


Prüfbericht-Nr.: <i>Test Report No.:</i>	50072028 001	Auftrags-Nr.: <i>Order No.:</i>	154213766	Seite 1 von 29 <i>Page 1 of 29</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	615487	Auftragsdatum: <i>Order date:</i>	12.02.2016		
Auftraggeber: <i>Client:</i>	ALE International 32 avenue Kléber – 92700 Colombes - France				
Prüfgegenstand: <i>Test item:</i>	BTDB02				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	BTBD02 FCC ID: OL3BTMOD02 IC: 1737D-BTMOD02				
Auftrags-Inhalt: <i>Order content:</i>	Complete test				
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15, Subpart C Section 15.247 ANSI C63.10: 2013 KDB 558074 D01 DTS Meas Guidance v03r05 RSS-Gen Issue 4, November 2014 RSS-247 Issue 2, February 2017				
Wareneingangsdatum: <i>Date of receipt:</i>	11.17.2016				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000457947-001				
Prüfzeitraum: <i>Testing period:</i>	11.18.2016 to 01.03.2017				
Ort der Prüfung: <i>Place of testing:</i>	MRT Technology(Suzhou) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
03.03.2017	Elliot Zhang / Senior Project Engineer	03.03.2017	Shi Li / Section Manager		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor
	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet	
	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.					
<i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

v04

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 6dB & 99% BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS***RESULT: Pass***5.1.5 POWER SPECTRAL DENSITY***RESULT: Pass***5.2.1 CONDUCTED EMISSION***RESULT: N/A***5.3.1 RADIATED SPURIOUS EMISSION***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment
Radiated Test Equipments

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MY45300136	12.08.2017
EMI Test Receiver	R&S	ESR7	101209	11.03.2017
Preamplifier	Schwarzbeck	BBV 9721	9721-008	04.16.2017
Preamplifier	Agilent	83017A	MY53270040	03.29.2017
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	12.14.2017
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	11.07.2017
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	11.07.2017
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	01.04.2018
Digital Thermometer & Hygrometer	Minggao	N/A	N/A	11.30.2017

Conducted Test Equipments

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	05.08.2017
USB Wideband Power Sensor	Boonton	55006	8911	05.08.2017
Temperature/Humidity Meter	Yuhuaze	N/A	N/A	12.20.2017

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a Bluetooth 4.2 dual-mode module using on telephone.

The aim of this report is to evaluate the RF characteristic of the Bluetooth Low Energy Part of this module.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	BTDB02
Brand Name:	Alcatel-Lucent
Model No.:	BTDB02
Rated Voltage:	DC 3.3V
Type of Product:	Portable Device
Bluetooth Classical	
Frequency Range:	2402 – 2480MHz
Modulation Type:	BR: GFSK EDR: $\pi/4$ -DQPSK; 8DPSK
Antenna Type:	PCB antenna
Antenna Gain:	5.1dBi
Bluetooth Low Energy	
Frequency Range:	2402 – 2480MHz
Modulation Type:	GFSK
Antenna Type:	PCB antenna
Antenna Gain:	5.1dBi

3.3 Independent Operation Modes

Table 4: Independent Operation Modes

Test Mode	Channel	Frequency
TM1	00	2402
TM2	19	2440
TM3	39	2480

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT: **Pass**

According to the manufacturer declared, the EUT has one PCB antenna, the directional gain of antenna is 5.1 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 5: Antenna Requirement

FCC 15.203 – Antenna Requirement 1	
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device
Results:	Antenna type: PCB antenna
Verdict:	PASS

FCC 15.204 – Antenna Requirement 2	
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.
Results:	Only one integral antenna can be used
Verdict:	PASS

RSS-Gen 6.3 – External Control	
Requirement:	The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the limits prescribed in the applicable RSS.
Results:	The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.
Verdict:	PASS

RSS-Gen 8.3 – Antenna Requirement

Requirement: 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 measurement or on data from the antenna manufacture.

Results:

a) Antenna type:	PCB antenna
b) Manufacture:	N/A
c) Model No.:	N/A
d) Gain with reference to an isotropic radiator:	5.1dBi

Verdict: PASS

5.1.2 Peak Output Power

RESULT:
Pass

Date of testing : 12.28.2016
 Test standard : FCC Part 15.247(b)(3)
 Clause 5.4(d) of RSS-247 Issue 2 February 2017
 Test procedure : ANSI C63.10: 2013
 Clause 9.1 of KDB 558074 D01 v03r05
 Limit : FCC Part 15.247(b)(3)
 Clause 5.4(d) of RSS-247 Issue 2 February 2017
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM3
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 6: Peak Output Power, TM1 to TM3

Mode	Antenna Gain [dBi]	CH.	Freq. [MHz]	Maximum Peak Conducted Output Power [dBm]	Peak Conducted Output Power Limit [dBm]	Maximum EIRP [dBm]	RSS-247 EIRP Limit [dBm]
TM1	5.1	00	2402	-7.52	30	-2.42	36
TM2		19	2440	-6.78	30	-1.68	36
TM3		39	2480	-6.68	30	-1.58	36

Note:

$$\text{EIRP} = \text{Peak Conducted Output Power} + \text{Antenna Gain}$$

5.1.3 6dB & 99% Bandwidth

RESULT:**Pass**

Date of testing : 12.28.2016
Test standard : FCC Part 15.247(a)(2)
Clause 5.2(a) of RSS-247 Issue 2 February 2017
Test procedure : ANSI C63.10: 2013
Clause 8 of KDB 558074 D01 v03r05
Limit : FCC Part 15.247(a)(2)
Clause 5.2(a) of RSS-247 Issue 2 February 2017
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : TM1 to TM3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 7: 6dB & 99% Bandwidth, TM1 to TM3

Mode	Frequency [MHz]	6dB Bandwidht [kHz]	99% Bandwidth [kHz]
TM1	2402	674.7	1039.9
TM2	2440	672.9	1041.3
TM3	2480	678.8	1044.1

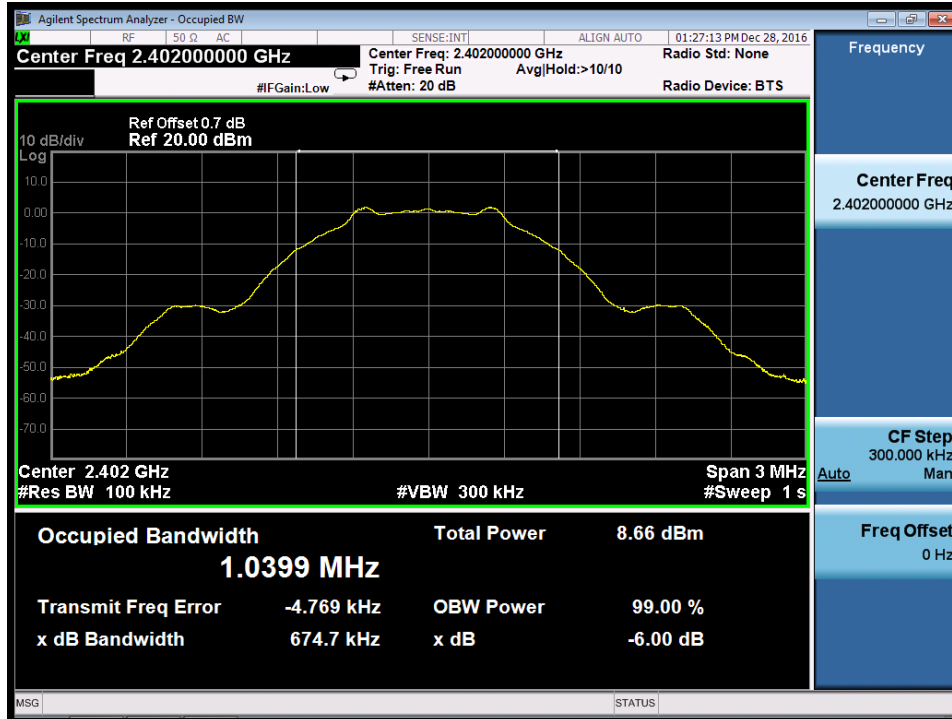
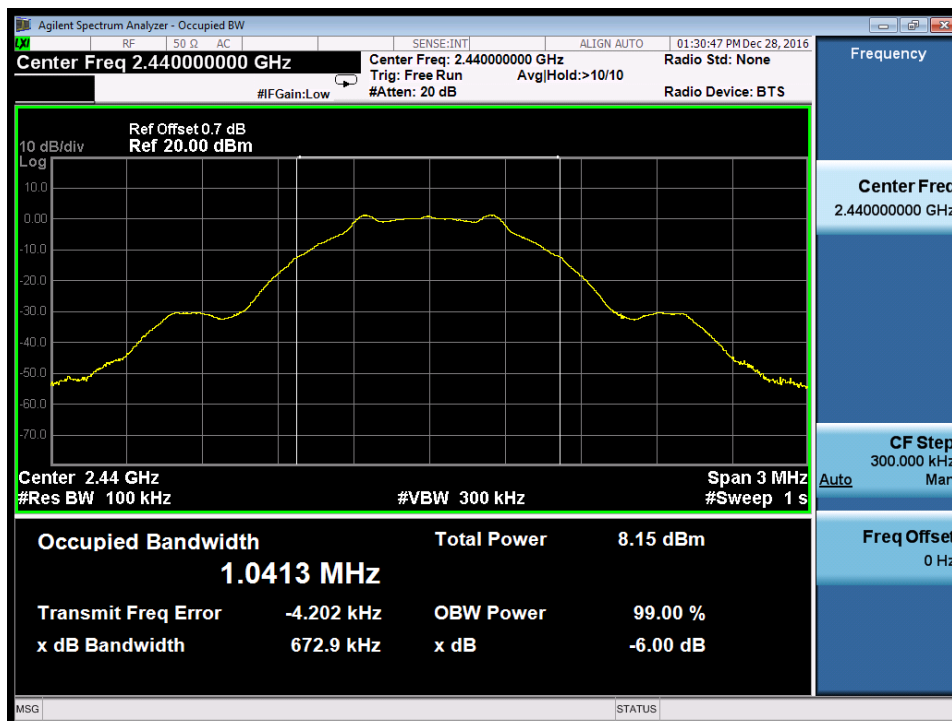
Figure 1: 6dB & 99% Bandwidth, TM1

Figure 2: 6dB & 99% Bandwidth, TM2


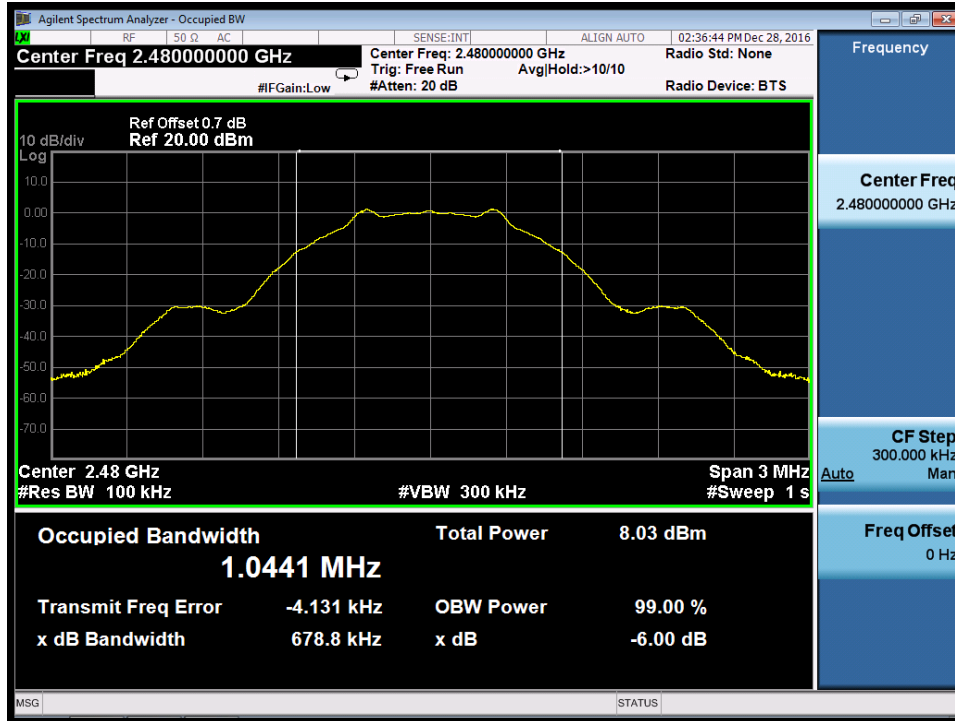
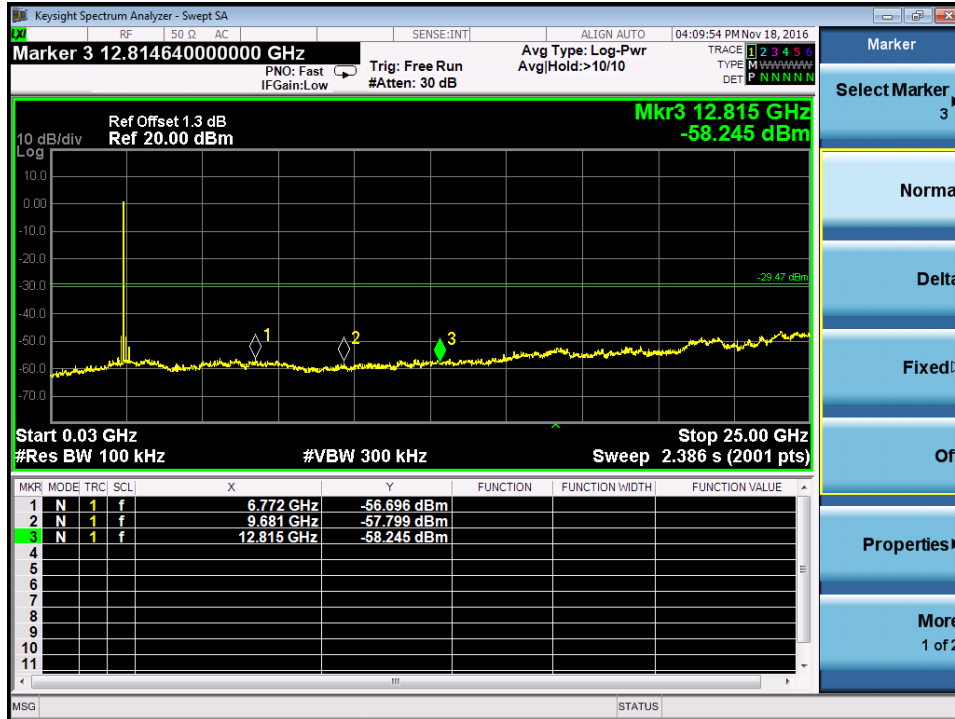
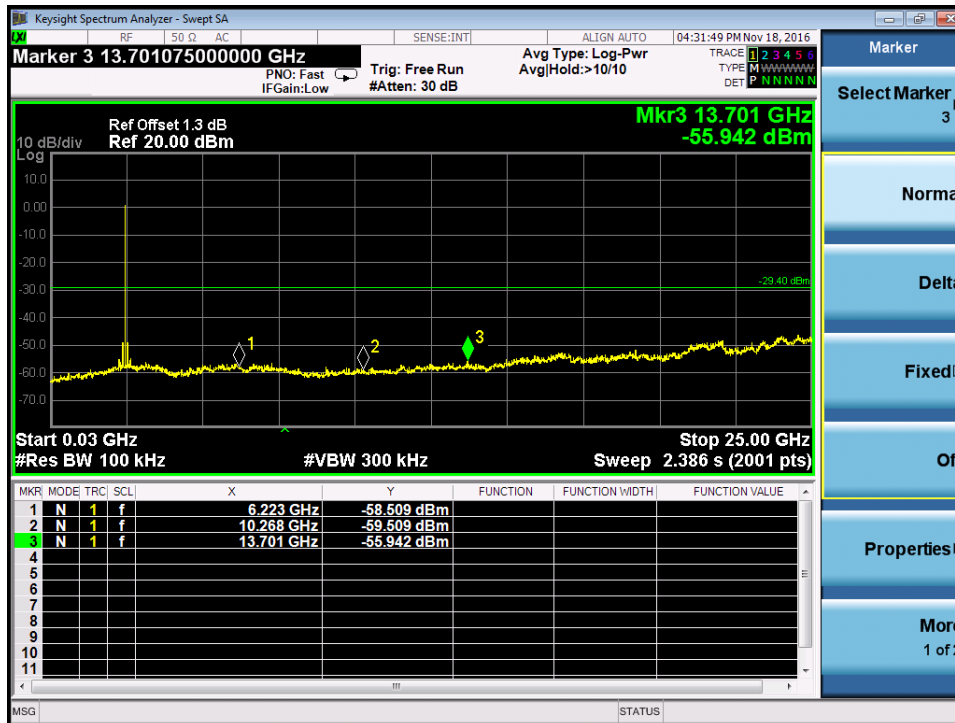
Figure 3: 6dB & 99% Bandwidth, TM3


Figure 5: Conducted Spurious Emission, TM2

Figure 6: Conducted Spurious Emission, TM3


5.1.5 Power Spectral Density

RESULT: **Pass**

Date of testing : 12.28.2016
 Test standard : FCC Part 15.247(e)
 Clause 5.2(b) of RSS-247 Issue 2 February 2017
 Test procedure : ANSI C63.10: 2013
 Clause 10 of KDB 558074 D01 v03r05
 Limit : FCC Part 15.247(e)
 Clause 5.2(b) of RSS-247 Issue 2 February 2017
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM3
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 8: Power Spectral Density, TM1 to TM3

Mode	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
TM1	2402	-7.95	8
TM2	2440	-8.46	8
TM3	2480	-8.47	8

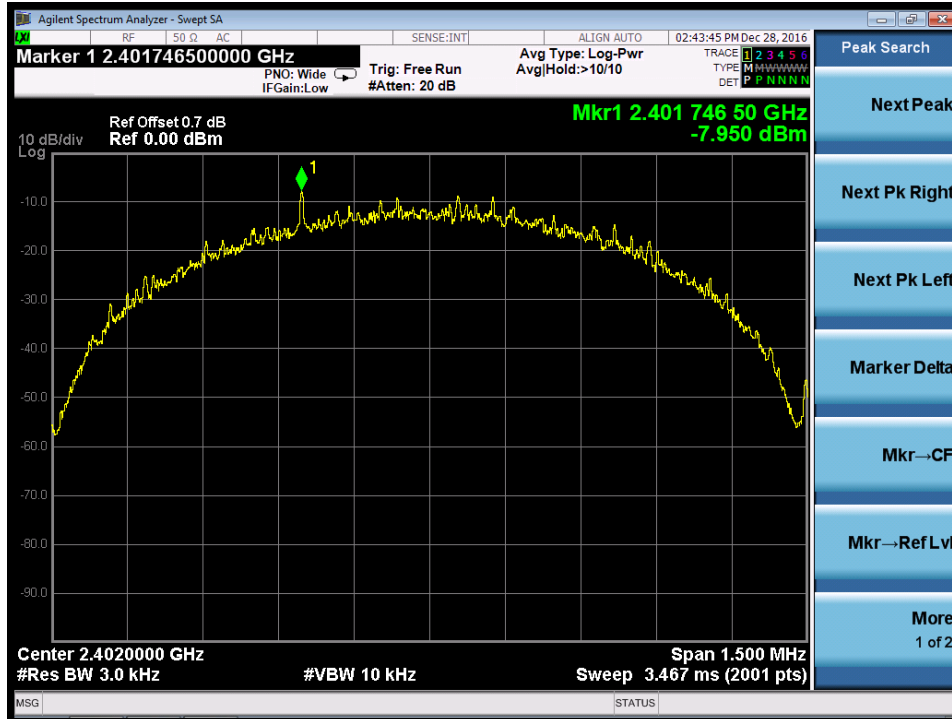
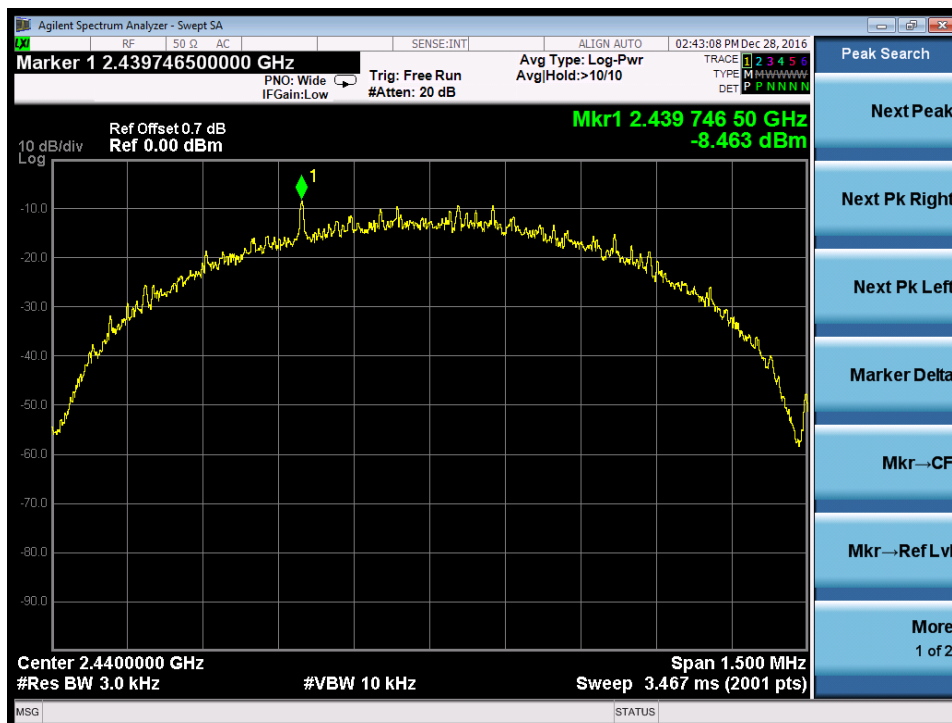
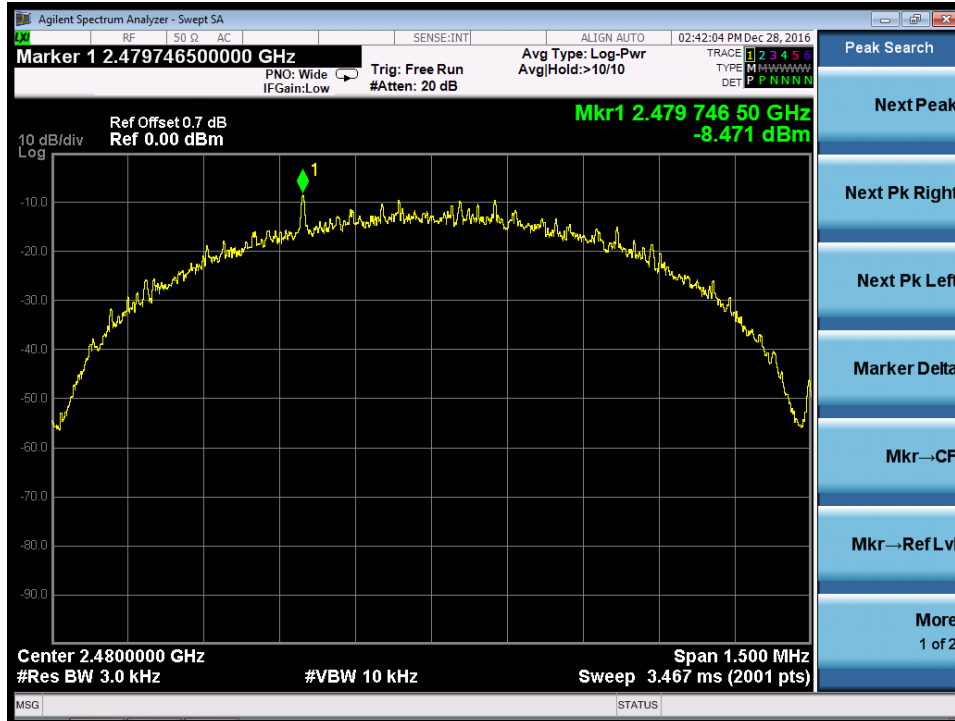
Figure 9: Power Spectral Density, TM1

Figure 10: Power Spectral Density, TM2


Figure 11: Power Spectral Density, TM3


5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:**N/A**

Date of testing : N/A
Test standard : FCC Part 15.207 (a)
Clause 8.8 of RSS-Gen Issue 4, November 2014
Test procedure : ANSI C63.10: 2013
Limit : FCC Part 15.207(a)
Clause 8.8 of RSS-Gen Issue 4, November 2014
Kind of test site : Shielded room

Note:

This test was not performed since the EUT is a build-in module which powered by the host equipment.

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Spurious Emission

RESULT:**Pass**

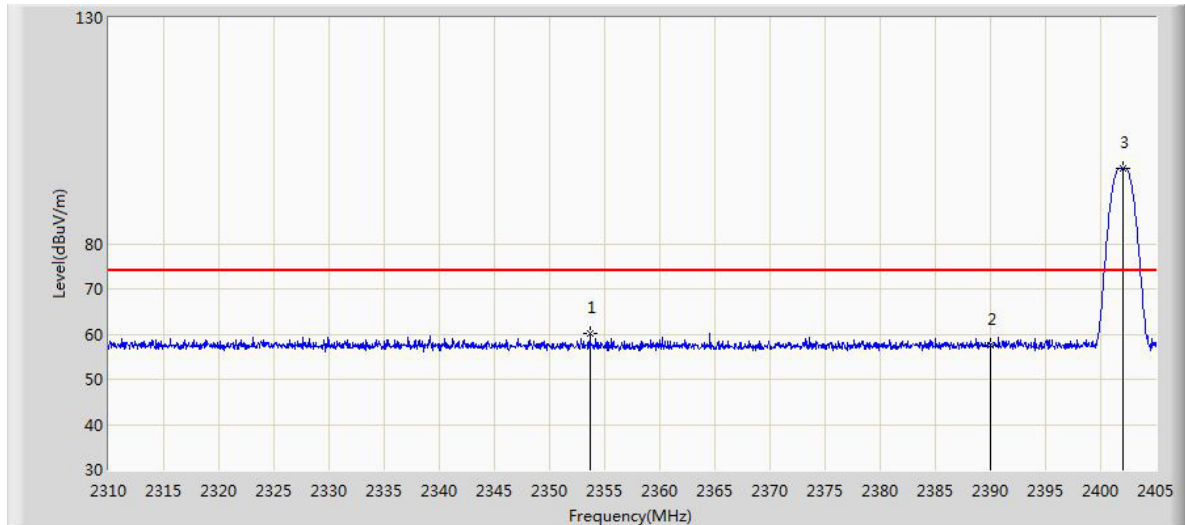
Date of testing : 01.03.2017
Test standard : FCC Part 15.247(d)
Clause 5.5 of RSS-247 Issue 2 February 2017
Test procedure : ANSI C63.10: 2013
Clause 11&12 of KDB 558074 D01 v03r05
Limit : FCC Part 15.247(d)
FCC Part 15.209(a)
Clause 5.5 of RSS-247 Issue 2 February 2017
Clause 8.9 of RSS-Gen Issue 4 November 2014
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

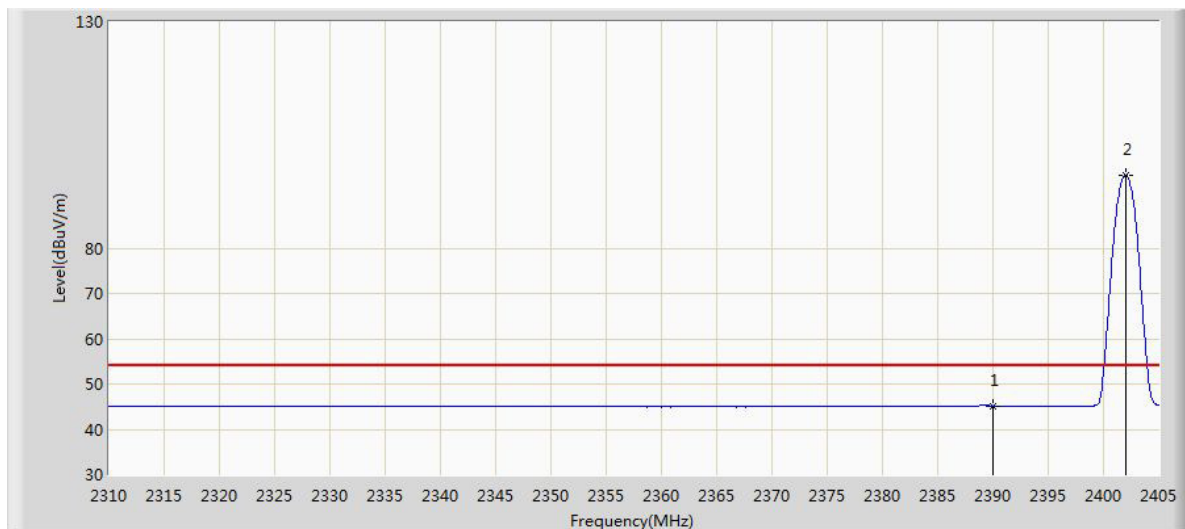
Test Channel : Low/ Middle/ High
Operation Mode : TM1 to TM3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 9: Radiated Spurious Emission, TM1 to TM3

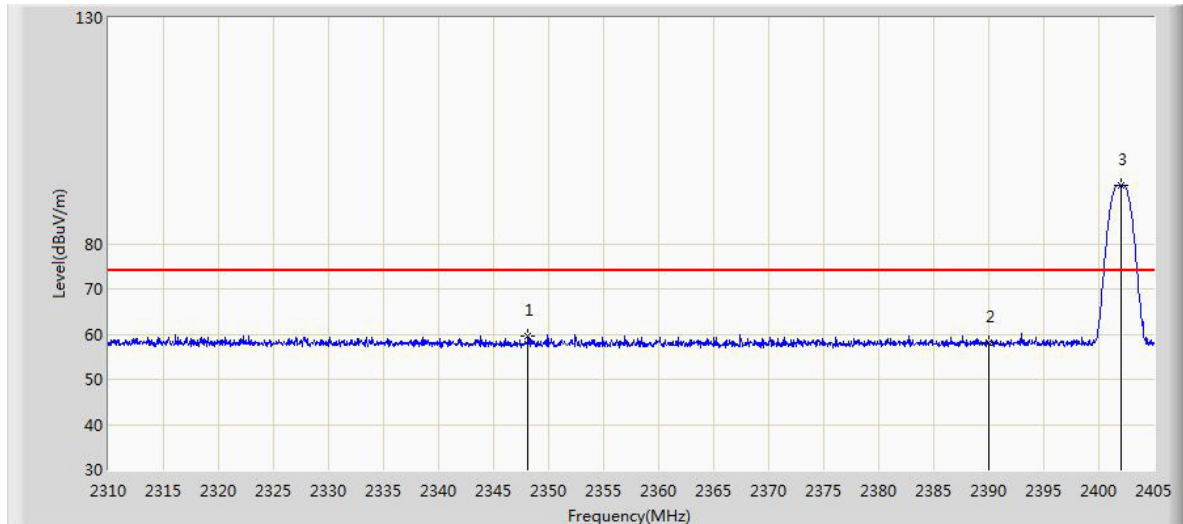
Channel	Freq. [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type	Ant. Pol.
TM1	5615.500	38.318	34.790	-35.682	74.000	3.528	PK	H
	7205.000	53.377	45.572	-20.623	74.000	7.805	PK	H
	9151.500	45.116	35.352	-28.884	74.000	9.763	PK	H
	11965.000	47.765	35.854	-26.235	74.000	11.911	PK	H
	5760.000	42.147	38.241	-31.853	74.000	3.906	PK	V
	9457.500	45.493	34.980	-28.507	74.000	10.513	PK	V
	10902.500	47.775	34.817	-26.225	74.000	12.958	PK	V
TM2	5105.500	37.940	34.674	-36.060	74.000	3.266	PK	H
	6567.500	41.112	35.128	-32.888	74.000	5.984	PK	H
	7323.500	53.042	45.000	-0.958	54.000	8.041	AV	H
	7324.000	53.919	45.876	-20.081	74.000	8.043	PK	H
	9551.000	45.095	34.260	-28.905	74.000	10.835	PK	H
	5292.500	38.228	35.084	-35.772	74.000	3.145	PK	V
	5760.000	40.351	36.445	-33.649	74.000	3.906	PK	V
	7319.940	50.836	42.805	-3.164	54.000	8.031	AV	V
	7324.000	56.150	48.107	-17.850	74.000	8.043	PK	V
9474.500	45.862	35.312	-28.138	74.000	10.551	PK	V	
TM3	2802.000	37.569	39.955	-36.431	74.000	-2.386	PK	H
	4748.500	38.211	35.667	-35.789	74.000	2.544	PK	H
	6652.500	41.319	35.326	-32.681	74.000	5.993	PK	H
	7442.500	52.991	45.000	-1.009	54.000	7.992	AV	H
	7443.000	54.613	46.621	-19.387	74.000	7.992	PK	H
	3562.192	35.312	36.144	-38.688	74.000	-0.831	PK	V
	5760.000	40.451	36.545	-33.549	74.000	3.906	PK	V
	7439.920	50.508	42.520	-3.492	54.000	7.989	AV	V
	7443.000	55.070	47.078	-18.930	74.000	7.992	PK	V
12152.000	47.503	35.744	-26.497	74.000	11.759	PK	V	

Figure 12: Radiated Restricted Band Edge, TM1, Horizontal, PK


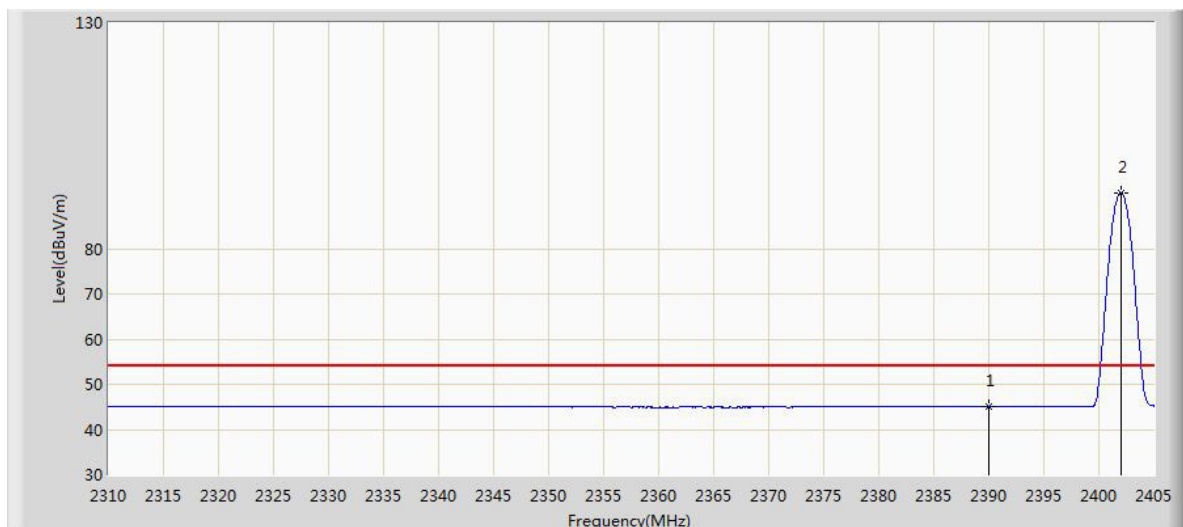
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2353.653	60.146	28.867	-13.854	74.000	31.279	PK
2390.000	57.492	26.289	-16.508	74.000	31.203	PK
2402.008	96.670	65.486	N/A	N/A	31.184	PK

Figure 13: Radiated Restricted Band Edge, TM1, Horizontal, AV


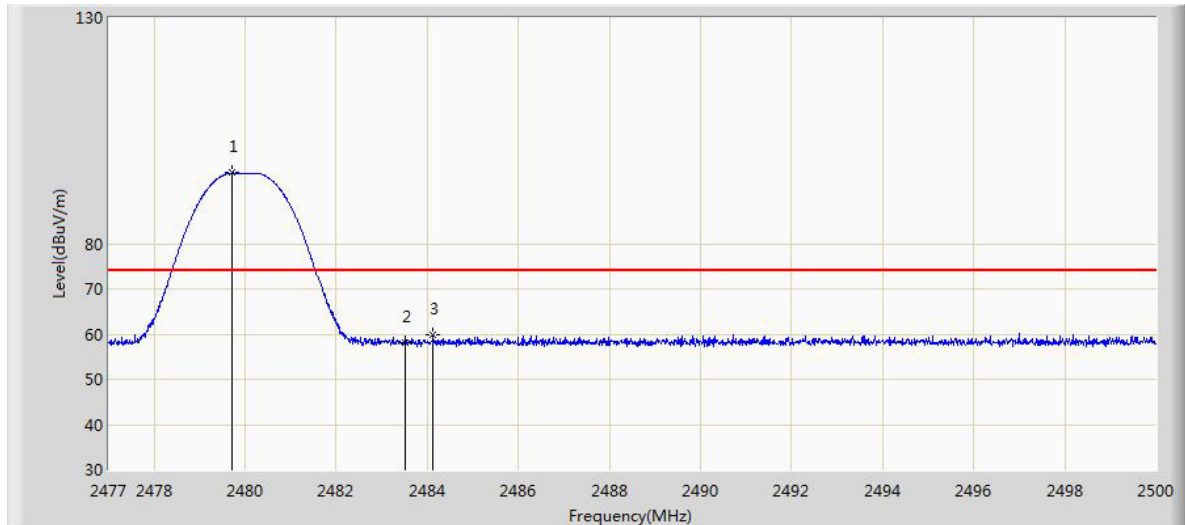
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2390.000	45.138	13.935	-8.862	54.000	31.203	AV
2402.008	96.122	64.938	N/A	N/A	31.184	AV

Figure 14: Radiated Restricted Band Edge, TM1, Vertical, PK


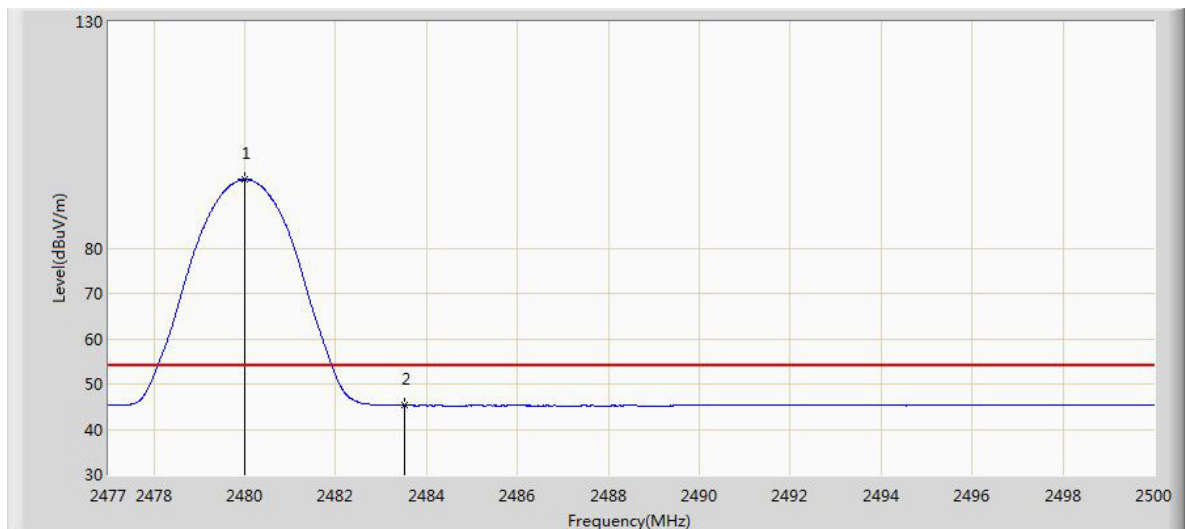
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2348.095	59.706	28.406	-14.294	74.000	31.299	PK
2390.000	58.105	26.902	-15.895	74.000	31.203	PK
2402.055	92.928	61.744	N/A	N/A	31.184	PK

Figure 15: Radiated Restricted Band Edge, TM1, Vertical, AV


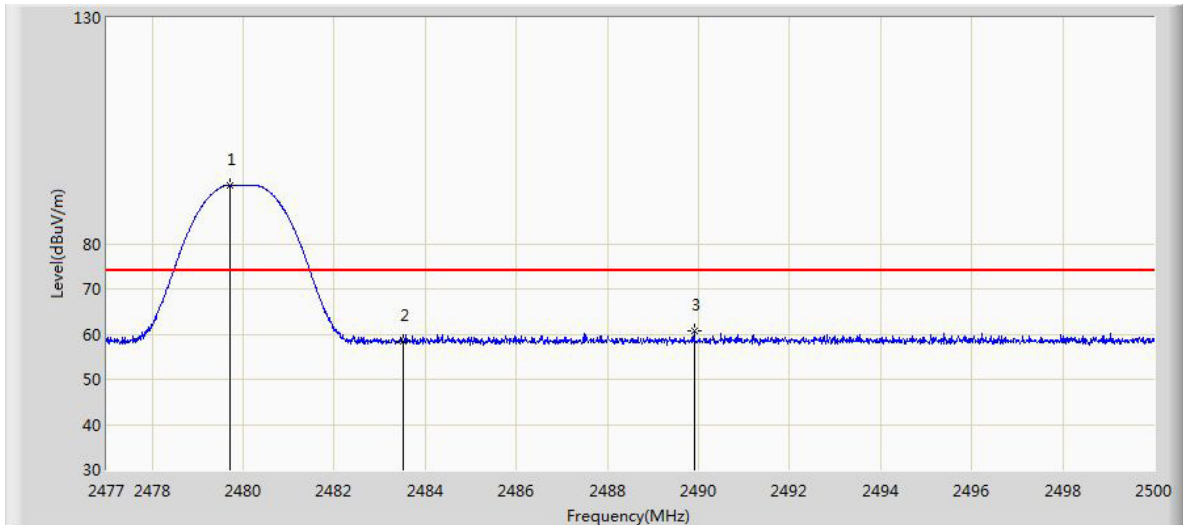
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2390.000	45.046	13.843	-8.954	54.000	31.203	AV
2402.008	92.242	61.058	N/A	N/A	31.184	AV

Figure 16: Radiated Restricted Band Edge, TM3, Horizontal, PK


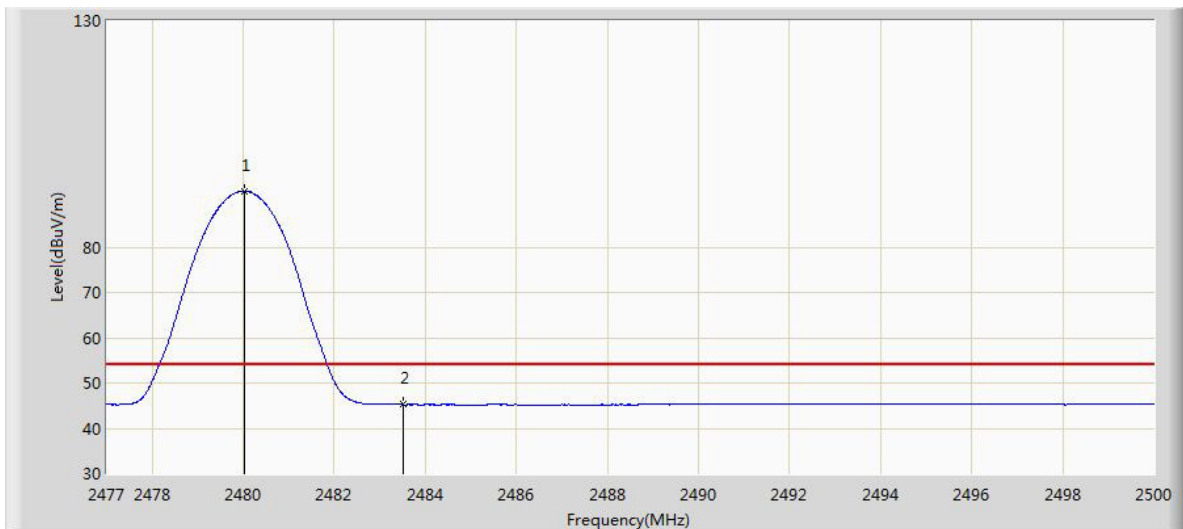
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2479.703	95.670	64.487	N/A	N/A	31.184	PK
2483.500	58.018	26.825	-15.982	74.000	31.194	PK
2484.130	59.730	28.535	-14.270	74.000	31.195	PK

Figure 17: Radiated Restricted Band Edge, TM3, Horizontal, AV


Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2479.990	95.125	63.941	N/A	N/A	31.184	AV
2483.500	45.255	14.062	-8.745	54.000	31.194	AV

Figure 18: Radiated Restricted Band Edge, TM3, Vertical, PK


Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2460.856	99.990	67.719	N/A	N/A	32.271	PK
2483.500	58.888	26.539	-15.112	74.000	32.349	PK
2485.024	60.244	27.893	-13.756	74.000	32.351	PK

Figure 19: Radiated Restricted Band Edge, TM3, Vertical, AV


Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2480.024	92.355	61.171	N/A	N/A	31.184	AV
2483.500	45.221	14.028	-8.779	54.000	31.194	AV

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