

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 247 CLASS II & IV PC REPORT

OF

Product Name: 802.11a/b/g/n/ac + BT4.1 M.2 2230 Type Card
Brand Name: Qualcomm Atheros
Model No.: QCNFA344A
FCC ID: PPD-QCNFA344AH
IC: 4104A-QCNFA344A
Model Difference: N/A
Report No.: E2/2016/30070
Issue Date: Apr. 12, 2016
FCC Rule Part: §15.247, Cat: DSS
IC Rule: RSS-247 issue 1 May 2015
Prepared for: Qualcomm Atheros, Inc.
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95110
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VERIFICATION OF COMPLIANCE

Applicant: Qualcomm Atheros, Inc.
1700 Technology Drive, San Jose, CA 95110
Product Name: 802.11a/b/g/n/ac + BT4.1 M.2 2230 Type Card
Brand Name: Qualcomm Atheros
Model No.: QCNFA344A
Model Difference: N/A
FCC ID: PPD-QCNFA344AH
IC: 4104A-QCNFA344A
File Number: E2/2016/30070
Date of test: Mar. 23, 2016 ~ Apr. 08, 2016
Date of EUT Received: Mar. 23, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:

Aken Huang

Date:

Apr. 12, 2016

Aken Huang / Engineer

Prepared By:

Tiffany Kao

Date:

Apr. 12, 2016

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Apr. 12, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/30070	Rev.00	Initial creation of document	Apr. 12, 2016

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8.1 Standard Applicable	43
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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name of Host:	Tablet Computer	
Brand Name:		
Model No. of Host:	N16P3	
Model Difference:	N/A	
Hardware Version:	R 1.1	
Software Version:	Win 10	
Model No. of BT/WLAN Module:	QCNFA344A	
Module FCC ID:	PPD-QCNFA344AH	
Module IC:	4104A-QCNFA344A	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.	
Class II & Class IV Permissive change:	802.11a/b/g/n/ac + BT4.1 M.2 2230 Type Card (QCNFA344A) INSTALLED IN Tablet Computer	
Power Supply:	7.6Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter	
	Battery:	Model No.: AP16B4J; Supplier: SONY
	Adapter:	Model No.: ADP-45HE B, Supplier: Delta

Bluetooth_BR+EDR:

Bluetooth Version	BT V4.1 Dual Mode
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	6.52dBm
Type of Emission:	1M23F1D
Frequency Range:	2.402GHz – 2.480GHz
Antenna Designation:	PIFA Antenna, Antenna Gain: 0.47dBi (Aux)

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Notebook Computer supporting, Bluetooth and Wi-Fi 802.11 a/b/g/n/ac features, and below is details of information.

Product Feature	
Product Name of Host:	Tablet Computer
Brand Name:	
Model No. of Host:	N16P3
Model Difference:	N/A
Module FCC ID:	PPD-QCNFA344AH
Module IC :	4104A-QCNFA344A
Bluetooth Version	V4.1 dual mode
Wi-Fi Specification	802.11a/b/g/n/ac

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 Test Methodology of Applied Standards

Canada RSS-247 issue 1: 2015

RSS-Gen Issue 4:2014

FCC Part 15, Subpart C §15.247

FCC Public Notice DA 00-705 Measurement Guidelines

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5

1.5 Special Accessories

There is no special accessory used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss 1.2dB.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

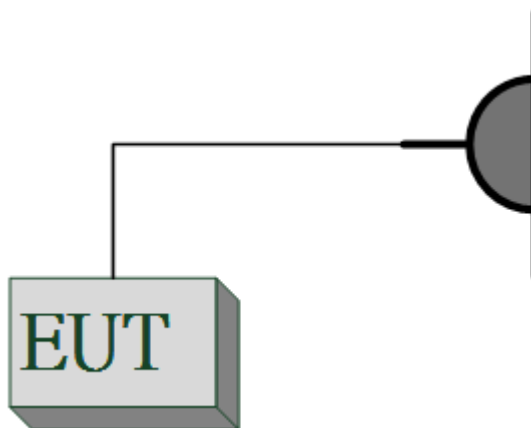


Fig. 2-2 Conducted (Antenna Port) Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 (2)	Peak Output Power	Compliant
§15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.203 §15.247(b)	RSS- Gen §6.7 RSS- Gen §8.3	Antenna Requirement	Compliant

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

CH	FREQUENCY	CH	FREQUENCY	CH	FREQUENCY	CH	FREQUENCY
0	2402 MHz	20	2422 MHz	40	2442 MHz	70	2462 MHz
1	2403 MHz	21	2423 MHz	41	2443 MHz	71	2463 MHz
2	2404 MHz	22	2424 MHz	42	2444 MHz	72	2464 MHz
3	2405 MHz	23	2425 MHz	43	2445 MHz	73	2465 MHz
4	2406 MHz	24	2426 MHz	44	2446 MHz	74	2466 MHz
5	2407 MHz	25	2427 MHz	45	2447 MHz	75	2467 MHz
6	2408 MHz	26	2428 MHz	46	2448 MHz	76	2468 MHz
7	2409 MHz	27	2429 MHz	47	2449 MHz	77	2469 MHz
8	2410 MHz	28	2430 MHz	48	2450 MHz	78	2470 MHz
9	2411 MHz	29	2431 MHz	49	2451 MHz	79	2471 MHz
10	2412 MHz	30	2432 MHz	50	2452 MHz	70	2472 MHz
11	2413 MHz	31	2433 MHz	51	2453 MHz	71	2473 MHz
12	2414 MHz	32	2434 MHz	52	2454 MHz	72	2474 MHz
13	2415 MHz	33	2435 MHz	53	2455 MHz	73	2475 MHz
14	2416 MHz	34	2436 MHz	54	2456 MHz	74	2476 MHz
15	2417 MHz	35	2437 MHz	55	2457 MHz	75	2477 MHz
16	2418 MHz	36	2438 MHz	56	2458 MHz	76	2478 MHz
17	2419 MHz	37	2439 MHz	57	2459 MHz	77	2479 MHz
18	2420 MHz	38	2440 MHz	58	2460 MHz	78	2480 MHz
19	2421 MHz	39	2441 MHz	59	2461 MHz		

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 Investigation has been done on all the possible configurations for searching the worst case.

RADIATED TEST				
Radiated Emission Test (BELOW 1 GHz) (Worst case)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Bluetooth	0 to 78	0,39,78	GFSK	DH5
Radiated Emission Test (ABOVE 1 GHz) (Worst case)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Bluetooth	0 to 78	0,39,78	GFSK	DH5
Band Edge				
Bluetooth	0 to 78	0,78	GFSK	DH5
Bluetooth	0 to 78	0,78	8-DPSK	DH5

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth BR+EDR Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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5 ASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
20dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Frequency Separation	+/- 51.33 Hz
Number of hopping frequency	+/- 51.33 Hz
Time of Occupancy	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 PEAK OUTPUT POWER MEASUREMENT

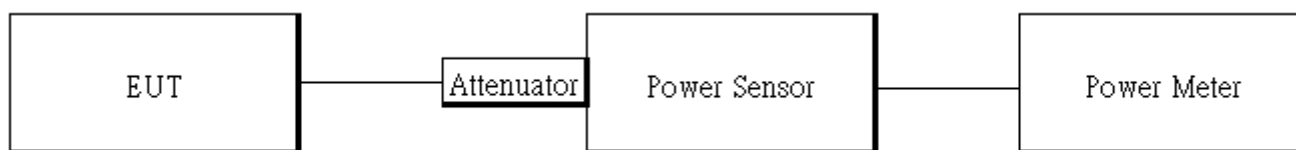
6.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016

6.3 Test Set-up:



6.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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6.5 Measurement Result:

BR mode (GFSK) (Peak):

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	6.01	0.00399	0.125
2441.00	6.20	0.00417	0.125
2480.00	6.52	0.00449	0.125

BR mode (GFSK) (Average):

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	4.35	0.00272	0.125
2441.00	4.94	0.00312	0.125
2480.00	5.11	0.00324	0.125

EDR mode ($\pi/4$ DQPSK) (Peak):

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	5.37	0.00344	0.125
2441.00	5.75	0.00376	0.125
2480.00	5.90	0.00389	0.125

EDR mode ($\pi/4$ DQPSK) (Average):

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	2.74	0.00188	0.125
2441.00	3.21	0.00209	0.125
2480.00	3.25	0.00211	0.125

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EDR mode (8DPSK) (Peak):

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	5.58	0.00361	0.125
2441.00	5.96	0.00394	0.125
2480.00	6.12	0.00409	0.125

EDR mode (8DPSK) (Average):

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	1.81	0.00152	0.125
2441.00	2.28	0.00169	0.125
2480.00	2.33	0.00171	0.125

Note: Measured by power meter, **cable loss as 1.2dB that offsets on the power meter.*

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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7.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Loop Antenna	ETS-Lindgren	6502	143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U+SUCOFL EX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12+SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

NOTE: N.C.R refers to Not Calibrated Required.

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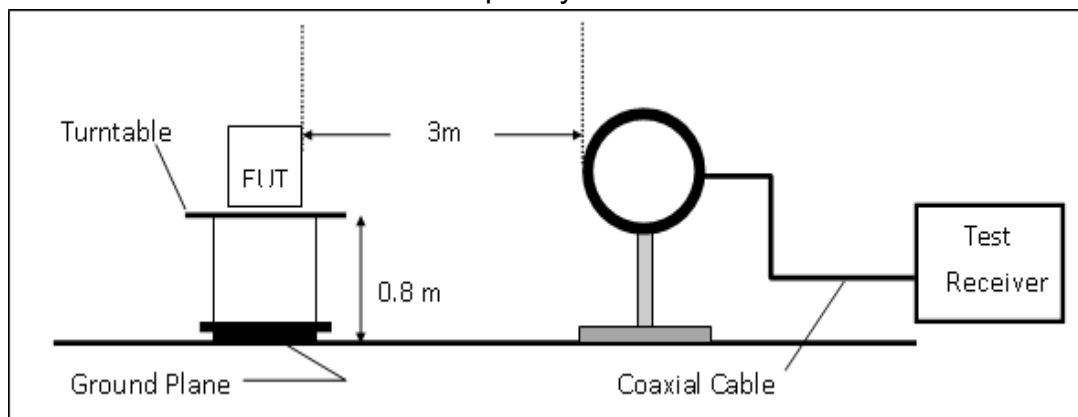
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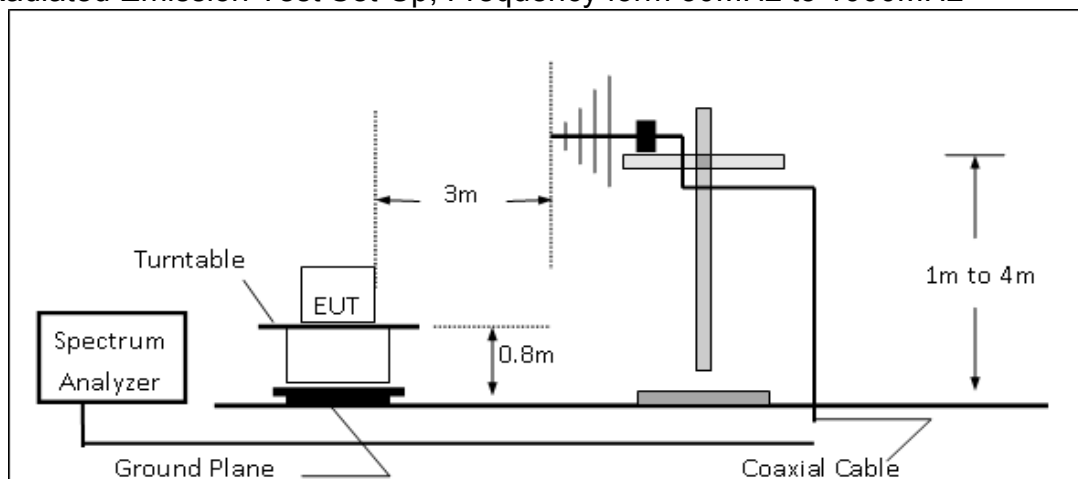
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7.3 Test SET-UP

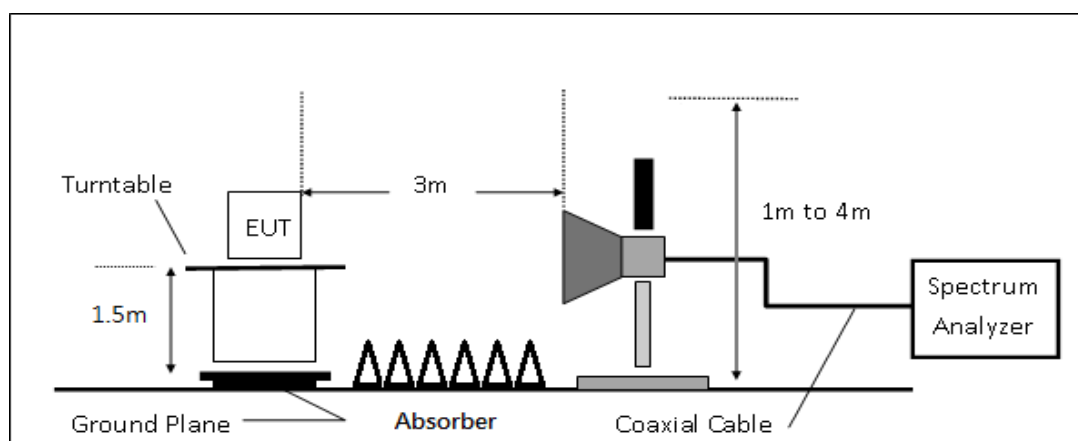
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.4 Measurement Procedure

Radiated Emission

1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 0.8m for frequency > 1GHz above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Use the follow spectrum analyzer setting:
 - (1) Span = wide enough to fully capture the emission being measured
 - (2) RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c)
 Duty Cycle = On time/100 milliseconds

$$\text{On time} = N1 * L1 = N2 * L2 + \dots + N(n-1) * L(n-1) + N(n) * L(n)$$
 Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.
 Average Emission Level = Peak Emission Level + 20*log (duty Cycle)
6. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
7. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
8. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
9. Repeat above procedures until all frequency of the interest measured were complete.

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7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu V/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

7.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

7.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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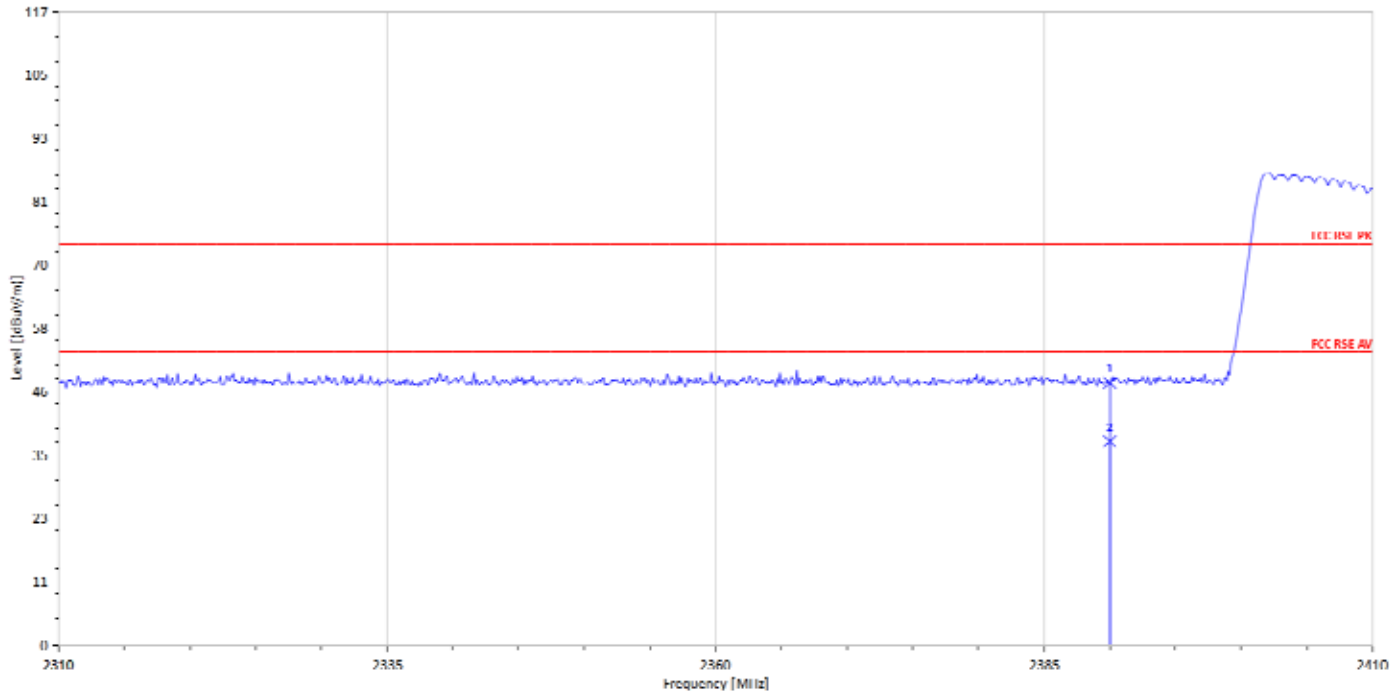
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Radiated Band Edge Measurement Result: (Hopping Mode)

Operation Mode :	BT BR Hopping	Test Date :	2016/3/29
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	42.62	5.78	48.40	74	-25.60
2390.00	E	Average	31.67	5.78	37.45	54	-16.55

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Operation Mode : BT BR Hopping
 Fundamental Frequency : 2402 MHz
 Operation Band : BE CH Low
 EUT Pol. : E2

Test Date : 2016/3/29
 Temp. / Humi. : 22.7deg_C/57RH
 Test Engineer : Ashton
 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	43.65	5.78	49.43	74	-24.57
2390.00	E	Average	31.69	5.78	37.47	54	-16.53

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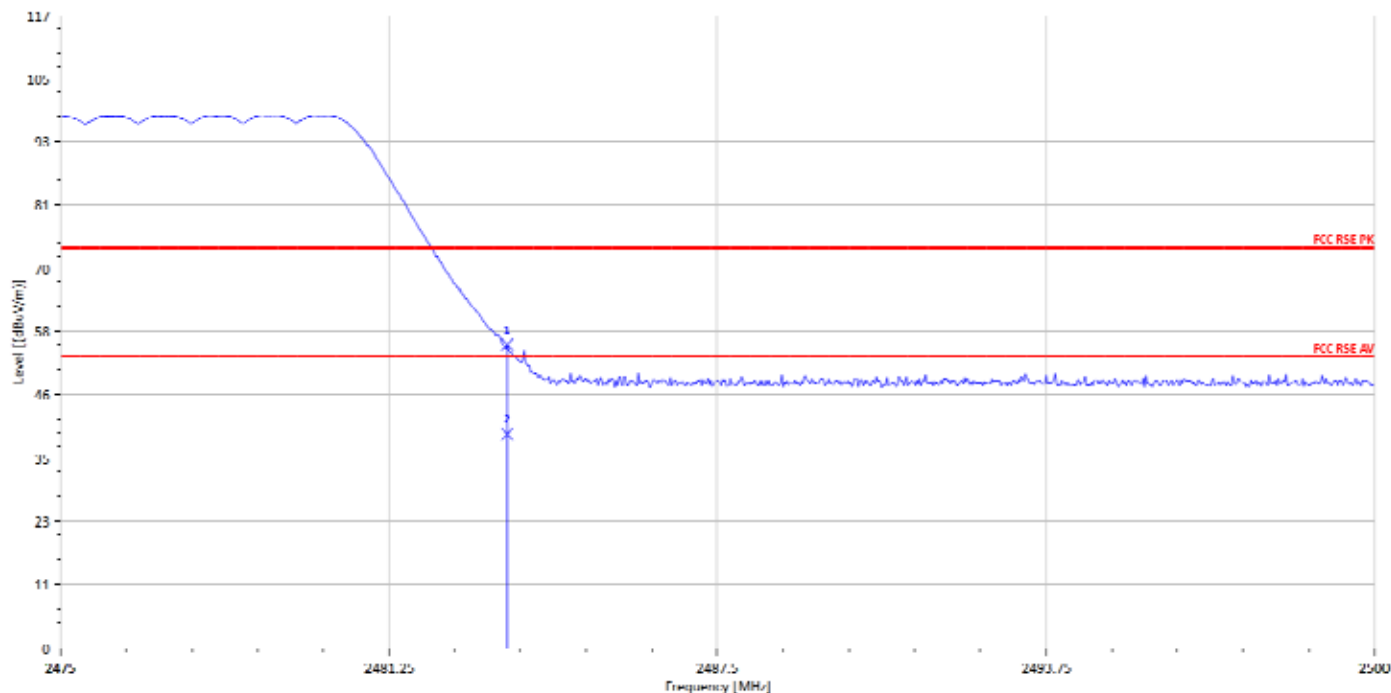
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Operation Mode : BT BR Hopping
Fundamental Frequency : 2480 MHz
Operation Band : BE CH High
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
2483.50	E	Peak	50.28	5.88	56.16	74	-17.84
2483.50	E	Average	33.69	5.88	39.57	54	-14.43

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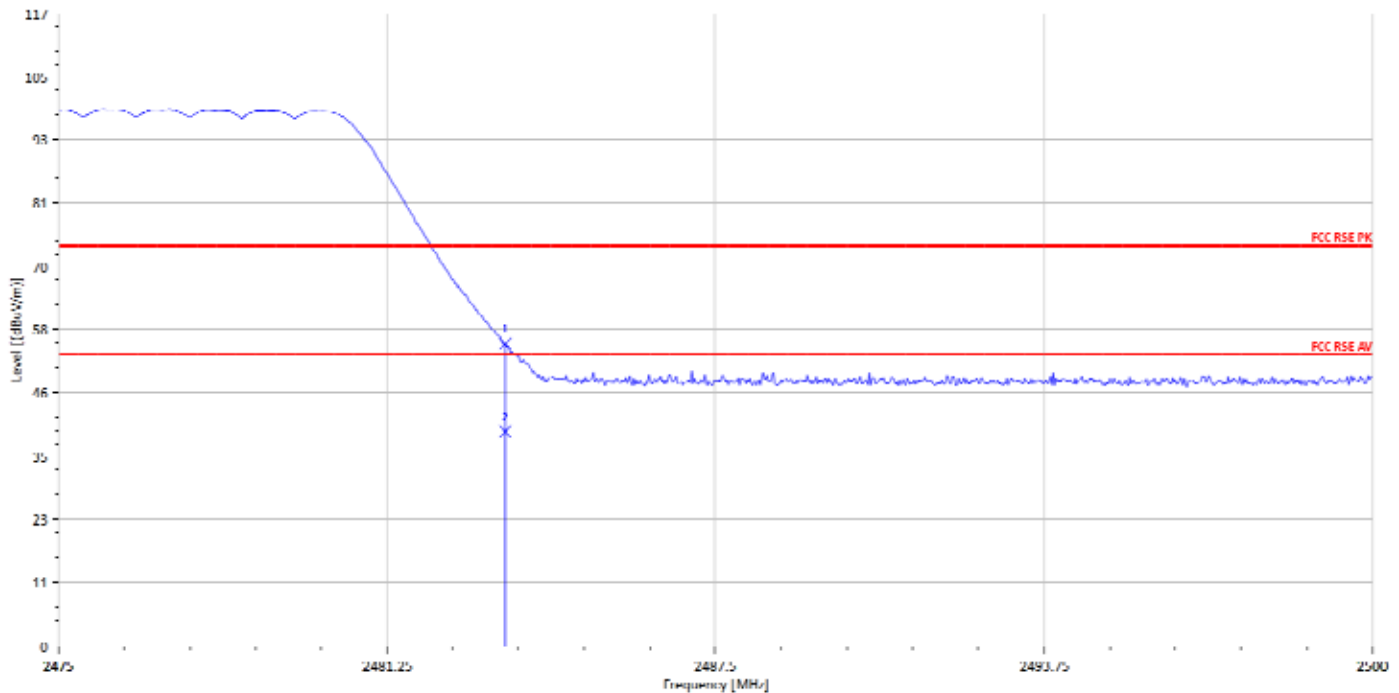
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Operation Mode : BT BR Hopping
Fundamental Frequency : 2480 MHz
Operation Band : BE CH High
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	50.04	5.88	55.93	74	-18.07
2483.50	E	Average	33.76	5.88	39.64	54	-14.36

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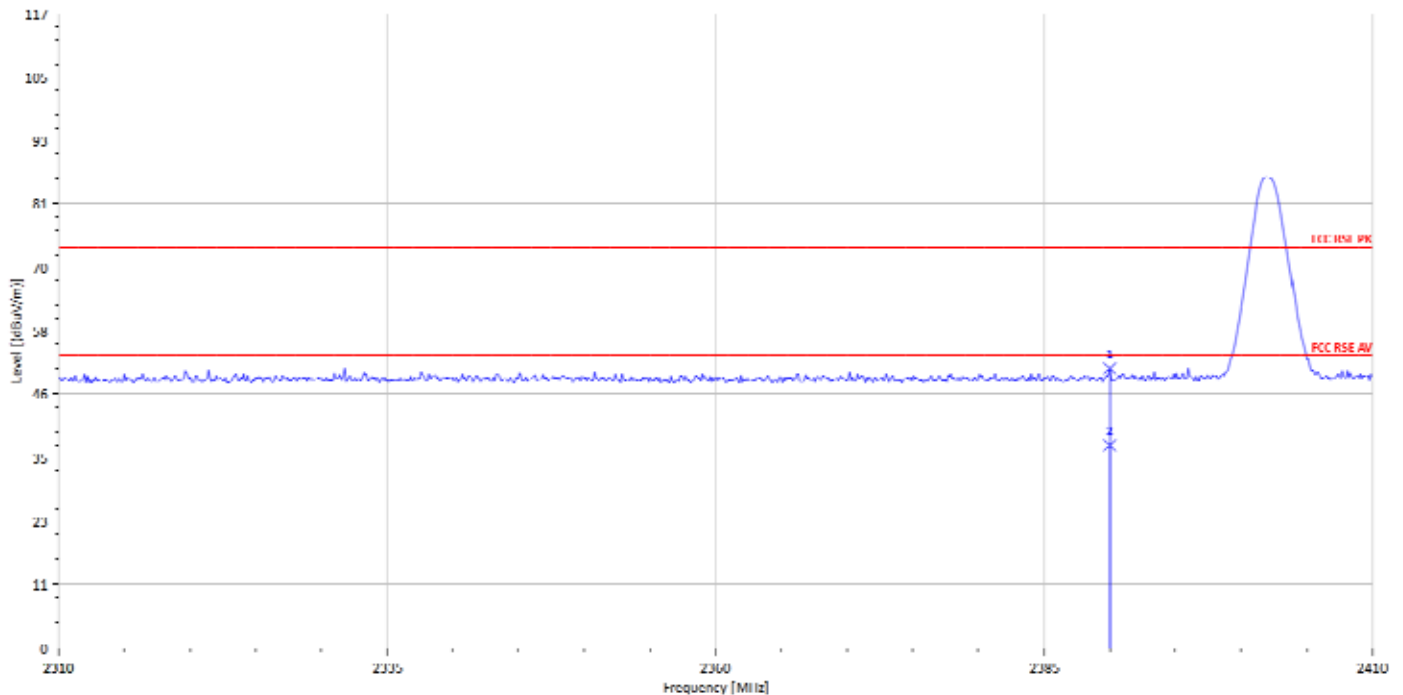
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Radiated Emission – Band Edge (Non-Hopping Mode):

Operation Mode :	BT BR	Test Date :	2016/3/29
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
2390.00	E	Peak	45.77	5.78	51.55	74	-22.45
2390.00	E	Average	31.61	5.78	37.39	54	-16.61

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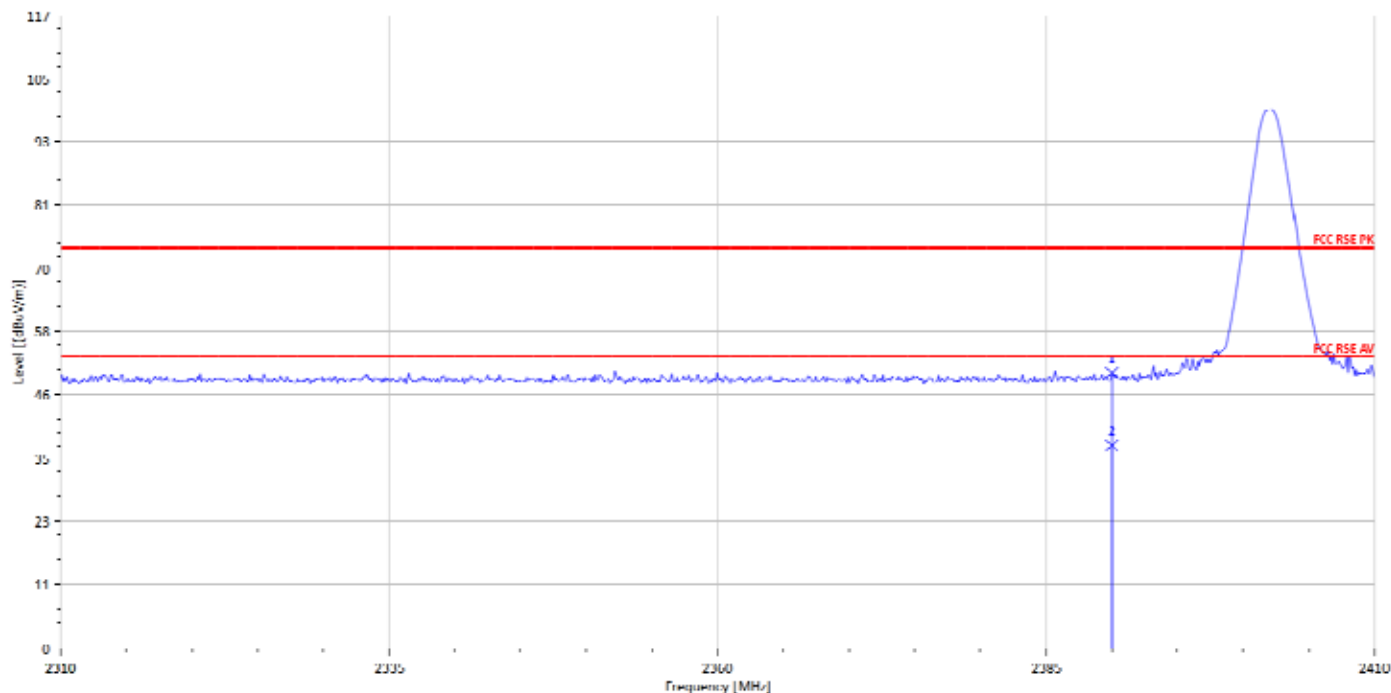
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Operation Mode : BT BR
Fundamental Frequency : 2402 MHz
Operation Band : BE CH Low
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
2390.00	E	Peak	45.11	5.78	50.88	74	-23.12
2390.00	E	Average	31.72	5.78	37.50	54	-16.50

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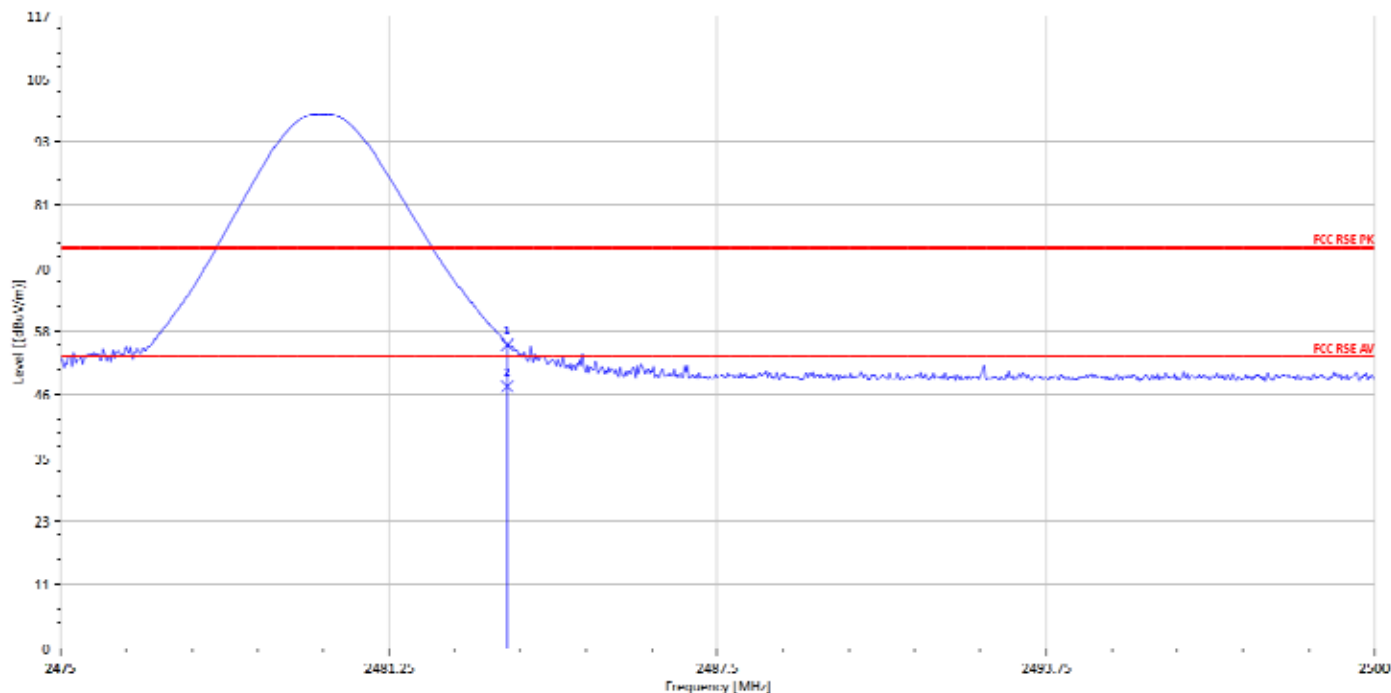
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Operation Mode : BT BR
Fundamental Frequency : 2480 MHz
Operation Band : BE CH High
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
2483.50	E	Peak	50.21	5.88	56.09	74	-17.91
2483.50	E	Average	42.48	5.88	48.36	54	-5.64

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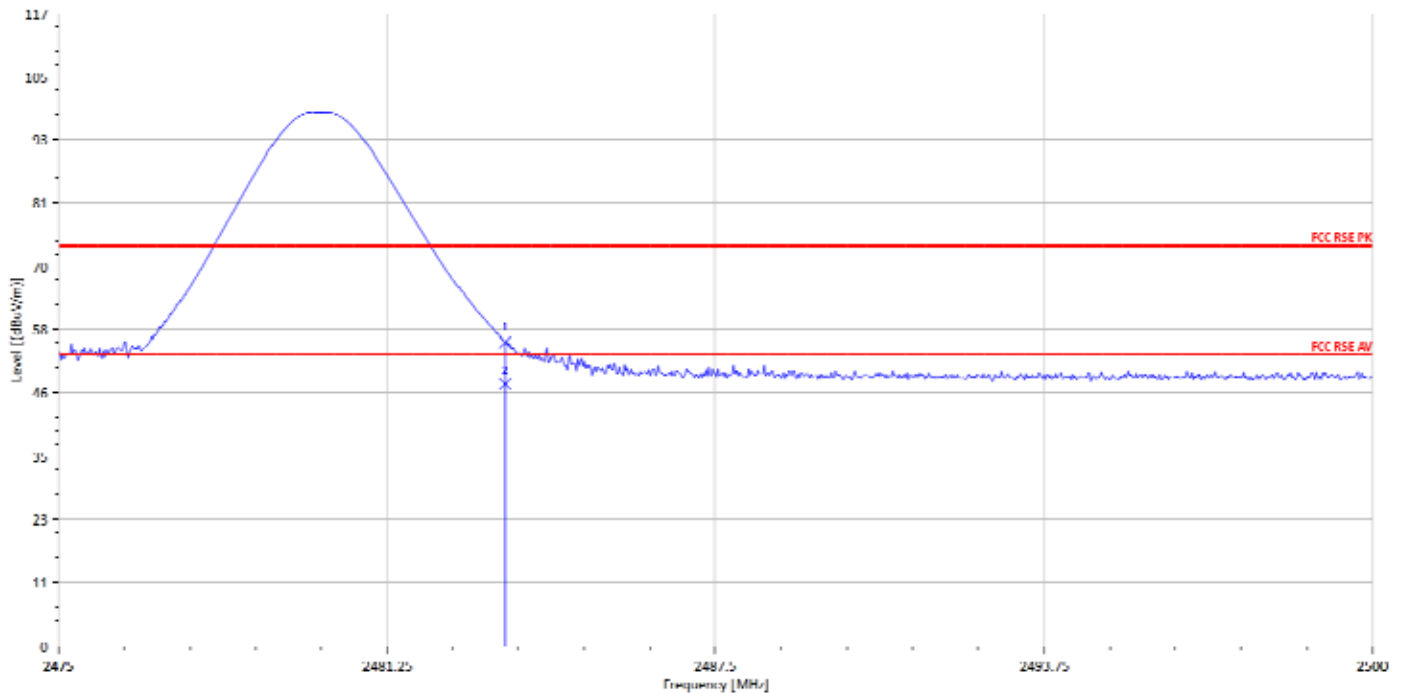
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Operation Mode : BT BR
Fundamental Frequency : 2480 MHz
Operation Band : BE CH High
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
2483.50	E	Peak	50.30	5.88	56.18	74	-17.82
2483.50	E	Average	42.57	5.88	48.45	54	-5.55

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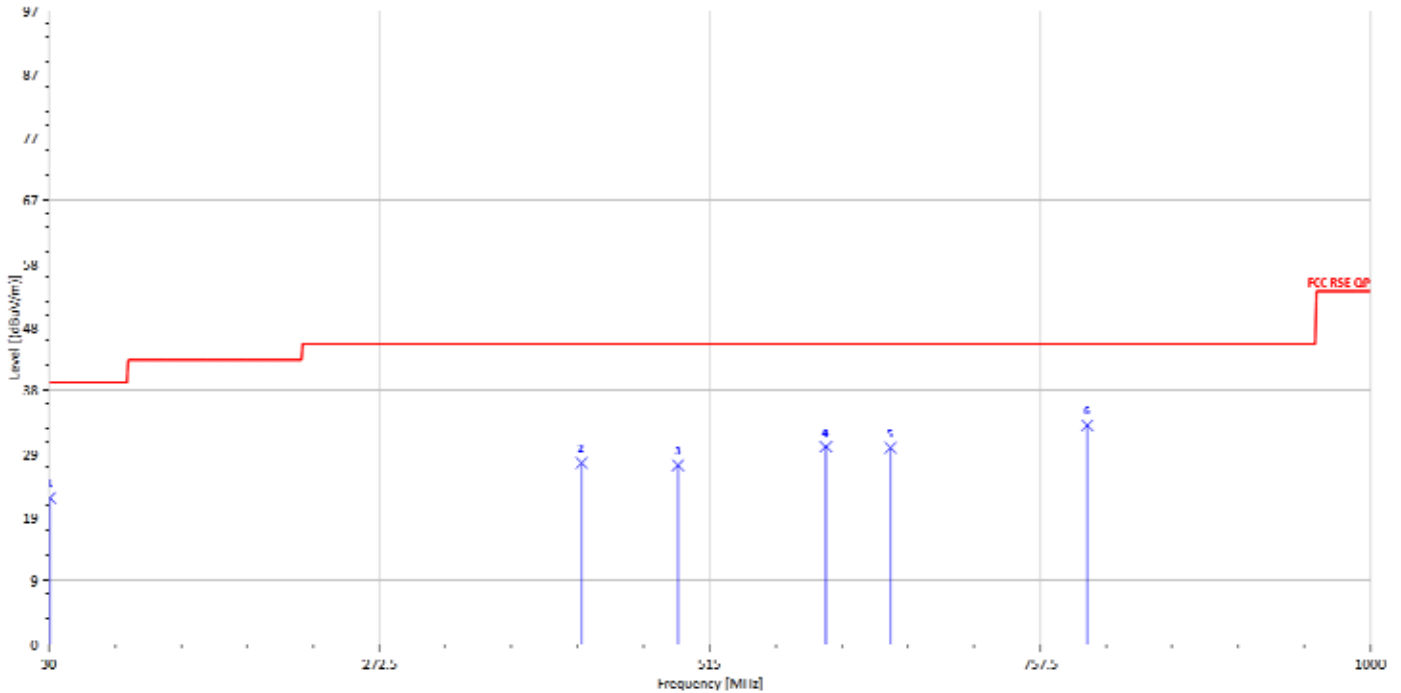
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Radiated Spurious Emission Measurement Result (Below 1GHz):

Operation Mode :	BT BR	Test Date :	2016/3/26
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.97	S	Peak	30.17	-7.70	22.47	40	-17.53
420.91	S	Peak	36.77	-9.06	27.72	46	-18.28
491.72	S	Peak	35.13	-7.76	27.36	46	-18.64
600.36	S	Peak	36.77	-6.56	30.21	46	-15.79
647.89	S	Peak	35.10	-5.02	30.07	46	-15.93
792.42	S	Peak	37.71	-4.18	33.53	46	-12.47

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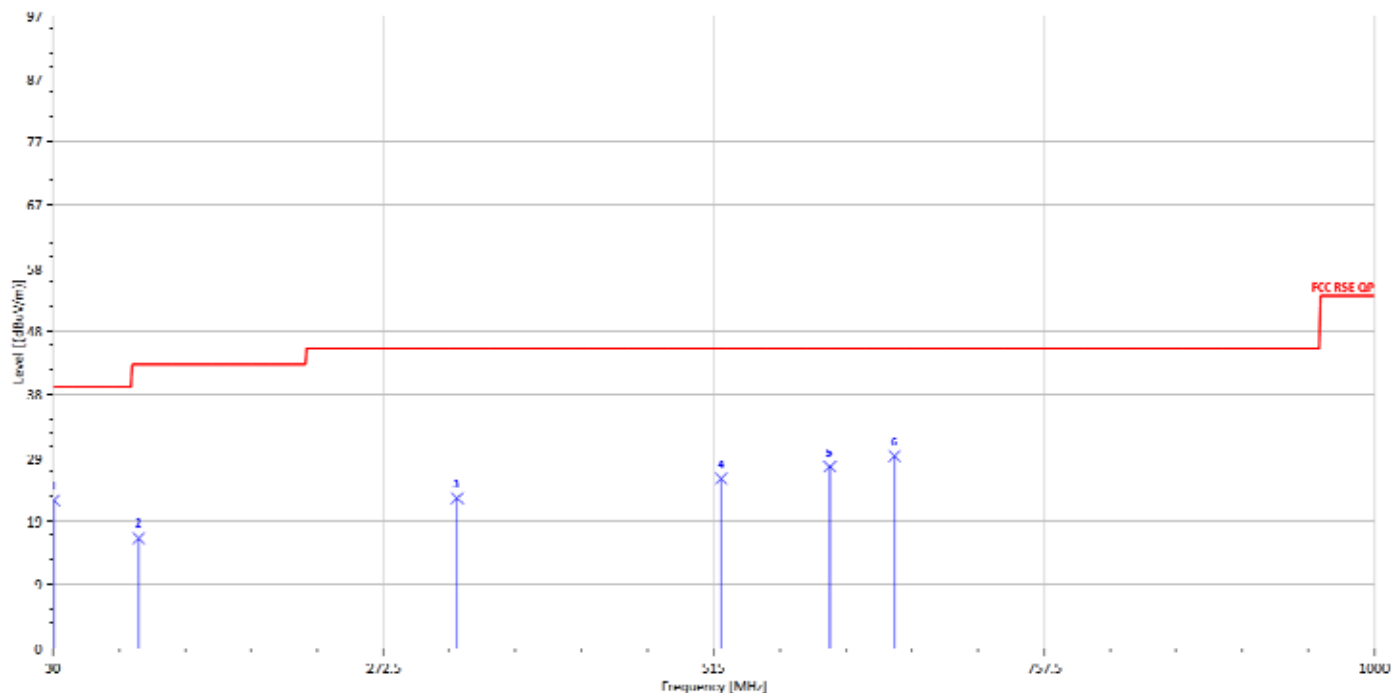
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Operation Mode : BT BR
Fundamental Frequency : 2402 MHz
Operation Band : Tx CH Low
EUT Pol. : E2

Test Date : 2016/3/26
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	30.31	-7.70	22.60	40	-17.40
93.05	S	Peak	35.82	-18.95	16.86	43.5	-26.64
326.82	S	Peak	34.92	-11.99	22.93	46	-23.07
520.82	S	Peak	33.31	-7.35	25.96	46	-20.04
600.36	S	Peak	34.37	-6.56	27.81	46	-18.19
647.89	S	Peak	34.48	-5.02	29.46	46	-16.54

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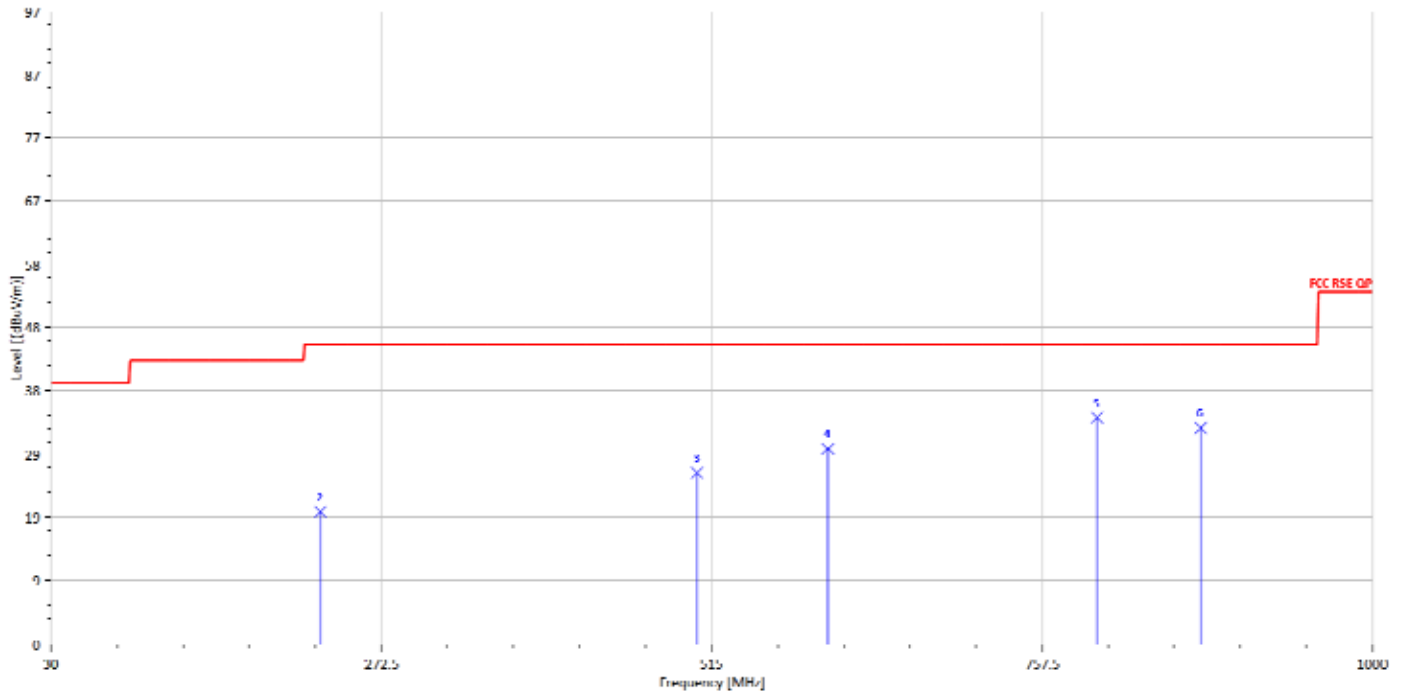
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Operation Mode : BT BR
Fundamental Frequency : 2441 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/3/26
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	S	Peak	29.14	-7.18	21.96	40	-18.04
227.88	S	Peak	36.69	-16.47	20.22	46	-25.78
504.33	S	Peak	34.10	-7.86	26.24	46	-19.76
600.36	S	Peak	36.52	-6.56	29.96	46	-16.04
798.24	S	Peak	38.56	-3.91	34.66	46	-11.34
873.90	S	Peak	35.84	-2.72	33.12	46	-12.88

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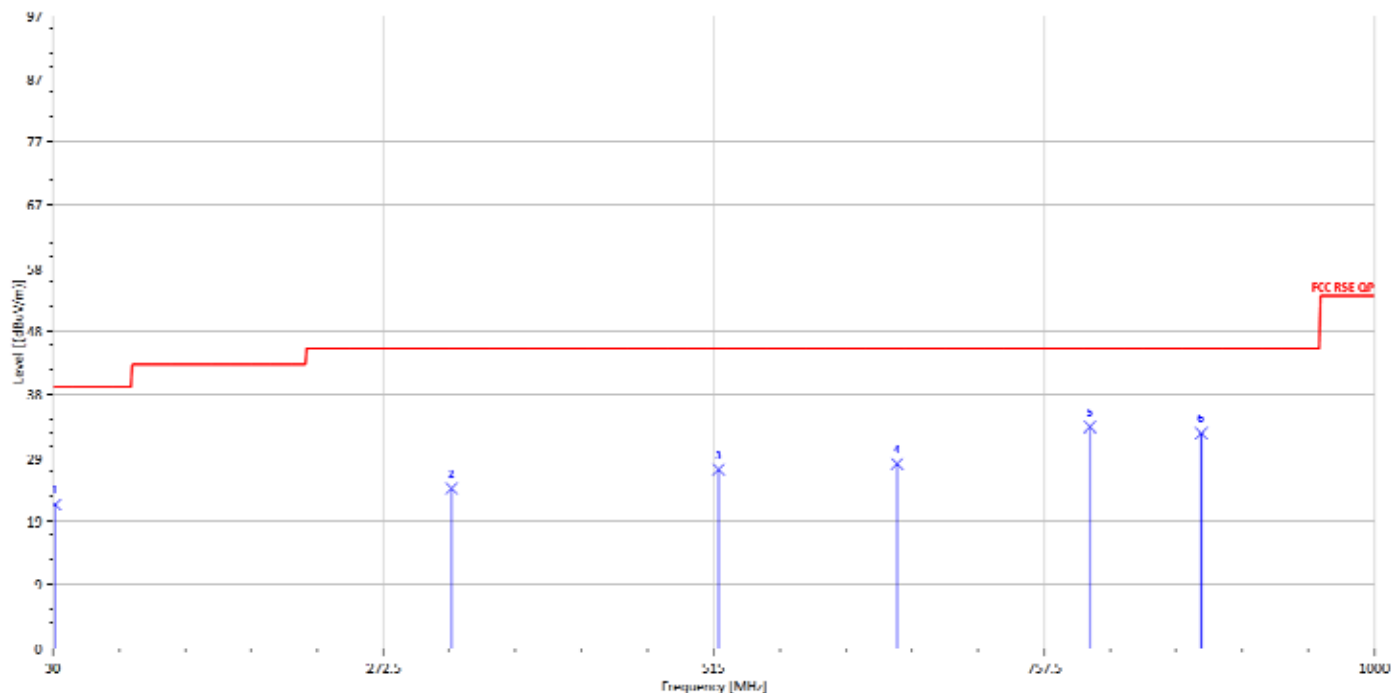
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Operation Mode : BT BR
Fundamental Frequency : 2441 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/3/26
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	30.14	-8.22	21.92	40	-18.09
322.94	S	Peak	36.44	-11.99	24.45	46	-21.55
518.88	S	Peak	34.77	-7.40	27.37	46	-18.63
649.83	S	Peak	33.48	-5.24	28.25	46	-17.75
791.45	S	Peak	38.01	-4.17	33.84	46	-12.16
872.93	S	Peak	35.60	-2.69	32.91	46	-13.09

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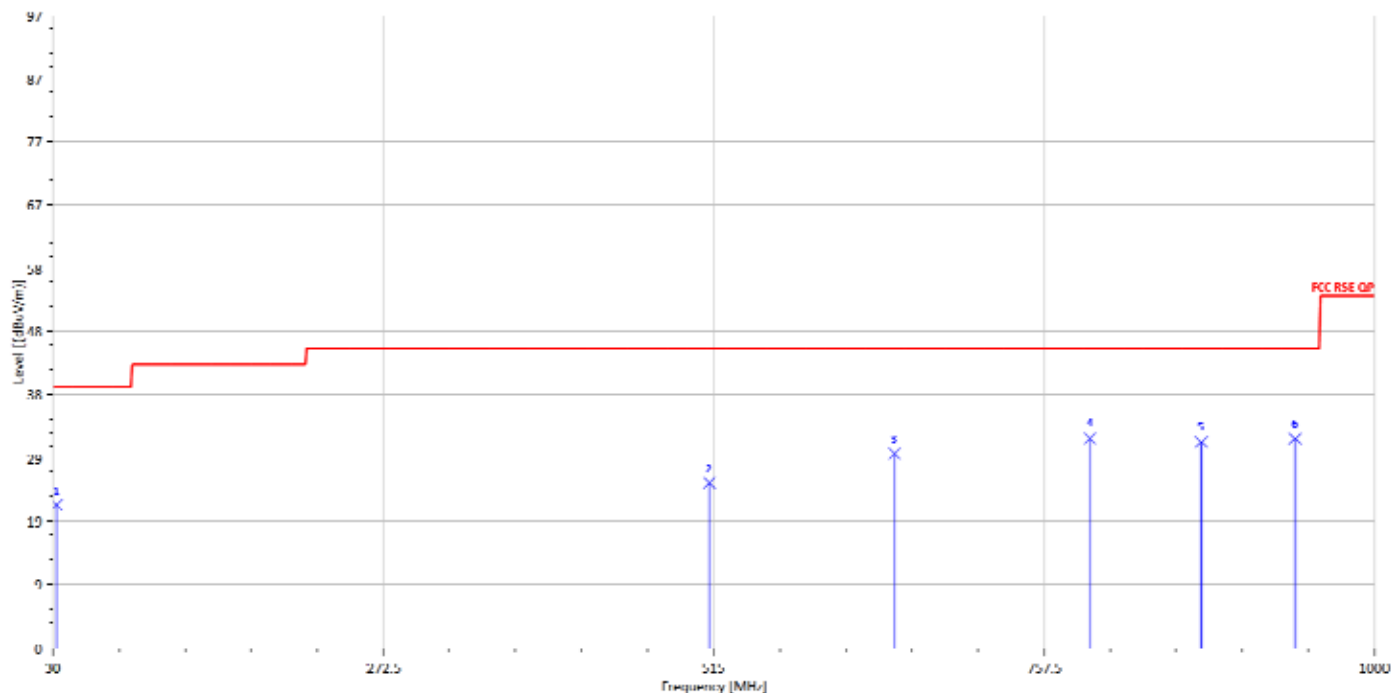
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Operation Mode : BT BR
Fundamental Frequency : 2480 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/3/26
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
32.91	S	Peak	30.63	-8.75	21.88	40	-18.12
512.09	S	Peak	32.80	-7.51	25.30	46	-20.70
647.89	S	Peak	34.85	-5.02	29.83	46	-16.17
791.45	S	Peak	36.35	-4.17	32.18	46	-13.82
872.93	S	Peak	34.32	-2.69	31.63	46	-14.37
941.80	S	Peak	34.12	-1.97	32.15	46	-13.85

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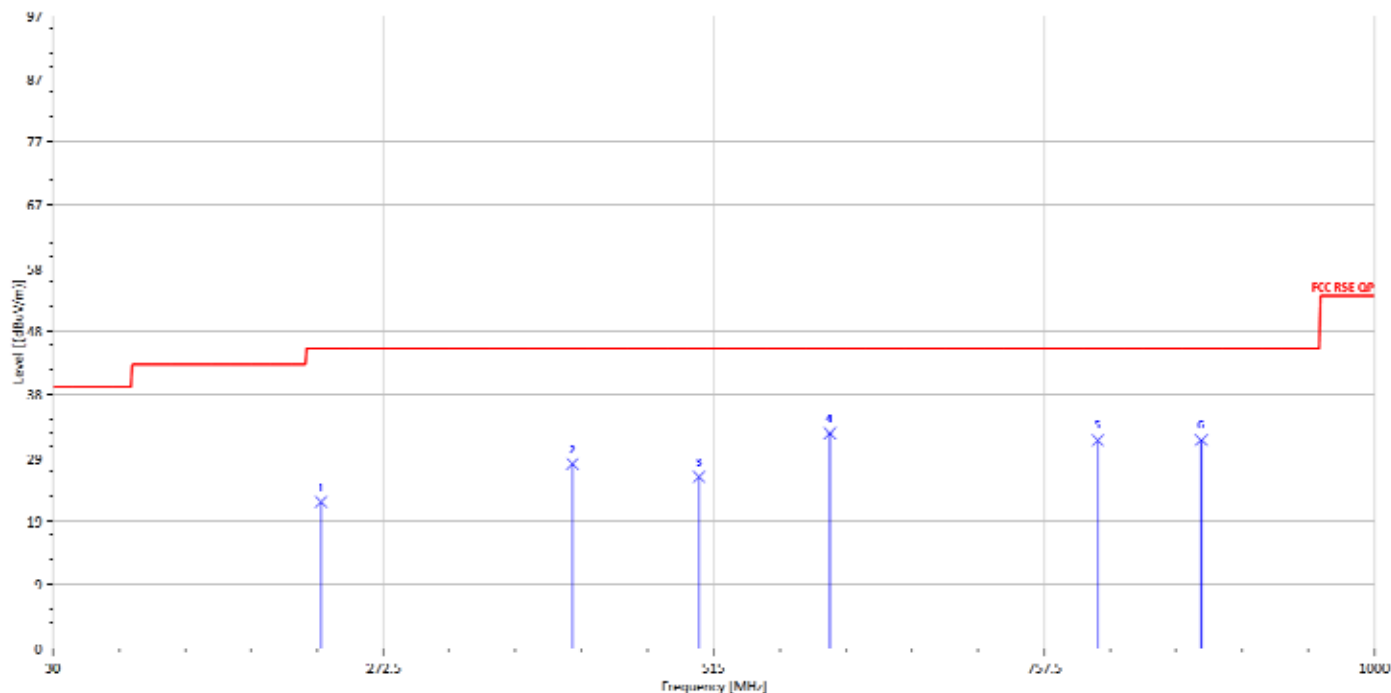
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Operation Mode : BT BR
Fundamental Frequency : 2480 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/3/26
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
226.91	S	Peak	38.92	-16.57	22.35	46	-23.65
411.21	S	Peak	37.44	-9.19	28.25	46	-17.75
504.33	S	Peak	34.10	-7.86	26.24	46	-19.76
600.36	S	Peak	39.45	-6.56	32.89	46	-13.11
797.27	S	Peak	35.90	-4.01	31.90	46	-14.10
872.93	S	Peak	34.61	-2.69	31.92	46	-14.08

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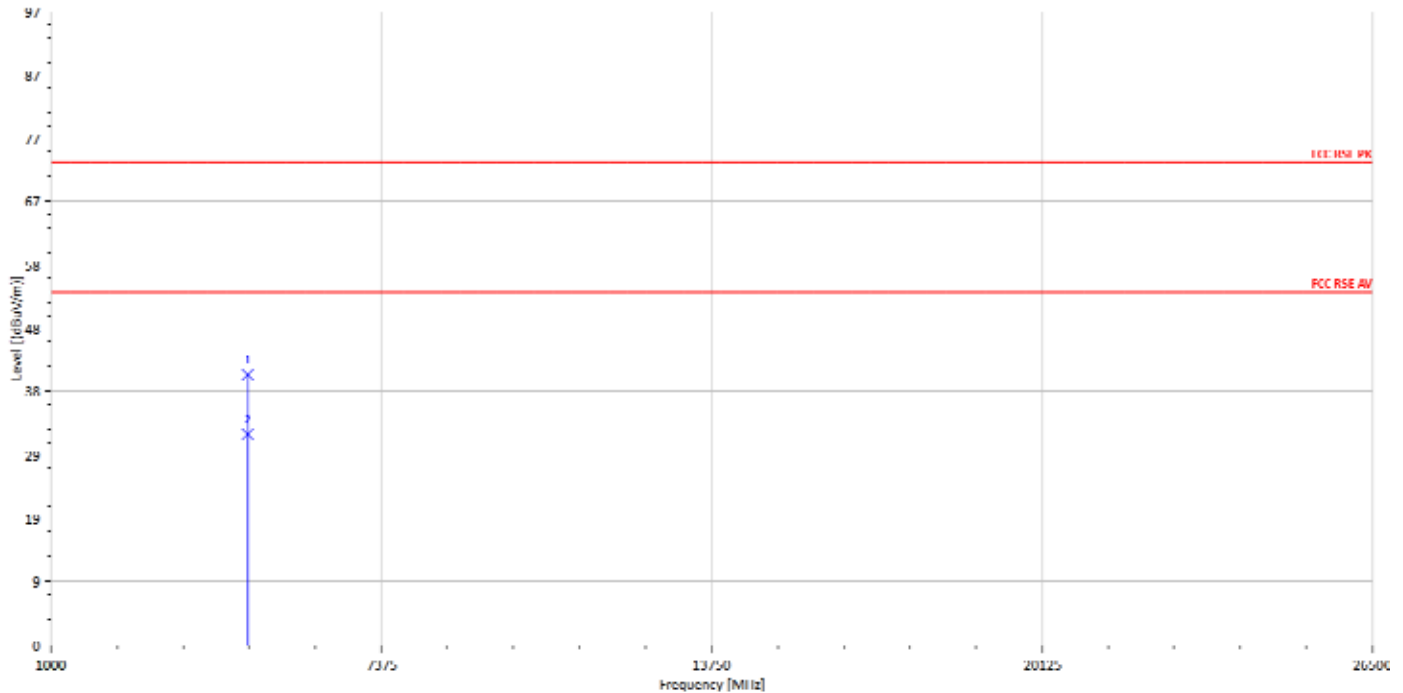
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Radiated Spurious Emission Measurement Result (Above 1GHz):

Operation Mode :	BT BR	Test Date :	2016/3/29
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	H	Peak	30.82	10.55	41.37	74	-32.63
4804.00	H	Average	21.76	10.55	32.31	54	-21.69

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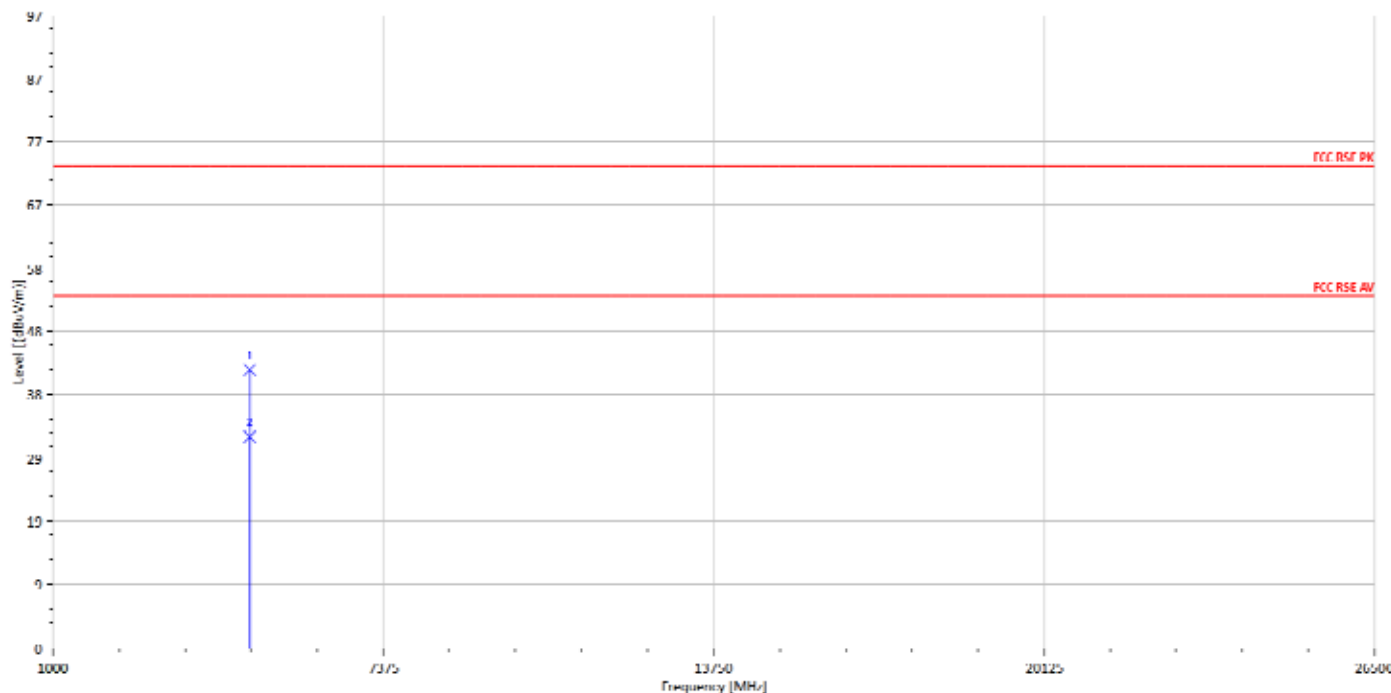
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Operation Mode : BT BR
Fundamental Frequency : 2402 MHz
Operation Band : Tx CH Low
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.00	H	Peak	32.12	10.55	42.67	74	-31.33
4804.00	H	Average	21.86	10.55	32.41	54	-21.59

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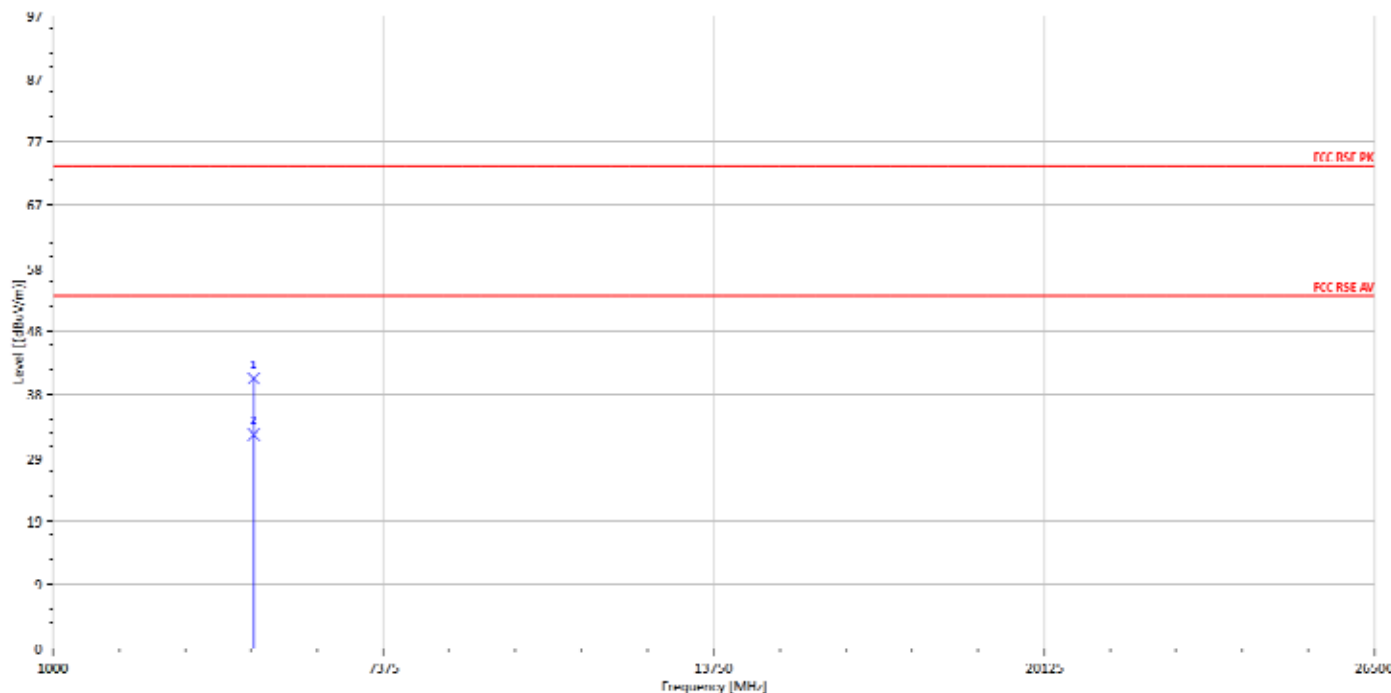
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Operation Mode : BT BR
Fundamental Frequency : 2441 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	H	Peak	30.89	10.44	41.32	74	-32.68
4882.00	H	Average	22.29	10.44	32.73	54	-21.27

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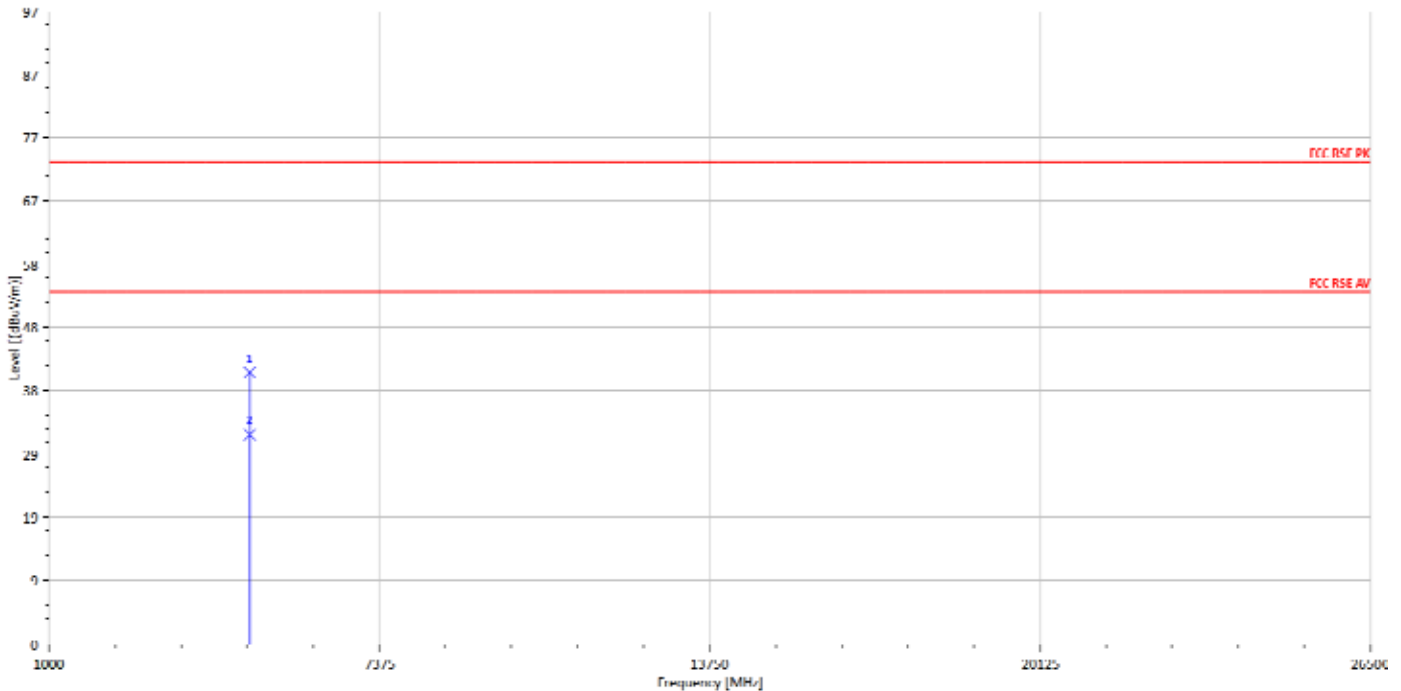
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Operation Mode : BT BR
Fundamental Frequency : 2441 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	H	Peak	31.21	10.44	41.65	74	-32.35
4882.00	H	Average	21.71	10.44	32.15	54	-21.85

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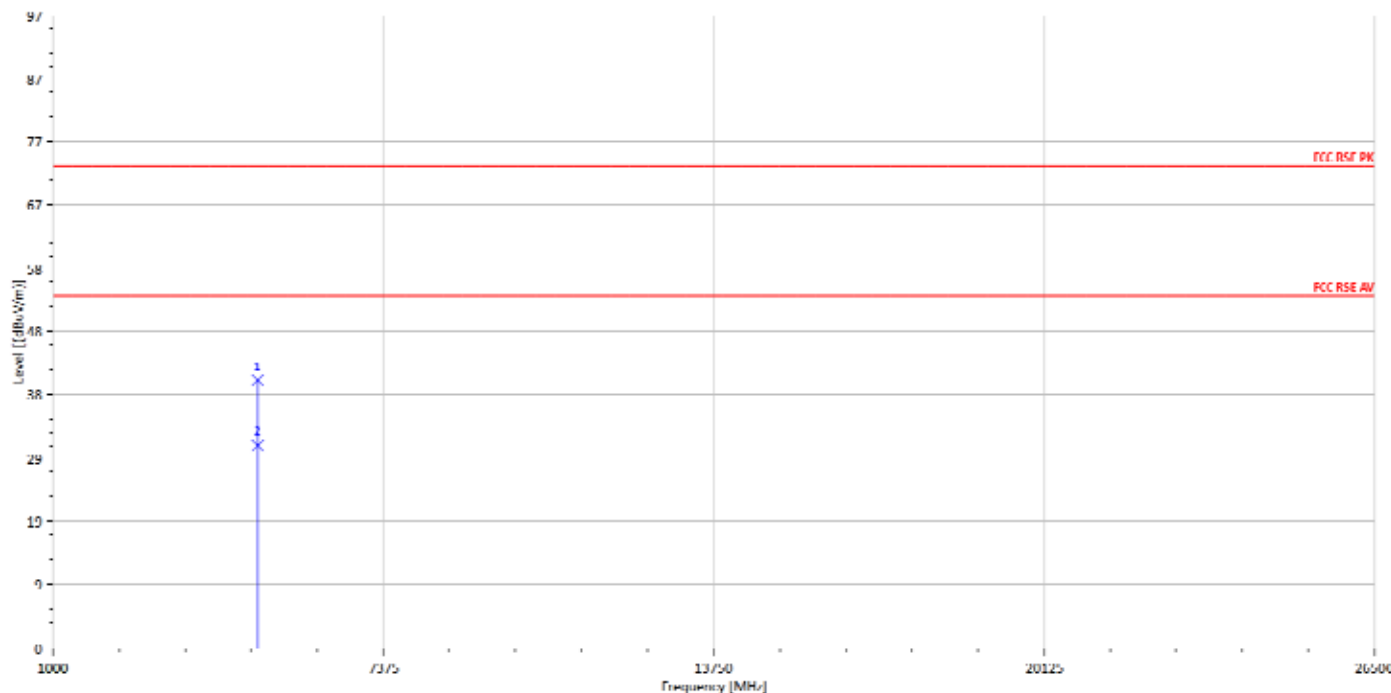
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Operation Mode : BT BR
Fundamental Frequency : 2480 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/3/29
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	H	Peak	30.80	10.27	41.07	74	-32.93
4960.00	H	Average	20.81	10.27	31.08	54	-22.92

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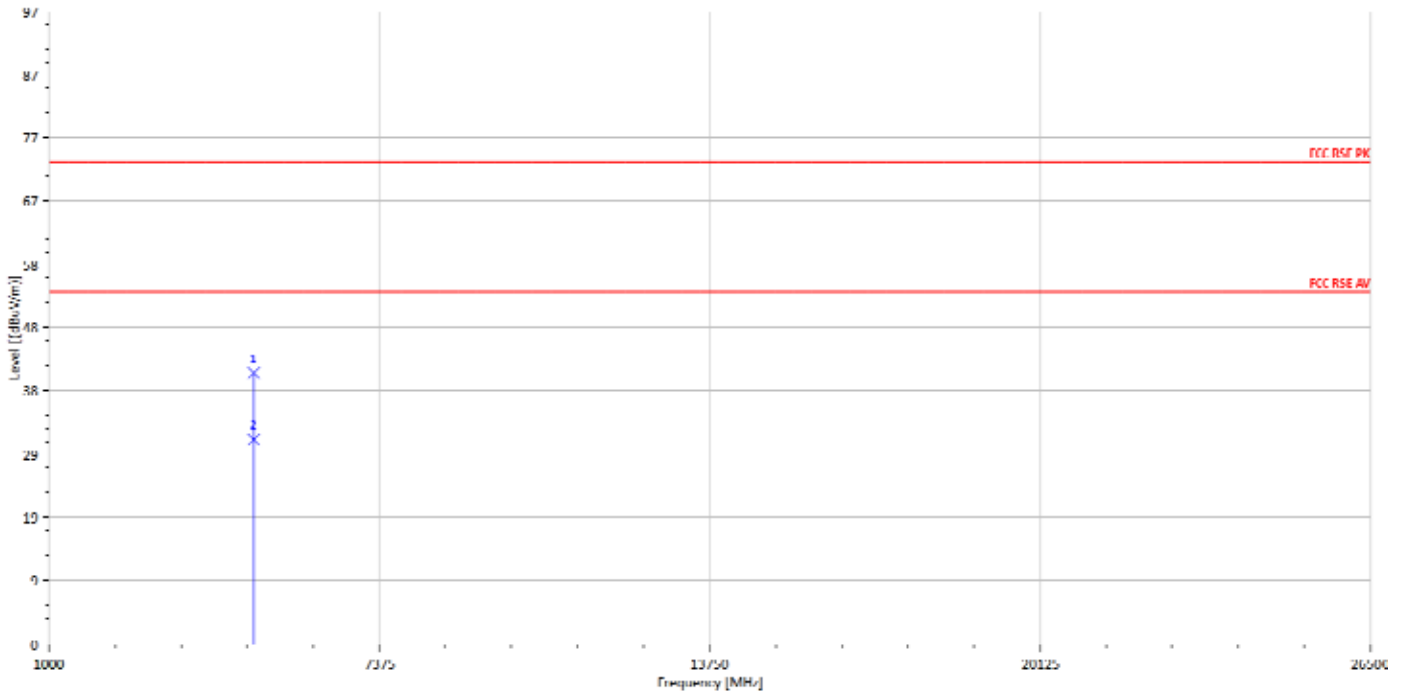
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Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.00	H	Peak	31.31	10.27	41.58	74	-32.42
4960.00	H	Average	21.12	10.27	31.39	54	-22.61

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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8 ANTENNA REQUIREMENT

8.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

8.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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