

## TEST REPORT

On behalf of

Signify (China) Investment Co., Ltd.

Product Name: Sensor

Model No.: SC100B/02 SR Transceiver WH

FCC ID: 2AGBWSC100B

Prepared For: Signify (China) Investment Co., Ltd.  
Building no.9, Lane 888, Tianlin Road, Minhang District,  
Shanghai 200233, China

Prepared By: Audix Technology (Shanghai) Co., Ltd.  
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File No. : C1D2401016  
Report No. : ACI-F24033  
Date of Test : 2024.01.31-02.24  
Date of Report : 2024.02.28

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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## TEST REPORT

Applicant : Signify (China) Investment Co., Ltd.  
EUT Description : Sensor  
(A) Model No. : Refer to Sec.2.1  
(B) Power Supply : 12 to 22Vdc  
(C) Test Voltage : DC 16V (From DALI Extender)

### Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C  
AND ANSI C63.10-2013*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec2.1), which was tested is technically compliance with the FCC limits.

This report applies to above tested Sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

***The test results for EUT's ZigBee function are contained in No.ACI-F24034 report.***

Date of Test : 2024.01.31-02.24 Date of Report : 2024.02.28

Producer : Huimin Yan  
HUIMIN YAN / Assistant

Review : Jarey Lu  
JAREY LU / Deputy Assistant Manager

**AUDIX®** For and on behalf of  
Audix Technology (Shanghai) Co., Ltd.

.....  
Authorized Signature(s) Kamp Chen  
KAMP CHEN / Manager

# 1 SUMMARY OF STANDARDS AND RESULTS

## 1.1 Description of Standards and Results

The result is determined according to the decision rules of customer selection in the ASC-403 application service form.

1. According to IEC GUIDE 115 Procedure 2 and ILAC-G8, the uncertainties value is not used in determining the PASS/FAIL results.

2. If the required specification or standard already contains the decision rules, it will be carried out in accordance with the regulations or standard documents or the requirements of the competent units. If the required specification or standard does not contain a decision rule, the same paragraph 1.

3. If your company has a required decision rule, it will be implemented in accordance with the requirements and ISO/IEC Guide 98-4 specifications.

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
<b>EMISSION</b>			
Conducted Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	N/A	15.207
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.209(a) 15.205(a)(c)
6 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(a)(2)
Maximum Peak Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(b)(3)
Emission Limitations Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(d)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(d)
Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(e)
Antenna Requirement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.203
N/A is an abbreviation for Not Applicable.			

## 2 GENERAL INFORMATION

### 2.1 Description of Equipment Under Test

Description : Sensor

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model Number : SC100B/02 SR Transceiver WH

Radio Tech : BLE 5.0;  
Zigbee.

Channel Freq. : BLE: 2402MHz-2480MHz;  
Zigbee: 2405MHz-2480MHz;

Modulation : BLE: GFSK;  
Zigbee: QOPSK;

Antenna Info. : Antenna Type: PCB Antenna  
Antenna Gain: 1.6 dBi

Applicant : Signify (China) Investment Co., Ltd.  
Building no.9, Lane 888, Tianlin Road, Minhang District,  
Shanghai 200233, China

## 2.2 EUT Specifications Assessed in Current Report

Mode	Modulation	Data Rate(Mbps)
BLE	GFSK	Up to 2

Channel List			
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
...	...	...	...
...	...	...	...
...	...	...	...
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

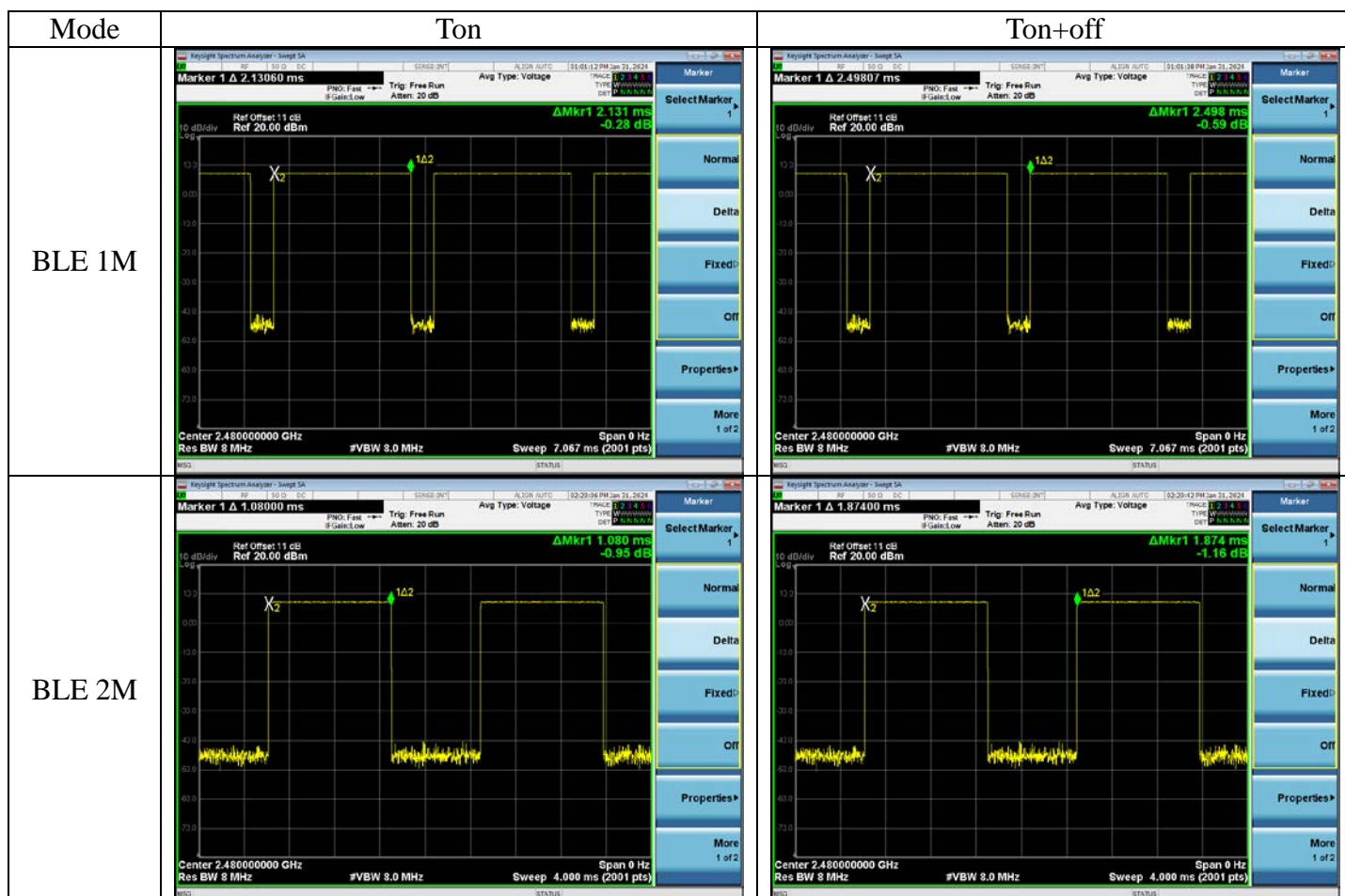
## 2.3 Test Information

The test software “ Docklight.exe” was used to control EUT work in TX mode, Power Setting and select test channel.

Mode	data rate (Mbps)	Power Setting	Test Channel		Frequency (MHz)
BLE 1M	1	7	Low:	00	2402
		7	Middle:	20	2442
		7	High:	39	2480
BLE 2M	2	7	Low:	00	2402
		7	Middle:	20	2442
		7	High:	39	2480

## 2.4 Duty Cycle Check

Mode	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)
BLE 1M	2.131	2.498	85.31
BLE 2M	1.08	1.874	57.63





## 2.5 Sample Description

Test Item	Model Number	Sample Number	Date of receipted
Radiated Emission	SC100B/02 SR Transceiver WH	E20240130065a-01/02	2024.01.30
Conducted RF Test	SC100B/02 SR Transceiver WH	E20240130065a-02/02	2024.01.30

## 2.6 Supported equipment

Brand : Acer  
Product Name: : Notebook PC  
Model Name : TravelMate P238 series  
Model Number : N15W8

Product Name : Test Fixture  
Mode Number : WSTK JLINK  
Product Function : USB to TTL

Brand : PHILIPS  
Product Name: : DALI Extender  
Model Name : 9137010662

## 2.7 Description of Test Facility

Name of Firm : Audix Technology (Shanghai) Co., Ltd.  
Site Location : 3F, Building 34, No. 680 Guiping Rd.,  
Caohejing, Hi-Tech Park,  
Shanghai 200233, China  
Accredited by NVLAP, Lab Code : 200371-0  
FCC Designation Number : CN5027  
Test Firm Registration Number : 954668

### 3 RADIATED EMISSION TEST

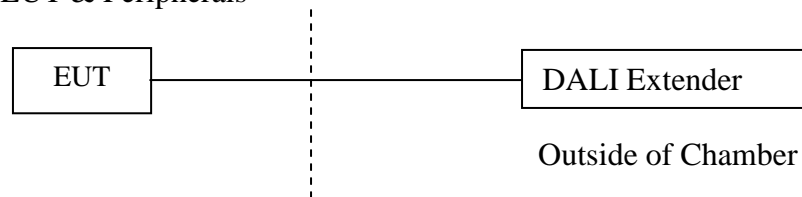
#### 3.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

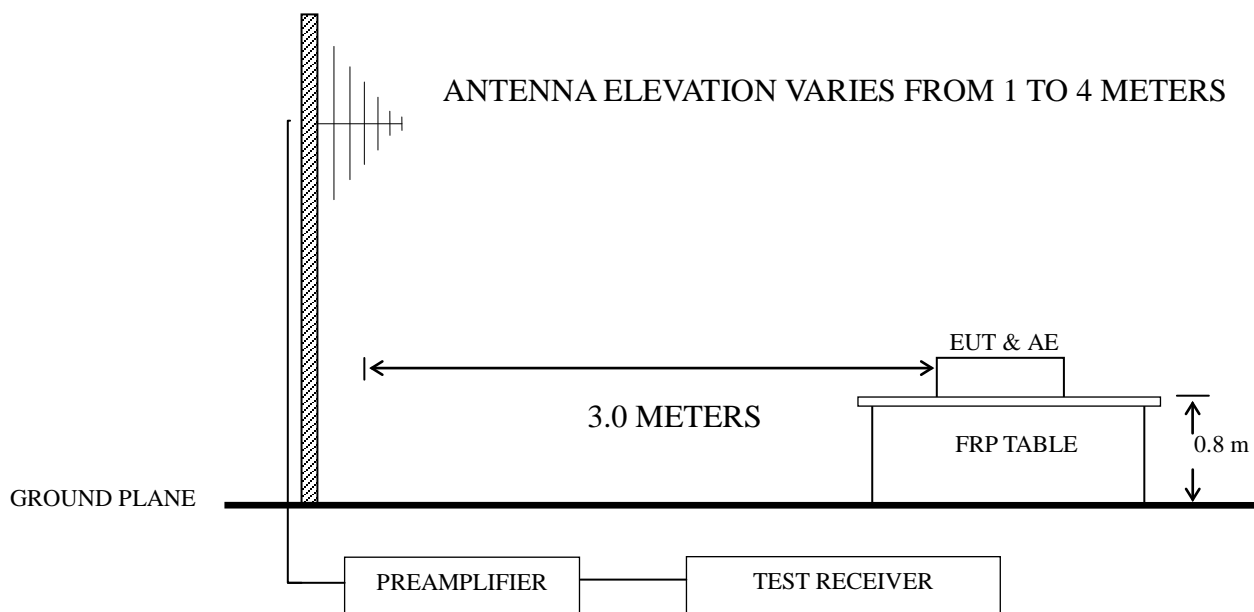
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2024.02.22	1 Year
2.	Preamplifier	HP	8449B	3008A00864	2024.02.22	1 Year
3.	EXA Signal Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
4.	Test Receiver	R&S	ESCI	101303	2024.02.22	1 Year
5.	Bilog Antenna+6dB Attenuator	Schwarzbeck	VULB 9168+EMCI-N-6-06	707+AT-N0637	2023.08.09	1 Year
6.	Horn Antenna	EMCO	3115	96074878	2023.08.02	1 Year
7.	Horn Antenna	EMCO	3116	00062643	2023.01.30	2 Year
8.	Cavity Band Rejection Filter	Microwave	WT-A3882-R10	WT200312-1-1	2024.02.22	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6200655086	2024.02.22	1 Year
10.	Coaxial Cable	SCHAFFNER	RG 212U-MIL C 17+N1K50-E W0630-N1K50-15m-1	RE-10m-001/ RE-15m-002	2024.02.22	1 Year
11.	Software	Audix	e3	v9.210616	--	--

## 3.2 Block Diagram of Test Setup

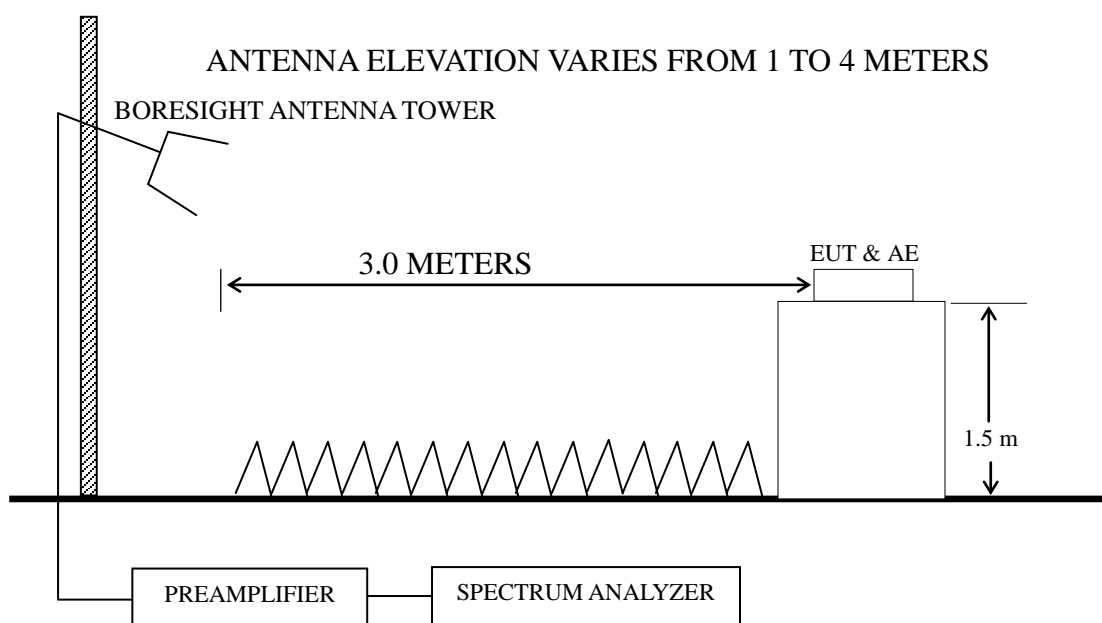
### 3.2.1 EUT & Peripherals



### 3.2.2 Below 1GHz



### 3.2.3 Above 1GHz



### 3.3 Radiated Emission Limit (§15.209)

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz. NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT			

### 3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.4.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

### 3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Disconnect the wire between DALI Extender and EUT.

3.5.3 Plug Test Fixture to EUT through HCI cable.

3.5.4 Use the software as section 2.3 to select the test mode, then disconnect the Test Fixture from EUT, remove the Test Fixture and Notebook PC.

3.5.5 Then connect the wire between DALI Extender and EUT, turn EUT on, then test.

3.5.6 Repeat step 3.5.2 and 3.5.5, until the test of all modes finished.

### 3.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable. Below 1 GHz, the table height is 80 cm above the reference ground plane. Above 1 GHz, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down

between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2013 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of Agilent N9010A was set at 1MHz for above 1GHz.

The frequency range from 30 MHz to 25 GHz (Up to 10<sup>th</sup> harmonics from fundamental frequency) was checked.

All the test results are listed in Sec.3.7.

### 3.7 Test Results

#### <PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Frequency range: below 1GHz (Worst case emission)

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	BLE 1M	00	2402MHz	P15-16
2.	Transmitting	BLE 2M	00	2402MHz	P17-18

Frequency range: above 1GHz

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	BLE 1M	00	2402 MHz	P19-20
2.			20	2442 MHz	P21-22
3.			39	2480 MHz	P23-24
4.	Transmitting	BLE 2M	00	2402 MHz	P25-26

Band-Edge and Restricted bands:

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	BLE 1M	00	2402 MHz	P27-28
2.			39	2480 MHz	P29-30
4.		BLE 2M	00	2402 MHz	P31-32
5.			39	2480 MHz	P33-34

NOTE 1 – Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin = Limits - Emission Level.

NOTE 2 – “QP” means “Quasi-Peak” values.

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Lying direction, for this direction was the maximum emission direction during the test. The data of Side & Standing direction are too low against the official limit to be reported.

NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

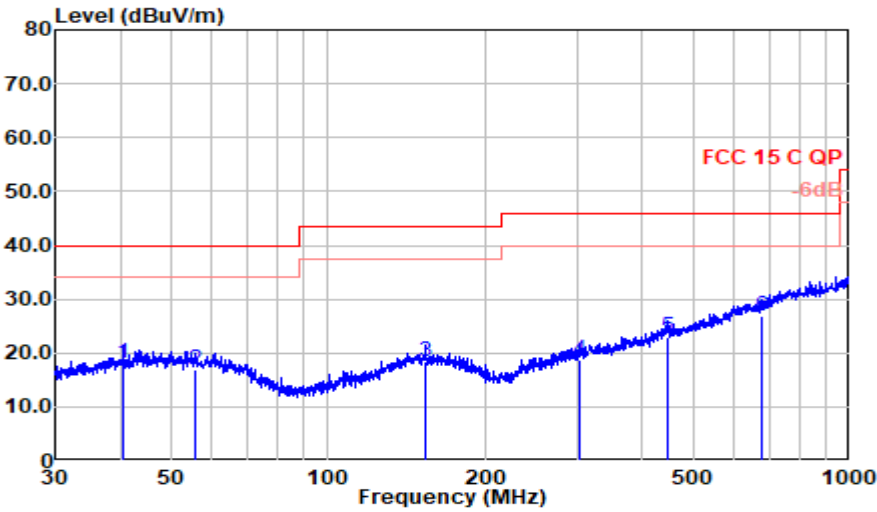
For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

NOTE 7 – The frequency range 2310-2390MHz & 2483.5-2500MHz were tested for Restricted bands.

Radiated emission < 1GHz

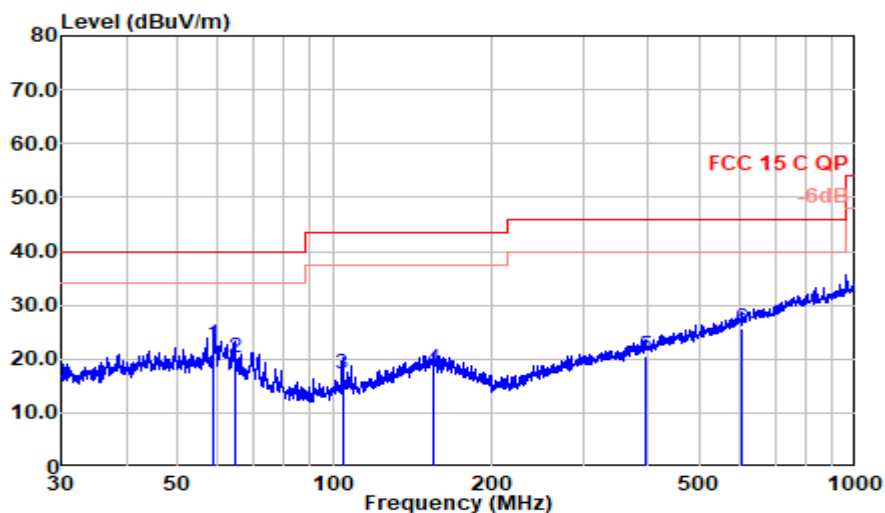
Test Date:	2024.02.24	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: BLE1M CH2402MHz



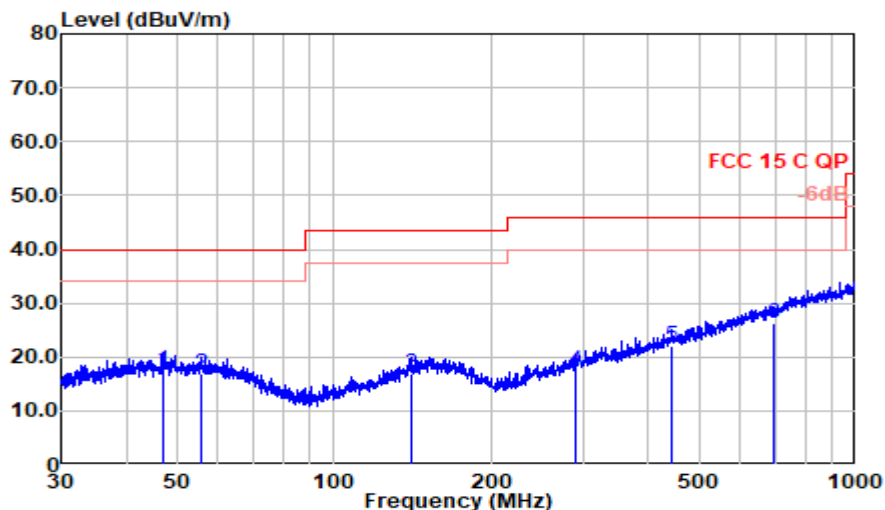
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
40.488	27.69	19.60	0.70	29.90	18.09	40.00	21.91	QP
55.805	26.42	19.62	0.81	29.88	16.97	40.00	23.03	QP
154.008	27.27	19.30	1.36	29.39	18.55	43.50	24.95	QP
302.481	26.28	19.25	1.93	28.71	18.75	46.00	27.25	QP
449.556	26.77	23.00	2.34	29.30	22.81	46.00	23.19	QP
678.769	25.98	26.55	2.89	28.62	26.80	46.00	19.20	QP

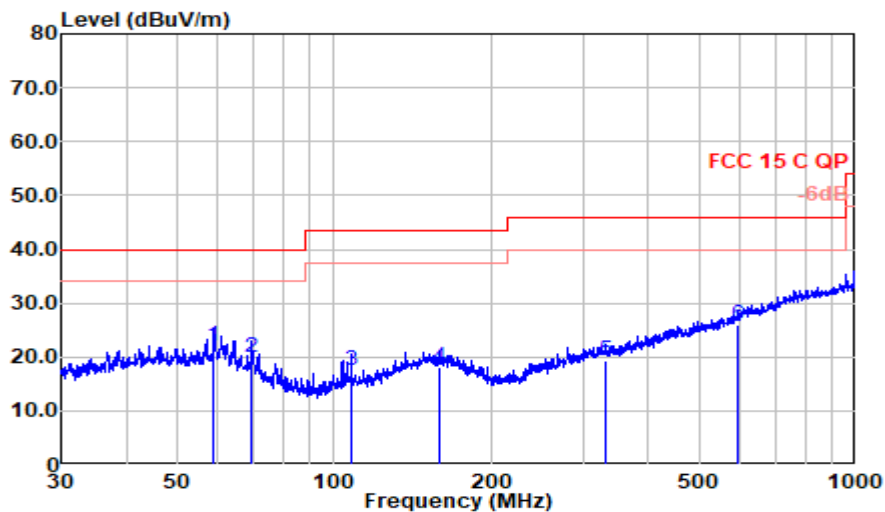
**Mode: BLE1M CH2402MHz****Polarization at Vertical**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
58.819	32.59	19.22	0.84	29.87	22.77	40.00	17.23	QP
64.433	30.83	18.46	0.87	29.85	20.31	40.00	19.69	QP
103.806	30.40	15.26	1.18	29.68	17.16	43.50	26.34	QP
154.821	26.79	19.30	1.37	29.38	18.08	43.50	25.42	QP
395.547	26.03	21.31	2.18	29.08	20.44	46.00	25.56	QP
603.539	26.22	25.61	2.83	28.99	25.68	46.00	20.32	QP



**Mode: BLE2M CH2402MHz****Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
46.912	26.46	20.09	0.75	29.90	17.40	40.00	22.60	QP
55.707	26.33	19.63	0.81	29.88	16.89	40.00	23.11	QP
140.342	26.23	18.80	1.30	29.46	16.87	43.50	26.63	QP
289.509	25.31	18.99	1.90	28.75	17.45	46.00	28.55	QP
444.851	26.01	22.99	2.33	29.28	22.05	46.00	23.95	QP
694.417	25.35	26.60	2.90	28.53	26.32	46.00	19.68	QP

**Mode: BLE2M CH2402MHz**

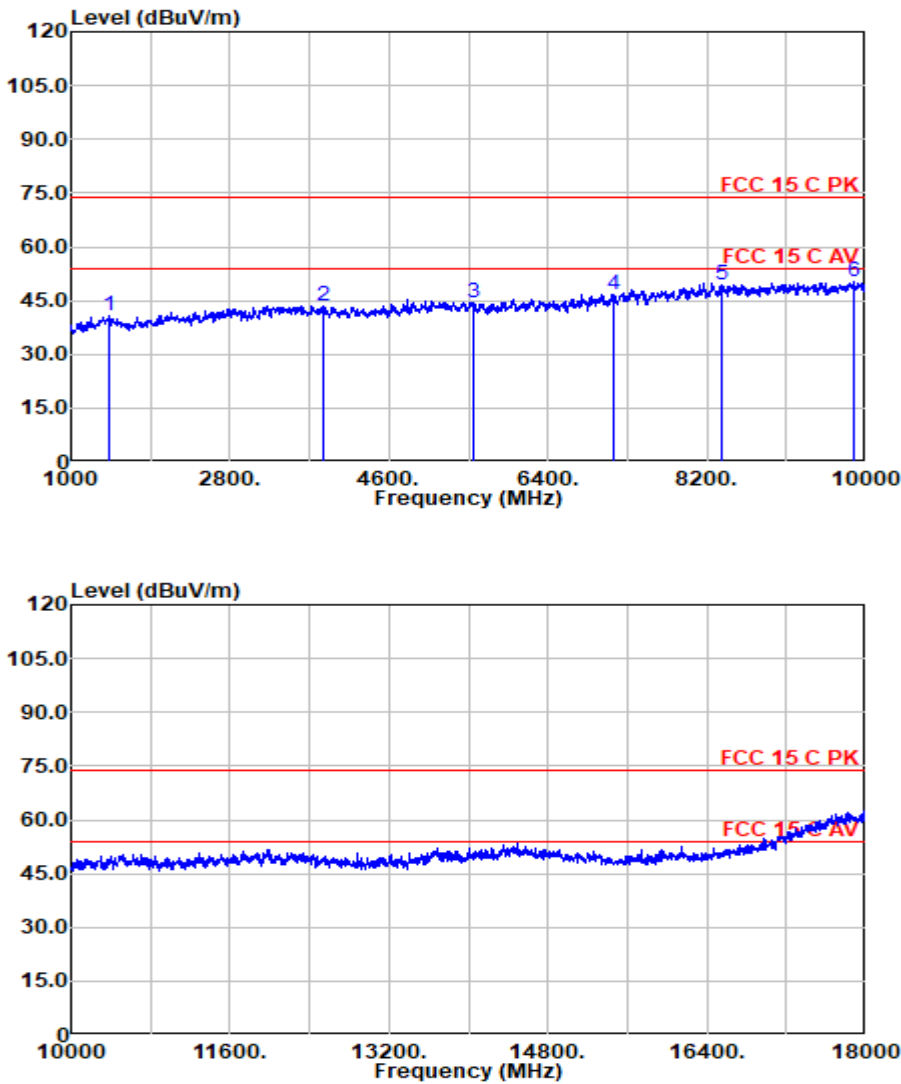
## Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
58.819	31.93	19.22	0.84	29.87	22.12	40.00	17.88	QP
69.600	31.34	17.38	0.90	29.83	19.80	40.00	20.20	QP
107.699	30.34	15.64	1.19	29.66	17.51	43.50	25.99	QP
158.946	26.91	19.30	1.39	29.37	18.23	43.50	25.27	QP
331.936	25.88	20.20	1.98	28.83	19.22	46.00	26.78	QP
595.133	26.72	25.30	2.81	29.02	25.82	46.00	20.18	QP

Radiated Emission > 1GHz

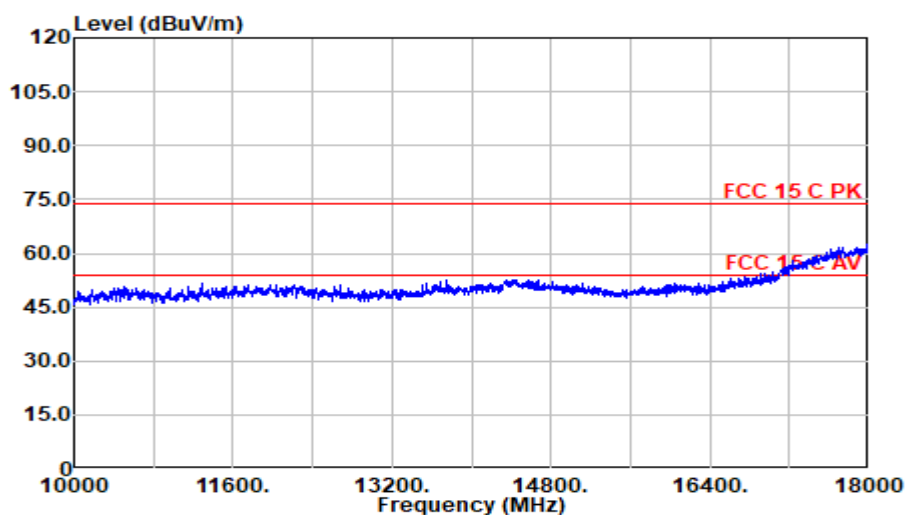
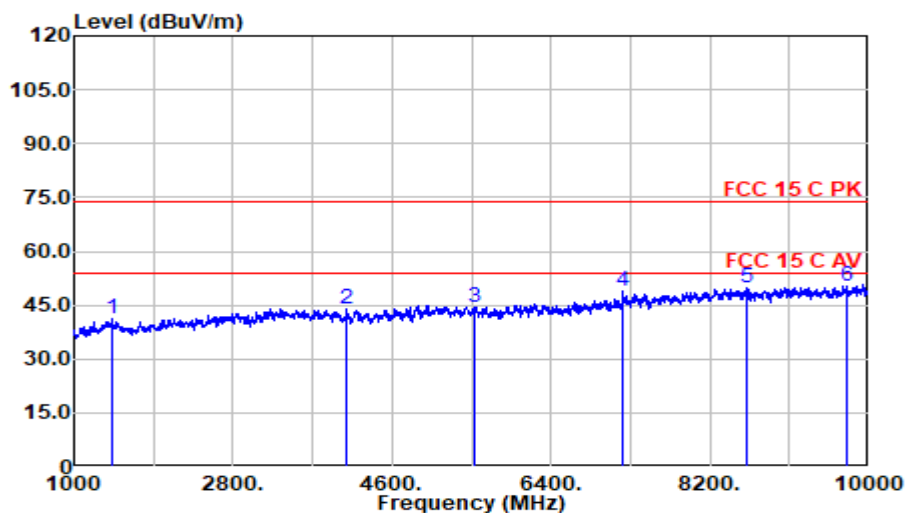
Test Date:	2024.02.24	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: BLE1M CH2402MHz

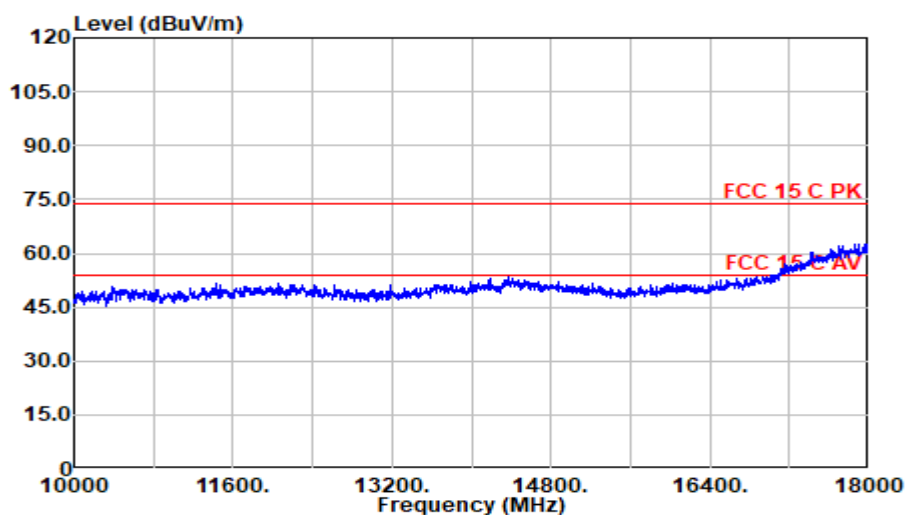
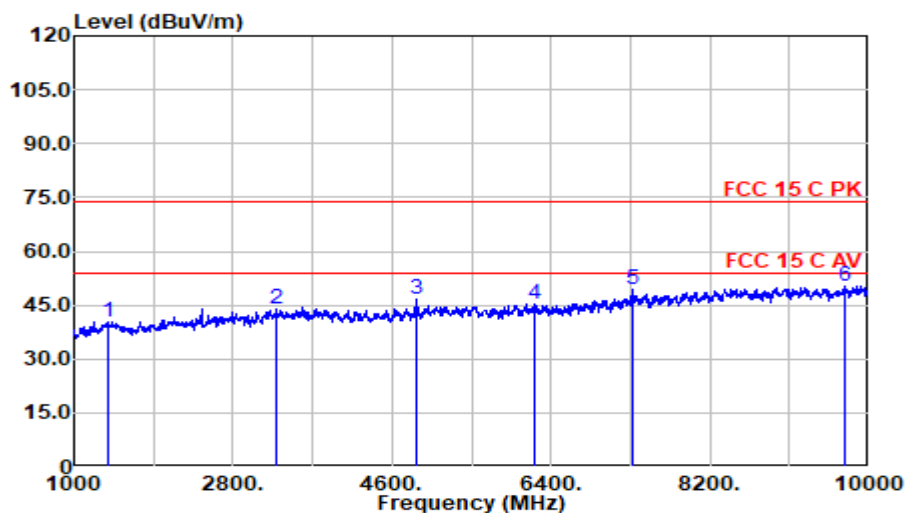


Polarization at Horizontal

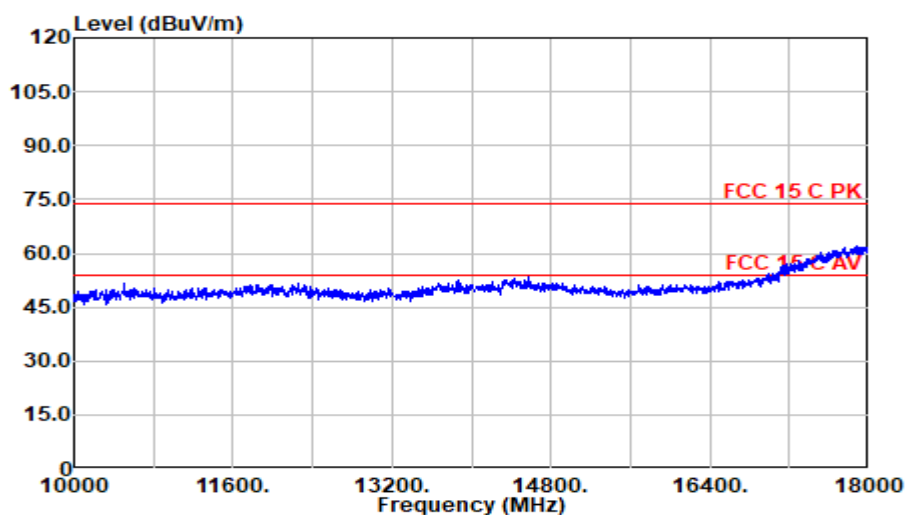
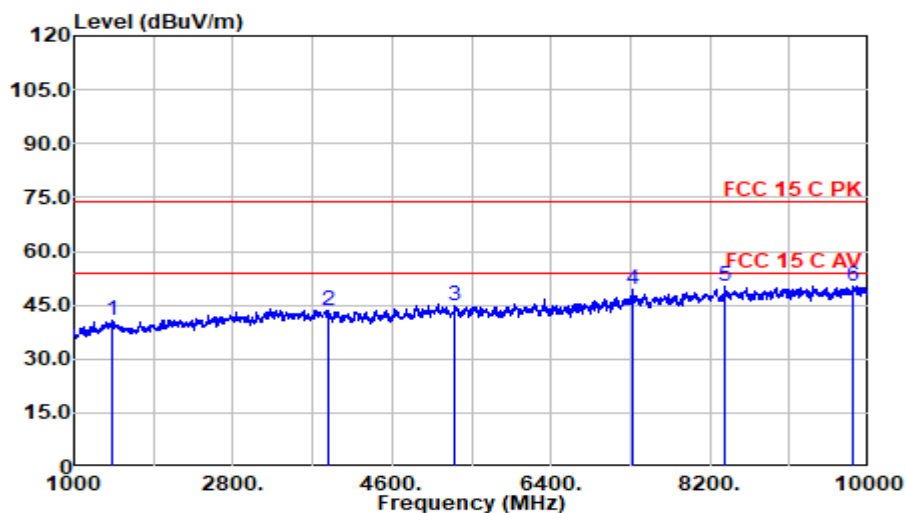
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1423.000	47.01	26.00	4.27	36.50	40.78	74.00	33.22	Peak
3853.000	39.46	32.51	6.64	35.05	43.55	74.00	30.45	Peak
5558.500	36.84	34.08	8.16	34.60	44.48	74.00	29.52	Peak
7133.500	35.93	35.93	9.40	34.64	46.62	74.00	27.38	Peak
8371.000	35.66	38.10	10.43	34.82	49.37	74.00	24.63	Peak
9865.000	35.32	38.26	11.34	34.61	50.31	74.00	23.69	Peak

**Mode: BLE1M CH2402MHz****Polarization at Vertical**

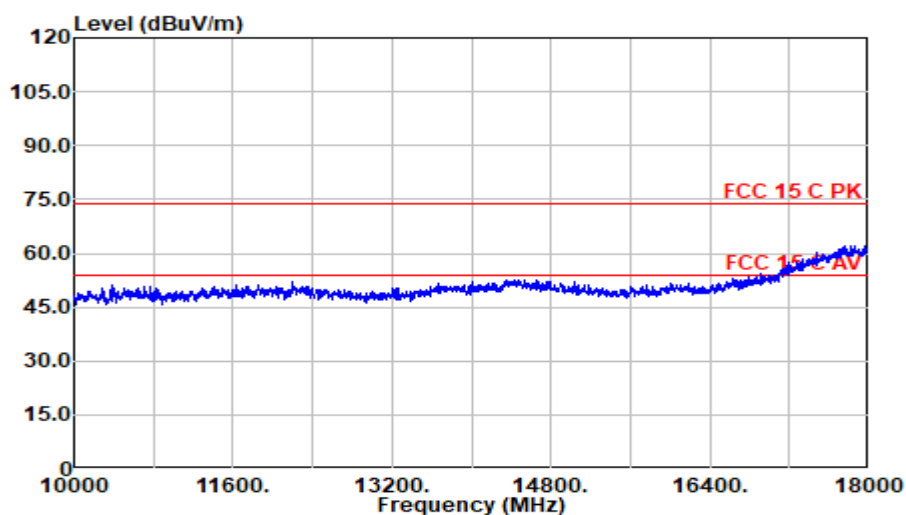
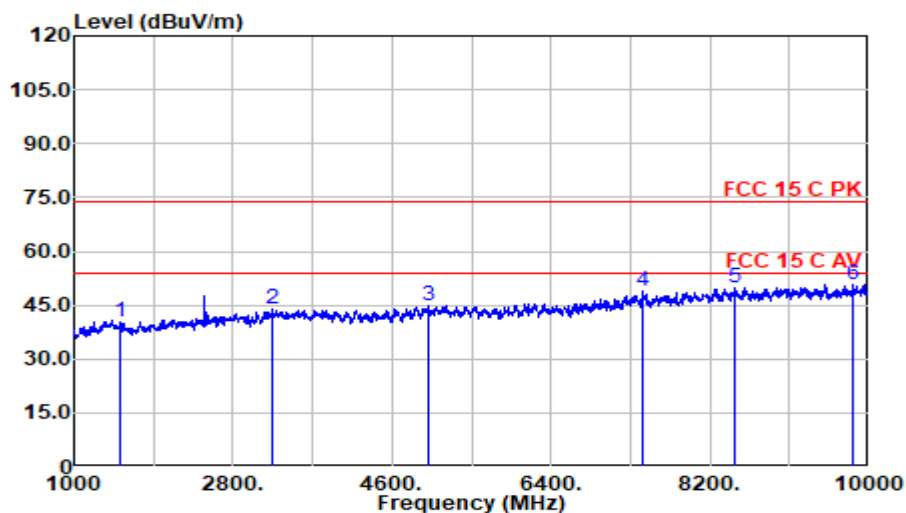
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1436.500	47.32	26.00	4.29	36.50	41.11	74.00	32.89	Peak
4078.000	39.49	32.49	6.84	34.97	43.85	74.00	30.15	Peak
5536.000	36.83	34.13	8.15	34.60	44.51	74.00	29.49	Peak
7205.500	37.92	36.16	9.48	34.67	48.89	74.00	25.11	Peak
8618.500	35.77	38.10	10.51	34.77	49.61	74.00	24.39	Peak
9748.000	35.73	38.10	11.25	34.62	50.46	74.00	23.54	Peak

**Mode: BLE1M CH2442MHz****Polarization at Horizontal**

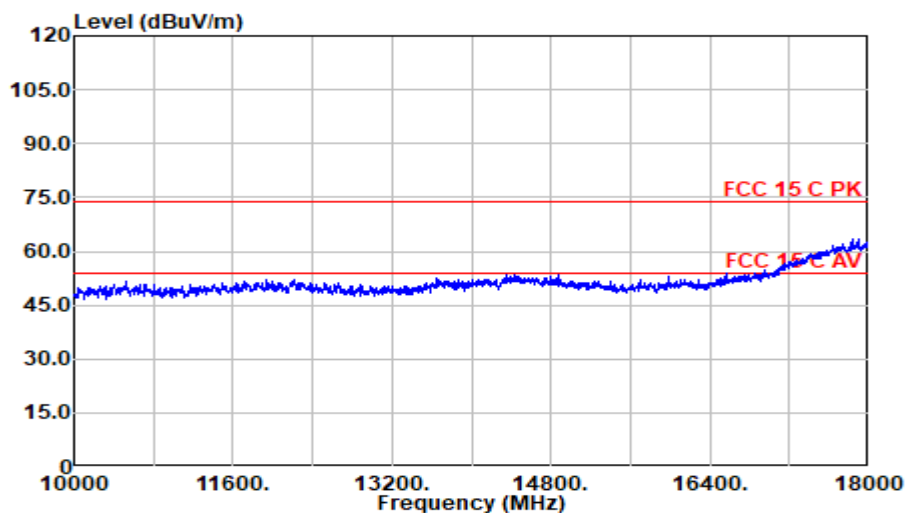
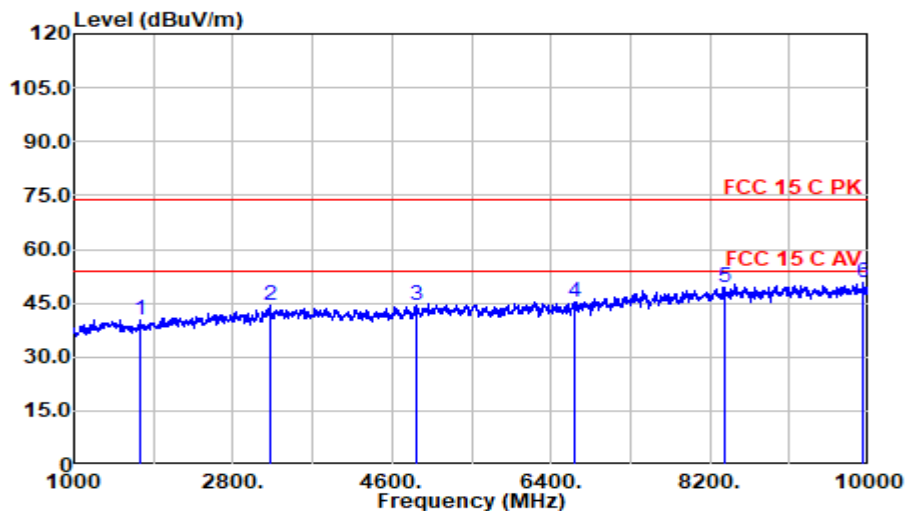
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1382.500	46.79	26.03	4.21	36.50	40.53	74.00	33.47	Peak
3286.000	41.53	31.32	6.15	35.27	43.72	74.00	30.28	Peak
4879.000	40.25	33.37	7.69	34.64	46.67	74.00	27.33	Peak
6211.000	36.56	34.62	8.61	34.60	45.19	74.00	28.81	Peak
7322.500	37.61	36.74	9.61	34.70	49.25	74.00	24.75	Peak
9730.000	35.57	38.10	11.24	34.63	50.28	74.00	23.72	Peak

**Mode: BLE1M CH2442MHz****Polarization at Vertical**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1441.000	46.89	26.00	4.30	36.50	40.68	74.00	33.32	Peak
3880.000	39.32	32.62	6.66	35.04	43.56	74.00	30.44	Peak
5315.500	37.50	33.96	8.01	34.60	44.88	74.00	29.12	Peak
7322.500	37.49	36.74	9.61	34.70	49.13	74.00	24.87	Peak
8366.500	36.45	38.10	10.43	34.82	50.16	74.00	23.84	Peak
9815.500	35.34	38.13	11.31	34.62	50.16	74.00	23.84	Peak

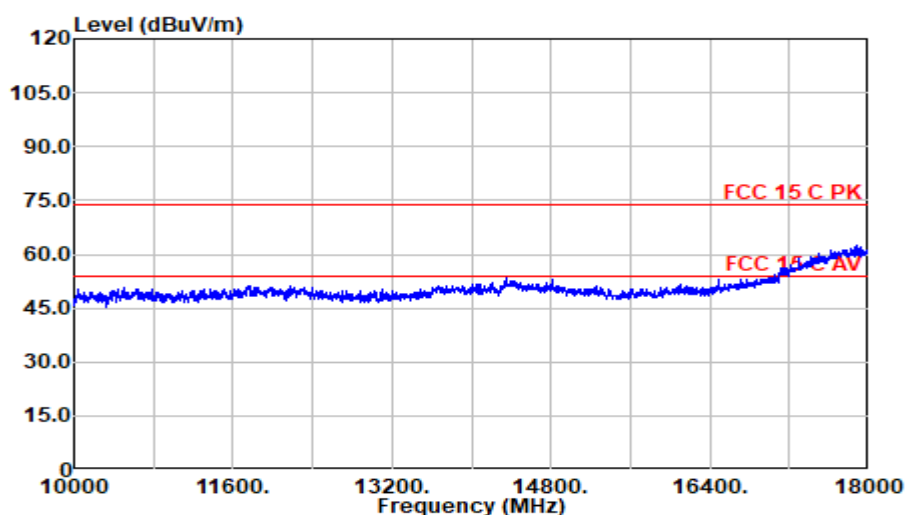
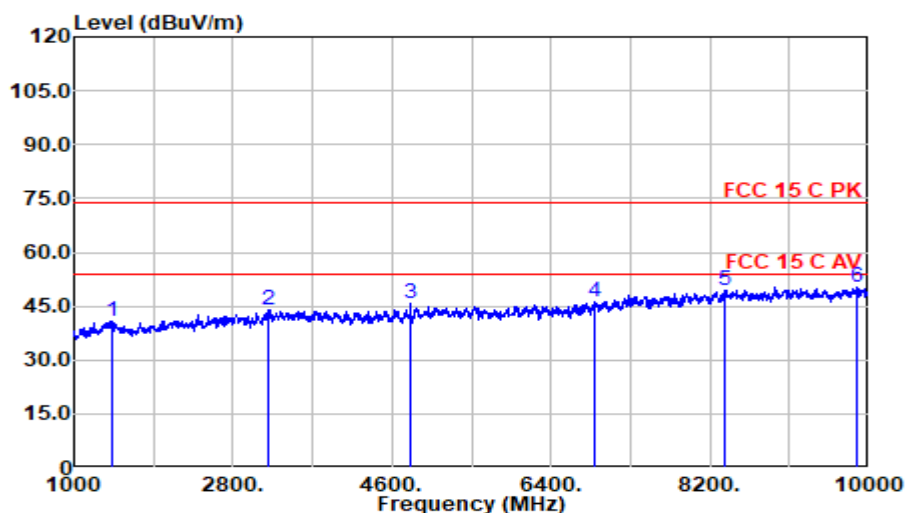
**Mode: BLE1M CH2480MHz****Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1517.500	46.31	26.10	4.41	36.50	40.31	74.00	33.69	Peak
3236.500	41.83	31.10	6.10	35.29	43.74	74.00	30.26	Peak
5014.000	38.10	33.43	7.82	34.60	44.75	74.00	29.25	Peak
7439.500	37.10	36.90	9.73	34.74	48.99	74.00	25.01	Peak
8479.000	35.81	38.20	10.47	34.80	49.68	74.00	24.32	Peak
9820.000	36.01	38.14	11.31	34.62	50.84	74.00	23.16	Peak

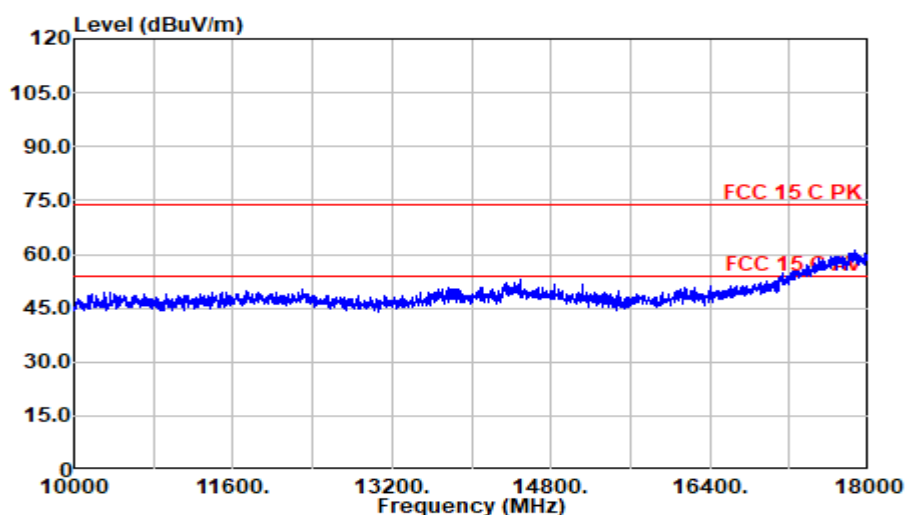
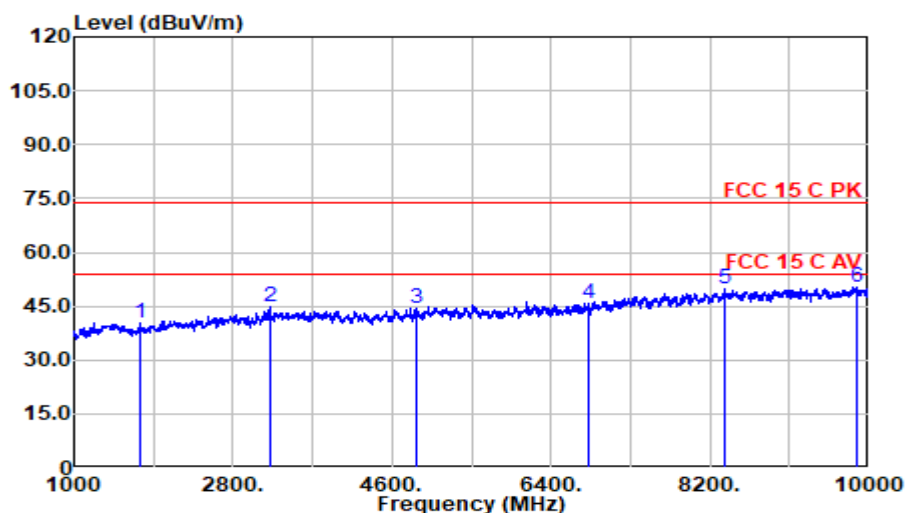
**Mode: BLE1M CH2480MHz****Polarization at Vertical**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1747.000	45.17	26.85	4.72	36.50	40.23	74.00	33.77	Peak
3214.000	42.30	31.10	6.08	35.30	44.18	74.00	29.82	Peak
4870.000	38.08	33.32	7.68	34.65	44.44	74.00	29.56	Peak
6670.000	36.08	34.94	8.99	34.60	45.41	74.00	28.59	Peak
8371.000	35.66	38.10	10.43	34.82	49.37	74.00	24.63	Peak
9932.500	35.33	38.40	11.40	34.61	50.52	74.00	23.48	Peak



**Mode: BLE2M CH2402MHz****Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1432.000	46.89	26.00	4.28	36.50	40.67	74.00	33.33	Peak
3205.000	41.87	31.10	6.07	35.31	43.73	74.00	30.27	Peak
4802.500	39.94	32.92	7.62	34.67	45.81	74.00	28.19	Peak
6899.500	36.15	35.50	9.17	34.60	46.22	74.00	27.78	Peak
8371.000	35.66	38.10	10.43	34.82	49.37	74.00	24.63	Peak
9865.000	35.32	38.26	11.34	34.61	50.31	74.00	23.69	Peak

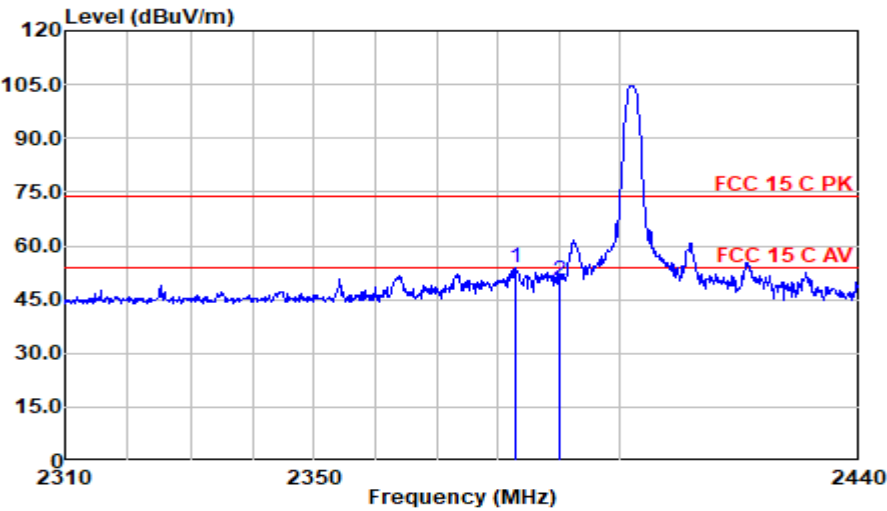
**Mode: BLE2M CH2402MHz****Polarization at Vertical**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
1747.000	45.17	26.85	4.72	36.50	40.23	74.00	33.77	Peak
3214.000	42.74	31.10	6.08	35.30	44.61	74.00	29.39	Peak
4870.000	38.08	33.32	7.68	34.65	44.44	74.00	29.56	Peak
6832.000	35.85	35.36	9.12	34.60	45.74	74.00	28.26	Peak
8366.500	35.94	38.10	10.43	34.82	49.65	74.00	24.35	Peak
9860.500	35.41	38.24	11.34	34.61	50.38	74.00	23.62	Peak

Band-Edge and Restricted bands:

Test Date:	2024.02.24	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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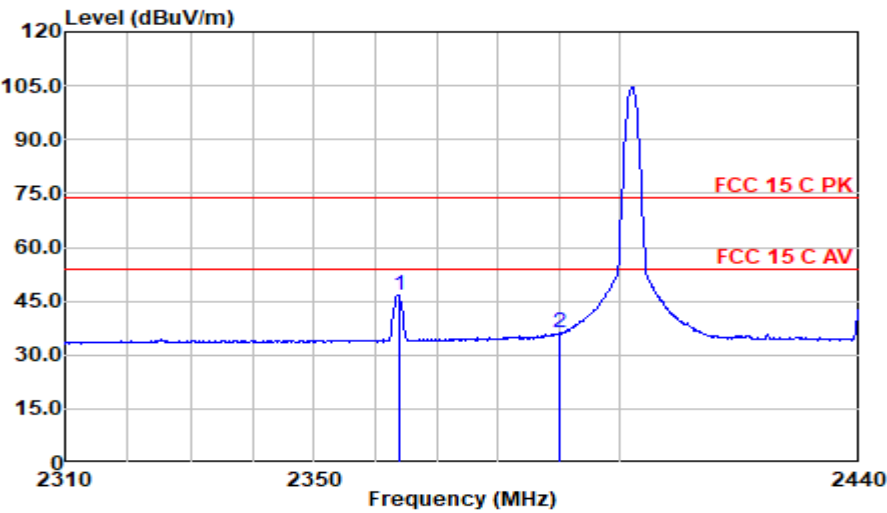
Mode: BLE1M CH2402MHz



Polarization at Horizontal

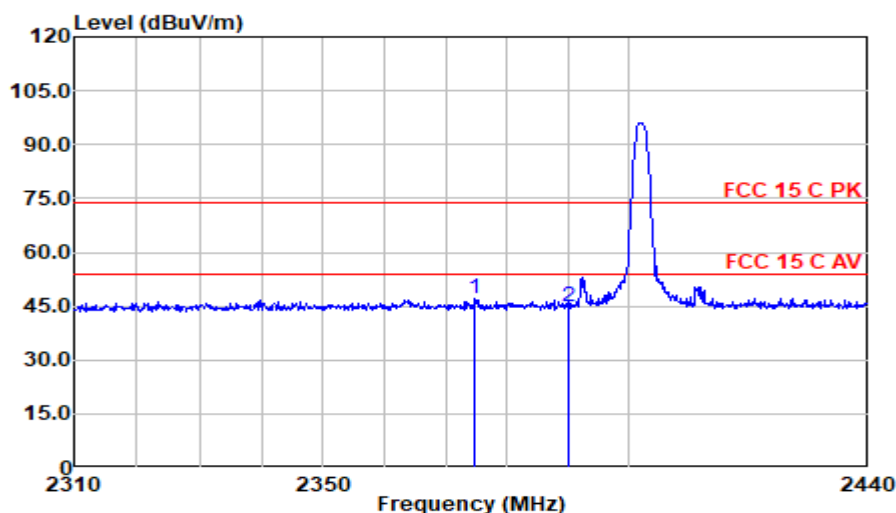
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2382.800	55.91	28.53	5.38	36.02	53.80	74.00	20.20	Peak
2390.000	52.33	28.56	5.39	36.02	50.26	74.00	23.74	Peak

Mode: BLE1M CH2402MHz



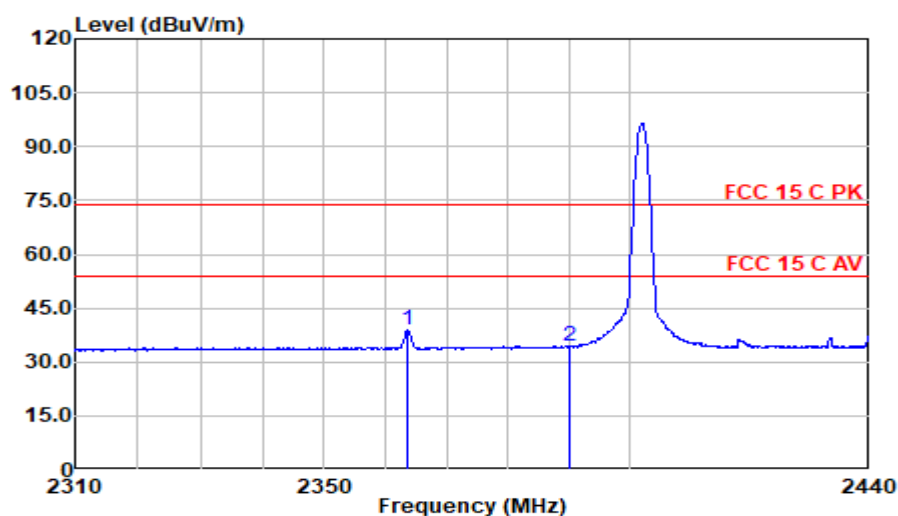
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2363.690	49.09	28.46	5.36	36.05	46.86	54.00	7.14	Average
2390.000	38.21	28.56	5.39	36.02	36.14	54.00	17.86	Average

**Mode: BLE1M CH2402MHz**

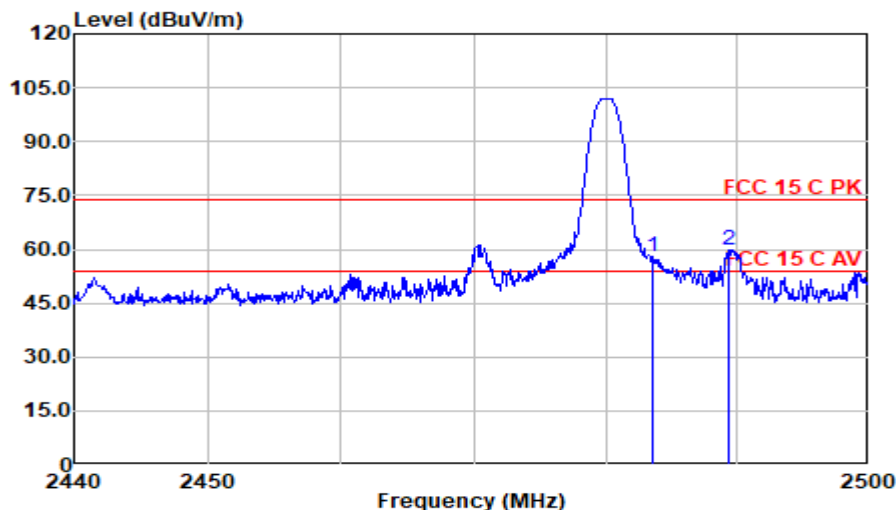
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2374.740	49.03	28.50	5.37	36.03	46.87	74.00	27.13	Peak
2390.000	46.67	28.56	5.39	36.02	44.60	74.00	29.40	Peak

**Mode: BLE1M CH2402MHz**

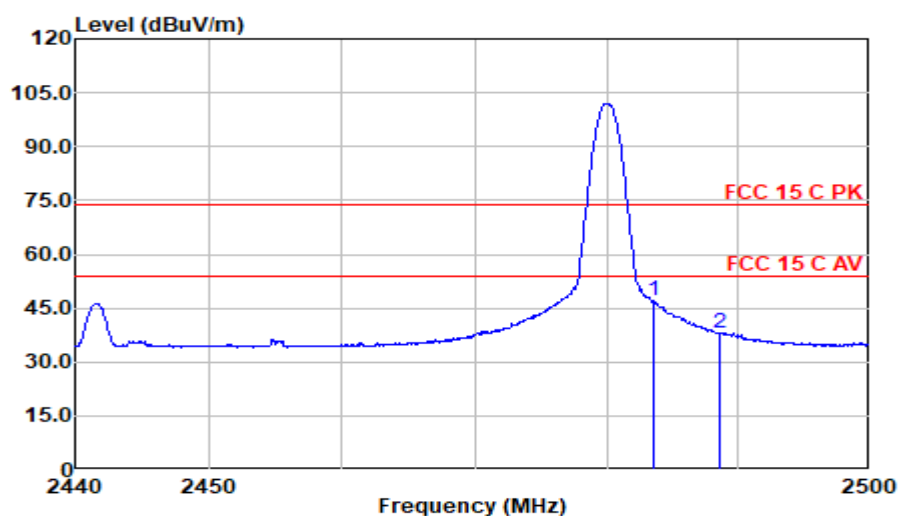
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2363.430	41.14	28.45	5.36	36.05	38.91	54.00	15.09	Average
2390.000	36.34	28.56	5.39	36.02	34.27	54.00	19.73	Average

**Mode: BLE1M CH2480MHz**

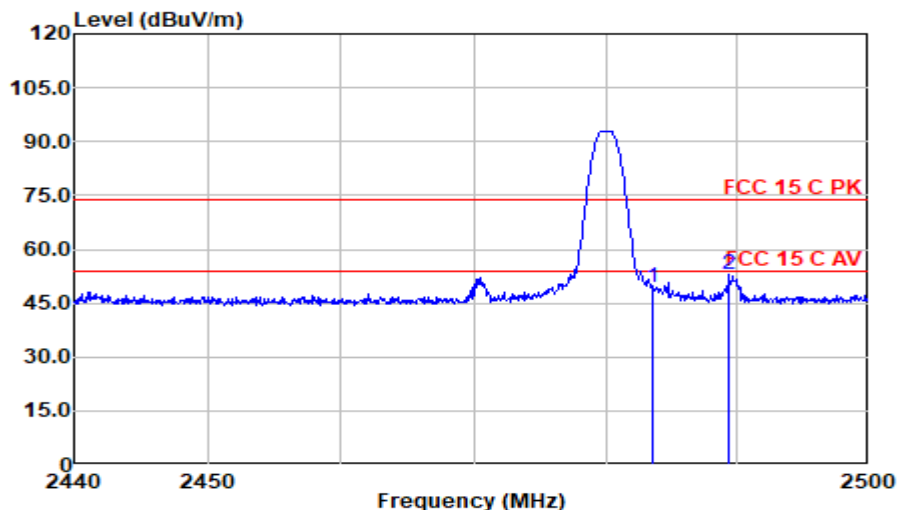
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	59.60	28.63	5.47	35.91	57.79	74.00	16.21	Peak
2489.380	61.66	28.66	5.47	35.91	59.89	74.00	14.11	Peak

**Mode: BLE1M CH2480MHz**

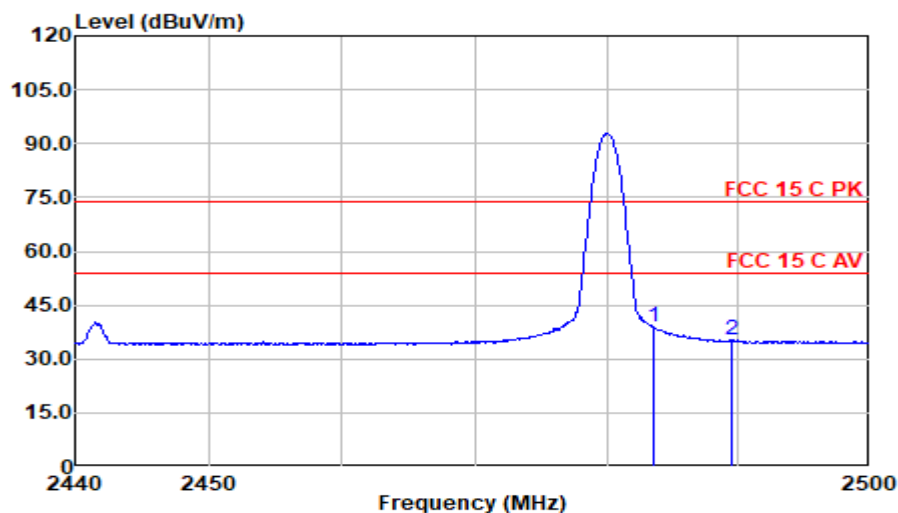
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	48.70	28.63	5.47	35.91	46.89	54.00	7.11	Average
2488.600	39.99	28.65	5.47	35.91	38.21	54.00	15.79	Average

**Mode: BLE1M CH2480MHz**

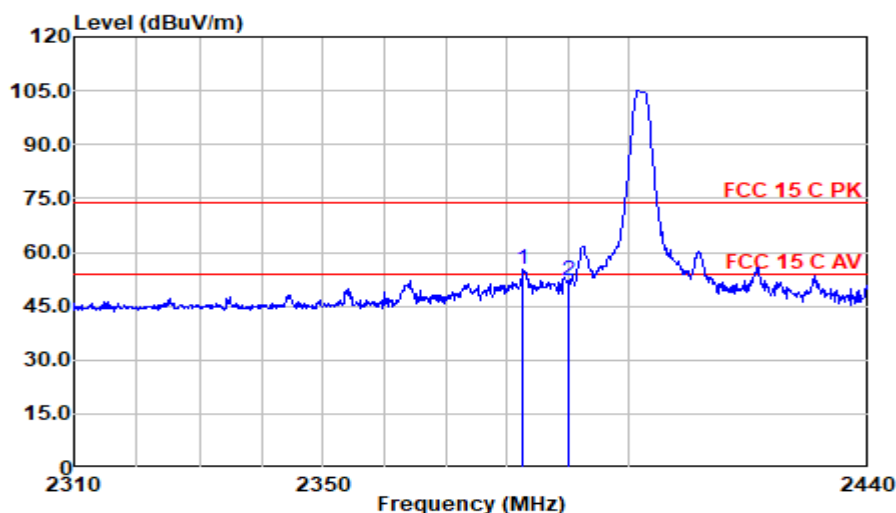
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	51.19	28.63	5.47	35.91	49.38	74.00	24.62	Peak
2489.380	54.96	28.66	5.47	35.91	53.19	74.00	20.81	Peak

**Mode: BLE1M CH2480MHz**

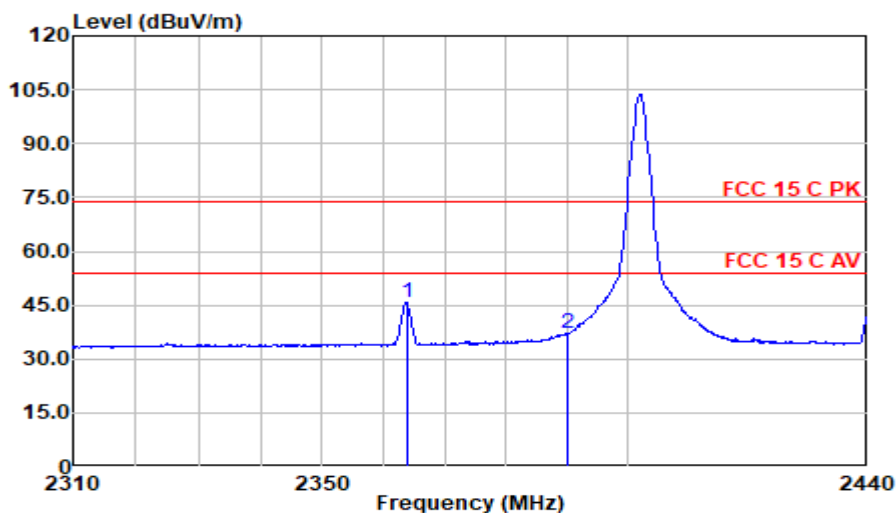
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	40.70	28.63	5.47	35.91	38.89	54.00	15.11	Average
2489.500	37.15	28.66	5.47	35.91	35.38	54.00	18.62	Average

**Mode: BLE2M CH2402MHz**

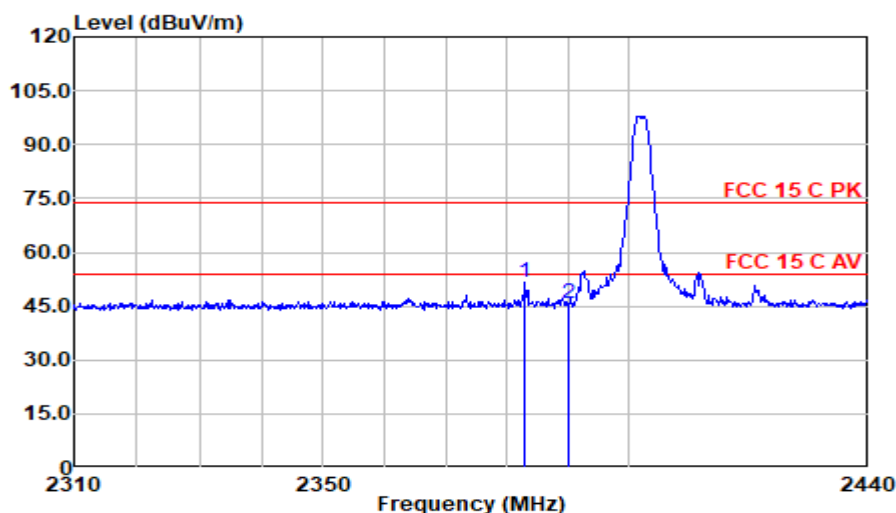
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2382.540	57.15	28.53	5.38	36.03	55.03	74.00	18.97	Peak
2390.000	54.31	28.56	5.39	36.02	52.24	74.00	21.76	Peak

**Mode: BLE2M CH2402MHz**

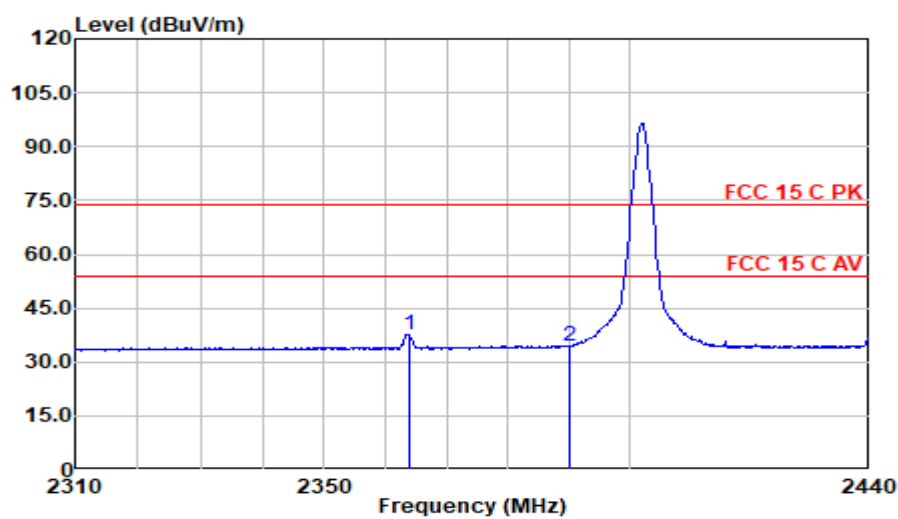
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2363.690	47.86	28.46	5.36	36.05	45.64	54.00	8.36	Average
2390.000	39.11	28.56	5.39	36.02	37.04	54.00	16.96	Average

**Mode: BLE2M CH2402MHz**

Polarization at Vertical

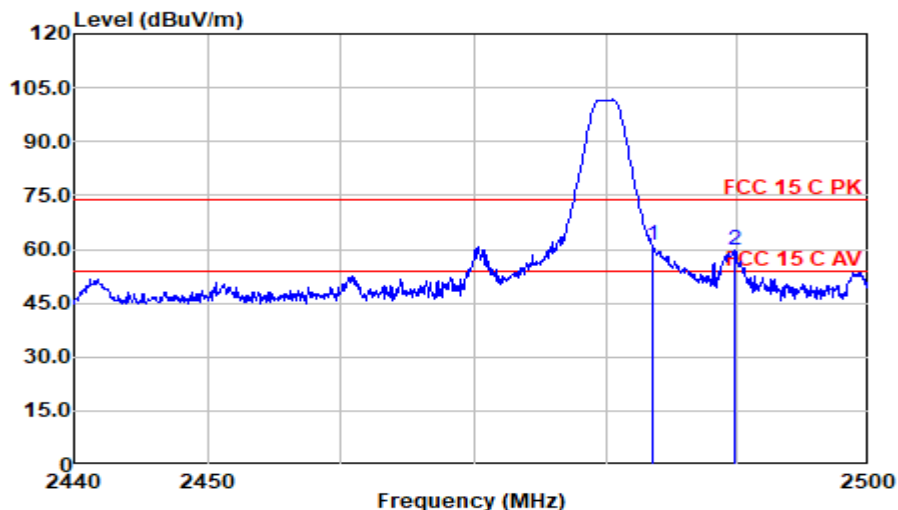
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2382.800	53.91	28.53	5.38	36.02	51.80	74.00	22.20	Peak
2390.000	47.72	28.56	5.39	36.02	45.65	74.00	28.35	Peak

**Mode: BLE2M CH2402MHz**

Polarization at Vertical

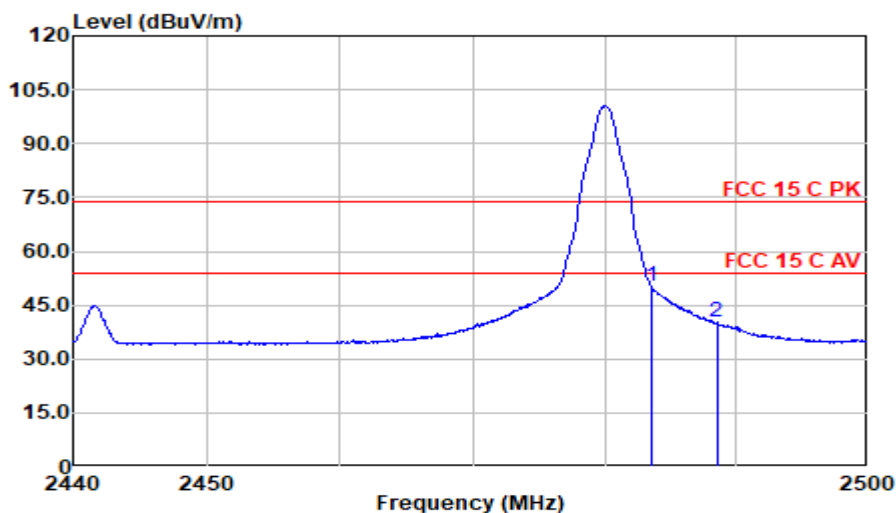
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2363.690	39.93	28.46	5.36	36.05	37.70	54.00	16.30	Average
2390.000	36.39	28.56	5.39	36.02	34.32	54.00	19.68	Average



**Mode: BLE2M CH2480MHz**

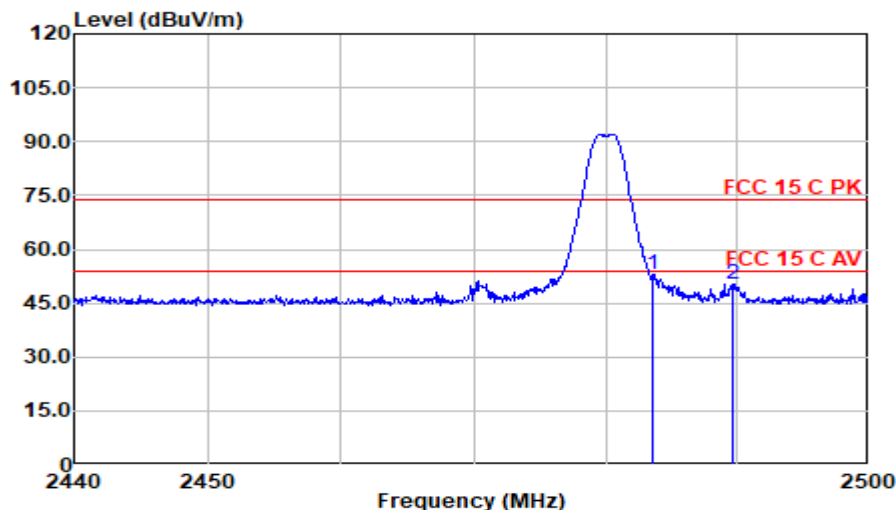
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	63.09	28.63	5.47	35.91	61.28	74.00	12.72	Peak
2489.740	61.58	28.66	5.47	35.91	59.81	74.00	14.19	Peak

**Mode: BLE2M CH2480MHz**

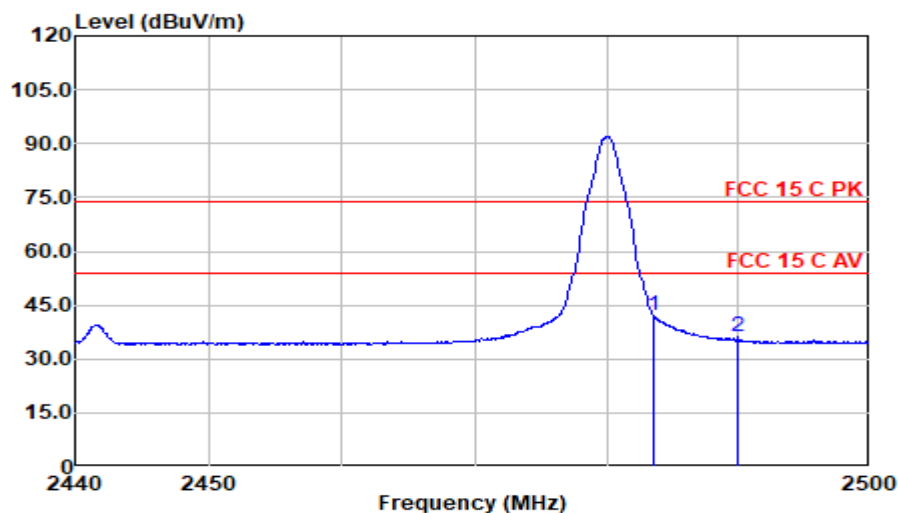
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	51.88	28.63	5.47	35.91	50.07	54.00	3.93	Average
2488.480	41.87	28.65	5.47	35.91	40.09	54.00	13.91	Average

**Mode: BLE2M CH2480MHz**

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	54.97	28.63	5.47	35.91	53.16	74.00	20.84	Peak
2489.680	52.17	28.66	5.47	35.91	50.40	74.00	23.60	Peak

**Mode: BLE2M CH2480MHz**

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	43.91	28.63	5.47	35.91	42.10	54.00	11.90	Average
2489.860	37.79	28.66	5.47	35.91	36.02	54.00	17.98	Average

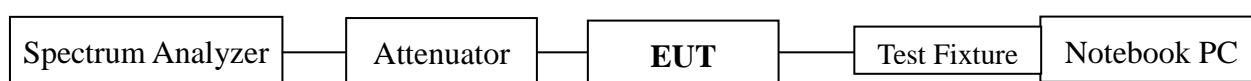
## 4 6 dB BANDWIDTH MEASUREMENT

### 4.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year

### 4.2 Block Diagram of Test Setup



### 4.3 Specification Limits (§15.247(a)(2))

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

### 4.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

### 4.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with settings: RBW = 100kHz, VBW  $\geq 3 \times$  RBW.

The 6 dB bandwidth is defined as the total spectrum the power of which is lower than peak power minus 6 dB .

The test procedure is defined in ANSI C63.10-2013 (the 11.8.2 Measurement Procedure “Option 2” was used).

## 4.6 Test Results

### **PASSED.**

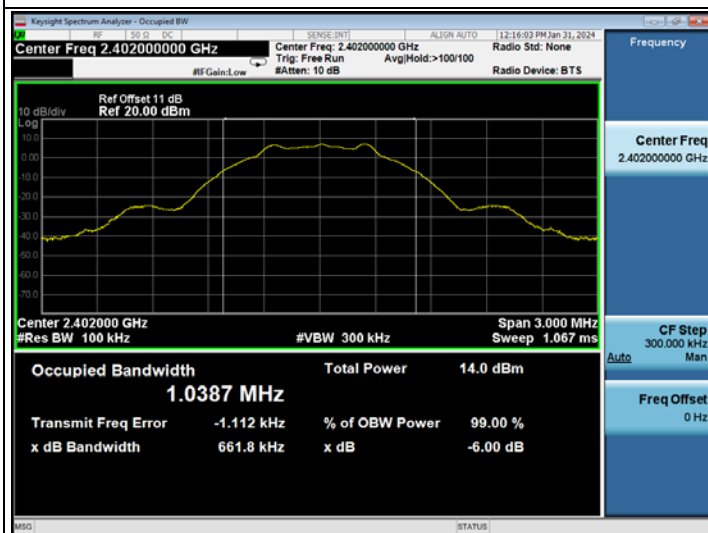
All the test results are attached in next pages.

(Test Date: 2024.01.31    Temperature: 23°C    Humidity: 51 %)

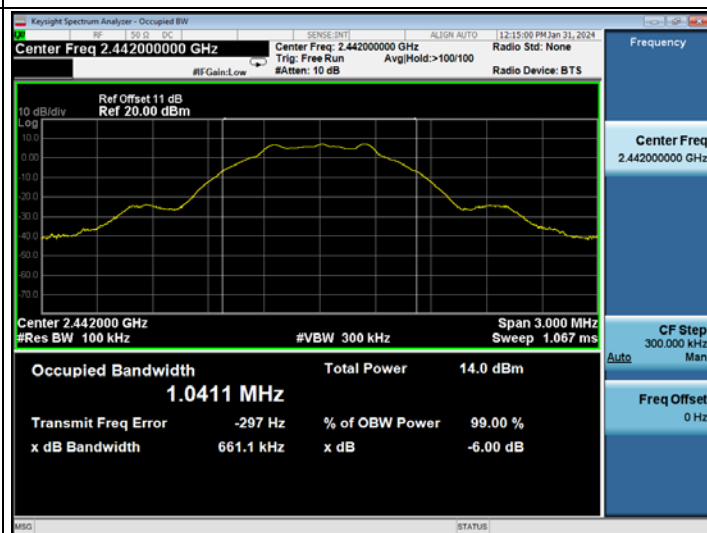
Mode	Channel	Frequency (MHz)	6dB Bandwidth (kHz)	Limit
BLE 1M	00	2402	<b>661.8</b>	500 kHz
	20	2442	<b>661.1</b>	500 kHz
	39	2480	<b>659.9</b>	500 kHz
BLE 2M	00	2402	<b>1114</b>	500 kHz
	20	2442	<b>1115</b>	500 kHz
	39	2480	<b>1114</b>	500 kHz

## BLE 1M

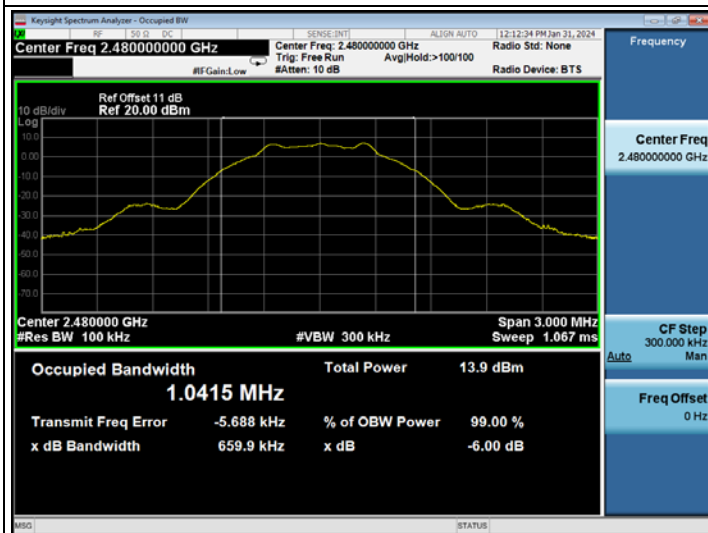
## CH2402



## CH2442



## CH2480



## BLE 2M

## CH2402



## CH2442



## CH2480



## 5 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

### 5.1 Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year

### 5.2 Block Diagram of Test Setup

The Same as Section. 5.2.

### 5.3 Specification Limits ((§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5 MHz is: 1 Watt. (30 dBm)

### 5.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

### 5.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a)  $RBW \geq DTS \text{ Bandwidth}$ .
- b)  $VBW \geq [3 \times RBW]$ .
- c)  $Span \geq [3 \times RBW]$ .
- d) Sweep time = auto.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

The test procedure is defined in ANSI C63.10-2013 ( 11.9.1.1 Measurement Procedure “  $RBW \square DTS \text{ bandwidth}$ ” was used).

## 5.6 Test Results

### **PASSED.**

All the test results are listed below.

(Test Date: 2024.01.31    Temperature: 23°C    Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit
BLE 1M	00	2402	<b>7.247</b>	30 dBm
	20	2442	<b>7.303</b>	30 dBm
	39	2480	<b>7.115</b>	30 dBm
BLE 2M	00	2402	<b>7.316</b>	30 dBm
	20	2442	<b>7.33</b>	30 dBm
	39	2480	<b>7.153</b>	30 dBm



BLE 1M

CH2402



CH2442

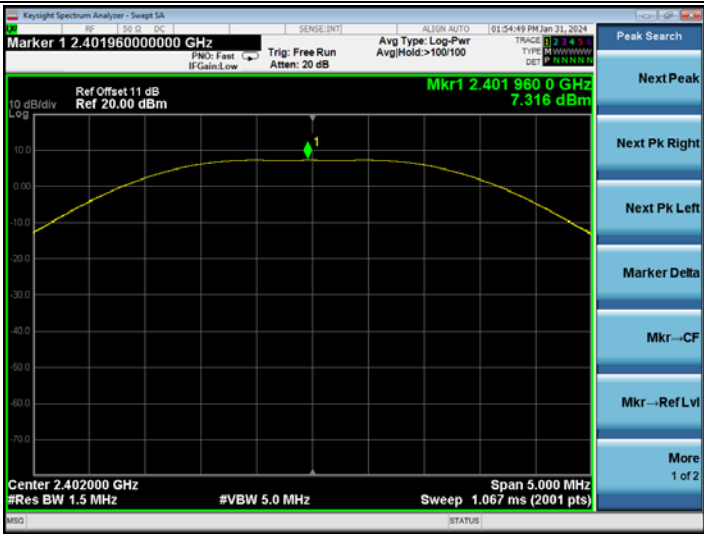


CH2480



BLE 2M

CH2402



CH2442



CH2480



## 6 EMISSION LIMITATIONS MEASUREMENT

### 6.1 Test Equipment

The following test equipment was used during the emission limitations test:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year

### 6.2 Block Diagram of Test Setup

The Same as Section. 5.2.

### 6.3 Specification Limits (§15.247(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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). (※This test result attaching to Section. 3.7)

### 6.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

### 6.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency.
- Set the span to  $\geq 1.5$  times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW  $\geq [3 \times \text{RBW}]$ .
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Scan up through 10<sup>th</sup> harmonic.

The test procedure is defined in ANSI C63.10-2013 (11.11.2 Reference level measurement and 11.11.3 Emission level measurement was used).

## 6.6 Test Results

### **PASSED.**

The test data was attached in the next pages.

(Test Date: 2024.01.31    Temperature: 23°C    Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Data Page
BLE 1M	00	2402	P46
	20	2442	P47
	39	2480	P48
BLE 2M	00	2402	P49
	20	2442	P50
	39	2480	P51

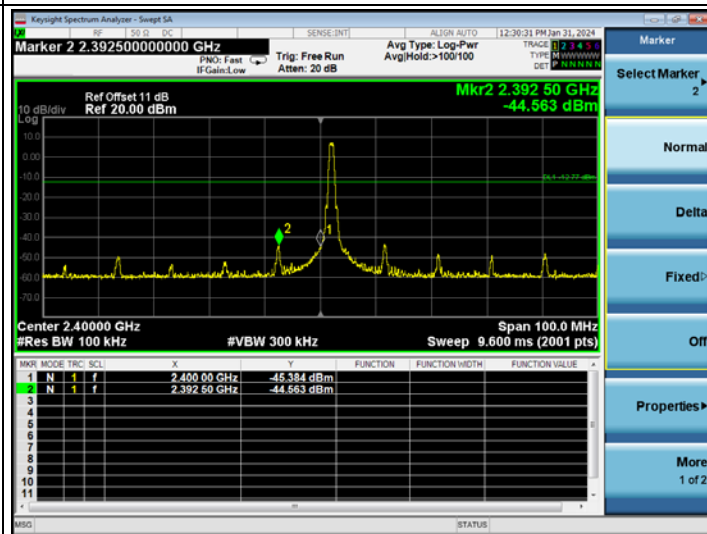
## BLE 1M

## CH2402

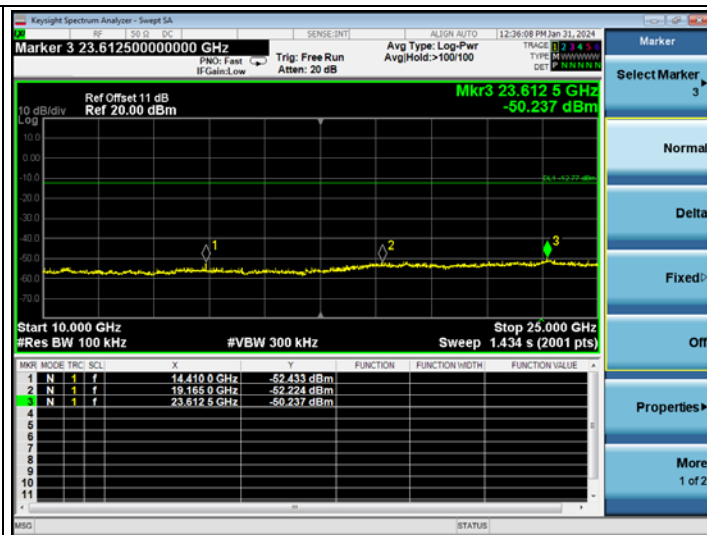
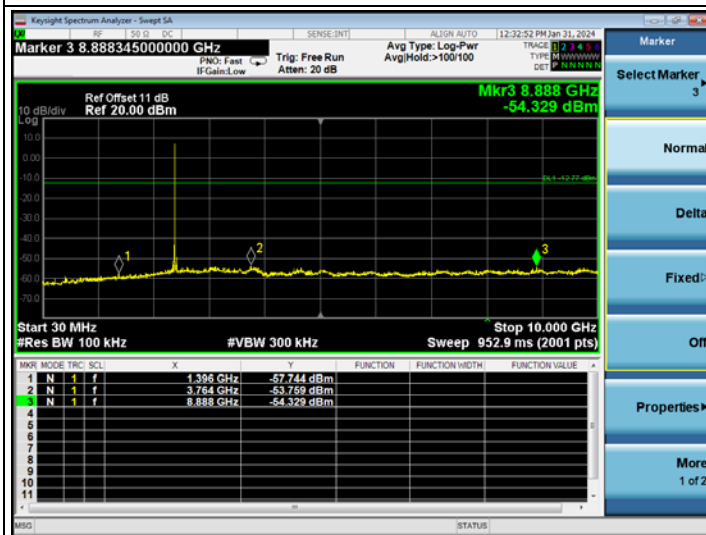
## Reference Level



## Lower Edge



## Emission Level



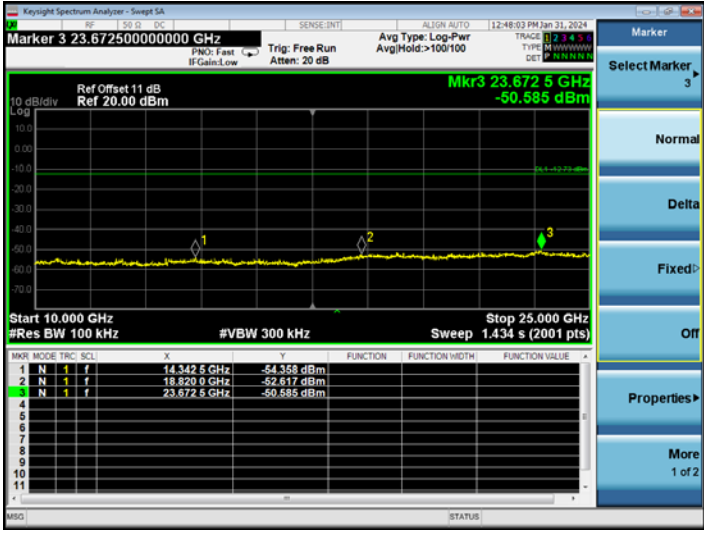
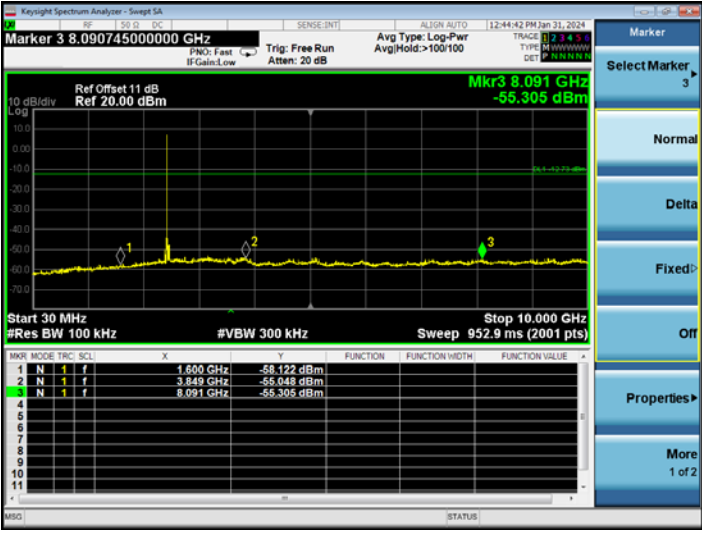
BLE 1M

CH2442

Reference Level



Emission Level



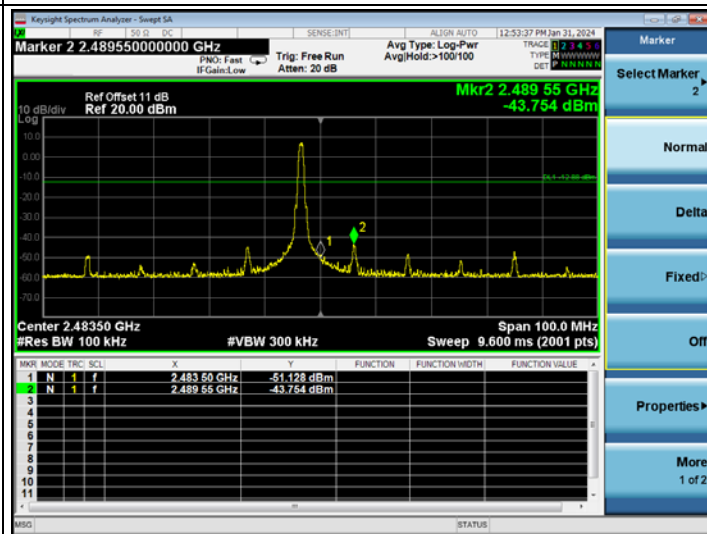
## BLE 1M

## CH2480

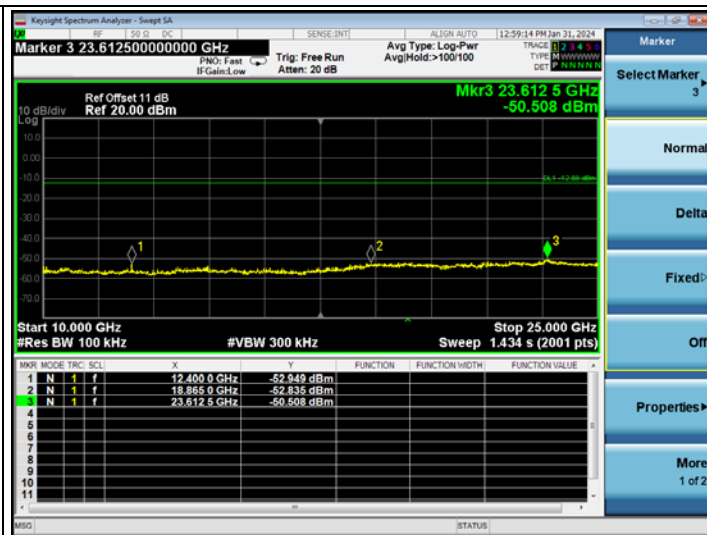
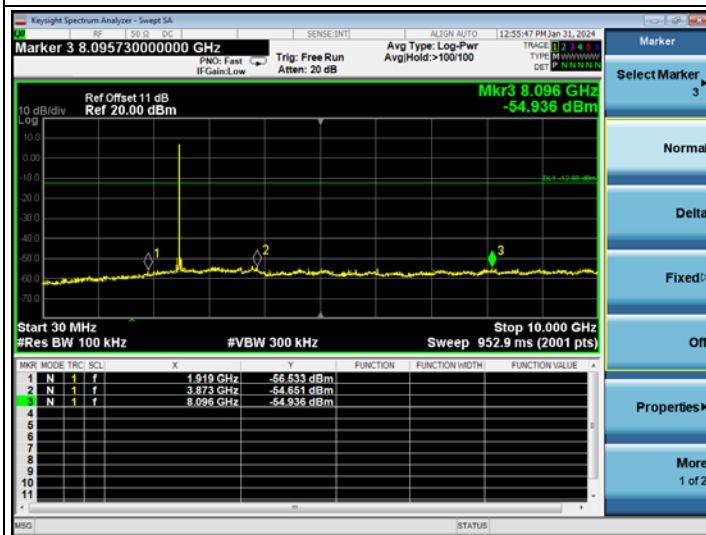
## Reference Level



## Higher Edge



## Emission Level

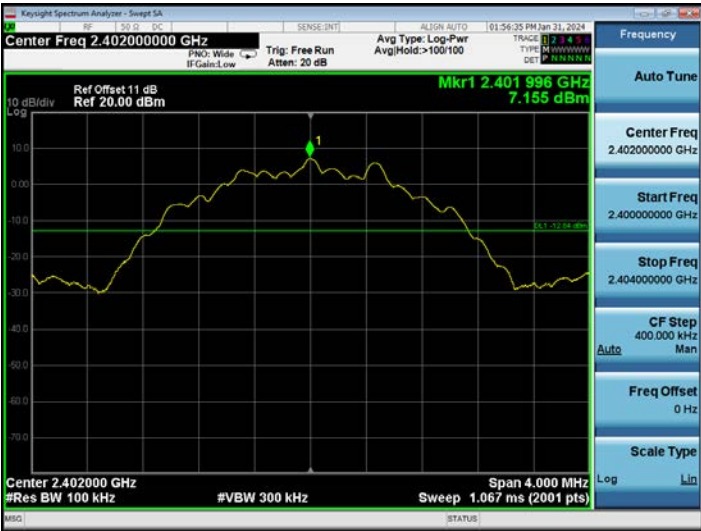




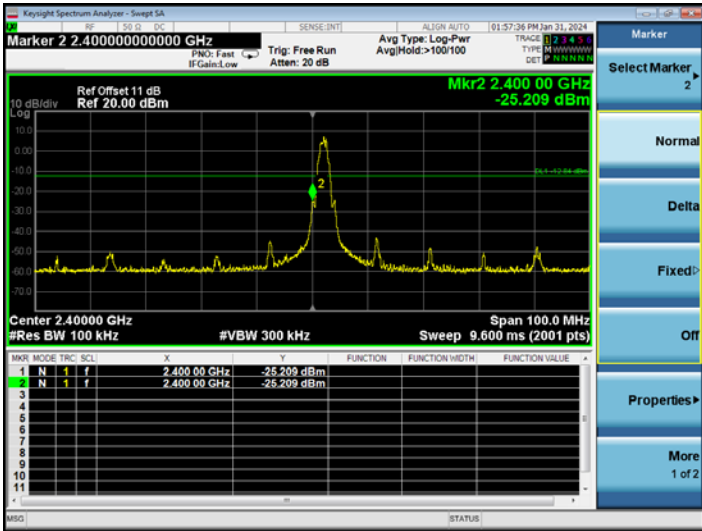
BLE 2M

CH2402

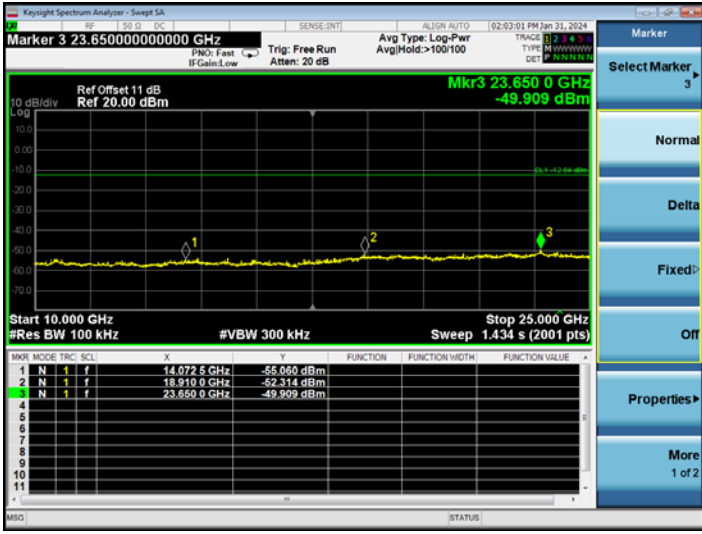
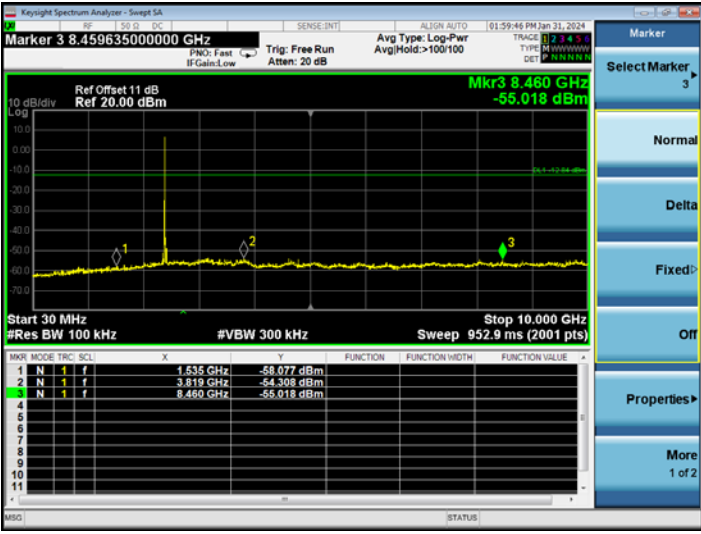
Reference Level



Lower Edge



Emission Level



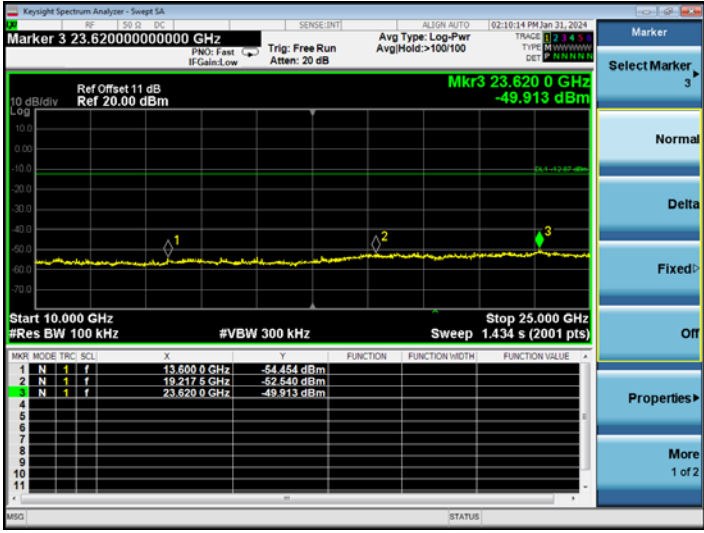
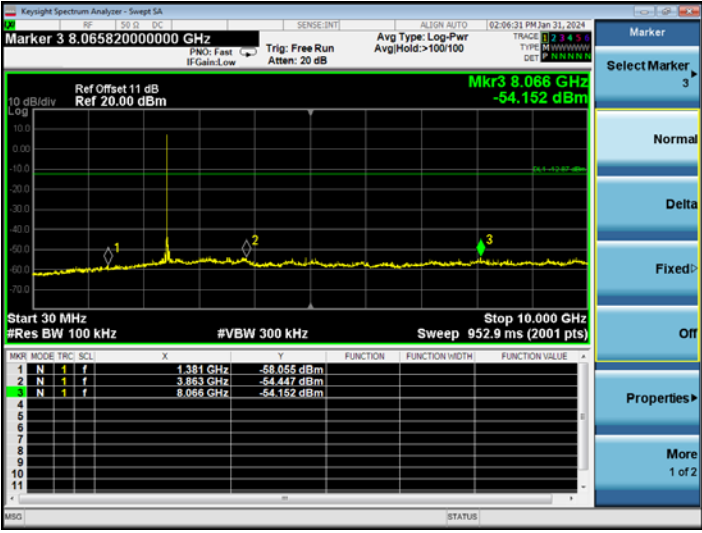
BLE 2M

CH2442

Reference Level



Emission Level



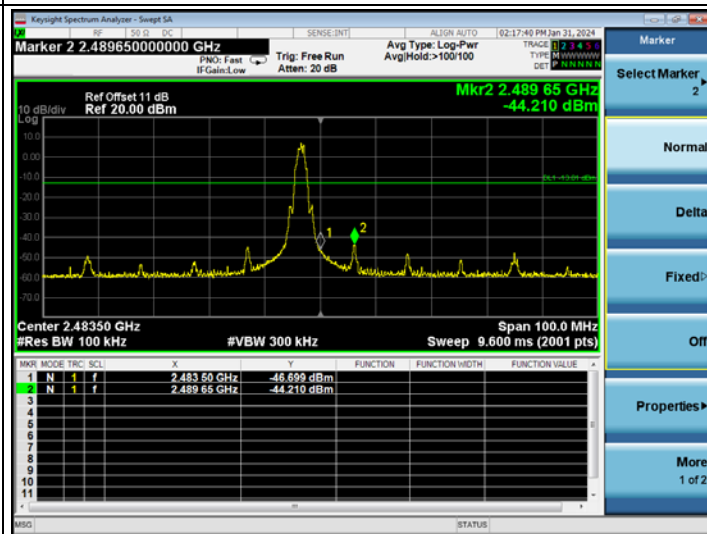
## BLE 2M

## CH2480

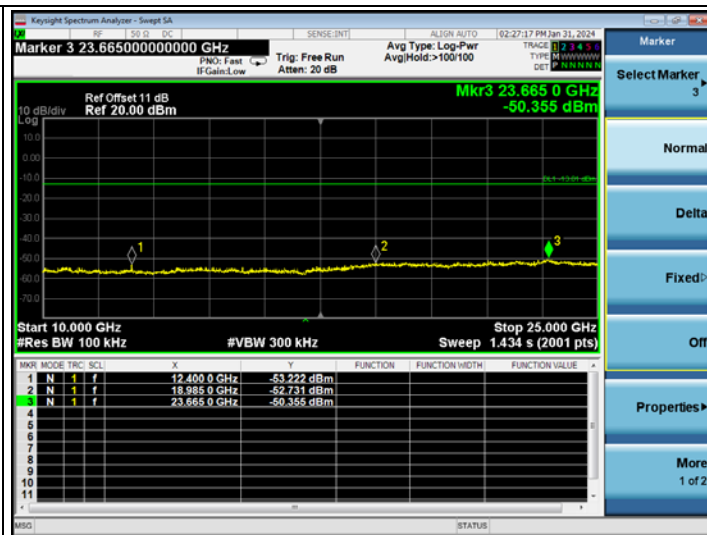
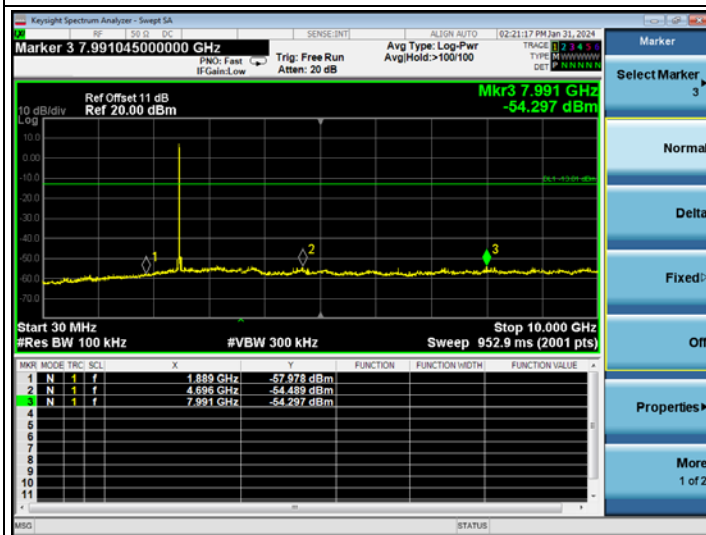
## Reference Level



## Higher Edge



## Emission Level



## 7 POWER SPECTRAL DENSITY MEASUREMENT

### 7.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year

### 7.2 Block Diagram of Test Setup

The Same as section 5.2.

### 7.3 Specification Limits (§15.247(e))

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

### 7.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

### 7.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set the VBW  $\geq [3 \times \text{RBW}]$ .
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

The test procedure is defined in ANSI C63.10-2013 ( 11.10.2 Measurement Procedure “Method PKPSD (peak PSD)” was used).

## 7.6 Test Results

### **PASSED.**

All the test results are attached in next pages.

(Test Date: 2024.01.31    Temperature: 23°C    Humidity: 51 %)

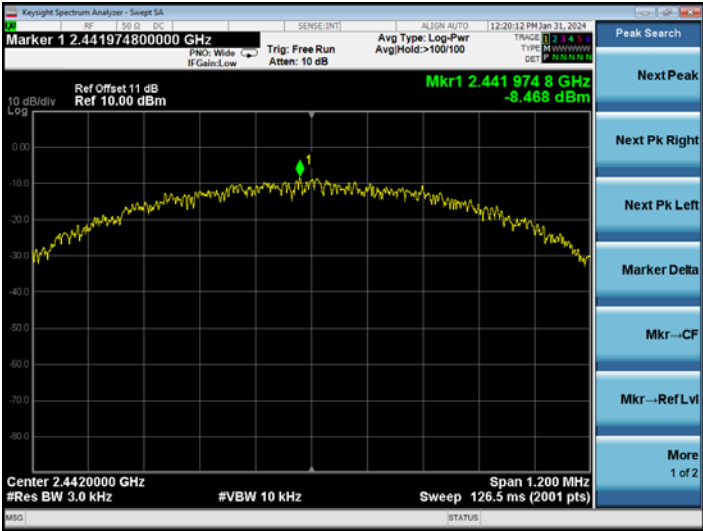
Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limit
BLE 1M	00	2402	<b>-8.344</b>	8 dBm
	20	2442	<b>-8.468</b>	8 dBm
	39	2480	<b>-8.566</b>	8 dBm
BLE 2M	00	2402	<b>-9.618</b>	8 dBm
	20	2442	<b>-9.626</b>	8 dBm
	39	2480	<b>-9.863</b>	8 dBm

BLE 1M

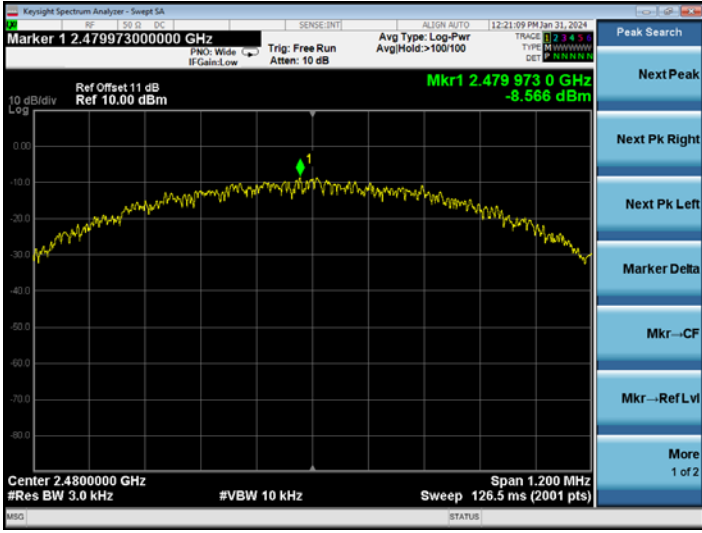
CH2402



CH2442

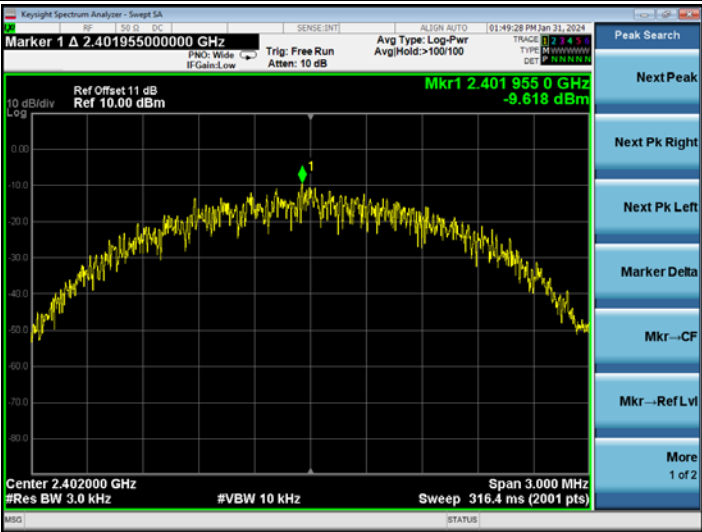


CH2480

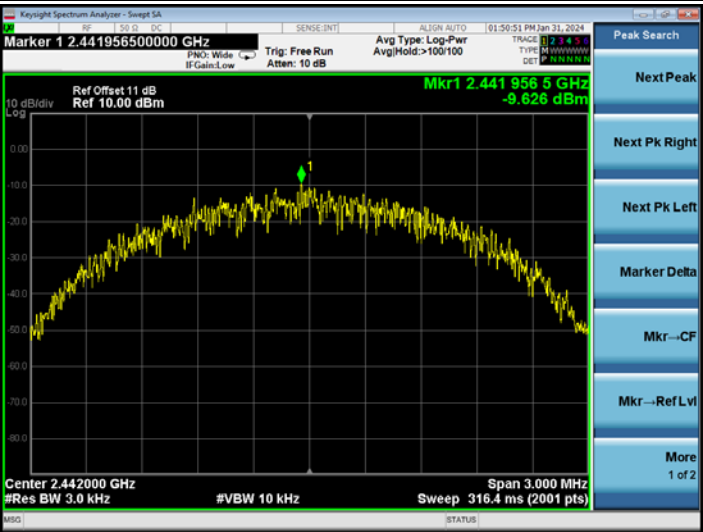


BLE 2M

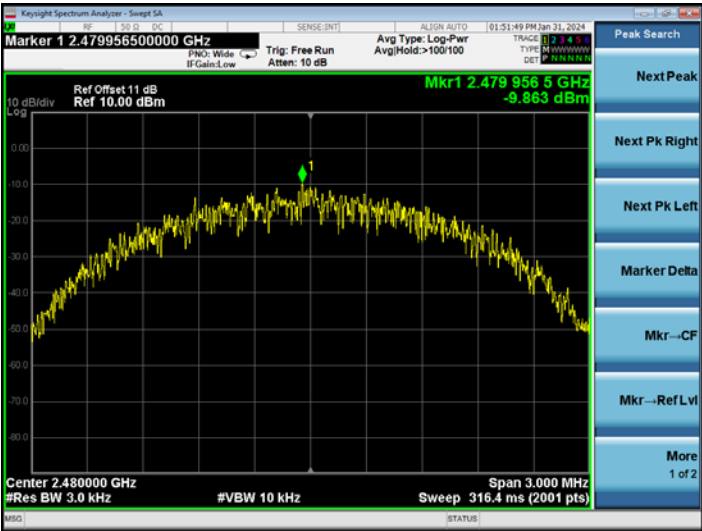
CH2402



CH2442



CH2480



## 8 ANTENNA REQUIREMENT

### 8.1 Specification Limits (§15.203)

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.

### 8.2 Result

According to KDB 353028 D1, the following describes the three ways that can be used to demonstrate compliance to Section 15.203:

- a) Antenna permanently attached.
- b) Unique (non-standard) antenna connector.
- c) Professional installation.

For this product, the antenna is:

- ☒ Antenna permanently attached
- ☐ Unique (non-standard) antenna connector
- ☐ Professional installation
- ☐ not meet any of ways list above

that

- ☒ compliant
- ☐ not compliant

with the requirement of Section 15.203.



## **9 DEVIATION TO TEST SPECIFICATIONS**

None.

## 10 MEASUREMENT UNCERTAINTY LIST

The measurement uncertainty was estimated for test on the EUT according to CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage of K=2.

The uncertainties value is not used in determining the PASS/FAIL results.

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Conducted Emission No.1 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Conducted Emission No.3 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Radiated Emission	30MHz~200MHz, Horizontal	±3.8 dB
	30MHz~200MHz, Vertical	±4.1 dB
	200MHz~1000MHz, Horizontal	±3.6 dB
	200MHz~1000MHz, Vertical	±5.1 dB
	1GHz~6GHz	±5.3 dB
	6GHz~18GHz	±5.3 dB
	18GHz~40GHz	±3.5 dB
Output Power Test	50MHz~18GHz	0.77 dB
Power Density Test	9kHz~6GHz	1.08 dB
RF Frequency Test	9kHz~40GHz	$6 \times 10^{-4}$
Bandwidth Test	9kHz~6GHz	$1.5 \times 10^{-3}$
RF Radiated Power Test	30MHz~1000MHz	3.06 dB
Conducted Output Power Test	50MHz~18GHz	0.83 dB
AC Voltage(<10kHz) Test	120V~230V	0.04 %
DC Power Test	0V~30V	0.4 %
Temperature	-40°C~+100°C	0.52 °C
Humidity	30%~95%	2.6 %