

SAR TEST REPORT

Applicant TCL Communication Ltd.

FCC ID 2ACCJB229

Product Tablet PC

Brand TCL

Model 9185W

Report No. EFTA25040270-IE-01-S1

Issue Date April 30, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528-2013, ANSI C95.1: 1992, IEEE C95.1: 1991**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

Table 1: Highest Reported SAR

Mode	Highest Reported SAR (W/kg)
	1g Body SAR (Separation 0mm)
GSM 850	1.23
GSM 1900	1.17
WCDMA Band II	1.28
WCDMA Band IV	0.98
WCDMA Band V	1.04
LTE Band 2/25	1.28
LTE Band 5	0.97
LTE Band 7	1.29
LTE Band 12	1.19
LTE Band 26	1.08
LTE Band 41/38	1.17
LTE Band 4/66	1.11
LTE Band 71	0.80
NR Band n25	1.15
NR Band n41	0.89
NR Band n66	1.27
NR Band n71	0.59
Wi-Fi (2.4GHz)	1.25
Wi-Fi (5GHz)	1.19
Bluetooth	0.39
Date of Testing: (Original) February 13, 2025 ~ March 5, 2025 (Variant) April 25, 2025 Date of Sample Received: (Original) January 24, 2025 (Variant) April 21, 2025	
Note: 1. The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg) specified in ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures	

- specified in IEEE 1528-2013.
2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

Note:

- 1) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):

SAR for LTE Band 2 (Frequency range: 1850 ~ 1910 MHz) is covered by LTE Band 25 (Frequency range 1850 ~ 1915 MHz); SAR for LTE Band 4 (Frequency range 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz); SAR for LTE Band 38 (Frequency range: 2570 ~ 2620 MHz) is covered by LTE Band 41 (Frequency range 2496 ~ 2690 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

Table 2: Highest Simultaneous Transmission SAR

Exposure Configuration	Position	1g Body SAR (Separation 0mm)
Highest Simultaneous Transmission SAR (W/kg)	Back Side (NR n71 + Wi-Fi 2.4GHz + Bluetooth)	1.56
Note: The detail for simultaneous transmission consideration is described in chapter 10.2.		

9185W (Report No.: EFTA25040270-IE-01-S1) is a variant model of 9185W (Report No.: EFTA25010145-IE-01-S1).

The differences are show in the below:

HARDWARE MODIFICATIONS:

- PCB layout/material changes: **the supplier of PCB changes**
- Memory/TP/LCD/ Camera/SIM changes: **The suppliers of memory , LCD and Camera are new**
- Other changes detailed: **The suppliers of speaker , FPC, Thermistor, charger ic, TVS and power inductor are new**

MECHANICAL MODIFICATIONS:

- Use new metal front/back cover or keypad: **no new metal, but the supplier changes**

Accessory changes:

- Use new charger/battery/headset/USB cable: **the supplier of USB cable is new**

Tested bands refer to the following table.

Band	Original	Variant
GSM 850	Pass	Only tested with worst case of Original
GSM 1900	Pass	
WCDMA Band II	Pass	
WCDMA Band IV	Pass	
WCDMA Band V	Pass	
LTE Band 2/25	Pass	
LTE Band 5	Pass	
LTE Band 7	Pass	
LTE Band 12	Pass	
LTE Band 26	Pass	
LTE Band 41/38	Pass	
LTE Band 4/66	Pass	
LTE Band 71	Pass	
NR Band n25	Pass	
NR Band n41	Pass	
NR Band n66	Pass	
NR Band n71	Pass	
Wi-Fi (2.4GHz)	Pass	
Wi-Fi (5GHz)	Pass	
Bluetooth	Pass	

The detailed product change description please refers to the *Difference Declaration Letter*.

3 Description of Equipment Under Test

Client Information

Applicant	TCL Communication Ltd.
Applicant address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, shatin, NT, Hong Kong
Manufacturer	TCL Communication Ltd.
Manufacturer address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, shatin, NT, Hong Kong

General Technologies

EUT Stage	Identical Prototype
Model	9185W
IMEI	016645000021364
Hardware Version	05
Software Version	4J3M
Antenna Type	Internal Antenna
Power Class	GSM 850: 4 GSM 1900: 1 WCDMA Band II/IV/V: 3 LTE 2/4/5/7/12/25/26/38/41/66/71: 3 NR n25/n66/n71: 3 LTE 41: 2 NR n41: 2
Power Level	GSM 850: level 5 GSM 1900: level 0 WCDMA Band II/IV/V: all up bits LTE 2/4/5/7/12/25/26/38/41/66/71: max power NR n25/n41/n66/n71: max power
EUT Accessory	
Battery	Manufacturer: Veken Model: TLp058C7
Data Cable	Manufacturer: PUAN Model: CDA0000296C8
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)	Rx (MHz)
GSM	850	GPRS(GMSK) EGPRS(GMSK,8PSK)	☐ Multi-slot Class:8-1UP ☐ Multi-slot Class:10-2UP	824 ~ 849	869 ~ 894
	1900		☒ Multi-slot Class:12-4UP ☐ Multi-slot Class:33-4UP	1850 ~ 1910	1930 ~ 1990
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No				
WCDMA	Band II	QPSK, 16QAM	DL Category: 24 UL Category: 7	1850 ~ 1910	1930 ~ 1990
	Band IV			1710 ~ 1755	2110 ~ 2155
	Band V			824 ~ 849	869 ~ 894
LTE	FDD 2	QPSK, 16QAM, 64QAM, 256QAM	Rel.15 /Category 6	1850 ~ 1910	1930 ~ 1990
	FDD 4			1710 ~ 1755	2110 ~ 2155
	FDD 5			824 ~ 849	869 ~ 894
	FDD 7			2500 ~ 2570	2620 ~ 2690
	FDD 12			699 ~ 716	729 ~ 746
	FDD 25			1850 ~ 1915	1930 ~ 1995
	FDD 26			814 ~ 849	859 ~ 894
	TDD 38			2570 ~ 2620	2570 ~ 2620
	TDD 41			2496 ~ 2690	2496 ~ 2690
	FDD 66			1710 ~ 1780	2110 ~ 2180
	FDD 71			663 ~ 698	617 ~ 652
	Does this device support Carrier Aggregation (CA) ☒ Yes downlink only ☐ No				
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No				
NR	n25	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	Rel. 16	1850 ~ 1915	1930 ~ 1995
	n41			2496 ~ 2690	2496 ~ 2690
	n66			1710 ~ 1780	2110 ~ 2180
	n71			663 ~ 698	617 ~ 652
Bluetooth	2.4GHz	Version 5.2 BR/EDR + LE		2402 ~2480	2402 ~2480
Wi-Fi	2.4GHz	DSSS, OFDM	802.11b/g/n HT20	2412 ~ 2462	2412 ~ 2462
		OFDM	802.11n HT40	2422 ~ 2452	2422 ~ 2452
	5GHz	OFDM	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80	5150 ~ 5250	5150 ~ 5250
				5250 ~ 5350	5250 ~ 5350
				5470 ~ 5725	5470 ~ 5725
Does this device support MIMO ☐ Yes ☒ No					

4 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528- 2013, ANSI C95.1: 1992, IEEE C95.1: 1991, the following FCC Published RF exposure KDB procedures:

KDB 248227 D01 802.11Wi-Fi SAR v02r02
KDB 447498 D01 General RF Exposure Guidance v06
KDB 690783 D01 SAR Listings on Grants v01r03
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05
KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 616217 D04 SAR for laptop and tablets v01r02

5 Operational Conditions during Test

5.1 Test Positions

According to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

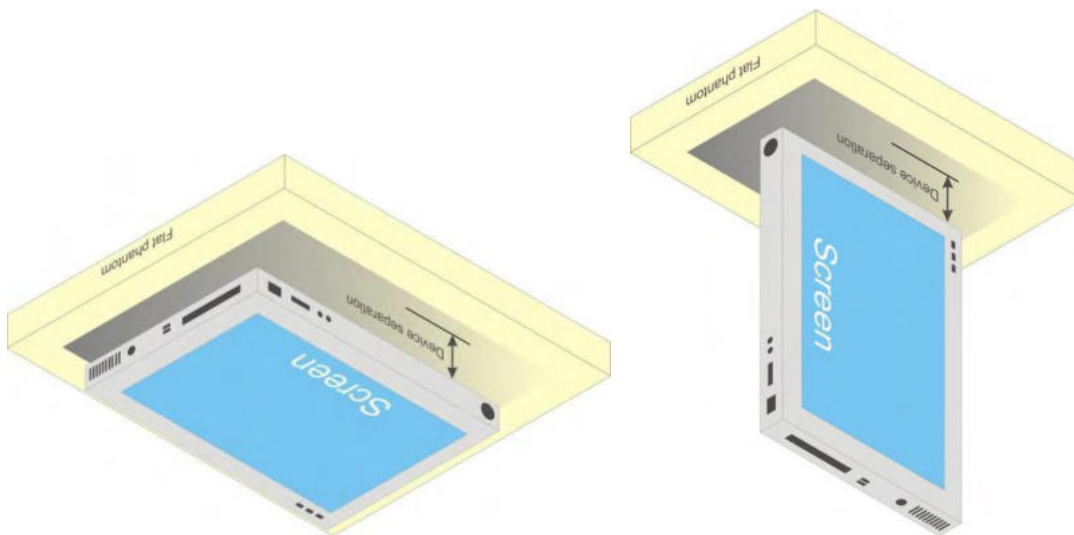


Fig-4.1 Illustration for Tablet Setup

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

(1) The SAR exclusion threshold for distances $\leq 50\text{mm}$ is defined by the following equation:

$$\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} * \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

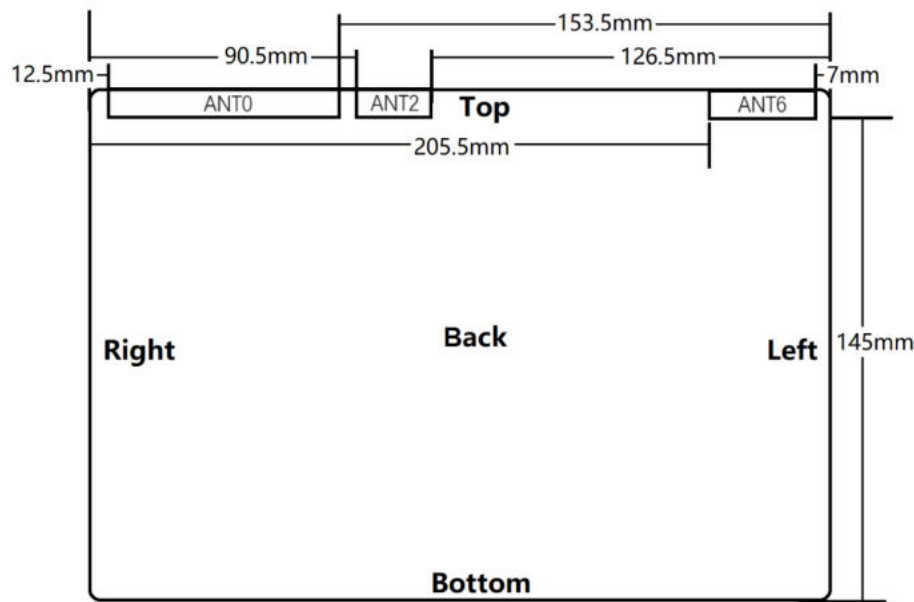
(2) The SAR exclusion threshold for distances $> 50\text{mm}$ is defined by the following equation, as illustrated in KDB 447498 D01 Appendix B:

a) at 100 MHz to 1500 MHz

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f_{\text{(MHz)}}/150)] \text{ mW}$$

b) at $> 1500 \text{ MHz}$ and $\leq 6 \text{ GHz}$

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$$



ANT0: GSM 850/1900

WCDMA 2/4/5

LTE 2/4/5/12/25/26/66/71

NR n25/n66/n71

ANT2: LTE 7/38/41/NR n41

ANT6: Wi-Fi 2.4G/5G/Bluetooth

Band	Ant	Frequency (MHz)	Max. Tune-up Power (dBm)	Back Side			Left Edge			Right Edge			Top Edge			Bottom Edge		
				Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion	Ant. To Surgace (mm)	Evaluation	Conclusion
GSM 850	ANT0	824	33.00	0	362.24	Yes	153.5	604.78	Yes	12.5	144.90	Yes	0	362.24	Yes	145	558.09	Yes
GSM 1900	ANT0	1850	30.00	0	272.03	Yes	153.5	1062.20	No	12.5	108.81	Yes	0	272.03	Yes	145	977.20	Yes
WCDMA II	ANT0	1850	24.00	0	68.33	Yes	153.5	1041.83	No	12.5	27.33	Yes	0	68.33	Yes	145	956.83	No
WCDMA IV	ANT0	1710	24.00	0	65.69	Yes	153.5	1041.57	No	12.5	26.28	Yes	0	65.69	Yes	145	956.57	No
WCDMA V	ANT0	824	24.00	0	45.60	Yes	153.5	573.12	No	12.5	18.24	Yes	0	45.60	Yes	145	526.43	No
LTE 2	ANT0	1850	24.00	0	68.33	Yes	153.5	1041.83	No	12.5	27.33	Yes	0	68.33	Yes	145	956.83	No
LTE 4	ANT0	1710	24.00	0	65.69	Yes	153.5	1041.57	No	12.5	26.28	Yes	0	65.69	Yes	145	956.57	No
LTE 5	ANT0	824	24.00	0	45.60	Yes	153.5	573.12	No	12.5	18.24	Yes	0	45.60	Yes	145	526.43	No
LTE 7	ANT2	2500	24.00	0	79.43	Yes	126.5	772.94	No	90.5	412.94	No	0	79.43	Yes	145	957.94	No
LTE 12	ANT0	699	24.00	0	42.00	Yes	153.5	486.51	No	12.5	16.80	Yes	0	42.00	Yes	145	446.90	No
LTE 25	ANT0	1850	24.00	0	68.33	Yes	153.5	1041.83	No	12.5	27.33	Yes	0	68.33	Yes	145	956.83	No
LTE 26	ANT0	814	24.00	0	45.33	Yes	153.5	566.19	No	12.5	18.13	Yes	0	45.33	Yes	145	520.07	No
LTE 38	ANT2	2570	24.00	0	80.54	Yes	126.5	773.05	No	90.5	413.05	No	0	80.54	Yes	145	958.05	No
LTE 41 PC3	ANT2	2496	24.00	0	79.37	Yes	126.5	772.94	No	90.5	412.94	No	0	79.37	Yes	145	957.94	No
LTE 41 PC2	ANT2	2496	26.50	0	141.14	Yes	126.5	779.11	No	90.5	419.11	Yes	0	141.14	Yes	145	964.11	No
LTE 66	ANT0	1710	24.00	0	65.69	Yes	153.5	1041.57	No	12.5	26.28	Yes	0	65.69	Yes	145	956.57	No
LTE 71	ANT0	663	24.00	0	40.91	Yes	153.5	461.56	No	12.5	16.36	Yes	0	40.91	Yes	145	423.99	No
NR n25	ANT0	1850	24.00	0	68.33	Yes	153.5	1041.83	No	12.5	27.33	Yes	0	68.33	Yes	145	956.83	No
NR n41 PC2	ANT2	2496	26.50	0	141.14	Yes	126.5	779.11	No	90.5	419.11	Yes	0	141.14	Yes	145	964.11	No
NR n66	ANT0	1710	24.00	0	65.69	Yes	153.5	1041.57	No	12.5	26.28	Yes	0	65.69	Yes	145	956.57	No
NR n71	ANT0	663	24.00	0	40.91	Yes	153.5	461.56	No	12.5	16.36	Yes	0	40.91	Yes	145	423.99	No
Wi-Fi 2.4GHz	ANT6	2412	19.50	0	27.68	Yes	7	19.77	Yes	205.5	1557.77	No	0	27.68	Yes	145	952.77	No
Wi-Fi 5GHz	ANT6	5150	19.00	0	36.05	Yes	7	25.75	Yes	205.5	1558.61	No	0	36.05	Yes	145	953.61	No
Bluetooth	ANT6	2402	8.50	0	2.19	No	7	1.57	No	205.5	1555.22	No	0	2.19	No	145	950.22	No

5.2 Measurement Variability

Per FCC KDB Publication 865664 D01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

5.3 Test Configuration

5.2.1 GSM Test Configuration

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Output power of reductions:

Table 3: The allowed power reduction in the multi-slot configuration

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power (dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

5.2.2 WCDMA Test Configuration

5.2.2.1 3G SAR Test Reduction Procedure

The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations modes according to output power, exposure conditions and device operating capabilities. Maximum output power is verified by applying the applicable versions of 3GPP TS 34.121.

5.2.2.2 Body-worn Accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the EUT with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR

configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the EUT, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC

5.2.2.3 Release 5 HSDPA Test Configuration

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the “Release 5 HSDPA Data Devices” section of this document, for the highest SAR body-worn accessory exposure configuration in 12.2 kbps RMC. EUT with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 4: Subtests for WCDMA Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.
Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

5.2.2.4 Release 6 HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the “Release 6 HSPA Data Devices” section of this document, for the highest body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA

configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the 'WCDMA EUT' and 'Release 5 HSDPA Data Devices' sections of this document

Table 5: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Figure 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

Table 6: HSUPA UE Category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCHTTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	11484	5.76
	4	4	10		20000	2.00
7 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	22996	?

	4	4	10		20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)						

5.2.2.5 HSPA, HSPA+ and DC-HSDPA Test Configuration

SAR test exclusion may apply to 3GPP Rel. 6 HSPA and Rel. 8 DC-HSDPA. When SAR measurement is required for HSPA or DC-HSDPA, a KDB inquiry is required to confirm that the wireless mode configurations in the test setup have remained stable throughout the SAR measurements. Without prior KDB confirmation to determine the SAR results are acceptable, a PAG is required for equipment approval.

SAR test exclusion for HSPA, HSPA+ and DC-HSDPA is determined according to the following:

- 1) The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required sub-test mode(s) to determine SAR test exclusion.
- 2) SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.
- 3) SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.
- 4) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA, HSPA+ or DC-HSDPA:
 - a) The output power measurement results and applicable release version(s) of 3GPP TS 34.121. Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.
 - b) The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified according to the Cubic Metric (CM) measured by the device, which must be taken into consideration.
 - c) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GPP TS 34.121 for the power measurements, and HSPA/HSPA+ channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCl and AG index values.
- 5) When SAR measurement is required, the test configurations, procedures and power measurement results must be clearly described to confirm that the required test parameters are used, including E-TFCl and AG index stability and output power conditions.

Table 7: HS-DSCH UE Category

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS-DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulations with MIMO operation and without dual cell operation	Supported modulations with dual cell operation
Category 1	5	3	7298	19200	QPSK, 16QAM	Not applicable (MIMO not supported)	Not applicable (dual cell operation not supported)
Category 2	5	3	7298	28800			
Category 3	5	2	7298	28800			
Category 4	5	2	7298	38400			
Category 5	5	1	7298	57600			
Category 6	5	1	7298	67200			
Category 7	10	1	14411	115200			
Category 8	10	1	14411	134400			
Category 9	15	1	20251	172800			
Category 10	15	1	27952	172800			
Category 11	5	2	3630	14400	QPSK		
Category 12	5	1	3630	28800			
Category 13	15	1	35280	259200	QPSK, 16QAM, 64QAM		
Category 14	15	1	42192	259200			
Category 15	15	1	23370	345600	QPSK, 16QAM		
Category 16	15	1	27952	345600	QPSK, 16QAM		
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM	–	
			23370	345600	–	QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM	–	
			27952	345600	–	QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		
Category 20	15	1	42192	518400	QPSK, 16QAM, 64QAM		
Category 21	15	1	23370	345600	-	-	QPSK, 16QAM
Category 22	15	1	27952	345600			QPSK, 16QAM, 64QAM
Category 23	15	1	35280	518400			QPSK, 16QAM, 64QAM
Category 24	15	1	42192	518400			QPSK, 16QAM, 64QAM

5.2.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest Channel Bandwidth Standalone SAR Test Requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other Channel Bandwidth Standalone SAR Test Requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

5.2.4 Additional Requirements for TDD LTE Specification

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table: Uplink-downlink configurations for uplink-downlink configurations and Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS) for Special subframe configurations.

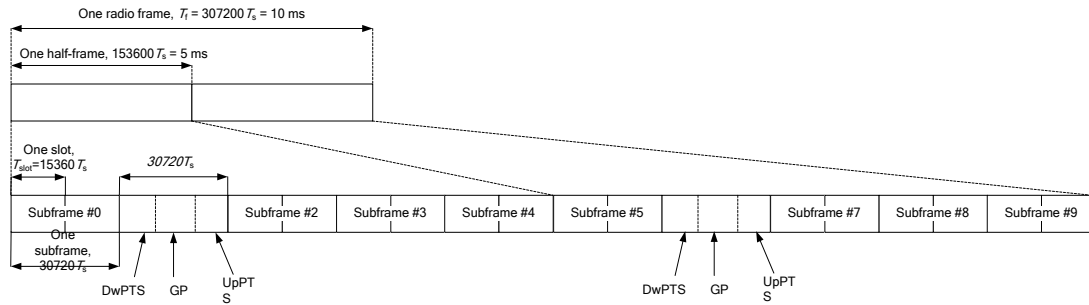


Figure 1: Frame structure type 2

Table 8: Configuration of Special Subframe (Lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 9: Uplink-Downlink Configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to Figure 1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below.

The count of Uplink subframes are according to Table: Uplink-downlink configurations:

$$\text{Duty cycle} = (30720T_s \cdot \text{Ups} + \text{Uplink Component} \cdot \text{Specials}) / (307200T_s)$$

About the uplink component of Special subframes, we can figure out by Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS):

$$\text{Uplink Component} = \text{UpPTS}$$

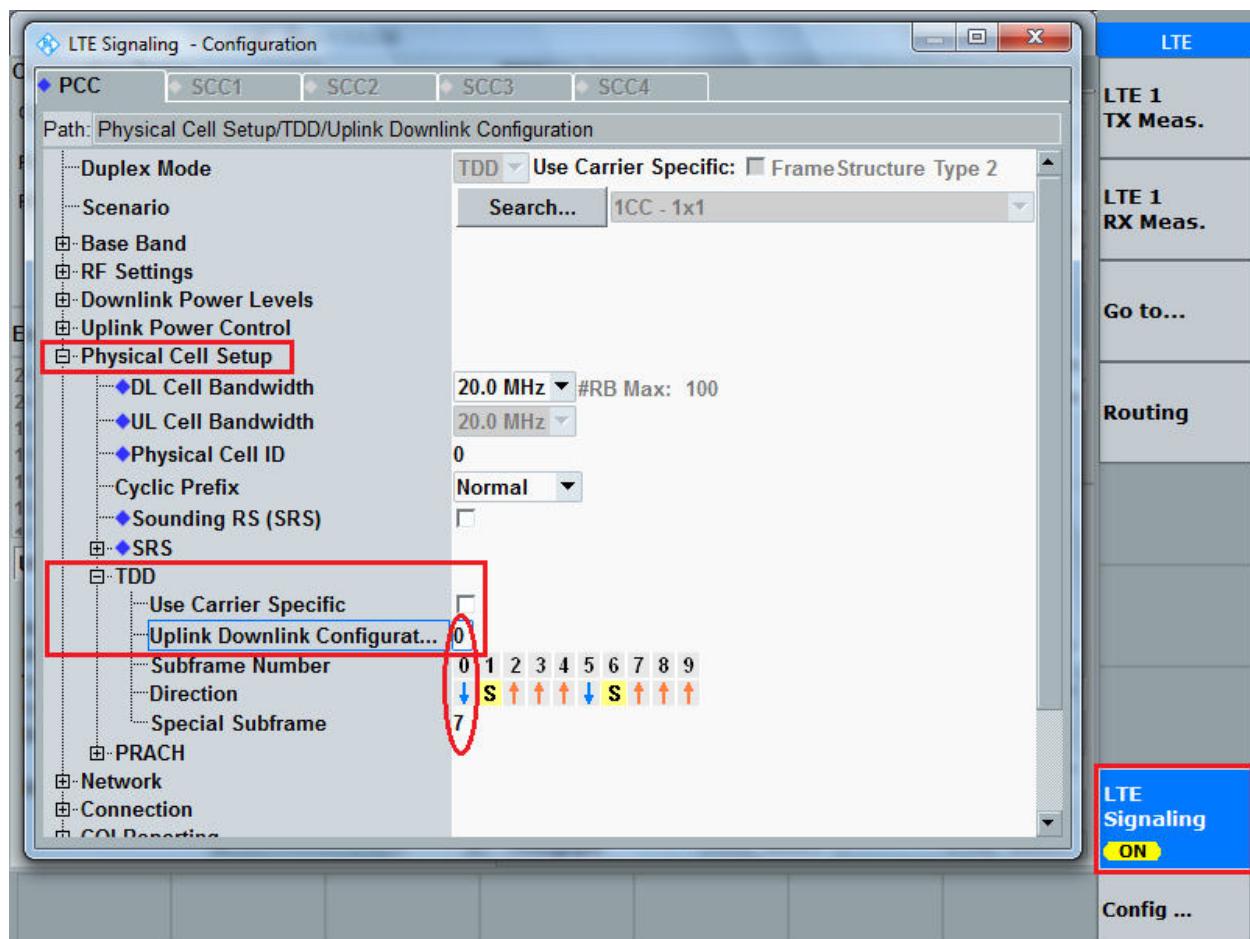
In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720\text{Ts} * \text{Ups}) + \text{UpPTS} * \text{Specials}] / (30720\text{Ts})$$

And we can get different Duty cycles under different configurations:

Uplink-downlink configuration	Subframe number			Configuration of special subframe							
				Normal cyclic prefix in downlink				Extended cyclic prefix in downlink			
				Normal cyclic prefix in uplink		Extended cyclic prefix in uplink		Normal cyclic prefix in uplink		Extended cyclic prefix in uplink	
	D	S	U	configuration 0~4	configuration 5~9	configuration 0~4	configuration 5~9	configuration 0~3	configuration 4~7	configuration 0~3	configuration 4~7
0	2	2	6	61.43%	62.85%	61.67%	63.33%	61.43%	62.85%	61.67%	63.33%
1	4	2	4	41.43%	42.85%	41.67%	43.33%	41.43%	42.85%	41.67%	43.33%
2	6	2	2	21.43%	22.85%	21.67%	23.33%	21.43%	22.85%	21.67%	23.33%
3	6	1	3	30.71%	31.43%	30.83%	31.67%	30.71%	31.43%	30.83%	31.67%
4	7	1	2	20.71%	21.43%	20.83%	21.67%	20.71%	21.43%	20.83%	21.67%
5	8	1	1	10.71%	11.43%	10.83%	11.67%	10.71%	11.43%	10.83%	11.67%
6	3	2	5	51.43%	52.85%	51.67%	53.33%	51.43%	52.85%	51.67%	53.33%

SAR test Plan: For TDD LTE, SAR should be tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7 for Frame structure type



5.2.5 5G NR Test Configuration

For 5G NR SAR testing, due to test setup limitations, SAR testing for NR was performed using factory test mode software to establish the connection and perform SAR with 100% transmission.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation and QPSK was observed as the worst one and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, 64QAM, 256QAM, and BPSK, modulations.

5.2.6 Wi-Fi Test Configuration

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; These are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the *initial test position(s)* by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The *initial test position(s)* is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the *reported SAR* for the *initial test position* is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the *initial test position* to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the *reported SAR* is ≤ 0.8 W/kg or all required test positions are tested.
 - ✧ For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - ✧ When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the *initial test position* and subsequent test positions, when the *reported SAR* is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the *reported SAR* is ≤ 1.2 W/kg or all required test channels are considered.
 - ✧ The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

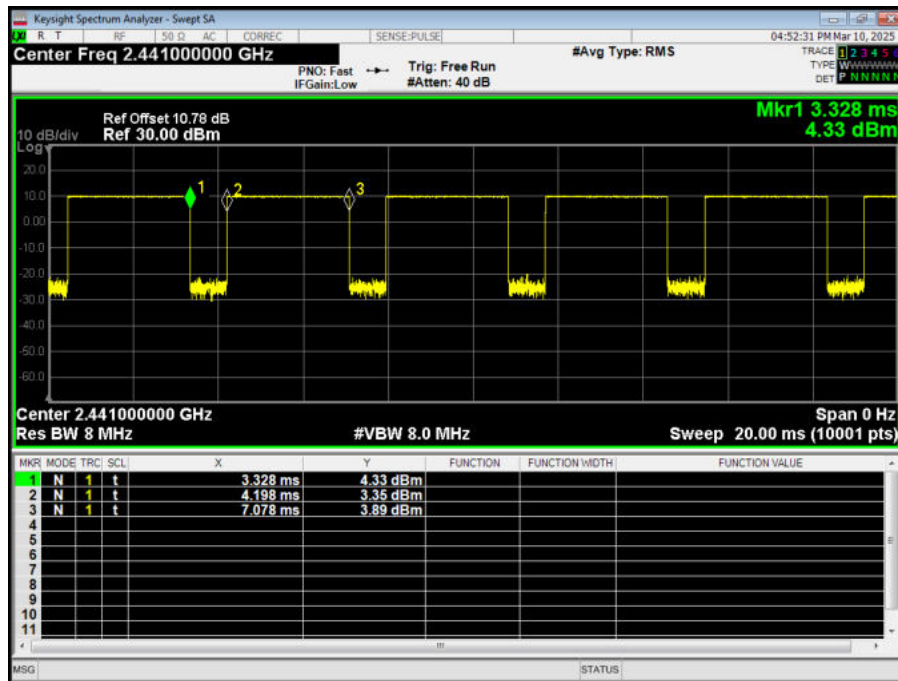
To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

5.2.7 Bluetooth Test Configuration

For Bluetooth SAR testing, Bluetooth engineering testing software installed on the EUT can provide continuous transmitting RF signal with maximum output power. And the CBT control the EUT operating with hopping off and data rate set for DH5.

The SAR measurement takes full account of the Bluetooth duty cycle and is reflected in the report, and the duty factor of the device is as follow:



Note: Duty factor= Ton (ms)/ T(on+off) (ms)=2.880/3.750*100%=76.8%

5.2.8 Downlink LTE CA specification

The device supports LTE advanced Rel. 15, Carrier Aggregation (CA) is supported for Intra band and Inter-band, more details information is provided in tables below:

1) DL CA Intra band contiguous

E-UTRA CA configuration / Bandwidth combination set								
E-UTRA CA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_2C	-	5	20				40	0
		10	15, 20					
		15	10, 15, 20					
		20	5, 10, 15, 20					
CA_41C	-	10	20				40	0
		15	15, 20					
		20	10, 15, 20					

		5, 10	20				40	1
		15	15, 20					
		20	5, 10, 15, 20					
		10	15, 20				40	2
		15	10, 15, 20					
		20	10, 15, 20					
		10	20				40	3
		20	20					
CA_66B	-	5	5, 10, 15				20	0
		10	5, 10					
		15	5					
CA_66C	-	5	20				40	0
		10	15, 20					
		15	10, 15, 20					
		20	5, 10, 15, 20					

NOTE 1: The CA configuration refers to an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 3: Restricted to E-UTRA operation when inter-band carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

CA configuration	SCS (PCC/SCC) (kHz)	Aggregated channel bandwidth (PCC+SCC)	UL PCC allocation (LCRB)	SCC ΔR_{IBC} (dB)	Duplex mode
CA_n71B ¹	15/15	30MHz + 5MHz	20 (RB _{START} = 0)	3.8	FDD

NOTE 1: Applicable only to BCS 4 and 5 and for UEs supporting the optional symmetrical UL/DL channel bandwidths.

2) DL CA Intra band non-contiguous

E-UTRA CA configuration / Bandwidth combination set								
E-UTRACA configuration	Uplink CA configurations	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_2A-2A	-	5, 10, 15, 20	5, 10, 15, 20				40	0
CA_4A-4A	-	5, 10, 15, 20	5, 10, 15, 20				40	0
CA_25A-25A	-	5, 10	5, 10				20	0
		5, 10, 15, 20	5, 10, 15, 20				40	1
CA_41A-41A	-	10, 15, 20	10, 15, 20				40	0
		5, 10, 15, 20	5, 10, 15, 20				40	1

CA_66A-66A	-	5, 10, 15, 20	5, 10, 15, 20				40	0
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NOTE 1: Uplink CA configurations are the configurations supported by the present release of specifications.

NOTE 2: Restricted to E-UTRA operation when inter-band carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

3) DL CA Inter-band

E-UTRA CA configuration / Bandwidth combination set										
E-UTRA CA Configuration	Uplink CA configurations	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A	-	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
		4			Yes	Yes	Yes	Yes		
		2			Yes	Yes			20	1
		4			Yes	Yes				
		2			Yes	Yes	Yes	Yes	40	2
		4			Yes	Yes	Yes	Yes		
CA_2A-5A	-	2			Yes	Yes	Yes	Yes	30	0
		5			Yes	Yes				
		2			Yes	Yes			20	1
		5			Yes	Yes				
CA_2A-12A	-	2			Yes	Yes	Yes	Yes	30	0
		12			Yes	Yes				
		2			Yes	Yes	Yes	Yes	30	1
		12		Yes	Yes	Yes				
		2			Yes	Yes			20	2
		12			Yes	Yes				
CA_2A-66A	-	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
		66			Yes	Yes	Yes	Yes		
		2			Yes	Yes			20	1
		66			Yes	Yes				
		2			Yes	Yes	Yes	Yes	40	2
		66			Yes	Yes	Yes	Yes		
CA_2A-71A	-	2			Yes	Yes	Yes	Yes	40	0
		71			Yes	Yes	Yes	Yes		
		2			Yes	Yes			20	1
		71			Yes	Yes				
CA_4A-5A	-	4			Yes	Yes			20	0
		5			Yes	Yes				
		4			Yes	Yes	Yes	Yes	30	1
		5			Yes	Yes				
CA_4A-12A	-	4	Yes	Yes	Yes	Yes			20	0

		12			Yes	Yes			30	1
		4	Yes	Yes	Yes	Yes	Yes	Yes		
		12			Yes	Yes				
		4			Yes	Yes	Yes	Yes	30	2
		12		Yes	Yes	Yes				
		4			Yes	Yes			20	3
		12			Yes	Yes				
		4			Yes	Yes	Yes	Yes	30	4
		12			Yes	Yes				
		4			Yes	Yes	Yes		20	5
		12			Yes					
CA_4A-71A	-	4			Yes	Yes	Yes	Yes	40	0
		71			Yes	Yes	Yes	Yes		
CA_5A-66A	-	5			Yes	Yes			30	0
		66			Yes	Yes	Yes	Yes		
CA_12A-66A	-	12			Yes	Yes			20	0
		66	Yes	Yes	Yes	Yes				
		12			Yes	Yes			30	1
		66	Yes	Yes	Yes	Yes	Yes	Yes		
		12		Yes	Yes	Yes			30	2
		66			Yes	Yes	Yes	Yes		
		12			Yes	Yes			20	3
		66			Yes	Yes				
		12			Yes	Yes			30	4
		66			Yes	Yes	Yes	Yes		
		12			Yes				20	5
		66			Yes	Yes	Yes			
CA_66A-71A	-	66			Yes	Yes	Yes	Yes	40	0
		71			Yes	Yes	Yes	Yes		

NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.

NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 4: Uplink CA configurations are the configurations supported by the present release of specifications.

NOTE 5: For TDD inter-band Carrier Aggregation only non-simultaneous Rx/Tx uplink CA configurations can be supported by UE supporting corresponding DL CA configuration without simultaneous Rx/Tx.

NOTE 6: Void

NOTE 7: Power imbalance between downlink carriers on Band 20 and Band 28 is assumed to be within [6dB].

NOTE 8: For the corresponding CA configuration, UE may not support Pcell transmissions in this E-UTRA band

For downlink carrier aggregation, SAR is not required for downlink carrier aggregation in active uplink maximum output power not more than 1/4dB higher than the maximum output power measured when downlink carrier aggregation inactive.

5.2.9 Proximity Sensor Power Reduction Description

Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of Antenna Main and Antenna WIFI to ensure SAR compliance. It is also set an output power leveled to the lowest one to make sure that in any case of SAR sensor hardware failure, the SAR requirements can still be satisfied.

The following tables summarize the key power reduction information for proximity sensor. The test procedures be applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

Antenna Main				
Band	Test position	Sensor Trigger Distance range (DUT to Phantom)	Power reduction amount(dB)	Power level
GSM 850	Back side	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
GSM 1900	Back side	0mm≤distance≤25mm	5	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	5	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA Band II	Back side	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off

WCDMA Band IV	Back side	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WCDMA Band V	Back side	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 2	Back side	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 4	Back side	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 5	Back side	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 7	Back side	0mm≤distance≤12mm	10	Sensor on
		12mm<distance	0	Sensor off
	Front side	/	0	Sensor off

	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤12mm	10	Sensor on
		12mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 12	Back side	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	2	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 25	Back side	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 26	Back side	0mm≤distance≤25mm	5	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	5	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 38	Back side	0mm≤distance≤12mm	9	Sensor on
		12mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤12mm	9	Sensor on
		12mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 41 PC2	Back side	0mm≤distance≤12mm	6.5	Sensor on
		12mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤12mm	6.5	Sensor on
		12mm<distance	0	Sensor off

		12mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 41 PC3	Back side	0mm≤distance≤12mm	8	Sensor on
		12mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤12mm	8	Sensor on
		12mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 66	Back side	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
LTE 71	Back side	0mm≤distance≤25mm	3.5	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	3.5	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
n 25	Back side	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	10	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
n 41 PC2	Back side	0mm≤distance≤12mm	8	Sensor on
		12mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤12mm	8	Sensor on
		12mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
n 66	Back side	0mm≤distance≤25mm	8	Sensor on

		25mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤25mm	8	Sensor on
		25mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
Antenna WIFI				
Band	Test position	Sensor Trigger Distance range (DUT to Phantom)	Power reduction amount(dB)	Power level
WIFI 2.4G	Back side	0mm≤distance≤15mm	6	Sensor on
		15mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤14mm	6	Sensor on
		14mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off
WIFI 5G	Back side	0mm≤distance≤15mm	6	Sensor on
		15mm<distance	0	Sensor off
	Front side	/	0	Sensor off
	Left edge	/	0	Sensor off
	Right edge	/	0	Sensor off
	Top edge	0mm≤distance≤14mm	6	Sensor on
		14mm<distance	0	Sensor off
	Bottom Edge	/	0	Sensor off

Note:

To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering and sensor coverage for normal and tit positions for all usage conditions and applicable sides, minus 1 mm, must be used as the test separation distance for additional SAR testing of each higher power stage.

For the other sides or other frequency bands of the device, SAR is still tested at the sensor off.

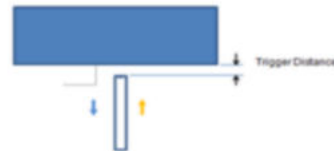
Procedures for determining proximity sensor triggering distances

The device was tested by the test lab to determine the proximity sensor triggering distances for the back side, top side and bottom edge of the device. To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering minus 1 mm, must be used as the test separation distance for SAR testing.

The Proximity sensor triggering distance measurement method are as below:



Picture : Proximity sensor triggering distances assessment (Back side)



Picture : Proximity sensor triggering distances assessment (Top edge)

Table: Summary of Trigger Distances :

Band	Trigger distance- Back Side		Trigger distance- Top Edge	
	Moving toward Phantom	Moving away from Phantom	Moving toward Phantom	Moving away from Phantom
GSM 850	25	25	25	25
GSM 1900	25	25	25	25
WCDMA B2	25	25	25	25
WCDMA B4	25	25	25	25
WCDMA B5	25	25	25	25
LTE B2	25	25	25	25
LTE B4	25	25	25	25
LTE B5	25	25	25	25
LTE B7	12	12	12	12
LTE B12	25	25	25	25
LTE B25	25	25	25	25
LTE B26	25	25	25	25
LTE B38	12	12	12	12
LTE B41	12	12	12	12
LTE B66	25	25	25	25
LTE B71	25	25	25	25
n 25	25	25	25	25
n 41	12	12	12	12
n 66	25	25	25	25
WIFI 2.4G	15	15	14	14
WIFI 5G	15	15	14	14

Table: Power Reduction Status (Moving toward phantom)

Procedures for determining device tilt angle influences to proximity sensor triggering

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Top Edge parallel to the base of the flat phantom for each band.

The EUT was rotated about and Top Edge for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.

The proximity sensor triggering tilt angle measurement method are as below:

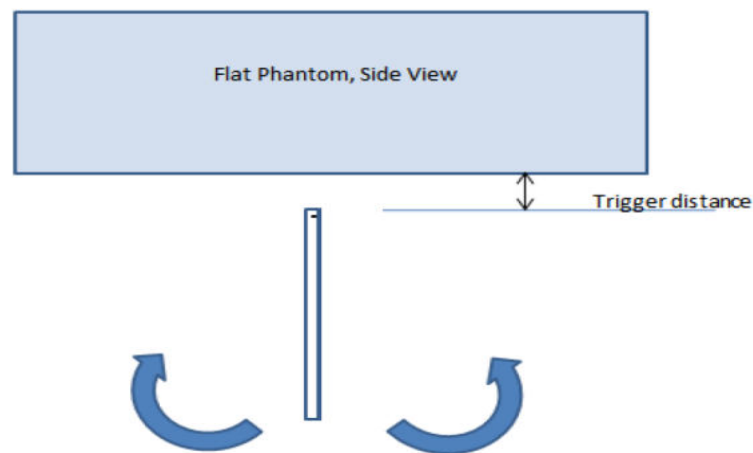


Table: Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering(Top edge)

Band(MHz)	Position	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status											
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
GSM 850	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
GSM 1900	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA B2	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA B4	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA B5	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B2	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B4	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B5	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B7	Top edge	12mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B12	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B25	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B26	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B38	Top edge	12mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B41	Top edge	12mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B66	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	
LTE B71	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on	

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n 25	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on
n 41	Top edge	12mm	on	on	on	on	on	on	on	on	on	on	on
n 66	Top edge	25mm	on	on	on	on	on	on	on	on	on	on	on
WIFI 2.4G	Top edge	14mm	on	on	on	on	on	on	on	on	on	on	on
WIFI 5G	Top edge	14mm	on	on	on	on	on	on	on	on	on	on	on

Conclusion: It can be ensured that the proximity sensor can be valid triggered for the DUT tilt coverage exposure condition.

5.2.10 SAR Detection Mechanism Specification

This device support the receiver and sensor detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios and provide enhanced user experience.

More details information followings:

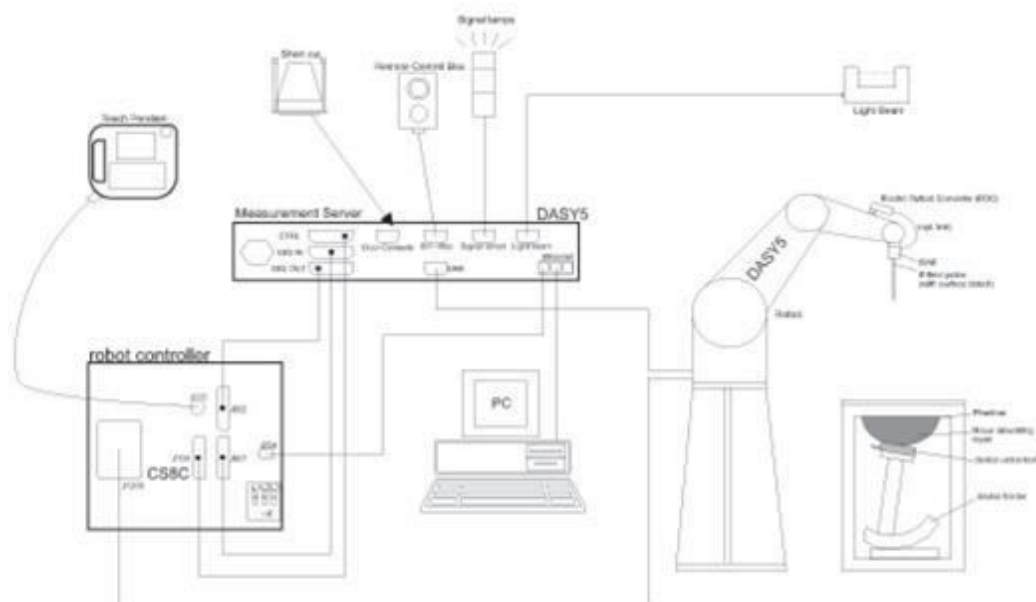
Main Antenna		Power Reduction Level Amount (dB)																				
Power Reduction Scenario	Sensor	GSM850	GSM1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B25	LTE B26	LTE B38	LTE B41 PC3	LTE B41 PC2	LTE B66	LTE B71	n25	n41 PC2	n66	n71
Full power	Full power	33.00	30.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	26.50	24.00	24.00	24.00	26.50	24.00	24.00
	Sensor on	2.00	5.00	10.00	10.00	2.00	10.00	10.00	2.00	10.00	2.00	10.00	5.00	6.50	6.50	8.00	10.00	3.50	8.00	8.00	10.00	0.00
Standalone	Sensor off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sensor on	2.00	5.00	10.00	10.00	2.00	10.00	10.00	2.00	12.00	2.00	10.00	5.00	9.00	8.00	10.00	10.00	3.50	8.00	8.00	10.00	0.00
Simultaneous	Wi-Fi on	2.00	5.00	10.00	10.00	2.00	10.00	10.00	2.00	12.00	2.00	10.00	5.00	9.00	8.00	10.00	10.00	3.50	8.00	8.00	10.00	0.00
	Sensor off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Wi-Fi Antenna		Power Reduction Level Amount (dB)									
Power Reduction Scenario	Sensor	WIFI 2.4G 11b	WIFI 2.4G 11g	WIFI 2.4G 11n HT20	WIFI 2.4G 11n HT40	WIFI 5G 11a	WIFI 5G 11n HT20	WIFI 5G 802.11ac-VHT20	WIFI 5G 802.11ac-VHT40	WIFI 5G 802.11ac-VHT80	
Full power	Full power	19.50	19.00	18.00	16.00	19.00	17.00	17.00	16.00	15.00	
	Sensor on	6.00	6.00	5.00	3.00	6.00	6.50	4.50	4.50	3.50	
Standalone	Sensor off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Sensor on	6.00	6.00	5.00	3.00	6.00	6.50	4.50	4.50	3.50	
Simultaneous	WWAN on	6.00	6.00	5.00	3.00	6.00	6.50	4.50	4.50	3.50	
	Sensor off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

6 SAR Measurements System Configuration

6.1 SAR Measurement Set-up

The DASY system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.2 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure Scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than ± 0.25 dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \Delta T / \Delta t$$

Where: Δt = Exposure time (30 seconds),
 C = Heat capacity of tissue (brain or muscle),
 ΔT = Temperature increase due to RF exposure.

Or

$$SAR = I E I^2 \sigma / \rho$$

Where: σ = Simulated tissue conductivity,
 ρ = Tissue density (kg/m³).

6.3 SAR Measurement Procedure

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

	≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤3GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{zoom}} \Delta y_{\text{zoom}}$			≤2GHz: ≤8mm 2 – 3GHz: ≤5mm*	3 – 4GHz: ≤5mm* 4 – 6GHz: ≤4mm*
Maximum zoom scan spatial resolution, normal to phantom surface	Uniform grid: $\Delta z_{\text{zoom}}(n)$		≤5mm	3 – 4GHz: ≤4mm 4 – 5GHz: ≤3mm 5 – 6GHz: ≤2mm
	Graded grid	$\Delta z_{\text{zoom}}(1)$: between 1 st two points closest to phantom surface	≤4mm	3 – 4GHz: ≤3mm 4 – 5GHz: ≤2.5mm 5 – 6GHz: ≤2mm
		$\Delta z_{\text{zoom}}(n > 1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{zoom}}(n-1)$	
Minimum zoom scan volume	X, y, z		≥30mm	3 – 4GHz: ≥28mm 4 – 5GHz: ≥25mm 5 – 6GHz: ≥22mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4\text{W/kg}$, $\leq 8\text{mm}$, $\leq 7\text{mm}$ and $\leq 5\text{mm}$ zoom scan resolution may be applied, respectively, for 2GHz to 3GHz, 3GHz to 4GHz and 4GHz to 6GHz.				

Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASYS measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

7 Main Test Equipment

Name of Equipment	Manufacturer	Type/Model	Serial Number	Software Version	Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	/	2024-05-07	2025-05-06
Dielectric Probe Kit	SPEAG	DAK-3.5	1332	/	2024-07-15	2025-07-14
Power Meter	Agilent	E4417A	GB41291714	/	2024-05-07	2025-05-06
Power Sensor	Agilent	N8481H	MY50350004	/	2024-05-07	2025-05-06
Power Sensor	Agilent	E9327A	US40441622	/	2024-05-07	2025-05-06
Signal Generator	KEYSIGHT	N5182B-X07	MY51350303	/	2024-12-02	2025-12-01
Dual Directional Coupler	UCL	UCL-DDC056G-S	20010600118	/	/	/
Amplifier	R&S	SCU18F	101022	/	2024-05-08	2025-05-07
Wireless Communication Tester	Anritsu	MT8820C	6201342015	/	2024-12-03	2025-12-02
Wireless Communication Tester	Agilent	E5515C	MY48360988	/	2024-12-03	2025-12-02
Wireless communication tester	Starpont	SP9500	20440	/	2024-05-07	2025-05-06
Wireless Communication Tester	Anritsu	MT8000A	6261844783	/	2024-05-07	2025-05-06
Wireless Communication Tester	R&S	CMW 500	146734	/	2024-05-07	2025-05-06
E-field Probe	SPEAG	EX3DV4	7689	/	2024-06-04	2025-06-03
DAE	SPEAG	DAE4	1317	/	2024-09-10	2025-09-09
Validation Kit 750MHz	SPEAG	D750V3	1045	/	2023-09-12	2026-09-11
Validation Kit 835MHz	SPEAG	D835V2	4d020	/	2023-09-15	2026-09-14
Validation Kit 1750MHz	SPEAG	D1750V2	1033	/	2023-03-23	2026-03-22
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	/	2023-09-12	2026-09-11
Validation Kit 2450MHz	SPEAG	D2450V2	786	/	2023-09-12	2026-09-11
Validation Kit 2600MHz	SPEAG	D2600V2	1025	/	2024-05-08	2027-05-07
Validation Kit 5GHz	SPEAG	D5GHzV2	1203	/	2022-12-09	2025-12-08
Software for Tissue	SPEAG	DAK 3.0.4.1	/	3.0.4.1	/	/
Temperature Probe	Auden	DTM3000	3905	/	2024-12-03	2025-12-02
Twin ELI Phantom	SPEAG	ELI v4.0	1179	/	/	/
Hygrothermograph	Anymetr	HTC - 1	TA2024A031	/	2024-05-06	2025-05-05
Test System	SPEAG	TX90 XLspeag	F08/5AH5A1/ A/01	52.10.4.15 27	/	/

8 Tissue Dielectric Parameter Measurements & System Check

8.1 Tissue Verification

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 24 hours of use; or earlier if the dielectric parameters can become out of tolerance.

Target values

Frequency (MHz)	ϵ_r	$\sigma(\text{s/m})$
750	42.0	0.90
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2450	39.2	1.80
2600	39.0	1.96
5250	35.9	4.71
5600	35.5	5.07
5750	35.4	5.22

Measurements results

Original

Frequency (MHz)	Test Date	Temp $^\circ\text{C}$	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within $\pm 5\%$)	
			ϵ_r	$\sigma(\text{s/m})$	ϵ_r	$\sigma(\text{s/m})$	Dev $\epsilon_r(\%)$	Dev $\sigma(\%)$
750	2/27/2025	21.5	42.3	0.88	42.0	0.90	0.71	-2.22
	2/26/2025	21.5	42.0	0.87	42.0	0.90	0.00	-3.33
835	2/13/2025	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
	2/24/2025	21.5	41.3	0.87	41.5	0.90	-0.48	-3.33
	2/28/2025	21.5	41.4	0.92	41.5	0.90	-0.24	2.22
1750	2/14/2025	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
	2/18/2025	21.5	40.1	1.34	40.1	1.37	0.00	-2.19
	2/21/2025	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
1900	2/15/2025	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	2/22/2025	21.5	40.2	1.43	40.0	1.40	0.50	2.14
	2/28/2025	21.5	40.0	1.40	40.0	1.40	0.00	0.00
2450	2/17/2025	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
2600	2/18/2025	21.5	38.2	2.01	39.0	1.96	-2.05	2.55

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	2/19/2025	21.5	38.4	1.94	39.0	1.96	-1.54	-1.02
	2/20/2025	21.5	38.3	1.99	39.0	1.96	-1.79	1.53
	3/5/2025	21.5	38.5	1.95	39.0	1.96	-1.28	-0.51
5250	2/19/2025	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
5600	2/17/2025	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
5750	2/19/2025	21.5	34.9	5.21	35.4	5.22	-1.41	-0.19
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm.								

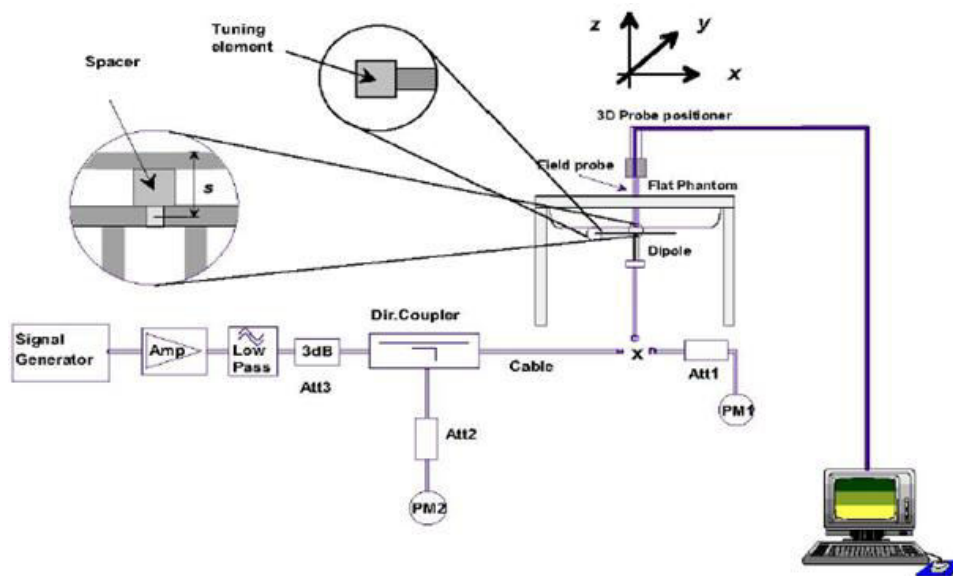
Variant

Frequency (MHz)	Test Date	Temp °C	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within $\pm 5\%$)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
1900	4/25/2025	21.5	40.5	1.34	40.0	1.40	1.25	-4.29

8.2 System Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured using the dielectric probe kit and the network analyzer. A system check measurement for every day was made following the determination of the dielectric parameters of the Tissue simulates, using the dipole validation kit. The dipole antenna was placed under the flat section of the twin SAM phantom.

System check is performed regularly on all frequency bands where tests are performed with the DASY system.



Picture 1 System Check setup



Picture 2 Setup Photo

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (>20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss (dB)	Δ %	Impedance (Ω)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D750V3 SN: 1045	Head Liquid	2023-09-12	30.4	/	51.9	/	-2.47	/
		2024-09-11	30.12	-0.9	52.3	0.4	-2.46	0.01
Dipole D835V2 SN: 4d020	Head Liquid	2023-09-15	28.3	/	50.6	/	-3.80	/
		2024-09-14	28.9	2.0	51.4	0.8	-3.66	0.14
Dipole D1750V2 SN: 1033	Head Liquid	2023-03-23	36.2	/	51.2	/	-0.98	/
		2024-03-22	35.4	-2.2	51.6	0.4	-1.28	-0.3
Dipole D1900V2 SN: 5d060	Head Liquid	2023-09-12	24.0	/	50.5	/	6.32	/
		2024-09-11	24.1	0.6	50.9	0.4	6.83	0.51
Dipole D2450V2 SN: 786	Head Liquid	2023-09-12	28.2	/	52.2	/	3.34	/
		2024-09-11	28.6	1.4	52.8	0.6	3.43	0.09
Dipole D5GHzV2 (5250 MHz) SN: 1203	Head Liquid	2022-12-09	29.0	/	48.5	/	-3.20	/
		2023-12-08	28.4	-2.1	48.4	-0.1	-3.4	-0.2
		2024-12-07	28.6	0.6	49.3	0.9	-3.37	0.03
Dipole D5GHzV2 (5600 MHz) SN: 1203	Head Liquid	2022-12-09	30.4	/	51.7	/	2.60	/
		2023-12-08	30.5	0.3	51.5	-0.2	2.4	-0.2
		2024-12-07	30.8	1.1	51.9	0.4	2.85	0.45
Dipole D5GHzV2 (5750 MHz) SN: 1203	Head Liquid	2022-12-09	25.3	/	53.6	/	4.30	/
		2023-12-08	25.7	1.6	53.1	-0.5	4.7	0.4
		2024-12-07	26.1	3.1	54.5	0.9	4.62	0.32

System Check Results

Original

Frequency (MHz)	Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	2/27/2025	21.5	2.13	8.52	8.47	0.59	1
	2/26/2025	21.5	2.10	8.40	8.47	-0.83	2
835	2/13/2025	21.5	2.44	9.76	9.75	0.10	3
	2/24/2025	21.5	2.46	9.84	9.75	0.92	4
	2/28/2025	21.5	2.43	9.72	9.75	-0.31	5
1750	2/14/2025	21.5	8.95	35.80	36.80	-2.72	6
	2/18/2025	21.5	9.11	36.44	36.80	-0.98	7
	2/21/2025	21.5	8.96	35.84	36.80	-2.61	8
1900	2/15/2025	21.5	9.88	39.52	40.40	-2.18	9
	2/22/2025	21.5	9.85	39.40	40.40	-2.48	10
	2/28/2025	21.5	9.55	38.20	40.40	-5.45	11
2450	2/17/2025	21.5	13.70	54.80	52.60	4.18	12
2600	2/18/2025	21.5	13.90	55.60	56.10	-0.89	13
	2/19/2025	21.5	13.88	55.52	56.10	-1.03	14
	2/20/2025	21.5	13.94	55.76	56.10	-0.61	15
	3/5/2025	21.5	13.90	55.60	56.10	-0.89	16
Frequency (MHz)	Test Date	Temp °C	100mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
5250	2/19/2025	21.5	7.87	78.70	77.70	1.29	17
5600	2/17/2025	21.5	7.67	76.70	80.30	-4.48	18
5750	2/19/2025	21.5	7.66	76.60	76.80	-0.26	19
Note: Target Values used derive from the calibration certificate data storage and evaluation.							

Variant

Frequency (MHz)	Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
1900	4/25/2025	21.5	9.60	38.40	40.40	-4.95	20

9 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

9.1 GSM Mode

GSM 850 Pmax&Sensor off --Main Ant0		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GPRS/ EGPRS (GMSK)	1 Tx Slot	33.00	31.91	31.98	32.28	9.03	23.97	22.88	22.95	23.25
	2 Tx Slots	32.00	31.28	31.32	31.60	6.02	25.98	25.26	25.30	25.58
	3 Tx Slots	30.50	29.60	29.64	30.05	4.26	26.24	25.34	25.38	25.79
	4 Tx Slots	29.50	28.42	28.44	28.86	3.01	26.49	25.41	25.43	25.85
EGPRS (8PSK)	1 Tx Slot	26.00	24.70	24.96	25.15	9.03	16.97	15.67	15.93	16.12
	2 Tx Slots	25.00	24.05	24.00	24.37	6.02	18.98	18.03	17.98	18.35
	3 Tx Slots	23.00	22.10	22.12	21.74	4.26	18.74	17.84	17.86	17.48
	4 Tx Slots	22.00	20.76	20.68	20.75	3.01	18.99	17.75	17.67	17.74
GSM 850 Sensor on--Main Ant0		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	128 /824.2	190 /836.6	251 /848.8		MAX	128 /824.2	190 /836.6	251 /848.8
GPRS/ EGPRS (GMSK)	1 Tx Slot	31.00	30.00	30.19	30.52	9.03	21.97	20.97	21.16	21.49
	2 Tx Slots	28.50	27.56	27.63	28.03	6.02	22.48	21.54	21.61	22.01
	3 Tx Slots	26.50	25.74	25.72	26.12	4.26	22.24	21.48	21.46	21.86
	4 Tx Slots	25.50	24.52	24.42	24.78	3.01	22.49	21.51	21.41	21.77
EGPRS (8PSK)	1 Tx Slot	23.50	22.22	22.61	22.54	9.03	14.47	13.19	13.58	13.51
	2 Tx Slots	21.00	19.74	19.83	20.21	6.02	14.98	13.72	13.81	14.19
	3 Tx Slots	18.50	17.64	17.80	17.74	4.26	14.24	13.38	13.54	13.48
	4 Tx Slots	17.50	16.09	15.92	16.65	3.01	14.49	13.08	12.91	13.64
GSM 1900 Pmax&Sensor off--Main Ant0		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GPRS/ EGPRS (GMSK)	1 Tx Slot	30.00	28.46	28.85	28.93	9.03	20.97	19.43	19.82	19.90
	2 Tx Slots	29.00	27.81	28.21	28.29	6.02	22.98	21.79	22.19	22.27
	3 Tx Slots	27.50	26.10	26.52	26.64	4.26	23.24	21.84	22.26	22.38
	4 Tx Slots	26.50	25.01	25.31	25.41	3.01	23.49	22.00	22.30	22.40
EGPRS	1 Tx Slot	26.00	24.54	25.01	25.02	9.03	16.97	15.51	15.98	15.99

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(8PSK)	2 Tx Slots	25.00	23.56	23.87	23.71	6.02	18.98	17.54	17.85	17.69
	3 Tx Slots	23.00	21.49	21.85	21.31	4.26	18.74	17.23	17.59	17.05
	4 Tx Slots	22.00	20.91	20.93	20.89	3.01	18.99	17.90	17.92	17.88
GSM 1900 Sensor on--Main Ant0		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frequency(MHz)		
		MAX	512 /1850.2	661 /1880	810 /1909.8		MAX	512 /1850.2	661 /1880	810 /1909.8
GPRS/ EGPRS (GMSK)	1 Tx Slot	25.00	23.58	24.00	24.10	9.03	15.97	14.55	14.97	15.07
	2 Tx Slots	22.00	20.99	21.53	21.73	6.02	15.98	14.97	15.51	15.71
	3 Tx Slots	20.00	18.83	19.50	19.73	4.26	15.74	14.57	15.24	15.47
	4 Tx Slots	19.00	17.26	17.94	18.24	3.01	15.99	14.25	14.93	15.23
EGPRS (8PSK)	1 Tx Slot	20.50	19.04	19.17	19.54	9.03	11.47	10.01	10.14	10.51
	2 Tx Slots	17.50	16.28	16.74	16.77	6.02	11.48	10.26	10.72	10.75
	3 Tx Slots	15.50	14.12	14.13	14.82	4.26	11.24	9.86	9.87	10.56
	4 Tx Slots	14.00	13.01	13.04	12.94	3.01	10.99	10.00	10.03	9.93
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 850 GMSK (GPRS) mode with 4 time slots for Max power, GSM 1900 GMSK (GPRS) mode with 4 time slots for Max power, based on the output power measurements above.										

9.2 WCDMA Mode

The following tests were completed according to the test requirements outlined in the 3GPP TS34.121 specification.

WCDMA Pmax&Sensor off--Main Ant0		Band II(dBm)				Band IV(dBm)				Band V(dBm)			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up	4132	4183	4233	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit	826.4	836.6	846.6	Limit
RMC	12.2kbps	23.70	23.23	23.35	24.00	23.31	23.25	23.27	24.00	22.97	22.90	22.94	24.00
HSDPA	Sub 1	22.49	21.48	21.57	23.00	22.49	22.10	22.10	23.00	21.87	21.72	21.64	23.00
	Sub 2	22.43	21.34	21.61	23.00	22.39	21.95	21.71	23.00	21.77	21.62	21.49	23.00
	Sub 3	21.83	20.80	21.08	22.00	21.84	21.87	21.55	22.00	21.16	20.90	20.82	22.00
	Sub 4	21.75	20.80	21.09	22.00	21.80	21.83	21.48	22.00	21.31	21.01	20.85	22.00
HSUPA	Sub 1	20.53	19.97	20.06	21.50	20.98	20.60	20.59	21.50	20.41	20.25	20.17	21.50
	Sub 2	20.55	19.51	19.59	21.00	20.53	20.12	20.11	21.00	19.91	19.76	19.67	21.00
	Sub 3	20.54	19.51	19.60	21.00	20.53	20.12	20.14	21.00	19.92	19.76	19.69	21.00
	Sub 4	20.06	19.02	19.10	21.00	20.05	19.64	19.62	21.00	19.45	19.28	19.22	21.00
	Sub 5	21.53	20.49	20.57	22.00	21.48	21.11	21.09	22.00	20.89	20.74	20.65	22.00
DC- HSDPA	Sub 1	22.55	21.36	21.55	23.00	22.53	21.98	22.12	23.00	21.79	21.74	21.70	23.00
	Sub 2	22.57	21.34	21.59	23.00	22.61	21.85	21.81	23.00	21.83	21.64	21.39	23.00
	Sub 3	21.83	20.72	21.14	22.00	21.66	21.93	21.77	22.00	21.28	20.80	20.74	22.00
	Sub 4	21.67	20.84	21.27	22.00	21.62	21.77	21.42	22.00	21.25	21.11	20.85	22.00
HSPA+	16QAM	20.84	20.37	20.79	21.00	20.53	20.47	20.55	21.00	20.17	20.26	20.24	21.00
WCDMA Sensor on--Main Ant0		Band II(dBm)				Band IV(dBm)				Band V(dBm)			
Tx Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up	4132	4183	4233	Tune-up
Frequency(MHz)		1852.4	1880	1907.6	Limit	1712.4	1732.6	1752.6	Limit	826.4	836.6	846.6	Limit
RMC	12.2kbps	13.46	13.35	13.42	14.00	13.05	12.68	12.68	14.00	21.05	20.92	20.82	22.00
HSDPA	Sub 1	12.48	11.45	11.56	13.00	12.08	11.68	11.69	13.00	19.73	19.82	19.46	21.00
	Sub 2	12.14	11.14	11.44	13.00	11.81	11.34	11.36	13.00	19.61	19.42	19.51	21.00
	Sub 3	11.53	10.59	10.79	12.00	11.30	11.33	11.21	12.00	19.08	18.74	18.72	20.00
	Sub 4	11.55	10.64	10.95	12.00	11.22	11.17	11.13	12.00	19.23	18.93	18.89	20.00
HSUPA	Sub 1	10.99	9.96	10.02	11.50	10.55	10.17	10.12	11.50	18.35	18.07	18.01	19.50
	Sub 2	10.51	9.47	9.55	11.00	10.07	9.66	9.66	11.00	17.73	17.58	17.71	19.00
	Sub 3	10.82	9.50	9.54	11.00	10.05	10.66	9.68	11.00	17.92	17.82	17.57	19.00
	Sub 4	10.01	9.02	9.04	11.00	9.60	9.38	9.19	11.00	17.27	17.30	17.24	19.00
	Sub 5	11.46	10.44	10.50	12.00	11.04	10.64	10.62	12.00	18.99	18.56	18.75	20.00

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DC-HSDPA	Sub 1	12.44	11.47	11.74	13.00	12.22	11.80	11.73	13.00	19.73	19.82	19.68	21.00
	Sub 2	12.06	11.26	11.60	13.00	11.91	11.42	11.28	13.00	19.87	19.62	19.23	21.00
	Sub 3	11.61	10.71	10.67	12.00	11.44	11.21	11.25	12.00	19.28	18.80	18.56	20.00
	Sub 4	11.59	10.62	11.07	12.00	11.18	11.35	11.31	12.00	19.07	19.13	18.75	20.00
HSPA+	16QAM	10.71	10.70	10.61	11.00	10.44	9.85	9.83	11.00	18.21	18.36	18.04	19.00

Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

9.3 LTE Mode

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

LTE B2							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	23.53	23.43	23.17	24.00
		1	2	23.54	23.40	23.16	24.00
		1	5	23.57	23.42	23.18	24.00
		3	0	23.59	23.39	23.15	24.00
		3	2	23.60	23.39	23.15	24.00
		3	3	23.63	23.38	23.17	24.00
		6	0	22.59	22.41	22.19	23.00
	16QAM	1	0	22.77	22.72	22.44	23.00
		1	2	22.78	22.72	22.44	23.00
		1	5	22.82	22.77	22.46	23.00
		3	0	22.51	22.36	22.20	23.00
		3	2	22.51	22.38	22.19	23.00
		3	3	22.50	22.37	22.19	23.00
		6	0	21.63	21.47	21.27	22.00
	64QAM	1	0	21.59	21.56	21.31	22.00
		1	2	21.59	21.55	21.30	22.00
		1	5	21.64	21.59	21.35	22.00
		3	0	21.70	21.52	21.29	22.00
		3	2	21.66	21.52	21.31	22.00
		3	3	21.69	21.52	21.31	22.00
		6	0	20.51	20.37	20.18	21.00
	256QAM	1	0	20.78	20.64	20.92	21.00
		1	2	20.86	20.66	20.73	21.00
		1	5	20.57	20.34	20.60	21.00

		3	0	20.43	20.06	20.34	21.00
		3	2	20.74	20.28	20.13	21.00
		3	3	20.74	20.59	20.25	21.00
		6	0	19.43	19.50	19.57	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	23.53	23.43	23.23	24.00
		1	7	23.55	23.40	23.20	24.00
		1	14	23.60	23.33	23.19	24.00
		8	0	22.56	22.40	22.22	23.00
		8	4	22.60	22.39	22.22	23.00
		8	7	22.66	22.36	22.19	23.00
		15	0	22.59	22.36	22.20	23.00
	16QAM	1	0	22.81	22.72	22.48	23.00
		1	7	22.80	22.65	22.43	23.00
		1	14	22.85	22.58	22.41	23.00
		8	0	21.62	21.48	21.28	22.00
		8	4	21.64	21.47	21.28	22.00
		8	7	21.71	21.43	21.28	22.00
		15	0	21.59	21.39	21.21	22.00
	64QAM	1	0	21.68	21.65	21.34	22.00
		1	7	21.72	21.65	21.31	22.00
		1	14	21.76	21.56	21.32	22.00
		8	0	20.62	20.46	20.27	21.00
		8	4	20.64	20.44	20.26	21.00
		8	7	20.70	20.44	20.27	21.00
		15	0	20.60	20.32	20.14	21.00
	256QAM	1	0	20.52	20.70	20.76	21.00
		1	7	20.66	20.60	20.49	21.00
		1	14	20.41	20.32	20.46	21.00
		8	0	19.55	19.34	19.62	20.00
		8	4	19.62	19.22	19.33	20.00
		8	7	19.76	19.45	19.21	20.00
		15	0	19.31	19.58	19.63	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	23.60	23.47	23.33	24.00
		1	13	23.63	23.43	23.23	24.00
		1	24	23.69	23.40	23.23	24.00
		12	0	22.60	22.43	22.32	23.00
		12	6	22.66	22.40	22.27	23.00
		12	13	22.66	22.39	22.24	23.00
		25	0	22.65	22.44	22.31	23.00

	16QAM	1	0	22.83	22.73	22.59	23.00
		1	13	22.83	22.70	22.50	23.00
		1	24	22.86	22.59	22.47	23.00
		12	0	21.56	21.45	21.31	22.00
		12	6	21.65	21.41	21.26	22.00
		12	13	21.67	21.42	21.24	22.00
		25	0	21.66	21.41	21.28	22.00
	64QAM	1	0	21.76	21.62	21.48	22.00
		1	13	21.79	21.58	21.37	22.00
		1	24	21.83	21.54	21.37	22.00
		12	0	20.60	20.47	20.35	21.00
		12	6	20.68	20.41	20.29	21.00
		12	13	20.69	20.43	20.23	21.00
		25	0	20.62	20.39	20.27	21.00
	256QAM	1	0	20.72	20.42	20.56	21.00
		1	13	20.92	20.60	20.53	21.00
		1	24	20.33	20.16	20.12	21.00
		12	0	19.41	19.18	19.40	20.00
		12	6	19.78	19.30	18.93	20.00
		12	13	19.50	19.27	19.37	20.00
		25	0	19.27	19.76	19.55	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	23.65	23.53	23.44	24.00
		1	25	23.68	23.43	23.31	24.00
		1	49	23.66	23.36	23.25	24.00
		25	0	22.67	22.46	22.39	23.00
		25	13	22.70	22.44	22.37	23.00
		25	25	22.69	22.43	22.36	23.00
		50	0	22.71	22.44	22.38	23.00
	16QAM	1	0	22.86	22.79	22.67	23.00
		1	25	22.83	22.71	22.58	23.00
		1	49	22.86	22.64	22.56	23.00
		25	0	21.64	21.44	21.39	22.00
		25	13	21.68	21.39	21.36	22.00
		25	25	21.68	21.42	21.34	22.00
		50	0	21.68	21.40	21.38	22.00
	64QAM	1	0	21.82	21.65	21.55	22.00
		1	25	21.82	21.58	21.43	22.00
		1	49	21.85	21.51	21.37	22.00
		25	0	20.61	20.39	20.37	21.00
		25	13	20.67	20.37	20.30	21.00
		25	25	20.66	20.39	20.30	21.00

		50	0	20.66	20.39	20.36	21.00
	256QAM	1	0	20.60	20.60	20.82	21.00
		1	25	20.72	20.82	20.45	21.00
		1	49	20.43	20.48	20.54	21.00
		25	0	19.73	19.42	19.60	20.00
		25	13	19.92	19.30	19.25	20.00
		25	25	19.70	19.63	19.51	20.00
		50	0	19.59	19.56	19.61	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	23.70	23.54	23.31	24.00
		1	38	23.71	23.47	23.36	24.00
		1	74	23.58	23.31	23.22	24.00
		36	0	22.69	22.46	22.39	23.00
		36	18	22.69	22.43	22.36	23.00
		36	39	22.63	22.40	22.32	23.00
		75	0	22.68	22.42	22.37	23.00
		75	0	22.68	22.42	22.37	23.00
	16QAM	1	0	22.90	22.76	22.59	23.00
		1	38	22.86	22.72	22.61	23.00
		1	74	22.75	22.57	22.51	23.00
		36	0	21.70	21.46	21.38	22.00
		36	18	21.71	21.42	21.36	22.00
		36	39	21.65	21.39	21.32	22.00
		75	0	21.70	21.42	21.39	22.00
		75	0	21.70	21.42	21.39	22.00
	64QAM	1	0	21.85	21.73	21.47	22.00
		1	38	21.90	21.65	21.48	22.00
		1	74	21.77	21.53	21.34	22.00
		36	0	20.70	20.44	20.41	21.00
		36	18	20.74	20.39	20.38	21.00
		36	39	20.65	20.41	20.32	21.00
		75	0	20.67	20.42	20.36	21.00
		75	0	20.67	20.42	20.36	21.00
	256QAM	1	0	20.72	20.54	20.92	21.00
		1	38	20.84	20.72	20.53	21.00
		1	74	20.49	20.36	20.38	21.00
		36	0	19.55	19.34	19.56	20.00
		36	18	19.98	19.18	19.31	20.00
		36	39	19.56	19.53	19.41	20.00
		75	0	19.67	19.72	19.71	20.00
		75	0	19.67	19.72	19.71	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	23.70	23.58	23.38	24.00
		1	50	23.68	23.49	23.38	24.00
		1	99	23.56	23.34	23.26	24.00

		50	0	22.79	22.51	22.50	23.00
		50	25	22.73	22.46	22.42	23.00
		50	50	22.60	22.40	22.43	23.00
		100	0	22.67	22.47	22.46	23.00
	16QAM	1	0	22.88	22.79	22.61	23.00
		1	50	22.81	22.77	22.54	23.00
		1	99	22.73	22.55	22.46	23.00
		50	0	21.77	21.47	21.50	22.00
		50	25	21.72	21.43	21.41	22.00
		50	50	21.61	21.39	21.42	22.00
		100	0	21.67	21.43	21.43	22.00
	64QAM	1	0	21.68	21.70	21.62	22.00
		1	50	21.68	21.66	21.59	22.00
		1	99	21.53	21.48	21.48	22.00
		50	0	20.75	20.48	20.48	21.00
		50	25	20.72	20.42	20.41	21.00
		50	50	20.60	20.39	20.39	21.00
		100	0	20.63	20.44	20.43	21.00
	256QAM	1	0	20.76	20.78	20.66	21.00
		1	50	20.90	20.70	20.49	21.00
		1	99	20.47	20.54	20.52	21.00
		50	0	19.79	19.40	19.44	20.00
		50	25	19.74	19.22	19.33	20.00
		50	50	19.74	19.39	19.27	20.00
		100	0	19.51	19.62	19.45	20.00

LTE B2							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	12.83	12.56	12.28	14.00
		1	2	12.71	12.61	12.36	14.00
		1	5	12.75	12.57	12.40	14.00
		3	0	12.76	12.56	12.40	14.00
		3	2	12.75	12.55	12.35	14.00
		3	3	12.75	12.52	12.37	14.00
		6	0	12.77	12.55	12.43	14.00
	16QAM	1	0	13.04	12.91	12.72	14.00
		1	2	13.06	12.90	12.66	14.00
		1	5	13.05	12.84	12.73	14.00
		3	0	12.79	12.63	12.38	14.00
		3	2	12.78	12.64	12.34	14.00
		3	3	12.79	12.56	12.35	14.00

	64QAM	6	0	12.83	12.62	12.47	14.00
		1	0	12.97	12.81	12.51	14.00
		1	2	13.00	12.76	12.47	14.00
		1	5	12.98	12.74	12.50	14.00
		3	0	12.84	12.69	12.55	14.00
		3	2	12.85	12.70	12.52	14.00
		3	3	12.83	12.65	12.52	14.00
		6	0	12.71	12.54	12.38	14.00
	256QAM	1	0	12.74	13.05	12.83	14.00
		1	2	12.59	12.88	12.82	14.00
		1	5	12.73	12.50	12.40	14.00
		3	0	12.86	12.78	12.91	14.00
		3	2	13.05	12.60	12.73	14.00
		3	3	12.73	12.52	12.76	14.00
		6	0	12.77	12.72	12.54	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	12.77	12.74	12.56	14.00
		1	7	12.71	12.58	12.34	14.00
		1	14	12.67	12.51	12.34	14.00
		8	0	12.68	12.58	12.39	14.00
		8	4	12.71	12.56	12.39	14.00
		8	7	12.74	12.56	12.42	14.00
		15	0	12.74	12.56	12.42	14.00
	16QAM	1	0	13.02	12.88	12.67	14.00
		1	7	13.02	12.87	12.64	14.00
		1	14	12.99	12.81	12.68	14.00
		8	0	12.77	12.64	12.46	14.00
		8	4	12.79	12.63	12.49	14.00
		8	7	12.84	12.65	12.50	14.00
		15	0	12.76	12.56	12.43	14.00
	64QAM	1	0	12.82	12.74	12.51	14.00
		1	7	12.83	12.69	12.45	14.00
		1	14	12.85	12.67	12.51	14.00
		8	0	12.79	12.64	12.50	14.00
		8	4	12.82	12.64	12.48	14.00
		8	7	12.88	12.65	12.52	14.00
		15	0	12.76	12.57	12.45	14.00
	256QAM	1	0	12.76	12.87	12.93	14.00
		1	7	12.95	12.84	12.78	14.00
		1	14	12.77	12.72	12.66	14.00
		8	0	13.08	12.78	12.85	14.00
		8	4	12.97	12.78	12.91	14.00

		8	7	12.85	12.38	12.70	14.00
		15	0	12.95	12.76	12.82	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	12.75	12.62	12.44	14.00
		1	13	12.75	12.61	12.41	14.00
		1	24	12.74	12.52	12.42	14.00
		12	0	12.74	12.63	12.50	14.00
		12	6	12.80	12.59	12.48	14.00
		12	13	12.82	12.61	12.47	14.00
		25	0	12.81	12.63	12.48	14.00
	16QAM	1	0	12.95	12.87	12.77	14.00
		1	13	12.97	12.86	12.70	14.00
		1	24	12.96	12.83	12.71	14.00
		12	0	12.78	12.65	12.53	14.00
		12	6	12.80	12.61	12.52	14.00
		12	13	12.83	12.61	12.48	14.00
		25	0	12.80	12.61	12.48	14.00
	64QAM	1	0	12.95	12.84	12.69	14.00
		1	13	12.88	12.82	12.59	14.00
		1	24	12.91	12.75	12.62	14.00
		12	0	12.80	12.69	12.55	14.00
		12	6	12.83	12.63	12.53	14.00
		12	13	12.87	12.66	12.52	14.00
		25	0	12.77	12.58	12.49	14.00
	256QAM	1	0	12.68	12.95	12.77	14.00
		1	13	12.79	12.68	12.82	14.00
		1	24	12.91	12.78	12.76	14.00
		12	0	13.24	12.74	12.89	14.00
		12	6	12.69	12.66	12.65	14.00
		12	13	12.93	12.52	12.42	14.00
		25	0	12.83	12.88	12.64	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	12.61	12.84	12.60	14.00
		1	25	12.68	12.62	12.46	14.00
		1	49	12.78	12.50	12.48	14.00
		25	0	12.76	12.62	12.59	14.00
		25	13	12.85	12.60	12.54	14.00
		25	25	12.82	12.62	12.51	14.00
		50	0	12.81	12.63	12.55	14.00
	16QAM	1	0	13.10	12.96	12.85	14.00
		1	25	13.02	12.92	12.75	14.00

		1	49	13.14	12.79	12.78	14.00
		25	0	12.76	12.60	12.59	14.00
		25	13	12.84	12.61	12.56	14.00
		25	25	12.82	12.59	12.51	14.00
		50	0	12.80	12.61	12.56	14.00
	64QAM	1	0	12.88	12.79	12.67	14.00
		1	25	12.85	12.73	12.61	14.00
		1	49	12.99	12.65	12.60	14.00
		25	0	12.75	12.60	12.57	14.00
		25	13	12.82	12.60	12.54	14.00
		25	25	12.82	12.61	12.51	14.00
		50	0	12.80	12.59	12.54	14.00
	256QAM	1	0	12.84	12.87	12.71	14.00
		1	25	12.97	12.74	12.86	14.00
		1	49	12.75	12.62	12.58	14.00
		25	0	12.94	12.62	12.97	14.00
		25	13	12.77	12.56	12.97	14.00
		25	25	12.85	12.54	12.52	14.00
		50	0	13.13	12.80	12.86	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	12.81	12.76	12.56	14.00
		1	38	12.77	12.58	12.41	14.00
		1	74	12.68	12.46	12.40	14.00
		36	0	12.88	12.61	12.61	14.00
		36	18	12.81	12.60	12.51	14.00
		36	39	12.77	12.55	12.51	14.00
		75	0	12.80	12.61	12.59	14.00
	16QAM	1	0	13.06	12.92	12.79	14.00
		1	38	13.04	12.90	12.73	14.00
		1	74	12.93	12.73	12.70	14.00
		36	0	12.80	12.57	12.63	14.00
		36	18	12.81	12.59	12.52	14.00
		36	39	12.77	12.54	12.50	14.00
		75	0	12.82	12.60	12.61	14.00
	64QAM	1	0	12.98	12.88	12.73	14.00
		1	38	12.99	12.85	12.66	14.00
		1	74	12.86	12.69	12.63	14.00
		36	0	12.78	12.64	12.66	14.00
		36	18	12.86	12.62	12.56	14.00
		36	39	12.81	12.58	12.54	14.00
		75	0	12.82	12.61	12.59	14.00
	256QAM	1	0	12.84	12.97	12.77	14.00

		1	38	12.81	12.82	12.72	14.00
		1	74	12.79	12.68	12.54	14.00
		36	0	13.06	12.64	12.79	14.00
		36	18	12.85	12.68	12.79	14.00
		36	39	12.91	12.48	12.60	14.00
		75	0	12.97	12.74	12.82	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	12.72	12.62	12.64	14.00
		1	50	12.79	12.68	12.42	14.00
		1	99	12.66	12.50	12.46	14.00
		50	0	13.22	12.93	12.71	14.00
		50	25	12.85	12.63	12.62	14.00
		50	50	12.71	12.62	12.55	14.00
		100	0	12.97	12.92	12.66	14.00
	16QAM	1	0	13.07	12.94	12.74	14.00
		1	50	13.03	12.89	12.80	14.00
		1	99	12.86	12.76	12.76	14.00
		50	0	12.85	12.61	12.72	14.00
		50	25	12.89	12.62	12.65	14.00
		50	50	12.74	12.61	12.55	14.00
		100	0	12.80	12.62	12.63	14.00
	64QAM	1	0	12.88	12.77	12.69	14.00
		1	50	12.85	12.70	12.70	14.00
		1	99	12.77	12.58	12.64	14.00
		50	0	12.84	12.62	12.69	14.00
		50	25	12.91	12.64	12.63	14.00
		50	50	12.75	12.62	12.54	14.00
		100	0	12.77	12.60	12.64	14.00
	256QAM	1	0	12.96	12.75	12.73	14.00
		1	50	12.97	12.84	12.74	14.00
		1	99	12.89	12.70	12.62	14.00
		50	0	12.80	12.68	12.81	14.00
		50	25	13.03	12.82	12.73	14.00
		50	50	12.75	12.64	12.66	14.00
		100	0	12.77	12.72	12.66	14.00

LTE B4							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	23.14	23.20	22.96	24.00
		1	2	23.12	23.20	22.91	24.00
		1	5	23.10	23.16	22.96	24.00
		3	0	23.11	23.16	23.01	24.00
		3	2	23.12	23.14	23.01	24.00
		3	3	23.12	23.16	23.01	24.00
		6	0	22.12	22.17	22.05	23.00
	16QAM	1	0	22.36	22.46	22.16	23.00
		1	2	22.36	22.46	22.20	23.00
		1	5	22.39	22.44	22.20	23.00
		3	0	22.13	22.14	22.02	23.00
		3	2	22.14	22.09	22.02	23.00
		3	3	22.12	22.11	22.04	23.00
		6	0	21.19	21.21	21.11	22.00
	64QAM	1	0	21.31	21.37	21.21	22.00
		1	2	21.25	21.33	21.13	22.00
		1	5	21.30	21.34	21.18	22.00
		3	0	21.18	21.29	21.15	22.00
		3	2	21.20	21.30	21.14	22.00
		3	3	21.16	21.28	21.15	22.00
		6	0	20.10	20.11	20.02	21.00
	256QAM	1	0	20.39	20.15	20.17	21.00
		1	2	20.31	20.42	20.09	21.00
		1	5	20.35	20.07	20.26	21.00
		3	0	19.99	19.91	20.27	21.00
		3	2	20.39	20.14	20.13	21.00
		3	3	20.01	20.09	19.94	21.00
		6	0	19.17	19.19	19.19	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	23.15	23.17	23.01	24.00
		1	7	23.17	23.15	22.96	24.00
		1	14	23.19	23.08	22.94	24.00
		8	0	22.16	22.18	22.04	23.00
		8	4	22.19	22.12	22.03	23.00
		8	7	22.19	22.12	22.01	23.00
		15	0	22.17	22.15	22.02	23.00
	16QAM	1	0	22.33	22.53	22.18	23.00

		1	7	22.35	22.51	22.16	23.00
		1	14	22.42	22.41	22.14	23.00
		8	0	21.23	21.24	21.11	22.00
		8	4	21.23	21.17	21.08	22.00
		8	7	21.22	21.18	21.07	22.00
		15	0	21.18	21.12	21.08	22.00
	64QAM	1	0	21.23	21.31	21.16	22.00
		1	7	21.27	21.31	21.18	22.00
		1	14	21.32	21.24	21.16	22.00
		8	0	20.21	20.25	20.07	21.00
		8	4	20.21	20.16	20.05	21.00
		8	7	20.23	20.19	20.05	21.00
		15	0	20.16	20.14	19.97	21.00
	256QAM	1	0	20.53	20.33	20.45	21.00
		1	7	20.39	20.22	20.31	21.00
		1	14	20.31	20.07	20.14	21.00
		8	0	19.07	19.27	19.17	20.00
		8	4	19.33	19.08	19.17	20.00
		8	7	19.43	19.29	19.18	20.00
		15	0	19.37	19.41	19.31	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	23.16	23.24	23.06	24.00
		1	13	23.23	23.19	23.01	24.00
		1	24	23.24	23.10	23.01	24.00
		12	0	22.22	22.22	22.08	23.00
		12	6	22.19	22.17	22.09	23.00
		12	13	22.23	22.17	22.07	23.00
		25	0	22.23	22.21	22.10	23.00
	16QAM	1	0	22.40	22.55	22.27	23.00
		1	13	22.47	22.49	22.16	23.00
		1	24	22.48	22.40	22.22	23.00
		12	0	21.24	21.23	21.08	22.00
		12	6	21.21	21.16	21.06	22.00
		12	13	21.23	21.17	21.07	22.00
		25	0	21.23	21.19	21.08	22.00
	64QAM	1	0	21.33	21.44	21.20	22.00
		1	13	21.34	21.40	21.13	22.00
		1	24	21.36	21.30	21.14	22.00
		12	0	20.26	20.25	20.12	21.00
		12	6	20.23	20.19	20.10	21.00
		12	13	20.26	20.21	20.10	21.00
		25	0	20.21	20.17	20.05	21.00

	256QAM	1	0	20.41	20.25	20.29	21.00
		1	13	20.19	20.08	20.13	21.00
		1	24	20.27	20.13	20.20	21.00
		12	0	19.27	19.27	19.31	20.00
		12	6	19.45	19.26	19.05	20.00
		12	13	19.15	19.35	18.90	20.00
		25	0	19.09	19.33	19.27	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	23.24	23.29	23.13	24.00
		1	25	23.26	23.19	23.05	24.00
		1	49	23.28	23.14	23.06	24.00
		25	0	22.24	22.24	22.12	23.00
		25	13	22.25	22.18	22.08	23.00
		25	25	22.25	22.19	22.08	23.00
		50	0	22.25	22.21	22.10	23.00
	16QAM	1	0	22.38	22.59	22.31	23.00
		1	25	22.43	22.48	22.19	23.00
		1	49	22.51	22.39	22.26	23.00
		25	0	21.23	21.22	21.14	22.00
		25	13	21.24	21.18	21.09	22.00
		25	25	21.23	21.18	21.07	22.00
		50	0	21.26	21.19	21.08	22.00
	64QAM	1	0	21.35	21.52	21.29	22.00
		1	25	21.40	21.41	21.16	22.00
		1	49	21.45	21.35	21.23	22.00
		25	0	20.23	20.19	20.07	21.00
		25	13	20.23	20.14	20.07	21.00
		25	25	20.21	20.16	20.09	21.00
		50	0	20.23	20.17	20.07	21.00
	256QAM	1	0	20.31	20.29	20.23	21.00
		1	25	20.33	20.06	20.01	21.00
		1	49	20.25	20.39	20.28	21.00
		25	0	18.99	19.15	19.39	20.00
		25	13	19.55	19.20	19.23	20.00
		25	25	19.43	19.39	19.18	20.00
		50	0	19.47	19.33	19.37	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.21	23.28	23.16	24.00
		1	38	23.26	23.24	23.00	24.00
		1	74	23.25	23.15	23.01	24.00
		36	0	22.27	22.22	22.12	23.00

		36	18	22.23	22.18	22.09	23.00
		36	39	22.21	22.15	22.07	23.00
		75	0	22.26	22.22	22.11	23.00
		1	0	22.49	22.56	22.35	23.00
		1	38	22.55	22.46	22.24	23.00
		1	74	22.53	22.43	22.23	23.00
		36	0	21.29	21.24	21.13	22.00
		36	18	21.24	21.17	21.10	22.00
		36	39	21.21	21.16	21.07	22.00
	16QAM	75	0	21.26	21.23	21.11	22.00
		1	0	21.36	21.52	21.41	22.00
		1	38	21.38	21.43	21.28	22.00
		1	74	21.32	21.37	21.21	22.00
		36	0	20.30	20.23	20.13	21.00
		36	18	20.27	20.17	20.10	21.00
		36	39	20.23	20.19	20.07	21.00
		75	0	20.25	20.20	20.11	21.00
	64QAM	1	0	20.27	20.15	20.45	21.00
		1	38	20.23	20.18	20.27	21.00
		1	74	20.41	20.23	20.16	21.00
		36	0	19.35	19.25	19.35	20.00
		36	18	19.31	19.20	19.19	20.00
		36	39	19.41	19.19	19.22	20.00
		75	0	19.17	19.43	19.23	20.00
	256QAM	1	0	20.27	20.15	20.45	21.00
		1	38	20.23	20.18	20.27	21.00
		1	74	20.41	20.23	20.16	21.00
		36	0	19.35	19.25	19.35	20.00
		36	18	19.31	19.20	19.19	20.00
		36	39	19.41	19.19	19.22	20.00
		75	0	19.17	19.43	19.23	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	23.25	23.29	23.21	24.00
		1	50	23.23	23.22	23.12	24.00
		1	99	23.20	23.08	23.03	24.00
		50	0	22.32	22.28	22.21	23.00
		50	25	22.30	22.23	22.15	23.00
		50	50	22.25	22.21	22.14	23.00
		100	0	22.29	22.23	22.12	23.00
	16QAM	1	0	22.54	22.62	22.48	23.00
		1	50	22.57	22.51	22.33	23.00
		1	99	22.54	22.31	22.19	23.00
		50	0	21.32	21.27	21.18	22.00
		50	25	21.27	21.20	21.13	22.00
		50	50	21.23	21.20	21.11	22.00
		100	0	21.28	21.22	21.10	22.00
	64QAM	1	0	21.34	21.32	21.34	22.00
		1	50	21.36	21.27	21.20	22.00
		1	99	21.34	21.14	21.13	22.00

		50	0	20.30	20.28	20.18	21.00
		50	25	20.26	20.21	20.14	21.00
		50	50	20.22	20.22	20.11	21.00
		100	0	20.26	20.20	20.12	21.00
	256QAM	1	0	20.37	20.23	20.29	21.00
		1	50	20.27	20.24	20.15	21.00
		1	99	20.23	20.17	20.12	21.00
		50	0	19.17	19.17	19.27	20.00
		50	25	19.39	19.16	19.21	20.00
		50	50	19.31	19.29	19.08	20.00
		100	0	19.25	19.25	19.19	20.00

LTE B4							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	12.46	12.31	12.16	14.00
		1	2	12.42	12.40	12.27	14.00
		1	5	12.46	12.44	12.24	14.00
		3	0	12.43	12.41	12.28	14.00
		3	2	12.39	12.40	12.30	14.00
		3	3	12.42	12.39	12.29	14.00
		6	0	12.45	12.45	12.32	14.00
	16QAM	1	0	12.73	12.75	12.52	14.00
		1	2	12.68	12.74	12.50	14.00
		1	5	12.73	12.75	12.51	14.00
		3	0	12.41	12.41	12.37	14.00
		3	2	12.41	12.42	12.37	14.00
		3	3	12.41	12.39	12.34	14.00
		6	0	12.53	12.52	12.40	14.00
	64QAM	1	0	12.60	12.63	12.49	14.00
		1	2	12.58	12.61	12.47	14.00
		1	5	12.62	12.62	12.50	14.00
		3	0	12.57	12.53	12.42	14.00
		3	2	12.56	12.51	12.44	14.00
		3	3	12.58	12.52	12.44	14.00
		6	0	12.42	12.45	12.33	14.00
	256QAM	1	0	12.48	12.49	13.03	14.00
		1	2	12.79	12.74	12.62	14.00
		1	5	12.78	12.75	12.69	14.00
		3	0	12.44	12.70	12.28	14.00
		3	2	12.61	13.02	12.20	14.00
		3	3	12.83	12.57	12.40	14.00

		6	0	12.40	12.53	12.48	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	12.30	12.28	12.13	14.00
		1	7	12.45	12.44	12.28	14.00
		1	14	12.46	12.41	12.27	14.00
		8	0	12.49	12.43	12.35	14.00
		8	4	12.47	12.42	12.33	14.00
		8	7	12.47	12.43	12.33	14.00
		15	0	12.47	12.44	12.33	14.00
	16QAM	1	0	12.68	12.79	12.55	14.00
		1	7	12.69	12.74	12.56	14.00
		1	14	12.69	12.74	12.56	14.00
		8	0	12.55	12.48	12.43	14.00
		8	4	12.54	12.46	12.40	14.00
		8	7	12.53	12.48	12.42	14.00
		15	0	12.51	12.46	12.40	14.00
	64QAM	1	0	12.60	12.63	12.49	14.00
		1	7	12.61	12.63	12.50	14.00
		1	14	12.61	12.65	12.49	14.00
		8	0	12.55	12.54	12.44	14.00
		8	4	12.54	12.50	12.41	14.00
		8	7	12.53	12.52	12.38	14.00
		15	0	12.47	12.45	12.35	14.00
	256QAM	1	0	12.44	12.57	12.73	14.00
		1	7	12.85	12.68	12.60	14.00
		1	14	13.04	12.53	12.83	14.00
		8	0	12.60	12.54	12.40	14.00
		8	4	12.71	12.96	12.42	14.00
		8	7	12.79	12.51	12.54	14.00
		15	0	12.54	12.43	12.52	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	12.53	12.35	12.31	14.00
		1	13	12.52	12.44	12.27	14.00
		1	24	12.50	12.46	12.31	14.00
		12	0	12.51	12.49	12.39	14.00
		12	6	12.51	12.47	12.36	14.00
		12	13	12.51	12.49	12.36	14.00
		25	0	12.54	12.51	12.38	14.00
	16QAM	1	0	12.81	12.86	12.59	14.00
		1	13	12.81	12.78	12.53	14.00
		1	24	12.83	12.84	12.55	14.00

		12	0	12.57	12.51	12.37	14.00
		12	6	12.56	12.48	12.40	14.00
		12	13	12.52	12.48	12.40	14.00
		25	0	12.54	12.51	12.41	14.00
	64QAM	1	0	12.73	12.63	12.55	14.00
		1	13	12.67	12.59	12.49	14.00
		1	24	12.70	12.61	12.51	14.00
		12	0	12.59	12.52	12.47	14.00
		12	6	12.57	12.51	12.43	14.00
		12	13	12.54	12.53	12.42	14.00
		25	0	12.52	12.48	12.38	14.00
	256QAM	1	0	12.54	12.65	12.83	14.00
		1	13	12.85	12.54	12.60	14.00
		1	24	12.94	12.55	12.65	14.00
		12	0	12.48	12.62	12.40	14.00
		12	6	12.65	12.82	12.32	14.00
		12	13	12.71	12.37	12.48	14.00
		25	0	12.46	12.43	12.50	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	12.13	12.57	12.44	14.00
		1	25	12.51	12.48	12.31	14.00
		1	49	12.56	12.48	12.30	14.00
		25	0	12.58	12.50	12.49	14.00
		25	13	12.52	12.48	12.44	14.00
		25	25	12.52	12.51	12.41	14.00
		50	0	12.52	12.50	12.42	14.00
	16QAM	1	0	12.85	12.85	12.73	14.00
		1	25	12.80	12.74	12.55	14.00
		1	49	12.83	12.77	12.57	14.00
		25	0	12.57	12.49	12.48	14.00
		25	13	12.52	12.50	12.42	14.00
		25	25	12.50	12.50	12.39	14.00
		50	0	12.57	12.50	12.43	14.00
	64QAM	1	0	12.61	12.69	12.69	14.00
		1	25	12.56	12.60	12.54	14.00
		1	49	12.59	12.62	12.54	14.00
		25	0	12.55	12.47	12.47	14.00
		25	13	12.48	12.48	12.41	14.00
		25	25	12.48	12.48	12.38	14.00
		50	0	12.53	12.50	12.44	14.00
	256QAM	1	0	12.84	12.81	12.89	14.00
		1	25	12.73	12.90	12.78	14.00

		1	49	12.82	12.67	12.65	14.00
		25	0	12.74	12.50	12.42	14.00
		25	13	12.55	12.64	12.50	14.00
		25	25	12.45	12.63	12.44	14.00
		50	0	12.62	12.65	12.56	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	12.60	12.57	12.44	14.00
		1	38	12.51	12.48	12.38	14.00
		1	74	12.48	12.45	12.27	14.00
		36	0	12.55	12.51	12.47	14.00
		36	18	12.49	12.47	12.45	14.00
		36	39	12.48	12.48	12.38	14.00
		75	0	12.55	12.50	12.44	14.00
	16QAM	1	0	12.81	12.89	12.81	14.00
		1	38	12.76	12.82	12.75	14.00
		1	74	12.78	12.76	12.60	14.00
		36	0	12.54	12.51	12.48	14.00
		36	18	12.48	12.47	12.46	14.00
		36	39	12.47	12.47	12.43	14.00
		75	0	12.56	12.52	12.44	14.00
	64QAM	1	0	12.79	12.75	12.62	14.00
		1	38	12.74	12.66	12.53	14.00
		1	74	12.73	12.63	12.42	14.00
		36	0	12.57	12.54	12.50	14.00
		36	18	12.52	12.52	12.47	14.00
		36	39	12.51	12.52	12.41	14.00
		75	0	12.54	12.52	12.45	14.00
	256QAM	1	0	12.92	12.81	12.61	14.00
		1	38	12.65	12.76	12.70	14.00
		1	74	12.76	12.49	12.61	14.00
		36	0	12.70	12.72	12.40	14.00
		36	18	12.65	12.46	12.72	14.00
		36	39	12.57	12.67	12.66	14.00
		75	0	12.70	12.53	12.52	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	12.43	12.58	12.37	14.00
		1	50	12.55	12.52	12.38	14.00
		1	99	12.53	12.48	12.24	14.00
		50	0	12.64	12.56	12.51	14.00
		50	25	12.56	12.53	12.52	14.00
		50	50	12.53	12.55	12.44	14.00

		100	0	12.60	12.55	12.49	14.00
	16QAM	1	0	12.84	12.89	12.77	14.00
		1	50	12.84	12.72	12.63	14.00
		1	99	12.82	12.73	12.51	14.00
		50	0	12.64	12.55	12.50	14.00
		50	25	12.56	12.53	12.51	14.00
		50	50	12.52	12.53	12.46	14.00
		100	0	12.56	12.53	12.47	14.00
	64QAM	1	0	12.72	12.79	12.79	14.00
		1	50	12.77	12.74	12.66	14.00
		1	99	12.66	12.63	12.53	14.00
		50	0	12.66	12.54	12.50	14.00
		50	25	12.59	12.52	12.50	14.00
		50	50	12.51	12.53	12.46	14.00
		100	0	12.56	12.53	12.50	14.00
	256QAM	1	0	12.90	12.93	12.71	14.00
		1	50	12.85	12.64	12.62	14.00
		1	99	12.78	12.69	12.57	14.00
		50	0	12.68	12.50	12.48	14.00
		50	25	12.49	12.44	12.46	14.00
		50	50	12.57	12.43	12.34	14.00
		100	0	12.70	12.57	12.48	14.00

LTE B5							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	22.85	22.72	22.61	24.00
		1	2	22.81	22.67	22.57	24.00
		1	5	22.82	22.71	22.57	24.00
		3	0	22.82	22.69	22.61	24.00
		3	2	22.78	22.69	22.60	24.00
		3	3	22.80	22.67	22.60	24.00
		6	0	21.82	21.71	21.61	23.00
	16QAM	1	0	22.11	21.95	21.86	23.00
		1	2	22.11	21.98	21.88	23.00
		1	5	22.06	21.93	21.88	23.00
		3	0	21.82	21.71	21.60	23.00
		3	2	21.80	21.65	21.56	23.00
		3	3	21.78	21.71	21.57	23.00
		6	0	20.96	20.81	20.73	22.00
	64QAM	1	0	21.12	20.96	20.81	22.00
		1	2	21.06	20.93	20.80	22.00

		1	5	21.12	20.95	20.80	22.00
		3	0	20.95	20.86	20.78	22.00
		3	2	20.95	20.85	20.79	22.00
		3	3	20.95	20.85	20.78	22.00
		6	0	19.84	19.73	19.61	21.00
	256QAM	1	0	20.02	20.17	20.17	21.00
		1	2	19.77	19.89	19.58	21.00
		1	5	20.38	19.96	19.95	21.00
		3	0	19.85	19.63	19.76	21.00
		3	2	19.66	19.70	19.35	21.00
		3	3	19.69	19.83	19.52	21.00
		6	0	18.83	18.72	18.71	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	22.85	22.73	22.59	24.00
		1	7	22.69	22.67	22.55	24.00
		1	14	22.74	22.70	22.58	24.00
		8	0	21.82	21.70	21.63	23.00
		8	4	21.75	21.68	21.60	23.00
		8	7	21.77	21.69	21.61	23.00
		15	0	21.81	21.69	21.66	23.00
	16QAM	1	0	22.15	21.93	21.93	23.00
		1	7	21.99	21.88	21.84	23.00
		1	14	22.03	21.91	21.90	23.00
		8	0	20.94	20.84	20.80	22.00
		8	4	20.93	20.83	20.74	22.00
		8	7	20.92	20.82	20.73	22.00
		15	0	20.86	20.76	20.68	22.00
	64QAM	1	0	21.02	20.94	20.86	22.00
		1	7	20.99	20.87	20.81	22.00
		1	14	21.02	20.87	20.83	22.00
		8	0	19.94	19.82	19.77	21.00
		8	4	19.89	19.80	19.71	21.00
		8	7	19.88	19.80	19.70	21.00
		15	0	19.84	19.77	19.66	21.00
	256QAM	1	0	19.88	20.33	19.91	21.00
		1	7	19.97	19.87	19.78	21.00
		1	14	20.24	20.32	19.79	21.00
		8	0	18.95	18.61	18.86	20.00
		8	4	18.92	18.70	18.55	20.00
		8	7	18.73	18.75	18.74	20.00
		15	0	18.75	18.60	18.75	20.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	22.92	22.81	22.67	24.00
		1	13	22.78	22.72	22.63	24.00
		1	24	22.83	22.74	22.66	24.00
		12	0	21.88	21.76	21.69	23.00
		12	6	21.82	21.74	21.63	23.00
		12	13	21.81	21.73	21.64	23.00
		25	0	21.87	21.77	21.67	23.00
	16QAM	1	0	22.21	22.07	21.97	23.00
		1	13	22.05	22.01	21.89	23.00
		1	24	22.11	22.04	21.90	23.00
		12	0	20.95	20.85	20.82	22.00
		12	6	20.93	20.84	20.77	22.00
		12	13	20.92	20.81	20.72	22.00
		25	0	20.90	20.85	20.76	22.00
	64QAM	1	0	21.09	20.95	20.92	22.00
		1	13	21.01	20.93	20.88	22.00
		1	24	20.99	20.90	20.82	22.00
		12	0	19.96	19.87	19.82	21.00
		12	6	19.94	19.84	19.79	21.00
		12	13	19.92	19.82	19.73	21.00
		25	0	19.89	19.80	19.73	21.00
	256QAM	1	0	20.16	20.23	20.09	21.00
		1	13	19.77	19.89	19.86	21.00
		1	24	20.24	20.04	19.65	21.00
		12	0	19.01	18.73	18.68	20.00
		12	6	18.98	18.90	18.61	20.00
		12	13	18.73	18.67	18.68	20.00
		25	0	18.65	18.66	18.45	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	22.91	22.87	22.78	24.00
		1	25	22.77	22.75	22.65	24.00
		1	49	22.86	22.80	22.72	24.00
		25	0	21.85	21.78	21.74	23.00
		25	13	21.82	21.74	21.66	23.00
		25	25	21.89	21.74	21.68	23.00
		50	0	21.88	21.77	21.70	23.00
	16QAM	1	0	22.15	22.13	22.02	23.00
		1	25	22.02	22.01	21.95	23.00
		1	49	22.10	22.02	21.95	23.00
		25	0	20.88	20.80	20.82	22.00

		25	13	20.84	20.79	20.75	22.00
		25	25	20.88	20.77	20.73	22.00
		50	0	20.91	20.80	20.79	22.00
	64QAM	1	0	21.10	21.13	21.03	22.00
		1	25	20.95	20.99	20.90	22.00
		1	49	21.10	21.02	20.89	22.00
		25	0	19.89	19.79	19.80	21.00
		25	13	19.80	19.76	19.73	21.00
		25	25	19.87	19.75	19.72	21.00
		50	0	19.89	19.76	19.75	21.00
	256QAM	1	0	20.06	20.11	20.05	21.00
		1	25	19.87	19.85	19.74	21.00
		1	49	20.18	20.12	19.75	21.00
		25	0	18.99	18.71	18.70	20.00
		25	13	18.88	18.84	18.57	20.00
		25	25	18.69	18.79	18.72	20.00
		50	0	18.69	18.66	18.57	20.00

LTE B5							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	20.71	20.83	20.82	22.00
		1	2	20.63	21.13	20.71	22.00
		1	5	20.82	20.72	20.80	22.00
		3	0	20.59	20.56	20.60	22.00
		3	2	20.54	21.04	20.74	22.00
		3	3	21.05	20.56	20.84	22.00
		6	0	20.48	20.81	20.58	22.00
	16QAM	1	0	21.31	21.13	20.98	22.00
		1	2	20.76	20.91	21.01	22.00
		1	5	20.78	21.04	20.91	22.00
		3	0	20.94	20.88	20.68	22.00
		3	2	20.66	20.51	20.65	22.00
		3	3	20.88	20.85	20.91	22.00
		6	0	20.47	20.20	20.53	22.00
	64QAM	1	0	20.84	20.61	20.87	22.00
		1	2	20.81	20.79	20.72	22.00
		1	5	20.82	20.76	20.67	22.00
		3	0	20.65	20.21	20.30	22.00
		3	2	20.44	20.36	20.37	22.00
		3	3	20.33	20.37	20.30	22.00
		6	0	19.73	19.46	19.55	21.00

	256QAM	1	0	19.70	19.83	19.99	21.00
		1	2	19.81	19.49	19.54	21.00
		1	5	19.96	19.96	19.61	21.00
		3	0	19.83	19.45	19.38	21.00
		3	2	19.56	19.22	19.09	21.00
		3	3	19.61	19.63	19.30	21.00
		6	0	19.01	18.88	18.47	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	20.85	20.67	21.00	22.00
		1	7	20.97	20.85	20.73	22.00
		1	14	20.94	20.68	20.96	22.00
		8	0	20.71	20.52	20.74	22.00
		8	4	20.58	20.84	20.52	22.00
		8	7	20.75	20.68	20.60	22.00
		15	0	20.66	20.55	20.50	22.00
	16QAM	1	0	21.09	21.21	20.88	22.00
		1	7	20.88	20.97	21.15	22.00
		1	14	20.74	20.92	21.15	22.00
		8	0	20.78	20.86	20.98	22.00
		8	4	20.58	20.61	20.47	22.00
		8	7	21.04	20.73	20.93	22.00
		15	0	20.83	20.46	20.43	22.00
	64QAM	1	0	20.62	20.91	20.65	22.00
		1	7	21.11	20.63	20.96	22.00
		1	14	21.18	20.56	20.89	22.00
		8	0	19.91	19.35	19.54	21.00
		8	4	19.54	19.42	19.43	21.00
		8	7	19.43	19.55	19.58	21.00
		15	0	19.73	19.28	19.53	21.00
	256QAM	1	0	19.62	19.99	19.99	21.00
		1	7	19.63	19.59	19.38	21.00
		1	14	20.10	19.76	19.35	21.00
		8	0	19.07	18.31	18.40	20.00
		8	4	18.72	18.42	18.15	20.00
		8	7	18.53	18.95	18.34	20.00
		15	0	18.83	18.84	18.29	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	21.05	20.95	20.84	22.00
		1	13	20.89	20.95	20.71	22.00
		1	24	21.02	20.66	20.78	22.00
		12	0	20.73	20.82	20.52	22.00

		12	6	20.72	20.88	20.66	22.00
		12	13	21.09	20.50	20.66	22.00
		25	0	20.56	20.55	20.48	22.00
	16QAM	1	0	21.21	21.15	21.12	22.00
		1	13	21.12	21.03	20.93	22.00
		1	24	20.84	21.02	20.97	22.00
		12	0	20.78	21.08	21.06	22.00
		12	6	20.88	20.77	20.71	22.00
		12	13	21.00	20.81	20.85	22.00
		25	0	20.93	20.36	20.57	22.00
	64QAM	1	0	20.90	20.65	20.79	22.00
		1	13	20.77	20.83	21.02	22.00
		1	24	20.94	20.56	20.57	22.00
		12	0	19.67	19.43	19.76	21.00
		12	6	19.56	19.46	19.51	21.00
		12	13	19.57	19.43	19.44	21.00
		25	0	19.57	19.50	19.51	21.00
	256QAM	1	0	19.88	20.01	19.97	21.00
		1	13	19.77	19.49	19.50	21.00
		1	24	20.08	19.88	19.41	21.00
		12	0	19.01	18.37	18.46	20.00
		12	6	18.72	18.62	18.09	20.00
		12	13	18.57	18.81	18.60	20.00
		25	0	18.85	18.64	18.41	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	20.91	20.85	20.82	22.00
		1	25	20.85	20.85	20.71	22.00
		1	49	20.88	20.68	20.76	22.00
		25	0	20.71	20.66	20.68	22.00
		25	13	20.68	20.58	20.61	22.00
		25	25	20.91	20.52	20.66	22.00
		50	0	20.66	20.63	20.48	22.00
	16QAM	1	0	21.09	21.01	21.02	22.00
		1	25	20.94	20.87	20.95	22.00
		1	49	20.86	20.96	21.01	22.00
		25	0	20.86	20.92	20.90	22.00
		25	13	20.74	20.75	20.65	22.00
		25	25	20.90	20.67	20.79	22.00
		50	0	20.75	20.48	20.57	22.00
	64QAM	1	0	20.80	20.77	20.75	22.00
		1	25	20.89	20.71	20.86	22.00
		1	49	20.98	20.66	20.67	22.00

		25	0	19.69	19.53	19.58	21.00
		25	13	19.60	19.48	19.51	21.00
		25	25	19.47	19.39	19.40	21.00
		50	0	19.65	19.42	19.49	21.00
	256QAM	1	0	19.76	19.89	19.89	21.00
		1	25	19.77	19.49	19.54	21.00
		1	49	20.10	19.94	19.51	21.00
		25	0	18.87	18.45	18.30	20.00
		25	13	18.84	18.46	18.17	20.00
		25	25	18.57	18.77	18.46	20.00
		50	0	18.81	18.72	18.47	20.00

LTE B7							
Pmax&Sensor off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	22.67	22.73	22.85	24.00
		1	13	22.73	22.74	22.82	24.00
		1	24	22.82	22.73	22.85	24.00
		12	0	21.76	21.77	21.88	23.00
		12	6	21.75	21.71	21.85	23.00
		12	13	21.80	21.74	21.84	23.00
		25	0	21.55	21.78	21.91	23.00
	16QAM	1	0	22.58	22.00	22.17	23.00
		1	13	21.89	22.01	22.12	23.00
		1	24	21.97	21.99	22.15	23.00
		12	0	20.64	20.78	20.88	22.00
		12	6	20.63	20.72	20.85	22.00
		12	13	20.70	20.74	20.88	22.00
		25	0	20.66	20.76	20.89	22.00
	64QAM	1	0	20.74	20.91	21.00	22.00
		1	13	20.77	20.90	20.98	22.00
		1	24	20.87	20.90	21.00	22.00
		12	0	19.66	19.80	19.91	21.00
		12	6	19.67	19.73	19.86	21.00
		12	13	19.72	19.73	19.88	21.00
		25	0	19.64	19.73	19.84	21.00
	256QAM	1	0	19.59	20.12	19.65	21.00
		1	13	19.99	19.87	20.30	21.00
		1	24	20.45	19.74	20.41	21.00
		12	0	18.94	18.86	18.78	20.00
		12	6	18.73	18.64	18.98	20.00
		12	13	19.00	19.14	18.97	20.00

		25	0	18.81	18.56	18.81	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	22.61	22.79	22.79	24.00
		1	25	22.67	22.73	22.85	24.00
		1	49	22.87	22.77	22.92	24.00
		25	0	21.65	21.78	21.86	23.00
		25	13	21.72	21.75	21.84	23.00
		25	25	21.78	21.79	21.89	23.00
		50	0	21.71	21.78	21.86	23.00
	16QAM	1	0	21.88	22.06	22.07	23.00
		1	25	21.94	22.02	22.15	23.00
		1	49	22.15	22.06	22.18	23.00
		25	0	20.65	20.78	20.86	22.00
		25	13	20.70	20.73	20.84	22.00
		25	25	20.77	20.77	20.89	22.00
		50	0	20.70	20.76	20.89	22.00
	64QAM	1	0	20.77	20.94	21.00	22.00
		1	25	20.82	20.89	21.06	22.00
		1	49	21.01	20.92	21.10	22.00
		25	0	19.62	19.73	19.80	21.00
		25	13	19.68	19.70	19.79	21.00
		25	25	19.75	19.73	19.86	21.00
		50	0	19.70	19.73	19.84	21.00
	256QAM	1	0	19.67	20.40	20.01	21.00
		1	25	20.23	20.11	20.32	21.00
		1	49	20.27	19.98	20.43	21.00
		25	0	18.94	19.04	18.92	20.00
		25	13	18.97	18.82	18.98	20.00
		25	25	19.06	19.02	19.15	20.00
		50	0	18.89	18.98	18.73	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	22.65	22.81	22.73	24.00
		1	38	22.85	22.83	22.90	24.00
		1	74	22.99	22.82	22.98	24.00
		36	0	21.74	21.79	21.78	23.00
		36	18	21.81	21.79	21.86	23.00
		36	39	21.90	21.80	21.93	23.00
		75	0	21.84	21.84	21.88	23.00
	16QAM	1	0	21.92	22.10	22.01	23.00
		1	38	22.10	22.09	22.18	23.00
		1	74	22.28	22.07	22.28	23.00

		36	0	20.75	20.80	20.80	22.00
		36	18	20.81	20.79	20.87	22.00
		36	39	20.90	20.82	20.94	22.00
		75	0	20.84	20.85	20.91	22.00
	64QAM	1	0	20.83	20.99	20.91	22.00
		1	38	21.00	21.00	21.07	22.00
		1	74	21.17	20.95	21.14	22.00
		36	0	19.75	19.80	19.80	21.00
		36	18	19.80	19.79	19.87	21.00
		36	39	19.91	19.82	19.95	21.00
		75	0	19.82	19.82	19.87	21.00
	256QAM	1	0	19.63	20.26	20.05	21.00
		1	38	20.09	19.97	20.44	21.00
		1	74	20.23	20.06	20.53	21.00
		36	0	18.92	19.12	18.78	20.00
		36	18	18.89	18.96	18.84	20.00
		36	39	19.10	19.04	18.91	20.00
		75	0	18.89	18.76	18.89	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	22.66	22.88	22.64	24.00
		1	50	22.89	22.84	22.87	24.00
		1	99	23.06	22.82	23.02	24.00
		50	0	21.84	21.89	21.82	23.00
		50	25	21.92	21.88	21.90	23.00
		50	50	22.00	21.90	21.99	23.00
		100	0	21.91	21.89	21.92	23.00
	16QAM	1	0	21.94	22.18	21.95	23.00
		1	50	22.19	22.13	22.17	23.00
		1	99	22.36	22.12	22.33	23.00
		50	0	20.82	20.88	20.81	22.00
		50	25	20.91	20.86	20.90	22.00
		50	50	21.00	20.90	20.99	22.00
		100	0	20.90	20.89	20.90	22.00
	64QAM	1	0	20.79	21.06	20.81	22.00
		1	50	21.03	21.03	21.04	22.00
		1	99	21.21	21.00	21.19	22.00
		50	0	19.80	19.86	19.80	21.00
		50	25	19.87	19.84	19.88	21.00
		50	50	19.98	19.86	19.97	21.00
		100	0	19.89	19.86	19.87	21.00
	256QAM	1	0	19.85	20.28	19.85	21.00
		1	50	20.13	20.13	20.34	21.00

		1	99	20.31	20.14	20.45	21.00
		50	0	19.04	19.12	18.90	20.00
		50	25	18.77	18.96	18.82	20.00
		50	50	19.14	18.96	19.07	20.00
		100	0	18.91	18.82	18.93	20.00

LTE B7							
Sensor on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	12.10	12.48	12.51	14.00
		1	13	12.12	12.19	12.26	14.00
		1	24	12.17	12.14	12.31	14.00
		12	0	12.16	12.21	12.31	14.00
		12	6	12.18	12.19	12.32	14.00
		12	13	12.19	12.19	12.32	14.00
		25	0	12.20	12.23	12.33	14.00
	16QAM	1	0	12.36	12.42	12.58	14.00
		1	13	12.38	12.40	12.58	14.00
		1	24	12.49	12.42	12.61	14.00
		12	0	12.15	12.24	12.35	14.00
		12	6	12.18	12.20	12.34	14.00
		12	13	12.20	12.20	12.34	14.00
		25	0	12.19	12.23	12.33	14.00
	64QAM	1	0	12.31	12.36	12.45	14.00
		1	13	12.35	12.33	12.43	14.00
		1	24	12.39	12.35	12.50	14.00
		12	0	12.17	12.26	12.35	14.00
		12	6	12.21	12.23	12.36	14.00
		12	13	12.22	12.23	12.36	14.00
		25	0	12.16	12.20	12.31	14.00
	256QAM	1	0	12.31	12.57	12.12	14.00
		1	13	12.67	12.49	12.61	14.00
		1	24	12.73	12.47	12.77	14.00
		12	0	12.38	12.29	12.29	14.00
		12	6	12.40	12.48	12.49	14.00
		12	13	12.63	12.28	12.51	14.00
		25	0	12.29	12.41	12.33	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
10MHz	QPSK			20800/2505	21100/2535	21400/2565	
		1	0	12.25	12.69	12.66	14.00
		1	25	12.11	12.17	12.21	14.00
		1	49	12.38	12.17	12.36	14.00

		25	0	12.13	12.22	12.25	14.00
		25	13	12.17	12.16	12.24	14.00
		25	25	12.28	12.15	12.31	14.00
		50	0	12.20	12.19	12.27	14.00
	16QAM	1	0	12.41	12.47	12.45	14.00
		1	25	12.39	12.40	12.44	14.00
		1	49	12.62	12.38	12.64	14.00
		25	0	12.13	12.21	12.25	14.00
		25	13	12.17	12.16	12.24	14.00
		25	25	12.26	12.19	12.30	14.00
		50	0	12.20	12.20	12.28	14.00
	64QAM	1	0	12.32	12.44	12.43	14.00
		1	25	12.26	12.33	12.44	14.00
		1	49	12.52	12.37	12.59	14.00
		25	0	12.12	12.22	12.23	14.00
		25	13	12.19	12.15	12.23	14.00
		25	25	12.24	12.17	12.27	14.00
		50	0	12.20	12.17	12.24	14.00
	256QAM	1	0	12.31	12.61	12.02	14.00
		1	25	12.39	12.35	12.33	14.00
		1	49	12.47	12.43	12.63	14.00
		25	0	12.54	12.11	12.31	14.00
		25	13	12.66	12.30	12.27	14.00
		25	25	12.75	12.24	12.19	14.00
		50	0	12.39	12.57	12.13	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	12.08	12.50	12.54	14.00
		1	38	12.24	12.21	12.25	14.00
		1	74	12.44	12.15	12.39	14.00
		36	0	12.14	12.24	12.18	14.00
		36	18	12.26	12.15	12.25	14.00
		36	39	12.37	12.16	12.31	14.00
		75	0	12.28	12.22	12.28	14.00
	16QAM	1	0	12.34	12.51	12.38	14.00
		1	38	12.51	12.41	12.51	14.00
		1	74	12.70	12.41	12.62	14.00
		36	0	12.14	12.25	12.19	14.00
		36	18	12.24	12.18	12.28	14.00
		36	39	12.36	12.17	12.34	14.00
		75	0	12.28	12.23	12.30	14.00
	64QAM	1	0	12.27	12.34	12.23	14.00
		1	38	12.41	12.29	12.36	14.00

		1	74	12.61	12.27	12.55	14.00
		36	0	12.16	12.27	12.21	14.00
		36	18	12.26	12.17	12.27	14.00
		36	39	12.42	12.19	12.34	14.00
		75	0	12.29	12.23	12.29	14.00
	256QAM	1	0	12.33	12.59	12.08	14.00
		1	38	12.43	12.37	12.57	14.00
		1	74	12.53	12.47	12.71	14.00
		36	0	12.36	12.15	12.47	14.00
		36	18	12.36	12.28	12.51	14.00
		36	39	12.53	12.16	12.41	14.00
		75	0	12.37	12.39	12.35	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	12.26	12.53	12.22	14.00
		1	50	12.37	12.23	12.22	14.00
		1	99	12.54	12.20	12.42	14.00
		50	0	12.27	12.35	12.20	14.00
		50	25	12.38	12.27	12.29	14.00
		50	50	12.48	12.26	12.38	14.00
		100	0	12.35	12.29	12.30	14.00
	16QAM	1	0	12.42	12.50	12.33	14.00
		1	50	12.55	12.41	12.51	14.00
		1	99	12.78	12.40	12.74	14.00
		50	0	12.23	12.28	12.21	14.00
		50	25	12.37	12.26	12.31	14.00
		50	50	12.46	12.25	12.37	14.00
		100	0	12.32	12.24	12.24	14.00
	64QAM	1	0	12.31	12.49	12.18	14.00
		1	50	12.57	12.49	12.39	14.00
		1	99	12.73	12.47	12.61	14.00
		50	0	12.24	12.29	12.17	14.00
		50	25	12.36	12.24	12.29	14.00
		50	50	12.45	12.24	12.33	14.00
		100	0	12.33	12.27	12.25	14.00
	256QAM	1	0	12.27	12.65	12.12	14.00
		1	50	12.55	12.43	12.47	14.00
		1	99	12.61	12.43	12.77	14.00
		50	0	12.40	12.23	12.29	14.00
		50	25	12.46	12.34	12.41	14.00
		50	50	12.63	12.20	12.35	14.00
		100	0	12.25	12.41	12.17	14.00

LTE B7							
WWAN+WALN Sensor on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	10.40	10.67	10.38	12.00
		1	13	10.73	10.51	10.36	12.00
		1	24	10.70	10.44	10.80	12.00
		12	0	10.51	10.67	10.58	12.00
		12	6	10.74	10.49	10.43	12.00
		12	13	10.86	10.42	10.60	12.00
		25	0	10.63	10.61	10.62	12.00
	16QAM	1	0	10.64	10.66	10.57	12.00
		1	13	10.69	10.57	10.77	12.00
		1	24	11.08	10.56	11.12	12.00
		12	0	10.41	10.56	10.37	12.00
		12	6	10.57	10.44	10.49	12.00
		12	13	10.74	10.39	10.53	12.00
		25	0	10.56	10.46	10.58	12.00
	64QAM	1	0	10.57	10.83	10.32	12.00
		1	13	10.87	10.85	10.71	12.00
		1	24	10.91	10.75	10.91	12.00
		12	0	10.54	10.59	10.35	12.00
		12	6	10.74	10.58	10.59	12.00
		12	13	10.65	10.52	10.63	12.00
		25	0	10.51	10.65	10.41	12.00
	256QAM	1	0	10.55	11.01	10.36	12.00
		1	13	10.89	10.65	10.73	12.00
		1	24	10.81	10.81	11.03	12.00
		12	0	10.78	10.55	10.45	12.00
		12	6	10.66	10.66	10.55	12.00
		12	13	10.75	10.38	10.49	12.00
		25	0	10.55	10.65	10.53	12.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	10.62	10.67	10.64	12.00
		1	25	10.73	10.27	10.56	12.00
		1	49	10.74	10.44	10.68	12.00
		25	0	10.59	10.77	10.60	12.00
		25	13	10.62	10.35	10.55	12.00
		25	25	10.84	10.34	10.48	12.00
		50	0	10.51	10.53	10.42	12.00
	16QAM	1	0	10.84	10.56	10.61	12.00
		1	25	10.81	10.75	10.59	12.00

		1	49	11.00	10.68	10.92	12.00
		25	0	10.27	10.56	10.45	12.00
		25	13	10.67	10.62	10.57	12.00
		25	25	10.70	10.69	10.43	12.00
		50	0	10.46	10.34	10.54	12.00
	64QAM	1	0	10.51	10.77	10.56	12.00
		1	25	10.73	10.89	10.57	12.00
		1	49	10.99	10.53	10.69	12.00
		25	0	10.32	10.33	10.37	12.00
		25	13	10.70	10.48	10.55	12.00
		25	25	10.63	10.62	10.67	12.00
		50	0	10.69	10.65	10.37	12.00
	256QAM	1	0	10.49	10.83	10.42	12.00
		1	25	10.65	10.77	10.79	12.00
		1	49	10.65	10.71	11.15	12.00
		25	0	10.70	10.43	10.39	12.00
		25	13	10.86	10.54	10.49	12.00
		25	25	10.77	10.34	10.59	12.00
		50	0	10.67	10.71	10.53	12.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	10.42	10.85	10.42	12.00
		1	38	10.69	10.45	10.42	12.00
		1	74	10.84	10.30	10.66	12.00
		36	0	10.61	10.47	10.30	12.00
		36	18	10.60	10.47	10.65	12.00
		36	39	10.86	10.48	10.70	12.00
		75	0	10.51	10.47	10.46	12.00
	16QAM	1	0	10.54	10.74	10.71	12.00
		1	38	10.79	10.77	10.67	12.00
		1	74	10.92	10.74	11.04	12.00
		36	0	10.41	10.52	10.41	12.00
		36	18	10.51	10.46	10.57	12.00
		36	39	10.82	10.63	10.61	12.00
		75	0	10.54	10.38	10.60	12.00
	64QAM	1	0	10.49	10.81	10.30	12.00
		1	38	10.89	10.89	10.49	12.00
		1	74	11.03	10.67	10.97	12.00
		36	0	10.60	10.49	10.37	12.00
		36	18	10.52	10.58	10.67	12.00
		36	39	10.63	10.38	10.45	12.00
		75	0	10.69	10.51	10.37	12.00
	256QAM	1	0	10.39	10.93	10.24	12.00

		1	38	10.85	10.53	10.69	12.00
		1	74	10.81	10.77	10.87	12.00
		36	0	10.56	10.63	10.63	12.00
		36	18	10.70	10.52	10.53	12.00
		36	39	10.91	10.56	10.45	12.00
		75	0	10.63	10.53	10.29	12.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	10.20	10.71	10.44	12.00
		1	50	10.81	10.27	10.48	12.00
		1	99	10.84	10.16	10.80	12.00
		50	0	10.41	10.51	10.20	12.00
		50	25	10.60	10.59	10.53	12.00
		50	50	10.66	10.56	10.38	12.00
		100	0	10.53	10.47	10.58	12.00
	16QAM	1	0	10.60	10.44	10.31	12.00
		1	50	10.75	10.71	10.97	12.00
		1	99	10.98	10.68	10.78	12.00
		50	0	10.27	10.48	10.57	12.00
		50	25	10.71	10.62	10.59	12.00
		50	50	10.64	10.71	10.89	12.00
		100	0	10.58	10.62	10.34	12.00
	64QAM	1	0	10.55	10.69	10.44	12.00
		1	50	10.67	10.73	10.75	12.00
		1	99	10.95	10.73	10.61	12.00
		50	0	10.74	10.45	10.31	12.00
		50	25	10.34	10.56	10.43	12.00
		50	50	10.49	10.20	10.43	12.00
		100	0	10.61	10.73	10.19	12.00
	256QAM	1	0	10.65	10.89	10.48	12.00
		1	50	10.81	10.61	10.57	12.00
		1	99	10.83	10.79	11.13	12.00
		50	0	10.52	10.43	10.43	12.00
		50	25	10.56	10.72	10.61	12.00
		50	50	10.73	10.36	10.65	12.00
		100	0	10.61	10.73	10.49	12.00

LTE B12							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	22.81	22.79	22.70	24.00
		1	2	22.78	22.79	22.72	24.00
		1	5	22.77	22.79	22.71	24.00
		3	0	22.78	22.76	22.69	24.00
		3	2	22.73	22.72	22.65	24.00
		3	3	22.78	22.76	22.69	24.00
		6	0	21.83	21.74	21.67	23.00
	16QAM	1	0	22.08	22.09	21.99	23.00
		1	2	22.10	22.07	21.99	23.00
		1	5	22.17	22.06	22.00	23.00
		3	0	21.77	21.77	21.64	23.00
		3	2	21.78	21.76	21.64	23.00
		3	3	21.79	21.77	21.63	23.00
		6	0	20.88	20.83	20.72	22.00
	64QAM	1	0	21.00	21.02	20.82	22.00
		1	2	21.00	20.99	20.78	22.00
		1	5	21.10	20.95	20.81	22.00
		3	0	20.89	20.86	20.78	22.00
		3	2	20.89	20.85	20.80	22.00
		3	3	20.90	20.85	20.80	22.00
		6	0	19.78	19.71	19.64	21.00
	256QAM	1	0	20.14	19.74	19.84	21.00
		1	2	20.06	19.82	19.77	21.00
		1	5	19.95	19.98	20.09	21.00
3		0	19.74	19.40	19.39	21.00	
3		2	19.80	19.46	19.37	21.00	
3		3	19.52	19.42	19.47	21.00	
6		0	18.52	18.82	18.83	20.00	
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	22.77	22.79	22.71	24.00
		1	7	22.73	22.74	22.68	24.00
		1	14	22.80	22.78	22.70	24.00
		8	0	21.81	21.79	21.71	23.00
		8	4	21.81	21.76	21.69	23.00
		8	7	21.80	21.76	21.66	23.00
		15	0	21.82	21.74	21.69	23.00
	16QAM	1	0	22.09	21.99	21.93	23.00

		1	7	22.11	22.01	21.95	23.00
		1	14	22.10	22.00	21.93	23.00
		8	0	20.88	20.81	20.74	22.00
		8	4	20.89	20.80	20.71	22.00
		8	7	20.87	20.78	20.70	22.00
		15	0	20.85	20.76	20.70	22.00
	64QAM	1	0	20.93	20.87	20.83	22.00
		1	7	20.96	20.88	20.86	22.00
		1	14	20.96	20.88	20.87	22.00
		8	0	19.89	19.80	19.73	21.00
		8	4	19.88	19.76	19.70	21.00
		8	7	19.89	19.73	19.67	21.00
		15	0	19.79	19.71	19.64	21.00
	256QAM	1	0	19.92	19.92	19.80	21.00
		1	7	19.86	19.92	19.95	21.00
		1	14	20.07	19.84	20.01	21.00
		8	0	18.72	18.62	18.77	20.00
		8	4	18.80	18.66	18.61	20.00
		8	7	18.84	18.74	18.69	20.00
		15	0	18.72	18.70	18.71	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	22.85	22.82	22.78	24.00
		1	13	22.79	22.83	22.74	24.00
		1	24	22.92	22.85	22.80	24.00
		12	0	21.83	21.82	21.72	23.00
		12	6	21.84	21.80	21.72	23.00
		12	13	21.87	21.80	21.74	23.00
		25	0	21.86	21.82	21.75	23.00
	16QAM	1	0	22.08	22.06	22.05	23.00
		1	13	22.06	22.09	22.05	23.00
		1	24	22.14	22.10	22.07	23.00
		12	0	20.81	20.82	20.73	22.00
		12	6	20.85	20.78	20.75	22.00
		12	13	20.89	20.79	20.71	22.00
		25	0	20.85	20.81	20.74	22.00
	64QAM	1	0	20.96	20.87	20.90	22.00
		1	13	20.92	20.89	20.90	22.00
		1	24	21.00	20.90	20.90	22.00
		12	0	19.85	19.82	19.75	21.00
		12	6	19.86	19.84	19.77	21.00
		12	13	19.91	19.82	19.75	21.00
		25	0	19.82	19.79	19.70	21.00

	256QAM	1	0	20.10	19.82	19.98	21.00
		1	13	19.94	19.66	19.77	21.00
		1	24	20.03	20.08	20.03	21.00
		12	0	18.54	18.86	18.85	20.00
		12	6	18.90	18.60	18.63	20.00
		12	13	18.66	18.64	18.61	20.00
		25	0	18.88	18.64	18.63	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	22.88	22.87	22.87	24.00
		1	25	22.91	22.87	22.81	24.00
		1	49	22.98	22.95	22.91	24.00
		25	0	21.77	21.82	21.77	23.00
		25	13	21.84	21.79	21.76	23.00
		25	25	21.83	21.85	21.77	23.00
		50	0	21.83	21.83	21.78	23.00
	16QAM	1	0	22.15	22.13	22.13	23.00
		1	25	22.10	22.07	22.08	23.00
		1	49	22.25	22.19	22.16	23.00
		25	0	20.77	20.80	20.76	22.00
		25	13	20.80	20.78	20.72	22.00
		25	25	20.80	20.82	20.77	22.00
		50	0	20.80	20.82	20.76	22.00
	64QAM	1	0	21.04	20.96	20.98	22.00
		1	25	20.94	20.92	20.91	22.00
		1	49	21.07	21.04	21.03	22.00
		25	0	19.78	19.80	19.73	21.00
		25	13	19.82	19.76	19.73	21.00
		25	25	19.80	19.80	19.73	21.00
		50	0	19.78	19.80	19.75	21.00
	256QAM	1	0	19.94	19.82	19.96	21.00
		1	25	19.76	19.90	19.87	21.00
		1	49	19.91	20.06	20.11	21.00
		25	0	18.76	18.58	18.53	20.00
		25	13	18.64	18.58	18.75	20.00
		25	25	18.76	18.76	18.59	20.00
		50	0	18.82	18.78	18.59	20.00

LTE B12							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	21.25	21.22	21.14	22.00
		1	2	21.27	21.24	21.14	22.00
		1	5	21.35	21.23	21.16	22.00
		3	0	21.26	21.19	21.14	22.00
		3	2	21.29	21.17	21.16	22.00
		3	3	21.29	21.19	21.12	22.00
		6	0	21.31	21.20	21.14	22.00
	16QAM	1	0	21.50	21.56	21.46	22.00
		1	2	21.52	21.50	21.47	22.00
		1	5	21.57	21.61	21.47	22.00
		3	0	21.24	21.21	21.12	22.00
		3	2	21.28	21.18	21.12	22.00
		3	3	21.33	21.14	21.13	22.00
		6	0	21.37	21.28	21.21	22.00
	64QAM	1	0	21.50	21.43	21.34	22.00
		1	2	21.44	21.42	21.34	22.00
		1	5	21.48	21.42	21.31	22.00
		3	0	21.38	21.29	21.25	22.00
		3	2	21.36	21.29	21.25	22.00
		3	3	21.38	21.29	21.25	22.00
		6	0	20.31	20.22	20.08	21.00
	256QAM	1	0	20.32	20.20	20.14	21.00
		1	2	20.41	20.17	20.24	21.00
		1	5	20.68	20.31	20.47	21.00
		3	0	20.27	20.05	20.08	21.00
		3	2	19.99	20.05	19.96	21.00
		3	3	20.29	20.08	19.93	21.00
		6	0	19.01	19.19	19.12	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	21.22	21.21	21.14	22.00
		1	7	21.25	21.21	21.14	22.00
		1	14	21.24	21.20	21.15	22.00
		8	0	21.26	21.24	21.15	22.00
		8	4	21.26	21.22	21.13	22.00
		8	7	21.27	21.22	21.12	22.00
		15	0	21.30	21.22	21.15	22.00
	16QAM	1	0	21.54	21.52	21.50	22.00

		1	7	21.53	21.52	21.51	22.00
		1	14	21.53	21.56	21.46	22.00
		8	0	21.35	21.31	21.21	22.00
		8	4	21.35	21.26	21.19	22.00
		8	7	21.34	21.24	21.15	22.00
		15	0	21.30	21.24	21.14	22.00
	64QAM	1	0	21.42	21.34	21.24	22.00
		1	7	21.38	21.39	21.26	22.00
		1	14	21.49	21.41	21.27	22.00
		8	0	20.32	20.28	20.21	21.00
		8	4	20.36	20.24	20.17	21.00
		8	7	20.37	20.23	20.15	21.00
		15	0	20.28	20.21	20.15	21.00
	256QAM	1	0	20.30	20.26	20.08	21.00
		1	7	20.29	20.09	20.16	21.00
		1	14	20.64	20.17	20.49	21.00
		8	0	19.27	19.13	19.30	20.00
		8	4	19.15	19.01	18.98	20.00
		8	7	19.25	19.24	18.97	20.00
		15	0	19.11	19.31	19.16	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	21.30	21.26	21.24	22.00
		1	13	21.27	21.24	21.20	22.00
		1	24	21.35	21.28	21.23	22.00
		12	0	21.28	21.28	21.20	22.00
		12	6	21.31	21.25	21.20	22.00
		12	13	21.33	21.24	21.18	22.00
		25	0	21.33	21.29	21.19	22.00
	16QAM	1	0	21.60	21.54	21.45	22.00
		1	13	21.64	21.57	21.49	22.00
		1	24	21.62	21.45	21.48	22.00
		12	0	21.31	21.30	21.19	22.00
		12	6	21.34	21.26	21.23	22.00
		12	13	21.36	21.28	21.21	22.00
		25	0	21.33	21.30	21.20	22.00
	64QAM	1	0	21.43	21.41	21.27	22.00
		1	13	21.39	21.34	21.33	22.00
		1	24	21.47	21.38	21.34	22.00
		12	0	20.31	20.33	20.23	21.00
		12	6	20.35	20.29	20.24	21.00
		12	13	20.40	20.31	20.23	21.00
		25	0	20.31	20.27	20.19	21.00

	256QAM	1	0	20.54	20.24	20.38	21.00
		1	13	20.45	20.13	20.36	21.00
		1	24	20.60	20.27	20.37	21.00
		12	0	19.25	19.11	19.04	20.00
		12	6	19.03	19.15	19.20	20.00
		12	13	19.13	19.00	18.97	20.00
		25	0	19.17	19.17	19.08	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	21.34	21.36	21.28	22.00
		1	25	21.30	21.27	21.21	22.00
		1	49	21.39	21.36	21.30	22.00
		25	0	21.24	21.30	21.24	22.00
		25	13	21.30	21.27	21.24	22.00
		25	25	21.29	21.31	21.28	22.00
		50	0	21.33	21.31	21.25	22.00
	16QAM	1	0	21.58	21.60	21.63	22.00
		1	25	21.50	21.55	21.47	22.00
		1	49	21.71	21.64	21.59	22.00
		25	0	21.23	21.27	21.24	22.00
		25	13	21.29	21.25	21.22	22.00
		25	25	21.27	21.29	21.24	22.00
		50	0	21.29	21.29	21.27	22.00
	64QAM	1	0	21.54	21.54	21.50	22.00
		1	25	21.45	21.49	21.36	22.00
		1	49	21.62	21.57	21.49	22.00
		25	0	20.23	20.27	20.24	21.00
		25	13	20.27	20.23	20.22	21.00
		25	25	20.27	20.26	20.23	21.00
		50	0	20.27	20.27	20.24	21.00
	256QAM	1	0	20.38	20.30	20.22	21.00
		1	25	20.27	20.23	20.24	21.00
		1	49	20.52	20.29	20.41	21.00
		25	0	19.25	19.15	19.14	20.00
		25	13	18.99	19.03	19.10	20.00
		25	25	19.23	19.12	18.97	20.00
		50	0	19.09	19.29	19.06	20.00

LTE B25							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26047/1850.7	26365/1882.5	26683/1914.3	
1.4MHz	QPSK	1	0	23.53	23.30	23.08	24.00
		1	2	23.51	23.27	23.05	24.00
		1	5	23.53	23.27	23.05	24.00
		3	0	23.49	23.23	23.05	24.00
		3	2	23.49	23.23	23.06	24.00
		3	3	23.50	23.22	23.06	24.00
		6	0	22.52	22.26	22.12	23.00
	16QAM	1	0	22.74	22.59	22.34	23.00
		1	2	22.76	22.60	22.31	23.00
		1	5	22.75	22.58	22.32	23.00
		3	0	22.57	22.28	22.12	23.00
		3	2	22.53	22.26	22.12	23.00
		3	3	22.56	22.25	22.09	23.00
		6	0	21.54	21.32	21.18	22.00
	64QAM	1	0	21.70	21.50	21.22	22.00
		1	2	21.66	21.37	21.21	22.00
		1	5	21.65	21.41	21.23	22.00
		3	0	21.60	21.39	21.19	22.00
		3	2	21.62	21.37	21.20	22.00
		3	3	21.64	21.35	21.16	22.00
		6	0	20.49	20.23	20.05	21.00
	256QAM	1	0	20.68	20.38	20.13	21.00
		1	2	20.55	20.22	20.23	21.00
		1	5	20.28	20.43	20.15	21.00
		3	0	20.06	20.00	20.06	21.00
		3	2	20.42	20.02	20.12	21.00
		3	3	20.47	19.74	20.14	21.00
		6	0	19.16	19.30	19.01	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26055/1851.5	26365/1882.5	26675/1913.5	
3MHz	QPSK	1	0	23.50	23.28	23.17	24.00
		1	7	23.55	23.27	23.07	24.00
		1	14	23.49	23.27	23.09	24.00
		8	0	22.54	22.26	22.16	23.00
		8	4	22.54	22.24	22.12	23.00
		8	7	22.59	22.26	22.09	23.00
		15	0	22.56	22.28	22.11	23.00
	16QAM	1	0	22.80	22.57	22.34	23.00

		1	7	22.77	22.58	22.28	23.00
		1	14	22.77	22.56	22.27	23.00
		8	0	21.58	21.33	21.24	22.00
		8	4	21.61	21.31	21.18	22.00
		8	7	21.62	21.32	21.14	22.00
		15	0	21.57	21.27	21.13	22.00
	64QAM	1	0	21.66	21.47	21.28	22.00
		1	7	21.65	21.45	21.24	22.00
		1	14	21.68	21.45	21.22	22.00
		8	0	20.62	20.34	20.23	21.00
		8	4	20.59	20.32	20.14	21.00
		8	7	20.64	20.34	20.12	21.00
		15	0	20.56	20.22	20.09	21.00
	256QAM	1	0	20.50	20.26	20.23	21.00
		1	7	20.47	20.20	20.25	21.00
		1	14	20.18	20.21	20.01	21.00
		8	0	19.24	18.98	19.12	20.00
		8	4	19.42	19.04	19.26	20.00
		8	7	19.31	18.80	19.20	20.00
		15	0	19.26	19.26	19.05	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	23.56	23.35	23.24	24.00
		1	13	23.53	23.31	23.15	24.00
		1	24	23.51	23.35	23.12	24.00
		12	0	22.60	22.33	22.27	23.00
		12	6	22.61	22.34	22.20	23.00
		12	13	22.62	22.33	22.14	23.00
		25	0	22.63	22.35	22.23	23.00
	16QAM	1	0	22.80	22.62	22.49	23.00
		1	13	22.80	22.60	22.41	23.00
		1	24	22.73	22.58	22.34	23.00
		12	0	21.61	21.33	21.29	22.00
		12	6	21.59	21.33	21.22	22.00
		12	13	21.62	21.32	21.16	22.00
		25	0	21.61	21.33	21.21	22.00
	64QAM	1	0	21.75	21.53	21.41	22.00
		1	13	21.71	21.49	21.31	22.00
		1	24	21.73	21.49	21.25	22.00
		12	0	20.61	20.34	20.32	21.00
		12	6	20.62	20.34	20.25	21.00
		12	13	20.63	20.34	20.19	21.00
		25	0	20.55	20.30	20.22	21.00

	256QAM	1	0	20.42	20.48	20.15	21.00
		1	13	20.53	20.38	20.33	21.00
		1	24	20.28	20.05	20.23	21.00
		12	0	18.92	19.06	19.24	20.00
		12	6	19.04	19.40	19.12	20.00
		12	13	19.33	18.82	19.18	20.00
		25	0	19.06	19.42	19.21	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26090/1855	26365/1882.5	26640/1910	
10MHz	QPSK	1	0	23.60	23.43	23.42	24.00
		1	25	23.50	23.35	23.26	24.00
		1	49	23.54	23.34	23.19	24.00
		25	0	22.61	22.36	22.35	23.00
		25	13	22.63	22.34	22.30	23.00
		25	25	22.61	22.34	22.20	23.00
		50	0	22.60	22.36	22.32	23.00
	16QAM	1	0	22.85	22.66	22.63	23.00
		1	25	22.75	22.60	22.47	23.00
		1	49	22.73	22.57	22.35	23.00
		25	0	21.61	21.34	21.35	22.00
		25	13	21.62	21.34	21.32	22.00
		25	25	21.61	21.33	21.21	22.00
		50	0	21.60	21.33	21.29	22.00
	64QAM	1	0	21.75	21.58	21.53	22.00
		1	25	21.65	21.49	21.44	22.00
		1	49	21.65	21.51	21.28	22.00
		25	0	20.58	20.32	20.32	21.00
		25	13	20.58	20.30	20.29	21.00
		25	25	20.57	20.30	20.21	21.00
		50	0	20.56	20.30	20.29	21.00
	256QAM	1	0	20.50	20.38	20.45	21.00
		1	25	20.51	20.10	20.33	21.00
		1	49	20.18	20.31	20.05	21.00
		25	0	19.34	18.98	19.12	20.00
		25	13	19.44	19.28	19.20	20.00
		25	25	19.51	19.00	19.32	20.00
		50	0	19.20	19.14	18.97	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	23.63	23.40	23.38	24.00
		1	38	23.55	23.36	23.35	24.00
		1	74	23.52	23.29	23.22	24.00
		36	0	22.62	22.36	22.37	23.00

		36	18	22.59	22.35	22.34	23.00
		36	39	22.56	22.29	22.26	23.00
		75	0	22.63	22.34	22.35	23.00
		1	0	22.86	22.72	22.68	23.00
		1	38	22.74	22.64	22.65	23.00
		1	74	22.73	22.59	22.49	23.00
		36	0	21.62	21.33	21.39	22.00
		36	18	21.60	21.33	21.37	22.00
		36	39	21.57	21.30	21.25	22.00
	16QAM	75	0	21.62	21.34	21.34	22.00
		1	0	21.85	21.53	21.46	22.00
		1	38	21.72	21.46	21.43	22.00
		1	74	21.75	21.38	21.29	22.00
		36	0	20.63	20.35	20.37	21.00
		36	18	20.62	20.34	20.36	21.00
		36	39	20.59	20.32	20.27	21.00
		75	0	20.60	20.32	20.32	21.00
	64QAM	1	0	20.66	20.46	20.17	21.00
		1	38	20.65	20.22	20.53	21.00
		1	74	20.32	20.03	20.09	21.00
		36	0	19.28	19.22	19.00	20.00
		36	18	19.26	19.22	19.32	20.00
		36	39	19.53	19.14	19.08	20.00
		75	0	19.38	19.00	19.13	20.00
	256QAM	1	0	20.66	20.46	20.17	21.00
		1	38	20.65	20.22	20.53	21.00
		1	74	20.32	20.03	20.09	21.00
		36	0	19.28	19.22	19.00	20.00
		36	18	19.26	19.22	19.32	20.00
		36	39	19.53	19.14	19.08	20.00
		75	0	19.38	19.00	19.13	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26140/1860	26365/1882.5	26590/1905	
20MHz	QPSK	1	0	23.69	23.43	23.39	24.00
		1	50	23.58	23.36	23.37	24.00
		1	99	23.48	23.33	23.20	24.00
		50	0	22.68	22.38	22.45	23.00
		50	25	22.67	22.40	22.40	23.00
		50	50	22.58	22.34	22.35	23.00
		100	0	22.61	22.34	22.39	23.00
	16QAM	1	0	22.96	22.69	22.65	23.00
		1	50	22.84	22.62	22.66	23.00
		1	99	22.63	22.52	22.47	23.00
		50	0	21.69	21.37	21.45	22.00
		50	25	21.66	21.38	21.40	22.00
		50	50	21.59	21.37	21.33	22.00
		100	0	21.61	21.31	21.38	22.00
	64QAM	1	0	21.84	21.64	21.57	22.00
		1	50	21.77	21.56	21.53	22.00
		1	99	21.62	21.47	21.33	22.00

		50	0	20.66	20.34	20.42	21.00
		50	25	20.62	20.36	20.38	21.00
		50	50	20.55	20.32	20.34	21.00
		100	0	20.60	20.32	20.37	21.00
	256QAM	1	0	20.50	20.22	20.37	21.00
		1	50	20.69	20.10	20.47	21.00
		1	99	20.32	20.31	20.05	21.00
		50	0	19.20	19.04	19.18	20.00
		50	25	19.42	19.36	19.16	20.00
		50	50	19.53	19.14	19.04	20.00
		100	0	19.30	19.32	19.17	20.00

LTE B25							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26047/1850.7	26365/1882.5	26683/1914.3	
1.4MHz	QPSK	1	0	12.80	13.17	12.93	14.00
		1	2	12.63	12.49	12.25	14.00
		1	5	12.64	12.50	12.28	14.00
		3	0	12.64	12.46	12.28	14.00
		3	2	12.63	12.46	12.26	14.00
		3	3	12.67	12.45	12.24	14.00
		6	0	12.71	12.48	12.31	14.00
	16QAM	1	0	12.97	12.83	12.51	14.00
		1	2	12.94	12.83	12.52	14.00
		1	5	12.99	12.86	12.49	14.00
		3	0	12.69	12.57	12.35	14.00
		3	2	12.72	12.58	12.33	14.00
		3	3	12.76	12.57	12.30	14.00
		6	0	12.79	12.58	12.38	14.00
	64QAM	1	0	12.85	12.82	12.51	14.00
		1	2	12.81	12.75	12.47	14.00
		1	5	12.95	12.80	12.45	14.00
		3	0	12.79	12.62	12.41	14.00
		3	2	12.79	12.62	12.38	14.00
		3	3	12.82	12.61	12.39	14.00
		6	0	12.69	12.49	12.26	14.00
	256QAM	1	0	13.19	13.51	12.94	14.00
		1	2	13.35	13.31	13.33	14.00
		1	5	13.61	13.23	13.75	14.00
		3	0	13.30	13.01	13.15	14.00
		3	2	13.26	13.28	13.31	14.00
		3	3	13.39	13.08	13.15	14.00

		6	0	13.13	13.27	12.97	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26055/1851.5	26365/1882.5	26675/1913.5	
3MHz	QPSK	1	0	12.76	13.06	13.17	14.00
		1	7	12.67	12.51	12.28	14.00
		1	14	12.69	12.52	12.28	14.00
		8	0	12.66	12.51	12.36	14.00
		8	4	12.68	12.49	12.30	14.00
		8	7	12.71	12.52	12.31	14.00
		15	0	12.73	12.53	12.31	14.00
	16QAM	1	0	12.92	12.77	12.54	14.00
		1	7	12.99	12.77	12.50	14.00
		1	14	12.96	12.75	12.50	14.00
		8	0	12.77	12.57	12.41	14.00
		8	4	12.78	12.60	12.37	14.00
		8	7	12.80	12.59	12.36	14.00
		15	0	12.77	12.53	12.33	14.00
	64QAM	1	0	12.82	12.69	12.45	14.00
		1	7	12.89	12.70	12.42	14.00
		1	14	12.87	12.73	12.43	14.00
		8	0	12.75	12.60	12.44	14.00
		8	4	12.77	12.63	12.37	14.00
		8	7	12.80	12.62	12.36	14.00
		15	0	12.69	12.51	12.30	14.00
	256QAM	1	0	13.19	13.53	13.06	14.00
		1	7	13.43	13.09	13.27	14.00
		1	14	13.73	13.19	13.29	14.00
		8	0	13.12	13.15	13.01	14.00
		8	4	13.14	13.26	13.47	14.00
		8	7	13.63	13.34	13.29	14.00
		15	0	13.21	13.27	13.19	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	12.91	13.19	13.27	14.00
		1	13	12.67	12.51	12.36	14.00
		1	24	12.73	12.57	12.38	14.00
		12	0	12.75	12.55	12.45	14.00
		12	6	12.80	12.54	12.40	14.00
		12	13	12.83	12.56	12.34	14.00
		25	0	12.80	12.58	12.40	14.00
	16QAM	1	0	12.92	12.89	12.66	14.00
		1	13	12.95	12.85	12.60	14.00
		1	24	12.99	12.85	12.52	14.00

		12	0	12.73	12.59	12.45	14.00
		12	6	12.83	12.57	12.42	14.00
		12	13	12.85	12.60	12.38	14.00
		25	0	12.78	12.58	12.42	14.00
	64QAM	1	0	12.87	12.70	12.64	14.00
		1	13	12.85	12.73	12.50	14.00
		1	24	12.94	12.76	12.49	14.00
		12	0	12.78	12.61	12.49	14.00
		12	6	12.83	12.60	12.45	14.00
		12	13	12.86	12.61	12.40	14.00
		25	0	12.78	12.56	12.39	14.00
	256QAM	1	0	13.09	13.57	12.98	14.00
		1	13	13.41	13.47	13.51	14.00
		1	24	13.63	13.31	13.75	14.00
		12	0	13.36	13.17	13.31	14.00
		12	6	13.40	13.30	13.39	14.00
		12	13	13.63	13.04	13.37	14.00
		25	0	13.13	13.43	13.15	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26090/1855	26365/1882.5	26640/1910	
10MHz	QPSK	1	0	12.83	13.27	13.48	14.00
		1	25	12.71	12.53	12.43	14.00
		1	49	12.77	12.60	12.39	14.00
		25	0	12.72	12.55	12.55	14.00
		25	13	12.83	12.58	12.51	14.00
		25	25	12.81	12.61	12.47	14.00
		50	0	12.79	12.59	12.52	14.00
	16QAM	1	0	13.03	12.91	12.93	14.00
		1	25	13.02	12.84	12.79	14.00
		1	49	13.09	12.91	12.64	14.00
		25	0	12.69	12.53	12.55	14.00
		25	13	12.82	12.56	12.50	14.00
		25	25	12.80	12.60	12.47	14.00
		50	0	12.78	12.56	12.49	14.00
	64QAM	1	0	12.85	12.79	12.82	14.00
		1	25	12.93	12.71	12.69	14.00
		1	49	12.97	12.78	12.58	14.00
		25	0	12.70	12.55	12.49	14.00
		25	13	12.81	12.57	12.49	14.00
		25	25	12.79	12.59	12.46	14.00
		50	0	12.77	12.57	12.49	14.00
	256QAM	1	0	13.01	12.92	12.99	14.00
		1	25	12.97	12.65	12.94	14.00

		1	49	13.00	12.90	12.77	14.00
		25	0	12.97	12.41	12.72	14.00
		25	13	12.86	12.51	12.41	14.00
		25	25	12.95	12.75	12.89	14.00
		50	0	12.87	12.53	12.63	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	12.78	13.39	12.95	14.00
		1	38	12.67	12.52	12.52	14.00
		1	74	12.61	12.48	12.40	14.00
		36	0	12.82	12.56	12.53	14.00
		36	18	12.79	12.55	12.56	14.00
		36	39	12.72	12.55	12.48	14.00
		75	0	12.75	12.59	12.58	14.00
	16QAM	1	0	12.99	12.92	12.82	14.00
		1	38	12.98	12.89	12.83	14.00
		1	74	12.86	12.87	12.79	14.00
		36	0	12.74	12.54	12.56	14.00
		36	18	12.78	12.57	12.56	14.00
		36	39	12.73	12.58	12.52	14.00
		75	0	12.76	12.57	12.58	14.00
	64QAM	1	0	12.84	12.70	12.67	14.00
		1	38	12.97	12.69	12.56	14.00
		1	74	12.75	12.62	12.52	14.00
		36	0	12.82	12.59	12.53	14.00
		36	18	12.83	12.60	12.58	14.00
		36	39	12.76	12.60	12.52	14.00
		75	0	12.79	12.60	12.59	14.00
	256QAM	1	0	13.01	12.88	12.87	14.00
		1	38	13.11	12.75	12.94	14.00
		1	74	12.92	12.88	12.83	14.00
		36	0	12.85	12.59	12.86	14.00
		36	18	13.04	12.61	12.47	14.00
		36	39	12.99	12.75	12.69	14.00
		75	0	12.65	12.59	12.47	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26140/1860	26365/1882.5	26590/1905	
20MHz	QPSK	1	0	13.19	13.01	13.03	14.00
		1	50	12.77	12.63	12.53	14.00
		1	99	12.69	12.55	12.51	14.00
		50	0	13.00	12.58	12.72	14.00
		50	25	12.81	12.63	12.65	14.00
		50	50	12.71	12.63	12.67	14.00

		100	0	12.90	12.66	12.70	14.00
	16QAM	1	0	13.07	12.90	12.75	14.00
		1	50	12.96	12.89	12.78	14.00
		1	99	12.92	12.79	12.60	14.00
		50	0	12.84	12.54	12.69	14.00
		50	25	12.86	12.59	12.66	14.00
		50	50	12.76	12.62	12.64	14.00
		100	0	12.77	12.57	12.69	14.00
	64QAM	1	0	12.97	12.80	12.83	14.00
		1	50	12.91	12.83	12.84	14.00
		1	99	12.78	12.80	12.69	14.00
		50	0	12.87	12.53	12.76	14.00
		50	25	12.86	12.59	12.65	14.00
		50	50	12.75	12.61	12.63	14.00
		100	0	12.77	12.57	12.67	14.00
	256QAM	1	0	12.93	12.88	12.89	14.00
		1	50	12.97	12.77	12.94	14.00
		1	99	12.96	12.86	12.75	14.00
		50	0	12.89	12.51	12.88	14.00
		50	25	13.02	12.69	12.57	14.00
		50	50	12.81	12.65	12.67	14.00
		100	0	12.73	12.65	12.57	14.00

LTE B26							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	22.36	22.59	22.56	24.00
		1	2	22.70	22.55	22.51	24.00
		1	5	22.71	22.55	22.51	24.00
		3	0	22.73	22.54	22.54	24.00
		3	2	22.69	22.49	22.51	24.00
		3	3	22.71	22.51	22.52	24.00
		6	0	21.75	21.60	21.56	23.00
	16QAM	1	0	22.10	21.86	21.82	23.00
		1	2	21.98	21.82	21.79	23.00
		1	5	22.04	21.85	21.82	23.00
		3	0	21.73	21.55	21.52	23.00
		3	2	21.70	21.53	21.49	23.00
		3	3	21.73	21.53	21.50	23.00
		6	0	20.94	20.71	20.70	22.00
	64QAM	1	0	21.08	20.86	20.74	22.00
		1	2	21.01	20.75	20.72	22.00

		1	5	21.02	20.84	20.73	22.00
		3	0	20.97	20.79	20.76	22.00
		3	2	20.97	20.78	20.74	22.00
		3	3	20.99	20.77	20.73	22.00
		6	0	19.82	19.60	19.60	21.00
	256QAM	1	0	19.61	19.57	19.45	21.00
		1	2	19.66	19.77	19.90	21.00
		1	5	19.89	19.35	19.51	21.00
		3	0	19.23	19.09	19.40	21.00
		3	2	19.45	19.34	19.38	21.00
		3	3	19.13	19.16	19.16	21.00
		6	0	18.47	18.06	18.26	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	22.81	22.59	22.54	24.00
		1	7	22.66	22.52	22.50	24.00
		1	14	22.69	22.56	22.54	24.00
		8	0	21.76	21.55	21.57	23.00
		8	4	21.69	21.54	21.53	23.00
		8	7	21.69	21.55	21.56	23.00
		15	0	21.73	21.59	21.56	23.00
	16QAM	1	0	22.06	21.84	21.84	23.00
		1	7	21.95	21.78	21.73	23.00
		1	14	21.94	21.78	21.74	23.00
		8	0	20.90	20.73	20.72	22.00
		8	4	20.92	20.70	20.70	22.00
		8	7	20.92	20.71	20.69	22.00
		15	0	20.86	20.64	20.63	22.00
	64QAM	1	0	21.10	20.82	20.84	22.00
		1	7	21.08	20.80	20.80	22.00
		1	14	21.03	20.78	20.81	22.00
		8	0	19.89	19.72	19.90	21.00
		8	4	19.89	19.68	19.70	21.00
		8	7	19.92	19.73	19.82	21.00
		15	0	19.80	19.64	19.75	21.00
	256QAM	1	0	19.67	19.59	19.45	21.00
		1	7	19.62	19.81	19.72	21.00
		1	14	19.69	19.31	19.57	21.00
		8	0	18.49	18.33	18.46	20.00
		8	4	18.55	18.36	18.48	20.00
		8	7	18.27	18.22	18.48	20.00
		15	0	18.63	18.22	18.36	20.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	22.81	22.65	22.61	24.00
		1	13	22.68	22.61	22.55	24.00
		1	24	22.75	22.62	22.56	24.00
		12	0	21.75	21.60	21.63	23.00
		12	6	21.74	21.60	21.61	23.00
		12	13	21.75	21.61	21.57	23.00
		25	0	21.80	21.61	21.64	23.00
	16QAM	1	0	22.15	21.87	21.89	23.00
		1	13	21.98	21.82	21.83	23.00
		1	24	22.04	21.83	21.86	23.00
		12	0	20.87	20.72	20.74	22.00
		12	6	20.86	20.70	20.69	22.00
		12	13	20.87	20.68	20.68	22.00
		25	0	20.87	20.68	20.69	22.00
	64QAM	1	0	21.03	20.87	20.83	22.00
		1	13	21.01	20.81	20.80	22.00
		1	24	21.00	20.81	20.79	22.00
		12	0	19.88	19.70	19.77	21.00
		12	6	19.87	19.71	19.72	21.00
		12	13	19.88	19.69	19.71	21.00
		25	0	19.84	19.68	19.67	21.00
	256QAM	1	0	19.73	19.51	19.43	21.00
		1	13	19.48	19.55	19.80	21.00
		1	24	19.71	19.59	19.77	21.00
		12	0	18.43	18.37	18.18	20.00
		12	6	18.31	18.20	18.48	20.00
		12	13	18.45	18.30	18.32	20.00
		25	0	18.69	18.44	18.28	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26740/819	26865/831.5	26990/844	
10MHz	QPSK	1	0	22.83	22.73	22.63	24.00
		1	25	22.77	22.62	22.60	24.00
		1	49	22.83	22.63	22.63	24.00
		25	0	21.76	21.63	21.67	23.00
		25	13	21.78	21.61	21.65	23.00
		25	25	21.76	21.64	21.62	23.00
		50	0	21.76	21.65	21.66	23.00
	16QAM	1	0	22.10	22.00	21.95	23.00
		1	25	22.05	21.87	21.91	23.00
		1	49	22.12	21.93	21.98	23.00
		25	0	20.82	20.66	20.71	22.00

		25	13	20.80	20.66	20.68	22.00
		25	25	20.78	20.66	20.65	22.00
		50	0	20.79	20.67	20.71	22.00
	64QAM	1	0	21.09	20.95	20.83	22.00
		1	25	20.97	20.79	20.81	22.00
		1	49	20.95	20.87	20.85	22.00
		25	0	19.82	19.67	19.70	21.00
		25	13	19.77	19.64	19.68	21.00
		25	25	19.75	19.66	19.67	21.00
		50	0	19.76	19.64	19.71	21.00
		1	0	19.89	19.37	19.49	21.00
	256QAM	1	25	19.44	19.53	19.56	21.00
		1	49	19.67	19.37	19.75	21.00
		25	0	18.41	18.33	18.42	20.00
		25	13	18.47	18.20	18.56	20.00
		25	25	18.27	18.28	18.54	20.00
		50	0	18.59	18.14	18.46	20.00
		1	0	19.89	19.37	19.49	21.00
		1	25	19.44	19.53	19.56	21.00
		1	49	19.67	19.37	19.75	21.00
		25	0	18.41	18.33	18.42	20.00
		25	13	18.47	18.20	18.56	20.00
		25	25	18.27	18.28	18.54	20.00
		50	0	18.59	18.14	18.46	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26765/821.5	26865/831.5	26965/841.5	
15MHz	QPSK	1	0	22.77	22.73	22.59	24.00
		1	38	22.79	22.65	22.63	24.00
		1	74	22.74	22.63	22.62	24.00
		36	0	21.74	21.64	21.55	23.00
		36	18	21.70	21.58	21.58	23.00
		36	39	21.71	21.59	21.61	23.00
		75	0	21.76	21.62	21.64	23.00
	16QAM	1	0	22.10	22.04	21.88	23.00
		1	38	22.06	21.97	21.91	23.00
		1	74	22.06	21.94	21.91	23.00
		36	0	20.80	20.69	20.63	22.00
		36	18	20.76	20.67	20.64	22.00
		36	39	20.73	20.66	20.65	22.00
		75	0	20.76	20.68	20.69	22.00
	64QAM	1	0	21.03	20.87	20.81	22.00
		1	38	20.88	20.87	20.82	22.00
		1	74	20.89	20.83	20.83	22.00
		36	0	19.79	19.69	19.64	21.00
		36	18	19.75	19.64	19.64	21.00
		36	39	19.73	19.66	19.64	21.00
		75	0	19.73	19.64	19.66	21.00
	256QAM	1	0	19.71	19.47	19.37	21.00
		1	38	19.54	19.65	19.66	21.00
		1	74	19.69	19.41	19.63	21.00

		36	0	18.39	18.27	18.32	20.00
		36	18	18.43	18.26	18.40	20.00
		36	39	18.31	18.32	18.48	20.00
		75	0	18.57	18.22	18.32	20.00

LTE B26							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	17.87	17.67	17.62	19.00
		1	2	17.86	17.65	17.59	19.00
		1	5	17.86	17.66	17.59	19.00
		3	0	17.86	17.61	17.59	19.00
		3	2	17.84	17.61	17.59	19.00
		3	3	17.84	17.61	17.59	19.00
		6	0	17.84	17.66	17.61	19.00
	16QAM	1	0	18.18	17.98	17.93	19.00
		1	2	18.20	17.98	17.95	19.00
		1	5	18.18	17.98	17.98	19.00
		3	0	17.84	17.59	17.65	19.00
		3	2	17.82	17.61	17.59	19.00
		3	3	17.83	17.59	17.62	19.00
		6	0	17.91	17.68	17.72	19.00
	64QAM	1	0	18.00	17.84	17.84	19.00
		1	2	17.97	17.80	17.82	19.00
		1	5	17.98	17.80	17.84	19.00
		3	0	17.96	17.80	17.75	19.00
		3	2	17.95	17.80	17.77	19.00
		3	3	18.00	17.80	17.75	19.00
		6	0	17.86	17.61	17.65	19.00
	256QAM	1	0	18.05	17.84	18.01	19.00
		1	2	18.02	17.77	18.04	19.00
		1	5	18.05	17.85	17.80	19.00
		3	0	17.79	17.42	17.59	19.00
		3	2	17.60	18.05	18.00	19.00
		3	3	17.83	17.84	18.00	19.00
		6	0	18.03	17.62	17.84	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	17.88	17.67	17.63	19.00
		1	7	17.86	17.67	17.62	19.00
		1	14	17.84	17.62	17.59	19.00
		8	0	17.84	17.64	17.67	19.00

		8	4	17.84	17.65	17.64	19.00
		8	7	17.87	17.65	17.64	19.00
		15	0	17.88	17.66	17.65	19.00
	16QAM	1	0	18.13	17.92	17.92	19.00
		1	7	18.09	17.88	17.90	19.00
		1	14	18.09	17.87	17.90	19.00
		8	0	17.93	17.73	17.74	19.00
		8	4	17.91	17.70	17.71	19.00
		8	7	17.93	17.74	17.71	19.00
		15	0	17.91	17.68	17.67	19.00
	64QAM	1	0	18.05	17.81	17.84	19.00
		1	7	18.07	17.82	17.83	19.00
		1	14	18.06	17.77	17.80	19.00
		8	0	17.93	17.74	17.75	19.00
		8	4	17.93	17.72	17.70	19.00
		8	7	17.93	17.73	17.72	19.00
		15	0	17.82	17.67	17.66	19.00
	256QAM	1	0	18.03	17.78	17.63	19.00
		1	7	17.80	17.97	17.66	19.00
		1	14	18.13	18.03	17.74	19.00
		8	0	17.81	17.70	17.59	19.00
		8	4	17.74	17.67	17.68	19.00
		8	7	17.67	17.66	17.54	19.00
		15	0	17.71	17.50	17.68	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	17.92	17.73	17.68	19.00
		1	13	17.87	17.70	17.66	19.00
		1	24	17.88	17.68	17.66	19.00
		12	0	17.88	17.71	17.73	19.00
		12	6	17.87	17.70	17.71	19.00
		12	13	17.89	17.71	17.68	19.00
		25	0	17.90	17.73	17.73	19.00
	16QAM	1	0	18.21	17.96	17.96	19.00
		1	13	18.11	17.96	17.93	19.00
		1	24	18.11	17.97	17.99	19.00
		12	0	17.90	17.73	17.75	19.00
		12	6	17.89	17.72	17.72	19.00
		12	13	17.90	17.71	17.72	19.00
		25	0	17.89	17.68	17.73	19.00
	64QAM	1	0	18.12	17.90	17.89	19.00
		1	13	18.04	17.87	17.86	19.00
		1	24	18.12	17.83	17.84	19.00

		12	0	17.93	17.74	17.79	19.00
		12	6	17.92	17.75	17.74	19.00
		12	13	17.93	17.75	17.73	19.00
		25	0	17.89	17.70	17.74	19.00
	256QAM	1	0	18.19	17.90	17.75	19.00
		1	13	17.90	17.95	17.92	19.00
		1	24	18.15	17.89	17.96	19.00
		12	0	17.97	17.80	17.59	19.00
		12	6	17.84	17.83	17.82	19.00
		12	13	17.89	17.86	17.72	19.00
		25	0	17.77	17.60	17.70	19.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26740/819	26865/831.5	26990/844	
10MHz	QPSK	1	0	17.96	17.82	17.74	19.00
		1	25	17.83	17.67	17.68	19.00
		1	49	17.84	17.79	17.77	19.00
		25	0	17.86	17.72	17.77	19.00
		25	13	17.84	17.71	17.75	19.00
		25	25	17.82	17.73	17.71	19.00
		50	0	17.83	17.73	17.75	19.00
	16QAM	1	0	18.24	18.13	18.06	19.00
		1	25	18.12	17.99	18.00	19.00
		1	49	18.12	18.08	18.12	19.00
		25	0	17.83	17.71	17.74	19.00
		25	13	17.80	17.68	17.72	19.00
		25	25	17.81	17.72	17.72	19.00
		50	0	17.82	17.72	17.75	19.00
	64QAM	1	0	18.14	17.96	17.87	19.00
		1	25	17.98	17.80	17.86	19.00
		1	49	18.02	17.89	17.92	19.00
		25	0	17.86	17.70	17.75	19.00
		25	13	17.80	17.67	17.73	19.00
		25	25	17.80	17.72	17.71	19.00
		50	0	17.81	17.70	17.73	19.00
	256QAM	1	0	17.97	17.86	17.93	19.00
		1	25	18.04	17.97	17.70	19.00
		1	49	18.25	17.91	17.82	19.00
		25	0	17.85	17.90	17.87	19.00
		25	13	17.82	17.53	17.70	19.00
		25	25	17.73	17.62	17.80	19.00
		50	0	17.73	17.86	17.66	19.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				26765/821.5	26865/831.5	26965/841.5	
15MHz	QPSK	1	0	17.87	17.70	17.59	19.00
		1	38	17.74	17.68	17.65	19.00
		1	74	17.84	17.68	17.68	19.00
		36	0	17.83	17.71	17.65	19.00
		36	18	17.75	17.68	17.66	19.00
		36	39	17.75	17.70	17.68	19.00
		75	0	17.79	17.68	17.67	19.00
	16QAM	1	0	18.17	18.02	17.95	19.00
		1	38	18.08	18.02	18.00	19.00
		1	74	18.12	18.00	18.02	19.00
		36	0	17.83	17.70	17.65	19.00
		36	18	17.75	17.68	17.66	19.00
		36	39	17.77	17.70	17.68	19.00
		75	0	17.80	17.68	17.71	19.00
	64QAM	1	0	18.11	17.92	17.79	19.00
		1	38	17.96	17.91	17.84	19.00
		1	74	18.05	17.93	17.88	19.00
		36	0	17.83	17.70	17.67	19.00
		36	18	17.80	17.71	17.68	19.00
		36	39	17.77	17.72	17.70	19.00
		75	0	17.77	17.68	17.70	19.00
	256QAM	1	0	17.99	17.86	17.91	19.00
		1	38	17.94	17.79	17.84	19.00
		1	74	18.21	18.03	17.96	19.00
		36	0	17.99	17.60	17.67	19.00
		36	18	17.72	17.73	17.64	19.00
		36	39	17.65	17.64	17.78	19.00
		75	0	17.81	17.66	17.64	19.00

LTE B38							
Pmax&Sensor off--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	22.95	22.58	22.51	24.00
		1	13	22.93	22.56	22.54	24.00
		1	24	22.96	22.54	22.65	24.00
		12	0	21.97	21.57	21.55	23.00
		12	6	21.96	21.52	21.56	23.00
		12	13	21.97	21.53	21.59	23.00
		25	0	21.99	21.56	21.59	23.00
	16QAM	1	0	21.94	21.62	21.55	23.00

		1	13	21.95	21.61	21.59	23.00
		1	24	21.98	21.61	21.71	23.00
		12	0	20.93	20.57	20.52	22.00
		12	6	20.93	20.53	20.51	22.00
		12	13	20.95	20.55	20.56	22.00
		25	0	21.00	20.60	20.60	22.00
	64QAM	1	0	20.76	20.39	20.30	22.00
		1	13	20.73	20.35	20.30	22.00
		1	24	20.75	20.34	20.42	22.00
		12	0	20.11	19.68	19.64	21.00
		12	6	20.05	19.64	19.64	21.00
		12	13	20.03	19.66	19.64	21.00
		25	0	20.10	19.70	19.67	21.00
	256QAM	1	0	20.31	19.99	19.45	21.00
		1	13	20.31	19.65	19.68	21.00
		1	24	20.06	19.59	19.68	21.00
		12	0	18.86	18.61	18.66	20.00
		12	6	18.85	18.43	18.63	20.00
		12	13	18.95	18.47	18.64	20.00
		25	0	18.78	18.79	18.58	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.93	22.62	22.54	24.00
		1	25	22.88	22.59	22.51	24.00
		1	49	22.92	22.57	22.69	24.00
		25	0	21.99	21.60	21.53	23.00
		25	13	21.93	21.56	21.53	23.00
		25	25	21.95	21.58	21.58	23.00
		50	0	21.96	21.56	21.55	23.00
	16QAM	1	0	22.01	21.70	21.62	23.00
		1	25	21.99	21.66	21.58	23.00
		1	49	21.99	21.66	21.73	23.00
		25	0	20.99	20.60	20.52	22.00
		25	13	20.93	20.55	20.51	22.00
		25	25	20.94	20.58	20.58	22.00
		50	0	20.97	20.57	20.54	22.00
	64QAM	1	0	20.72	20.41	20.30	22.00
		1	25	20.71	20.36	20.25	22.00
		1	49	20.73	20.35	20.45	22.00
		25	0	20.07	19.69	19.61	21.00
		25	13	20.04	19.66	19.61	21.00
		25	25	20.05	19.69	19.64	21.00
		50	0	20.03	19.67	19.59	21.00

	256QAM	1	0	20.01	19.73	19.37	21.00
		1	25	20.05	19.57	19.70	21.00
		1	49	19.90	19.87	19.70	21.00
		25	0	18.96	18.53	18.40	20.00
		25	13	18.55	18.49	18.63	20.00
		25	25	19.13	18.39	18.48	20.00
		50	0	18.66	18.59	18.68	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	22.95	22.69	22.53	24.00
		1	38	22.94	22.63	22.54	24.00
		1	74	22.89	22.59	22.68	24.00
		36	0	21.98	21.61	21.51	23.00
		36	18	21.94	21.54	21.51	23.00
		36	39	21.92	21.55	21.55	23.00
		75	0	21.98	21.63	21.55	23.00
	16QAM	1	0	22.04	21.80	21.58	23.00
		1	38	22.02	21.71	21.61	23.00
		1	74	21.98	21.69	21.77	23.00
		36	0	20.93	20.59	20.48	22.00
		36	18	20.88	20.51	20.48	22.00
		36	39	20.89	20.52	20.53	22.00
		75	0	21.02	20.66	20.58	22.00
	64QAM	1	0	20.80	20.50	20.30	22.00
		1	38	20.76	20.42	20.32	22.00
		1	74	20.72	20.38	20.48	22.00
		36	0	20.03	19.69	19.57	21.00
		36	18	20.00	19.63	19.57	21.00
		36	39	19.97	19.60	19.63	21.00
		75	0	20.05	19.69	19.62	21.00
	256QAM	1	0	20.23	19.93	19.57	21.00
		1	38	20.07	19.55	19.64	21.00
		1	74	19.94	19.53	19.76	21.00
		36	0	18.72	18.63	18.64	20.00
		36	18	18.83	18.63	18.45	20.00
		36	39	18.95	18.59	18.40	20.00
		75	0	18.76	18.65	18.56	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	22.97	22.77	22.52	24.00
		1	50	22.89	22.64	22.55	24.00
		1	99	22.77	22.63	22.64	24.00
		50	0	22.04	21.71	21.54	23.00

		50	25	21.97	21.63	21.58	23.00
		50	50	21.88	21.61	21.61	23.00
		100	0	21.95	21.66	21.56	23.00
	16QAM	1	0	22.06	21.85	21.59	23.00
		1	50	21.96	21.74	21.62	23.00
		1	99	21.87	21.73	21.74	23.00
		50	0	21.03	20.71	20.57	22.00
		50	25	20.96	20.63	20.58	22.00
		50	50	20.89	20.62	20.62	22.00
		100	0	20.96	20.66	20.59	22.00
	64QAM	1	0	20.79	20.56	20.30	22.00
		1	50	20.73	20.41	20.39	22.00
		1	99	20.54	20.41	20.42	22.00
		50	0	20.09	19.77	19.59	21.00
		50	25	20.05	19.73	19.62	21.00
		50	50	19.94	19.69	19.64	21.00
		100	0	19.98	19.73	19.60	21.00
	256QAM	1	0	20.19	19.89	19.53	21.00
		1	50	20.19	19.65	19.70	21.00
		1	99	20.02	19.65	19.70	21.00
		50	0	18.80	18.49	18.50	20.00
		50	25	18.73	18.45	18.55	20.00
		50	50	19.01	18.41	18.48	20.00
		100	0	18.84	18.65	18.64	20.00

LTE B38							
Sensor on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	16.98	16.65	16.64	17.50
		1	13	16.93	16.57	16.56	17.50
		1	24	16.93	16.61	16.59	17.50
		12	0	17.02	16.62	16.58	17.50
		12	6	16.95	16.59	16.60	17.50
		12	13	16.94	16.60	16.60	17.50
		25	0	16.99	16.61	16.61	17.50
	16QAM	1	0	16.99	16.64	16.60	17.50
		1	13	16.93	16.63	16.60	17.50
		1	24	16.99	16.68	16.64	17.50
		12	0	16.98	16.61	16.57	17.50
		12	6	16.93	16.57	16.57	17.50
		12	13	16.92	16.58	16.57	17.50
		25	0	17.00	16.64	16.63	17.50

	64QAM	1	0	16.76	16.38	16.35	17.50
		1	13	16.69	16.35	16.34	17.50
		1	24	16.73	16.39	16.39	17.50
		12	0	17.00	16.65	16.61	17.50
		12	6	16.97	16.61	16.60	17.50
		12	13	16.98	16.61	16.59	17.50
		25	0	17.00	16.63	16.64	17.50
	256QAM	1	0	16.57	16.45	16.21	17.50
		1	13	16.86	16.58	16.08	17.50
		1	24	16.44	16.40	16.43	17.50
		12	0	16.97	16.55	16.59	17.50
		12	6	16.90	16.67	16.60	17.50
		12	13	17.04	16.73	16.76	17.50
		25	0	16.78	16.68	16.47	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	16.97	16.71	16.63	17.50
		1	25	16.86	16.53	16.48	17.50
		1	49	16.94	16.58	16.59	17.50
		25	0	16.96	16.61	16.56	17.50
		25	13	16.92	16.56	16.56	17.50
		25	25	16.95	16.56	16.58	17.50
		50	0	16.94	16.60	16.56	17.50
	16QAM	1	0	17.00	16.71	16.61	17.50
		1	25	16.94	16.59	16.54	17.50
		1	49	17.00	16.68	16.65	17.50
		25	0	16.97	16.60	16.56	17.50
		25	13	16.92	16.56	16.55	17.50
		25	25	16.95	16.59	16.59	17.50
		50	0	16.94	16.61	16.57	17.50
	64QAM	1	0	16.75	16.44	16.35	17.50
		1	25	16.65	16.34	16.31	17.50
		1	49	16.73	16.36	16.38	17.50
		25	0	16.97	16.62	16.57	17.50
		25	13	16.93	16.59	16.57	17.50
		25	25	16.97	16.60	16.60	17.50
		50	0	16.94	16.60	16.56	17.50
	256QAM	1	0	16.73	16.63	16.21	17.50
		1	25	16.62	16.32	16.32	17.50
		1	49	16.64	16.56	16.31	17.50
		25	0	17.01	16.63	16.59	17.50
		25	13	17.02	16.71	16.62	17.50
		25	25	16.76	16.69	16.66	17.50

		50	0	17.00	16.80	16.73	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	16.93	16.79	16.59	17.50
		1	38	16.95	16.61	16.55	17.50
		1	74	16.82	16.58	16.60	17.50
		36	0	16.92	16.63	16.54	17.50
		36	18	16.91	16.59	16.54	17.50
		36	39	16.86	16.57	16.59	17.50
		75	0	16.93	16.64	16.57	17.50
	16QAM	1	0	16.99	16.79	16.56	17.50
		1	38	17.04	16.67	16.60	17.50
		1	74	16.93	16.64	16.67	17.50
		36	0	16.91	16.61	16.47	17.50
		36	18	16.88	16.55	16.51	17.50
		36	39	16.84	16.54	16.53	17.50
		75	0	16.97	16.66	16.58	17.50
	64QAM	1	0	16.73	16.52	16.31	17.50
		1	38	16.73	16.38	16.33	17.50
		1	74	16.64	16.34	16.39	17.50
		36	0	16.94	16.61	16.52	17.50
		36	18	16.91	16.56	16.52	17.50
		36	39	16.88	16.56	16.55	17.50
		75	0	16.95	16.64	16.56	17.50
	256QAM	1	0	16.59	16.71	16.27	17.50
		1	38	16.76	16.44	16.48	17.50
		1	74	16.78	16.44	16.31	17.50
		36	0	17.17	16.73	16.61	17.50
		36	18	16.84	16.73	16.44	17.50
		36	39	16.96	16.65	16.54	17.50
		75	0	16.74	16.66	16.61	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	16.94	16.83	16.57	17.50
		1	50	16.89	16.60	16.52	17.50
		1	99	16.79	16.60	16.61	17.50
		50	0	17.01	16.72	16.56	17.50
		50	25	16.95	16.68	16.60	17.50
		50	50	16.85	16.62	16.62	17.50
		100	0	16.93	16.67	16.57	17.50
	16QAM	1	0	17.04	16.82	16.59	17.50
		1	50	16.94	16.69	16.58	17.50
		1	99	16.84	16.67	16.70	17.50

		50	0	16.98	16.71	16.57	17.50
		50	25	16.95	16.65	16.59	17.50
		50	50	16.84	16.62	16.62	17.50
		100	0	16.92	16.66	16.58	17.50
	64QAM	1	0	16.75	16.55	16.29	17.50
		1	50	16.70	16.40	16.30	17.50
		1	99	16.58	16.40	16.41	17.50
		50	0	16.99	16.69	16.55	17.50
		50	25	16.94	16.65	16.58	17.50
		50	50	16.84	16.61	16.60	17.50
		100	0	16.90	16.64	16.57	17.50
	256QAM	1	0	16.77	16.43	16.41	17.50
		1	50	16.84	16.32	16.30	17.50
		1	99	16.70	16.48	16.53	17.50
		50	0	16.87	16.73	16.65	17.50
		50	25	17.06	16.69	16.76	17.50
		50	50	16.82	16.73	16.60	17.50
		100	0	16.98	16.68	16.65	17.50

LTE B38							
WWAN+WLAN Sensor on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	14.54	14.31	13.97	15.00
		1	13	14.39	14.08	14.02	15.00
		1	24	14.31	13.88	14.21	15.00
		12	0	14.45	14.22	13.90	15.00
		12	6	14.31	13.84	13.80	15.00
		12	13	14.43	13.98	14.14	15.00
		25	0	14.43	14.07	13.95	15.00
	16QAM	1	0	14.20	14.06	13.95	15.00
		1	13	14.34	14.09	14.18	15.00
		1	24	14.38	14.27	14.08	15.00
		12	0	14.28	13.87	13.93	15.00
		12	6	14.35	14.19	14.17	15.00
		12	13	14.22	14.02	14.10	15.00
		25	0	14.50	14.16	13.82	15.00
	64QAM	1	0	14.35	14.03	13.73	15.00
		1	13	13.90	13.80	13.54	15.00
		1	24	13.90	13.80	13.81	15.00
		12	0	14.37	14.31	14.09	15.00
		12	6	14.40	14.23	13.96	15.00
		12	13	14.28	14.07	13.98	15.00

		25	0	14.30	14.14	14.15	15.00
	256QAM	1	0	14.25	13.71	13.85	15.00
		1	13	14.24	13.76	13.74	15.00
		1	24	14.00	14.04	13.91	15.00
		12	0	14.17	13.97	13.95	15.00
		12	6	14.56	14.09	14.04	15.00
		12	13	14.36	14.17	13.96	15.00
		25	0	14.32	14.04	14.03	15.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	14.48	14.37	14.07	15.00
		1	25	14.29	14.14	13.88	15.00
		1	49	14.13	14.02	14.19	15.00
		25	0	14.39	13.90	13.84	15.00
		25	13	14.39	13.86	13.70	15.00
		25	25	14.51	14.18	14.20	15.00
		50	0	14.47	13.99	14.01	15.00
	16QAM	1	0	14.44	14.12	14.03	15.00
		1	25	14.30	14.09	14.08	15.00
		1	49	14.40	13.99	14.04	15.00
		25	0	14.42	13.89	14.07	15.00
		25	13	14.33	14.11	13.97	15.00
		25	25	14.04	14.24	13.90	15.00
		50	0	14.32	14.16	13.78	15.00
	64QAM	1	0	14.17	13.83	13.81	15.00
		1	25	14.04	13.88	13.52	15.00
		1	49	13.94	13.80	13.77	15.00
		25	0	14.45	14.09	13.93	15.00
		25	13	14.32	14.29	13.76	15.00
		25	25	14.46	14.11	13.90	15.00
		50	0	14.42	14.34	14.13	15.00
	256QAM	1	0	14.47	13.93	13.97	15.00
		1	25	14.16	13.64	13.58	15.00
		1	49	14.00	14.08	14.01	15.00
		25	0	14.09	13.97	13.75	15.00
		25	13	14.44	14.29	13.94	15.00
		25	25	14.20	14.09	13.96	15.00
		50	0	14.38	13.80	13.93	15.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	14.46	14.09	14.07	15.00
		1	38	14.41	14.24	13.80	15.00
		1	74	14.17	13.92	14.25	15.00

		36	0	14.43	14.18	13.92	15.00
		36	18	14.43	13.94	13.80	15.00
		36	39	14.31	14.22	14.06	15.00
		75	0	14.49	14.09	13.95	15.00
	16QAM	1	0	14.26	13.92	13.91	15.00
		1	38	14.44	14.11	14.02	15.00
		1	74	14.40	14.31	14.16	15.00
		36	0	14.20	14.07	14.15	15.00
		36	18	14.29	14.15	13.93	15.00
		36	39	14.18	14.00	14.14	15.00
		75	0	14.54	14.10	14.06	15.00
	64QAM	1	0	14.33	13.91	13.73	15.00
		1	38	14.14	13.74	13.64	15.00
		1	74	13.92	13.90	14.07	15.00
		36	0	14.45	14.09	14.03	15.00
		36	18	14.24	14.29	13.96	15.00
		36	39	14.34	14.17	13.82	15.00
		75	0	14.30	14.14	14.21	15.00
	256QAM	1	0	14.43	13.95	13.77	15.00
		1	38	14.10	13.70	13.76	15.00
		1	74	13.90	14.12	13.89	15.00
		36	0	14.07	14.11	14.07	15.00
		36	18	14.66	14.17	14.24	15.00
		36	39	14.40	14.15	13.94	15.00
		75	0	14.14	13.88	14.23	15.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	14.40	14.17	13.97	15.00
		1	50	14.27	14.06	13.90	15.00
		1	99	14.23	13.96	14.13	15.00
		50	0	14.33	14.06	13.86	15.00
		50	25	14.31	13.94	13.88	15.00
		50	50	14.35	14.04	14.14	15.00
		100	0	14.31	14.01	13.85	15.00
	16QAM	1	0	14.28	14.04	13.95	15.00
		1	50	14.40	14.01	14.06	15.00
		1	99	14.32	14.13	14.12	15.00
		50	0	14.24	13.95	13.97	15.00
		50	25	14.37	14.11	14.01	15.00
		50	50	14.08	14.08	14.02	15.00
		100	0	14.38	14.08	13.90	15.00
	64QAM	1	0	14.21	13.91	13.75	15.00
		1	50	14.00	13.76	13.64	15.00

		1	99	13.94	13.78	13.91	15.00
		50	0	14.37	14.17	14.01	15.00
		50	25	14.36	14.15	13.84	15.00
		50	50	14.32	14.11	13.94	15.00
		100	0	14.32	14.14	14.07	15.00
	256QAM	1	0	14.25	13.77	13.85	15.00
		1	50	14.22	13.76	13.62	15.00
		1	99	13.98	14.00	13.93	15.00
		50	0	14.13	13.99	13.89	15.00
		50	25	14.58	14.17	14.06	15.00
		50	50	14.26	14.25	13.82	15.00
		100	0	14.26	13.94	14.09	15.00

LTE B41 PC3									
Pmax&Sensor off--Main Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	22.51	22.80	22.71	22.25	22.27	24.00
		1	13	22.53	22.80	22.67	22.22	22.20	24.00
		1	24	22.60	22.81	22.65	22.26	22.22	24.00
		12	0	21.55	21.88	21.73	21.31	21.28	23.00
		12	6	21.57	21.86	21.70	21.25	21.23	23.00
		12	13	21.61	21.88	21.67	21.30	21.22	23.00
		25	0	21.62	21.90	21.70	21.33	21.28	23.00
	16QAM	1	0	21.56	21.86	21.78	21.34	21.34	23.00
		1	13	21.61	21.85	21.73	21.31	21.27	23.00
		1	24	21.70	21.88	21.73	21.36	21.31	23.00
		12	0	20.53	20.84	20.71	20.29	20.28	22.00
		12	6	20.56	20.82	20.67	20.23	20.23	22.00
		12	13	20.63	20.83	20.64	20.26	20.22	22.00
		25	0	20.62	20.88	20.71	20.30	20.30	22.00
	64QAM	1	0	20.28	20.60	20.50	20.05	20.09	22.00
		1	13	20.30	20.59	20.45	20.05	20.03	22.00
		1	24	20.42	20.64	20.43	20.05	20.05	22.00
		12	0	19.64	19.94	19.76	19.39	19.32	21.00
		12	6	19.69	19.94	19.72	19.32	19.28	21.00
		12	13	19.70	19.95	19.69	19.37	19.28	21.00
		25	0	19.68	19.95	19.78	19.38	19.30	21.00
	256QAM	1	0	19.60	19.59	19.58	19.03	19.18	21.00
		1	13	19.43	19.81	19.37	19.36	19.05	21.00
		1	24	19.77	19.90	19.34	19.05	19.03	21.00
		12	0	18.54	18.81	18.62	18.51	18.21	20.00

		12	6	18.69	19.04	18.86	18.30	18.12	20.00
		12	13	18.99	18.97	18.61	18.54	18.05	20.00
		25	0	18.82	18.85	18.58	18.10	18.36	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	22.53	22.82	22.78	22.37	22.33	24.00
		1	25	22.56	22.81	22.66	22.26	22.27	24.00
		1	49	22.78	22.88	22.67	22.30	22.28	24.00
		25	0	21.61	21.88	21.75	21.34	21.31	23.00
		25	13	21.60	21.84	21.67	21.28	21.25	23.00
		25	25	21.73	21.87	21.67	21.34	21.22	23.00
		50	0	21.65	21.88	21.72	21.32	21.29	23.00
	16QAM	1	0	21.59	21.89	21.84	21.43	21.38	23.00
		1	25	21.67	21.88	21.74	21.34	21.30	23.00
		1	49	21.87	21.95	21.74	21.37	21.32	23.00
		25	0	20.61	20.87	20.75	20.34	20.32	22.00
		25	13	20.64	20.83	20.67	20.27	20.27	22.00
		25	25	20.75	20.88	20.67	20.30	20.23	22.00
		50	0	20.67	20.88	20.73	20.32	20.29	22.00
	64QAM	1	0	20.30	20.64	20.56	20.13	20.12	22.00
		1	25	20.37	20.60	20.45	20.04	20.03	22.00
		1	49	20.58	20.68	20.44	20.07	20.05	22.00
		25	0	19.64	19.89	19.77	19.38	19.34	21.00
		25	13	19.69	19.91	19.71	19.35	19.29	21.00
		25	25	19.76	19.89	19.70	19.38	19.27	21.00
		50	0	19.66	19.89	19.73	19.36	19.26	21.00
	256QAM	1	0	19.52	19.63	19.40	19.22	19.16	21.00
		1	25	19.39	19.91	19.49	19.12	19.23	21.00
		1	49	19.69	19.92	19.28	19.03	19.11	21.00
		25	0	18.48	18.85	18.74	18.35	18.13	20.00
		25	13	18.75	18.92	18.90	18.34	18.24	20.00
		25	25	19.05	18.87	18.41	18.18	18.21	20.00
		50	0	18.86	18.95	18.46	18.18	18.24	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	22.60	22.85	22.84	22.38	22.38	24.00
		1	38	22.75	22.87	22.72	22.29	22.30	24.00
		1	74	22.94	23.00	22.66	22.32	22.25	24.00
		36	0	21.66	21.88	21.76	21.35	21.33	23.00
		36	18	21.73	21.89	21.66	21.28	21.24	23.00
		36	39	21.87	21.92	21.64	21.32	21.26	23.00

		75	0	21.78	21.93	21.71	21.37	21.31	23.00
		1	0	21.65	21.91	21.90	21.47	21.43	23.00
		1	38	21.81	21.91	21.79	21.37	21.37	23.00
		1	74	22.02	22.07	21.76	21.41	21.38	23.00
		36	0	20.62	20.85	20.74	20.32	20.30	22.00
		36	18	20.69	20.83	20.63	20.25	20.22	22.00
		36	39	20.82	20.91	20.62	20.28	20.23	22.00
		75	0	20.79	20.96	20.74	20.39	20.36	22.00
		1	0	20.39	20.64	20.63	20.17	20.16	22.00
		1	38	20.53	20.66	20.51	20.09	20.09	22.00
		1	74	20.74	20.79	20.46	20.12	20.07	22.00
		36	0	19.64	19.91	19.77	19.37	19.32	21.00
		36	18	19.73	19.89	19.70	19.34	19.28	21.00
		36	39	19.82	19.93	19.66	19.34	19.23	21.00
		75	0	19.75	19.97	19.75	19.41	19.32	21.00
		1	0	19.56	19.63	19.60	19.22	19.28	21.00
		1	38	19.61	19.89	19.41	19.10	19.17	21.00
		1	74	19.79	19.92	19.54	19.01	19.21	21.00
		36	0	18.68	18.85	18.62	18.41	18.25	20.00
		36	18	18.61	18.92	18.72	18.48	18.10	20.00
		36	39	18.93	19.05	18.53	18.24	18.19	20.00
		75	0	18.76	18.89	18.62	18.36	18.40	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	22.61	22.87	22.87	22.43	22.35	24.00
		1	50	22.86	22.85	22.75	22.35	22.35	24.00
		1	99	23.01	23.05	22.67	22.32	22.33	24.00
		50	0	21.79	21.95	21.85	21.44	21.47	23.00
		50	25	21.88	21.97	21.81	21.40	21.35	23.00
		50	50	22.00	22.00	21.71	21.41	21.34	23.00
		100	0	21.87	21.97	21.79	21.42	21.38	23.00
	16QAM	1	0	21.70	21.95	21.95	21.51	21.43	23.00
		1	50	21.89	21.96	21.81	21.46	21.47	23.00
		1	99	22.07	22.13	21.76	21.40	21.42	23.00
		50	0	20.76	20.96	20.84	20.44	20.44	22.00
		50	25	20.88	20.97	20.77	20.39	20.34	22.00
		50	50	20.99	21.02	20.71	20.41	20.32	22.00
		100	0	20.86	20.98	20.76	20.41	20.37	22.00
	64QAM	1	0	20.41	20.68	20.65	20.20	20.14	22.00
		1	50	20.60	20.70	20.54	20.12	20.12	22.00
		1	99	20.80	20.85	20.45	20.10	20.12	22.00
		50	0	19.73	19.96	19.85	19.46	19.42	21.00

		50	25	19.84	19.97	19.79	19.41	19.39	21.00
		50	50	19.96	20.00	19.70	19.41	19.32	21.00
		100	0	19.85	19.98	19.79	19.43	19.37	21.00
	256QAM	1	0	19.46	19.49	19.48	19.10	19.16	21.00
		1	50	19.43	19.77	19.35	19.22	19.19	21.00
		1	99	19.67	19.74	19.40	19.13	19.07	21.00
		50	0	18.54	18.91	18.62	18.51	18.21	20.00
		50	25	18.69	19.04	18.70	18.30	18.20	20.00
		50	50	18.93	18.95	18.59	18.28	18.09	20.00
		100	0	18.74	18.75	18.60	18.28	18.26	20.00

LTE B41 PC3									
Sensor on--Main Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	16.29	16.58	16.53	16.19	16.07	17.50
		1	13	16.32	16.51	16.41	16.06	15.97	17.50
		1	24	16.40	16.51	16.38	16.12	15.94	17.50
		12	0	16.36	16.56	16.48	16.16	16.02	17.50
		12	6	16.39	16.57	16.45	16.11	15.97	17.50
		12	13	16.42	16.60	16.41	16.16	15.97	17.50
		25	0	16.39	16.60	16.46	16.15	16.01	17.50
	16QAM	1	0	16.34	16.58	16.53	16.19	16.05	17.50
		1	13	16.36	16.60	16.49	16.14	16.02	17.50
		1	24	16.42	16.62	16.46	16.21	16.01	17.50
		12	0	16.32	16.56	16.47	16.17	16.01	17.50
		12	6	16.36	16.55	16.44	16.12	15.97	17.50
		12	13	16.36	16.57	16.41	16.14	15.97	17.50
		25	0	16.40	16.65	16.49	16.18	16.01	17.50
	64QAM	1	0	16.09	16.32	16.27	15.94	15.80	17.50
		1	13	16.08	16.31	16.23	15.92	15.76	17.50
		1	24	16.16	16.33	16.19	15.95	15.75	17.50
		12	0	16.34	16.60	16.51	16.20	16.02	17.50
		12	6	16.37	16.60	16.44	16.16	15.98	17.50
		12	13	16.38	16.60	16.43	16.18	16.03	17.50
		25	0	16.38	16.63	16.51	16.18	16.06	17.50
	256QAM	1	0	16.07	16.11	16.28	16.36	16.47	17.50
		1	13	16.10	15.93	16.29	16.35	16.27	17.50
		1	24	15.86	15.97	16.61	16.64	16.37	17.50
		12	0	16.31	16.10	16.58	16.66	16.67	17.50
		12	6	16.23	16.10	16.69	16.77	16.43	17.50
		12	13	16.27	16.01	16.71	16.60	16.35	17.50

		25	0	16.21	16.23	16.62	16.59	16.48	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	16.28	16.63	16.50	16.26	16.18	17.50
		1	25	16.28	16.44	16.38	16.06	15.98	17.50
		1	49	16.48	16.54	16.39	16.11	15.97	17.50
		25	0	16.32	16.59	16.49	16.18	16.09	17.50
		25	13	16.36	16.58	16.42	16.16	16.01	17.50
		25	25	16.40	16.57	16.43	16.15	16.00	17.50
		50	0	16.36	16.59	16.48	16.17	16.02	17.50
	16QAM	1	0	16.35	16.63	16.59	16.26	16.20	17.50
		1	25	16.37	16.54	16.46	16.16	16.06	17.50
		1	49	16.53	16.60	16.49	16.19	16.03	17.50
		25	0	16.33	16.59	16.52	16.20	16.09	17.50
		25	13	16.37	16.57	16.42	16.15	16.02	17.50
		25	25	16.43	16.59	16.43	16.15	16.01	17.50
		50	0	16.39	16.60	16.50	16.18	16.03	17.50
	64QAM	1	0	16.10	16.40	16.34	16.00	15.93	17.50
		1	25	16.10	16.23	16.22	15.87	15.80	17.50
		1	49	16.27	16.33	16.22	15.94	15.75	17.50
		25	0	16.34	16.59	16.51	16.20	16.10	17.50
		25	13	16.39	16.59	16.45	16.16	16.03	17.50
		25	25	16.45	16.59	16.45	16.18	16.04	17.50
		50	0	16.36	16.58	16.47	16.16	16.02	17.50
	256QAM	1	0	15.91	16.07	16.22	16.24	16.29	17.50
		1	25	15.92	15.93	16.13	16.27	16.23	17.50
		1	49	15.98	15.69	16.35	16.58	16.05	17.50
		25	0	16.21	16.22	16.38	16.66	16.47	17.50
		25	13	16.31	15.98	16.41	16.49	16.41	17.50
		25	25	16.09	15.99	16.69	16.58	16.39	17.50
		50	0	16.27	16.19	16.60	16.57	16.58	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	16.29	16.56	16.55	16.19	16.17	17.50
		1	38	16.41	16.53	16.44	16.15	16.06	17.50
		1	74	16.60	16.62	16.42	16.14	15.98	17.50
		36	0	16.37	16.59	16.54	16.21	16.12	17.50
		36	18	16.46	16.58	16.45	16.15	16.07	17.50
		36	39	16.54	16.60	16.42	16.16	16.01	17.50
		75	0	16.47	16.63	16.48	16.21	16.09	17.50
	16QAM	1	0	16.37	16.62	16.65	16.29	16.23	17.50

		1	38	16.47	16.61	16.53	16.21	16.12	17.50
		1	74	16.67	16.70	16.48	16.22	16.06	17.50
		36	0	16.33	16.54	16.50	16.18	16.10	17.50
		36	18	16.45	16.54	16.40	16.13	16.03	17.50
		36	39	16.49	16.56	16.37	16.12	15.95	17.50
		75	0	16.49	16.65	16.50	16.25	16.12	17.50
	64QAM	1	0	16.10	16.41	16.39	16.01	15.99	17.50
		1	38	16.21	16.38	16.25	15.92	15.87	17.50
		1	74	16.37	16.49	16.20	15.95	15.80	17.50
		36	0	16.36	16.60	16.52	16.19	16.14	17.50
		36	18	16.45	16.57	16.43	16.13	16.07	17.50
		36	39	16.52	16.61	16.39	16.14	16.01	17.50
		75	0	16.47	16.64	16.49	16.23	16.11	17.50
	256QAM	1	0	16.00	16.50	16.45	16.25	15.89	17.50
		1	38	16.15	16.53	16.47	15.84	16.07	17.50
		1	74	16.41	16.54	16.39	16.08	15.79	17.50
		36	0	16.52	16.52	16.75	16.13	16.38	17.50
		36	18	16.41	16.51	16.69	16.19	16.38	17.50
		36	39	16.49	16.66	16.33	16.33	16.07	17.50
		75	0	16.64	16.63	16.60	16.31	16.15	17.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39750/ 2506	40185/ 2549.5	40620/ 2593	41055/ 2636.5	41490/ 2680	
20MHz	QPSK	1	0	16.35	16.65	16.64	16.34	16.21	17.50
		1	50	16.48	16.53	16.47	16.17	16.07	17.50
		1	99	16.66	16.70	16.39	16.13	15.98	17.50
		50	0	16.47	16.66	16.59	16.27	16.21	17.50
		50	25	16.54	16.64	16.54	16.22	16.15	17.50
		50	50	16.64	16.67	16.47	16.21	16.08	17.50
		100	0	16.54	16.68	16.52	16.24	16.12	17.50
	16QAM	1	0	16.43	16.66	16.71	16.35	16.22	17.50
		1	50	16.54	16.65	16.53	16.22	16.15	17.50
		1	99	16.74	16.81	16.49	16.21	16.09	17.50
		50	0	16.46	16.68	16.61	16.27	16.20	17.50
		50	25	16.56	16.68	16.54	16.24	16.14	17.50
		50	50	16.66	16.71	16.45	16.23	16.08	17.50
		100	0	16.54	16.69	16.54	16.25	16.12	17.50
	64QAM	1	0	16.14	16.38	16.43	16.07	15.97	17.50
		1	50	16.27	16.35	16.25	15.96	15.89	17.50
		1	99	16.45	16.52	16.21	15.92	15.81	17.50
		50	0	16.44	16.64	16.59	16.27	16.18	17.50
		50	25	16.55	16.65	16.51	16.23	16.16	17.50
		50	50	16.65	16.68	16.45	16.19	16.07	17.50

		100	0	16.54	16.67	16.50	16.21	16.13	17.50
	256QAM	1	0	16.25	15.97	16.08	16.28	16.55	17.50
		1	50	15.92	15.95	16.39	16.23	16.25	17.50
		1	99	15.86	15.77	16.37	16.70	16.35	17.50
		50	0	16.35	16.12	16.50	16.72	16.61	17.50
		50	25	16.23	16.32	16.57	16.67	16.41	17.50
		50	50	16.11	16.07	16.79	16.56	16.49	17.50
		100	0	16.15	16.27	16.54	16.65	16.64	17.50

LTE B41 PC3									
WWAN+WLAN Sensor on--Main Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	14.73	15.03	15.28	15.04	14.53	16.00
		1	13	14.92	15.17	14.69	14.51	14.37	16.00
		1	24	14.94	15.26	15.01	14.63	14.36	16.00
		12	0	14.93	15.06	14.93	14.67	14.59	16.00
		12	6	14.82	15.04	14.82	14.72	14.73	16.00
		12	13	15.06	14.99	14.97	14.63	14.50	16.00
		25	0	15.10	15.18	14.90	14.54	14.54	16.00
	16QAM	1	0	15.07	15.30	14.93	14.91	14.74	16.00
		1	13	15.20	15.21	15.15	14.50	14.73	16.00
		1	24	15.14	15.07	14.81	14.55	14.31	16.00
		12	0	14.82	15.32	15.23	14.67	14.70	16.00
		12	6	15.22	15.02	14.94	14.84	14.76	16.00
		12	13	15.18	15.29	14.69	14.95	14.42	16.00
		25	0	14.98	15.05	14.68	14.93	14.44	16.00
	64QAM	1	0	14.80	14.66	14.71	14.25	14.25	16.00
		1	13	14.53	14.87	14.71	14.28	14.35	16.00
		1	24	15.11	14.90	14.71	14.10	14.22	16.00
		12	0	14.78	15.18	15.19	14.63	14.48	16.00
		12	6	15.03	15.15	15.01	14.65	14.52	16.00
		12	13	14.95	15.10	14.63	14.43	14.41	16.00
		25	0	14.74	15.13	14.86	14.69	14.73	16.00
	256QAM	1	0	14.66	14.19	14.23	14.50	15.15	16.00
		1	13	14.57	14.28	14.47	14.67	14.53	16.00
		1	24	15.05	14.06	14.40	15.24	14.91	16.00
		12	0	14.66	14.67	14.46	15.20	15.05	16.00
		12	6	15.03	14.65	14.52	15.35	14.69	16.00
		12	13	14.85	14.39	14.21	14.96	14.95	16.00
		25	0	14.96	14.45	14.81	15.19	15.20	16.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	14.51	14.93	15.04	14.74	14.65	16.00
		1	25	14.72	14.87	14.75	14.47	14.43	16.00
		1	49	15.00	15.06	14.79	14.69	14.42	16.00
		25	0	15.07	15.26	15.05	14.95	14.65	16.00
		25	13	14.66	15.04	14.76	14.88	14.59	16.00
		25	25	14.88	15.03	15.17	14.53	14.56	16.00
		50	0	14.84	14.92	14.82	14.68	14.30	16.00
	16QAM	1	0	14.87	15.38	14.99	14.95	14.72	16.00
		1	25	14.90	15.27	15.25	14.52	14.65	16.00
		1	49	15.08	15.25	15.13	14.63	14.45	16.00
		25	0	14.70	15.26	15.01	14.89	14.42	16.00
		25	13	15.12	14.98	15.02	14.68	14.54	16.00
		25	25	15.20	15.07	14.83	14.93	14.56	16.00
		50	0	14.96	14.87	14.60	15.05	14.48	16.00
	64QAM	1	0	14.74	14.76	14.65	14.47	14.33	16.00
		1	25	14.47	14.83	14.65	14.38	14.21	16.00
		1	49	14.99	14.90	14.67	14.08	14.44	16.00
		25	0	14.86	15.08	15.27	14.67	14.44	16.00
		25	13	14.91	15.27	14.99	14.53	14.62	16.00
		25	25	14.89	15.02	14.71	14.61	14.17	16.00
		50	0	14.92	15.21	15.14	14.39	14.81	16.00
	256QAM	1	0	14.43	14.37	14.58	14.44	15.11	16.00
		1	25	14.16	14.65	14.93	14.83	14.69	16.00
		1	49	14.52	14.23	14.75	15.44	14.77	16.00
		25	0	14.85	14.48	14.80	15.18	15.15	16.00
		25	13	14.87	14.46	14.71	15.41	14.83	16.00
		25	25	14.39	14.51	15.19	14.62	14.87	16.00
		50	0	14.43	14.59	15.02	15.27	15.14	16.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	14.63	15.19	15.30	14.96	14.63	16.00
		1	38	14.94	14.93	14.89	14.37	14.37	16.00
		1	74	15.06	15.08	14.75	14.57	14.34	16.00
		36	0	14.85	15.06	15.07	14.89	14.63	16.00
		36	18	14.82	15.04	14.86	14.72	14.73	16.00
		36	39	15.06	14.97	15.11	14.63	14.42	16.00
		75	0	14.88	14.94	15.00	14.56	14.62	16.00
	16QAM	1	0	15.05	15.34	15.09	14.91	14.60	16.00
		1	38	14.96	15.15	15.09	14.64	14.75	16.00

		1	74	15.14	15.21	14.79	14.69	14.27	16.00
		36	0	14.98	15.10	14.97	14.75	14.76	16.00
		36	18	15.14	15.12	15.04	14.86	14.70	16.00
		36	39	15.02	15.17	14.87	14.93	14.36	16.00
		75	0	14.78	15.03	14.72	14.77	14.44	16.00
	64QAM	1	0	14.56	14.84	14.85	14.21	14.41	16.00
		1	38	14.39	14.95	14.55	14.16	14.29	16.00
		1	74	15.09	15.02	14.61	14.14	14.42	16.00
		36	0	14.86	15.22	15.17	14.65	14.54	16.00
		36	18	14.91	15.03	15.01	14.57	14.40	16.00
		36	39	15.05	15.36	14.87	14.31	14.17	16.00
		75	0	14.80	15.09	15.12	14.51	14.75	16.00
	256QAM	1	0	14.49	14.41	14.50	14.44	14.91	16.00
		1	38	14.12	14.41	14.71	14.89	14.37	16.00
		1	74	14.36	14.37	14.91	15.22	14.91	16.00
		36	0	14.77	14.56	14.82	15.36	15.27	16.00
		36	18	14.83	14.74	14.77	15.33	14.79	16.00
		36	39	14.47	14.29	15.41	14.72	15.13	16.00
		75	0	14.37	14.89	14.84	15.33	15.36	16.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	14.69	15.03	15.14	14.92	14.51	16.00
		1	50	14.84	15.05	14.73	14.35	14.45	16.00
		1	99	15.04	15.19	14.85	14.55	14.44	16.00
		50	0	14.85	15.10	14.97	14.73	14.45	16.00
		50	25	14.82	14.98	14.88	14.68	14.73	16.00
		50	50	14.98	15.11	15.01	14.59	14.52	16.00
		100	0	14.96	15.02	14.96	14.52	14.44	16.00
	16QAM	1	0	14.93	15.18	14.97	14.89	14.72	16.00
		1	50	15.08	15.11	15.05	14.54	14.61	16.00
		1	99	15.12	15.07	14.91	14.63	14.37	16.00
		50	0	14.88	15.22	15.07	14.73	14.58	16.00
		50	25	15.08	15.02	15.00	14.78	14.64	16.00
		50	50	15.08	15.13	14.75	14.81	14.34	16.00
		100	0	14.84	14.95	14.78	14.83	14.44	16.00
	64QAM	1	0	14.66	14.66	14.77	14.25	14.27	16.00
		1	50	14.51	14.89	14.67	14.24	14.31	16.00
		1	99	14.95	14.98	14.57	14.16	14.26	16.00
		50	0	14.68	15.12	15.09	14.55	14.56	16.00
		50	25	15.01	15.11	14.95	14.65	14.50	16.00
		50	50	14.89	15.18	14.69	14.43	14.27	16.00
		100	0	14.82	15.11	14.96	14.53	14.71	16.00

	256QAM	1	0	14.61	14.35	14.48	14.52	14.99	16.00
		1	50	14.16	14.45	14.83	14.77	14.49	16.00
		1	99	14.34	14.27	14.77	15.22	14.83	16.00
		50	0	14.79	14.52	14.92	15.22	15.11	16.00
		50	25	14.77	14.60	14.81	15.19	14.75	16.00
		50	50	14.41	14.31	15.25	14.80	14.99	16.00
		100	0	14.39	14.75	14.82	15.19	15.18	16.00

LTE B41 PC2									
Pmax&Sensor off--Main Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	25.51	25.75	25.67	25.29	25.25	26.50
		1	13	25.58	25.75	25.63	25.25	25.21	26.50
		1	24	25.64	25.76	25.62	25.30	25.23	26.50
		12	0	24.56	24.85	24.71	24.33	24.30	25.50
		12	6	24.59	24.84	24.67	24.28	24.25	25.50
		12	13	24.64	24.85	24.65	24.30	24.24	25.50
		25	0	24.62	24.87	24.70	24.33	24.29	25.50
	16QAM	1	0	24.64	24.91	24.82	24.45	24.41	25.50
		1	13	24.02	24.93	24.80	24.43	24.36	25.50
		1	24	24.65	24.93	24.79	24.47	24.38	25.50
		12	0	23.61	23.90	23.77	23.37	23.35	24.50
		12	6	23.64	23.89	23.73	23.33	23.31	24.50
		12	13	23.67	23.91	23.71	23.35	23.29	24.50
		25	0	23.65	23.93	23.75	23.37	23.31	24.50
	64QAM	1	0	23.54	23.82	23.74	23.32	23.34	24.50
		1	13	23.59	23.81	23.69	23.30	23.26	24.50
		1	24	23.67	23.82	23.70	23.34	23.29	24.50
		12	0	22.59	22.90	22.76	22.36	22.35	23.50
		12	6	22.63	22.90	22.73	22.32	22.30	23.50
		12	13	22.66	22.91	22.70	22.35	22.29	23.50
		25	0	22.65	22.90	22.74	22.36	22.31	23.50
	256QAM	1	0	22.67	22.85	22.75	22.51	22.37	23.50
		1	13	22.60	22.90	22.48	22.36	22.29	23.50
		1	24	22.85	22.83	22.73	22.35	22.56	23.50
		12	0	21.65	21.80	21.81	22.43	22.34	22.50
		12	6	21.88	22.08	21.73	21.54	21.32	22.50
		12	13	22.18	21.77	21.61	21.33	21.24	22.50
		25	0	21.95	22.05	21.62	21.32	21.25	22.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	25.51	25.76	25.71	25.33	25.29	26.50
		1	25	25.55	25.73	25.61	25.27	25.22	26.50
		1	49	25.76	25.81	25.62	25.30	25.25	26.50
		25	0	24.58	24.83	24.73	24.32	24.31	25.50
		25	13	24.62	24.83	24.66	24.30	24.26	25.50
		25	25	24.72	24.86	24.66	24.31	24.24	25.50
		50	0	24.63	24.86	24.72	24.33	24.28	25.50
	16QAM	1	0	24.70	24.94	24.90	24.52	24.47	25.50
		1	25	24.75	24.92	24.80	24.46	24.41	25.50
		1	49	24.97	25.00	24.81	24.47	24.42	25.50
		25	0	23.62	23.88	23.76	23.35	23.34	24.50
		25	13	23.65	23.86	23.69	23.31	23.30	24.50
		25	25	23.75	23.91	23.69	23.35	23.26	24.50
		50	0	23.67	23.90	23.75	23.34	23.32	24.50
	64QAM	1	0	23.56	23.82	23.76	23.41	23.35	24.50
		1	25	23.63	23.78	23.67	23.34	23.30	24.50
		1	49	23.81	23.87	23.67	23.33	23.29	24.50
		25	0	22.63	22.88	22.78	22.36	22.35	23.50
		25	13	22.67	22.87	22.70	22.33	22.31	23.50
		25	25	22.77	22.92	22.70	22.37	22.26	23.50
		50	0	22.64	22.87	22.71	22.32	22.28	23.50
	256QAM	1	0	22.57	22.87	22.93	22.57	22.41	23.50
		1	25	22.58	22.86	22.62	22.54	21.99	23.50
		1	49	22.69	23.03	22.65	22.35	22.66	23.50
		25	0	21.77	21.86	21.67	22.21	22.50	22.50
		25	13	21.80	21.94	21.81	21.38	21.48	22.50
		25	25	22.24	21.93	21.51	21.17	21.20	22.50
		50	0	21.81	22.19	21.74	21.60	21.41	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	25.57	25.79	25.77	25.38	25.34	26.50
		1	38	25.74	25.78	25.68	25.34	25.26	26.50
		1	74	25.90	25.91	25.63	25.32	25.25	26.50
		36	0	24.65	24.87	24.77	24.34	24.33	25.50
		36	18	24.74	24.90	24.68	24.31	24.28	25.50
		36	39	24.86	24.93	24.65	24.34	24.26	25.50
		75	0	24.78	24.94	24.72	24.38	24.33	25.50
	16QAM	1	0	24.75	24.98	24.94	24.56	24.53	25.50
		1	38	24.89	24.98	24.85	24.50	24.43	25.50

		1	74	25.08	25.10	24.81	24.50	24.43	25.50
		36	0	23.64	23.88	23.76	23.33	23.31	24.50
		36	18	23.74	23.89	23.67	23.27	23.27	24.50
		36	39	23.83	23.94	23.63	23.31	23.25	24.50
		75	0	23.81	23.96	23.75	23.40	23.36	24.50
	64QAM	1	0	23.62	23.85	23.83	23.44	23.41	24.50
		1	38	23.77	23.85	23.74	23.33	23.33	24.50
		1	74	23.96	23.98	23.69	23.37	23.31	24.50
		36	0	22.65	22.90	22.77	22.34	22.33	23.50
		36	18	22.73	22.89	22.68	22.28	22.26	23.50
		36	39	22.85	22.94	22.64	22.31	22.25	23.50
		75	0	22.78	22.95	22.72	22.38	22.34	23.50
	256QAM	1	0	22.83	23.03	22.73	22.39	22.35	23.50
		1	38	22.82	22.94	22.44	22.32	22.25	23.50
		1	74	22.93	22.89	22.97	22.35	22.42	23.50
		36	0	21.59	21.78	21.83	22.37	22.34	22.50
		36	18	21.82	21.84	21.81	21.44	21.34	22.50
		36	39	22.06	21.91	21.67	21.23	21.36	22.50
		75	0	22.05	22.07	21.80	21.56	21.29	22.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39750/ 2506	40185/ 2549.5	40620/ 2593	41055/ 2636.5	41490/ 2680	
20MHz	QPSK	1	0	25.59	25.82	25.81	25.42	25.32	26.50
		1	50	25.79	25.78	25.67	25.34	25.29	26.50
		1	99	25.96	25.97	25.62	25.31	25.28	26.50
		50	0	24.76	24.93	24.82	24.44	24.41	25.50
		50	25	24.85	24.95	24.77	24.40	24.34	25.50
		50	50	24.98	24.98	24.70	24.40	24.33	25.50
		100	0	24.85	24.95	24.77	24.43	24.35	25.50
	16QAM	1	0	24.77	25.03	24.99	24.60	24.50	25.50
		1	50	24.98	24.97	24.85	24.49	24.48	25.50
		1	99	25.16	25.16	24.81	24.50	24.46	25.50
		50	0	23.76	23.97	23.86	23.45	23.45	24.50
		50	25	23.87	23.99	23.79	23.41	23.37	24.50
		50	50	24.00	24.03	23.74	23.40	23.34	24.50
		100	0	23.86	23.97	23.79	23.44	23.36	24.50
	64QAM	1	0	23.64	23.88	23.88	23.47	23.38	24.50
		1	50	23.83	23.87	23.73	23.38	23.37	24.50
		1	99	24.02	24.04	23.68	23.36	23.35	24.50
		50	0	22.74	22.95	22.82	22.43	22.41	23.50
		50	25	22.85	22.97	22.78	22.38	22.35	23.50
		50	50	22.97	23.00	22.70	22.39	22.32	23.50
		100	0	22.86	22.96	22.77	22.40	22.34	23.50

	256QAM	1	0	22.75	22.91	22.73	22.35	22.27	23.50
		1	50	22.70	22.76	22.52	22.32	22.15	23.50
		1	99	22.85	22.93	22.81	22.41	22.50	23.50
		50	0	21.63	21.74	21.67	22.33	22.36	22.50
		50	25	21.92	21.96	21.67	21.38	21.36	22.50
		50	50	22.10	21.83	21.51	21.29	21.30	22.50
		100	0	21.99	22.01	21.62	21.42	21.35	22.50

LTE B41 PC2									
Sensor on--Main Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	17.30	17.66	17.57	17.25	17.13	18.50
		1	13	17.35	17.60	17.50	17.17	17.03	18.50
		1	24	17.39	17.62	17.47	17.18	17.02	18.50
		12	0	17.37	17.60	17.51	17.18	17.05	18.50
		12	6	17.39	17.60	17.45	17.14	16.98	18.50
		12	13	17.43	17.61	17.44	17.17	16.98	18.50
		25	0	17.39	17.62	17.48	17.17	17.02	18.50
	16QAM	1	0	17.48	17.71	17.66	17.32	17.26	18.50
		1	13	17.54	17.73	17.64	17.32	17.20	18.50
		1	24	17.57	17.73	17.63	17.34	17.16	18.50
		12	0	17.41	17.64	17.57	17.23	17.09	18.50
		12	6	17.42	17.62	17.50	17.19	17.04	18.50
		12	13	17.44	17.64	17.48	17.21	17.05	18.50
		25	0	17.41	17.64	17.52	17.20	17.05	18.50
	64QAM	1	0	17.38	17.64	17.59	17.22	17.10	18.50
		1	13	17.39	17.63	17.53	17.19	17.07	18.50
		1	24	17.47	17.64	17.51	17.21	17.05	18.50
		12	0	17.39	17.64	17.55	17.21	17.09	18.50
		12	6	17.39	17.64	17.51	17.19	17.04	18.50
		12	13	17.43	17.64	17.48	17.22	17.05	18.50
		25	0	17.42	17.66	17.53	17.22	17.05	18.50
	256QAM	1	0	17.30	17.14	17.81	17.44	17.14	18.50
		1	13	17.20	17.22	17.64	17.30	17.22	18.50
		1	24	17.38	17.03	17.40	17.22	17.23	18.50
		12	0	17.13	17.12	17.58	17.35	17.32	18.50
		12	6	17.39	17.12	17.55	17.21	17.10	18.50
		12	13	17.22	17.01	17.59	17.36	17.05	18.50
		25	0	17.15	17.08	17.69	17.11	17.10	18.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	17.30	17.60	17.57	17.30	17.22	18.50
		1	25	17.35	17.50	17.42	17.11	17.00	18.50
		1	49	17.53	17.59	17.46	17.18	17.03	18.50
		25	0	17.32	17.55	17.48	17.18	17.05	18.50
		25	13	17.36	17.57	17.43	17.14	17.00	18.50
		25	25	17.44	17.57	17.42	17.14	16.98	18.50
		50	0	17.38	17.59	17.48	17.16	17.00	18.50
	16QAM	1	0	17.51	17.76	17.73	17.39	17.32	18.50
		1	25	17.53	17.68	17.61	17.28	17.21	18.50
		1	49	17.70	17.73	17.63	17.34	17.18	18.50
		25	0	17.36	17.60	17.52	17.20	17.10	18.50
		25	13	17.41	17.60	17.45	17.14	17.03	18.50
		25	25	17.45	17.59	17.46	17.17	17.00	18.50
		50	0	17.39	17.62	17.52	17.19	17.04	18.50
	64QAM	1	0	17.36	17.64	17.61	17.26	17.21	18.50
		1	25	17.39	17.55	17.47	17.17	17.04	18.50
		1	49	17.55	17.63	17.48	17.18	17.03	18.50
		25	0	17.38	17.63	17.55	17.22	17.12	18.50
		25	13	17.43	17.62	17.48	17.18	17.05	18.50
		25	25	17.47	17.62	17.48	17.21	17.03	18.50
		50	0	17.37	17.59	17.48	17.16	17.01	18.50
	256QAM	1	0	17.32	17.14	17.61	17.40	17.10	18.50
		1	25	17.28	16.96	17.32	17.32	17.20	18.50
		1	49	17.28	16.91	17.38	17.02	16.91	18.50
		25	0	17.19	17.00	17.52	17.19	17.14	18.50
		25	13	17.29	16.98	17.33	17.13	17.08	18.50
		25	25	17.24	17.05	17.51	17.20	17.03	18.50
		50	0	17.11	17.00	17.61	17.03	17.20	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	17.32	17.68	17.62	17.30	17.21	18.50
		1	38	17.47	17.59	17.50	17.19	17.09	18.50
		1	74	17.64	17.69	17.45	17.20	17.01	18.50
		36	0	17.37	17.57	17.52	17.19	17.11	18.50
		36	18	17.47	17.55	17.44	17.14	17.07	18.50
		36	39	17.52	17.60	17.39	17.14	16.98	18.50
		75	0	17.47	17.63	17.47	17.22	17.09	18.50
	16QAM	1	0	17.50	17.77	17.78	17.43	17.39	18.50
		1	38	17.63	17.73	17.66	17.35	17.26	18.50

		1	74	17.80	17.85	17.62	17.36	17.19	18.50
		36	0	17.34	17.55	17.50	17.18	17.10	18.50
		36	18	17.45	17.55	17.42	17.12	17.05	18.50
		36	39	17.51	17.57	17.39	17.11	16.98	18.50
		75	0	17.48	17.64	17.50	17.23	17.12	18.50
	64QAM	1	0	17.38	17.64	17.64	17.28	17.26	18.50
		1	38	17.51	17.62	17.55	17.21	17.13	18.50
		1	74	17.68	17.73	17.48	17.23	17.05	18.50
		36	0	17.36	17.59	17.53	17.18	17.13	18.50
		36	18	17.47	17.57	17.44	17.14	17.09	18.50
		36	39	17.53	17.59	17.39	17.13	17.00	18.50
		75	0	17.47	17.62	17.47	17.22	17.12	18.50
	256QAM	1	0	17.59	17.48	17.18	17.54	17.12	18.50
		1	38	17.72	17.06	17.30	17.36	16.96	18.50
		1	74	17.64	17.16	17.19	17.10	17.07	18.50
		36	0	17.44	17.13	17.38	17.33	17.36	18.50
		36	18	17.63	17.15	17.36	17.07	17.20	18.50
		36	39	17.65	17.02	17.01	17.36	16.93	18.50
		75	0	17.57	17.21	17.18	17.37	17.26	18.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	17.47	17.68	17.75	17.38	17.26	18.50
		1	50	17.52	17.59	17.48	17.22	17.11	18.50
		1	99	17.70	17.76	17.45	17.19	17.04	18.50
		50	0	17.44	17.64	17.59	17.27	17.20	18.50
		50	25	17.54	17.63	17.54	17.22	17.14	18.50
		50	50	17.64	17.67	17.45	17.21	17.05	18.50
		100	0	17.54	17.68	17.52	17.23	17.11	18.50
	16QAM	1	0	17.57	17.78	17.85	17.48	17.36	18.50
		1	50	17.68	17.77	17.67	17.37	17.32	18.50
		1	99	17.87	17.92	17.64	17.36	17.23	18.50
		50	0	17.45	17.67	17.62	17.26	17.20	18.50
		50	25	17.55	17.64	17.55	17.23	17.16	18.50
		50	50	17.67	17.70	17.47	17.23	17.09	18.50
		100	0	17.54	17.68	17.53	17.23	17.12	18.50
	64QAM	1	0	17.44	17.68	17.73	17.34	17.22	18.50
		1	50	17.55	17.63	17.52	17.22	17.14	18.50
		1	99	17.73	17.80	17.48	17.22	17.07	18.50
		50	0	17.42	17.66	17.60	17.23	17.20	18.50
		50	25	17.55	17.64	17.53	17.23	17.14	18.50
		50	50	17.64	17.67	17.47	17.20	17.05	18.50
		100	0	17.53	17.67	17.53	17.21	17.12	18.50

	256QAM	1	0	17.28	17.34	17.67	17.42	17.34	18.50
		1	50	17.26	17.04	17.40	17.22	17.22	18.50
		1	99	17.28	17.01	17.64	17.10	17.07	18.50
		50	0	17.11	17.20	17.54	17.39	17.12	18.50
		50	25	17.31	17.20	17.61	17.31	17.32	18.50
		50	50	17.30	17.23	17.55	17.12	17.15	18.50
		100	0	17.33	17.30	17.57	17.21	17.04	18.50

LTE B41 PC2									
WWAN+WLAN Sensor on--Main Ant2				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	15.48	15.63	15.64	15.41	15.51	16.50
		1	13	15.51	15.54	15.15	15.09	15.14	16.50
		1	24	15.35	15.67	15.48	14.82	15.13	16.50
		12	0	15.37	15.35	15.58	15.00	15.05	16.50
		12	6	15.23	15.62	15.51	15.41	15.21	16.50
		12	13	15.69	15.52	14.88	14.84	14.84	16.50
		25	0	15.63	15.41	15.45	15.36	15.08	16.50
	16QAM	1	0	15.74	15.81	15.96	15.41	15.27	16.50
		1	13	15.67	15.86	15.84	15.36	15.21	16.50
		1	24	15.76	15.83	15.69	15.21	15.24	16.50
		12	0	15.28	15.40	15.53	15.11	15.23	16.50
		12	6	15.26	15.39	15.46	15.08	15.11	16.50
		12	13	15.80	15.47	15.22	14.98	14.86	16.50
		25	0	15.01	15.55	15.12	15.04	15.09	16.50
	64QAM	1	0	15.17	15.25	15.62	15.37	15.27	16.50
		1	13	15.50	15.70	15.63	14.85	15.37	16.50
		1	24	15.48	15.81	15.69	15.21	14.68	16.50
		12	0	15.31	15.21	15.97	15.38	15.01	16.50
		12	6	15.88	15.61	15.20	15.52	15.01	16.50
		12	13	15.03	15.50	15.32	14.99	14.94	16.50
		25	0	15.52	15.50	15.36	15.14	14.79	16.50
	256QAM	1	0	15.21	15.51	15.44	15.15	15.15	16.50
		1	13	15.39	14.97	15.19	15.27	14.79	16.50
		1	24	15.21	14.68	15.29	15.17	14.78	16.50
		12	0	14.68	15.27	15.47	15.04	15.07	16.50
		12	6	15.52	15.21	15.78	15.02	15.35	16.50
		12	13	15.11	14.80	15.54	15.17	15.06	16.50
		25	0	14.76	15.23	15.40	15.16	14.75	16.50

Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	15.58	15.59	15.54	15.31	15.07	16.50
		1	25	15.55	15.42	15.35	15.17	15.06	16.50
		1	49	15.39	15.81	15.44	15.24	14.91	16.50
		25	0	15.37	15.49	15.44	15.24	15.11	16.50
		25	13	15.57	15.56	15.19	15.17	15.07	16.50
		25	25	15.61	15.52	15.08	15.02	15.08	16.50
		50	0	15.29	15.79	15.59	15.26	15.02	16.50
	16QAM	1	0	15.80	15.87	15.78	15.29	15.35	16.50
		1	25	15.59	16.00	15.70	15.56	15.31	16.50
		1	49	15.50	15.75	15.75	15.29	15.18	16.50
		25	0	15.02	15.38	15.57	15.13	15.35	16.50
		25	13	15.26	15.69	15.50	15.20	15.09	16.50
		25	25	15.62	15.59	15.44	15.00	14.84	16.50
		50	0	15.45	15.87	15.44	15.24	14.93	16.50
	64QAM	1	0	15.47	15.59	15.92	15.35	15.05	16.50
		1	25	15.56	15.58	15.57	15.07	15.09	16.50
		1	49	15.78	15.77	15.31	15.21	14.92	16.50
		25	0	15.65	15.59	15.49	15.24	15.31	16.50
		25	13	15.80	15.55	15.46	15.32	15.21	16.50
		25	25	15.33	15.26	15.32	14.97	14.90	16.50
		50	0	15.50	15.64	15.50	15.24	15.13	16.50
	256QAM	1	0	15.53	15.51	15.86	15.31	15.57	16.50
		1	25	14.99	14.97	15.13	15.15	15.15	16.50
		1	49	15.05	14.84	15.25	15.03	14.90	16.50
		25	0	15.18	15.31	15.47	15.14	15.11	16.50
		25	13	15.54	14.89	15.82	15.08	15.21	16.50
		25	25	15.01	15.20	15.62	15.11	15.08	16.50
		50	0	15.18	15.15	15.64	15.18	14.81	16.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	15.34	15.61	15.64	15.25	15.35	16.50
		1	38	15.47	15.58	15.13	15.07	15.10	16.50
		1	74	15.37	15.75	15.44	15.10	14.95	16.50
		36	0	15.31	15.39	15.76	15.44	15.27	16.50
		36	18	15.41	15.50	15.41	15.25	14.85	16.50
		36	39	15.61	15.64	15.24	15.18	15.18	16.50
		75	0	15.33	15.59	15.49	15.36	14.96	16.50
	16QAM	1	0	15.76	15.97	15.88	15.55	15.11	16.50
		1	38	15.49	16.00	15.70	15.34	15.51	16.50

		1	74	15.62	15.87	15.67	15.15	15.18	16.50
		36	0	15.24	15.42	15.69	15.33	15.23	16.50
		36	18	15.32	15.43	15.58	15.00	14.91	16.50
		36	39	15.44	15.53	15.44	15.02	14.96	16.50
		75	0	15.23	15.77	15.36	15.22	14.87	16.50
	64QAM	1	0	15.43	15.43	15.78	15.15	15.17	16.50
		1	38	15.58	15.44	15.63	14.89	15.05	16.50
		1	74	15.86	15.79	15.47	15.45	14.72	16.50
		36	0	15.49	15.49	15.81	15.24	15.35	16.50
		36	18	15.62	15.47	15.40	15.32	15.07	16.50
		36	39	15.49	15.36	15.40	15.05	15.12	16.50
		75	0	15.66	15.72	15.68	15.18	15.01	16.50
	256QAM	1	0	15.39	15.41	15.74	15.49	15.51	16.50
		1	38	15.25	14.89	15.35	15.17	15.07	16.50
		1	74	15.33	14.88	15.39	14.95	15.06	16.50
		36	0	15.00	15.43	15.55	15.28	15.01	16.50
		36	18	15.28	15.11	15.60	15.00	15.37	16.50
		36	39	15.09	15.20	15.64	15.15	15.10	16.50
		75	0	15.02	15.15	15.36	15.18	14.93	16.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/ Frequency(MHz)					Tune-up
				39750/2506	40185/2549.5	40620/2593	41055/2636.5	41490/2680	
20MHz	QPSK	1	0	15.40	15.47	15.60	15.37	15.17	16.50
		1	50	15.55	15.52	15.23	15.05	15.08	16.50
		1	99	15.45	15.77	15.40	15.08	14.89	16.50
		50	0	15.35	15.39	15.60	15.24	15.21	16.50
		50	25	15.47	15.38	15.31	15.25	14.97	16.50
		50	50	15.65	15.69	15.22	15.10	14.98	16.50
		100	0	15.41	15.57	15.49	15.28	15.12	16.50
	16QAM	1	0	15.64	15.87	15.92	15.35	15.29	16.50
		1	50	15.57	15.88	15.78	15.40	15.35	16.50
		1	99	15.58	15.79	15.73	15.17	15.16	16.50
		50	0	15.18	15.42	15.63	15.13	15.25	16.50
		50	25	15.26	15.53	15.62	15.10	15.07	16.50
		50	50	15.52	15.53	15.38	15.04	14.92	16.50
		100	0	15.25	15.65	15.24	15.26	14.97	16.50
	64QAM	1	0	15.35	15.49	15.72	15.19	15.11	16.50
		1	50	15.66	15.54	15.59	15.01	15.13	16.50
		1	99	15.82	15.73	15.45	15.27	14.86	16.50
		50	0	15.47	15.37	15.65	15.14	15.15	16.50
		50	25	15.66	15.51	15.24	15.24	15.07	16.50
		50	50	15.39	15.40	15.38	15.03	15.00	16.50
		100	0	15.62	15.60	15.54	15.20	15.05	16.50

	256QAM	1	0	15.33	15.35	15.68	15.33	15.41	16.50
		1	50	15.15	14.95	15.31	15.03	15.11	16.50
		1	99	15.23	14.90	15.41	14.87	14.96	16.50
		50	0	14.98	15.27	15.51	15.16	15.05	16.50
		50	25	15.36	15.05	15.60	15.12	15.27	16.50
		50	50	15.17	15.10	15.58	15.07	15.14	16.50
		100	0	15.12	15.21	15.42	15.18	14.97	16.50

LTE B66							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.06	22.80	23.04	24.00
		1	2	23.03	22.77	23.02	24.00
		1	5	23.04	22.78	23.05	24.00
		3	0	23.02	22.75	23.01	24.00
		3	2	23.02	22.74	23.00	24.00
		3	3	23.03	22.76	23.03	24.00
		6	0	22.07	21.78	22.06	23.00
	16QAM	1	0	22.25	22.17	22.29	23.00
		1	2	22.28	22.06	22.26	23.00
		1	5	22.26	22.09	22.30	23.00
		3	0	22.09	21.76	22.06	23.00
		3	2	22.05	21.80	22.09	23.00
		3	3	22.07	21.81	22.05	23.00
		6	0	21.13	20.85	21.12	22.00
	64QAM	1	0	21.23	21.01	21.24	22.00
		1	2	21.17	20.91	21.21	22.00
		1	5	21.17	20.96	21.23	22.00
		3	0	21.18	20.90	21.16	22.00
		3	2	21.14	20.89	21.18	22.00
		3	3	21.14	20.84	21.19	22.00
		6	0	20.04	19.75	20.05	21.00
	256QAM	1	0	20.11	20.15	20.01	21.00
		1	2	19.70	19.75	20.20	21.00
		1	5	19.86	19.91	19.92	21.00
		3	0	19.89	19.53	19.39	21.00
		3	2	19.60	19.59	19.72	21.00
		3	3	19.65	19.44	19.82	21.00
		6	0	18.94	18.62	18.72	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.00	22.77	23.08	24.00

		1	7	22.98	22.83	23.07	24.00
		1	14	22.97	22.77	23.01	24.00
		8	0	22.12	21.81	22.06	23.00
		8	4	22.08	21.81	22.04	23.00
		8	7	22.06	21.83	22.04	23.00
		15	0	22.08	21.83	22.06	23.00
	16QAM	1	0	22.32	22.01	22.22	23.00
		1	7	22.27	21.97	22.22	23.00
		1	14	22.26	22.02	22.23	23.00
		8	0	21.15	20.87	21.15	22.00
		8	4	21.15	20.89	21.12	22.00
		8	7	21.10	20.90	21.08	22.00
		15	0	21.11	20.86	21.07	22.00
	64QAM	1	0	21.16	20.97	21.22	22.00
		1	7	21.12	20.95	21.22	22.00
		1	14	21.11	20.98	21.20	22.00
		8	0	20.14	19.89	20.14	21.00
		8	4	20.12	19.88	20.10	21.00
		8	7	20.10	19.89	20.13	21.00
		15	0	20.05	19.82	20.01	21.00
	256QAM	1	0	20.39	19.91	19.83	21.00
		1	7	19.70	19.93	19.90	21.00
		1	14	19.86	19.73	19.48	21.00
		8	0	18.71	18.61	18.89	20.00
		8	4	18.50	18.65	18.62	20.00
		8	7	18.87	18.52	18.80	20.00
		15	0	18.48	18.64	18.88	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.07	22.90	23.05	24.00
		1	13	23.08	22.77	23.04	24.00
		1	24	23.01	22.81	23.07	24.00
		12	0	22.13	21.89	22.11	23.00
		12	6	22.08	21.91	22.08	23.00
		12	13	22.08	21.91	22.09	23.00
		25	0	22.11	21.91	22.12	23.00
	16QAM	1	0	22.34	22.06	22.32	23.00
		1	13	22.28	22.05	22.33	23.00
		1	24	22.31	22.12	22.32	23.00
		12	0	21.15	20.88	21.16	22.00
		12	6	21.12	20.87	21.09	22.00
		12	13	21.10	20.89	21.09	22.00
		25	0	21.10	20.89	21.10	22.00

	64QAM	1	0	21.28	21.06	21.23	22.00
		1	13	21.22	21.01	21.19	22.00
		1	24	21.22	21.04	21.21	22.00
		12	0	20.14	19.89	20.14	21.00
		12	6	20.11	19.93	20.11	21.00
		12	13	20.11	19.92	20.10	21.00
		25	0	20.09	19.89	20.10	21.00
	256QAM	1	0	20.25	20.01	19.79	21.00
		1	13	19.66	19.69	20.04	21.00
		1	24	19.82	19.67	19.90	21.00
		12	0	19.11	18.61	18.77	20.00
		12	6	18.90	18.77	18.80	20.00
		12	13	18.77	18.80	18.86	20.00
		25	0	18.86	18.60	19.02	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.10	22.91	23.08	24.00
		1	25	23.04	22.82	23.06	24.00
		1	49	23.07	22.90	23.13	24.00
		25	0	22.13	21.87	22.10	23.00
		25	13	22.09	21.90	22.10	23.00
		25	25	22.06	21.92	22.10	23.00
		50	0	22.08	21.90	22.09	23.00
	16QAM	1	0	22.36	22.19	22.27	23.00
		1	25	22.29	22.08	22.27	23.00
		1	49	22.34	22.14	22.30	23.00
		25	0	21.13	20.88	21.12	22.00
		25	13	21.06	20.92	21.11	22.00
		25	25	21.06	20.92	21.10	22.00
		50	0	21.07	20.91	21.10	22.00
	64QAM	1	0	21.30	21.05	21.21	22.00
		1	25	21.19	20.96	21.20	22.00
		1	49	21.24	21.03	21.27	22.00
		25	0	20.11	19.87	20.10	21.00
		25	13	20.04	19.89	20.10	21.00
		25	25	20.04	19.91	20.09	21.00
		50	0	20.05	19.88	20.10	21.00
	256QAM	1	0	20.29	20.15	19.99	21.00
		1	25	19.94	19.65	19.96	21.00
		1	49	19.80	19.89	19.94	21.00
		25	0	18.83	18.73	18.65	20.00
		25	13	18.66	18.57	18.82	20.00
		25	25	18.53	18.68	18.88	20.00

		50	0	18.76	18.56	19.06	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.12	22.94	23.07	24.00
		1	38	23.03	22.89	23.02	24.00
		1	74	22.97	22.91	23.04	24.00
		36	0	22.13	21.89	22.08	23.00
		36	18	22.07	21.89	22.08	23.00
		36	39	22.00	21.95	22.07	23.00
		75	0	22.10	21.91	22.11	23.00
	16QAM	1	0	22.37	22.24	22.38	23.00
		1	38	22.30	22.09	22.37	23.00
		1	74	22.28	22.11	22.35	23.00
		36	0	21.13	20.89	21.09	22.00
		36	18	21.07	20.90	21.07	22.00
		36	39	21.00	20.94	21.09	22.00
		75	0	21.11	20.93	21.12	22.00
	64QAM	1	0	21.33	21.12	21.22	22.00
		1	38	21.23	21.02	21.18	22.00
		1	74	21.14	21.01	21.23	22.00
		36	0	20.14	19.91	20.10	21.00
		36	18	20.09	19.92	20.09	21.00
		36	39	20.03	19.98	20.11	21.00
		75	0	20.09	19.92	20.11	21.00
	256QAM	1	0	20.25	20.03	19.79	21.00
		1	38	19.92	19.79	19.94	21.00
		1	74	19.78	19.79	19.92	21.00
		36	0	18.97	18.41	18.77	20.00
		36	18	18.94	18.79	18.64	20.00
		36	39	18.77	18.78	18.84	20.00
		75	0	18.76	18.64	18.96	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	23.20	23.18	23.04	24.00
		1	50	23.09	22.87	22.99	24.00
		1	99	22.96	22.85	23.06	24.00
		50	0	22.15	21.96	22.13	23.00
		50	25	22.11	21.96	22.10	23.00
		50	50	22.01	21.99	22.08	23.00
		100	0	22.09	21.94	22.08	23.00
	16QAM	1	0	22.51	22.30	22.31	23.00
		1	50	22.44	22.16	22.30	23.00
		1	99	22.31	22.12	22.40	23.00

		50	0	21.14	20.93	21.14	22.00
		50	25	21.11	20.95	21.11	22.00
		50	50	21.00	20.99	21.08	22.00
		100	0	21.05	20.92	21.07	22.00
	64QAM	1	0	21.28	21.18	21.20	22.00
		1	50	21.17	21.08	21.15	22.00
		1	99	21.11	21.08	21.19	22.00
		50	0	20.12	19.92	20.10	21.00
		50	25	20.07	19.94	20.09	21.00
		50	50	19.98	19.97	20.05	21.00
		100	0	20.05	19.93	20.07	21.00
	256QAM	1	0	20.09	19.97	19.85	21.00
		1	50	19.76	19.75	20.00	21.00
		1	99	19.68	19.77	19.76	21.00
		50	0	18.95	18.53	18.65	20.00
		50	25	18.78	18.67	18.66	20.00
		50	50	18.63	18.74	18.84	20.00
		100	0	18.84	18.62	18.86	20.00

LTE B66							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	12.65	13.05	12.77	14.00
		1	2	12.64	12.43	12.61	14.00
		1	5	12.65	12.50	12.65	14.00
		3	0	12.70	12.47	12.68	14.00
		3	2	12.69	12.48	12.66	14.00
		3	3	12.70	12.46	12.67	14.00
		6	0	12.73	12.51	12.72	14.00
	16QAM	1	0	12.96	12.77	12.97	14.00
		1	2	12.99	12.72	13.01	14.00
		1	5	12.99	12.75	12.95	14.00
		3	0	12.72	12.54	12.69	14.00
		3	2	12.76	12.53	12.69	14.00
		3	3	12.74	12.53	12.67	14.00
		6	0	12.82	12.57	12.76	14.00
	64QAM	1	0	12.93	12.71	12.85	14.00
		1	2	12.85	12.69	12.79	14.00
		1	5	12.93	12.70	12.83	14.00
		3	0	12.82	12.68	12.84	14.00
		3	2	12.80	12.60	12.80	14.00
		3	3	12.79	12.61	12.86	14.00

		6	0	12.70	12.49	12.67	14.00
	256QAM	1	0	13.29	12.77	12.97	14.00
		1	2	12.91	12.65	13.03	14.00
		1	5	12.78	12.84	12.74	14.00
		3	0	12.98	12.52	12.77	14.00
		3	2	12.67	12.55	12.87	14.00
		3	3	12.89	12.82	12.63	14.00
		6	0	12.90	12.58	12.64	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	12.60	12.52	13.25	14.00
		1	7	12.62	12.41	12.66	14.00
		1	14	12.63	12.43	12.62	14.00
		8	0	12.73	12.49	12.68	14.00
		8	4	12.72	12.47	12.68	14.00
		8	7	12.69	12.51	12.66	14.00
		15	0	12.75	12.53	12.68	14.00
	16QAM	1	0	13.00	12.83	12.86	14.00
		1	7	13.01	12.78	12.93	14.00
		1	14	12.98	12.73	12.91	14.00
		8	0	12.81	12.56	12.73	14.00
		8	4	12.78	12.54	12.72	14.00
		8	7	12.74	12.60	12.72	14.00
		15	0	12.74	12.54	12.69	14.00
	64QAM	1	0	12.88	12.63	12.72	14.00
		1	7	12.80	12.67	12.78	14.00
		1	14	12.85	12.66	12.75	14.00
		8	0	12.81	12.61	12.76	14.00
		8	4	12.80	12.58	12.74	14.00
		8	7	12.76	12.60	12.78	14.00
		15	0	12.74	12.52	12.66	14.00
	256QAM	1	0	13.15	12.79	13.05	14.00
		1	7	13.01	12.77	12.99	14.00
		1	14	12.78	12.94	12.74	14.00
		8	0	13.06	12.46	12.65	14.00
		8	4	12.49	12.43	12.93	14.00
		8	7	12.73	12.70	12.61	14.00
		15	0	12.80	12.56	12.62	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	12.69	12.60	12.89	14.00
		1	13	12.67	12.45	12.61	14.00
		1	24	12.65	12.53	12.67	14.00

		12	0	12.79	12.55	12.71	14.00
		12	6	12.74	12.57	12.72	14.00
		12	13	12.72	12.57	12.71	14.00
		25	0	12.78	12.60	12.71	14.00
	16QAM	1	0	13.01	12.83	12.88	14.00
		1	13	12.94	12.76	12.86	14.00
		1	24	12.93	12.79	12.93	14.00
		12	0	12.83	12.60	12.73	14.00
		12	6	12.78	12.61	12.73	14.00
		12	13	12.76	12.59	12.73	14.00
		25	0	12.78	12.59	12.71	14.00
	64QAM	1	0	12.98	12.79	12.85	14.00
		1	13	12.85	12.74	12.77	14.00
		1	24	12.90	12.70	12.88	14.00
		12	0	12.86	12.62	12.73	14.00
		12	6	12.80	12.62	12.76	14.00
		12	13	12.79	12.64	12.75	14.00
		25	0	12.76	12.60	12.69	14.00
	256QAM	1	0	13.01	12.81	13.05	14.00
		1	13	12.79	12.89	13.03	14.00
		1	24	12.76	12.74	12.98	14.00
		12	0	12.80	12.62	12.71	14.00
		12	6	12.79	12.69	12.83	14.00
		12	13	12.61	12.56	12.75	14.00
		25	0	12.74	12.54	12.62	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	12.60	12.56	12.31	14.00
		1	25	12.55	12.42	12.51	14.00
		1	49	12.56	12.41	12.62	14.00
		25	0	12.70	12.46	12.57	14.00
		25	13	12.63	12.50	12.61	14.00
		25	25	12.58	12.49	12.60	14.00
		50	0	12.65	12.48	12.58	14.00
	16QAM	1	0	12.93	12.80	12.78	14.00
		1	25	12.84	12.67	12.78	14.00
		1	49	12.79	12.71	12.86	14.00
		25	0	12.70	12.48	12.56	14.00
		25	13	12.63	12.50	12.57	14.00
		25	25	12.57	12.49	12.57	14.00
		50	0	12.67	12.49	12.56	14.00
	64QAM	1	0	12.88	12.62	12.71	14.00
		1	25	12.75	12.58	12.65	14.00

		1	49	12.70	12.62	12.80	14.00
		25	0	12.69	12.43	12.57	14.00
		25	13	12.60	12.46	12.58	14.00
		25	25	12.55	12.46	12.60	14.00
		50	0	12.64	12.50	12.56	14.00
	256QAM	1	0	12.65	12.87	12.87	14.00
		1	25	12.45	12.53	12.77	14.00
		1	49	12.66	12.44	12.74	14.00
		25	0	12.76	12.54	12.65	14.00
		25	13	12.47	12.55	12.67	14.00
		25	25	12.57	12.46	12.55	14.00
		50	0	12.66	12.56	12.52	14.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	12.40	12.38	12.66	14.00
		1	38	12.52	12.38	12.54	14.00
		1	74	12.49	12.38	12.61	14.00
		36	0	12.69	12.47	12.59	14.00
		36	18	12.58	12.47	12.53	14.00
		36	39	12.53	12.46	12.57	14.00
		75	0	12.62	12.49	12.59	14.00
	16QAM	1	0	12.93	12.84	12.84	14.00
		1	38	12.77	12.67	12.82	14.00
		1	74	12.81	12.71	12.88	14.00
		36	0	12.68	12.48	12.60	14.00
		36	18	12.58	12.47	12.55	14.00
		36	39	12.53	12.46	12.59	14.00
		75	0	12.63	12.50	12.61	14.00
	64QAM	1	0	12.90	12.70	12.68	14.00
		1	38	12.78	12.57	12.71	14.00
		1	74	12.74	12.54	12.74	14.00
		36	0	12.70	12.51	12.61	14.00
		36	18	12.60	12.55	12.58	14.00
		36	39	12.54	12.49	12.60	14.00
		75	0	12.62	12.51	12.56	14.00
	256QAM	1	0	12.65	12.67	12.89	14.00
		1	38	12.87	12.83	12.75	14.00
		1	74	12.74	12.84	12.68	14.00
		36	0	12.88	12.32	12.59	14.00
		36	18	12.83	12.61	12.67	14.00
		36	39	12.43	12.54	12.43	14.00
		75	0	12.66	12.66	12.74	14.00

Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	12.66	12.63	12.62	14.00
		1	50	12.58	12.44	12.53	14.00
		1	99	12.51	12.43	12.63	14.00
		50	0	12.90	12.51	12.65	14.00
		50	25	12.62	12.54	12.64	14.00
		50	50	12.57	12.50	12.60	14.00
		100	0	12.67	12.52	12.62	14.00
	16QAM	1	0	12.98	12.89	12.79	14.00
		1	50	12.80	12.75	12.78	14.00
		1	99	12.77	12.76	12.90	14.00
		50	0	12.75	12.48	12.64	14.00
		50	25	12.62	12.52	12.61	14.00
		50	50	12.56	12.50	12.61	14.00
		100	0	12.66	12.48	12.62	14.00
	64QAM	1	0	12.83	12.79	12.81	14.00
		1	50	12.65	12.63	12.79	14.00
		1	99	12.64	12.64	12.82	14.00
		50	0	12.74	12.50	12.63	14.00
		50	25	12.61	12.53	12.59	14.00
		50	50	12.57	12.48	12.59	14.00
		100	0	12.66	12.52	12.62	14.00
	256QAM	1	0	12.89	12.97	12.71	14.00
		1	50	12.81	12.71	12.79	14.00
		1	99	12.66	12.52	12.90	14.00
		50	0	12.72	12.44	12.79	14.00
		50	25	12.75	12.67	12.73	14.00
		50	50	12.49	12.40	12.63	14.00
		100	0	12.58	12.40	12.70	14.00

LTE B71							
Pmax&Sensor off--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				133147/665.5	133297/680.5	133447/695.5	
5MHz	QPSK	1	0	22.55	22.72	22.62	24.00
		1	13	22.52	22.54	22.62	24.00
		1	24	22.65	22.59	22.81	24.00
		12	0	21.51	21.54	21.51	23.00
		12	6	21.48	21.44	21.56	23.00
		12	13	21.48	21.65	21.66	23.00
		25	0	21.76	21.66	21.60	23.00
	16QAM	1	0	21.98	22.06	22.08	23.00

		1	13	21.68	22.05	22.05	23.00
		1	24	21.59	21.85	21.95	23.00
		12	0	20.50	20.71	20.54	22.00
		12	6	20.39	20.53	20.49	22.00
		12	13	20.53	20.45	20.47	22.00
		25	0	20.53	20.47	20.58	22.00
	64QAM	1	0	20.70	20.88	20.84	22.00
		1	13	20.86	20.74	20.78	22.00
		1	24	20.59	20.71	20.91	22.00
		12	0	19.62	19.72	19.74	21.00
		12	6	19.75	19.45	19.53	21.00
		12	13	19.82	19.78	19.88	21.00
		25	0	19.88	19.90	19.94	21.00
	256QAM	1	0	19.32	19.54	19.46	21.00
		1	13	19.64	19.54	19.54	21.00
		1	24	19.39	19.43	19.45	21.00
		12	0	18.48	18.64	18.60	20.00
		12	6	18.41	18.07	18.15	20.00
		12	13	18.22	18.26	18.42	20.00
		25	0	18.62	18.50	18.54	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133172/668	133297/680.5	133422/693	
10MHz	QPSK	1	0	22.65	22.80	22.92	24.00
		1	25	22.70	22.62	22.62	24.00
		1	49	22.67	22.73	22.75	24.00
		25	0	21.49	21.54	21.71	23.00
		25	13	21.44	21.70	21.78	23.00
		25	25	21.64	21.73	21.78	23.00
		50	0	21.72	21.60	21.46	23.00
	16QAM	1	0	22.16	21.86	22.24	23.00
		1	25	21.66	21.97	22.39	23.00
		1	49	21.91	22.21	22.29	23.00
		25	0	20.60	20.63	20.64	22.00
		25	13	20.75	20.47	20.57	22.00
		25	25	20.61	20.79	20.47	22.00
		50	0	20.53	20.75	20.70	22.00
	64QAM	1	0	20.74	20.72	20.90	22.00
		1	25	21.22	20.76	20.94	22.00
		1	49	20.75	20.63	20.83	22.00
		25	0	19.56	19.84	19.94	21.00
		25	13	19.89	19.75	19.59	21.00
		25	25	19.82	19.70	19.82	21.00
		50	0	20.08	19.74	20.12	21.00

	256QAM	1	0	19.36	19.32	19.72	21.00
		1	25	19.76	19.62	19.66	21.00
		1	49	19.27	19.43	19.37	21.00
		25	0	18.60	18.68	18.48	20.00
		25	13	18.57	18.05	18.21	20.00
		25	25	18.40	18.42	18.40	20.00
		50	0	18.54	18.20	18.34	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133197/670.5	133297/680.5	133397/690.5	
15MHz	QPSK	1	0	22.81	22.72	22.68	24.00
		1	38	22.62	22.90	22.74	24.00
		1	74	22.53	22.77	22.69	24.00
		36	0	21.69	21.70	21.73	23.00
		36	18	21.76	21.66	21.64	23.00
		36	39	21.62	21.45	21.74	23.00
		75	0	21.54	21.62	21.78	23.00
	16QAM	1	0	22.00	22.16	22.18	23.00
		1	38	21.68	21.95	22.33	23.00
		1	74	21.67	21.95	22.05	23.00
		36	0	20.68	20.53	20.56	22.00
		36	18	20.65	20.79	20.81	22.00
		36	39	20.87	20.63	20.69	22.00
		75	0	20.53	20.67	20.78	22.00
	64QAM	1	0	20.82	20.98	20.78	22.00
		1	38	21.18	21.12	21.04	22.00
		1	74	20.85	20.91	20.85	22.00
		36	0	19.74	19.84	19.88	21.00
		36	18	20.01	19.81	19.73	21.00
		36	39	19.86	19.74	19.70	21.00
		75	0	20.12	19.94	19.90	21.00
	256QAM	1	0	19.26	19.52	19.62	21.00
		1	38	19.92	19.36	19.54	21.00
		1	74	19.29	19.49	19.63	21.00
		36	0	18.52	18.64	18.42	20.00
		36	18	18.41	18.13	18.17	20.00
		36	39	18.48	18.12	18.24	20.00
		75	0	18.52	18.36	18.62	20.00
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133222/673	133322/683	133372/688	
20MHz	QPSK	1	0	22.63	22.78	22.72	24.00
		1	50	22.64	22.74	22.80	24.00
		1	99	22.57	22.69	22.73	24.00
		50	0	21.61	21.60	21.65	23.00

		50	25	21.60	21.52	21.62	23.00
		50	50	21.68	21.57	21.64	23.00
		100	0	21.66	21.58	21.64	23.00
	16QAM	1	0	22.10	21.98	22.22	23.00
		1	50	21.72	22.01	22.21	23.00
		1	99	21.71	21.99	22.11	23.00
		50	0	20.64	20.65	20.64	22.00
		50	25	20.55	20.63	20.69	22.00
		50	50	20.71	20.61	20.59	22.00
		100	0	20.63	20.63	20.62	22.00
	64QAM	1	0	20.76	20.86	20.78	22.00
		1	50	21.04	20.94	20.88	22.00
		1	99	20.79	20.79	20.85	22.00
		50	0	19.72	19.82	19.72	21.00
		50	25	19.87	19.65	19.69	21.00
		50	50	19.86	19.76	19.82	21.00
		100	0	20.08	19.88	19.96	21.00
	256QAM	1	0	19.34	19.40	19.50	21.00
		1	50	19.74	19.46	19.58	21.00
		1	99	19.41	19.35	19.49	21.00
		50	0	18.40	18.56	18.44	20.00
		50	25	18.51	18.09	18.21	20.00
		50	50	18.32	18.20	18.36	20.00
		100	0	18.52	18.36	18.48	20.00

LTE B71							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			
				133147/665.5	133297/680.5	133447/695.5	
5MHz	QPSK	1	0	18.92	19.02	19.03	20.50
		1	13	19.05	18.99	19.16	20.50
		1	24	19.33	18.85	19.09	20.50
		12	0	18.91	19.18	18.94	20.50
		12	6	18.89	18.97	18.92	20.50
		12	13	19.21	19.11	19.12	20.50
		25	0	19.30	19.33	18.99	20.50
	16QAM	1	0	19.36	19.26	18.90	20.50
		1	13	19.29	19.39	19.24	20.50
		1	24	19.08	19.33	19.25	20.50
		12	0	19.18	19.28	18.98	20.50
		12	6	19.23	19.08	19.04	20.50
		12	13	19.04	19.14	19.18	20.50
		25	0	19.07	19.16	19.18	20.50

	64QAM	1	0	19.13	19.07	18.88	20.50
		1	13	19.12	19.04	19.17	20.50
		1	24	19.18	19.08	19.08	20.50
		12	0	18.92	18.87	19.13	20.50
		12	6	18.90	18.82	19.13	20.50
		12	13	19.26	19.18	19.25	20.50
		25	0	19.11	19.10	19.10	20.50
	256QAM	1	0	19.33	19.67	18.99	20.50
		1	13	19.32	19.44	19.37	20.50
		1	24	19.31	19.56	19.52	20.50
		12	0	18.95	18.81	18.97	20.50
		12	6	19.16	18.95	18.93	20.50
		12	13	19.07	18.99	19.23	20.50
		25	0	19.08	19.09	18.97	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133172/668	133297/680.5	133422/693	
10MHz	QPSK	1	0	19.24	19.24	19.17	20.50
		1	25	19.07	19.13	19.16	20.50
		1	49	19.15	19.15	19.23	20.50
		25	0	19.03	19.24	19.12	20.50
		25	13	19.07	18.93	19.20	20.50
		25	25	19.05	19.11	19.16	20.50
		50	0	19.08	19.09	19.19	20.50
	16QAM	1	0	19.54	19.74	19.10	20.50
		1	25	19.57	19.53	19.66	20.50
		1	49	19.40	19.39	19.35	20.50
		25	0	19.12	19.10	19.28	20.50
		25	13	19.09	19.08	19.12	20.50
		25	25	19.20	19.12	19.12	20.50
		50	0	19.19	19.02	19.20	20.50
	64QAM	1	0	18.95	19.21	19.10	20.50
		1	25	18.98	19.34	19.15	20.50
		1	49	19.32	19.30	19.34	20.50
		25	0	19.16	19.11	19.09	20.50
		25	13	19.20	19.00	19.37	20.50
		25	25	19.14	19.34	19.13	20.50
		50	0	19.17	19.12	19.04	20.50
	256QAM	1	0	19.57	19.59	19.19	20.50
		1	25	19.52	19.40	19.31	20.50
		1	49	19.59	19.56	19.58	20.50
		25	0	18.93	19.19	19.29	20.50
		25	13	18.98	19.03	19.13	20.50
		25	25	19.37	19.01	19.09	20.50

		50	0	19.10	19.41	18.85	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133197/670.5	133297/680.5	133397/690.5	
15MHz	QPSK	1	0	19.10	19.08	19.27	20.50
		1	38	19.17	19.21	19.32	20.50
		1	74	19.47	19.17	19.31	20.50
		36	0	19.25	19.06	19.34	20.50
		36	18	19.23	19.19	19.14	20.50
		36	39	19.33	19.11	19.36	20.50
		75	0	19.14	19.15	19.21	20.50
	16QAM	1	0	19.58	19.80	19.14	20.50
		1	38	19.55	19.73	19.72	20.50
		1	74	19.68	19.55	19.59	20.50
		36	0	19.02	19.10	19.18	20.50
		36	18	19.27	19.08	19.08	20.50
		36	39	19.32	19.26	19.04	20.50
		75	0	19.23	19.18	19.20	20.50
	64QAM	1	0	19.25	19.13	19.06	20.50
		1	38	19.20	19.28	19.25	20.50
		1	74	19.40	19.28	19.20	20.50
		36	0	19.00	19.23	19.43	20.50
		36	18	19.04	18.90	19.15	20.50
		36	39	19.10	19.12	19.27	20.50
		75	0	19.05	19.18	19.02	20.50
	256QAM	1	0	19.27	19.87	19.27	20.50
		1	38	19.58	19.60	19.23	20.50
		1	74	19.41	19.58	19.42	20.50
		36	0	19.01	19.13	19.01	20.50
		36	18	19.18	18.93	19.29	20.50
		36	39	19.31	19.09	19.05	20.50
		75	0	19.16	19.43	19.15	20.50
Bandwidth	Modulation	RB Allocation	Offset	Channel/Frequency(MHz)			Tune-up
				133222/673	133322/683	133372/688	
20MHz	QPSK	1	0	19.20	19.14	19.23	20.50
		1	50	19.25	19.19	19.16	20.50
		1	99	19.56	19.13	19.19	20.50
		50	0	19.11	19.14	19.20	20.50
		50	25	19.13	19.05	19.18	20.50
		50	50	19.21	19.17	19.42	20.50
		100	0	19.12	19.15	19.25	20.50
	16QAM	1	0	19.58	19.70	19.22	20.50
		1	50	19.55	19.73	19.56	20.50
		1	99	19.52	19.55	19.45	20.50

		50	0	19.12	19.20	19.24	20.50
		50	25	19.15	19.12	19.16	20.50
		50	50	19.18	19.22	19.14	20.50
		100	0	19.13	19.22	19.12	20.50
	64QAM	1	0	19.07	19.17	19.04	20.50
		1	50	19.04	19.20	19.13	20.50
		1	99	19.26	19.20	19.24	20.50
		50	0	18.96	19.07	19.27	20.50
		50	25	19.02	18.88	19.19	20.50
		50	50	19.16	19.24	19.27	20.50
		100	0	19.05	19.12	19.06	20.50
		1	0	19.37	19.75	19.11	20.50
	256QAM	1	50	19.46	19.58	19.35	20.50
		1	99	19.37	19.62	19.44	20.50
		50	0	18.99	18.99	19.11	20.50
		50	25	19.10	18.99	19.13	20.50
		50	50	19.21	19.15	19.13	20.50
		100	0	19.02	19.25	18.97	20.50

DL Intra Band Contiguous Measured Results

CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)
	Mode	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Channel	Fre (MHz)				
CA_2C	QPSK	20	18801	1870.1	1,50	20	999	1969.9	40	0	23.58	23.58
CA_66B	QPSK	15	132273	1740.1	1,38	5	66835	2149.9	20	0	23.01	23.03
CA_66C	QPSK	20	132223	1735.1	1,50	20	66885	2154.9	40	0	23.03	23.03
CA_41C	QPSK	20	40521	2583.1	1,50	20	40719	2602.9	40	0	22.89	22.90
CA_n71B	DFT-s-OFDM BPSK	15	136100	680.5	1,1	5	128860	644.3	20	0	22.52	22.52

DL Intra Band Non-Contiguous Measured Results

CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)
	Mode	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Channel	Fre (MHz)				
CA_2A-2A	QPSK	20	18700	1860	1,50	20	1100	1980	40	0	23.56	23.58
CA_4A-4A	QPSK	20	20050	1720	1,50	20	2300	2145	40	0	23.16	23.16
CA_25A-25A	QPSK	20	26140	1860	1,50	20	8590	1985	40	0	23.52	23.52
CA_66A-66A	QPSK	20	132072	1720	1,50	20	67035	2169.9	40	0	23.01	23.03
CA_41A-41A	QPSK	20	39750	2506	1,50	20	41490	2680	40	0	22.90	22.90

DL Inter Band(2 Bands)Measured Results												
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)
	Mode	BW (MHz)	Channel	Fre (MHz)	RB, Offset	BW (MHz)	Channel	Fre (MHz)				
CA_2A-4A	QPSK	20	18900	1880	1,0	20	2175	2132.5	40	0	23.52	23.58
CA_2A-5A	QPSK	20	18900	1880	1,0	10	2600	889	30	0	23.58	23.58
CA_2A-12A	QPSK	20	18900	1880	1,0	10	5095	737.5	30	0	23.54	23.58
CA_2A-66A	QPSK	20	18900	1880	1,0	20	66786	2145	40	0	23.56	23.58
CA_2A-71A	QPSK	20	18900	1880	1,0	20	68786	637	40	0	23.58	23.58
CA_4A-5A	QPSK	20	20175	1732.5	1,0	10	2525	881.5	30	0	23.10	23.16
CA_4A-12A	QPSK	20	20175	1732.5	1,0	10	5095	737.5	30	0	23.16	23.16
CA_4A-71A	QPSK	20	20175	1732.5	1,0	20	68786	637	40	0	23.16	23.16
CA_5A-66A	QPSK	10	20525	836.5	1,0	20	66786	2145	30	0	22.89	22.90
CA_12A-66A	QPSK	10	23095	707.5	1,0	20	66786	2145	30	0	22.86	22.86
CA_66A-71A	QPSK	20	132322	1745	1,0	20	68786	637	40	0	23.03	23.03
CA_n25A-n66A	DFT-s-OFDM BPSK	20	376500	1882.5	1,1	20	429000	2145	40	0	22.25	22.25
CA_n25A-n41A	DFT-s-OFDM BPSK	20	376500	1882.5	1,1	20	518600	2593	40	0	22.25	22.25
CA_n25A-n71A	DFT-s-OFDM BPSK	20	376500	1882.5	1,1	20	127400	637	40	0	22.22	22.25
CA_n66A-n71A	DFT-s-OFDM BPSK	20	349000	1745	1,1	20	127400	637	40	0	22.75	22.77
CA_n66A-n41A	DFT-s-OFDM BPSK	20	349000	1745	1,1	20	518600	2593	40	0	22.77	22.77

9.4 NR Mode

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM	≤ 2.5		
DFT-s-OFDM 256 QAM	≤ 4.5		
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM	≤ 3.5		
CP-OFDM 256 QAM	≤ 6.5		
NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.			
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.			

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

n25							
Pmax&Sensor off-Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376500/1882.5	382500/1912.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.57	22.49	22.09	24.00
		1	23	22.40	22.26	22.14	24.00
		12	6	22.39	22.10	22.65	24.00

		25	0	21.30	21.59	21.15	23.00
	DFT-s-OFDM QPSK	1	1	22.05	22.39	22.23	24.00
		1	23	22.12	22.18	22.38	24.00
		12	6	22.23	22.34	22.07	24.00
		25	0	21.26	21.21	21.47	23.00
	DFT-s-OFDM 16QAM	1	1	21.39	21.31	21.45	22.50
		12	6	21.34	21.32	21.46	22.50
	DFT-s-OFDM 64QAM	1	1	19.85	19.81	19.99	21.50
		12	6	20.03	20.11	19.87	21.50
	DFT-s-OFDM 256QAM	1	1	17.65	17.65	18.07	19.50
		12	6	17.91	17.81	17.89	19.50
	CP-OFDM QPSK	1	1	22.53	22.43	22.39	23.00
	CP-OFDM 16QAM	1	1	21.08	21.16	21.26	22.00
	CP-OFDM 64QAM	1	1	19.99	19.85	19.41	20.50
	CP-OFDM 256QAM	1	1	16.79	16.67	16.45	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376500/1882.5	382000/1910	
10MHz	DFT-s-OFDM BPSK	1	1	22.39	22.43	22.09	24.00
		1	50	22.52	22.12	22.20	24.00
		25	12	22.29	22.10	22.47	24.00
		50	0	21.32	21.61	21.13	23.00
	DFT-s-OFDM QPSK	1	1	22.05	22.39	22.19	24.00
		1	50	22.16	22.08	22.30	24.00
		25	12	22.05	22.28	22.07	24.00
		50	0	21.10	21.23	21.31	23.00
	DFT-s-OFDM 16QAM	1	1	21.27	21.27	21.43	22.50
		25	12	21.32	21.28	21.30	22.50
	DFT-s-OFDM 64QAM	1	1	19.69	19.63	19.91	21.50
		25	12	20.03	20.01	19.97	21.50
	DFT-s-OFDM 256QAM	1	1	17.75	17.91	17.99	19.50
		25	12	18.11	17.83	17.69	19.50
	CP-OFDM QPSK	1	1	22.49	22.17	22.55	23.00
	CP-OFDM 16QAM	1	1	21.12	21.26	21.18	22.00
	CP-OFDM 64QAM	1	1	19.87	19.79	19.47	20.50
	CP-OFDM 256QAM	1	1	16.67	16.49	16.35	17.50
Bandwidth	Modulation	RB	offset	Channel/Frequency(MHz)			Tune-up

		allocation		371500/1857.5	376500/1882.5	38150/1907.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.29	22.41	22.23	24.00
		1	77	22.22	22.36	22.14	24.00
		36	18	22.29	22.20	22.05	24.00
		75	0	21.26	21.37	21.09	23.00
	DFT-s-OFDM QPSK	1	1	22.05	22.63	22.35	24.00
		1	77	22.06	22.14	22.14	24.00
		36	18	22.35	22.18	22.37	24.00
		75	0	21.20	21.19	21.27	23.00
	DFT-s-OFDM 16QAM	1	1	21.61	21.43	21.63	22.50
		36	18	21.22	21.26	21.38	22.50
	DFT-s-OFDM 64QAM	1	1	19.73	19.67	19.91	21.50
		36	18	20.09	19.93	20.05	21.50
	DFT-s-OFDM 256QAM	1	1	17.63	17.59	18.13	19.50
		36	18	17.67	17.67	17.85	19.50
	CP-OFDM QPSK	1	1	22.43	22.25	22.39	23.00
	CP-OFDM 16QAM	1	1	21.00	21.16	21.18	22.00
	CP-OFDM 64QAM	1	1	19.77	19.63	19.55	20.50
	CP-OFDM 256QAM	1	1	16.67	16.47	16.61	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376500/1882.5	381000/1905	
20MHz	DFT-s-OFDM BPSK	1	1	22.33	22.57	22.31	24.00
		1	104	22.18	22.12	22.14	24.00
		50	25	22.21	22.40	22.03	24.00
		100	0	21.08	21.15	21.01	23.00
	DFT-s-OFDM QPSK	1	1	22.23	22.41	22.29	24.00
		1	104	22.00	22.02	22.10	24.00
		50	25	22.25	22.12	22.21	24.00
		100	0	21.32	21.15	21.09	23.00
	DFT-s-OFDM 16QAM	1	1	21.41	21.31	21.61	22.50
		50	25	21.26	21.08	21.14	22.50
	DFT-s-OFDM 64QAM	1	1	19.73	19.77	19.99	21.50
		50	25	20.15	20.03	19.73	21.50
	DFT-s-OFDM 256QAM	1	1	17.91	17.95	17.81	19.50
		50	25	17.83	17.77	17.91	19.50
	CP-OFDM QPSK	1	1	22.47	22.45	22.33	23.00
	CP-OFDM 16QAM	1	1	20.96	21.20	21.10	22.00
	CP-OFDM	1	1	20.01	19.81	19.69	20.50

	64QAM						
	CP-OFDM 256QAM	1	1	16.79	16.69	16.53	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500 /1862.5	376500/1882.5	380500/1902.5	
25MHz	DFT-s-OFDM BPSK	1	1	22.33	22.37	22.27	24.00
		1	131	22.22	22.10	22.14	24.00
		64	32	22.35	22.40	22.27	24.00
		128	0	21.24	21.57	21.19	23.00
	DFT-s-OFDM QPSK	1	1	22.01	22.41	22.07	24.00
		1	131	22.08	22.38	22.16	24.00
		64	32	22.11	22.10	22.27	24.00
		128	0	21.14	21.19	21.27	23.00
	DFT-s-OFDM 16QAM	1	1	21.67	21.35	21.79	22.50
		64	32	21.40	21.40	21.50	22.50
	DFT-s-OFDM 64QAM	1	1	19.69	19.77	19.79	21.50
		64	32	20.21	19.99	19.87	21.50
	DFT-s-OFDM 256QAM	1	1	17.69	17.67	18.17	19.50
		64	32	17.89	17.95	17.75	19.50
	CP-OFDM QPSK	1	1	22.69	22.63	22.33	23.00
	CP-OFDM 16QAM	1	1	21.24	21.30	21.04	22.00
	CP-OFDM 64QAM	1	1	19.85	19.83	19.75	20.50
	CP-OFDM 256QAM	1	1	16.77	16.49	16.49	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376500/1882.5	380000/1900	
30MHz	DFT-s-OFDM BPSK	1	1	22.31	22.49	22.33	24.00
		1	158	22.32	22.34	22.10	24.00
		80	40	22.23	22.22	22.21	24.00
		160	0	21.20	21.31	21.05	23.00
	DFT-s-OFDM QPSK	1	1	22.23	22.49	22.39	24.00
		1	158	22.26	22.22	22.02	24.00
		80	40	22.23	22.20	22.35	24.00
		160	0	21.40	21.39	21.23	23.00
	DFT-s-OFDM 16QAM	1	1	21.63	21.39	21.65	22.50
		80	40	21.26	21.20	21.22	22.50
	DFT-s-OFDM 64QAM	1	1	19.61	19.85	20.07	21.50
		80	40	20.03	19.83	19.85	21.50
	DFT-s-OFDM 256QAM	1	1	17.73	17.91	17.85	19.50
		80	40	17.95	17.89	17.71	19.50

	CP-OFDM QPSK	1	1	22.43	22.43	22.43	23.00
	CP-OFDM 16QAM	1	1	20.98	21.00	21.38	22.00
	CP-OFDM 64QAM	1	1	19.83	19.63	19.49	20.50
	CP-OFDM 256QAM	1	1	16.83	16.77	16.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376500/1882.5	379000/1895	
40MHz	DFT-s-OFDM BPSK	1	1	22.31	22.47	22.31	24.00
		1	214	22.26	22.20	22.12	24.00
		108	54	22.15	22.30	22.15	24.00
		216	0	21.28	21.35	21.11	23.00
	DFT-s-OFDM QPSK	1	1	22.13	22.47	22.25	24.00
		1	214	22.08	22.20	22.06	24.00
		108	54	22.25	22.26	22.23	24.00
		216	0	21.22	21.25	21.21	23.00
	DFT-s-OFDM 16QAM	1	1	21.45	21.41	21.61	22.50
		108	54	21.30	21.20	21.30	22.50
	DFT-s-OFDM 64QAM	1	1	19.71	19.77	19.95	21.50
		108	54	20.11	19.93	19.89	21.50
	DFT-s-OFDM 256QAM	1	1	17.71	17.75	17.93	19.50
		108	54	17.95	17.79	17.73	19.50
	CP-OFDM QPSK	1	1	22.49	22.45	22.37	23.00
	CP-OFDM 16QAM	1	1	21.04	21.12	21.20	22.00
	CP-OFDM 64QAM	1	1	19.89	19.71	19.57	20.50
	CP-OFDM 256QAM	1	1	16.79	16.61	16.47	17.50

n25							
Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				370500/1852.5	376500/1882.5	382500/1912.5	
5MHz	DFT-s-OFDM BPSK	1	1	13.14	13.03	13.11	14.00
		1	23	12.97	13.13	13.18	14.00
		12	6	12.49	12.49	12.81	14.00
		25	0	12.73	13.09	12.60	14.00
	DFT-s-OFDM QPSK	1	1	12.91	13.35	13.29	14.00
		1	23	13.43	12.87	12.81	14.00
		12	6	12.89	13.09	12.56	14.00

		25	0	12.76	13.06	12.96	14.00
	DFT-s-OFDM	1	1	13.48	13.47	12.98	14.00
	16QAM	12	6	13.06	12.89	13.02	14.00
	DFT-s-OFDM	1	1	13.38	13.45	13.34	14.00
	64QAM	12	6	13.06	13.02	12.96	14.00
	DFT-s-OFDM	1	1	12.98	13.04	12.89	14.00
	256QAM	12	6	12.21	12.05	12.42	14.00
	CP-OFDM	1	1	13.01	13.12	13.31	14.00
	QPSK	1	1	12.66	12.62	13.42	14.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371000/1855	376500/1882.5	382000/1910	
10MHz	DFT-s-OFDM BPSK	1	1	12.84	12.99	13.39	14.00
		1	50	12.69	13.15	13.16	14.00
		25	12	12.57	12.47	12.59	14.00
		50	0	12.65	12.79	12.78	14.00
	DFT-s-OFDM QPSK	1	1	13.11	13.31	13.23	14.00
		1	50	13.39	12.89	12.69	14.00
		25	12	12.95	12.93	12.54	14.00
		50	0	12.90	13.14	13.14	14.00
	DFT-s-OFDM 16QAM	1	1	13.16	13.47	13.12	14.00
		25	12	13.28	12.77	13.12	14.00
	DFT-s-OFDM 64QAM	1	1	13.26	13.59	13.32	14.00
		25	12	13.04	13.28	12.68	14.00
	DFT-s-OFDM 256QAM	1	1	12.98	13.08	12.83	14.00
		25	12	12.23	12.54	12.20	14.00
	CP-OFDM QPSK	1	1	13.09	12.96	13.27	14.00
	CP-OFDM 16QAM	1	1	12.84	12.48	13.30	14.00
	CP-OFDM 64QAM	1	1	13.56	12.87	13.29	14.00
	CP-OFDM 256QAM	1	1	13.04	12.77	13.06	14.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				371500/1857.5	376500/1882.5	38150/1907.5	
15MHz	DFT-s-OFDM BPSK	1	1	13.14	13.07	13.17	14.00
		1	77	12.93	13.05	13.14	14.00
		36	18	12.59	12.51	12.71	14.00
		75	0	12.79	12.95	12.78	14.00
	DFT-s-OFDM QPSK	1	1	13.09	13.37	13.13	14.00
		1	77	13.29	12.81	12.91	14.00
		36	18	12.67	13.05	12.58	14.00
		75	0	12.88	12.92	13.08	14.00
	DFT-s-OFDM 16QAM	1	1	13.44	13.31	13.18	14.00
		36	18	13.08	13.13	12.88	14.00
	DFT-s-OFDM 64QAM	1	1	13.50	13.49	13.26	14.00
		36	18	13.04	13.10	12.92	14.00
	DFT-s-OFDM 256QAM	1	1	13.00	13.08	12.79	14.00
		36	18	12.01	12.05	12.34	14.00
	CP-OFDM QPSK	1	1	12.91	13.18	13.31	14.00
	CP-OFDM 16QAM	1	1	12.70	12.68	13.24	14.00
	CP-OFDM 64QAM	1	1	13.54	12.89	13.19	14.00
	CP-OFDM 256QAM	1	1	12.80	13.01	13.06	14.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372000/1860	376500/1882.5	381000/1905	
20MHz	DFT-s-OFDM BPSK	1	1	13.00	13.01	13.17	14.00
		1	104	12.85	13.01	13.06	14.00
		50	25	12.45	12.37	12.65	14.00
		100	0	12.79	12.97	12.66	14.00
	DFT-s-OFDM QPSK	1	1	12.95	13.43	13.13	14.00
		1	104	13.37	12.87	12.85	14.00
		50	25	12.79	12.95	12.60	14.00
		100	0	12.80	12.92	12.98	14.00
	DFT-s-OFDM 16QAM	1	1	13.32	13.31	13.02	14.00
		50	25	13.06	12.95	12.98	14.00
	DFT-s-OFDM 64QAM	1	1	13.32	13.55	13.36	14.00
		50	25	12.92	13.12	12.84	14.00
	DFT-s-OFDM 256QAM	1	1	12.96	12.90	12.79	14.00
		50	25	12.07	12.07	12.26	14.00
	CP-OFDM QPSK	1	1	12.99	13.02	13.35	14.00
	CP-OFDM 16QAM	1	1	12.68	12.58	13.34	14.00

	CP-OFDM 64QAM	1	1	13.42	12.89	13.09	14.00
	CP-OFDM 256QAM	1	1	12.84	12.95	12.96	14.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				372500 /1862.5	376500/1882.5	380500/1902.5	
25MHz	DFT-s-OFDM BPSK	1	1	13.26	12.99	13.05	14.00
		1	131	12.75	13.31	12.86	14.00
		64	32	12.47	12.59	12.67	14.00
		128	0	12.77	12.91	12.90	14.00
	DFT-s-OFDM QPSK	1	1	13.09	13.27	12.97	14.00
		1	131	13.21	12.89	12.87	14.00
		64	32	12.77	12.73	12.78	14.00
		128	0	13.06	12.94	12.88	14.00
	DFT-s-OFDM 16QAM	1	1	13.12	13.13	12.86	14.00
		64	32	12.96	12.81	12.94	14.00
	DFT-s-OFDM 64QAM	1	1	13.32	13.59	13.20	14.00
		64	32	13.02	13.00	12.94	14.00
	DFT-s-OFDM 256QAM	1	1	12.76	12.84	12.79	14.00
		64	32	12.17	12.19	12.32	14.00
	CP-OFDM QPSK	1	1	12.95	12.94	13.43	14.00
	CP-OFDM 16QAM	1	1	12.54	12.72	13.26	14.00
	CP-OFDM 64QAM	1	1	13.30	13.25	13.11	14.00
	CP-OFDM 256QAM	1	1	12.84	12.93	12.74	14.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				373000/1865	376500/1882.5	380000/1900	
30MHz	DFT-s-OFDM BPSK	1	1	13.06	12.97	13.05	14.00
		1	158	12.77	13.33	13.06	14.00
		80	40	12.47	12.65	12.61	14.00
		160	0	12.77	13.11	12.82	14.00
	DFT-s-OFDM QPSK	1	1	13.11	13.29	12.91	14.00
		1	158	13.07	12.91	12.87	14.00
		80	40	12.65	12.77	13.02	14.00
		160	0	13.04	13.10	12.80	14.00
	DFT-s-OFDM 16QAM	1	1	13.10	13.07	13.00	14.00
		80	40	12.94	12.89	12.82	14.00
	DFT-s-OFDM 64QAM	1	1	13.18	13.37	13.40	14.00
		80	40	12.86	13.06	12.80	14.00
	DFT-s-OFDM 256QAM	1	1	12.76	12.82	12.83	14.00
		80	40	12.13	12.25	12.26	14.00

	CP-OFDM QPSK	1	1	12.93	12.96	13.45	14.00
	CP-OFDM 16QAM	1	1	12.78	12.68	13.02	14.00
	CP-OFDM 64QAM	1	1	13.34	13.15	13.11	14.00
	CP-OFDM 256QAM	1	1	12.74	12.95	12.86	14.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				374000/1870	376500/1882.5	379000/1895	
40MHz	DFT-s-OFDM BPSK	1	1	13.18	13.07	13.03	14.00
		1	214	12.85	13.19	12.92	14.00
		108	54	12.49	12.59	12.53	14.00
		216	0	12.87	12.97	12.74	14.00
	DFT-s-OFDM QPSK	1	1	13.11	13.21	12.93	14.00
		1	214	13.11	12.97	12.85	14.00
		108	54	12.67	12.65	12.88	14.00
		216	0	12.90	12.92	12.88	14.00
	DFT-s-OFDM 16QAM	1	1	13.22	13.09	12.94	14.00
		108	54	12.92	12.79	12.84	14.00
	DFT-s-OFDM 64QAM	1	1	13.16	13.43	13.24	14.00
		108	54	12.88	12.92	12.82	14.00
	DFT-s-OFDM 256QAM	1	1	12.76	12.74	12.81	14.00
		108	54	12.15	12.19	12.22	14.00
	CP-OFDM QPSK	1	1	12.91	13.04	13.31	14.00
	CP-OFDM 16QAM	1	1	12.62	12.64	13.10	14.00
	CP-OFDM 64QAM	1	1	13.40	13.13	13.05	14.00
	CP-OFDM 256QAM	1	1	12.82	12.93	12.72	14.00

n41 PC2							
Pmax&Sensor off-Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500202/2501.01	5185.98/2592.99	537000/2685	
10MHz	DFT-s-OFDM BPSK	1	1	25.14	24.99	25.72	26.50
		1	22	25.12	25.34	25.54	26.50
		12	6	25.49	25.64	25.49	26.50
		24	0	24.77	24.06	24.75	25.50
	DFT-s-OFDM QPSK	1	1	25.48	25.19	25.50	26.50
		1	22	25.76	25.32	25.42	26.50
		12	6	25.39	25.16	25.15	26.50

		24	0	24.55	24.30	24.35	25.50
	DFT-s-OFDM	1	1	24.53	24.24	24.16	25.00
	16QAM	12	6	24.11	23.25	24.57	25.00
	DFT-s-OFDM	1	1	22.49	21.51	22.58	23.50
	64QAM	12	6	22.84	22.86	22.77	23.50
	DFT-s-OFDM	1	1	21.27	20.93	21.38	22.00
	256QAM	12	6	21.18	21.26	21.37	22.00
	CP-OFDM	1	1	24.96	25.08	24.98	26.00
	QPSK	1	1	24.40	24.31	24.25	24.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				500700/2503.5	518598/2592.99	536496/2682.48	
15MHz	DFT-s-OFDM BPSK	1	1	25.36	25.29	25.80	26.50
		1	36	25.40	25.46	25.40	26.50
		18	9	25.37	25.34	25.47	26.50
		36	0	24.53	24.38	24.77	25.50
	DFT-s-OFDM QPSK	1	1	25.42	25.27	25.54	26.50
		1	36	25.58	25.20	25.50	26.50
		18	9	25.31	25.48	25.43	26.50
		36	0	24.49	24.26	24.53	25.50
	DFT-s-OFDM 16QAM	1	1	24.31	24.20	24.38	25.00
		18	9	24.23	23.41	24.57	25.00
	DFT-s-OFDM 64QAM	1	1	22.39	21.81	22.86	23.50
		18	9	23.12	22.98	23.23	23.50
	DFT-s-OFDM 256QAM	1	1	21.25	21.21	21.12	22.00
		18	9	21.36	21.32	21.47	22.00
	CP-OFDM QPSK	1	1	24.98	25.16	25.12	26.00
	CP-OFDM 16QAM	1	1	24.33	24.25	24.37	24.50
	CP-OFDM 64QAM	1	1	22.86	22.88	22.66	23.00
	CP-OFDM 256QAM	1	1	19.70	19.74	19.80	20.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	25.40	25.17	25.78	26.50
		1	49	25.32	25.34	25.52	26.50
		25	12	25.53	25.26	25.31	26.50
		50	0	24.51	24.44	24.47	25.50
	DFT-s-OFDM QPSK	1	1	25.54	25.29	25.48	26.50
		1	49	25.36	25.38	25.40	26.50
		25	12	25.09	25.20	25.23	26.50
		50	0	24.39	24.22	24.35	25.50
	DFT-s-OFDM 16QAM	1	1	24.19	24.14	24.46	25.00
		25	12	24.33	23.33	24.33	25.00
	DFT-s-OFDM 64QAM	1	1	22.35	21.51	22.86	23.50
		25	12	23.00	22.86	23.15	23.50
	DFT-s-OFDM 256QAM	1	1	20.97	21.19	20.98	22.00
		25	12	21.34	21.32	21.35	22.00
	CP-OFDM QPSK	1	1	25.00	24.98	25.14	26.00
	CP-OFDM 16QAM	1	1	24.47	24.29	24.35	24.50
	CP-OFDM 64QAM	1	1	22.58	22.58	22.42	23.00
	CP-OFDM 256QAM	1	1	19.82	19.62	19.82	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	25.52	24.97	25.88	26.50
		1	76	25.12	25.38	25.44	26.50
		36	18	25.47	25.64	25.23	26.50
		75	0	24.55	24.40	24.69	25.50
	DFT-s-OFDM QPSK	1	1	25.66	25.07	25.66	26.50
		1	76	25.46	25.20	25.54	26.50
		36	18	25.17	25.54	25.31	26.50
		75	0	24.53	24.22	24.65	25.50
	DFT-s-OFDM 16QAM	1	1	24.31	24.20	24.62	25.00
		36	18	24.17	23.35	24.55	25.00
	DFT-s-OFDM 64QAM	1	1	22.17	21.63	22.72	23.50
		36	18	23.00	22.78	23.27	23.50
	DFT-s-OFDM 256QAM	1	1	21.03	21.19	21.14	22.00
		36	18	21.48	21.12	21.53	22.00
	CP-OFDM QPSK	1	1	24.94	24.98	24.98	26.00
	CP-OFDM 16QAM	1	1	24.41	24.33	24.31	24.50

	CP-OFDM 64QAM	1	1	22.86	22.84	22.56	23.00
	CP-OFDM 256QAM	1	1	19.86	19.68	19.66	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	25.26	25.29	25.86	26.50
		1	104	25.40	25.52	25.52	26.50
		50	25	25.41	25.50	25.49	26.50
		100	0	24.49	24.54	24.63	25.50
	DFT-s-OFDM QPSK	1	1	25.62	25.13	25.68	26.50
		1	104	25.60	25.20	25.64	26.50
		50	25	25.25	25.54	25.37	26.50
		100	0	24.29	24.36	24.51	25.50
	DFT-s-OFDM 16QAM	1	1	24.41	24.24	24.58	25.00
		50	25	24.41	23.51	24.43	25.00
	DFT-s-OFDM 64QAM	1	1	22.35	21.81	22.68	23.50
		50	25	22.96	22.92	23.01	23.50
	DFT-s-OFDM 256QAM	1	1	20.93	21.01	21.00	22.00
		50	25	21.38	21.24	21.51	22.00
	CP-OFDM QPSK	1	1	24.98	25.00	25.14	26.00
	CP-OFDM 16QAM	1	1	24.35	24.39	24.39	24.50
	CP-OFDM 64QAM	1	1	22.62	22.72	22.66	23.00
	CP-OFDM 256QAM	1	1	19.88	19.76	19.64	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	25.36	25.15	25.70	26.50
		1	131	25.30	25.42	25.44	26.50
		64	32	25.43	25.44	25.33	26.50
		128	0	24.55	24.36	24.63	25.50
	DFT-s-OFDM QPSK	1	1	25.46	25.21	25.60	26.50
		1	131	25.56	25.28	25.52	26.50
		64	32	25.27	25.36	25.31	26.50
		128	0	24.41	24.26	24.53	25.50
	DFT-s-OFDM 16QAM	1	1	24.25	24.06	24.44	25.00
		64	32	24.33	23.43	24.49	25.00
	DFT-s-OFDM 64QAM	1	1	22.35	21.71	22.80	23.50
		64	32	23.04	22.94	23.09	23.50
	DFT-s-OFDM 256QAM	1	1	20.83	21.17	21.06	22.00
		64	32	21.30	21.16	21.61	22.00

	CP-OFDM QPSK	1	1	24.94	25.67	25.04	26.00
	CP-OFDM 16QAM	1	1	24.43	24.33	24.27	24.50
	CP-OFDM 64QAM	1	1	22.72	22.72	22.58	23.00
	CP-OFDM 256QAM	1	1	19.74	19.80	19.62	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	24.98	25.17	25.86	26.50
		1	160	25.34	25.52	25.60	26.50
		81	40	25.39	25.40	25.47	26.50
		162	0	24.77	24.54	24.39	25.50
	DFT-s-OFDM QPSK	1	1	25.36	24.95	25.62	26.50
		1	160	25.50	25.26	25.44	26.50
		81	40	25.17	25.26	25.45	26.50
		162	0	24.45	24.30	24.65	25.50
	DFT-s-OFDM 16QAM	1	1	24.09	23.80	24.46	25.00
		81	40	24.33	23.39	24.41	25.00
	DFT-s-OFDM 64QAM	1	1	22.67	21.71	22.84	23.50
		81	40	23.02	23.02	22.89	23.50
	DFT-s-OFDM 256QAM	1	1	20.99	20.93	21.00	22.00
		81	40	21.38	21.40	21.35	22.00
	CP-OFDM QPSK	1	1	24.76	25.61	25.08	26.00
	CP-OFDM 16QAM	1	1	24.33	24.35	24.03	24.50
	CP-OFDM 64QAM	1	1	22.56	22.84	22.72	23.00
	CP-OFDM 256QAM	1	1	19.86	19.88	19.66	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM BPSK	1	1	25.32	25.29	25.70	26.50
		1	215	25.44	25.18	25.18	26.50
		108	54	25.33	25.16	25.61	26.50
		216	0	24.69	24.24	24.47	25.50
	DFT-s-OFDM QPSK	1	1	25.56	25.33	25.58	26.50
		1	215	25.36	25.40	25.22	26.50
		108	54	25.25	25.48	25.39	26.50
		216	0	24.31	24.38	24.55	25.50
	DFT-s-OFDM 16QAM	1	1	24.25	23.88	24.34	25.00
		108	54	24.35	23.27	24.37	25.00

	DFT-s-OFDM 64QAM	1	1	22.43	21.55	22.78	23.50
		108	54	22.78	22.72	22.83	23.50
	DFT-s-OFDM 256QAM	1	1	21.11	21.13	21.00	22.00
		108	54	21.36	21.30	21.35	22.00
	CP-OFDM QPSK	1	1	25.02	25.77	24.88	26.00
	CP-OFDM 16QAM	1	1	24.47	24.32	24.19	24.50
	CP-OFDM 64QAM	1	1	22.60	22.80	22.72	23.00
	CP-OFDM 256QAM	1	1	19.92	19.76	19.84	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	25.28	25.11	25.88	26.50
		1	243	25.28	25.42	25.20	26.50
		120	60	25.45	25.18	25.33	26.50
		243	0	24.73	24.36	24.49	25.50
	DFT-s-OFDM QPSK	1	1	25.38	25.03	25.56	26.50
		1	243	25.52	25.44	25.42	26.50
		120	60	25.35	25.40	25.43	26.50
		243	0	24.57	24.26	24.53	25.50
	DFT-s-OFDM 16QAM	1	1	24.23	24.14	24.36	25.00
		120	60	24.31	23.35	24.45	25.00
	DFT-s-OFDM 64QAM	1	1	22.41	21.55	22.74	23.50
		120	60	22.94	22.76	22.85	23.50
	DFT-s-OFDM 256QAM	1	1	21.03	21.03	20.98	22.00
		120	60	21.48	21.22	21.35	22.00
	CP-OFDM QPSK	1	1	24.94	25.77	25.04	26.00
	CP-OFDM 16QAM	1	1	24.19	24.29	24.27	24.50
	CP-OFDM 64QAM	1	1	22.56	22.92	22.58	23.00
	CP-OFDM 256QAM	1	1	19.86	19.66	19.76	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	25.28	25.17	25.70	26.50
		1	271	25.40	25.30	25.30	26.50
		135	67	25.35	25.28	25.41	26.50
		270	0	24.57	24.36	24.47	25.50
	DFT-s-OFDM QPSK	1	1	25.36	25.11	25.58	26.50
		1	271	25.42	25.32	25.40	26.50

		135	67	25.35	25.38	25.35	26.50
		270	0	24.39	24.34	24.39	25.50
	DFT-s-OFDM 16QAM	1	1	24.23	23.96	24.46	25.00
		135	67	24.37	23.41	24.39	25.00
	DFT-s-OFDM 64QAM	1	1	22.37	21.61	22.70	23.50
		135	67	22.90	22.80	22.97	23.50
	DFT-s-OFDM 256QAM	1	1	20.93	21.03	21.04	22.00
		135	67	21.32	21.20	21.39	22.00
	CP-OFDM QPSK	1	1	24.96	25.67	25.04	26.00
	CP-OFDM 16QAM	1	1	24.27	24.37	24.21	24.50
CP-OFDM 64QAM	1	1	22.60	22.76	22.66	23.00	
CP-OFDM 256QAM	1	1	19.80	19.78	19.64	20.00	
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Sensor on--Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				500202/2501.01	5185.98/2592.99	537000/2685	
10MHz	DFT-s-OFDM BPSK	1	1	16.82	17.04	16.75	18.50
		1	22	16.88	16.54	16.93	18.50
		12	6	17.01	17.04	17.29	18.50
		24	0	17.04	17.16	16.60	18.50
	DFT-s-OFDM QPSK	1	1	17.20	17.06	17.25	18.50
		1	22	16.60	16.66	16.87	18.50
		12	6	16.77	16.54	16.87	18.50
		24	0	16.68	17.28	17.37	18.50
	DFT-s-OFDM 16QAM	1	1	16.78	16.64	16.82	18.50
		12	6	16.55	16.71	16.68	18.50
	DFT-s-OFDM 64QAM	1	1	16.59	16.77	16.60	18.50
		12	6	16.92	16.80	16.81	18.50
	DFT-s-OFDM 256QAM	1	1	17.10	17.07	16.99	18.50
		12	6	17.19	17.37	16.61	18.50
	CP-OFDM QPSK	1	1	16.94	17.03	17.05	18.50
	CP-OFDM 16QAM	1	1	16.71	17.23	16.76	18.50
	CP-OFDM 64QAM	1	1	16.60	16.81	16.98	18.50
	CP-OFDM 256QAM	1	1	16.91	16.85	16.91	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				500700/2503.5	518598/2592.99	536496/2682.48	

15MHz	DFT-s-OFDM BPSK	1	1	17.04	17.06	16.99	18.50
		1	36	17.14	16.84	17.13	18.50
		18	9	17.23	17.02	17.25	18.50
		36	0	17.20	17.28	16.88	18.50
	DFT-s-OFDM QPSK	1	1	17.14	17.18	17.39	18.50
		1	36	16.78	16.78	17.05	18.50
		18	9	16.60	16.74	16.59	18.50
		36	0	17.02	17.00	17.19	18.50
	DFT-s-OFDM 16QAM	1	1	16.98	16.96	17.00	18.50
		18	9	16.59	16.99	16.80	18.50
	DFT-s-OFDM 64QAM	1	1	16.80	16.79	16.76	18.50
		18	9	17.10	16.69	17.13	18.50
	DFT-s-OFDM 256QAM	1	1	16.90	17.19	17.11	18.50
		18	9	17.35	17.25	16.81	18.50
	CP-OFDM QPSK	1	1	16.70	17.37	17.07	18.50
	CP-OFDM 16QAM	1	1	16.77	17.09	17.02	18.50
	CP-OFDM 64QAM	1	1	16.74	16.91	17.16	18.50
	CP-OFDM 256QAM	1	1	17.27	16.77	17.25	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				501204/2506.2	518598/2592.99	535998/2679.99	
20MHz	DFT-s-OFDM BPSK	1	1	17.00	17.26	16.89	18.50
		1	49	17.24	16.62	17.03	18.50
		25	12	17.27	17.08	17.29	18.50
		50	0	16.92	16.96	16.65	18.50
	DFT-s-OFDM QPSK	1	1	17.36	17.12	17.43	18.50
		1	49	16.64	16.76	16.97	18.50
		25	12	16.71	16.70	16.75	18.50
		50	0	16.80	17.22	17.35	18.50
	DFT-s-OFDM 16QAM	1	1	17.08	16.94	16.74	18.50
		25	12	16.73	16.89	16.84	18.50
	DFT-s-OFDM 64QAM	1	1	16.61	16.85	16.70	18.50
		25	12	17.02	16.71	17.01	18.50
	DFT-s-OFDM 256QAM	1	1	16.98	17.37	16.93	18.50
		25	12	17.13	17.37	16.83	18.50
	CP-OFDM QPSK	1	1	17.02	17.27	17.11	18.50
	CP-OFDM 16QAM	1	1	16.53	17.11	16.96	18.50
	CP-OFDM 64QAM	1	1	16.68	16.69	17.08	18.50

	CP-OFDM 256QAM	1	1	16.99	16.85	16.97	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				502200/2511	518598/2592.99	534996/2674.98	
30MHz	DFT-s-OFDM BPSK	1	1	17.02	17.10	16.95	18.50
		1	76	17.08	16.64	17.03	18.50
		36	18	17.11	17.14	17.41	18.50
		75	0	16.98	17.08	16.57	18.50
	DFT-s-OFDM QPSK	1	1	17.30	17.18	17.27	18.50
		1	76	16.72	16.76	17.03	18.50
		36	18	16.53	16.70	16.77	18.50
		75	0	16.80	17.18	17.31	18.50
	DFT-s-OFDM 16QAM	1	1	16.98	16.80	16.78	18.50
		36	18	16.71	16.85	16.86	18.50
	DFT-s-OFDM 64QAM	1	1	16.55	16.77	16.62	18.50
		36	18	17.10	16.59	16.93	18.50
	DFT-s-OFDM 256QAM	1	1	17.00	17.19	16.99	18.50
		36	18	17.25	17.29	16.69	18.50
	CP-OFDM QPSK	1	1	16.84	17.21	17.09	18.50
	CP-OFDM 16QAM	1	1	16.63	17.19	16.90	18.50
	CP-OFDM 64QAM	1	1	16.62	16.75	16.96	18.50
	CP-OFDM 256QAM	1	1	17.07	16.81	17.09	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				503202/2516.01	518598/2592.99	534000/2670	
40MHz	DFT-s-OFDM BPSK	1	1	17.14	16.94	17.01	18.50
		1	104	16.90	16.76	17.07	18.50
		50	25	16.95	17.18	17.29	18.50
		100	0	17.08	17.20	16.59	18.50
	DFT-s-OFDM QPSK	1	1	17.12	17.04	17.13	18.50
		1	104	16.82	16.82	17.05	18.50
		50	25	16.63	16.56	16.73	18.50
		100	0	16.70	17.00	17.17	18.50
	DFT-s-OFDM 16QAM	1	1	17.06	16.70	16.90	18.50
		50	25	16.79	16.71	16.90	18.50
	DFT-s-OFDM 64QAM	1	1	16.55	16.75	16.68	18.50
		50	25	17.20	16.80	16.89	18.50
	DFT-s-OFDM 256QAM	1	1	17.04	17.21	17.01	18.50
		50	25	17.09	17.21	16.81	18.50
	CP-OFDM QPSK	1	1	16.84	17.19	16.91	18.50

	CP-OFDM 16QAM	1	1	16.67	17.13	17.00	18.50
	CP-OFDM 64QAM	1	1	16.56	16.71	16.80	18.50
	CP-OFDM 256QAM	1	1	16.99	16.71	17.15	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				504204/2521.02	518598/2592.99	532998/2664.99	
50MHz	DFT-s-OFDM BPSK	1	1	16.88	17.08	17.07	18.50
		1	131	17.04	16.90	16.97	18.50
		64	32	16.99	17.22	16.95	18.50
		128	0	17.26	17.36	16.89	18.50
	DFT-s-OFDM QPSK	1	1	16.98	17.02	17.15	18.50
		1	131	16.90	16.90	17.01	18.50
		64	32	16.83	16.76	16.81	18.50
		128	0	16.82	16.88	16.89	18.50
	DFT-s-OFDM 16QAM	1	1	17.39	16.82	16.82	18.50
		64	32	16.79	16.71	16.86	18.50
	DFT-s-OFDM 64QAM	1	1	16.69	16.77	16.60	18.50
		64	32	16.96	16.69	16.95	18.50
	DFT-s-OFDM 256QAM	1	1	16.72	17.29	16.99	18.50
		64	32	17.05	16.95	16.97	18.50
	CP-OFDM QPSK	1	1	16.84	17.05	16.95	18.50
	CP-OFDM 16QAM	1	1	16.73	17.29	17.02	18.50
	CP-OFDM 64QAM	1	1	16.76	16.79	16.54	18.50
	CP-OFDM 256QAM	1	1	17.01	16.85	17.17	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				505200/2526	518598/2595.99	531996/2659.98	
60MHz	DFT-s-OFDM BPSK	1	1	16.98	16.96	16.89	18.50
		1	160	16.72	16.90	16.67	18.50
		81	40	17.07	16.94	17.05	18.50
		162	0	17.18	17.34	16.83	18.50
	DFT-s-OFDM QPSK	1	1	16.96	16.72	16.85	18.50
		1	160	16.76	16.68	16.97	18.50
		81	40	16.89	16.70	16.79	18.50
		162	0	16.84	16.84	16.79	18.50
	DFT-s-OFDM 16QAM	1	1	17.29	16.82	16.72	18.50
		81	40	16.77	16.57	16.94	18.50
	DFT-s-OFDM 64QAM	1	1	16.72	16.77	16.83	18.50
		81	40	16.88	16.73	16.63	18.50

	DFT-s-OFDM	1	1	16.66	16.95	16.83	18.50
	256QAM	81	40	16.93	17.01	16.93	18.50
	CP-OFDM	1	1	16.70	16.91	17.05	18.50
	QPSK						
	CP-OFDM	1	1	16.71	17.07	17.16	18.50
	16QAM						
	CP-OFDM	1	1	16.76	16.85	16.90	18.50
	64QAM						
	CP-OFDM	1	1	17.09	16.95	17.11	18.50
	256QAM						
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				507204/2536.02	518598/2595.99	529998/2649.99	
80MHz	DFT-s-OFDM	1	1	17.06	16.84	16.81	18.50
		1	215	17.10	16.88	17.01	18.50
		108	54	17.01	17.24	16.89	18.50
		216	0	17.04	17.24	16.81	18.50
	DFT-s-OFDM	1	1	17.10	16.98	17.11	18.50
		1	215	16.74	16.84	16.75	18.50
		108	54	17.07	16.72	17.05	18.50
		216	0	17.10	16.82	17.11	18.50
	DFT-s-OFDM	1	1	17.43	17.04	16.96	18.50
		108	54	16.81	16.83	17.16	18.50
	DFT-s-OFDM	1	1	16.71	16.80	16.58	18.50
		108	54	16.82	16.73	16.65	18.50
	DFT-s-OFDM	1	1	16.94	17.29	17.13	18.50
		108	54	17.01	16.89	16.83	18.50
	CP-OFDM	1	1	16.88	16.87	17.09	18.50
	QPSK						
	CP-OFDM	1	1	16.99	17.09	17.06	18.50
	16QAM						
	CP-OFDM	1	1	16.90	16.89	16.55	18.50
	64QAM						
	CP-OFDM	1	1	17.09	17.15	17.05	18.50
	256QAM						

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				508200/2541	518598/2595.99	528996/2644.98	
90MHz	DFT-s-OFDM BPSK	1	1	17.00	17.00	17.05	18.50
		1	243	17.06	16.96	16.85	18.50
		120	60	17.03	17.00	16.95	18.50
		243	0	17.24	17.18	16.75	18.50
	DFT-s-OFDM QPSK	1	1	17.06	17.06	17.01	18.50
		1	243	16.92	16.78	16.85	18.50
		120	60	16.85	16.66	16.99	18.50
		243	0	16.94	16.84	16.95	18.50
	DFT-s-OFDM 16QAM	1	1	17.15	16.94	16.92	18.50
		120	60	16.83	16.59	16.84	18.50
	DFT-s-OFDM 64QAM	1	1	16.51	16.75	16.82	18.50
		120	60	17.18	16.89	16.71	18.50
	DFT-s-OFDM 256QAM	1	1	16.70	17.21	16.97	18.50
		120	60	17.23	16.85	16.87	18.50
	CP-OFDM QPSK	1	1	16.78	16.91	16.91	18.50
	CP-OFDM 16QAM	1	1	16.97	17.33	17.20	18.50
	CP-OFDM 64QAM	1	1	16.80	16.77	16.56	18.50
	CP-OFDM 256QAM	1	1	17.21	17.13	17.15	18.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				509202/2546.01	518598/2592.99	528000/2640	
100MHz	DFT-s-OFDM BPSK	1	1	17.08	17.12	17.11	18.50
		1	271	16.94	17.02	17.13	18.50
		135	67	17.13	17.20	17.07	18.50
		270	0	17.34	17.32	17.09	18.50
	DFT-s-OFDM QPSK	1	1	17.12	17.10	17.13	18.50
		1	271	17.00	17.04	17.01	18.50
		135	67	17.03	17.08	17.03	18.50
		270	0	17.18	17.14	17.17	18.50
	DFT-s-OFDM 16QAM	1	1	17.29	17.16	17.14	18.50
		135	67	17.01	16.97	17.04	18.50
	DFT-s-OFDM 64QAM	1	1	16.81	16.83	16.84	18.50
		135	67	17.08	17.07	17.11	18.50
	DFT-s-OFDM 256QAM	1	1	17.14	17.17	17.09	18.50
		135	67	17.11	17.11	17.07	18.50
	CP-OFDM QPSK	1	1	17.06	17.07	17.11	18.50
	CP-OFDM 16QAM	1	1	17.13	17.17	17.14	18.50

	CP-OFDM 64QAM	1	1	16.82	16.83	16.82	18.50
	CP-OFDM 256QAM	1	1	17.15	17.09	17.25	18.50

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Pmax&Sensor off-Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	23.35	23.03	23.37	24.00
		1	23	23.11	23.27	23.46	24.00
		12	6	23.42	22.69	23.41	24.00
		25	0	22.50	21.86	22.25	23.00
	DFT-s-OFDM QPSK	1	1	22.93	23.11	23.07	24.00
		1	23	23.27	23.19	22.86	24.00
		12	6	23.14	23.01	22.99	24.00
		25	0	22.18	22.24	21.97	23.00
	DFT-s-OFDM 16QAM	1	1	21.73	21.89	21.69	22.50
		12	6	22.09	21.81	21.91	22.50
	DFT-s-OFDM 64QAM	1	1	20.18	20.44	20.22	21.50
		12	6	20.25	20.45	20.35	21.50
	DFT-s-OFDM 256QAM	1	1	18.30	17.96	18.48	19.50
		12	6	18.53	18.53	18.39	19.50
	CP-OFDM QPSK	1	1	22.87	22.85	22.77	23.50
	CP-OFDM 16QAM	1	1	22.22	21.56	21.82	22.50
	CP-OFDM 64QAM	1	1	20.26	20.40	20.20	20.50
	CP-OFDM 256QAM	1	1	17.18	17.14	17.18	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	23.25	22.97	23.21	24.00
		1	50	23.15	23.23	23.48	24.00
		25	12	23.26	22.81	23.51	24.00
		50	0	22.46	21.92	22.09	23.00
	DFT-s-OFDM QPSK	1	1	22.87	23.17	22.97	24.00
		1	50	23.19	23.25	22.98	24.00
		25	12	23.00	23.11	23.01	24.00
		50	0	22.22	22.28	22.07	23.00
	DFT-s-OFDM 16QAM	1	1	21.71	21.81	21.73	22.50
		25	12	21.91	21.71	21.95	22.50
	DFT-s-OFDM	1	1	20.30	20.34	20.22	21.50

	64QAM	25	12	20.35	20.45	20.39	21.50
	DFT-s-OFDM	1	1	18.40	17.88	18.14	19.50
	256QAM	25	12	18.33	18.31	18.13	19.50
	CP-OFDM QPSK	1	1	22.87	22.85	22.89	23.50
	CP-OFDM 16QAM	1	1	22.28	21.66	21.94	22.50
	CP-OFDM 64QAM	1	1	20.08	20.34	20.32	20.50
	CP-OFDM 256QAM	1	1	17.32	17.20	17.12	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	23.07	22.71	23.17	24.00
		1	77	23.07	23.19	23.34	24.00
		36	18	23.02	22.95	23.17	24.00
		75	0	22.20	22.02	22.11	23.00
	DFT-s-OFDM QPSK	1	1	23.03	22.83	23.05	24.00
		1	77	23.17	23.23	23.24	24.00
		36	18	23.02	22.87	23.19	24.00
		75	0	22.16	22.08	22.19	23.00
	DFT-s-OFDM 16QAM	1	1	21.81	21.85	21.63	22.50
		36	18	21.75	21.81	21.77	22.50
	DFT-s-OFDM 64QAM	1	1	20.46	20.18	20.42	21.50
		36	18	20.29	20.55	20.41	21.50
	DFT-s-OFDM 256QAM	1	1	18.44	17.94	18.28	19.50
		36	18	18.47	18.57	18.19	19.50
	CP-OFDM QPSK	1	1	22.99	22.95	22.85	23.50
	CP-OFDM 16QAM	1	1	22.24	21.78	21.88	22.50
	CP-OFDM 64QAM	1	1	20.30	20.40	20.14	20.50
	CP-OFDM 256QAM	1	1	17.30	17.10	16.98	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	23.11	22.73	23.17	24.00
		1	104	23.19	23.07	23.40	24.00
		50	25	22.96	22.87	23.11	24.00
		100	0	22.14	22.00	22.25	23.00
	DFT-s-OFDM QPSK	1	1	22.67	22.85	22.91	24.00
		1	104	23.17	23.09	23.12	24.00
		50	25	22.96	22.81	22.99	24.00

		100	0	21.88	21.96	22.07	23.00
	DFT-s-OFDM	1	1	21.63	21.65	21.59	22.50
	16QAM	50	25	21.83	21.87	21.61	22.50
	DFT-s-OFDM	1	1	20.28	20.04	20.34	21.50
	64QAM	50	25	20.45	20.31	20.29	21.50
	DFT-s-OFDM	1	1	18.46	18.20	18.18	19.50
	256QAM	50	25	18.41	18.41	18.13	19.50
	CP-OFDM	1	1	22.81	22.83	22.99	23.50
	QPSK	1	1	21.96	21.62	21.74	22.50
	16QAM	1	1	20.36	20.08	20.26	20.50
	64QAM	1	1	17.32	17.34	17.24	17.50
	256QAM	1	1				
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	23.27	22.73	23.11	24.00
		1	131	23.05	23.37	23.24	24.00
		64	32	22.92	22.95	23.03	24.00
		128	0	22.34	22.20	22.17	23.00
	DFT-s-OFDM QPSK	1	1	22.89	23.07	22.97	24.00
		1	131	22.99	23.13	23.08	24.00
		64	32	23.00	23.09	23.41	24.00
		128	0	22.18	22.06	22.07	23.00
	DFT-s-OFDM 16QAM	1	1	21.95	21.71	21.49	22.50
		64	32	21.87	21.71	21.61	22.50
	DFT-s-OFDM 64QAM	1	1	20.30	20.32	20.24	21.50
		64	32	20.53	20.41	20.53	21.50
	DFT-s-OFDM 256QAM	1	1	18.26	18.00	18.32	19.50
		64	32	18.51	18.43	18.29	19.50
	CP-OFDM QPSK	1	1	22.91	23.05	23.17	23.50
	CP-OFDM 16QAM	1	1	22.30	21.82	21.80	22.50
	CP-OFDM 64QAM	1	1	20.42	20.24	20.08	20.50
	CP-OFDM 256QAM	1	1	17.30	17.28	17.18	17.50

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	23.13	22.89	23.39	24.00
		1	158	23.19	23.13	23.36	24.00
		80	40	23.10	23.15	23.33	24.00
		160	0	22.38	22.26	22.17	23.00
	DFT-s-OFDM QPSK	1	1	22.83	22.97	23.19	24.00
		1	158	23.29	23.25	23.20	24.00
		80	40	23.22	23.07	23.09	24.00
		160	0	22.00	21.96	22.11	23.00
	DFT-s-OFDM 16QAM	1	1	21.75	21.77	21.61	22.50
		80	40	21.83	21.81	21.91	22.50
	DFT-s-OFDM 64QAM	1	1	20.52	20.12	20.30	21.50
		80	40	20.25	20.39	20.41	21.50
	DFT-s-OFDM 256QAM	1	1	18.38	18.22	18.38	19.50
		80	40	18.33	18.25	18.03	19.50
	CP-OFDM QPSK	1	1	22.99	22.89	22.95	23.50
	CP-OFDM 16QAM	1	1	22.18	21.74	21.86	22.50
	CP-OFDM 64QAM	1	1	20.42	20.32	20.14	20.50
	CP-OFDM 256QAM	1	1	17.20	17.36	17.34	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	23.05	22.81	23.25	24.00
		1	214	23.13	23.25	23.30	24.00
		108	54	23.02	22.97	23.21	24.00
		216	0	22.24	22.10	22.15	23.00
	DFT-s-OFDM QPSK	1	1	22.87	22.87	23.07	24.00
		1	214	23.13	23.07	23.14	24.00
		108	54	23.12	22.97	23.19	24.00
		216	0	22.06	22.02	22.09	23.00
	DFT-s-OFDM 16QAM	1	1	21.79	21.71	21.67	22.50
		108	54	21.85	21.85	21.79	22.50
	DFT-s-OFDM 64QAM	1	1	20.40	20.22	20.38	21.50
		108	54	20.35	20.45	20.35	21.50
	DFT-s-OFDM 256QAM	1	1	18.38	18.12	18.22	19.50
		108	54	18.33	18.27	18.11	19.50
	CP-OFDM QPSK	1	1	22.91	22.85	22.95	23.50
	CP-OFDM 16QAM	1	1	22.08	21.80	21.94	22.50

	CP-OFDM 64QAM	1	1	20.30	20.26	20.24	20.50
	CP-OFDM 256QAM	1	1	17.36	17.06	17.08	17.50

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Sensor on--Main Ant0				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				342500/1712.5	349000/1745	355500/1777.5	
5MHz	DFT-s-OFDM BPSK	1	1	15.20	15.47	15.20	16.00
		1	23	15.26	14.98	15.21	16.00
		12	6	14.85	15.27	15.55	16.00
		25	0	15.30	15.14	15.67	16.00
	DFT-s-OFDM QPSK	1	1	14.94	15.37	15.54	16.00
		1	23	15.36	15.49	14.99	16.00
		12	6	15.01	15.19	15.46	16.00
		25	0	15.52	15.61	15.26	16.00
	DFT-s-OFDM 16QAM	1	1	15.98	15.60	15.31	16.00
		12	6	15.28	15.52	15.44	16.00
	DFT-s-OFDM 64QAM	1	1	15.07	15.14	14.88	16.00
		12	6	15.06	15.59	15.46	16.00
	DFT-s-OFDM 256QAM	1	1	15.02	15.01	15.38	16.00
		12	6	14.85	15.04	14.77	16.00
	CP-OFDM QPSK	1	1	15.40	15.05	15.31	16.00
	CP-OFDM 16QAM	1	1	15.50	15.17	15.10	16.00
	CP-OFDM 64QAM	1	1	15.15	15.47	15.28	16.00
	CP-OFDM 256QAM	1	1	15.49	15.46	15.62	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343000/1715	349000/1745	355000/1775	
10MHz	DFT-s-OFDM BPSK	1	1	15.34	15.43	15.16	16.00
		1	50	15.30	14.96	15.07	16.00
		25	12	14.83	15.35	15.53	16.00
		50	0	15.52	15.24	15.47	16.00
	DFT-s-OFDM QPSK	1	1	15.16	15.19	15.34	16.00
		1	50	15.36	15.57	15.23	16.00
		25	12	15.25	15.31	15.62	16.00
		50	0	15.24	15.53	15.34	16.00
	DFT-s-OFDM 16QAM	1	1	15.84	15.70	15.47	16.00
		25	12	15.08	15.38	15.42	16.00
	DFT-s-OFDM	1	1	15.17	15.26	15.00	16.00

	64QAM	25	12	15.20	15.37	15.36	16.00
	DFT-s-OFDM	1	1	15.14	15.25	15.46	16.00
	256QAM	25	12	14.87	14.82	14.65	16.00
	CP-OFDM QPSK	1	1	15.46	15.03	15.25	16.00
	CP-OFDM 16QAM	1	1	15.52	15.07	15.24	16.00
	CP-OFDM 64QAM	1	1	15.07	15.53	15.44	16.00
	CP-OFDM 256QAM	1	1	15.59	15.48	15.76	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				343500/1717.5	349000/1745	354500/1772.5	
15MHz	DFT-s-OFDM BPSK	1	1	15.16	15.37	15.06	16.00
		1	77	15.14	15.02	15.03	16.00
		36	18	14.87	15.17	15.37	16.00
		75	0	15.40	15.32	15.47	16.00
	DFT-s-OFDM QPSK	1	1	15.06	15.19	15.46	16.00
		1	77	15.20	15.41	15.15	16.00
		36	18	15.13	15.27	15.44	16.00
		75	0	15.34	15.49	15.38	16.00
	DFT-s-OFDM 16QAM	1	1	15.90	15.70	15.41	16.00
		36	18	15.20	15.34	15.52	16.00
	DFT-s-OFDM 64QAM	1	1	15.17	15.28	15.06	16.00
		36	18	15.24	15.45	15.34	16.00
	DFT-s-OFDM 256QAM	1	1	14.98	15.11	15.28	16.00
		36	18	14.73	14.92	14.71	16.00
	CP-OFDM QPSK	1	1	15.32	15.15	15.35	16.00
	CP-OFDM 16QAM	1	1	15.42	14.95	15.22	16.00
	CP-OFDM 64QAM	1	1	15.15	15.39	15.42	16.00
	CP-OFDM 256QAM	1	1	15.41	15.32	15.58	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344000/1720	349000/1745	354000/1770	
20MHz	DFT-s-OFDM BPSK	1	1	14.94	15.17	14.94	16.00
		1	104	14.68	14.94	15.07	16.00
		50	25	14.99	15.23	15.13	16.00
		100	0	15.42	15.34	15.33	16.00
	DFT-s-OFDM QPSK	1	1	15.16	15.19	15.44	16.00
		1	104	15.28	15.33	15.35	16.00
		50	25	15.15	15.03	15.62	16.00

		100	0	15.02	15.33	15.00	16.00
	DFT-s-OFDM	1	1	15.78	15.50	15.31	16.00
	16QAM	50	25	15.30	15.48	15.36	16.00
	DFT-s-OFDM	1	1	14.91	15.28	14.86	16.00
	64QAM	50	25	15.54	15.65	15.14	16.00
	DFT-s-OFDM	1	1	14.90	14.97	15.30	16.00
	256QAM	50	25	14.77	14.98	14.67	16.00
	CP-OFDM	1	1	15.40	15.11	15.09	16.00
	QPSK						
	CP-OFDM	1	1	15.12	15.13	15.40	16.00
	16QAM						
	CP-OFDM	1	1	15.47	15.33	15.46	16.00
	64QAM						
	CP-OFDM	1	1	15.17	15.22	15.56	16.00
	256QAM						
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				344500/1722.5	349000/1745	353500/1767.5	
25MHz	DFT-s-OFDM BPSK	1	1	14.98	15.29	15.20	16.00
		1	131	15.04	14.94	14.95	16.00
		64	32	15.13	15.25	15.29	16.00
		128	0	15.28	15.58	15.39	16.00
	DFT-s-OFDM QPSK	1	1	15.04	15.27	15.42	16.00
		1	131	15.18	15.13	15.35	16.00
		64	32	15.31	15.39	15.22	16.00
		128	0	15.28	15.47	15.48	16.00
	DFT-s-OFDM 16QAM	1	1	15.68	15.72	15.15	16.00
		64	32	15.16	15.40	15.48	16.00
	DFT-s-OFDM 64QAM	1	1	15.07	15.22	15.00	16.00
		64	32	15.52	15.35	15.50	16.00
	DFT-s-OFDM 256QAM	1	1	15.04	15.27	15.12	16.00
		64	32	14.67	14.84	14.87	16.00
	CP-OFDM QPSK	1	1	15.44	15.35	15.43	16.00
	CP-OFDM 16QAM	1	1	15.28	15.15	15.26	16.00
	CP-OFDM 64QAM	1	1	15.23	15.41	15.50	16.00
	CP-OFDM 256QAM	1	1	15.15	15.28	15.38	16.00

Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				345000/1725	349000/1745	353000/1765	
30MHz	DFT-s-OFDM BPSK	1	1	15.14	15.53	14.86	16.00
		1	158	15.10	15.04	15.07	16.00
		80	40	14.87	15.37	15.41	16.00
		160	0	15.14	15.28	15.31	16.00
	DFT-s-OFDM QPSK	1	1	15.10	15.45	15.36	16.00
		1	158	15.38	15.25	15.33	16.00
		80	40	15.19	15.51	15.54	16.00
		160	0	15.46	15.35	15.30	16.00
	DFT-s-OFDM 16QAM	1	1	15.66	15.76	15.47	16.00
		80	40	15.28	15.46	15.34	16.00
	DFT-s-OFDM 64QAM	1	1	15.17	15.26	15.02	16.00
		80	40	15.24	15.51	15.42	16.00
	DFT-s-OFDM 256QAM	1	1	15.00	15.17	15.26	16.00
		80	40	14.87	14.96	14.69	16.00
	CP-OFDM QPSK	1	1	15.44	15.33	15.35	16.00
	CP-OFDM 16QAM	1	1	15.28	15.15	15.38	16.00
	CP-OFDM 64QAM	1	1	15.13	15.29	15.48	16.00
	CP-OFDM 256QAM	1	1	15.19	15.24	15.38	16.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				346000/1730	349000/1745	352000/1760	
40MHz	DFT-s-OFDM BPSK	1	1	15.12	15.35	14.98	16.00
		1	214	14.98	15.08	15.09	16.00
		108	54	14.93	15.25	15.25	16.00
		216	0	15.24	15.38	15.33	16.00
	DFT-s-OFDM QPSK	1	1	15.14	15.27	15.38	16.00
		1	214	15.30	15.31	15.23	16.00
		108	54	15.09	15.33	15.36	16.00
		216	0	15.30	15.33	15.26	16.00
	DFT-s-OFDM 16QAM	1	1	15.76	15.60	15.31	16.00
		108	54	15.18	15.40	15.36	16.00
	DFT-s-OFDM 64QAM	1	1	15.05	15.20	15.08	16.00
		108	54	15.34	15.43	15.28	16.00
	DFT-s-OFDM 256QAM	1	1	15.00	15.17	15.22	16.00
		108	54	14.73	14.86	14.81	16.00
	CP-OFDM QPSK	1	1	15.40	15.21	15.29	16.00
	CP-OFDM 16QAM	1	1	15.30	15.05	15.32	16.00

	CP-OFDM 64QAM	1	1	15.13	15.23	15.40	16.00
	CP-OFDM 256QAM	1	1	15.25	15.24	15.44	16.00

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Pmax&Sensor off&Sensor on-Main Ant2				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				133100/665.5	136100/680.5	139100/695.5	
5MHz	DFT-s-OFDM BPSK	1	1	22.78	22.29	22.43	24.00
		1	23	22.46	22.87	22.52	24.00
		12	6	22.83	22.89	22.83	24.00
		25	0	21.50	21.50	21.68	23.00
	DFT-s-OFDM QPSK	1	1	22.66	22.35	22.59	24.00
		1	23	22.66	22.69	22.52	24.00
		12	6	22.57	22.69	22.59	24.00
		25	0	21.52	21.52	21.50	23.00
	DFT-s-OFDM 16QAM	1	1	21.17	21.48	21.23	22.50
		12	6	21.56	21.25	21.59	22.50
	DFT-s-OFDM 64QAM	1	1	19.64	19.72	19.96	21.50
		12	6	20.29	20.24	20.20	21.50
	DFT-s-OFDM 256QAM	1	1	18.43	18.88	18.43	19.50
		12	6	18.82	18.61	19.01	19.50
	CP-OFDM QPSK	1	1	22.57	22.47	22.26	23.00
	CP-OFDM 16QAM	1	1	21.68	21.39	21.54	22.00
	CP-OFDM 64QAM	1	1	19.94	20.06	20.42	20.50
	CP-OFDM 256QAM	1	1	17.36	17.26	17.20	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				133600/668	136100/680.5	138600/693	
10MHz	DFT-s-OFDM BPSK	1	1	22.64	22.37	22.71	24.00
		1	50	22.76	22.73	22.46	24.00
		25	12	22.75	22.75	22.73	24.00
		50	0	21.48	21.78	21.92	23.00
	DFT-s-OFDM QPSK	1	1	22.66	22.53	22.39	24.00
		1	50	22.60	22.77	22.76	24.00
		25	12	22.79	22.71	22.85	24.00
		50	0	21.60	21.78	21.84	23.00
	DFT-s-OFDM 16QAM	1	1	21.49	21.50	21.51	22.50
		25	12	21.82	21.17	21.83	22.50
	DFT-s-OFDM	1	1	19.66	19.98	20.12	21.50

	64QAM	25	12	20.23	20.40	20.16	21.50
	DFT-s-OFDM	1	1	18.47	18.64	18.63	19.50
	256QAM	25	12	18.86	18.41	19.03	19.50
	CP-OFDM QPSK	1	1	22.67	22.77	22.32	23.00
	CP-OFDM 16QAM	1	1	21.76	21.47	21.62	22.00
	CP-OFDM 64QAM	1	1	19.94	20.34	20.26	20.50
	CP-OFDM 256QAM	1	1	17.34	17.36	17.42	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				134100/670.5	136100/680.5	138100/690.5	
15MHz	DFT-s-OFDM BPSK	1	1	22.92	22.45	22.49	24.00
		1	77	22.76	22.77	22.44	24.00
		36	18	22.77	23.03	23.05	24.00
		75	0	21.70	21.44	21.76	23.00
	DFT-s-OFDM QPSK	1	1	22.72	22.59	22.53	24.00
		1	77	22.68	22.73	22.76	24.00
		36	18	22.63	22.79	22.83	24.00
		75	0	21.72	21.70	21.62	23.00
	DFT-s-OFDM 16QAM	1	1	21.47	21.36	21.27	22.50
		36	18	21.74	21.19	21.71	22.50
	DFT-s-OFDM 64QAM	1	1	20.02	19.86	19.82	21.50
		18	9	20.23	20.34	20.34	21.50
	DFT-s-OFDM 256QAM	1	1	18.65	18.70	18.67	19.50
		36	18	18.84	18.57	18.79	19.50
	CP-OFDM QPSK	1	1	22.45	22.71	22.46	23.00
	CP-OFDM 16QAM	1	1	21.76	21.35	21.50	22.00
	CP-OFDM 64QAM	1	1	20.02	20.24	20.48	20.50
	CP-OFDM 256QAM	1	1	17.38	17.40	17.24	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				134600/673	136100/680.5	137600/688	
20MHz	DFT-s-OFDM BPSK	1	1	22.76	22.47	22.57	24.00
		1	104	22.64	22.79	22.52	24.00
		50	25	22.89	22.93	22.91	24.00
		100	0	21.62	21.56	21.72	23.00
	DFT-s-OFDM QPSK	1	1	22.58	22.55	22.55	24.00
		1	104	22.72	22.61	22.64	24.00
		50	25	22.73	22.75	22.73	24.00

		100	0	21.66	21.64	21.64	23.00
	DFT-s-OFDM	1	1	21.29	21.40	21.29	22.50
	16QAM	50	25	21.70	21.23	21.69	22.50
	DFT-s-OFDM	1	1	19.84	19.88	19.90	21.50
	64QAM	50	25	20.23	20.18	20.22	21.50
	DFT-s-OFDM	1	1	18.55	18.50	18.55	19.50
	256QAM	50	25	18.80	18.41	19.03	19.50
	CP-OFDM	1	1	22.51	22.55	22.44	23.00
	QPSK						
	CP-OFDM	1	1	21.84	21.45	21.60	22.00
	16QAM						
	CP-OFDM	1	1	20.10	20.24	20.38	20.50
	64QAM						
	CP-OFDM	1	1	17.14	17.38	17.22	17.50
	256QAM						

9.5 WLAN Mode

Wi-Fi 2.4GHz Pmax&Sensor off-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	19.50	18.12
	6/2437	19.50	18.81
	11/2462	19.50	18.49
802.11g (6M)	1/2412	19.00	17.21
	6/2437	19.00	17.43
	11/2462	18.00	16.40
802.11n-HT20 (MCS0)	1/2412	18.00	16.22
	6/2437	18.00	16.35
	11/2462	18.00	16.22
802.11n-HT40 (MCS0)	3/2422	16.00	14.51
	6/2437	16.00	14.48
	9/2452	16.00	14.58

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4GHz Sensor on-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	13.50	12.54
	6/2437	13.50	12.95
	11/2462	13.50	12.84
802.11g (6M)	1/2412	13.00	12.61
	6/2437	13.00	12.29
	11/2462	13.00	12.13
802.11n-HT20 (MCS0)	1/2412	13.00	12.56
	6/2437	13.00	12.16
	11/2462	13.00	12.05
802.11n-HT40 (MCS0)	3/2422	13.00	12.31
	6/2437	13.00	12.10
	9/2452	13.00	12.16

Note: Initial test configuration is 802.11b mode.

Wi-Fi 5GHz (U-NII-1) Pmax&Sensor off-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	19.00	17.41
	40/5200	19.00	17.35
	44/5220	19.00	17.22
	48/5240	19.00	17.32
802.11n-HT20 (MCS0)	36/5180	19.00	17.24
	40/5200	19.00	17.20
	44/5220	19.00	17.17
	48/5240	19.00	17.16
802.11n-HT40 (MCS0)	38/5190	17.00	15.03
	46/5230	17.00	15.01
802.11ac-VHT20 (MCS0)	36/5180	17.00	15.41
	40/5200	17.00	15.32
	44/5220	17.00	15.35
	48/5240	17.00	15.31
802.11ac-VHT40 (MCS0)	38/5190	16.00	14.20
	46/5230	16.00	14.16
802.11ac-VHT80 (MCS0)	42/5210	15.00	13.22

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5GHz (U-NII-1) Sensor on-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	36/5180	13.00	11.83
	40/5200	13.00	11.73
	44/5220	13.00	11.75
	48/5240	13.00	11.69
802.11n-HT20 (MCS0)	36/5180	12.50	11.20
	40/5200	12.50	11.13
	44/5220	12.50	11.08
	48/5240	12.50	11.05
802.11n-HT40 (MCS0)	38/5190	12.50	11.13
	46/5230	12.50	11.08
802.11ac-VHT20 (MCS0)	36/5180	12.50	11.19
	40/5200	12.50	11.10
	44/5220	12.50	11.07

	48/5240	12.50	11.08
802.11ac-VHT40 (MCS0)	38/5190	12.50	11.06
	46/5230	12.50	11.10
802.11ac-VHT80 (MCS0)	42/5210	12.50	11.06

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5GHz (U-NII-2A) Pmax&Sensor off-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	19.00	17.32
	56/5280	19.00	17.26
	60/5300	19.00	17.60
	64/5320	19.00	17.39
802.11n-HT20 (MCS0)	52/5260	19.00	17.28
	56/5280	19.00	17.20
	60/5300	19.00	17.22
	64/5320	19.00	17.34
802.11n-HT40 (MCS0)	54/5270	17.00	15.02
	62/5310	17.00	15.10
802.11ac-VHT20 (MCS0)	52/5260	17.00	15.22
	56/5280	17.00	15.19
	60/5300	17.00	15.22
	64/5320	17.00	15.20
802.11ac-VHT40 (MCS0)	54/5270	16.00	14.30
	62/5310	16.00	14.21
802.11ac-VHT80 (MCS0)	58/5290	15.00	13.25

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5GHz (U-NII-2A) Sensor on-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	52/5260	13.00	12.15
	56/5280	13.00	11.90
	60/5300	13.00	12.18
	64/5320	13.00	12.03
802.11n-HT20	52/5260	12.50	11.11

(MCS0)	56/5280	12.50	11.16
	60/5300	12.50	11.18
	64/5320	12.50	11.24
802.11n-HT40 (MCS0)	54/5270	12.50	11.02
	62/5310	12.50	11.13
802.11ac-VHT20 (MCS0)	52/5260	12.50	11.13
	56/5280	12.50	11.16
	60/5300	12.50	11.18
	64/5320	12.50	11.21
802.11ac-VHT40 (MCS0)	54/5270	12.50	11.02
	62/5310	12.50	11.14
802.11ac-VHT80 (MCS0)	58/5290	12.50	11.09

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5GHz (U-NII-2C) Pmax&Sensor off-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	15.50	14.07
	116/5580	19.00	17.85
	120/5600	19.00	17.80
	132/5660	19.00	17.32
	140/5700	17.00	15.73
802.11n-HT20 (MCS0)	100/5500	15.50	13.94
	116/5580	19.00	17.56
	132/5660	19.00	17.50
	140/5700	17.00	15.62
802.11n-HT40 (MCS0)	102/5510	15.00	13.22
	110/5550	17.00	15.25
	118/5590	17.00	15.22
	134/5670	17.00	15.23
802.11ac-VHT20 (MCS0)	100/5500	16.00	14.46
	116/5580	17.00	15.50
	132/5660	17.00	15.54
	140/5700	16.00	14.63
802.11ac-VHT40 (MCS0)	102/5510	14.00	12.22
	110/5550	16.00	14.55
	118/5590	16.00	14.50
	134/5670	16.00	14.44

802.11ac-VHT80 (MCS0)	106/5530	15.00	13.34
	122/5610	15.00	13.40

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5GHz (U-NII-2C) Sensor on-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	13.00	12.07
	116/5580	13.00	11.87
	120/5600	13.00	12.02
	132/5660	13.00	12.11
	140/5700	13.00	11.98
802.11n-HT20 (MCS0)	100/5500	12.50	11.36
	116/5580	12.50	11.23
	132/5660	12.50	11.47
	140/5700	12.50	11.63
802.11n-HT40 (MCS0)	102/5510	12.50	11.33
	110/5550	12.50	11.19
	118/5590	12.50	11.19
	134/5670	12.50	11.41
802.11ac-VHT20 (MCS0)	100/5500	12.50	11.37
	116/5580	12.50	11.26
	132/5660	12.50	11.45
	140/5700	12.50	11.61
802.11ac-VHT40 (MCS0)	102/5510	12.50	11.26
	110/5550	12.50	11.18
	118/5590	12.50	11.19
	134/5670	12.50	11.42
802.11ac-VHT80 (MCS0)	106/5530	12.50	11.36
	122/5610	12.50	11.17

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

Wi-Fi 5GHz (U-NII-3) Pmax&Sensor off-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	19.00	17.55
	157/5785	19.00	17.47
	165/5825	19.00	17.45
802.11n-HT20	149/5745	19.00	17.45

(MCS0)	157/5785	19.00	17.43
	165/5825	19.00	17.47
802.11n-HT40 (MCS0)	151/5755	17.00	15.42
	159/5795	17.00	15.40
802.11ac-VHT20 (MCS0)	149/5745	17.00	15.52
	157/5785	17.00	15.55
	165/5825	17.00	15.62
802.11ac-VHT40 (MCS0)	151/5755	16.00	14.51
	159/5795	16.00	14.61
802.11ac-VHT80 (MCS0)	155/5775	15.00	13.31
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

Wi-Fi 5GHz (U-NII-3) Sensor on-Ant6 Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	149/5745	13.50	12.96
	157/5785	13.50	12.90
	165/5825	13.50	12.88
802.11n-HT20 (MCS0)	149/5745	13.00	12.31
	157/5785	13.00	12.45
	165/5825	13.00	12.41
802.11n-HT40 (MCS0)	151/5755	13.00	12.27
	159/5795	13.00	12.33
802.11ac-VHT20 (MCS0)	149/5745	13.00	12.37
	157/5785	13.00	12.41
	165/5825	13.00	12.36
802.11ac-VHT40 (MCS0)	151/5755	13.00	12.27
	159/5795	13.00	12.33
802.11ac-VHT80 (MCS0)	155/5775	13.00	12.33
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			

9.6 Bluetooth Mode

Bluetooth Pmax&Sensor off-Ant6	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	6.96	8.07	6.52	8.50
π /4DQPSK	4.57	5.77	4.09	6.50
8DPSK	4.59	5.76	4.07	6.50
BLE Pmax&Sensor off-Ant6	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	-5.37	-4.34	-5.81	0.00
GFSK(2M)	-6.99	-6.09	-7.49	0.00

10 Measured and Reported (Scaled) SAR Results

10.1 Measured SAR Results

Note:

1. The value with blue color is the maximum SAR Value of each test band.
2. For GSM, when multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
3. For WCDMA, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.
4. For LTE, QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit(1g).
5. Per FCC KDB 447498 D01, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - a) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - b) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - c) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz. When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM 850 (Original)	ANT0	Back Side	0	4TX Slots	Sensor on	N/A	N/A	190/836.6	25.50	24.42	0.961	-0.050	1.28	1.232	21
		Back Side	0	4TX Slots	Sensor on	N/A	N/A	128/824.2	25.50	24.52	0.936	0.037	1.25	1.173	/
		Back Side	0	4TX Slots	Sensor on	N/A	N/A	251/848.8	25.50	24.78	0.615	0.060	1.18	0.726	/
		Back Side	0	4TX Slots	Sensor on	N/A	N/A	190/836.6	25.50	24.42	0.953	0.033	1.28	1.222	/
		Front Side	0	4TX Slots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	4TX Slots	Sensor off	N/A	N/A	190/836.6	29.50	28.44	0.093	0.029	1.28	0.119	/
		Right Edge	0	4TX Slots	Sensor off	N/A	N/A	190/836.6	29.50	28.44	0.880	0.100	1.28	1.123	/
		Right Edge	0	4TX Slots	Sensor off	N/A	N/A	128/824.2	29.50	28.42	0.747	0.036	1.28	0.958	/
		Right Edge	0	4TX Slots	Sensor off	N/A	N/A	251/848.8	29.50	28.86	0.833	-0.014	1.16	0.965	/
		Top Edge	0	4TX Slots	Sensor on	N/A	N/A	190/836.6	25.50	24.42	0.482	0.030	1.28	0.618	/
		Bottom Edge	0	4TX Slots	Sensor off	N/A	N/A	190/836.6	29.50	28.44	0.085	0.012	1.28	0.108	/
GSM 1900 (Original)	ANT0	Back Side	0	4TX Slots	Sensor on	N/A	N/A	661/1880	19.00	17.94	0.914	-0.060	1.28	1.167	22
		Back Side	0	4TX Slots	Sensor on	N/A	N/A	512/1850.2	19.00	17.26	0.779	0.060	1.49	1.163	/
		Back Side	0	4TX Slots	Sensor on	N/A	N/A	810/1909.8	19.00	18.24	0.902	-0.039	1.19	1.075	/
		Front Side	0	4TX Slots	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	4TX Slots	Sensor off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0	4TX Slots	N/A	N/A	N/A	661/1880	26.50	25.31	0.355	-0.051	1.32	0.467	/
		Top Edge	0	4TX Slots	Sensor on	N/A	N/A	661/1880	19.00	17.94	0.597	0.080	1.28	0.762	/

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		Bottom Edge	0	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.31	0.072	0.090	1.32	0.095	/
WCDMA II (Original)	ANT0	Back Side	0	RMC	Sensor on	N/A	N/A	9400/1880	14.00	13.35	0.865	0.100	1.16	1.005	/
		Back Side	0	RMC	Sensor on	N/A	N/A	9262/1852.4	14.00	13.46	1.130	-0.050	1.13	1.280	23
		Back Side	0	RMC	Sensor on	N/A	N/A	9538/1907.6	14.00	13.42	0.789	0.020	1.14	0.902	/
		Back Side Repeat	0	RMC	Sensor on	N/A	N/A	9262/1852.4	14.00	13.46	1.040	0.090	1.13	1.178	/
		Front Side	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	RMC	Sensor off	N/A	N/A	9400/1880	24.00	23.23	0.546	0.100	1.19	0.652	/
		Top Edge	0	RMC	Sensor on	N/A	N/A	9400/1880	14.00	13.35	0.512	0.038	1.16	0.595	/
		Bottom Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
WCDMA IV (Original)	ANT0	Back Side	0	RMC	Sensor on	N/A	N/A	1413/1732.6	14.00	12.68	0.725	0.019	1.36	0.983	24
		Back Side	0	RMC	Sensor on	N/A	N/A	1312/1712.4	14.00	13.05	0.697	0.021	1.24	0.867	/
		Back Side	0	RMC	Sensor on	N/A	N/A	1513/1752.6	14.00	12.68	0.722	-0.045	1.36	0.978	/
		Front Side	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	23.25	0.310	0.038	1.19	0.368	/
		Top Edge	0	RMC	Sensor on	N/A	N/A	1413/1732.6	14.00	12.68	0.516	0.030	1.36	0.699	/
		Bottom Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
WCDMA V (Original)	ANT0	Back Side	0	RMC	Sensor on	N/A	N/A	4183/836.6	22.00	20.92	0.644	0.011	1.28	0.826	/
		Back Side	0	RMC	Sensor on	N/A	N/A	4132/826.4	22.00	21.05	0.822	0.026	1.24	1.023	/
		Back Side	0	RMC	Sensor on	N/A	N/A	4233/846.6	22.00	20.82	0.764	0.010	1.31	1.003	/
		Back Side Repeat	0	RMC	Sensor on	N/A	N/A	4132/826.4	22.00	21.05	0.832	-0.040	1.24	1.035	25
		Front Side	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	RMC	Sensor off	N/A	N/A	4183/836.6	24.00	22.90	0.619	0.097	1.29	0.797	/
		Top Edge	0	RMC	Sensor on	N/A	N/A	4183/836.6	22.00	20.92	0.339	0.042	1.28	0.435	/
		Bottom Edge	0	RMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE 2 (Original)	ANT0	Back Side	0	QPSK	Sensor on	1	50	18700/1860	14.00	12.79	0.960	0.044	1.32	1.268	/
			0	QPSK	Sensor on	50%	0	18700/1860	14.00	13.22	1.070	-0.080	1.20	1.281	26
			0	QPSK	Sensor on	100%	0	18700/1860	14.00	12.97	1.010	0.025	1.27	1.280	/
			0	QPSK	Sensor on	1	50	18900/1880	14.00	12.68	0.900	-0.030	1.36	1.220	/
			0	QPSK	Sensor on	1	0	19100/1900	14.00	12.64	0.849	0.026	1.37	1.161	/
			0	QPSK	Sensor on	50%	0	18900/1880	14.00	12.93	0.999	-0.016	1.28	1.278	/
			0	QPSK	Sensor on	50%	0	19100/1900	14.00	12.71	0.879	0.080	1.35	1.183	/
			0	QPSK	Sensor on	100%	0	18900/1880	14.00	12.92	0.996	0.025	1.28	1.277	/
			0	QPSK	Sensor on	100%	0	19100/1900	14.00	12.66	0.867	-0.010	1.36	1.180	/
		Back Side Repeat	0	QPSK	Sensor on	50%	0	18700/1860	14.00	13.22	1.030	0.027	1.20	1.233	/
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	QPSK	Sensor off	1	0	18700/1860	24.00	23.70	0.557	0.040	1.07	0.597	/

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			0	QPSK	Sensor off	50%	0	18700/1860	23.00	22.79	0.453	0.017	1.05	0.475	/
		Top Edge	0	QPSK	Sensor on	1	50	18700/1860	14.00	12.79	0.695	-0.020	1.32	0.918	/
			0	QPSK	Sensor on	1	50	18900/1880	14.00	12.68	0.667	0.080	1.36	0.904	/
			0	QPSK	Sensor on	1	0	19100/1900	14.00	12.64	0.553	0.120	1.37	0.756	/
			0	QPSK	Sensor on	50%	0	18700/1860	14.00	13.22	0.641	0.090	1.20	0.767	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE 2 (Variant)	ANT0	Back Side	0	QPSK	Sensor on	50%	0	18700/1860	14.00	13.22	1.020	-0.033	1.20	1.221	/
LTE 5 (Original)	ANT0	Back Side	0	QPSK	Sensor on	1	0	20450/829	22.00	20.91	0.744	0.080	1.29	0.956	/
			0	QPSK	Sensor on	50%	25	20450/829	22.00	20.91	0.756	-0.020	1.29	0.972	27
			0	QPSK	Sensor on	100%	0	20450/829	22.00	20.66	0.644	0.020	1.36	0.877	/
			0	QPSK	Sensor on	1	0	20525/836.5	22.00	20.85	0.638	0.038	1.30	0.831	/
			0	QPSK	Sensor on	1	0	20600/844	22.00	20.82	0.566	0.070	1.31	0.743	/
			0	QPSK	Sensor on	50%	0	20525/836.5	22.00	20.66	0.616	0.027	1.36	0.839	/
			0	QPSK	Sensor on	50%	0	20600/844	22.00	20.68	0.528	-0.013	1.36	0.716	/
			0	QPSK	Sensor on	100%	0	20525/836.5	22.00	20.63	0.586	0.025	1.37	0.803	/
			0	QPSK	Sensor on	100%	0	20600/844	22.00	20.48	0.496	0.080	1.42	0.704	/
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	QPSK	Sensor off	1	0	20450/829	24.00	22.91	0.695	-0.130	1.29	0.893	/
			0	QPSK	Sensor off	1	0	20525/836.5	24.00	22.87	0.544	0.017	1.30	0.706	/
			0	QPSK	Sensor off	1	0	20600/844	24.00	22.78	0.596	0.011	1.32	0.789	/
			0	QPSK	Sensor off	50%	25	20450/829	23.00	21.89	0.478	-0.130	1.29	0.617	/
		Top Edge	0	QPSK	Sensor on	1	0	20450/829	22.00	20.91	0.565	0.048	1.29	0.726	/
			0	QPSK	Sensor on	50%	25	20450/829	22.00	20.91	0.417	0.025	1.29	0.536	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE 7 (Original)	ANT2	Back Side	0	QPSK	Sensor on	1	99	20850/2510	14.00	12.54	0.782	0.017	1.40	1.094	/
			0	QPSK	Sensor on	50%	50	20850/2510	14.00	12.48	0.682	-0.010	1.42	0.968	/
			0	QPSK	Sensor on	100%	0	21350/2560	14.00	12.35	0.875	0.026	1.46	1.279	/
			0	QPSK	Sensor on	1	0	21100/2535	14.00	12.53	0.791	-0.030	1.40	1.110	/
			0	QPSK	Sensor on	1	99	21350/2560	14.00	12.42	0.742	0.025	1.44	1.068	/
			0	QPSK	Sensor on	50%	0	21100/2535	14.00	12.35	0.879	0.022	1.46	1.285	28
			0	QPSK	Sensor on	50%	50	21350/2560	14.00	12.38	0.863	0.070	1.45	1.253	/
			0	QPSK	Sensor on	100%	0	20850/2510	14.00	12.29	0.865	-0.020	1.48	1.282	/
			0	QPSK	Sensor on	100%	0	21100/2535	14.00	12.30	0.866	0.130	1.48	1.281	/
		Back Side Repeat	0	QPSK	Sensor on	50%	0	21100/2535	14.00	12.35	0.865	0.049	1.46	1.265	/
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	0	QPSK	Sensor on	1	99	20850/2510	14.00	12.54	0.256	0.026	1.40	0.358	/
			0	QPSK	Sensor on	50%	50	20850/2510	14.00	12.48	0.296	0.080	1.42	0.420	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/

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		Back Side	0	QPSK	WWAN+WLAN Sensor on	1	99	20850/2510	12.00	10.84	0.417	0.036	1.31	0.545	/
			0	QPSK	WWAN+WLAN Sensor on	50%	50	20850/2510	12.00	10.66	0.486	0.070	1.36	0.662	/
		Top Edge	0	QPSK	WWAN+WLAN Sensor on	1	99	20850/2510	12.00	10.84	0.186	-0.090	1.31	0.243	/
			0	QPSK	WWAN+WLAN Sensor on	50%	50	20850/2510	12.00	10.66	0.190	0.014	1.36	0.259	/
LTE 12 (Original)	ANT0	Back Side	0	QPSK	Sensor on	1	49	23060/704	22.00	21.39	0.937	0.021	1.15	1.078	/
			0	QPSK	Sensor on	50%	25	23095/707.5	22.00	21.31	0.893	-0.100	1.17	1.047	/
			0	QPSK	Sensor on	100%	0	23060/704	22.00	21.33	0.976	-0.020	1.17	1.139	/
			0	QPSK	Sensor on	1	49	23095/707.5	22.00	21.36	0.889	0.027	1.16	1.030	/
			0	QPSK	Sensor on	1	49	23130/711	22.00	21.30	0.847	0.080	1.17	0.995	/
			0	QPSK	Sensor on	50%	13	23060/704	22.00	21.30	0.952	0.068	1.17	1.119	/
			0	QPSK	Sensor on	50%	25	23130/711	22.00	21.28	0.884	0.022	1.18	1.043	/
			0	QPSK	Sensor on	100%	0	23095/707.5	22.00	21.31	0.932	0.047	1.17	1.092	/
			0	QPSK	Sensor on	100%	0	23130/711	22.00	21.25	0.919	0.035	1.19	1.092	/
		Back Side Repeat	0	QPSK	Sensor on	100%	0	23060/704	22.00	21.33	1.020	-0.070	1.17	1.190	29
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	QPSK	Sensor off	1	49	23060/704	24.00	22.98	0.453	-0.180	1.26	0.573	/
			0	QPSK	Sensor off	50%	25	23095/707.5	23.00	21.85	0.328	0.020	1.30	0.427	/
		Top Edge	0	QPSK	Sensor on	1	49	23060/704	22.00	21.39	0.425	0.056	1.15	0.489	/
			0	QPSK	Sensor on	50%	25	23095/707.5	22.00	21.31	0.330	0.010	1.17	0.387	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE 26 (Original)	ANT0	Back Side	0	QPSK	Sensor on	1	0	26765/821.5	19.00	17.87	0.654	0.011	1.30	0.848	/
			0	QPSK	Sensor on	50%	0	26765/821.5	19.00	17.83	0.792	0.030	1.31	1.037	/
			0	QPSK	Sensor on	100%	0	26765/821.5	19.00	17.79	0.783	0.036	1.32	1.035	/
			0	QPSK	Sensor on	1	0	26865/831.5	19.00	17.70	0.685	0.014	1.35	0.924	/
			0	QPSK	Sensor on	1	74	26965/841.5	19.00	17.68	0.671	0.030	1.36	0.909	/
			0	QPSK	Sensor on	50%	0	26865/831.5	19.00	17.71	0.745	0.018	1.35	1.003	/
			0	QPSK	Sensor on	50%	39	26965/841.5	19.00	17.68	0.641	0.021	1.36	0.869	/
			0	QPSK	Sensor on	100%	0	26865/831.5	19.00	17.68	0.742	0.026	1.36	1.006	/
			0	QPSK	Sensor on	100%	0	26965/841.5	19.00	17.67	0.642	-0.070	1.36	0.872	/
		Back Side Repeat	0	QPSK	Sensor on	50%	0	26765/821.5	19.00	17.83	0.821	0.050	1.31	1.075	30
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	QPSK	Sensor off	1	38	26765/821.5	24.00	22.79	0.525	-0.160	1.32	0.694	/
			0	QPSK	Sensor off	50%	0	26765/821.5	23.00	21.74	0.472	0.021	1.34	0.631	/
		Top Edge	0	QPSK	Sensor on	1	0	26765/821.5	19.00	17.87	0.476	0.040	1.30	0.617	/
			0	QPSK	Sensor on	50%	0	26765/821.5	19.00	17.83	0.439	0.030	1.31	0.575	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/

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LTE 41 PC3 (Original)	ANT2	Back Side	0	QPSK	Sensor on	1	99	40185/2549.5	17.50	16.70	0.886	0.024	1.20	1.065	/
			0	QPSK	Sensor on	50%	50	40185/2549.5	17.50	16.67	0.968	0.031	1.21	1.172	31
			0	QPSK	Sensor on	100%	0	40185/2549.5	17.50	16.68	0.960	0.059	1.21	1.160	/
			0	QPSK	Sensor on	1	99	39750/2506	17.50	16.66	0.834	-0.026	1.21	1.012	/
			0	QPSK	Sensor on	1	0	41490/2680	17.50	16.21	0.703	0.017	1.35	0.946	/
			0	QPSK	Sensor on	50%	50	39750/2506	17.50	16.64	0.892	0.070	1.22	1.087	/
			0	QPSK	Sensor on	50%	0	41490/2680	17.50	16.21	0.837	0.020	1.35	1.126	/
			0	QPSK	Sensor on	100%	0	39750/2506	17.50	16.54	0.885	0.040	1.25	1.104	/
			0	QPSK	Sensor on	100%	0	41490/2680	17.50	16.12	0.831	0.080	1.37	1.142	/
		Back Side Repeat	0	QPSK	Sensor on	50%	50	40185/2549.5	17.50	16.67	0.909	0.030	1.21	1.100	/
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	/
		Left Edge	0	QPSK	Sensor off	1	99	40185/2549.5	24.00	23.05	0.125	0.027	1.24	0.156	/
			0	QPSK	Sensor off	50%	50	40185/2549.5	23.00	22.00	0.096	0.090	1.26	0.121	/
		Right Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	/
		Top Edge	0	QPSK	Sensor on	1	99	40185/2549.5	17.50	16.70	0.340	-0.064	1.20	0.409	/
			0	QPSK	Sensor on	50%	50	40185/2549.5	17.50	16.67	0.357	-0.093	1.21	0.432	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	/
		Back Side	0	QPSK	WWAN+WLAN Sensor on	1	99	40185/2549.5	16.00	15.19	0.663	0.011	1.21	0.799	/
			0	QPSK	WWAN+WLAN Sensor on	50%	50	40185/2549.5	16.00	15.11	0.572	0.035	1.23	0.702	/
		Top Edge	0	QPSK	WWAN+WLAN Sensor on	1	99	40185/2549.5	16.00	15.19	0.233	-0.070	1.21	0.281	/
			0	QPSK	WWAN+WLAN Sensor on	50%	50	40185/2549.5	16.00	15.11	0.189	0.024	1.23	0.232	/
LTE 41 PC2 (Original)	ANT2	Back Side	0	QPSK	Sensor on	1	99	40185/2549.5	18.50	17.76	0.769	0.016	1.19	0.912	/
			0	QPSK	Sensor on	50%	50	40185/2549.5	18.50	17.67	0.869	0.062	1.21	1.052	32
			0	QPSK	Sensor on	100%	0	40185/2549.5	18.50	17.68	0.825	0.170	1.21	0.996	/
			0	QPSK	Sensor on	1	99	39750/2506	18.50	17.70	0.865	-0.020	1.20	1.040	/
			0	QPSK	Sensor on	1	0	41490/2680	18.50	17.26	0.667	0.048	1.33	0.887	/
			0	QPSK	Sensor on	50%	50	39750/2506	18.50	17.64	0.820	0.025	1.22	1.000	/
			0	QPSK	Sensor on	50%	0	41490/2680	18.50	17.20	0.702	-0.090	1.35	0.947	/
			0	QPSK	Sensor on	100%	0	39750/2506	18.50	17.54	0.824	0.060	1.25	1.028	/
			0	QPSK	Sensor on	100%	0	41490/2680	18.50	17.11	0.715	0.180	1.38	0.985	/
		Back Side Repeat	0	QPSK	Sensor on	50%	50	40185/2549.5	18.50	17.67	0.837	0.010	1.21	1.013	/
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	/
		Left Edge	0	QPSK	Sensor off	1	99	40185/2549.5	26.50	25.97	0.102	0.060	1.13	0.115	/
			0	QPSK	Sensor off	50%	50	40185/2549.5	25.50	24.98	0.116	-0.010	1.13	0.131	/
		Right Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	/
		Top Edge	0	QPSK	Sensor on	1	99	40185/2549.5	18.50	17.76	0.282	0.011	1.19	0.334	/
			0	QPSK	Sensor on	50%	50	40185/2549.5	18.50	17.67	0.305	0.029	1.21	0.369	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	NA	NA	N/A	N/A	/

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		Back Side	0	QPSK	WWAN+WLAN Sensor on	1	99	40185/2549.5	16.50	15.77	0.598	0.060	1.18	0.707	/
			0	QPSK	WWAN+WLAN Sensor on	50%	50	40185/2549.5	16.50	15.69	0.544	0.021	1.21	0.656	/
		Top Edge	0	QPSK	WWAN+WLAN Sensor on	1	99	40185/2549.5	16.50	15.77	0.182	0.130	1.18	0.215	/
			0	QPSK	WWAN+WLAN Sensor on	50%	50	40185/2549.5	16.50	15.69	0.173	0.027	1.21	0.208	/
LTE 66 (Original)	ANT0	Back Side	0	QPSK	Sensor on	1	0	132072/1720	14.00	12.66	0.753	0.160	1.36	1.025	/
			0	QPSK	Sensor on	50%	0	132072/1720	14.00	12.90	0.718	-0.120	1.29	0.925	/
			0	QPSK	Sensor on	100%	0	132072/1720	14.00	12.67	0.725	0.033	1.36	0.985	/
			0	QPSK	Sensor on	1	0	132322/1745	14.00	12.63	0.756	0.039	1.37	1.036	/
			0	QPSK	Sensor on	1	99	132572/1770	14.00	12.63	0.812	-0.010	1.37	1.113	33
			0	QPSK	Sensor on	50%	25	132322/1745	14.00	12.54	0.756	0.010	1.40	1.058	/
			0	QPSK	Sensor on	50%	0	132572/1770	14.00	12.65	0.794	0.026	1.36	1.083	/
			0	QPSK	Sensor on	100%	0	132322/1745	14.00	12.52	0.758	0.070	1.41	1.066	/
			0	QPSK	Sensor on	100%	0	132572/1770	14.00	12.62	0.809	0.038	1.37	1.112	/
		Back Side Repeat	0	QPSK	Sensor on	1	99	132572/1770	14.00	12.63	0.796	0.190	1.37	1.091	/
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	QPSK	Sensor off	1	0	132072/1720	24.00	23.20	0.170	0.060	1.20	0.204	/
			0	QPSK	Sensor off	50%	0	132072/1720	23.00	22.15	0.174	0.040	1.22	0.212	/
		Top Edge	0	QPSK	Sensor on	1	0	132072/1720	14.00	12.66	0.502	0.038	1.36	0.683	/
			0	QPSK	Sensor on	50%	0	132072/1720	14.00	12.90	0.618	0.020	1.29	0.796	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
LTE 71 (Original)	ANT0	Back Side	0	QPSK	Sensor on	1	99	133222/673	20.50	19.56	0.642	-0.051	1.24	0.797	34
			0	QPSK	Sensor on	50%	50	133372/688	20.50	19.42	0.619	0.048	1.28	0.794	/
		Front Side	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Left Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	0	QPSK	Sensor off	1	50	133372/688	24.00	22.80	0.341	0.035	1.32	0.450	/
			0	QPSK	Sensor off	50%	50	133222/673	23.00	21.68	0.312	0.020	1.36	0.423	/
		Top Edge	0	QPSK	Sensor on	1	99	133222/673	20.50	19.31	0.255	0.012	1.32	0.335	/
			0	QPSK	Sensor on	50%	50	133372/688	20.50	19.22	0.263	-0.058	1.34	0.353	/
		Bottom Edge	0	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/

Band	Antenna	Test Position	Dist. (mm)	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
n25 (Original)	ANT0	Back Side	0	SA	DFT-s-OFDM QPSK	Sensor on	1	1	376500/1882.5	14.00	13.21	0.738	0.012	1.20	0.885	/
			0			Sensor on	1	1	374000/1870	14.00	13.11	0.890	0.063	1.23	1.092	/
			0			Sensor on	1	1	379000/1895	14.00	12.93	0.897	0.090	1.28	1.148	35
			0			Sensor on	50%	54	379000/1895	14.00	12.88	0.854	-0.029	1.29	1.105	/
			0			Sensor on	50%	54	374000/1870	14.00	12.67	0.829	0.060	1.36	1.126	/

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			0	SA		Sensor on	50%	54	376500/1882.5	14.00	12.65	0.832	0.015	1.36	1.135	/
			0			Sensor on	100%	0	376500/1882.5	14.00	12.92	0.845	0.043	1.28	1.084	/
			0			Sensor on	100%	0	374000/1870	14.00	12.90	0.846	-0.030	1.29	1.090	/
			0			Sensor on	100%	0	379000/1895	14.00	12.88	0.850	0.085	1.29	1.100	/
		Back Side Repeat	0			Sensor on	1	1	379000/1895	14.00	12.88	0.866	-0.090	1.29	1.121	/
		Front Side	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0			Sensor off	1	1	376500/1882.5	24.00	22.47	0.106	0.026	1.42	0.151	/
			0			Sensor off	50%	54	376500/1882.5	24.00	22.26	0.132	-0.080	1.49	0.197	/
		Top Edge	0			Sensor on	1	1	376500/1882.5	14.00	13.21	0.522	0.032	1.20	0.626	/
			0			Sensor on	50%	54	379000/1895	14.00	12.88	0.501	0.120	1.29	0.648	/
		Bottom Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
n41 PC2 (Original)	ANT2	Back Side	0	SA	DFT-s-OFDM QPSK	Sensor on	1	1	528000/2640	18.50	17.13	0.624	0.061	1.37	0.855	/
			0			Sensor on	1	1	509202/2546.01	18.50	17.12	0.534	-0.024	1.37	0.734	/
			0			Sensor on	1	1	518598/2592.99	18.50	17.10	0.549	0.080	1.38	0.758	/
			0			Sensor on	50%	67	518598/2592.99	18.50	17.08	0.579	0.015	1.39	0.803	/
			0			Sensor on	50%	67	509202/2546.01	18.50	17.03	0.597	0.160	1.40	0.837	/
			0			Sensor on	50%	67	528000/2640	18.50	17.03	0.632	-0.064	1.40	0.887	36
			0			Sensor on	100%	0	509202/2546.01	18.50	17.18	0.581	0.038	1.36	0.787	/
			0			Sensor on	100%	0	518598/2592.99	18.50	17.14	0.587	0.029	1.37	0.803	/
			0			Sensor on	100%	0	528000/2640	18.50	17.17	0.615	0.080	1.36	0.835	/
			0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Front Side	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0			Sensor on	1	1	509202/2546.01	18.50	17.12	0.181	0.075	1.37	0.249	/
			0			Sensor on	50%	67	518598/2592.99	18.50	17.08	0.172	0.090	1.39	0.239	/
Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/				
n66 (Original)	ANT0	Back Side	0	SA	DFT-s-OFDM QPSK	Sensor on	1	1	352000/1760	16.00	15.38	0.795	0.027	1.15	0.917	/
			0			Sensor on	50%	54	352000/1760	16.00	15.36	0.731	-0.030	1.16	0.847	/
			0			Sensor on	100%	0	349000/1745	16.00	15.33	0.980	0.064	1.17	1.143	/
			0			Sensor on	1	214	346000/1730	16.00	15.30	0.972	0.018	1.17	1.142	/
			0			Sensor on	1	214	349000/1745	16.00	15.31	0.835	0.050	1.17	0.979	/
			0			Sensor on	50%	54	346000/1730	16.00	15.09	0.988	0.080	1.23	1.218	/
			0			Sensor on	50%	54	349000/1745	16.00	15.33	0.982	0.090	1.17	1.146	/
			0			Sensor on	100%	0	346000/1730	16.00	15.30	0.957	-0.040	1.17	1.124	/
			0			Sensor on	100%	0	352000/1760	16.00	15.26	0.989	0.028	1.19	1.173	/
			0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Back Side Repeat	0			Sensor on	100%	0	349000/1745	16.00	15.33	1.090	-0.070	1.17	1.272	37
		Front Side	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0			Sensor off	1	214	352000/1760	24.00	23.14	0.067	0.029	1.22	0.082	/
			0			Sensor off	50%	54	352000/1760	24.00	23.19	0.077	-0.080	1.21	0.093	/

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		Top Edge	0			Sensor on	1	1	352000/1760	16.00	15.38	0.481	0.030	1.15	0.555	/
			0			Sensor on	50%	54	352000/1760	16.00	15.36	0.507	0.070	1.16	0.588	/
		Bottom Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
n71 (Original)	ANT0	Back Side	0	SA	CP-OFDM QPSK	Sensor on	1	1	346000/1730	16.00	15.40	0.954	0.040	1.15	1.095	/
			0			Sensor on	50%	25	136100/680.5	24.00	22.75	0.439	-0.100	1.33	0.585	38
		Front Side	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge	0			Sensor off	1	104	134600/673	24.00	22.72	0.075	0.062	1.34	0.101	/
			0			Sensor off	50%	25	136100/680.5	24.00	22.75	0.073	-0.080	1.33	0.097	/
		Top Edge	0			Sensor on	1	104	134600/673	24.00	22.72	0.092	0.041	1.34	0.124	/
			0			Sensor on	50%	25	136100/680.5	24.00	22.75	0.124	0.027	1.33	0.165	/
		Bottom Edge	0			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G (Original)	ANT6	Back Side	0	802.11b	100.0%	Sensor on	6/2437	13.50	12.95	0.898	0.150	1.14	1.019	/
		Back Side	0	802.11b	100.0%	Sensor on	1/2412	13.50	12.54	0.733	0.090	1.25	0.914	/
		Back Side	0	802.11b	100.0%	Sensor on	11/2462	13.50	12.84	0.718	0.037	1.16	0.836	/
		Front Side	0	802.11b	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	802.11b	100.0%	Sensor off	6/2437	19.50	18.81	0.847	0.015	1.17	0.993	/
		Left Edge	0	802.11b	100.0%	Sensor off	1/2412	19.50	18.12	0.793	0.030	1.37	1.090	/
		Left Edge	0	802.11b	100.0%	Sensor off	11/2462	19.50	18.49	0.993	-0.025	1.26	1.253	39
		Right Edge	0	802.11b	100.0%	Sensor off	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11b	100.0%	Sensor on	6/2437	13.50	12.95	0.363	0.070	1.14	0.412	/
		Bottom Edge	0	802.11b	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
U-NII-2A (Original)	ANT6	Back Side	0	802.11a	100.0%	Sensor on	60/5300	13.00	12.18	0.925	0.100	1.21	1.117	/
		Back Side	0	802.11a	100.0%	Sensor on	52/5260	13.00	12.15	0.841	0.029	1.22	1.023	/
		Back Side	0	802.11a	100.0%	Sensor on	64/5320	13.00	12.03	0.565	0.012	1.25	0.706	/
		Front Side	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	802.11a	100.0%	Sensor off	60/5300	19.00	17.60	0.579	0.024	1.38	0.799	/
		Right Edge	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11a	100.0%	Sensor on	60/5300	13.00	12.18	0.838	-0.160	1.21	1.012	/
		Top Edge	0	802.11a	100.0%	Sensor on	52/5260	13.00	12.15	0.977	-0.082	1.22	1.188	40
		Top Edge	0	802.11a	100.0%	Sensor on	64/5320	13.00	12.03	0.624	0.114	1.25	0.780	/
		Bottom Edge	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
U-NII-2C (Original)	ANT6	Back Side	0	802.11a	100.0%	Sensor on	100/5500	13.00	12.07	0.741	0.010	1.24	0.918	/
		Back Side	0	802.11a	100.0%	Sensor on	116/5580	13.00	11.87	0.777	0.025	1.30	1.008	/
		Back Side	0	802.11a	100.0%	Sensor on	140/5700	13.00	11.98	0.728	0.079	1.26	0.921	/
		Front Side	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	802.11a	100.0%	Sensor off	116/5580	19.00	17.85	0.483	0.049	1.30	0.629	/

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		Right Edge	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11a	100.0%	Sensor on	100/5500	13.00	12.07	0.688	-0.190	1.24	0.852	/
		Top Edge	0	802.11a	100.0%	Sensor on	116/5580	13.00	11.87	0.647	0.048	1.30	0.839	/
		Top Edge	0	802.11a	100.0%	Sensor on	140/5700	13.00	11.98	0.701	0.069	1.26	0.887	/
		Bottom Edge	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
U-NII-3 (Original)	ANT6	Back Side	0	802.11a	100.0%	Sensor on	149/5745	13.50	12.96	0.748	0.086	1.13	0.847	/
		Back Side	0	802.11a	100.0%	Sensor on	157/5785	13.50	12.90	0.496	0.012	1.15	0.569	/
		Back Side	0	802.11a	100.0%	Sensor on	165/5825	13.50	12.88	0.549	-0.100	1.15	0.633	/
		Front Side	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	802.11a	100.0%	Sensor off	149/5745	19.00	17.55	0.479	0.038	1.40	0.669	/
		Right Edge	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	802.11a	100.0%	Sensor on	149/5745	13.50	12.96	0.721	0.020	1.13	0.816	/
		Top Edge	0	802.11a	100.0%	Sensor on	157/5785	13.50	12.90	0.924	0.168	1.15	1.061	/
		Top Edge	0	802.11a	100.0%	Sensor on	165/5825	13.50	12.88	0.825	0.026	1.15	0.952	/
		Bottom Edge	0	802.11a	100.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
Bluetooth (Original)	ANT6	Back Side	0	DH5	76.8%	Full Power	39/2441	8.50	8.07	0.271	0.046	1.44	0.390	41
		Front Side	0	DH5	76.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Left Edge	0	DH5	76.8%	Full Power	39/2441	8.50	8.07	0.068	0.044	1.44	0.098	/
		Right Edge	0	DH5	76.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge	0	DH5	76.8%	Full Power	39/2441	8.50	8.07	0.088	0.051	1.44	0.126	/
		Bottom Edge	0	N/A	76.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/

Additional SAR test at a conservative distance (triggering distance minus 1mm)

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)
GSM850 (Original)	ANT0	Back Side	24	4TX Slots	Sensor off	N/A	N/A	190/836.6	29.50	28.44	0.326	0.028	1.28	0.416
		Top Edge	24	4TX Slots	Sensor off	N/A	N/A	190/836.6	29.50	28.44	0.194	0.011	1.28	0.248
GSM1900 (Original)	ANT0	Back Side	24	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.31	0.295	-0.040	1.32	0.388
		Top Edge	24	4TX Slots	Sensor off	N/A	N/A	661/1880	26.50	25.31	0.226	0.015	1.32	0.297
WCDMA II (Original)	ANT0	Back Side	24	RMC	Sensor off	N/A	N/A	9400/1880	24.00	23.23	0.576	0.017	1.19	0.688
		Back Side	24	RMC	Sensor off	N/A	N/A	9262/1852.4	24.00	23.70	0.672	-0.045	1.07	0.720
		Back Side	24	RMC	Sensor off	N/A	N/A	9538/1907.6	24.00	23.35	0.551	0.024	1.16	0.640
		Top Edge	24	RMC	Sensor off	N/A	N/A	9400/1880	24.00	23.23	0.367	-0.011	1.19	0.438
WCDMA IV (Original)	ANT0	Back Side	24	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	23.25	0.690	0.055	1.19	0.820
		Back Side	24	RMC	Sensor off	N/A	N/A	1312/1712.4	24.00	23.31	0.524	0.028	1.17	0.614
		Back Side	24	RMC	Sensor off	N/A	N/A	1513/1752.6	24.00	23.27	0.625	-0.040	1.18	0.739
		Top Edge	24	RMC	Sensor off	N/A	N/A	1312/1712.4	24.00	23.31	0.683	0.130	1.17	0.801
		Top Edge	24	RMC	Sensor off	N/A	N/A	1513/1752.6	24.00	23.27	0.871	0.080	1.18	1.030
		Top Edge	24	RMC	Sensor off	N/A	N/A	1413/1732.6	24.00	23.25	1.070	0.190	1.19	1.272
WCDMA V (Original)	ANT0	Back Side	24	RMC	Sensor off	N/A	N/A	4183/836.6	24.00	22.90	0.245	0.040	1.29	0.316
		Top Edge	24	RMC	Sensor off	N/A	N/A	4183/836.6	24.00	22.90	0.107	0.020	1.29	0.138

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LTE 2 (Original)	ANT0	Back Side	24	QPSK	Sensor off	1	0	18700/1860	24.00	23.70	0.296	0.058	1.07	0.317
			24	QPSK	Sensor off	50%	0	18700/1860	23.00	22.79	0.247	0.038	1.05	0.259
		Top Edge	24	QPSK	Sensor off	1	0	18700/1860	24.00	23.70	0.315	-0.010	1.07	0.338
			24	QPSK	Sensor off	50%	0	18700/1860	23.00	22.79	0.241	0.011	1.05	0.253
LTE 5 (Original)	ANT0	Back Side	24	QPSK	Sensor off	1	0	20450/829	24.00	22.91	0.246	-0.180	1.29	0.316
			24	QPSK	Sensor off	50%	25	20450/829	23.00	21.89	0.316	0.060	1.29	0.408
		Top Edge	24	QPSK	Sensor off	1	0	20450/829	24.00	22.91	0.136	0.026	1.29	0.175
			24	QPSK	Sensor off	50%	25	20450/829	23.00	21.89	0.170	0.033	1.29	0.220
LTE 7 (Original)	ANT2	Back Side	11	QPSK	Sensor off	1	99	20850/2510	24.00	23.06	0.616	0.012	1.24	0.765
			11	QPSK	Sensor off	50%	50	20850/2510	23.00	22.00	0.635	-0.170	1.26	0.799
		Top Edge	11	QPSK	Sensor off	1	99	20850/2510	24.00	23.06	0.412	0.080	1.24	0.512
			11	QPSK	Sensor off	50%	50	20850/2510	23.00	22.00	0.385	0.075	1.26	0.485
LTE 12 (Original)	ANT0	Back Side	24	QPSK	Sensor off	1	49	23060/704	24.00	22.98	0.123	0.020	1.26	0.156
			24	QPSK	Sensor off	50%	25	23095/707.5	23.00	21.85	0.110	-0.015	1.30	0.143
		Top Edge	24	QPSK	Sensor off	1	49	23060/704	24.00	22.98	0.060	0.011	1.26	0.076
			24	QPSK	Sensor off	50%	25	23095/707.5	23.00	21.85	0.088	0.017	1.30	0.115
LTE 26 (Original)	ANT0	Back Side	24	QPSK	Sensor off	1	38	26765/821.5	24.00	22.79	0.213	0.041	1.32	0.281
			24	QPSK	Sensor off	50%	0	26765/821.5	23.00	21.74	0.138	0.027	1.34	0.184
		Top Edge	24	QPSK	Sensor off	1	38	26765/821.5	24.00	22.79	0.078	0.160	1.32	0.103
			24	QPSK	Sensor off	50%	0	26765/821.5	23.00	21.74	0.049	-0.090	1.34	0.065
LTE 41 PC3 (Original)	ANT2	Back Side	11	QPSK	Sensor off	1	99	40185/2549.5	24.00	23.05	0.335	0.055	1.24	0.417
			11	QPSK	Sensor off	50%	50	40185/2549.5	23.00	22.00	0.270	0.027	1.26	0.340
		Top Edge	11	QPSK	Sensor off	1	99	40185/2549.5	24.00	23.05	0.184	0.030	1.24	0.229
			11	QPSK	Sensor off	50%	50	40185/2549.5	23.00	22.00	0.187	0.016	1.26	0.235
LTE 41 PC2 (Original)	ANT2	Back Side	11	QPSK	Sensor off	1	99	40185/2549.5	26.50	25.97	0.487	0.050	1.13	0.550
			11	QPSK	Sensor off	50%	50	40185/2549.5	25.50	24.98	0.465	-0.090	1.13	0.524
		Top Edge	11	QPSK	Sensor off	1	99	40185/2549.5	26.50	25.97	0.357	0.060	1.13	0.403
			11	QPSK	Sensor off	50%	50	40185/2549.5	25.50	24.98	0.353	0.019	1.13	0.398
LTE 66 (Original)	ANT0	Back Side	24	QPSK	Sensor off	1	0	132072/1720	24.00	23.20	0.492	0.050	1.20	0.592
			24	QPSK	Sensor off	50%	0	132072/1720	23.00	22.15	0.476	-0.080	1.22	0.579
		Top Edge	24	QPSK	Sensor off	1	0	132072/1720	24.00	23.20	1.020	0.020	1.20	1.226
			24	QPSK	Sensor off	50%	0	132072/1720	23.00	22.15	0.883	0.090	1.22	1.074
			24	QPSK	Sensor off	100%	0	132072/1720	23.00	22.09	0.926	0.011	1.23	1.142
			24	QPSK	Sensor off	1	0	132322/1745	24.00	23.18	1.060	0.100	1.21	1.280
			24	QPSK	Sensor off	1	99	132572/1770	24.00	23.06	0.815	0.035	1.24	1.012
			24	QPSK	Sensor off	50%	50	132322/1745	23.00	21.99	0.986	0.047	1.26	1.244
			24	QPSK	Sensor off	50%	0	132572/1770	23.00	22.13	0.779	0.030	1.22	0.952
			24	QPSK	Sensor off	100%	0	132322/1745	23.00	21.94	0.988	-0.010	1.28	1.261
			24	QPSK	Sensor off	100%	0	132572/1770	23.00	22.08	0.745	0.027	1.24	0.921
			24	QPSK	Sensor off	100%	0	132572/1770	23.00	22.08	0.745	0.027	1.24	0.921
LTE 71 (Original)	ANT0	Back Side	24	QPSK	Sensor off	1	50	133372/688	24.00	22.80	0.212	0.010	1.32	0.279
			24	QPSK	Sensor off	50%	50	133222/673	23.00	21.68	0.174	0.071	1.36	0.236
		Top Edge	24	QPSK	Sensor off	1	50	133372/688	24.00	22.80	0.090	0.035	1.32	0.119
			24	QPSK	Sensor off	50%	50	133222/673	23.00	21.68	0.108	-0.028	1.36	0.146

Band	Antenna	Dist. (mm)	Test Position	Type	Mode	Power Reduction	RB	offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)
n25 (Original)	ANT0	24	Back Side	SA	DFT-s-OFDM	Sensor off	1	1	376500/1882.5	24.00	22.47	0.160	0.010	1.42	0.228
		24				Sensor off	50%	54	376500/1882.5	24.00	22.26	0.178	0.038	1.49	0.266
		24	Top Edge		QPSK	Sensor off	1	1	376500/1882.5	24.00	22.47	0.155	0.030	1.42	0.220
		24				Sensor off	50%	54	376500/1882.5	24.00	22.26	0.140	-0.047	1.49	0.209
n41 PC2 (Original)	ANT2	11	Back Side	SA	DFT-s-OFDM	Sensor off	1	1	528000/2640	26.50	25.58	0.280	0.010	1.24	0.346
		11				Sensor off	50%	67	518598/2592.99	26.50	25.38	0.254	0.040	1.29	0.329
		11	Top Edge		QPSK	Sensor off	1	1	528000/2640	26.50	25.58	0.265	0.011	1.24	0.328
		11				Sensor off	50%	67	518598/2592.99	26.50	25.38	0.129	0.020	1.29	0.167
n66 (Original)	ANT0	24	Back Side	SA	DFT-s-OFDM	Sensor off	1	214	352000/1760	24.00	23.14	0.338	0.048	1.22	0.412
		24				Sensor off	50%	54	352000/1760	24.00	23.19	0.346	-0.100	1.21	0.417
		24	Top Edge		QPSK	Sensor off	1	214	352000/1760	24.00	23.14	0.463	0.064	1.22	0.564
		24				Sensor off	50%	54	352000/1760	24.00	23.19	0.501	0.049	1.21	0.604
n71 (Original)	ANT0	24	Back Side	SA	DFT-s-OFDM	Sensor off	1	104	134600/673	24.00	22.72	0.001	0.010	1.34	0.001
		24				Sensor off	50%	25	136100/680.5	24.00	22.75	0.001	0.029	1.33	0.001
		24	Top Edge		QPSK	Sensor off	1	104	134600/673	24.00	22.72	0.001	-0.030	1.34	0.001
		24				Sensor off	50%	25	136100/680.5	24.00	22.75	0.001	0.022	1.33	0.001

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)
2.4G (Original)	ANT6	Back Side	14	11b	100.0%	Sensor off	6/2437	20.00	18.81	0.472	-0.050	1.32	0.621
		Top Edge	13	11b	100.0%	Sensor off	6/2437	20.00	18.81	0.153	0.100	1.32	0.201
U-NII-2A (Original)	ANT6	Back Side	14	11a	100.0%	Sensor off	60/5300	19.00	17.60	0.847	0.022	1.38	1.169
		Back Side	14	11a	100.0%	Sensor off	52/5260	19.00	17.32	0.713	0.170	1.47	1.050
		Back Side	14	11a	100.0%	Sensor off	64/5320	19.00	17.39	0.652	0.035	1.45	0.945
		Top Edge	13	11a	100.0%	Sensor off	60/5300	19.00	17.60	0.866	0.034	1.38	1.195
		Top Edge	13	11a	100.0%	Sensor off	52/5260	19.00	17.32	0.806	-0.070	1.47	1.187
		Top Edge	13	11a	100.0%	Sensor off	64/5320	19.00	17.39	0.824	0.093	1.45	1.194
U-NII-2C (Original)	ANT6	Back Side	14	11a	100.0%	Sensor off	120/5600	19.00	17.80	0.434	0.105	1.32	0.572
		Top Edge	13	11a	100.0%	Sensor off	120/5600	19.00	17.80	0.841	0.045	1.32	1.109
		Top Edge	13	11a	100.0%	Sensor off	116/5580	19.00	17.54	0.770	0.030	1.40	1.078
		Top Edge	13	11a	100.0%	Sensor off	140/5700	19.00	17.51	0.489	0.060	1.41	0.689
U-NII-3 (Original)	ANT6	Back Side	14	11a	100.0%	Sensor off	149/5745	19.00	17.55	0.381	0.026	1.40	0.532
		Top Edge	13	11a	100.0%	Sensor off	149/5745	19.00	17.55	0.439	0.067	1.40	0.613

10.2 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Body SAR
WWAN + Wi-Fi 2.4GHz	Yes
WWAN + Wi-Fi 5GHz	Yes
WWAN + Bluetooth	Yes
WWAN + Wi-Fi 2.4GHz+ Bluetooth	Yes
Wi-Fi 2.4GHz+ Bluetooth	Yes
WWAN + Wi-Fi 5GHz+ Bluetooth	N/A

General Note:

1. The Scaled SAR summation is calculated based on the same configuration and test position.
2. Per KDB 447498 D01, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation $< 1.6\text{W/kg}$, simultaneously transmission SAR measurement is not necessary.
 - ii) $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

The Maximum SAR_{1g} Value

SAR _{1g} (W/kg) Test Position		GSM 850	GSM 1900	WCDMA Band II	WCDMA IV	WCDMA Band V	LTE 2	LTE 5	LTE 7	LTE 12	LTE 26	LTE 41 PC3	LTE 41 PC2	LTE 66	LTE 71	MAX. SAR _{1g}
Body SAR	Back Side	1.232	1.167	1.280	0.983	1.035	1.281	0.972	0.662	1.190	1.075	0.799	0.707	1.113	0.797	1.281
	Front Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Left Edge	0.119	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.119
	Right Edge	1.123	0.467	0.652	0.368	0.797	0.597	0.893	N/A	0.573	0.694	0.156	0.131	0.212	0.450	1.123
	Top Edge	0.618	0.762	0.595	0.699	0.435	0.918	0.726	0.259	0.489	0.617	0.281	0.215	0.796	0.353	0.918
	Bottom Edge	0.108	0.095	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SAR _{1g} (W/kg) Test Position		n25	n41 PC2	n66	n71	MAX. SAR _{1g}
Body SAR	Back Side	1.148	0.887	1.272	0.585	1.272
	Front Side	N/A	N/A	N/A	N/A	N/A
	Left Edge	N/A	N/A	N/A	N/A	N/A
	Right Edge	0.197	N/A	0.093	0.101	0.197
	Top Edge	0.648	0.249	0.588	0.165	0.648
	Bottom Edge	N/A	N/A	N/A	N/A	N/A

About Bluetooth, Wi-Fi and WWAN Antenna

SAR _{1g} (W/kg) Test Position		GSM/ WCDMA/ LTE	NR	Wi-Fi 2.4GHz	Wi-Fi 5GHz			Bluetooth	MAX. ΣSAR _{1g}	
					U-NII-2A	U-NII-2C	U-NII-3			
		1	2	3	4	5	6	7	Max. (1,2)+3+7	Max. (1,2)+Max. (4-6)
Body SAR	Back Side	1.281	1.272	1.019	1.117	1.008	0.847	0.390	2.690	2.398
	Front Side	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
	Left Edge	0.119	N/A	1.253	0.799	0.629	0.669	0.098	1.470	0.918
	Right Edge	1.123	0.197	N/A	N/A	N/A	N/A	N/A	N/A	1.123
	Top Edge	0.918	0.648	0.412	1.188	0.887	1.061	0.126	1.456	2.106
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note:

1. MAX. ΣSAR_{1g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}

2. MAX. ΣSAR_{1g} = 2.694W/kg > 1.6W/kg

So, the SAR to peak location separation ratio should be considered

Multi-Band Average SAR WIFI 2.4G+BT

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

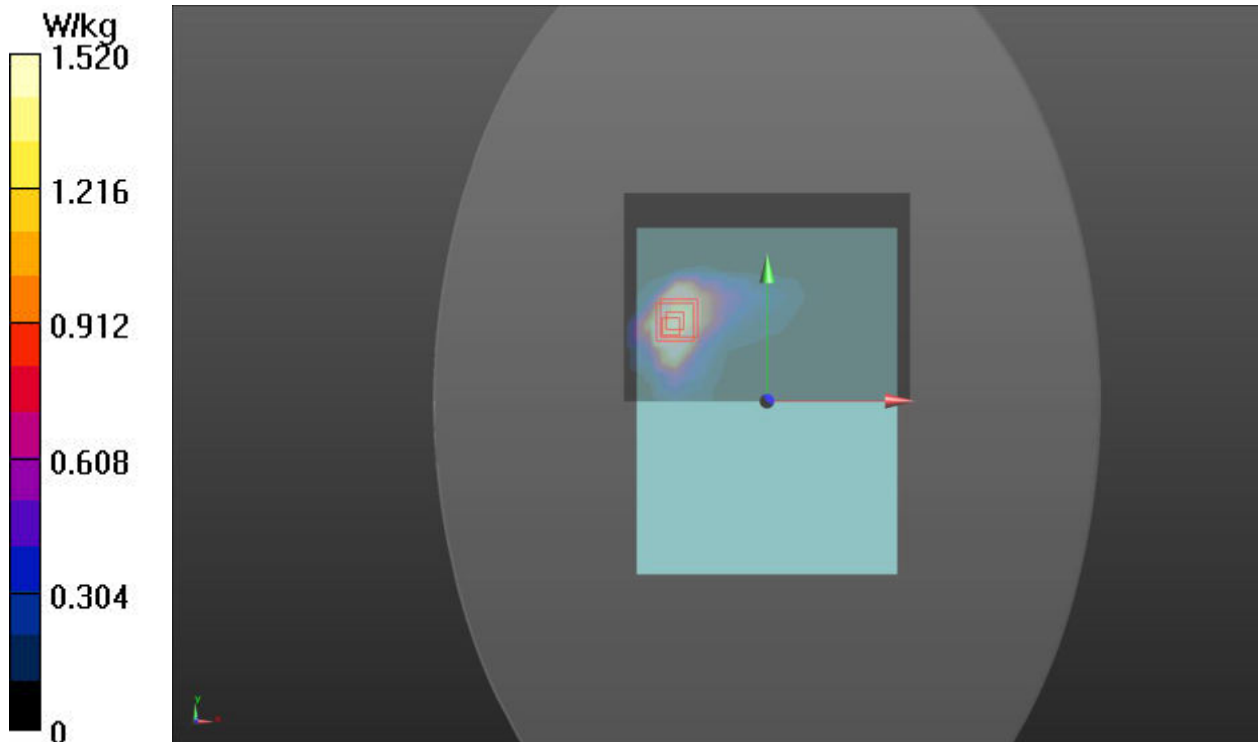
DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Multi Band Result:

SAR(1 g) = 0.975 W/kg; SAR(10 g) = 0.411 W/kg

Maximum value of SAR (interpolated) = 1.520 W/kg



Band	Back Side					Top Edge		
	WWAN	Wi-Fi 2.4GHz + Bluetooth	WWAN + Wi-Fi 2.4GHz + Bluetooth	Wi-Fi 5GHz	WWAN + Wi-Fi 5GHz	WWAN	Wi-Fi 5GHz	WWAN + Wi-Fi 5GHz
GSM 850	1.232	0.975	2.207	1.117	2.349	0.618	1.188	1.806
GSM 1900	1.167	0.975	2.142	1.117	2.284	0.762	1.188	1.950
WCDMA II	1.280	0.975	2.255	1.117	2.397	0.595	1.188	1.783
WCDMA IV	0.983	0.975	1.958	1.117	2.100	0.699	1.188	1.887
WCDMA V	1.035	0.975	2.010	1.117	2.152	0.435	1.188	1.623
LTE 2	1.281	0.975	2.256	1.117	2.398	0.918	1.188	2.106
LTE 5	0.972	0.975	1.947	1.117	2.089	0.726	1.188	1.914
LTE 7	0.662	0.975	1.637	1.117	1.779	0.259	1.188	1.447
LTE 12	1.19	0.975	2.165	1.117	2.307	0.489	1.188	1.677
LTE 26	1.075	0.975	2.050	1.117	2.192	0.617	1.188	1.805
LTE 41 PC3	0.799	0.975	1.774	1.117	1.916	0.281	1.188	1.469
LTE 41 PC2	0.707	0.975	1.682	1.117	1.824	0.215	1.188	1.403
LTE 66	1.113	0.975	2.088	1.117	2.230	0.796	1.188	1.984
LTE 71	0.797	0.975	1.772	1.117	1.914	0.353	1.188	1.541
NR n25	1.148	0.975	2.123	1.117	2.265	0.648	1.188	1.836
NR n41 PC2	0.887	0.975	1.862	1.117	2.004	0.249	1.188	1.437
NR n66	1.272	0.975	2.247	1.117	2.389	0.588	1.188	1.776
NR n71	0.585	0.975	1.560	1.117	1.702	0.165	1.188	1.353

Note:

1. The value with blue color is the SAR_{1g}>1.6 W/kg.

2. When the MAX. Σ SAR_{1g}>1.6 W/kg in a position, Ratio need consideration in this position.

Back Side, WWAN + Wi-Fi 2.4GHz + Bluetooth

GSM850+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-38.5	-54.5	-181.1
The position SAR2	-49.5	48	-182.9
Ri(mm)	103.1042676		
SAR1(W/Kg)	1.232		
SAR2(W/Kg)	0.975		
Ratio	0.032		

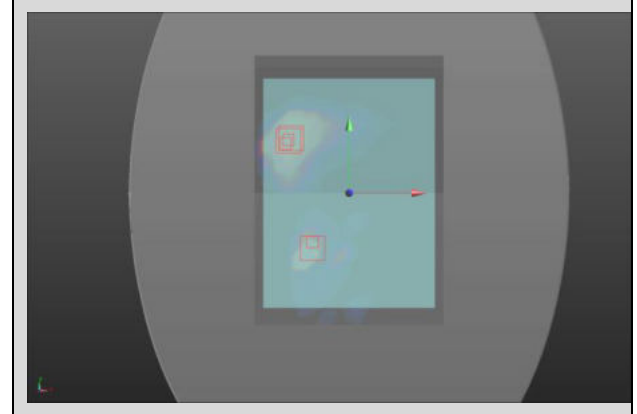
GSM1900+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-39	-51.5	-180.6
The position SAR2	-49.5	48	-182.9
Ri(mm)	100.0789189		
SAR1(W/Kg)	1.167		
SAR2(W/Kg)	0.975		
Ratio	0.031		

WCDMA 2+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-37.5	-50.5	-180.8
The position SAR2	-49.5	48	-182.9
Ri(mm)	99.25049118		
SAR1(W/Kg)	1.280		
SAR2(W/Kg)	0.975		
Ratio	0.034		

WCDMA 4+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-37.5	-50.5	-180.5
The position SAR2	-49.5	48	-182.9
Ri(mm)	99.25729192		
SAR1(W/Kg)	0.983		
SAR2(W/Kg)	0.975		
Ratio	0.028		

WCDMA 5+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-38	-51.5	-180.4
The position SAR2	-49.5	48	-182.9
Ri(mm)	100.1935627		
SAR1(W/Kg)	1.035		
SAR2(W/Kg)	0.975		
Ratio	0.028		

LTE2+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-37	-54	-180.4
The position SAR2	-49.5	48	-182.9
Ri(mm)	102.7934823		
SAR1(W/Kg)	1.281		
SAR2(W/Kg)	0.975		
Ratio	0.033		



LTE5+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-37.5	-53.5	-180.2
The position SAR2	-49.5	48	-182.9
Ri(mm)	102.2425547		
SAR1(W/Kg)	0.972		
SAR2(W/Kg)	0.975		
Ratio	0.027		

LTE7+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-51	-26.5	-180.1
The position SAR2	-49.5	48	-182.9
Ri(mm)	74.56768737		
SAR1(W/Kg)	0.662		
SAR2(W/Kg)	0.975		
Ratio	0.028		

LTE12+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-38	-53	-180
The position SAR2	-49.5	48	-182.9
Ri(mm)	101.6939526		
SAR1(W/Kg)	1.190		
SAR2(W/Kg)	0.975		
Ratio	0.031		

LTE26+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-38	-53.5	-180.1
The position SAR2	-49.5	48	-182.9
Ri(mm)	102.1877683		
SAR1(W/Kg)	1.075		
SAR2(W/Kg)	0.975		
Ratio	0.029		

LTE41+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-50.5	-27.5	-180.3
The position SAR2	-49.5	48	-182.9
Ri(mm)	75.55137325		
SAR1(W/Kg)	0.799		
SAR2(W/Kg)	0.975		
Ratio	0.031		

LTE66+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-37	-54	-179.8
The position SAR2	-49.5	48	-182.9
Ri(mm)	102.8098244		
SAR1(W/Kg)	1.113		
SAR2(W/Kg)	0.975		
Ratio	0.029		

LTE71+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-39.5	-51.5	-181.1
The position SAR2	-49.5	48	-182.9
Ri(mm)	100.0174485		
SAR1(W/Kg)	0.797		
SAR2(W/Kg)	0.975		
Ratio	0.024		

n25+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-36.5	-52.5	-182.5
The position SAR2	-49.5	48	-182.9
Ri(mm)	101.3380975		
SAR1(W/Kg)	1.148		
SAR2(W/Kg)	0.975		
Ratio	0.031		

n41+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-48.5	-28	-180.3
The position SAR2	-49.5	48	-182.9
Ri(mm)	76.0510355		
SAR1(W/Kg)	0.887		
SAR2(W/Kg)	0.975		
Ratio	0.033		

n66+Wi-Fi 2.4GHz&Bluetooth			
	X	Y	Z
The position SAR1	-38.5	-53.5	-182.1
The position SAR2	-49.5	48	-182.9
Ri(mm)	102.0974534		
SAR1(W/Kg)	1.272		
SAR2(W/Kg)	0.975		
Ratio	0.033		

Back Side, WWAN + Wi-Fi 5GHz

GSM850+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-38.5	-54.5	-181.1
The position SAR2	-49	44	-183
Ri(mm)	99.07628374		
SAR1(W/Kg)	1.232		
SAR2(W/Kg)	1.117		
Ratio	0.036		

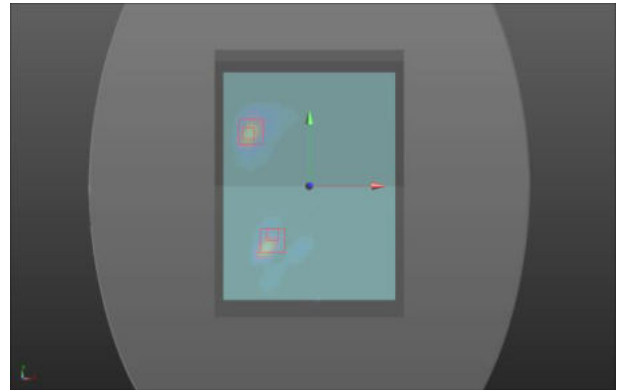
GSM1900+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-39	-51.5	-180.6
The position SAR2	-49	44	-183
Ri(mm)	96.05212127		
SAR1(W/Kg)	1.167		
SAR2(W/Kg)	1.117		
Ratio	0.036		

WCDMA 2+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-37.5	-50.5	-180.8
The position SAR2	-49	44	-183
Ri(mm)	95.22258136		
SAR1(W/Kg)	1.280		
SAR2(W/Kg)	1.117		
Ratio	0.039		

WCDMA 4+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-37.5	-50.5	-180.5
The position SAR2	-49	44	-183
Ri(mm)	95.22998477		
SAR1(W/Kg)	0.983		
SAR2(W/Kg)	1.117		
Ratio	0.032		

WCDMA 5+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-38	-51.5	-180.4
The position SAR2	-49	44	-183
Ri(mm)	96.16657423		
SAR1(W/Kg)	1.035		
SAR2(W/Kg)	1.117		
Ratio	0.033		

LTE2+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-37	-54	-180.4
The position SAR2	-49	44	-183
Ri(mm)	98.76618855		
SAR1(W/Kg)	1.281		
SAR2(W/Kg)	1.117		
Ratio	0.038		



LTE5+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-37.5	-53.5	-180.2
The position SAR2	-49	44	-183
Ri(mm)	98.21578285		
SAR1(W/Kg)	0.972		
SAR2(W/Kg)	1.117		
Ratio	0.031		

LTE7+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-51	-26.5	-180.1
The position SAR2	-49	44	-183
Ri(mm)	70.58795931		
SAR1(W/Kg)	0.662		
SAR2(W/Kg)	1.117		
Ratio	0.034		

LTE12+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-38	-53	-180
The position SAR2	-49	44	-183
Ri(mm)	97.66780432		
SAR1(W/Kg)	1.190		
SAR2(W/Kg)	1.117		
Ratio	0.036		

LTE26+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-38	-53.5	-180.1
The position SAR2	-49	44	-183
Ri(mm)	98.16139771		
SAR1(W/Kg)	1.075		
SAR2(W/Kg)	1.117		
Ratio	0.033		

LTE41+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-50.5	-27.5	-180.3
The position SAR2	-49	44	-183
Ri(mm)	71.56668219		
SAR1(W/Kg)	0.799		
SAR2(W/Kg)	1.117		
Ratio	0.037		

LTE66+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-37	-54	-179.8
The position SAR2	-49	44	-183
Ri(mm)	98.78380434		
SAR1(W/Kg)	1.113		
SAR2(W/Kg)	1.117		
Ratio	0.034		

LTE71+ Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-39.5	-51.5	-181.1
The position SAR2	-49	44	-183
Ri(mm)	95.99015575		
SAR1(W/Kg)	0.797		
SAR2(W/Kg)	1.117		
Ratio	0.028		

n25+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-36.5	-52.5	-182.5
The position SAR2	-49	44	-183
Ri(mm)	97.30750228		
SAR1(W/Kg)	1.148		
SAR2(W/Kg)	1.117		
Ratio	0.035		

n41+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-48.5	-28	-180.3
The position SAR2	-49	44	-183
Ri(mm)	72.05234209		
SAR1(W/Kg)	0.887		
SAR2(W/Kg)	1.117		
Ratio	0.039		

n66+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-38.5	-53.5	-182.1
The position SAR2	-49	44	-183
Ri(mm)	98.06788465		
SAR1(W/Kg)	1.272		
SAR2(W/Kg)	1.117		
Ratio	0.038		

Top Edge, WWAN + Wi-Fi 5GHz

GSM850+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-14.5	106.5	-180.3
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	193.0030052		
SAR1(W/Kg)	0.618		
SAR2(W/Kg)	1.188		
Ratio	0.013		

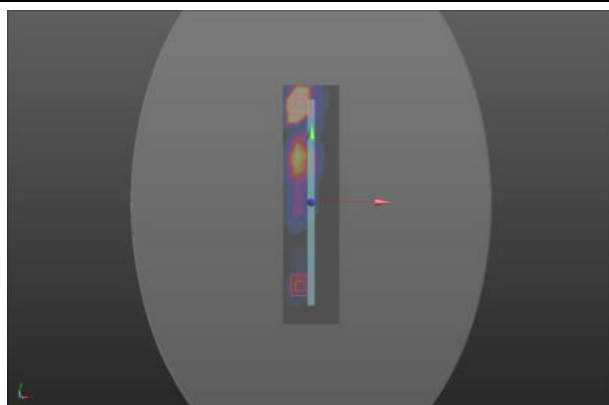
GSM1900+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-15	107	-179.8
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	193.5058397		
SAR1(W/Kg)	0.762		
SAR2(W/Kg)	1.188		
Ratio	0.014		

WCDMA 2+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-16.5	109.5	-180.4
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	196.0235955		
SAR1(W/Kg)	0.595		
SAR2(W/Kg)	1.188		
Ratio	0.012		

WCDMA 4+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-14.5	106	-180.3
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	192.503013		
SAR1(W/Kg)	0.699		
SAR2(W/Kg)	1.188		
Ratio	0.013		

LTE2+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-13.5	108.5	-180.2
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	195.0002308		
SAR1(W/Kg)	0.918		
SAR2(W/Kg)	1.188		
Ratio	0.016		

LTE5+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-16.5	107.5	-180.8
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	194.0252819		
SAR1(W/Kg)	0.726		
SAR2(W/Kg)	1.188		
Ratio	0.014		



LTE12+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-15.5	107	-180.2
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	193.5105682		
SAR1(W/Kg)	0.489		
SAR2(W/Kg)	1.188		
Ratio	0.011		

LTE26+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-15	105.5	-180.3
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	192.0062759		
SAR1(W/Kg)	0.617		
SAR2(W/Kg)	1.188		
Ratio	0.013		

LTE66+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-14.5	108	-181.1
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	194.5062724		
SAR1(W/Kg)	0.796		
SAR2(W/Kg)	1.188		
Ratio	0.014		

n25+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-16	109	-180.4
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	195.5166233		
SAR1(W/Kg)	0.648		
SAR2(W/Kg)	1.188		
Ratio	0.013		

n66+Wi-Fi 5GHz			
	X	Y	Z
The position SAR1	-17	105.5	-180.5
The position SAR2	-13.5	-86.5	-179.9
Ri(mm)	192.0328357		
SAR1(W/Kg)	0.588		
SAR2(W/Kg)	1.188		
Ratio	0.012		

So the Simultaneous transmission SAR with volume scan are not required for Bluetooth, Wi-Fi and WWAN Antenna.

11 Measurement Uncertainty

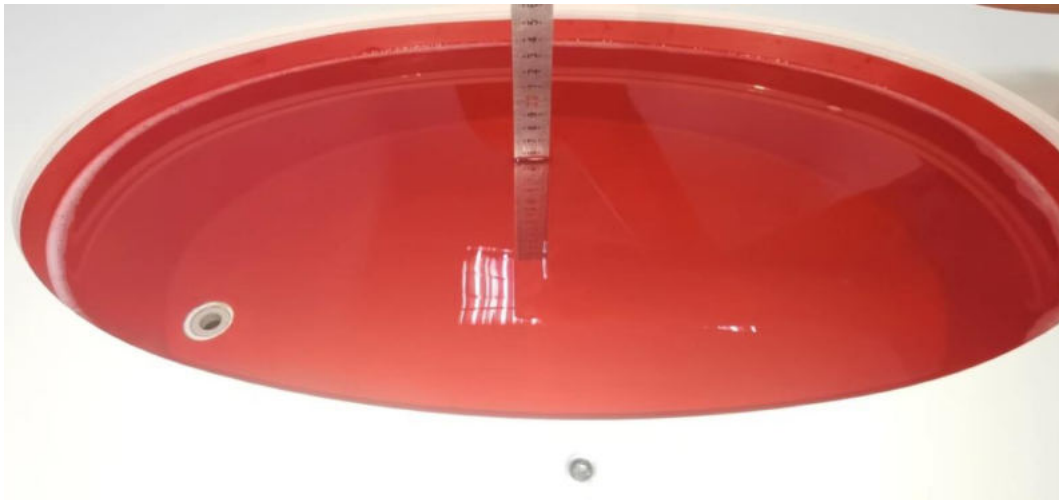
Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval.

ANNEX A: Test Layout



Tissue Simulating Liquids

For the measurement of the field distribution inside the flat phantom with DASY, the phantom must be filled with around 25 liters of homogeneous tissue simulating liquid. For SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is >15 cm, which is shown as below.



Picture 3: Liquid depth in the flat Phantom

ANNEX B: System Check Results

Original

Plot 1 System Performance Check at 750 MHz TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3

Date: 2/27/2025

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.15 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 50.165 V/m ; Power Drift = -0.08 dB

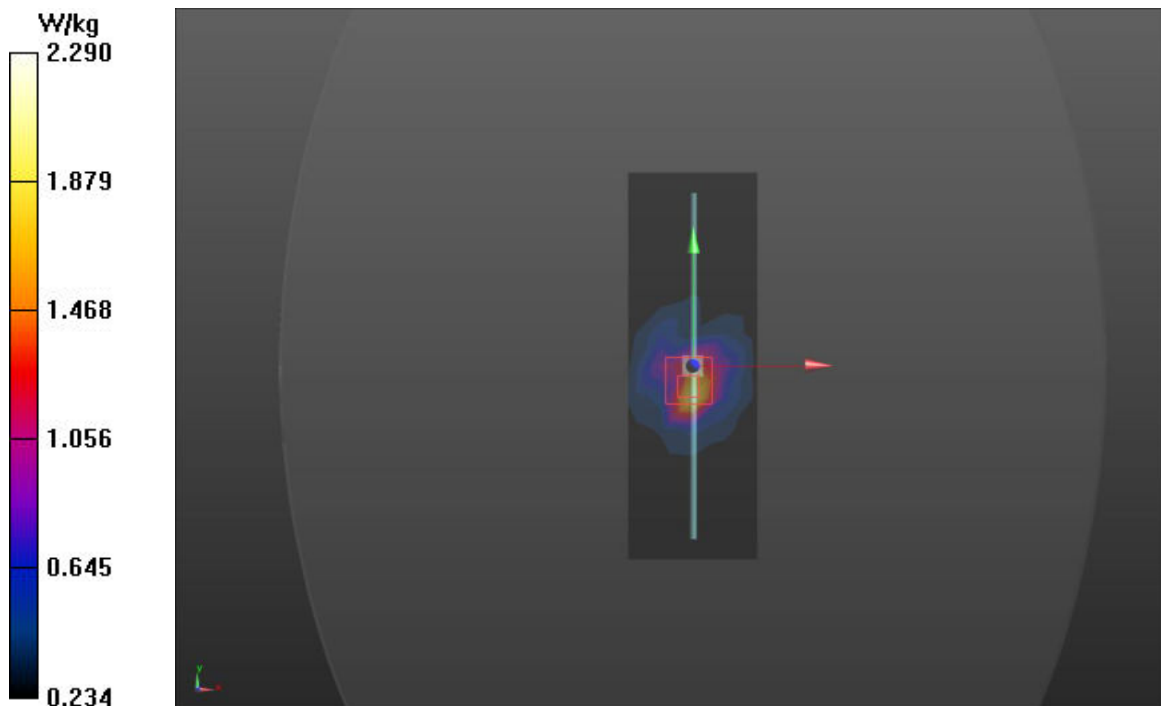
Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.13 W/kg ; SAR(10 g) = 1.41 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 62.5%

Maximum value of SAR (measured) = 2.29 W/kg



Plot 2 System Performance Check at 750 MHz TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3

Date: 2/26/2025

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 42.0$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.11 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.515 V/m ; Power Drift = 0.11 dB

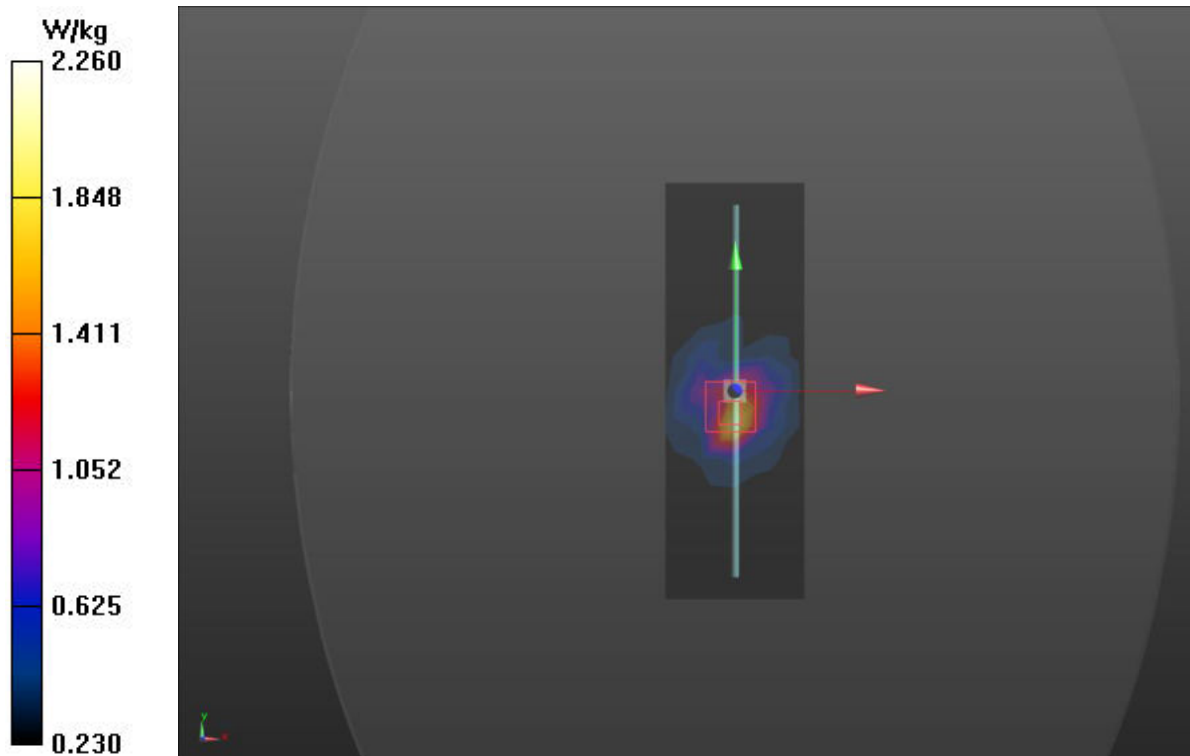
Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 2.10 W/kg ; SAR(10 g) = 1.37 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 69.4%

Maximum value of SAR (measured) = 2.260 W/kg



Plot 3 System Performance Check at 835 MHz TSL

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2

Date: 2/13/2025

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.58 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.241 V/m; Power Drift = -0.076 dB

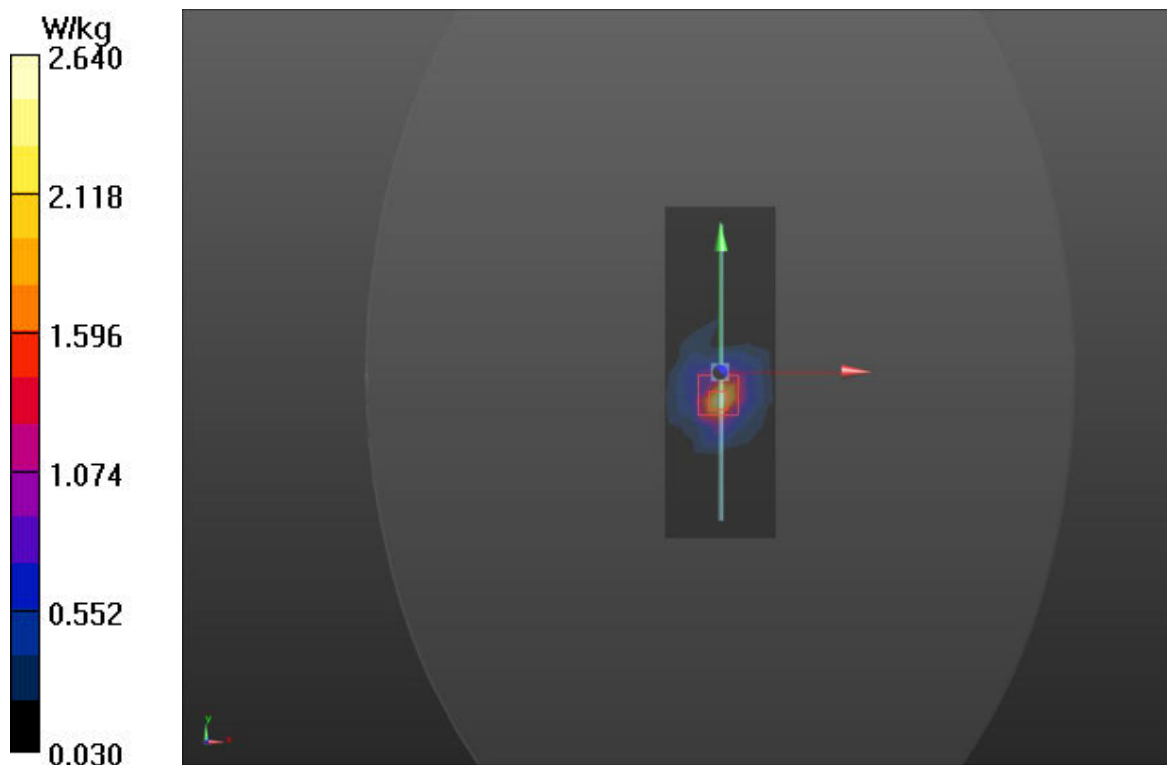
Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg

Smallest distance from peaks to all points 3 dB below = 16.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.1%

Maximum value of SAR (measured) = 2.64 W/kg



Plot 4 System Performance Check at 835 MHz TSL**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2**

Date: 2/24/2025

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 41.3$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

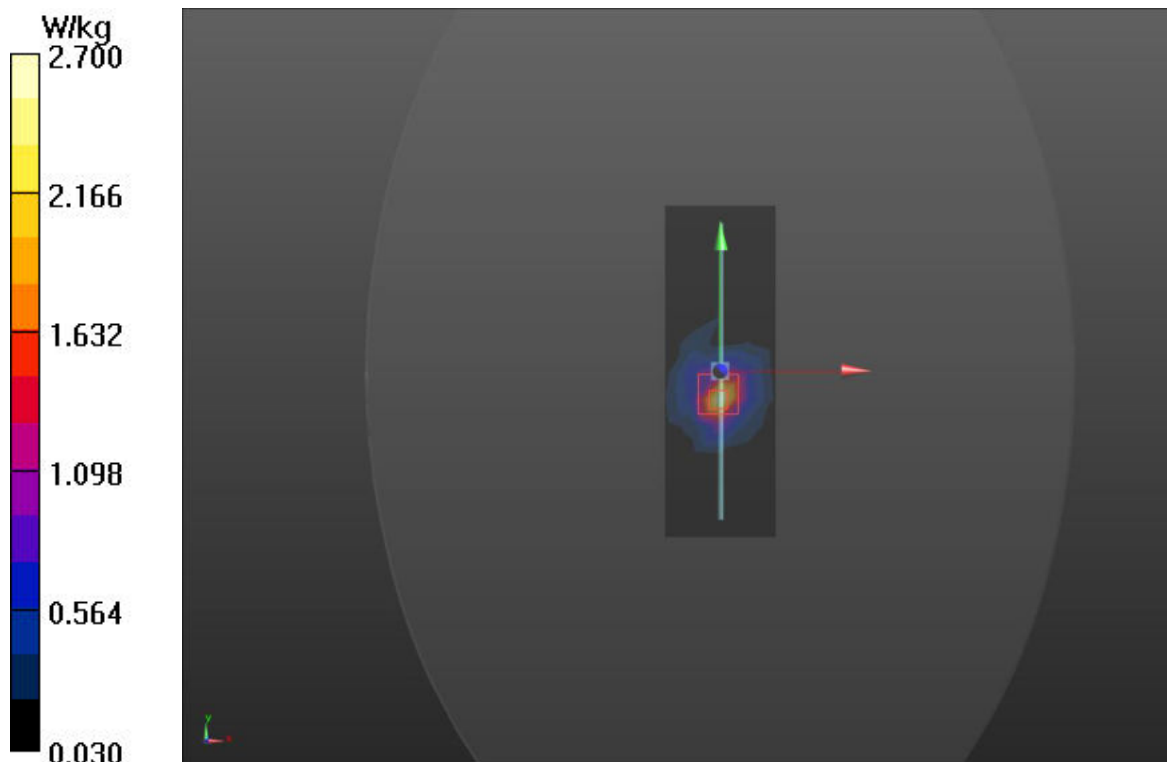
Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (measured) = 2.59 W/kg **d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 52.023 V/m ; Power Drift = -0.06 dB Peak SAR (extrapolated) = 3.25 W/kg **SAR(1 g) = 2.46 W/kg ; SAR(10 g) = 1.65 W/kg** Smallest distance from peaks to all points 3 dB below = 15.7 mm Ratio of SAR at M2 to SAR at M1 = 65.4% Maximum value of SAR (measured) = 2.70 W/kg 

Plot 5 System Performance Check at 835 MHz TSL**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2**

Date: 2/28/2025

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 41.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=15mm, Pin=250mW/Area Scan (4x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.52 W/kg

d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.435 V/m; Power Drift = -0.014 dB

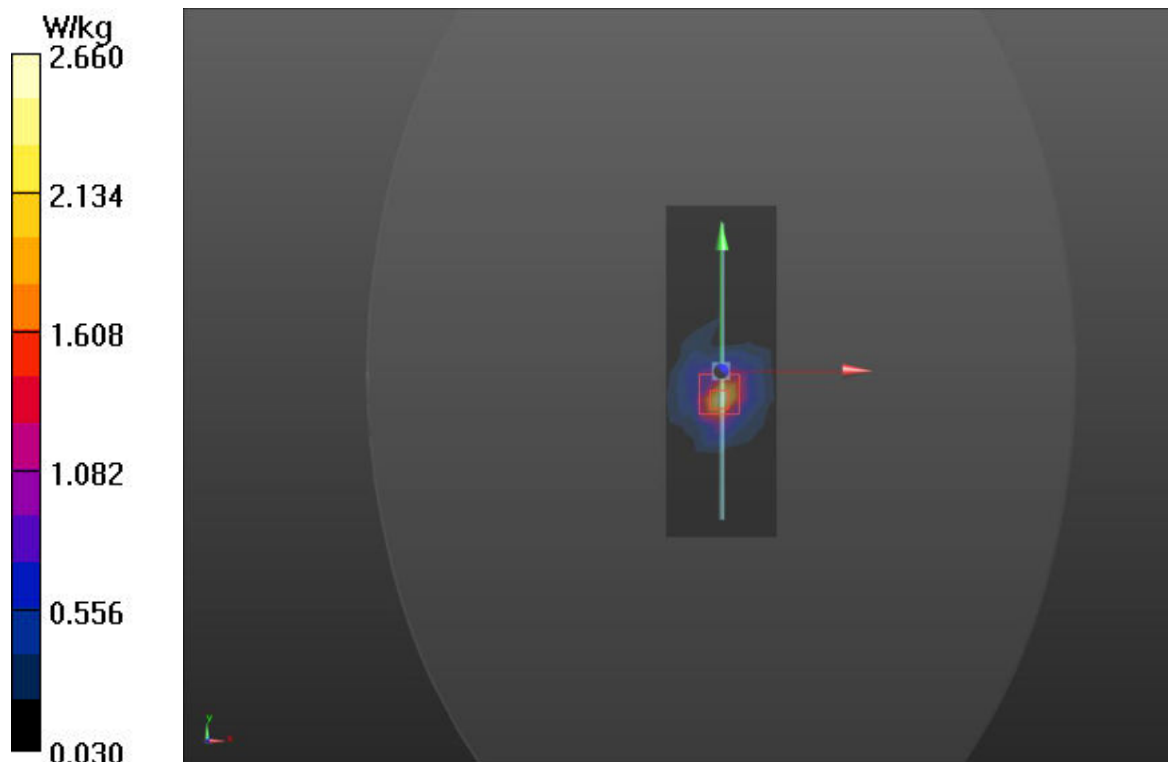
Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.61 W/kg

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 2.660 W/kg



Plot 6 System Performance Check at 1750 MHz TSL**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2**

Date: 2/14/2025

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.18 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.385 V/m; Power Drift = 0.075 dB

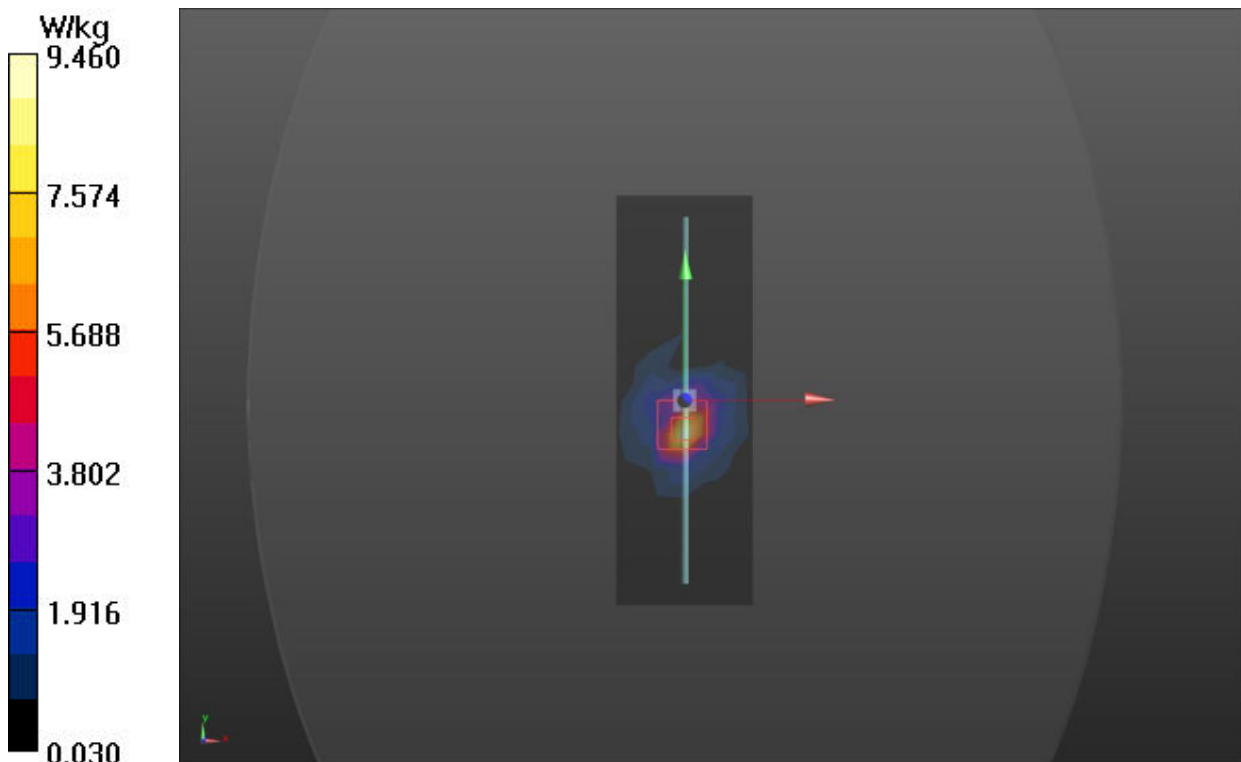
Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 8.95 W/kg; SAR(10 g) = 4.8 W/kg

Smallest distance from peaks to all points 3 dB below = 10mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 9.46 W/kg



Plot 7 System Performance Check at 1750 MHz TSL**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2**

Date: 2/18/2025

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.77 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.134 V/m; Power Drift = 0.055 dB

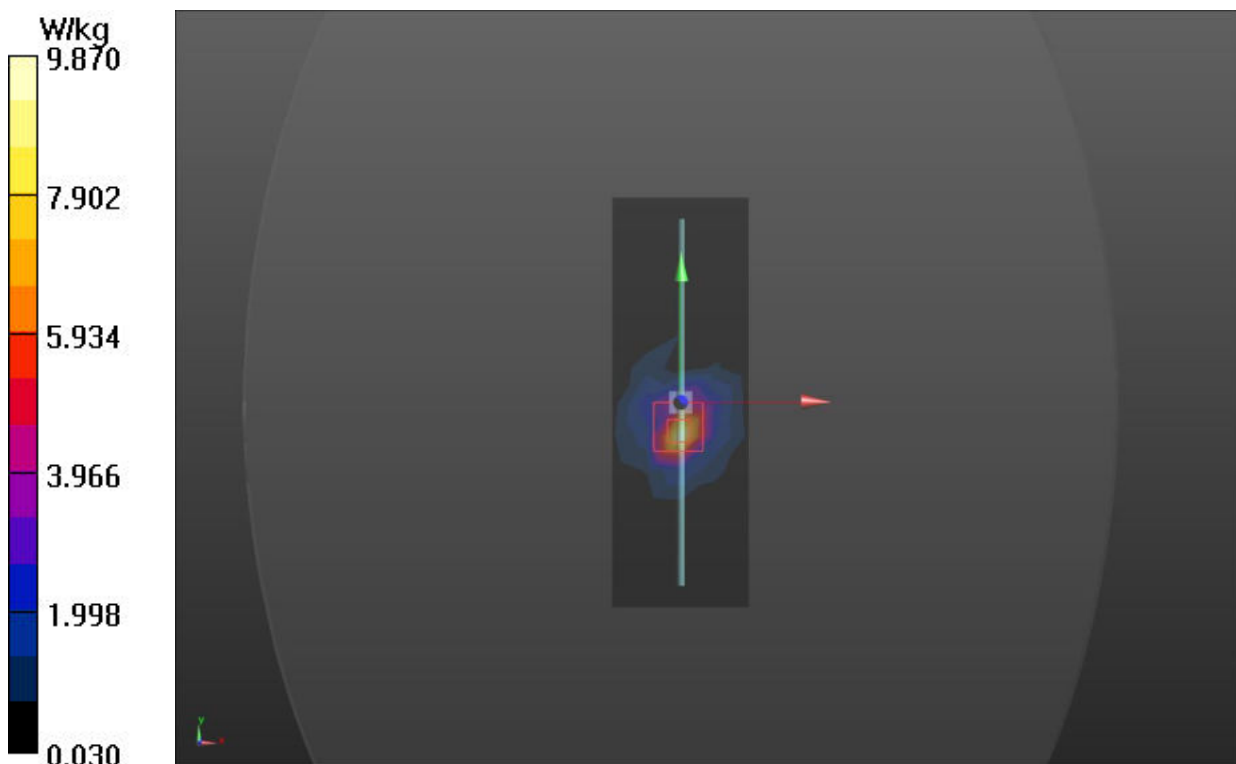
Peak SAR (extrapolated) = 15.81 W/kg

SAR(1 g) = 9.11 W/kg; SAR(10 g) = 4.77 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 9.87 W/kg



Plot 8System Performance Check at 1750 MHz TSL**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2**

Date: 2/21/2025

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.11 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.648 V/m; Power Drift = 0.023 dB

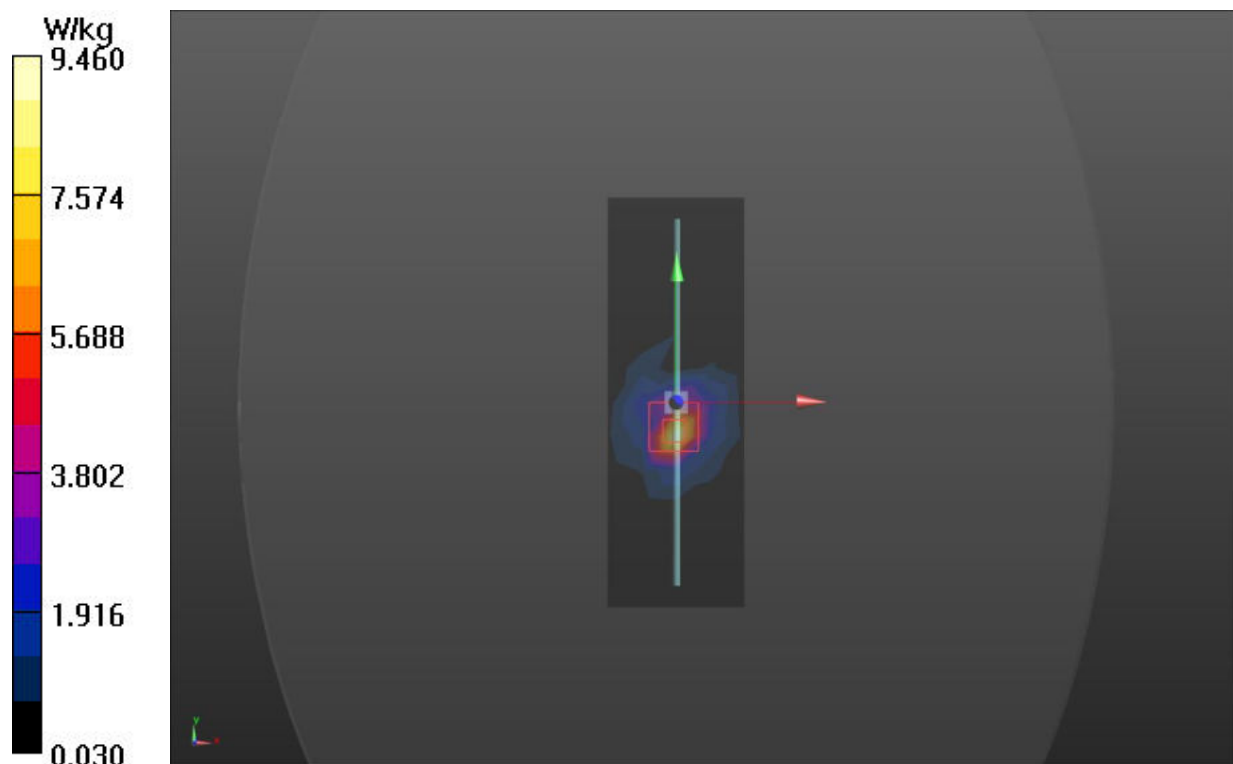
Peak SAR (extrapolated) = 15.74 W/kg

SAR(1 g) = 8.96 W/kg; SAR(10 g) = 4.75 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 9.46 W/kg



Plot 9 System Performance Check at 1900 MHz TSL**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2**

Date: 2/15/2025

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.23 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 85.857V/m; Power Drift = 0.026 dB

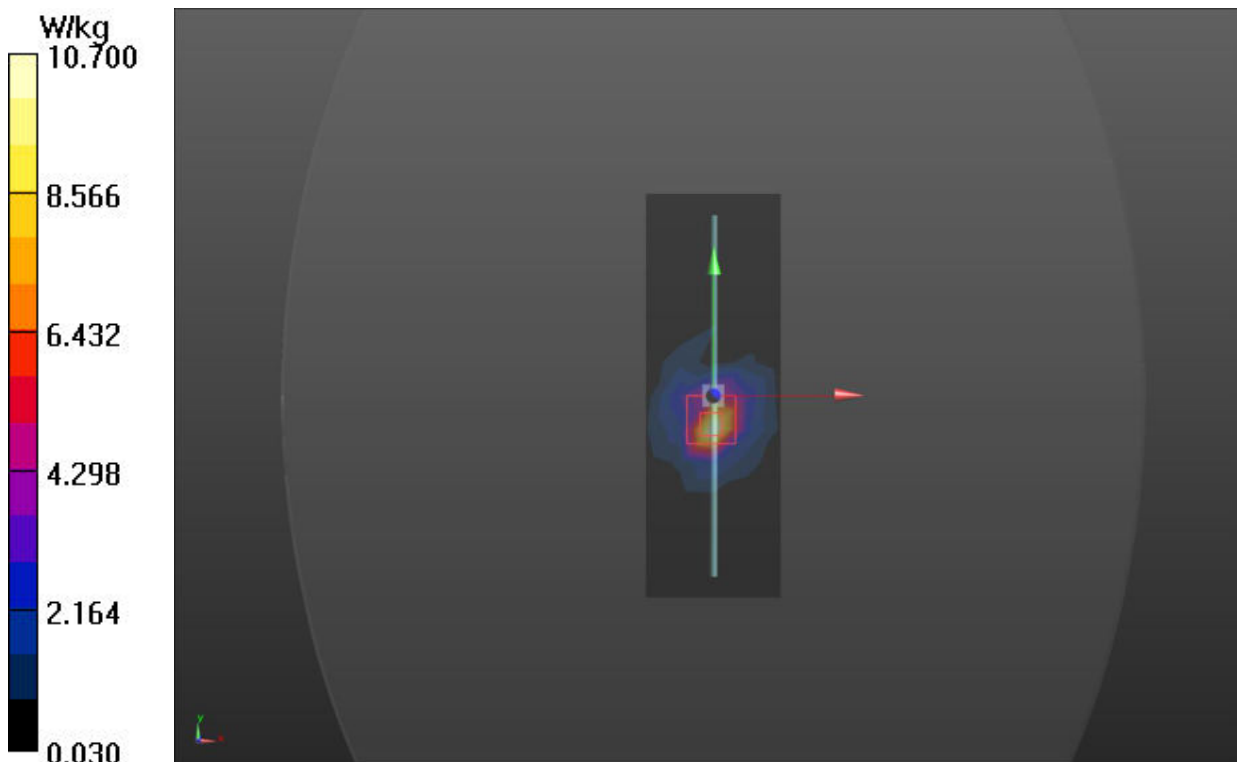
Peak SAR (extrapolated) = 17.84 W/kg

SAR(1 g) = 9.88 W/kg; SAR(10 g) = 4.9 W/kg

Smallest distance from peaks to all points 3 dB below = 11.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 10.70 W/kg



Plot 10 System Performance Check at 1900 MHz TSL**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2**

Date: 2/22/2025

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.43 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.324 V/m; Power Drift = 0.013 dB

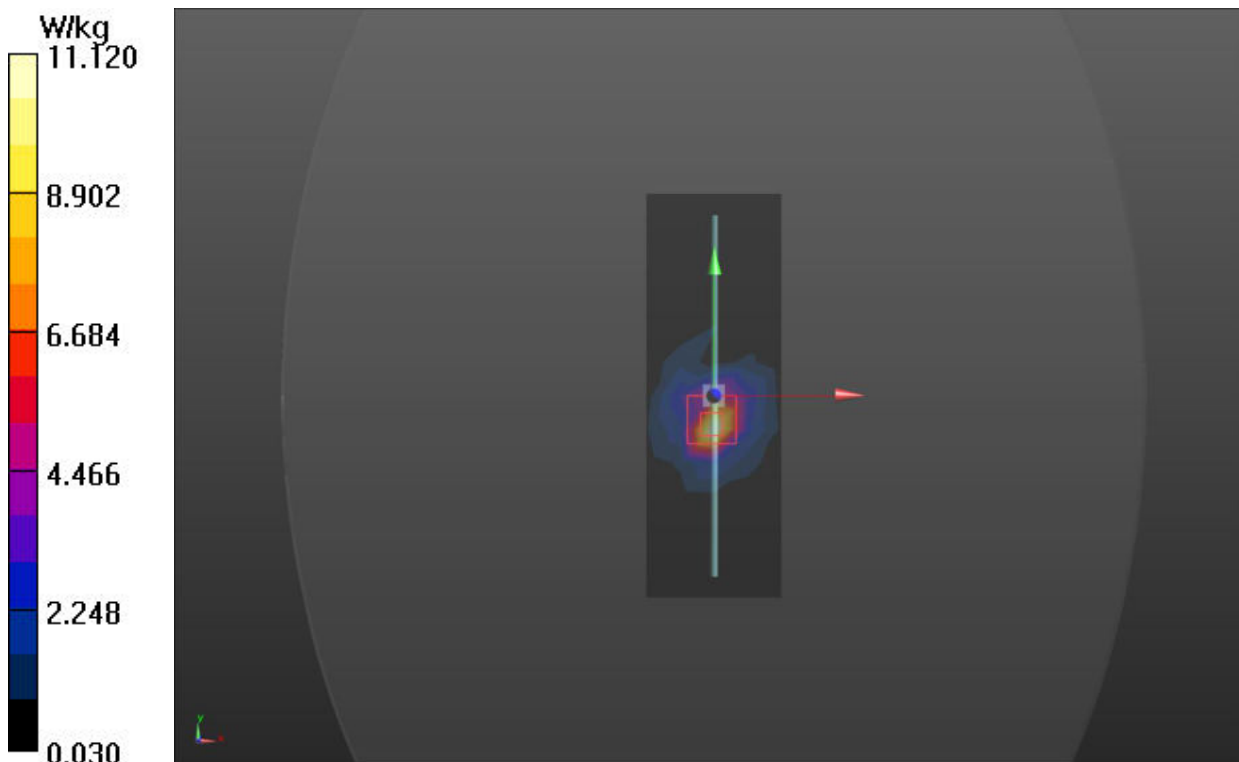
Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 9.85 W/kg; SAR(10 g) = 4.93 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 11.12 W/kg



Plot 11 System Performance Check at 1900 MHz**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2**

Date: 2/28/2025

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ S/m; $\epsilon_r = 40.0$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.86 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.368 V/m; Power Drift = 0.013 dB

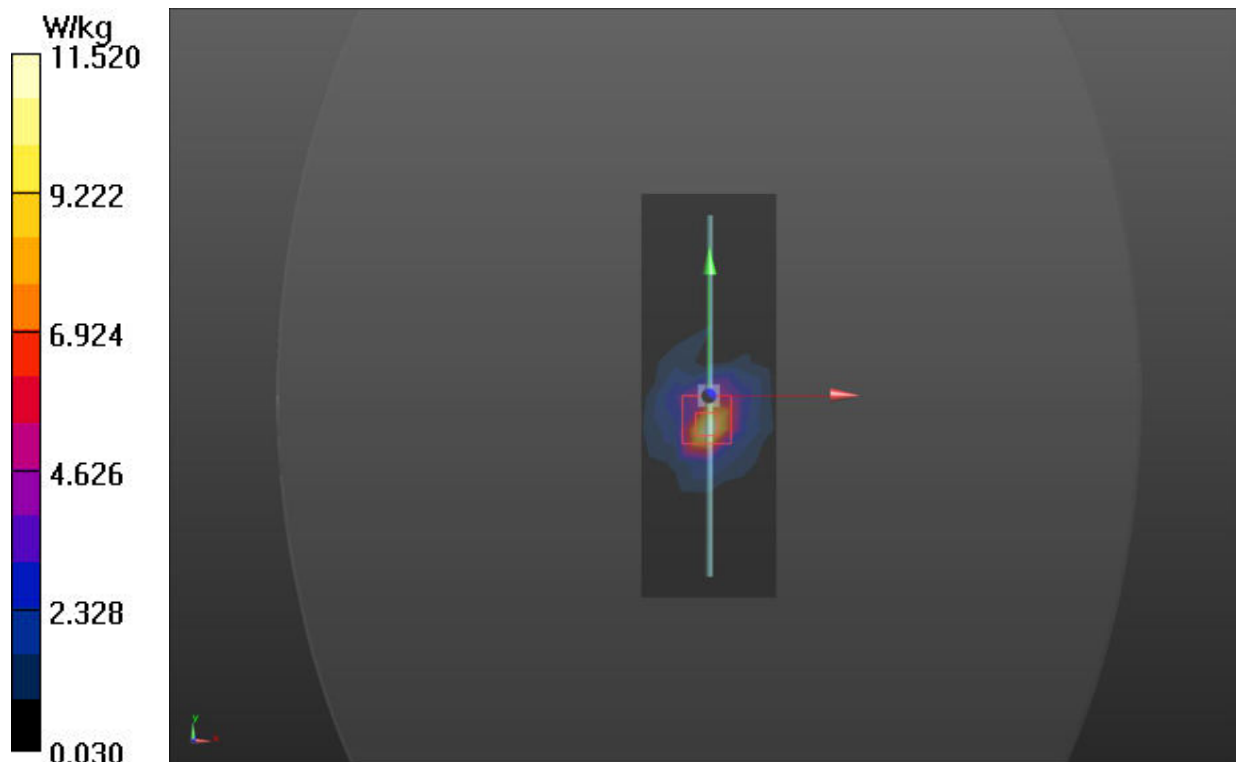
Peak SAR (extrapolated) = 20.12 W/kg

SAR(1 g) = 9.55 W/kg; SAR(10 g) = 4.99 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 11.52 W/kg



Plot 12 System Performance Check at 2450 MHz TSL

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2

Date: 2/17/2025

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.62, 8.01, 8.14); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 14.26 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.834 V/m; Power Drift = 0.015 dB

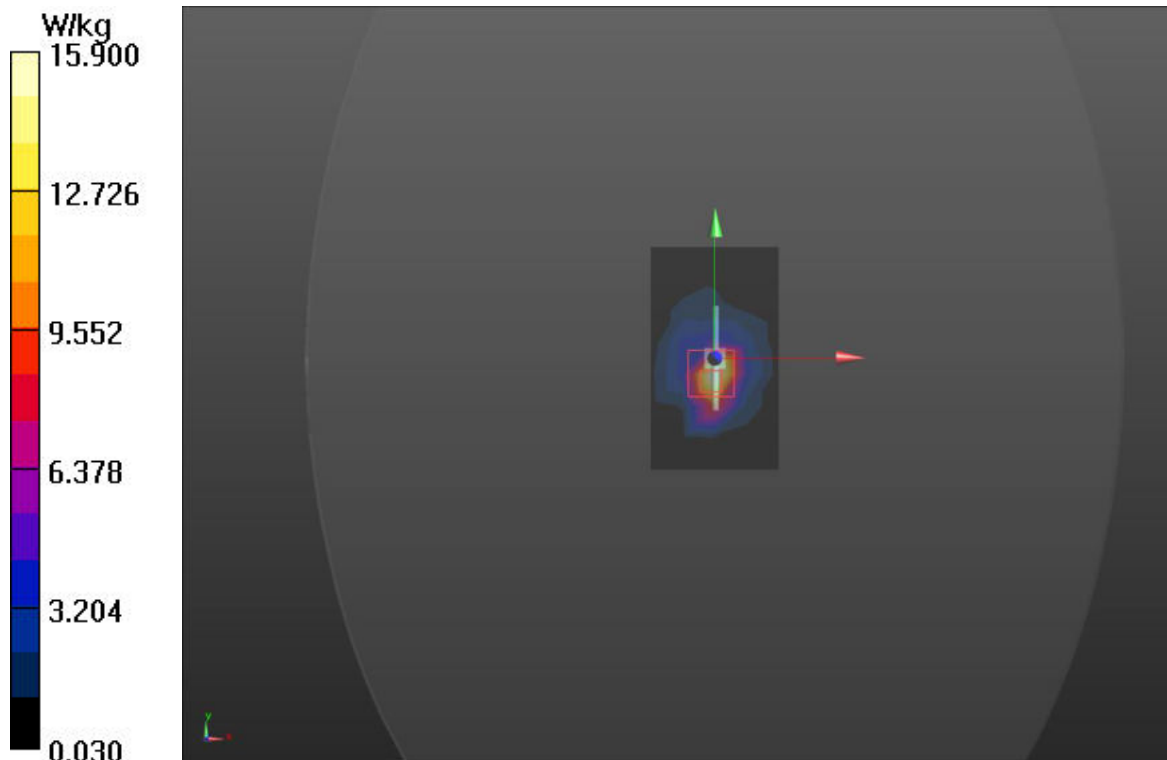
Peak SAR (extrapolated) = 30.10 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.22 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 15.90 W/kg



Plot 13 System Performance Check at 2600 MHz TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2

Date: 2/18/2025

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.01$ S/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 14.43 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.998 V/m; Power Drift = -0.04 dB

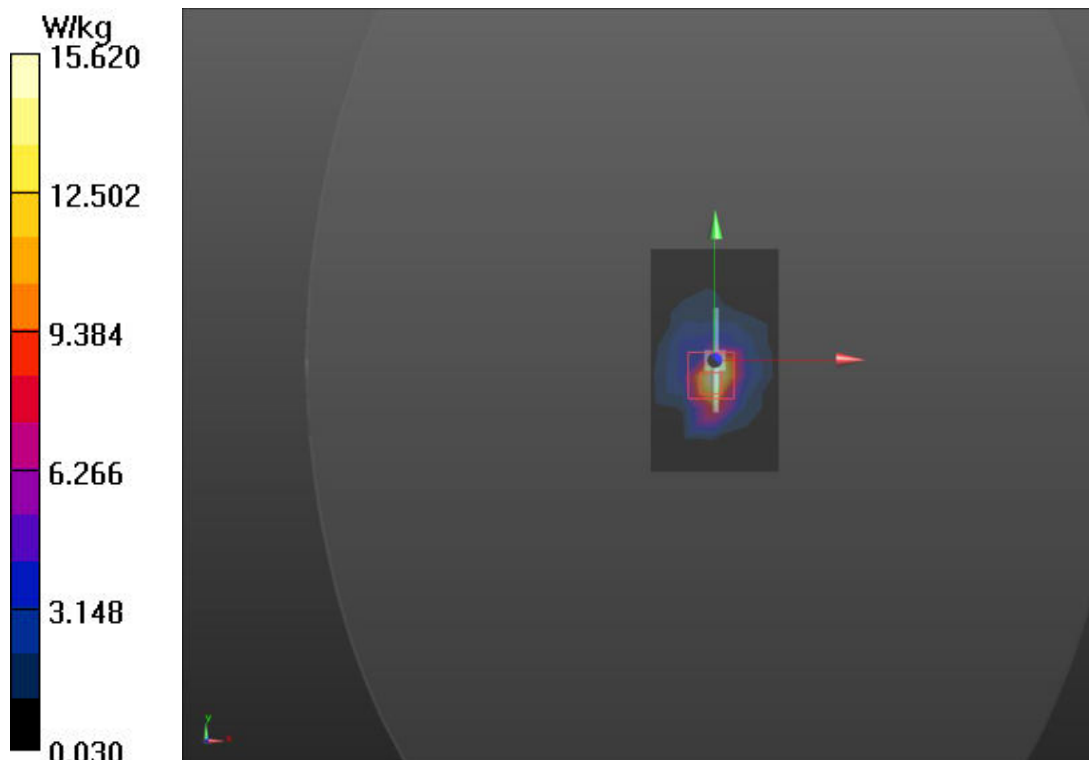
Peak SAR (extrapolated) = 31.85W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.07 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 44.2%

Maximum value of SAR (measured) = 15.62 W/kg



Plot 14 System Performance Check at 2600 MHz TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2

Date: 2/19/2025

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.94$ S/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 15.02 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.359 V/m; Power Drift = -0.015 dB

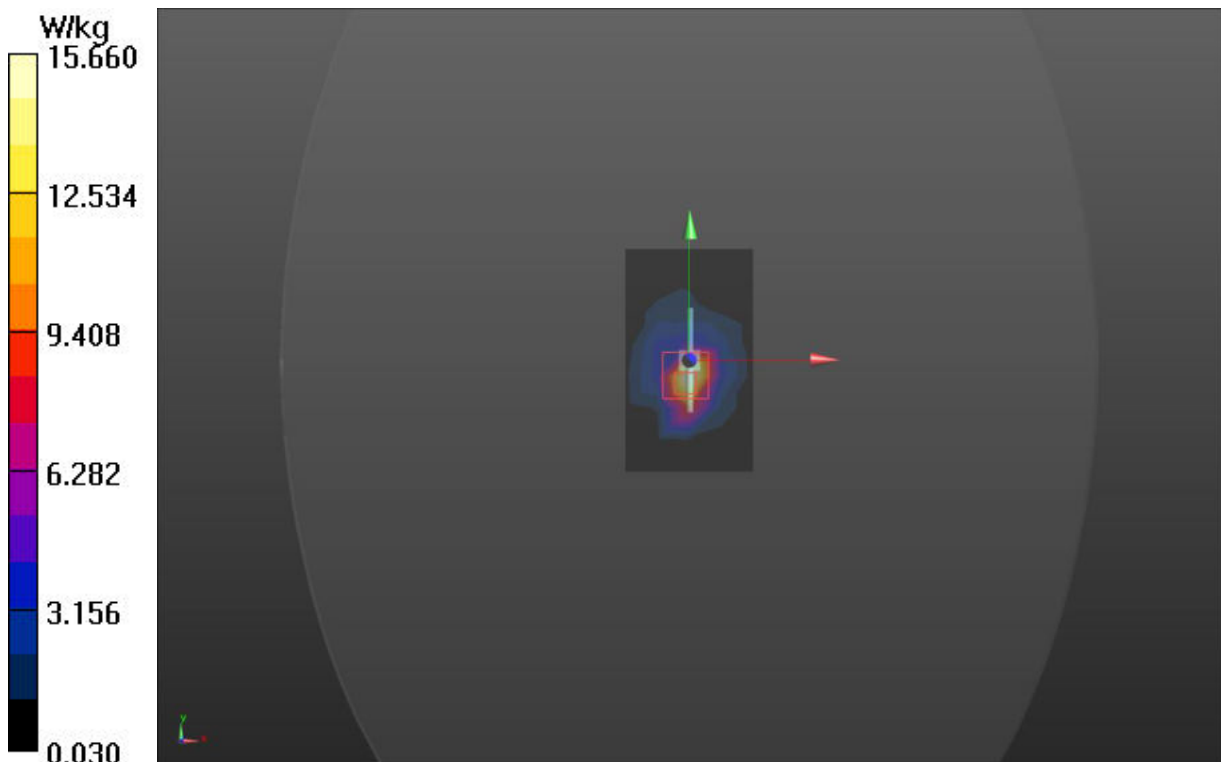
Peak SAR (extrapolated) = 30.62 W/kg

SAR(1 g) = 13.88 W/kg; SAR(10 g) = 6.09 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 15.66 W/kg



Plot 15 System Performance Check at 2600 MHz TSL**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2**

Date: 2/20/2025

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 38.3$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 14.20 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.465 V/m; Power Drift = 0.146 dB

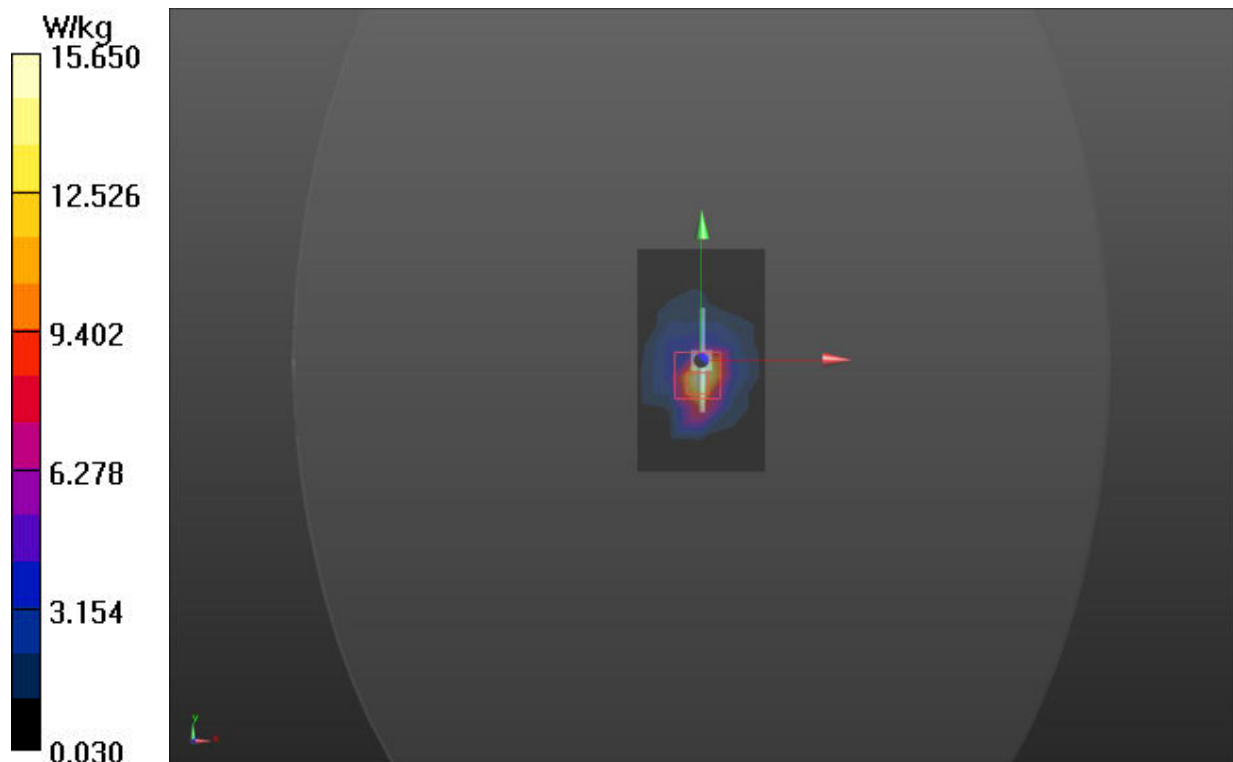
Peak SAR (extrapolated) = 31.85 W/kg

SAR(1 g) = 13.94 W/kg; SAR(10 g) = 6.11 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 47.1%

Maximum value of SAR (measured) = 15.650 W/kg



Plot 16 System Performance Check at 2600 MHz TSL

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2

Date: 3/5/2025

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.95$ S/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 15.19 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.192 V/m; Power Drift = -0.012 dB

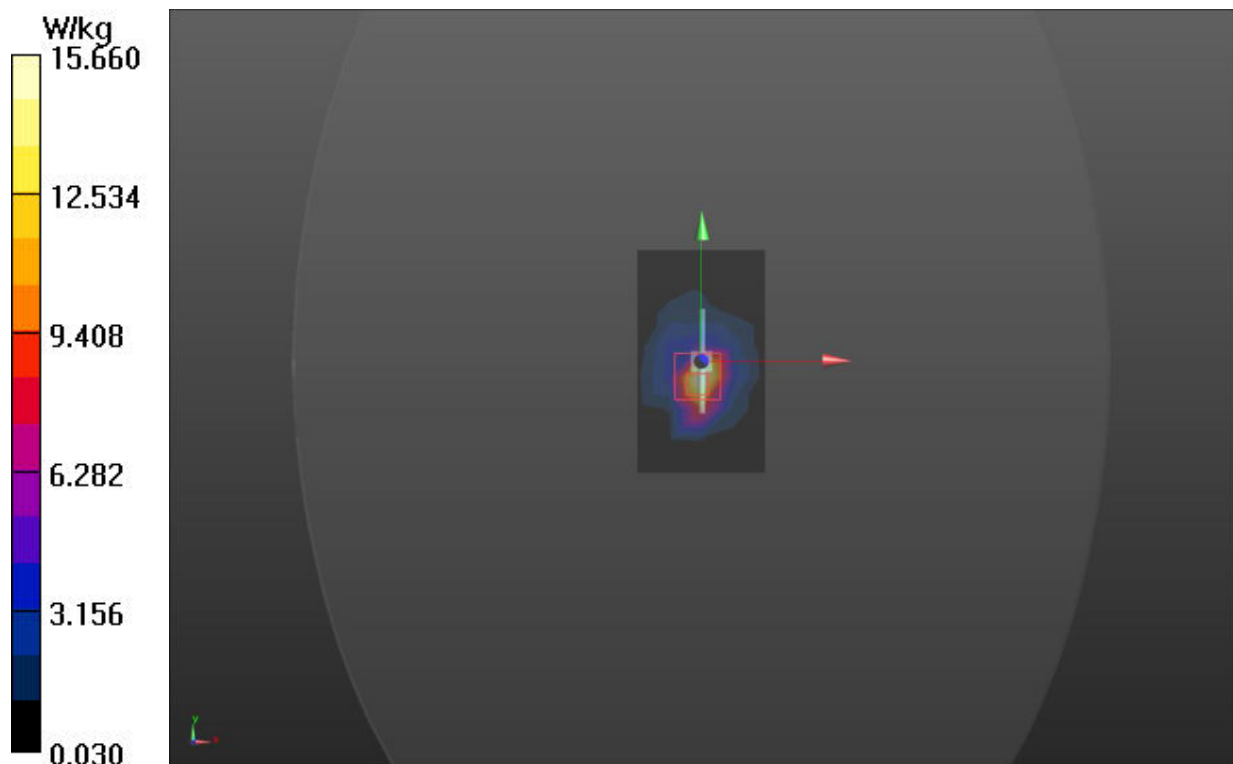
Peak SAR (extrapolated) = 29.65 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.09 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 43.5%

Maximum value of SAR (measured) = 15.66 W/kg



Plot 17 System Performance Check at 5250 MHz TSL

DUT: Dipole 5250 MHz; Type: D5GHzV2; Serial: D5GHzV2

Date: 2/19/2025

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.80$ S/m; $\epsilon_r = 35.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(5.87, 6.17, 6.27); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 9.14 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 33.654 V/m; Power Drift = -0.095 dB

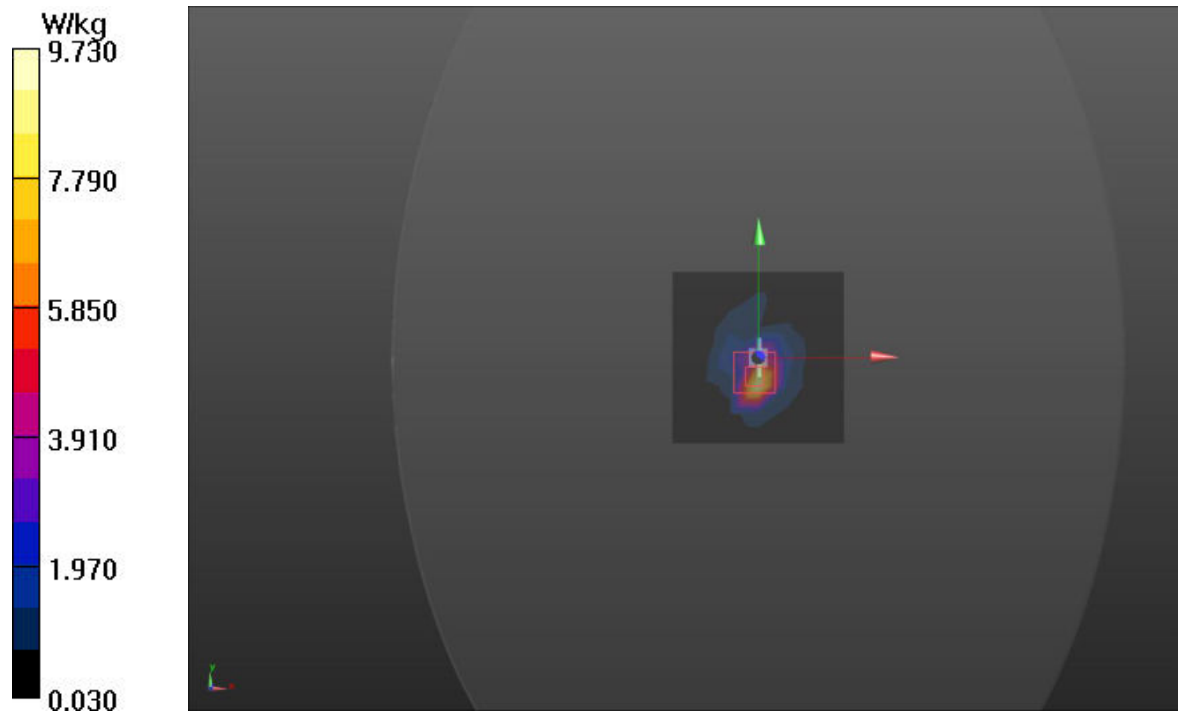
Peak SAR (extrapolated) = 52.20 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 63%

Maximum value of SAR (measured) = 9.73 W/kg



Plot 18 System Performance Check at 5600 MHz TSL**DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: D5GHzV2**

Date: 2/17/2025

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.21$ S/m; $\epsilon_r = 34.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(5.33, 5.60, 5.70); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.25 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 23.142 V/m; Power Drift = -0.028 dB

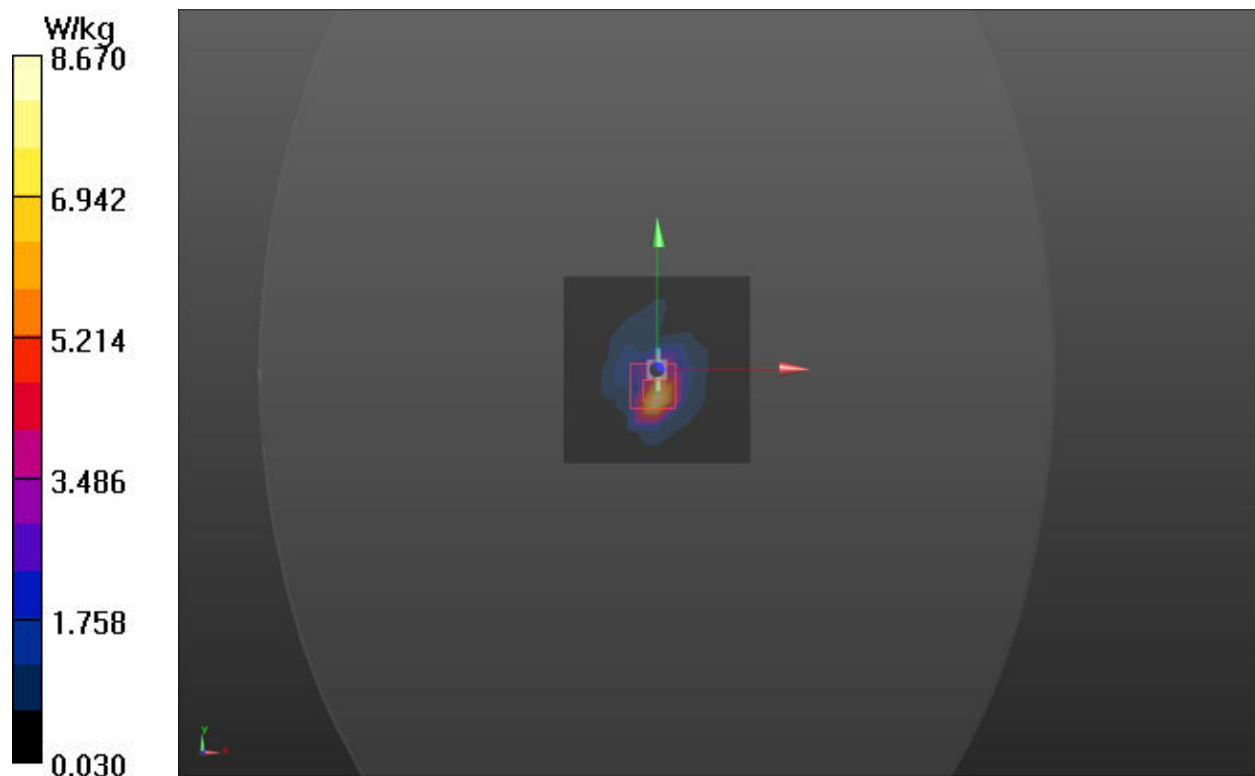
Peak SAR (extrapolated) = 22.9 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 61.9%

Maximum value of SAR (measured) = 8.67 W/kg



Plot 19 System Performance Check at 5750 MHz TSL**DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: D5GHzV2**

Date: 2/19/2025

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.21$ S/m; $\epsilon_r = 34.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(5.31, 5.59, 5.68); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=100mW/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 8.31 W/kg

d=10mm, Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 25.26 V/m; Power Drift = 0.044 dB

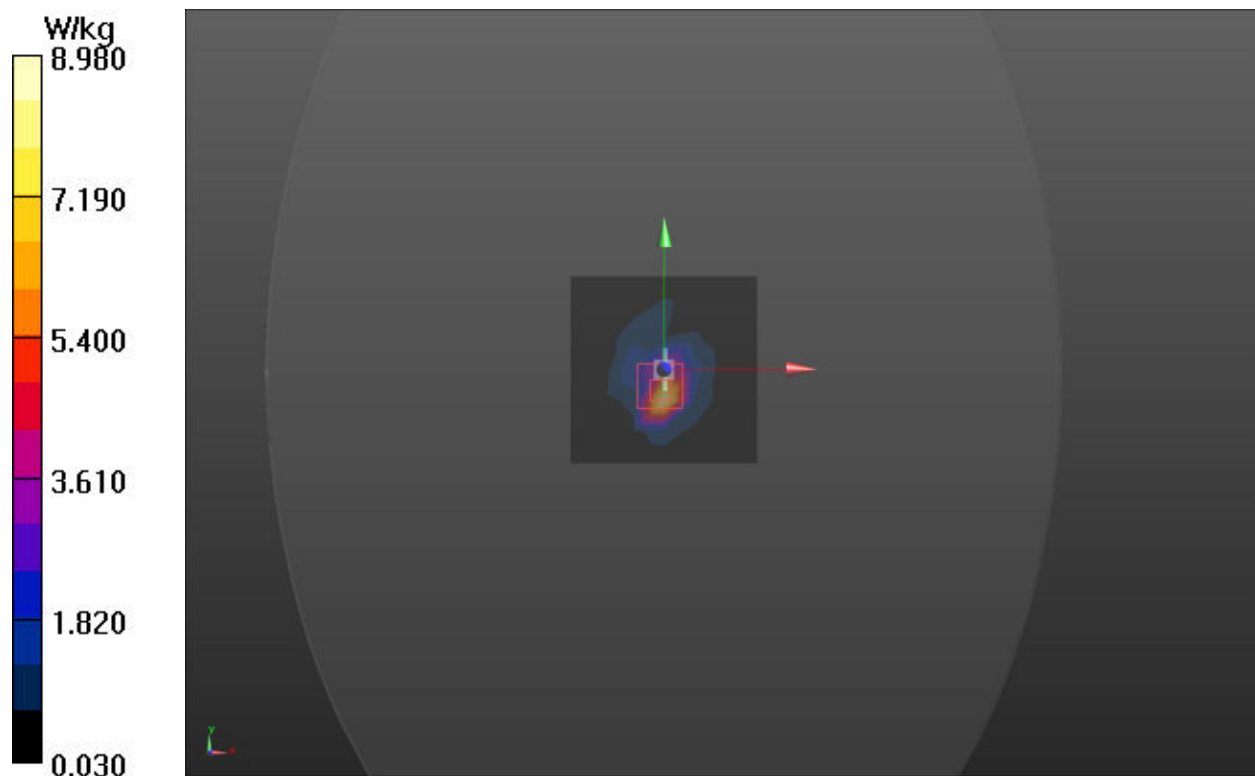
Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 8.98 W/kg



Variant

Plot 20 System Performance Check at 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2

Date: 4/25/2025

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.34$ S/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

d=10mm, Pin=250mW/Area Scan (4x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.86 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.368 V/m; Power Drift = 0.013 dB

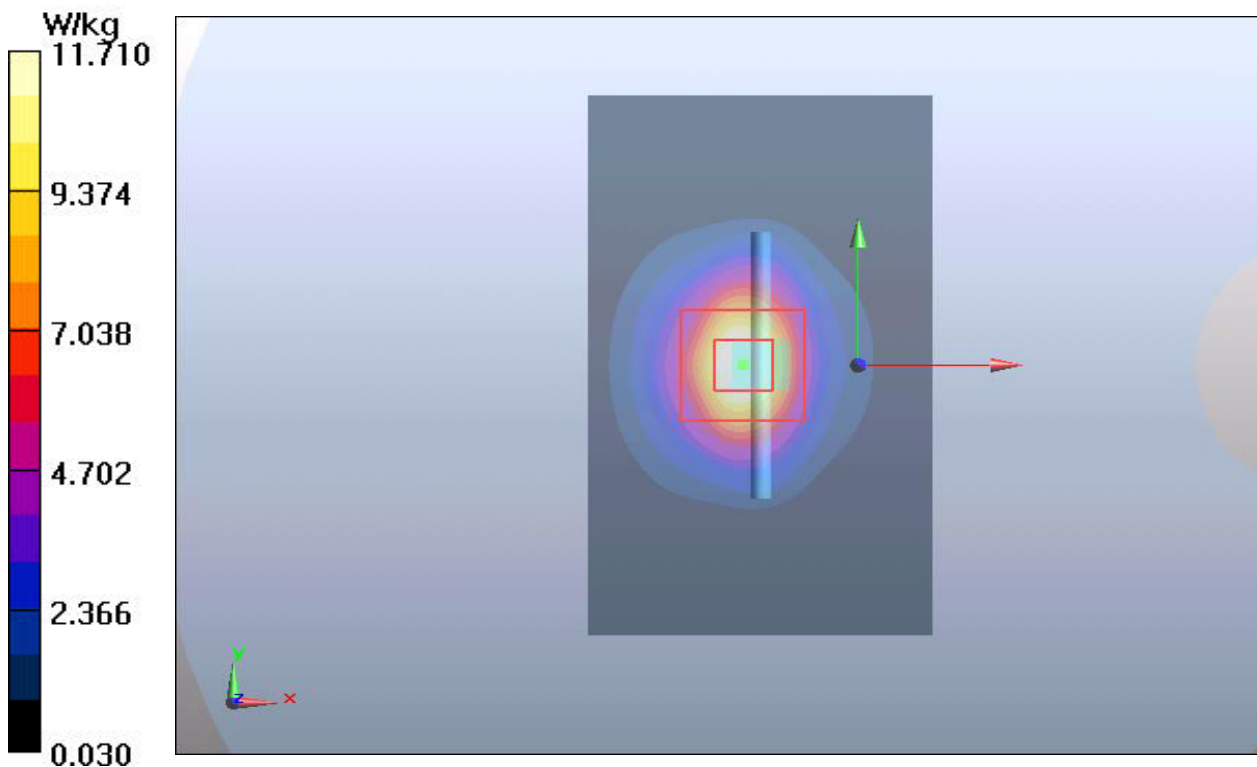
Peak SAR (extrapolated) = 20.12 W/kg

SAR(1 g) = 9.60 W/kg; SAR(10 g) = 4.98 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3mm

Ratio of SAR at M2 to SAR at M1 = 54.5%

Maximum value of SAR (measured) = 11.71 W/kg



ANNEX C: Highest Graph Results

Plot 21 GSM 850 GPRS(4TX) Back Side 0mm Mid

Date: 2/13/2025

Communication System: UID 0, GPRS 4TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:2.07

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 850 GPRS(4TX) Back Side 0mm/Mid/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.14 W/kg

GSM 850 GPRS(4TX) Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.18 V/m; Power Drift = -0.05 dB

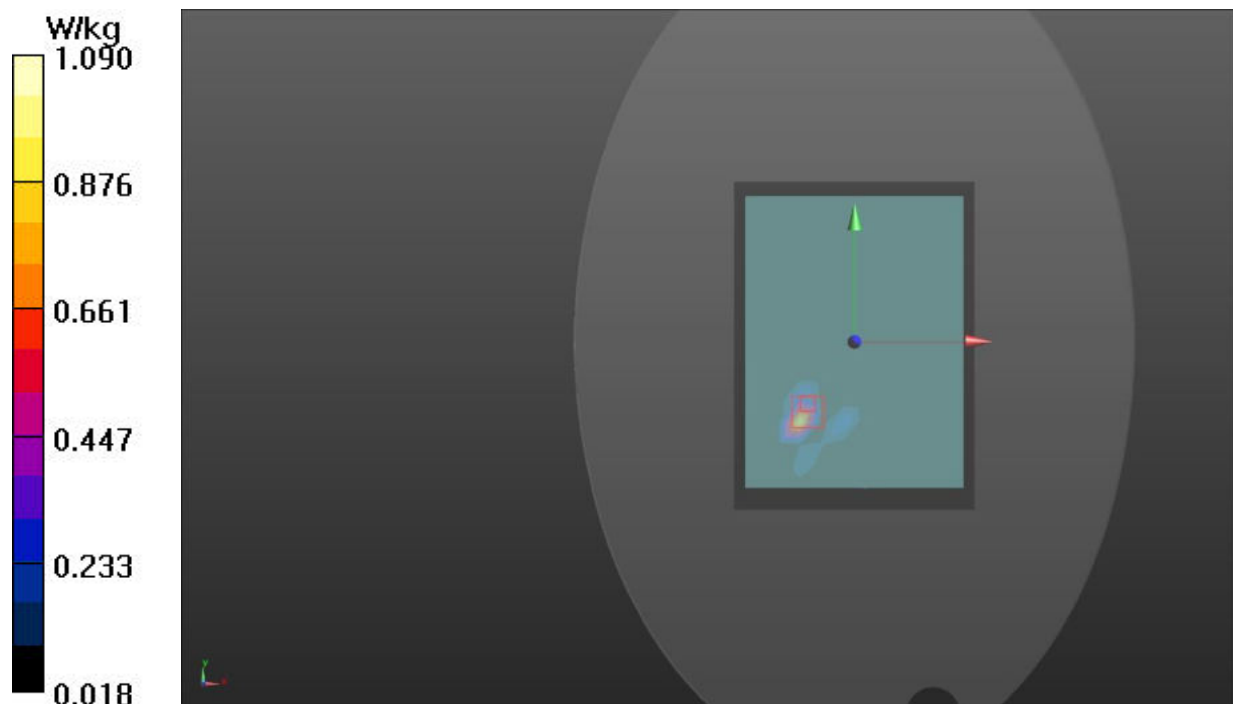
Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 0.961 W/kg; SAR(10 g) = 0.508 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 1.09 W/kg



Plot 22 GSM 1900 GPRS(4TX) Back Side 0mm Mid

Date: 2/15/2025

Communication System: UID 0, GPRS 4TX (0); Frequency: 1880 MHz; Duty Cycle: 1:2.07

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 38.43$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 1900 GPRS(4TX) Back Side 0mm/Mid/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.859 W/kg

GSM 1900 GPRS(4TX) Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.323 V/m; Power Drift = -0.06 dB

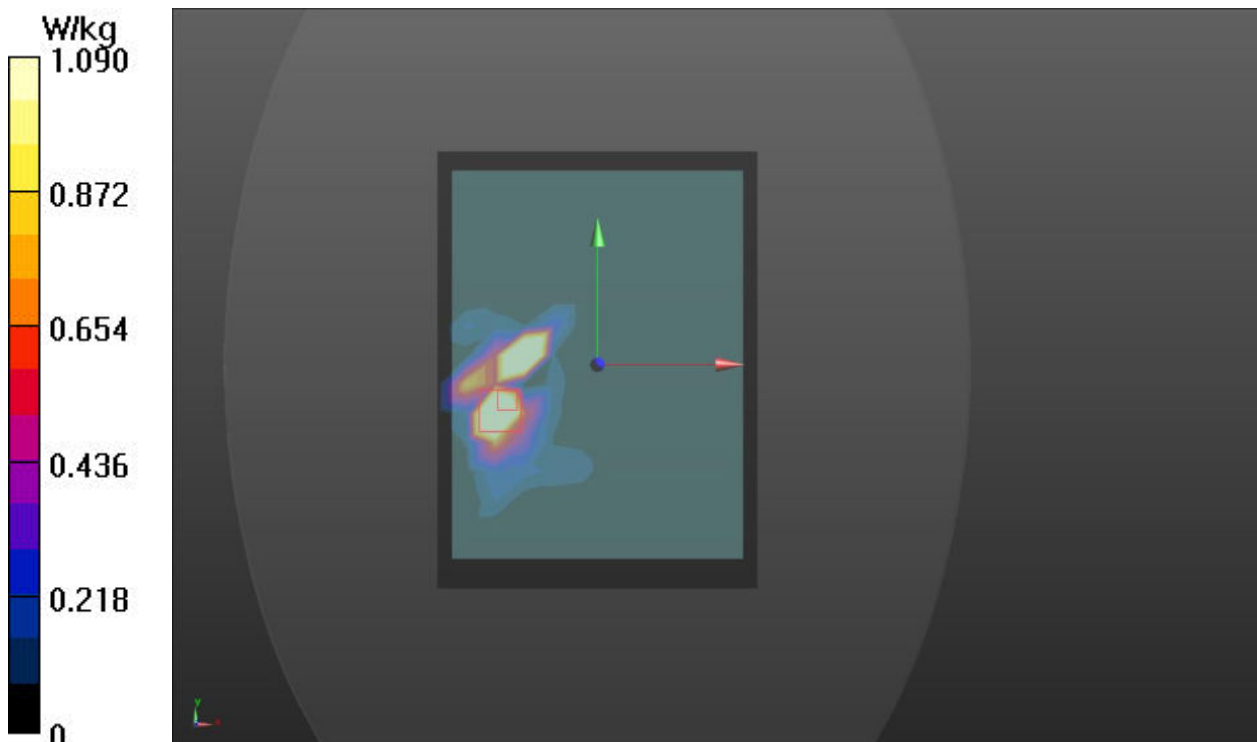
Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.914 W/kg; SAR(10 g) = 0.323 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 43.2%

Maximum value of SAR (measured) = 1.09 W/kg



Plot 23 WCDMA B2 Back Side 0mm Low

Date: 2/15/2025

Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 38.598$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA B2 Back Side 0mm/Low/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.860 W/kg

WCDMA B2 Back Side 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 7.869 V/m; Power Drift = -0.050 dB

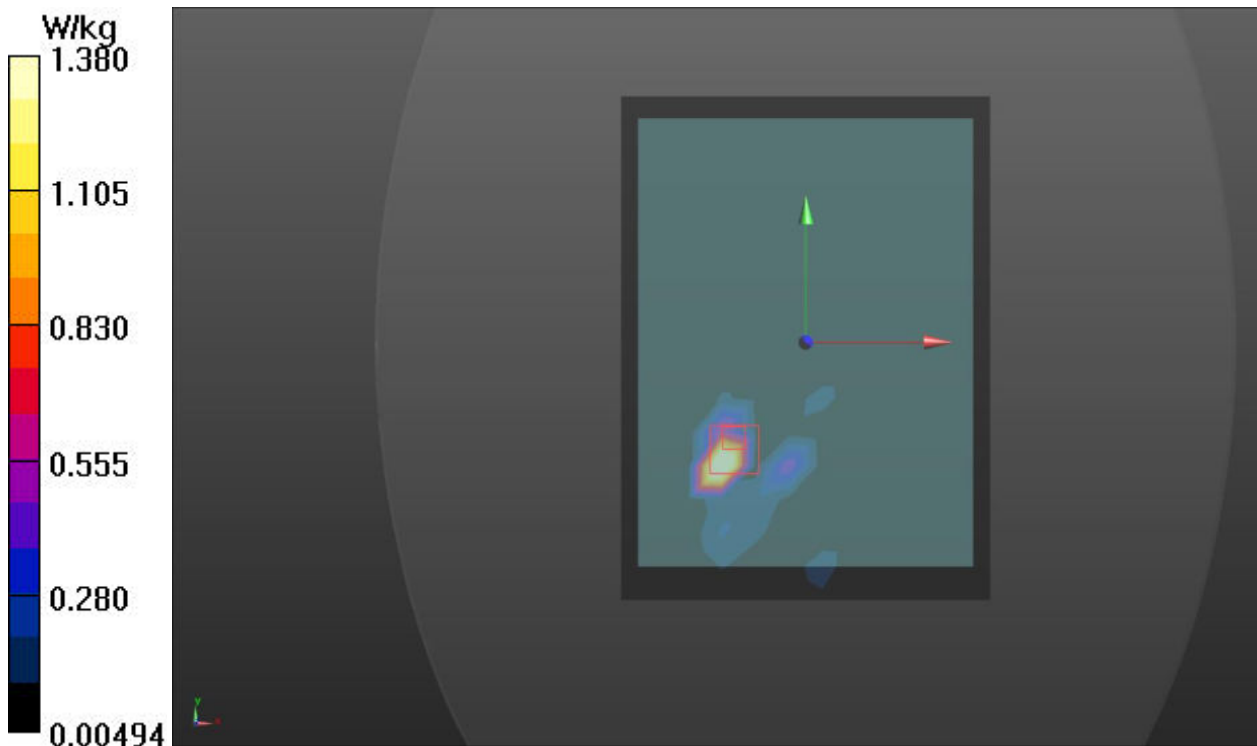
Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.480 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 41.3%

Maximum value of SAR (measured) = 1.38 W/kg



Plot 24 WCDMA B4 Back Side 0mm Mid

Date: 2/14/2025

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.283$ S/m; $\epsilon_r = 38.91$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA B4 Back Side 0mm/Mid/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.731 W/kg

WCDMA B4 Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 8.203 V/m; Power Drift = 0.019 dB

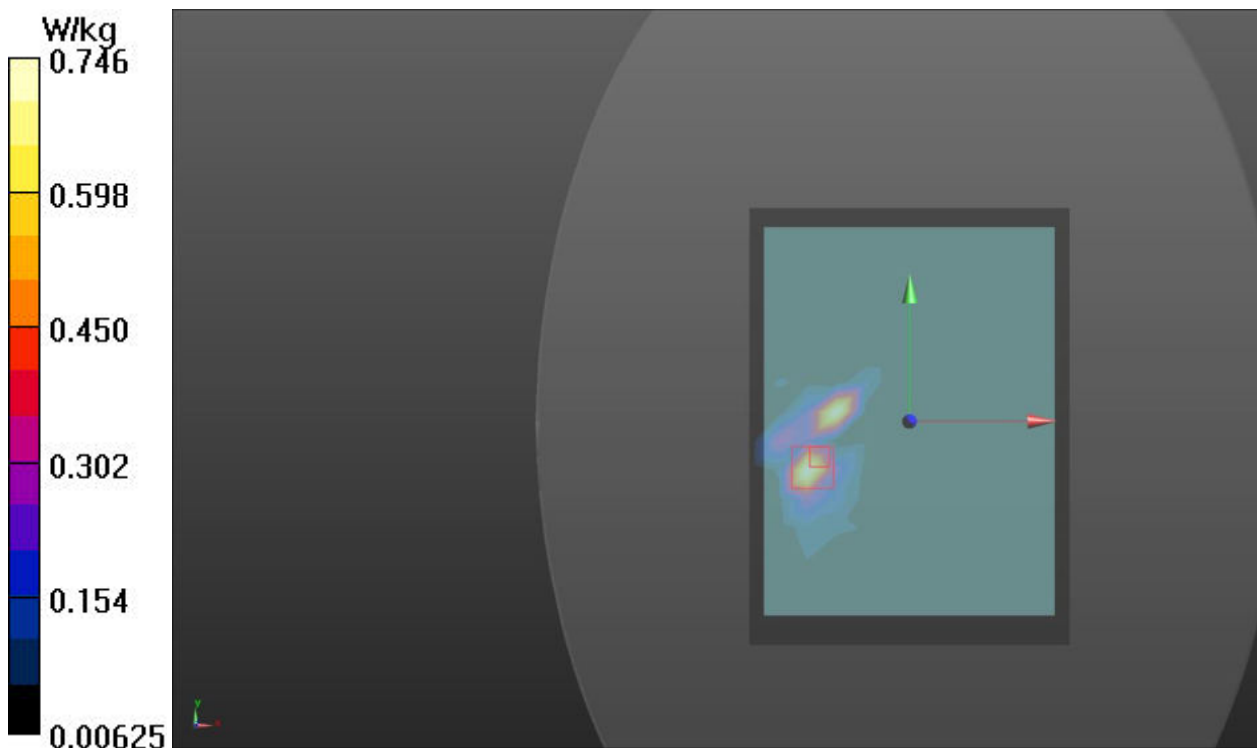
Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.341 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

Maximum value of SAR (measured) = 0.746 W/kg



Plot 25 WCDMA B5 Back Side 0mm Low

Date: 2/13/2025

Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 42.355$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA B5 Back Side 0mm/Low/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.841 W/kg

WCDMA B5 Back Side 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 23.53 V/m; Power Drift = -0.040 dB

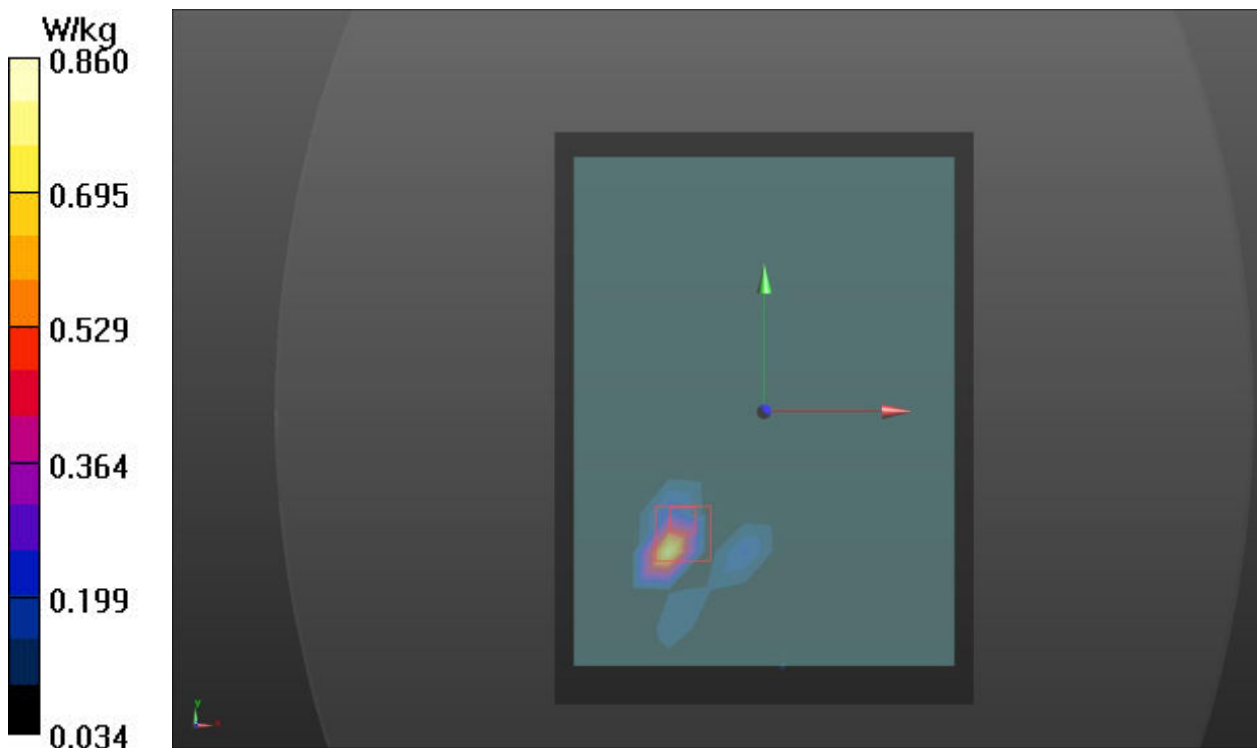
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.446 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 0.860 W/kg



Plot 26 LTE B2 50% Back Side 0mm Low

Date: 2/28/2025

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 38.557$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B2 50% Back Side 0mm/Low/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.17 W/kg

LTE B2 50% Back Side 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 7.630 V/m; Power Drift = -0.080 dB

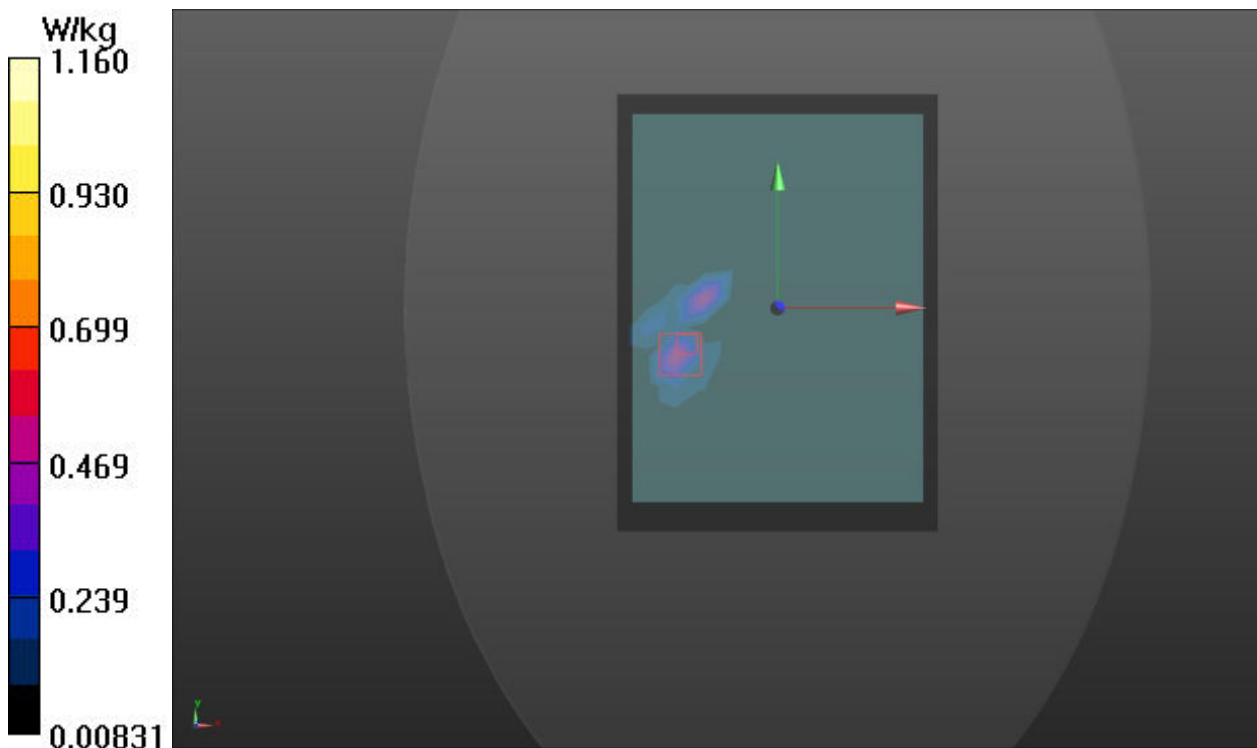
Peak SAR (extrapolated) = 2.72 W/kg

SAR(1 g) = 1.070 W/kg; SAR(10 g) = 0.446 W/kg

Smallest distance from peaks to all points 3 dB below = 18 mm

Ratio of SAR at M2 to SAR at M1 = 46.7%

Maximum value of SAR (measured) = 1.16 W/kg



Plot 27 LTE B5 50%RB Back Side 0mm Low

Date: 2/28/2025

Communication System: UID 0, LTE (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 829$ MHz; $\sigma = 0.945$ S/m; $\epsilon_r = 42.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B5 50%RB Back Side 0mm/Low/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.797 W/kg

LTE B5 50%RB Back Side 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.01 V/m; Power Drift = -0.020 dB

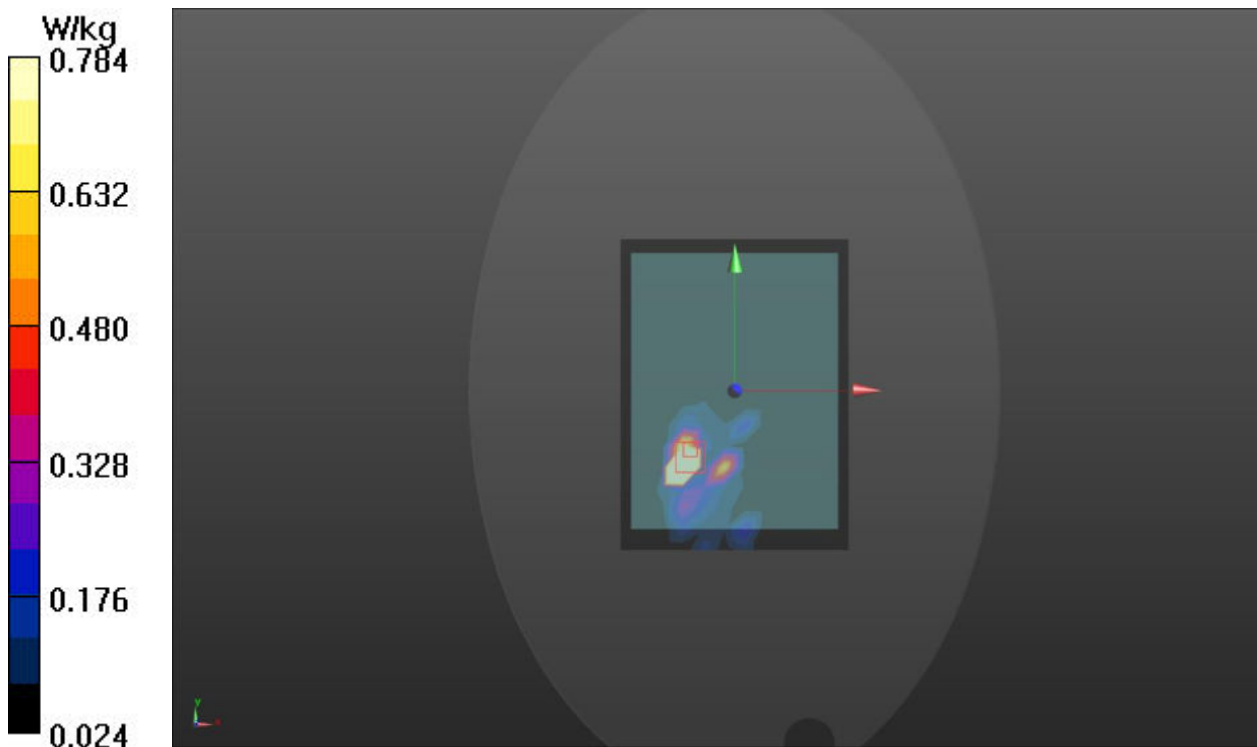
Peak SAR (extrapolated) = 1.568 W/kg

SAR(1 g) = 0.756 W/kg; SAR(10 g) = 0.412 W/kg

Smallest distance from peaks to all points 3 dB below = 18.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 0.784 W/kg



Plot 28 LTE B7 50%RB Back Side 0mm Mid

Date: 2/19/2025

Communication System: UID 0, LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 40.565$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B7 50%RB Back Side 0mm/Mid/Area Scan (12x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.898 W/kg

LTE B7 50%RB Back Side 0mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.518 V/m; Power Drift = 0.022 dB

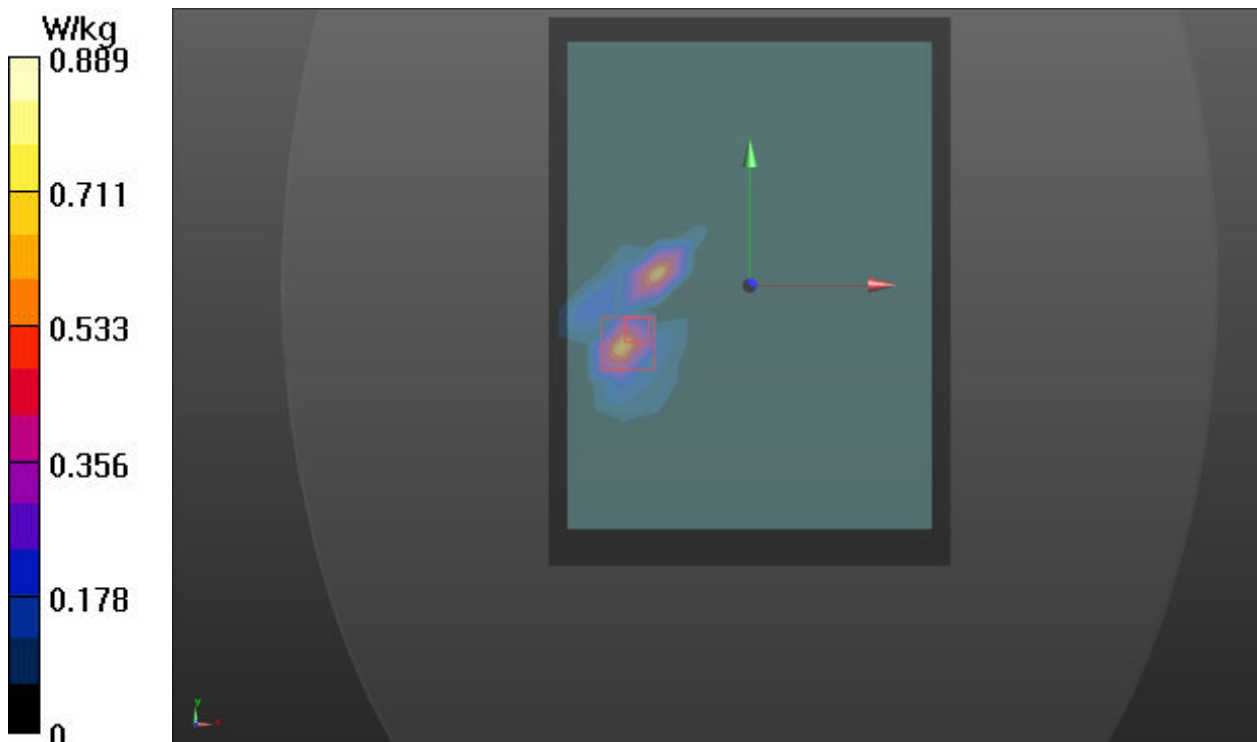
Peak SAR (extrapolated) = 1.778 W/kg

SAR(1 g) = 0.879 W/kg; SAR(10 g) = 0.327 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 0.889 W/kg



Plot 29 LTE B12 100%RB Back Side Repeat 0mm Low

Date: 2/27/2025

Communication System: UID 0, LTE (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 704$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.223$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B12 100%RB Back Side Repeat 0mm/Low/Area Scan (9x13x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.16 W/kg

LTE B12 100%RB Back Side Repeat 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.99 V/m; Power Drift = -0.070 dB

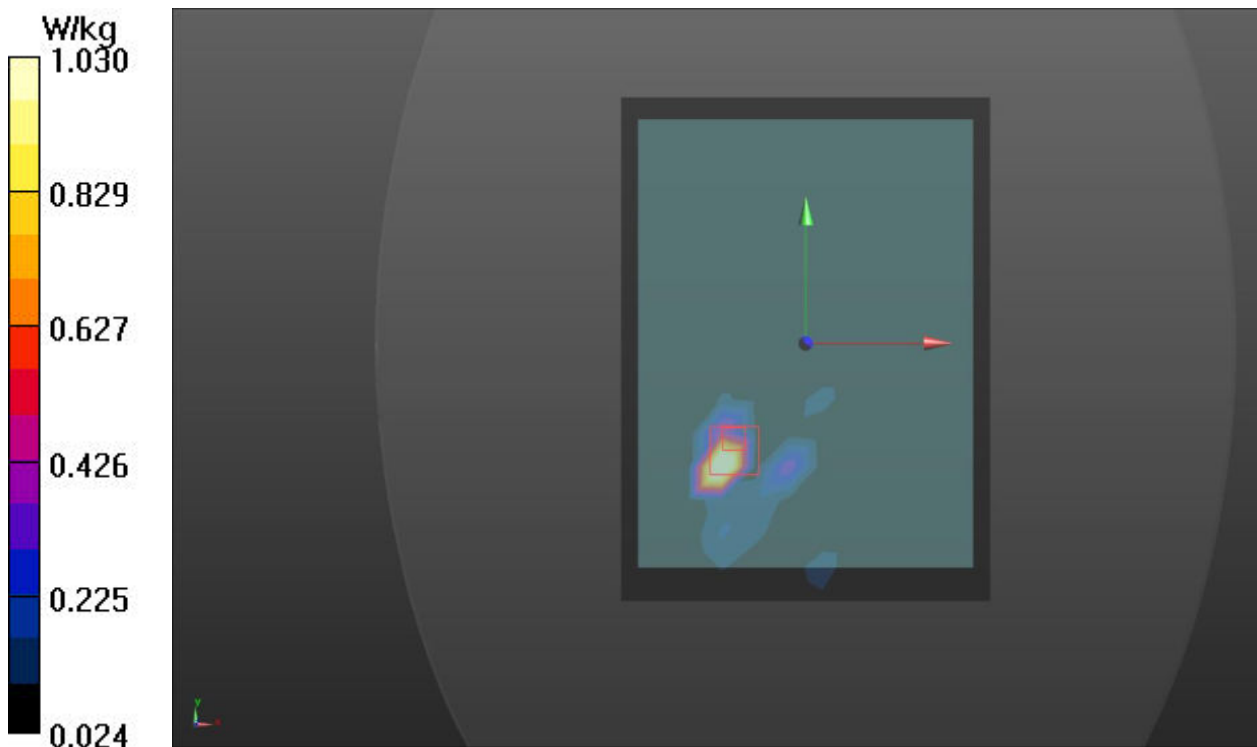
Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 1.020 W/kg; SAR(10 g) = 0.518 W/kg

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 1.03 W/kg



Plot 30 LTE B26 50%RB Back Side 0mm

Date: 2/24/2025

Communication System: UID 0, LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 42.386$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.44, 9.92, 10.09); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B26 50%RB Back Side 0mm/Low/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.815 W/kg

LTE B26 50%RB Back Side 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.01 V/m; Power Drift = 0.05 dB

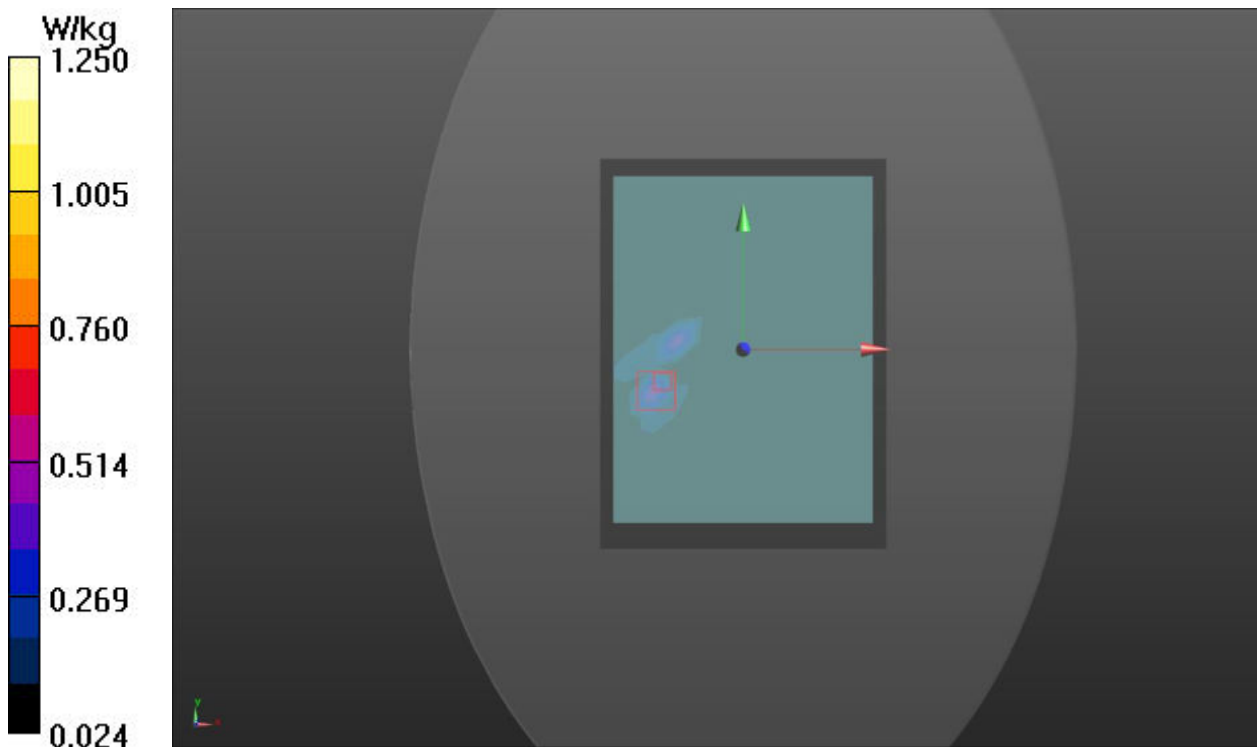
Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.435 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 1.250 W/kg



Plot 31 LTE B41 50%RB Back Side 0mm

Date: 3/5/2025

Communication System: UID 0, LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2550$ MHz; $\sigma = 1.898$ S/m; $\epsilon_r = 40.426$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B41 50%RB Back Side 0mm/Mid/Area Scan (12x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.942 W/kg

LTE B41 50%RB Back Side 0mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.092 V/m; Power Drift = 0.031 dB

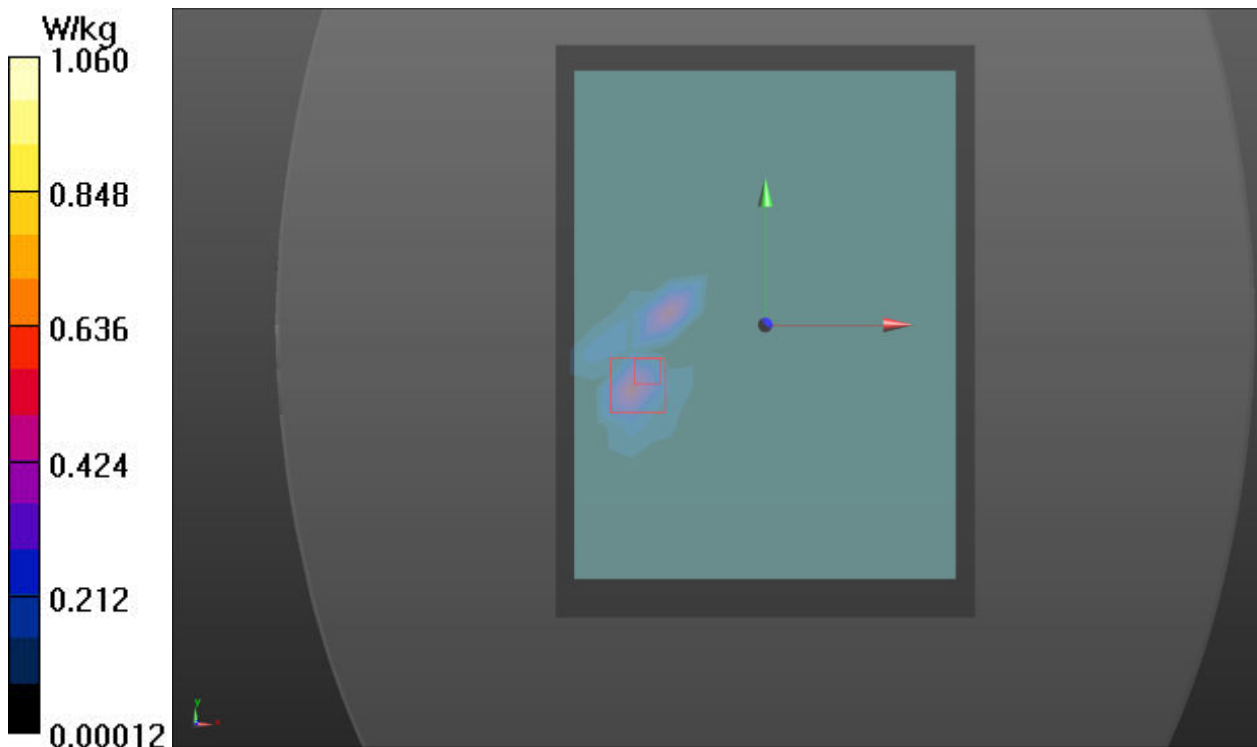
Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.968 W/kg; SAR(10 g) = 0.341 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 36%

Maximum value of SAR (measured) = 1.06 W/kg



Plot 32 LTE B41 PC2 50%RB Back Side 0mm

Date: 2/19/2025

Communication System: UID 0, LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2550$ MHz; $\sigma = 1.898$ S/m; $\epsilon_r = 40.426$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B41 50%RB Back Side 0mm/Mid/Area Scan (12x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.655 W/kg

LTE B41 50%RB Back Side 0mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.790 V/m; Power Drift = 0.062 dB

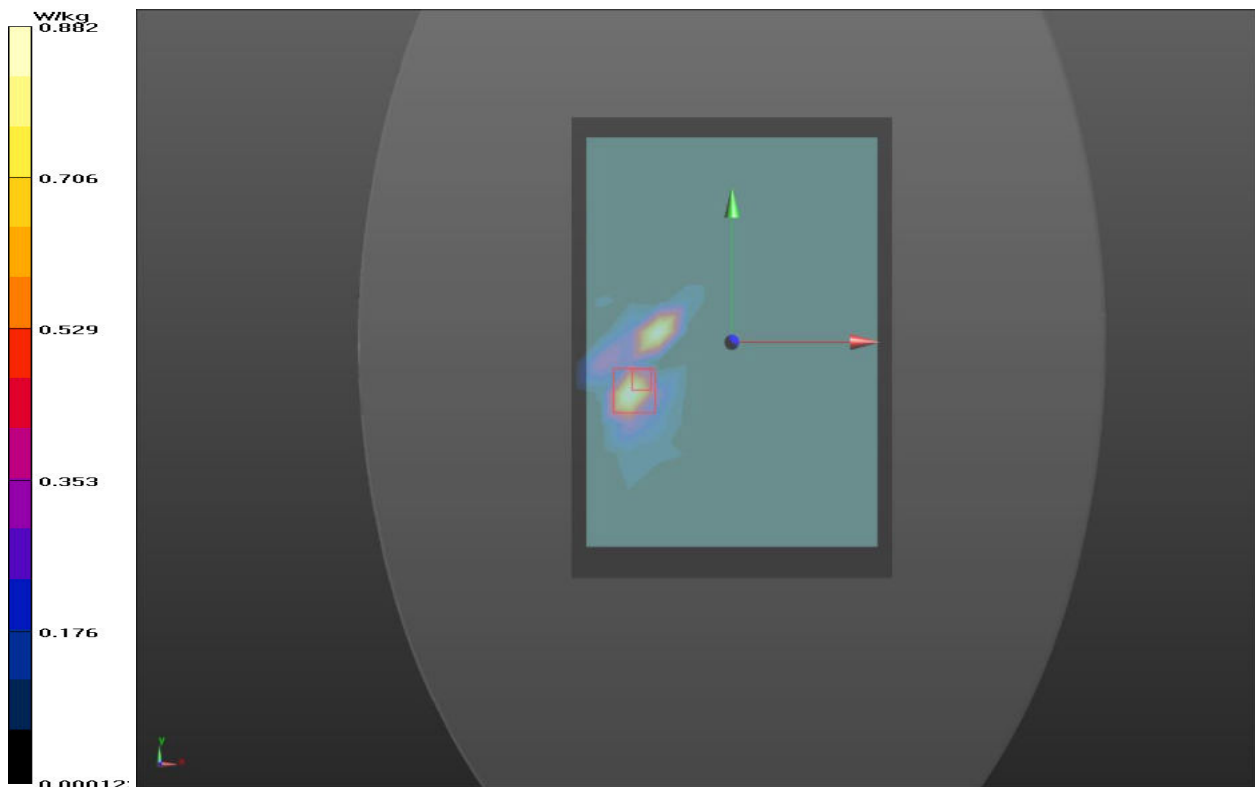
Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.325 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 39.5%

Maximum value of SAR (measured) = 0.882 W/kg



Plot 33 LTE B66 1RB Back Side 0mm

Date: 2/21/2025

Communication System: UID 0, LTE (0); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.299$ S/m; $\epsilon_r = 38.874$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B66 1RB Back Side 0mm/High/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.847 W/kg

LTE B66 1RB Back Side 0mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.366 V/m; Power Drift = -0.010 dB

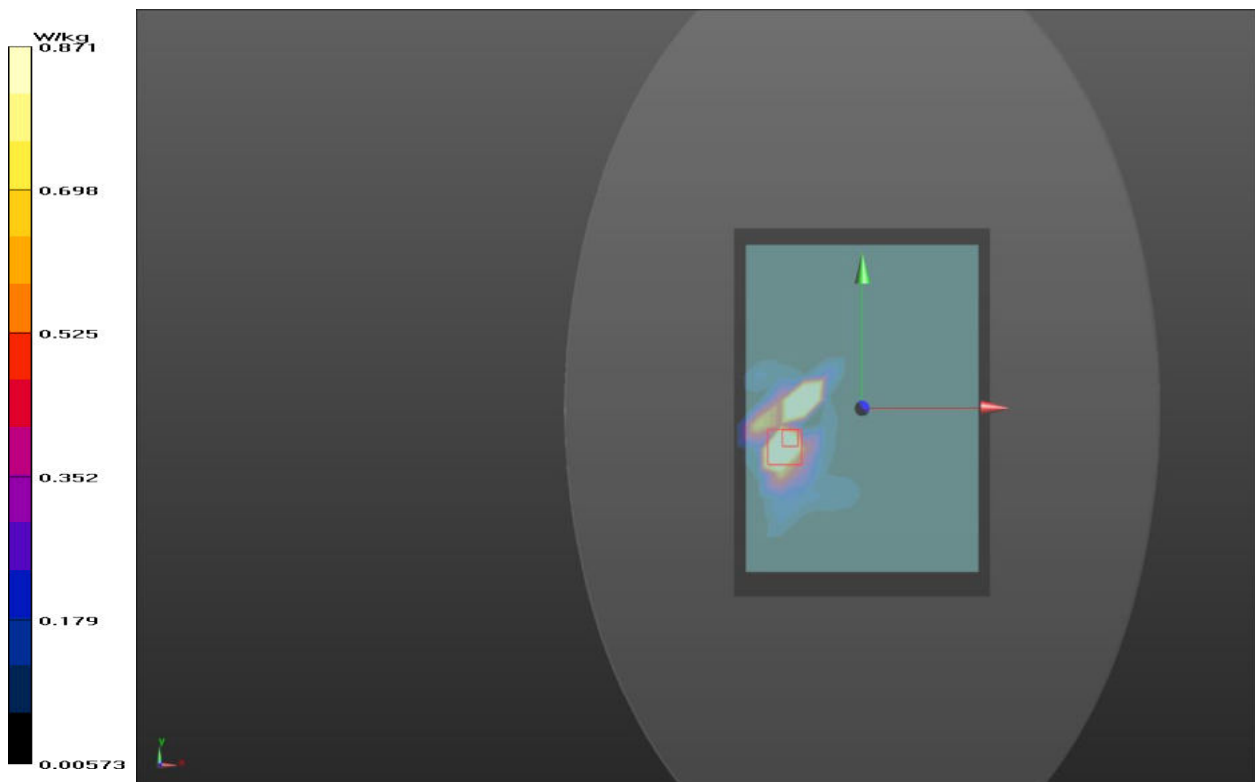
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.342 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 46.5%

Maximum value of SAR (measured) = 0.871 W/kg



Plot 34 LTE B71 1RB Back Side 0mm

Date: 2/26/2025

Communication System: UID 0, LTE (0); Frequency: 673 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 673 \text{ MHz}$; $\sigma = 0.852 \text{ S/m}$; $\epsilon_r = 43.234$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE B71 1RB Back Side 0mm/Low/Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.644 W/kg

LTE B71 1RB Back Side 0mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.05 V/m ; Power Drift = -0.051 dB

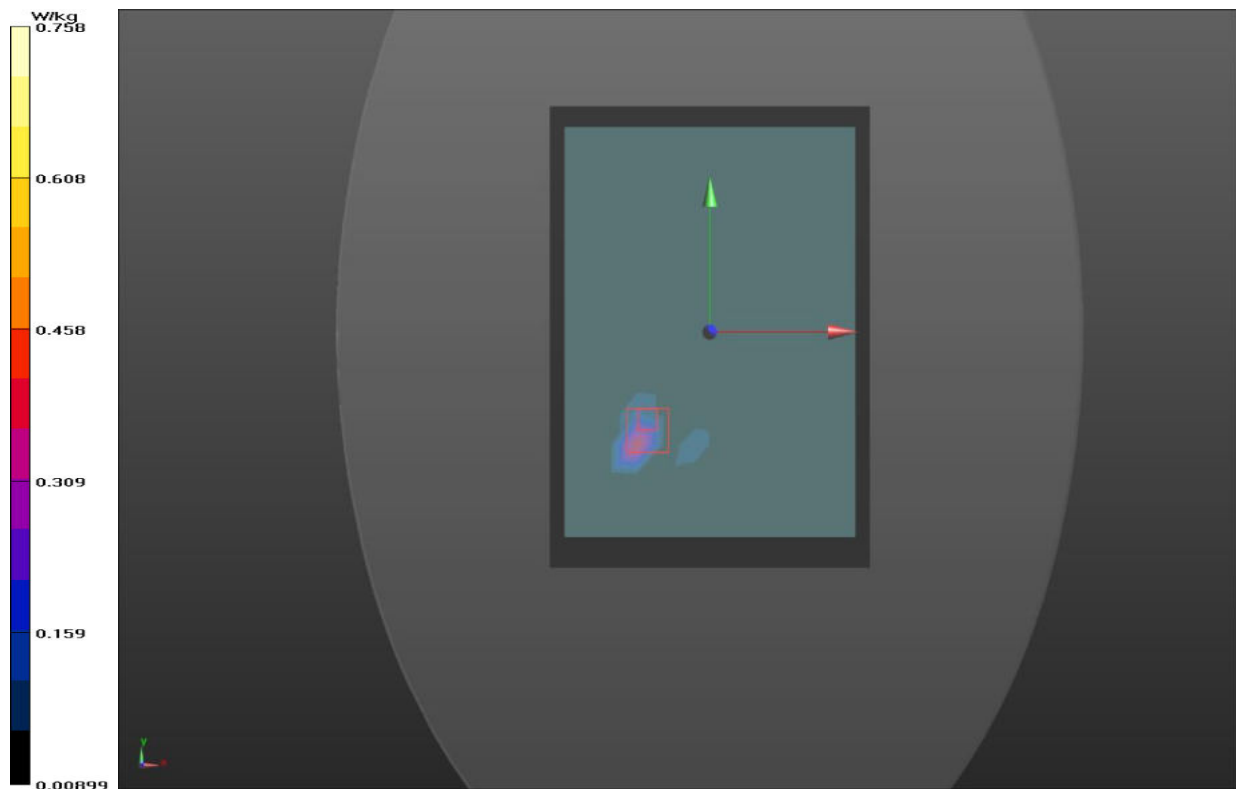
Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.642 W/kg ; SAR(10 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 42.2%

Maximum value of SAR (measured) = 0.758 W/kg



Plot 35 NR n25 1RB Back Side 0mm High

Date: 2/22/2025

Communication System: UID 0, 5G NR (0); Frequency: 1895 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1895$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 38.377$; $\rho = 1000$ kg/m³

Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.88, 8.28, 8.42); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n25 1RB Back Side 0mm/High/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.42 W/kg

NR n25 1RB Back Side 0mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 13.57 V/m; Power Drift = 0.090 dB

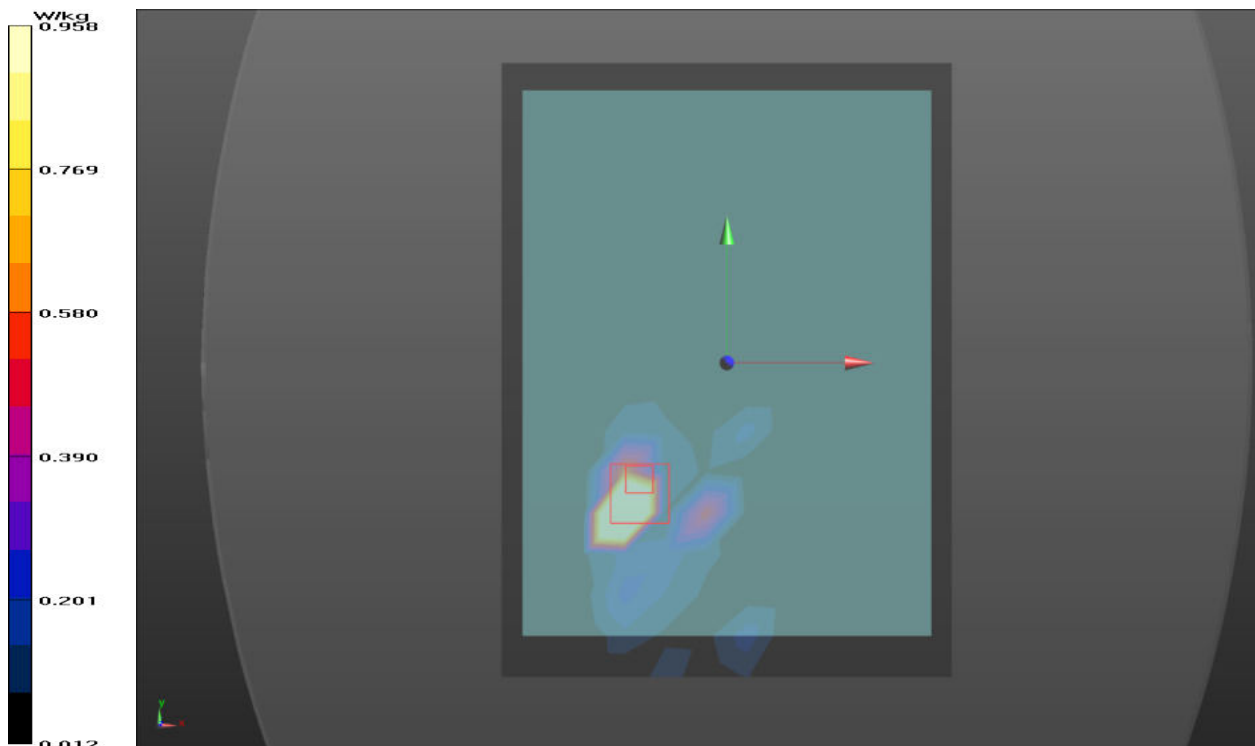
Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.402 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 0.958 W/kg



Plot 36 NR n41 50%RB Back Side 0mm High

Date: 2/18/2025

Communication System: UID 0, 5G NR (0); Frequency: 2640 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2640$ MHz; $\sigma = 2.006$ S/m; $\epsilon_r = 40.077$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.39, 7.77, 7.89); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n41 50%RB Back Side 0mm/High/Area Scan (12x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.636 W/kg

NR n41 50%RB Back Side 0mm/High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.080 V/m; Power Drift = -0.064 dB

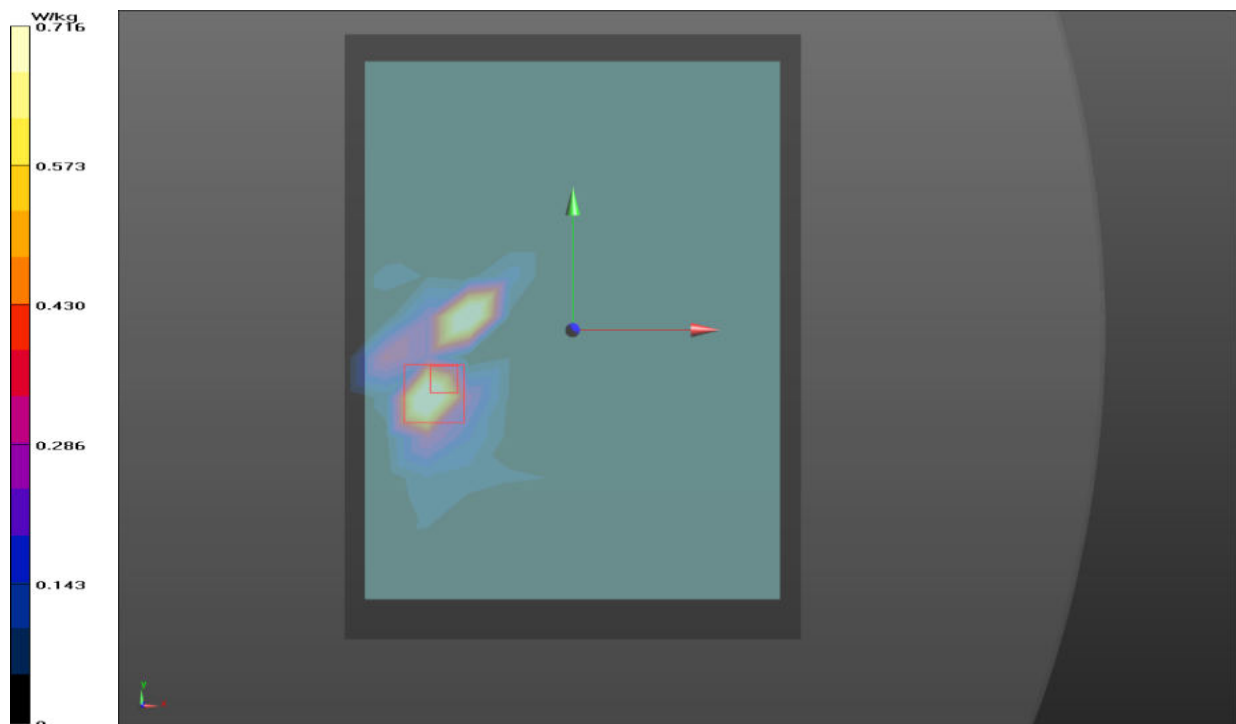
Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.632 W/kg; SAR(10 g) = 0.224 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 38.2%

Maximum value of SAR (measured) = 0.716 W/kg



Plot 37 NR n66 1RB Back Side 0mm Mid

Date: 2/18/2025

Communication System: UID 0, 5G NR (0); Frequency: 1760 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1760$ MHz; $\sigma = 1.29$ S/m; $\epsilon_r = 38.897$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(8.01, 8.42, 8.56); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n66 1RB Back Side 0mm/Mid/Area Scan (9x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.21 W/kg

NR n66 1RB Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 18.40 V/m; Power Drift = -0.070 dB

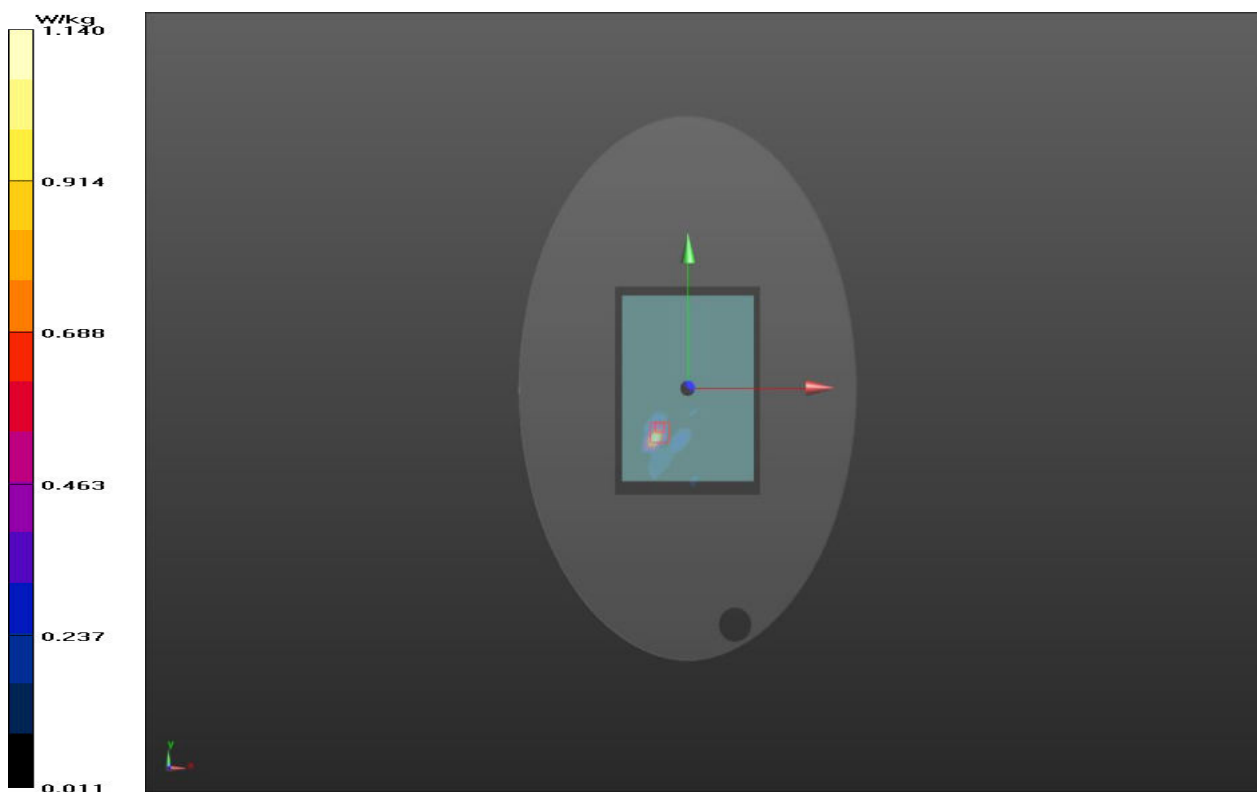
Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.487 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 1.14 W/kg



Plot 38 NR n71 50%RB Back Side 0mm Mid

Date: 2/26/2025

Communication System: UID 0, 5G NR (0); Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 680.5$ MHz; $\sigma = 0.86$ S/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(9.58, 10.07, 10.24); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n71 50%RB Back Side 0mm/Mid/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.338 W/kg

NR n71 50%RB Back Side 0mm/Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.987 V/m; Power Drift = -0.10 dB

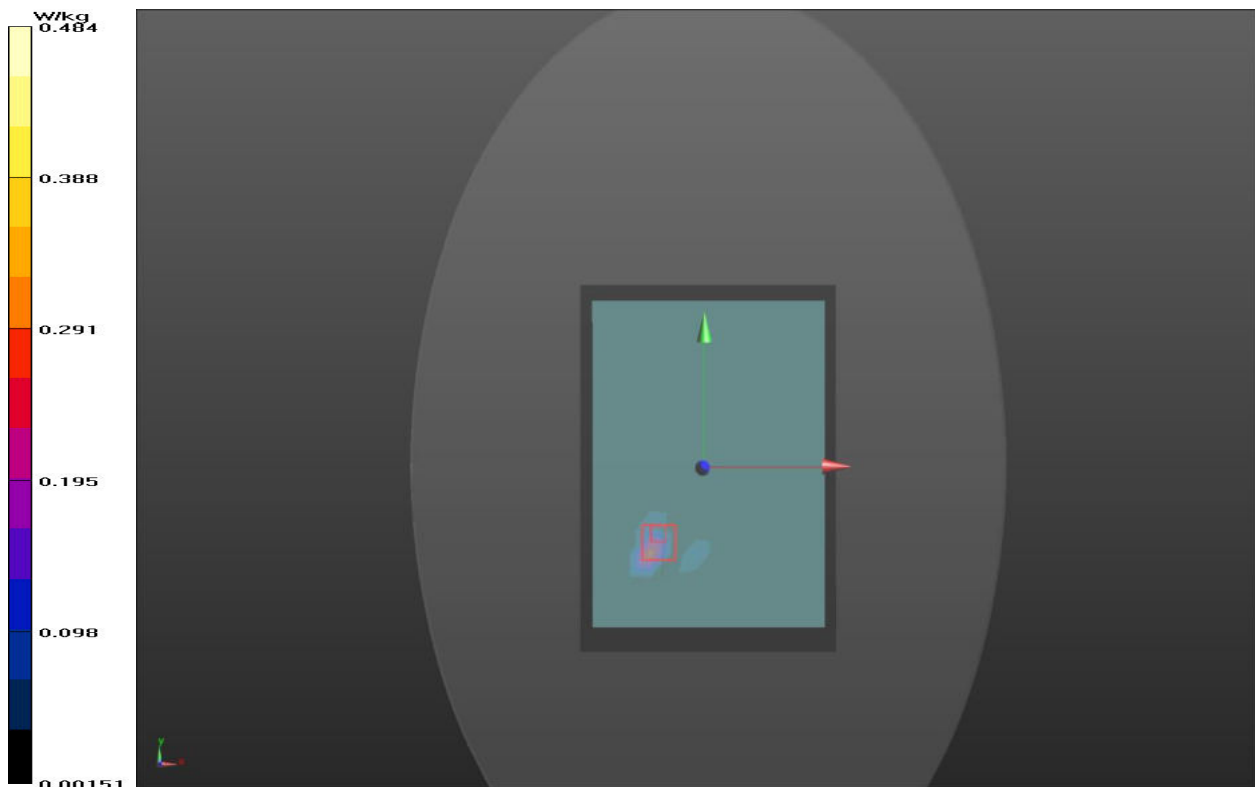
Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.180 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 43%

Maximum value of SAR (measured) = 0.484 W/kg



Plot 39 802.11b Left Edge 0mm High

Date: 2/17/2025

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.794$ S/m; $\epsilon_r = 40.726$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.62, 8.01, 8.14); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11a Top Edge 0mm/High/Area Scan (7x18x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.908 W/kg

802.11a Top Edge 0mm/High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.39 V/m; Power Drift = -0.025 dB

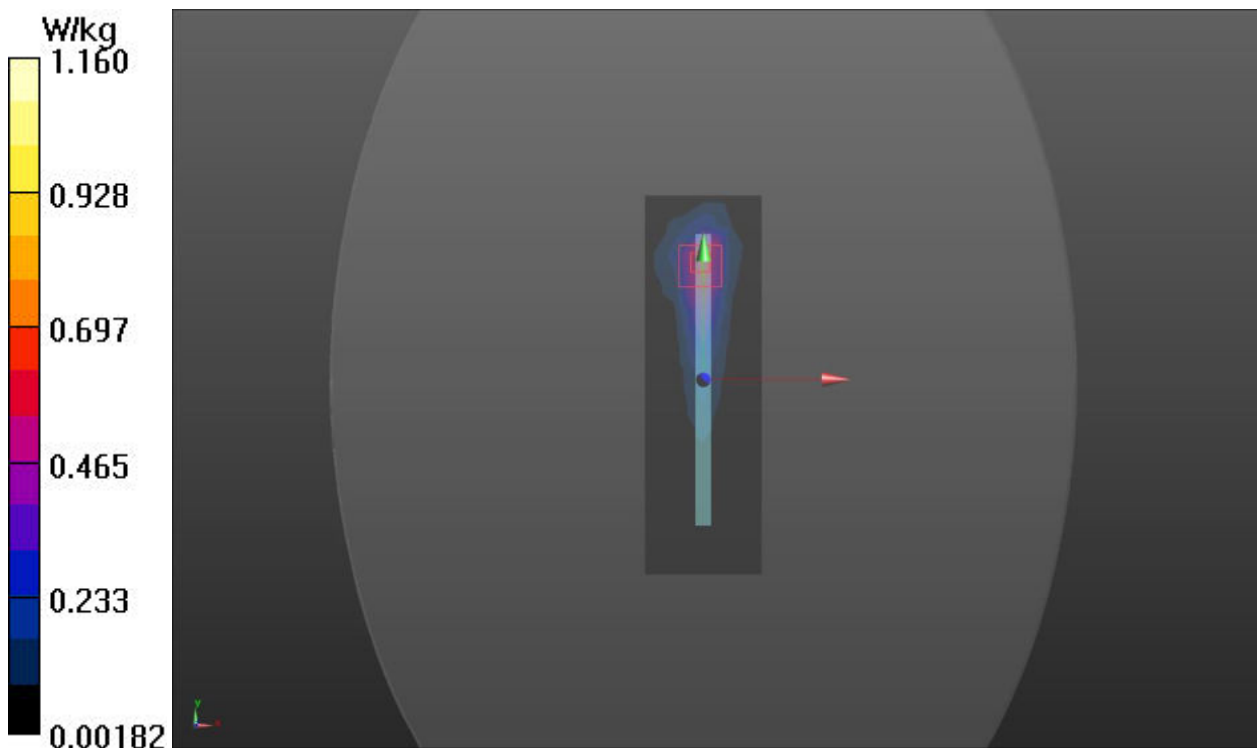
Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.446 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 44.7%

Maximum value of SAR (measured) = 1.160 W/kg



Plot 40 802.11a Top Edge 0mm Low

Date: 2/19/2025

Communication System: UID 0, 802.11a (0); Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.808$ S/m; $\epsilon_r = 36.877$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(5.87, 6.17, 6.27); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11a Top Edge 0mm/Low/Area Scan (8x27x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.912 W/kg

802.11a Top Edge 0mm/Low/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.806 V/m; Power Drift = -0.082 dB

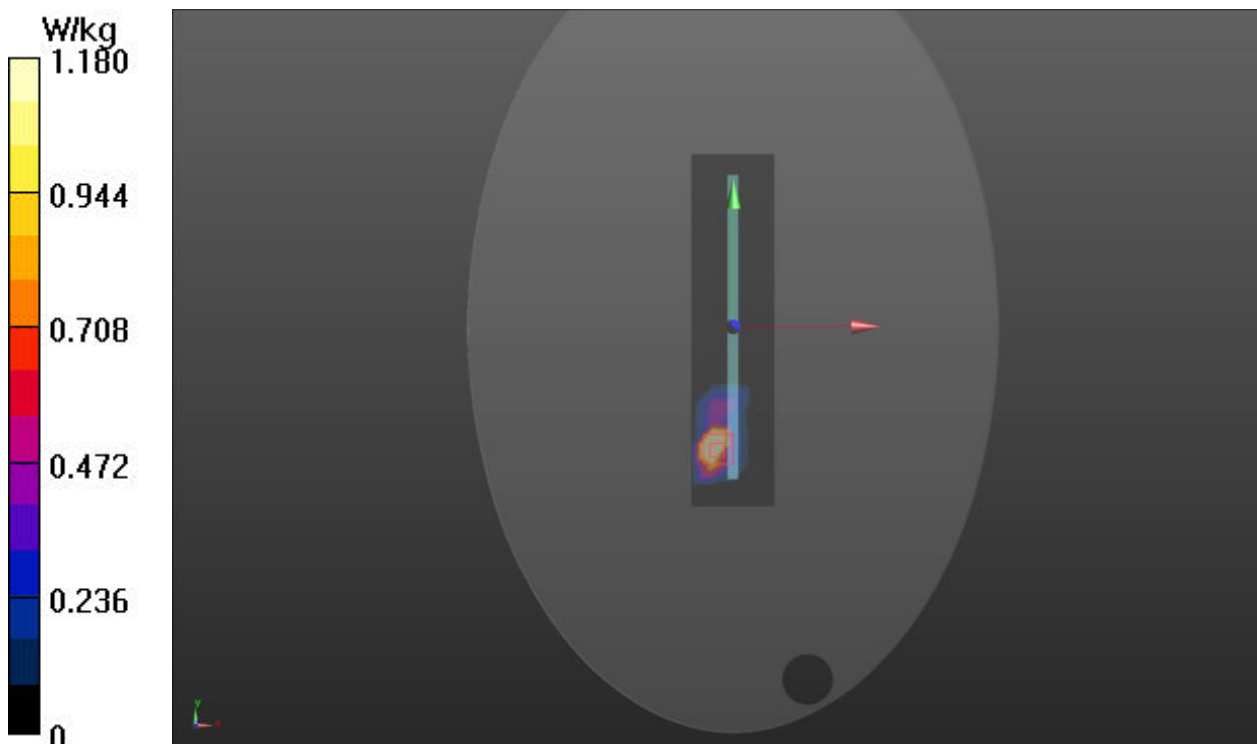
Peak SAR (extrapolated) = 3.19 W/kg

SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.253 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 1.180 W/kg



Plot 41 DH5 Back Side 0mm Mid

Date: 2/17/2025

Communication System: UID 0, BT (0); Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 40.794$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN7689; ConvF(7.62, 8.01, 8.14); Calibrated: 2024/6/4

Electronics: DAE4 SN1317; Calibrated: 2024/9/10

Phantom: ELI v4.0; Type: QDOVA001BB;

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

DH5 Back Side 0mm/Mid/Area Scan (15x12x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.253 W/kg

DH5 Back Side 0mm/Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.2110 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.672 W/kg

SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.111 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 40.4%

Maximum value of SAR (measured) = 0.433 W/kg

