



FCC CFR47 PART 15 SUBPART C

Bluetooth

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Tablet + BT/BLE and DTS b/g/n

MODEL NUMBER : SM-T285

FCC ID: A3LSMT285

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE Tablet + BT/BLE and DTS b/g/n
MODEL NUMBER: SM-T285
SERIAL NUMBER: R32GC00C4XK (RADIATED); R32GC00C46Z (CONDUCTED)
DATE TESTED: JAN 28, 2016 - FEB 11, 2016

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
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Tested By:



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UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15.

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	
<input checked="" type="checkbox"/>	Chamber 1
<input type="checkbox"/>	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:

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

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 GSM/WCDMA/LTE Tablet + BT/BLE and DTS b/g/n.
This test report addresses the DSS (BT) operational mode.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range [MHz]	Mode	Power Mode	Output Power [dBm]	Output Power [mW]
2402 - 2480	Basic GFSK	Average	11.96	15.70
		Peak	12.31	17.02
	Enhanced Pi/4-DPSK	Average	11.48	14.06
		Peak	13.43	22.00
	Enhanced 8PSK	Average	11.49	14.09
		Peak	13.83	24.13

Note: GFSK, Pi/4-DQPSK, 8PSK average Power are all investigated, The GFSK & 8PSK Power are the worst case. Testing is based on this mode to showing compliance. For average power data please refer to section 8.6.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -0.4 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

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

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.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	ETA0U83EWE	DW1GB01PS/A-E	N/A
Data Cable	SAMSUNG	ECB-DU68WE	N/A	N/A
Earphone	SAMSUNG	EHS61ASFWE	N/A	N/A

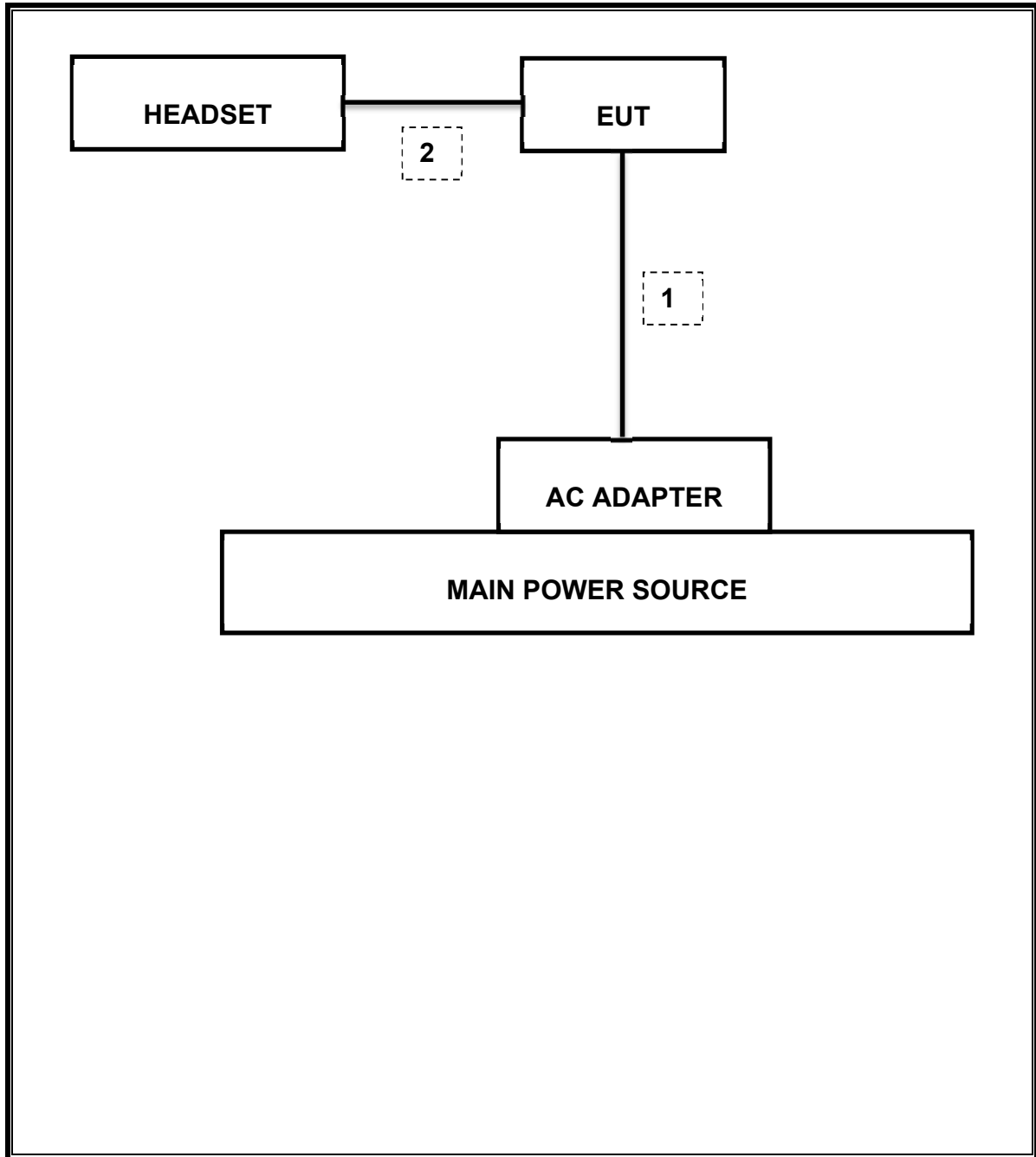
I/O CABLES

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	0.8m	N/A
1	Audio	1	Mini-Jack	Unshielded	1.0m	N/A

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests. EUT was set in the Hidden menu mode to enable BT communications.

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	11-17-16
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	04-25-17
Antenna, Horn, 18 GHz	ETS	3115	00167211	09-20-16
Antenna, Horn, 18 GHz	ETS	3115	00161451	05-17-17
Antenna, Horn, 18 GHz	ETS	3117	00168724	06-17-17
Antenna, Horn, 18 GHz	ETS	3117	00168717	06-17-17
Antenna, Horn, 40 GHz	ETS	3116C	00166155	09-23-16
Antenna, Horn, 40 GHz	ETS	3116C-PA	00168841	08-24-17
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-18-16
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-18-16
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	08-18-16
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-18-16
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	08-19-16
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	08-19-16
Bluetooth Tester	TESCOM	TC-3000C	3000C000546	08-18-16
Average Power Sensor	R&S	NRZ-Z91	102681	08-18-16
Average Power Sensor	Agilent / HP	U2000	MY54270007	08-18-16
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-19-16
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-19-16
EMI Test Receive, 3 GHz	R&S	ESR3	101832	08-19-16
Attenuator / Switch driver	HP	11713A	3748A04272	N/A
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	009	08-18-16
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	015	08-18-16
High Pass Filter 5GHz	Micro-Tronics	HPS17542	009	08-18-16
High Pass Filter 6GHz	Micro-Tronics	HPM17543	010	08-18-16
High Pass Filter 5GHz	Micro-Tronics	HPS17542	016	08-18-16
High Pass Filter 6GHz	Micro-Tronics	HPM17543	015	08-18-16
LISN	R&S	ENV-216	101836	08-19-16
LISN	R&S	ENV-216	101837	08-19-16
Combiner	WEINSCHEL	1575	2154	08-20-16

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
2.1049	Occupied Band width (99%)	N/A	Conducted	Pass	1.165 MHz
2.1051, 15.247 (d)	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-28.731 dBm
15.247 (b)(1)	TX conducted output power	<21dBm		Pass	13.825 dBm (Peak)
15.247 (a)(1)	Hopping frequency separation	> 25KHz		Pass	1 MHz
15.247 (a)(1)(iii)	Number of Hopping channels	More than 15 non-overlapping channels		Pass	79
15.247 (a)(1)(iii)	Avg Time of Occupancy	< 0.4sec		Pass	0.379 sec
15.207 (a)	AC Power Line conducted emissions	Section 10	Power Line conducted	Pass	46.7 dBuV (QP)
15.205, 15.209	Radiated Spurious Emission	< 54dBuV/m	Radiated	Pass	49.73 dBuV/m (AV)

8. ANTENNA PORT TEST RESULTS

8.1. 20 dB AND 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer. The RBW is set to \geq 1% of the 20 dB bandwidth. The VBW is set to \geq RBW. The sweep time is coupled.

RESULTS

8.1.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency [MHz]	20 dB Bandwidth [MHz]	99% Bandwidth [MHz]
Low	2402	897.000	825.220
Mid	2441	898.300	829.220
High	2480	897.100	828.980
Worst		898.300	829.220

8.1.2. ENHANCED DATA RATE Pi/4-DQPSK MODULATION

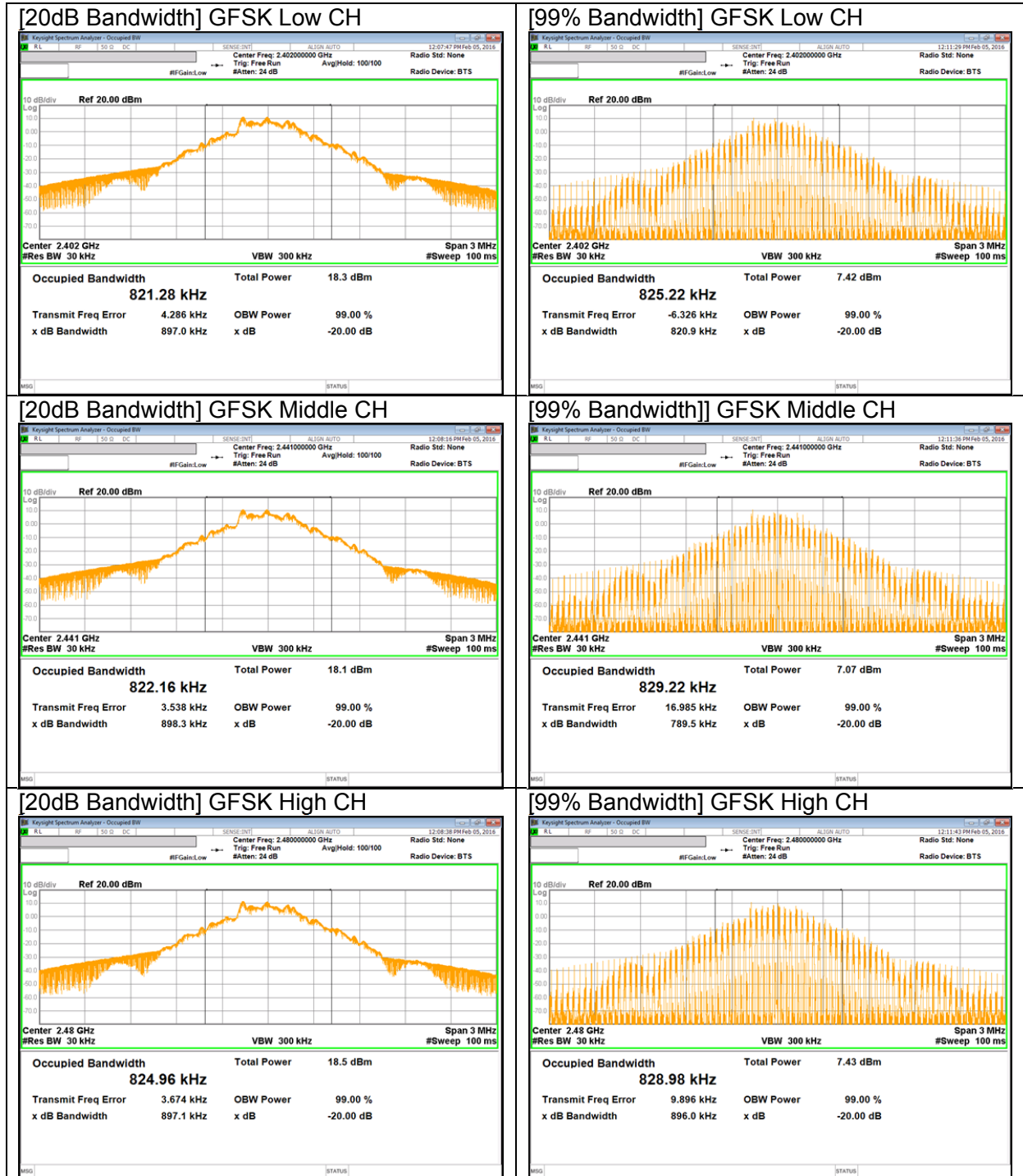
Channel	Frequency [MHz]	20 dB Bandwidth [MHz]	99% Bandwidth [MHz]
Low	2402	1.252	1.163
Mid	2441	1.253	1.165
High	2480	1.254	1.162
Worst		1.254	1.165

8.1.3. ENHANCED DATA RATE 8PSK MODULATION

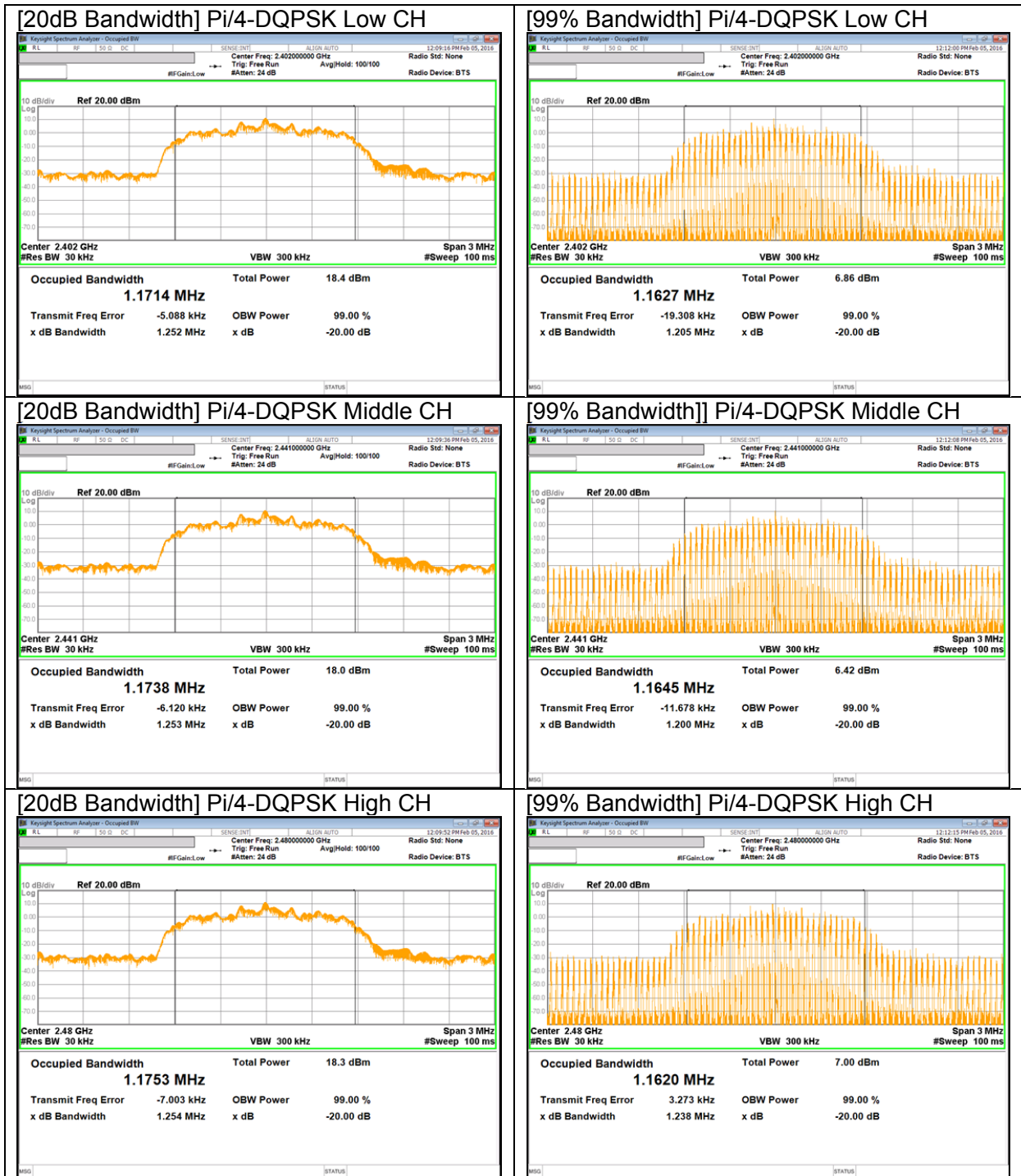
Channel	Frequency [MHz]	20 dB Bandwidth [MHz]	99% Bandwidth [MHz]
Low	2402	1.221	1.164
Mid	2441	1.222	1.164
High	2480	1.221	1.162
Worst		1.222	1.164

8.1.4. 20 dB AND 99% BANDWIDTH PLOTS

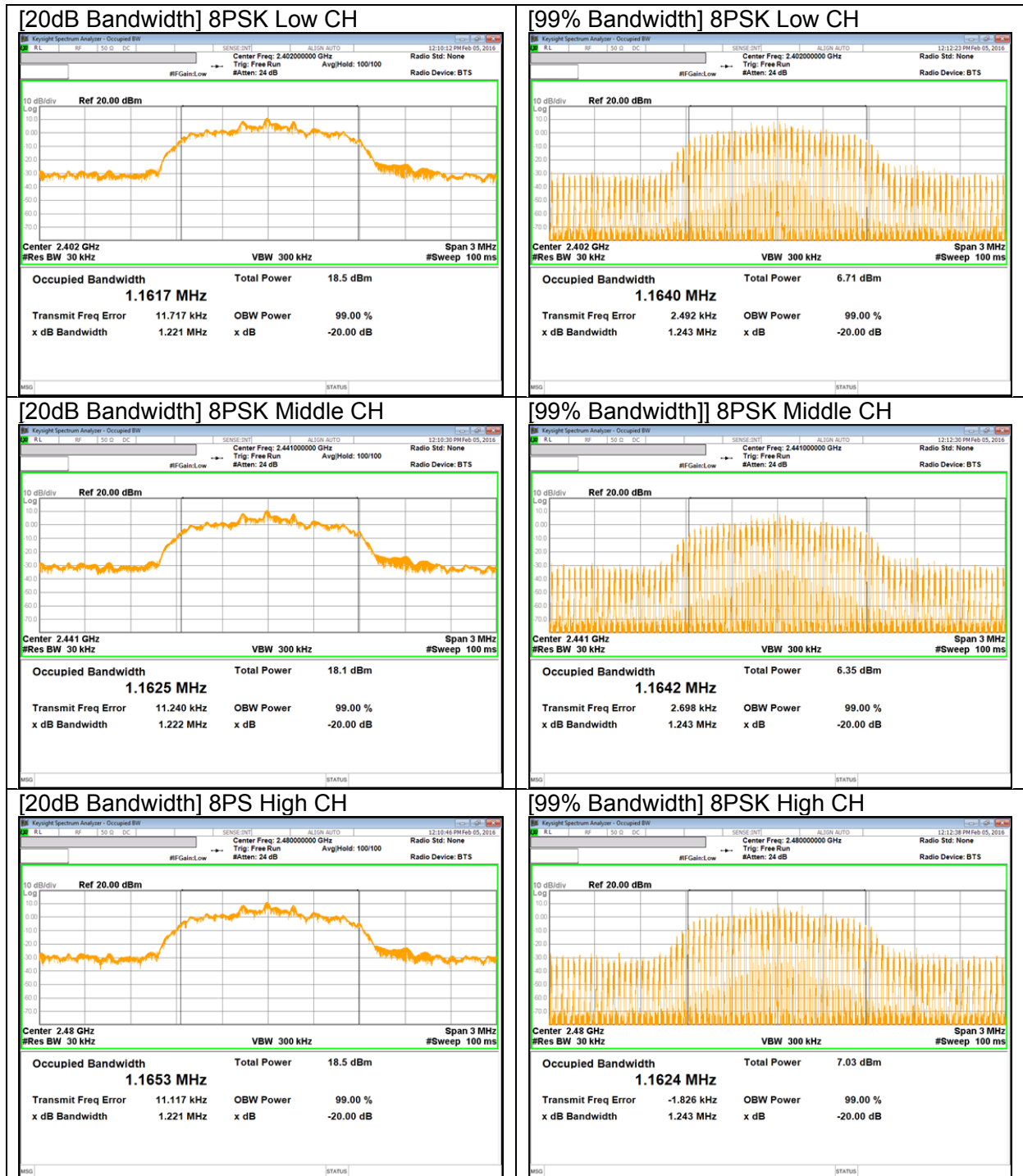
GFSK BANDWIDTH



Pi/4-DQPSK BANDWIDTH



8PSK BANDWIDTH



8.2. HOPPING FREQUENCY SEPARATION

LIMIT

FCC §15.247 (a) (1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

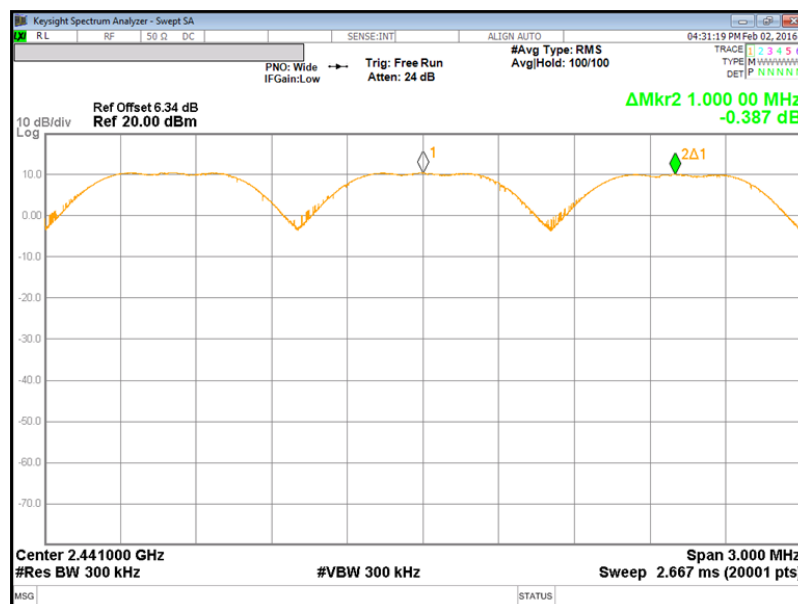
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

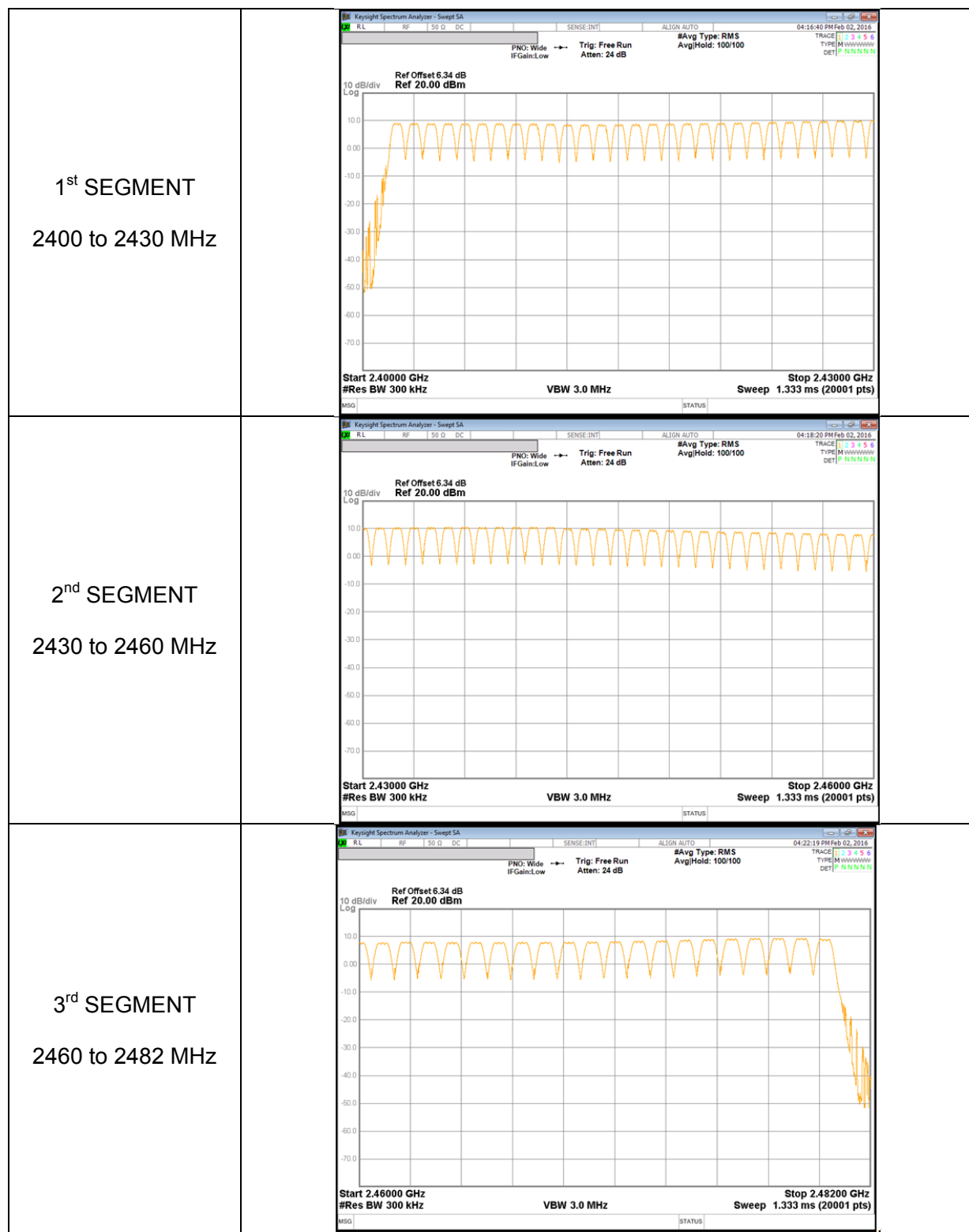
TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer. The RBW is set to 300 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

RESULTS

HOPPING FREQUENCY SEPARATION PLOT





8.4. AVERAGE TIME OF OCCUPANCY

LIMIT

FCC §15.247 (a) (1) (iii)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

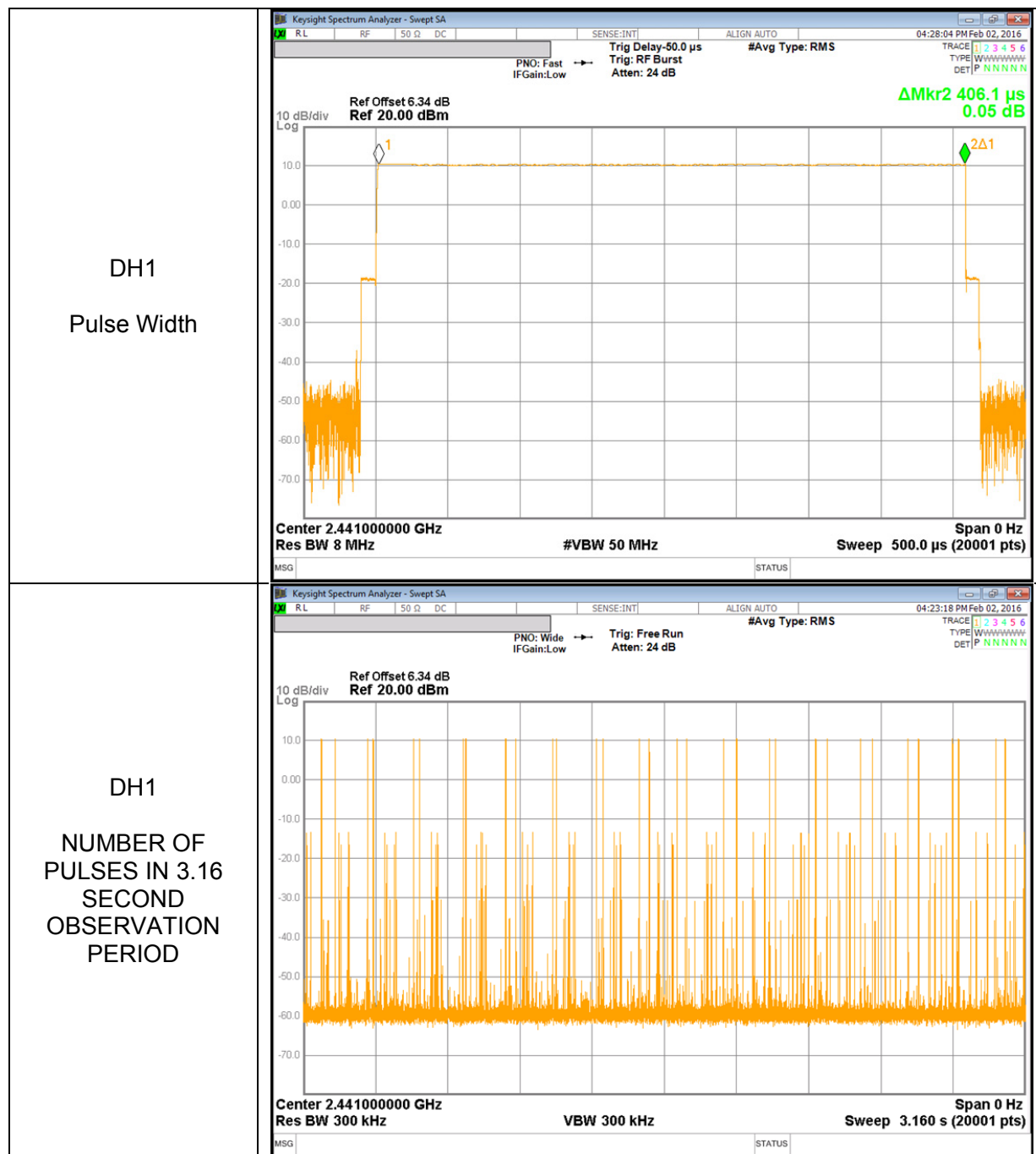
The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{ pulse width}$.

For AFH mode, the average time of occupancy in the specified 8 second period (20 channels * 0.4 seconds) is equal to $10 * (\# \text{ of pulses in } 0.8 \text{ s}) * \text{ pulse width}$.

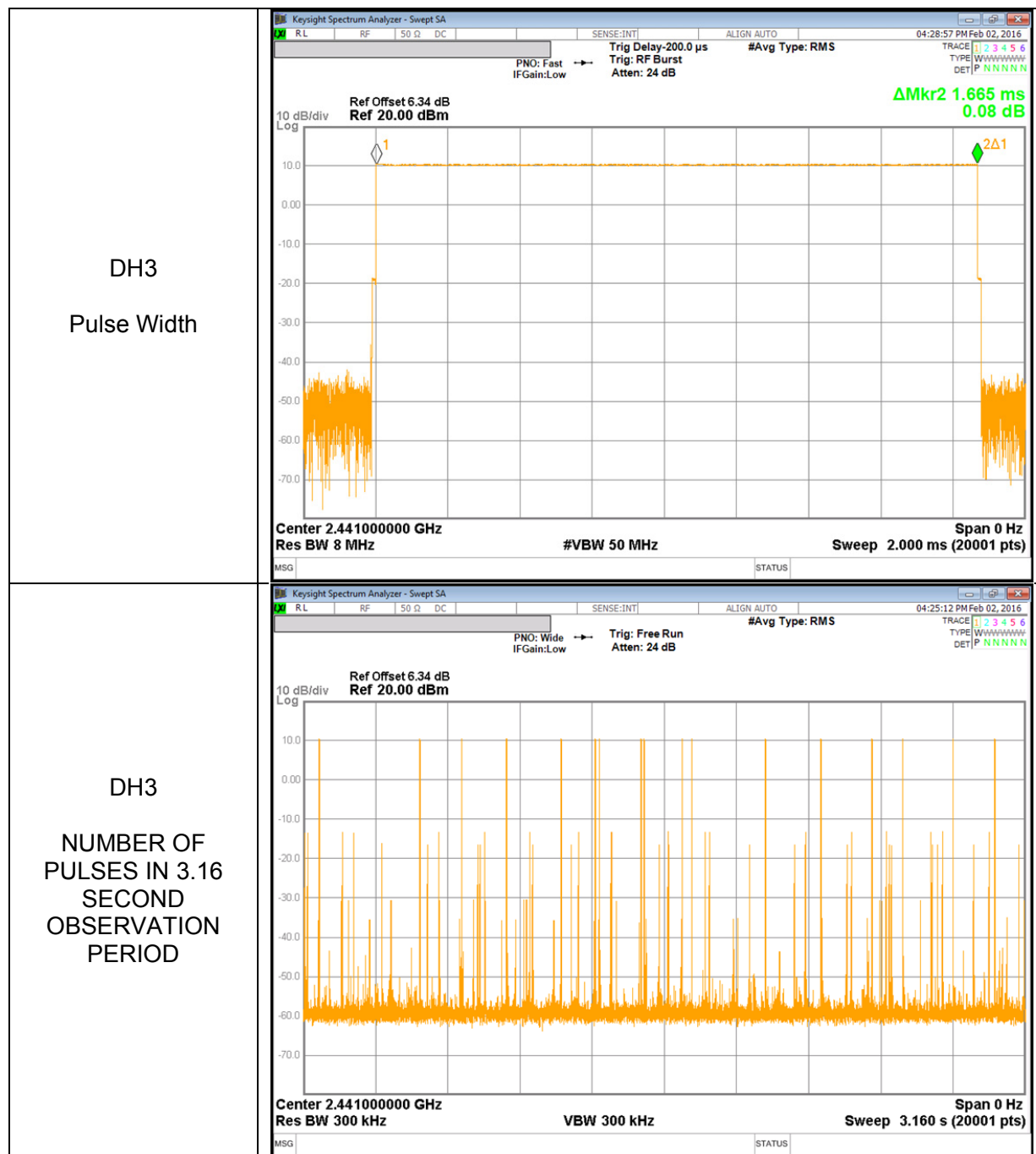
RESULTS

DH Packet	Pulse Width [msec]	Number of Pulses in 3.16 seconds	Average Time of Occupancy [sec]	Limit [sec]	Margin [sec]
GFSK Normal					
DH1	0.406	32	0.129952	0.4	-0.2700
DH3	1.665	17	0.283050	0.4	-0.1170
DH5	2.915	13	0.378950	0.4	-0.0211
GFSK AFH					
DH Packet	Pulse Width [msec]	Number of Pulses in 0.8 seconds	Average Time of Occupancy [sec]	Limit [sec]	Margin [sec]
GFSK AFH					
DH1	0.406	8	0.032488	0.4	-0.36751
DH3	1.665	4.25	0.070763	0.4	-0.32924
DH5	2.915	3.25	0.094738	0.4	-0.30526

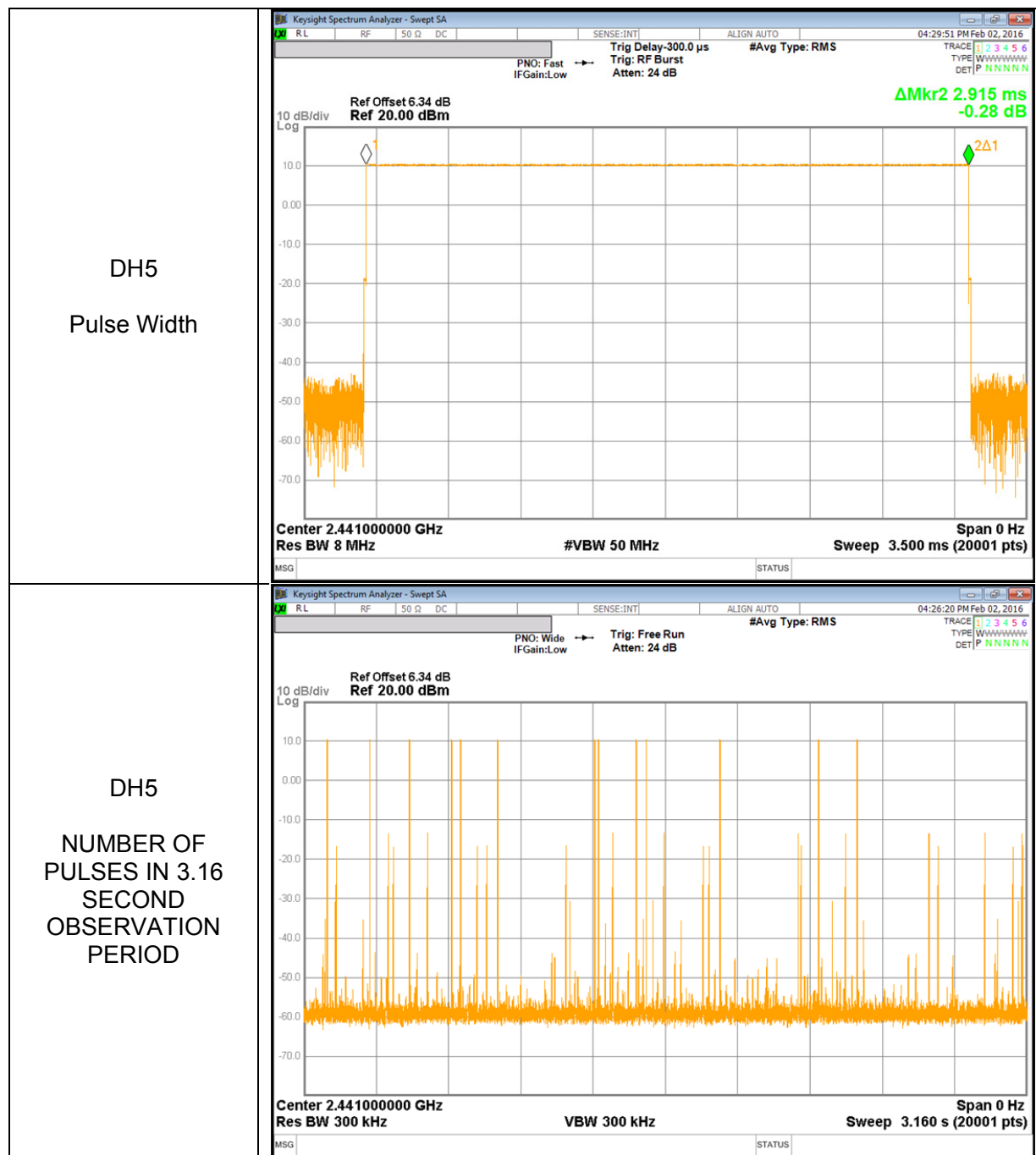
DH1



DH3



DH5



8.5. OUTPUT POWER

LIMIT

§15.247 (b) (1)

The maximum antenna gain is less than 6 dBi, therefore the limit is 21 dBm.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer the analyzer bandwidth is set to a value greater than the 20 dB bandwidth of the EUT.

RESULTS

8.5.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency [MHz]	Output Power [dBm]	Limit [dBm]	Margin [dB]
Low	2402	12.240	21	-8.76
Middle	2441	11.835	21	-9.165
High	2480	12.310	21	-8.69
Worst		12.310	21	-8.69

8.5.2. ENHANCED DATA RATE Pi/4-DPSK MODULATION

Channel	Frequency [MHz]	Output Power [dBm]	Limit [dBm]	Margin [dB]
Low	2402	13.425	21	-7.575
Middle	2441	13.006	21	-7.994
High	2480	13.383	21	-7.617
Worst		13.425	21	-7.575

8.5.3. ENHANCED DATA RATE 8PSK MODULATION

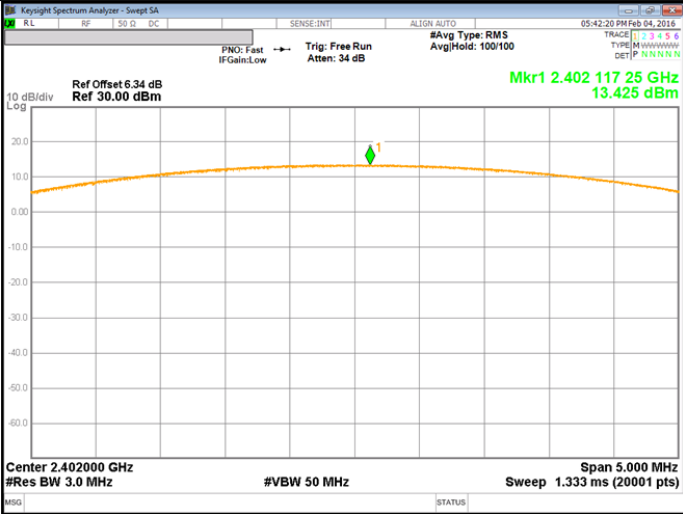
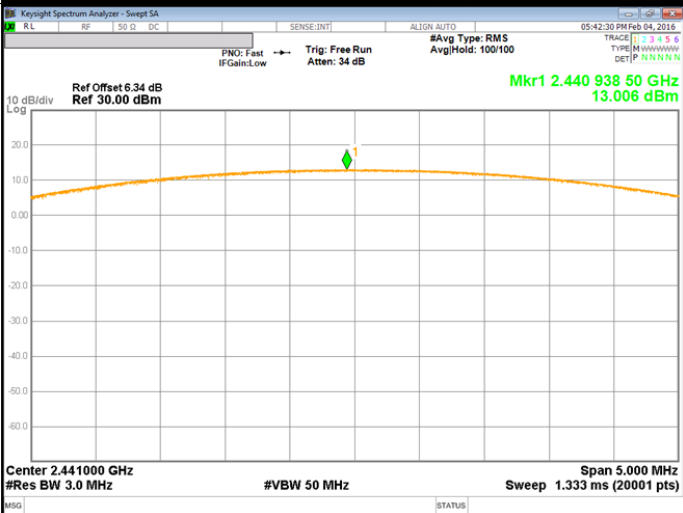
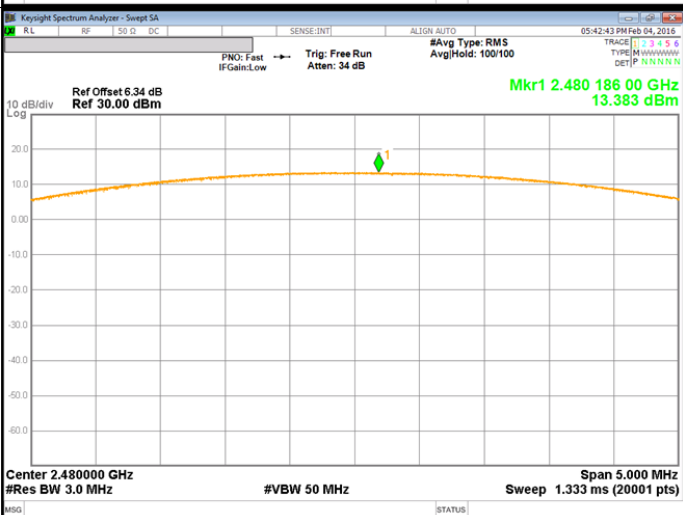
Channel	Frequency [MHz]	Output Power [dBm]	Limit [dBm]	Margin [dB]
Low	2402	13.825	21	-7.175
Middle	2441	13.373	21	-7.627
High	2480	13.742	21	-7.258
Worst		13.825	21	-7.175

8.5.4. OUTPUT POWER PLOTS

GFSK OUTPUT POWER

<p>GFSK Low CH</p>	<p>KeySight Spectrum Analyzer - Sweep SA 05:41:47 PM Feb 04, 2016 PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB #Avg Type: RMS AvgHold: 100/100 Ref Offset 6.34 dB Ref 30.00 dBm Mkr1 2.401 885 75 GHz 12.240 dBm 10 dB/div Log Center 2.402000 GHz #Res BW 3.0 MHz #VBW 50 MHz Span 5.000 MHz Sweep 1.333 ms (20001 pts)</p>
<p>GFSK Middle CH</p>	<p>KeySight Spectrum Analyzer - Sweep SA 05:41:57 PM Feb 04, 2016 PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB #Avg Type: RMS AvgHold: 100/100 Ref Offset 6.34 dB Ref 30.00 dBm Mkr1 2.441 882 75 GHz 11.835 dBm 10 dB/div Log Center 2.441000 GHz #Res BW 3.0 MHz #VBW 50 MHz Span 5.000 MHz Sweep 1.333 ms (20001 pts)</p>
<p>GFSK High CH</p>	<p>KeySight Spectrum Analyzer - Sweep SA 05:42:06 PM Feb 04, 2016 PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB #Avg Type: RMS AvgHold: 100/100 Ref Offset 6.34 dB Ref 30.00 dBm Mkr1 2.479 711 50 GHz 12.310 dBm 10 dB/div Log Center 2.480000 GHz #Res BW 3.0 MHz #VBW 50 MHz Span 5.000 MHz Sweep 1.333 ms (20001 pts)</p>

Pi/4-DPSK OUTPUT POWER

<p>Pi/4-DPSK Low CH</p>	
<p>Pi/4-DPSK Middle CH</p>	
<p>Pi/4-DPSK High CH</p>	

8PSK OUTPUT POWER

<p>8PSK Low CH</p>	<p>KeySight Spectrum Analyzer - Swept SA RL RF 50 Ω DC SENSE:INT ALIGN: AUTO 05:42:56 PM Feb 04, 2016 PNO: Fast IF Gain: Low Trig: Free Run #Avg Type: RMS AvgHold: 100/100 Ref Offset 6.34 dB Ref 30.00 dBm Mkr1 2.402 013 25 GHz 13.825 dBm 10 dB/div Log Center 2.402000 GHz #Res BW 3.0 MHz #VBW 50 MHz Span 5.000 MHz Sweep 1.333 ms (20001 pts)</p>
<p>8PSK Middle CH</p>	<p>KeySight Spectrum Analyzer - Swept SA RL RF 50 Ω DC SENSE:INT ALIGN: AUTO 05:43:08 PM Feb 04, 2016 PNO: Fast IF Gain: Low Trig: Free Run #Avg Type: RMS AvgHold: 100/100 Ref Offset 6.34 dB Ref 30.00 dBm Mkr1 2.440 969 50 GHz 13.373 dBm 10 dB/div Log Center 2.441000 GHz #Res BW 3.0 MHz #VBW 50 MHz Span 5.000 MHz Sweep 1.333 ms (20001 pts)</p>
<p>8PSK High CH</p>	<p>KeySight Spectrum Analyzer - Swept SA RL RF 50 Ω DC SENSE:INT ALIGN: AUTO 05:43:20 PM Feb 04, 2016 PNO: Fast IF Gain: Low Trig: Free Run #Avg Type: RMS AvgHold: 100/100 Ref Offset 6.34 dB Ref 30.00 dBm Mkr1 2.480 028 00 GHz 13.742 dBm 10 dB/div Log Center 2.480000 GHz #Res BW 3.0 MHz #VBW 50 MHz Span 5.000 MHz Sweep 1.333 ms (20001 pts)</p>

8.6. AVERAGE POWER

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a power meter.

RESULTS

The cable assembly insertion loss of 10.1 dB (including 10 dB pad and 0.1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

8.6.1. BASIC DATA RATE GFSK MODULATION

Channel	Frequency [MHz]	AV power [dBm]	AV power [mW]
Low	2402	11.848	15.30
Middle	2441	11.367	13.70
High	2480	11.959	15.70

8.6.2. DATA RATE PI/4-DQPSK MODULATION

Channel	Frequency [MHz]	AV power [dBm]	AV power [mW]
Low	2402	11.358	13.67
Middle	2441	10.933	12.40
High	2480	11.479	14.06

8.6.3. ENHANCED DATA RATE 8PSK MODULATION

Channel	Frequency [MHz]	AV power [dBm]	AV power [mW]
Low	2402	11.376	13.73
Middle	2441	10.965	12.49
High	2480	11.490	14.09

8.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

Limit = -20 dBc

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

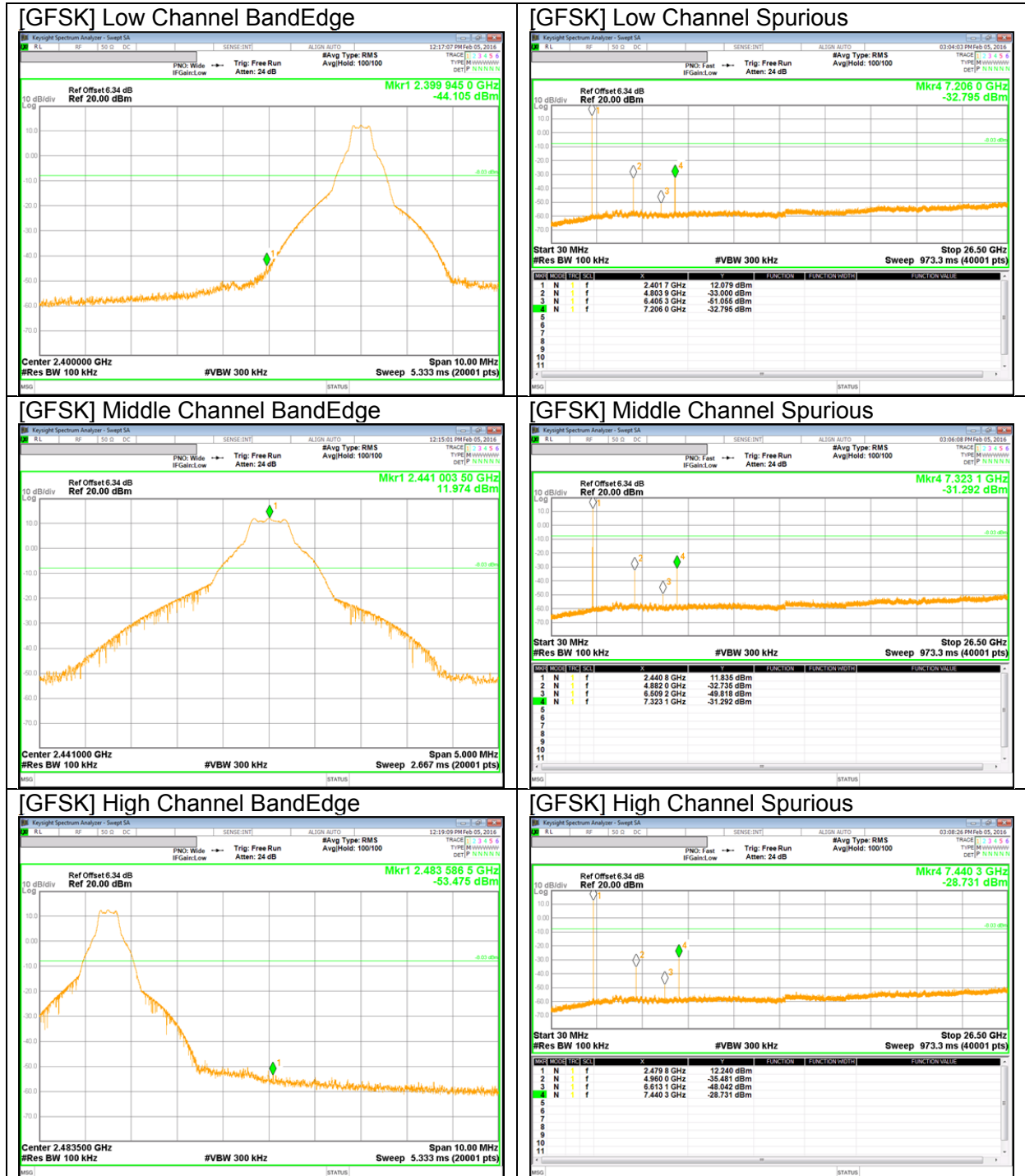
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

RESULTS

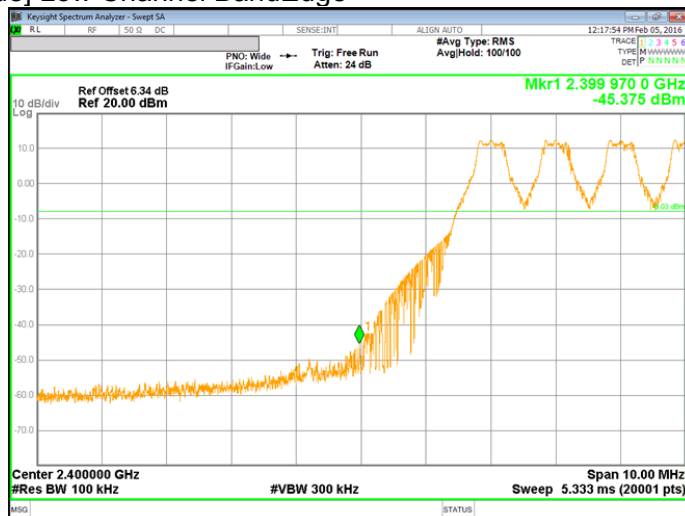
8.7.1. BASIC DATA RATE GFSK MODULATION

GFSK Mode

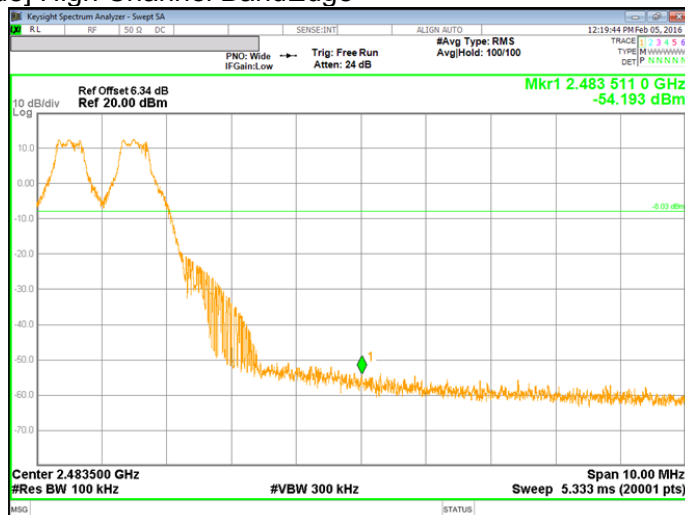


BandEdge Emission at GFSK Hopping Mode

[GFSK Hopping Mode] Low Channel BandEdge



[GFSK Hopping Mode] High Channel BandEdge

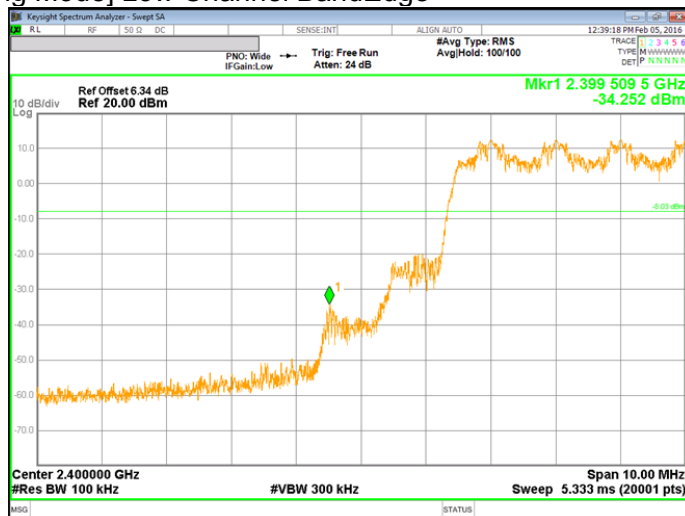


PI/4-DQPSK Mode



BandEdge Emission at PI/4-DQPSK Hopping Mode

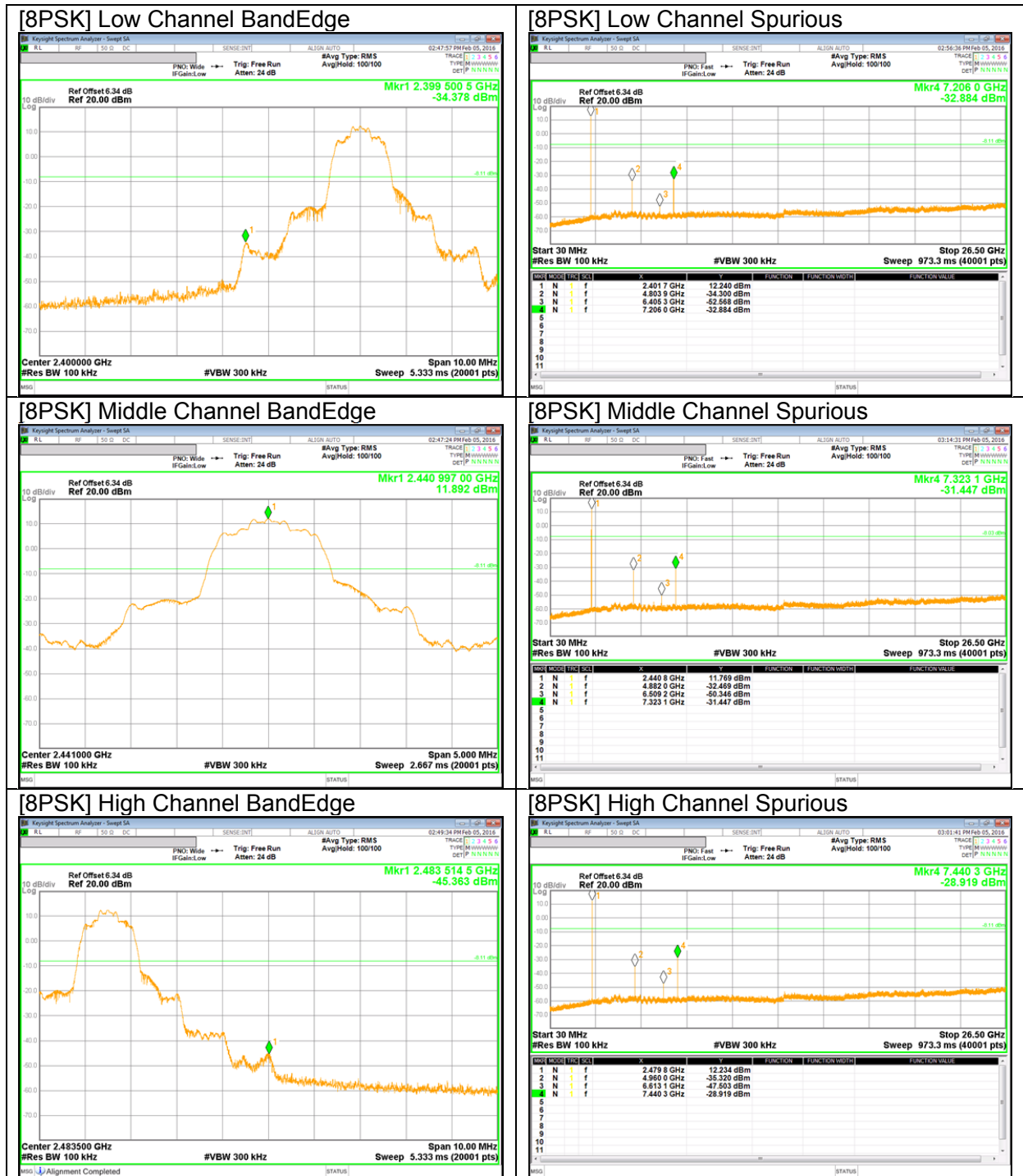
[PI/4-DQPSK Hopping Mode] Low Channel BandEdge



[PI/4-DQPSK Hopping Mode] High Channel BandEdge

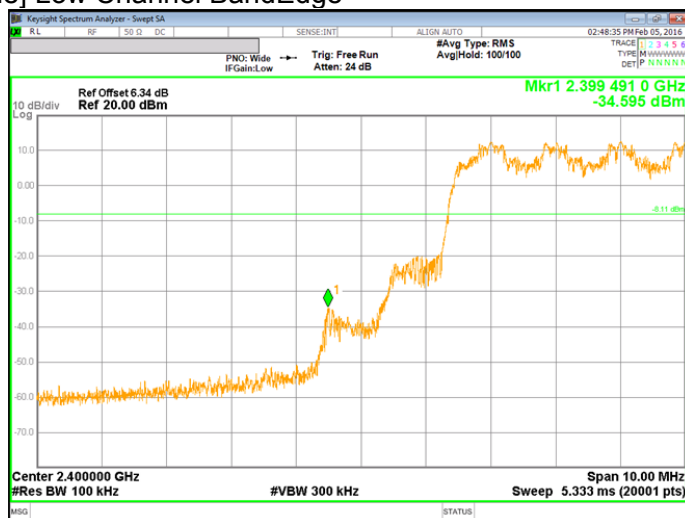


8PSK Mode

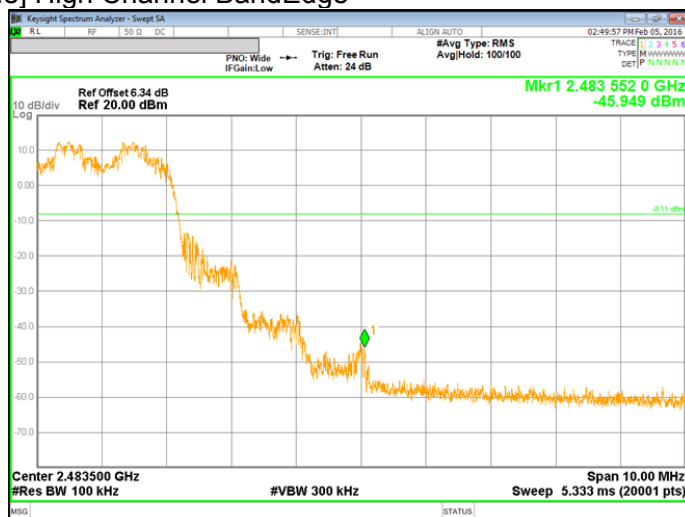


BandEdge Emission at 8PSK Hopping Mode

[8PSK Hopping Mode] Low Channel BandEdge



[8PSK Hopping Mode] High Channel BandEdge



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. 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 band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement.

$GFSK = 1/T = 1 / 0.0029S = 350Hz.$

The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

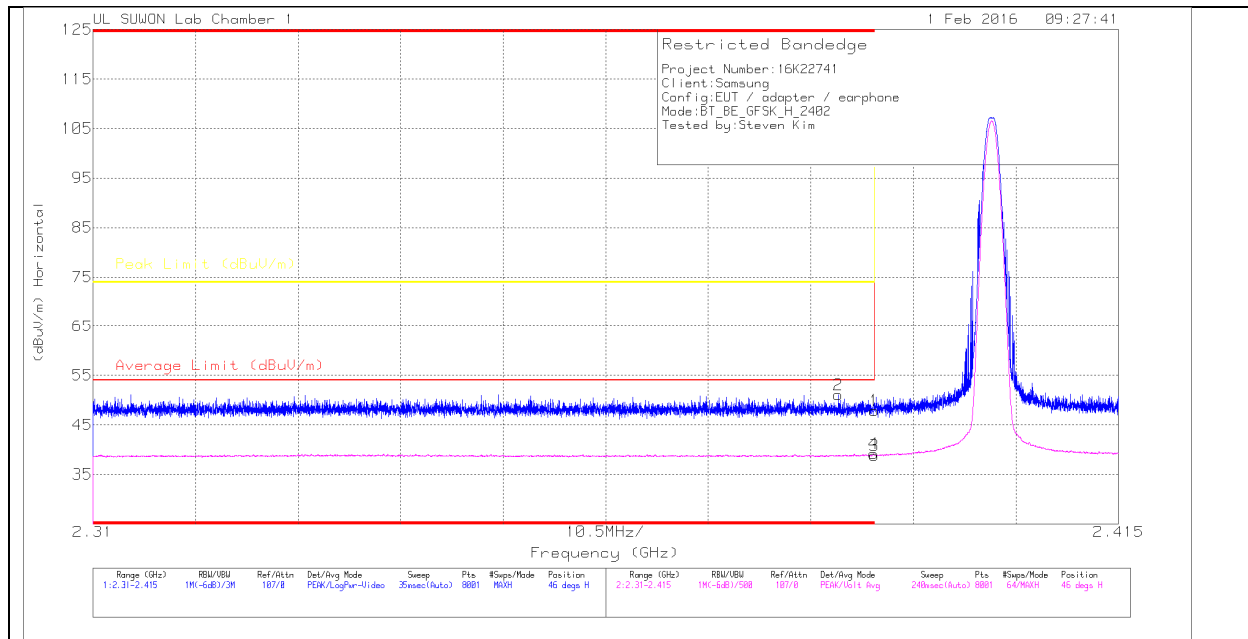
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

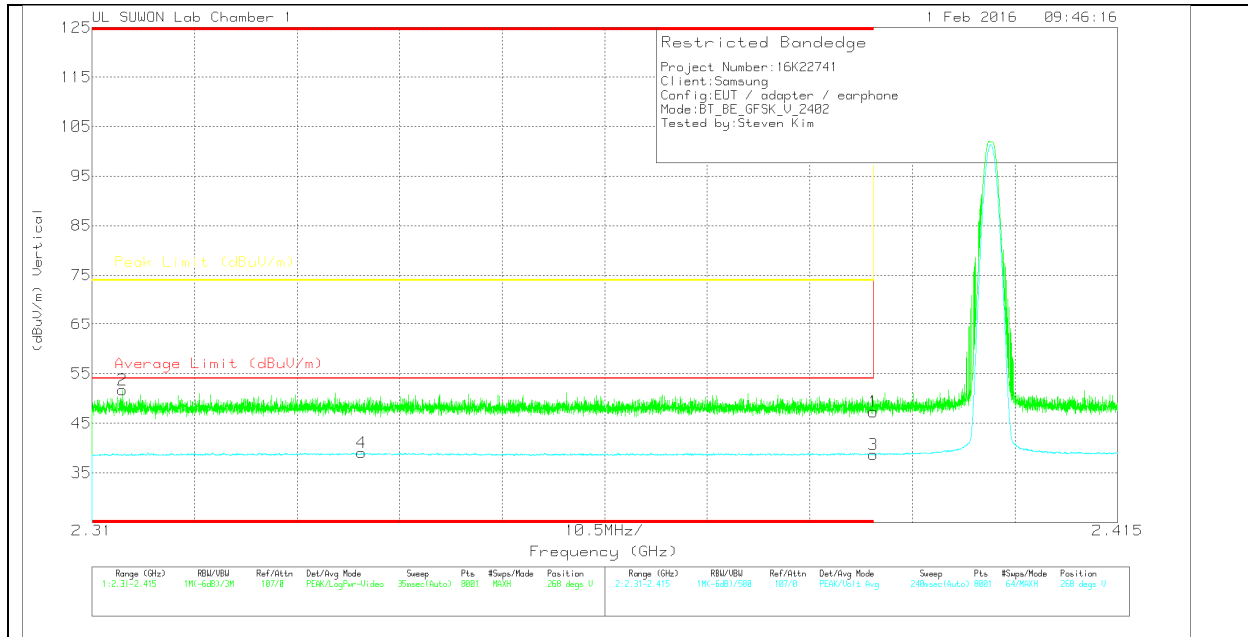
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	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	45.11	Pk	31.8	-29	47.91	-	-	74	-26.09	46	102	H
2	* 2.386	48.32	Pk	31.8	-29	51.12	-	-	74	-22.88	46	102	H
3	* 2.39	35.97	V1TV	31.8	-29	38.77	54	-15.23	-	-	46	102	H
4	* 2.39	36.35	V1TV	31.8	-29	39.15	54	-14.85	-	-	46	102	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

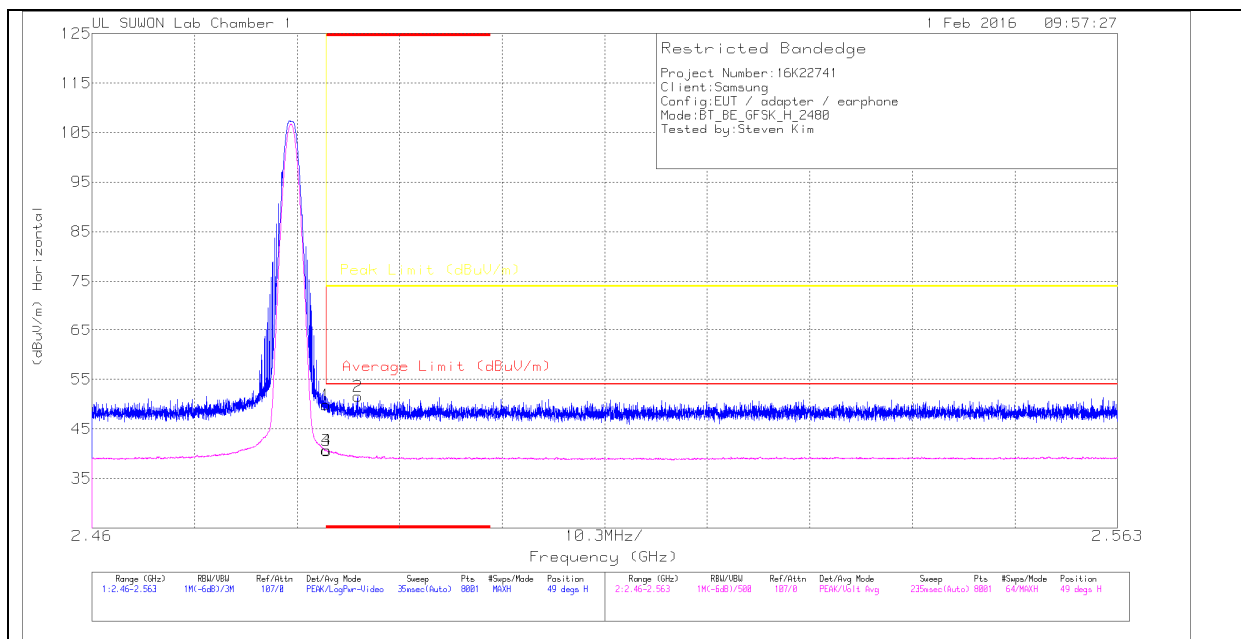
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.5	Pk		-29	47.3	-	-	74	-26.7	268	374	V
2	* 2.313	49.08	Pk		-29.1	51.68	-	-	74	-22.32	268	374	V
3	* 2.39	35.94	V1TV		-29	38.74	54	-15.26	-	-	268	374	V
4	* 2.338	36.33	V1TV		-29	39.03	54	-14.97	-	-	268	374	V

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

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

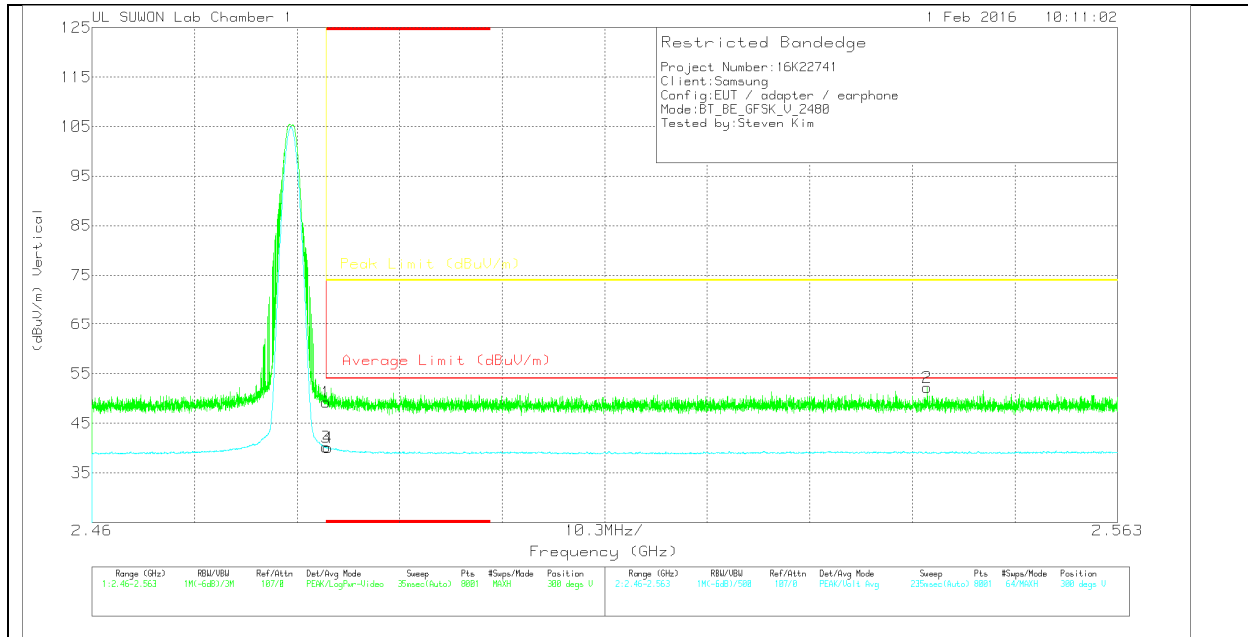
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	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	46.71	Pk	32	-28.9	49.81	-	-	74	-24.19	49	103	H
2	* 2.487	48.43	Pk	32	-28.9	51.53	-	-	74	-22.47	49	103	H
3	* 2.484	37.56	V1TV	32	-28.9	40.66	54	-13.34	-	-	49	103	H
4	* 2.484	37.52	V1TV	32	-28.9	40.62	54	-13.38	-	-	49	103	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

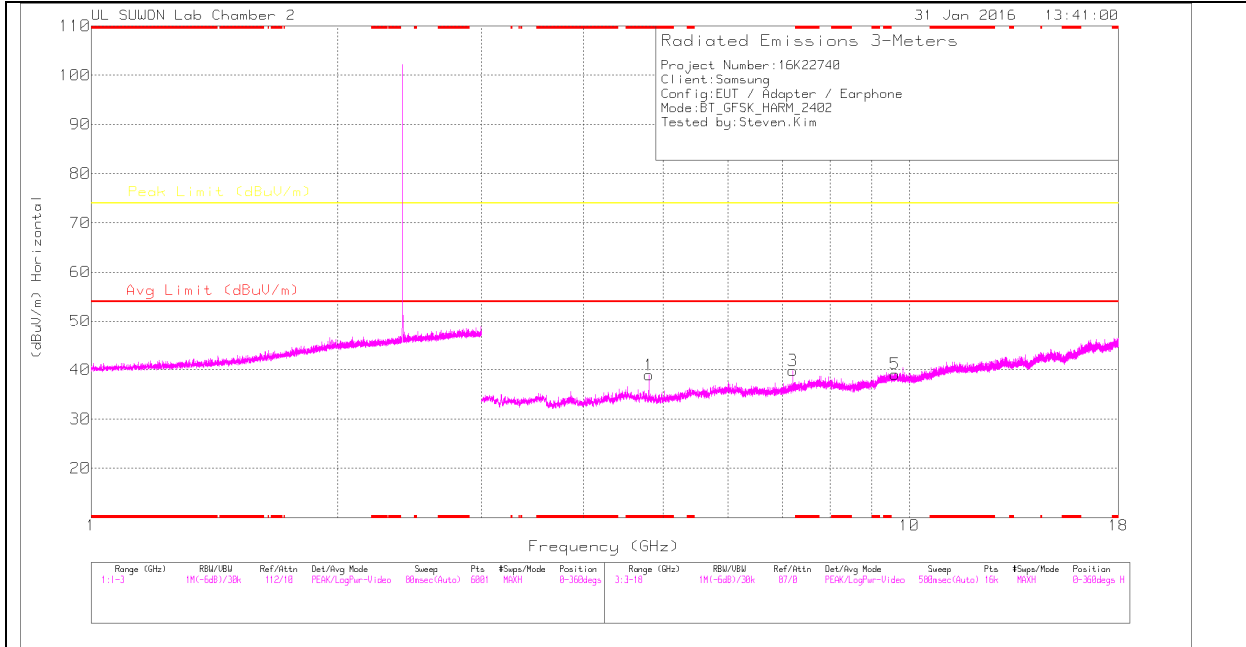
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.09	Pk	32	-28.9	49.19	-	-	74	-24.81	300	281	V
2	2.544	48.95	Pk	32	-28.8	52.15	-	-	74	-21.85	300	281	V
3	* 2.484	37.07	V1TV	32	-28.9	40.17	54	-13.83	-	-	300	281	V
4	* 2.484	36.98	V1TV	32	-28.9	40.08	54	-13.92	-	-	300	281	V

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

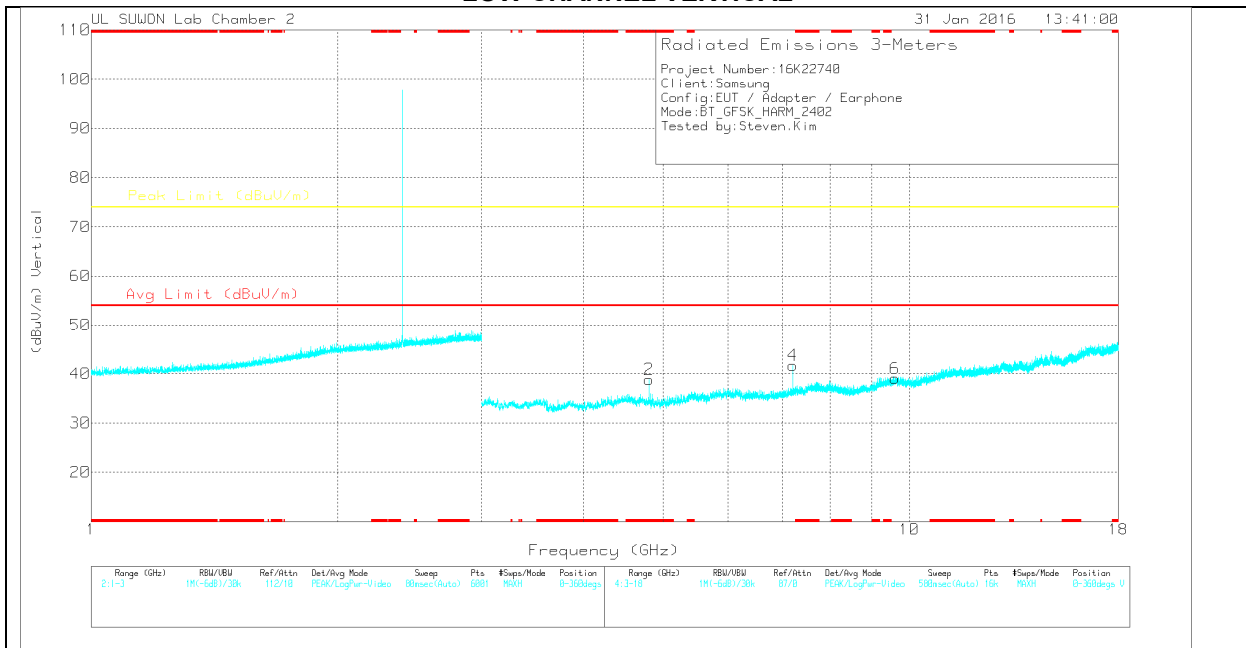
Pk - Peak detector

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	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.804	30.3	PK	33.9	-25.3	38.9	-	-	74	-35.1	0-360	100	H
3	7.206	27.01	PK	35.8	-23	39.81	-	-	74	-34.19	0-360	100	H
5	9.608	21.31	PK	36.9	-19.1	39.11	-	-	74	-34.89	0-360	200	H
2	* 4.804	30.24	PK	33.9	-25.3	38.84	-	-	74	-35.16	0-360	100	V
4	7.205	28.81	PK	35.8	-22.9	41.71	-	-	74	-32.29	0-360	200	V
6	9.608	21.25	PK	36.9	-19.1	39.05	-	-	74	-34.95	0-360	200	V

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

PK – Peak detector

Radiated Emissions

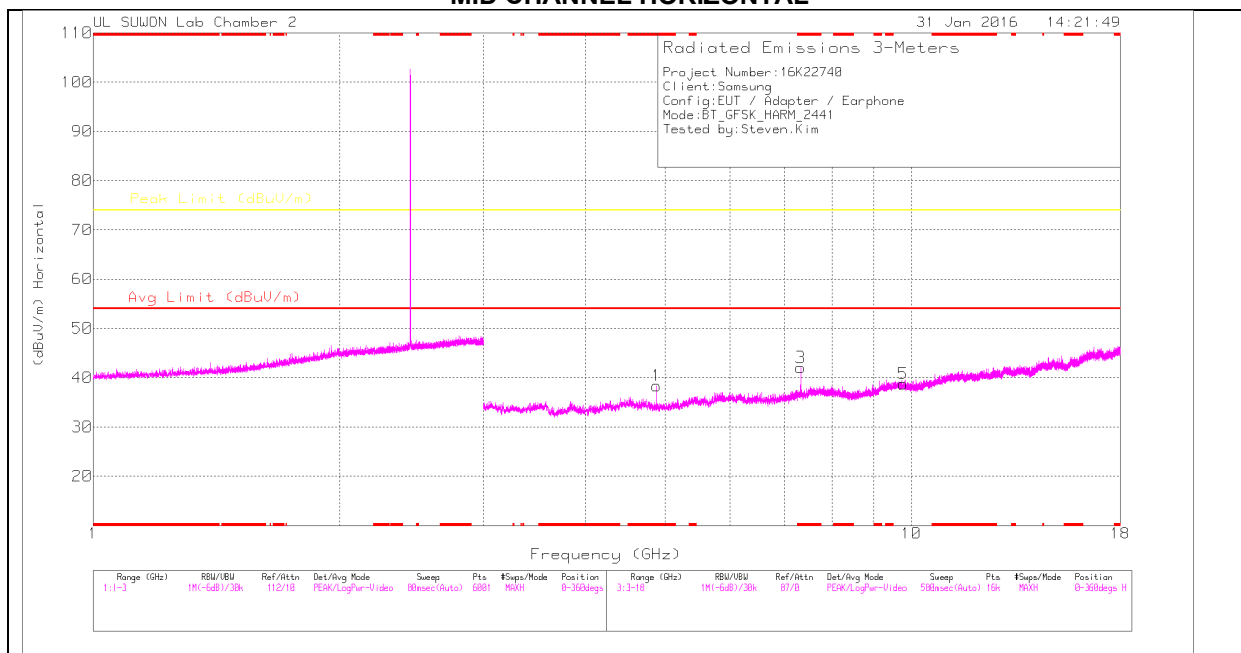
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.804	39.67	PK2	33.9	-25.3	48.27	-	-	74	-25.73	170	320	H
* 4.804	30.23	VA1T	33.9	-25.3	38.83	54	-15.17	-	-	170	320	H
7.205	36.48	PK2	35.8	-22.9	49.38	-	-	74	-24.62	170	358	H
* 4.804	39.87	PK2	33.9	-25.3	48.47	-	-	74	-25.53	74	334	V
* 4.804	31.21	VA1T	33.9	-25.3	39.81	54	-14.19	-	-	74	334	V
7.207	37.58	PK2	35.8	-23	50.38	-	-	74	-23.62	356	100	V

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

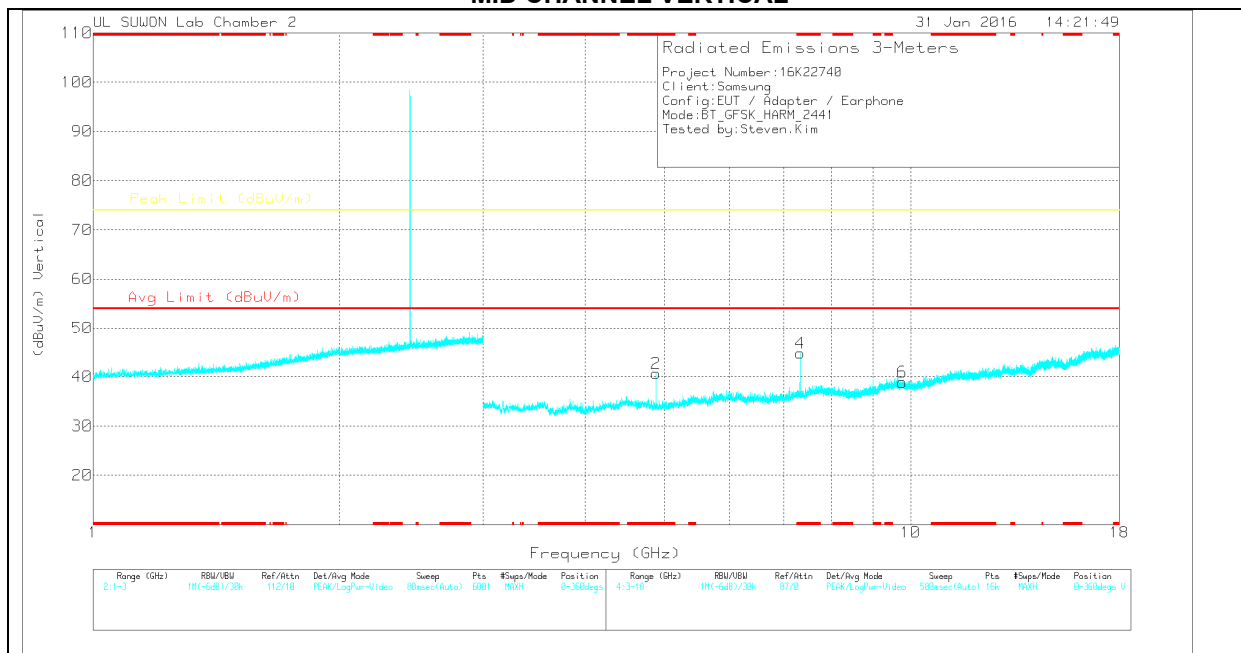
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

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	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.881	29.67	PK	33.9	-25.2	38.37	-	-	74	-35.63	0-360	200	H
3	* 7.323	28.65	PK	35.9	-22.5	42.05	-	-	74	-31.95	0-360	200	H
5	9.765	21.06	PK	37	-19.3	38.76	-	-	74	-35.24	0-360	200	H
2	* 4.881	31.95	PK	33.9	-25.2	40.65	-	-	74	-33.35	0-360	100	V
4	* 7.323	31.35	PK	35.9	-22.5	44.75	-	-	74	-29.25	0-360	100	V
6	9.765	21.17	PK	37	-19.3	38.87	-	-	74	-35.13	0-360	100	V

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

PK – Peak detector

Radiated Emissions

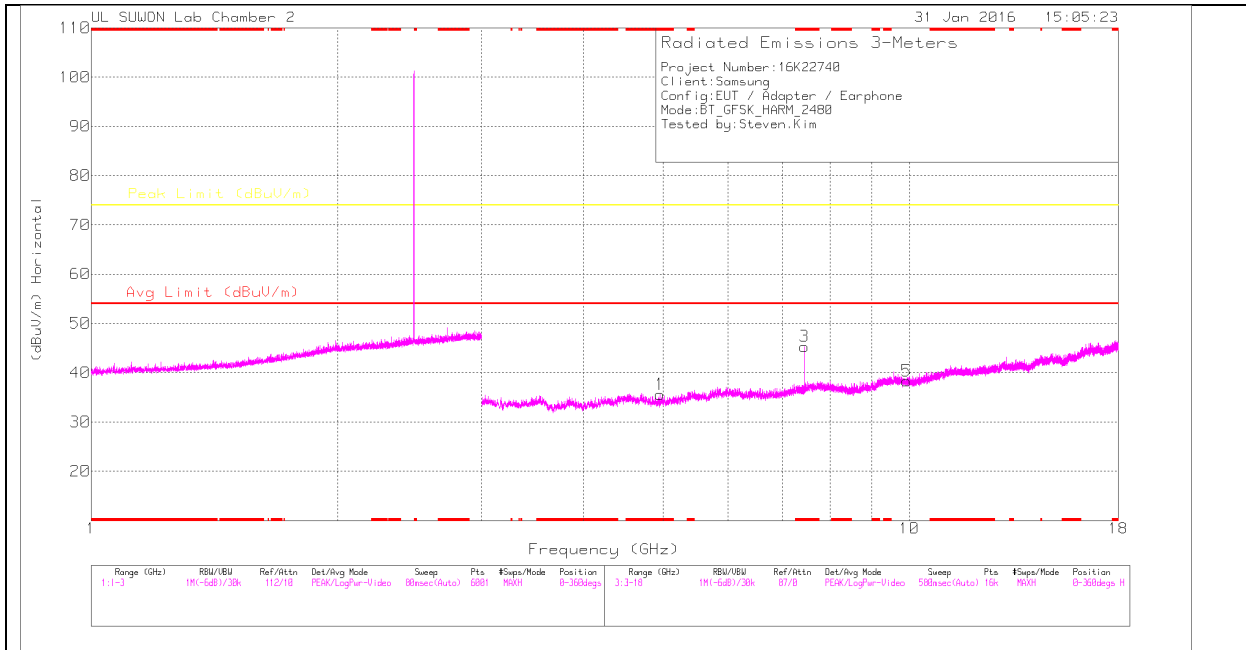
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.882	39.19	PK2	33.9	-25.2	47.89	-	-	74	-26.11	172	133	H
* 4.882	29.7	VA1T	33.9	-25.2	38.4	54	-15.6	-	-	172	133	H
* 7.324	37.89	PK2	35.9	-22.5	51.29	-	-	74	-22.71	133	332	H
* 7.323	28.92	VA1T	35.9	-22.5	42.32	54	-11.68	-	-	133	332	H
* 4.882	40.78	PK2	33.9	-25.2	49.48	-	-	74	-24.52	277	104	V
* 4.882	32.67	VA1T	33.9	-25.2	41.37	54	-12.63	-	-	277	104	V
* 7.323	39.71	PK2	35.9	-22.5	53.11	-	-	74	-20.89	170	300	V
* 7.323	32.86	VA1T	35.9	-22.5	46.26	54	-7.74	-	-	170	300	V

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

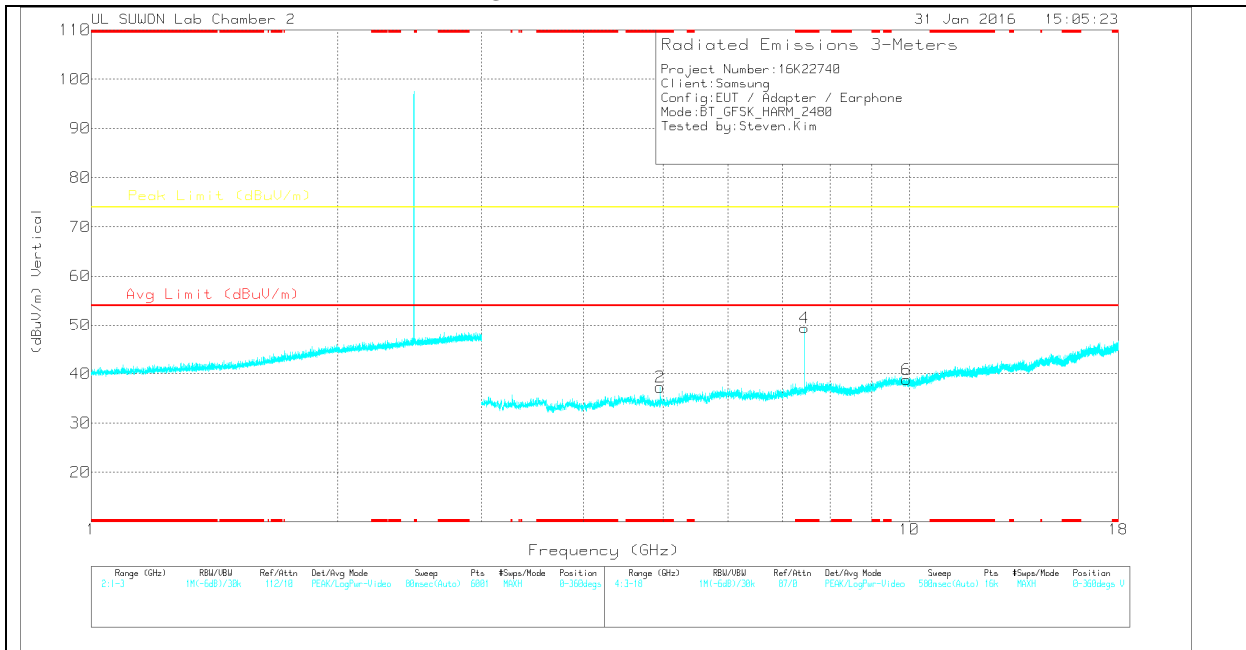
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

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	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.96	26.71	PK	33.9	-25	35.61	-	-	74	-38.39	0-360	100	H
3	* 7.44	31.43	PK	36	-22.1	45.33	-	-	74	-28.67	0-360	100	H
5	9.922	20.13	PK	37.2	-19	38.33	-	-	74	-35.67	0-360	200	H
2	* 4.96	28.37	PK	33.9	-25	37.27	-	-	74	-36.73	0-360	100	V
4	* 7.44	35.53	PK	36	-22.1	49.43	-	-	74	-24.57	0-360	100	V
6	9.92	20.7	PK	37.1	-19	38.8	-	-	74	-35.2	0-360	100	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.439	39.19	PK2	36	-22.1	53.09	-	-	74	-20.91	124	180	H
* 7.44	31.75	VA1T	36	-22.1	45.65	54	-8.35	-	-	124	180	H
* 7.44	41.04	PK2	36	-22.1	54.94	-	-	74	-19.06	74	165	V
* 7.44	35.83	VA1T	36	-22.1	49.73	54	-4.27	-	-	74	165	V

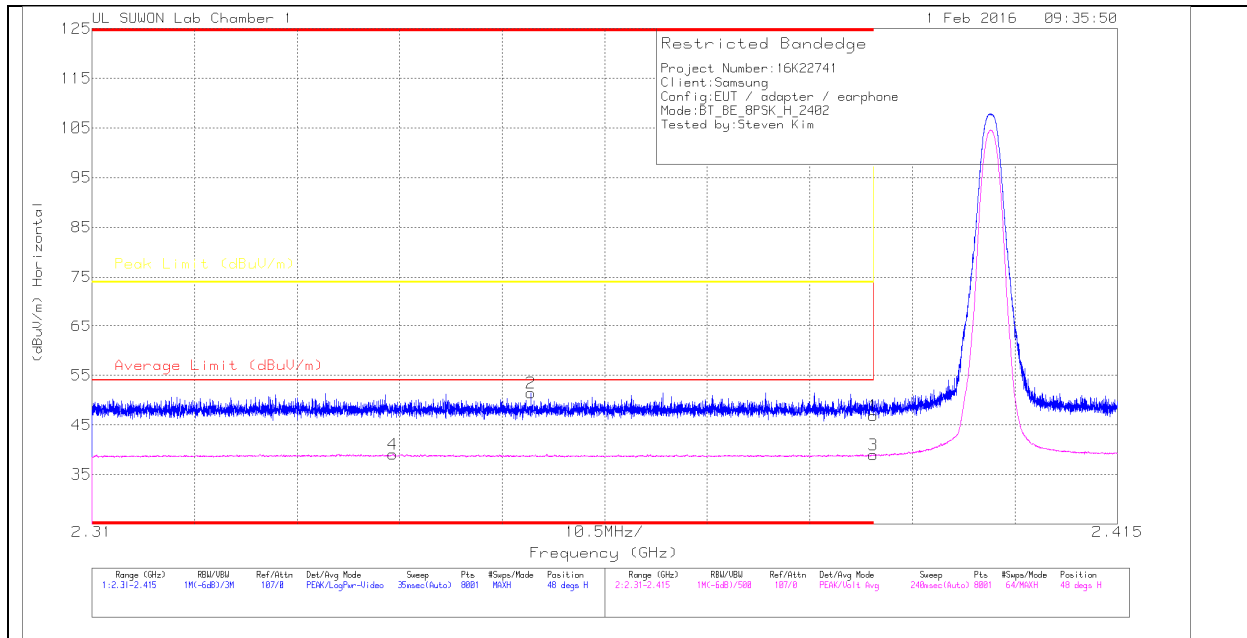
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

9.2.2. ENHANCED DATA RATE 8PSK MODULATION RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

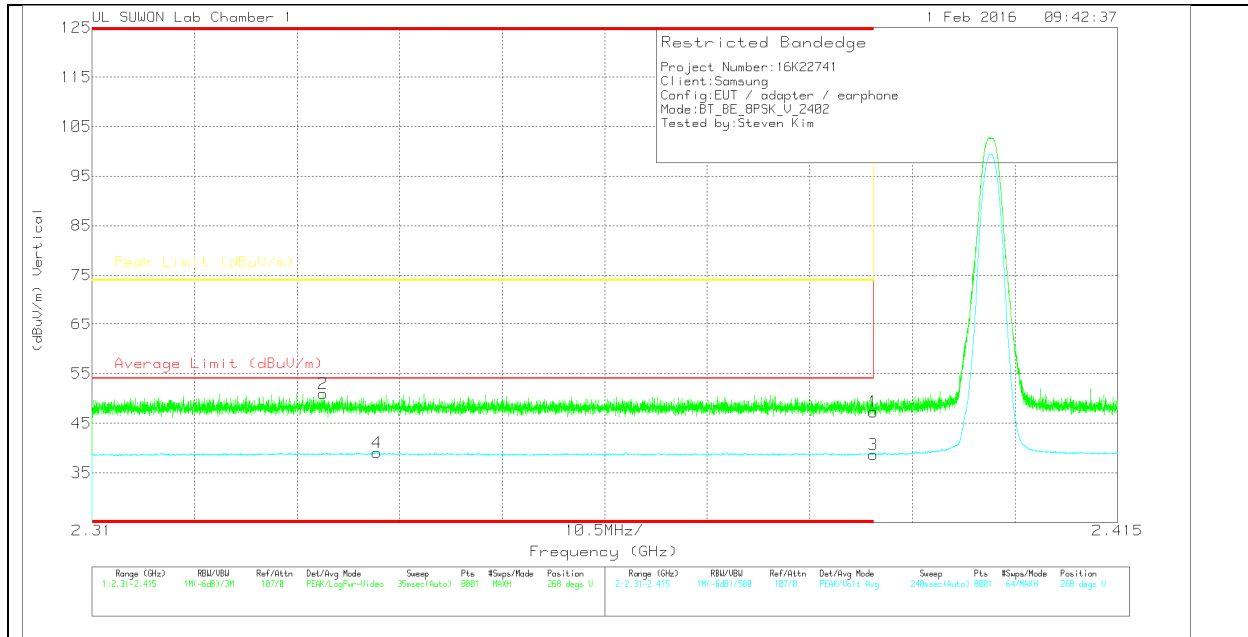
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	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	44.06	Pk		-29	46.86	-	-	74	-27.14	48	102	H
2	* 2.355	48.78	Pk		-29	51.48	-	-	74	-22.52	48	102	H
3	* 2.39	36.18	V1TV		-29	38.98	54	-15.02	-	-	48	102	H
4	* 2.341	36.4	V1TV		-29	39.1	54	-14.9	-	-	48	102	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

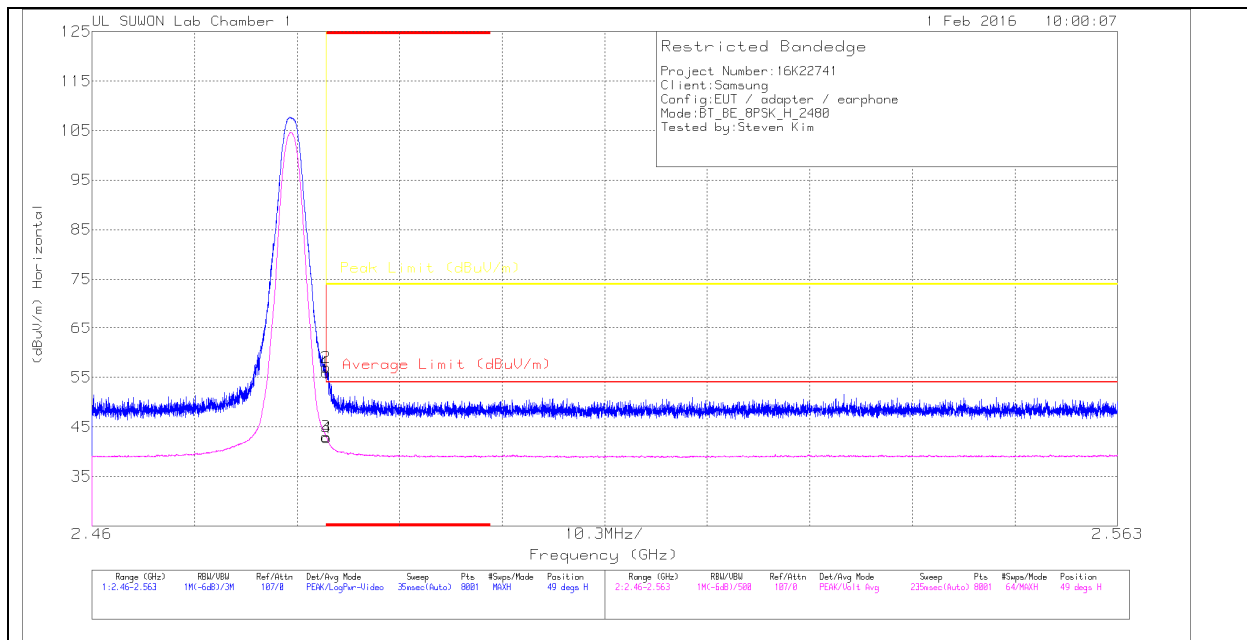
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.339	44.5	Pk	31.8	-29	47.3	-	-	74	-26.7	268	374	V
2	* 2.334	48.29	Pk	31.7	-29	50.99	-	-	74	-23.01	268	374	V
3	* 2.39	35.91	V1TV	31.8	-29	38.71	54	-15.29	-	-	268	374	V
4	* 2.339	36.36	V1TV	31.7	-29	39.06	54	-14.94	-	-	268	374	V

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

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

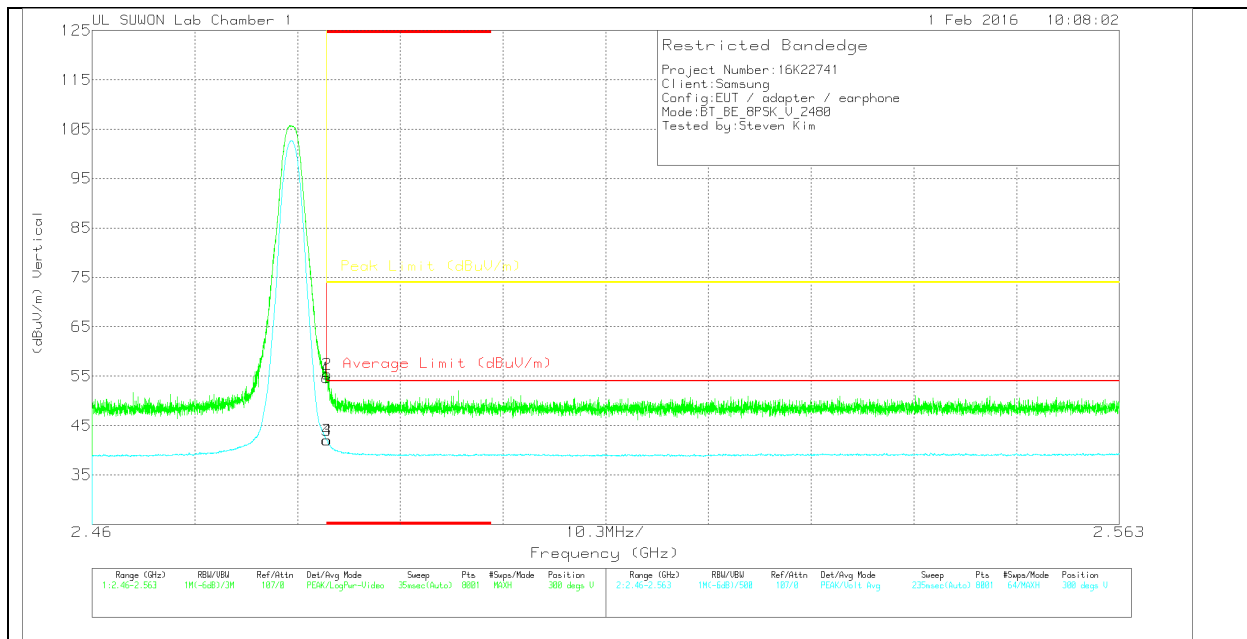
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	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	52.94	Pk	32	-28.9	56.04	-	-	74	-17.96	49	103	H
2	* 2.484	53.89	Pk	32	-28.9	56.99	-	-	74	-17.01	49	103	H
3	* 2.484	39.94	V1TV	32	-28.9	43.04	54	-10.96	-	-	49	103	H
4	* 2.484	39.69	V1TV	32	-28.9	42.79	54	-11.21	-	-	49	103	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

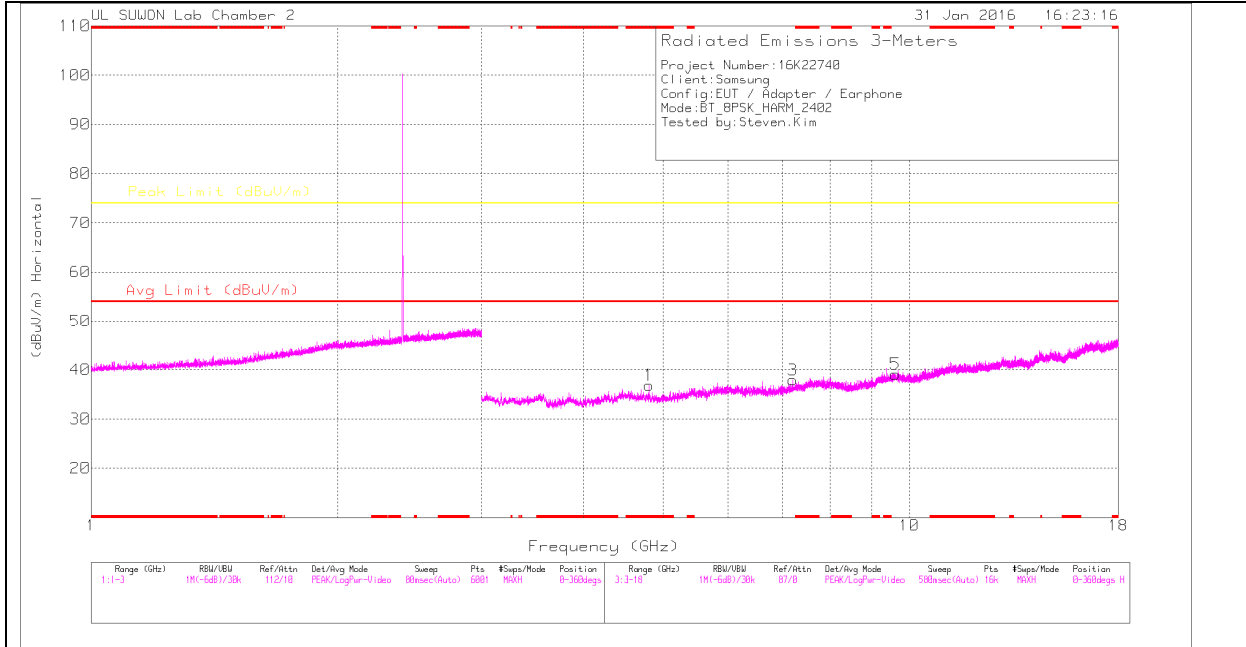
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.52	Pk	32	-28.9	54.62	-	-	74	-19.38	300	281	V
2	* 2.484	52.25	Pk	32	-28.9	55.35	-	-	74	-18.65	300	281	V
3	* 2.484	38.95	V1TV	32	-28.9	42.05	54	-11.95	-	-	300	281	V
4	* 2.484	38.96	V1TV	32	-28.9	42.06	54	-11.94	-	-	300	281	V

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

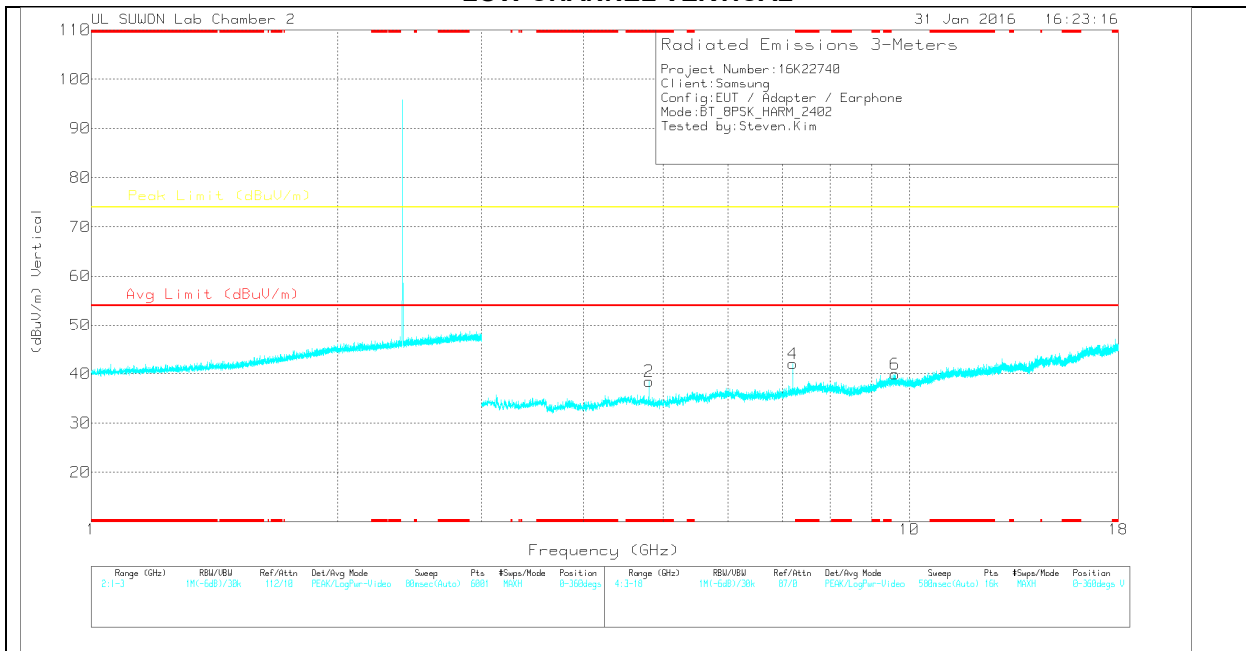
Pk - Peak detector

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	3117(00168 724)_15061 9	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.804	28.24	PK	33.9	-25.3	36.84	-	-	74	-37.16	0-360	100	H
3	7.206	25.11	PK	35.8	-23	37.91	-	-	74	-36.09	0-360	200	H
5	9.609	21.3	PK	36.9	-19.1	39.1	-	-	74	-34.9	0-360	200	H
2	* 4.804	29.85	PK	33.9	-25.3	38.45	-	-	74	-35.55	0-360	100	V
4	7.205	29.1	PK	35.8	-22.9	42	-	-	74	-32	0-360	200	V
6	9.608	22.11	PK	36.9	-19.1	39.91	-	-	74	-34.09	0-360	200	V

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

PK – Peak detector

Radiated Emissions

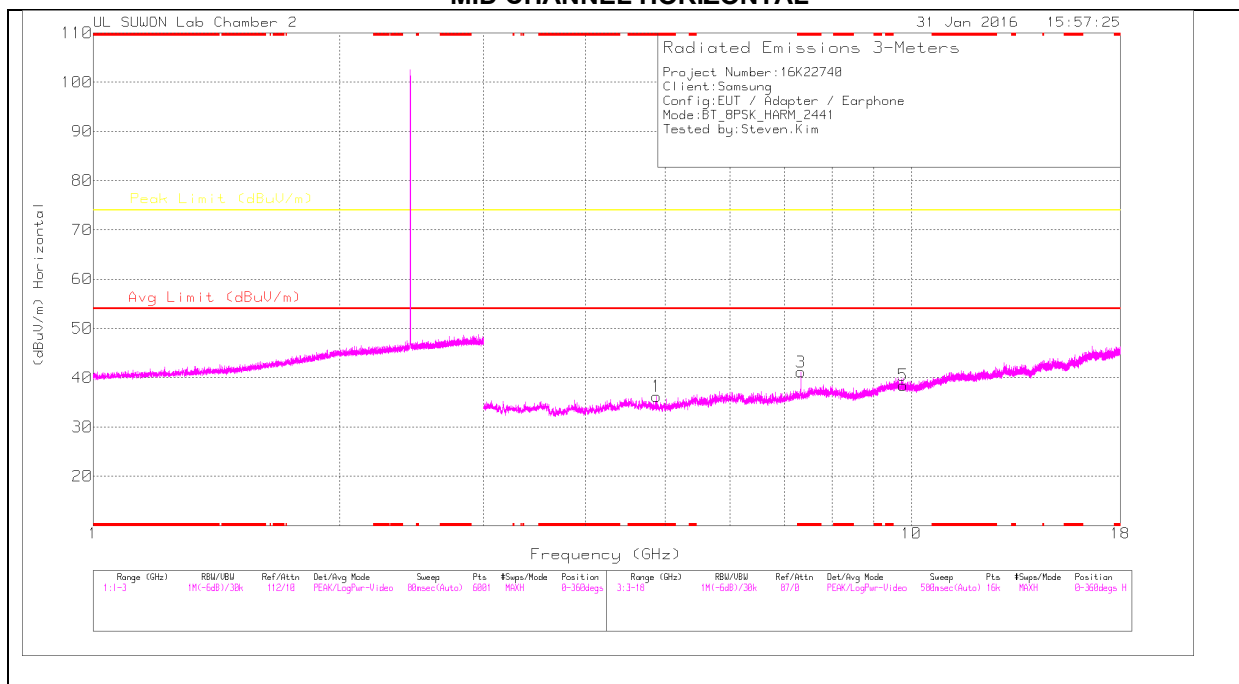
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 724)_15061 9	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.804	39.36	PK2	33.9	-25.3	47.96	-	-	74	-26.04	170	322	H
* 4.804	28.27	VA1T	33.9	-25.3	36.87	54	-17.13	-	-	170	322	H
7.206	37	PK2	35.8	-22.9	49.9	-	-	74	-24.1	113	277	H
* 4.804	39.83	PK2	33.9	-25.3	48.43	-	-	74	-25.57	74	334	V
* 4.804	28.91	VA1T	33.9	-25.3	37.51	54	-16.49	-	-	74	334	V
7.206	38.45	PK2	35.8	-22.9	51.35	-	-	74	-22.65	360	101	V

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

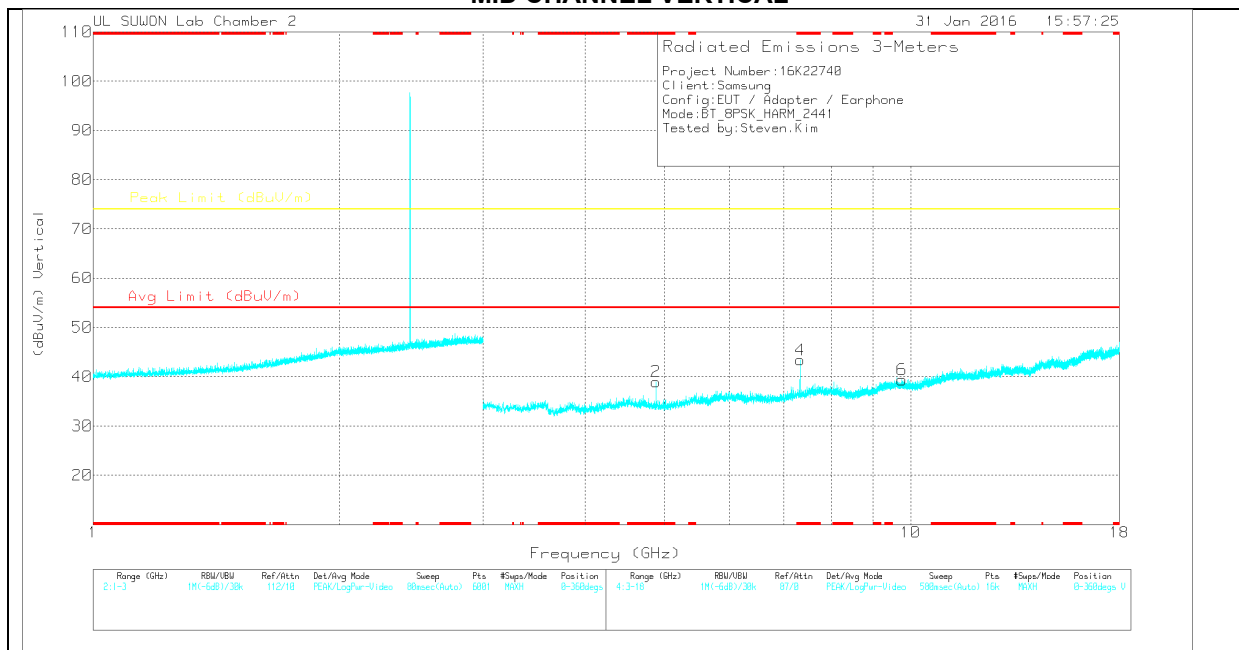
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

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	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.881	27.52	PK	33.9	-25.2	36.22	-	-	74	-37.78	0-360	100	H
3	* 7.323	27.73	PK	35.9	-22.5	41.13	-	-	74	-32.87	0-360	100	H
5	9.766	20.76	PK	37	-19.3	38.46	-	-	74	-35.54	0-360	100	H
2	* 4.881	30.29	PK	33.9	-25.2	38.99	-	-	74	-35.01	0-360	100	V
4	* 7.323	29.98	PK	35.9	-22.5	43.38	-	-	74	-30.62	0-360	100	V
6	9.759	21.67	PK	37	-19.3	39.37	-	-	74	-34.63	0-360	200	V

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

PK – Peak detector

Radiated Emissions

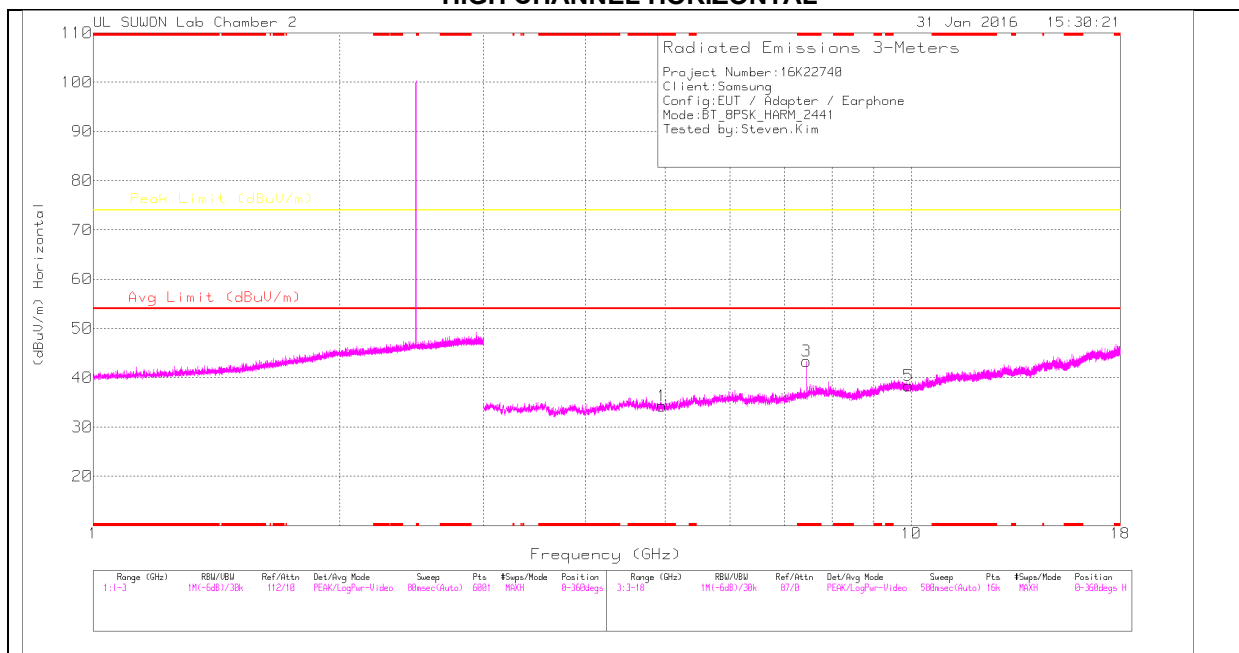
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.323	37.8	PK2	35.9	-22.5	51.2	-	-	74	-22.8	133	385	H
* 7.323	24.91	VA1T	35.9	-22.5	38.31	54	-15.69	-	-	133	385	H
* 4.882	40.25	PK2	33.9	-25.2	48.95	-	-	74	-25.05	278	102	V
* 4.882	30.19	VA1T	33.9	-25.2	38.89	54	-15.11	-	-	278	102	V

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

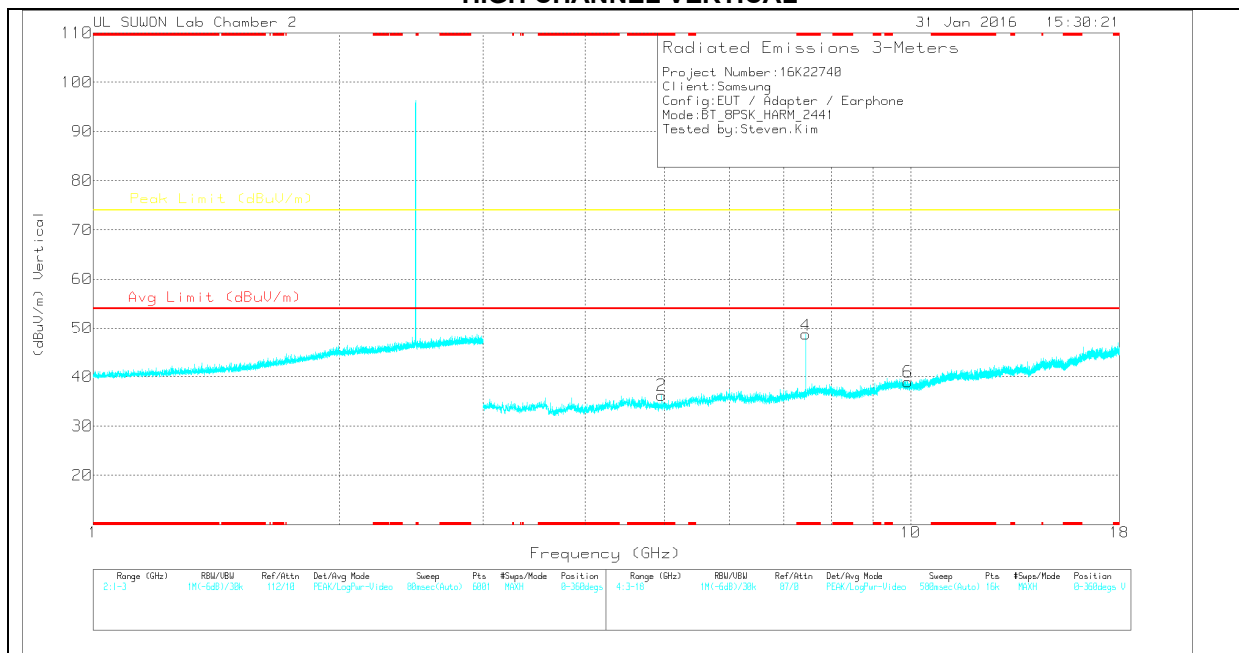
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

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	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.959	25.38	PK	33.9	-25	34.28	-	-	74	-39.72	0-360	100	H
3	* 7.44	29.45	PK	36	-22.1	43.35	-	-	74	-30.65	0-360	100	H
5	9.919	20.28	PK	37.1	-19	38.38	-	-	74	-35.62	0-360	200	H
2	* 4.959	27.31	PK	33.9	-25	36.21	-	-	74	-37.79	0-360	100	V
4	* 7.44	34.74	PK	36	-22.1	48.64	-	-	74	-25.36	0-360	100	V
6	9.92	20.84	PK	37.1	-19	38.94	-	-	74	-35.06	0-360	100	V

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

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.44	39.84	PK2	36	-22.1	53.74	-	-	74	-20.26	130	178	H
* 7.44	27.33	VA1T	36	-22.1	41.23	54	-12.77	-	-	130	178	H
* 7.44	42.04	PK2	36	-22.1	55.94	-	-	74	-18.06	74	133	V
* 7.44	31.59	VA1T	36	-22.1	45.49	54	-8.51	-	-	74	133	V

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

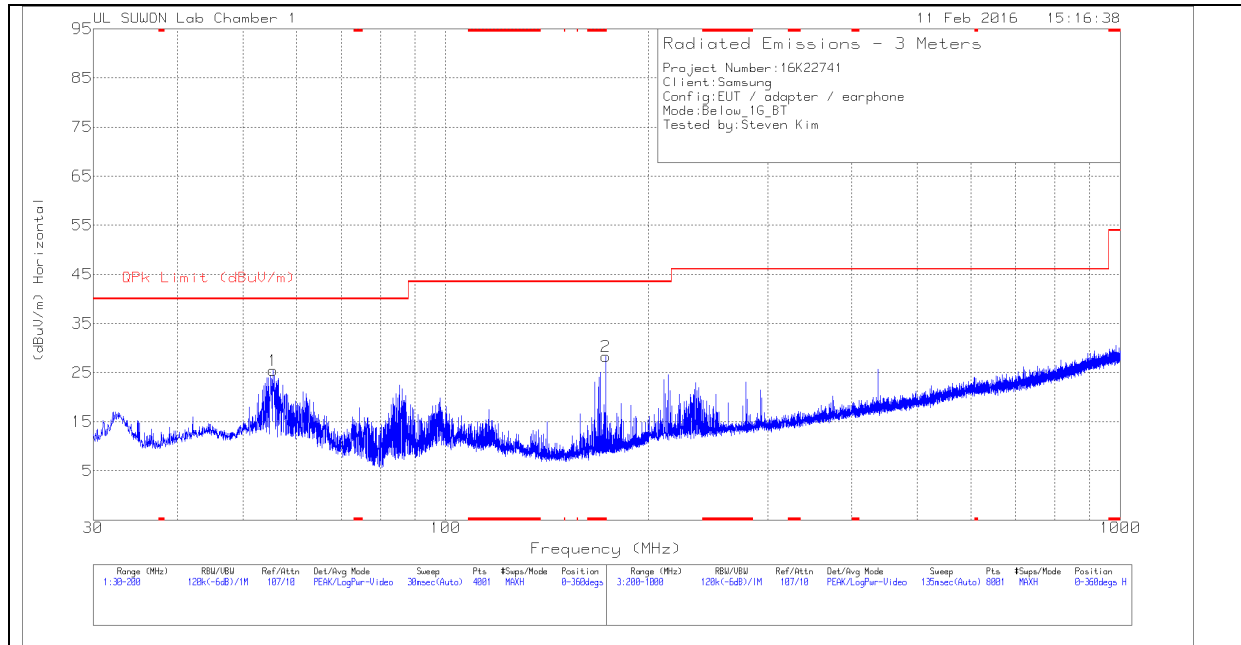
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

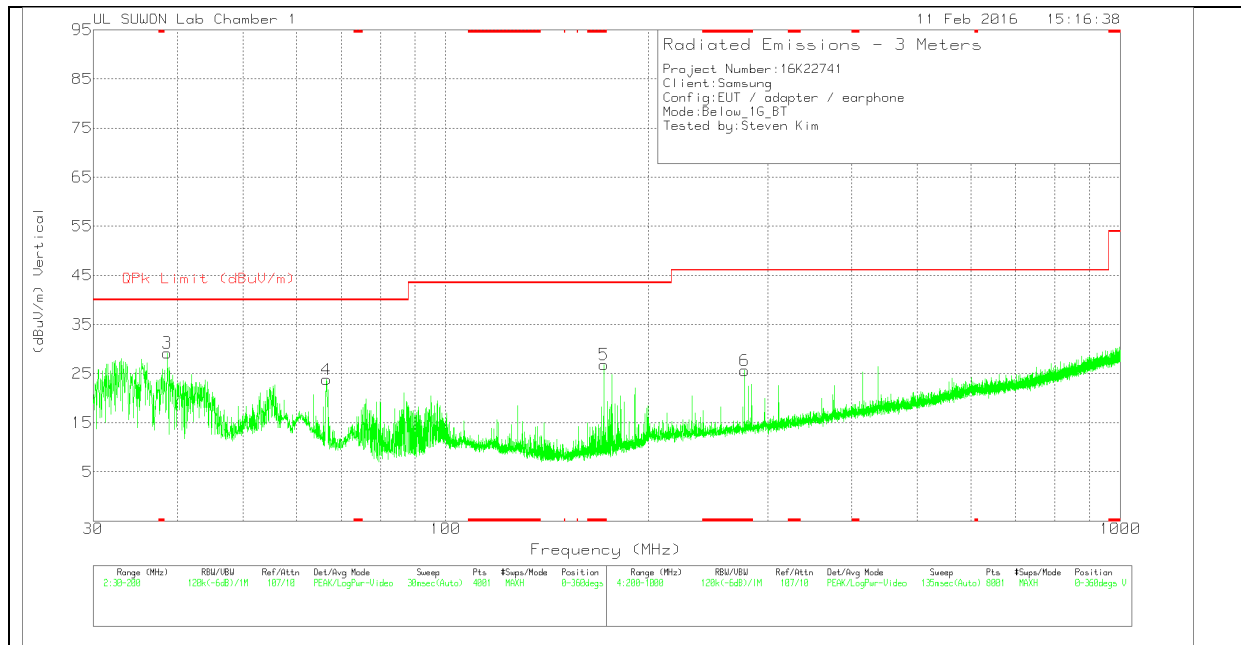
9.3. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-750	Bi-Log	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	55.415	42.23	Pk	13.2	-30	25.43	40	-14.57	0-360	400	H
2	* 172.545	47.55	Pk	9.1	-28.4	28.25	43.52	-15.27	0-360	200	H
3	38.6275	47.7	Pk	11.9	-30.4	29.2	40	-10.8	0-360	100	V
4	66.55	42.88	Pk	10.7	-29.8	23.78	40	-16.22	0-360	100	V
5	* 171.5675	46.22	Pk	9	-28.4	26.82	43.52	-16.7	0-360	200	V
6	* 277.5	40.32	Pk	12.9	-27.6	25.62	46.02	-20.4	0-360	200	V

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

Pk - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

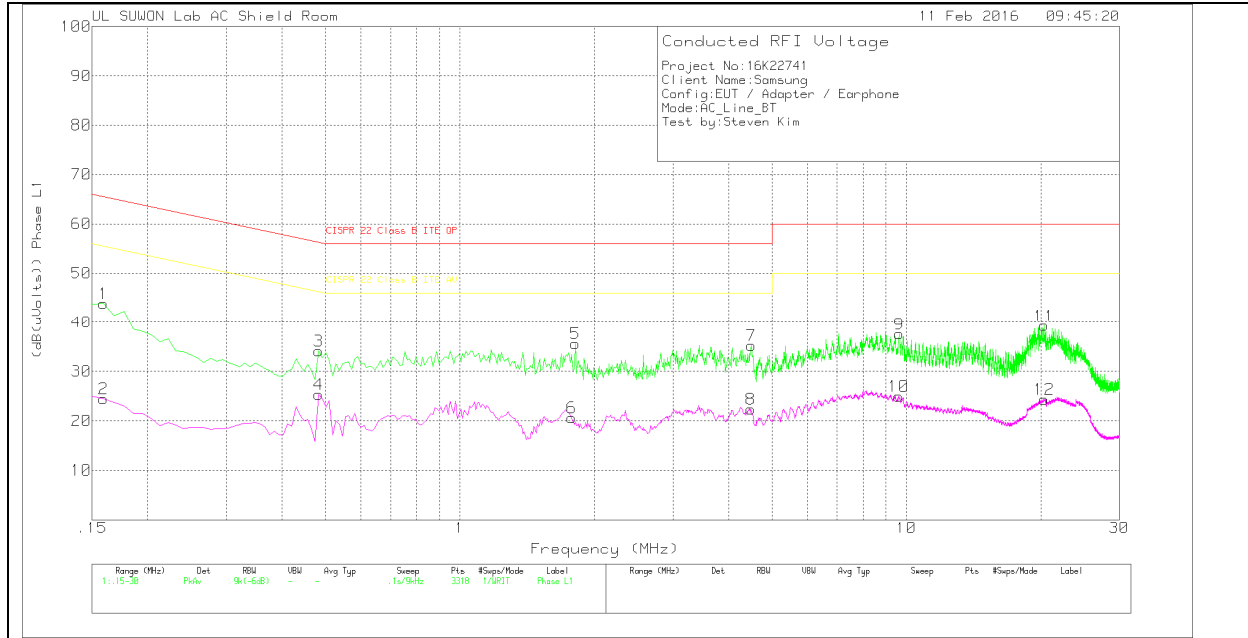
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

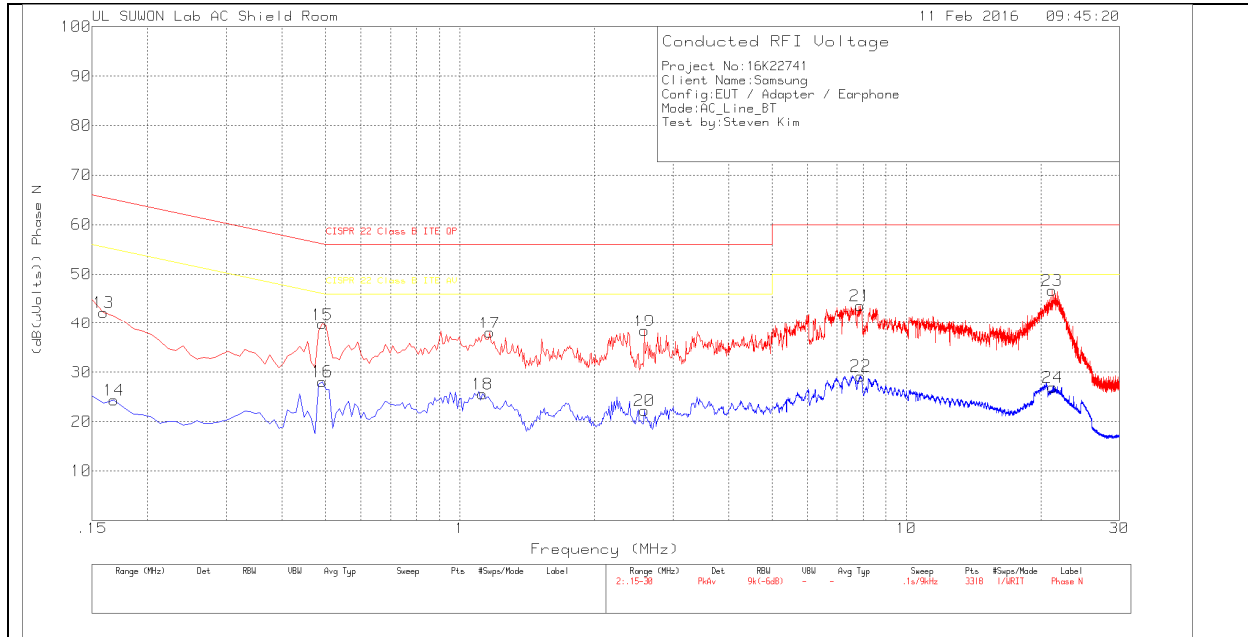
Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex-cord_L1	CE Shield Room	Corrected Reading (dB(uVolts))	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.159	33.84	Pk	10	0	43.84	65.52	-21.68	-	-
2	.159	14.48	Av	10	0	24.48	-	-	55.52	-31.04
3	.483	23.92	Pk	10.2	0	34.12	56.29	-22.17	-	-
4	.483	15.11	Av	10.2	0	25.31	-	-	46.29	-20.98
5	1.815	25.74	Pk	9.8	.1	35.64	56	-20.36	-	-
6	1.779	10.75	Av	9.8	.1	20.65	-	-	46	-25.35
7	4.497	25.37	Pk	9.8	.1	35.27	56	-20.73	-	-
8	4.479	12.42	Av	9.8	.1	22.32	-	-	46	-23.68
9	9.645	27.33	Pk	10	.2	37.53	60	-22.47	-	-
10	9.618	14.78	Av	10	.2	24.98	-	-	50	-25.02
11	20.337	28.71	Pk	10.4	.2	39.31	60	-20.69	-	-
12	20.337	13.76	Av	10.4	.2	24.36	-	-	50	-25.64

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex-cord_N	CE Shield Room	Corrected Reading (dB(uVolts))	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
13	.159	32.28	Pk	10	0	42.28	65.52	-23.24	-	-
14	.168	14.11	Av	10.2	0	24.31	-	-	55.06	-30.75
15	.492	29.71	Pk	10.1	0	39.81	56.13	-16.32	-	-
16	.492	18.01	Av	10.1	0	28.11	-	-	46.13	-18.02
17	1.167	28.29	Pk	9.8	0	38.09	56	-17.91	-	-
18	1.122	15.79	Av	9.8	0	25.59	-	-	46	-20.41
19	2.589	28.53	Pk	9.8	.1	38.43	56	-17.57	-	-
20	2.589	12.33	Av	9.8	.1	22.23	-	-	46	-23.77
21	7.881	33.6	Pk	9.9	.1	43.6	60	-16.4	-	-
22	7.908	19.22	Av	9.9	.1	29.22	-	-	50	-20.78
23	21.21	35.8	Pk	10.7	.2	46.7	60	-13.3	-	-
24	21.255	16.08	Av	10.7	.2	26.98	-	-	50	-23.02

Pk - Peak detector

Av - Average detection