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Report No.: SHEM170300165601
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1 Cover Page

FCC Part 15C TEST REPORT

Application No.:	SHEM1703001656CR
Applicant:	Beijing Choice Electronic Technology Co., Ltd.
FCC ID:	WWIPR3
Equipment Under Test (EUT): NOTE: The following sample(s) was/were submitted and identified by the client as	
Product Name:	Med-Reminder
Model No.(EUT):	PR3
Standards:	FCC Part 15 Subpart C:2016
Date of Receipt:	2017-03-28
Date of Test:	2017-03-28 to 2017-05-05
Date of Issue:	2017-05-08
Test Result:	Pass*

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

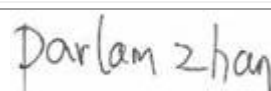
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2017-05-08	/	Original

Authorized for issue by:				
Engineer		Eddy Zong		
		Print Name		
Clerk		Susie Liu		
		Print Name		
Reviewer		Parlam Zhan		
		Print Name		



3 Test Summary

Test Item	FCC Requirement	Test method	Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203/15.247 (c)	---	PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	ANSI C63.10 (2013) Section 6.2	N/A
Minimum 6dB Bandwidth	FCC Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 (2013) Section 11.8.1	PASS
Conducted Peak Output Power	FCC Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 (2013) Section 11.9.1.2	PASS
Power Spectrum Density	FCC Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 (2013) Section 11.10.2	PASS
RF Conducted Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013) Section 11.11&11.13.3.2	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.209&15.205	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS

N/A: Not applicable, please refer to Section 7.3 of this report for details.

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5 General Information

5.1 Client Information

Applicant:	Beijing Choice Electronic Technology Co., Ltd.
Address of Applicant:	Room 4104, No. A12 Yuquan Road, Haidian District, 100143 Beijing, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Beijing Choice Electronic Technology Co., Ltd.
Address of Manufacturer:	Room 4104, No. A12 Yuquan Road, Haidian District, 100143 Beijing, PEOPLE'S REPUBLIC OF CHINA
Factory:	Beijing Choice Electronic Technology Co., Ltd.
Address of Factory:	Room 4104, No. A12 Yuquan Road, Haidian District, 100143 Beijing, PEOPLE'S REPUBLIC OF CHINA

5.2 General Description of E.U.T.

Product Description:	Portable product with BT function
Brand Name:	iChoice
Battery:	DC 3.7V rechargeable Li-on battery

5.3 Technical Specifications

Operation Frequency:	2402MHz-2480MHz
Bluetooth Version:	BT 4.0 Single mode
Modulation Type:	GFSK
Number of Channel:	40
Antenna Type	Ceramic antenna
Antenna Gain	0 dBi

5.4 Description of Support Units

The EUT has been tested independently.

5.5 Details of Test Mode

Test Mode	Description of Test Mode
Engineering mode	Using test software to control EUT working in continuous transmitting, and select channel and modulation type

5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

5.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.

5.8 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	$< \pm 1 \times 10^{-5}$
2	Total RF power, conducted	$< \pm 1.5 \text{ dB}$
3	RF power density, conducted	$< \pm 3 \text{ dB}$
4	Spurious emissions, conducted	$< \pm 3 \text{ dB}$
5	All emissions, radiated	$< \pm 6 \text{ dB}$ (Below 1GHz) $< \pm 6 \text{ dB}$ (Above 1GHz)
6	Temperature	$< \pm 1^{\circ}\text{C}$
7	Humidity	$< \pm 5 \%$
8	DC and low frequency voltages	$< \pm 3 \%$

6 Equipments List

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Power meter	Rohde & Schwarz	NRP	101641	2017-01-14	2018-01-13
2	Power Sensor	Rohde & Schwarz	NRP-Z22	101096	2016-08-06	2017-08-05
3	Spectrum Analyzer	Rohde & Schwarz	FSP-30	2705121009	2017-01-14	2018-01-13
4	EMI test receiver	Rohde & Schwarz	ESU40	100109	2017-02-13	2018-01-15
5	Active Loop Antenna (9kHz to 30MHz)	Rohde & Schwarz	FMZB1519	1519-034	2017-02-13	2018-01-15
6	Broadband UHF-VHF ANTENNA (25MHz to 2GHz)	SCHWARZBECK	VULB9168	9168-313	2017-02-13	2018-01-15
7	Ultra broadband antenna (25MHz to 3GHz)	Rohde & Schwarz	HL562	100227	2016-08-30	2017-08-29
8	Horn Antenna (1GHz to 18GHz)	Rohde & Schwarz	HF906	100284	2017-02-13	2018-01-15
9	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	9120D-679	2017-02-13	2018-01-15
10	Horn Antenna (14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	BBHA917-0373	2017-02-13	2018-01-15
11	Pre-amplifier (9KHz – 2GHz)	LNA6900	TESEQ	71033	/	/
12	Pre-amplifier (1GHz – 26.5GHz)	SCHWARZBECK	SCU-F0118-G40- BZ4-CSS(F)	10001	2017-01-14	2018-01-13
13	Pre-amplifier (14GHz – 40GHz)	SCHWARZBECK	SCU-F1840-G35- BZ3-CSS(F)	10001	2017-01-14	2018-01-13
14	Tunable Notch Filter	Wainwright instruments GmbH	WRCT800.0/880. 0-0.2/40-5SSK	170397 169777 169780 192507	/	/
15	High pass Filter	FSCW	HP 12/2800-5AA2	19A45-02	/	/
16	High-low temperature cabinet	Suzhou Zhihe	TL-40	50110050	2016-09-11	2017-09-10
17	AC power stabilizer	WOCEN	6100	51122	2017-01-14	2018-01-13
18	DC power	QJE	QJ30003SII	3573/4/3	2017-01-14	2018-01-13
19	Signal Generator (Interferer)	Rohde & Schwarz	SMR40	100555	2016-08-13	2017-08-12
20	Signal Generator (Blocker)	Rohde & Schwarz	SMJ100A	101394	2017-01-14	2018-01-13
21	Splitter	Anritsu	MA1612A	M12265	/	/
22	Coupler	e-meca	803-S-1	900-M01	/	/

7 Antenna Requirement

7.1 E.U.T. test conditions

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:	Temperature:	20.0 -25.0 °C
	Humidity:	35-75 % RH
	Atmospheric Pressure:	99.2 -102 kPa

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.

Test frequency is the lowest channel: 0 channel (2402MHz), middle channel: 19 channel (2440MHz) and highest channel: 40 channel (2480MHz) with fixed at channel.

7.2 Antenna Requirement

Standard requirement:

15.203 requirement:

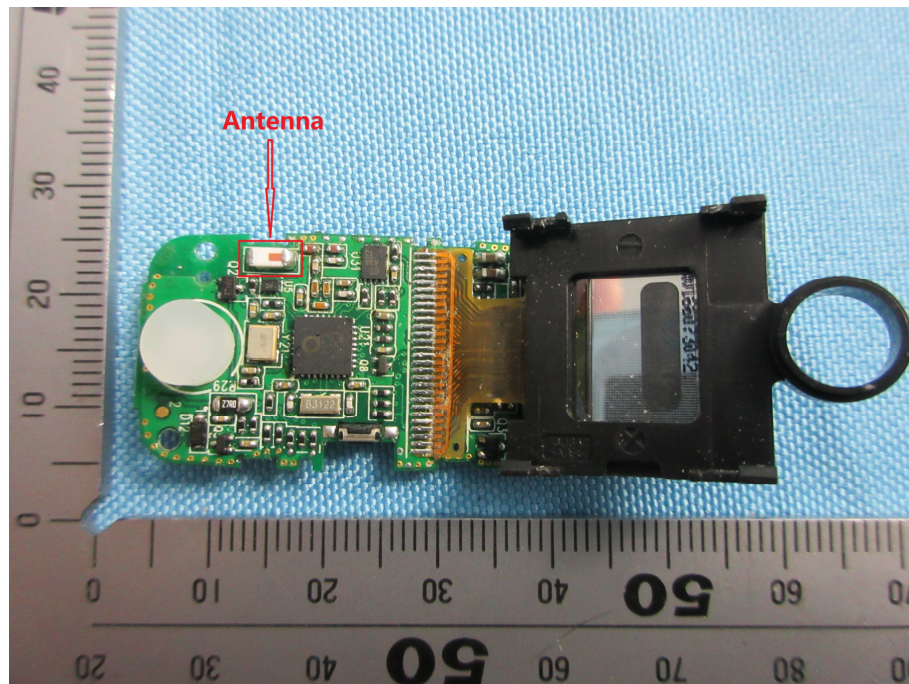
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is ceramic antenna and no consideration of replacement. The gain of the antenna is less than 0 dBi.



7.3 Conducted Emissions on Mains Terminals

Frequency Range: 150 KHz to 30 MHz

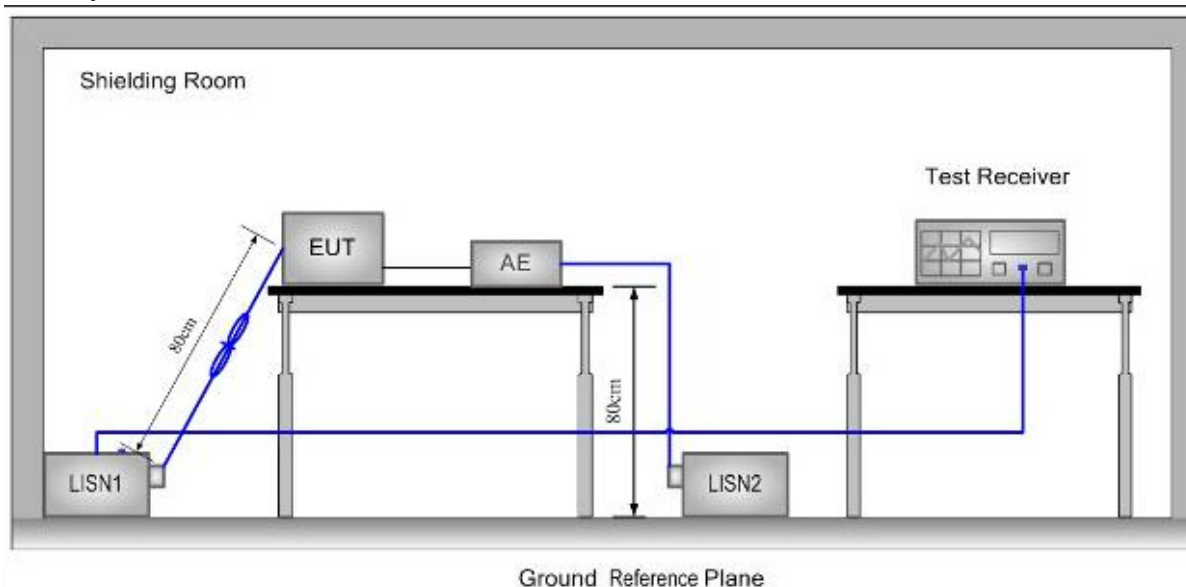
Limit:

Frequency range MHz	Class B Limits: dB (μV)	
	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

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test Setup:



Test Procedure:

- 1) The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.



Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Pretest under all modes; choose the worst case mode (in Middle channel) record on the report. Please see the attached Quasi-peak and Average test results.

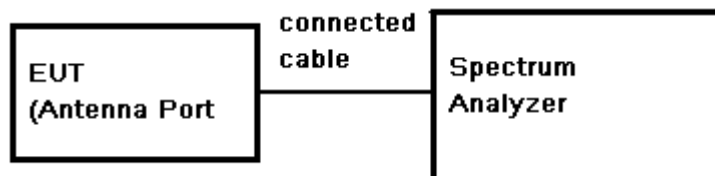
Test Result: Pass

Test Data:

Note: The device can't operated during charging mode; therefore the AC Conducted Emission test is not applicable.

7.4 6dB Occupied Bandwidth

Test Configuration:



Test Procedure:

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3). Set the spectrum analyzer as RBW=100KHz, VBW≥3* RBW, Span=4MHz, Sweep=auto
- 4). Mark the peak frequency and -6dB (upper and lower) frequency.
- 5). Repeat above procedures until all frequency measured was complete.

Limit:

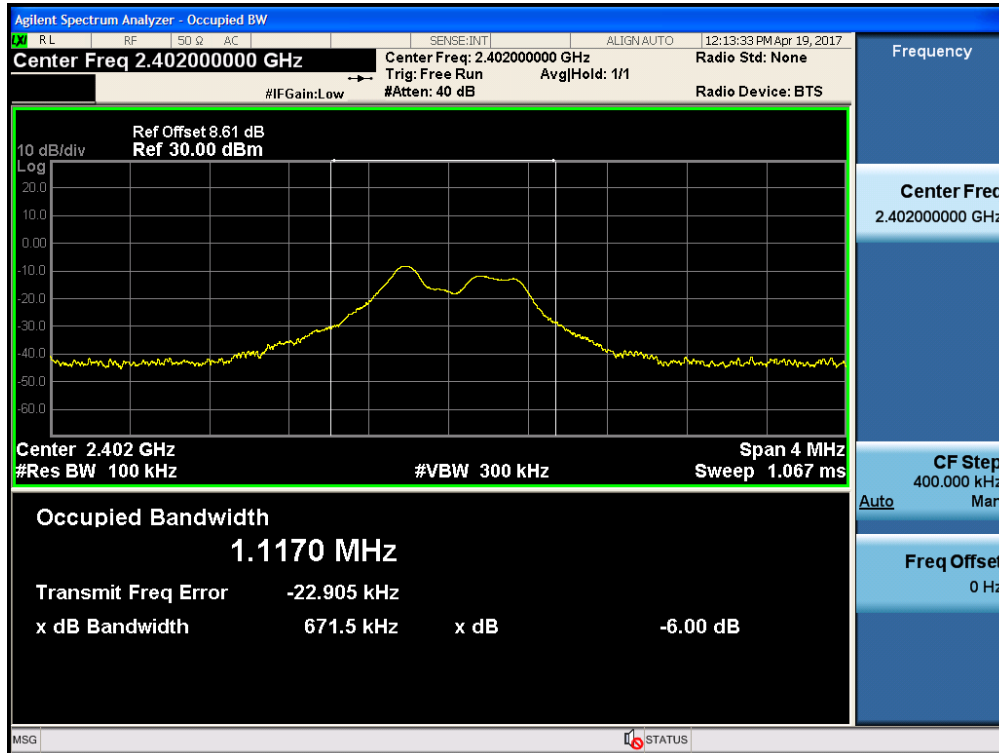
≥ 500 kHz

Test date:

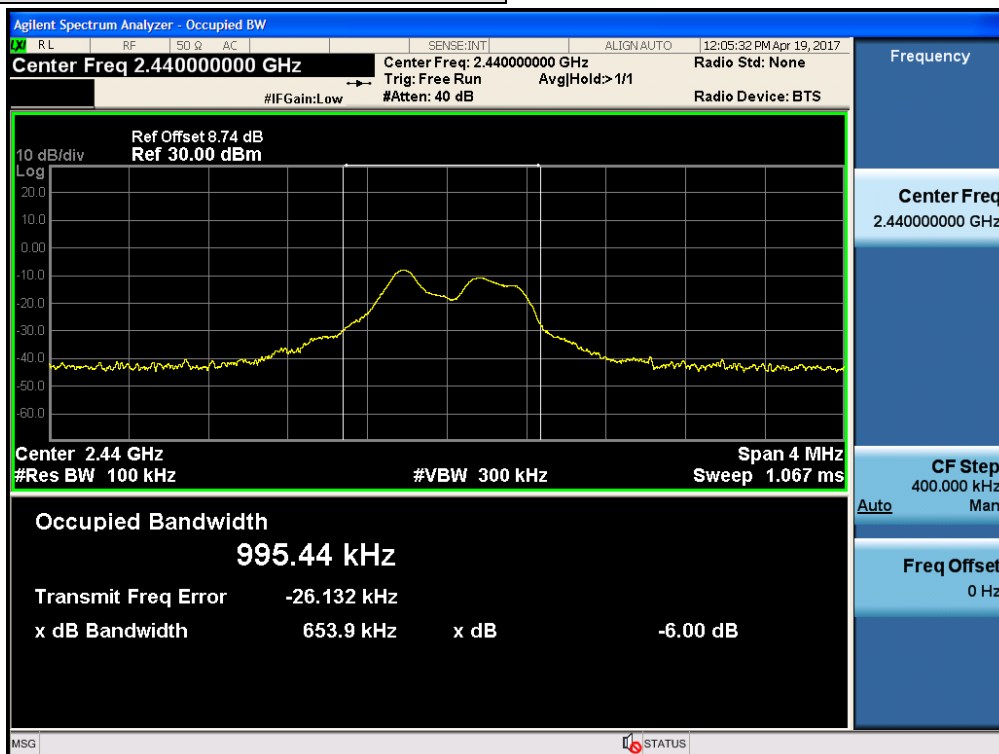
Test Mode	Test Channel	EBW[MHz]	Limit	Verdict
BLE	2402	0.6715	0.5	PASS
BLE	2440	0.6539	0.5	PASS
BLE	2480	0.6533	0.5	PASS

Test plot as follows:

Test channel: Lowest

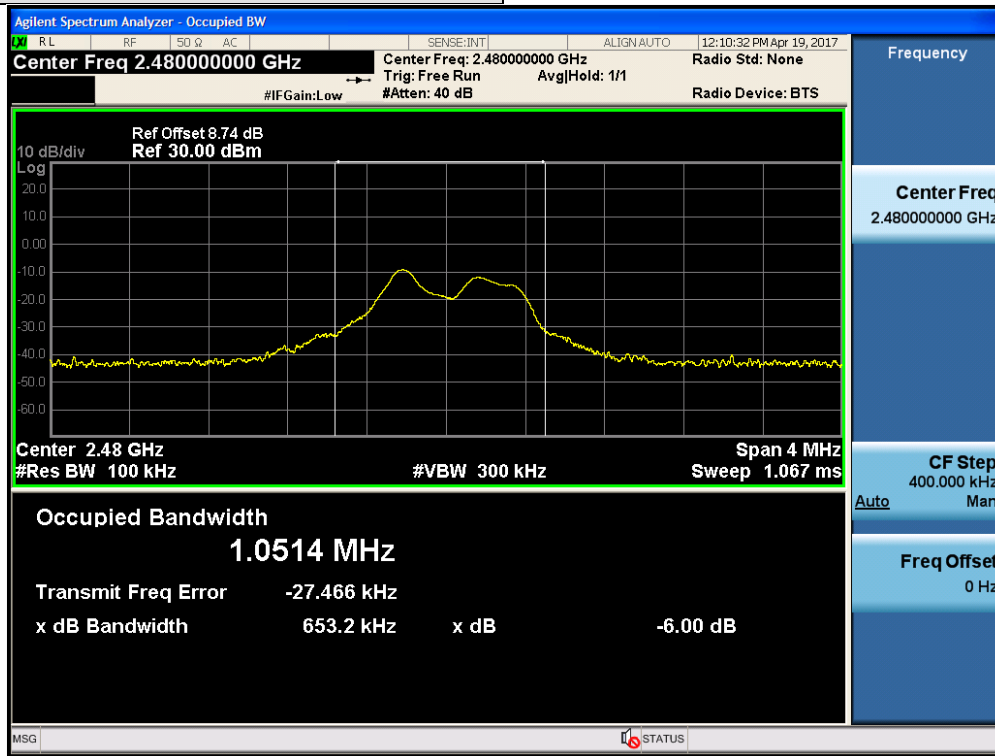


Test channel: Middle



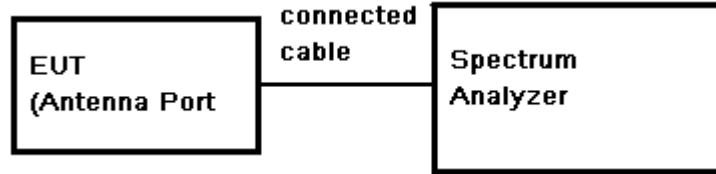


Test channel: Highest



7.5 Conducted Peak Output Power

Test Configuration:



Test Procedure:

- 1) Place the EUT on the table and set it in transmitting mode.
- 2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.
- 3) Set the spectrum analyzer: RBW = 3 MHz, VBW = 8 MHz, Span= fully encompass the bandwidth, Sweep = auto; Detector Function = Peak Trace mode=max hold
- 4) Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5) Record the max. Power reading.
- 6) Repeat above procedures until all the frequency measured were complete.

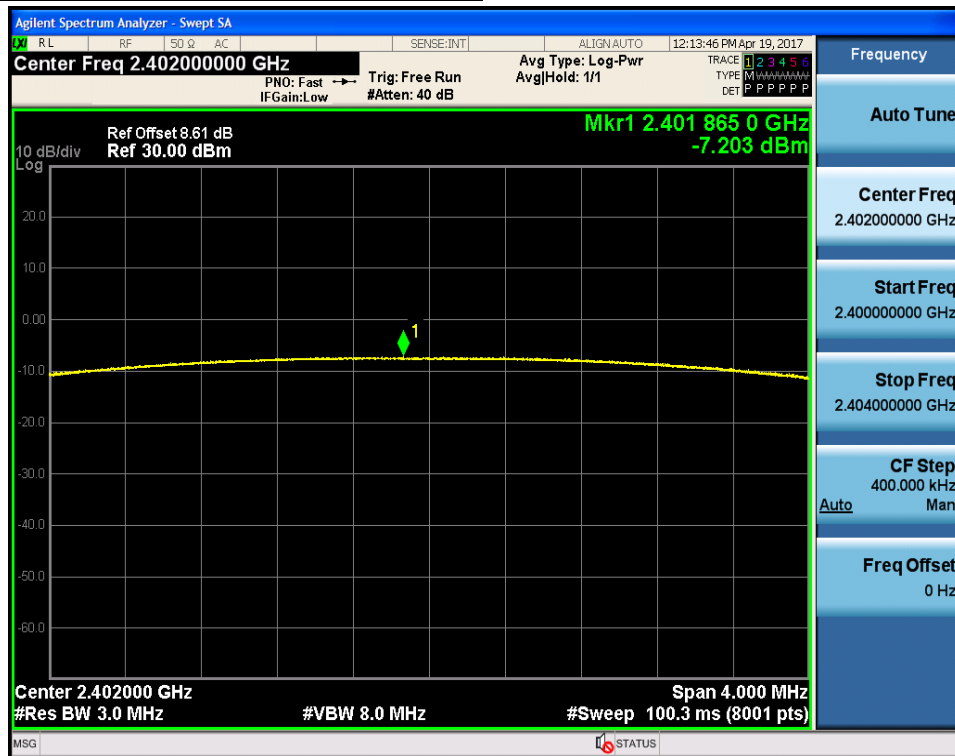
Test Limit: 30dBm

Test data:

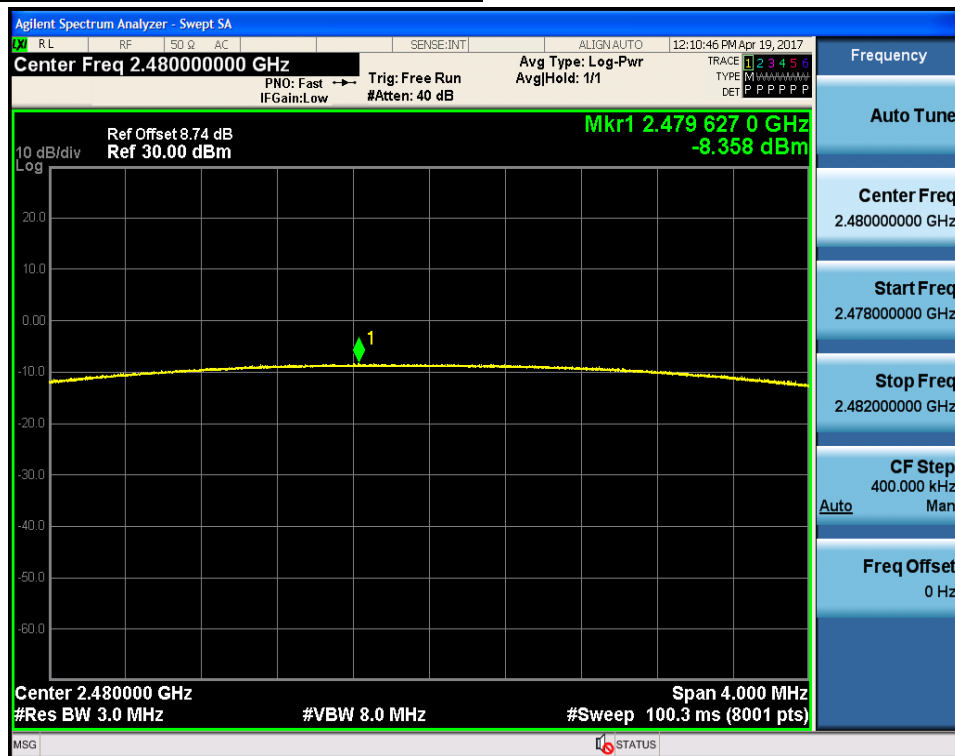
Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	-7.203	30	PASS
BLE	2440	-8.358	30	PASS
BLE	2480	-7.328	30	PASS

Test plot as follows:

Test channel: Lowest



Test channel: Middle



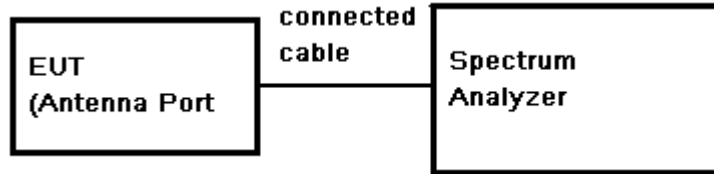


Test channel: Highest



7.6 Peak Power Spectral Density

Test Configuration:



Test Procedure:

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: Center Frequency= Channel Frequency, RBW = 3 kHz VBW = 10 kHz. Span= 1.5 times the DTS bandwidth, Sweep = auto; Detector = Peak; Trace mode=max hold, Trace=Max hold.
- 3) Use the peak marker function to determine the maximum amplitude level within the RBW.
- 4) Record the marker level for the particular mode.
- 5) Repeat these steps for other channel and modes.

Test Limit:

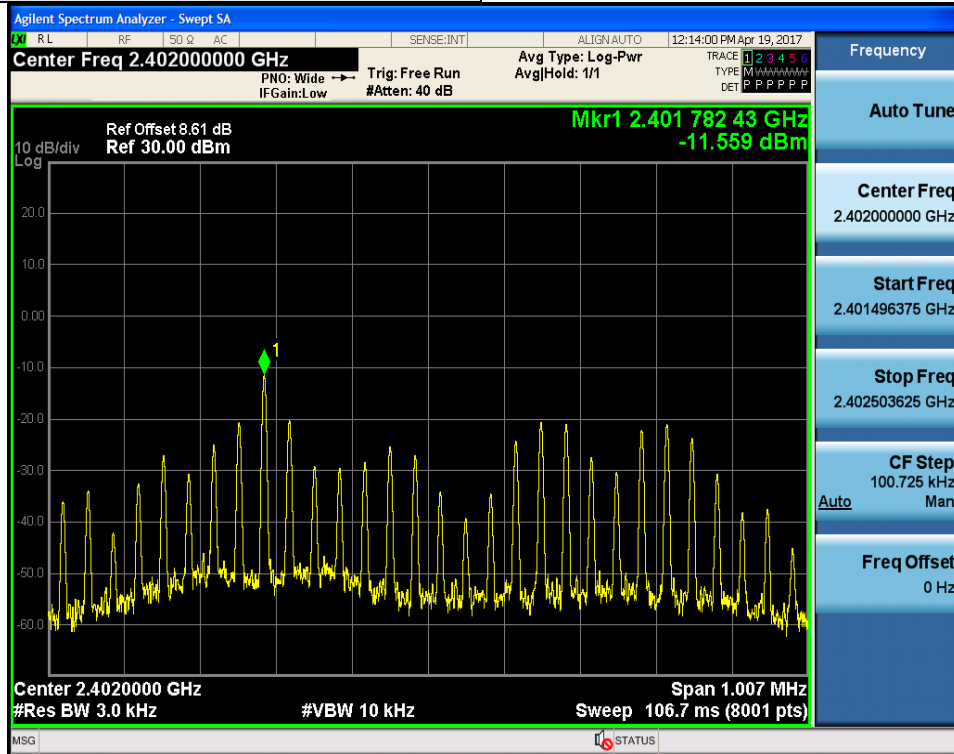
8dBm/3kHz

Test data:

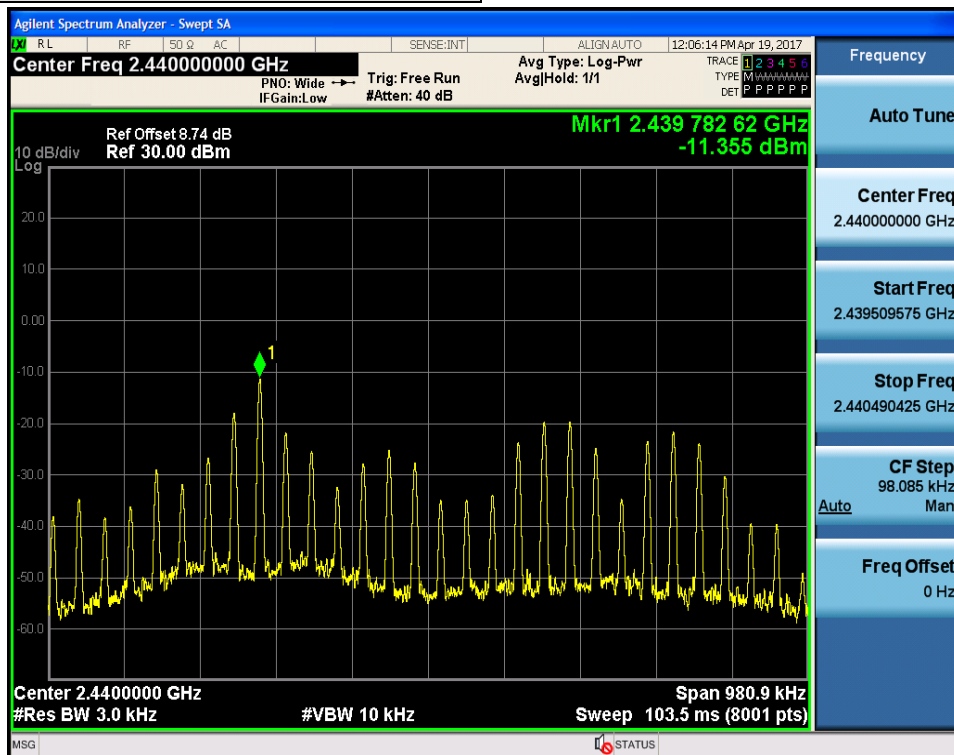
Test Mode	Test Channel	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2440	-11.559	8.00	PASS
BLE	2480	-11.355	8.00	PASS
BLE	2402	-12.956	8.00	PASS

Test plot as follows:

Test channel: Lowest

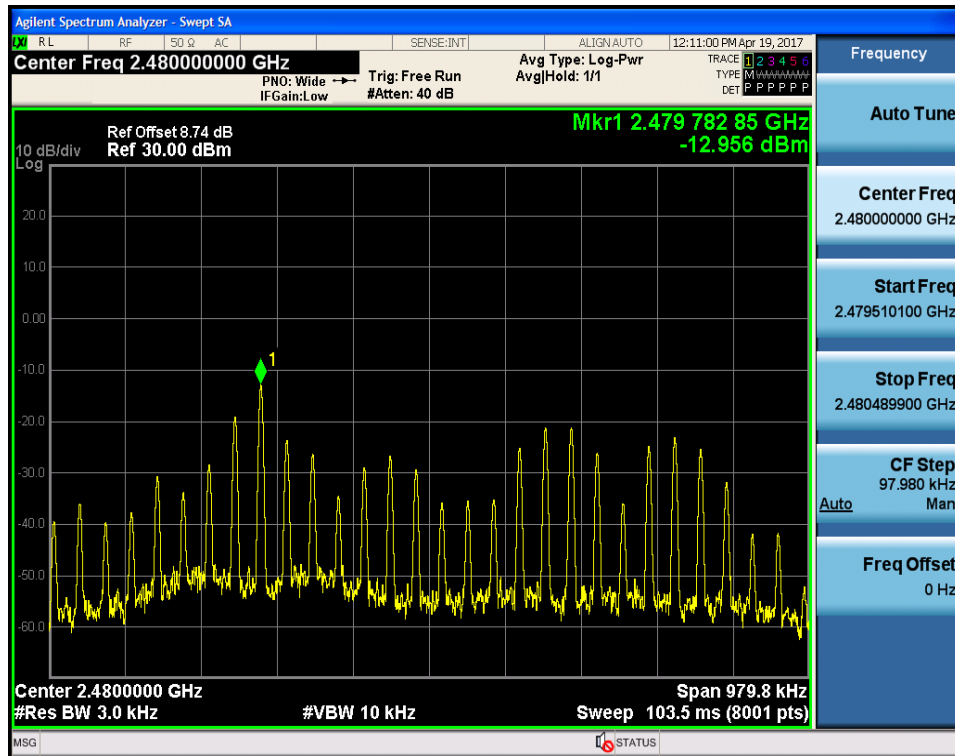


Test channel: Middle



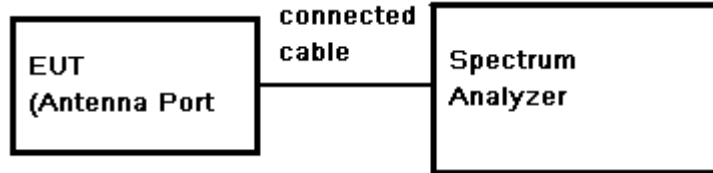


Test channel: Highest



7.7 Conducted Spurious Emissions and Band edge

Test Configuration:



Test Procedure:

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW = 100 KHz. VBW = 300 KHz.
Sweep = auto; Detector Function = Peak (Max. hold).

Limit:

- (d) 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.

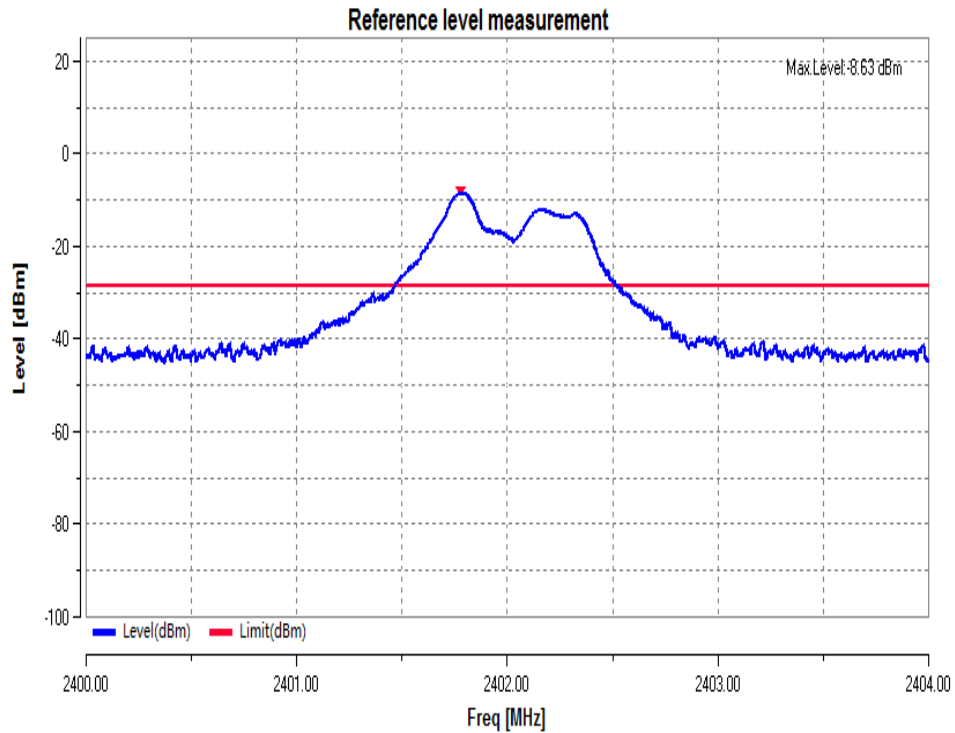
7.7.1 Conducted Spurious Emissions

Test plot as follows:

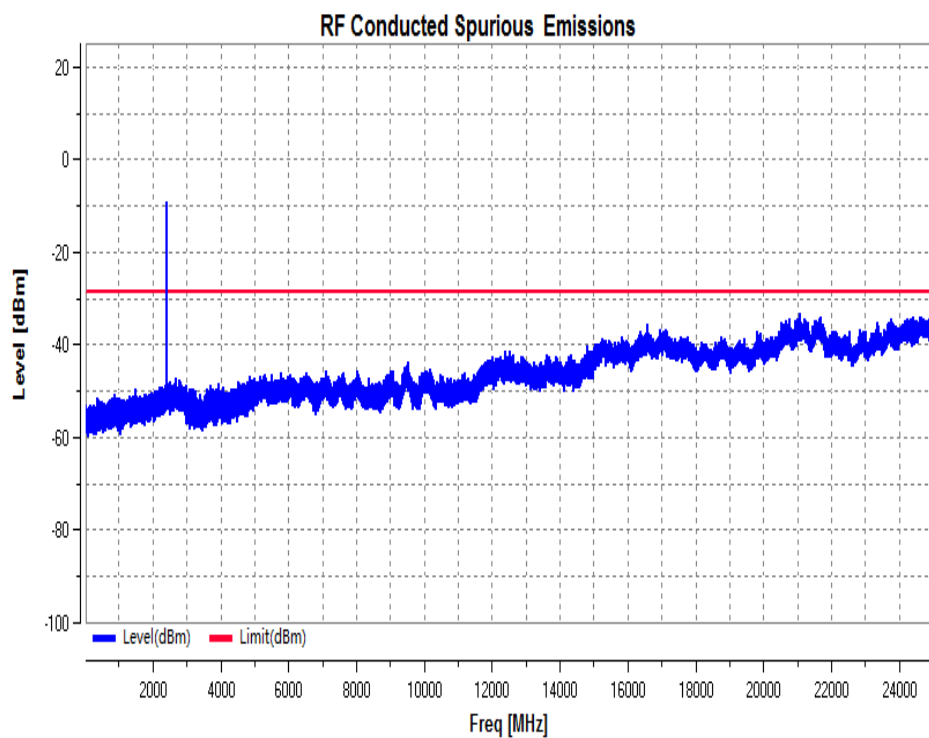
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	3000	100	300	-8.63	-47.095	-28.63	PASS
BLE	2402	3000	5000	100	300	-8.63	-46.872	-28.63	PASS
BLE	2402	5000	10000	100	300	-8.63	-43.782	-28.63	PASS
BLE	2402	10000	15000	100	300	-8.63	-40.208	-28.63	PASS
BLE	2402	15000	25000	100	300	-8.63	-33.095	-28.63	PASS
BLE	2440	30	3000	100	300	-8.105	-47.610	-28.105	PASS
BLE	2440	3000	5000	100	300	-8.105	-47.071	-28.105	PASS
BLE	2440	5000	10000	100	300	-8.105	-44.017	-28.105	PASS
BLE	2440	10000	15000	100	300	-8.105	-41.362	-28.105	PASS
BLE	2440	15000	25000	100	300	-8.105	-33.046	-28.105	PASS
BLE	2480	30	3000	100	300	-9.265	-47.404	-29.265	PASS
BLE	2480	3000	5000	100	300	-9.265	-44.603	-29.265	PASS
BLE	2480	5000	10000	100	300	-9.265	-44.087	-29.265	PASS
BLE	2480	10000	15000	100	300	-9.265	-41.503	-29.265	PASS
BLE	2480	15000	25000	100	300	-9.265	-33.218	-29.265	PASS

Test channel: Lowest

Pref

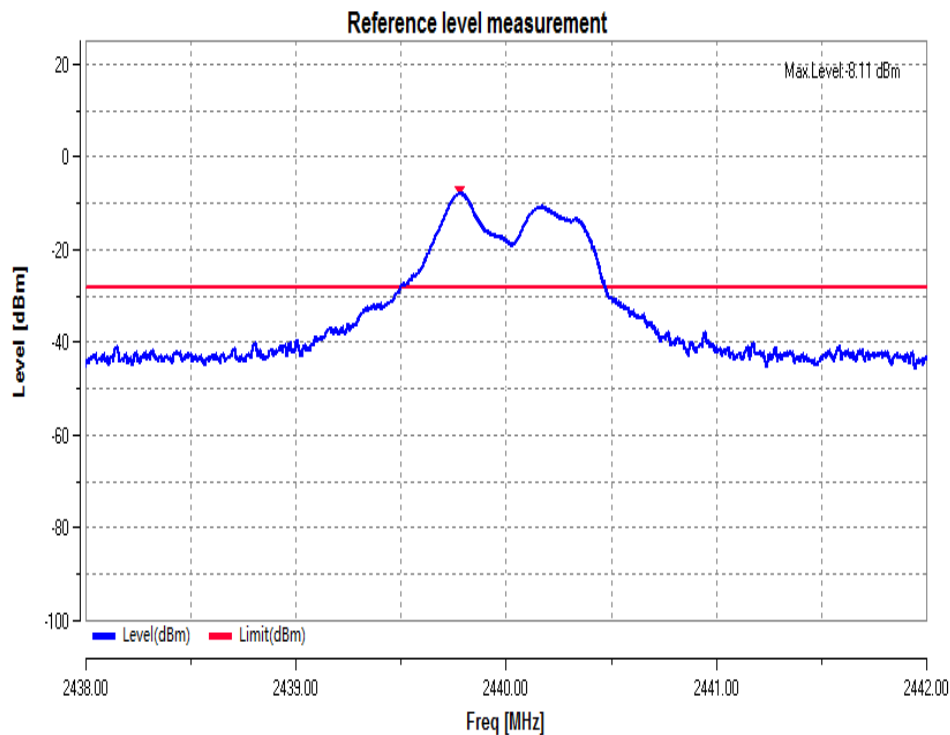


CSE_1

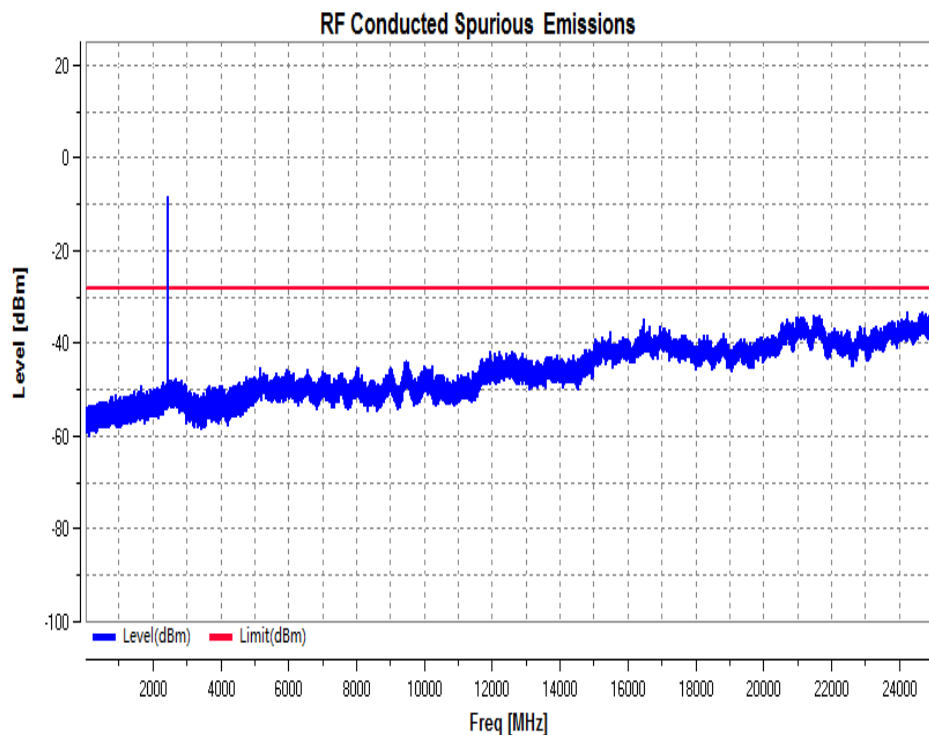


Test channel: Middle

Pref

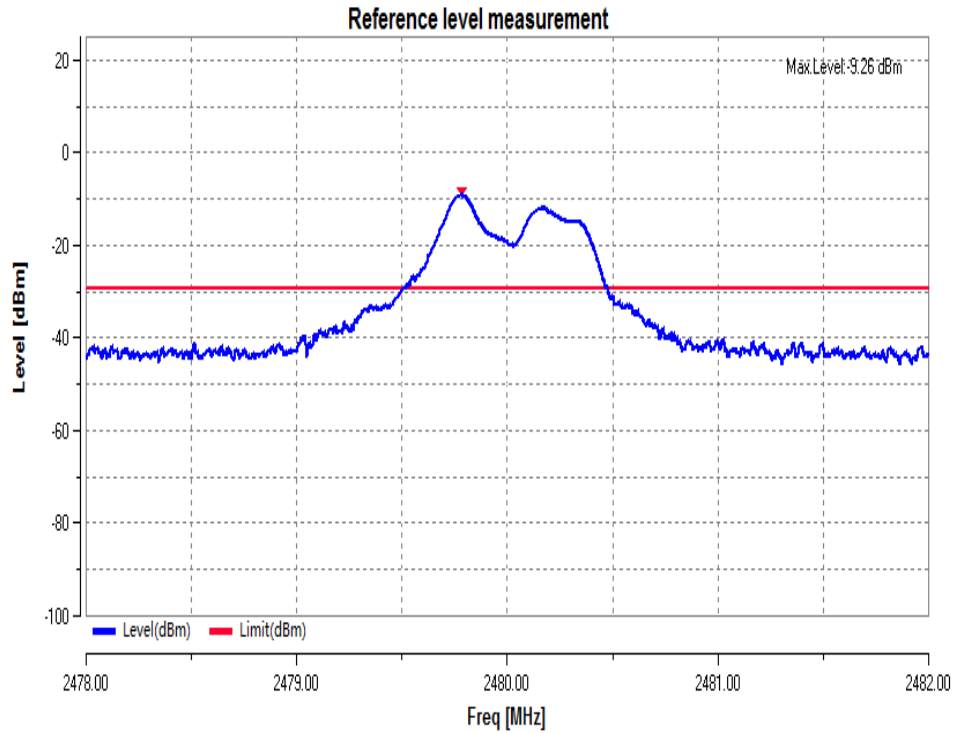


CSE_1

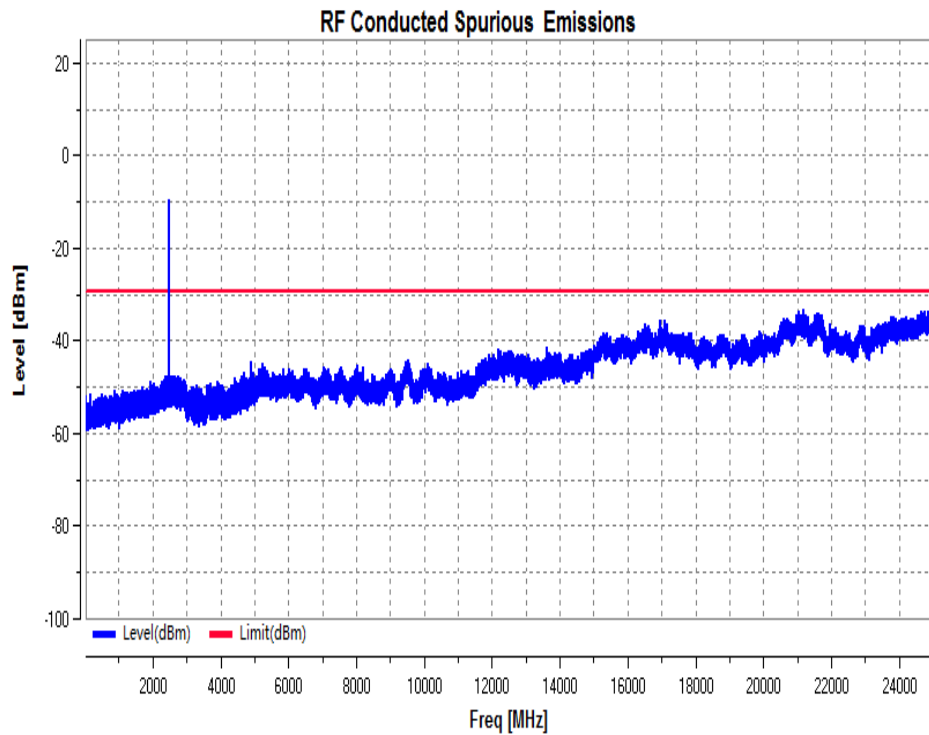


Test channel: Highest

Pref



CSE_1

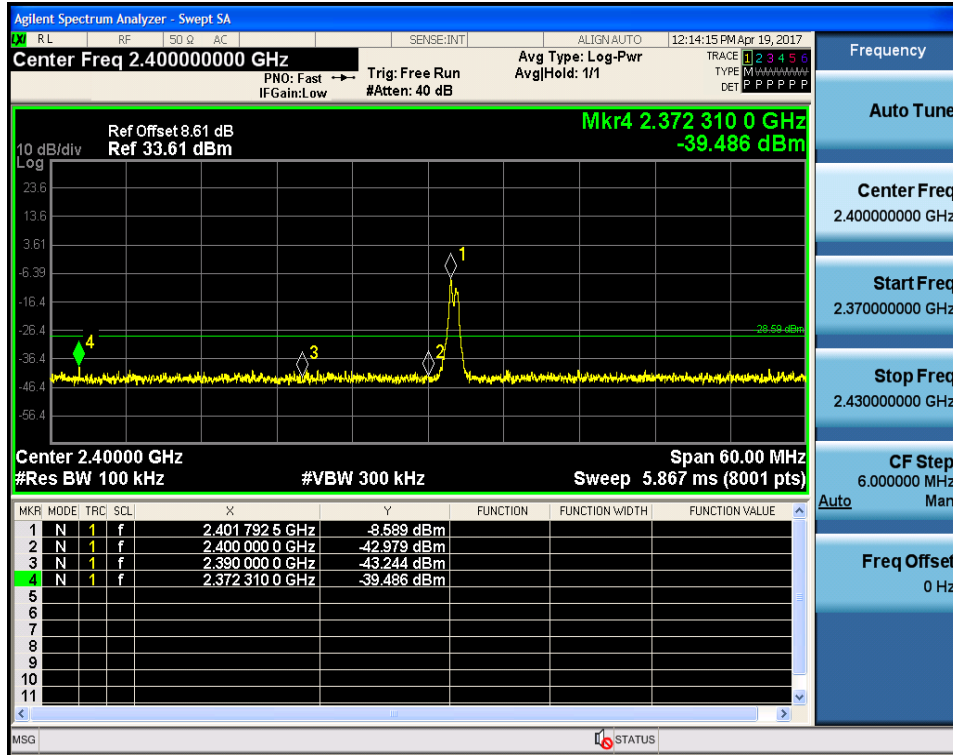


7.7.2 Conducted Band-edge

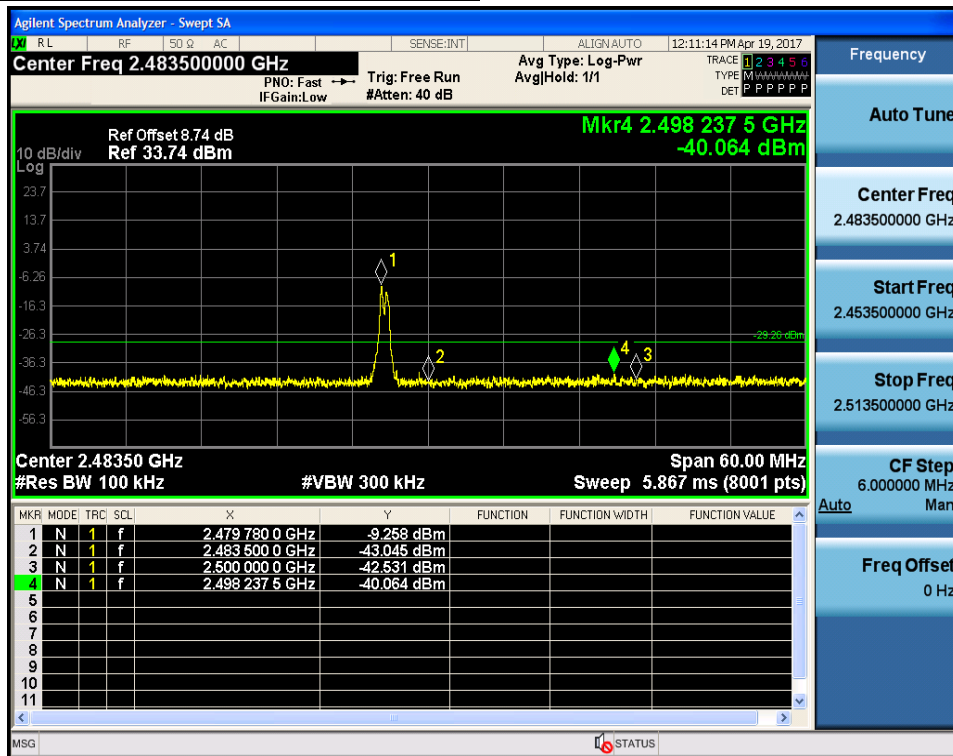
Test plot as follows:

Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	-8.589	-39.486	-28.59	PASS
BLE	2480	-9.258	-40.064	-29.26	PASS

Test channel: Lowest



Test channel: Highest



7.8 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m
Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz-30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Limit (dBuV/m)
0.009MHz-0.490MHz	128.5 ~ 93.8
0.490MHz-1.705MHz	73.8 ~63.0
1.705MHz-30MHz	69.5
30MHz-88MHz	40.0
88MHz-216MHz	43.5
216MHz-960MHz	46.0
960MHz-1GHz	54.0
Above 1GHz	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Configuration: Receive antenna scan height 1 m - 4 m. polarization Vertical / Horizontal

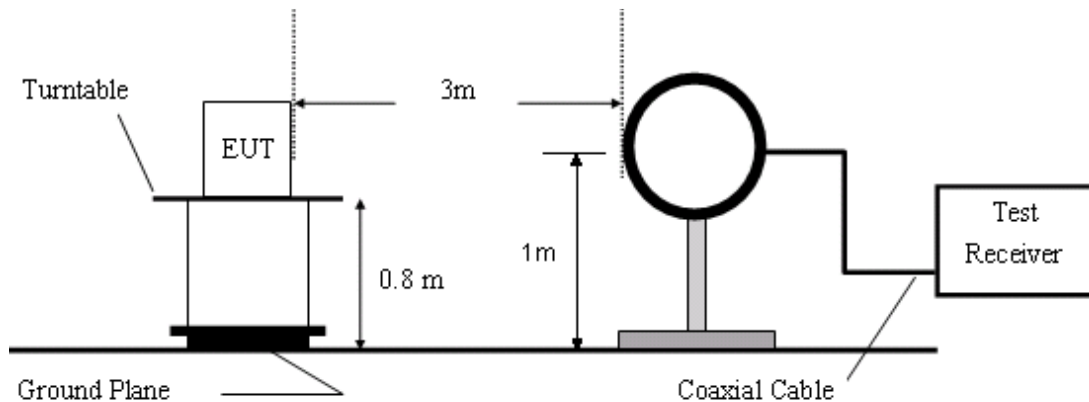


Figure1. Below 30MHz radiated emissions test configuration

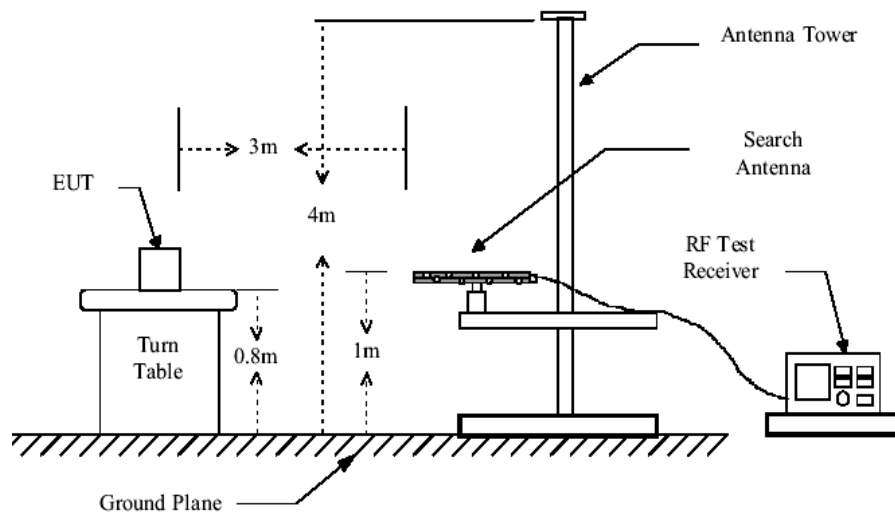


Figure 2. 30MHz to 1GHz radiated emissions test configuration

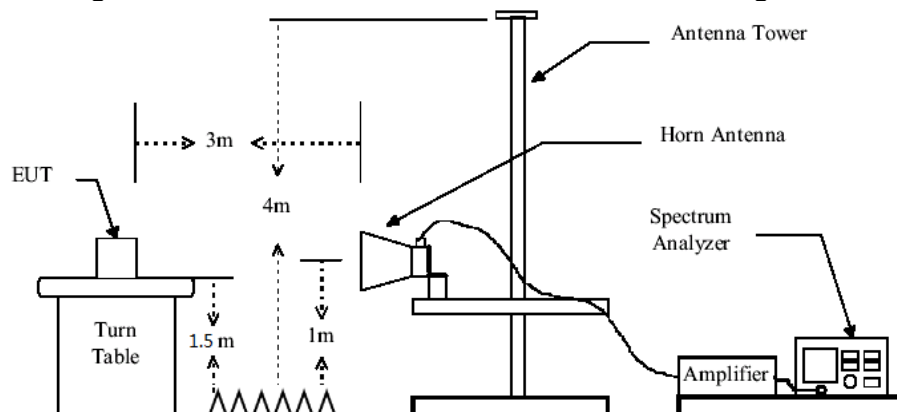


Figure 3. Above 1GHz radiated emissions test configuration

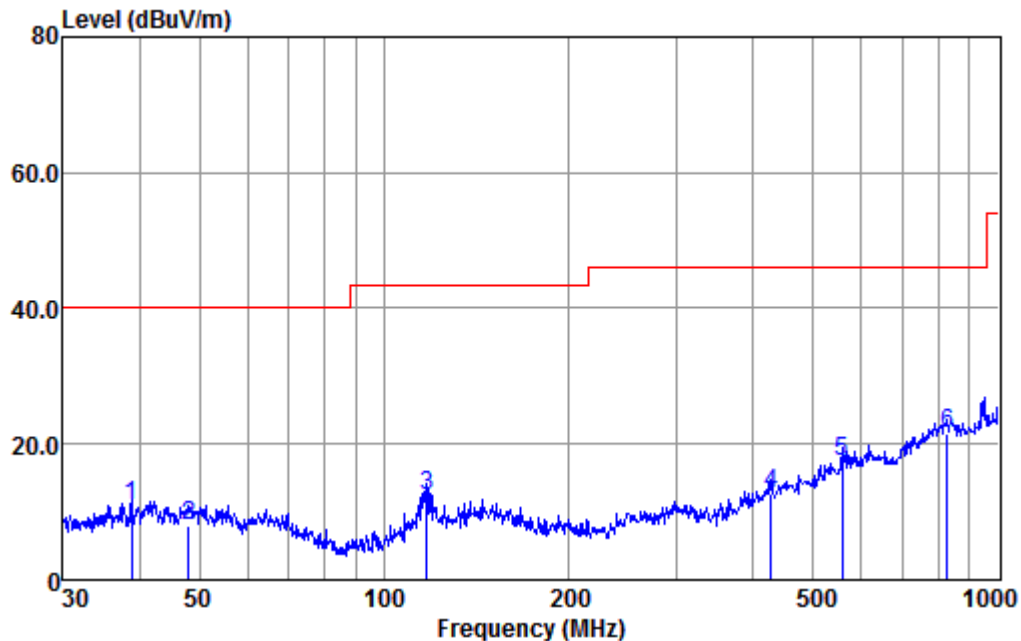
- Test Procedure:**
- 1) The procedure used was ANSI Standard C63.10. The receiver was scanned from 9 KHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
 - 2) Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
 - 3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
 - a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
 - b) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
 - 4) No spurious emissions were detected within 20dB of limit below 30MHz.

Test Result: Pass

7.8.1 Radiated Spurious Emissions

30MHz-1GHz:

Polarization: Horizontal



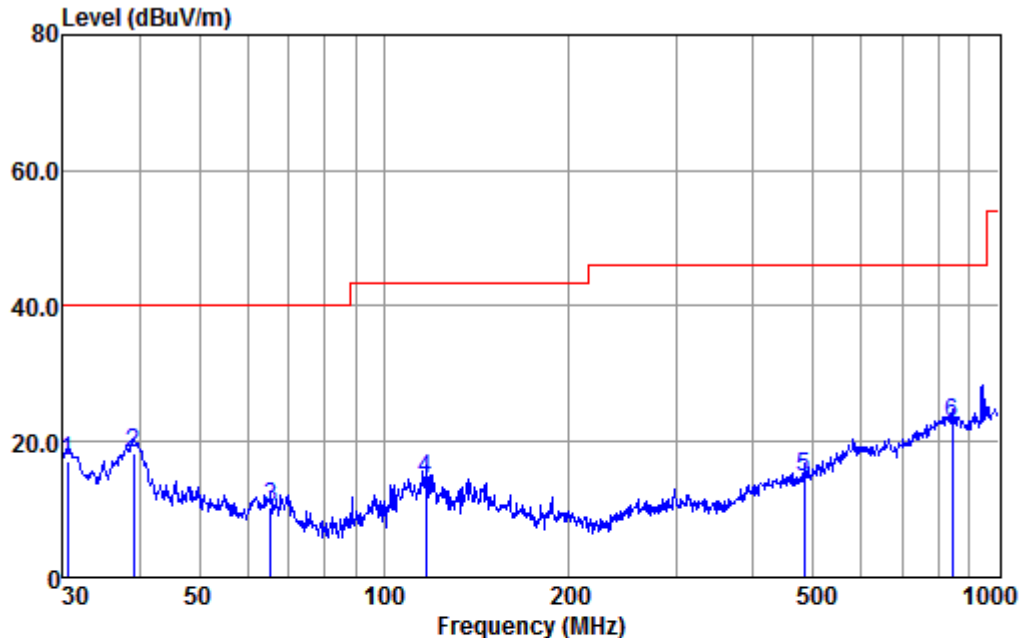
Condition : HORIZONTAL

EUT/Project: 1656CR

Test mode : a

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	38.75	26.05	13.38	0.22	28.83	10.82	40.00	-29.18 QP
2	47.99	22.62	13.90	0.25	28.80	7.97	40.00	-32.03 QP
3	117.36	28.80	11.57	0.53	28.60	12.30	43.50	-31.20 QP
4	426.52	24.68	15.91	1.04	28.88	12.75	46.00	-33.25 QP
5	556.77	25.83	19.50	1.28	29.23	17.38	46.00	-28.62 QP
6 q	827.49	24.83	23.77	2.15	29.06	21.69	46.00	-24.31 QP

Polarization: Vertical



Condition : VERTICAL
EUT/Project: 1656CR
Test mode : a

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	30.53	33.23	12.56	0.18	28.90	17.07	40.00	-22.93 QP
2 q	39.16	33.54	13.42	0.22	28.80	18.38	40.00	-21.62 QP
3	65.34	26.26	12.60	0.32	28.80	10.38	40.00	-29.62 QP
4	116.95	31.02	11.54	0.53	28.60	14.49	43.50	-29.01 QP
5	483.91	25.87	16.83	1.16	29.17	14.69	46.00	-31.31 QP
6	842.13	26.05	23.64	2.21	29.04	22.86	46.00	-23.14 QP

Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

Above 1GHz:

Lowest Channel(2402MHz)

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	4804	37.74	6.18	43.92	54	-10.08	peak	Horizontal
2	7206	34.21	10.63	44.84	54	-9.16	peak	Horizontal
3	9608	34.94	14.38	49.32	54	-4.68	peak	Horizontal
4	4804	39.4	6.18	45.58	54	-8.42	peak	Vertical
5	7206	37.02	10.63	47.65	54	-6.35	peak	Vertical
6	9608	37.29	14.38	51.67	54	-2.33	peak	Vertical

Middle Channel(2440MHz)

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	4880	36.16	6.97	43.13	54	-10.87	peak	Horizontal
2	7320	37.13	11.12	48.25	54	-5.75	peak	Horizontal
3	9760	35.97	14.35	50.32	54	-3.68	peak	Horizontal
4	4880	36.27	6.97	43.24	54	-10.76	peak	Vertical
5	7320	37.24	11.12	48.36	54	-5.64	peak	Vertical
6	9760	33.9	14.35	48.25	54	-5.75	peak	Vertical

Highest Channel(2480MHz)

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	4960	39.73	7.49	47.22	54	-6.78	peak	Horizontal
2	7440	38.78	11.65	50.43	54	-3.57	peak	Horizontal
3	9920	37.55	14.4	51.95	54	-2.05	peak	Horizontal
4	4960	36.43	7.49	43.92	54	-10.08	peak	Vertical
5	7440	37.51	11.65	49.16	54	-4.84	peak	Vertical
6	9920	33.81	14.4	48.21	54	-5.79	peak	Vertical

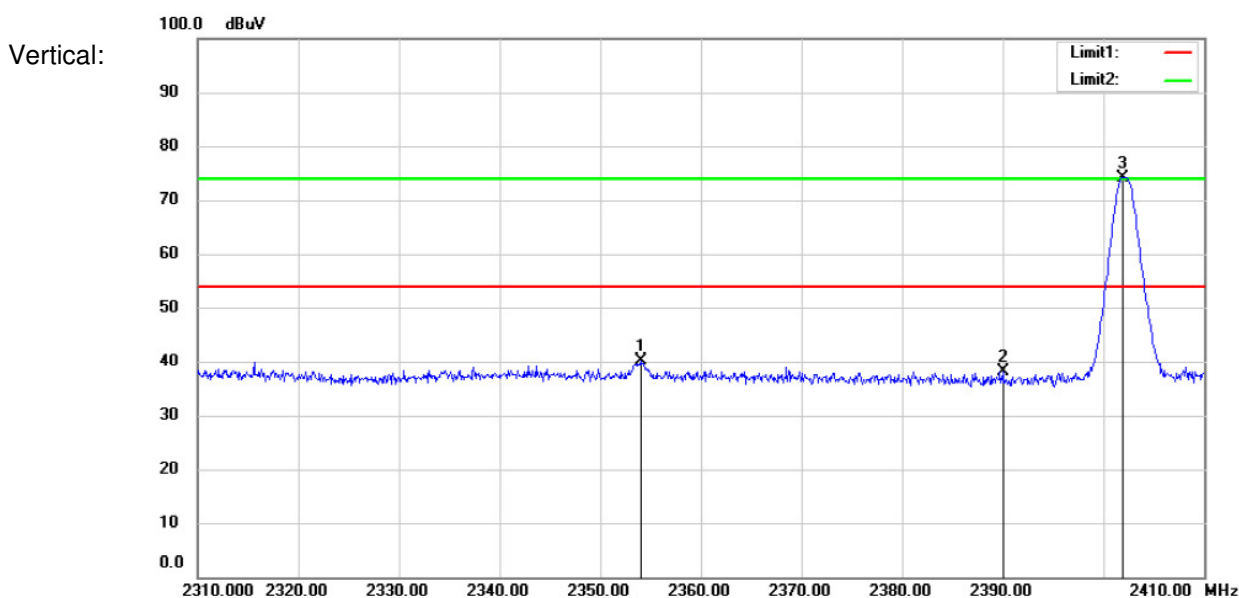
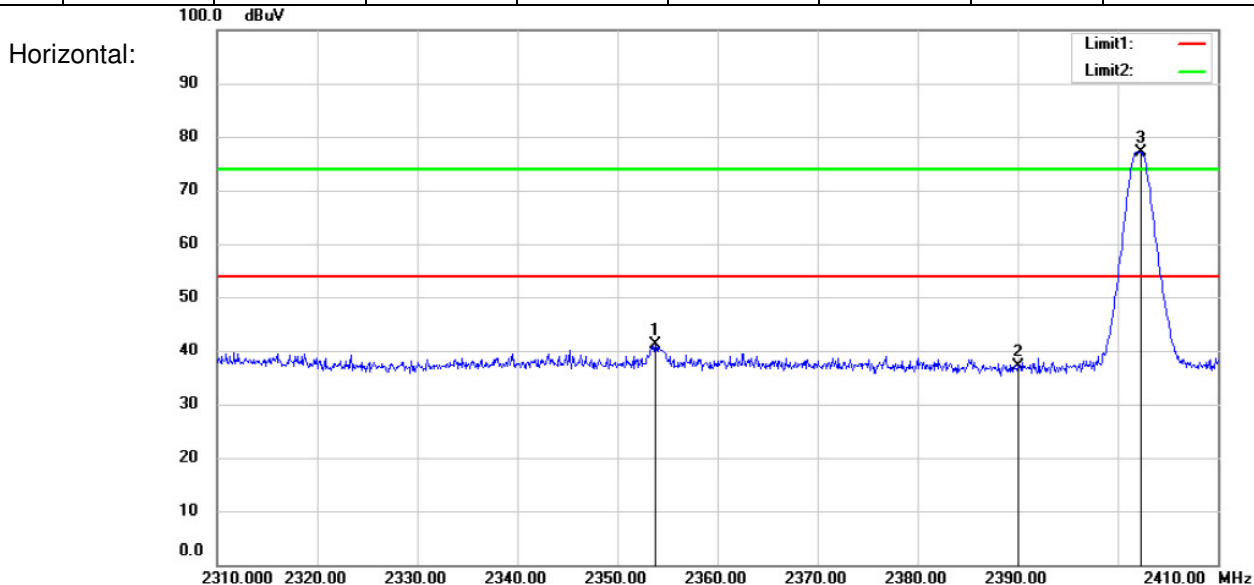
Remark: 1) Emission = Receiver Reading + Factor

2) Factor = Antenna Factor + Cable Loss + Pre-amplifier Factor.

3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

7.8.2 Radiated Band-edge Lowest Channel (2402MHz)

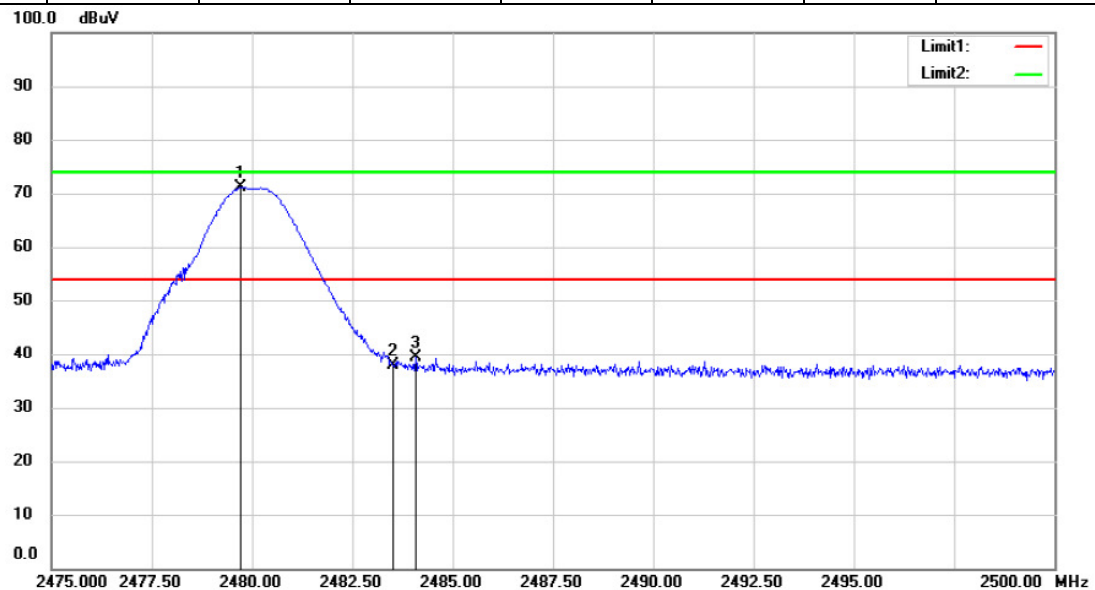
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2353.8	44.92	-3.77	41.15	54	-12.85	Peak	Horizontal
2	2390	41.06	-3.89	37.17	54	-16.83	Peak	Horizontal
3	2402.3	80.96	-3.92	77.04	54	23.04	Peak	Horizontal
1	2354	43.9	-3.78	40.12	54	-13.88	Peak	Vertical
2	2390	41.92	-3.89	38.03	54	-15.97	Peak	Vertical
3	2401.9	78.05	-3.91	74.14	54	20.14	Peak	Vertical



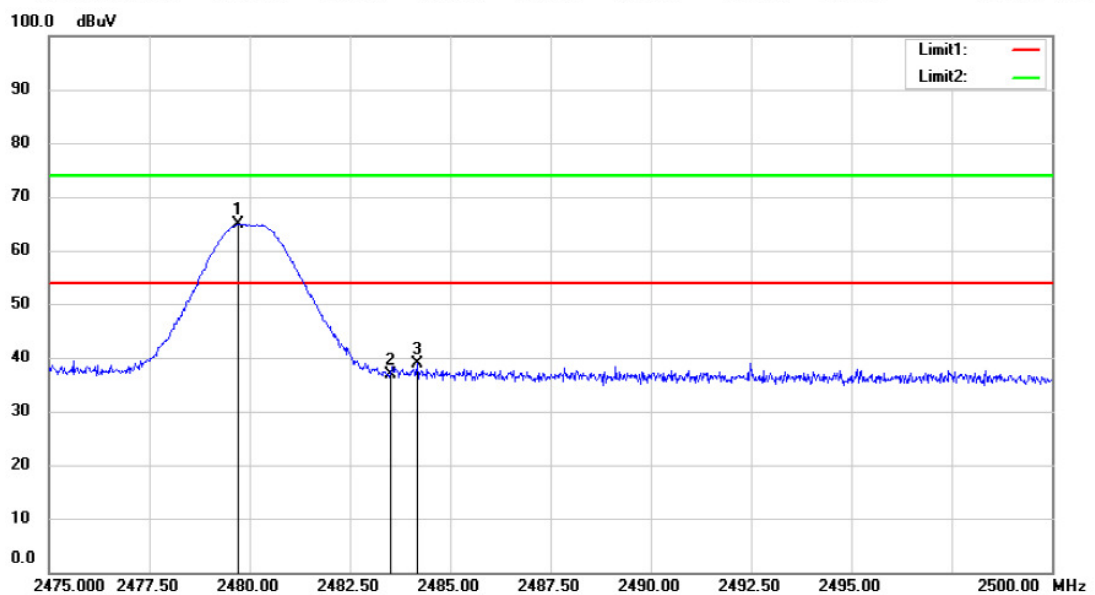
Highest Channel (2480MHz)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2479.725	75.11	-4.01	71.1	54	17.1	Peak	Horizontal
2	2483.5	41.8	-4.01	37.79	54	-16.21	Peak	Horizontal
3	2484.075	43.36	-4.02	39.34	54	-14.66	Peak	Horizontal
1	2479.7	68.91	-4.01	64.9	54	10.9	Peak	Vertical
2	2483.5	40.99	-4.01	36.98	54	-17.02	Peak	Vertical
3	2484.175	42.84	-4.02	38.82	54	-15.18	Peak	Vertical

Horizontal:



Vertical:





Remark: 1). Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor
2). If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Except as shown in paragraph of this section, only spurious emissions are permitted in any of the frequency bands listed below:

a. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			



8 Test Setup Photographs

Refer to the < PR3 _Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < PR3 _External Photos > & < PR3_Internal Photos >.

--End of the Report--