



FCC CFR47 PART 15 SUBPART C

DTS Wireless LAN

CERTIFICATION TEST REPORT

FOR

WCDMA/LTE Tablet + BT/BLE, DTS/UNII a/b/g/n

MODEL NUMBER : SM-T378V

FCC ID: A3LSMT378V

REPORT NUMBER: 4788103295-E1V3

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Prepared for
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	09/14/17	Initial issue	Steven Kim
V2	09/21/17	Updated report to address TCB's questions	Junwhan Lee
V3	09/25/17	Updated report to address TCB's questions	Junwhan Lee

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1. ATTESTATION OF TEST RESULTS

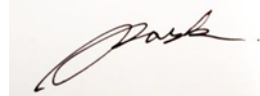
COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: WCDMA/LTE Tablet + BT/BLE, DTS/UNII a/b/g/n
MODEL NUMBER: SM-T378V
SERIAL NUMBER: R32J7008DTM (RADIATED);
R32J7008CBB (CONDUCTED)
DATE TESTED: AUG 14, 2017 - SEP 05, 2017

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

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:



SungGil Park
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Steven Kim
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

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

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. KDB 558074 D01 DTS Meas Guidance v04.
4. ANSI C63.10-2013.

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
☒	Chamber 2

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <http://www.iasonline.org/PDF/TL/TL-637.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:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

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	2.32 dB
Radiated Disturbance, Below 1GHz	4.14 dB
Radiated Disturbance, Above 1 GHz	5.97 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a WCDMA/LTE Tablet + BT/BLE, DTS/UNII a/b/g/n.
This test report addresses the DTS (WLAN) operational mode.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted average output power as follows:

Frequency Range [MHz]	Mode	Output Power [dBm]	Output Power [mW]
2412 - 2462	802.11b	15.93	39.17
	802.11g	12.97	19.82
	802.11n HT20	11.86	15.35

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antennas, with a antenna's maximum gain of -0.24 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission below 1GHz and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Radiated emission above 1GHz was performed with the EUT set to transmit low/mid/high channels.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20 mode: MCS0

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA12JWE	RT4J221eS/B- E	N/A
Data Cable	SAMSUNG	EP-DG915UWZ	N/A	N/A
Earphone	SAMSUNG	EHS64AVFWE	N/A	N/A

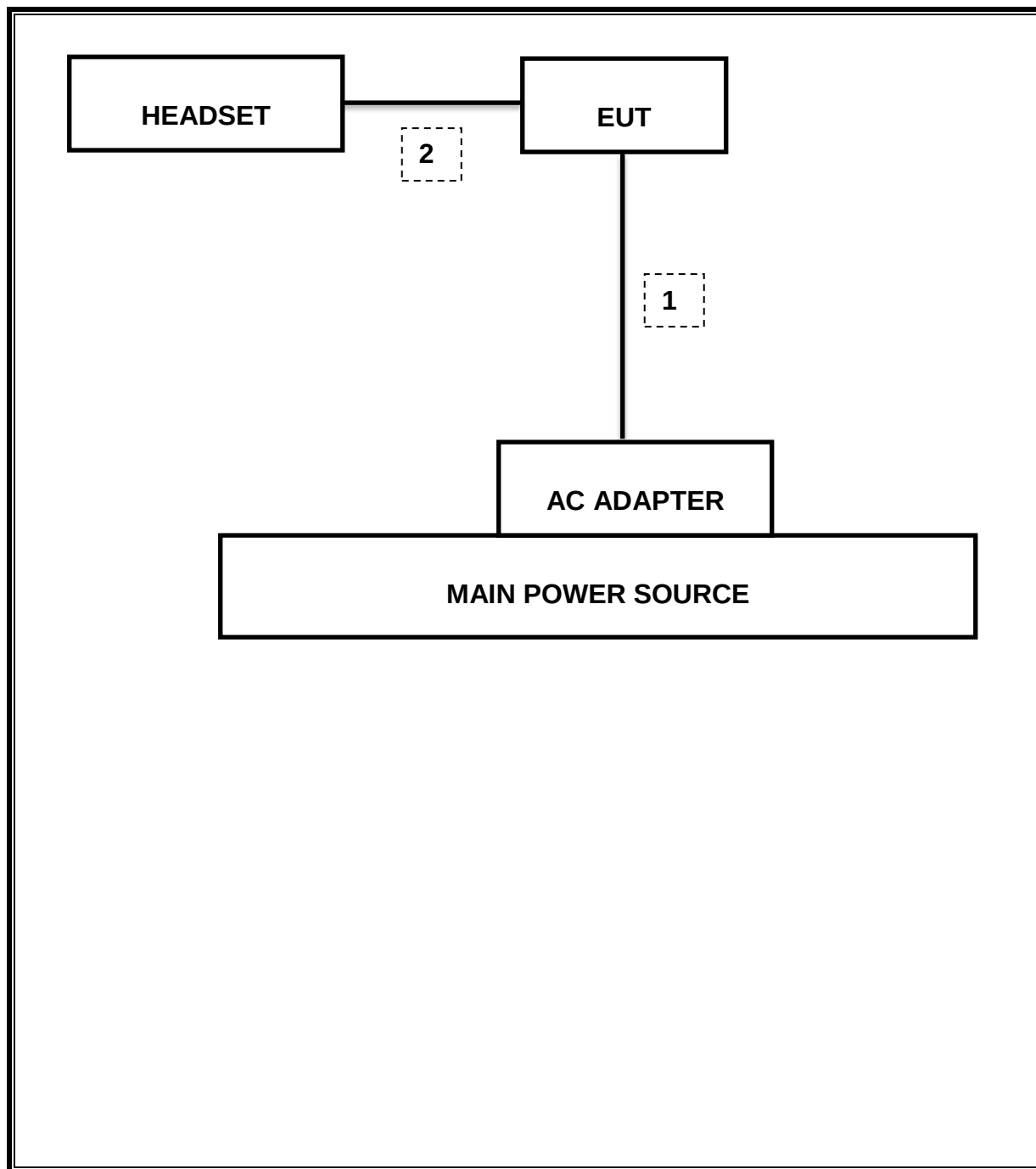
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.1m	N/A
2	Audio	2	Mini-Jack	Unshielded	1.1m	N/A

TEST SETUP

The EUT is a stand-alone unit during the tests.
Test software in hidden menu exercised the EUT to enable DTS mode.

SETUP DIAGRAM FOR TESTS



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, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	10-14-18
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	04-14-19
Antenna, Horn, 18 GHz	ETS	3115	00167211	10-14-18
Antenna, Horn, 18 GHz	ETS	3115	00161451	03-10-19
Antenna, Horn, 18 GHz	ETS	3117	00168724	05-31-19
Antenna, Horn, 18 GHz	ETS	3117	00168717	05-31-19
Antenna, Horn, 40 GHz	ETS	3116C	00166155	11-30-17
Antenna, Horn, 40 GHz	ETS	3116C-PA	00168841	12-15-17
Attenuator / Switch driver	HP	11713A	3748A04272	N/A
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-09-18
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-07-18
Preamplifier	ETS	3115-PA	00167475	08-09-18
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-08-18
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	08-08-18
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	08-08-18
Average Power Sensor	Agilent / HP	U2000	MY54270007	08-08-18
Bluetooth Tester	TESCOM	TC-3000C	3000C000546	08-07-18
Combiner	WEINSCHL	1575	2152	08-08-18
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-08-18
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-08-18
EMI Test Receive, 3 GHz	R&S	ESR3	101832	08-07-18
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	08-08-18
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	015	08-08-18
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	08-08-18
High Pass Filter 3GHz	Micro-Tronics	HPM17543	015	08-08-18
High Pass Filter 6GHz	Micro-Tronics	HPM17542	009	08-08-18
High Pass Filter 6GHz	Micro-Tronics	HPM17542	016	08-08-18
LISN	R&S	ENV-216	101837	08-09-18
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	11-25-17
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

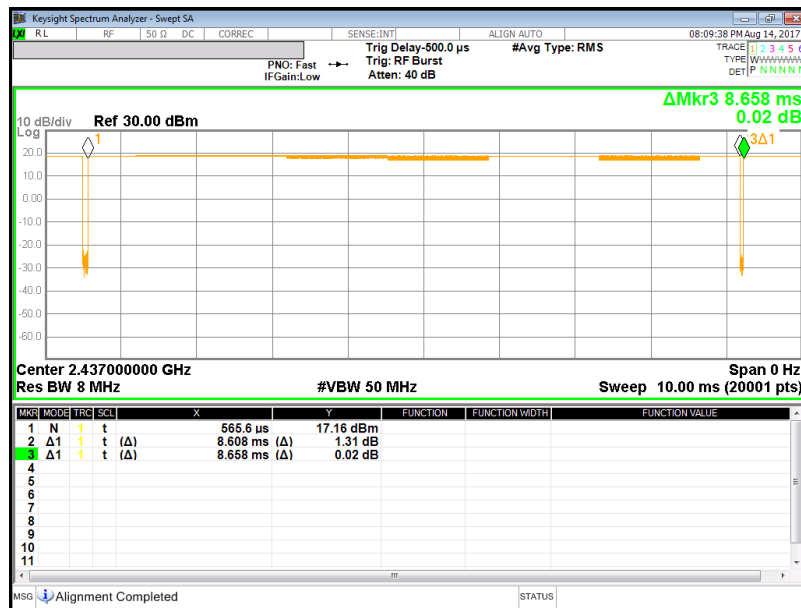
7. REFERENCE MEASUREMENT RESULTS

7.1. ON TIME AND DUTY CYCLE RESULTS

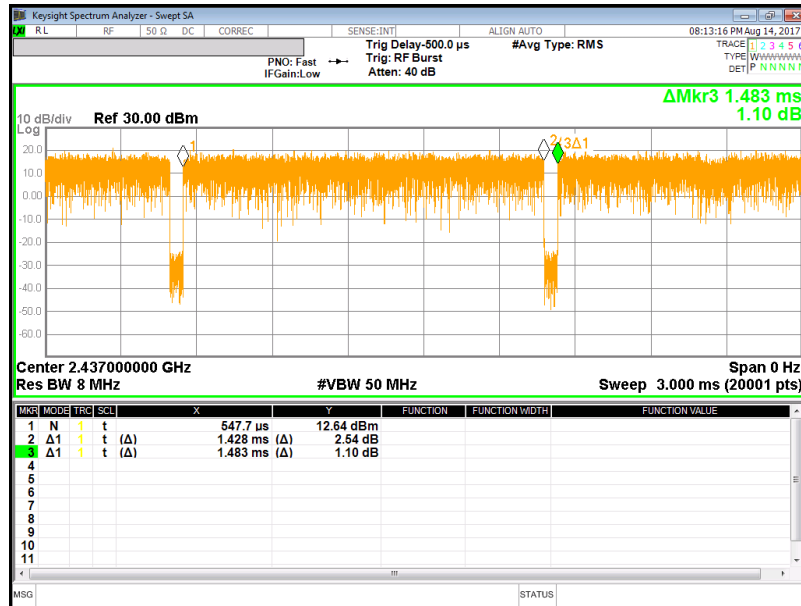
LIMITS

None; for reporting purposes only.

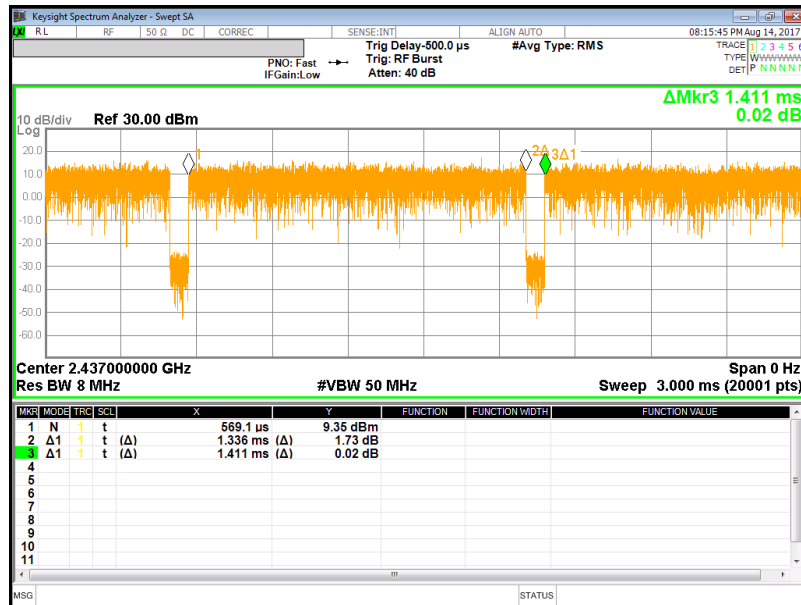
Mode	ON Time B [msec]	Period [msec]	Duty Cycle x [linear]	Duty Cycle [%]	Duty Cycle Correction Factor [dB]	1/T Minimum VBW [kHz]
2400MHz Bands						
802.11b	8.608	8.658	0.994	99.4%	0.00	0.010
802.11g	1.428	1.483	0.963	96.3%	0.16	0.700
802.11n HT20	1.336	1.411	0.947	94.7%	0.24	0.749



[802.11b]



[802.11g]



[802.11n]

8. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	8.557 MHz
2.1051, 15.247 (d)	Band Edge / Conducted Spurious Emission	-30dBc		Pass	-29.280 dBm
15.247 (b)(3)	TX conducted output power	<30dBm		Pass	15.93 dBm
15.247 (e)	PSD	<8dBm		Pass	-14.982 dBm
15.207 (a)	AC Power Line conducted emissions	Section 10	Power Line conducted	Pass	47.47 dBuV (Pk)
15.205, 15.209	Radiated Spurious Emission	< 74dBuV/m	Radiated	Pass	71.83 dBuV/m (Pk)

9. ANTENNA PORT TEST RESULTS

9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

Reference to KDB 558074 D01 DTS Meas Guidance v04: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

9.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Minimum Limit [MHz]
Low	2412	9.018	0.5
Mid	2437	9.062	0.5
High	2462	8.557	0.5
Worst		8.557	0.5

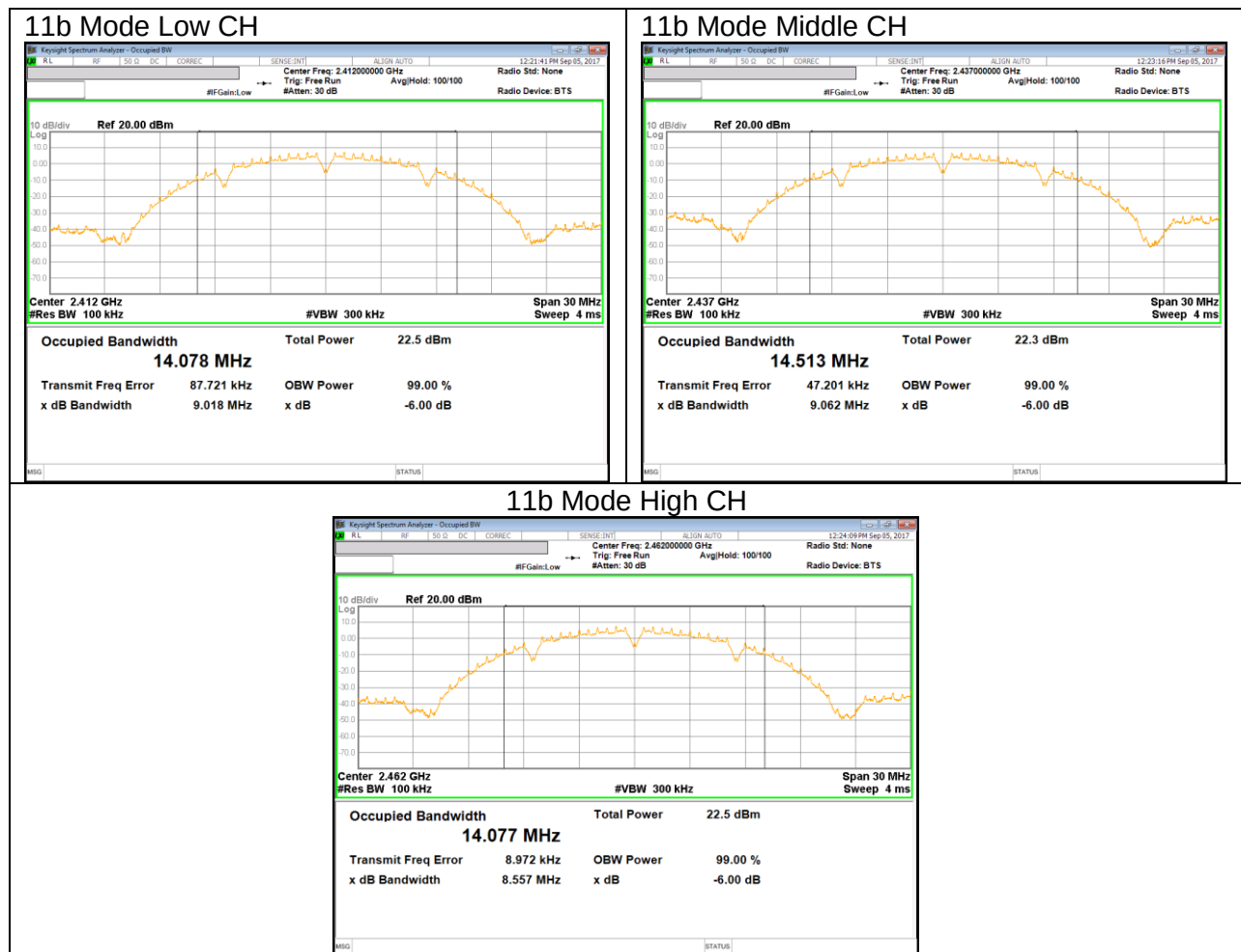
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Minimum Limit [MHz]
Low	2412	15.070	0.5
Mid	2437	15.640	0.5
10	2457	15.440	0.5
High	2462	15.250	0.5
Worst		15.070	0.5

9.1.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

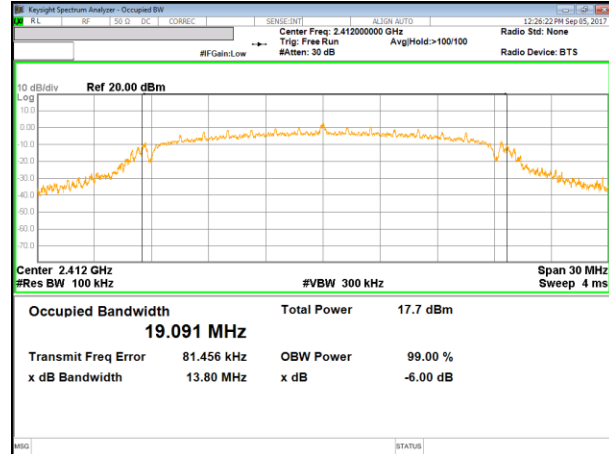
Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Minimum Limit [MHz]
Low	2412	13.800	0.5
Mid	2437	15.060	0.5
10	2457	15.080	0.5
High	2462	11.310	0.5
Worst		11.310	0.5

9.1.4. 6 dB BANDWIDTH PLOTS

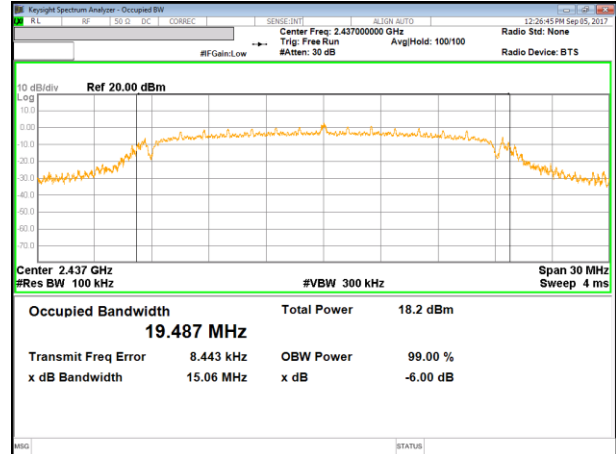




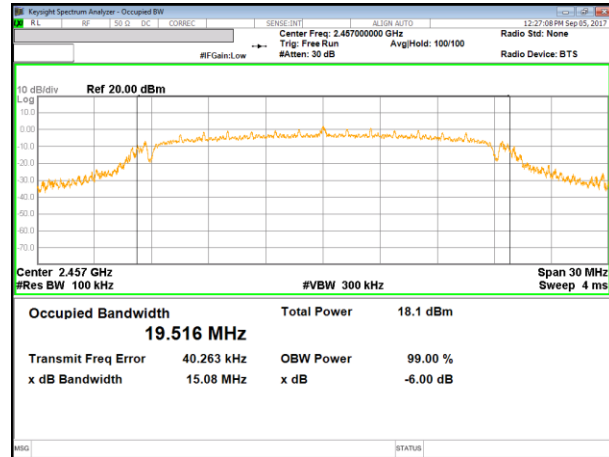
11n HT20 Mode Low CH



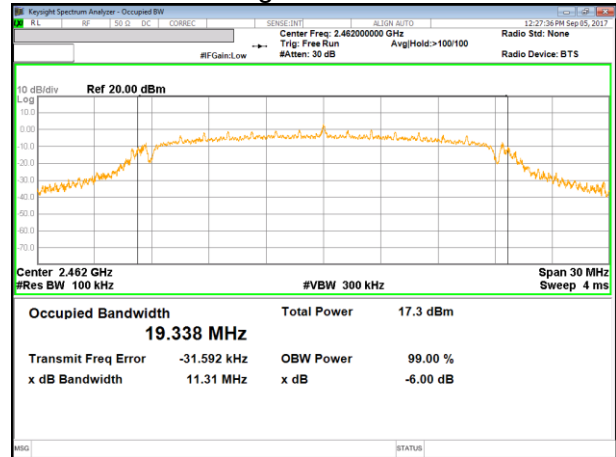
11n HT20 Mode Middle CH



11n HT20 Mode 10 CH



11n HT20 Mode High CH



9.2. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss was entered as an offset in the power meter to allow for direct reading of power.

Output power measurement was performed utilizing the “§9.2.3.1 AVGPM” under KDB558074 D01 DTS Meas Guidance v04.

Duty cycle correction factor is already added to the average output power results for duty cycle factor < 98%. (802.11g, 802.11n mode)

RESULTS

9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	Max Power [dBm]
Low	2412	-0.24	30.00	30.00
Mid	2437	-0.24	30.00	30.00
High	2462	-0.24	30.00	30.00

Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	15.92	15.92	30.00	-14.08
Mid	2437	15.84	15.84	30.00	-14.16
High	2462	15.93	15.93	30.00	-14.07
Worst			15.93	30.00	-14.07

9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	Max Power [dBm]
Low	2412	-0.24	30.00	30.00
Mid	2437	-0.24	30.00	30.00
10	2457	-0.24	30.00	30.00
High	2462	-0.24	30.00	30.00

Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	12.56	12.56	30.00	-17.44
Mid	2437	12.97	12.97	30.00	-17.03
10	2457	12.88	12.88	30.00	-17.12
High	2462	12.18	12.18	30.00	-17.82
Worst			12.97	30.00	-17.03

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	Max Power [dBm]
Low	2412	-0.24	30.00	30.00
Mid	2437	-0.24	30.00	30.00
10	2457	-0.24	30.00	30.00
High	2462	-0.24	30.00	30.00

Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	11.40	11.40	30.00	-18.60
Mid	2437	11.86	11.86	30.00	-18.14
10	2457	11.73	11.73	30.00	-18.27
High	2462	11.09	11.09	30.00	-18.91
Worst			11.86	30.00	-18.14

9.3. PSD

LIMITS

FCC §15.247

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST PROCEDURE

Power Spectral Density was performed utilizing the “Method §10.3 AVGPS-1 (802.11 b mode) and §10.5 AVGPS-2(802.11 g/n mode)” under KDB558074 D01 DTS Meas Guidance v04.

RESULTS

9.3.1. 802.11b MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-15.023	0.00	-15.023	8.00	-23.023
Mid	2437	-15.651	0.00	-15.651	8.00	-23.651
High	2462	-14.982	0.00	-14.982	8.00	-22.982

9.3.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

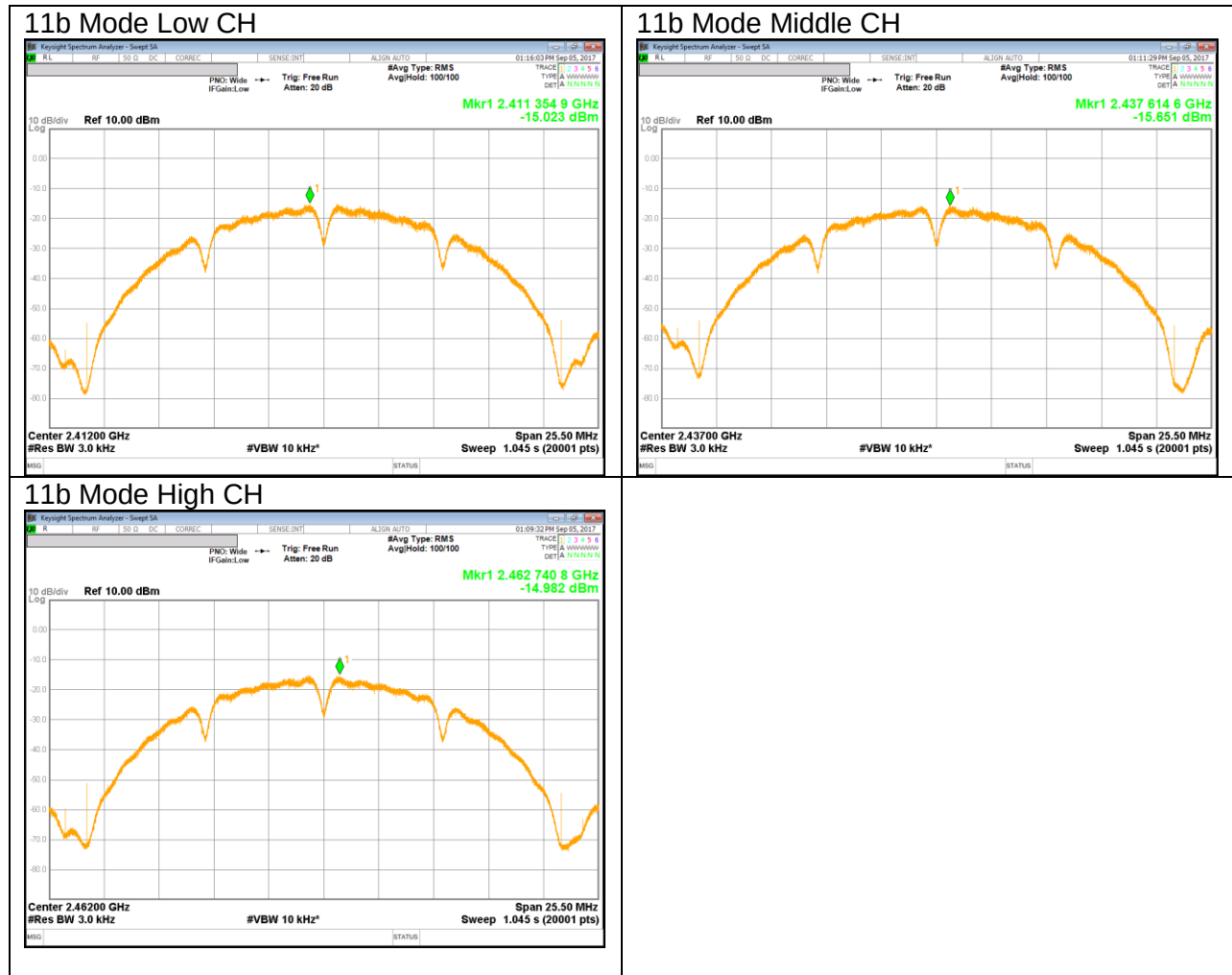
Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-20.245	0.16	-20.081	8.00	-28.245
Mid	2437	-20.197	0.16	-20.033	8.00	-28.197
10	2457	-20.320	0.16	-20.156	8.00	-28.320
High	2462	-20.771	0.16	-20.607	8.00	-28.771

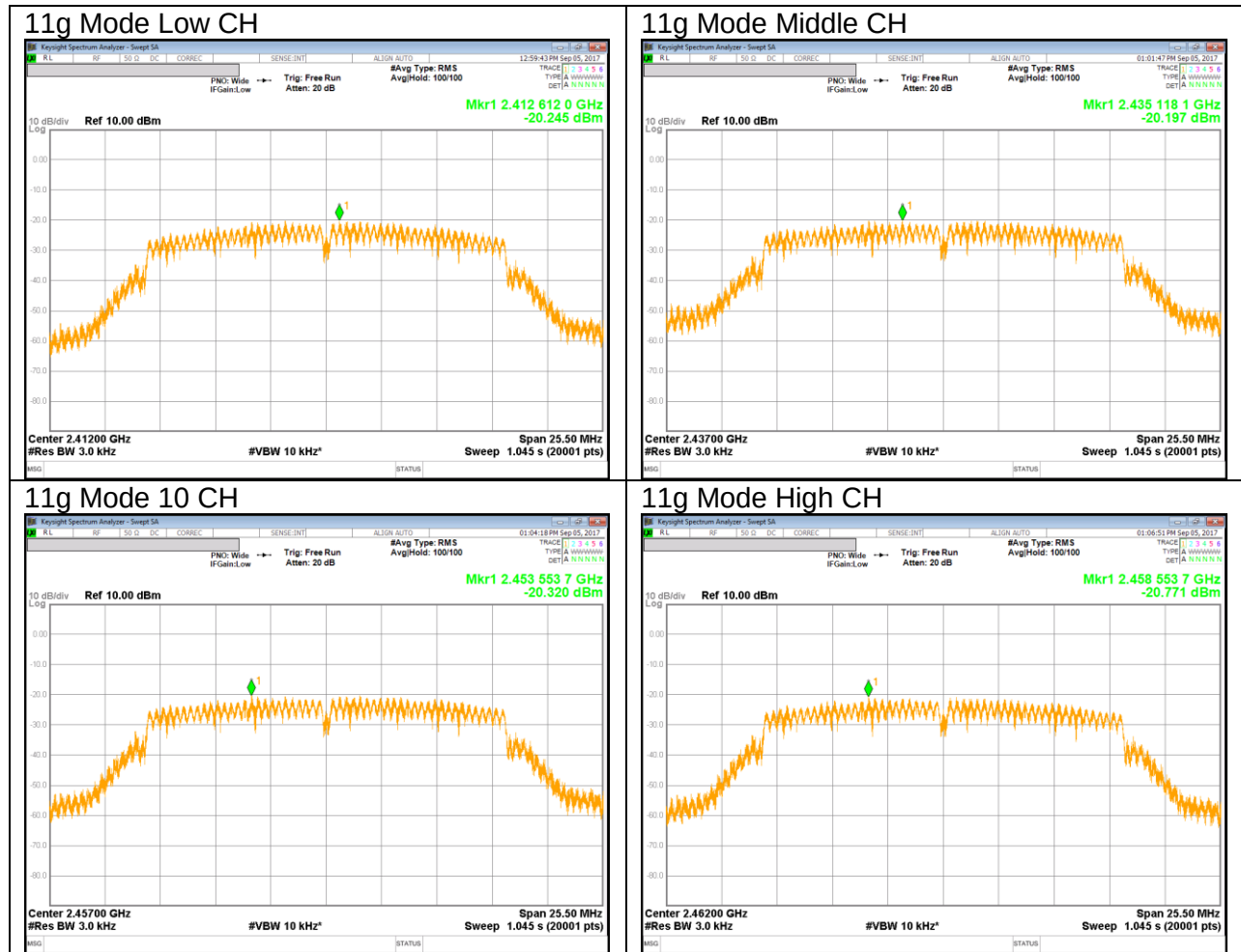
9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

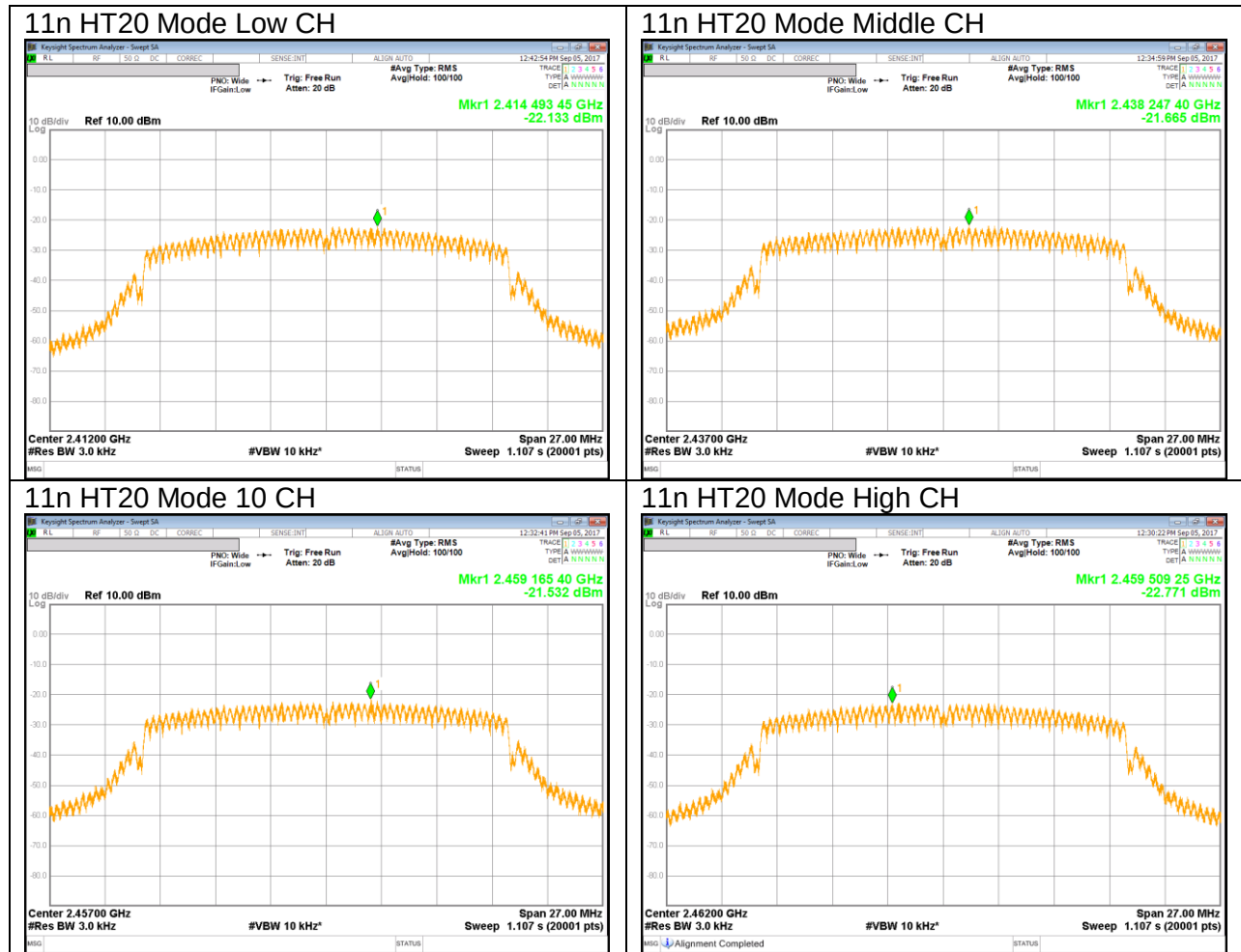
PSD Results

Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-22.133	0.24	-21.896	8.00	-30.133
Mid	2437	-21.665	0.24	-21.428	8.00	-29.665
10	2457	-21.532	0.24	-21.295	8.00	-29.532
High	2462	-22.771	0.24	-22.534	8.00	-30.771

9.3.4. PSD PLOTS







9.4. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

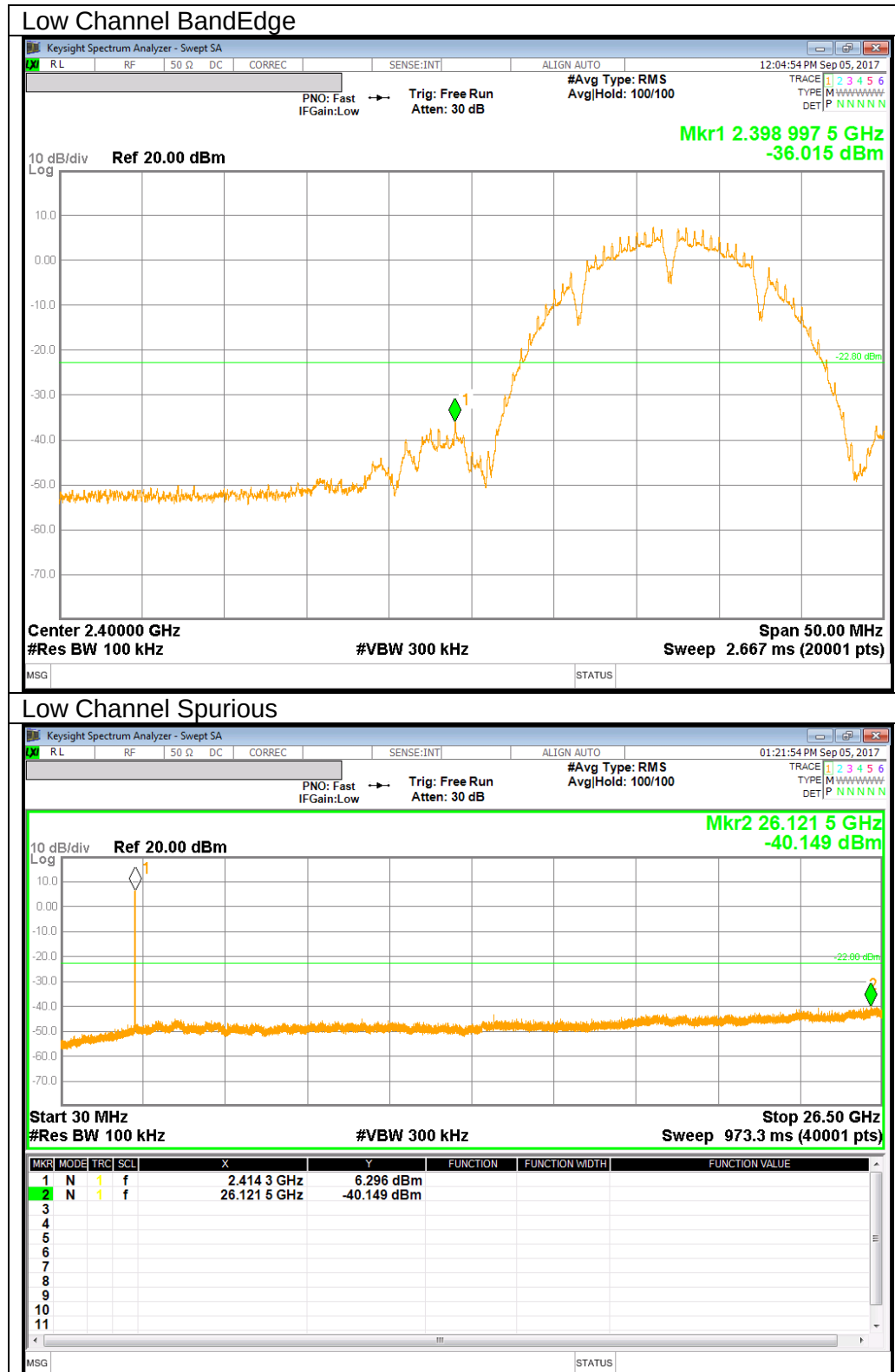
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

TEST PROCEDURE

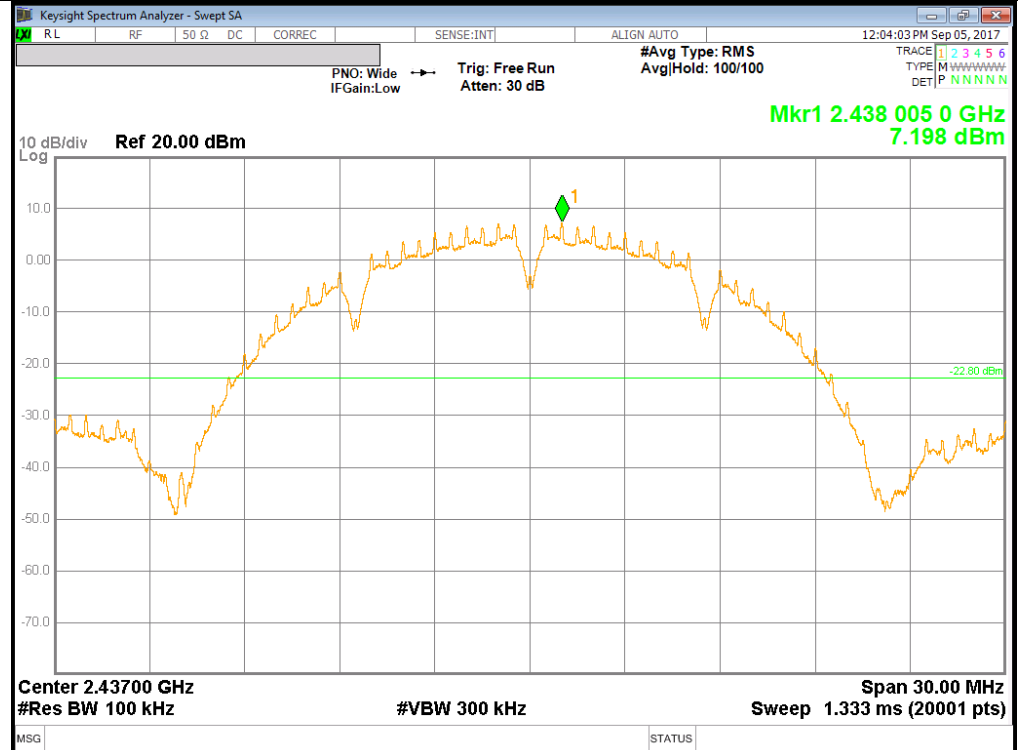
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

RESULTS

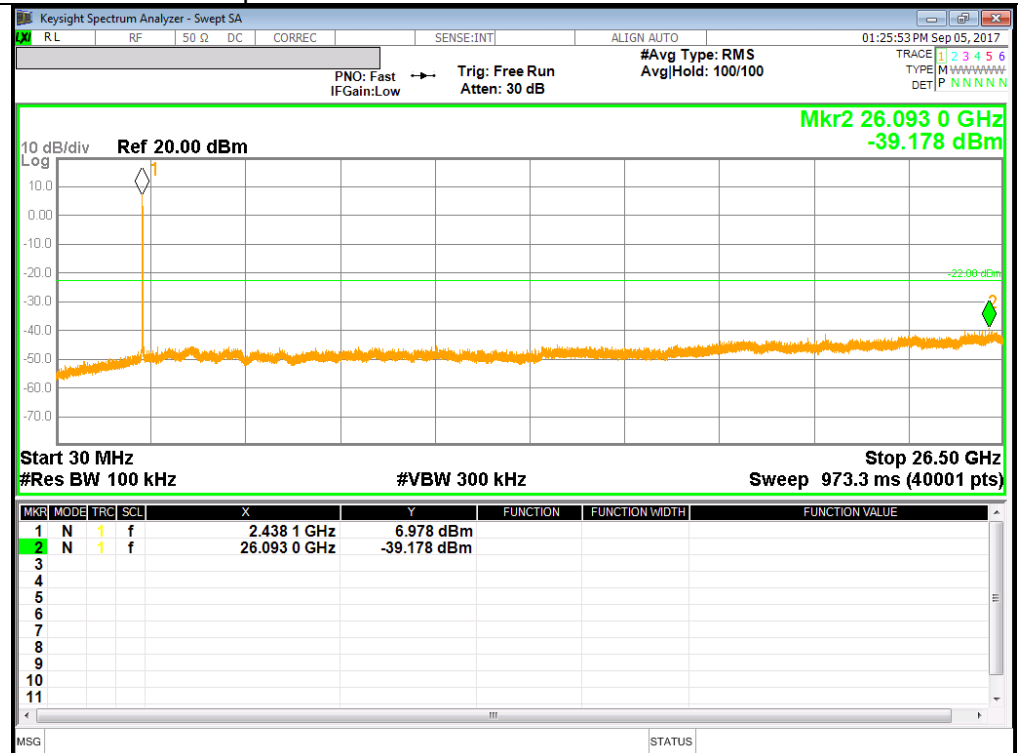
9.4.1. 802.11b MODE IN THE 2.4 GHz BAND



Middle Channel BandEdge

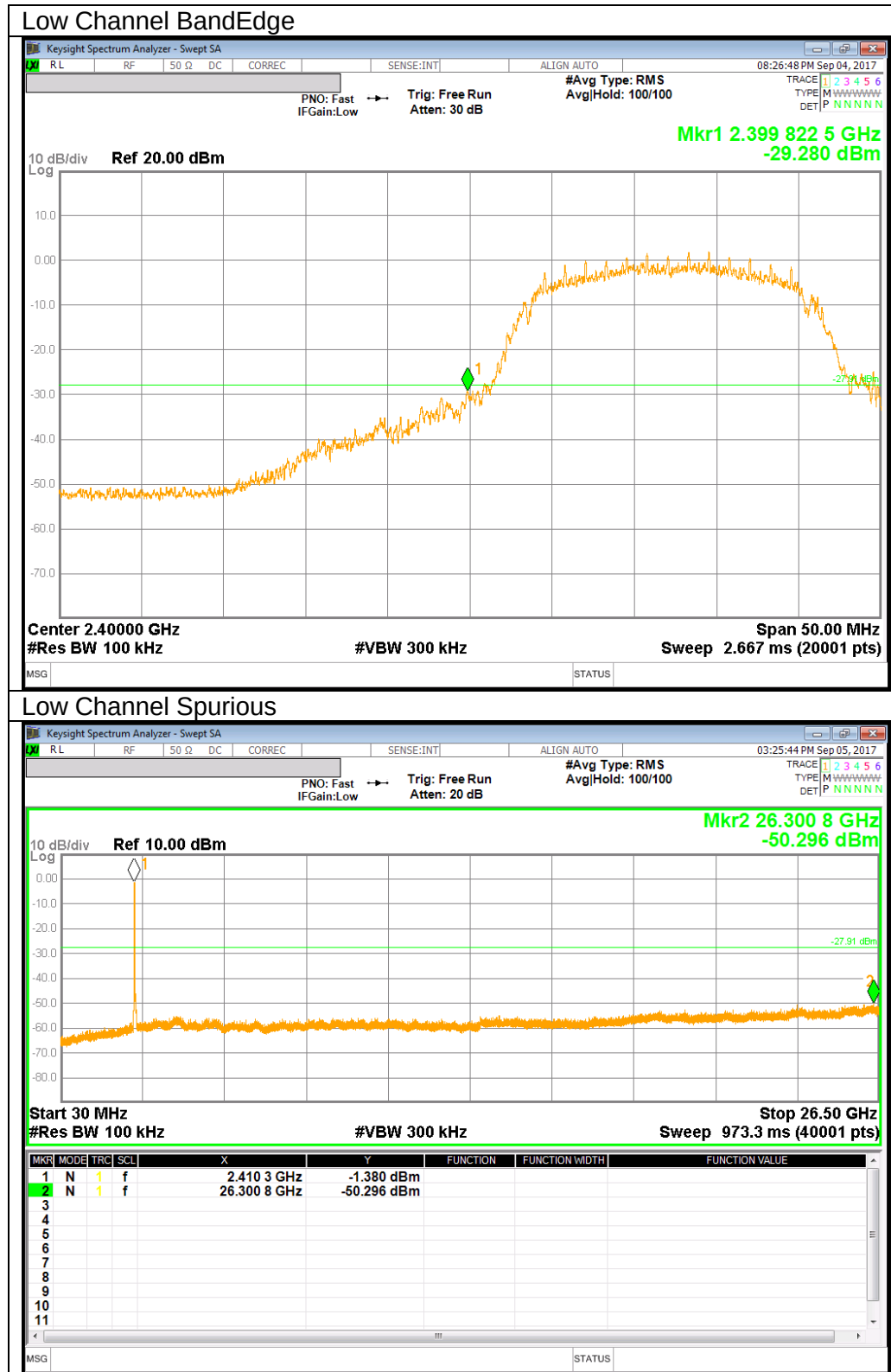


Middle Channel Spurious

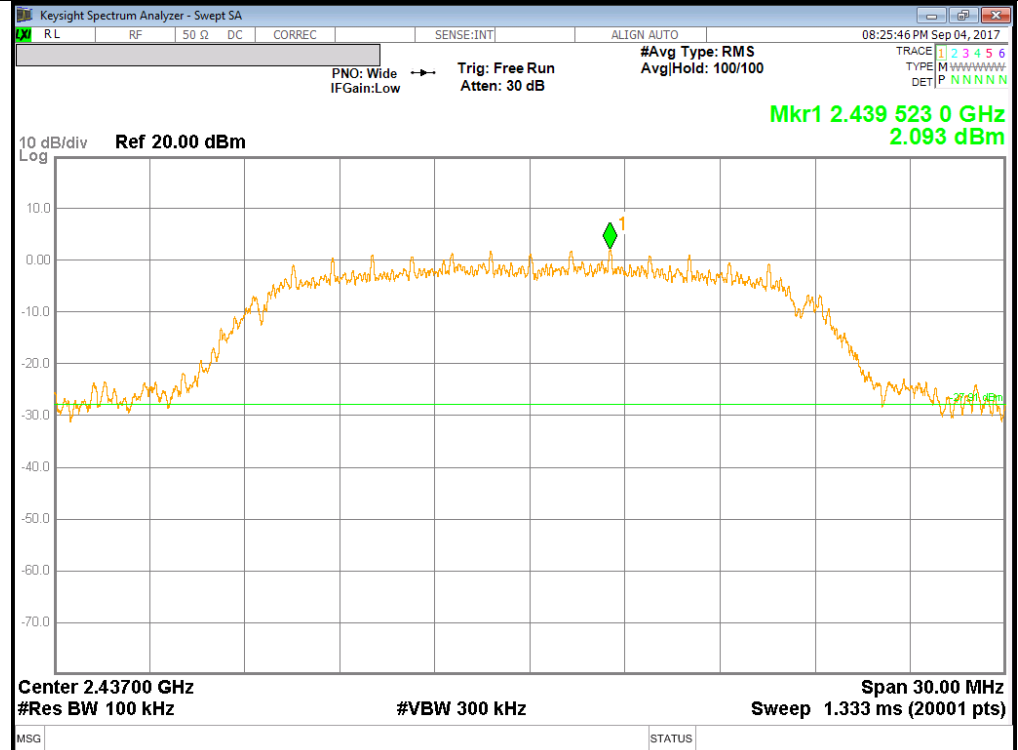




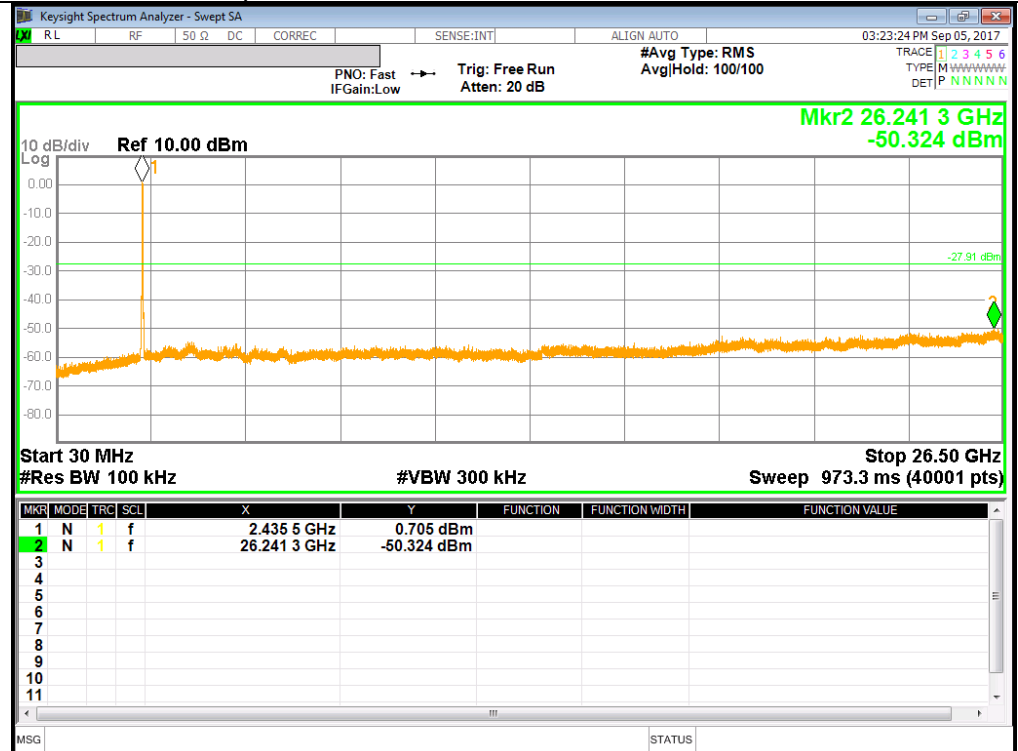
9.4.2. 802.11g MODE IN THE 2.4 GHz BAND



Middle Channel BandEdge



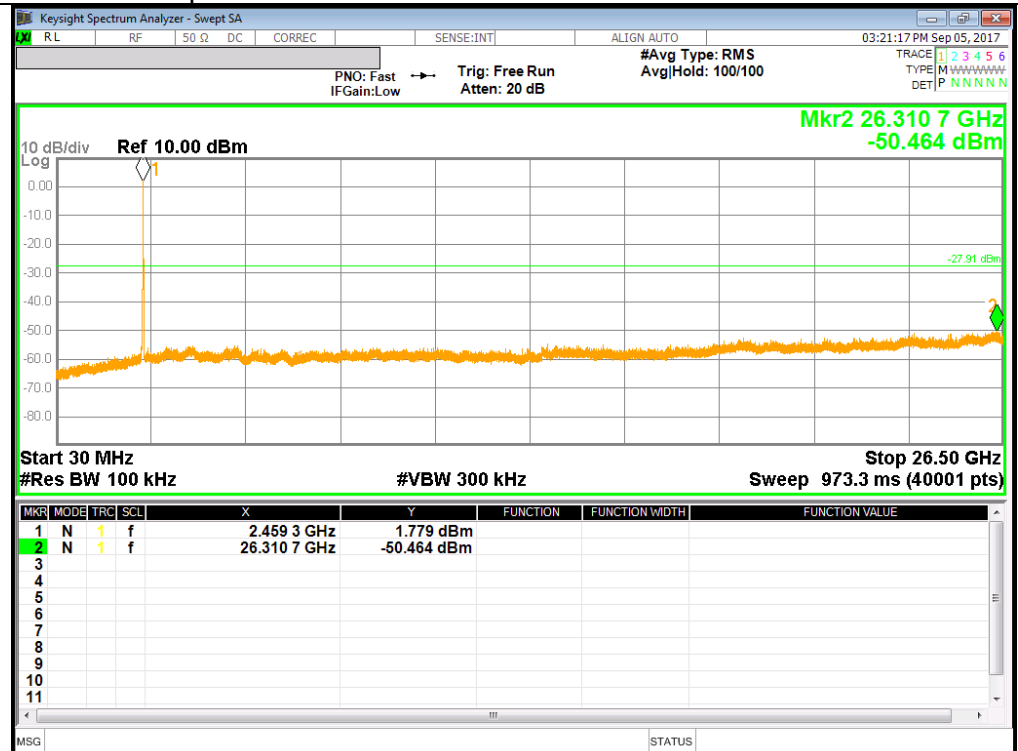
Middle Channel Spurious

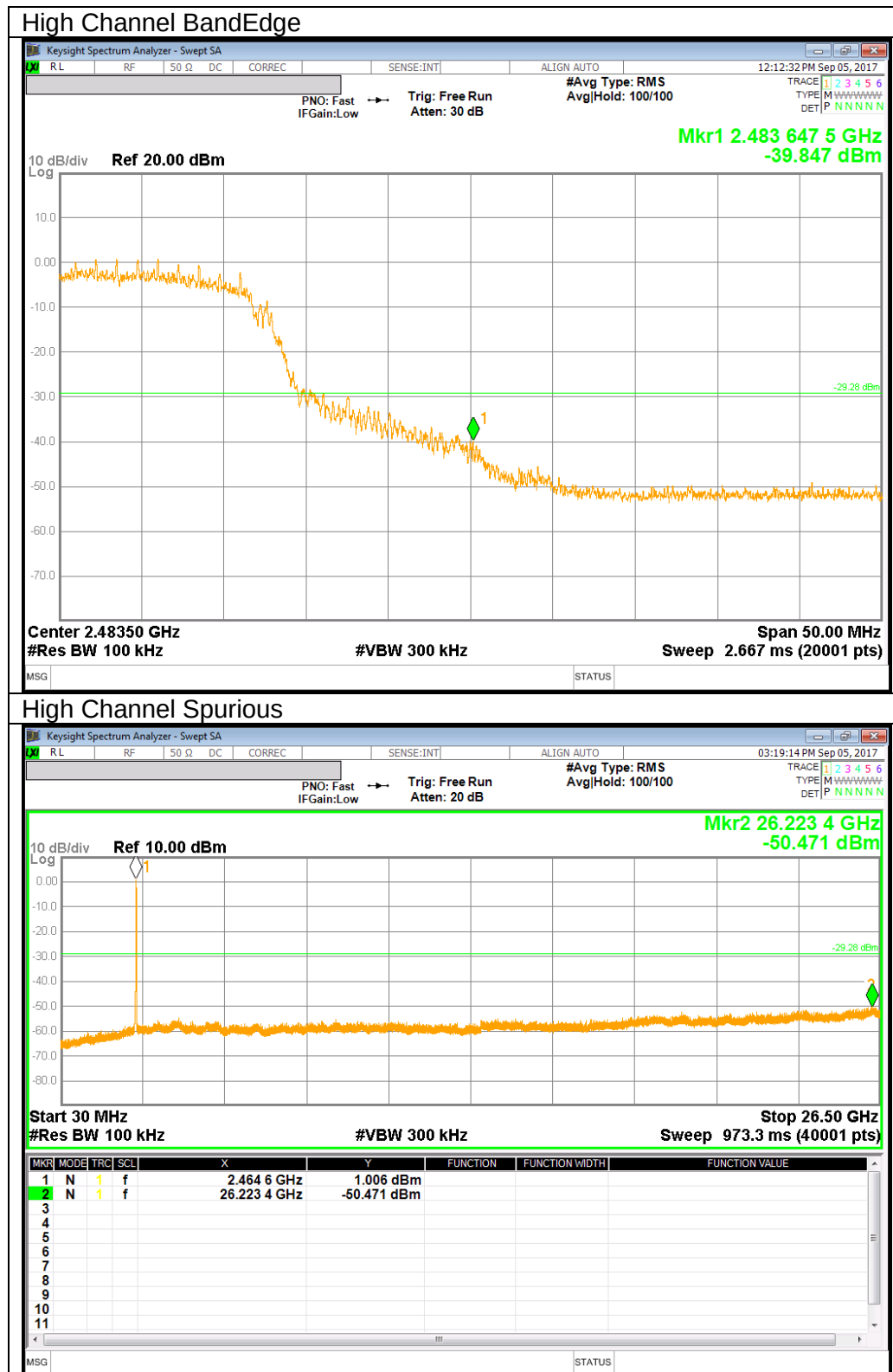


10 Channel BandEdge

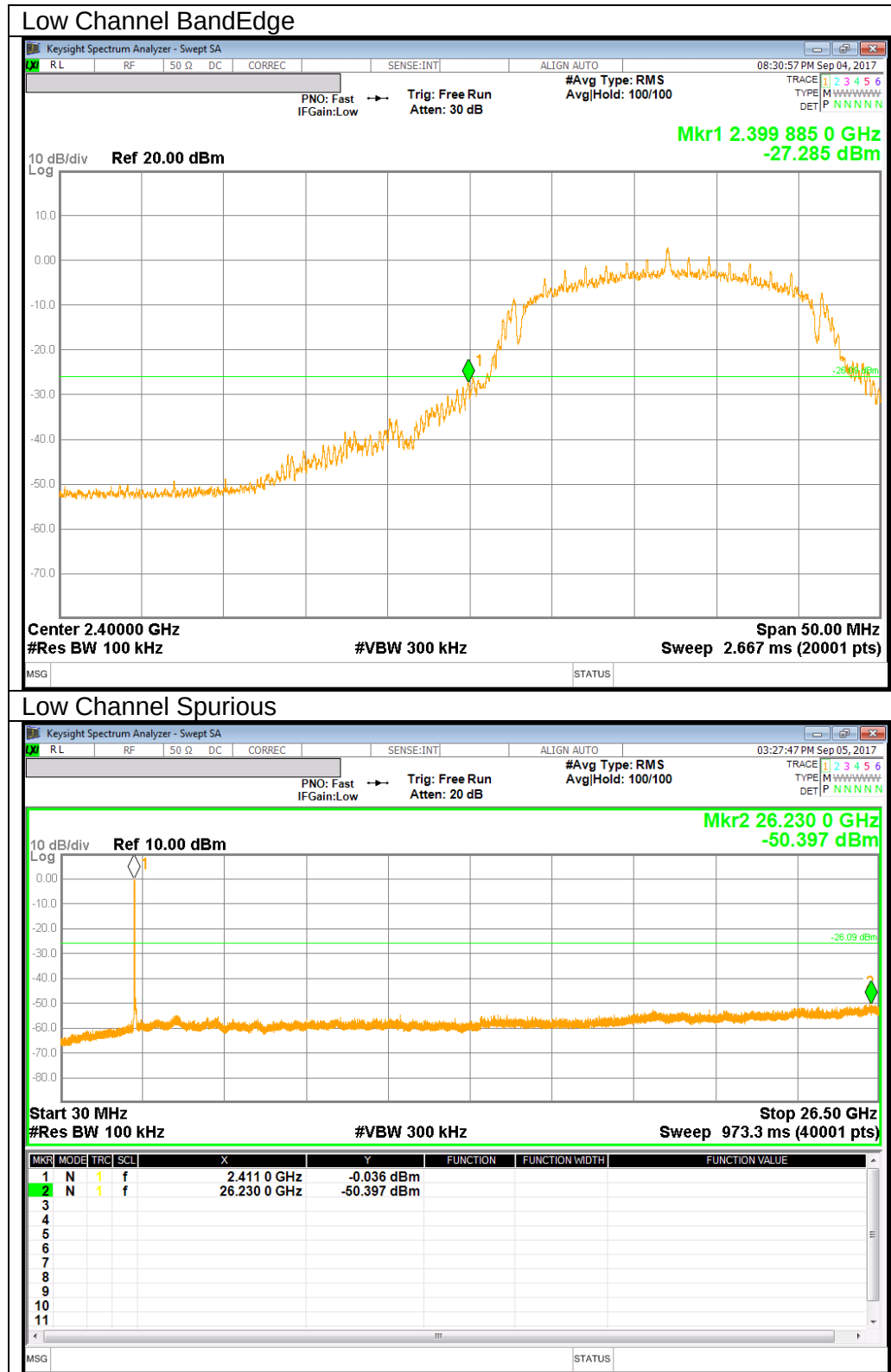


10 Channel Spurious

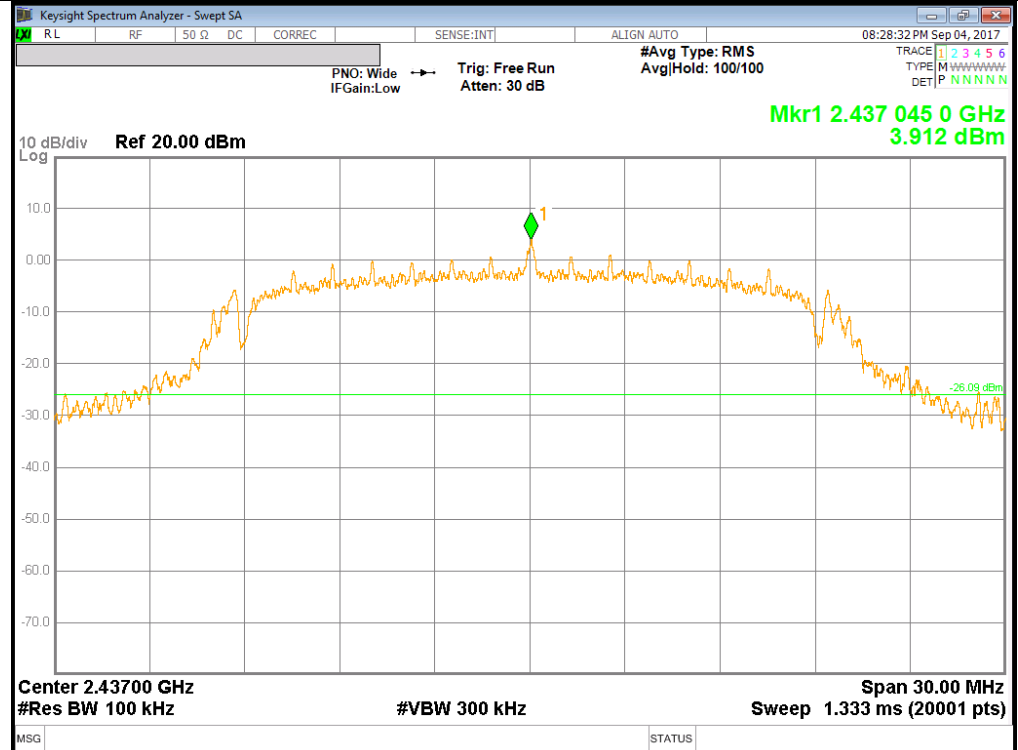




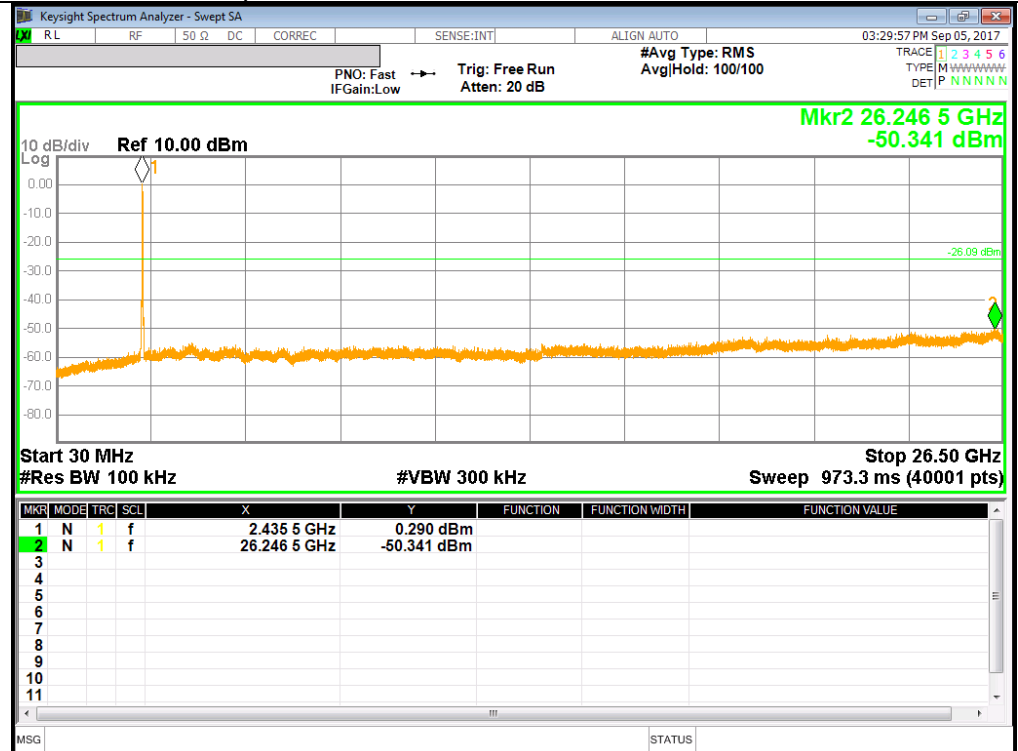
9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND



Middle Channel BandEdge



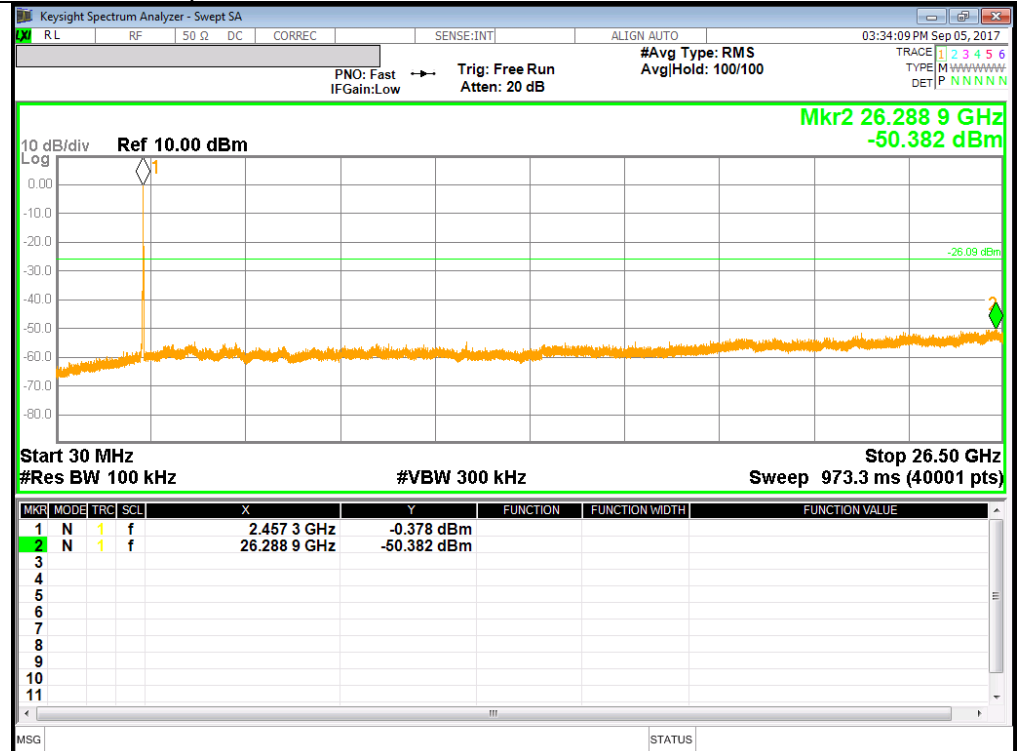
Middle Channel Spurious

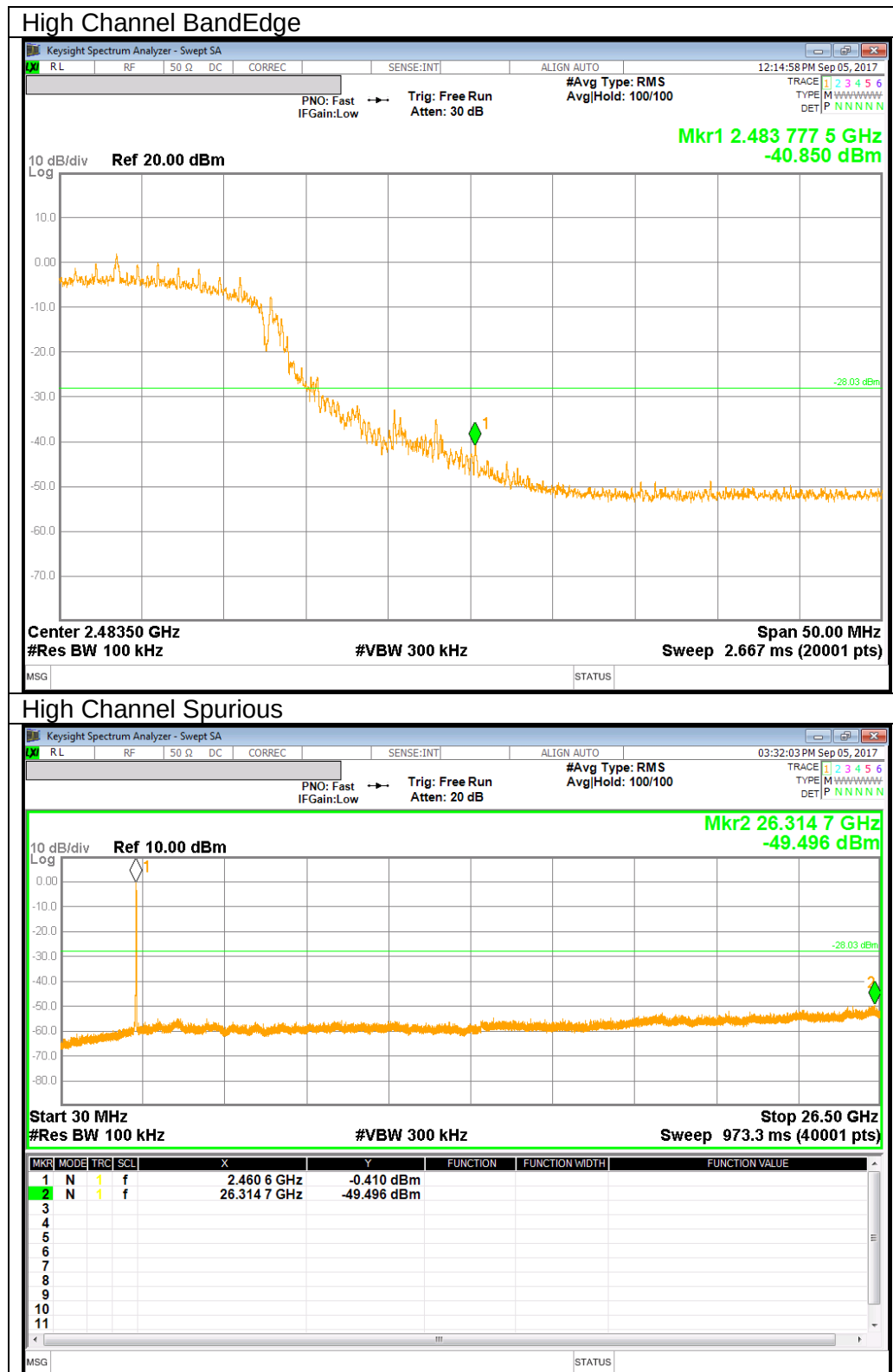


10 Channel BandEdge



10 Channel Spurious





10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restricted bandedge, Final detection of spurious harmonic emissions)
Duty cycle factor= $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0.16dB; N mode = 0.24dB.

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

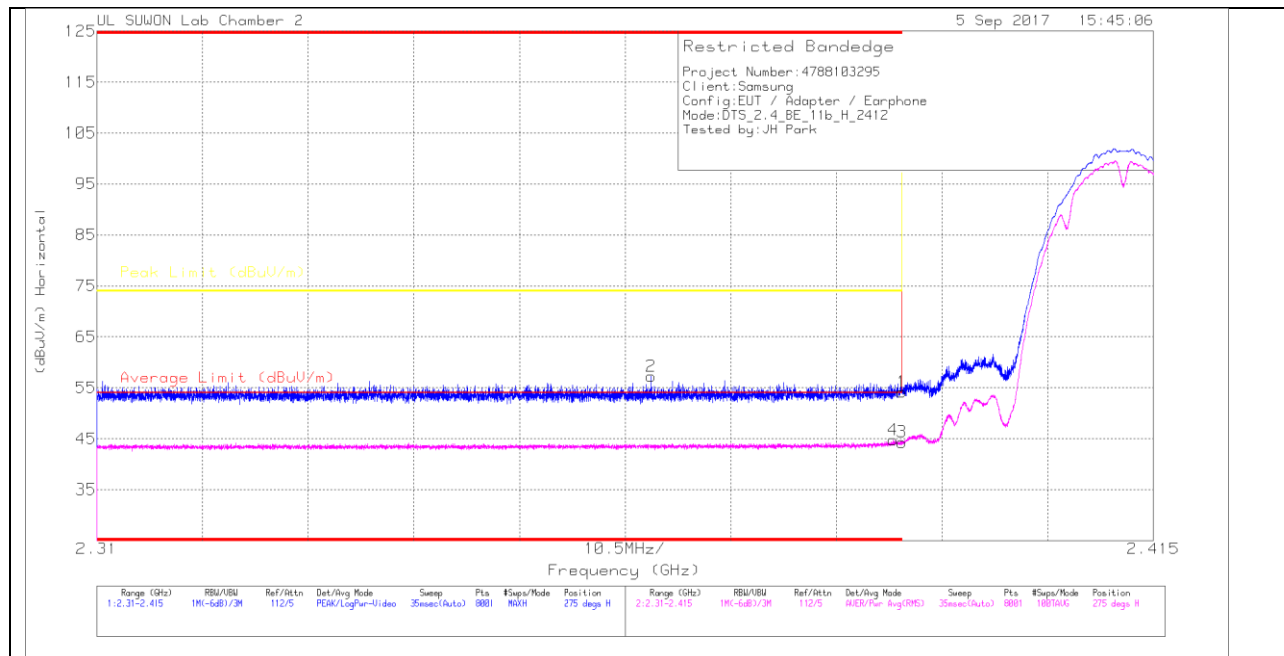
Note : Emission was pre-scanned from 9KHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

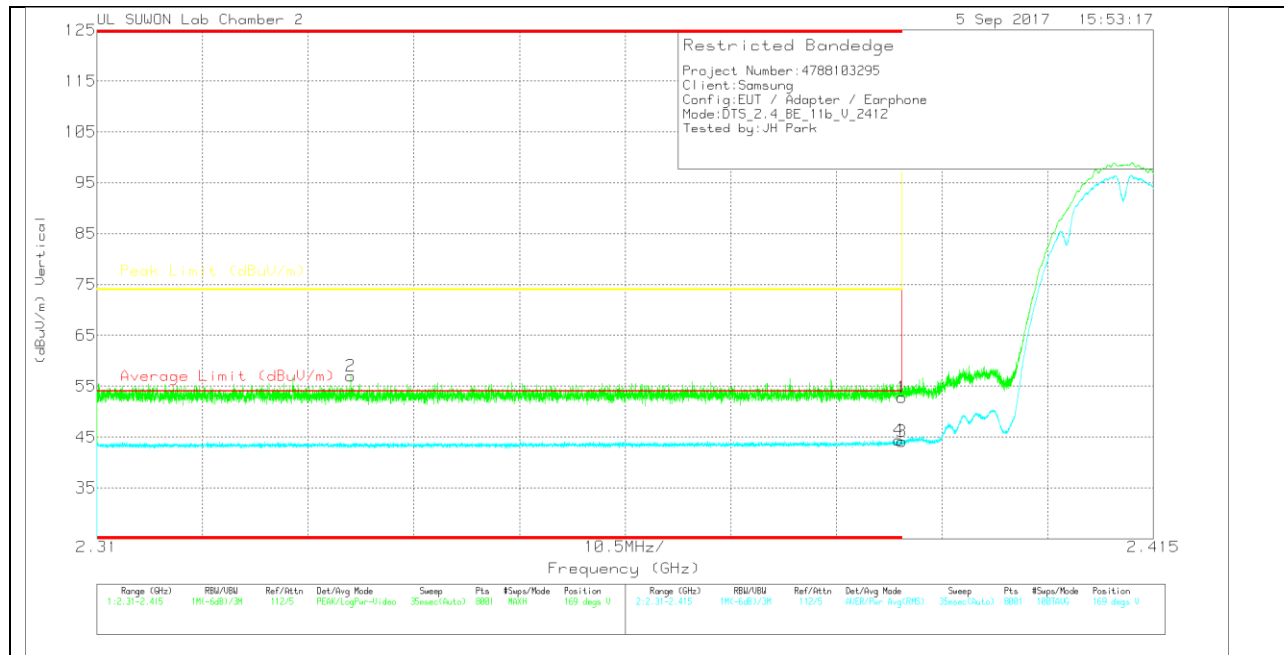
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.08	Pk	31.3	-18.2	0	54.18	-	-	74	-19.82	275	100	H
2	* 2.365	44.33	Pk	31.2	-18.3	0	57.23	-	-	74	-16.77	275	100	H
3	* 2.39	31.23	RMS	31.3	-18.2	0	44.33	54	-9.67	-	-	275	100	H
4	* 2.389	31.63	RMS	31.3	-18.2	0	44.73	54	-9.27	-	-	275	100	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.75	Pk	31.3	-18.2	0	52.85	-	-	74	-21.15	169	100	V
2	* 2.335	44.2	Pk	31.2	-18.4	0	57	-	-	74	-17	169	100	V
3	* 2.39	31.01	RMS	31.3	-18.2	0	44.11	54	-9.89	-	-	169	100	V
4	* 2.39	31.31	RMS	31.3	-18.2	0	44.41	54	-9.59	-	-	169	100	V

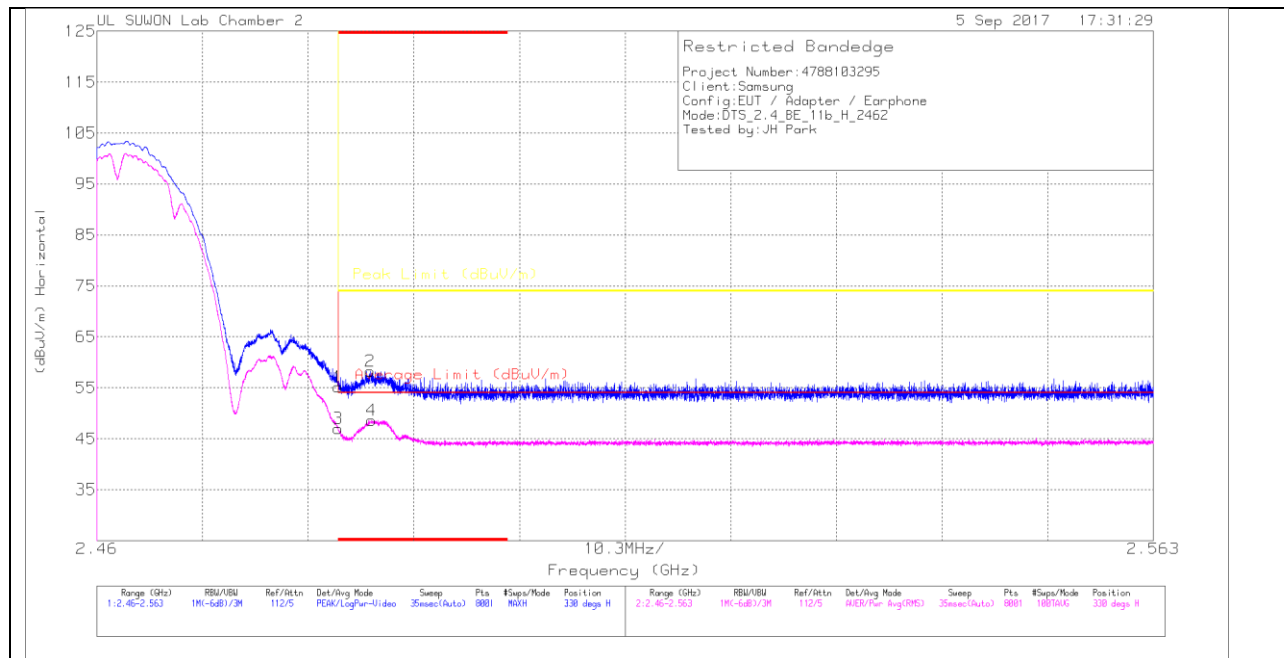
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

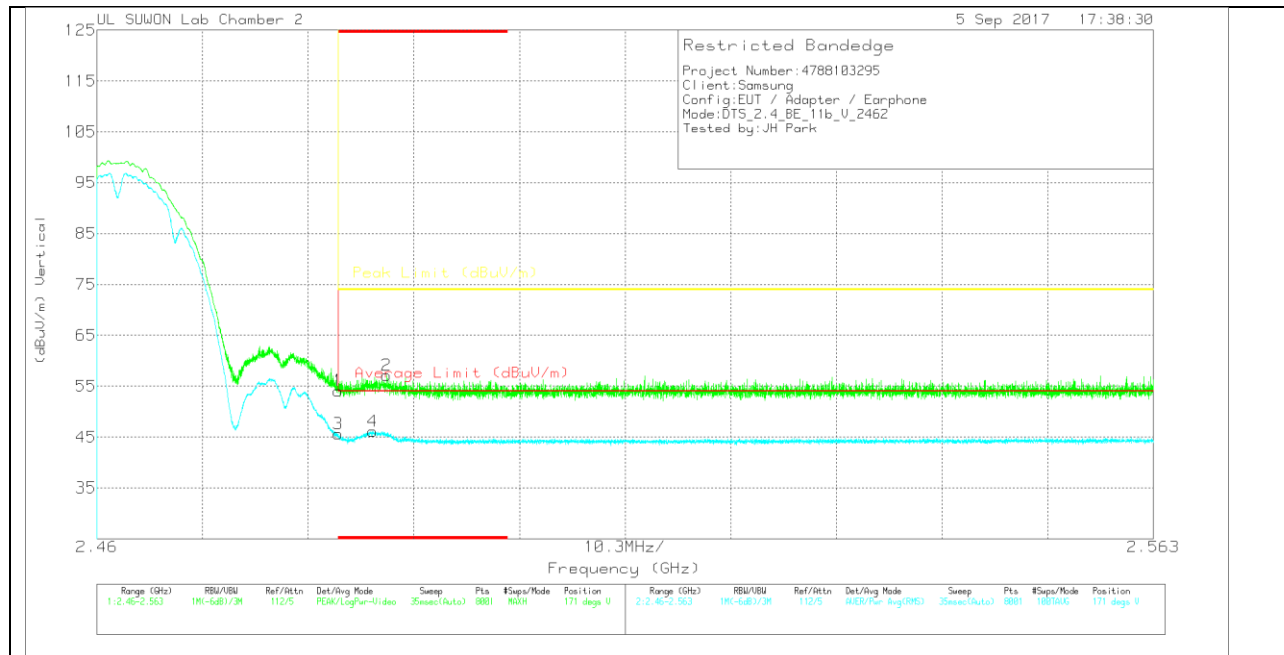
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.57	Pk		-18	0	55.17	-	-	74	-18.83	330	150	H
2	* 2.487	44.69	Pk		-18	0	58.29	-	-	74	-15.71	330	150	H
3	* 2.484	33.43	RMS		-18	0	47.03	54	-6.97	-	-	330	150	H
4	* 2.487	34.99	RMS		-18	0	48.59	54	-5.41	-	-	330	150	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.5	Pk	31.6	-18	0	54.1	-	-	74	-19.9	171	365	V
2	* 2.488	43.5	Pk	31.6	-18	0	57.1	-	-	74	-16.9	171	365	V
3	* 2.484	31.97	RMS	31.6	-18	0	45.57	54	-8.43	-	-	171	365	V
4	* 2.487	32.5	RMS	31.6	-18	0	46.1	54	-7.9	-	-	171	365	V

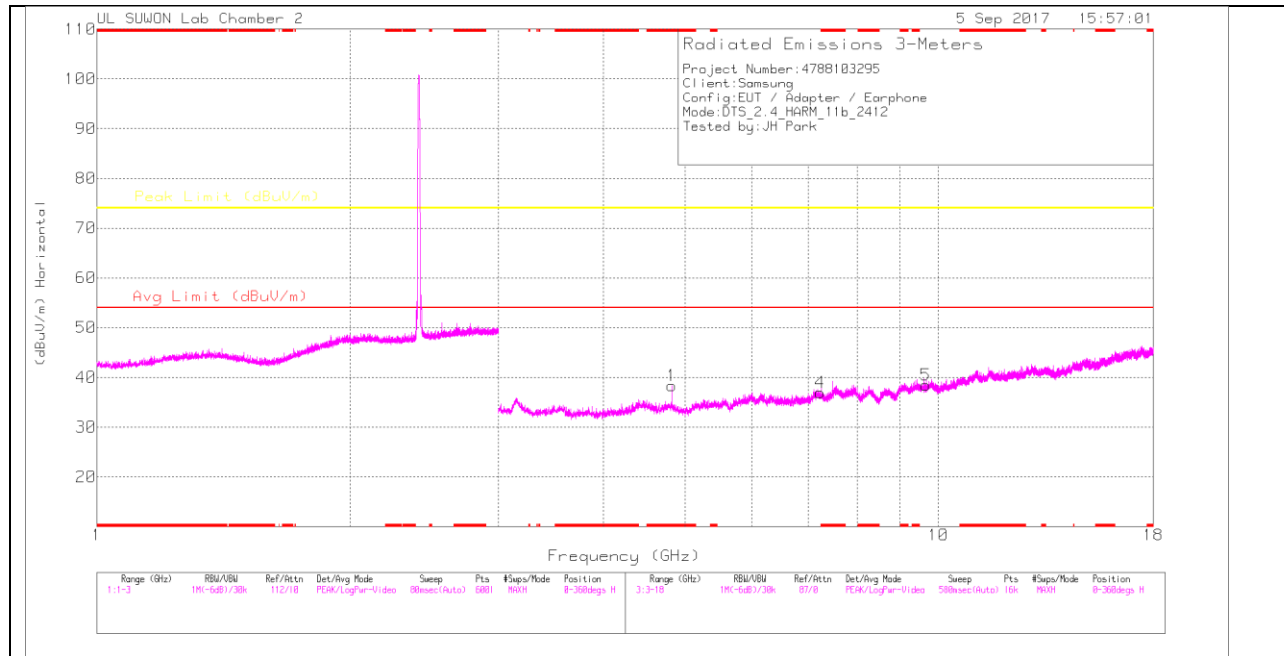
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

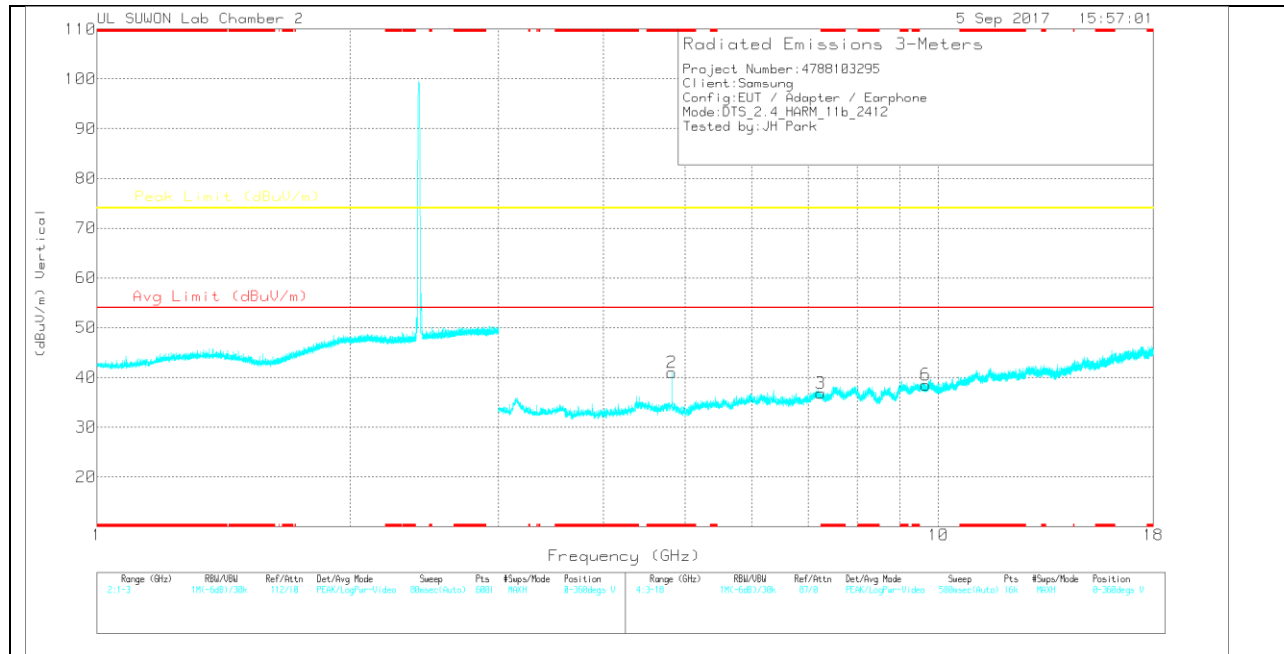
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.823	28.8	PK	33.8	-24.3	0	38.3	-	-	74	-35.7	0-360	250	H
4	7.235	22.99	PK	35.9	-21.9	0	36.99	-	-	74	-37.01	0-360	250	H
5	9.649	20	PK	36.8	-18.3	0	38.5	-	-	74	-35.5	0-360	150	H
2	* 4.823	31.53	PK	33.8	-24.3	0	41.03	-	-	74	-32.97	0-360	150	V
3	7.245	22.92	PK	35.9	-22	0	36.82	-	-	74	-37.18	0-360	150	V
6	9.652	20.03	PK	36.8	-18.3	0	38.53	-	-	74	-35.47	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

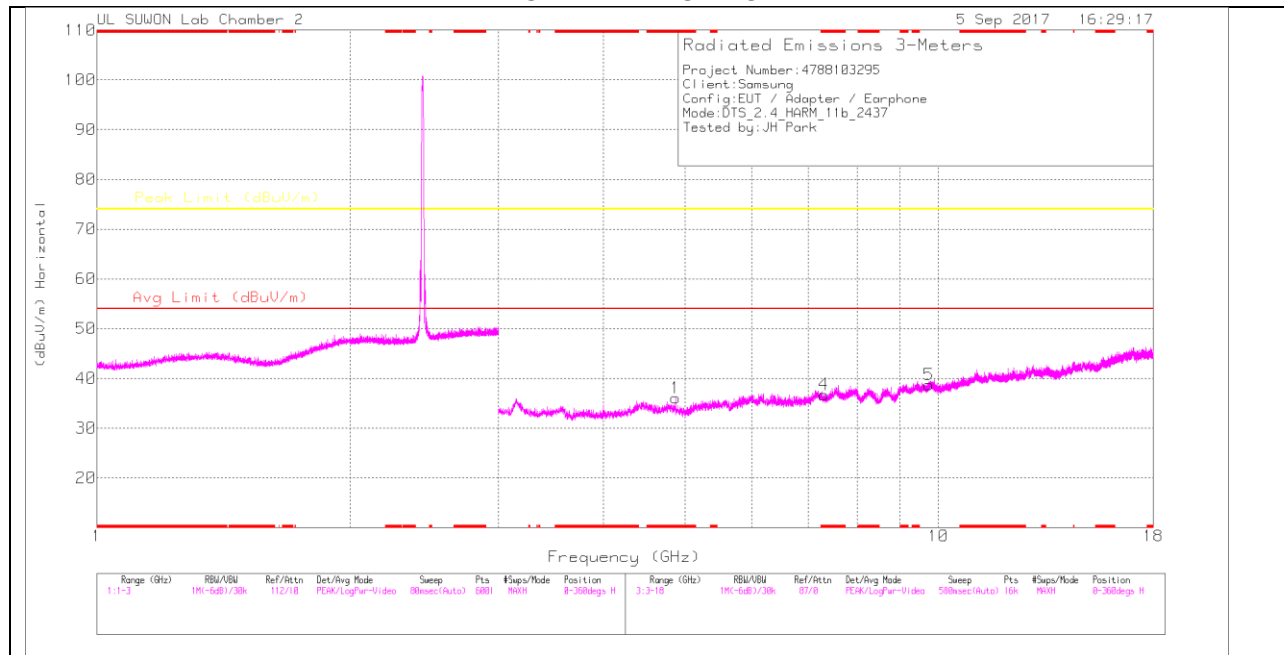
Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3 117[00168 724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.824	38.48	PK2	33.8	-24.3	0	47.98	-	-	74	-26.02	236	100	H
* 4.824	29.66	MAV1	33.8	-24.3	0	39.16	54	-14.84	-	-	236	100	H
* 4.824	39.13	PK2	33.8	-24.3	0	48.63	-	-	74	-25.37	38	139	V
* 4.824	31.98	MAV1	33.8	-24.3	0	41.48	54	-12.52	-	-	38	139	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

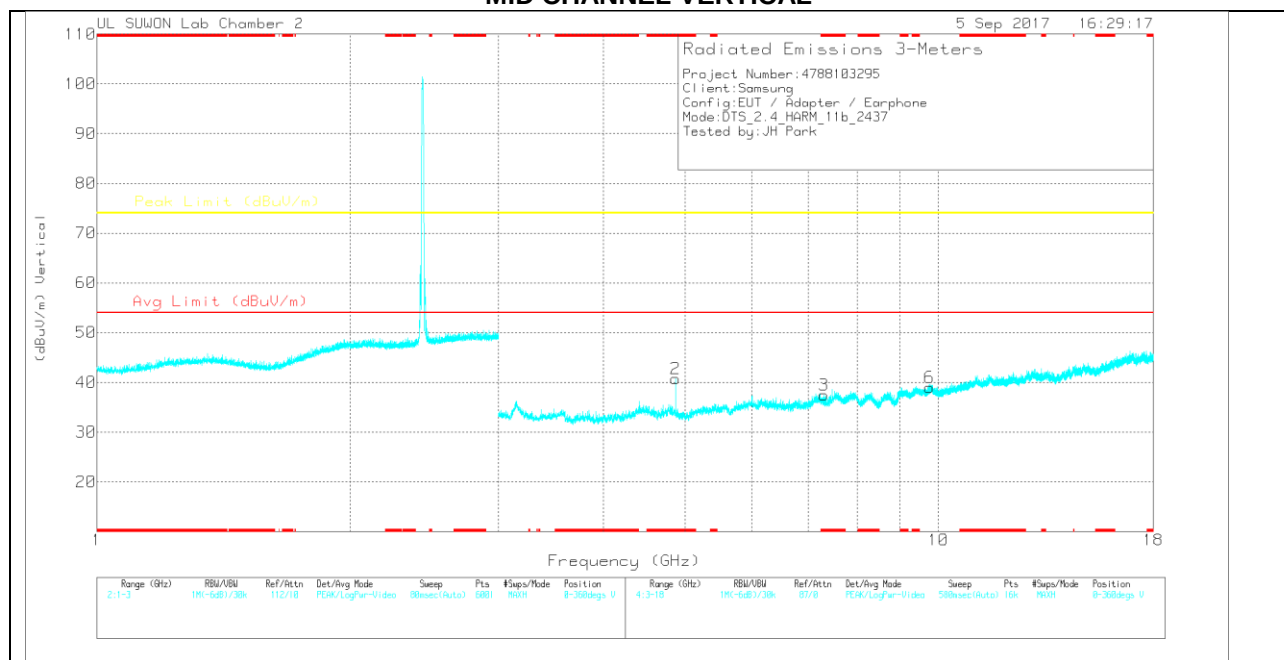
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.874	26.74	PK	33.8	-24.5	0	36.04	-	-	74	-37.96	0-360	150	H
4	* 7.307	22.86	PK	35.9	-22	0	36.76	-	-	74	-37.24	0-360	150	H
5	9.747	19.89	PK	36.9	-18.1	0	38.69	-	-	74	-35.31	0-360	150	H
2	* 4.874	31.43	PK	33.8	-24.5	0	40.73	-	-	74	-33.27	0-360	150	V
3	* 7.312	23.59	PK	35.9	-22	0	37.49	-	-	74	-36.51	0-360	150	V
6	9.754	20.06	PK	36.9	-18	0	38.96	-	-	74	-35.04	0-360	150	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

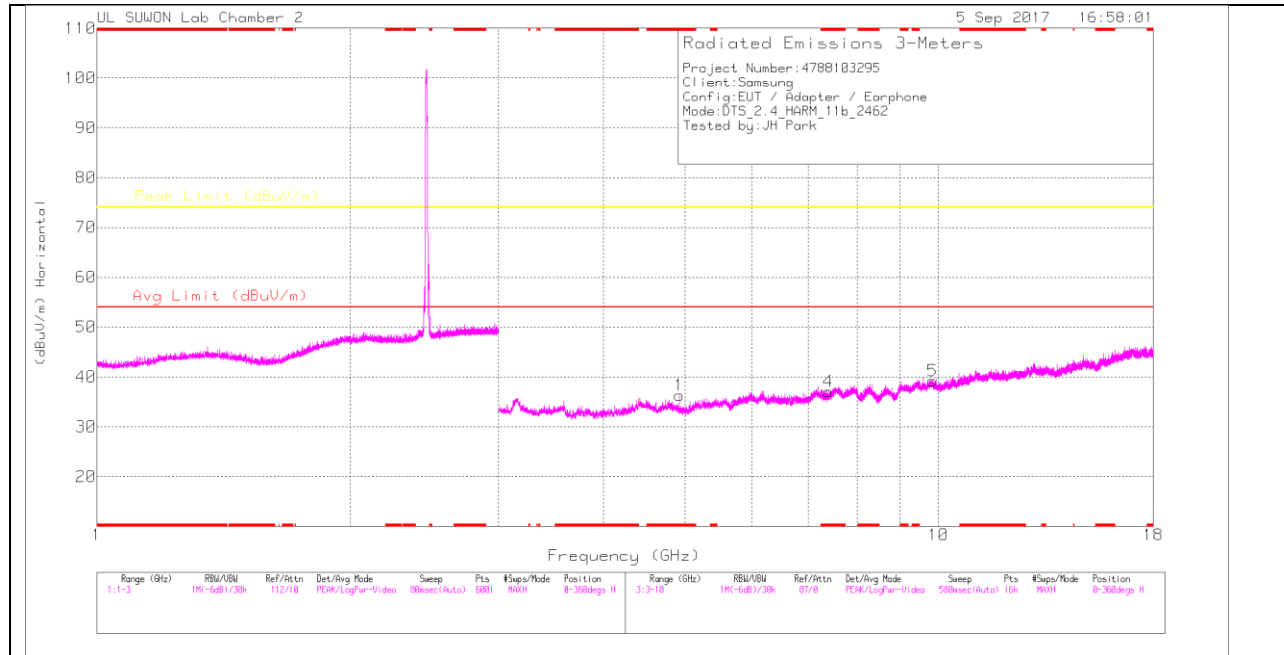
Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3 117[00168 724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.874	38.16	PK2	33.8	-24.5	0	47.46	-	-	74	-26.54	142	117	H
* 4.874	28.68	MAV1	33.8	-24.5	0	37.98	54	-16.02	-	-	142	117	H
* 4.874	39.82	PK2	33.8	-24.5	0	49.12	-	-	74	-24.88	39	136	V
* 4.874	32.26	MAV1	33.8	-24.5	0	41.56	54	-12.44	-	-	39	136	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

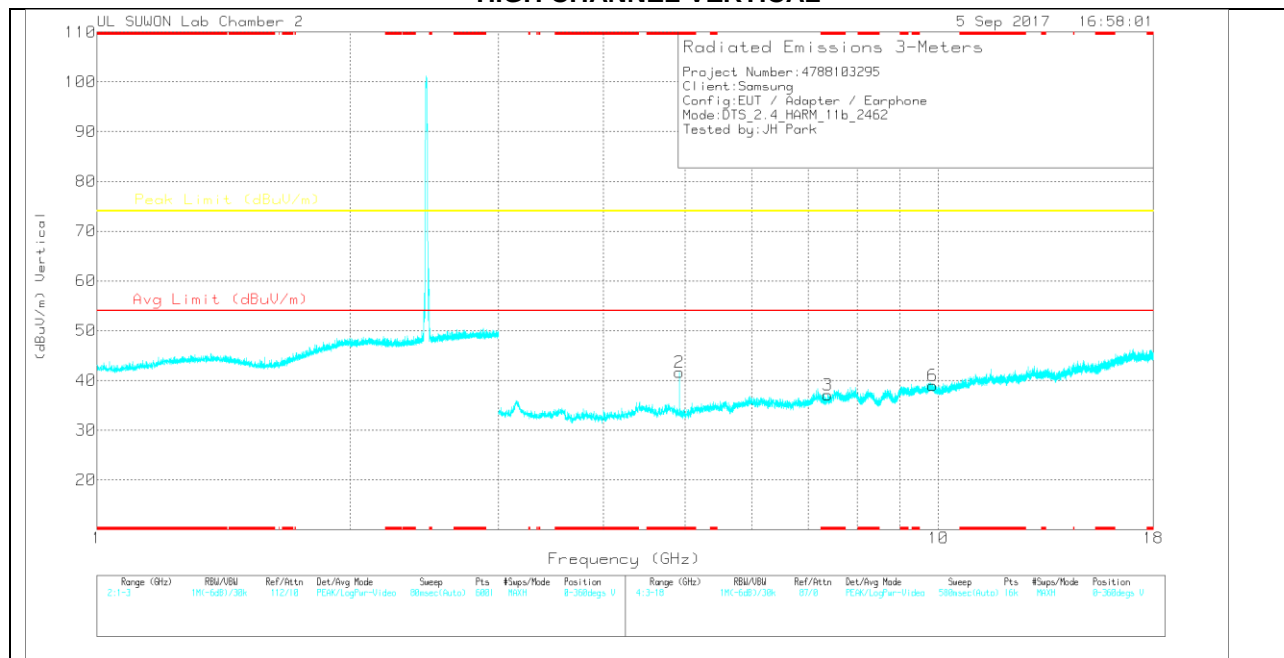
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.924	27.19	PK	33.8	-24.7	0	36.29	-	-	74	-37.71	0-360	250	H
4	* 7.392	22.46	PK	35.9	-21.3	0	37.06	-	-	74	-36.94	0-360	150	H
5	9.846	20.11	PK	37	-17.9	0	39.21	-	-	74	-34.79	0-360	250	H
2	* 4.924	32.57	PK	33.8	-24.7	0	41.67	-	-	74	-32.33	0-360	150	V
3	* 7.386	22.54	PK	35.9	-21.4	0	37.04	-	-	74	-36.96	0-360	150	V
6	9.844	19.9	PK	37	-17.9	0	39	-	-	74	-35	0-360	150	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3 117[00168 724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	37.86	PK2	33.8	-24.7	0	46.96	-	-	74	-27.04	142	125	H
* 4.924	27.97	MAV1	33.8	-24.7	0	37.07	54	-16.93	-	-	142	125	H
* 4.924	39.61	PK2	33.8	-24.7	0	48.71	-	-	74	-25.29	39	134	V
* 4.924	33.35	MAV1	33.8	-24.7	0	42.45	54	-11.55	-	-	39	134	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

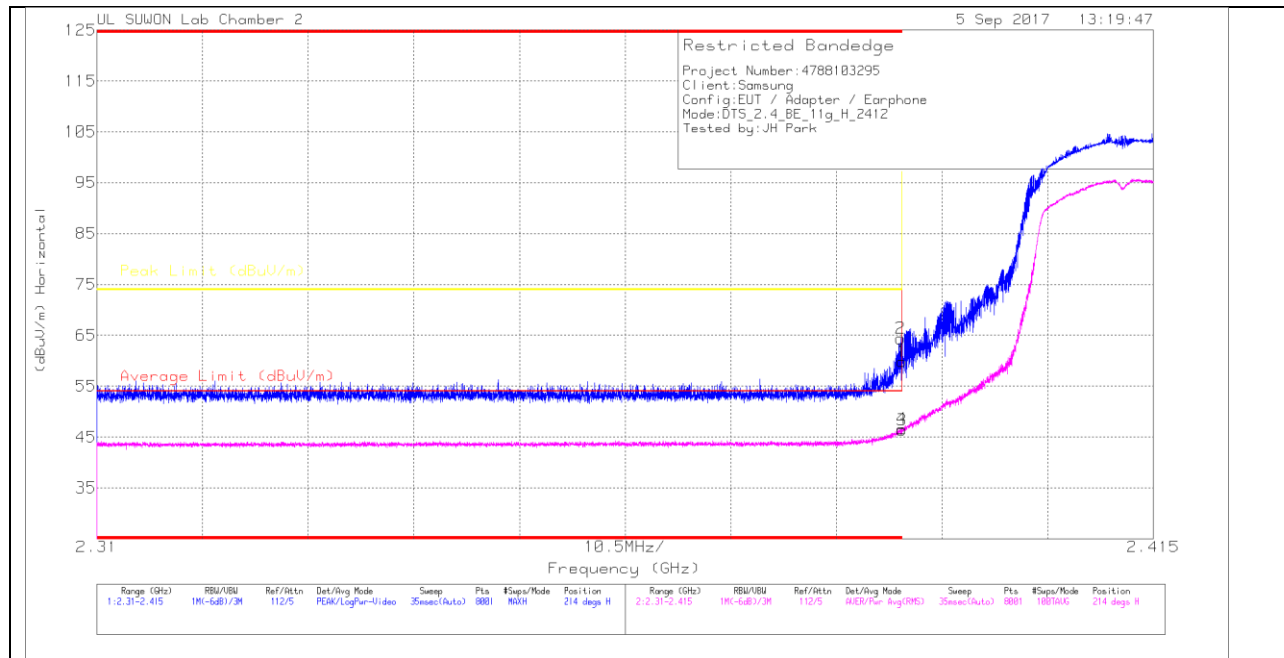
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

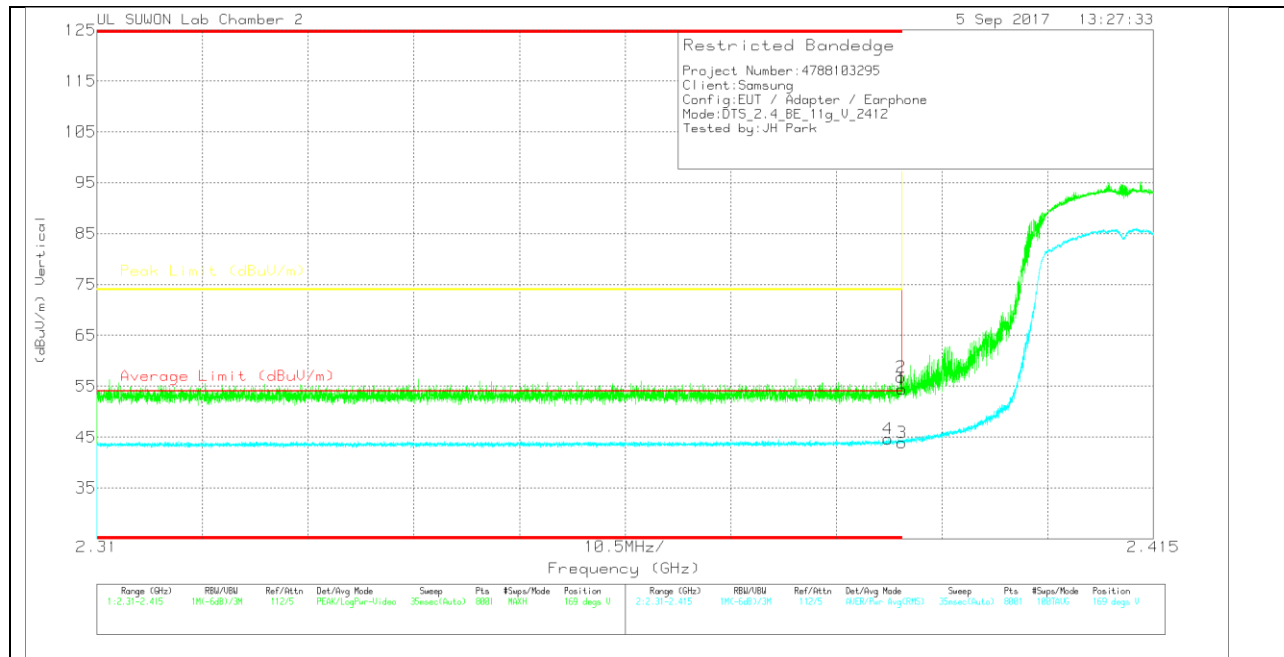
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.79	PK	31.3	-18.2	0	59.89	-	-	74	-14.11	214	377	H
2	* 2.39	51.27	PK	31.3	-18.2	0	64.37	-	-	74	-9.63	214	377	H
3	* 2.39	33.1	RMS	31.3	-18.2	.16	46.36	54	-7.64	-	-	214	377	H
4	* 2.39	33.4	RMS	31.3	-18.2	.16	46.66	54	-7.34	-	-	214	377	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_311 7[00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.35	Pk	31.3	-18.2	0	54.45	-	-	74	-19.55	169	146	V
2	* 2.39	43.7	Pk	31.3	-18.2	0	56.8	-	-	74	-17.2	169	146	V
3	* 2.39	30.65	RMS	31.3	-18.2	.16	43.91	54	-10.09	-	-	169	146	V
4	* 2.389	31.36	RMS	31.3	-18.2	.16	44.62	54	-9.38	-	-	169	146	V

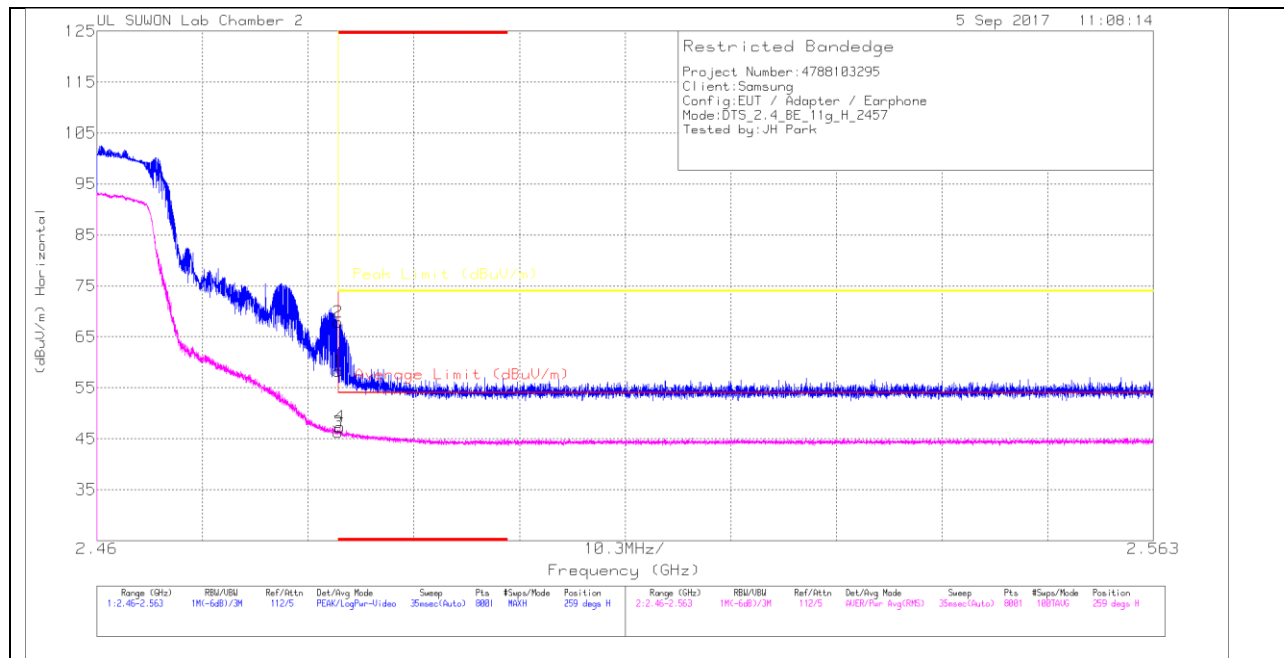
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (10 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

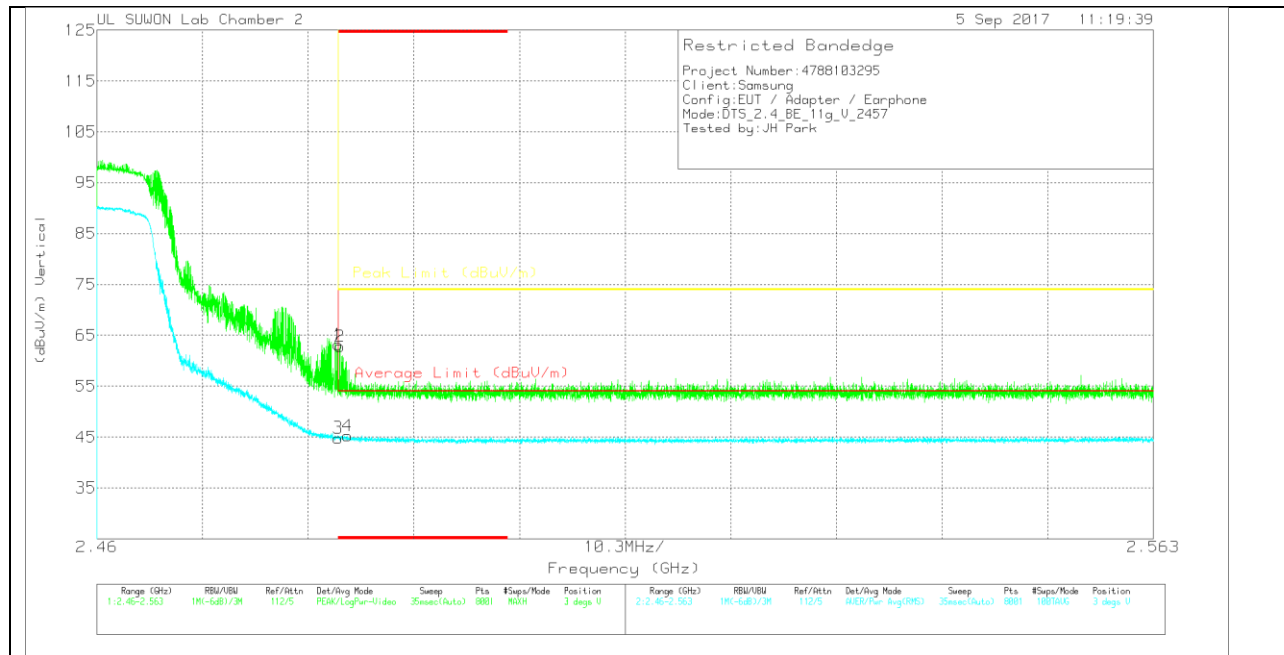
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.62	PK	31.6	-18	0	58.22	-	-	74	-15.78	259	139	H
2	* 2.484	54.31	PK	31.6	-18	0	67.91	-	-	74	-6.09	259	139	H
3	* 2.484	32.54	RMS	31.6	-18	.16	46.3	54	-7.7	-	-	259	139	H
4	* 2.484	33.54	RMS	31.6	-18	.16	47.3	54	-6.7	-	-	259	139	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.63	Pk	31.6	-18	0	63.23	-	-	74	-10.77	3	384	V
2	* 2.484	49.22	Pk	31.6	-18	0	62.82	-	-	74	-11.18	3	384	V
3	* 2.484	31.06	RMS	31.6	-18	.16	44.82	54	-9.18	-	-	3	384	V
4	* 2.484	31.5	RMS	31.6	-18	.16	45.26	54	-8.74	-	-	3	384	V

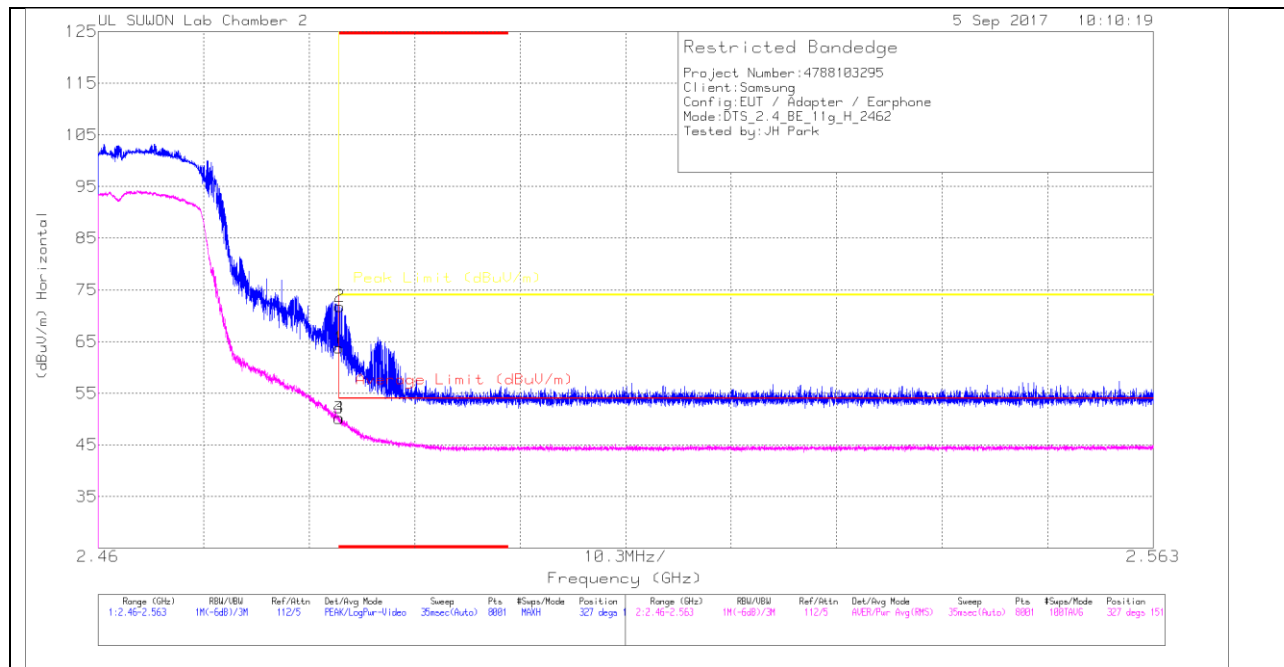
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

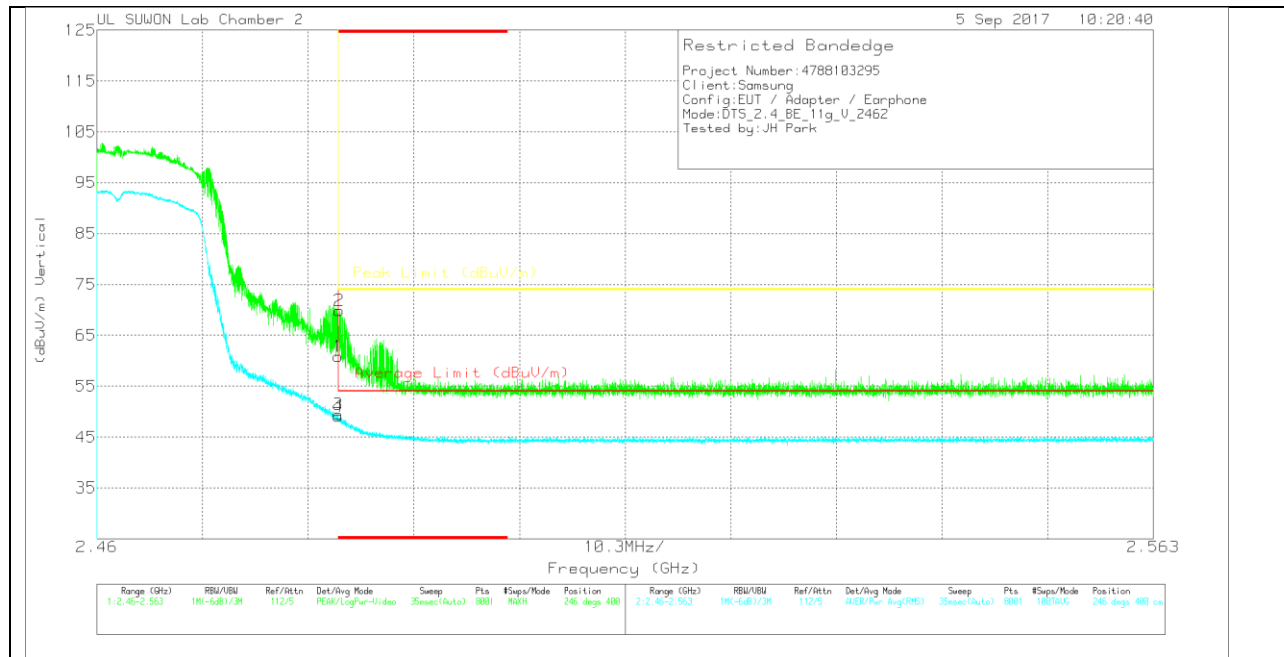
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.17	Pk	31.6	-18	0	63.77	-	-	74	-10.23	327	151	H
2	* 2.484	58.23	Pk	31.6	-18	0	71.83	-	-	74	-2.17	327	151	H
3	* 2.484	36.44	RMS	31.6	-18	.16	50.2	54	-3.8	-	-	327	151	H
4	* 2.484	36.44	RMS	31.6	-18	.16	50.2	54	-3.8	-	-	327	151	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.19	Pk	31.6	-18	0	60.79	-	-	74	-13.21	246	400	V
2	* 2.484	56.24	Pk	31.6	-18	0	69.84	-	-	74	-4.16	246	400	V
3	* 2.484	35.74	RMS	31.6	-18	.16	49.5	54	-4.5	-	-	246	400	V
4	* 2.484	35.37	RMS	31.6	-18	.16	49.13	54	-4.87	-	-	246	400	V

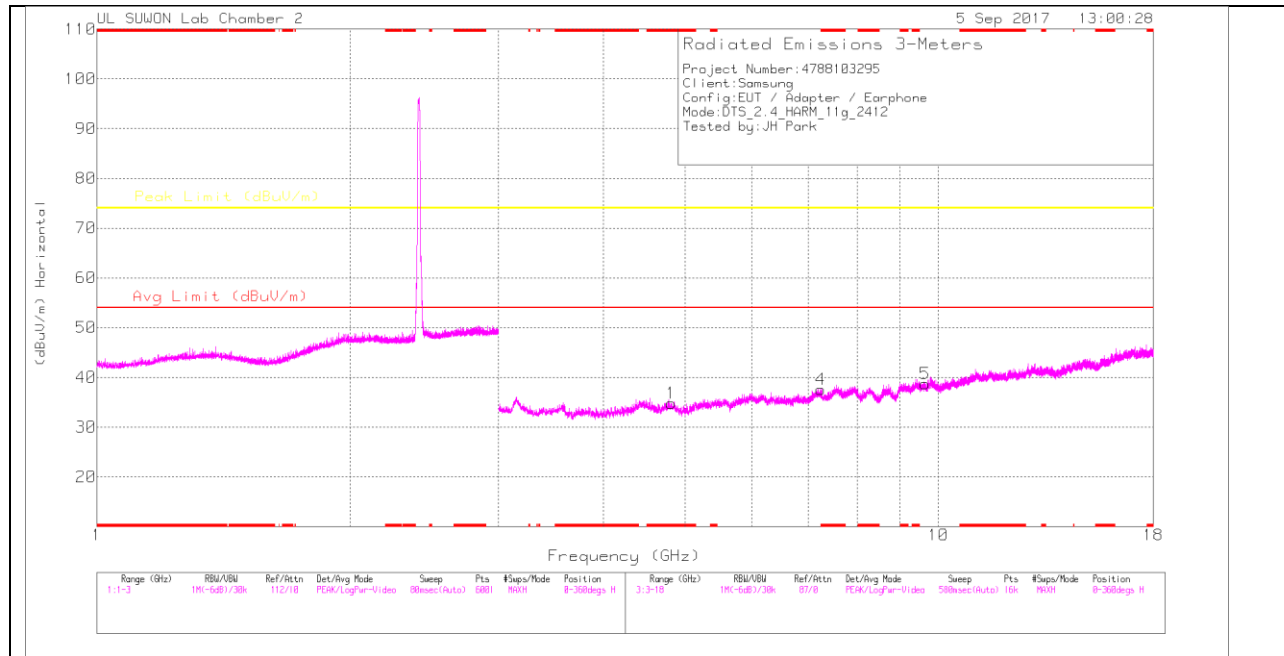
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

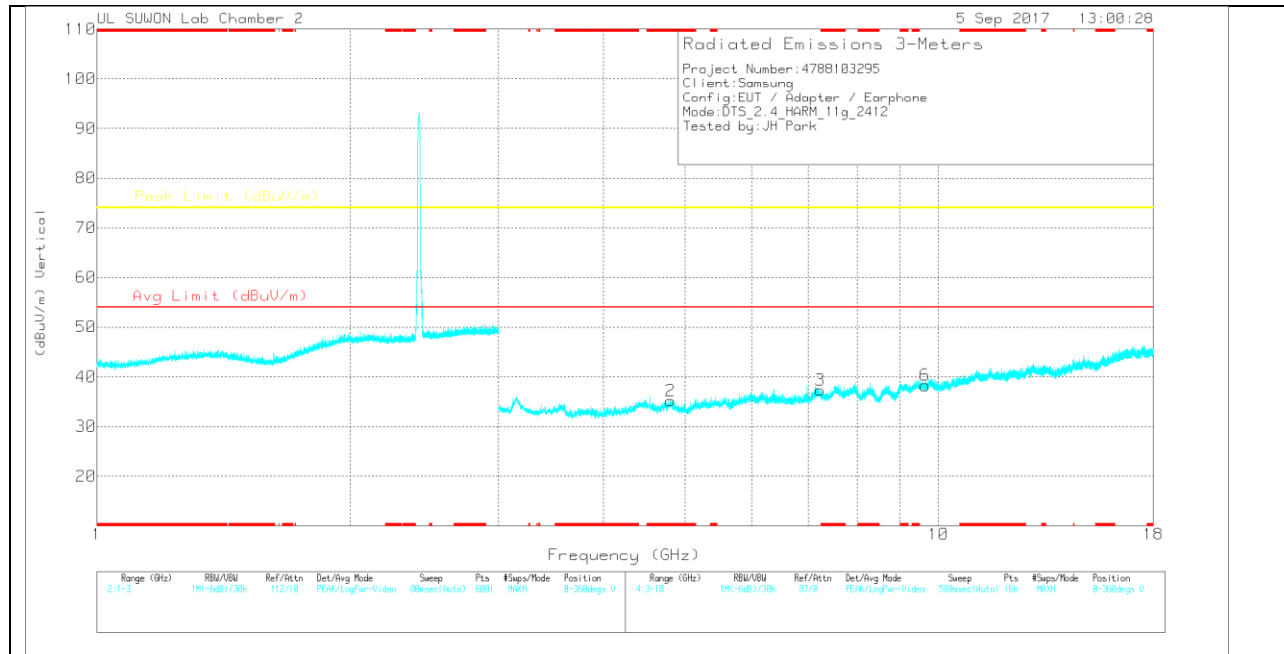
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

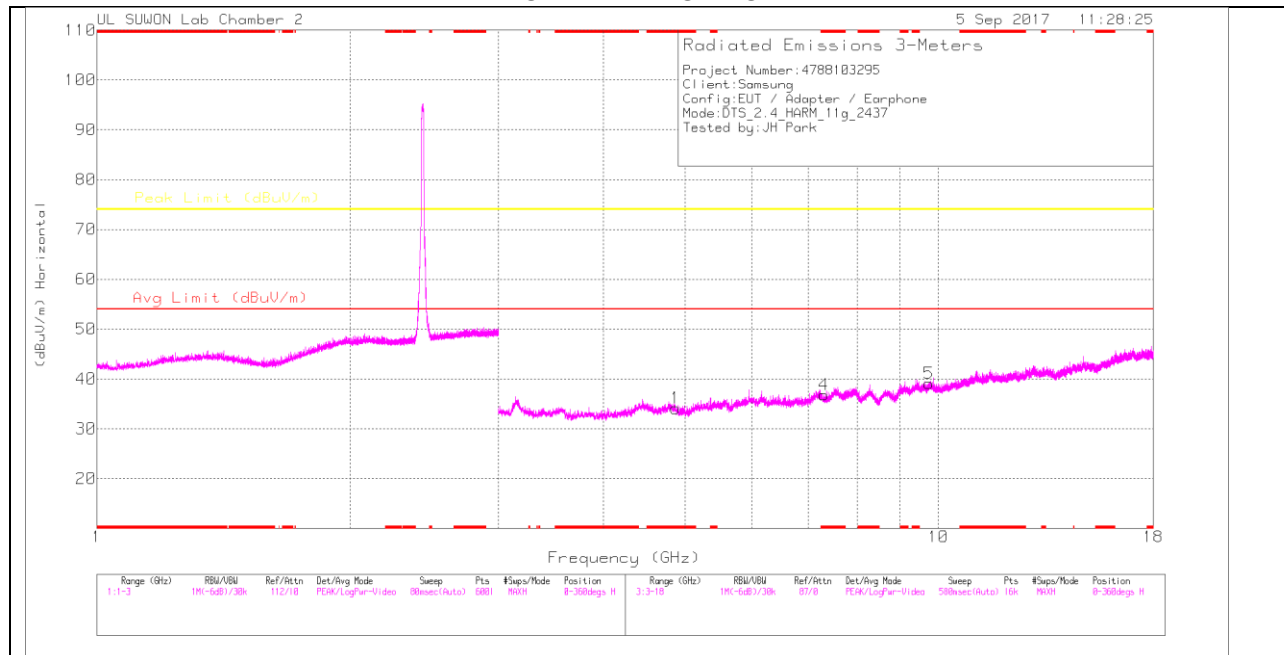
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.81	25.35	PK	33.8	-24.3	0	34.85	-	-	74	-39.15	0-360	150	H
4	7.242	23.67	PK	35.9	-22	0	37.57	-	-	74	-36.43	0-360	150	H
5	9.645	20.17	PK	36.8	-18.3	0	38.67	-	-	74	-35.33	0-360	250	H
2	* 4.807	25.69	PK	33.8	-24.3	0	35.19	-	-	74	-38.81	0-360	149	V
3	7.236	23.38	PK	35.9	-22	0	37.28	-	-	74	-36.72	0-360	250	V
6	9.648	19.78	PK	36.8	-18.3	0	38.28	-	-	74	-35.72	0-360	149	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

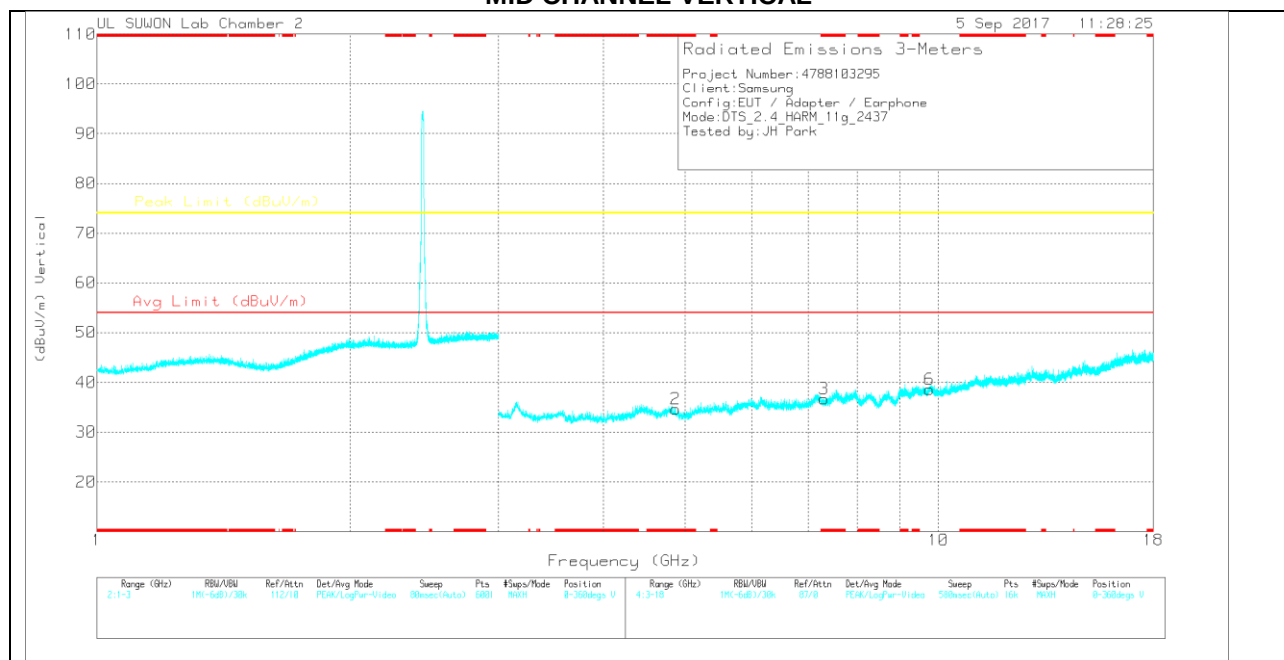
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

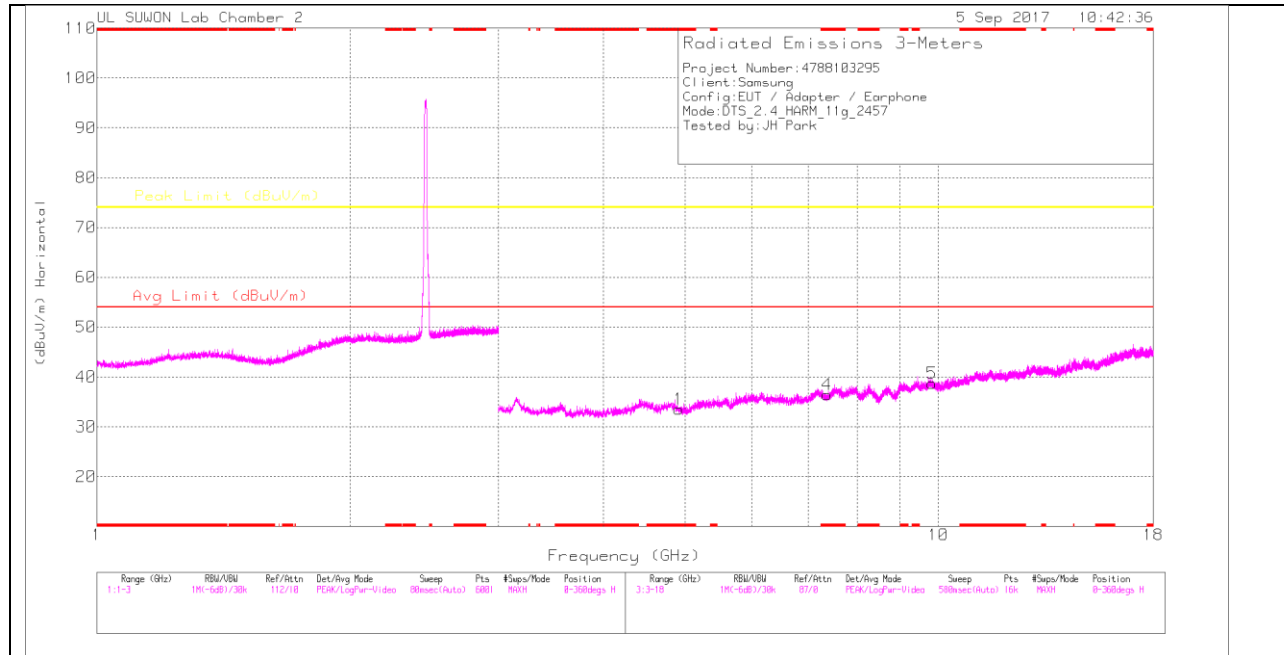
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.873	24.81	PK	33.8	-24.5	0	34.11	-	-	74	-39.89	0-360	150	H
4	* 7.313	22.95	PK	35.9	-22	0	36.85	-	-	74	-37.15	0-360	150	H
5	9.748	20.32	PK	36.9	-18.1	0	39.12	-	-	74	-34.88	0-360	250	H
2	* 4.873	25.38	PK	33.8	-24.5	0	34.68	-	-	74	-39.32	0-360	150	V
3	* 7.31	22.77	PK	35.9	-22	0	36.67	-	-	74	-37.33	0-360	250	V
6	9.754	19.73	PK	36.9	-18	0	38.63	-	-	74	-35.37	0-360	150	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

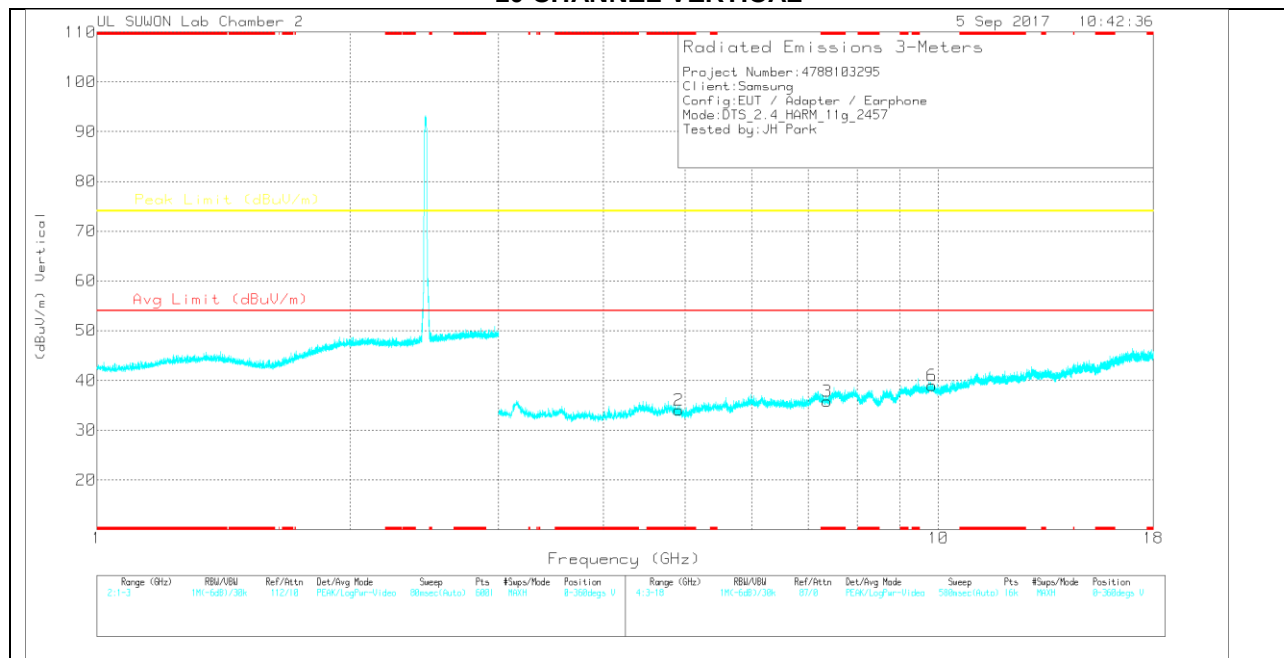
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

10 CHANNEL HORIZONTAL



10 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

10 CHANNEL DATA

Trace Markers

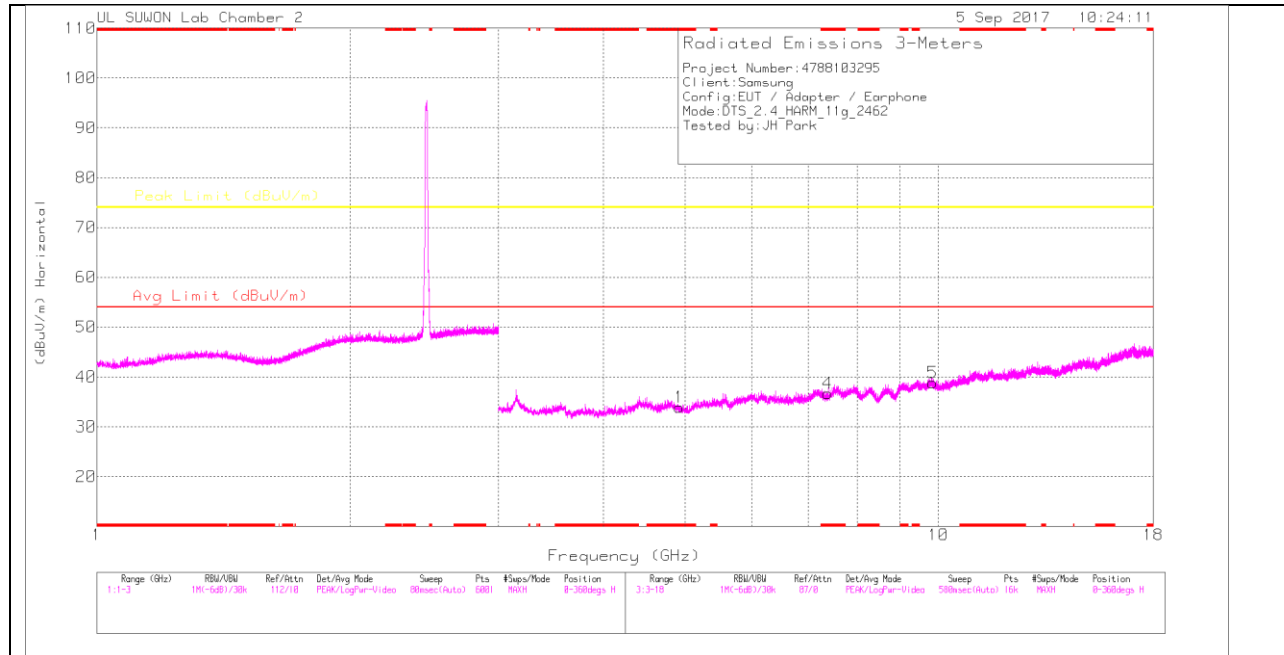
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.913	24.34	PK	33.8	-24.6	0	33.54	-	-	74	-40.46	0-360	150	H
4	* 7.368	22.16	PK	35.9	-21.6	0	36.46	-	-	74	-37.54	0-360	250	H
5	9.83	19.6	PK	37	-17.9	0	38.7	-	-	74	-35.3	0-360	150	H
2	* 4.911	24.87	PK	33.8	-24.6	0	34.07	-	-	74	-39.93	0-360	150	V
3	* 7.372	21.47	PK	35.9	-21.6	0	35.77	-	-	74	-38.23	0-360	250	V
6	9.83	19.9	PK	37	-17.9	0	39	-	-	74	-35	0-360	150	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

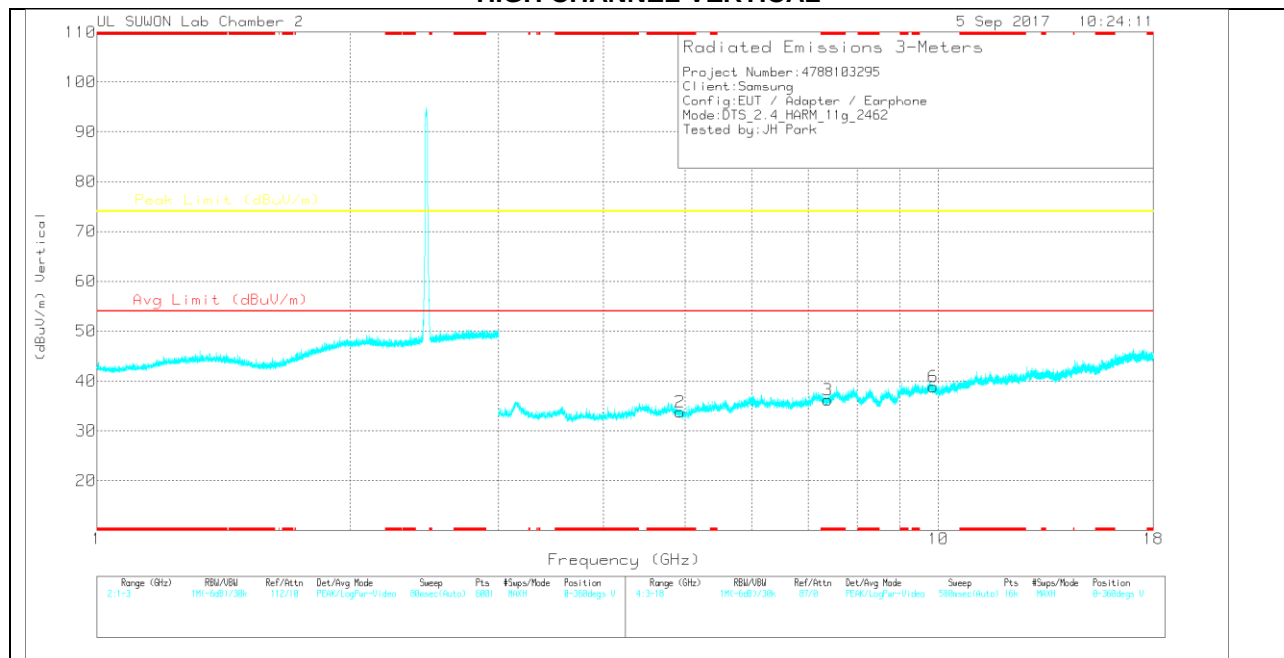
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.924	24.76	PK	33.8	-24.7	0	33.86	-	-	74	-40.14	0-360	149	H
4	* 7.382	22.22	PK	35.9	-21.4	0	36.72	-	-	74	-37.28	0-360	149	H
5	9.848	19.74	PK	37	-17.9	0	38.84	-	-	74	-35.16	0-360	149	H
2	* 4.929	24.65	PK	33.8	-24.7	0	33.75	-	-	74	-40.25	0-360	150	V
3	* 7.385	21.73	PK	35.9	-21.4	0	36.23	-	-	74	-37.77	0-360	150	V
6	9.853	19.71	PK	37	-17.9	0	38.81	-	-	74	-35.19	0-360	150	V

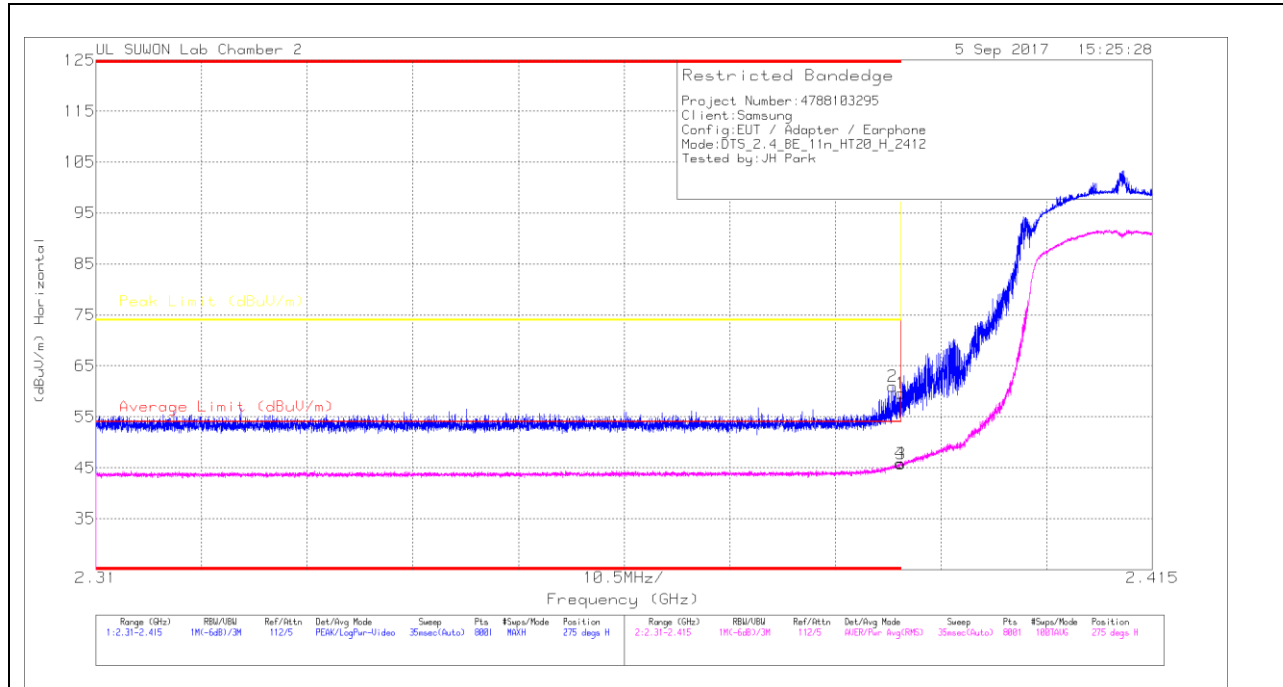
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

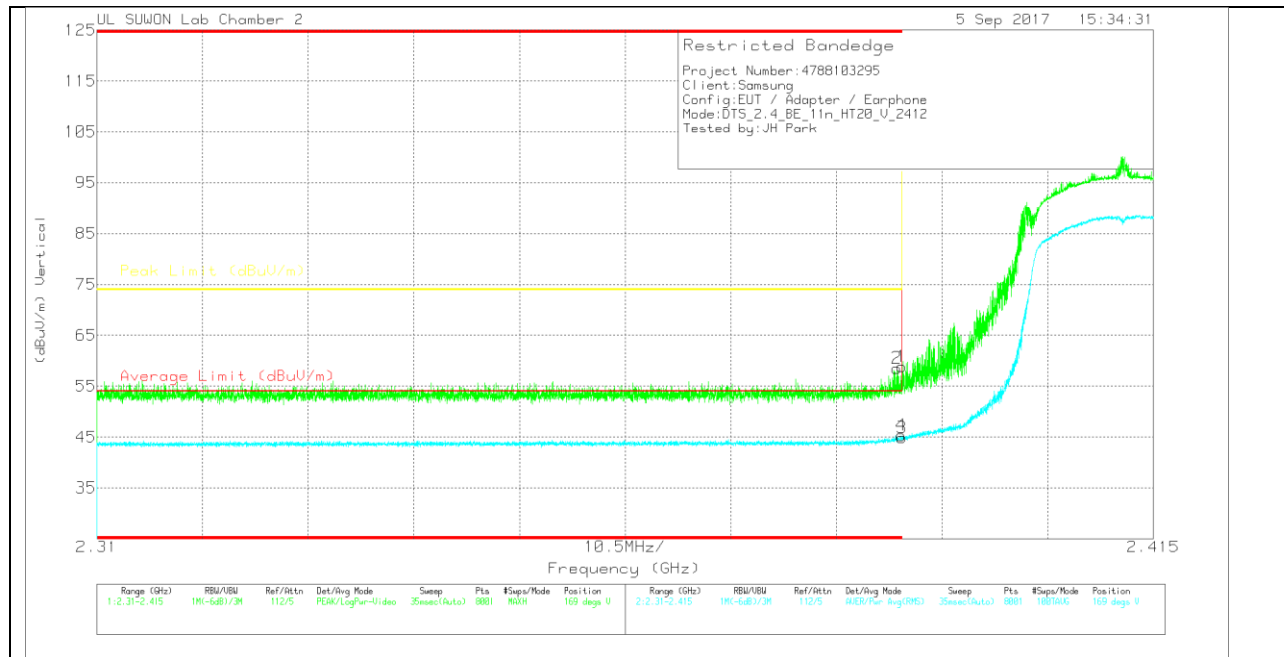
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.5	Pk	31.3	-18.2	0	59.6	-	-	74	-14.4	275	100	H
2	* 2.389	47.83	Pk	31.3	-18.2	0	60.93	-	-	74	-13.07	275	100	H
3	* 2.39	32.42	RMS	31.3	-18.2	.24	45.76	54	-8.24	-	-	275	100	H
4	* 2.39	32.53	RMS	31.3	-18.2	.24	45.87	54	-8.13	-	-	275	100	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.75	Pk	31.3	-18.2	0	58.85	-	-	74	-15.15	169	100	V
2	* 2.389	45.45	Pk	31.3	-18.2	0	58.55	-	-	74	-15.45	169	100	V
3	* 2.39	31.59	RMS	31.3	-18.2	.24	44.93	54	-9.07	-	-	169	100	V
4	* 2.39	31.98	RMS	31.3	-18.2	.24	45.32	54	-8.68	-	-	169	100	V

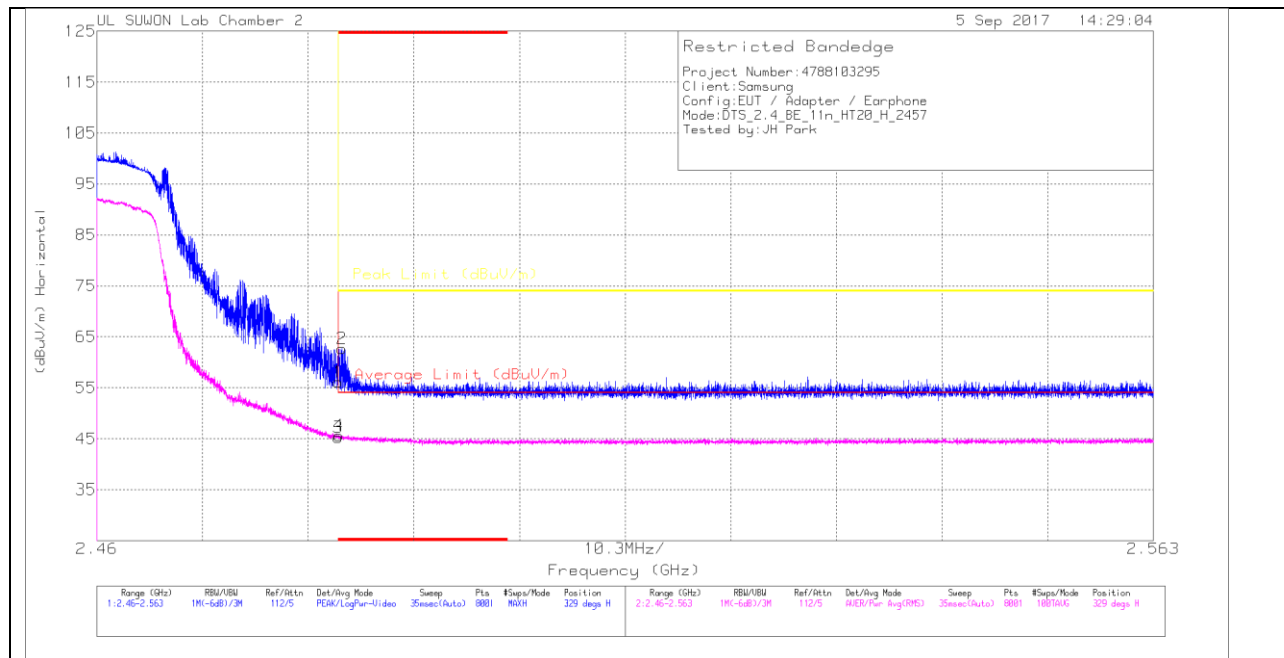
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (10 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

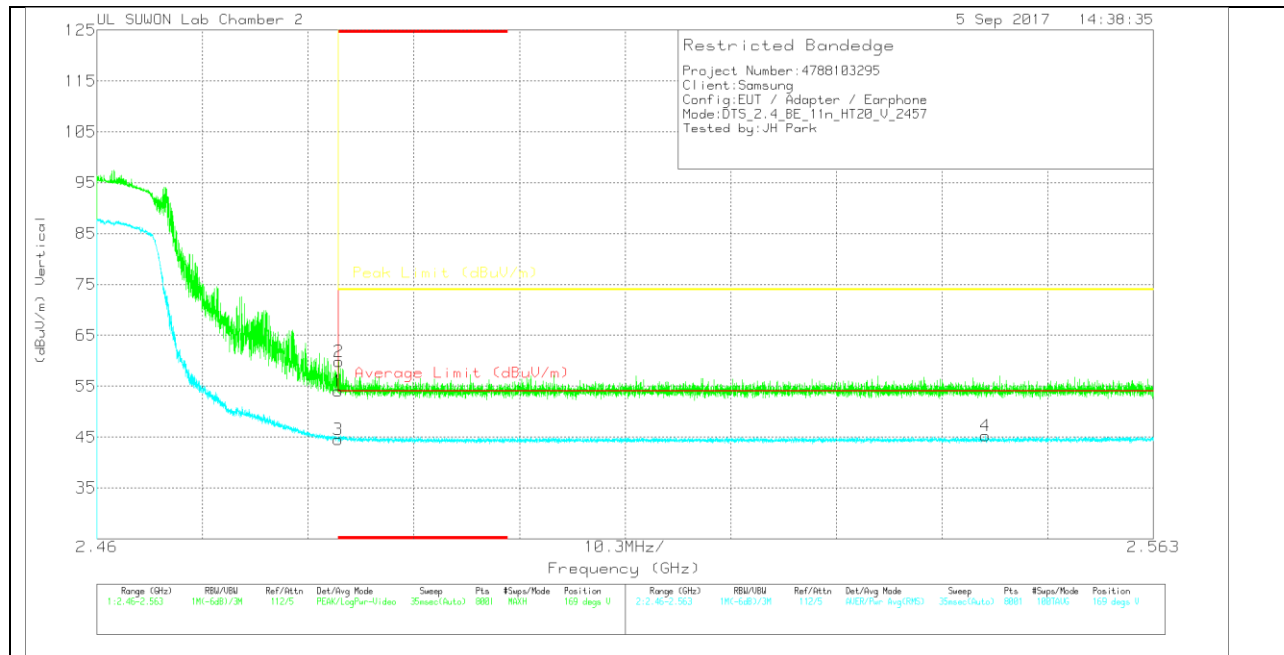
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.57	PK	31.6	-18	0	56.17	-	-	74	-17.83	329	102	H
2	* 2.484	49.11	PK	31.6	-18	0	62.71	-	-	74	-11.29	329	102	H
3	* 2.484	31.4	RMS	31.6	-18	.24	45.24	54	-8.76	-	-	329	102	H
4	* 2.484	31.76	RMS	31.6	-18	.24	45.6	54	-8.4	-	-	329	102	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117 [00168724]	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.46	Pk	31.6	-18	0	54.06	-	-	74	-19.94	169	152	V
2	* 2.484	46.23	Pk	31.6	-18	0	59.83	-	-	74	-14.17	169	152	V
3	* 2.484	30.62	RMS	31.6	-18	.24	44.46	54	-9.54	-	-	169	152	V
4	2.547	31.31	RMS	31.7	-18	.24	45.25	54	-8.75	-	-	169	152	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection