



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Applicant: STARVR CORPORATION
25F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei
City, Taiwan

Product Name: Head mounted display

Brand Name: STARVR

Model No.: H7102

Model Difference: N/A

FCC ID: 2AOJDH7102

Report Number: E2/2018/50005

FCC Rule Part: §15.247, Cat: DTS

Issue Date: May 28, 2018

Date of Test: May 11, 2018

Date of EUT Received: May 02, 2018

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.

Tested By:

Aken Huang / Engineer

Approved By:

Jim Chang / Manager



Testing Laboratory
0513

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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
E2/2018/50005	Rev.00	Initial creation of document	All	May 28, 2018	Elle Chang

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Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	6
3	SUMMARY OF TEST RESULTS	8
4	DESCRIPTION OF TEST MODES.....	9
5	MEASUREMENT UNCERTAINTY	11
6	CONDUCTED EMISSION TEST.....	12
7	PEAK OUTPUT POWER MEASUREMENT	16
8	6dB BANDWIDTH MEASUREMENT	19
9	CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	22
10	RADIATED BANEDGE AND SPURIOUS EMISSION MEASUREMENT.....	28
11	PEAK POWER SPECTRAL DENSITY	49
12	ANTENNA REQUIREMENT.....	52

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Head mounted display	
Brand Name:	STARVR	
Model No.:	H7102	
Model difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	19Vdc from Adapter and 5V USB port. Adapter: Model No.: ADP-45FE F, Supplier: DELTA	

2.4G port b:

Channel number:	79 channels
Channel Spacing:	1 MHz
Modulation type:	GFSK
Transmit Power:	1.48 dBm
Frequency Range:	2402 – 2480MHz

Antenna Designation

Antenna Type	Part Number	Supplier	Peak Gain (dBi)
Chip	N/A	N/A	-2.13

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v04.

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

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

FCC Registration Number and Designation number are: 735305 / TW0002

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 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 30MHz,. 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 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.

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2.5 Configuration of Tested System

Fig. 2-1 Conducted (Antenna Port) Emission Configuration



Fig 2-3 Conduction (AC Power Line) Radiated Emission

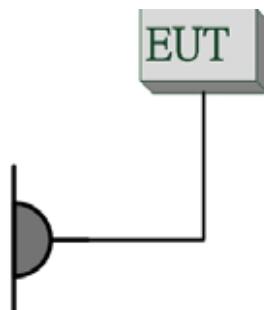


Fig 2-2 Radiated Emission

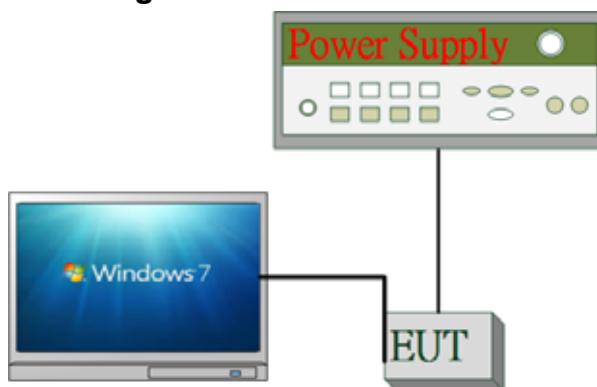


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	2.4G Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L430	R9-WR6X4	Shielded	Unshielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Unshielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for 2.4G

Item	FREQUENCY	Item	FREQUENCY	Item	FREQUENCY	Item	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	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.

RADIATED EMISSION TEST:

MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
RADIATED EMISSION TEST (BELOW 1 GHz)				
2.4G	2402 to 2480	2402, 2440, 2480	GFSK	1
RADIATED EMISSION TEST (ABOVE 1 GHz)				
2.4G	2402 to 2480	2402, 2440, 2480	GFSK	1

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 2.4G Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
2.4G	2402 to 2480	2402, 2440, 2480	GFSK	1

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
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: +/- 2.87 dB
	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: +/- 2.87 dB
	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 CONDUCTED EMISSION TEST

6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Notebook	Lenovo	T420	S0012599	N/A	N/A

6.3 EUT Setup:

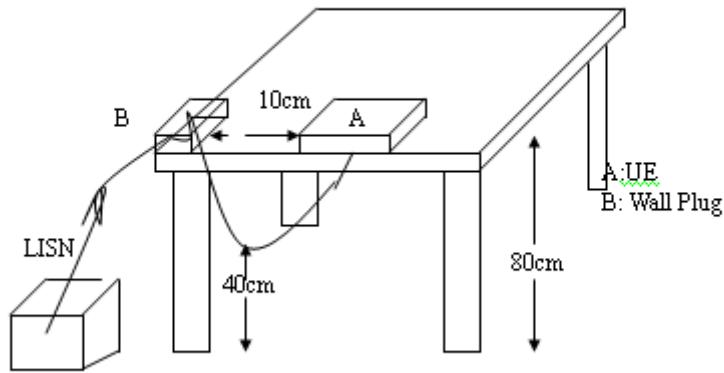
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plan.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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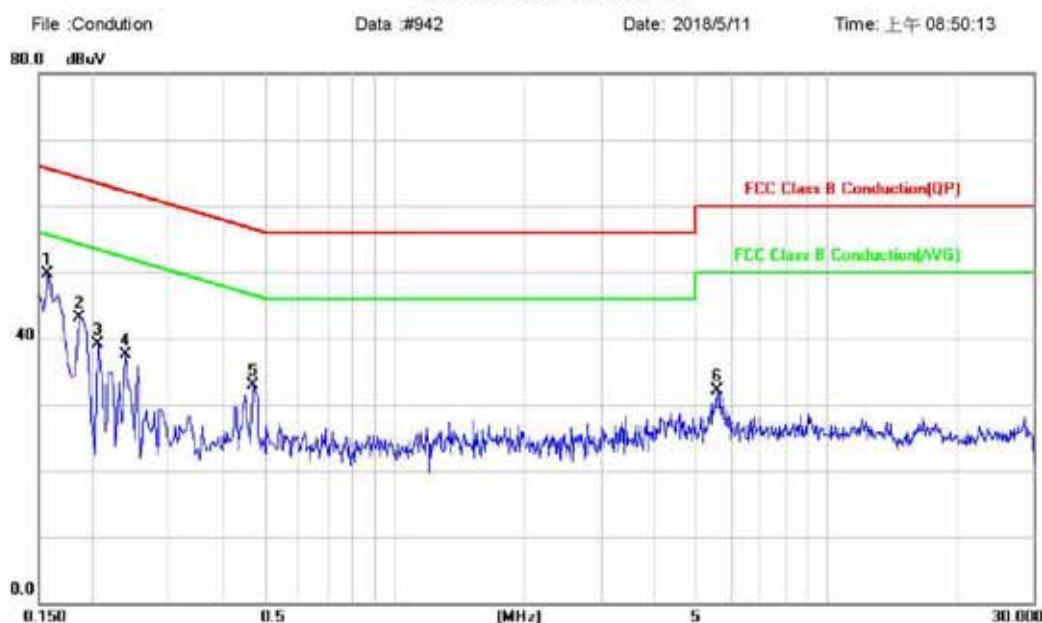
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Site : Conduction Room Phase: **L1** Temperature: 20 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 48 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1	*	0.1580	30.10	19.65	49.75	65.57	-15.82	peak	
2		0.1860	23.52	19.64	43.16	64.21	-21.05	peak	
3		0.2060	19.41	19.65	39.06	63.37	-24.31	peak	
4		0.2380	17.88	19.70	37.58	62.17	-24.59	peak	
5		0.4700	12.79	20.08	32.87	56.51	-23.64	peak	
6		5.5700	12.09	20.09	32.18	60.00	-27.82	peak	

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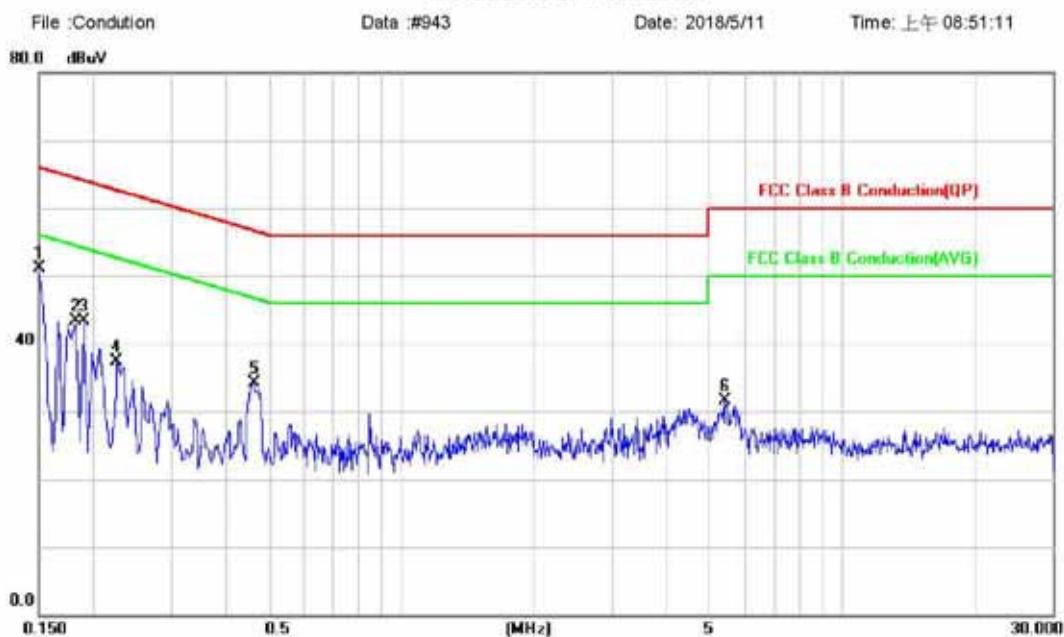
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Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode:
Note:

Phase: **N**
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 48 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1 *		0.1500	31.51	19.64	51.15	66.00	-14.85	peak	
2		0.1820	23.76	19.63	43.39	64.39	-21.00	peak	
3		0.1900	23.64	19.62	43.26	64.04	-20.78	peak	
4		0.2260	17.74	19.66	37.40	62.60	-25.20	peak	
5		0.4620	14.13	20.06	34.19	56.66	-22.47	peak	
6		5.4460	11.52	20.07	31.59	60.00	-28.41	peak	

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

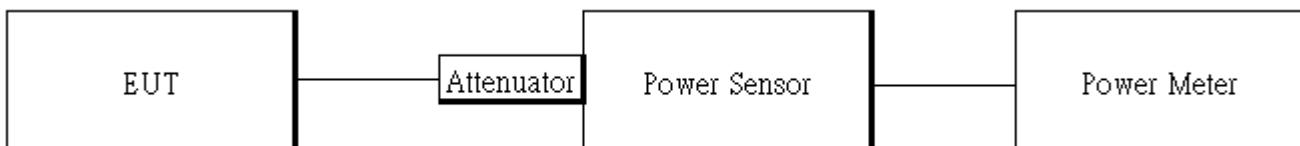
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	07/26/2017	07/25/2018
Power Sensor	Anritsu	MA2411B	1315048	07/26/2017	07/25/2018
Power Sensor	Anritsu	MA2411B	1315049	07/26/2017	07/25/2018
Notebook	Lenovo	T420	S0012599	N/A	N/A

7.3 Test Set-up:



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7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

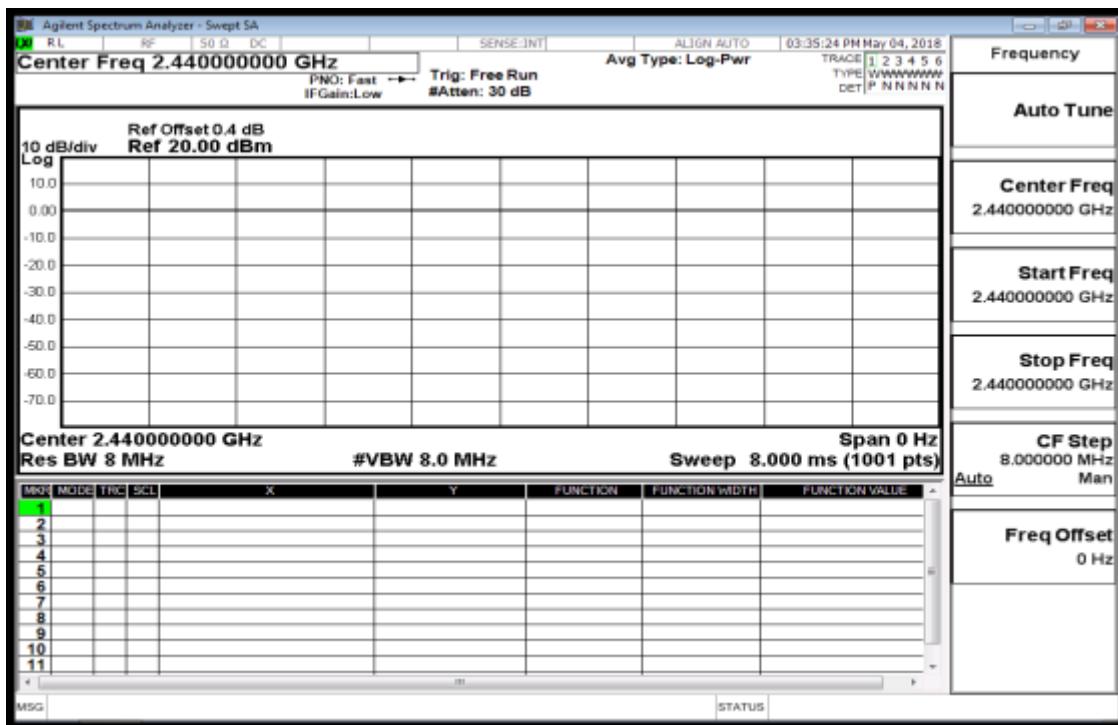
Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Duty Factor:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
2.4G	100.00	0.00	0.13	1.00

$$\text{Duty Cycle Factor: } 10 \times \log(1/(100/100)) = 0$$



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7.5 Measurement Result:

2.4G mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	0.35	1 Watt = 30 dBm
19	2440	1.06	1 Watt = 30 dBm
39	2480	1.48	1 Watt = 30 dBm

2.4G mode:

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	0.12	1 Watt = 30 dBm
19	2440	0.85	1 Watt = 30 dBm
39	2480	1.29	1 Watt = 30 dBm

*Note: Measured by power meter, 2.4G loss as 0.4 dB that offsets on the power meter

*Note: Measured by power meter, as Duty cycle factor that offsets on the power meter in Peak.

*Note: Max. Output include tune up tolerance Power is average power

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8 6DB BANDWIDTH MEASUREMENT

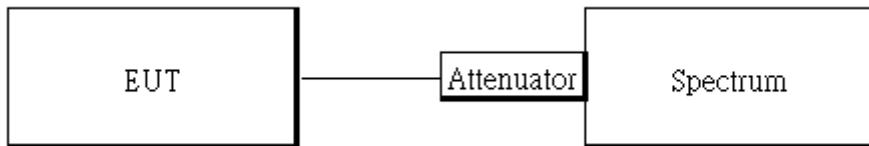
8.1 Standard Applicable

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

8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Notebook	Lenovo	T420	S0012599	N/A	N/A

8.3 Test Set-up:



8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
5. Mark the peak frequency and –6dB (upper and lower) frequency.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW=3*RBW, Span = 2MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all test default channel is completed

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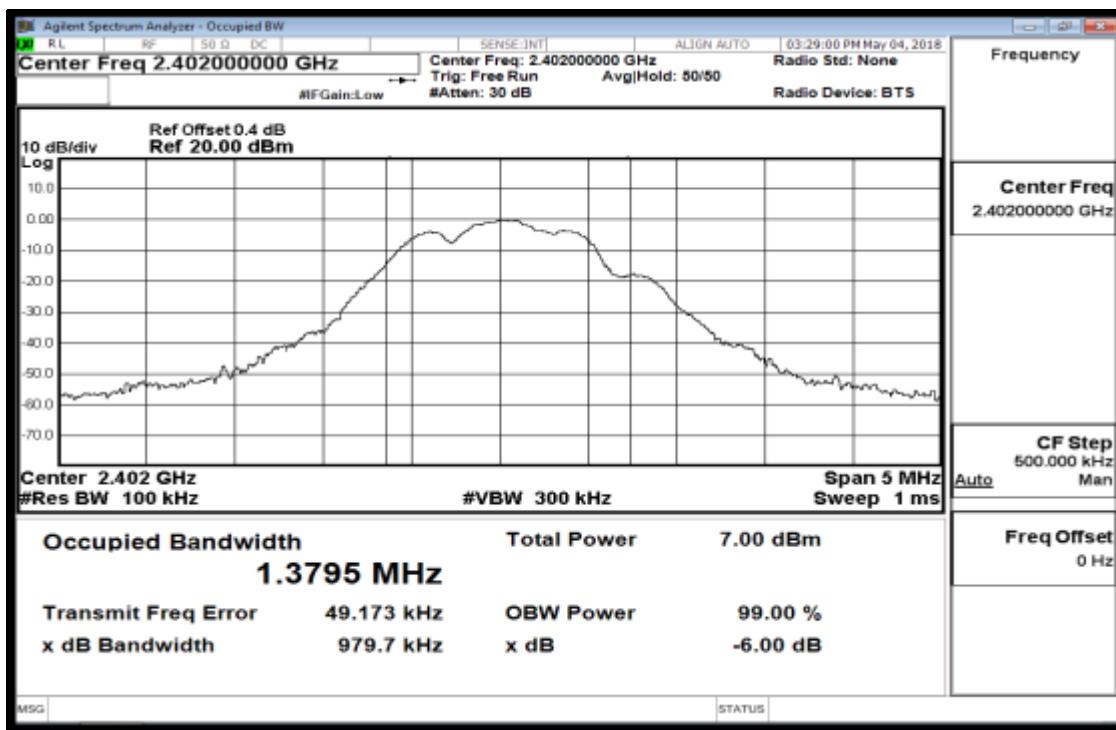
8.5 Measurement Result:

2.4G mode

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	0.98	> 0.5	PASS
2440	0.961	> 0.5	PASS
2480	0.996	> 0.5	PASS

Note: Refer to next page for plots.

6dB Band Width Test Data CH-Low

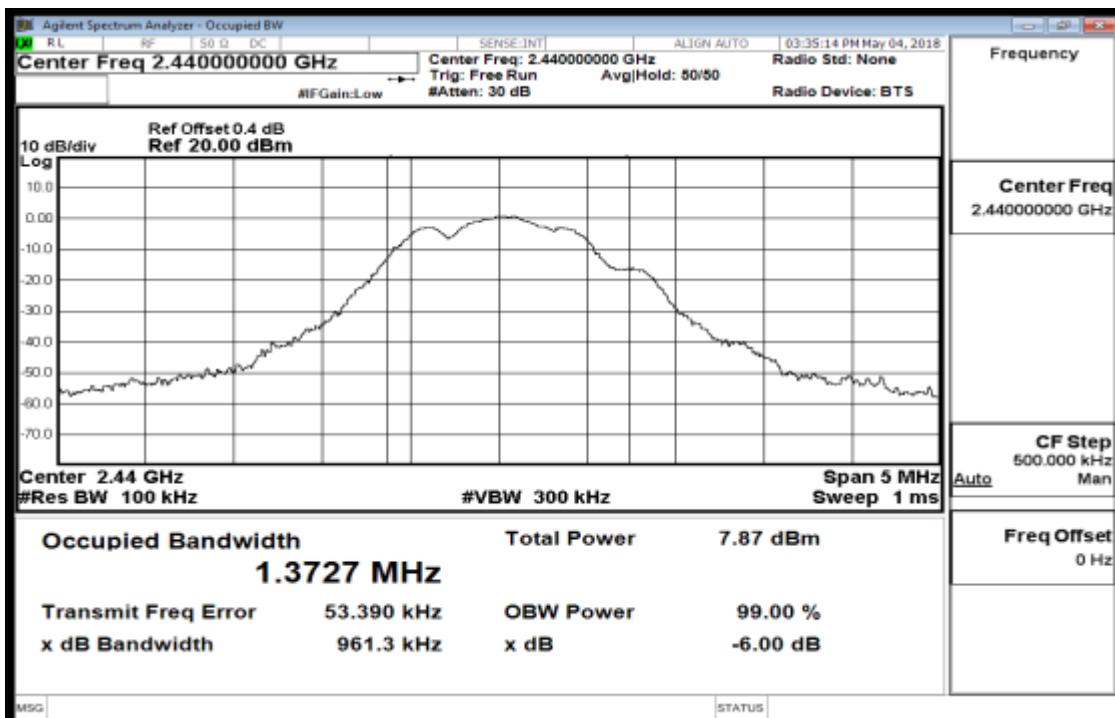


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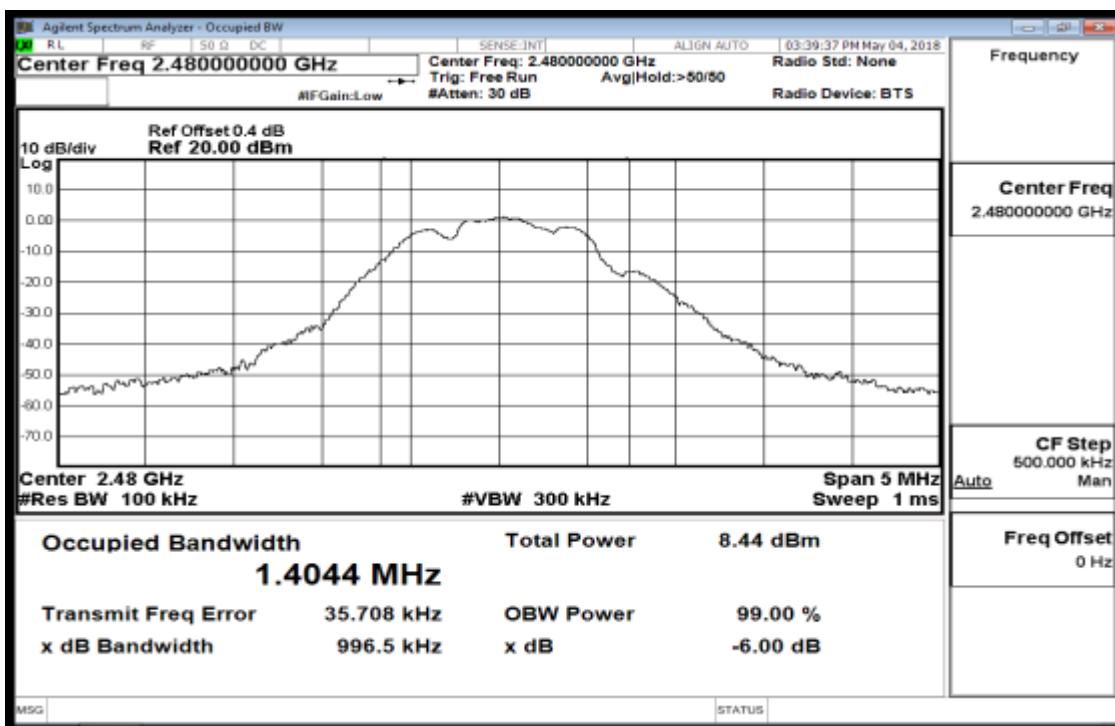
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

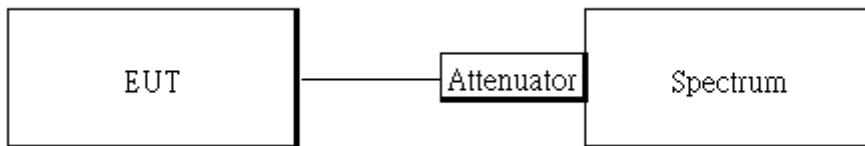
9.1 Standard Applicable

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, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Notebook	Lenovo	T420	S0012599	N/A	N/A

9.3 Test SET-UP:



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9.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

9.5 Measurement Result

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	-0.24	-20.24
2480	1.05	-18.95

NOTE: 2.4G loss as 0.4dB that offsets in the spectrum

NOTE: Refer to next page for plots.

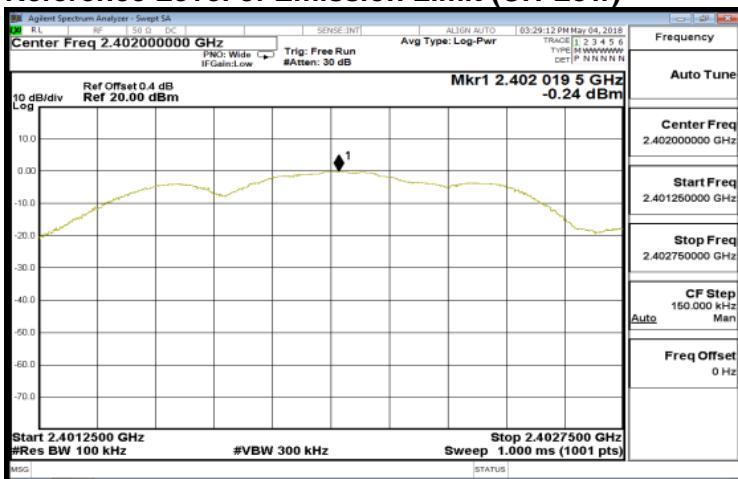
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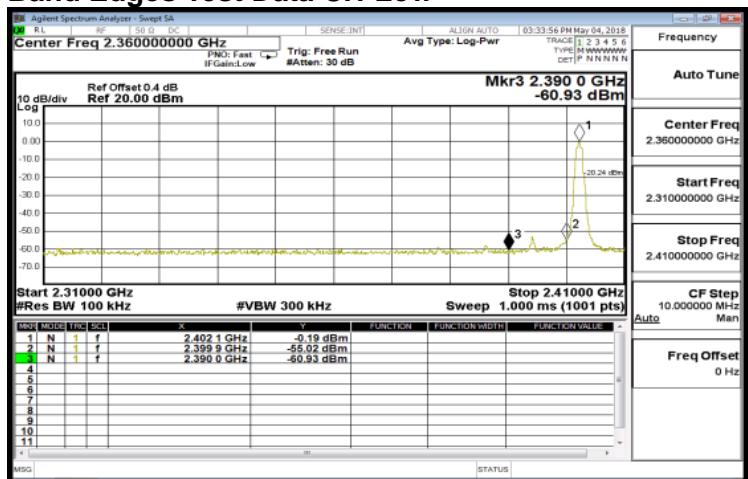
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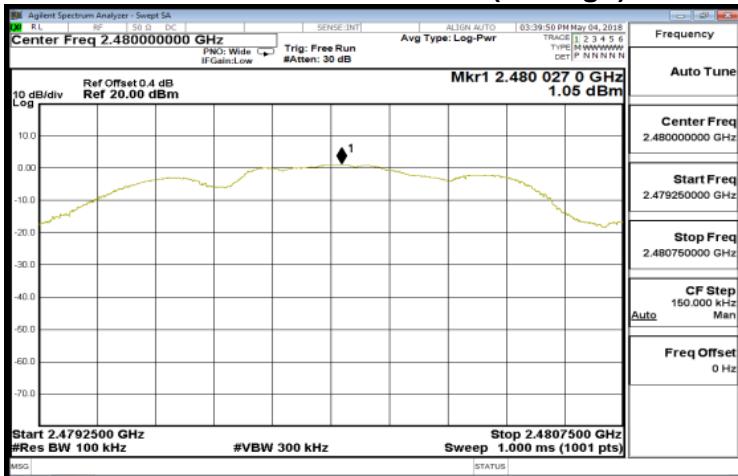
Reference Level of Emission Limit (CH-Low)



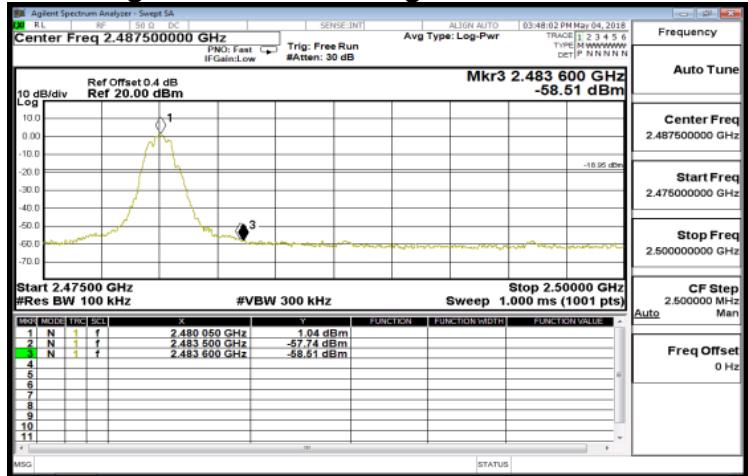
Band Edges Test Data CH-Low



Reference Level of Emission Limit (CH-High)



Band Edges Test Data CH-High



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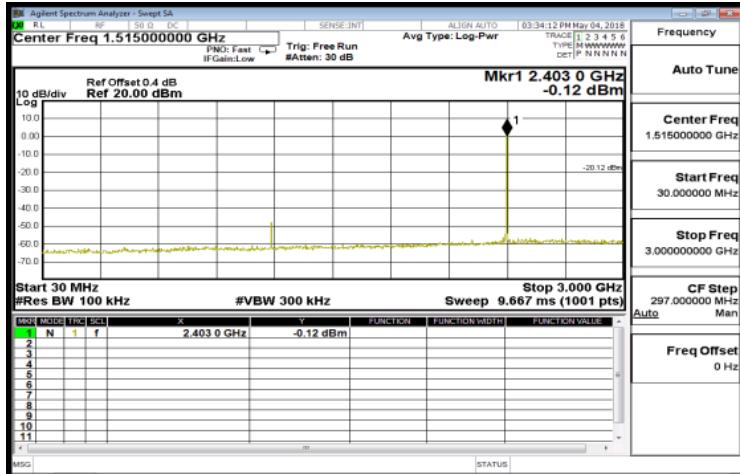
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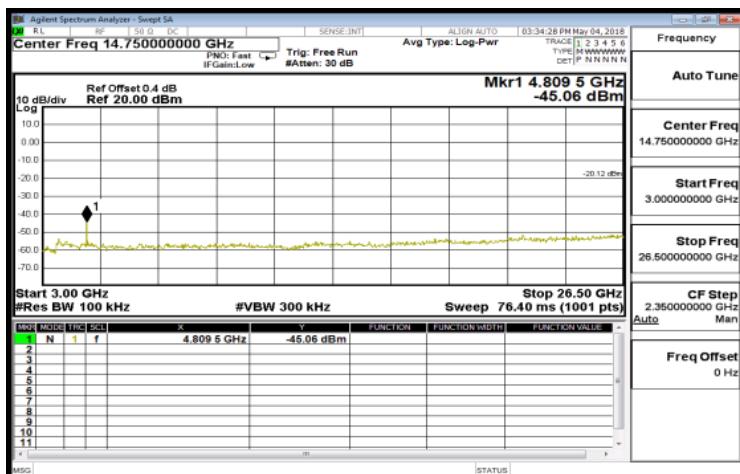


Conducted Spurious Emission Measurement Result

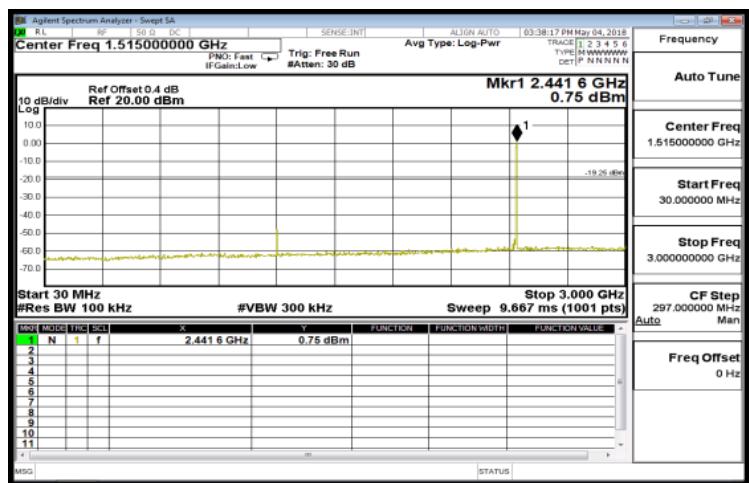
CH-Low 30MHz – 3GHz



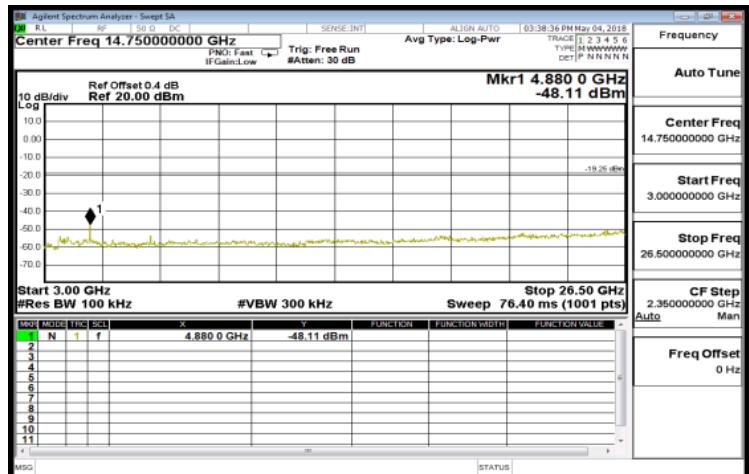
CH-Low 3GHz – 26.5GHz



CH-Mid 30MHz – 3GHz



CH-Mid 3GHz – 26.5GHz



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t (886-2) 2299-3279

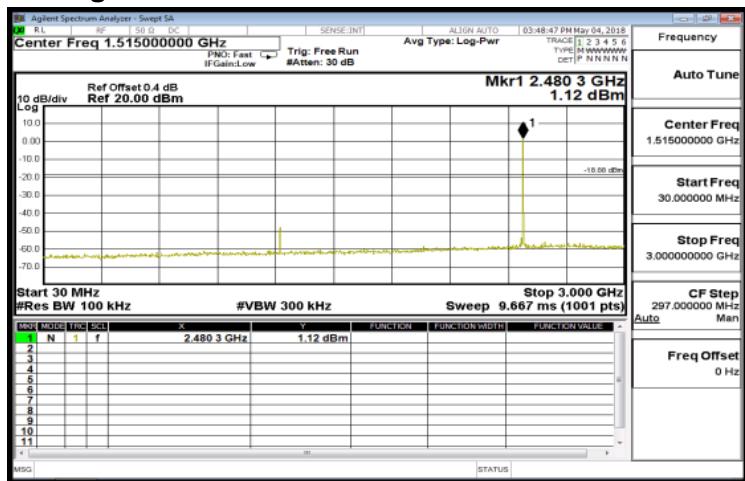
f (886-2) 2298-0488

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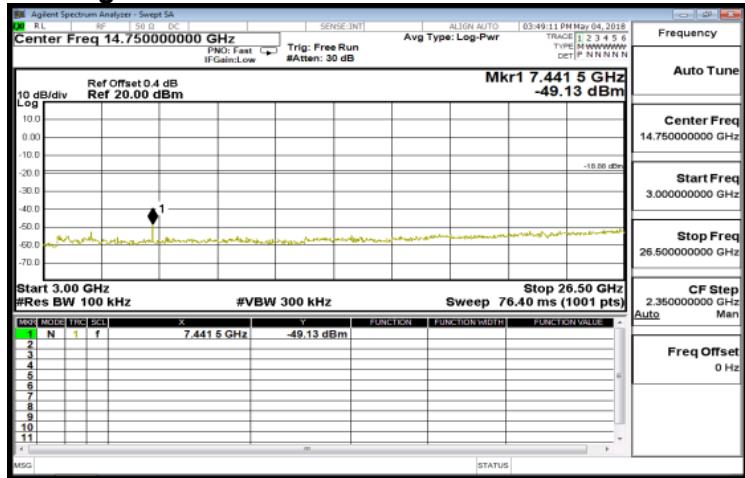
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CH-High 30MHz – 3GHz



CH- High 3GHz – 26.5GHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 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 (dB μ V/m) = 20 log Emission level (dB μ V/m)

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10.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	10/27/2017	10/26/2018
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2017	05/30/2018
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/12/2017	12/11/2018
Loop Antenna	ETS.LINDGREN	6502	148045	09/26/2017	09/25/2018
3m Site NSA	SGS	966 chamber D	N/A	07/06/2017	07/05/2018
EMI Test Receiver	R&S	ESU 40	100363	04/11/2018	04/10/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2017	10/26/2018
Pre-Amplifier	EMC Instruments	EMC9135	980234	12/26/2017	12/25/2018
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	12/26/2017	12/25/2018
Attenuator	Marvelous	WATT-218FS-10	RF246	12/26/2017	12/25/2018
Highpass Filter	Micro Tronics	BRM50701-01	G008	12/26/2017	12/25/2018
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	12/26/2017	12/25/2018
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	12/26/2017	12/25/2018
Notebook	Lenovo	L420	S0012467	N/A	N/A

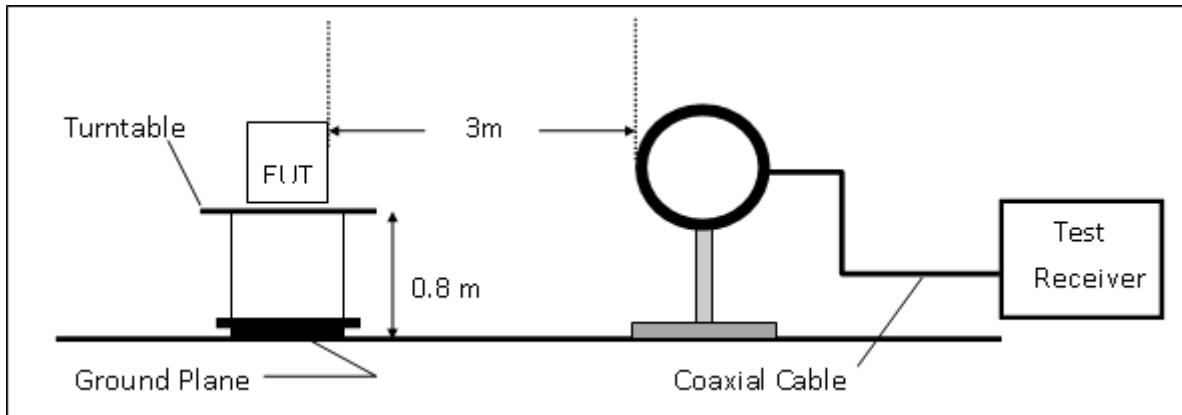
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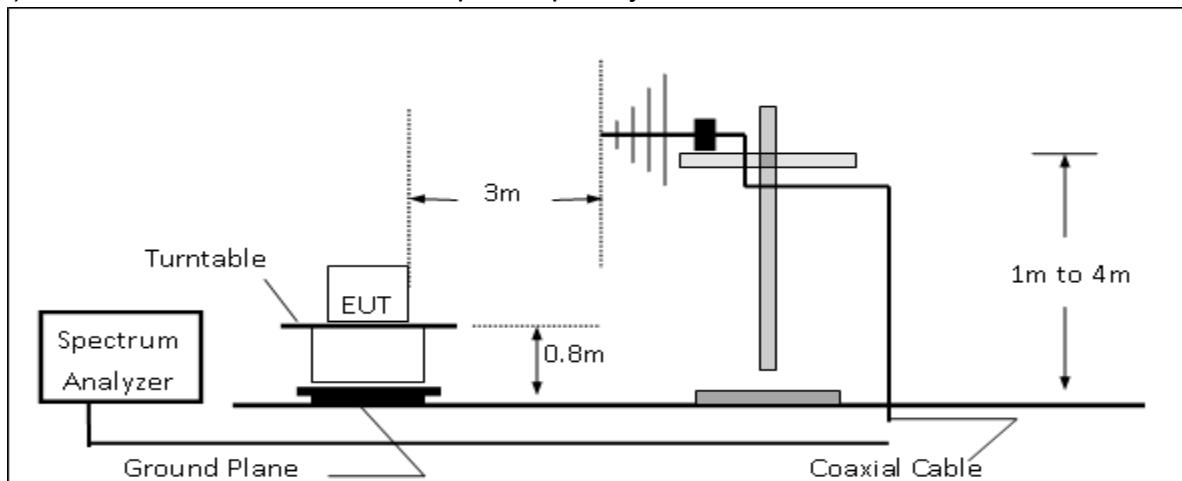
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10.3 Test SET-UP

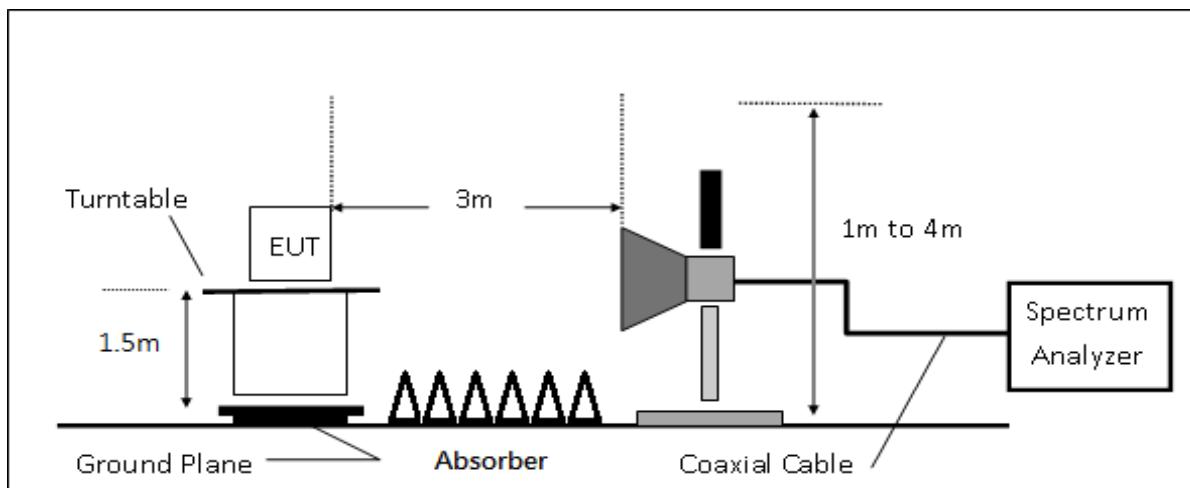
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency from 30MHz to 1000MHz



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



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10.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m 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. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
8. 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
11. Repeat above procedures until all default test channel measured were complete.

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10.5 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	

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

Factor(dB) = Antenna Factor(dB μ V/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.

10.6 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.

10.7 Measurement Result:

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

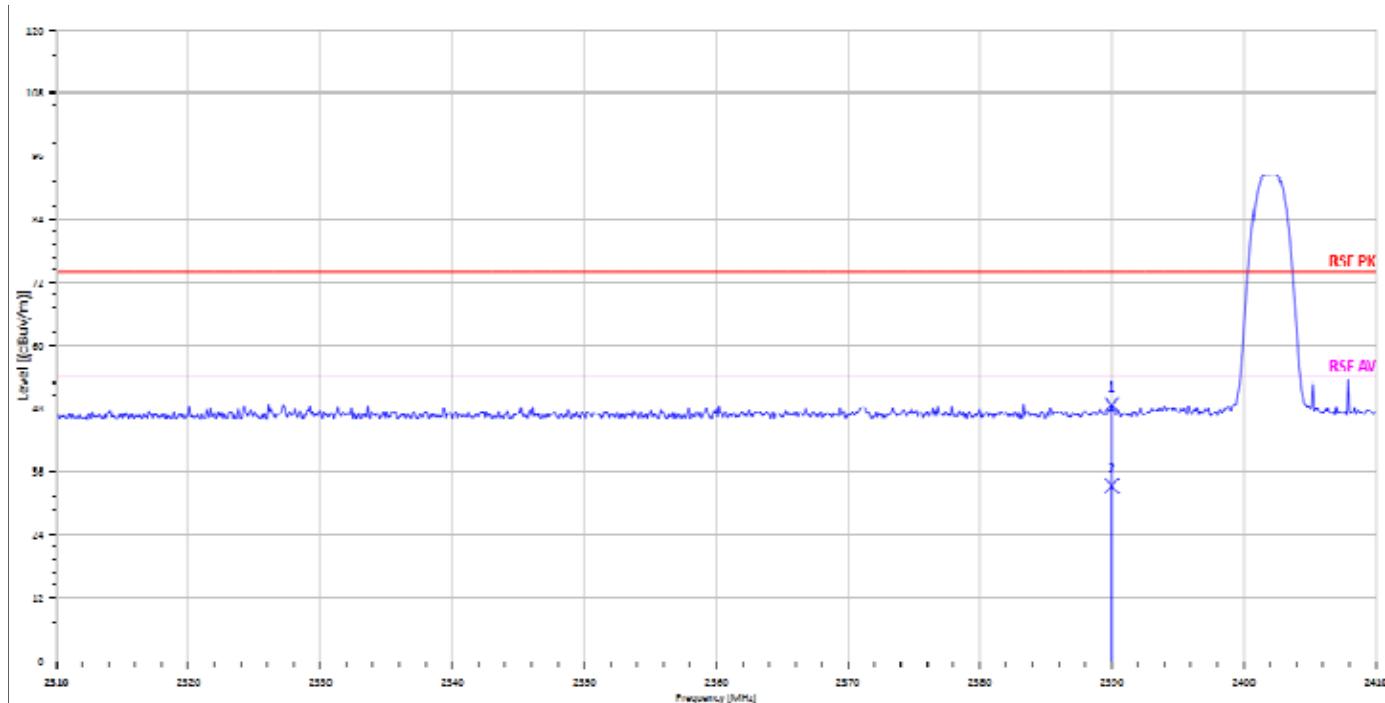
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Radiated Band Edge Measurement Result

Operation Mode : 2.4G Test Date : 2018/5/10
 Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



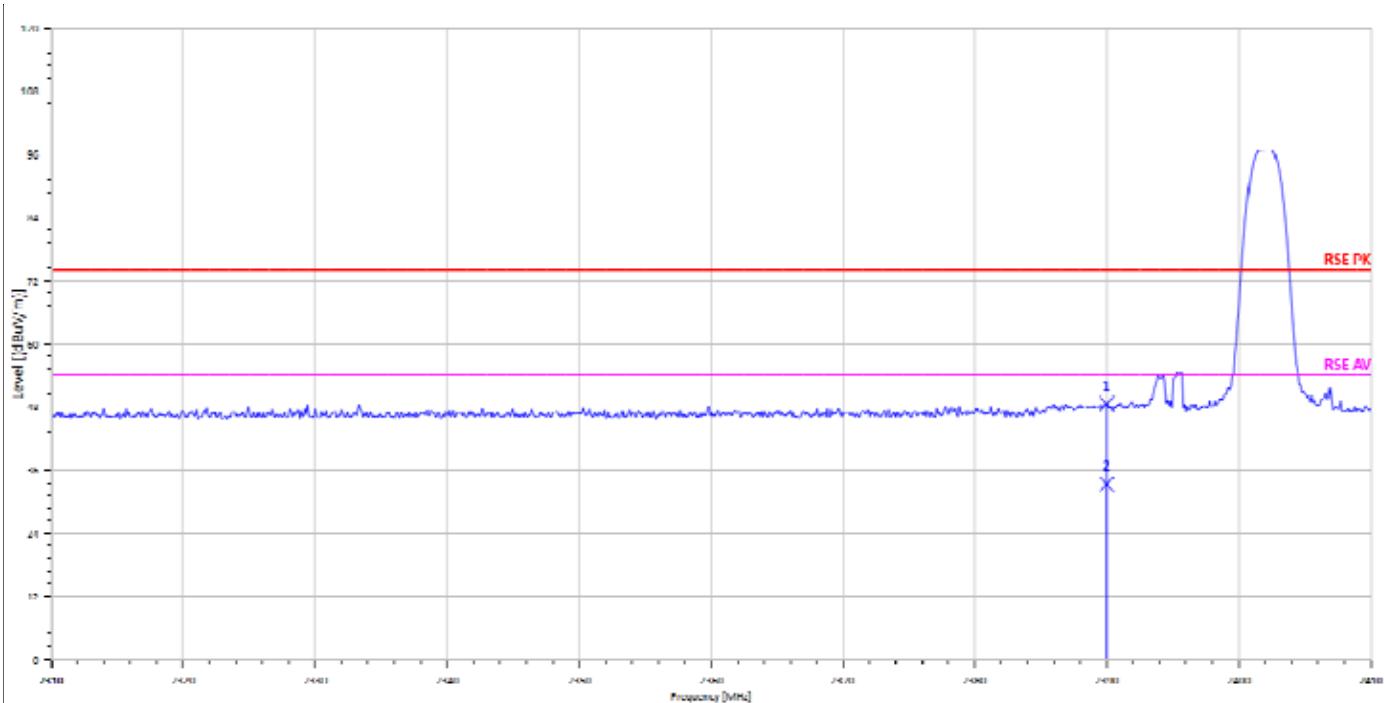
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	E	Peak	55.54	-6.84	48.70	74	-25.30
2390.00	E	Average	40.10	-6.84	33.25	54	-20.75

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Operation Mode : 2.4G Test Date : 2018/5/10
Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



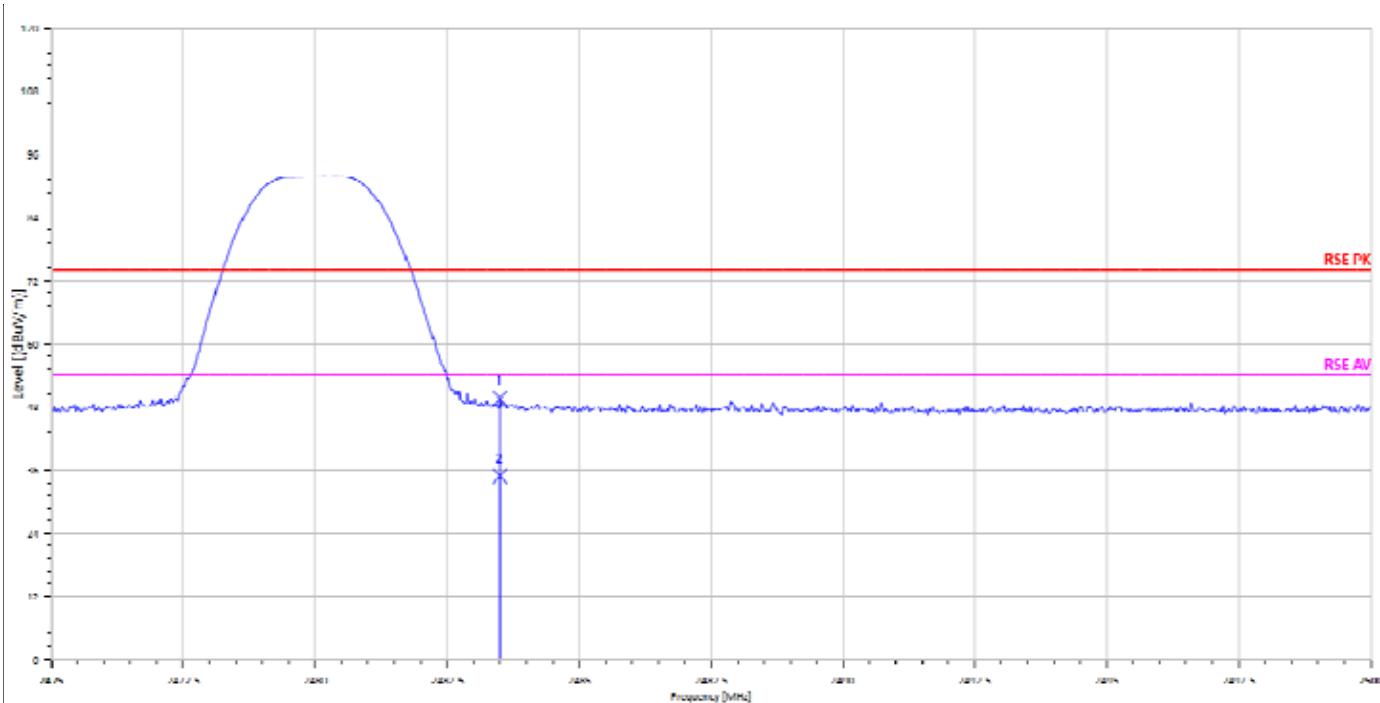
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	55.37	-6.84	48.52	74	-25.48
2390.00	E	Average	40.17	-6.84	33.32	54	-20.68

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Operation Mode : 2.4G Test Date : 2018/5/10
 Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



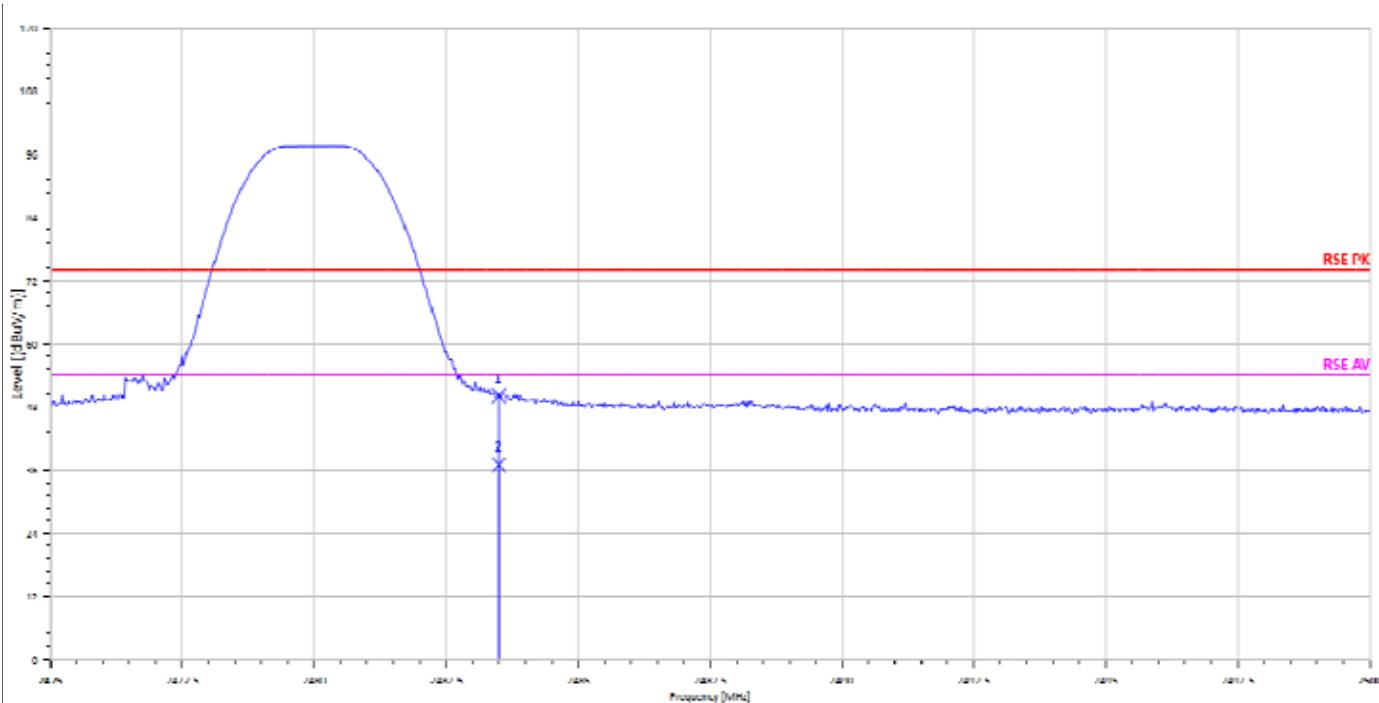
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	E	Peak	55.95	-6.38	49.57	74	-24.43
2483.50	E	Average	41.22	-6.38	34.83	54	-19.17

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Operation Mode : 2.4G Test Date : 2018/5/10
 Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 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
2483.50	E	Peak	56.49	-6.38	50.11	74	-23.89
2483.50	E	Average	43.35	-6.38	36.97	54	-17.03

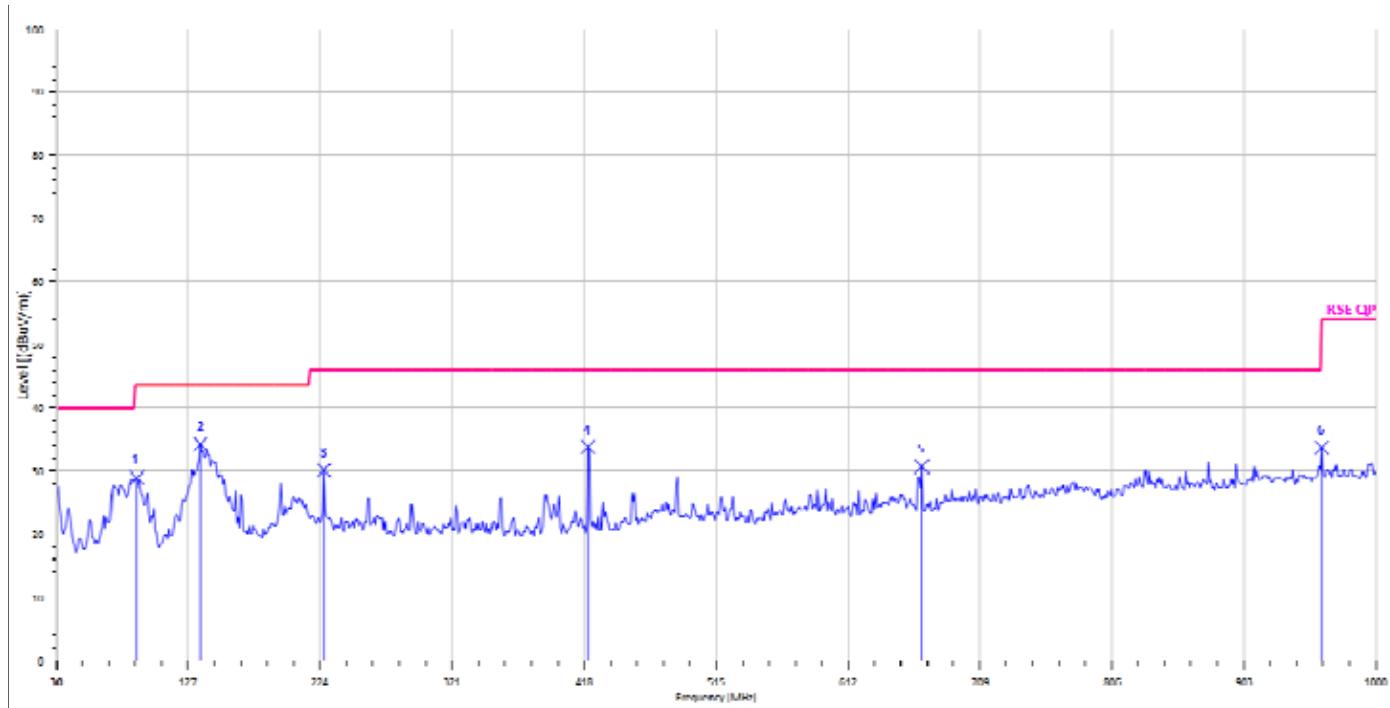
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Radiated Spurious Emission Measurement Result For Frequency from 30MHz to 1000MHz

Operation Mode : 2.4G Test Date : 2018/5/11
 Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



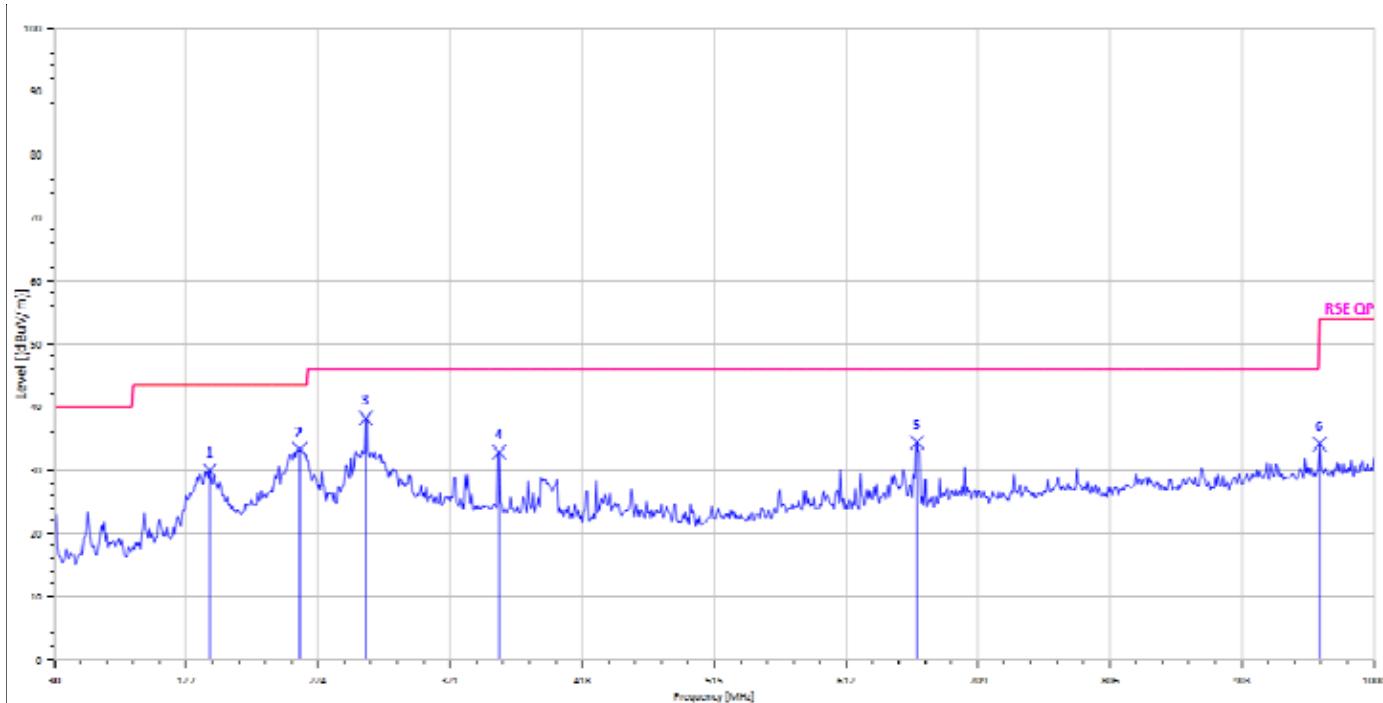
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
89.17	S	Peak	51.54	-22.66	28.88	43.5	-14.62
135.73	S	Peak	51.19	-16.95	34.24	43.5	-9.26
226.91	S	Peak	48.14	-18.01	30.14	46	-15.86
420.91	S	Peak	45.88	-12.09	33.79	46	-12.21
666.32	S	Peak	39.20	-8.48	30.72	46	-15.28
960.23	S	Peak	38.13	-4.46	33.67	54	-20.33

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Operation Mode : 2.4G Test Date : 2018/5/11
 Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



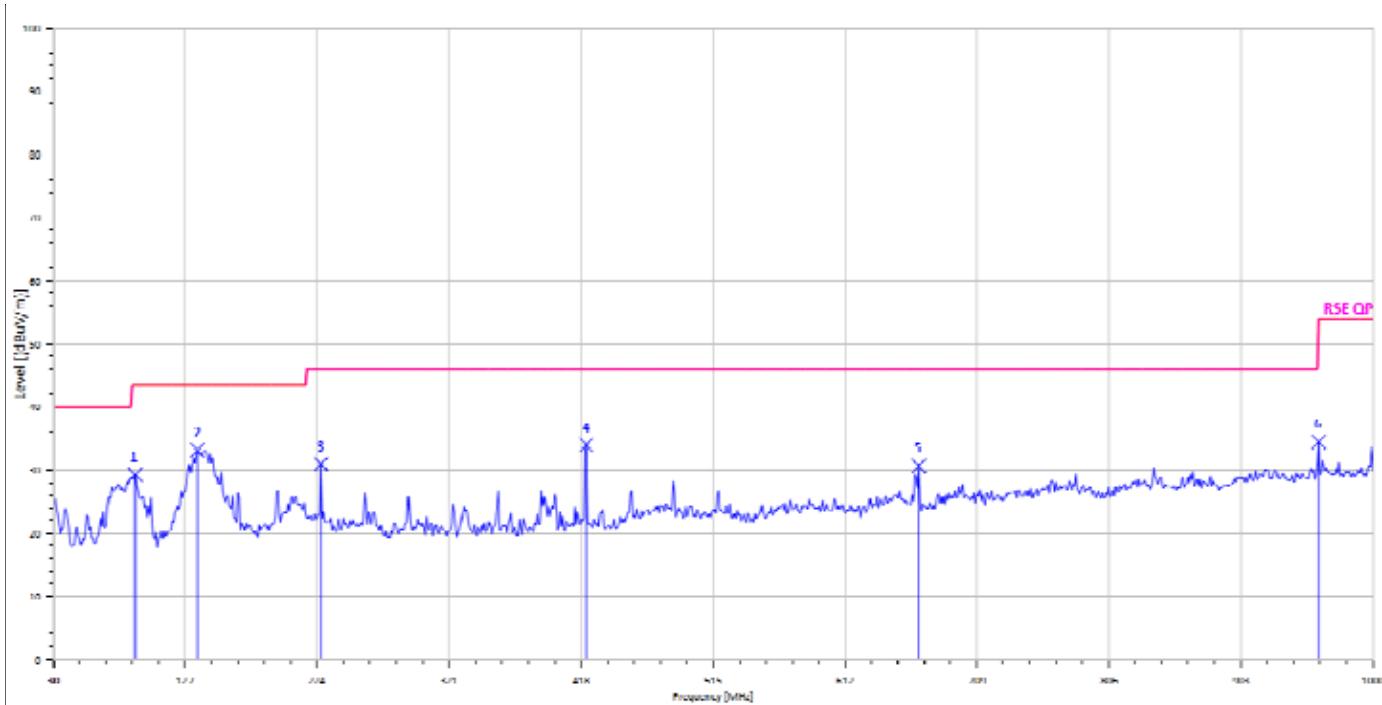
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
144.46	S	Peak	46.09	-16.17	29.91	43.5	-13.59
210.42	S	Peak	51.77	-18.53	33.24	43.5	-10.26
258.92	S	Peak	55.32	-17.12	38.20	46	-7.80
356.89	S	Peak	46.91	-14.10	32.81	46	-13.19
664.38	S	Peak	42.74	-8.37	34.37	46	-11.63
960.23	S	Peak	38.59	-4.46	34.13	54	-19.87

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Operation Mode : 2.4G Test Date : 2018/5/11
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



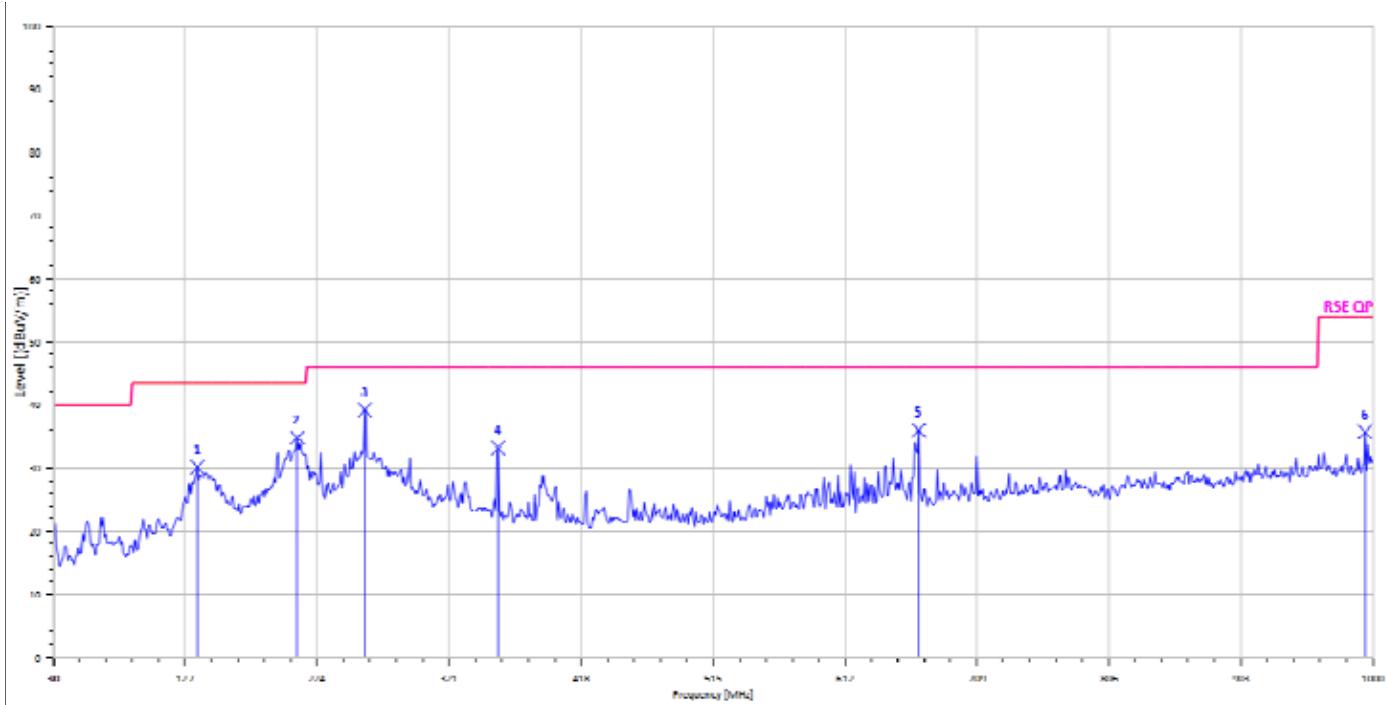
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
90.14	S	Peak	52.03	-22.78	29.25	43.5	-14.25
135.73	S	Peak	50.06	-16.95	33.11	43.5	-10.39
226.91	S	Peak	48.92	-18.01	30.92	46	-15.08
421.88	S	Peak	46.10	-12.14	33.95	46	-12.05
666.32	S	Peak	39.08	-8.48	30.60	46	-15.40
960.23	S	Peak	38.91	-4.46	34.45	54	-19.55

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Operation Mode : 2.4G Test Date : 2018/5/11
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



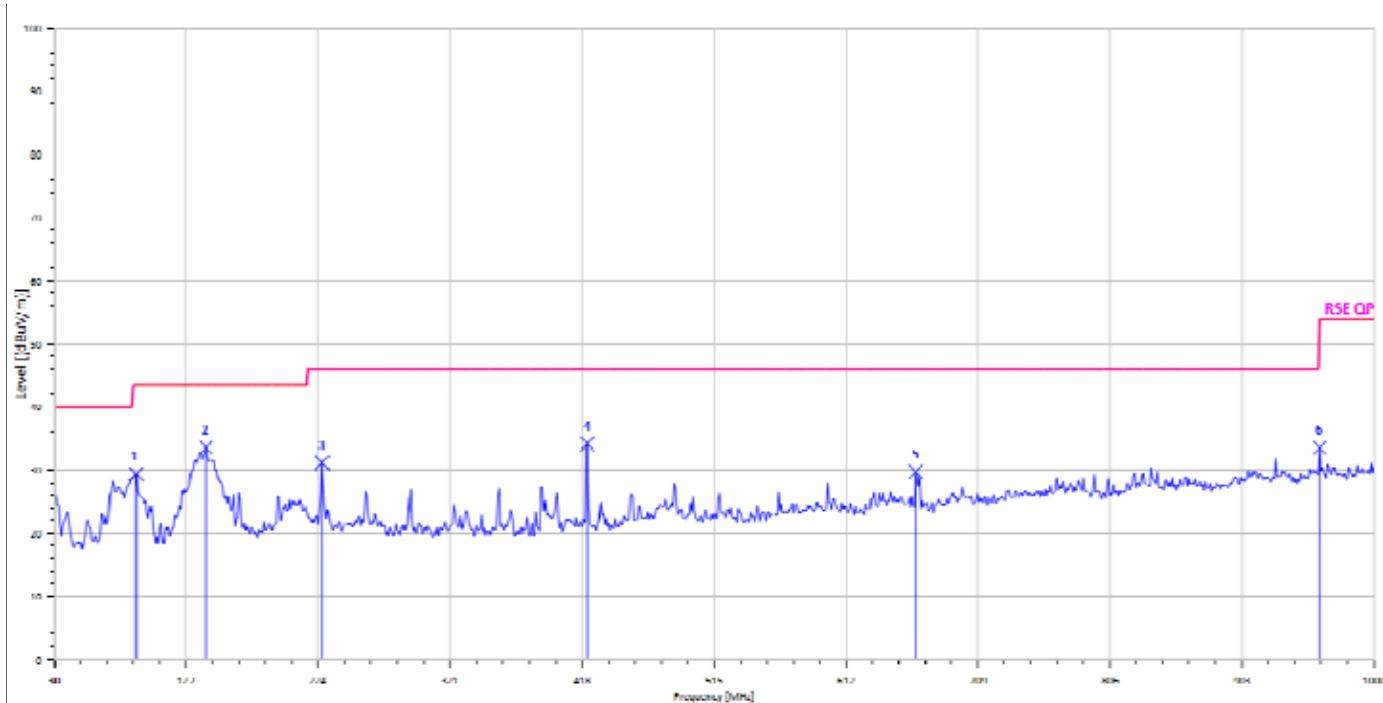
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
135.73	S	Peak	47.07	-16.95	30.12	43.5	-13.38
209.45	S	Peak	53.35	-18.53	34.81	43.5	-8.69
258.92	S	Peak	56.28	-17.12	39.16	46	-6.84
356.89	S	Peak	47.25	-14.10	33.15	46	-12.85
666.32	S	Peak	44.43	-8.48	35.95	46	-10.05
994.18	S	Peak	39.62	-3.93	35.69	54	-18.31

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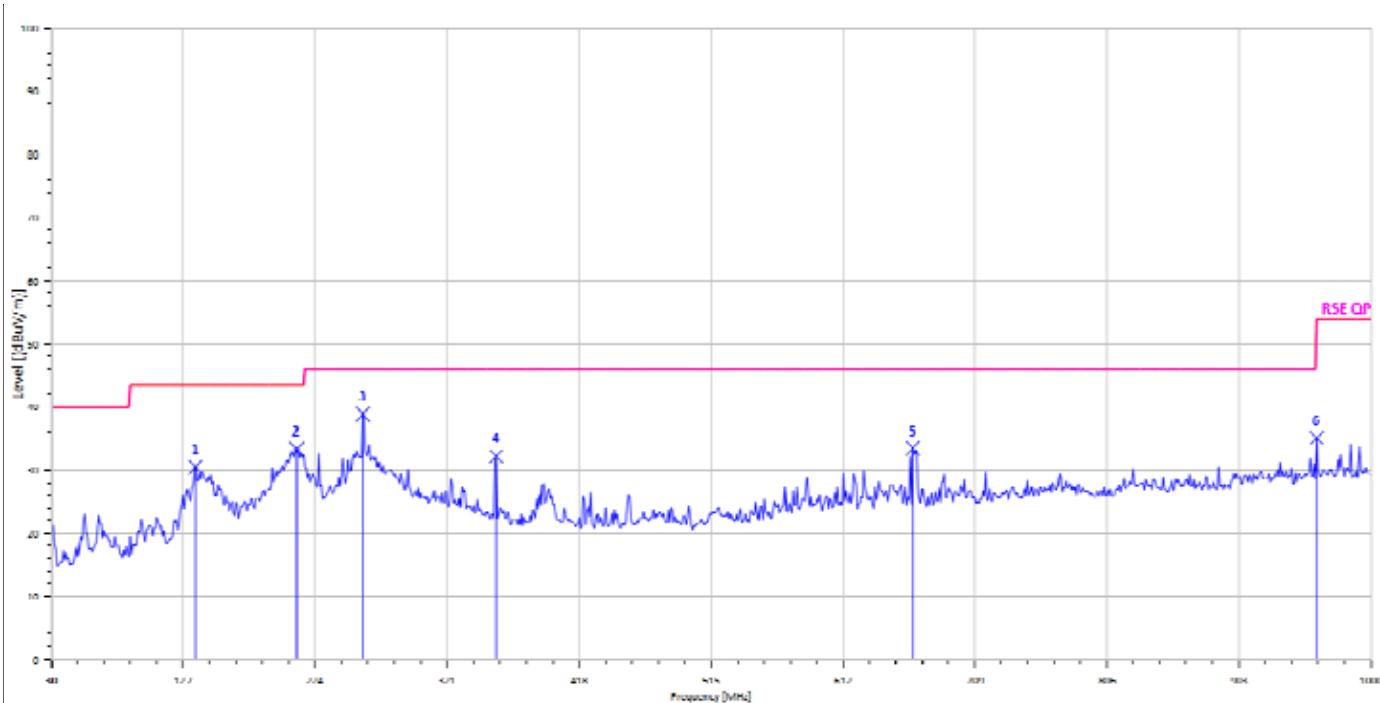
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Operation Mode : 2.4G Test Date : 2018/5/11
 Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Operation Mode : 2.4G Test Date : 2018/5/11
 Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 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
135.73	S	Peak	47.37	-16.95	30.42	43.5	-13.08
210.42	S	Peak	51.79	-18.53	33.25	43.5	-10.25
258.92	S	Peak	55.95	-17.12	38.83	46	-7.17
356.89	S	Peak	46.25	-14.10	32.16	46	-13.84
663.41	S	Peak	41.73	-8.32	33.41	46	-12.59
960.23	S	Peak	39.52	-4.46	35.05	54	-18.95

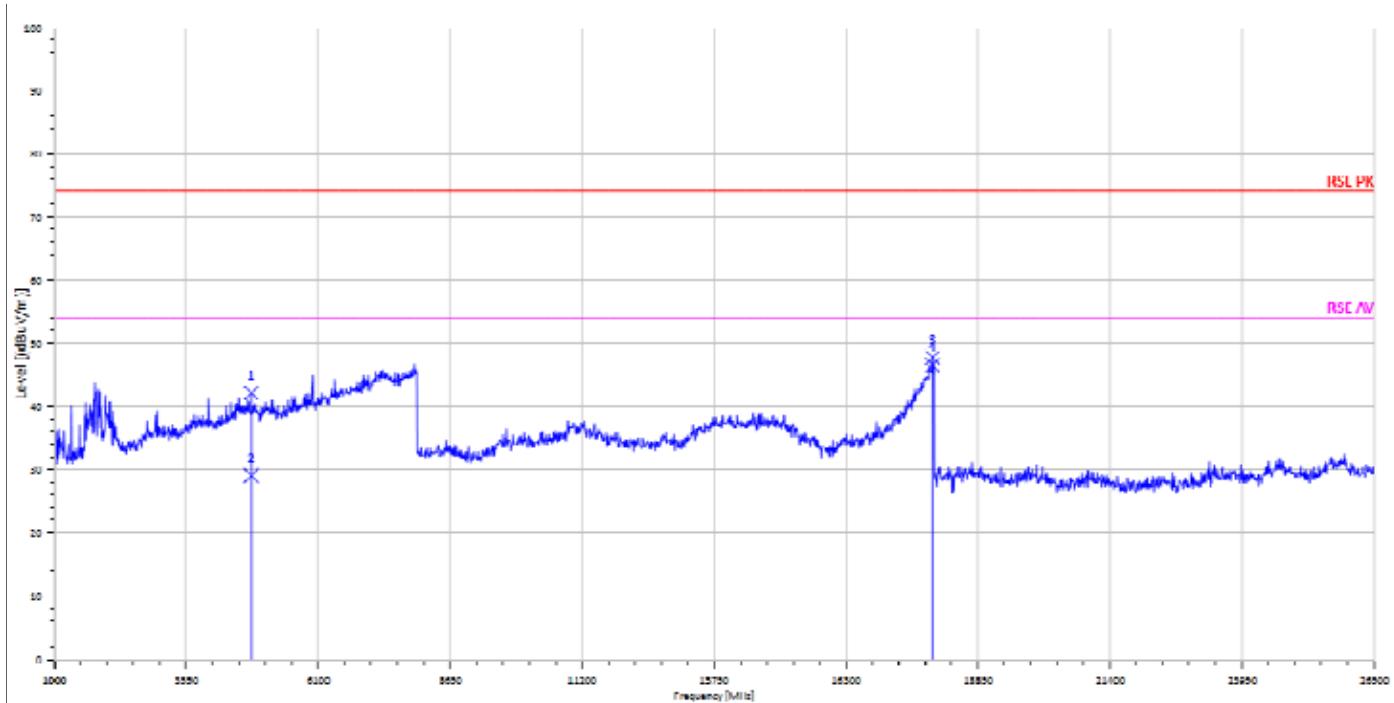
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**Radiated Spurious Emission Measurement Result
For Frequency above 1GHz**

Operation Mode : 2.4G Test Date : 2018/5/10
Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



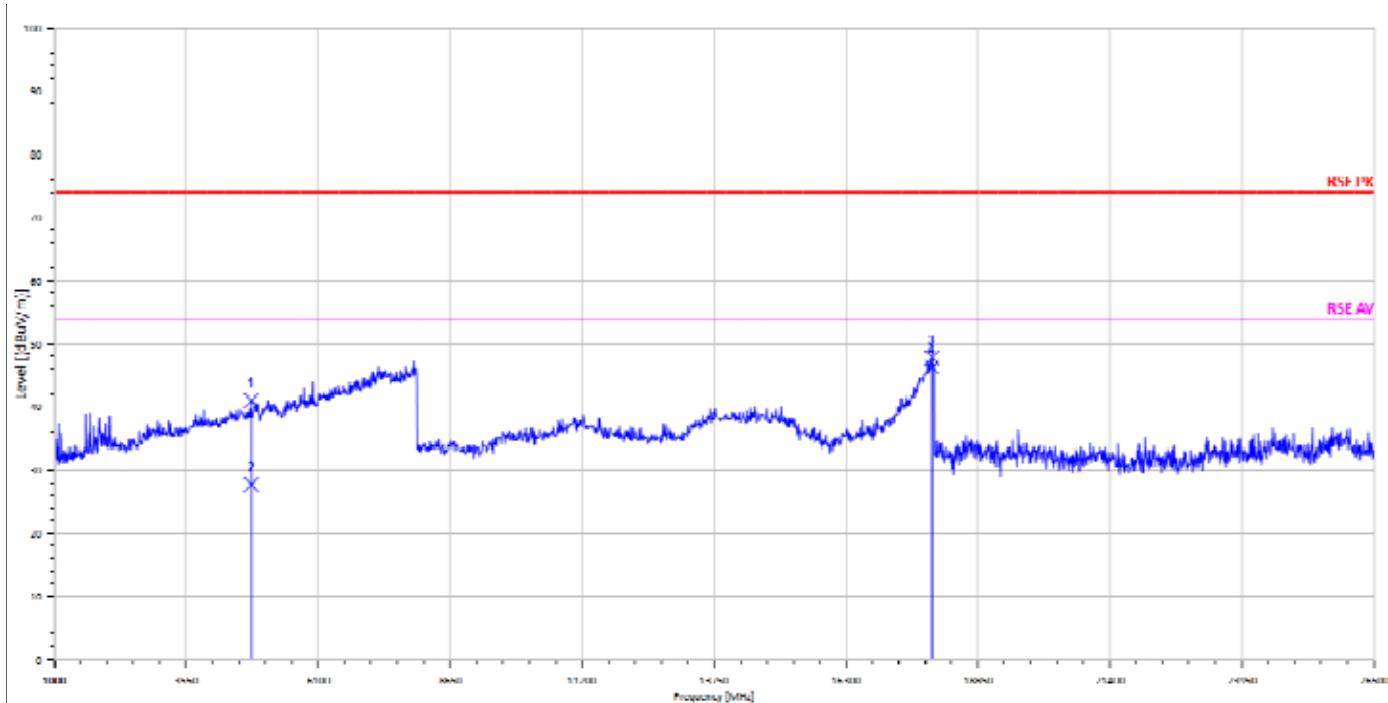
Freq. MHz	Note	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	H	Peak	43.27	-1.16	42.11	74	-31.89
4804.00	H	Average	30.20	-1.16	29.05	54	-24.95
17970.00	S	Peak	24.95	22.77	47.72	74	-26.28
17970.00	S	Average	23.73	22.77	46.50	54	-7.50

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Operation Mode : 2.4G Test Date : 2018/5/10
 Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



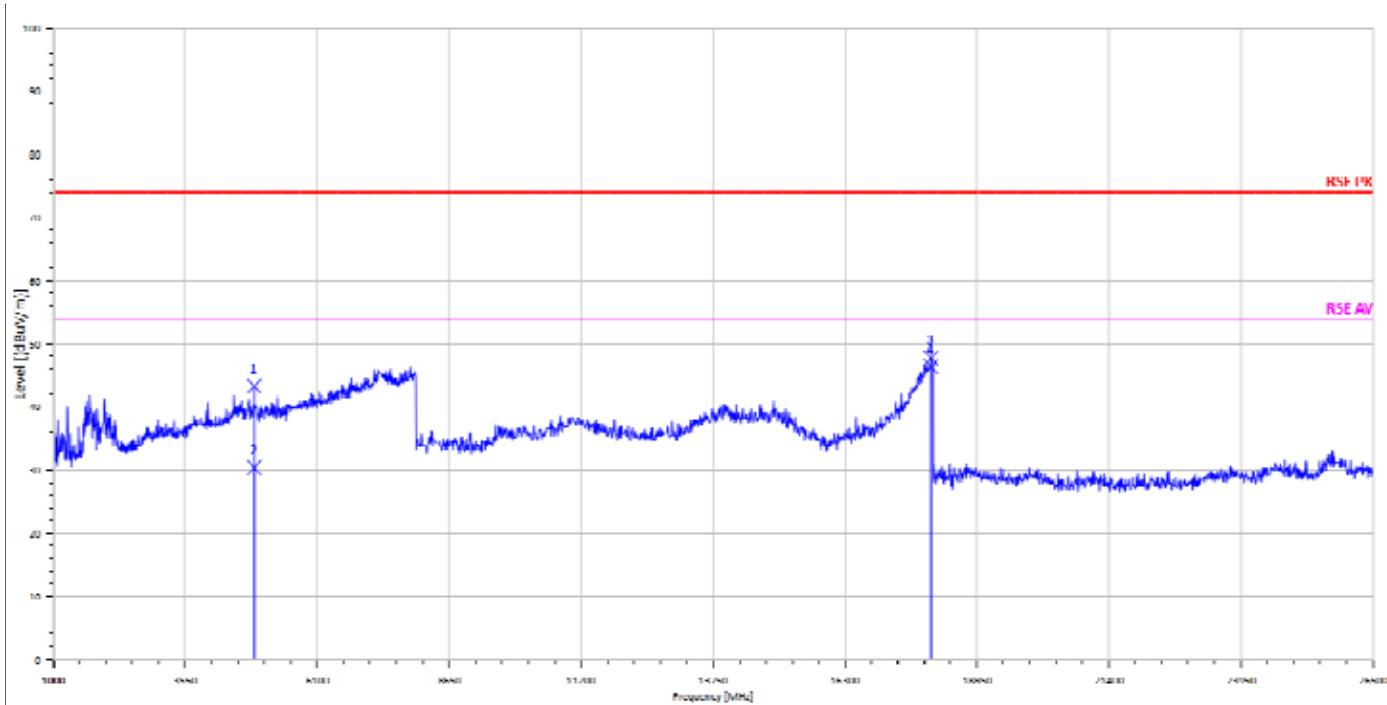
Freq. MHz	Note	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4804.00	H	Peak	42.11	-1.16	40.96	74	-33.04
4804.00	H	Average	28.86	-1.16	27.70	54	-26.30
17960.00	S	Peak	25.07	22.71	47.78	74	-26.22
17960.00	S	Average	23.52	22.71	46.24	54	-7.76

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Operation Mode : 2.4G Test Date : 2018/5/10
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



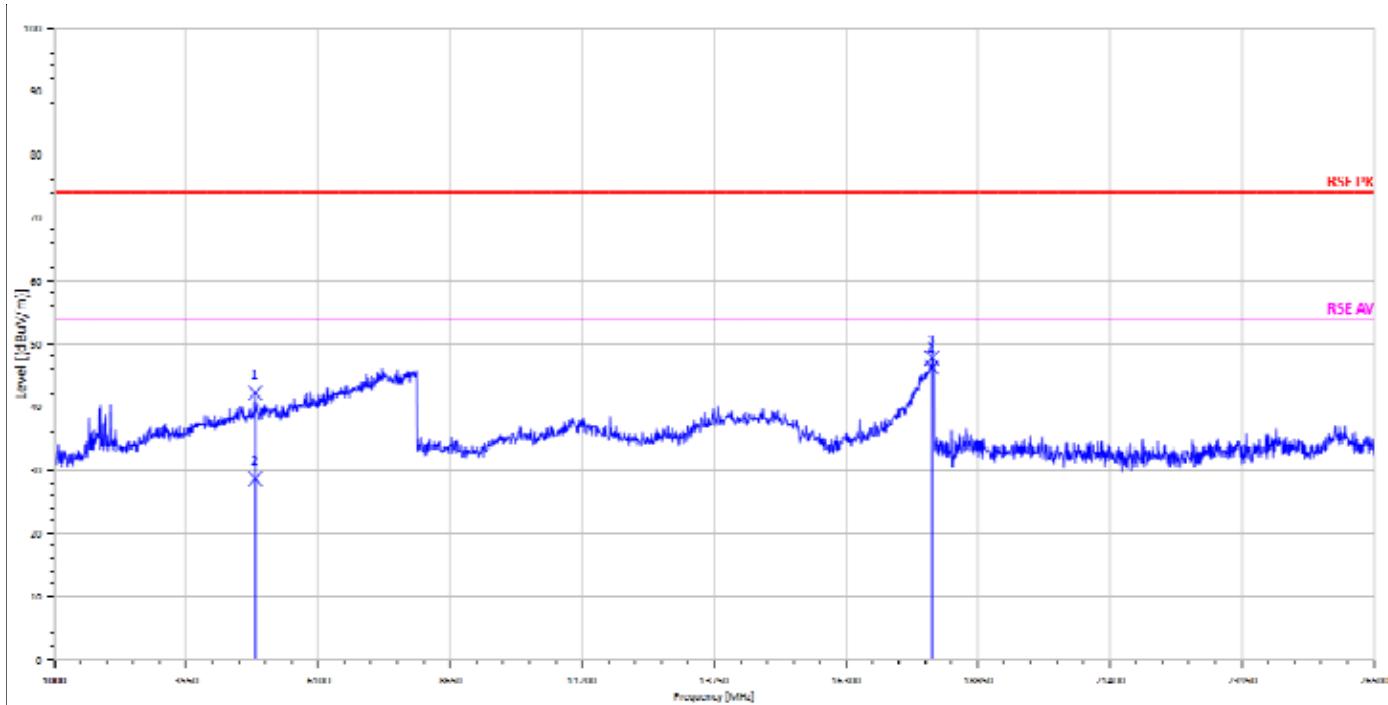
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4880.00	H	Peak	43.98	-0.71	43.26	74	-30.74
4880.00	H	Average	31.06	-0.71	30.35	54	-23.65
17960.00	S	Peak	24.96	22.71	47.67	74	-26.33
17960.00	S	Average	23.59	22.71	46.30	54	-7.70

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Operation Mode : 2.4G Test Date : 2018/5/10
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



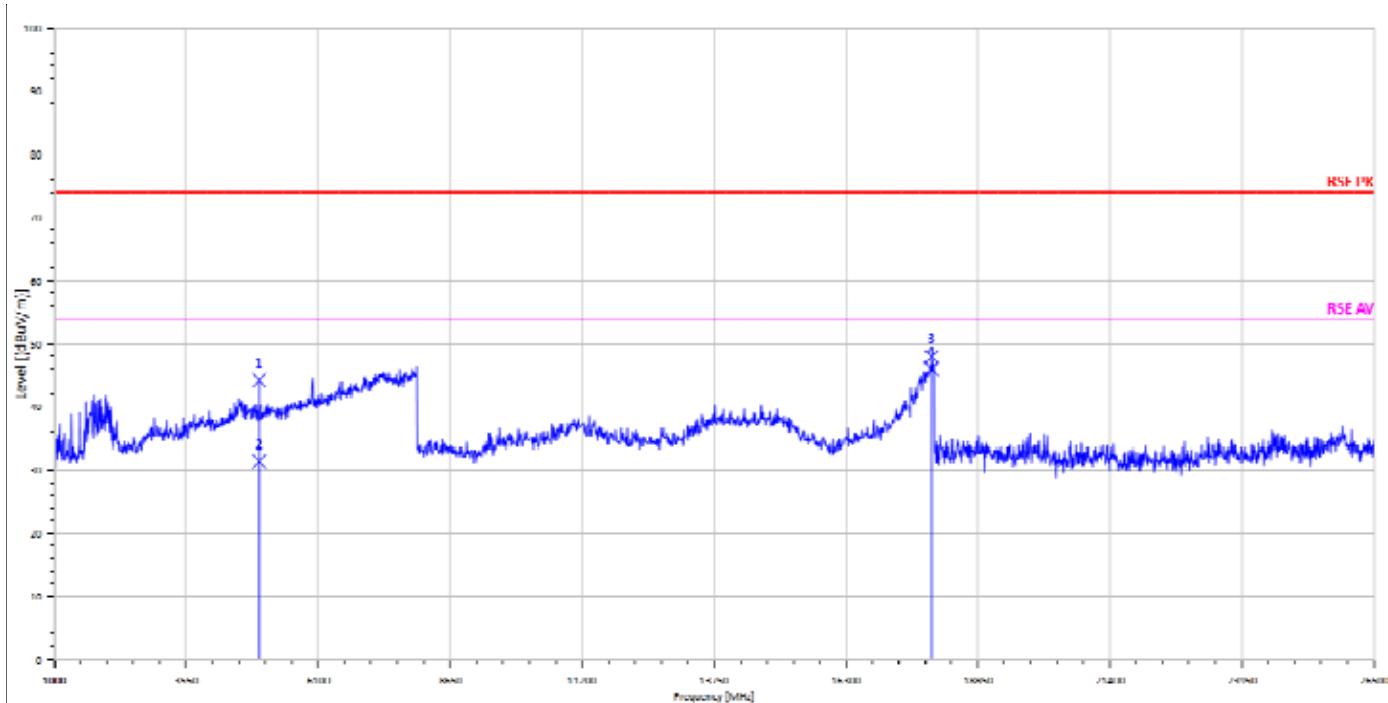
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4880.00	H	Peak	42.90	-0.71	42.19	74	-31.81
4880.00	H	Average	29.33	-0.71	28.62	54	-25.38
17960.00	S	Peak	25.02	22.71	47.74	74	-26.26
17960.00	S	Average	23.51	22.71	46.22	54	-7.78

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 Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



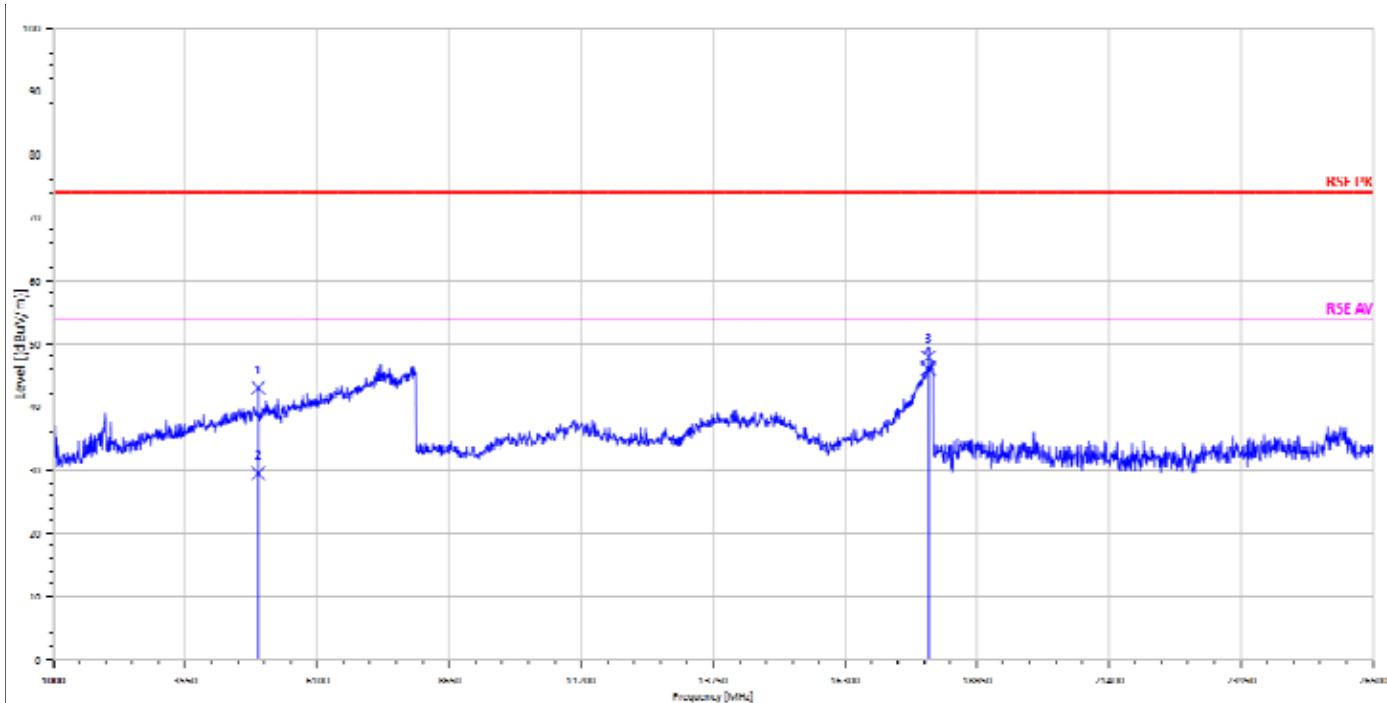
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4960.00	H	Peak	44.86	-0.66	44.20	74	-29.80
4960.00	H	Average	32.00	-0.66	31.34	54	-22.66
17950.00	S	Peak	25.26	22.65	47.92	74	-26.08
17950.00	S	Average	23.30	22.65	45.96	54	-8.04

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Operation Mode : 2.4G Test Date : 2018/5/10
 Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 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
4960.00	H	Peak	43.68	-0.66	43.02	74	-30.98
4960.00	H	Average	30.13	-0.66	29.47	54	-24.53
17910.00	S	Peak	25.42	22.42	47.84	74	-26.16
17910.00	S	Average	23.58	22.42	45.99	54	-8.01

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11 PEAK POWER SPECTRAL DENSITY

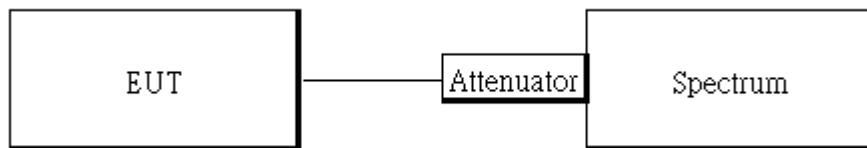
11.1 Standard Applicable:

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

11.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Notebook	Lenovo	T420	S0012599	N/A	N/A

11.3 Test Set-up:



11.4 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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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11.5 Measurement Result:

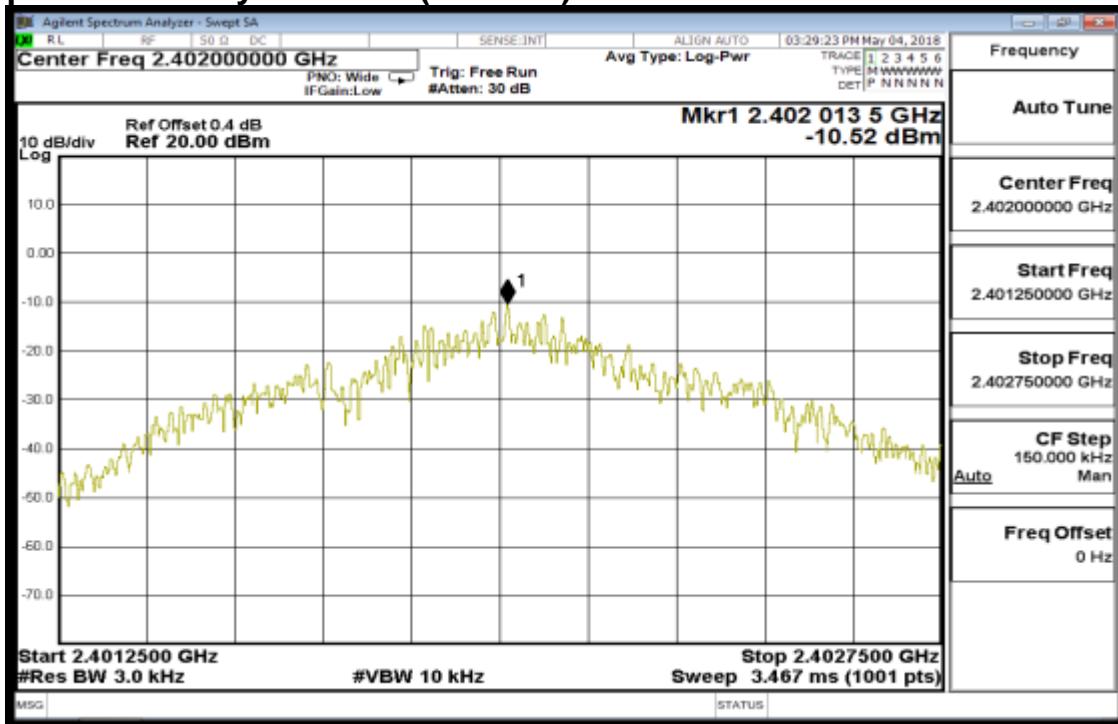
2.4G mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-10.52	8	PASS
2442	-10.30	8	PASS
2480	-9.53	8	PASS

NOTE: ca2.4G loss as 0.4dB that offsets in the spectrum

2.4G mode

Power Spectral Density Test Plot (CH-Low)

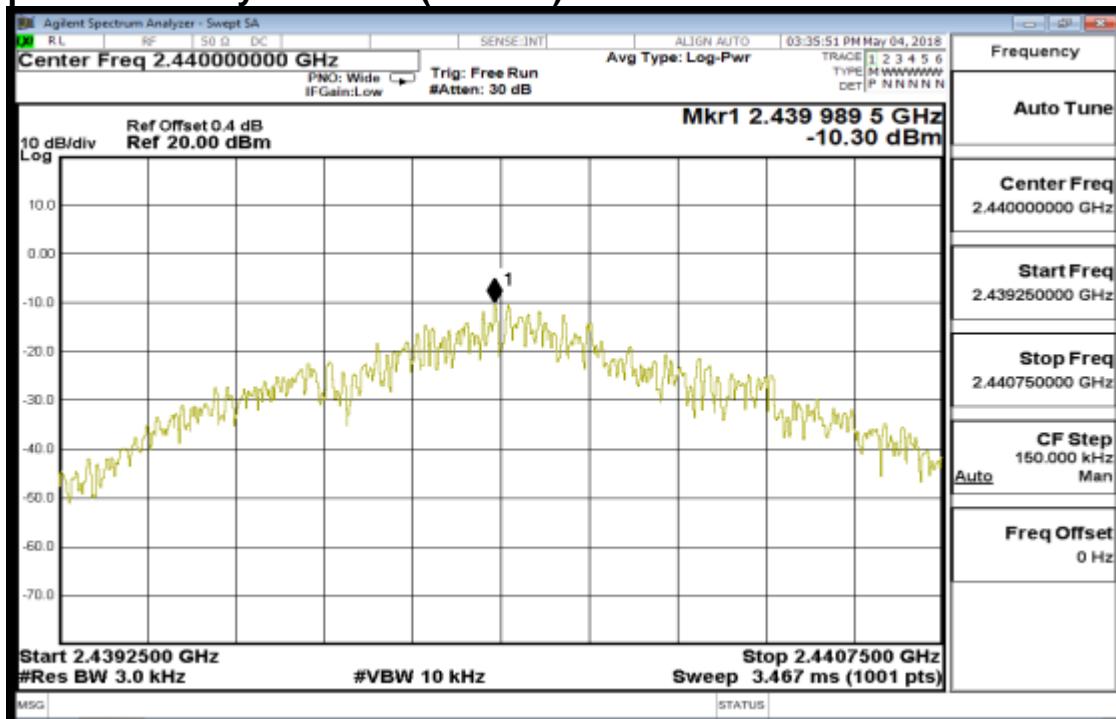


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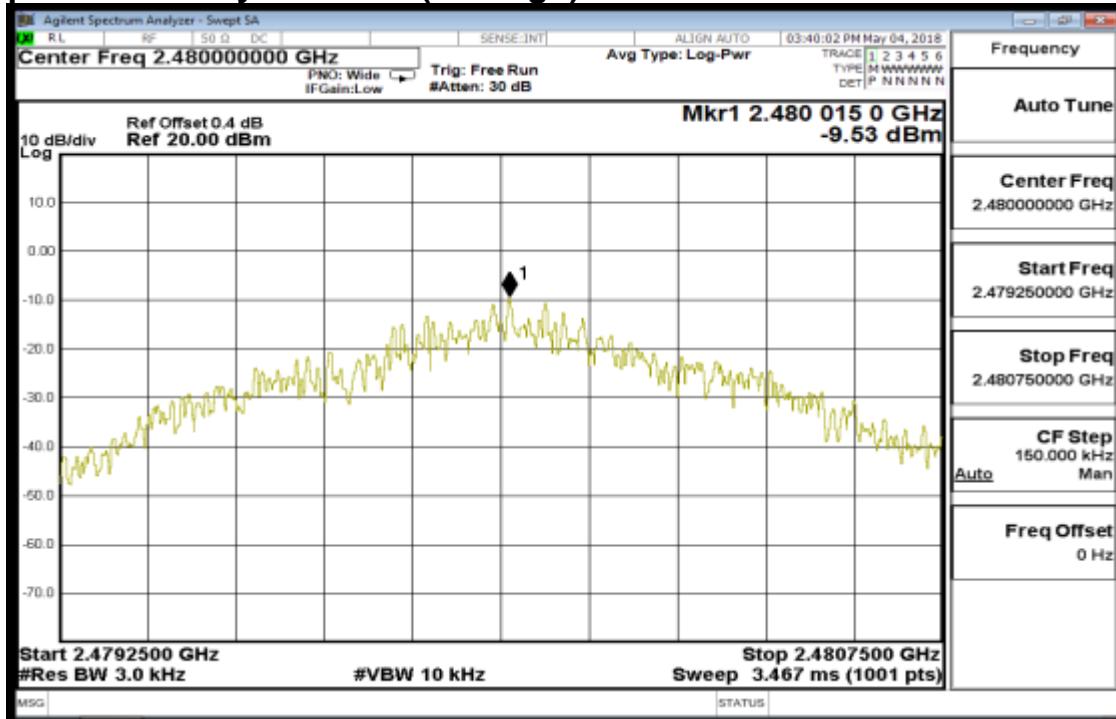
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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12 ANTENNA REQUIREMENT

12.1 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.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

12.2 Antenna Connected Construction:

An embedded-in antenna design is used.

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

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