

Prüfbericht-Nr.: Test Report No.:	50046620 001	Auftrags-Nr.: Order No.:	154169393	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: Client Reference No.:	52158935	Auftragsdatum: Order date:	2016.05.23	
Auftraggeber: Client:	GENERAL TOOLS & INSTRUMENTS COMPANY LLC 75 Seaview Drive Secaucus New Jersey United States 07094			
Prüfgegenstand: Test item:	ToolSmart Digital Moisture Meter			
Bezeichnung / Typ-Nr.: Identification / Type No.:	TS06 FCC ID: YRKTS06			
Auftrags-Inhalt: Order content:	Complete test			
Prüfgrundlage: Test specification:	FCC CFR47 Part 15, Subpart C Section 15.247 ANSI C63.10: 2013 KDB 558074 D01 DTS Meas Guidance v03r05			
Wareneingangsdatum: Date of receipt:	2016.05.13			
Prüfmuster-Nr.: Test sample No.:	A000359887-002			
Prüfzeitraum: Testing period:	2016.05.24 to 2016.05.26			
Ort der Prüfung: Place of testing:	MRT Technology(Suzhou) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
2016.06.16 Elliot Zhang / Senior Project Engineer		2016.06.16 Shi Li / Section Manager		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
Sonstiges / Other				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* 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) = 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. 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.				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 6dB BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS

RESULT: Pass

5.1.5 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.6 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
Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	2016.11.03
Two-Line V-Network	R&S	ENV216	101683	2016.11.03
Two-Line V-Network	R&S	ENV216	101684	2016.11.03
Temperature/Humidity Meter	Yuhuaze	N/A	N/A	2016.12.20

Radiated Emission

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MY45300136	2016.12.08
EMI Test Receiver	R&S	ESR7	101209	2016.11.03
Preamplifier	Schwarzbeck	BBV 9721	9721-008	2017.04.16
Preamplifier	Agilent	83017A	MY53270040	2017.03.29
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	2016.12.14
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	2016.11.07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	2016.11.07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	2017.01.04
Digital Thermometer & Hygrometer	Minggao	N/A	N/A	2016.11.30

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	2017.05.08
USB Wideband Power Sensor	Boonton	55006	8911	2017.05.08
Temperature/Humidity Meter	Yuhuaze	N/A	N/A	2016.12.20

Software	Version	Function
e3	V8.3.5	EMI Test Software

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 Digital moisture meter which use the technic of Bluetooth 4.0 Low Energy Only.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Kind of Equipment	ToolSmart Digital Moisture Meter
Type Designation	TS06
Operating Frequency band	2402 – 2480MHz
Modulation	GFSK
Operation Voltage	DC 9V (by Battery: 6F22/6LR61)
Antenna	Chip Antenna, Max gain 3.19dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low Channel
 - 2. Middle Channel
 - 3. High Channel
- B. Receiving
- C. Standby
- D. Off

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

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

According to the manufacturer declared, the EUT has one chip antenna, the directional gain of antenna is 3.19dBi 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 3: 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: Chip 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

5.1.2 Peak Output Power

RESULT:**Pass**

Date of testing : 2016.05.26
Test standard : FCC Part 15.247(b)(3)
Test procedure : ANSI C63.10: 2013
Clause 9.1 of KDB 558074 D01 v03r05
Limit : FCC Part 15.247(b)(3)
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1; A.2; A.3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 4: Peak Output Power

Mode	Freq. [MHz]	Maximum Peak Conducted Output Power [dBm]	Limit [dBm]
BLE	2402	-5.47	30
	2440	-7.08	30
	2480	-7.57	30

5.1.3 6dB Bandwidth**RESULT:****Pass**

Date of testing : 2016.05.26
Test standard : FCC Part 15.247(a)(2)
Test procedure : ANSI C63.10: 2013
Clause 8 of KDB 558074 D01 v03r05
Limit : FCC Part 15.247(a)(2)
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1; A.2; A.3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 5: 6dB Bandwidth

Mode	Frequency [MHz]	6dB Bandwidth [kHz]	Limit [kHz]
BLE	2402	687.7	500
	2440	682.8	500
	2480	669.5	500

Figure 1: 6dB Bandwidth, 2402MHz

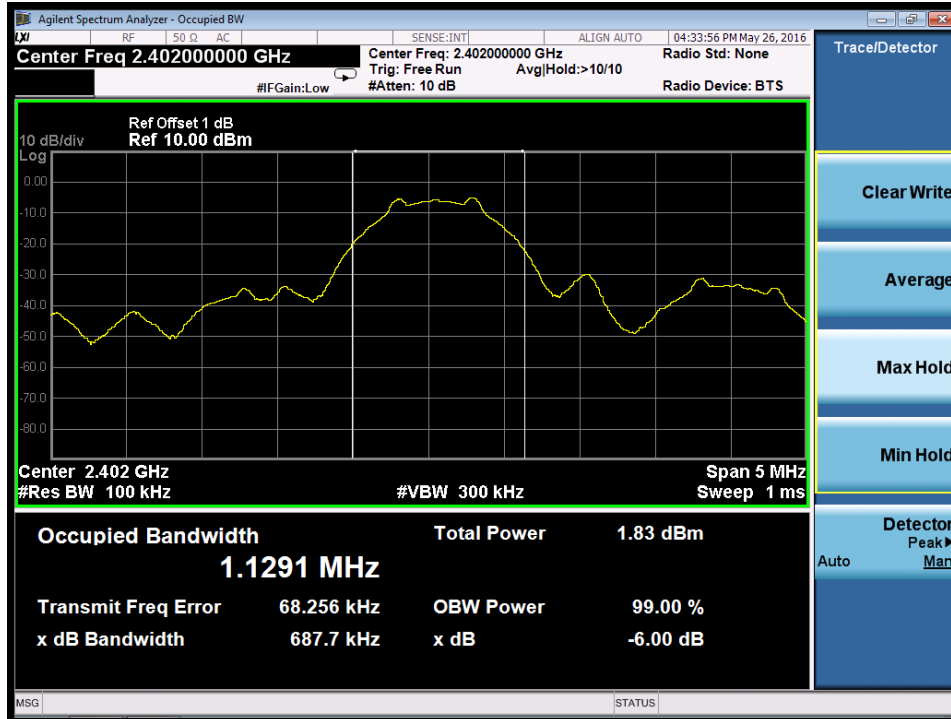


Figure 2: 6dB Bandwidth, 2440MHz

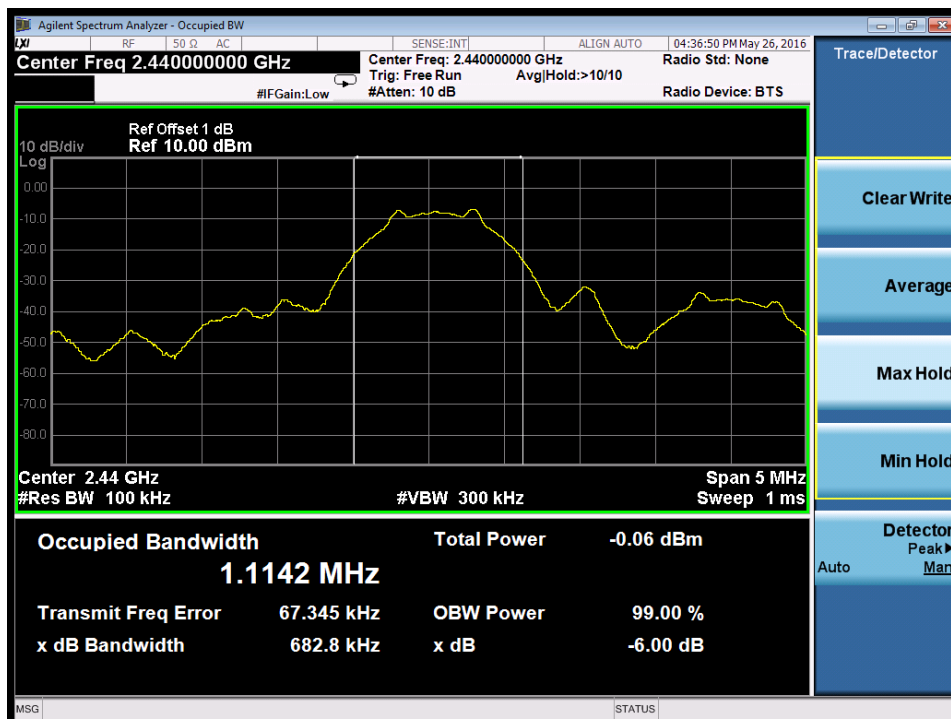
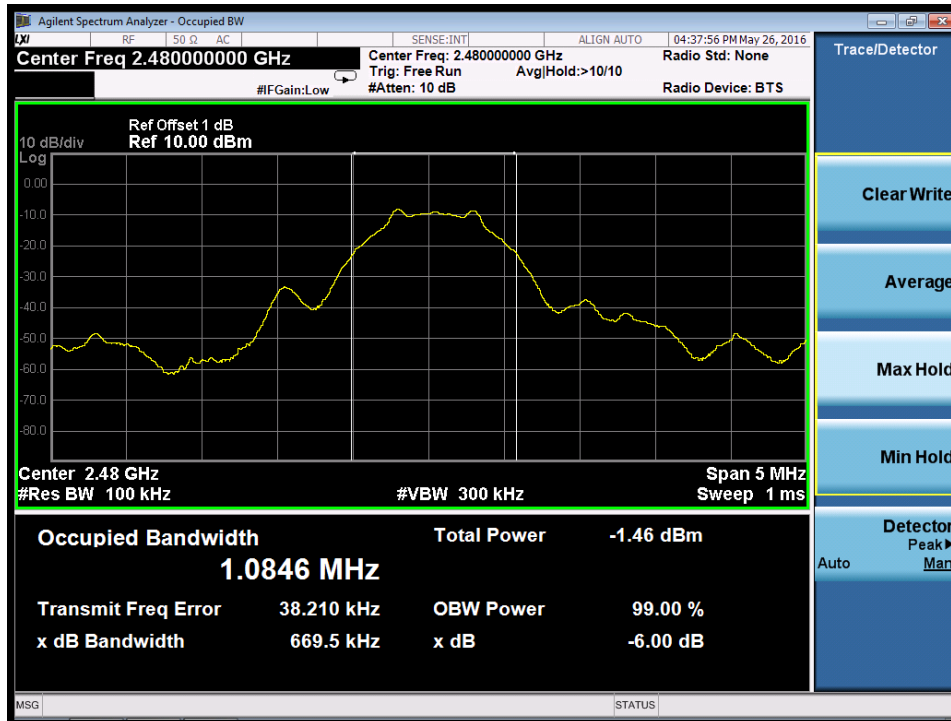


Figure 3: 6dB Bandwidth, 2480MHz



5.1.4 Conducted Spurious Emissions

RESULT:
Pass

Date of testing : 2016.05.26
 Test standard : FCC Part 15.247(d)
 Test procedure : ANSI C63.10: 2013
 Limit : FCC Part 15.247(d)
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1; A.2; A.3
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

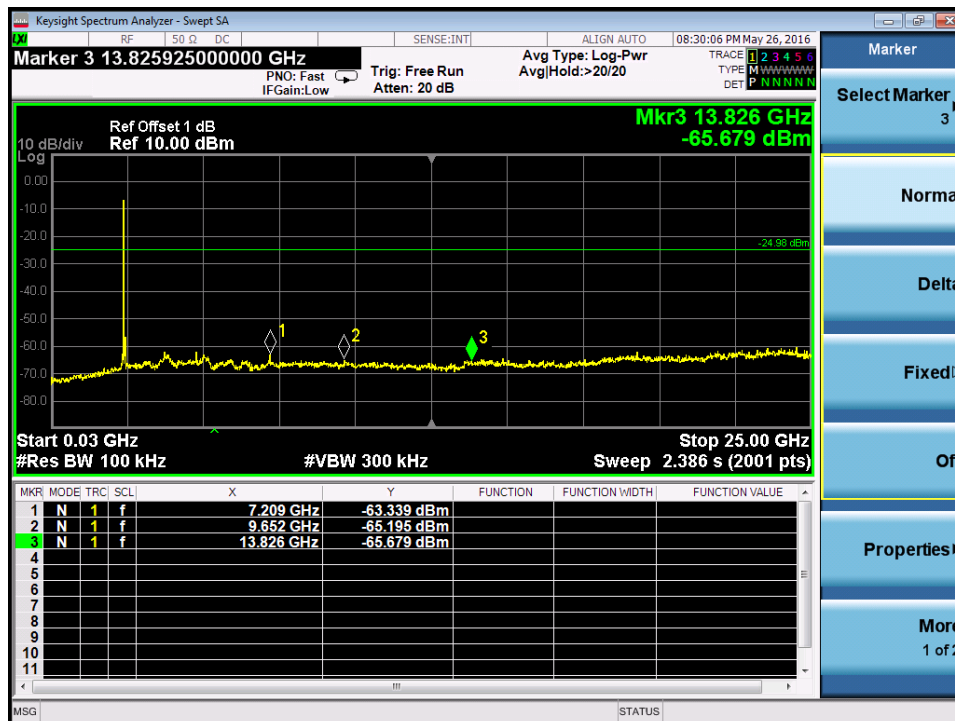
Figure 4: Conducted Spurious Emission, 2402MHz


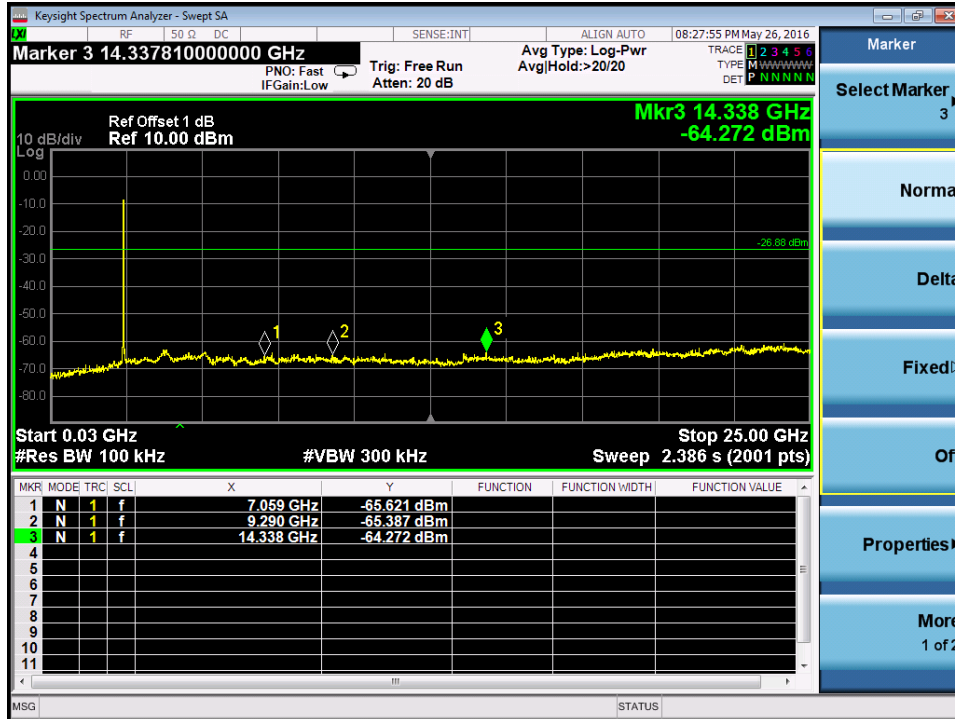
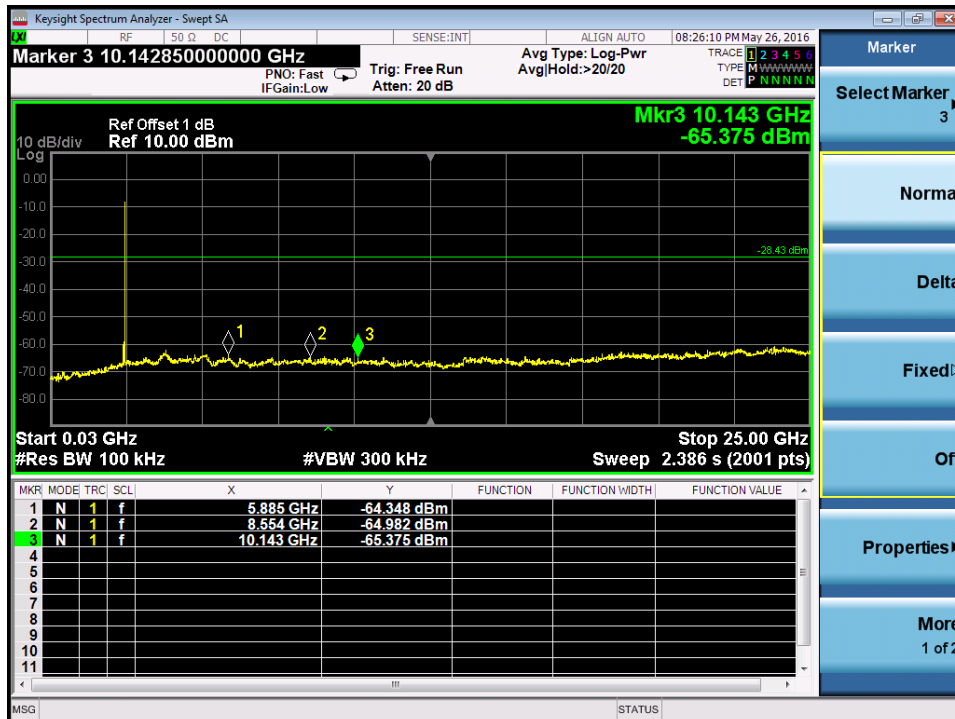
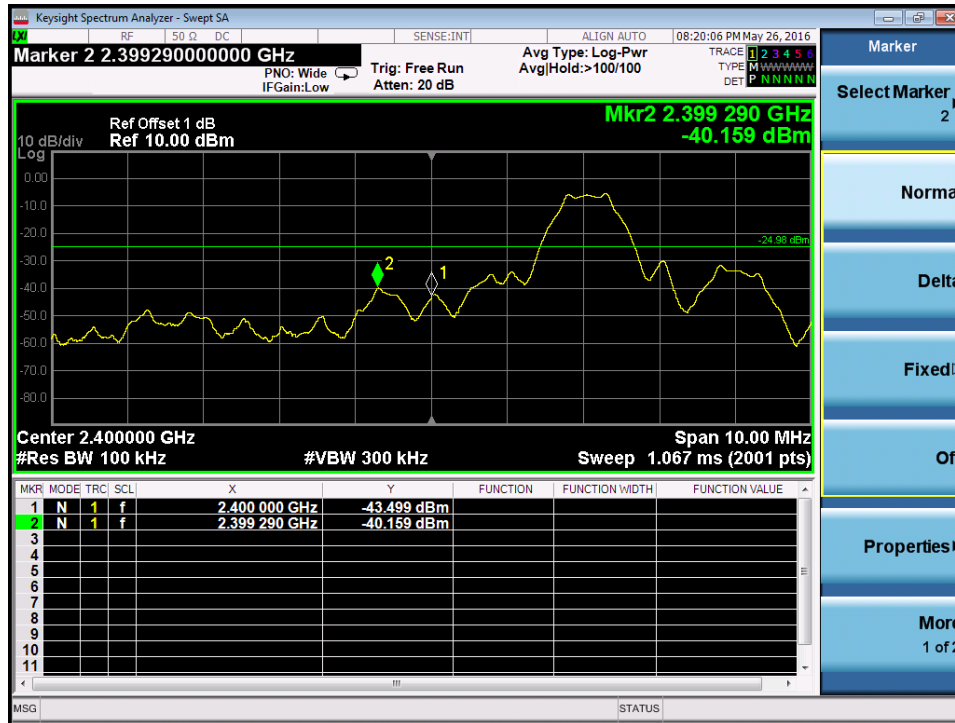
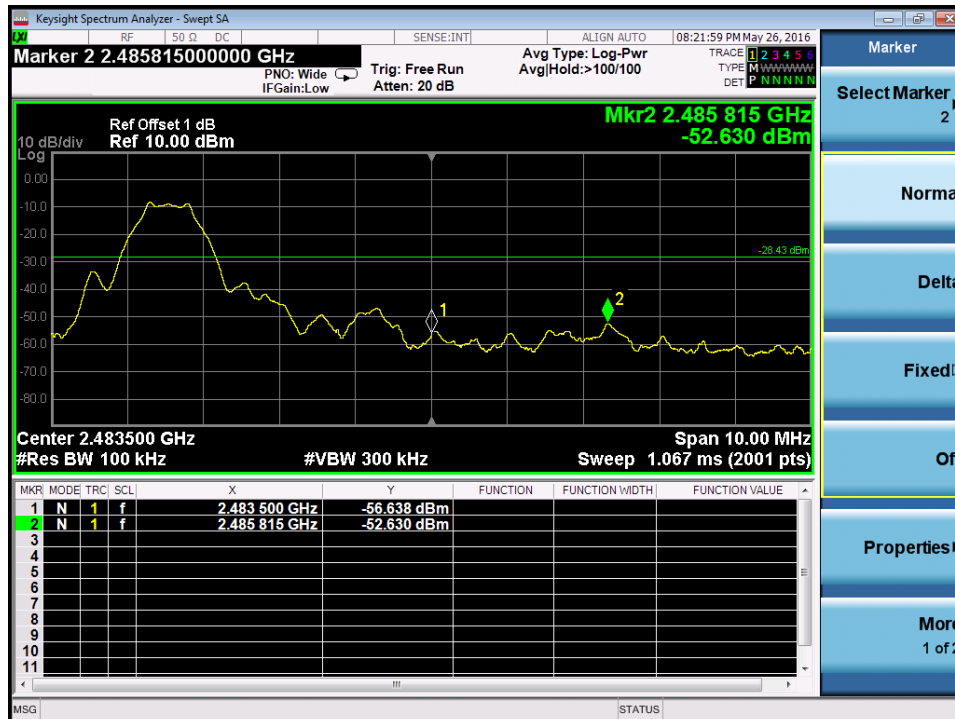
Figure 5: Conducted Spurious Emission, 2440MHz

Figure 6: Conducted Spurious Emission, 2480MHz


Figure 7: Conducted Bandedge, 2402MHz

Figure 8: Conducted Bandedge, 2480MHz


5.1.5 Power Spectral Density

RESULT:**Pass**

Date of testing : 2016.05.26
Test standard : FCC Part 15.247(e)
Test procedure : ANSI C63.10: 2013
Clause 10 of KDB 558074 D01 v03r05
Limit : FCC Part 15.247(e)
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1; A.2; A.3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 6: Power Spectral Density

Mode	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
BLE	2402	-16.627	8
	2440	-18.326	8
	2480	-19.601	8

Figure 9: Power Spectral Density, 2402MHz



Figure 10: Power Spectral Density, 2440MHz

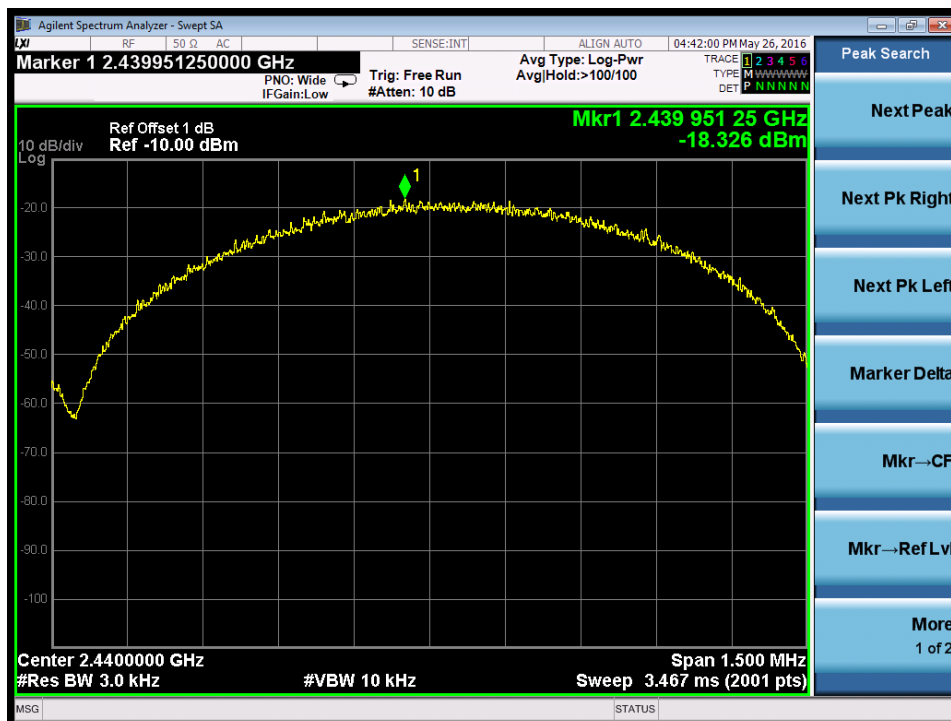
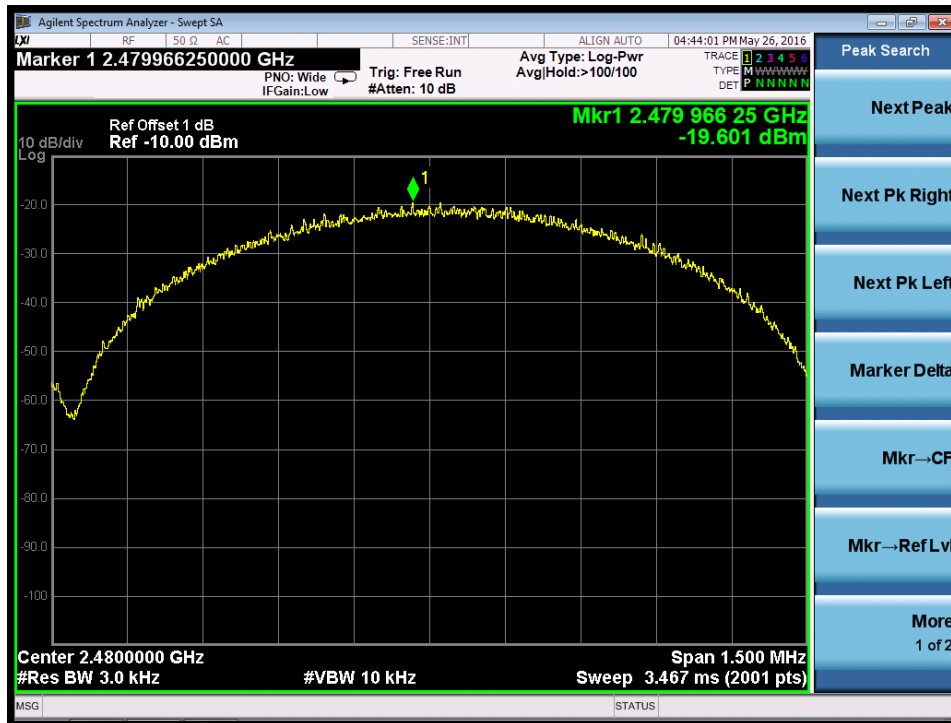


Figure 11: Power Spectral Density, 2480MHz



5.1.6 Radiated Spurious Emission

RESULT:
Pass

Date of testing : 2016.05.24
 Test standard : FCC Part 15.247(d)
 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)
 Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1; A.2; A.3
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 7: Radiated Spurious Emission, below 1GHz

Channel	Freq. [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type	Ant. Pol.
Low	55.210	15.039	0.390	-24.961	40.000	14.650	QP	H
	108.620	12.666	-0.330	-30.834	43.500	12.996	QP	H
	258.940	14.666	0.790	-31.334	46.000	13.877	QP	H
	398.040	16.644	-0.080	-29.356	46.000	16.724	QP	H
	730.360	22.742	0.710	-23.258	46.000	22.032	QP	H
	889.470	24.770	0.710	-21.230	46.000	24.060	QP	H
	54.710	14.231	-0.500	-25.769	40.000	14.732	QP	V
	99.960	12.275	-0.700	-31.225	43.500	12.975	QP	V
	294.350	13.832	-0.620	-32.168	46.000	14.452	QP	V
	544.120	19.413	0.387	-26.587	46.000	19.027	QP	V
	718.360	21.012	-0.860	-24.988	46.000	21.872	QP	V
	844.850	23.391	-0.170	-22.609	46.000	23.561	QP	V

Note:

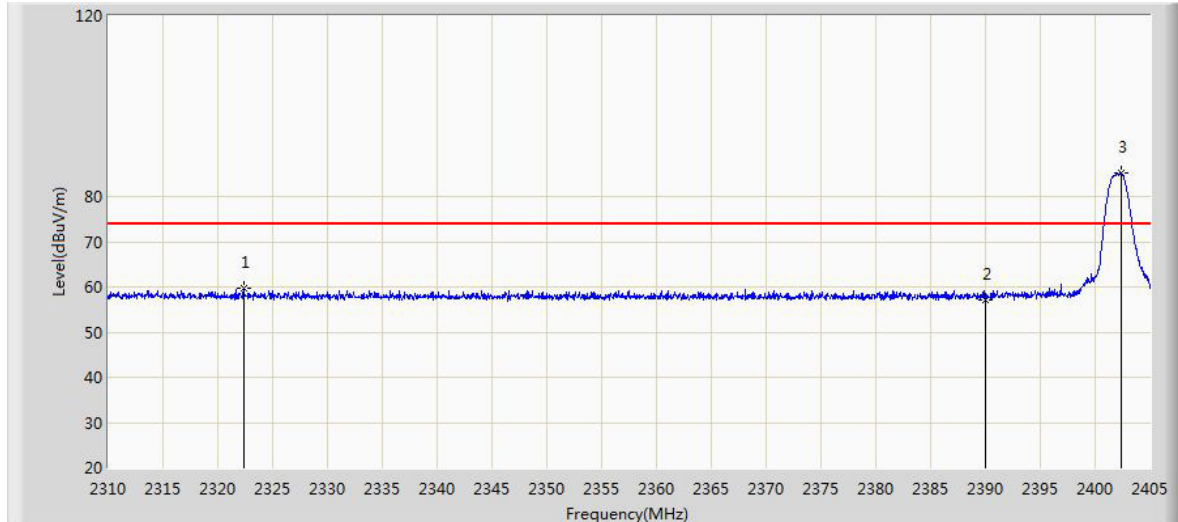
All the three channels have been evaluated, only the worst case was shown on the table above.

Table 8: Radiated Spurious Emission, above 1GHz

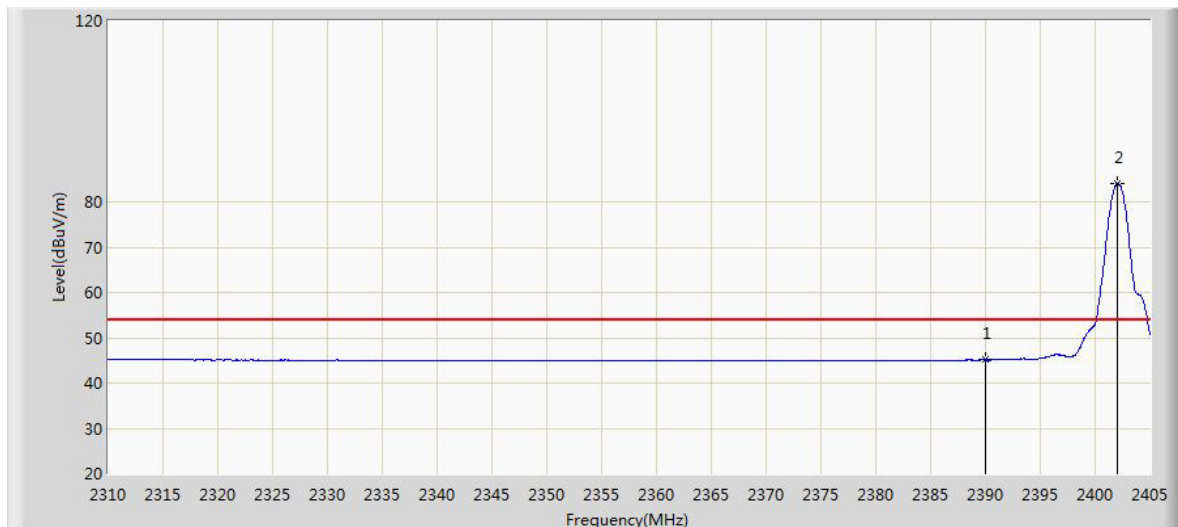
Channel	Freq. [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type	Ant. Pol.
Low	3796.500	37.754	37.980	-36.246	74.000	-0.227	PK	H
	4808.000	43.413	40.719	-30.587	74.000	2.694	PK	H
	6372.000	41.488	36.223	-32.512	74.000	5.265	PK	H
	9806.000	46.043	34.522	-27.957	74.000	11.521	PK	H
	3847.500	38.057	38.027	-35.943	74.000	0.029	PK	V
	4808.000	41.353	38.659	-32.647	74.000	2.694	PK	V
	6423.000	42.467	36.883	-31.533	74.000	5.584	PK	V
	9687.000	45.750	34.850	-28.250	74.000	10.900	PK	V
Middle	3856.000	38.023	37.959	-35.977	74.000	0.064	PK	H
	4884.500	42.407	39.722	-31.593	74.000	2.684	PK	H
	6669.500	42.363	36.449	-31.637	74.000	5.914	PK	H
	9653.000	46.795	35.806	-27.205	74.000	10.989	PK	H
	3949.500	38.417	38.131	-35.583	74.000	0.286	PK	V
	4884.500	41.640	38.955	-32.360	74.000	2.684	PK	V
	6780.000	42.374	36.467	-31.626	74.000	5.907	PK	V
	14591.500	51.968	36.265	-22.032	74.000	15.702	PK	V
High	3932.500	36.675	36.413	-37.325	74.000	0.262	PK	H
	4961.000	40.999	38.087	-33.001	74.000	2.912	PK	H
	6644.000	42.953	36.928	-31.047	74.000	6.025	PK	H
	9746.500	46.085	34.783	-27.915	74.000	11.302	PK	H
	3873.000	38.517	38.408	-35.483	74.000	0.109	PK	V
	4961.000	40.990	38.078	-33.010	74.000	2.912	PK	V
	6933.000	43.469	36.849	-30.531	74.000	6.620	PK	V
	9670.000	47.119	36.207	-26.881	74.000	10.912	PK	V

Note:

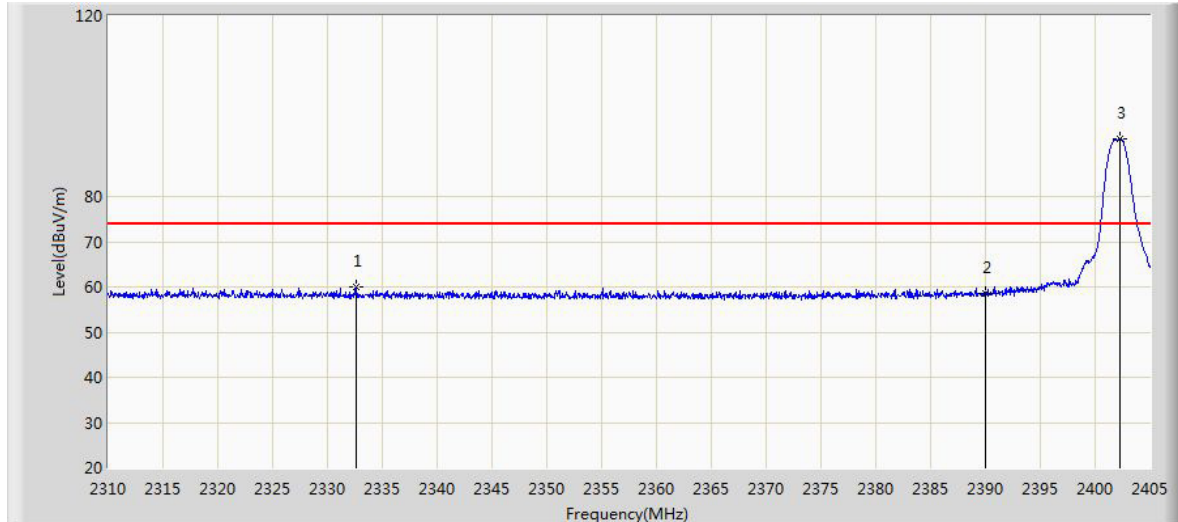
The measurements using an average detector for the frequency above 1GHz were not performed since the results measured with a Peak detector are totally meet the average limit.

Figure 12: Radiated Restricted Band Edge, 2402MHz, Horizontal, PK

Table 9: Radiated Restricted Band Edge, 2402MHz, Horizontal, PK

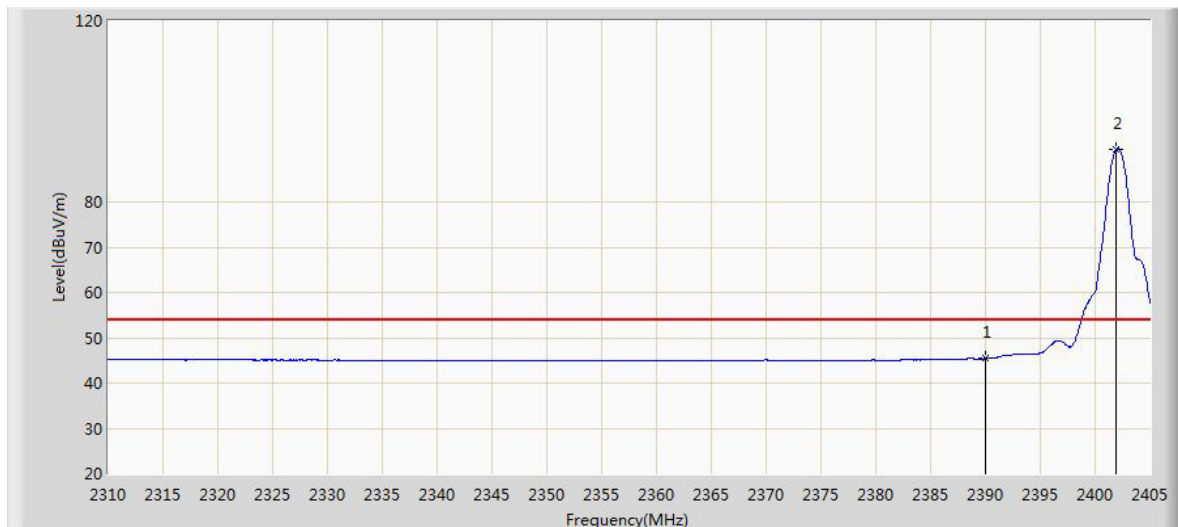
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2322.350	59.609	28.200	-14.391	74.000	31.409	PK
2390.000	57.004	25.801	-16.996	74.000	31.203	PK
2402.340	85.165	53.981	N/A	N/A	31.184	PK

Figure 13: Radiated Restricted Band Edge, 2402MHz, Horizontal, AV

Table 10: Radiated Restricted Band Edge, 2402MHz, Horizontal, AV

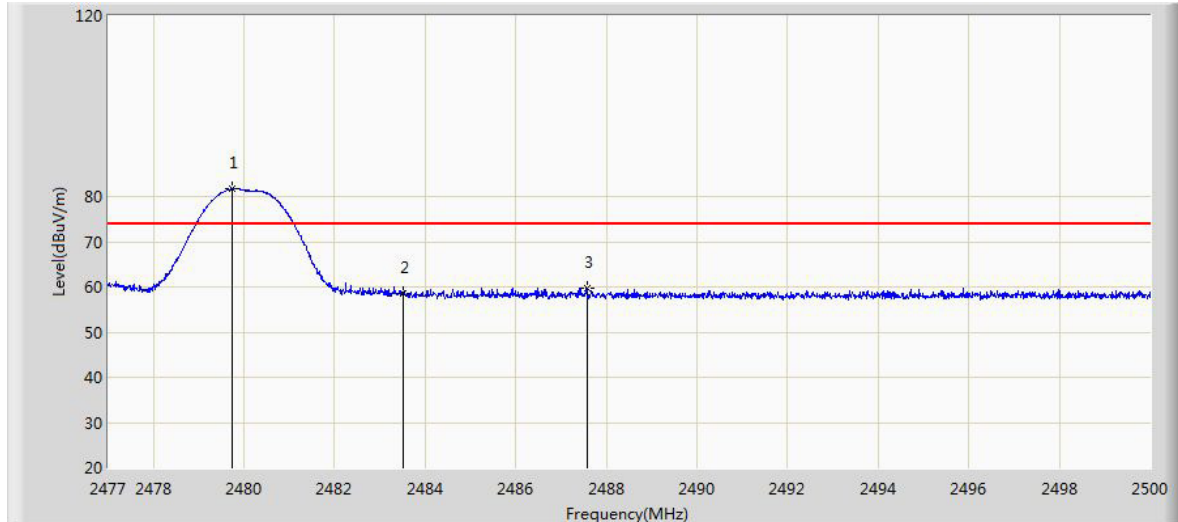
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2390.000	45.078	13.875	-8.922	54.000	31.203	AV
2402.008	84.002	52.818	N/A	N/A	31.184	AV

Figure 14: Radiated Restricted Band Edge, 2402MHz, Vertical, PK

Table 11: Radiated Restricted Band Edge, 2402MHz, Vertical, PK

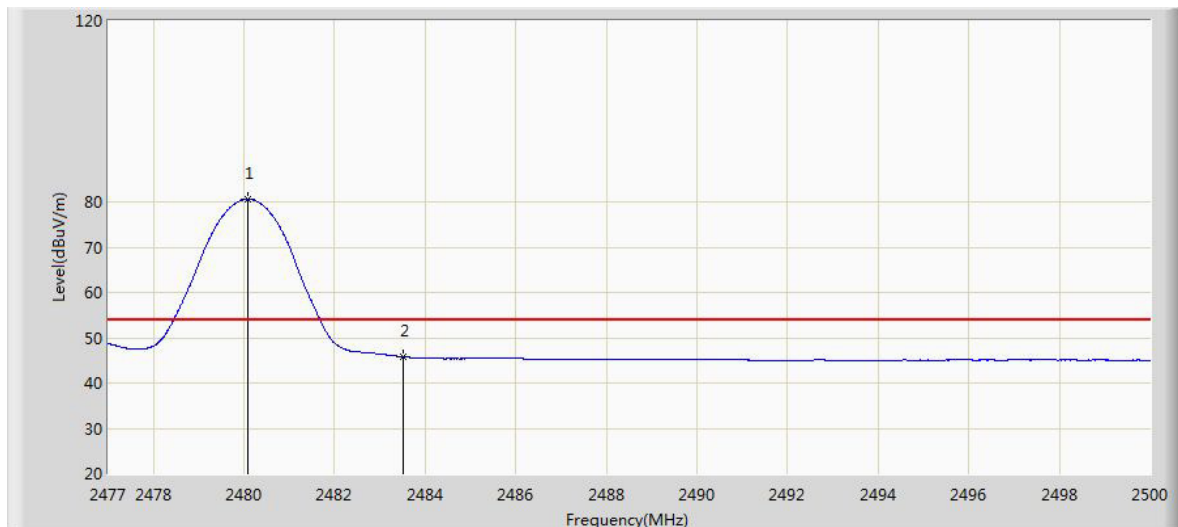
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2332.657	59.995	28.631	-14.005	74.000	31.364	PK
2390.000	58.510	27.307	-15.490	74.000	31.203	PK
2402.292	92.798	61.614	N/A	N/A	31.184	PK

Figure 15: Radiated Restricted Band Edge, 2402MHz, Vertical, AV

Table 12: Radiated Restricted Band Edge, 2402MHz, Vertical, AV

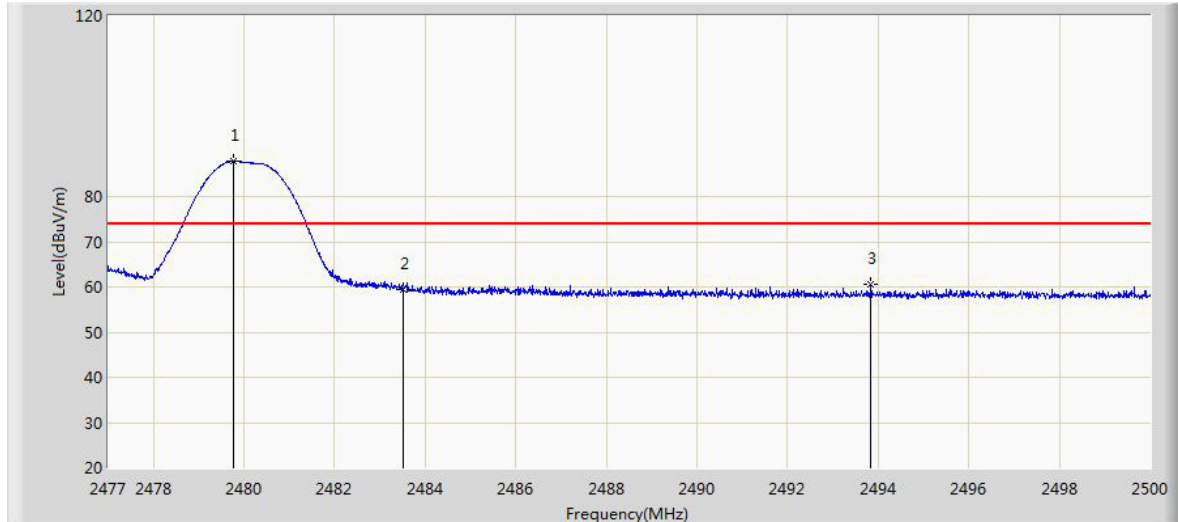
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2390.000	45.428	14.225	-8.572	54.000	31.203	AV
2401.960	91.620	60.436	N/A	N/A	31.184	AV

Figure 16: Radiated Restricted Band Edge, 2480MHz, Horizontal, PK

Table 13: Radiated Restricted Band Edge, 2480MHz, Horizontal, PK

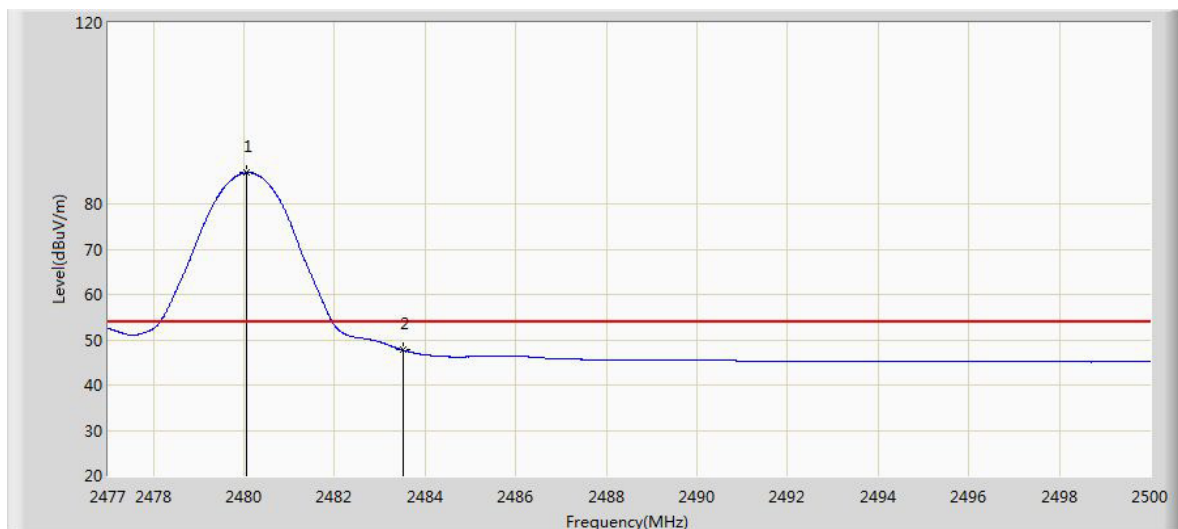
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2479.737	81.651	50.468	N/A	N/A	31.184	PK
2483.500	58.683	27.490	-15.317	74.000	31.194	PK
2487.592	59.696	28.492	-14.304	74.000	31.204	PK

Figure 17: Radiated Restricted Band Edge, 2480MHz, Horizontal, AV

Table 14: Radiated Restricted Band Edge, 2480MHz, Horizontal, AV

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2480.094	80.540	49.356	N/A	N/A	31.184	AV
2483.500	45.819	14.626	-8.181	54.000	31.194	AV

Figure 18: Radiated Restricted Band Edge, 2480MHz, Vertical, PK

Table 15: Radiated Restricted Band Edge, 2480MHz, Vertical, PK

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2479.771	87.828	56.644	N/A	N/A	31.184	PK
2483.500	59.535	28.342	-14.465	74.000	31.194	PK
2493.836	60.539	29.318	-13.461	74.000	31.220	PK

Figure 19: Radiated Restricted Band Edge, 2480MHz, Vertical, AV

Table 16: Radiated Restricted Band Edge, 2480MHz, Vertical, AV

Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2480.059	86.862	55.678	N/A	N/A	31.184	AV
2483.500	47.745	16.552	-6.255	54.000	31.194	AV

6. List of Tables

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