

CERTIFICATION TEST REPORT

Report Number. : S-4791754791-E3V2

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-A176B/DS, SM-A176B

FCC ID : A3LSMA176B

EUT Description : GSM/WCDMA/LTE/5G NR Phone + BT/BLE,
DTS/UNII a/b/g/n/ac and NFC.

Test Standard(s) : FCC 47 CFR PART 24 SUBPART E

Date Of Issue:
2025-06-05

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-05-29	Initial issue	Yeonhee Lim
V2	2025-06-05	Updated to address TCB's question	Yeonhee Lim

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC.

MODEL NUMBER: SM-A176B/DS, SM-A176B

SERIAL NUMBER: R3CY40DGCTJ, R3CY40DGEDN (CONDUCTED);
R3CY40ZVNLE, R3CY440ZVN2M, R3CY440ZVNBZ (RADIATED);

DATE TESTED: 2025-04-17 – 2025-05-29;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 24E	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and Modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Yeonhee Lim
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 24.
3. ANSI TIA-603-E, 2016
4. ANSI C63.26, 2015
5. KDB 971168 D01 Power Meas License Digital Systems v03r01
6. KDB 971168 D02 Misc Rev Approv License Devices v02r02
7. KDB 412172 D01 Determining ERP and EIRP v01r01

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☐	Chamber 3(3m semi-anechoic chamber)
☒	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\text{EIRP} = \text{SG reading with EUT worst orientation (dBm)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	1.84 dB
Radiated Disturbance, 9 kHz to 30 MHz	2.41 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.69 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.18 dB
Radiated Disturbance, Above 18 GHz	5.07 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.3.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC.
This test report addresses the WWAN operational mode.

Representative model	Difference	Derivative model
		SM-A176B
SM-A176B/DS	Hardware	Except for the SIM socket tray, all hardware parts are the same
	Software	All features are the same except for SIM recognition algorithms and subsequently User Interface changes.

The model SM-A176B/DS was used for final testing and is representative of the test results in this report.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum average radiated EIRP output powers as follows:
Radiated samples were tested to a higher power than conducted resulting in radiated EIRP greater than conducted measurements.

GSM

FCC Part 24							
Band	ANT	Frequency Range [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
GSM 1900	A	1850.20 ~ 1909.80	GPRS	29.49	889.20	30.58	1142.88
			EGPRS	25.79	379.31	26.24	420.73

WCDMA

FCC Part 24							
Band	ANT	Frequency Range [MHz]	Modulation	Conducted		Radiated	
				Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 2	A	1852.40 ~ 1907.60	Rel. 99	23.38	217.77	23.71	234.96
			HSDPA	23.37	217.27	23.52	224.91

LTE Band 2

FCC Part 24								
Band	ANT	Frequency Range [MHz]	BandWidth [MHz]	Modulation	Conducted		Radiated	
					Avg [dBm]	Avg [mW]	Avg [dBm]	Avg [mW]
Band 2	A	1860.0 ~ 1900.0	20	QPSK	23.55	226.46	25.45	350.75
				16QAM	22.76	188.80	24.38	274.16
				64QAM	21.60	144.54		
				256QAM	18.59	72.28		
		1857.5 ~ 1902.5	15	QPSK	23.37	217.27	25.27	336.51
				16QAM	22.45	175.79	24.20	263.03
				64QAM	21.61	144.88		
				256QAM	18.71	74.30		
		1855.0 ~ 1905.0	10	QPSK	23.09	203.70	25.05	319.89
				16QAM	22.28	169.04	24.09	256.45
				64QAM	21.32	135.52		
				256QAM	18.57	71.94		
		1852.5 ~ 1907.5	5	QPSK	23.27	212.32	24.97	314.05
				16QAM	22.06	160.69	23.53	225.42
				64QAM	21.52	141.91		
				256QAM	18.58	72.11		
		1851.5 ~ 1908.5	3	QPSK	23.04	201.37	24.85	305.49
				16QAM	22.06	160.69	23.88	244.34
				64QAM	21.52	141.91		
				256QAM	18.44	69.82		
		1850.7 ~ 1909.3	1.4	QPSK	23.09	203.70	24.83	304.09
				16QAM	22.49	177.42	23.83	241.55
				64QAM	21.20	131.83		
				256QAM	18.44	69.82		
Band 2	C	1860.0 ~ 1900.0	20	QPSK	23.33	215.28	17.89	61.52
				16QAM	22.52	178.65	17.06	50.82
				64QAM	21.71	148.25		
				256QAM	18.51	70.96		
		1857.5 ~ 1902.5	15	QPSK	23.27	212.32	17.83	60.67
				16QAM	22.35	171.79	16.89	48.87
				64QAM	21.59	144.21		
				256QAM	18.58	72.11		
		1855.0 ~ 1905.0	10	QPSK	22.88	194.09	17.46	55.72
				16QAM	22.30	169.82	16.48	44.46
				64QAM	20.99	125.60		
				256QAM	18.23	66.53		
		1852.5 ~ 1907.5	5	QPSK	22.87	193.64	17.41	55.08
				16QAM	22.25	167.88	16.29	42.56
				64QAM	21.12	129.42		
				256QAM	18.12	64.86		
		1851.5 ~ 1908.5	3	QPSK	22.77	189.23	17.24	52.97
				16QAM	22.25	167.88	16.25	42.17
				64QAM	21.12	129.42		
				256QAM	18.04	63.68		
		1850.7 ~ 1909.3	1.4	QPSK	22.77	189.23	17.24	52.97
				16QAM	22.19	165.58	16.43	43.95
				64QAM	21.13	129.72		
				256QAM	18.15	65.31		

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a internal antenna for the supported bands with a maximum peak gain as follow:

Frequency (MHz)	ANT	Peak Gain (dBi)
GSM1900 / WCDMA B2 / LTE Band 2 1850 - 1910 MHz	A	2.75
	C	-3.96

5.4. WORST-CASE ORIENTATION

Following Modes should be considered as worst-case scenario for all other measurements.

- **GSM GPRS/EGPRS**
The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on GPRS and EGPRS modulations. It was found GPRS results were worst case.
- **UMTS REL 99/HSDPA**
The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on REL 99 and HSDPA modulations. It was found REL 99 results were worst case.
- **LTE Band 2**
The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found QPSK and 16QAM results were worst case.
- As for the Antenna Switching supported Tx Path Switching conditions.
Tx Path Switching can be implemented through the application provided by the manufacturer.

Band	Antenna Switching
LTE B2	Tx Path Switching

- The RF port of LTE Band 2 was tested on all antennas and reported as 'Main ANT' because the Tune up of 'Main ANT' is same to or higher than 'Sub ANT'.
- So the test case is as below.

Band	Main ANT	Tune up Limit (dBm)	Sub ANT	Tune up Limit (dBm)
LTE B2	A	24.0	C	24.0

Test Item	Test case antenna & port
Conducted output power	All
RF port test	All (Worst case reported)
EIRP	All
Radiated Spurious Emissions	All

● Conducted Spurious Emission

Highest conducted output power setting for each bands						
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	Modulation	RB size	RB offset
2	A	1860.00	20	QPSK	1	49
		1880.00			1	49
		1900.00			1	0

● Radiated Spurious Emission

Highest EIRP setting for each bands						
LTE Band	ANT	Frequency (MHz)	Bandwidth (MHz)	Modulation	RB size	RB offset
2	A	1860.00	20	QPSK	1	49
		1880.00			1	49
		1900.00			1	0
	C	1860.00	20	QPSK	1	99
		1880.00			1	49
		1900.00			1	0

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X, Y and Z, it was determined that below orientation was worst-case orientation for each band.

Band	ANT	EIRP			RSE		
		X	Y	Z	X	Y	Z
GSM 1900	A	O	-	-	-	O	-
WCDMA B2	A	O	-	-	O	-	-
LTE B2	A	O	-	-	O	-	-
	C	-	O	-	-	O	-

Note1 : For the radiated spurious testing, the EUT attached with travel adapter for the worst case condition. The EUT is continuously communicated with the call box during the tests.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37XBMJF8FBDKA	N/A
Data Cable	SAMSUNG	EP-DN980B	N/A	N/A

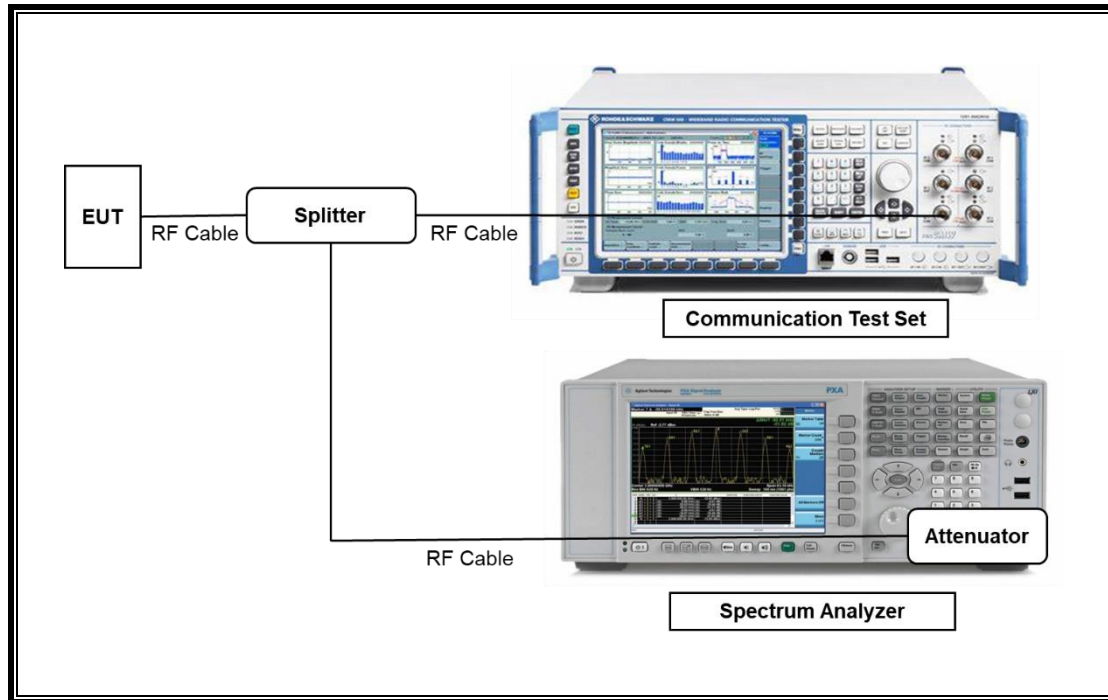
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

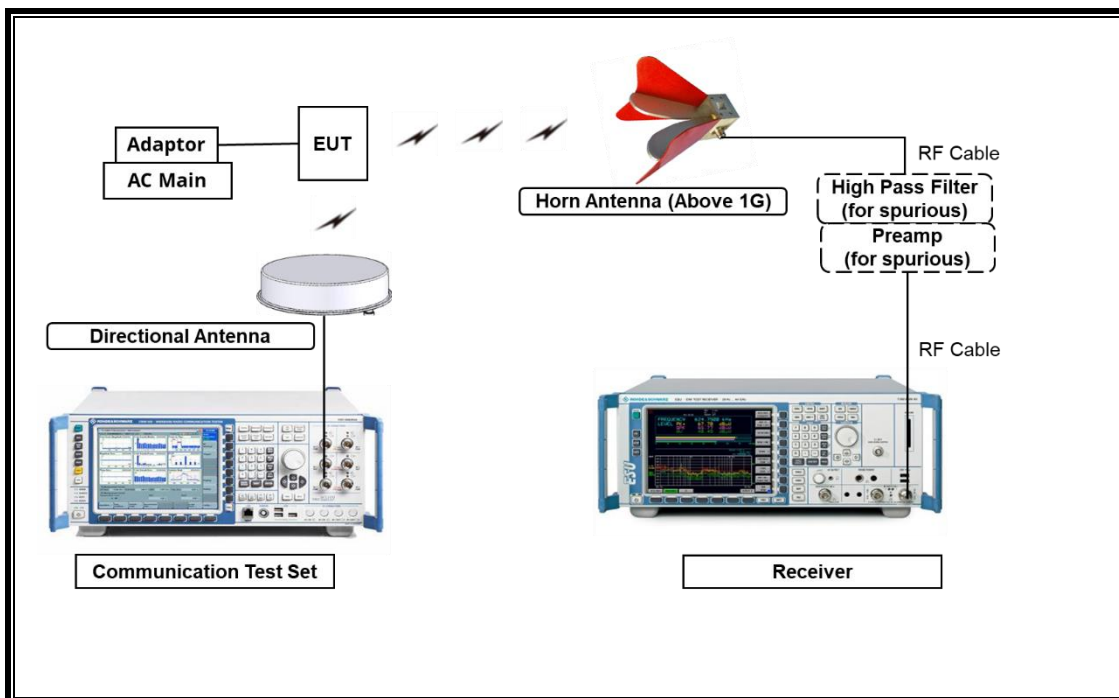
TEST SETUP

The EUT is continuously communicated with the call box during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121D DB-4	00164753	2027-01-08
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2026-07-23
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2025-10-06
Preamplifier	ETS	3116C-PA	00168841	2025-07-25
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	750	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	845	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	749	2026-08-12
Antenna, Horn, 18 GHz	ETS	3115	00167211	2026-07-17
Antenna, Horn, 18 GHz	ETS	3115	00161451	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168724	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Communications Test Set	R&S	CMW500	169797	2025-07-23
DC Power Supply	Agilent / HP	E3640A	MY54226395	2025-07-24
Preamplifier, 1000 MHz	Sonoma	310N	341282	2025-07-22
Preamplifier, 1000 MHz	Sonoma	310N	370599	2025-07-22
Preamplifier, 1000 MHz	Sonoma	310N	351741	2025-07-22
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2025-07-23
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-182020	28451	2025-07-22
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-181515	23576	2025-07-25
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2025-07-24
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2026-01-02
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY57143717	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2025-07-22
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2025-07-23
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2025-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2025-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2025-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2025-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A009	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A001	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A008	2025-07-23
Attenuator	PASTERNAK	PE7004-10	2	2025-07-23
Attenuator	PASTERNAK	PE7395-10	A011	2025-07-25
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2025-09-07
Temperature Chamber	ESPEC	SH-642	93001109	2025-07-23
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2026-01-03
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2026-01-03
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2026-01-03
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 3.4	
Radiated software	UL	UL EMC	Ver 9.5	
Antenna port test software (5G NR FR1)	UL	UL iM	Ver 1.06	

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Results
2.1046	Conducted Output Power	N/A	Conducted	Complies
2.1049	Occupied Bandwidth (99%)	N/A		Complies
24.238(a)	Conducted Band Edge / Conducted Spurious Emission	-13 dBm		Complies
24.235	Frequency Stability	2.5 ppm		Complies
24.232(c)	Effective Isotropic Radiated Power	33 dBm	Radiated	Complies
24.238(a)	Radiated Spurious Emission	-13 dBm		Complies

8. CONDUCTED RESULTS

8.1. CONDUCTED OUTPUT POWER

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to CMW500 Test Set and configured to operate at maximum power.

RESULTS

See the following pages.

8.1.1. CONDUCTED AVERAGE OUTPUT POWER

GSM (ANT A)

Mode	Coding Scheme	Time Slots	Maximum Average Power (dBm)			
			Measured		Tune-up Limit	
			Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM (Voice)	CS1	1	29.48	20.29	30.5	21.3
			29.49	20.30		
			29.17	19.98		
GPRS (GMSK)	CS1	1	29.47	20.28	30.5	21.3
			29.47	20.28		
			29.11	19.92		
		2	26.71	20.53	29.0	22.8
			27.07	20.89		
			26.86	20.68		
		3	25.09	20.67	27.5	23.1
			25.34	20.92		
			25.09	20.67		
		4	24.04	20.87	25.5	22.3
			24.08	20.91		
			23.67	20.50		
EGPRS (8PSK)	MCS5	1	25.58	16.39	27.0	17.8
			25.79	16.60		
			25.43	16.24		
		2	23.23	17.05	25.0	18.8
			23.56	17.38		
			23.53	17.35		
		3	21.77	17.35	23.0	18.6
			22.12	17.70		
			21.74	17.32		
		4	20.25	17.08	22.0	18.8
			20.61	17.44		
			20.23	17.06		

WCDMA B2 (ANT A)

Mode		UL Ch No.	Freq. (MHz)	Maximum Average Power (dBm)		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	23.16	N/A	24.0
		9400	1880.0	23.38		
		9538	1907.6	23.18		
HSDPA	Subtest 1	9262	1852.4	23.15	0	24.0
		9400	1880.0	23.37		
		9538	1907.6	23.19		
	Subtest 2	9262	1852.4	22.75	0	24.0
		9400	1880.0	22.90		
		9538	1907.6	22.78		
	Subtest 3	9262	1852.4	22.22	0.5	23.5
		9400	1880.0	22.38		
		9538	1907.6	22.28		
	Subtest 4	9262	1852.4	21.67	0.5	23.5
		9400	1880.0	21.85		
		9538	1907.6	21.73		
HSUPA	Subtest 1	9262	1852.4	22.23	0	24.0
		9400	1880.0	22.27		
		9538	1907.6	22.21		
	Subtest 2	9262	1852.4	19.77	2	22.0
		9400	1880.0	19.87		
		9538	1907.6	19.68		
	Subtest 3	9262	1852.4	22.23	1	23.0
		9400	1880.0	22.34		
		9538	1907.6	22.21		
	Subtest 4	9262	1852.4	20.19	2	22.0
		9400	1880.0	20.34		
		9538	1907.6	20.18		
	Subtest 5	9262	1852.4	23.17	0	24.0
		9400	1880.0	23.34		
		9538	1907.6	23.17		
DC-HSDPA	Subtest 1	9262	1852.4	23.23	0	24.0
		9400	1880.0	23.35		
		9538	1907.6	23.25		
	Subtest 2	9262	1852.4	22.84	0	24.0
		9400	1880.0	22.97		
		9538	1907.6	22.86		
	Subtest 3	9262	1852.4	21.79	0.5	23.5
		9400	1880.0	21.94		
		9538	1907.6	21.83		
	Subtest 4	9262	1852.4	21.77	0.5	23.5
		9400	1880.0	21.97		
		9538	1907.6	21.87		

LTE Band 2 (ANT A)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				18700	18900	19100		
				1860.00 MHz	1880.00 MHz	1900.00 MHz		
20 MHz	QPSK	1	0	23.18	23.04	23.55	0.0	24.0
		1	49	23.42	23.12	23.27	0.0	24.0
		1	99	23.40	23.12	23.05	0.0	24.0
		50	0	22.14	22.08	22.40	1.0	23.0
		50	24	22.20	22.13	22.28	1.0	23.0
		50	50	22.27	22.14	22.14	1.0	23.0
	16QAM	100	0	22.24	22.12	22.27	1.0	23.0
		1	0	22.59	22.27	22.63	1.0	23.0
		1	49	22.70	22.36	22.31	1.0	23.0
		1	99	22.76	22.35	22.15	1.0	23.0
		50	0	21.15	21.08	21.38	2.0	22.0
		50	24	21.19	21.13	21.22	2.0	22.0
	64QAM	50	50	21.25	21.13	21.10	2.0	22.0
		100	0	21.22	21.10	21.24	2.0	22.0
		1	0	21.35	21.47	21.47	2.0	22.0
		1	49	21.52	21.53	21.20	2.0	22.0
		1	99	21.60	21.51	21.01	2.0	22.0
		50	0	20.20	20.06	20.40	3.0	21.0
	256QAM	50	24	20.26	20.14	20.26	3.0	21.0
		50	50	20.32	20.15	20.12	3.0	21.0
		100	0	20.23	20.06	20.24	3.0	21.0
		1	0	18.31	18.25	18.49	5.0	19.0
		1	49	18.36	18.59	18.54	5.0	19.0
		1	99	18.56	18.38	17.98	5.0	19.0
15 MHz	QPSK	50	0	18.23	18.18	18.51	5.0	19.0
		50	24	18.27	18.24	18.33	5.0	19.0
		50	50	18.35	18.27	18.21	5.0	19.0
		100	0	18.26	18.21	18.34	5.0	19.0
	16QAM							
	64QAM							
	256QAM							

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18650	18900	19150		
				1855.00 MHz	1880.00 MHz	1905.00 MHz		
10 MHz	QPSK	1	0	22.90	22.98	23.09	0.0	24.0
		1	25	22.66	22.94	22.87	0.0	24.0
		1	49	22.92	23.07	22.99	0.0	24.0
		25	0	22.12	22.20	22.21	1.0	23.0
		25	12	22.13	22.25	22.19	1.0	23.0
		25	25	22.14	22.23	22.15	1.0	23.0
	16QAM	50	0	22.14	22.27	22.23	1.0	23.0
		1	0	21.91	21.93	22.06	1.0	23.0
		1	25	21.80	22.17	21.67	1.0	23.0
		1	49	21.79	22.18	22.28	1.0	23.0
		25	0	21.02	21.13	21.18	2.0	22.0
		25	12	21.03	21.14	21.18	2.0	22.0
	64QAM	25	25	21.03	21.13	21.09	2.0	22.0
		50	0	21.15	21.16	21.12	2.0	22.0
		1	0	20.97	21.08	21.32	2.0	22.0
		1	25	20.85	20.93	20.84	2.0	22.0
		1	49	21.13	21.22	21.05	2.0	22.0
		25	0	19.96	20.10	20.14	3.0	21.0
	256QAM	25	12	20.03	20.08	20.08	3.0	21.0
		25	25	20.07	20.14	20.07	3.0	21.0
		50	0	20.12	20.18	20.19	3.0	21.0
		1	0	18.37	18.23	18.57	5.0	19.0
		1	25	18.06	18.03	17.91	5.0	19.0
		1	49	18.01	17.99	18.35	5.0	19.0
5 MHz	QPSK	25	0	18.01	18.24	18.17	5.0	19.0
		25	12	17.96	18.17	18.22	5.0	19.0
		25	25	17.96	18.11	18.04	5.0	19.0
		50	0	18.07	18.20	18.14	5.0	19.0
	16QAM	1	0	22.89	22.98	22.90	0.0	24.0
		1	12	22.90	23.27	22.98	0.0	24.0
		1	24	22.76	23.00	22.89	0.0	24.0
		12	0	21.90	22.05	21.94	1.0	23.0
		12	7	21.86	22.00	21.83	1.0	23.0
		12	13	21.94	22.11	21.86	1.0	23.0
	64QAM	25	0	22.01	22.20	22.03	1.0	23.0
		1	0	22.01	21.87	21.64	1.0	23.0
		1	12	21.98	21.45	21.69	1.0	23.0
		1	24	21.92	22.06	21.54	1.0	23.0
		12	0	20.83	20.93	20.87	2.0	22.0
		12	7	20.94	20.95	20.78	2.0	22.0
	256QAM	12	13	20.94	21.00	20.92	2.0	22.0
		25	0	21.02	21.11	21.01	2.0	22.0
		1	0	20.64	21.17	20.76	2.0	22.0
		1	12	21.11	21.52	20.99	2.0	22.0
		1	24	20.85	21.09	20.80	2.0	22.0
		12	0	19.92	20.09	19.91	3.0	21.0
		12	7	20.01	20.05	20.02	3.0	21.0
		12	13	20.03	20.04	20.10	3.0	21.0
		25	0	19.97	20.02	19.89	3.0	21.0
		1	0	18.01	18.28	17.91	5.0	19.0
		1	12	18.10	18.49	18.34	5.0	19.0
		1	24	17.97	18.58	18.04	5.0	19.0
		12	0	17.92	18.13	17.94	5.0	19.0
		12	7	18.07	18.05	17.88	5.0	19.0
		12	13	17.85	18.18	17.90	5.0	19.0
		25	0	18.06	18.14	18.05	5.0	19.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18615	18900	19185		
				1851.50 MHz	1880.00 MHz	1908.50 MHz		
3 MHz	QPSK	1	0	22.75	23.02	22.83	0.0	24.0
		1	8	22.75	23.04	22.64	0.0	24.0
		1	14	22.79	23.04	22.81	0.0	24.0
		8	0	21.80	22.06	21.82	1.0	23.0
		8	4	21.82	22.03	21.89	1.0	23.0
		8	7	21.84	22.02	21.82	1.0	23.0
	16QAM	15	0	21.79	21.97	21.85	1.0	23.0
		1	0	22.35	22.04	21.97	1.0	23.0
		1	8	21.70	22.34	21.84	1.0	23.0
		1	14	21.67	21.82	22.01	1.0	23.0
		8	0	20.84	20.97	20.88	2.0	22.0
		8	4	20.67	20.92	20.92	2.0	22.0
	64QAM	8	7	20.78	21.19	20.93	2.0	22.0
		15	0	20.79	21.00	20.80	2.0	22.0
		1	0	20.75	21.09	20.86	2.0	22.0
		1	8	20.45	20.88	21.01	2.0	22.0
		1	14	21.08	21.07	20.86	2.0	22.0
		8	0	19.86	20.01	19.82	3.0	21.0
	256QAM	8	4	19.88	20.06	19.89	3.0	21.0
		8	7	19.96	20.08	19.77	3.0	21.0
		15	0	19.80	19.97	19.93	3.0	21.0
		1	0	18.06	18.08	17.84	5.0	19.0
		1	8	17.88	18.44	17.68	5.0	19.0
		1	14	17.87	17.91	17.99	5.0	19.0
		8	0	17.98	18.10	18.03	5.0	19.0
		8	4	17.81	18.06	17.90	5.0	19.0
		8	7	17.81	18.23	17.82	5.0	19.0
		15	0	18.02	18.08	17.99	5.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18607	18900	19193		
				1850.70 MHz	1880.00 MHz	1909.30 MHz		
1.4 MHz	QPSK	1	0	22.83	22.98	22.80	0.0	24.0
		1	3	22.59	22.82	22.66	0.0	24.0
		1	5	22.71	23.00	22.73	0.0	24.0
		3	0	22.82	23.09	22.82	0.0	24.0
		3	1	22.83	23.06	22.78	0.0	24.0
		3	3	22.76	23.00	22.74	0.0	24.0
	16QAM	6	0	21.83	22.06	21.81	1.0	23.0
		1	0	22.49	22.14	21.69	1.0	23.0
		1	3	21.98	21.59	21.26	1.0	23.0
		1	5	21.54	21.84	21.97	1.0	23.0
		3	0	21.65	21.92	21.61	1.0	23.0
		3	1	21.70	21.88	21.73	1.0	23.0
	64QAM	3	3	21.70	21.87	21.50	1.0	23.0
		6	0	20.73	20.89	20.77	2.0	22.0
		1	0	20.99	20.78	21.05	2.0	22.0
		1	3	20.77	21.03	20.56	2.0	22.0
		1	5	21.03	21.20	21.12	2.0	22.0
		3	0	20.97	21.00	20.84	2.0	22.0
	256QAM	3	1	20.87	21.05	20.81	2.0	22.0
		3	3	20.85	20.94	20.75	2.0	22.0
		6	0	19.78	19.97	19.73	3.0	21.0
		1	0	17.78	17.97	17.73	5.0	19.0
		1	3	18.22	17.92	17.54	5.0	19.0
		1	5	17.87	18.44	17.58	5.0	19.0
		3	0	18.02	18.33	17.94	5.0	19.0
		3	1	17.92	18.11	17.91	5.0	19.0
		3	3	17.88	18.24	17.86	5.0	19.0
		6	0	17.78	18.07	17.81	5.0	19.0

LTE Band 2 (ANT C)

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Average Power (dBm)				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				18700	18900	19100		
				1860.00 MHz	1880.00 MHz	1900.00 MHz		
20 MHz	QPSK	1	0	22.99	22.88	23.33	0.0	24.0
		1	49	23.05	23.13	23.05	0.0	24.0
		1	99	23.17	22.98	22.91	0.0	24.0
		50	0	21.98	21.89	22.18	1.0	23.0
		50	24	22.03	21.92	22.05	1.0	23.0
		50	50	22.09	21.95	21.92	1.0	23.0
		100	0	22.04	21.93	22.06	1.0	23.0
	16QAM	1	0	22.12	22.28	22.52	1.0	23.0
		1	49	22.09	22.40	22.24	1.0	23.0
		1	99	22.27	22.33	22.12	1.0	23.0
		50	0	20.98	20.89	21.15	2.0	22.0
		50	24	20.99	20.93	21.03	2.0	22.0
		50	50	21.07	20.94	20.92	2.0	22.0
		100	0	21.03	20.93	21.04	2.0	22.0
	64QAM	1	0	20.95	21.08	21.71	2.0	22.0
		1	49	20.96	21.37	21.29	2.0	22.0
		1	99	21.13	21.18	21.31	2.0	22.0
		50	0	19.99	19.95	20.18	3.0	21.0
		50	24	20.03	19.99	20.05	3.0	21.0
		50	50	20.10	19.98	19.92	3.0	21.0
		100	0	20.03	19.93	20.02	3.0	21.0
	256QAM	1	0	17.91	18.05	18.51	5.0	19.0
		1	49	18.26	18.02	18.51	5.0	19.0
		1	99	18.09	18.11	18.08	5.0	19.0
		50	0	18.07	17.95	18.23	5.0	19.0
		50	24	18.10	17.99	18.07	5.0	19.0
		50	50	18.17	18.00	17.95	5.0	19.0
		100	0	18.10	17.94	18.07	5.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18675	18900	19125		
				1857.50 MHz	1880.00 MHz	1902.50 MHz		
15 MHz	QPSK	1	0	22.94	22.87	23.27	0.0	24.0
		1	37	23.13	23.16	23.16	0.0	24.0
		1	74	23.02	22.93	22.93	0.0	24.0
		36	0	22.06	21.98	22.26	1.0	23.0
		36	20	22.09	22.01	22.04	1.0	23.0
		36	39	22.07	22.04	22.04	1.0	23.0
		75	0	22.13	22.09	22.17	1.0	23.0
	16QAM	1	0	22.04	21.77	22.35	1.0	23.0
		1	37	21.62	21.69	21.55	1.0	23.0
		1	74	21.49	22.21	21.63	1.0	23.0
		36	0	20.96	20.89	21.12	2.0	22.0
		36	20	21.04	20.99	21.08	2.0	22.0
		36	39	21.04	20.98	20.95	2.0	22.0
		75	0	21.06	21.03	21.06	2.0	22.0
	64QAM	1	0	21.20	20.88	21.27	2.0	22.0
		1	37	21.34	21.31	21.59	2.0	22.0
		1	74	21.17	20.78	21.05	2.0	22.0
		36	0	19.95	19.99	20.17	3.0	21.0
		36	20	19.93	19.95	20.10	3.0	21.0
		36	39	20.02	20.02	19.96	3.0	21.0
		75	0	20.03	20.02	20.05	3.0	21.0
	256QAM	1	0	18.20	18.53	18.58	5.0	19.0
		1	37	18.16	17.77	18.05	5.0	19.0
		1	74	18.49	17.94	18.37	5.0	19.0
		36	0	17.99	17.95	18.23	5.0	19.0
		36	20	18.10	18.05	18.14	5.0	19.0
		36	39	18.08	18.12	18.05	5.0	19.0
		75	0	18.08	17.98	18.15	5.0	19.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18650	18900	19150		
				1855.00 MHz	1880.00 MHz	1905.00 MHz		
10 MHz	QPSK	1	0	22.56	22.88	22.82	0.0	24.0
		1	25	22.55	22.62	22.72	0.0	24.0
		1	49	22.85	22.77	22.69	0.0	24.0
		25	0	21.84	21.93	21.96	1.0	23.0
		25	12	21.82	21.92	21.89	1.0	23.0
		25	25	21.85	21.92	21.90	1.0	23.0
	16QAM	50	0	21.84	22.04	22.00	1.0	23.0
		1	0	21.70	21.85	21.86	1.0	23.0
		1	25	21.78	21.97	21.23	1.0	23.0
		1	49	21.34	22.30	21.50	1.0	23.0
		25	0	20.71	20.92	20.89	2.0	22.0
		25	12	20.69	20.84	20.95	2.0	22.0
	64QAM	25	25	20.81	20.90	20.87	2.0	22.0
		50	0	20.76	20.92	20.92	2.0	22.0
		1	0	20.97	20.74	20.99	2.0	22.0
		1	25	20.44	20.65	20.79	2.0	22.0
		1	49	20.70	20.89	20.80	2.0	22.0
		25	0	19.82	19.94	19.97	3.0	21.0
5 MHz	QPSK	25	12	19.78	19.84	19.93	3.0	21.0
		25	25	19.85	19.99	19.88	3.0	21.0
		50	0	19.85	19.92	19.91	3.0	21.0
	16QAM	1	0	17.91	17.80	17.83	5.0	19.0
		1	25	17.79	17.82	17.94	5.0	19.0
		1	49	17.76	18.23	17.81	5.0	19.0
	64QAM	25	0	17.74	17.91	18.01	5.0	19.0
		25	12	17.70	17.96	18.01	5.0	19.0
		25	25	17.82	17.83	17.85	5.0	19.0
	256QAM	50	0	17.84	17.89	17.91	5.0	19.0
		1	0	22.65	22.77	22.67	0.0	24.0
	QPSK	1	12	22.73	22.87	22.75	0.0	24.0
		1	24	22.68	22.79	22.63	0.0	24.0
		12	0	21.73	21.87	21.78	1.0	23.0
		12	7	21.71	21.82	21.62	1.0	23.0
		12	13	21.66	21.84	21.76	1.0	23.0
	16QAM	25	0	21.76	21.95	21.78	1.0	23.0
		1	0	21.64	21.76	21.59	1.0	23.0
		1	12	21.68	21.64	21.46	1.0	23.0
		1	24	21.62	22.25	21.65	1.0	23.0
		12	0	20.61	20.84	20.76	2.0	22.0
		12	7	20.78	20.86	20.76	2.0	22.0
	64QAM	12	13	20.69	20.87	20.74	2.0	22.0
		25	0	20.84	20.89	20.76	2.0	22.0
		1	0	20.90	20.59	20.78	2.0	22.0
		1	12	20.98	21.12	21.08	2.0	22.0
		1	24	20.60	21.02	20.67	2.0	22.0
		12	0	19.70	19.84	19.74	3.0	21.0
	256QAM	12	7	19.76	19.90	19.90	3.0	21.0
		12	13	19.82	20.03	19.69	3.0	21.0
		25	0	19.77	19.86	19.75	3.0	21.0
		1	0	17.62	17.59	18.10	5.0	19.0
		1	12	17.74	18.12	17.59	5.0	19.0
		1	24	17.62	17.87	17.54	5.0	19.0
		12	0	17.73	17.91	17.72	5.0	19.0
		12	7	17.65	18.01	17.67	5.0	19.0
		12	13	17.78	17.95	17.68	5.0	19.0
		25	0	17.71	17.88	17.72	5.0	19.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				18615	18900	19185		
				1851.50 MHz	1880.00 MHz	1908.50 MHz		
3 MHz	QPSK	1	0	22.58	22.75	22.58	0.0	24.0
		1	8	22.61	22.70	22.49	0.0	24.0
		1	14	22.59	22.77	22.62	0.0	24.0
		8	0	21.63	21.78	21.61	1.0	23.0
		8	4	21.62	21.88	21.67	1.0	23.0
		8	7	21.63	21.80	21.60	1.0	23.0
	16QAM	15	0	21.54	21.84	21.64	1.0	23.0
		1	0	21.66	22.00	21.64	1.0	23.0
		1	8	21.59	21.38	21.65	1.0	23.0
		1	14	21.54	22.00	21.59	1.0	23.0
		8	0	20.74	20.77	20.58	2.0	22.0
		8	4	20.67	20.90	20.82	2.0	22.0
	64QAM	8	7	20.72	20.84	20.71	2.0	22.0
		15	0	20.69	20.88	20.64	2.0	22.0
		1	0	20.97	20.76	20.72	2.0	22.0
		1	8	20.54	20.68	20.78	2.0	22.0
		1	14	20.77	21.01	20.55	2.0	22.0
		8	0	19.70	19.77	19.66	3.0	21.0
	256QAM	8	4	19.65	19.89	19.56	3.0	21.0
		8	7	19.59	19.76	19.62	3.0	21.0
		15	0	19.66	19.88	19.67	3.0	21.0
		1	0	17.91	17.86	17.61	5.0	19.0
		1	8	17.66	17.82	17.81	5.0	19.0
		1	14	18.04	17.70	17.32	5.0	19.0
1.4 MHz	QPSK	8	0	17.82	17.89	17.72	5.0	19.0
		8	4	17.81	17.89	17.50	5.0	19.0
		8	7	17.71	17.76	17.72	5.0	19.0
		15	0	17.71	17.95	17.74	5.0	19.0
	16QAM	1	0	22.61	22.65	22.51	0.0	24.0
		1	3	22.50	22.61	22.49	0.0	24.0
		1	5	22.63	22.67	22.54	0.0	24.0
		3	0	22.65	22.71	22.59	0.0	24.0
		3	1	22.68	22.73	22.61	0.0	24.0
		3	3	22.55	22.77	22.63	0.0	24.0
	64QAM	6	0	21.71	21.84	21.59	1.0	23.0
		1	0	21.55	21.80	21.84	1.0	23.0
		1	3	21.75	21.81	21.38	1.0	23.0
		1	5	21.90	22.19	21.55	1.0	23.0
		3	0	21.41	21.93	21.56	1.0	23.0
		3	1	21.69	22.00	21.63	1.0	23.0
	256QAM	3	3	21.77	21.63	21.38	1.0	23.0
		6	0	20.60	20.78	20.54	2.0	22.0
		1	0	20.72	20.85	20.87	2.0	22.0
		1	3	20.41	20.58	20.41	2.0	22.0
		1	5	20.52	21.13	20.46	2.0	22.0
		3	0	20.74	20.93	20.40	2.0	22.0
		3	1	20.62	20.51	20.39	2.0	22.0
		3	3	20.75	20.84	20.59	2.0	22.0
		6	0	19.62	19.93	19.66	3.0	21.0
		1	0	17.46	17.88	17.65	5.0	19.0
		1	3	17.54	18.00	17.76	5.0	19.0
		1	5	17.65	17.91	17.58	5.0	19.0
		3	0	17.82	17.85	17.82	5.0	19.0
		3	1	17.89	18.00	17.88	5.0	19.0
		3	3	17.86	18.15	17.84	5.0	19.0
		6	0	17.67	17.94	17.56	5.0	19.0

8.2. PEAK TO AVERAGE RATIO

Test Procedure

Per KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to CMW500 Test Set and configured to operate at maximum power. The PAR were measured on the Spectrum Analyzer.

Test Spec

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

NOTE

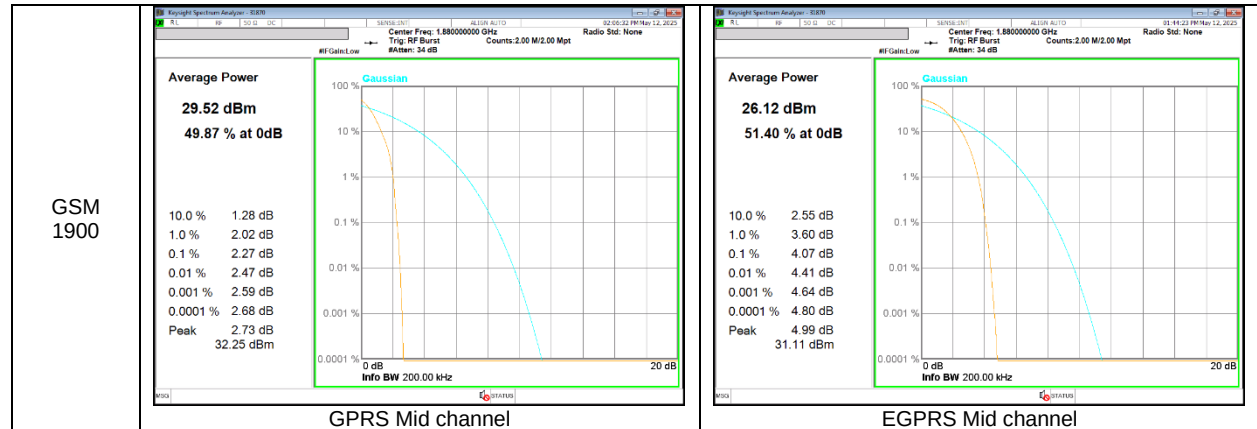
LTE: All modulations were investigated and the worst modulations (QPSK, 256QAM) are reported.

RESULTS

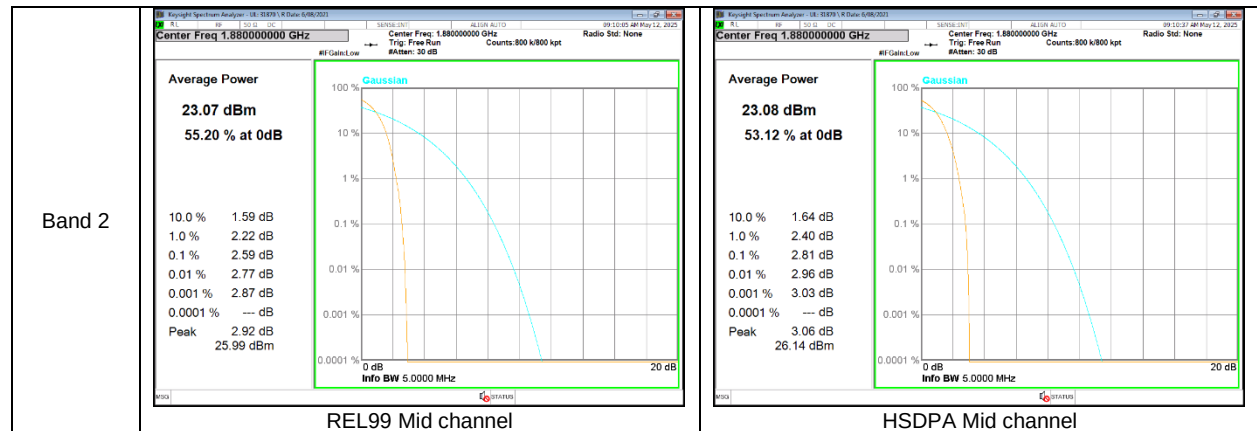
See the following pages.

8.2.1. CONDUCTED PEAK TO AVERAGE RESULT

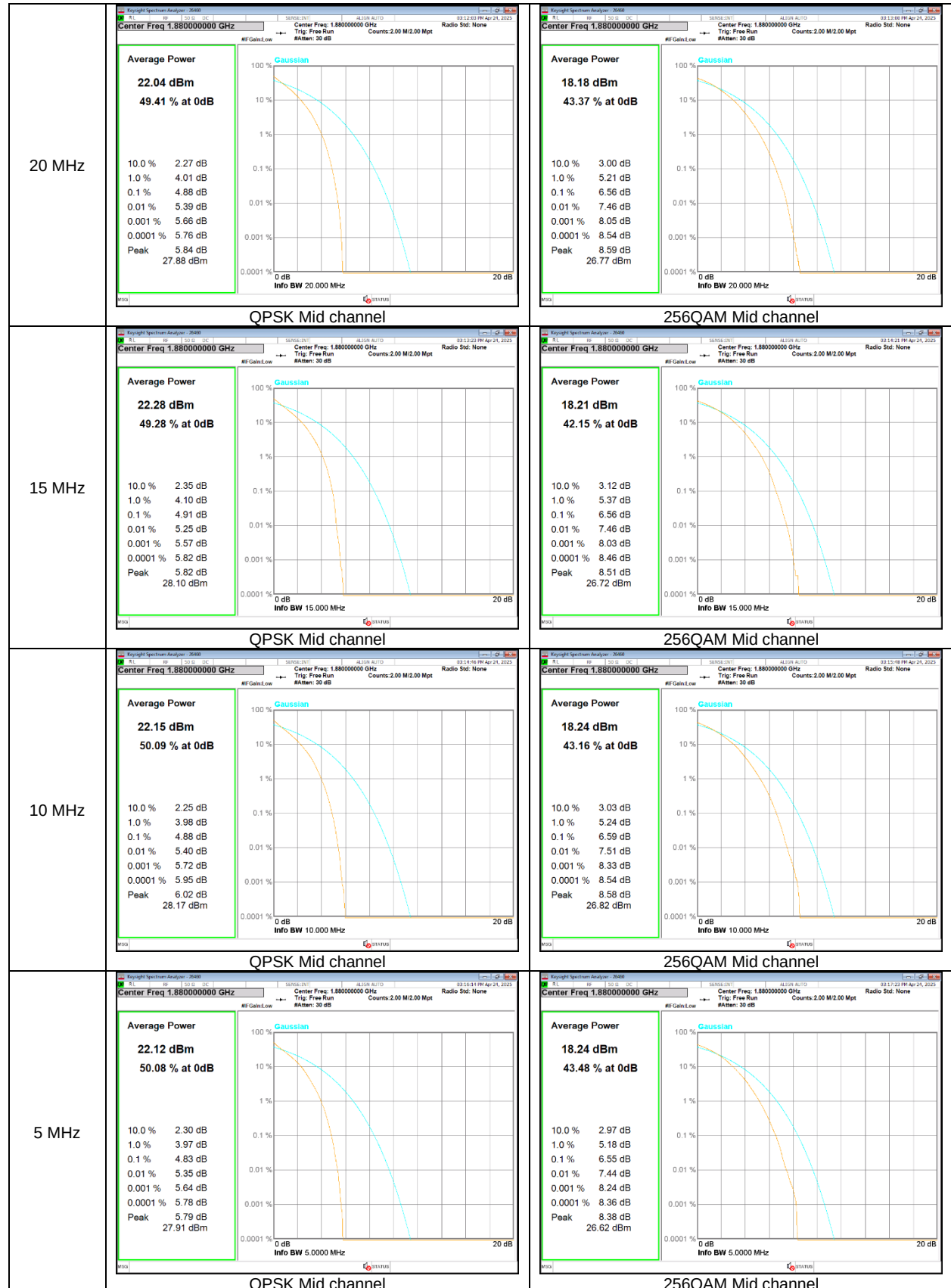
GSM (ANT A)

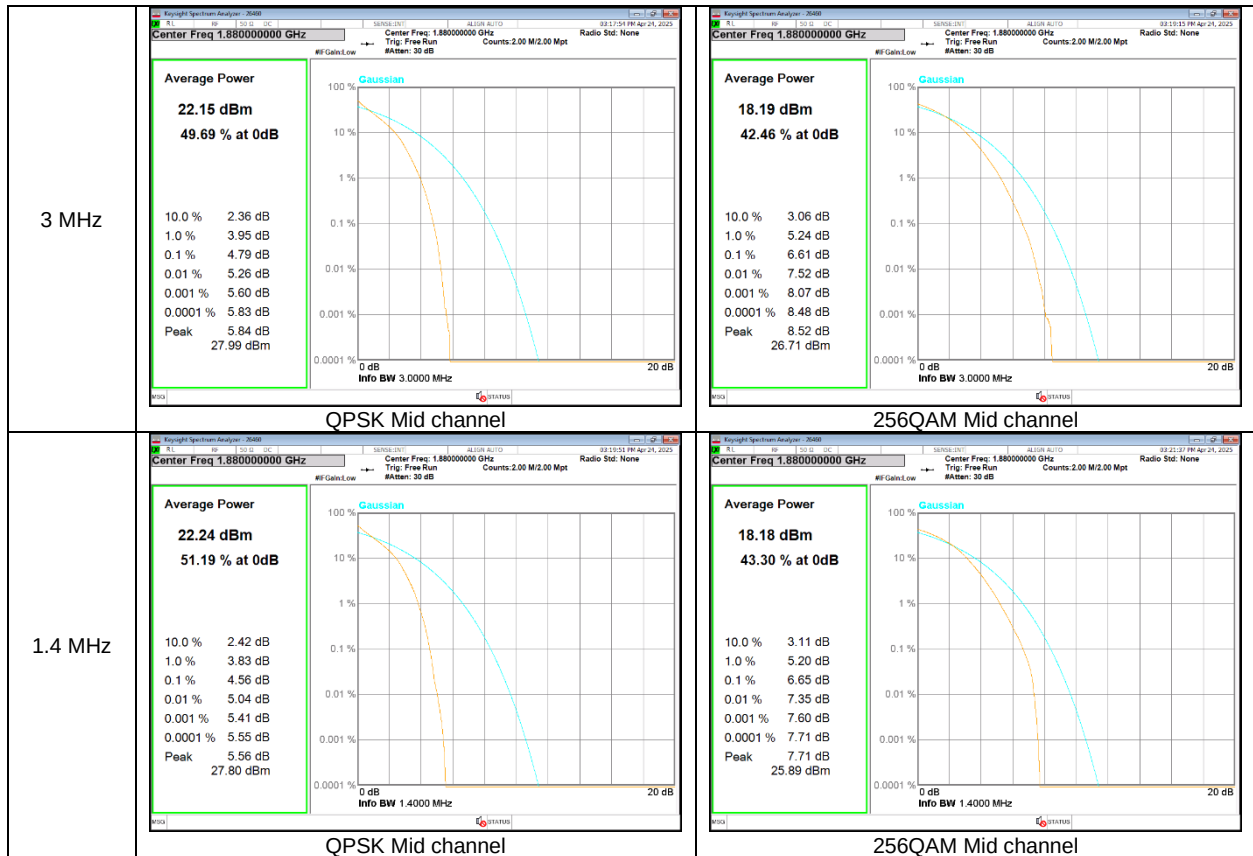


WCDMA (ANT A)



LTE Band 2 (ANT A)





8.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at middle channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

RESULTS

See the following pages.

- GSM (ANT A)

Band	Modulation	Frequency [MHz]	99% BW (kHz)	-26dB BW (kHz)
1900	GPRS	1880.00	245.91	314.40
	EGPRS		251.43	323.00

- WCDMA (ANT A)

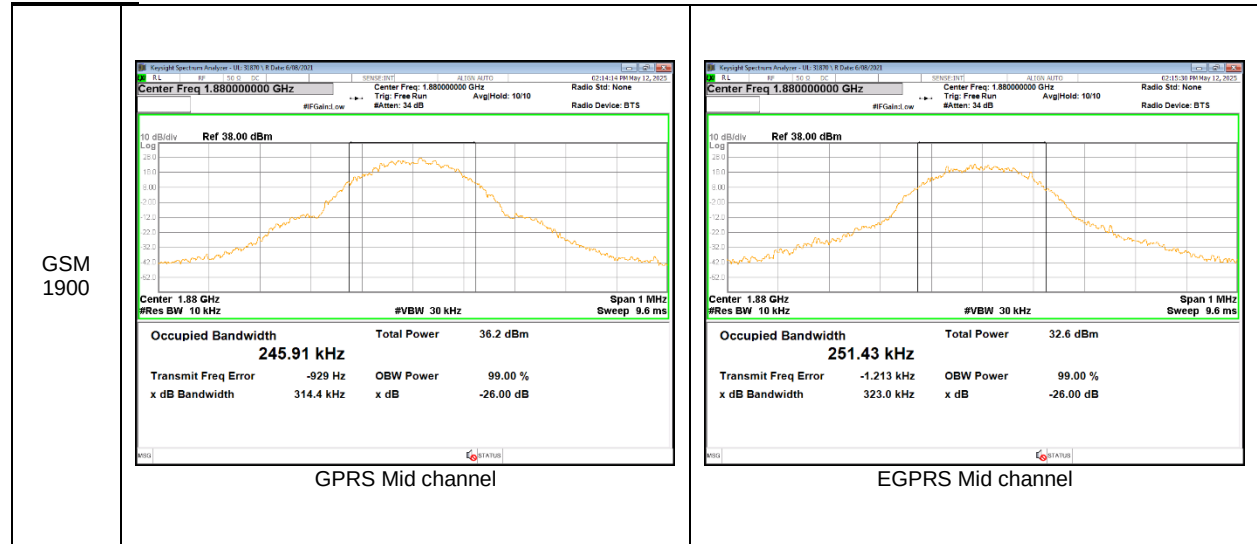
Band	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
B2	Rel.99	1880.00	4.184	4.748
	HSDPA		4.175	4.742

- LTE Band 2 (ANT A)

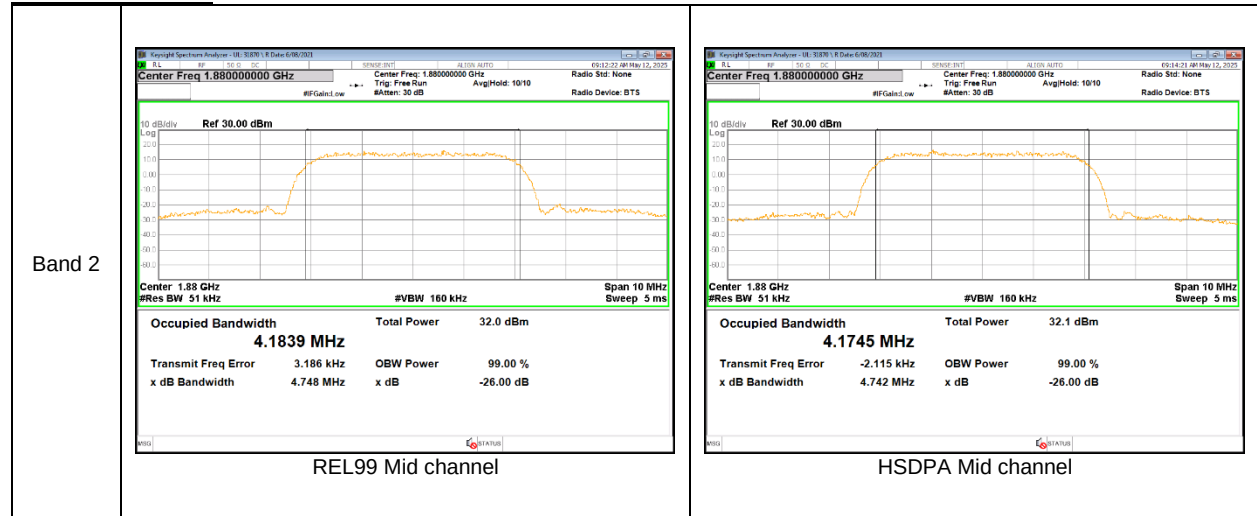
Band	BW	Modulation	Frequency [MHz]	99% BW (MHz)	-26dB BW (MHz)
LTE B2	20M	QPSK	1880.00	17.950	19.670
		16QAM		17.854	19.160
	15M	QPSK		13.425	14.820
		16QAM		13.421	14.500
	10M	QPSK		8.986	9.851
		16QAM		8.983	10.080
	5M	QPSK		4.504	5.402
		16QAM		4.503	5.195
	3M	QPSK		2.688	3.029
		16QAM		2.692	3.029
	1.4M	QPSK		1.086	1.280
		16QAM		1.091	1.313

8.3.1. OCCUPIED BANDWIDTH RESULT

GSM 1900

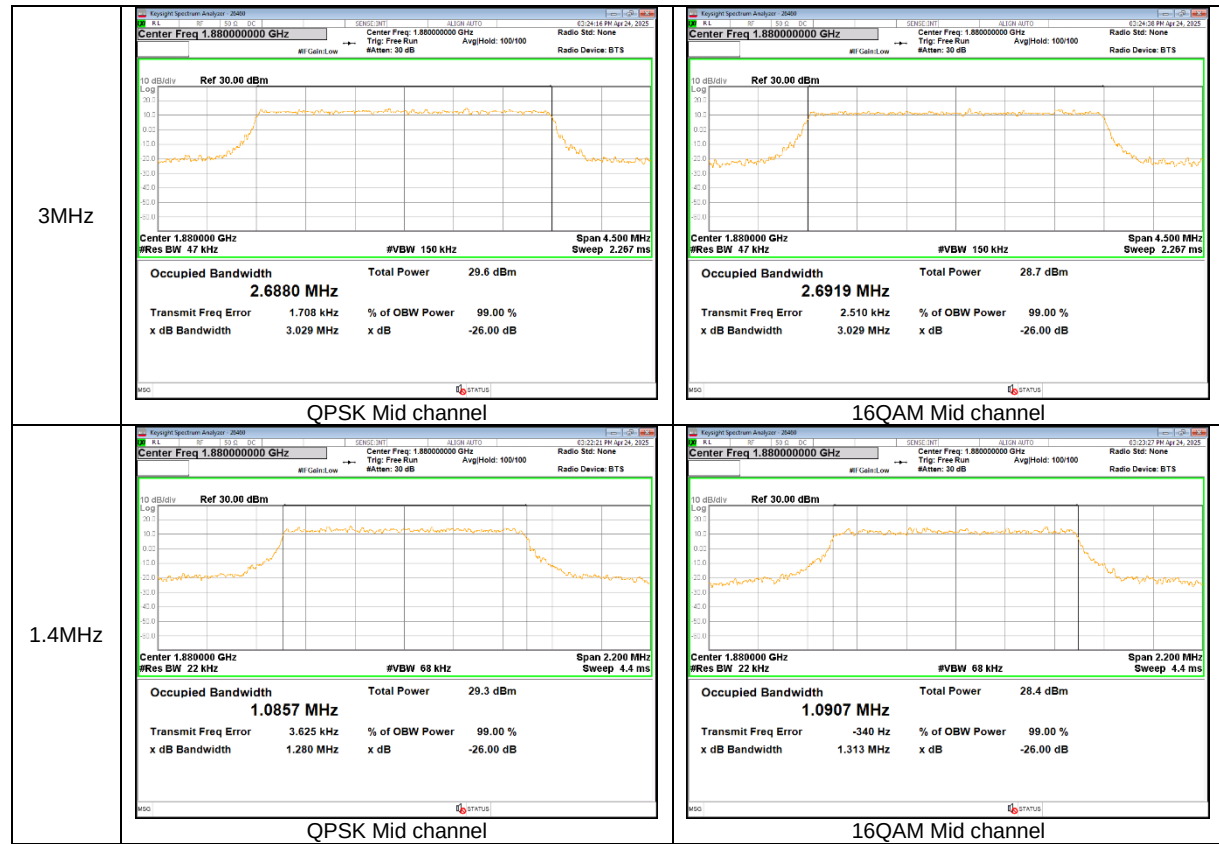


WCDMA Band 2



LTE Band 2





8.4. BAND EDGE EMISSIONS

RULE PART

FCC: §24.238

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The transmitter output was connected to CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

GSM

- a) Set the RBW = 1 - 5% of OBW(GSM1900 – 9.1kHz)
/ within 1 MHz from the edge of the authorized frequency block/band.
- b) Set the RBW = 1 MHz / above 1 MHz from the edge of the authorized frequency block/band.
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set span $\geq 2 \times$ OBW;
- e) Sweep time = 1S ;
- f) Detector = RMS;
- g) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- h) Trace Mode = Average;
- i) Add duty cycle correction factor (9dB)

WCDMA/LTE

- a) Set the RBW = 1 - 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
/ within 1 MHz from the edge of the authorized frequency block/band.
- b) Set the RBW = 1 MHz / above 1 MHz from the edge of the authorized frequency block/band.
- c) Set VBW $\geq 3 \times$ RBW;
- d) Set span $\geq 2 \times$ OBW;
- e) Sweep time = auto couple or Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
- f) Detector = RMS;
- g) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- h) Trace Mode = Average;

NOTE1

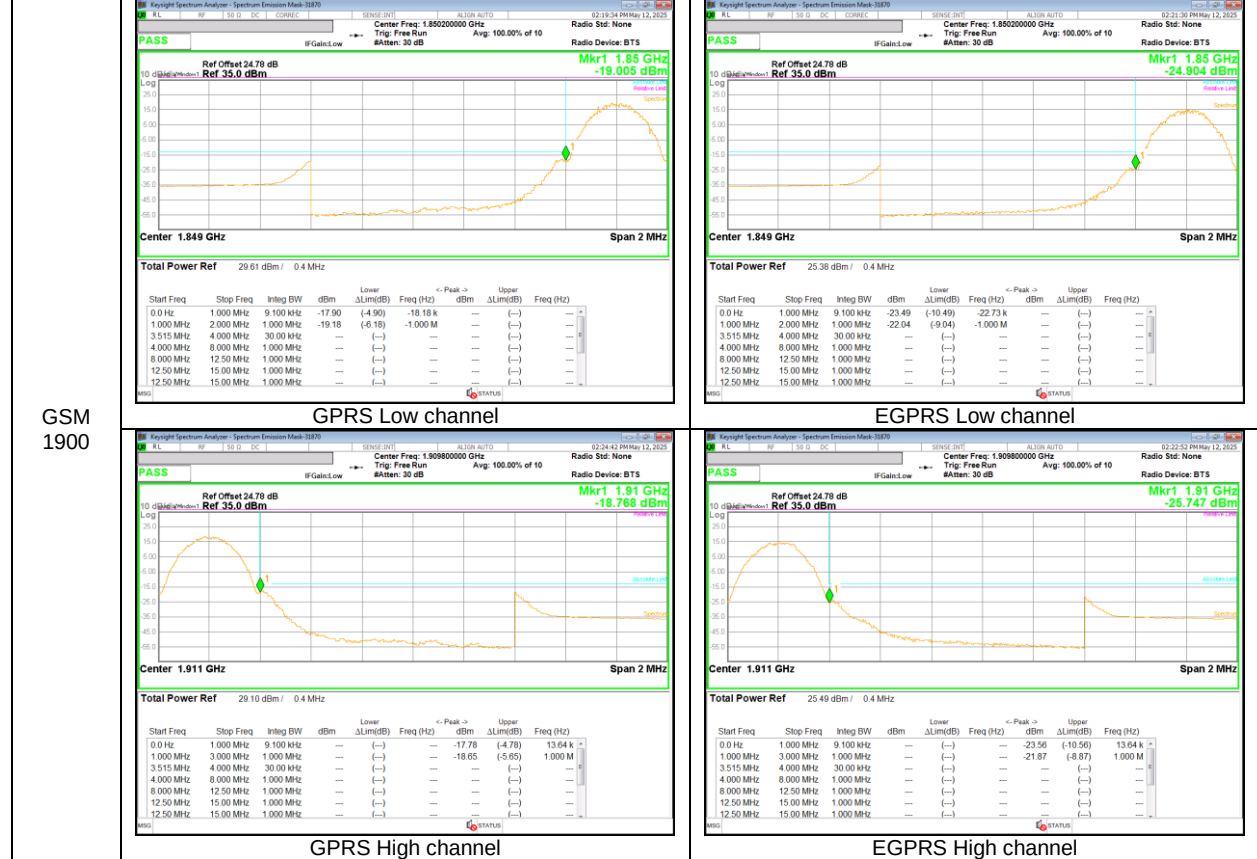
Note that the spurious emissions outside of the channel include narrowband signals. These signals are all below the -13dBm limits. Although the measurement bandwidth is less than the reference bandwidth of 1MHz no addental correction is applied as ANSI C63.26 section 4.2.3 only requires the correction to be applied when the OBW of the emission being measured is wider than the measurement bandwidth (Where the OBW of the signal under measurement is less than the RBW of the measuring instrument, no bandwidth correction or integration will be required.) Plots for low and high channels show the level of the emission measured with the reduced bandwidth and the level of the same emission measured using the integration method over the 1MHz reference bandwidth are very close, indicating the emissions are narrowband.

RESULTS

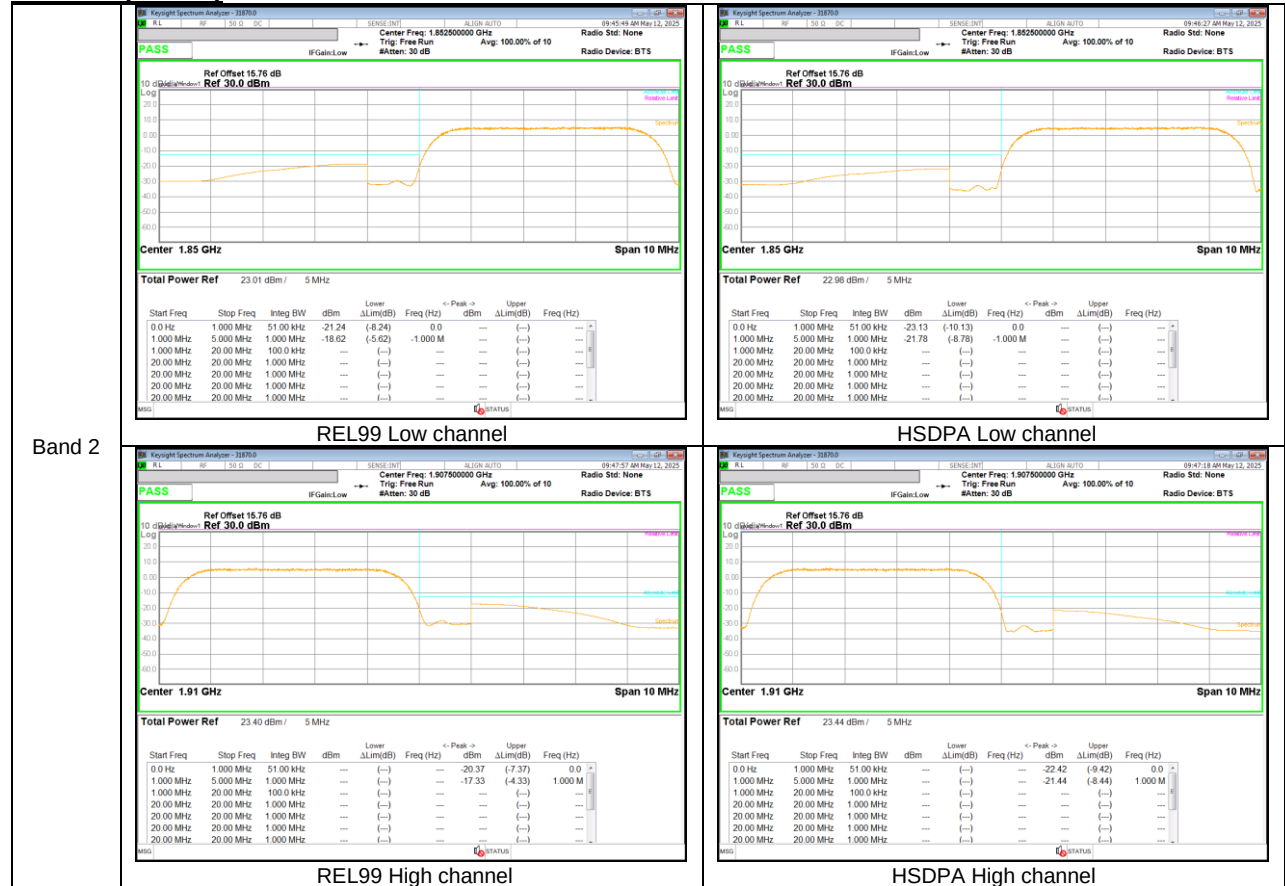
See the following pages.

8.4.1. BAND EDGE RESULT

GSM (ANT A)



WCDMA (ANT A)



LTE Band 2 (ANT A)

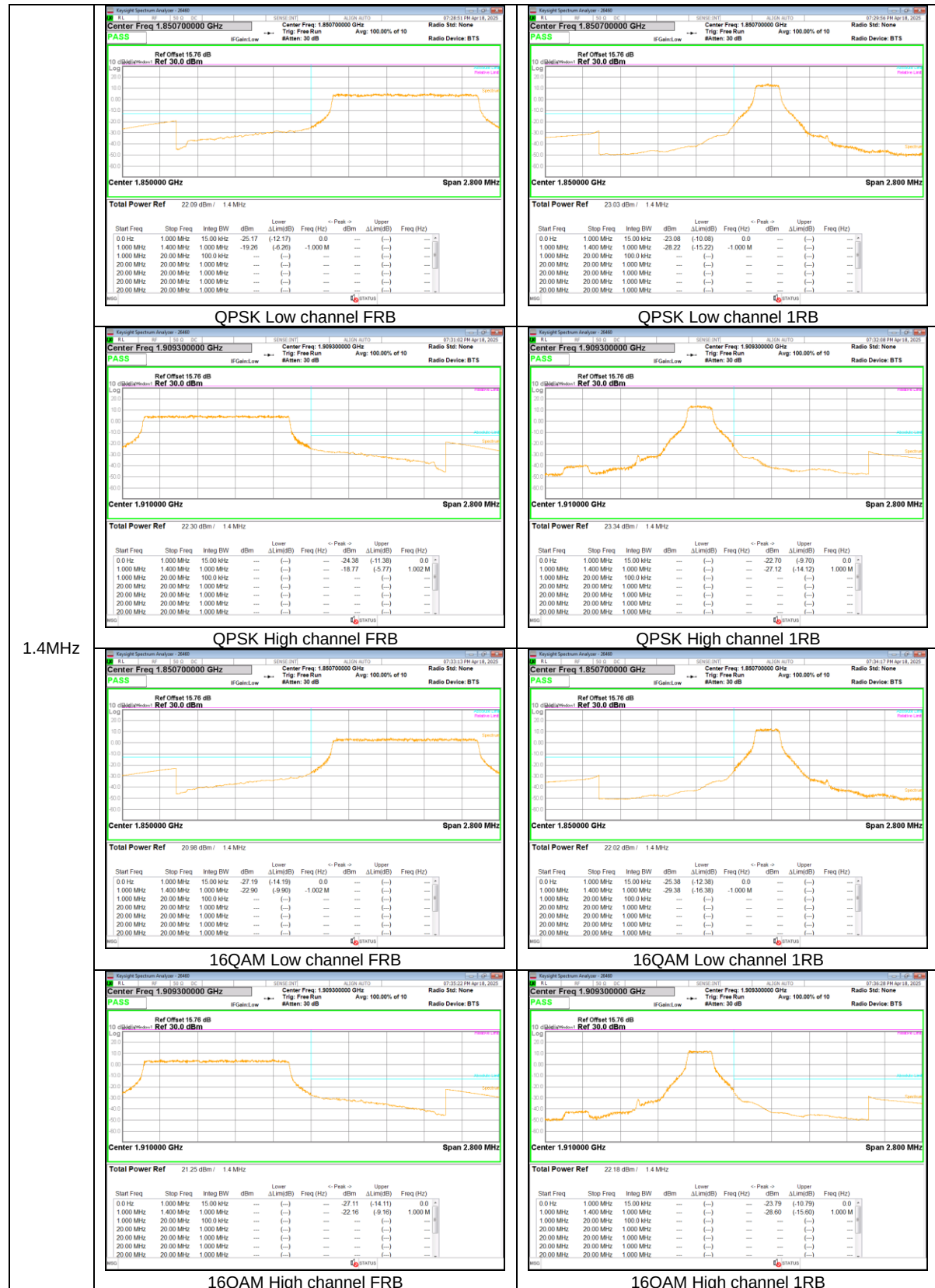












8.5. CONDUCTED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1051, §24.238

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold Mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 1 MHz for emissions above 1 GHz
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple or Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace Mode = average;

NOTE1

GSM : It was tested at GPRS as worst case (the highest output power and density).

UMTS: It was tested at REL 99 as worst case (the highest output power and density).

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

RESULTS

See the following pages.