

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

FCC Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China

IC Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China (Peoples Republic Of)

Product Name: Notebook Computer

Brand Name: HUAWEI, HONOR

FCC Model No.: HBL-W19, HBL-W09, HBL-W29, HBL-WXXXXX (X Can be 0-9, A-Z, a-z, blank or symbol "-")

IC Model No.: HBL-W19, HBL-W09, HBL-W29

Model Difference: For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.

Report Number: T190226W02-RP2

FCC ID: QISHBL-WX9

IC: 6369A-HBLWX9

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb 2017

Issue Date: Apr. 10, 2019

Date of Test: Feb. 27, 2019 ~ Mar. 13, 2019

Date of EUT Received: Feb. 27, 2019

Issued by Compliance Certification Services Inc. Wugu Lab.
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service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

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Henry Chiang

Tested By:

Henry Chiang / Engineer

Kevin Tsai

Approved By:

Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190226W02-RP2	Rev.00	Initial creation of document	All	Mar. 29, 2019	Elle Chang
T190226W02-RP2	Rev.01	Update IC Model number	5	Apr. 10, 2019	Elle Chang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer	
Brand Name:	HUAWEI, HONOR	
FCC Model No.:	HBL-W19, HBL-W09, HBL-W29, HBL-WXXXXX (X Can be 0-9, A-Z, a-z, blank or symbol "-")	
IC Model No.:	HBL-W19, HBL-W09, HBL-W29	
Model Difference:	For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.	
Product SW/HW version:	1809 (OS Build 17763.253) / C3A	
Radio SW/HW version:	Wi-Fi Component: 20 / Wi-Fi Component: 9560	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	15.28Vdc from Rechargeable Li-ion Battery or 5Vdc / 9Vdc / 12Vdc / 15Vdc / 20Vdc from AC/DC Adapter.	
	Battery:	Model No.: HB6081V1ECW-41, Supplier: HUAWEI
	Adapter:	Model No.: HW-200325YYY (Y=0-9,A-Z or blank), Supplier: HUAWEI

Radio Technology:	Bluetooth Low Energy
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE: 7.93 dBm (1M) BLE: 7.74 dBm (2M)
Frequency Range:	2402 – 2480MHz
Antenna Designation:	PIFA Antenna, Antenna Gain: 1dBi

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v05r01.

RSS-Gen. issue 5 Apr. 2018

RSS-247 issue 2 Feb. 2017

ANSI C63.10:2013

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

1.3 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

Canada Registration number: 2324G

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 µH/50 ohm 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 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground 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 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.

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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.

2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission Configuration



Fig 2-2 AC power line Configuration

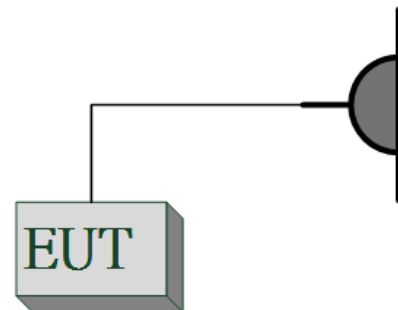


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.1 (1) RSS-Gen §6.7	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	RSS-247 §5.5 RSS-Gen §8.10	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2(2)	Peak Power Density	Compliant
§15.203 §15.247(b)	RSS- Gen §6.8	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	15	2430 MHz	29	2458 MHz
2	2404 MHz	16	2432 MHz	30	2460 MHz
3	2406 MHz	17	2434 MHz	31	2462 MHz
4	2408 MHz	18	2436 MHz	32	2464 MHz
5	2410 MHz	19	2438 MHz	33	2466 MHz
6	2412 MHz	20	2440 MHz	34	2468 MHz
7	2414 MHz	21	2442 MHz	35	2470 MHz
8	2416MHz	22	2444 MHz	36	2472 MHz
9	2418 MHz	23	2446 MHz	37	2474 MHz
10	2420 MHz	24	2448 MHz	38	2476 MHz
11	2422 MHz	25	2450 MHz	39	2478 MHz
12	2424 MHz	26	2452 MHz	40	2480 MHz
13	2426 MHz	27	2454 MHz		
14	2428 MHz	28	2456 MHz		

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	2
Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case H position was reported.				

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	2

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
Peak Output Power	+/- 1.92 dB
6dB Bandwidth	+/- 61.248 Hz
100 kHz Bandwidth of Frequency Band Edges	+/- 1.92 dB
Peak Power Density	+/- 1.996 dB
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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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(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

Note

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

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	2018/06/29	2019/06/28
EMI Test Receiver	R&S	ESCI	100064	2018/07/24	2019/07/23
LISN	SCHWARZ-BECK	NSLK 8127	8127-541	2019/01/31	2020/01/30
LISN	SCHAFFNER	NNB 41	03/10013	2019/02/13	2020/02/12
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup:

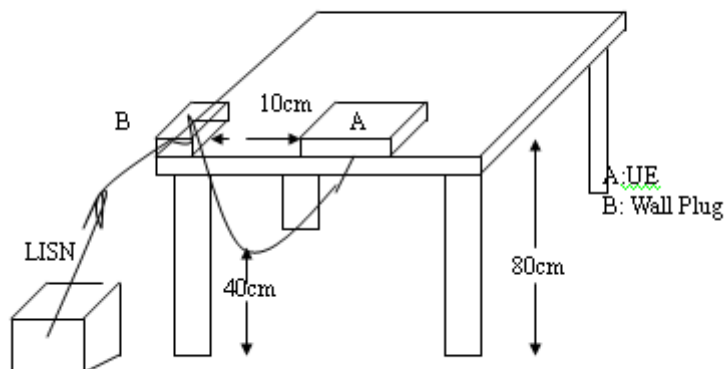
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

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

6.6 Measurement Result:

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Job No.: T190226W02-RP1~4

Date: 2019/3/12

Company: HUAWEI

Time: AM 08:54:00

Standard: NCC/FCC/IC QP

Temp.(°C)/Hum.(%): 23(°C)/60%

Test item: Conduction test

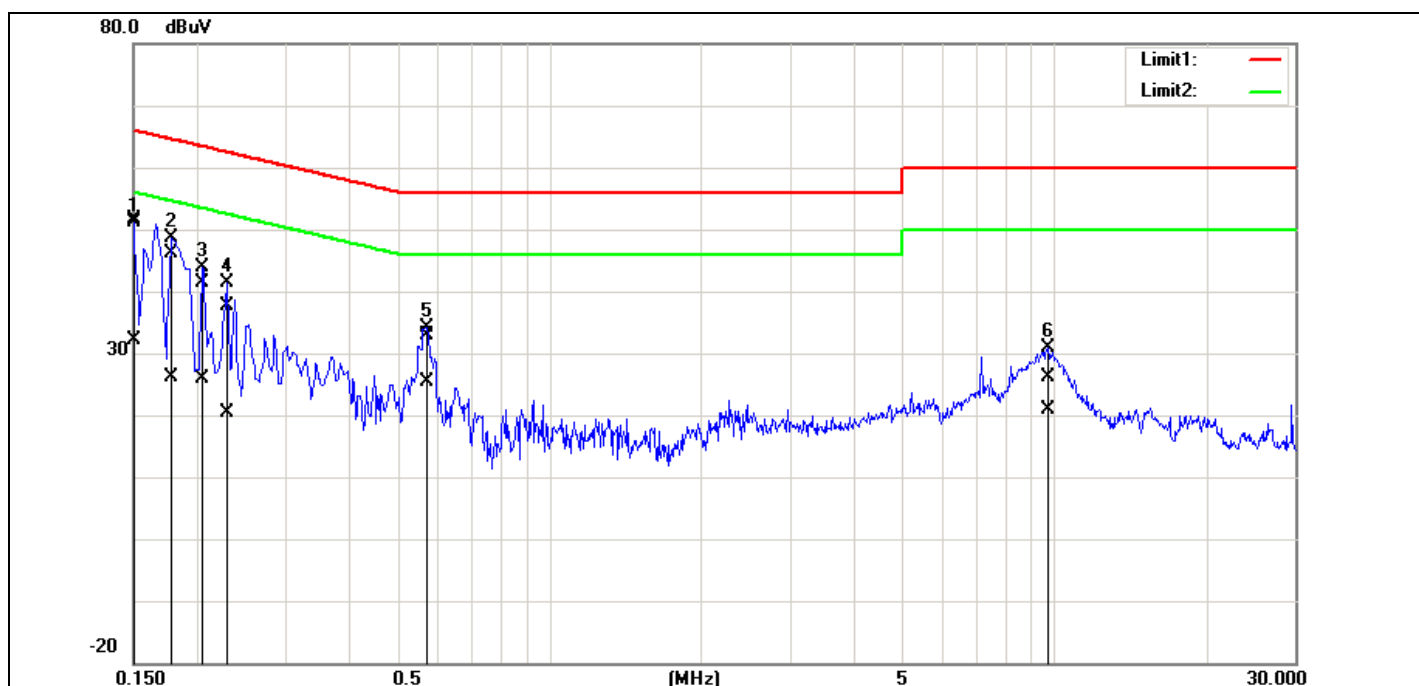
Test By: Henry

Line: L1

Test Voltage: AC 120V/60Hz

Model: H97

Description:



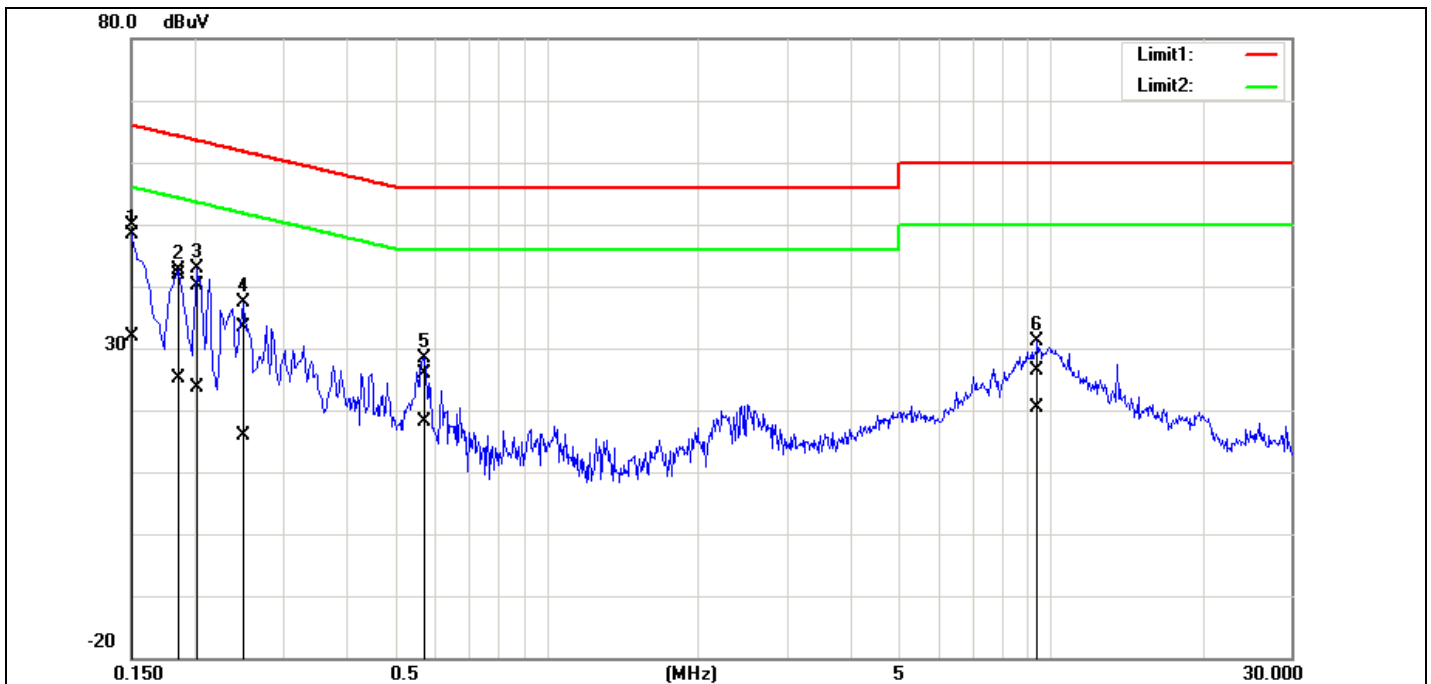
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	51.42	31.90	0.16	51.58	32.06	65.99	56.00	-14.41	-23.94	Pass
2	0.1785	45.95	26.01	0.15	46.10	26.16	64.55	54.56	-18.45	-28.40	Pass
3	0.2060	41.25	25.81	0.15	41.40	25.96	63.36	53.37	-21.96	-27.41	Pass
4	0.2300	37.44	20.33	0.15	37.59	20.48	62.45	52.45	-24.86	-31.97	Pass
5	0.5740	32.65	25.29	0.16	32.81	25.45	56.00	46.00	-23.19	-20.55	Pass
6	9.7299	25.79	20.41	0.45	26.24	20.86	60.00	50.00	-33.76	-29.14	Pass

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Job No.:	T190226W02-RP1~4	Date:	2019/3/12
Company:	HUAWEI	Time:	AM 08:57:33
Standard:	NCC/FCC/IC QP	Temp.(°C)/Hum.(%):	23(°C)/60%
Test item:	Conduction test	Test By:	Henry
Line:	N	Test Voltage:	AC 120V/60Hz
Model:	H97		

Description:


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	49.79	31.63	0.16	49.95	31.79	65.99	56.00	-16.04	-24.21	Pass
2	0.1860	41.75	25.00	0.15	41.90	25.15	64.21	54.21	-22.31	-29.06	Pass
3	0.2020	39.91	23.41	0.15	40.06	23.56	63.52	53.53	-23.46	-29.97	Pass
4	0.2500	33.26	15.85	0.15	33.41	16.00	61.75	51.76	-28.34	-35.76	Pass
5	0.5740	25.78	18.09	0.16	25.94	18.25	56.00	46.00	-30.06	-27.75	Pass
6	9.4100	25.82	19.96	0.44	26.26	20.40	60.00	50.00	-33.74	-29.60	Pass

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

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

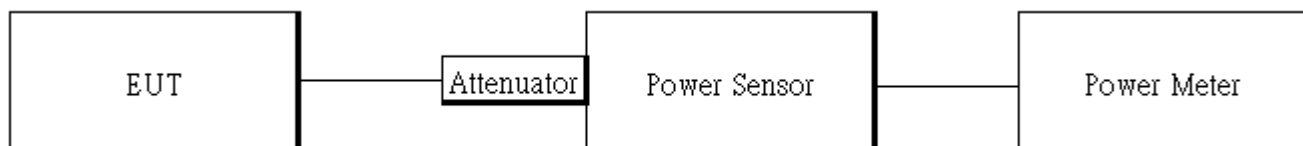
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

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

7.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	2018/10/23	2019/10/22
Power Sensor	Anritsu	MA2411B	1207365	2018/10/23	2019/10/22
Power Sensor	Anritsu	MA2411B	1207368	2018/10/24	2019/10/23
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14

7.3 Test Set-up:



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7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas Guidance & ANSI C63.10..
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

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

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

Formula:

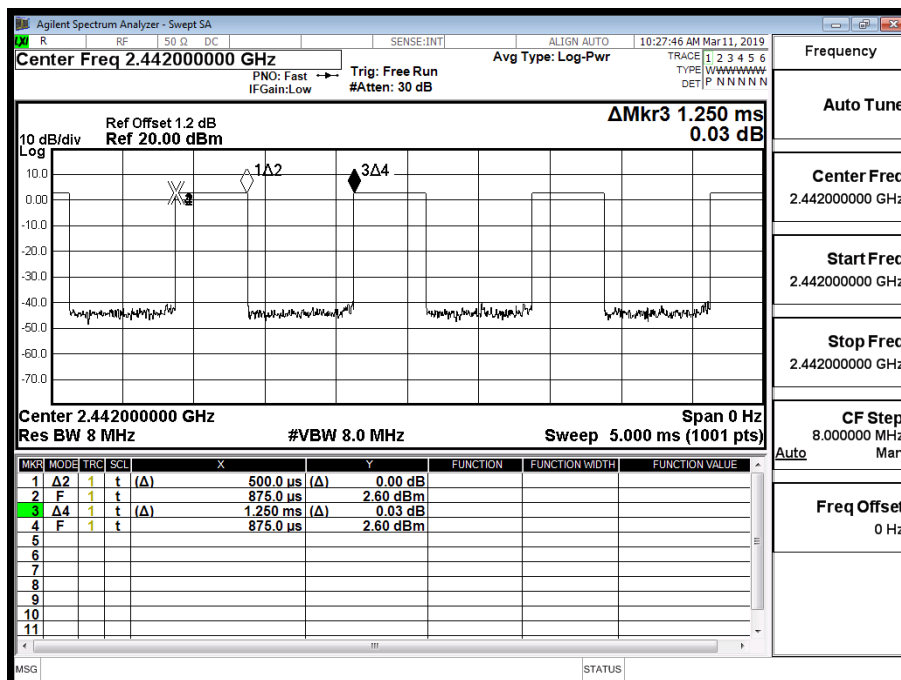
Duty Cycle = Ton / (Ton+ Toff)

Duty Factor:

BLE (1M) mode

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
BLE	40.00	3.98	2.00	2.00

Duty Cycle_BLE_1M_MidCH20-2442



$$\text{Duty Cycle Factor: } 10 \cdot \log(1/(40/100)) = 3.98$$

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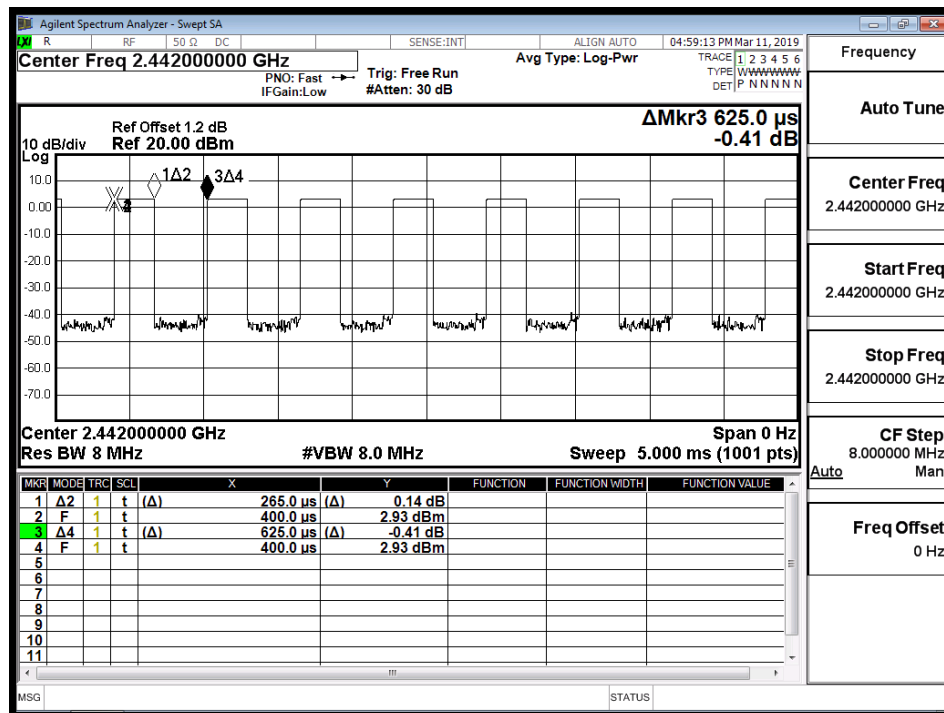
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BLE (2M) mode

Duty Cycle

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
BLE	40.00	3.98	3.77	4.00

Duty Cycle_BLE_2M_MidCH20-2442



$$\text{Duty Cycle Factor: } 10 \cdot \log(1/(40/100)) = 3.98$$

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7.5 Measurement Result:

BLE (1M) mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	7.85	1 Watt = 30 dBm
20	2442	7.33	1 Watt = 30 dBm
39	2480	7.93	1 Watt = 30 dBm
BLE (1M) mode:			
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	6.97	1 Watt = 30 dBm
20	2442	6.98	1 Watt = 30 dBm
39	2480	6.81	1 Watt = 30 dBm

*Note: Measured by power meter, cable loss as 1.2 dB that offsets on the power meter in Peak

*Note: Measured by power meter, **as cable loss+ Duty cycle factor** that offsets on the power meter

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

EIRP

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
0	2402	6.97	1.00	7.97	4W=	36	dBm
20	2442	6.98	1.00	7.98	4W=	36	dBm
39	2480	6.81	1.00	7.81	4W=	36	dBm

*** Note:** EIRP = Average Power + Gain

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BLE (2M) mode

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	7.74	1 Watt = 30 dBm
20	2442	7.31	1 Watt = 30 dBm
39	2480	7.15	1 Watt = 30 dBm
BLE (2M) mode:			
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	6.95	1 Watt = 30 dBm
20	2442	6.90	1 Watt = 30 dBm
39	2480	6.79	1 Watt = 30 dBm

*Note: Measured by power meter, cable loss as 1.2 dB that offsets on the power meter in Peak

*Note: Measured by power meter, as cable loss+ Duty cycle factor that offsets on the power meter

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

EIRP

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
0	2402	6.95	1.00	7.95	4W=	36	dBm
20	2442	6.90	1.00	7.90	4W=	36	dBm
39	2480	6.79	1.00	7.79	4W=	36	dBm

* **Note:** EIRP = Average Power + Gain

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8 6DB & 99% BANDWIDTH MEASUREMENT

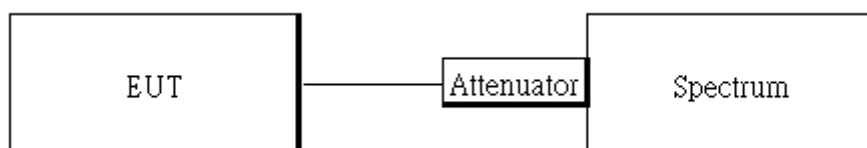
8.1 Standard Applicable

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

8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

8.3 Test Set-up:



8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW=3*RBW, Span = 2MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all test default channel is completed

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8.5 Measurement Result:

BLE (1M) mode

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	0.646	> 0.5	PASS
2442	0.644	> 0.5	PASS
2480	0.656	> 0.5	PASS

BLE (1M) mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.029
2442	1.0267
2480	1.0314

BLE (2M) mode

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	1.141	> 0.5	PASS
2442	1.134	> 0.5	PASS
2480	1.154	> 0.5	PASS

BLE (2M) mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0439
2442	2.0428
2480	2.0495

Note: Refer to next page for plots.

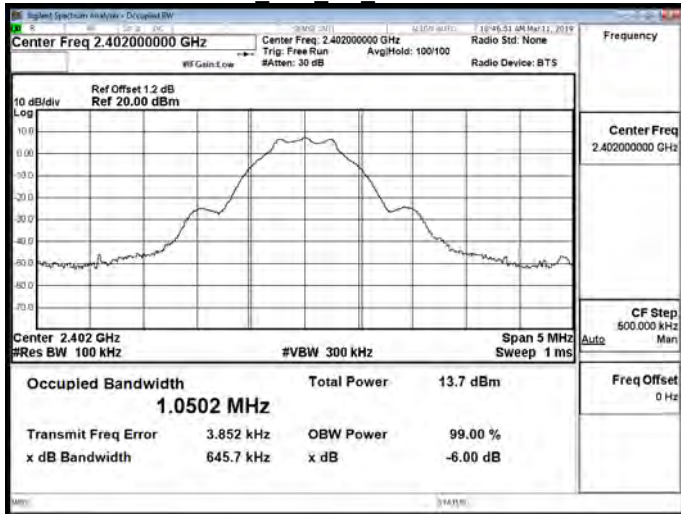
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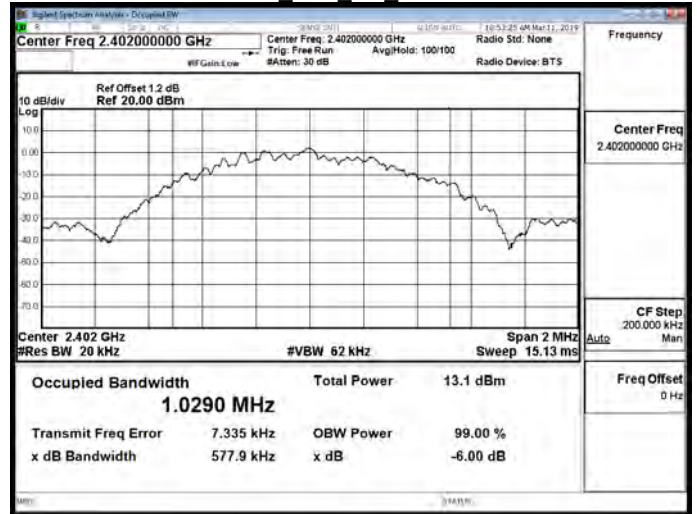
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BLE (1M) mode

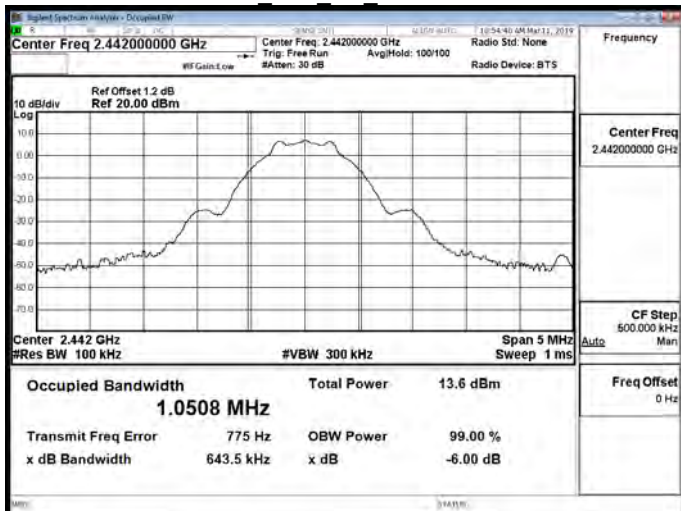
OBW 6dB BLE 1M LowCH00-2402



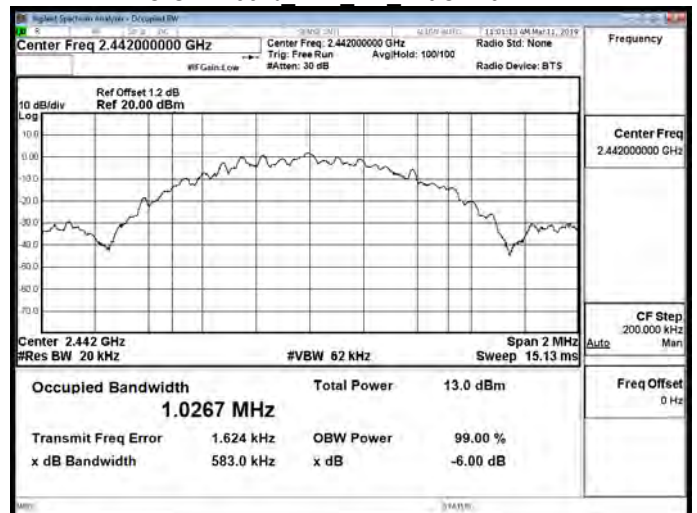
IC OBW 99% BLE 1M LowCH00-2402



OBW 6dB BLE 1M MidCH20-2442



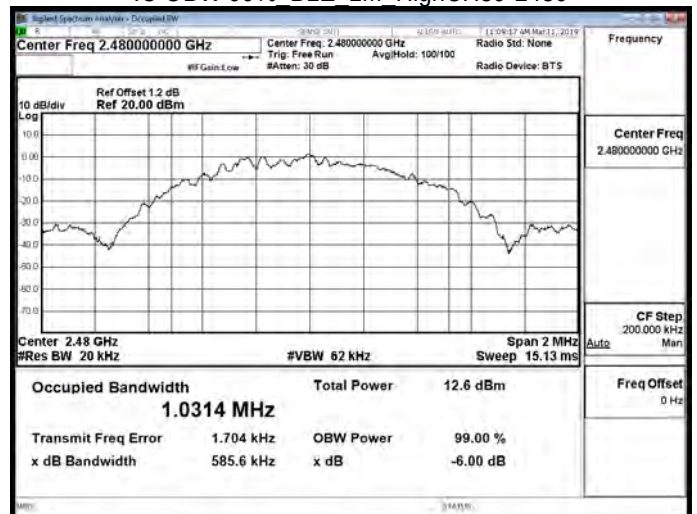
IC OBW 99% BLE 1M MidCH20-2442



OBW 6dB BLE 1M HighCH39-2480



IC OBW 99% BLE 1M HighCH39-2480



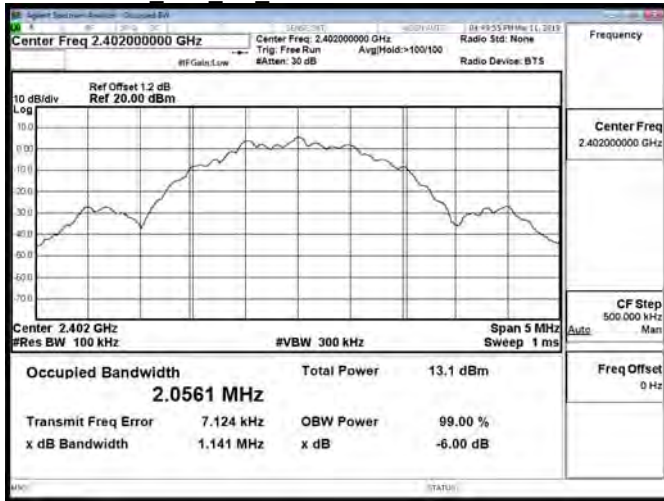
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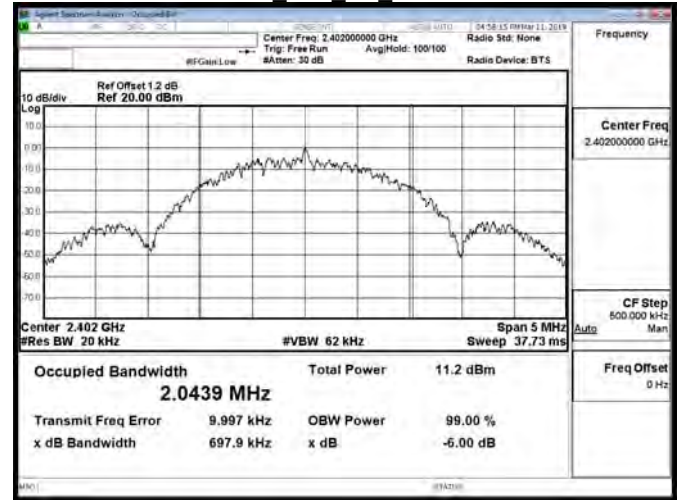
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BLE (2M) mode

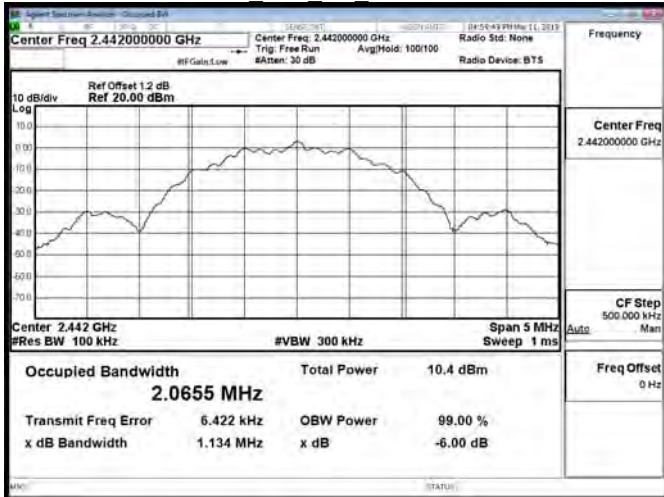
OBW 6dB BLE 2M LowCH00-2402



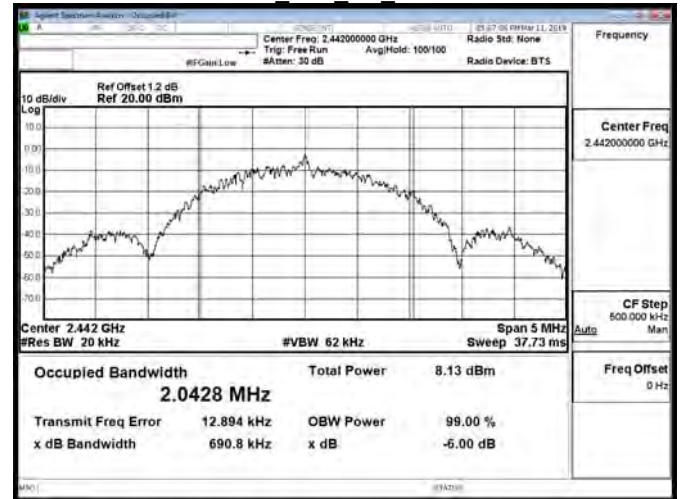
IC OBW 99% BLE 2M LowCH00-2402



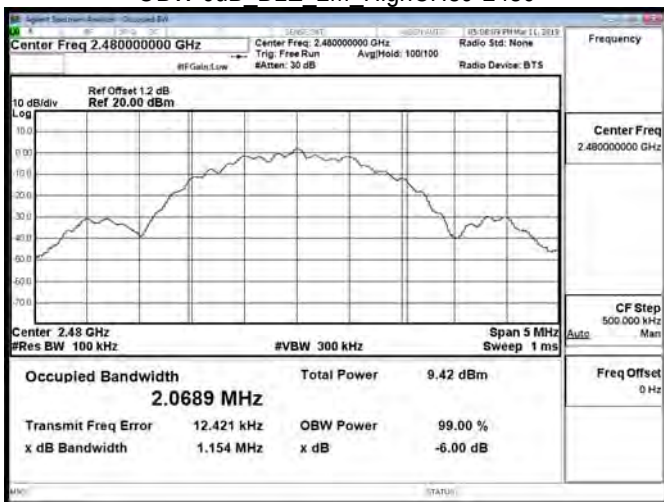
OBW 6dB BLE 2M MidCH20-2442



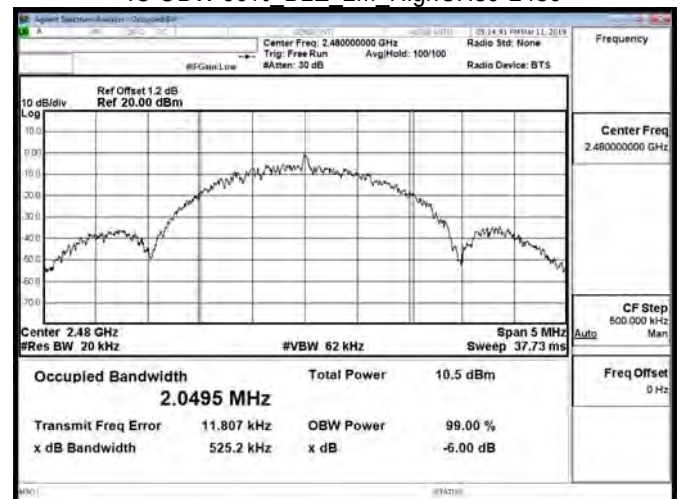
IC OBW 99% BLE 2M MidCH20-2442



OBW 6dB BLE 2M HighCH39-2480



IC OBW 99% BLE 2M HighCH39-2480



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

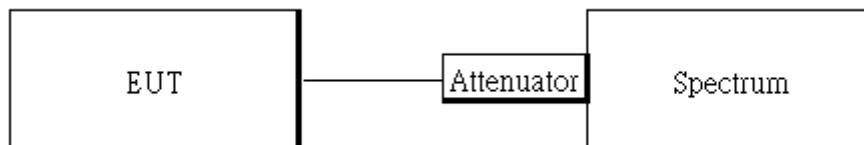
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

9.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

9.3 Test SET-UP:



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9.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

9.5 Measurement Result

BLE (1M) mode

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	7.06	-12.94
2442	6.87	-13.13
2480	6.30	-13.70

NOTE: cable loss as 1.2dB that offsets in the spectrum

NOTE: Refer to next page for plots.

BLE (2M) mode

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	5.59	-14.41
2442	6.03	-13.97
2480	1.82	-18.18

NOTE: cable loss as 1.2dB that offsets in the spectrum

NOTE: Refer to next page for plots.

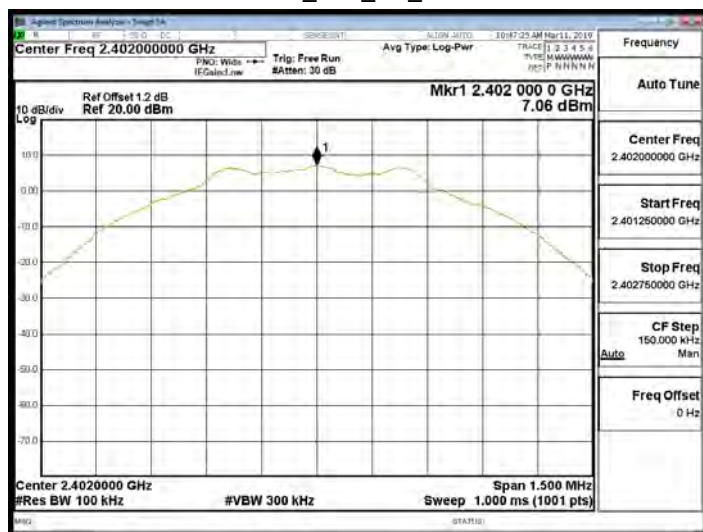
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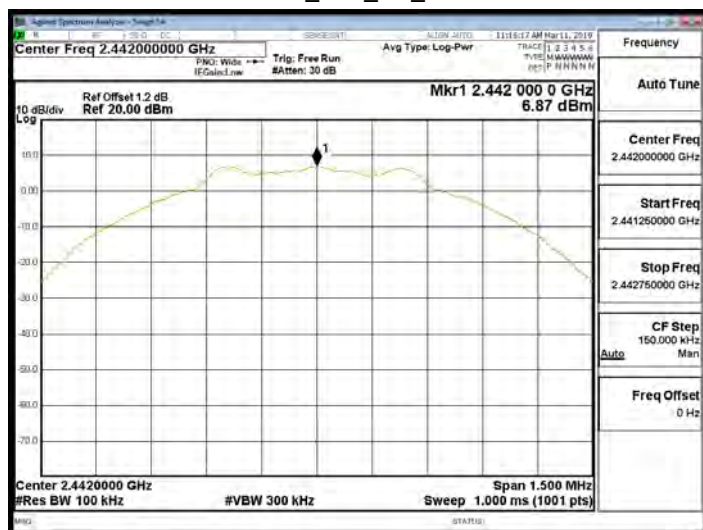
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BLE (1M) mode

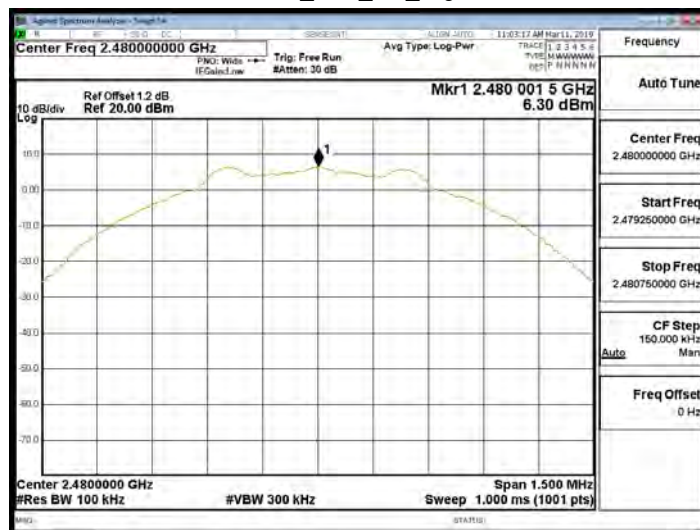
Reference Level_BLE_1M_LowCH00-2402



Reference Level_BLE_1M_MidCH20-2442



Reference Level_BLE_1M_HighCH39-2480

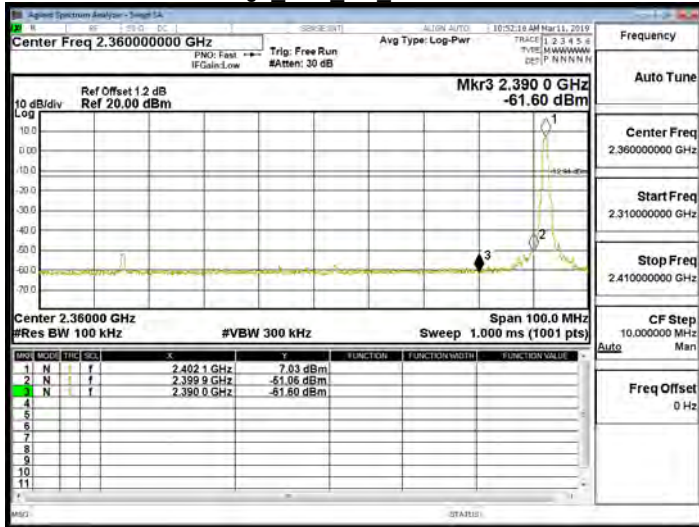


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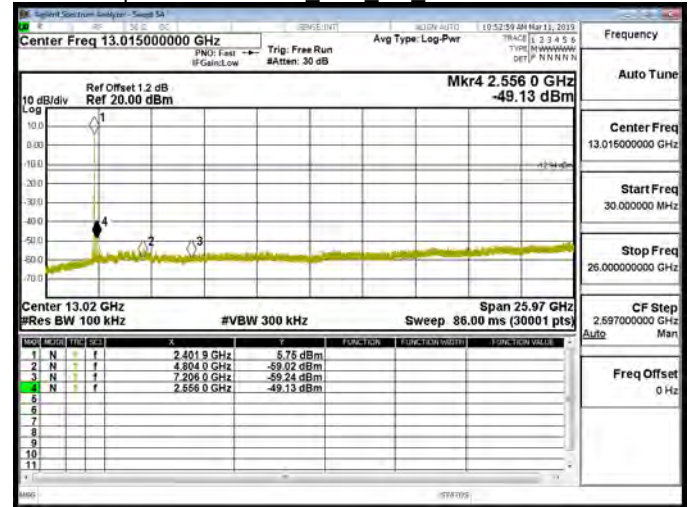
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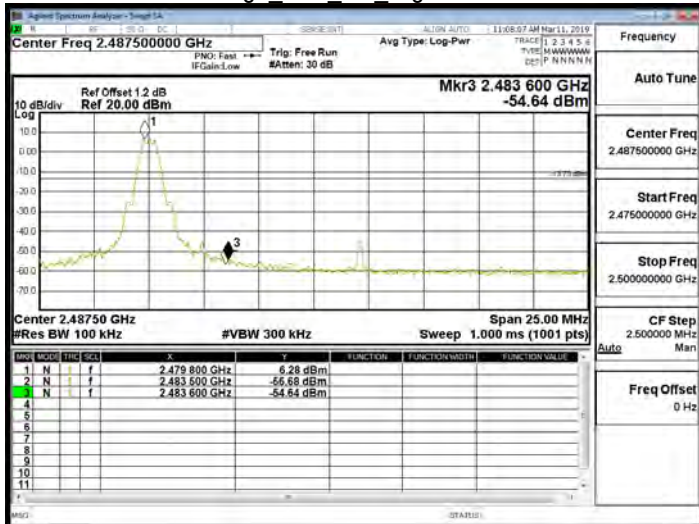
Band Edge BLE 1M LowCH00-2402



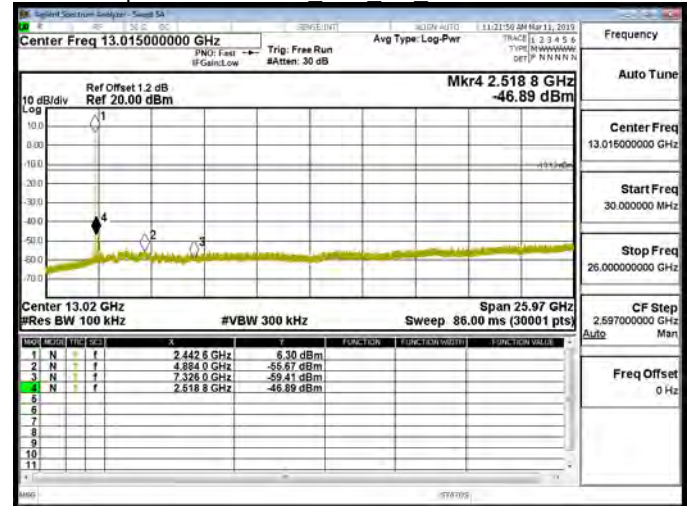
Spurious Emission BLE 1M LowCH00-2402



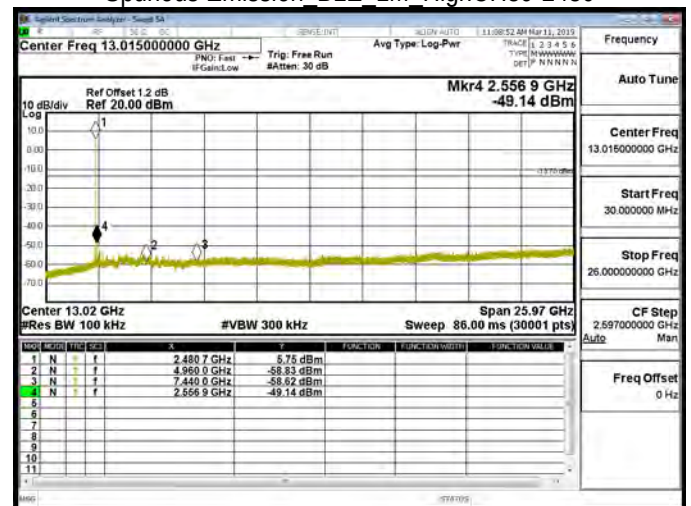
Band Edge BLE 1M HighCH39-2480



Spurious Emission BLE 1M MidCH20-2442



Spurious Emission BLE 1M HighCH39-2480



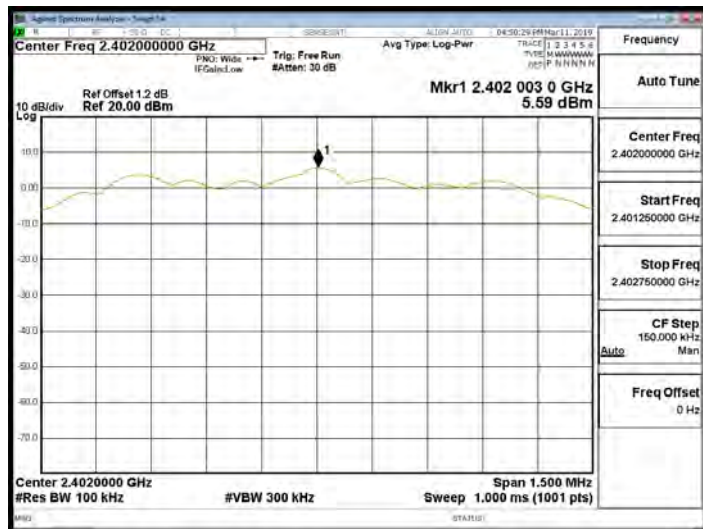
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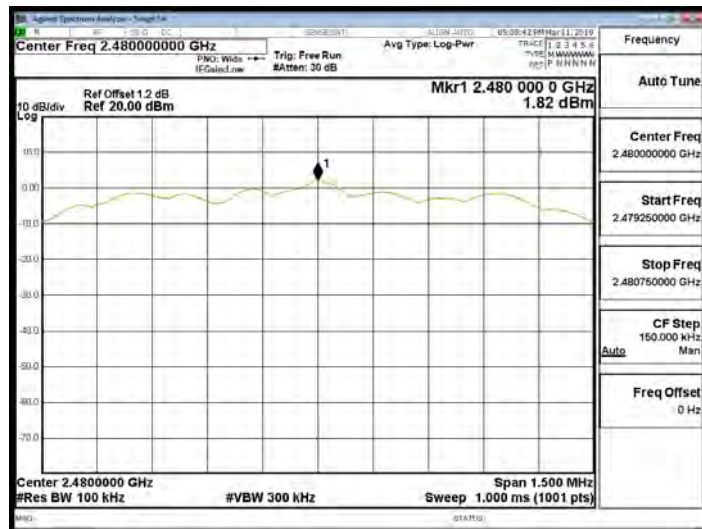
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BLE (2M) mode

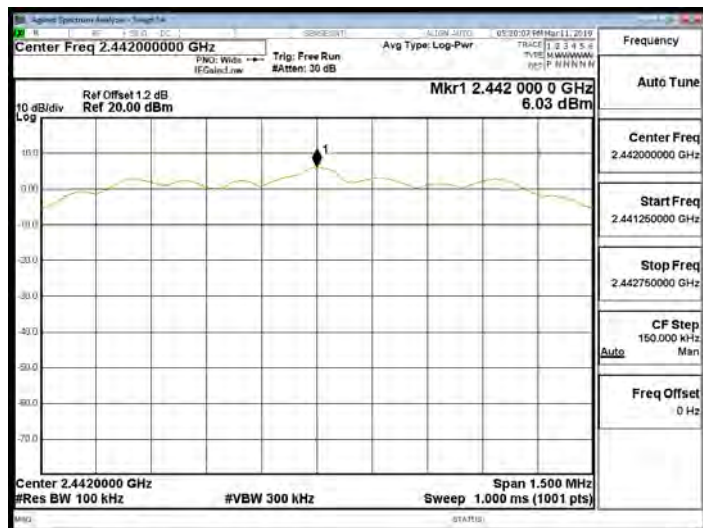
Reference Level_BLE_2M_LowCH00-2402



Reference Level_BLE_2M_HighCH39-2480



Reference Level_BLE_2M_MidCH20-2442

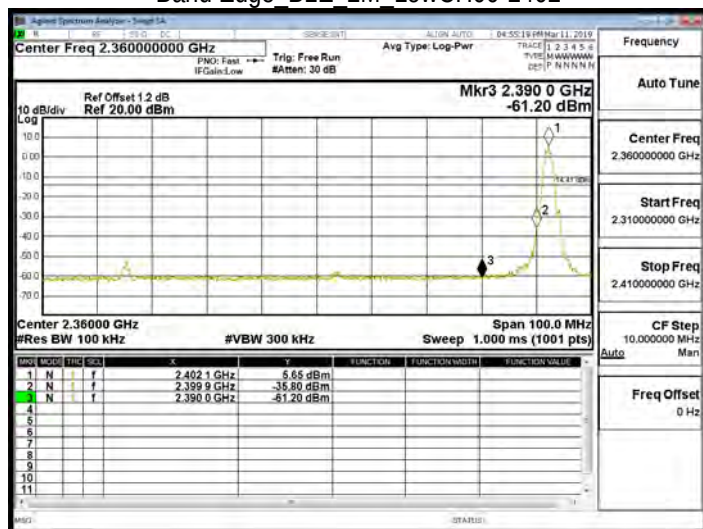


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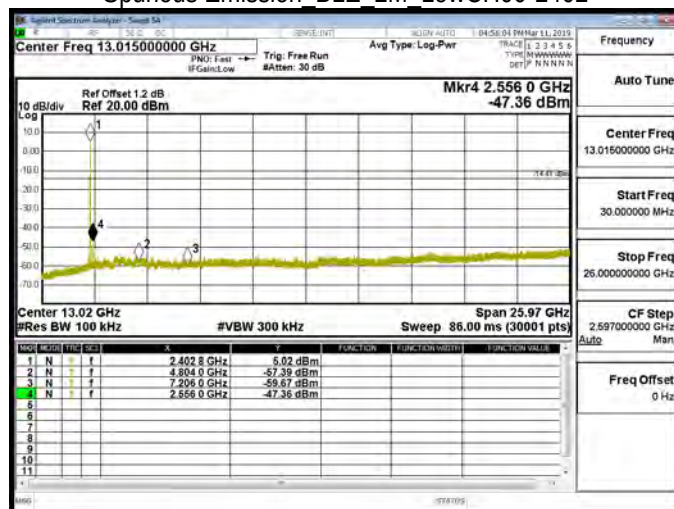
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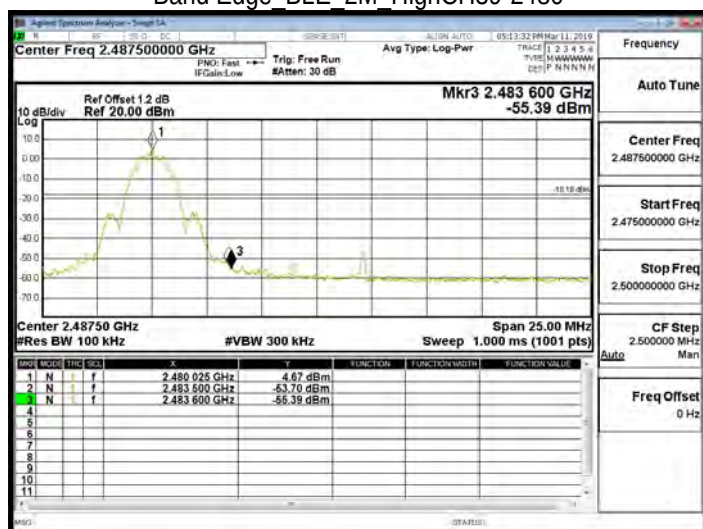
Band Edge BLE 2M LowCH00-2402



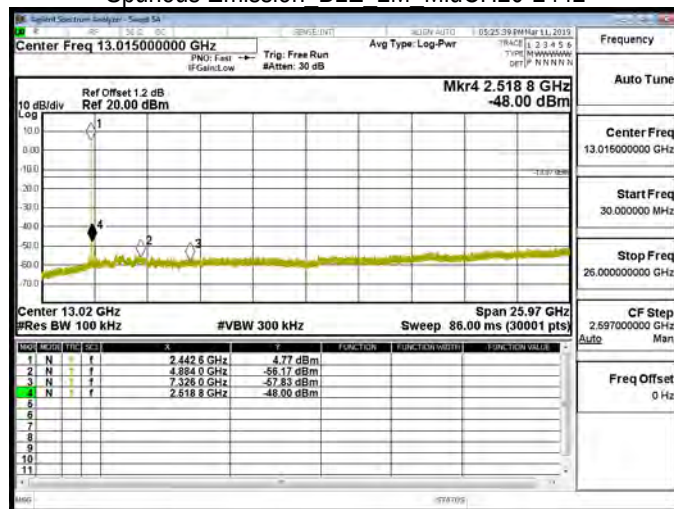
Spurious Emission BLE 2M LowCH00-2402



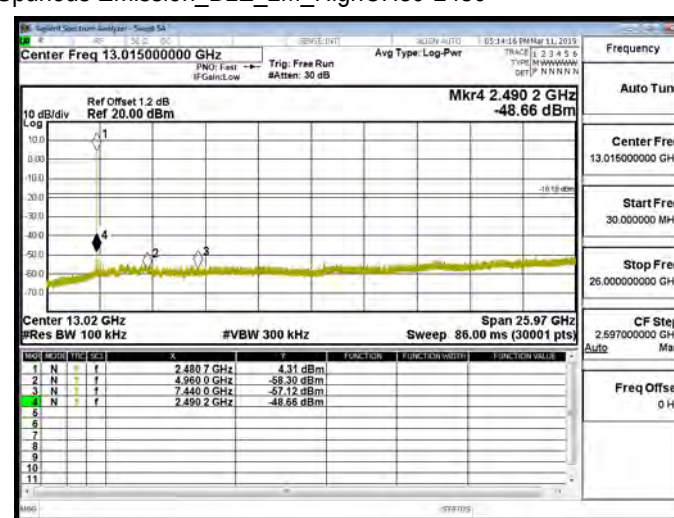
Band Edge BLE 2M HighCH39-2480



Spurious Emission BLE 2M MidCH20-2442



Spurious Emission_BLE_2M_HighCH39-2480



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the RSS-Gen §8.10 Table 7.

And according to 15.33(a)(1) & RSS-Gen §6.13(a) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to RSS-Gen §8.9 Table 5 & 6 Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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10.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Band Reject Filters	MICRO TRONICS	BRM 50702	120	2019/02/26	2020/02/25
Bilog Antenna	Sunol Sciences	JB3	A030105	2018/07/13	2019/07/12
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	2019/02/26	2020/02/25
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	2019/02/26	2020/02/25
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	2019/01/30	2020/01/29
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	2018/08/20	2019/08/19
Loop Antenna	ETS.LINDGREN	6502	148045	2018/10/08	2019/10/07
Pre-Amplifier	EMEC	EM330	060609	2019/02/26	2020/02/25
Pre-Amplifier	HP	8449B	3008A00965	2019/02/26	2020/02/25
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	2018/05/31	2019/05/30
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

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

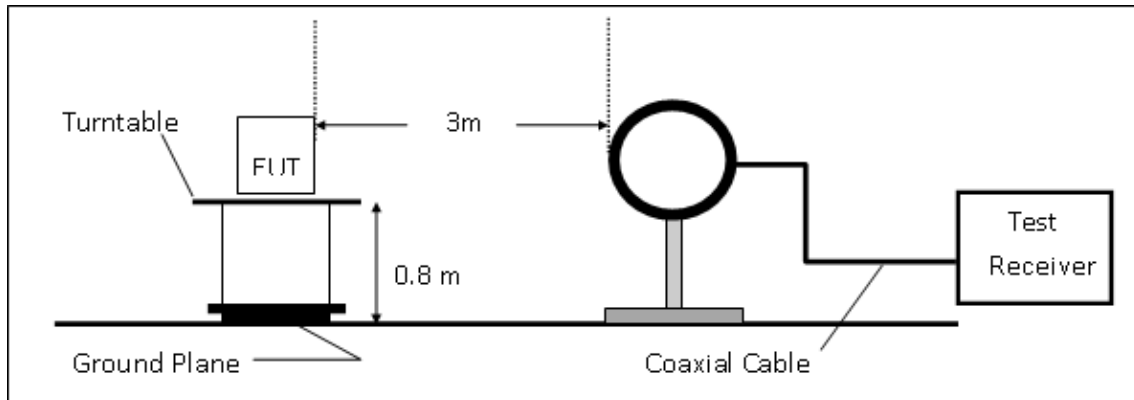
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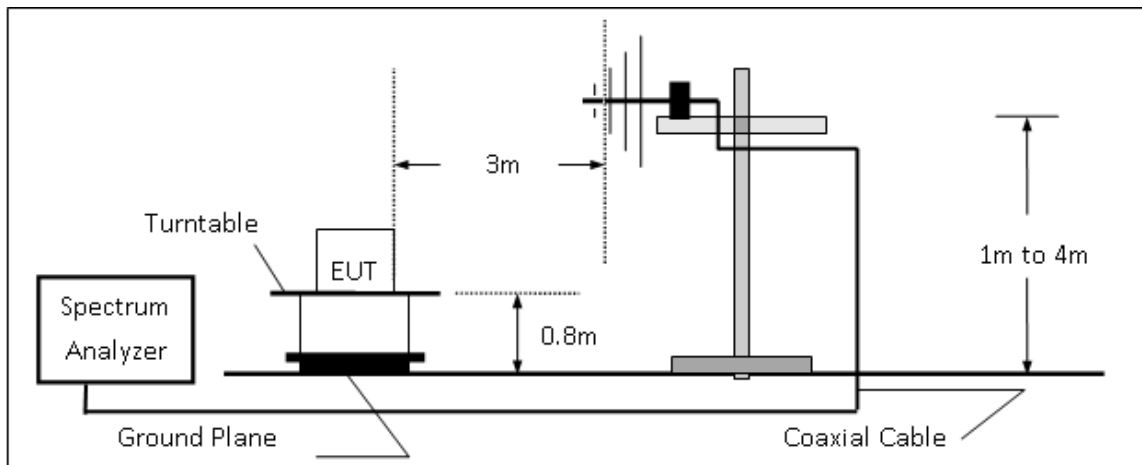
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10.3 Test SET-UP

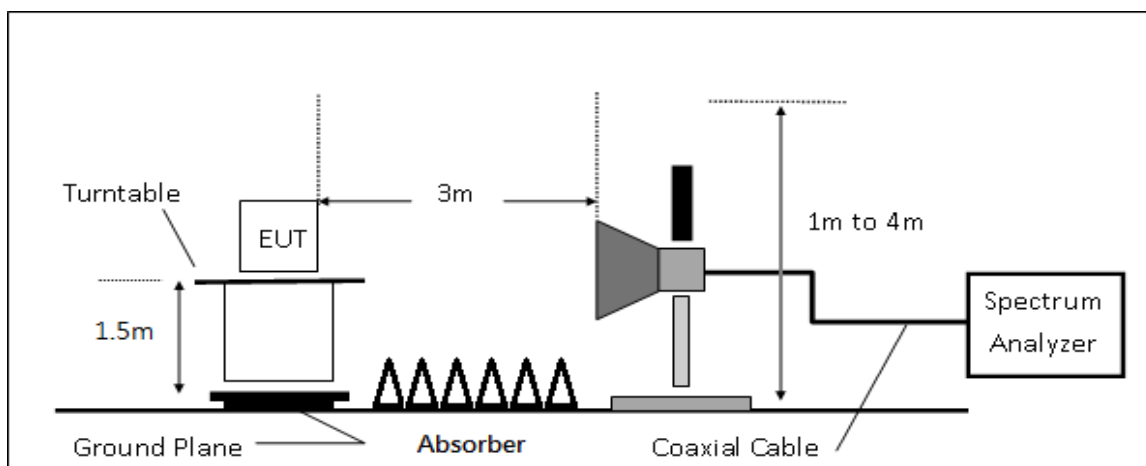
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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10.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
11. Repeat above procedures until all default test channel measured were complete.

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10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

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

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

10.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result:

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

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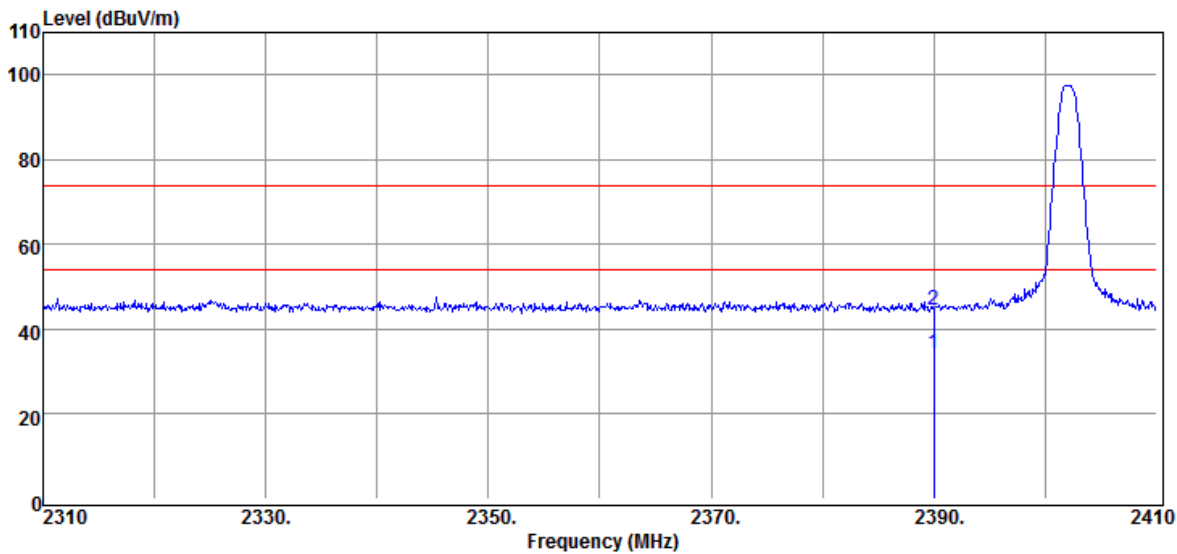
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Radiated Band Edge Measurement Result

BLE (1M) mode

Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



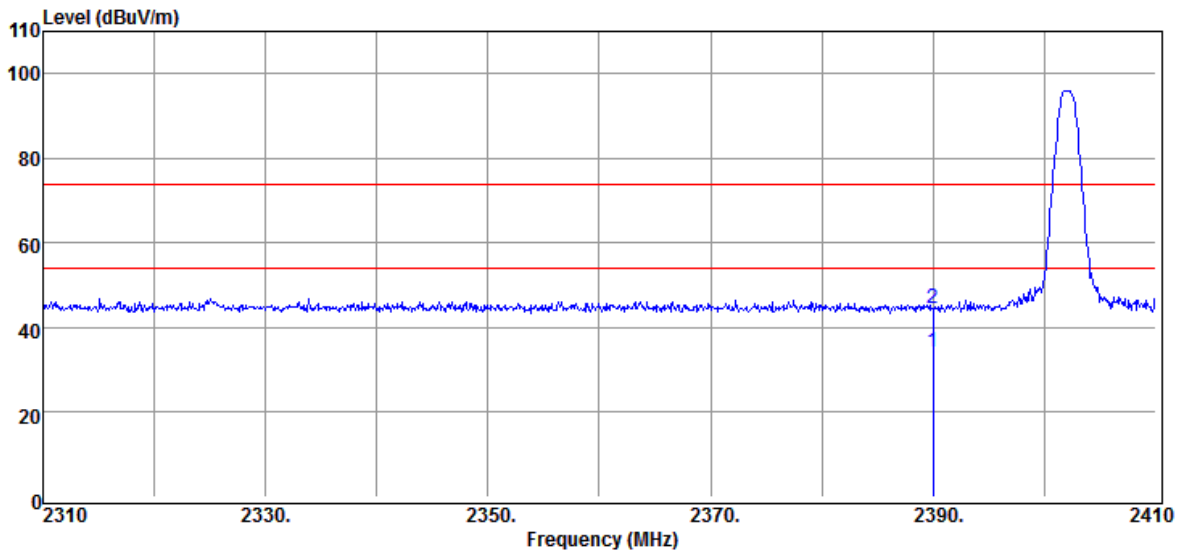
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	37.64	-3.33	34.31	54.00	-19.69
2390.00	Peak	47.89	-3.33	44.56	74.00	-29.44

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



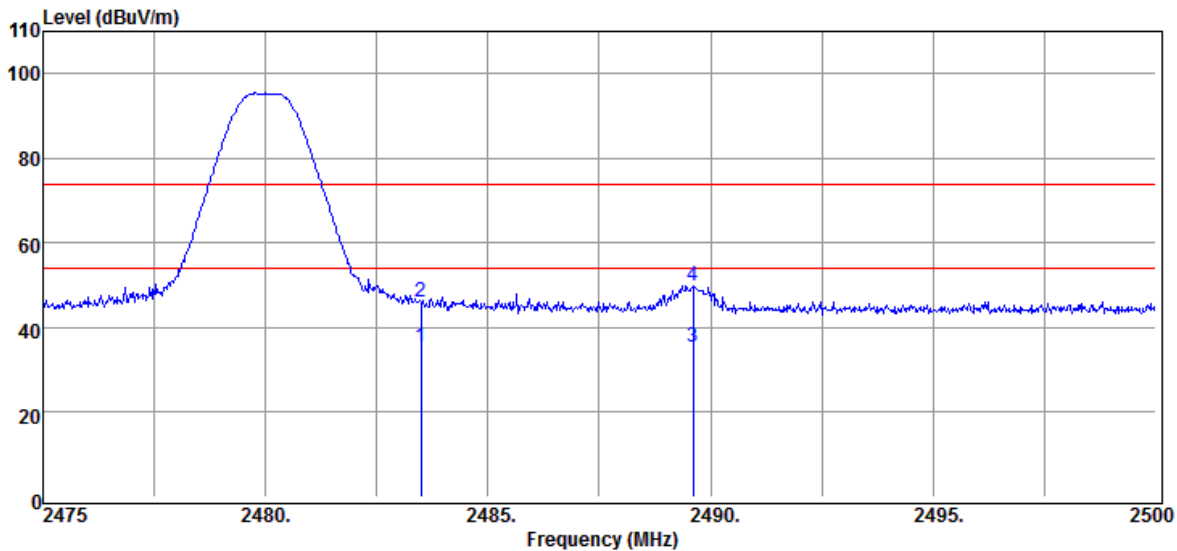
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	37.73	-3.33	34.40	54.00	-19.60
2390.00	Peak	47.85	-3.33	44.52	74.00	-29.48

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



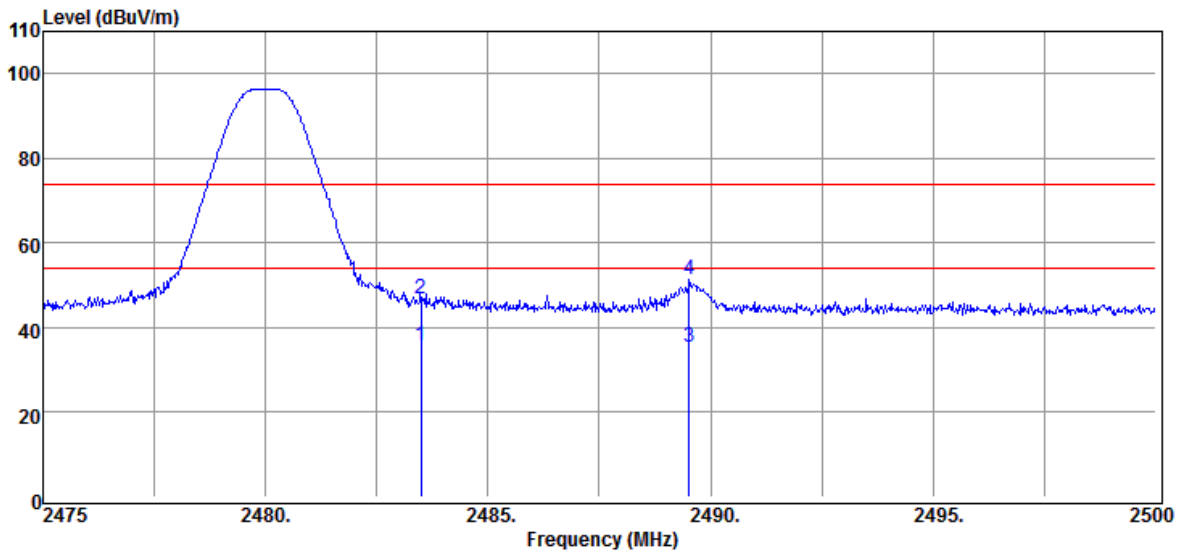
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.07	-2.72	35.35	54.00	-18.65
2483.50	Peak	48.71	-2.72	45.99	74.00	-28.01
2489.60	Average	38.11	-2.67	35.44	54.00	-18.56
2489.60	Peak	52.62	-2.67	49.95	74.00	-24.05

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.40	-2.72	35.68	54.00	-18.32
2483.50	Peak	49.44	-2.72	46.72	74.00	-27.28
2489.53	Average	38.19	-2.67	35.52	54.00	-18.48
2489.53	Peak	54.04	-2.67	51.37	74.00	-22.63

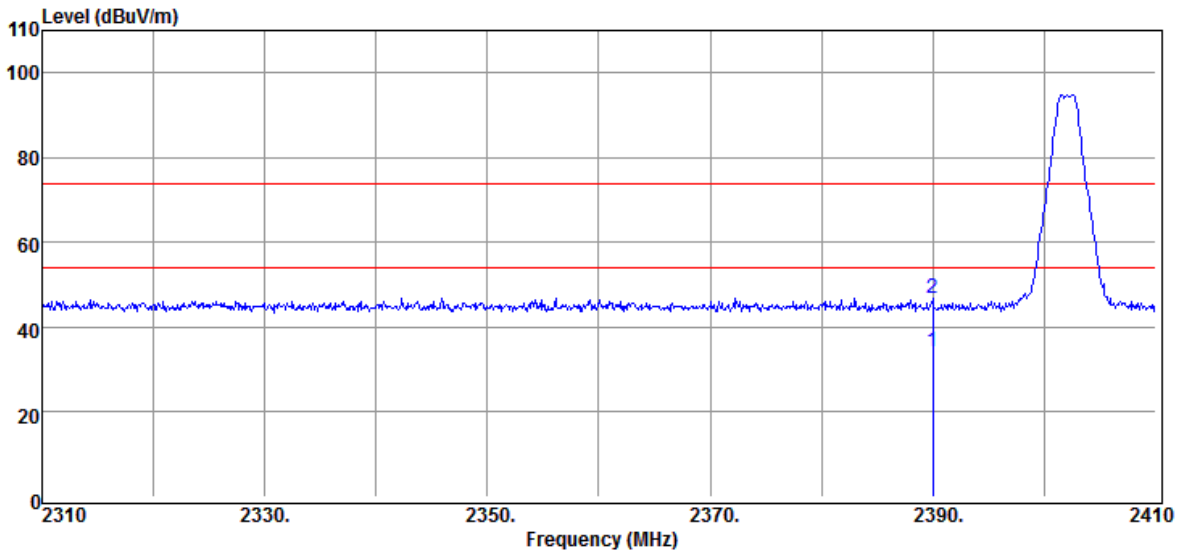
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BLE (2M) mode

Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



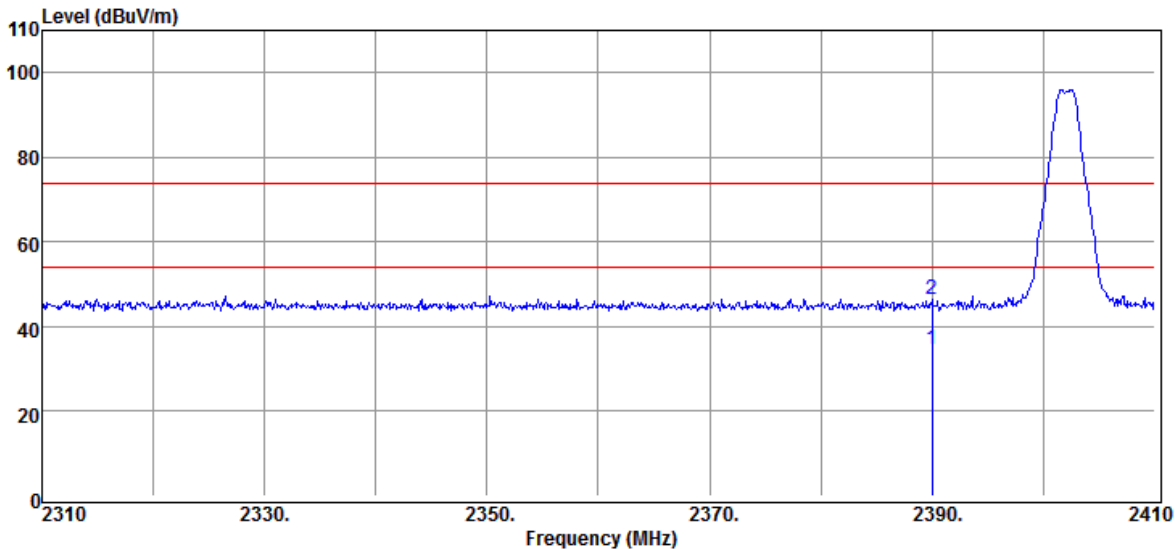
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	37.63	-3.33	34.30	54.00	-19.70
2390.00	Peak	50.00	-3.33	46.67	74.00	-27.33

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



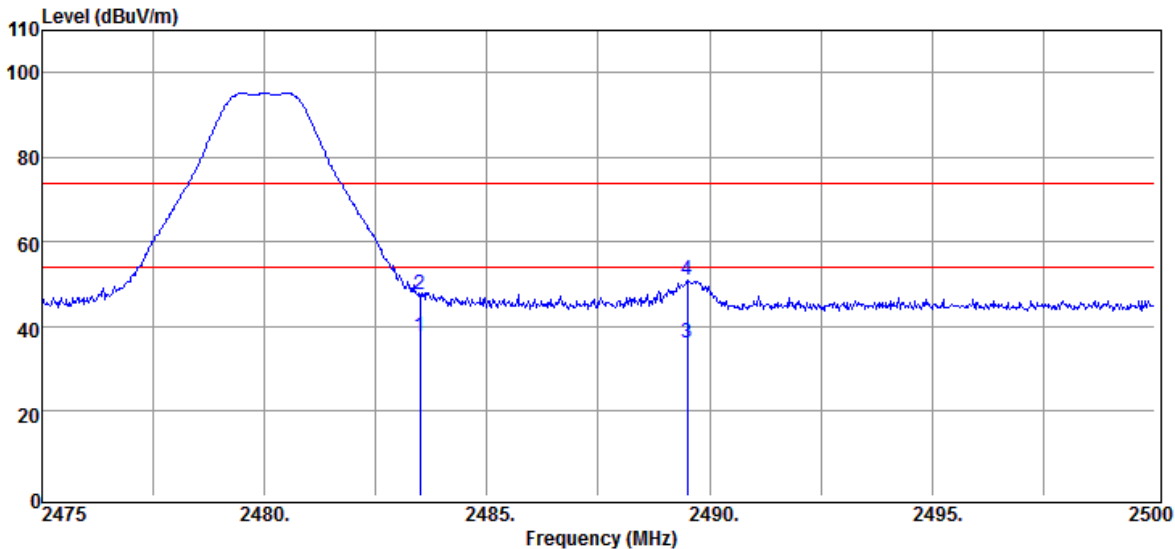
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	37.91	-3.33	34.58	54.00	-19.42
2390.00	Peak	49.92	-3.33	46.59	74.00	-27.41

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



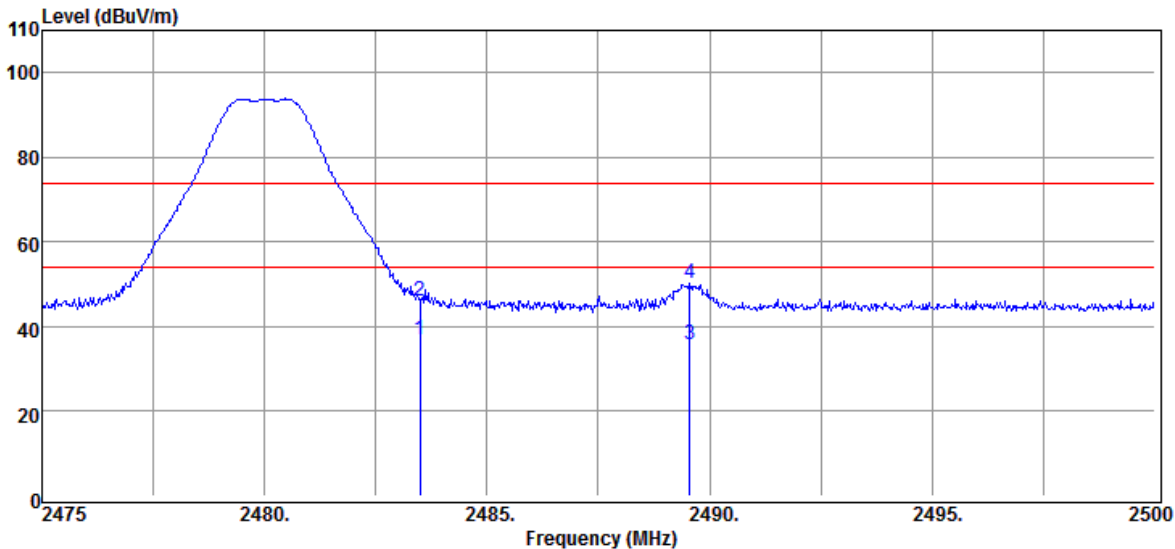
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	40.26	-2.72	37.54	54.00	-16.46
2483.50	Peak	50.41	-2.72	47.69	74.00	-26.31
2489.50	Average	38.70	-2.67	36.03	54.00	-17.97
2489.50	Peak	53.74	-2.67	51.07	74.00	-22.93

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.83	-2.72	37.11	54.00	-16.89
2483.50	Peak	48.83	-2.72	46.11	74.00	-27.89
2489.55	Average	38.41	-2.67	35.74	54.00	-18.26
2489.55	Peak	53.02	-2.67	50.35	74.00	-23.65

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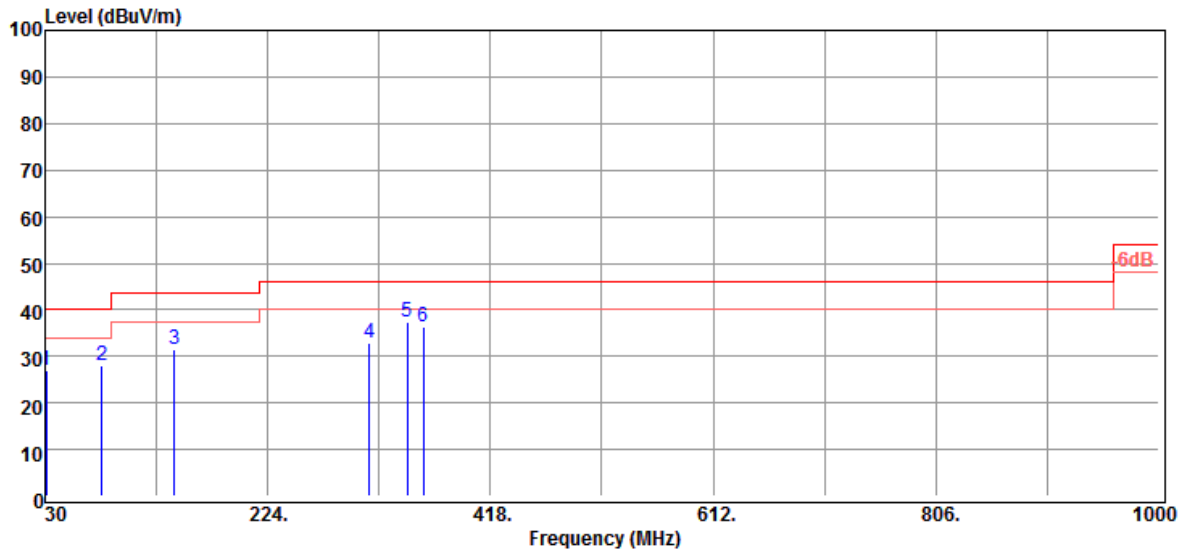
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Radiated Spurious Emission Measurement Result

For Frequency form 30MHz to 1000MHz

BLE (1M) mode

Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



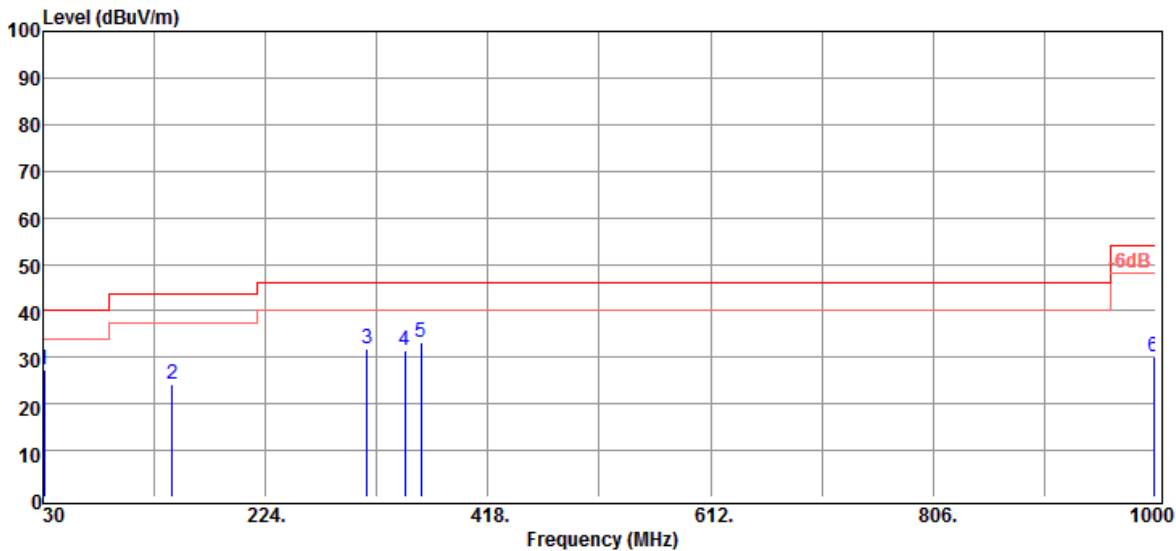
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.97	Peak	29.64	-2.64	27.00	40.00	-13.00
79.47	Peak	45.22	-17.22	28.00	40.00	-12.00
142.52	Peak	44.21	-12.69	31.52	43.50	-11.98
312.27	Peak	42.37	-9.47	32.90	46.00	-13.10
345.25	Peak	45.72	-8.51	37.21	46.00	-8.79
359.80	Peak	44.40	-8.03	36.37	46.00	-9.63

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



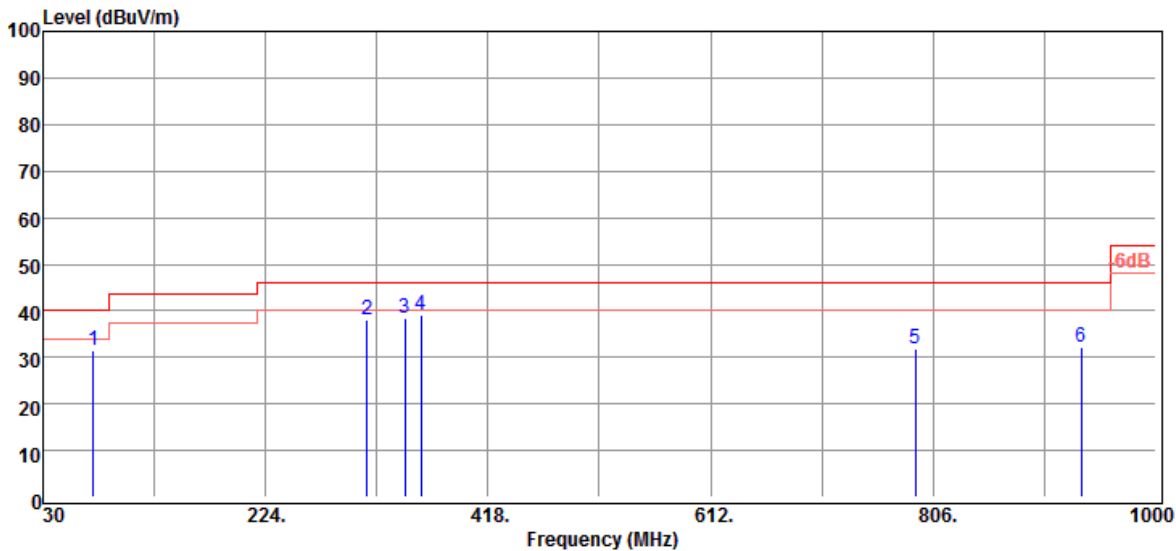
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	30.09	-2.64	27.45	40.00	-12.55
142.52	Peak	36.90	-12.69	24.21	43.50	-19.29
312.27	Peak	41.22	-9.47	31.75	46.00	-14.25
345.25	Peak	40.10	-8.51	31.59	46.00	-14.41
359.80	Peak	41.37	-8.03	33.34	46.00	-12.66
998.06	Peak	26.56	3.68	30.24	54.00	-23.76

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



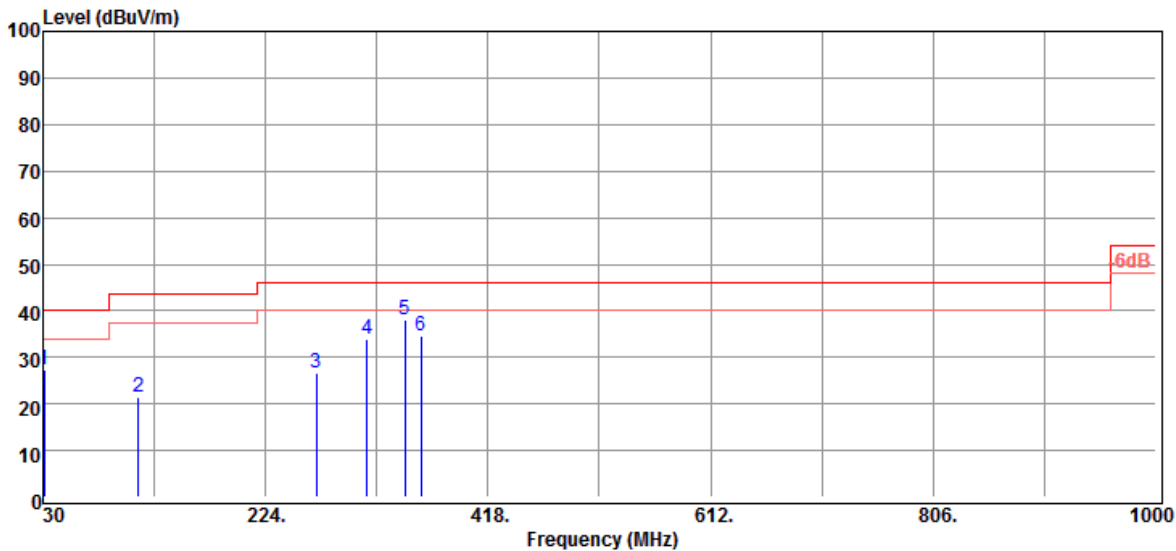
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	Peak	49.24	-17.77	31.47	40.00	-8.53
312.27	Peak	47.48	-9.47	38.01	46.00	-7.99
345.25	Peak	47.00	-8.51	38.49	46.00	-7.51
359.80	Peak	47.03	-8.03	39.00	46.00	-7.00
790.48	Peak	31.58	0.28	31.86	46.00	-14.14
935.01	Peak	29.99	2.22	32.21	46.00	-13.79

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



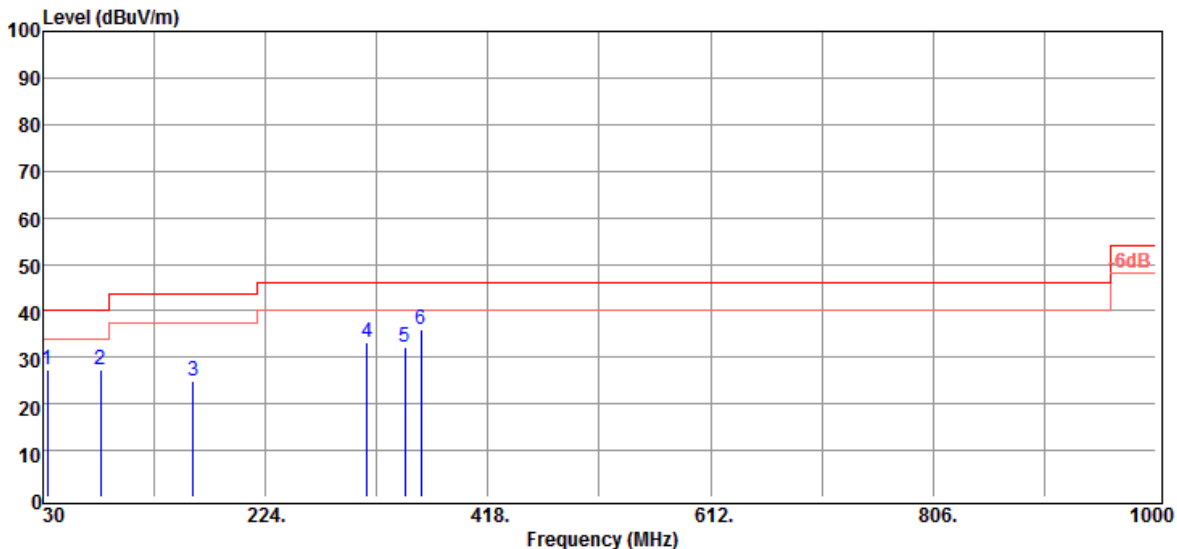
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	30.13	-2.64	27.49	40.00	-12.51
113.42	Peak	35.06	-13.45	21.61	43.50	-21.89
268.62	Peak	37.19	-10.48	26.71	46.00	-19.29
312.27	Peak	43.44	-9.47	33.97	46.00	-12.03
345.25	Peak	46.51	-8.51	38.00	46.00	-8.00
359.80	Peak	42.56	-8.03	34.53	46.00	-11.47

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



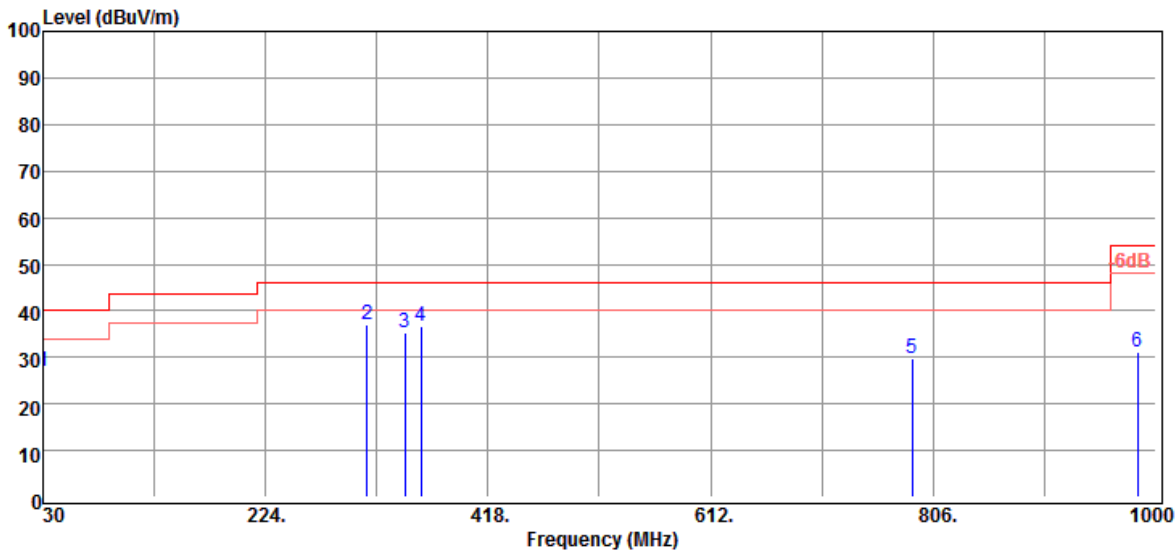
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	31.74	-4.29	27.45	40.00	-12.55
80.44	Peak	44.63	-17.21	27.42	40.00	-12.58
160.95	Peak	39.15	-14.25	24.90	43.50	-18.60
312.27	Peak	42.56	-9.47	33.09	46.00	-12.91
345.25	Peak	40.58	-8.51	32.07	46.00	-13.93
359.80	Peak	43.97	-8.03	35.94	46.00	-10.06

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	29.24	-2.36	26.88	40.00	-13.12
312.27	Peak	46.54	-9.47	37.07	46.00	-8.93
345.25	Peak	43.88	-8.51	35.37	46.00	-10.63
359.80	Peak	44.63	-8.03	36.60	46.00	-9.40
787.57	Peak	29.26	0.39	29.65	46.00	-16.35
984.48	Peak	28.44	2.85	31.29	54.00	-22.71

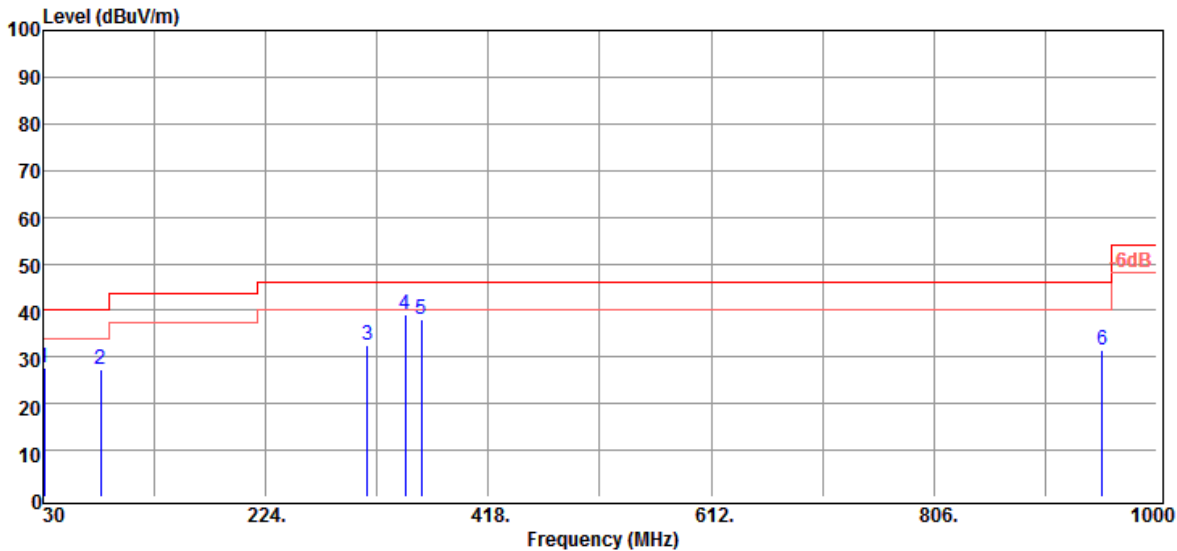
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BLE (2M) mode

Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.97	Peak	29.60	-2.00	27.60	40.00	-12.40
80.44	Peak	42.14	-14.76	27.38	40.00	-12.62
312.27	Peak	39.47	-7.08	32.39	46.00	-13.61
345.25	Peak	45.30	-6.37	38.93	46.00	-7.07
359.80	Peak	44.00	-5.79	38.21	46.00	-7.79
952.47	Peak	25.87	5.66	31.53	46.00	-14.47

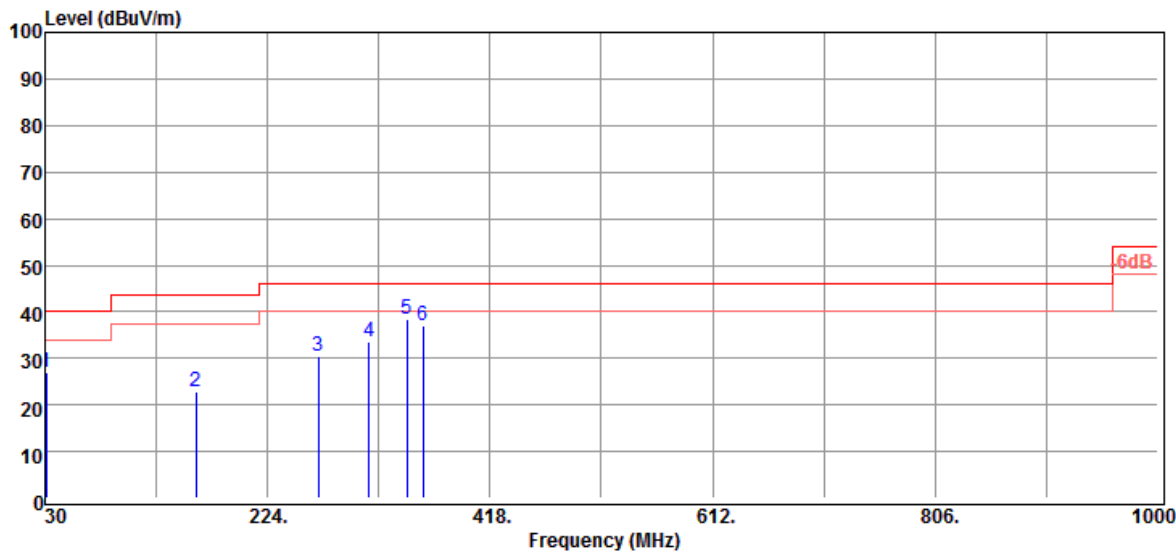
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Operation Mode :BLE (2M)
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Channel :2402 MHz

Test Date :2019-03-13
Temp./Humi. :22/57
Antenna Pol. :HORIZONTAL
Engineer :Jerry



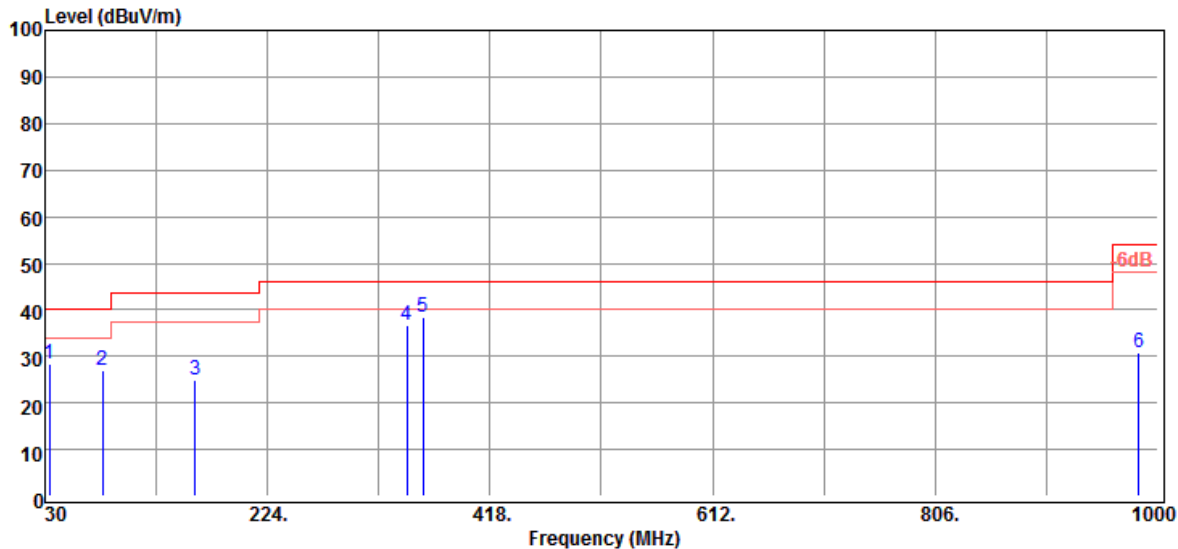
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	28.88	-2.00	26.88	40.00	-13.12
161.92	Peak	32.37	-9.57	22.80	43.50	-20.70
268.62	Peak	38.39	-7.95	30.44	46.00	-15.56
312.27	Peak	40.75	-7.08	33.67	46.00	-12.33
345.25	Peak	44.76	-6.37	38.39	46.00	-7.61
359.80	Peak	42.92	-5.79	37.13	46.00	-8.87

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



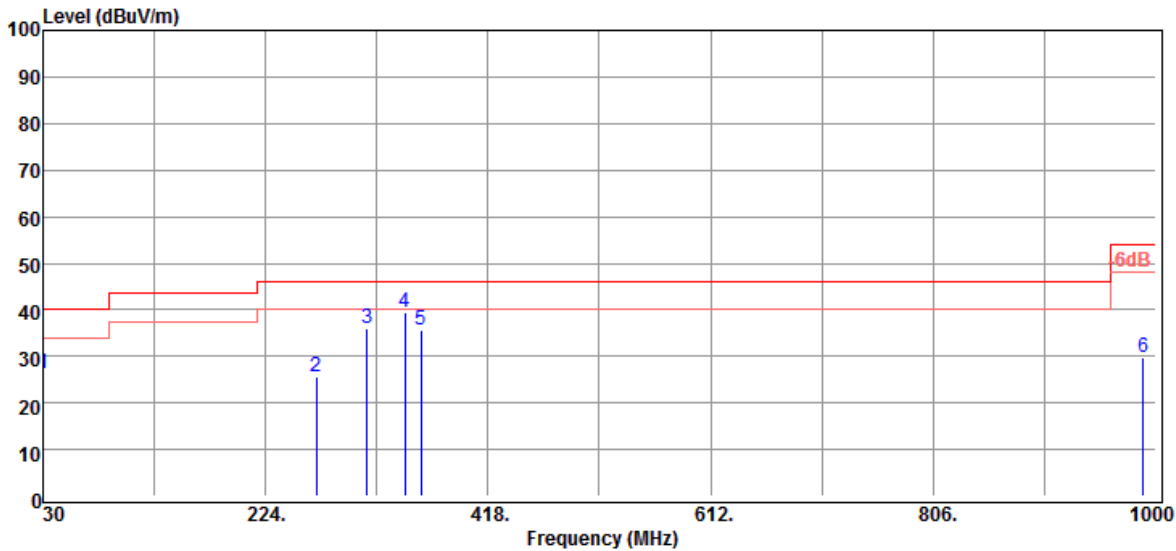
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	32.66	-4.13	28.53	40.00	-11.47
80.44	Peak	41.88	-14.76	27.12	40.00	-12.88
160.95	Peak	34.36	-9.55	24.81	43.50	-18.69
345.25	Peak	43.17	-6.37	36.80	46.00	-9.20
359.80	Peak	44.19	-5.79	38.40	46.00	-7.60
983.51	Peak	24.27	6.49	30.76	54.00	-23.24

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



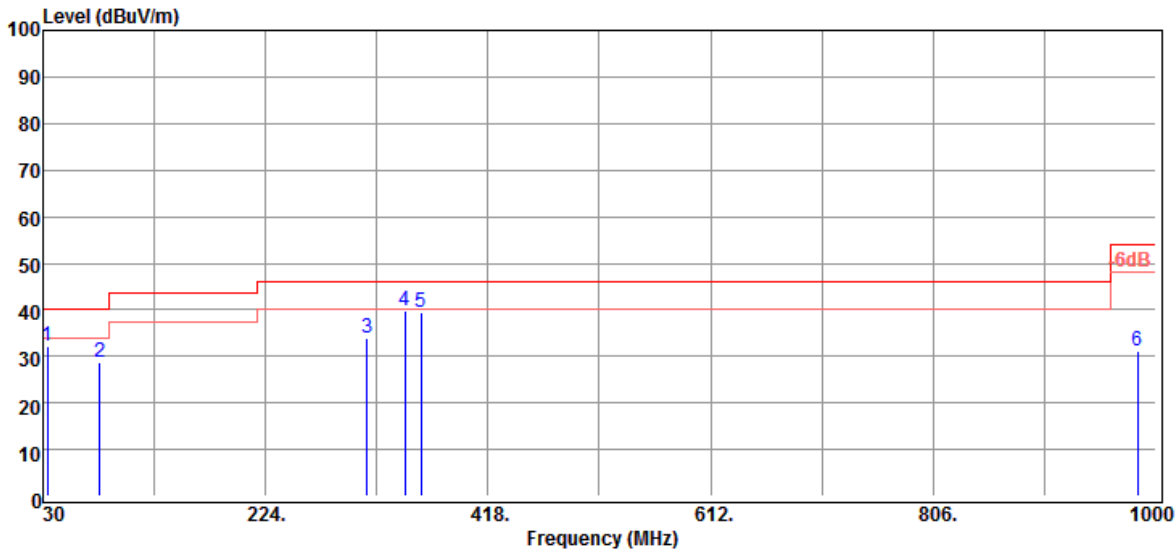
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.00	Peak	27.69	-1.51	26.18	40.00	-13.82
268.62	Peak	33.56	-7.95	25.61	46.00	-20.39
312.27	Peak	42.92	-7.08	35.84	46.00	-10.16
345.25	Peak	45.96	-6.37	39.59	46.00	-6.41
359.80	Peak	41.50	-5.79	35.71	46.00	-10.29
989.33	Peak	23.32	6.44	29.76	54.00	-24.24

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



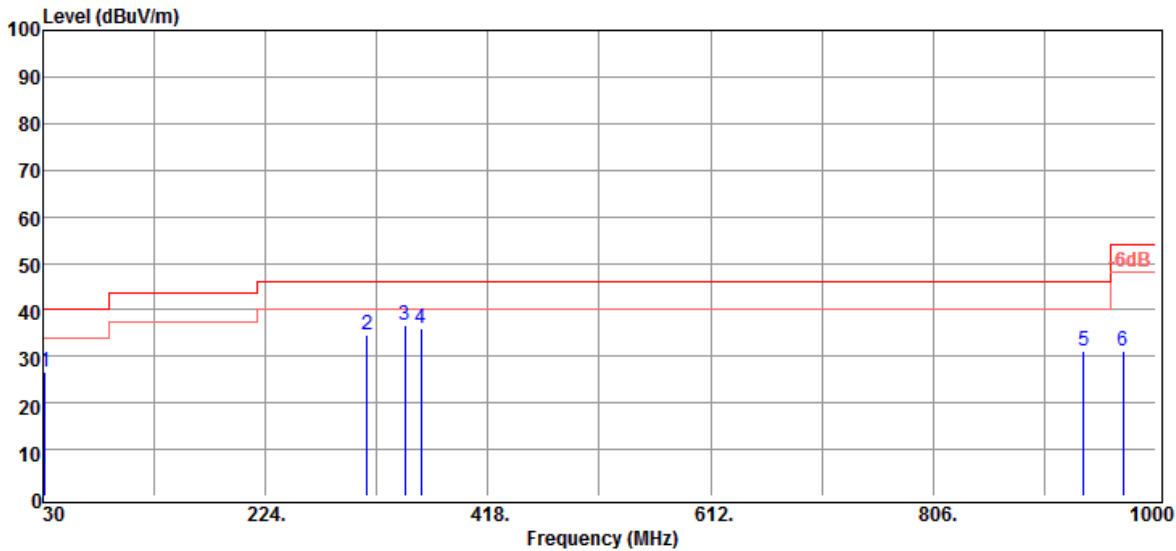
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
33.88	Peak	36.39	-4.13	32.26	40.00	-7.74
79.47	Peak	43.49	-14.63	28.86	40.00	-11.14
312.27	Peak	40.82	-7.08	33.74	46.00	-12.26
345.25	Peak	46.00	-6.37	39.63	46.00	-6.37
359.80	Peak	45.27	-5.79	39.48	46.00	-6.52
984.48	Peak	24.86	6.45	31.31	54.00	-22.69

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
31.94	Peak	29.39	-2.75	26.64	40.00	-13.36
312.27	Peak	41.79	-7.08	34.71	46.00	-11.29
345.25	Peak	43.15	-6.37	36.78	46.00	-9.22
359.80	Peak	41.74	-5.79	35.95	46.00	-10.05
936.95	Peak	26.15	5.06	31.21	46.00	-14.79
971.87	Peak	24.65	6.65	31.30	54.00	-22.70

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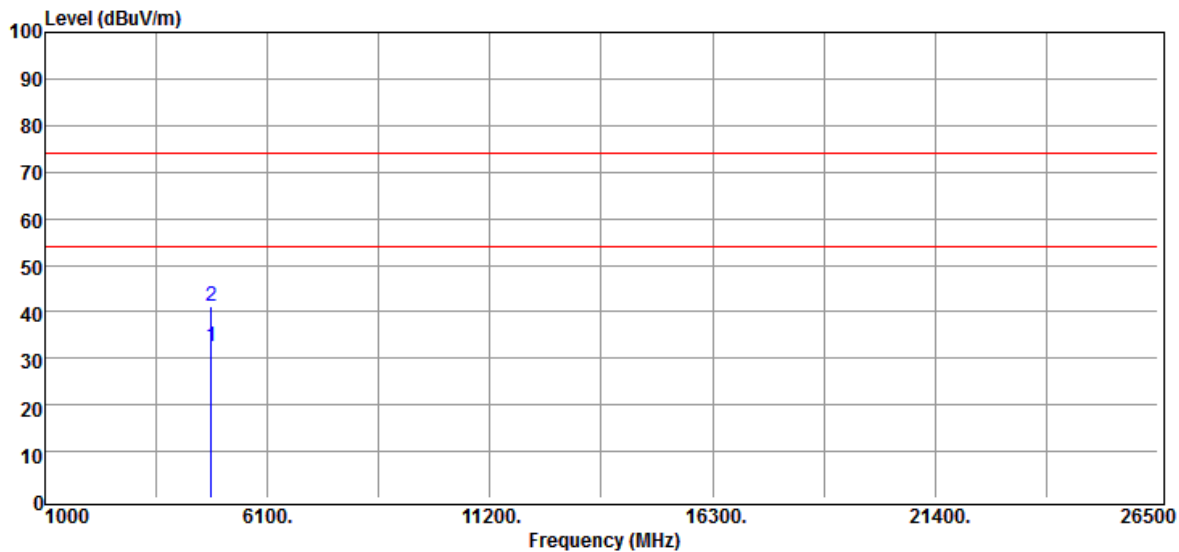
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Radiated Spurious Emission Measurement Result For Frequency above 1GHz

BLE (1M) mode

Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



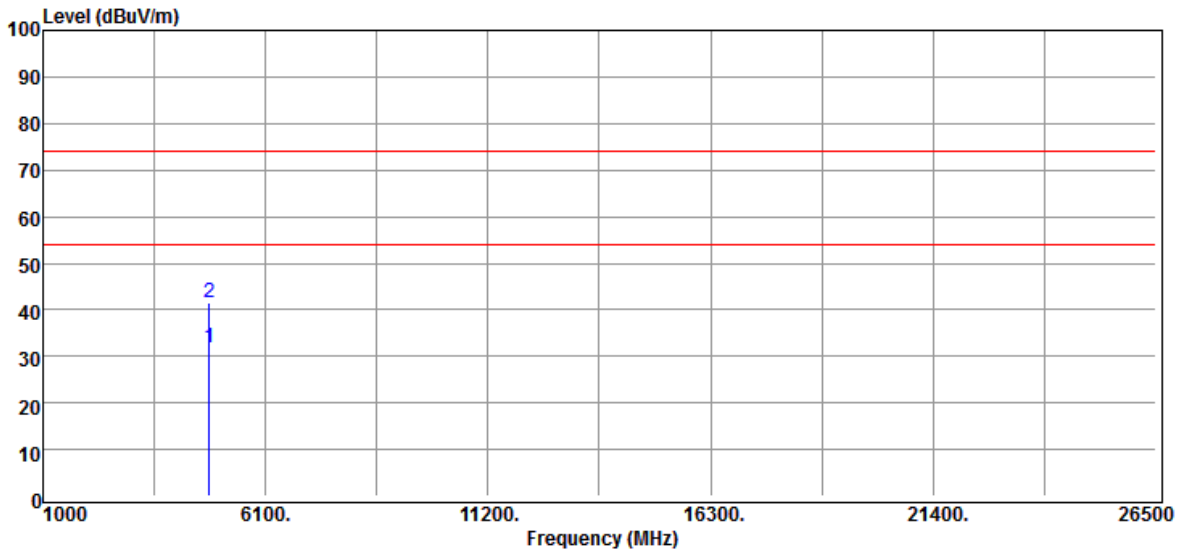
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	29.25	3.11	32.36	54.00	-21.64
4804.00	Peak	38.05	3.11	41.16	74.00	-32.84

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



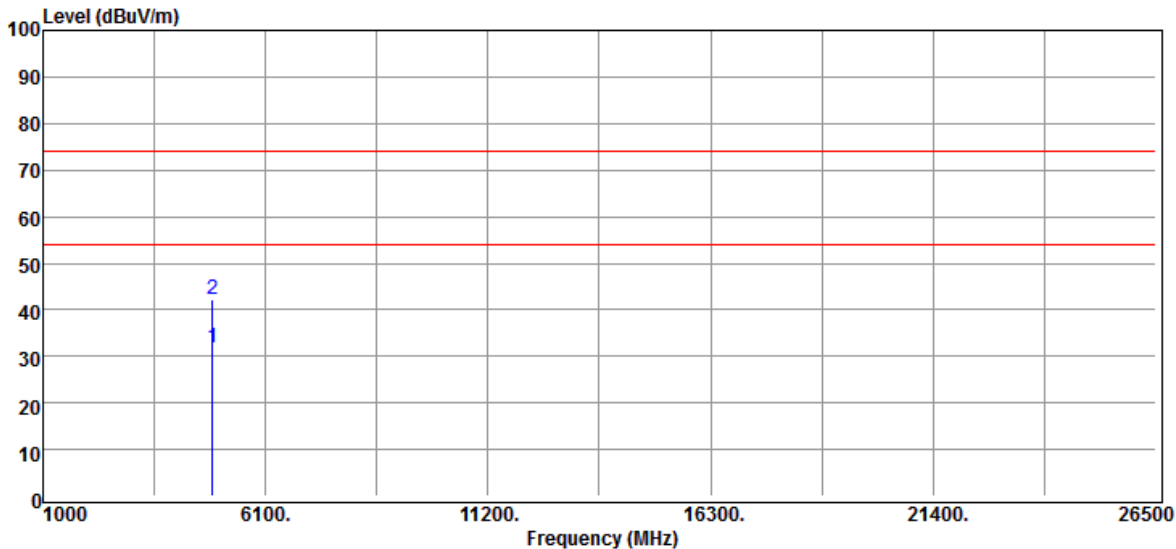
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	28.85	3.11	31.96	54.00	-22.04
4804.00	Peak	38.35	3.11	41.46	74.00	-32.54

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



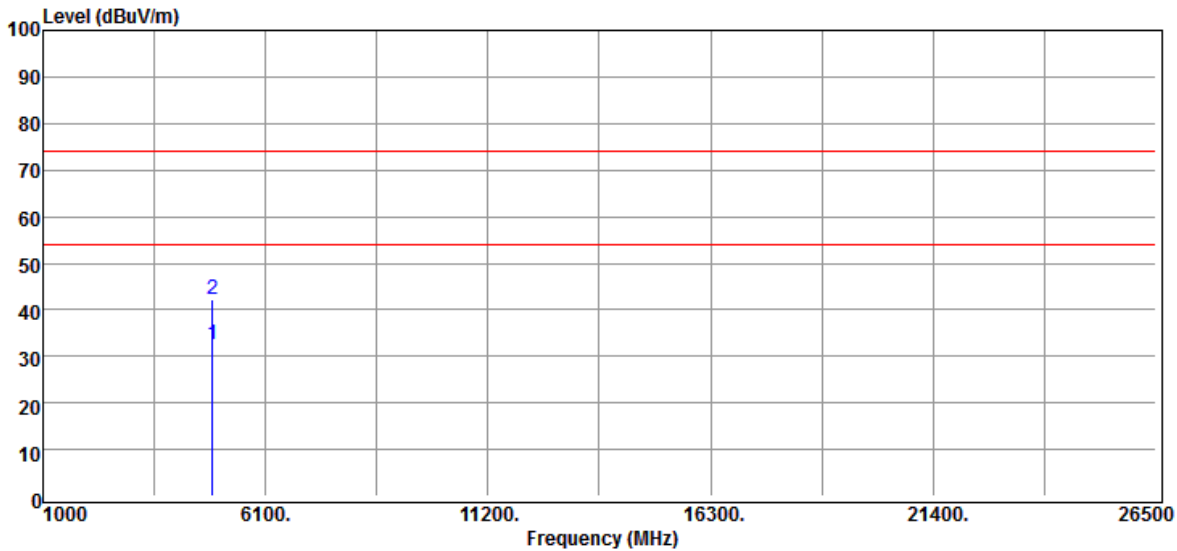
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	28.50	3.47	31.97	54.00	-22.03
4884.00	Peak	38.90	3.47	42.37	74.00	-31.63

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



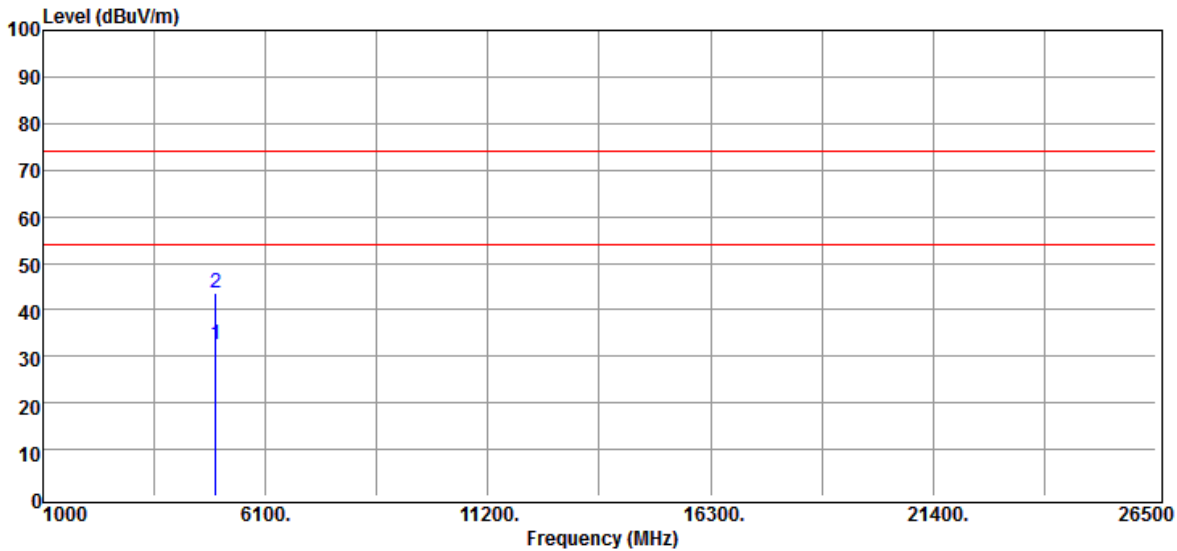
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	28.97	3.47	32.44	54.00	-21.56
4884.00	Peak	38.83	3.47	42.30	74.00	-31.70

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



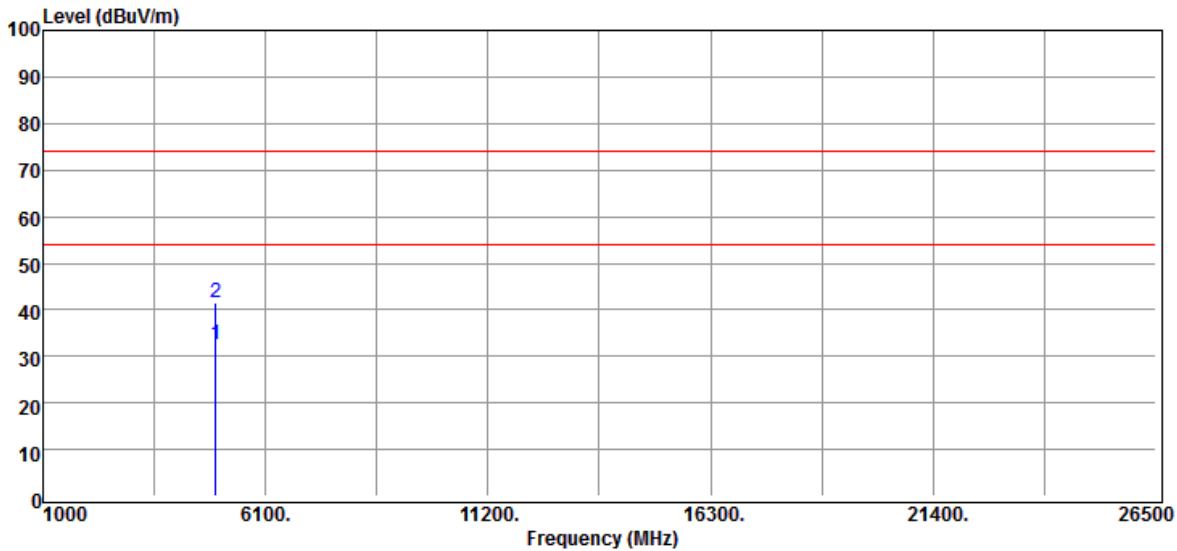
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	28.14	4.48	32.62	54.00	-21.38
4960.00	Peak	39.15	4.48	43.63	74.00	-30.37

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Operation Mode	:BLE	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	28.04	4.48	32.52	54.00	-21.48
4960.00	Peak	37.09	4.48	41.57	74.00	-32.43

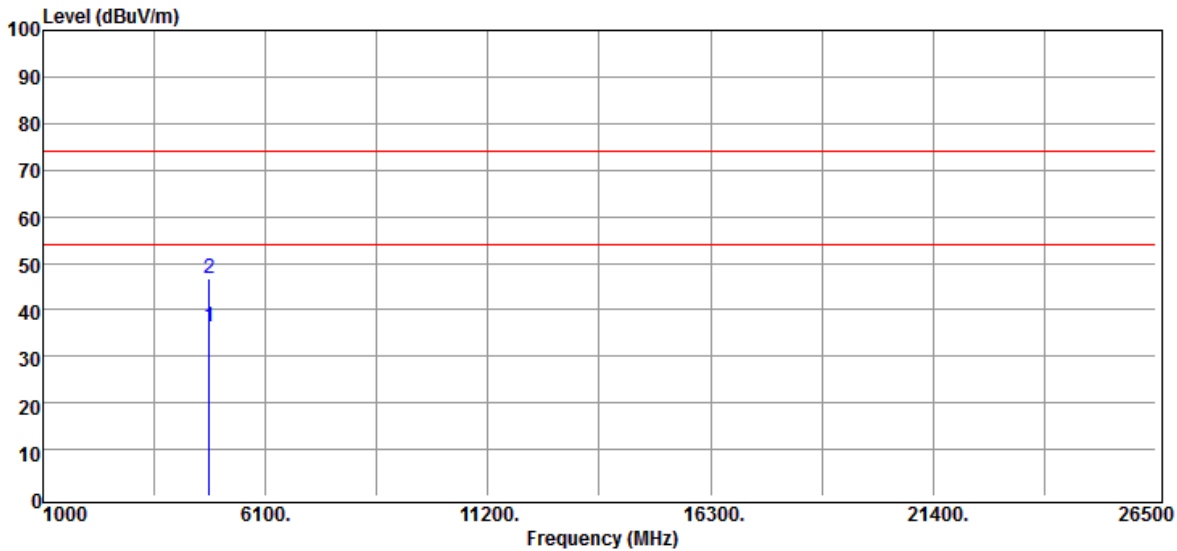
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BLE (2M) mode

Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



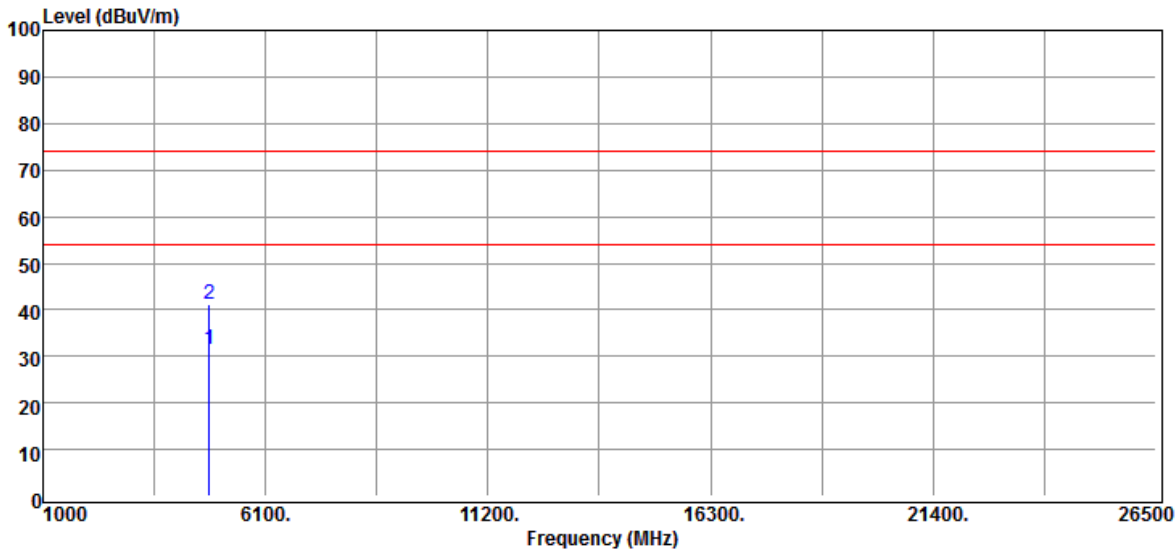
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	33.38	3.11	36.49	54.00	-17.51
4804.00	Peak	43.68	3.11	46.79	74.00	-27.21

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



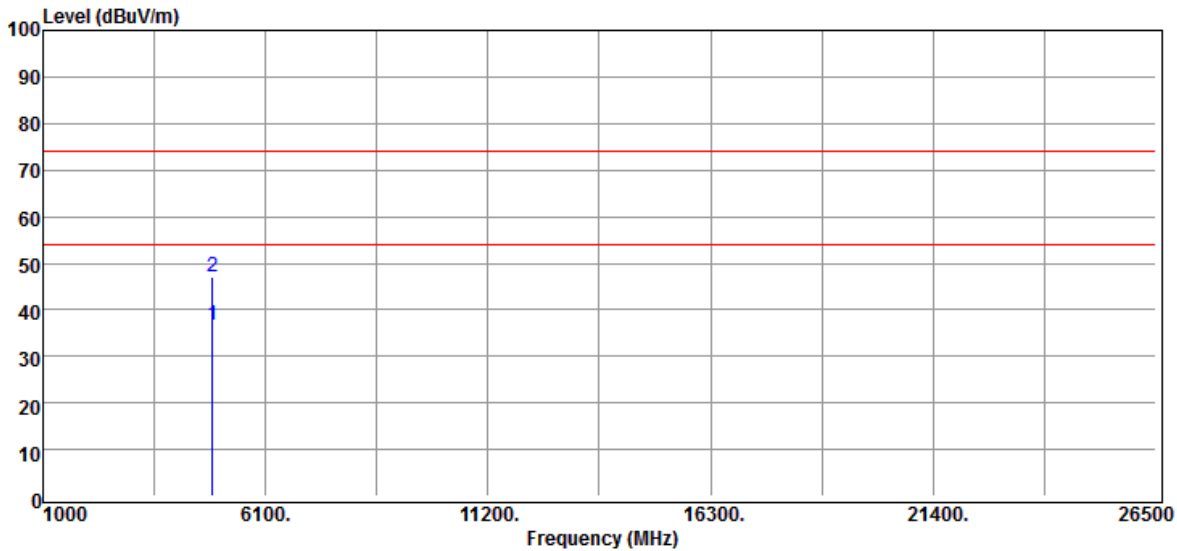
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	28.28	3.11	31.39	54.00	-22.61
4804.00	Peak	38.03	3.11	41.14	74.00	-32.86

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



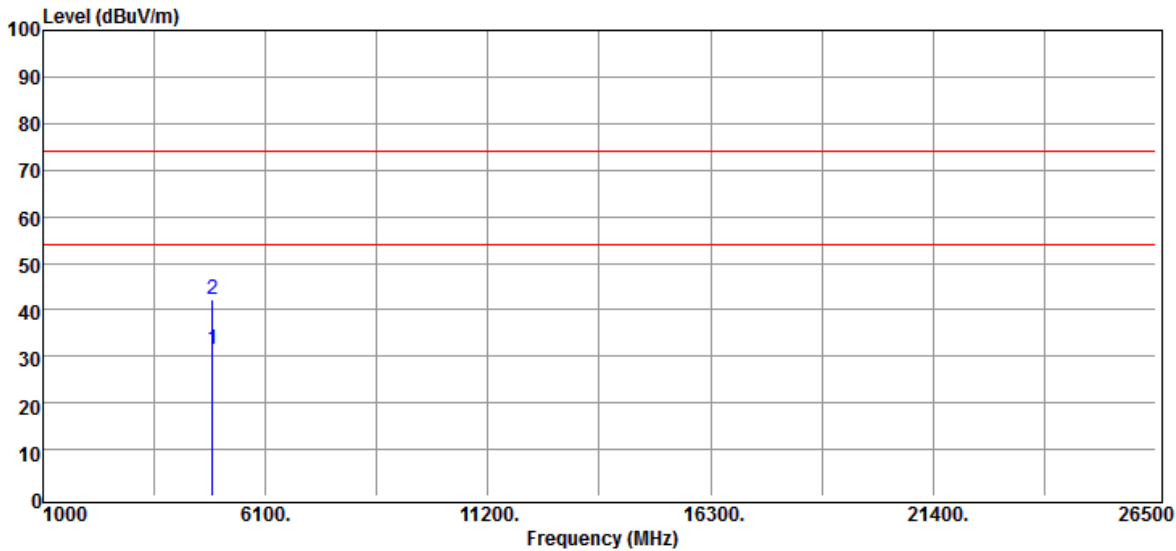
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.00	Average	33.11	3.47	36.58	54.00	-17.42
4884.00	Peak	43.57	3.47	47.04	74.00	-26.96

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



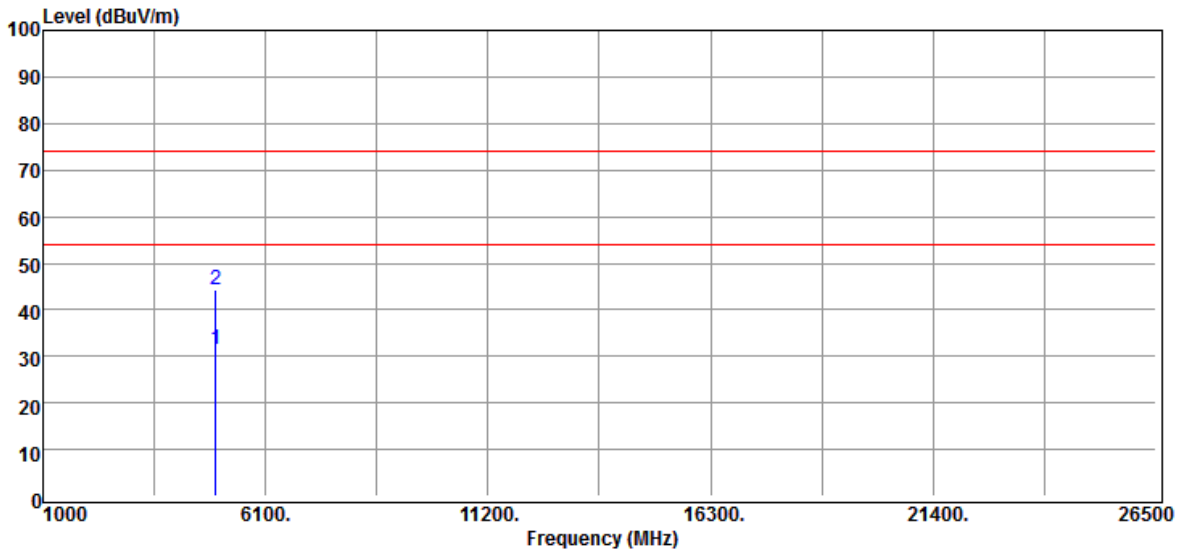
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.00	Average	28.00	3.47	31.47	54.00	-22.53
4884.00	Peak	38.76	3.47	42.23	74.00	-31.77

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



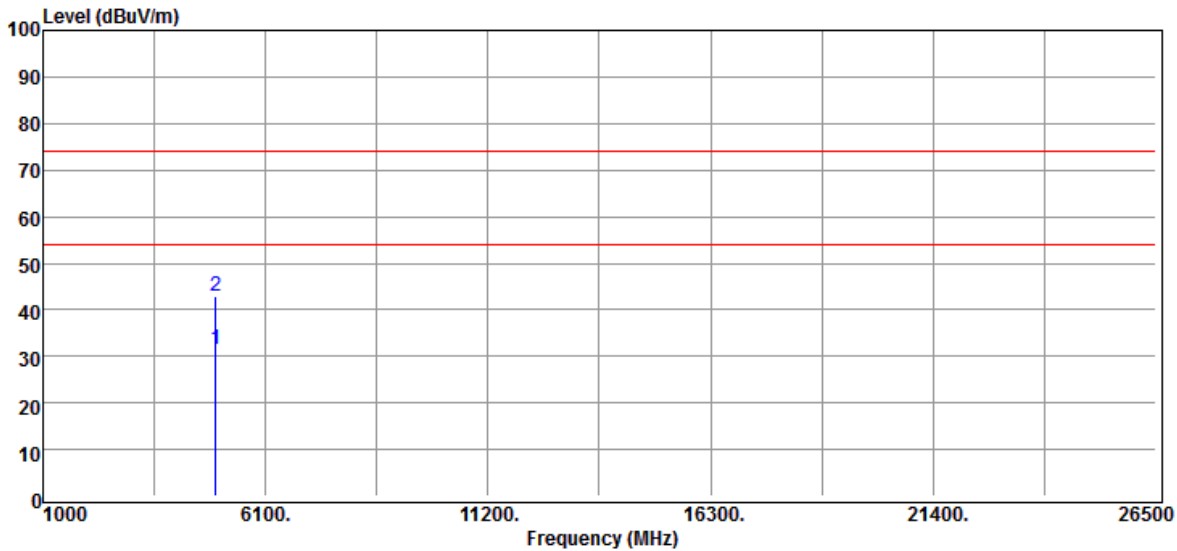
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	27.07	4.48	31.55	54.00	-22.45
4960.00	Peak	39.65	4.48	44.13	74.00	-29.87

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Operation Mode	:BLE (2M)	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	27.10	4.48	31.58	54.00	-22.42
4960.00	Peak	38.35	4.48	42.83	74.00	-31.17

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11 POWER SPECTRAL DENSITY

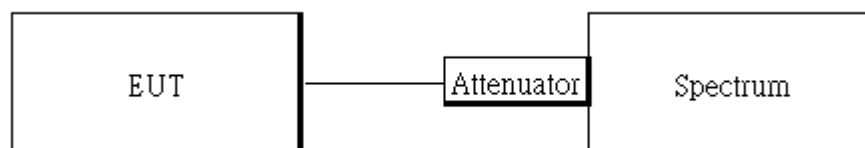
11.1 Standard Applicable:

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

11.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

11.3 Test Set-up:



11.4 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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11.5 Measurement Result:

BLE (1M) mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-7.88	8	PASS
2442	-8.73	8	PASS
2480	-9.49	8	PASS

NOTE: cable loss as 1.2dB that offsets in the spectrum

BLE (2M) mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-11.74	8	PASS
2442	-14.50	8	PASS
2480	-12.94	8	PASS

NOTE: cable loss as 1.2dB that offsets in the spectrum

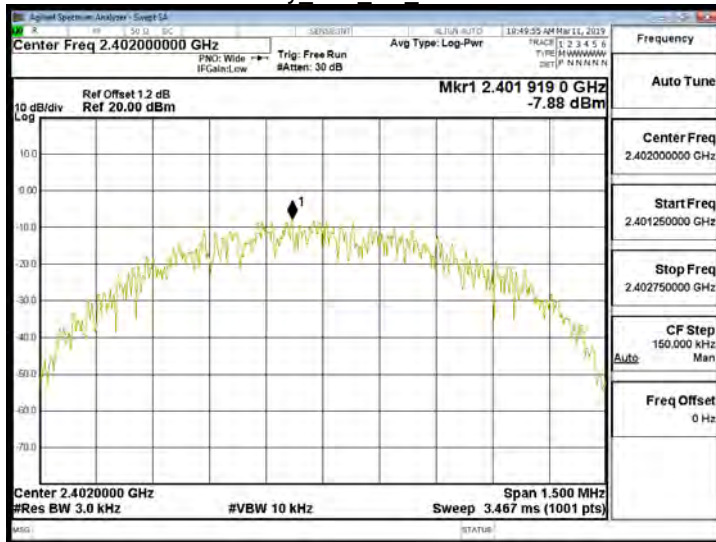
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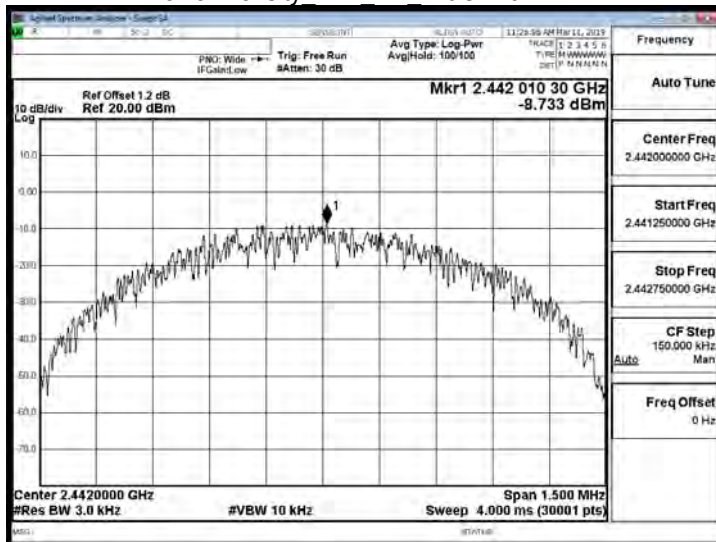
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BLE (1M) mode

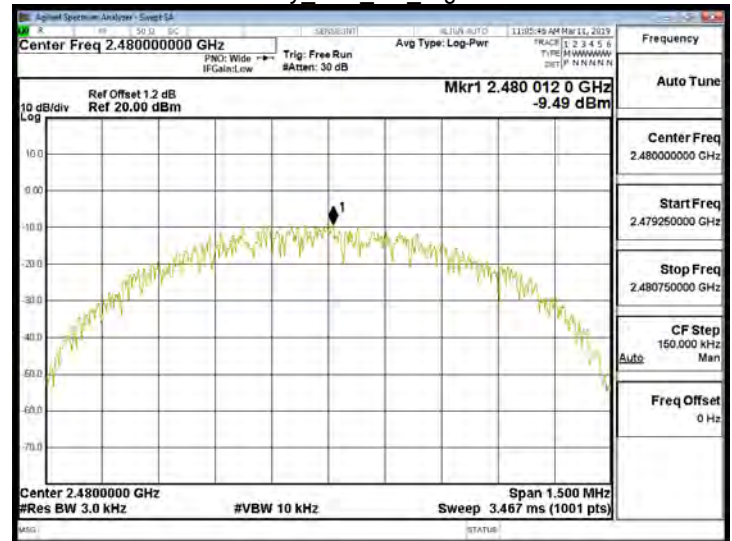
Power Density BLE 1M LowCH00-2402



Power Density BLE 1M MidCH20-2442



Power Density BLE 1M HighCH39-2480



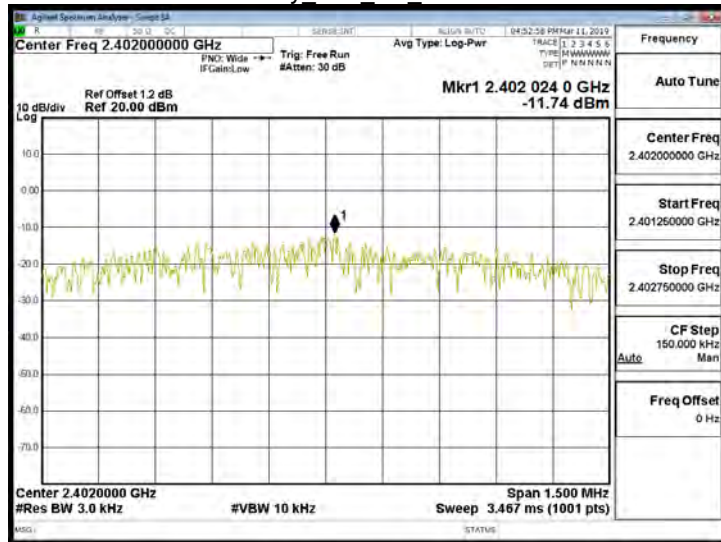
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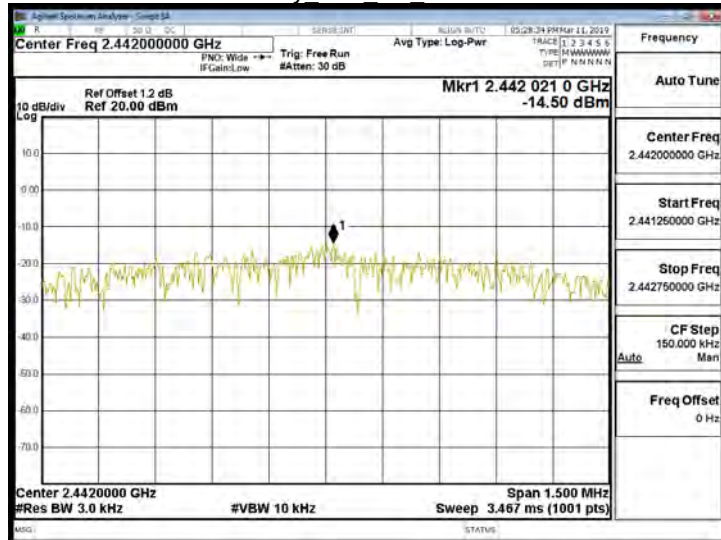
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BLE (2M) mode

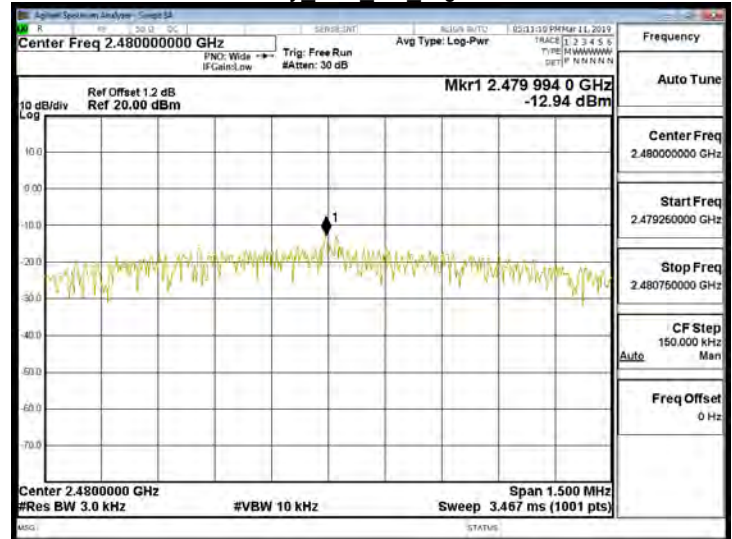
Power Density BLE 2M LowCH00-2402



Power Density BLE 2M MidCH20-2442



Power Density BLE 2M HighCH39-2480



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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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

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

12.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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