

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: 2.4GHz Wireless Mouse
Brand Name: N/A
Model No.: B296
Model Difference: N/A
FCC ID: P5A-CB0022
Report No.: ER/2016/70068
Issue Date: Aug. 10, 2016
FCC Rule Part: §15.249
Prepared for: ARESON Technology Corp.
 11F, No.646, Sec.5, Chongxin Rd., SanChong
 Dist., New Taipei City 241,Taiwan(R.O.C.)
Prepared by: SGS Taiwan Ltd.
 Electronics & Communication Laboratory
 No.134, Wu Kung Road, New Taipei Industrial
 Park, Wuku District, New Taipei City, Taiwan
 24803



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VERIFICATION OF COMPLIANCE

Applicant: ARESON Technology Corp.
11F, No.646, Sec.5, Chongxin Rd., SanChong Dist., New Taipei City 241,Taiwan(R.O.C.)

Product Name: 2.4GHz Wireless Mouse

Brand Name: N/A

Model No.: B296

Model Difference: N/A

FCC ID: P5A-CB0022

File Number: ER/2016/70068

Date of test: Jun. 18, 2016 ~ Aug. 08, 2016

Date of EUT Received: Jun. 18, 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: Cooper Hsu **Date** Aug. 10, 2016

Cooper Hsu / Engineer

Prepared By: Allen Tsai **Date** Aug. 10, 2016

Allen Tsai / Engineer

Approved By: Jim Chang **Date** Aug. 10, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/70068	Rev.00	Initial creation of document	Aug. 10, 2016

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	2.4GHz Wireless Mouse
Brand Name:	N/A
Model No.:	B296
Model Difference:	N/A
Product SW/HW version:	N/A/ N/A
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	1.5Vdc from AAA Battery*2
Antenna Designation:	PCB Antenna Gain: -2.71 dBi

2.4GHz

Transmit Power	103.91dBuV/m (Peak)
Operation Frequency:	2408~ 2474MHz
Channel number:	34 channels
Channel space:	2MHz
Modulation Type:	GFSK

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249

ANSI C63.10:2013

Note:

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

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803. (TAF code 0513)

FCC Registration Numbers are: 509634

Canada Registration Number: 4260A-5.

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 a placed on as turn table which is 0.8 m above ground plane. 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 a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. 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.

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2.5 Limitation

(1) Conducted Emission

Conducted Emission Limits is as following.

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 - 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) Radiated Emission

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 – 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
24.0 – 24.25 GHz	250 mV/m (107.95dBuV/m)	2500 uV/m (67.95dBuV/m)	3

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(3) Radiated Emission

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits as below, whichever is the lesser attenuation.

Frequency (MHz)	Field strength $\mu\text{V}/\text{m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V}/\text{m}$
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

(4) Radiated Emission

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

- Re- mark:
1. Emission level in $\text{dB}\mu\text{V}/\text{m}=20 \log (\mu\text{V}/\text{m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205 and RSS-Gen ξ 8.10
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ 15.205 and RSS-Gen ξ 8.10, then the general radiated emission limits in ξ 15.209 and RSS-Gen ξ 8.9 apply.

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2.6 Configuration of Tested System

Fig. 2-1 Radiated Emission & 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.	2.4GHz Wireless Test Software	N/A	N/A	N/A	N/A	N/A

3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.249(a)(d)(e)	Radiated Emission	Compliant
§15.215(c)	20dB bandwidth Measurement	Compliant

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2408 ~ 2474MHz Band

34 channels are provided.

CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
1	2408	10	2426	19	2444	28	2462
2	2410	11	2428	20	2446	29	2464
3	2412	12	2430	21	2448	30	2466
4	2414	13	2432	22	2450	31	2468
5	2416	14	2434	23	2452	32	2470
6	2418	15	2436	24	2454	33	2472
7	2420	16	2438	25	2456	34	2474
8	2422	17	2440	26	2458		
9	2424	18	2442	27	2460		

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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:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
2.4G	1 to 34	1,17,34	GFSK	2	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
2.4G	1 to 34	1,17,34	GFSK	2	MAIN

Note:

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

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
2.4G	1 to 34	1,17,34	GFSK	2	MAIN

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
20dB & 99% Bandwidth	+/- 51.33 Hz
100 kHz Bandwidth Of Frequency Band Edges	+/- 0.84 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

- The lower limit shall apply at the transition frequencies
- 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.
EMI Test Receiver	R&S	ESC17	100760	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/2 50-25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016

6.3 EUT Setup:

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

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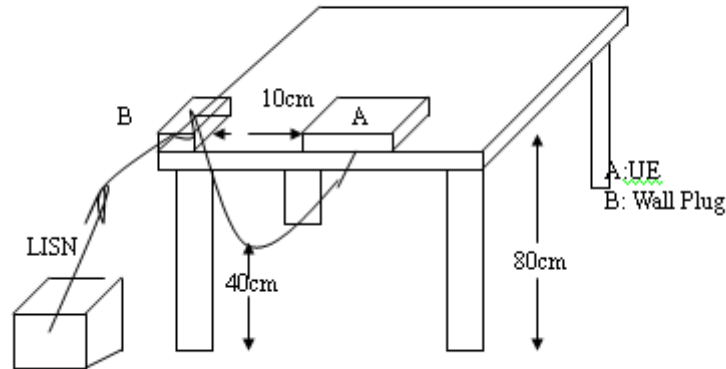
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
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:

N/A, This device is powered by battery.

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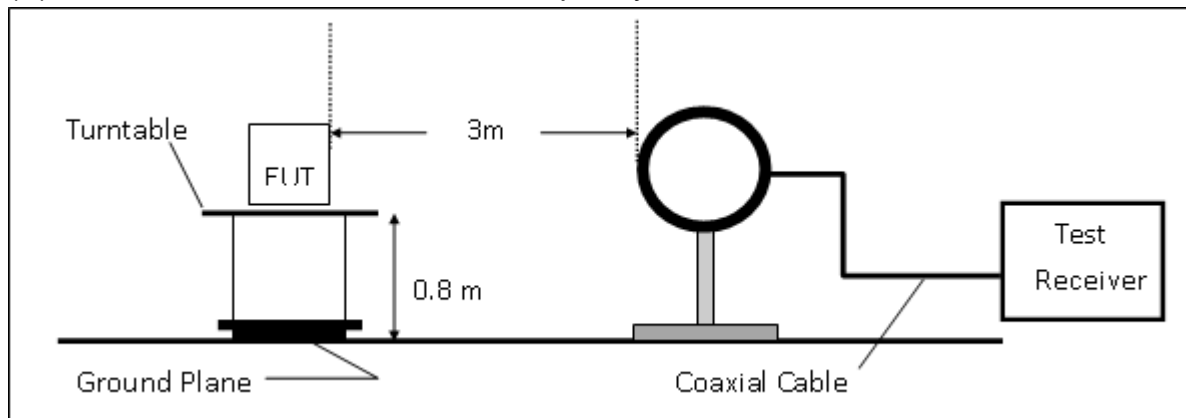
7 Radiated Emission Test

7.1. Measurement Procedure

1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

7.2. Test SET-UP (Block Diagram of Configuration)

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



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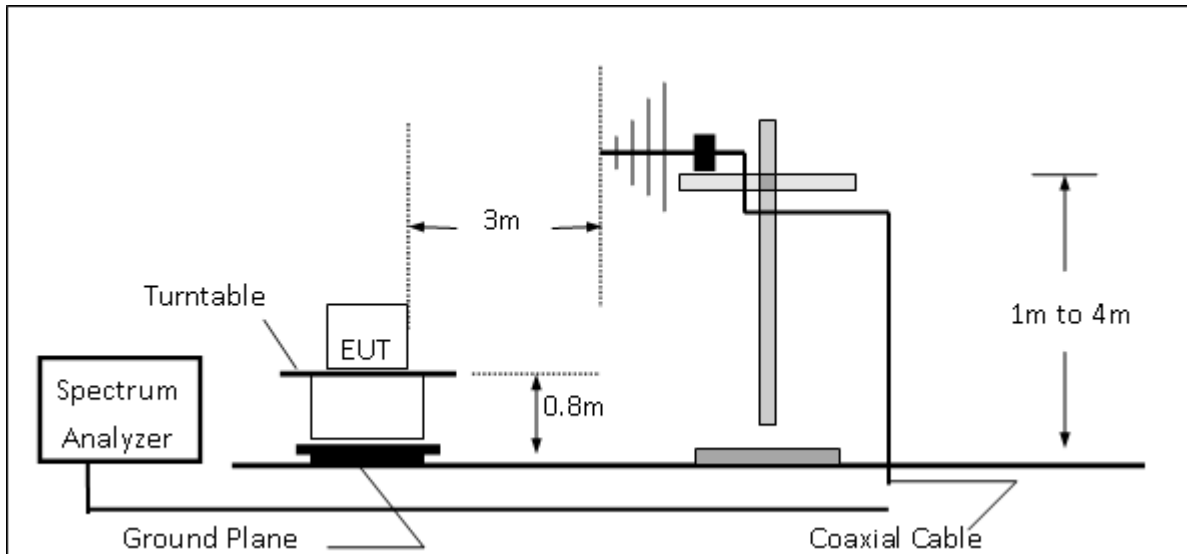
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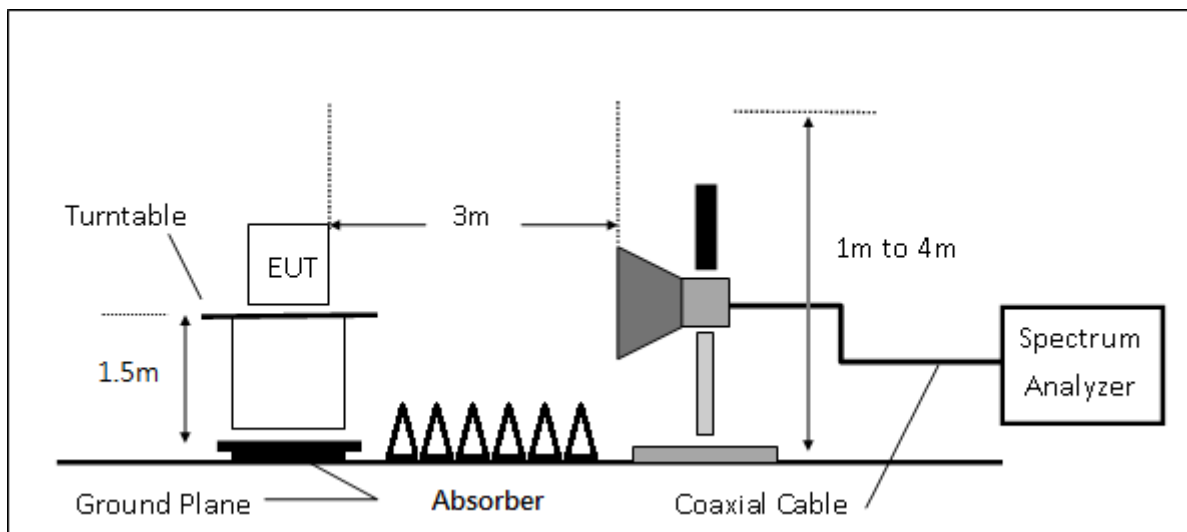
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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



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



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7.3. Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/10/2015	08/09/2016
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

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

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7.4. 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(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.

7.5. Measurement Result

Radiated Spurious Emission Measurement Result (MAIN)

Operation Mode :	2.4G	Test Date :	07/20/2016 19:46:49
Fundamental Frequency :	2408 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Main CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
2407.54	F	Peak	89.60	91.35	-1.76	114.00	-24.40

Operation Mode :	2.4G	Test Date :	07/20/2016 19:56:12
Fundamental Frequency :	2408 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Main CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
2407.49	F	Peak	94.65	96.41	-1.76	114.00	-19.35

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Operation Mode : 2.4G Test Date : 07/20/2016 20:00:29
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Main CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
2439.45	F	Peak	87.25	88.92	-1.67	114.00	-26.75

Operation Mode : 2.4G Test Date : 07/20/2016 20:04:38
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Main CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
2439.52	F	Peak	103.91	105.58	-1.67	114.00	-10.09

Operation Mode : 2.4G Test Date : 07/20/2016 20:14:33
 Fundamental Frequency : 2474 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Main CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
2473.54	F	Peak	86.49	88.11	-1.62	114.00	-27.51

Operation Mode : 2.4G Test Date : 07/20/2016 20:24:21
 Fundamental Frequency : 2474 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Main CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
2473.50	F	Peak	93.55	95.17	-1.62	114.00	-20.45

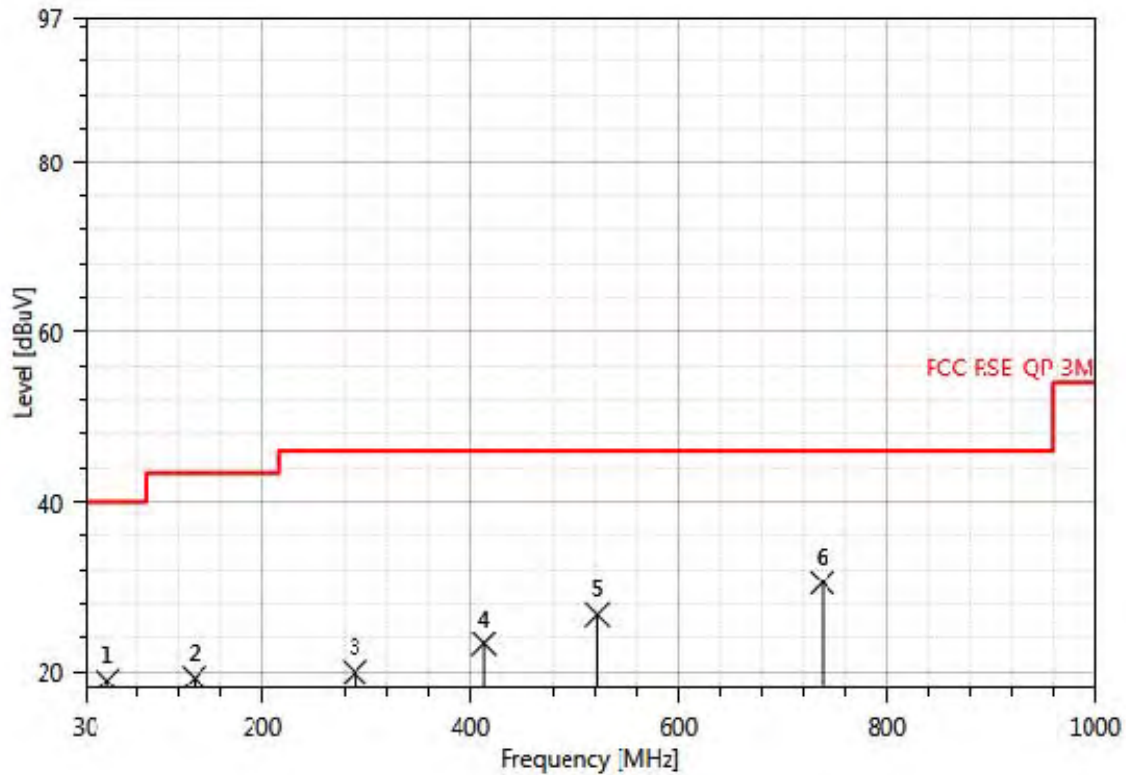
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Radiated Spurious Emission Measurement Result

Operation Mode :	2.4G	Test Date :	07/20/2016 22:51:17
Fundamental Frequency :	2408 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
51.34	S	Peak	18.97	26.71	-7.74	40.00	-21.03
134.76	S	Peak	19.28	28.12	-8.84	43.50	-24.22
288.99	S	Peak	19.95	26.03	-6.08	46.00	-26.05
413.15	S	Peak	23.29	26.67	-3.39	46.00	-22.71
521.79	S	Peak	26.76	28.36	-1.60	46.00	-19.24
738.10	S	Peak	30.50	28.60	1.89	46.00	-15.50

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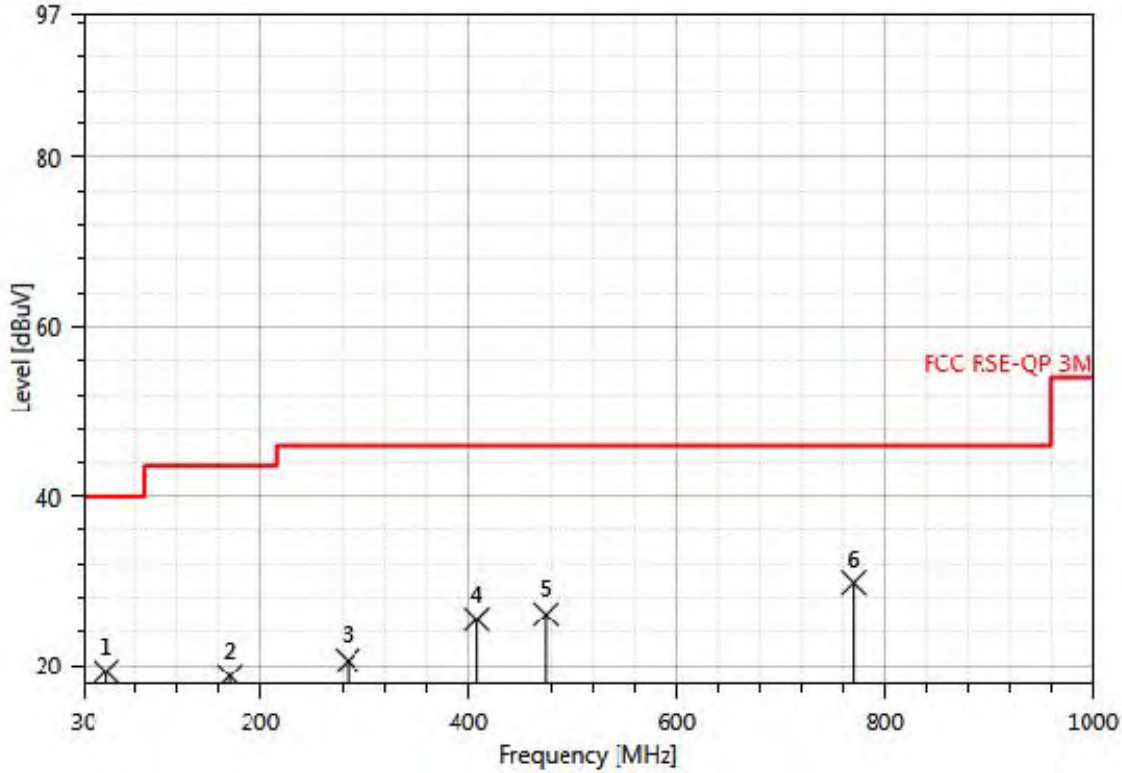
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Operation Mode :	2.4G	Test Date :	07/20/2016 22:51:18
Fundamental Frequency :	2408 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



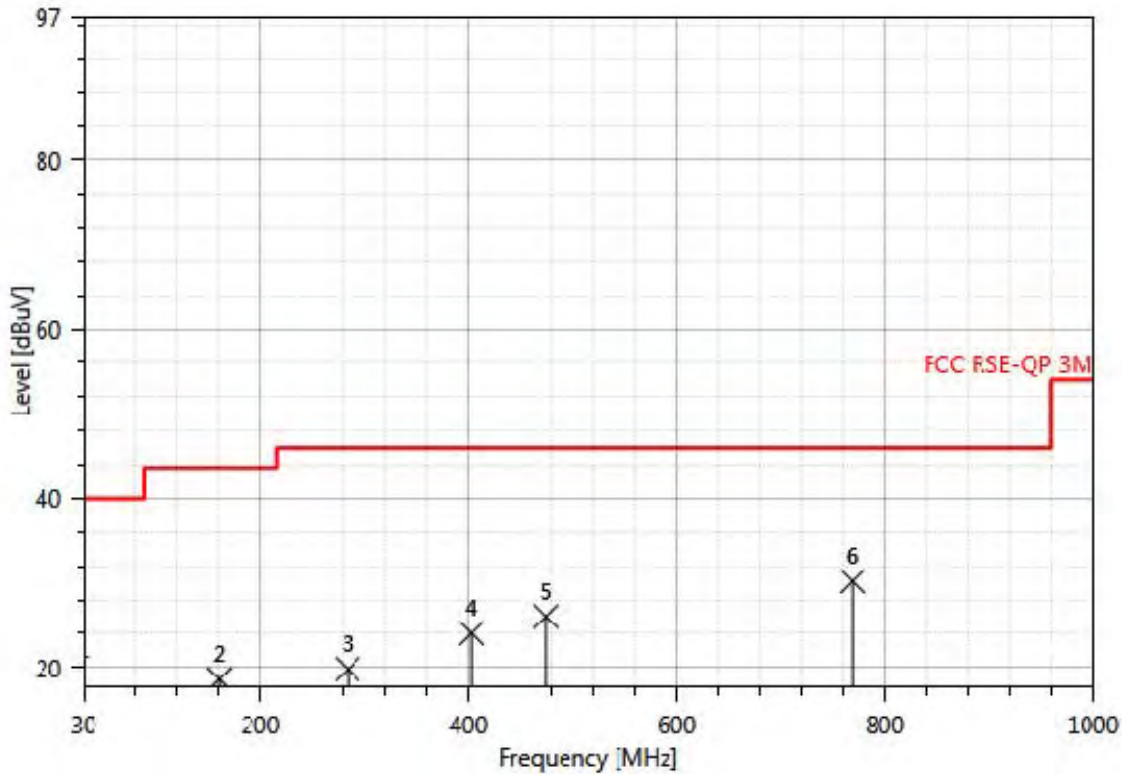
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
52.31	S	Peak	19.29	27.05	-7.77	40.00	-20.71
170.65	S	Peak	18.74	26.40	-7.66	43.50	-24.76
284.14	S	Peak	20.57	26.80	-6.23	46.00	-25.43
408.30	S	Peak	25.46	28.99	-3.53	46.00	-20.54
474.26	S	Peak	26.04	28.52	-2.48	46.00	-19.96
770.11	S	Peak	29.71	27.03	2.69	46.00	-16.29

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Operation Mode : 2.4G Test Date : 07/20/2016 22:51:19
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
30.00	S	Peak	19.20	28.39	-9.19	40.00	-20.80
160.95	S	Peak	18.61	26.04	-7.44	43.50	-24.89
284.14	S	Peak	19.82	26.05	-6.23	46.00	-26.18
403.45	S	Peak	24.05	27.98	-3.92	46.00	-21.95
474.26	S	Peak	26.04	28.53	-2.48	46.00	-19.96
769.14	S	Peak	30.18	27.42	2.77	46.00	-15.82

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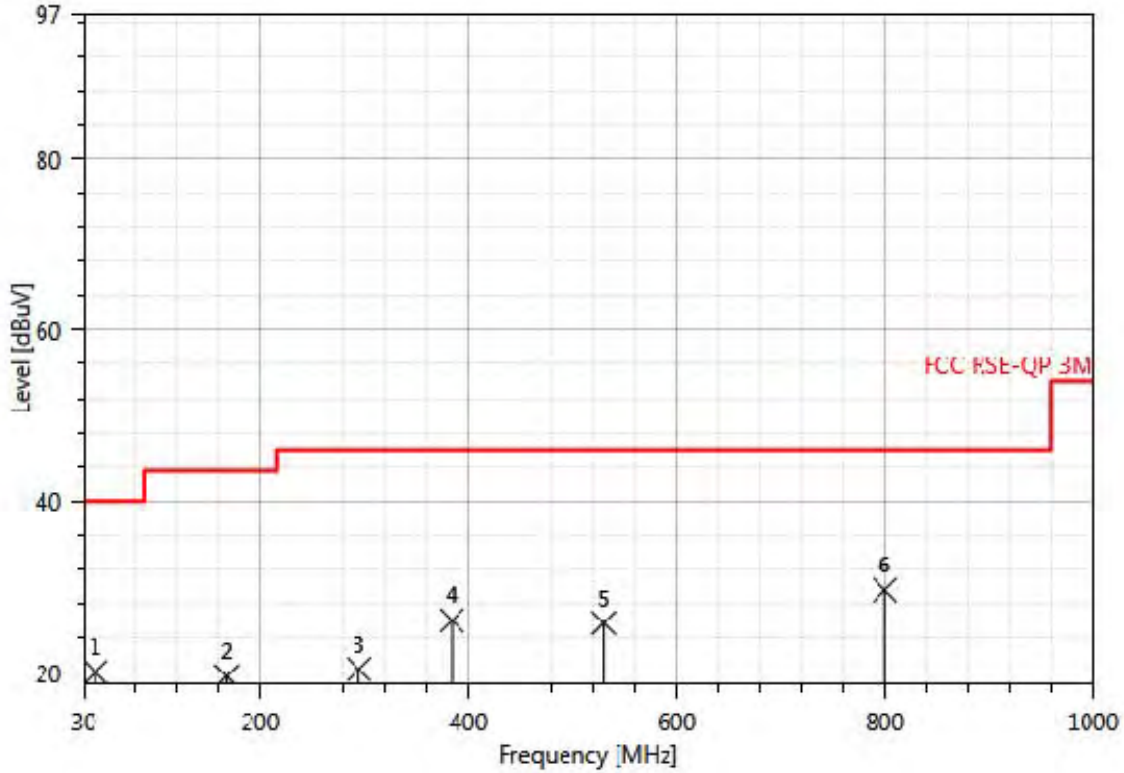
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Operation Mode : 2.4G Test Date : 07/20/2016 22:51:20
 Fundamental Frequency : 2440 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
41.64	S	Peak	19.98	28.36	-8.38	40.00	-20.02
167.74	S	Peak	19.51	26.97	-7.46	43.50	-23.99
294.81	S	Peak	20.34	26.36	-6.02	46.00	-25.66
384.05	S	Peak	26.04	30.39	-4.35	46.00	-19.96
529.55	S	Peak	25.72	26.97	-1.25	46.00	-20.28
800.18	S	Peak	29.57	26.45	3.12	46.00	-16.43

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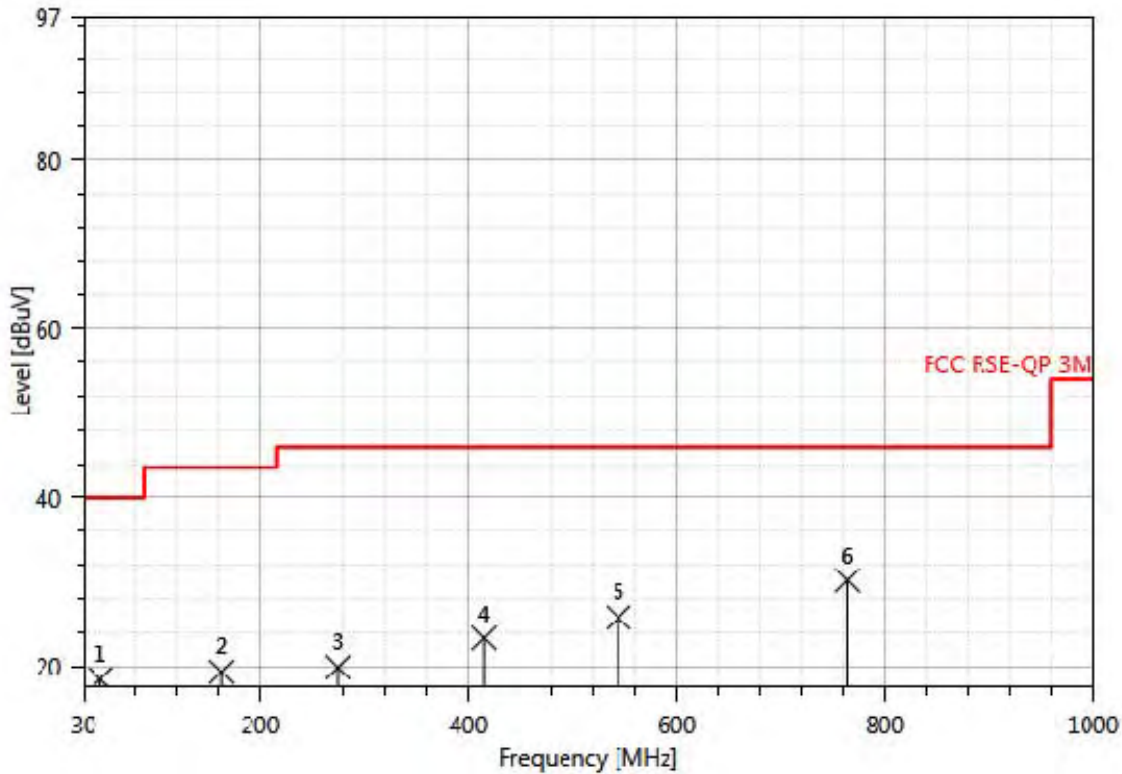
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Operation Mode : 2.4G Test Date : 07/20/2016 22:51:21
 Fundamental Frequency : 2474 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
46.49	S	Peak	18.46	26.37	-7.91	40.00	-21.54
162.89	S	Peak	19.33	26.81	-7.48	43.50	-24.17
274.44	S	Peak	19.88	26.55	-6.67	46.00	-26.12
415.09	S	Peak	23.33	26.54	-3.21	46.00	-22.67
544.10	S	Peak	25.79	27.39	-1.60	46.00	-20.21
764.29	S	Peak	30.17	27.20	2.97	46.00	-15.83

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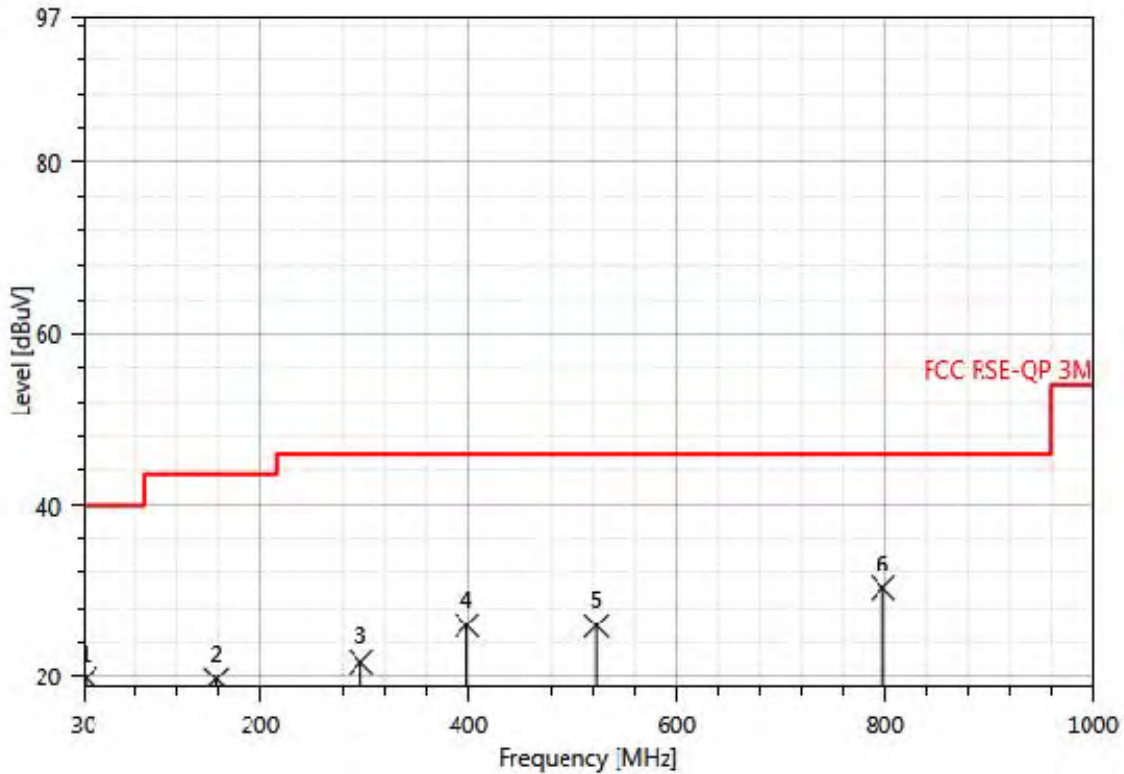
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Operation Mode : 2.4G Test Date : 07/20/2016 22:51:22
 Fundamental Frequency : 2474 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
31.94	S	Peak	19.77	28.88	-9.11	40.00	-20.23
158.04	S	Peak	19.66	27.11	-7.45	43.50	-23.84
296.75	S	Peak	21.70	27.68	-5.98	46.00	-24.30
398.60	S	Peak	25.96	29.93	-3.97	46.00	-20.04
522.76	S	Peak	25.90	27.55	-1.66	46.00	-20.10
798.24	S	Peak	30.29	27.18	3.11	46.00	-15.71

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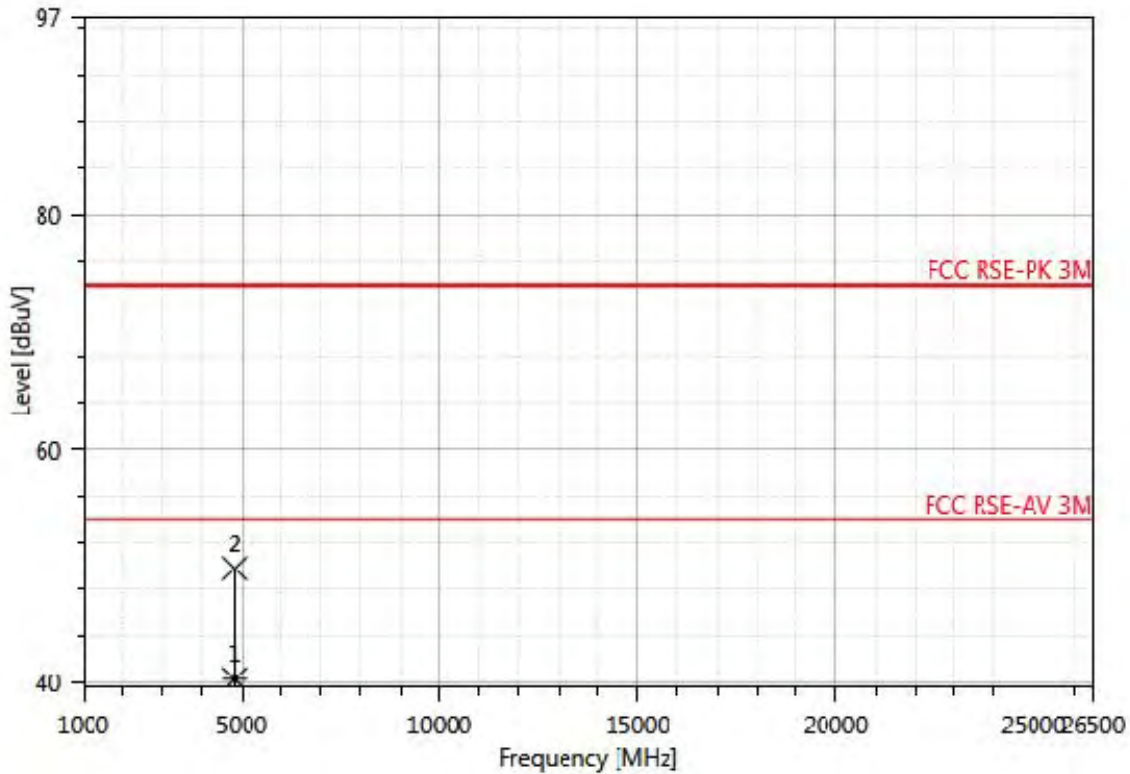
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Operation Mode :	2.4G	Test Date :	07/20/2016 20:34:53
Fundamental Frequency :	2408 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
4816.00	H	Average	40.28	35.35	4.93	54.00	-13.72
4816.00	H	Peak	49.77	44.83	4.93	74.00	-24.23

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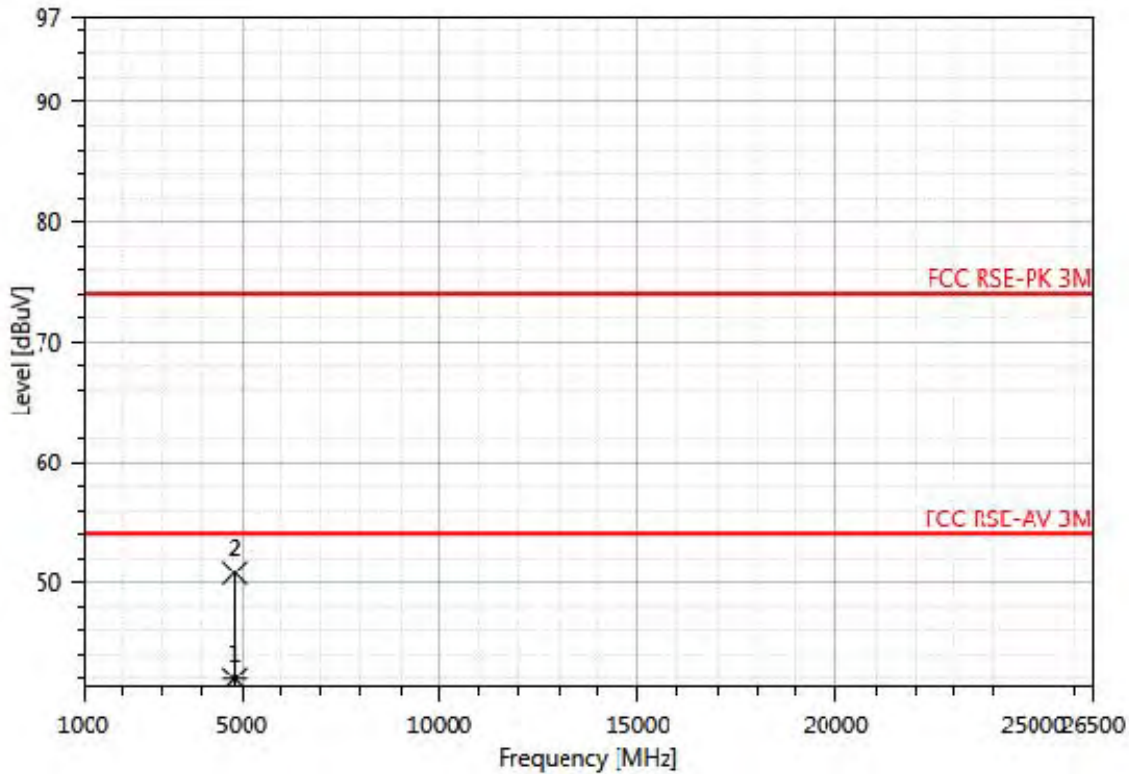
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Operation Mode :	2.4G	Test Date :	07/20/2016 20:37:41
Fundamental Frequency :	2408 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4816.00	H	Average	41.93	37.00	4.93	54.00	-12.07
4816.00	H	Peak	50.78	45.84	4.93	74.00	-23.22

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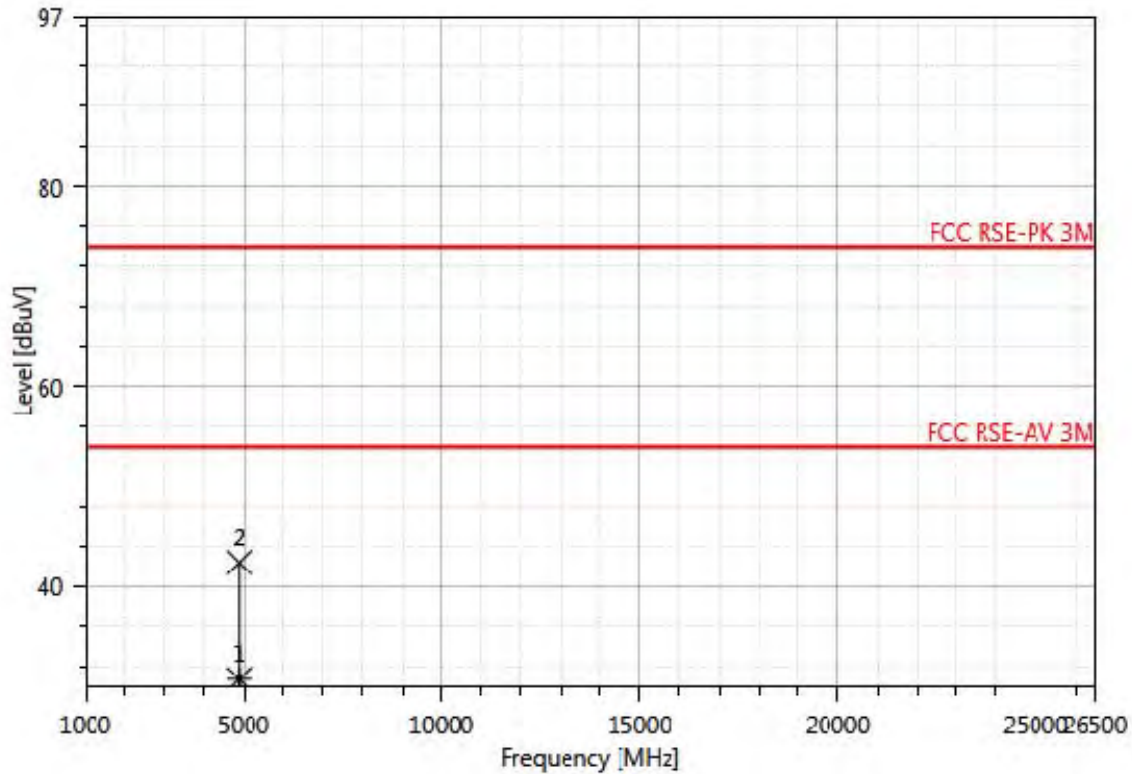
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Operation Mode :	2.4G	Test Date :	07/20/2016 20:41:14
Fundamental Frequency :	2440 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4880.00	H	Average	30.72	25.55	5.17	54.00	-23.28
4880.00	H	Peak	42.40	37.23	5.17	74.00	-31.60

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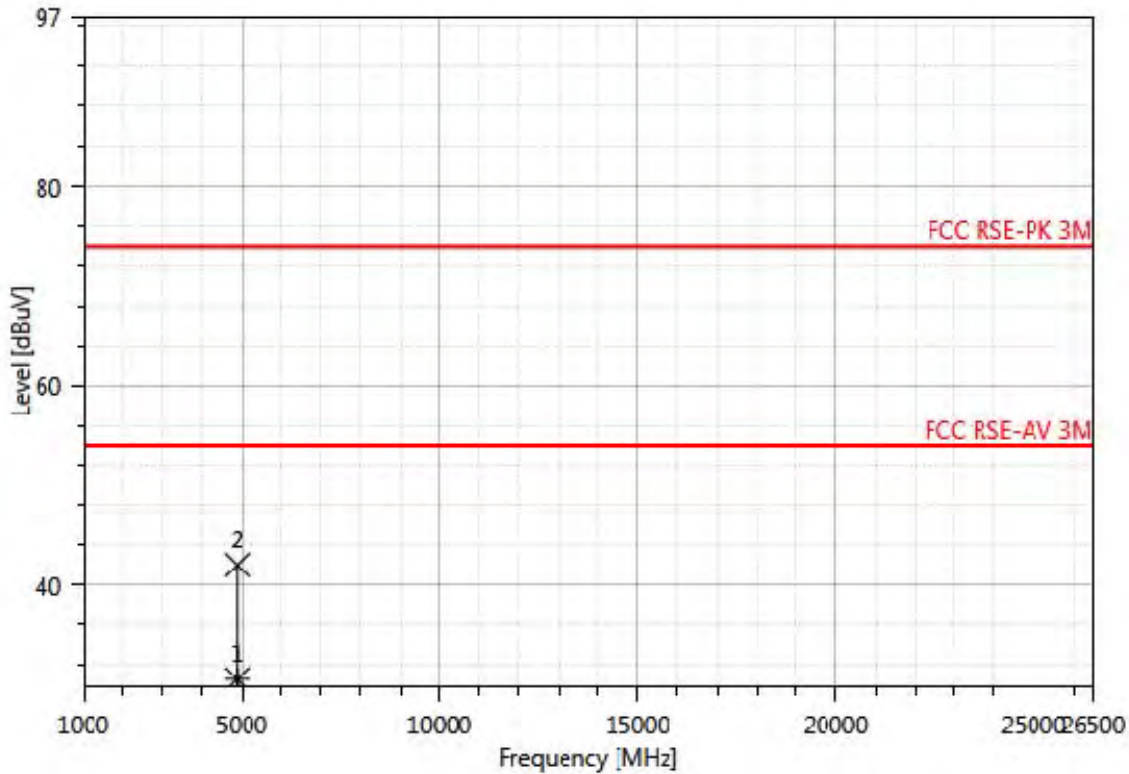
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Operation Mode :	2.4G	Test Date :	07/19/2016 23:03:52
Fundamental Frequency :	2440 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4880.00	H	Average	30.54	25.37	5.17	54.00	-23.46
4880.00	H	Peak	42.01	36.84	5.17	74.00	-31.99

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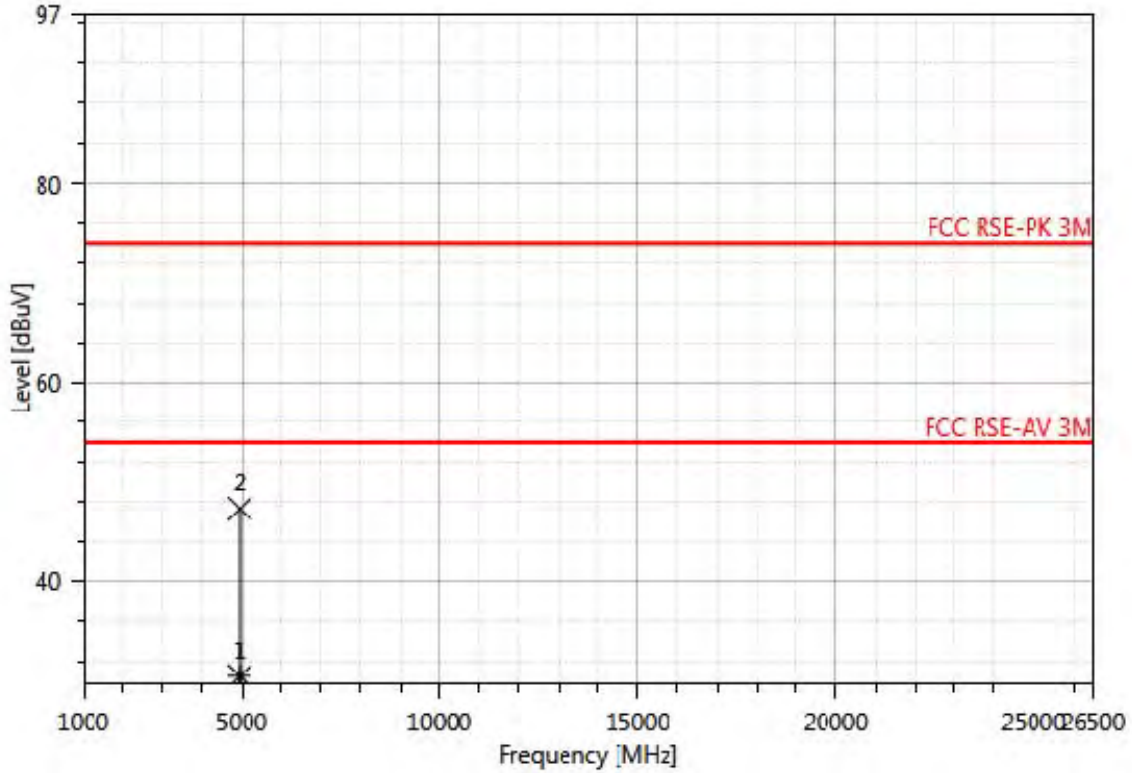
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 Fundamental Frequency : 2474 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4948.00	H	Average	30.52	25.24	5.28	54.00	-23.48
4948.00	H	Peak	47.34	42.06	5.28	74.00	-26.66

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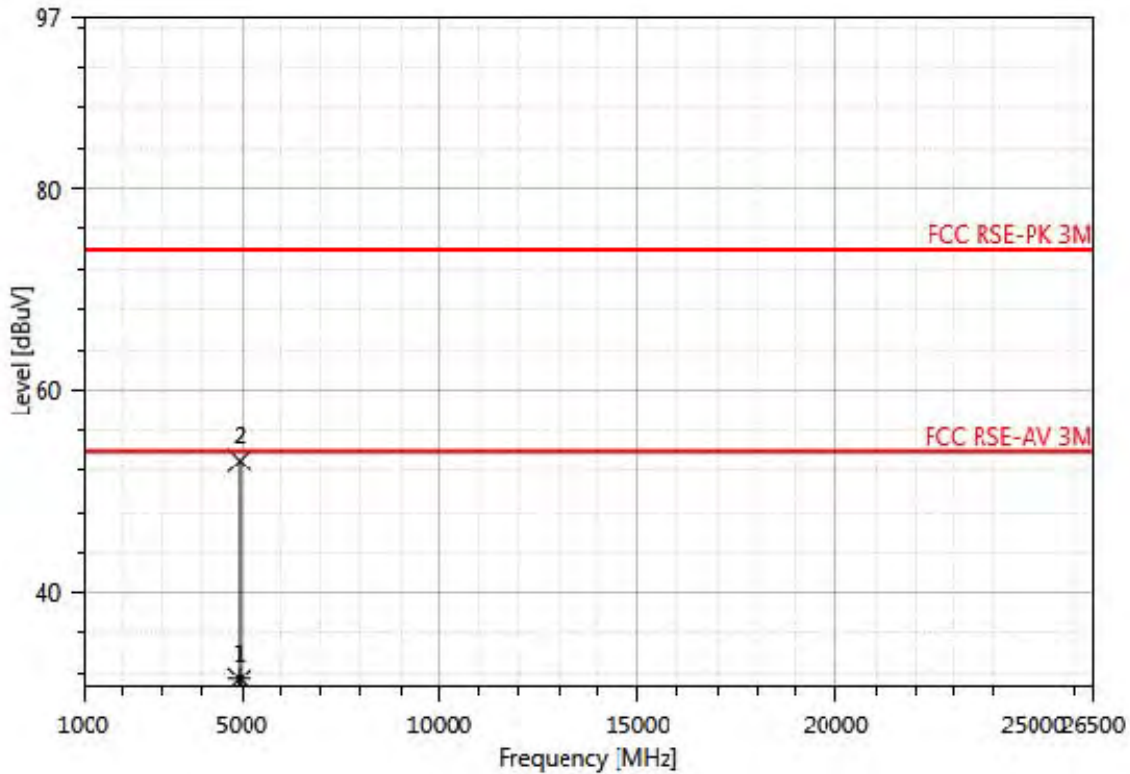
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Operation Mode :	2.4G	Test Date :	07/20/2016 22:53:22
Fundamental Frequency :	2474 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4948.00	H	Average	31.40	26.12	5.28	54.00	-22.60
4948.00	H	Peak	53.05	47.77	5.28	74.00	-20.95

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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8 20 dB Bandwidth Measurement

8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 5MHz.
4. Set SPA Max hold. Mark peak, -20dB.

8.2 Test SET-UP (Block Diagram of Configuration)

Refer to section 7.2 for the plot.

8.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016

8.4 Measurement Results:

	Frequency (MHz)	20dB Bandwidth (kHz)
CH Low	2408	2246
CH Mid	2440	2239
CH High	2474	2242

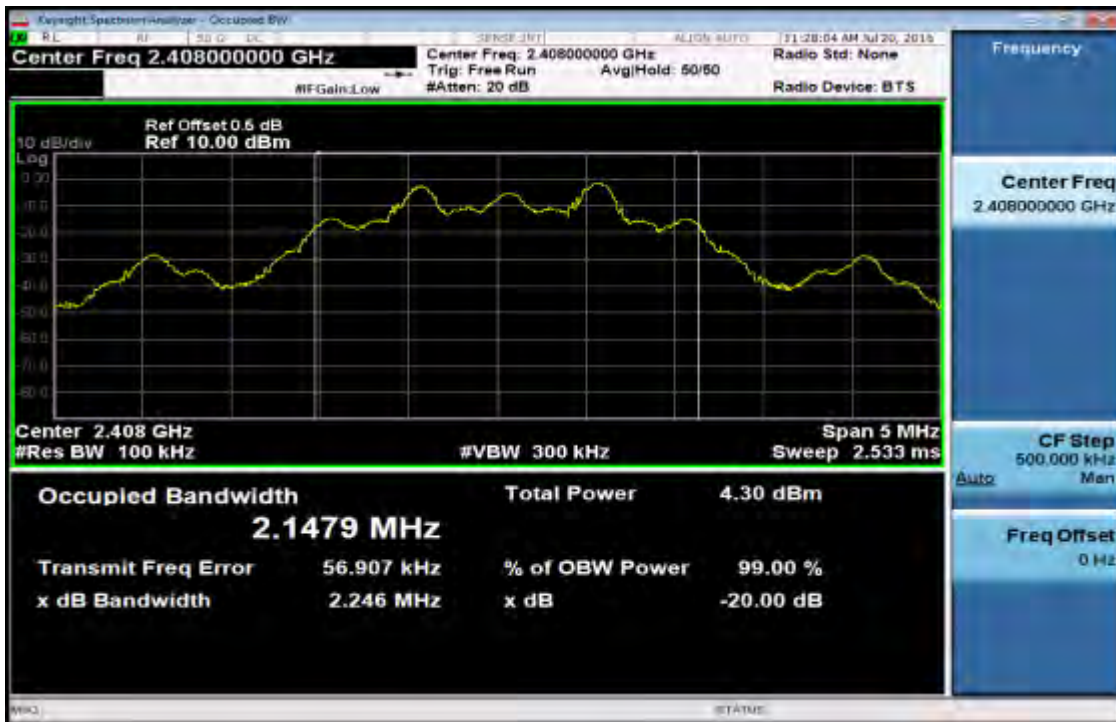
Refer to attached data chart.

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.

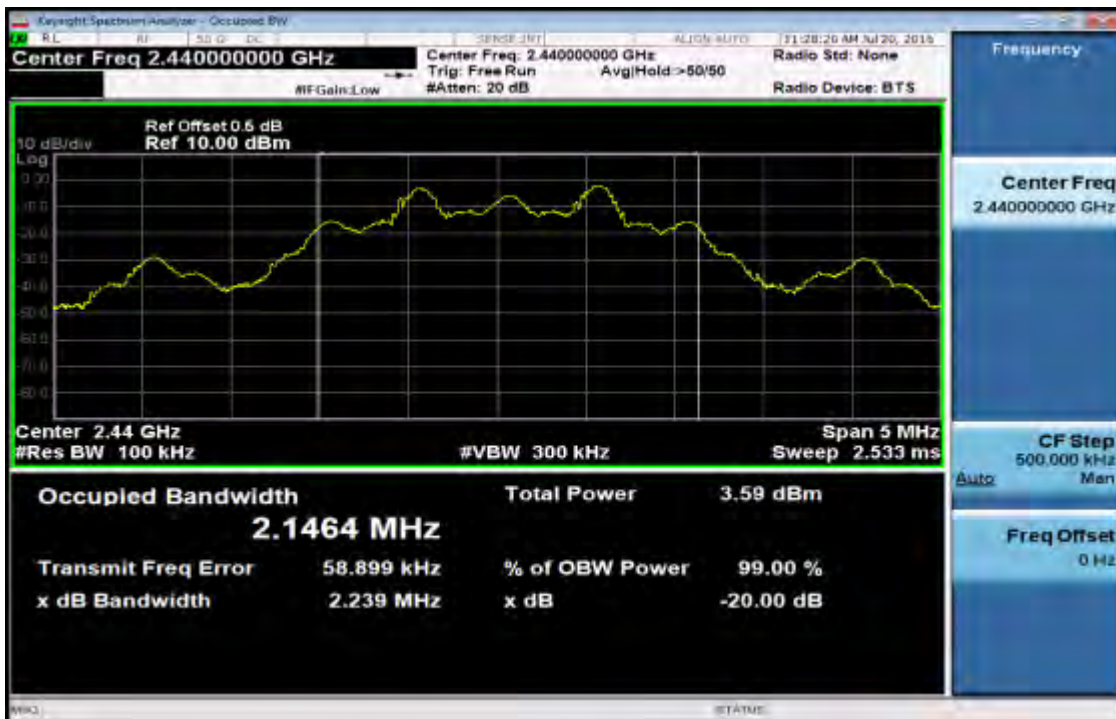
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CH Low 2408MHz



CH Mid 2440MHz



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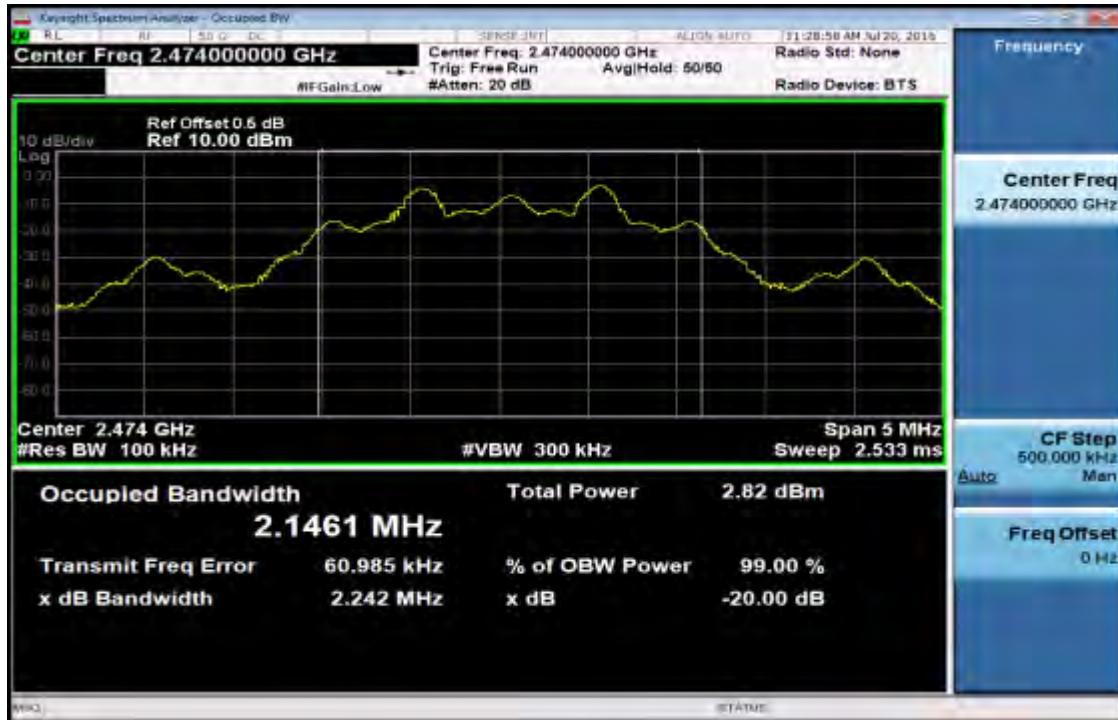
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CH High 2474MHz



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9 Antenna Requirement

9.1 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.

9.2 Antenna Connected Construction:

embedded-in antenna design is used.

The antenna is designed as permanently attached 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.

~ End of Report ~

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