

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: FocalTech Smart Sensors Co., Ltd.
8F-2 No.32, Gaotie 2nd Rd Zhubei City, Hsinchu
30274, Taiwan

Manufacturer: FocalTech Smart Sensors Co., Ltd.
8F-2 No.32, Gaotie 2nd Rd Zhubei City, Hsinchu
30274, Taiwan

Product Name: Mobile Blood Pressure Monitoring Device, Multi-Function
Physiological Monitoring Device

Brand Name: VITOM, VITOM Plus

Model No.: VITOM3, VITOM3 Plus

Model Difference: Please refer to section 1.4

Report Number: TERF2205000735E2

FCC ID 2BAIO471FTSVTAMP01

Date of EUT Received: May 25, 2022

Date of Test: May 31, 2022~June 1, 2022

Issue Date: June 16, 2023

Approved By



Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2205000735E2	00	Original.	March 22, 2023	Susan Lin	
TERF2205000735E2	01	1. Update applicant and manufacturer address, product name, model difference and EUT series number. 2. Add EUT model number in summary of test result table.	June 16, 2023	Susan Lin	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
Spurious Emissions have been assessed for passive component changes of the variant model to ensure compliance.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Mobile Blood Pressure Monitoring Device, Multi-Function Physiological Monitoring Device
Brand Name:	VITOM, VITOM Plus
Model No.:	VITOM3, VITOM3 Plus
Model Difference:	Please refer to section 1.4
Hardware Version:	V6
Firmware Version:	V3P0V1.0.0BD1
EUT Series No.:	VITOM3 : PJ214258002 VITOM3 Plus : TE_SP_20220501971
Power Supply:	3.7 Vdc from Rechargeable Li-polymer Battery or 5 Vdc from AC/DC Adapter
Test Software (Name/Version):	Default (Push button)

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	2.95 dBm

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Internal Antenna	Raytac Corp	MDBT42V-P	2402-2480	-3.81

Note: Antenna information is provided by the applicant.

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1.4 Model Difference

Product Name	Mobile Blood Pressure Monitoring Device	Multi-Function Physiological Monitoring Device
Brand Name	VITOM	VITOM Plus
Model No.	VITOM3	VITOM3 Plus
Model Difference (1)		Add ECG function (Only software)
Model Difference (2)		Add SpO2 function (Only software)
Model Difference (3)	POLYTRANS, PTLC0521NS (D2,D17)	x
Model Difference (4)	CROWNPO, ESDQR3V3BS (D9,D11,D13,D15,D16)	x
Model Difference (5)	Vishay, PhotoDiode_TEMD5080X01 (D10)	OSRAM,SFH 2200 Photodiode
Model Difference (6)	MURATA, Bead600R0.1A (L1,L2,L3,L5,L8,L12)	PANASONIC,ERJ-1GN0R00C, 0R, 1%, 0201
Model Difference (7)	MURATA, DLW31SN900SQ2L (L9)	TE,CRG0402ZR, 0R, 1%, 0402 (Change to R18,R25)
Model Difference (8)	YAGEO, RC0402FR-075M1L, 5.1M, 1%, 0402 (R21,R23)	x

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6	TW0027	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G	TW3702	TW0028

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 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 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/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

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 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.

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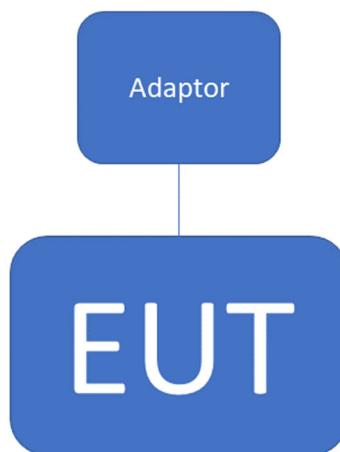
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2.5 Test Configuration

Conducted (Antenna Port)



Radiated Emission & Conduction (AC power line) Emission



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Samya	TR-08AM-1A	WI-09	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note	
§15.207(a)	AC Power Line Conducted Emission	Compliant	N	EUT Model No.: VITOM3 Plus
§15.247(b) (3)	Peak Output Power	Compliant		EUT Model No.: VITOM3
§15.247(a)(2)	Emission Bandwidth	Compliant		EUT Model No.: VITOM3
§15.247(d) §15.205 §15.209	Radiated & Conducted Band Edge and Spurious Emission	Compliant	S	EUT Model No.: VITOM3 and VITOM3 Plus
§15.247(e)	Peak Power Density	Compliant		EUT Model No.: VITOM3
§15.203	Antenna Requirement	Compliant		EUT Model No.: VITOM3

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report E2/2021/40075.

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

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	2416 MHz	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		

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.
3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

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RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	20	GFSK	1
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	
AC Power Line Conducted Emission	+/-	2.34 dB
Output Power measurement	+/-	1 dB
Emission Bandwidth	+/-	1.53 Hz
Undesignable radiated emission measurement	+/-	1.68 dB
Peak Power Density	+/-	1.62 dB
Temperature	+/-	0.4 °C
Humidity	+/-	3.5 %
DC / AC Power Source	+/-	1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.57 dB	9kHz~30MHz
	+/- 4.85 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.57 dB	9kHz~30MHz
	+/- 4.37 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/13/2022	04/12/2023
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023
Coaxial Cable	EC Lab	RF-HY-CAB-250-01	RF-HY-CAB-250-01	03/27/2022	03/26/2023
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2022	03/26/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/23/2020	07/22/2021
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021
DC Block	PASTERNACK	PE8210	RF153	11/19/2020	11/18/2021

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
3m Site NSA	SGS	966 chamber C	N/A	03/02/2021	03/01/2022
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

Spot Check

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/12/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/18/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/18/2022

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dB μ V)	
	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

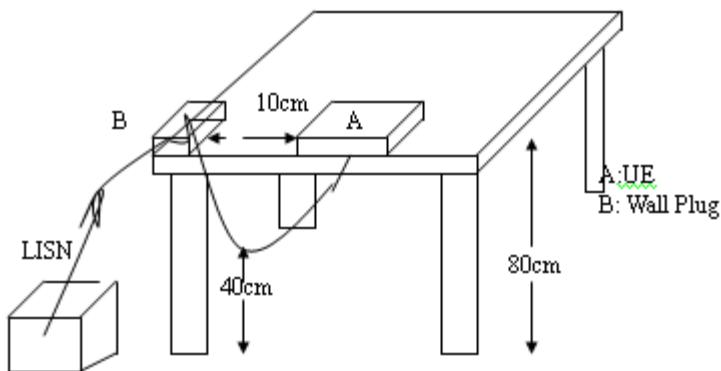
Note

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.

7.2 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.

7.3 Test Setup



7.4 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.

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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

7.5 Measurement Result:

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

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

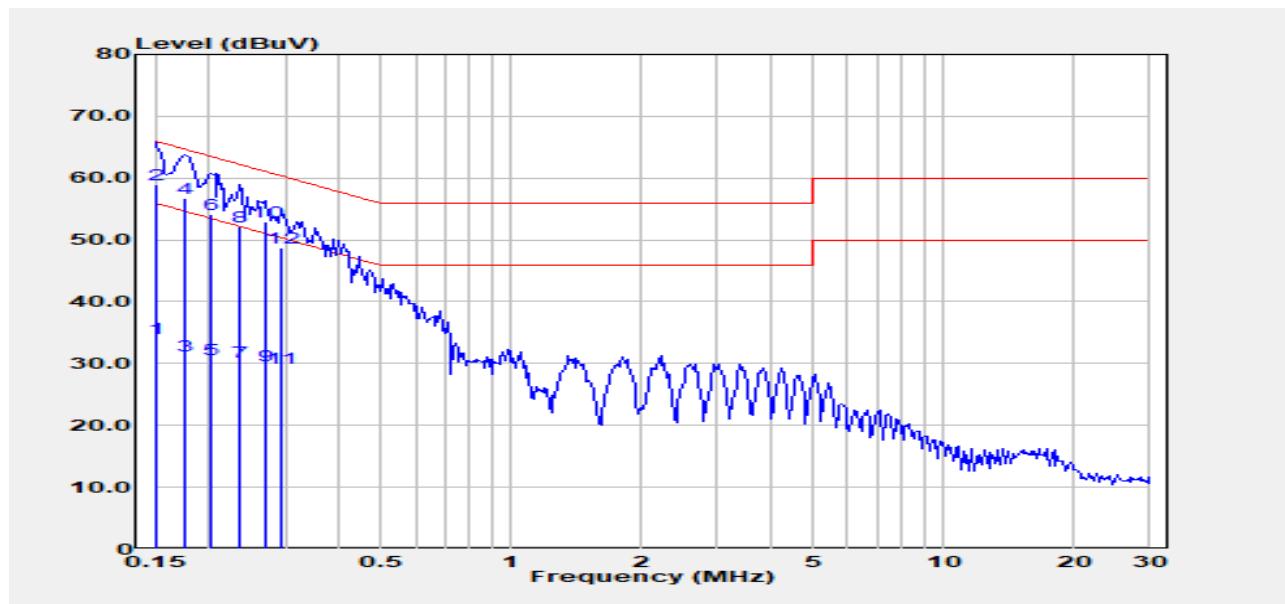
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Model No.: VITOM3 Plus

Report Number :TERF2205000735E2 Test Site :Conduction C
 Test Mode :BLE 1M Test Date :2022-06-01
 Power :120V/60Hz Temp./Humi. :21.5/62
 Probe :L1 Engineer :Howard Huang



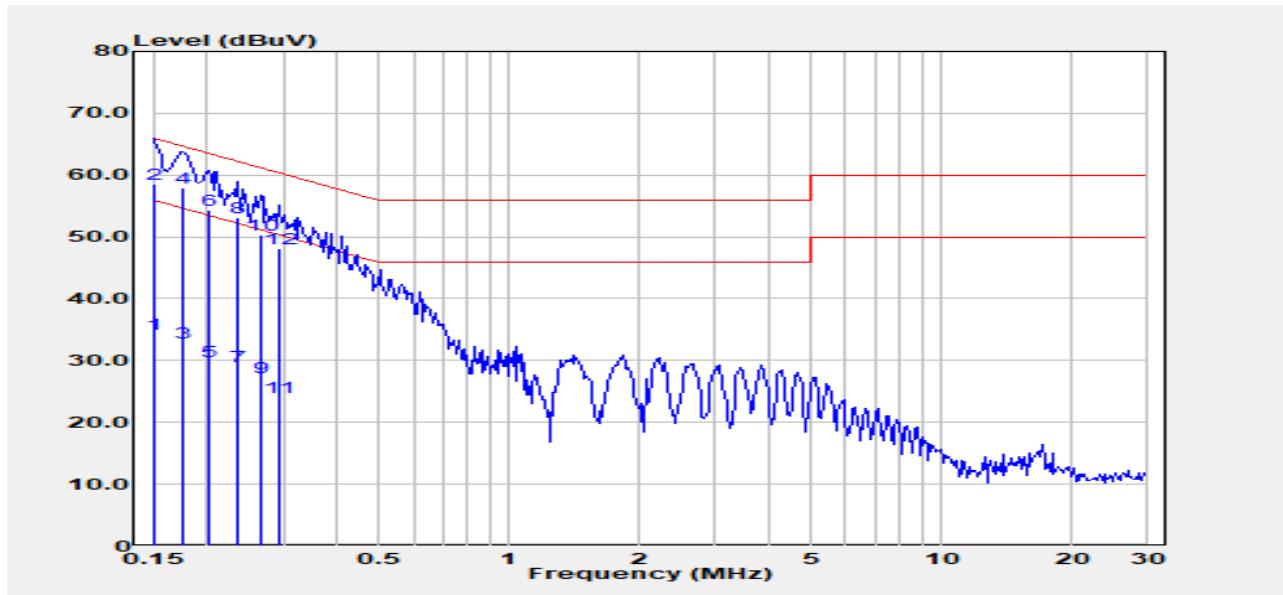
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Average	23.70	10.30	34.00	55.91	-21.91
0.152	QP	48.60	10.30	58.90	65.91	-7.01
0.176	Average	21.00	10.30	31.30	54.68	-23.38
0.176	QP	46.50	10.30	56.80	64.68	-7.88
0.202	Average	20.40	10.30	30.70	53.54	-22.84
0.202	QP	43.80	10.30	54.10	63.54	-9.44
0.237	Average	20.00	10.30	30.30	52.22	-21.91
0.237	QP	41.90	10.30	52.20	62.22	-10.01
0.269	Average	19.30	10.30	29.60	51.16	-21.56
0.269	QP	42.60	10.30	52.90	61.16	-8.26
0.292	Average	19.00	10.30	29.30	50.46	-21.15
0.292	QP	38.40	10.30	48.70	60.46	-11.75

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Report Number :TERF2205000735E2 Test Site :Conduction C
Test Mode :BLE 1M Test Date :2022-06-01
Power :120V/60Hz Temp./Humi. :21.5/62
Probe :N Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Average	23.90	10.31	34.21	55.91	-21.70
0.152	QP	48.20	10.31	58.51	65.91	-7.40
0.176	Average	22.50	10.30	32.80	54.68	-21.88
0.176	QP	47.70	10.30	58.00	64.68	-6.68
0.202	Average	19.60	10.30	29.90	53.54	-23.64
0.202	QP	44.10	10.30	54.40	63.54	-9.14
0.234	Average	18.70	10.30	29.00	52.30	-23.30
0.234	QP	42.80	10.30	53.10	62.30	-9.20
0.266	Average	16.90	10.31	27.21	51.25	-24.04
0.266	QP	40.00	10.31	50.31	61.25	-10.94
0.292	Average	13.80	10.31	24.11	50.46	-26.35
0.292	QP	37.80	10.31	48.11	60.46	-12.35

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 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.

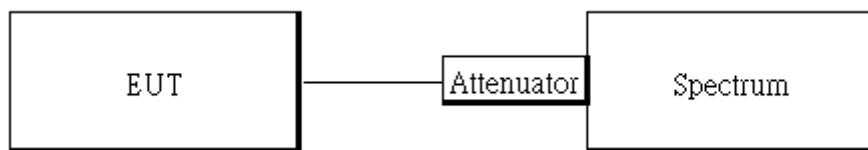
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

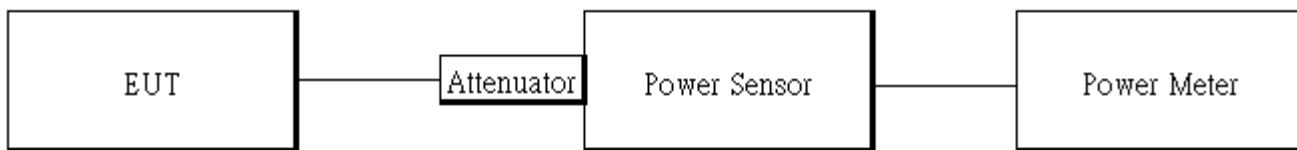
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



8.3 Measurement Procedure:

8.3.1 Duty Cycle

1. Place the EUT on the table and set it in transmitting mode.
2. Set span = Zero

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3. RBW = 8MHz, VBW = 8MHz,
4. Detector = Peak

8.3.2 Output Power

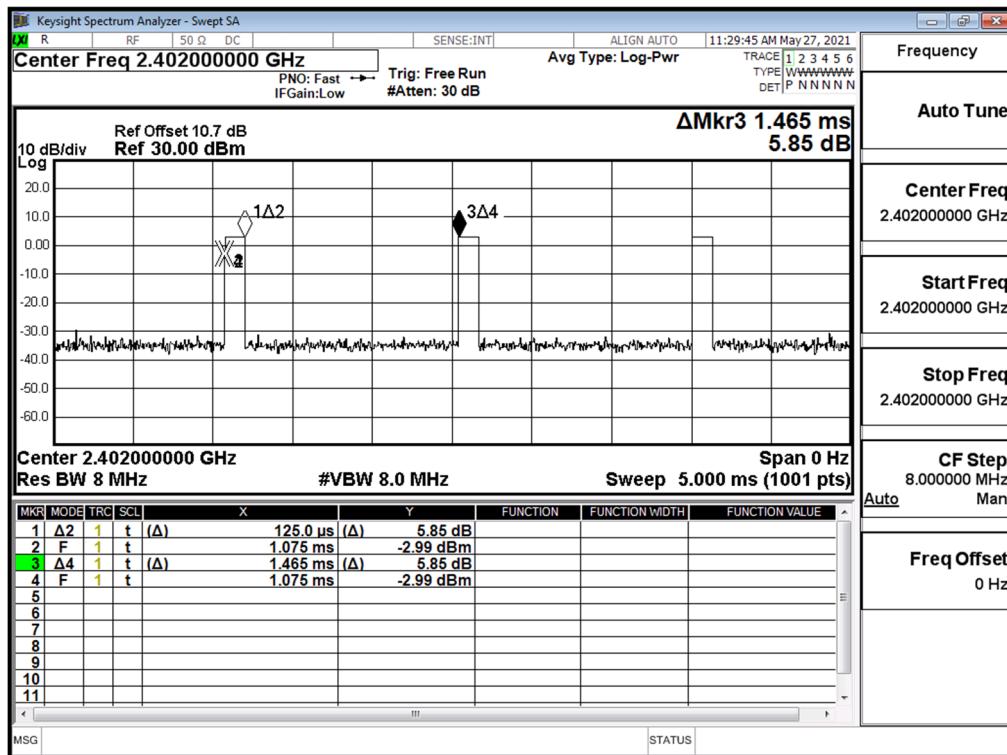
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

8.4 Duty Factor:

Model No.: VITOM3

Duty Cycle

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE	8.53	10.69	8.00	8.00



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8.5 Output Power:

8.5.1 Peak & Avg

Model No.: VITOM3

BLE mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	2.95	30
Mid	2442	2.81	30
High	2480	2.73	30
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	2.40	30
Mid	2442	2.27	30
High	2480	2.13	30

**Note: Measured by power meter, cable loss 10.7 dB + Duty cycle factor has been power meter for Avg. power and cable loss has been offseted for Peak power*

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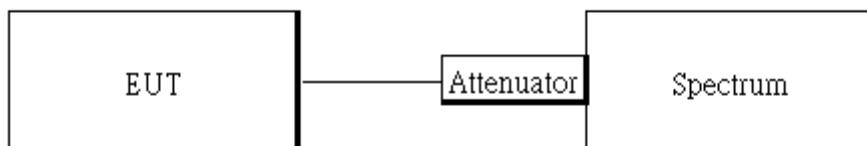
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 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.
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 the spectrum analyzer as
RBW= 100 kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Repeat above procedures until all test default channel is completed

9.4 Measurement Result:

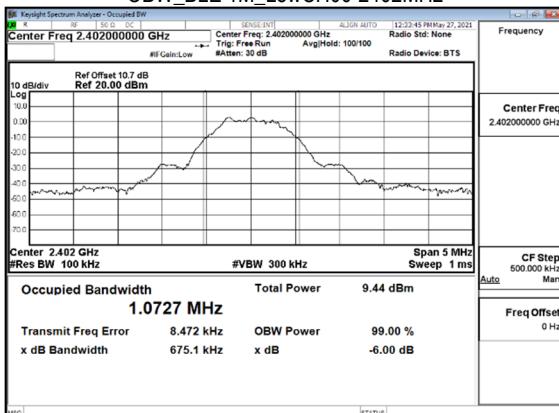
Model No.: VITOM3

BLE mode			
Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6751	≥ 0.5	PASS
2442	0.7029	≥ 0.5	PASS
2480	0.7229	≥ 0.5	PASS

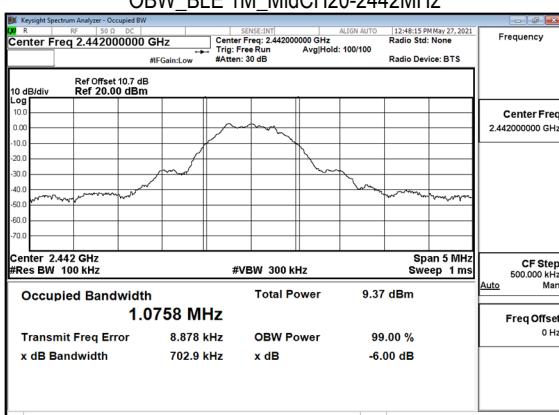
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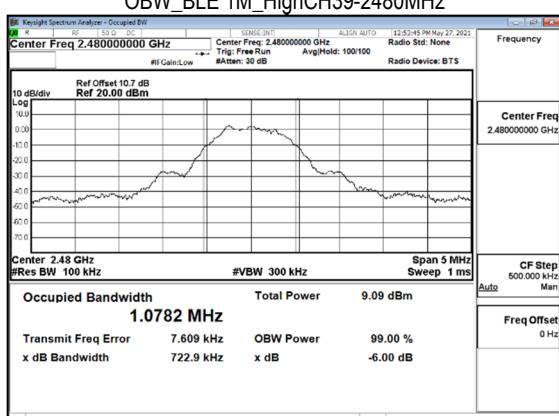
OBW_BLE 1M_LowCH00-2402MHz



OBW_BLE 1M_MidCH20-2442MHz



OBW_BLE 1M_HighCH39-2480MHz



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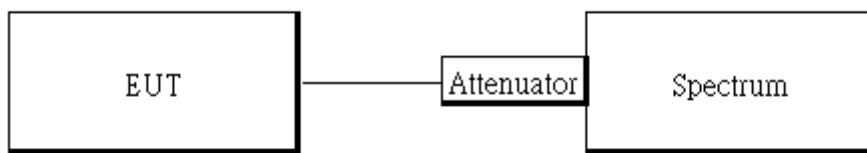
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 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.
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.

10.3.2 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.
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

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the spectrum to be examined.

5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Set DL as the limit = reading on marker of reference level measurement – 20dBm
7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
8. Repeat above procedures until all default test channel (low and high) was complete.

10.3.3 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.
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.

10.4 Measurement Result

Model No.: VITOM3

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	2.85	-17.15
2442	2.76	-17.24
2480	2.52	-17.48

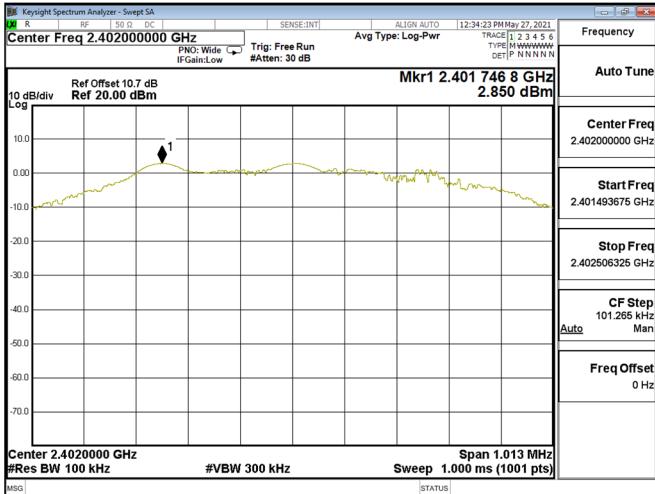
NOTE: cable loss as 10.7dB that offsets in the spectrum

NOTE: Refer to next page for plots.

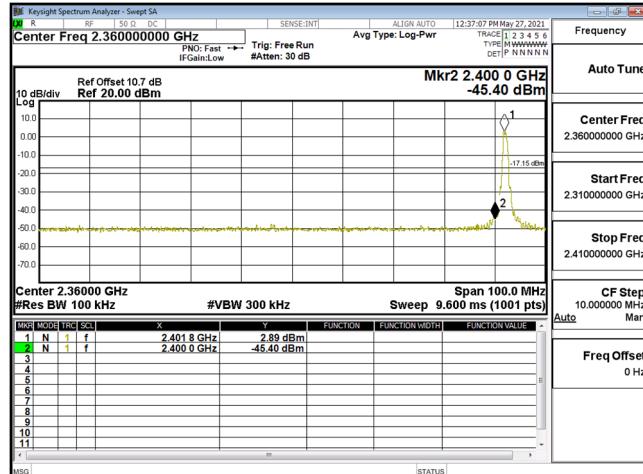
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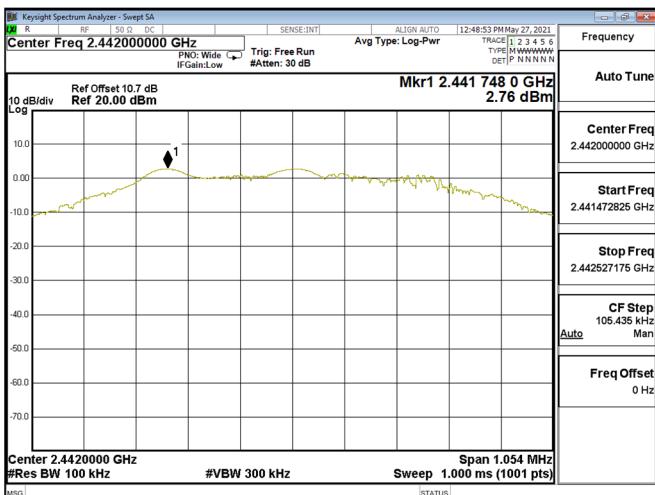
Reference Level_BLE 1M_LowCH00-2402MHz



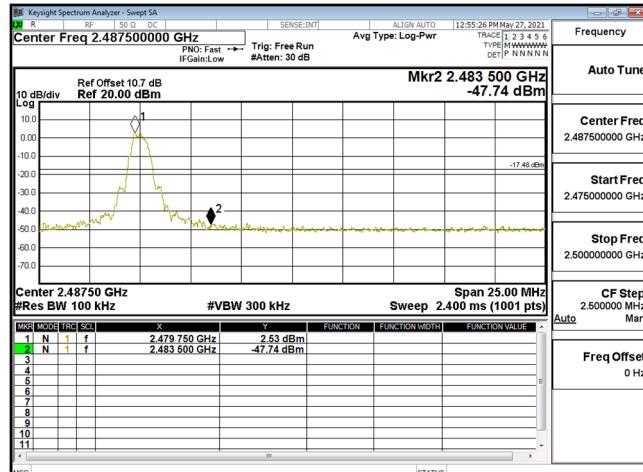
Band Edge_BLE 1M_LowCH00-2402MHz



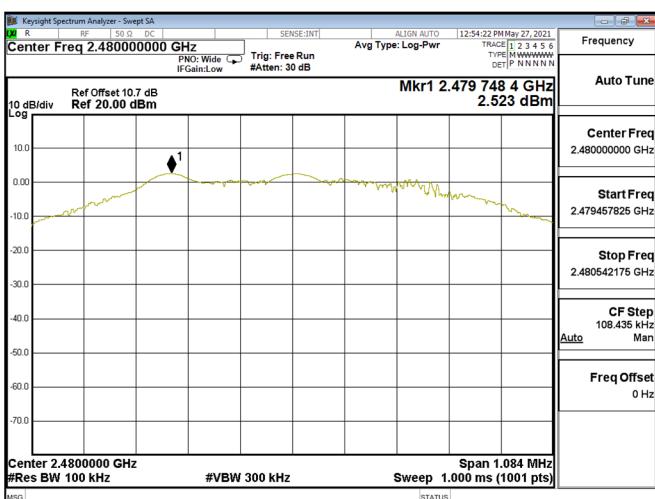
Reference Level_BLE 1M_MidCH20-2442MHz



Band Edge_BLE 1M_HighCH39-2480MHz



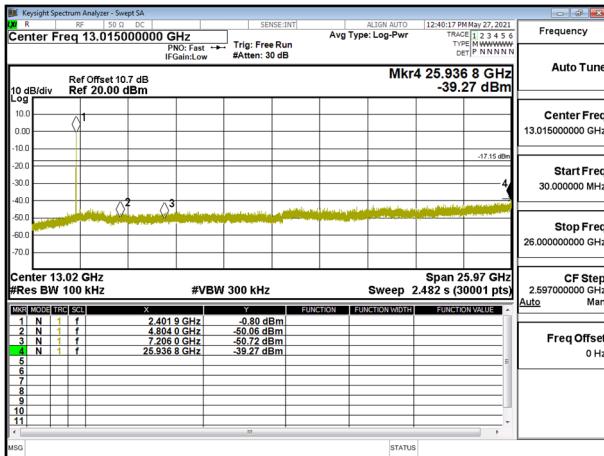
Reference Level_BLE 1M_HighCH39-2480MHz



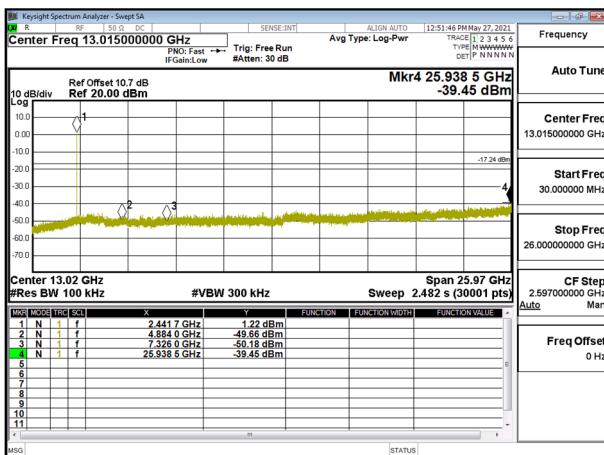
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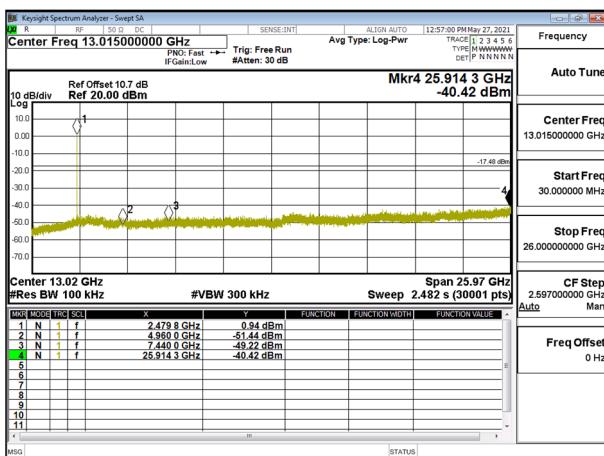
Spurious Emission_BLE 1M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



Spurious Emission_BLE 1M_HighCH39-2480MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 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 §15.209 limit as below.

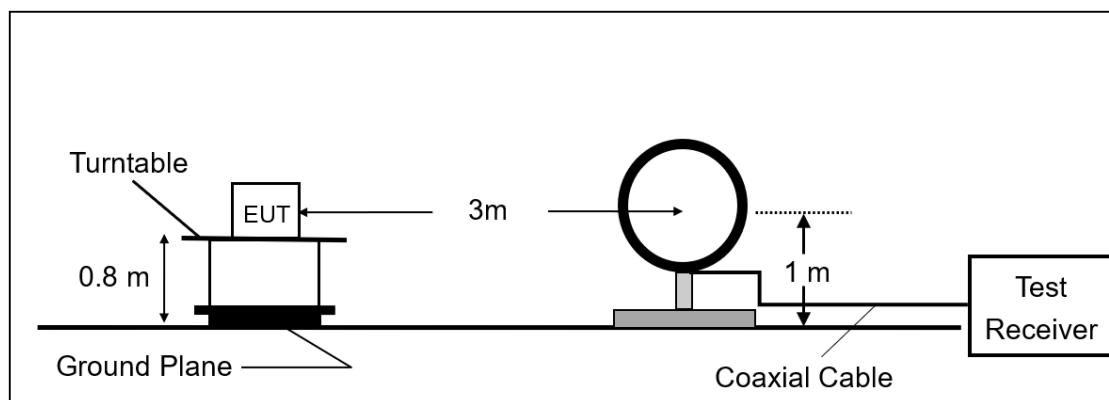
And according to §15.33(a) (1) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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: The lower limit shall apply at the transition frequencies.

11.2 Test Setup

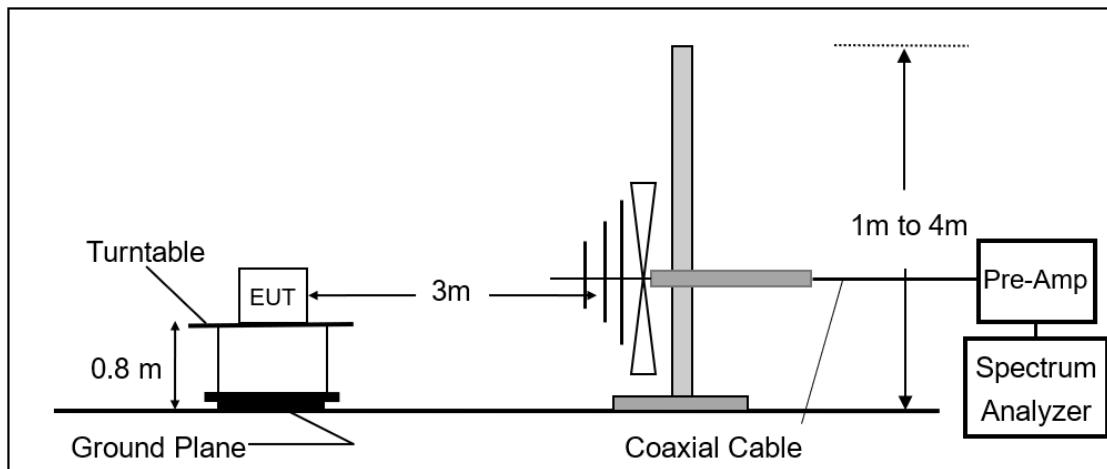
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



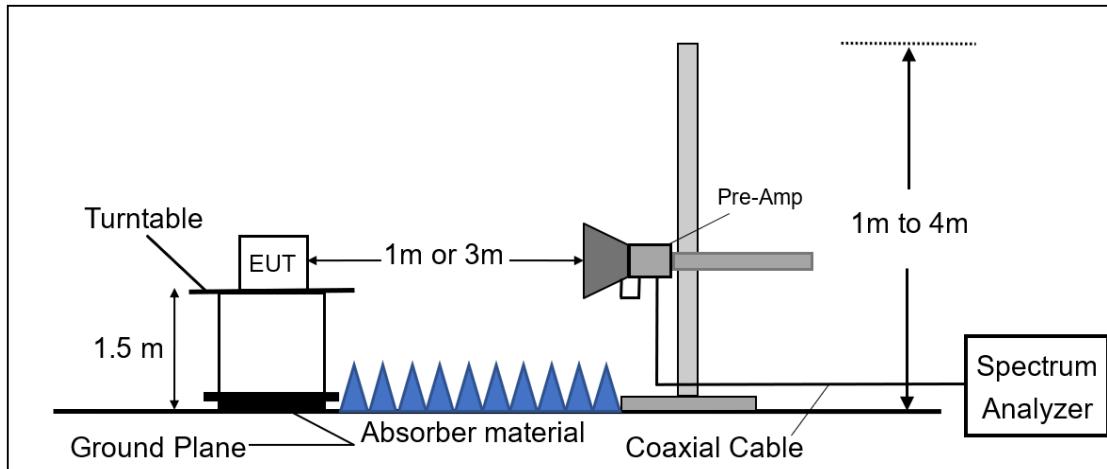
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



11.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
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=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. 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.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

11.4 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

The limit of the emission level is expressed in $dB\mu V/m$, which converts $20 * \log(uV/m)$

Actual $FS(dB\mu V/m)$ = SPA. Reading level($dB\mu V$) + Factor(dB)

Factor(dB) = Antenna Factor($dB\mu V/m$) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

11.5 Test Results of Radiated Spurious Emissions from 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.

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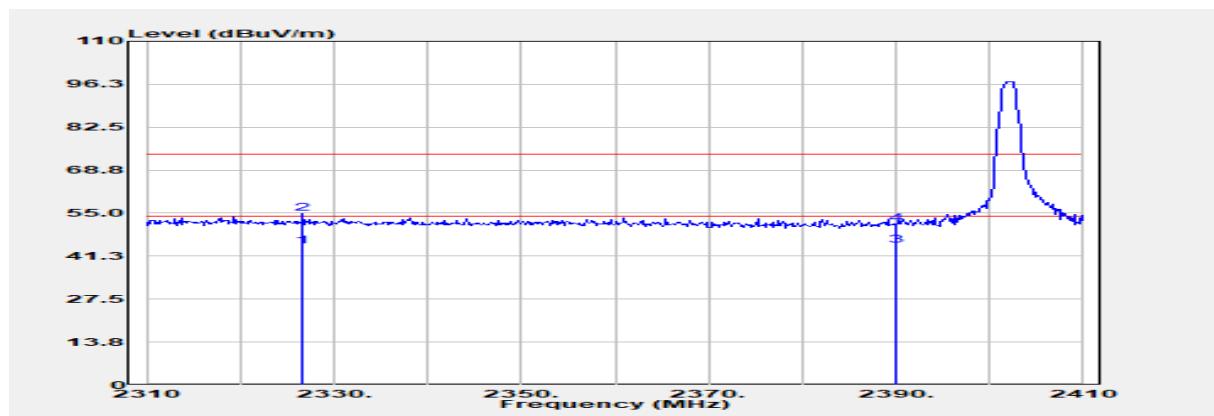
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11.6 Measurement Result:

11.6.1 Radiated Band Edge Measurement Result

Model No.: VITOM3

Report Number :E2/2021/40075 Test Site :966 Chamber C
Operation Mode :BLE 1M Test Date :2021-05-28
Test Frequency :2402 MHz Temp./Humi. :24.3/58
Test Mode :BE CH LOW Antenna Pol. :Vertical
EUT Pol :H Plane Engineer :Ashton Chiu



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
2326.667	Average	38.52	5.74	44.26	54.00	-9.74
2326.667	Peak	49.18	5.74	54.92	74.00	-19.08
2390.000	Average	39.59	5.18	44.77	54.00	-9.23
2390.000	Peak	46.29	5.18	51.47	74.00	-22.53

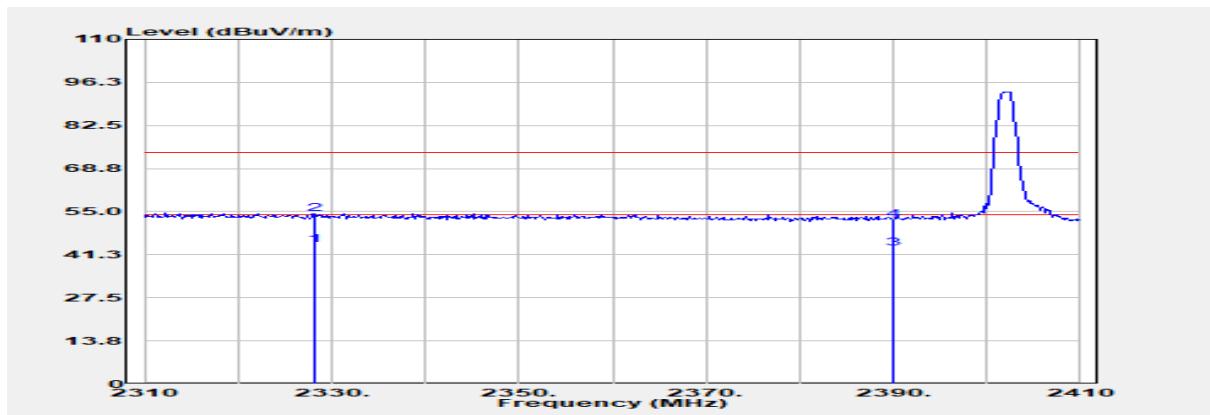
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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :24.3/58
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



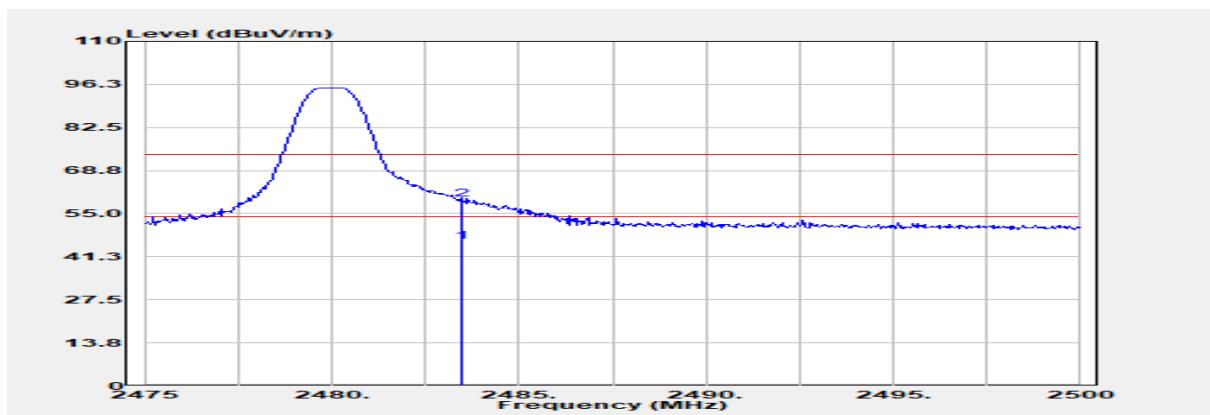
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2328.109	Average	38.65	5.72	44.37	54.00	-9.63
2328.109	Peak	48.71	5.72	54.43	74.00	-19.57
2390.000	Average	38.22	5.18	43.40	54.00	-10.60
2390.000	Peak	47.24	5.18	52.42	74.00	-21.58

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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :24.3/58
Antenna Pol. :Vertical
Engineer :Ashton Chiu



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
2483.500	Average	41.87	4.04	45.91	54.00	-8.09
2483.500	Peak	55.42	4.04	59.46	74.00	-14.54

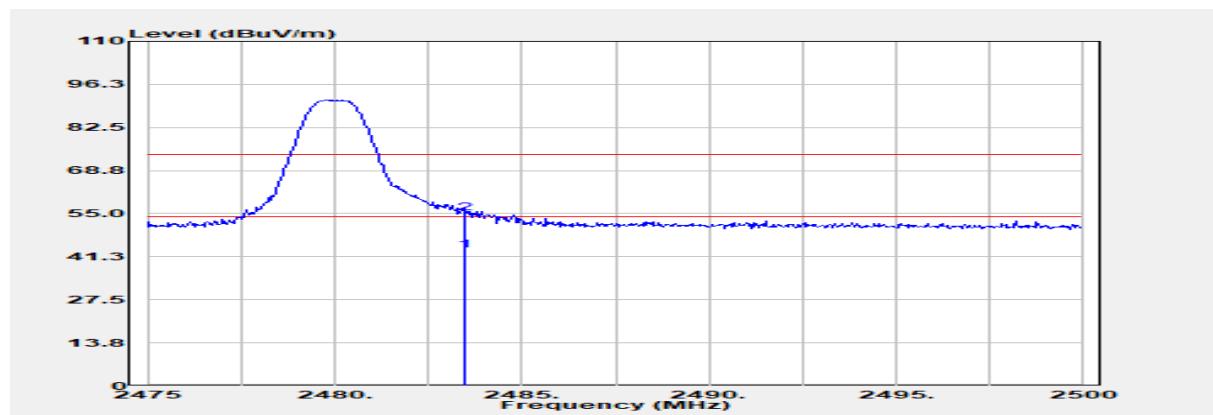
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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :24.3/58
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	39.22	4.04	43.26	54.00	-10.74
2483.500	Peak	51.06	4.04	55.10	74.00	-18.90

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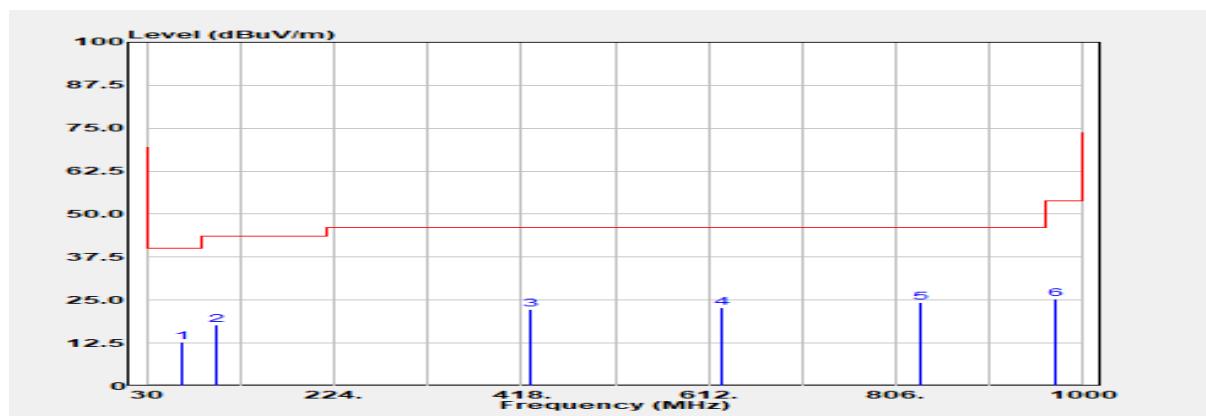
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11.6.2 Radiated Spurious Emission

Model No.: VITOM3

Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-31
Temp./Humi. :25.5/51
Antenna Pol. :VERTICAL
Engineer :Ashton Chiu



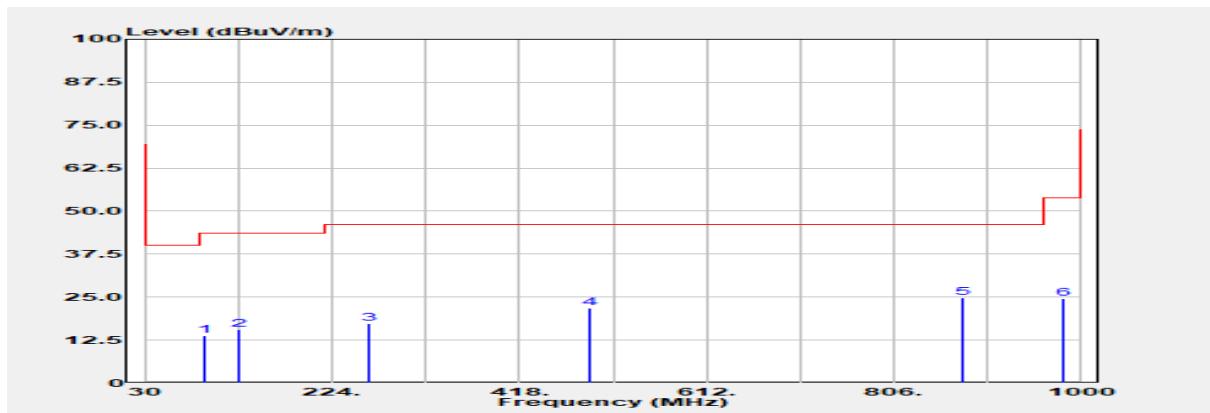
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
65.753	Peak	36.15	-23.25	12.90	40.00	-27.10
101.506	Peak	37.38	-19.52	17.86	43.50	-25.64
426.394	Peak	33.78	-11.59	22.20	46.00	-23.80
625.369	Peak	31.16	-8.26	22.90	46.00	-23.10
832.115	Peak	31.29	-6.86	24.43	46.00	-21.57
972.019	Peak	31.18	-5.95	25.24	54.00	-28.76

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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-31
Temp./Humi. :25.5/51
Antenna Pol. :HORIZONTAL
Engineer :Ashton Chiu



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
92.179	Peak	34.81	-21.00	13.80	43.50	-29.70
126.378	Peak	32.38	-16.78	15.60	43.50	-27.90
261.619	Peak	32.44	-15.09	17.35	46.00	-28.65
490.128	Peak	32.34	-10.56	21.78	46.00	-24.22
877.196	Peak	31.28	-6.51	24.77	46.00	-21.23
981.346	Peak	29.52	-4.87	24.64	54.00	-29.36

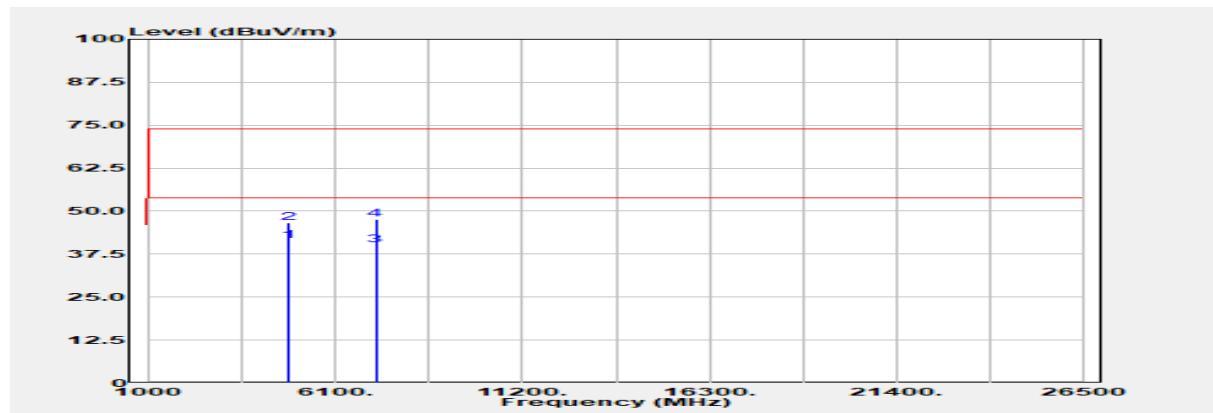
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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :TX CH LOW
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :25.5/51
Antenna Pol. :Vertical
Engineer :Ashton Chiu



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
4804.000	Average	30.55	10.87	41.42	54.00	-12.58
4804.000	Peak	35.63	10.87	46.51	74.00	-27.49
7206.000	Average	22.86	17.27	40.13	54.00	-13.87
7206.000	Peak	30.40	17.27	47.67	74.00	-26.33

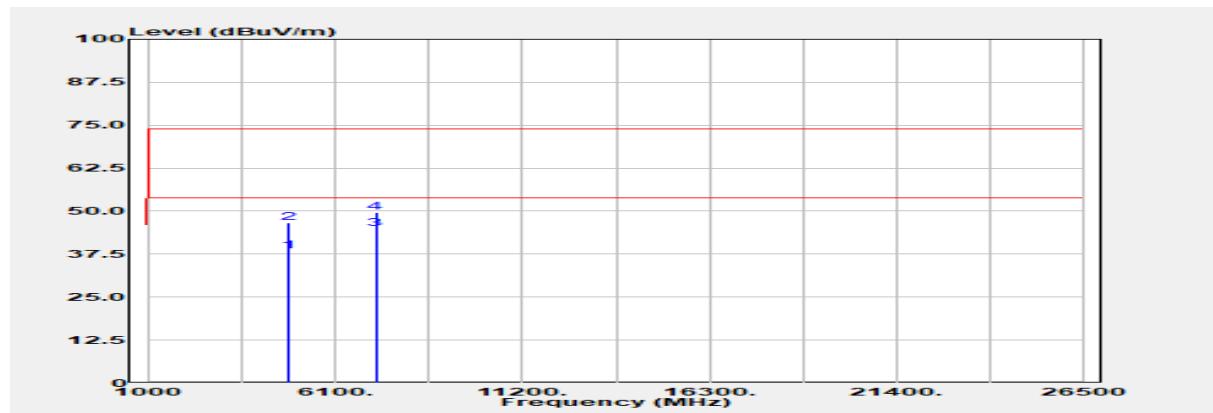
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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :TX CH LOW
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :25.5/51
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



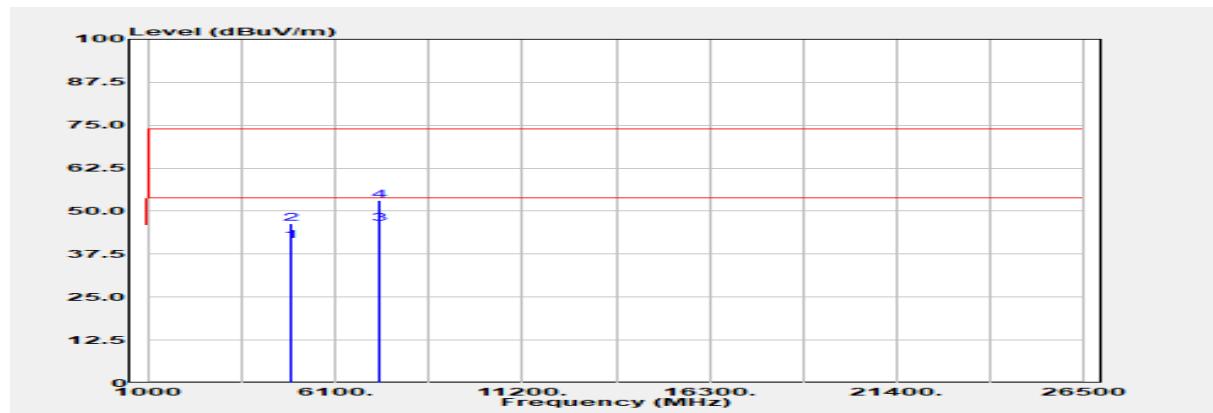
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	27.40	10.87	38.27	54.00	-15.73
4804.000	Peak	35.86	10.87	46.74	74.00	-27.26
7206.000	Average	27.54	17.27	44.81	54.00	-9.19
7206.000	Peak	32.42	17.27	49.69	74.00	-24.31

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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :25.5/51
Antenna Pol. :Vertical
Engineer :Ashton Chiu



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
4884.000	Average	31.22	10.16	41.38	54.00	-12.62
4884.000	Peak	36.13	10.16	46.29	74.00	-27.71
7326.000	Average	28.16	18.20	46.36	54.00	-7.64
7326.000	Peak	34.93	18.20	53.13	74.00	-20.87

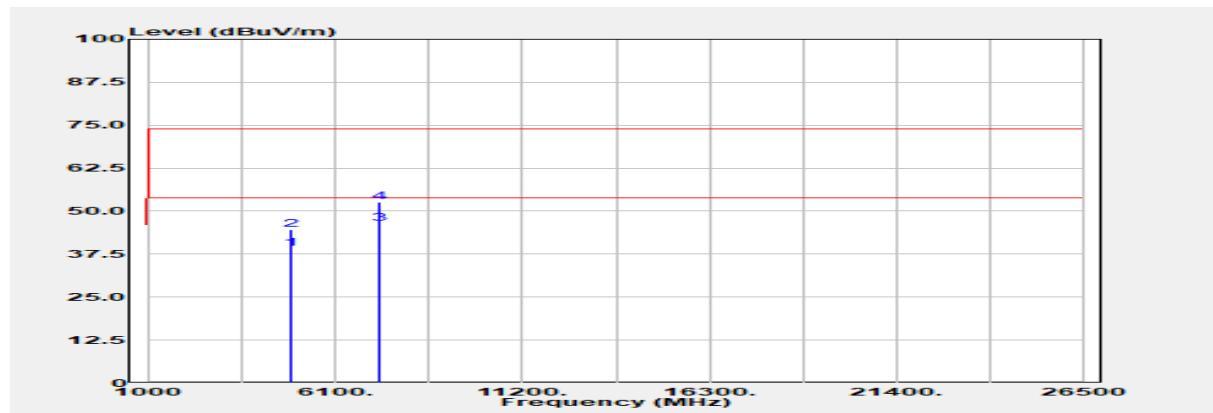
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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :TX CH MID
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :25.5/51
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



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
4884.000	Average	29.04	10.16	39.20	54.00	-14.80
4884.000	Peak	34.42	10.16	44.58	74.00	-29.42
7326.000	Average	28.14	18.20	46.34	54.00	-7.66
7326.000	Peak	34.48	18.20	52.68	74.00	-21.32

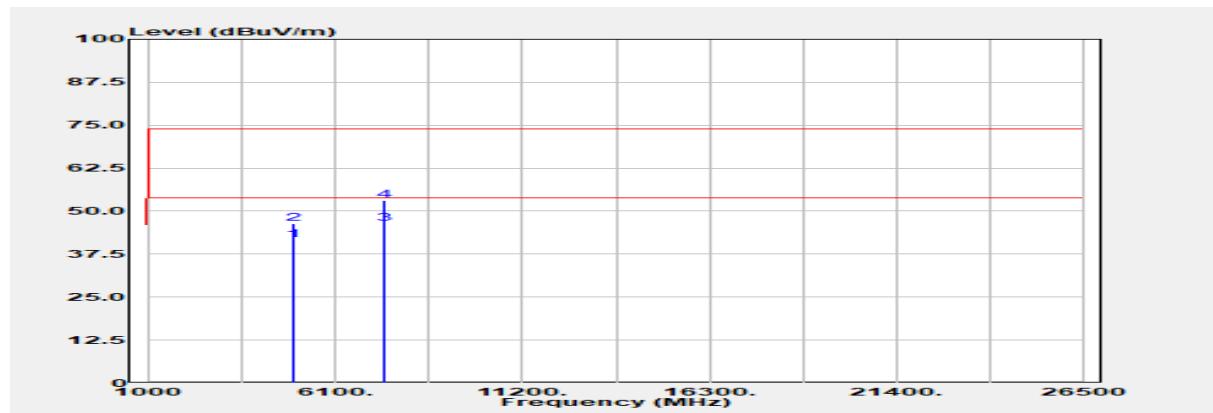
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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :25.5/51
Antenna Pol. :Vertical
Engineer :Ashton Chiu



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
4960.000	Average	31.35	10.20	41.55	54.00	-12.45
4960.000	Peak	36.12	10.20	46.32	74.00	-27.68
7440.000	Average	28.40	17.86	46.26	54.00	-7.74
7440.000	Peak	35.21	17.86	53.07	74.00	-20.93

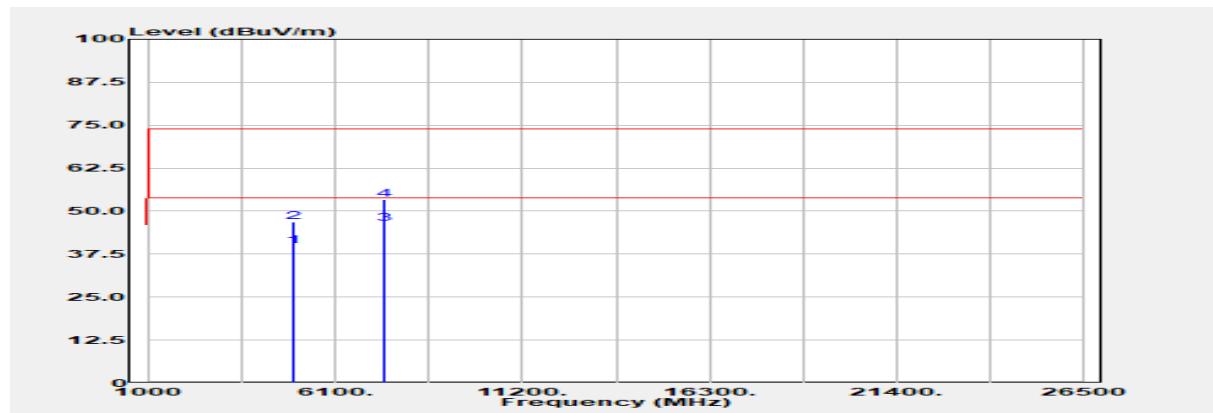
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Report Number :E2/2021/40075
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plane

Test Site :966 Chamber C
Test Date :2021-05-28
Temp./Humi. :25.5/51
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



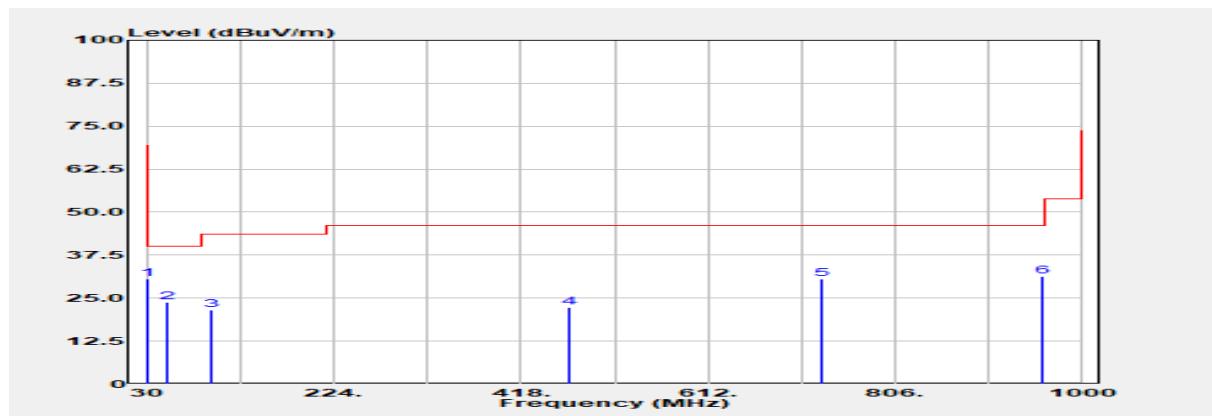
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	29.76	10.20	39.96	54.00	-14.04
4960.000	Peak	36.70	10.20	46.90	74.00	-27.10
7440.000	Average	28.46	17.86	46.32	54.00	-7.68
7440.000	Peak	35.55	17.86	53.41	74.00	-20.59

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Spot Check**Model No.: VITOM3 Plus**

Report Number	:TERF2205000735E2	Test Site	:SAC D
Operation Mode	:BLE 1M	Test Date	:2022-05-31
Test Frequency	:2402 MHz	Temp./Humi.	:22.1/71
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



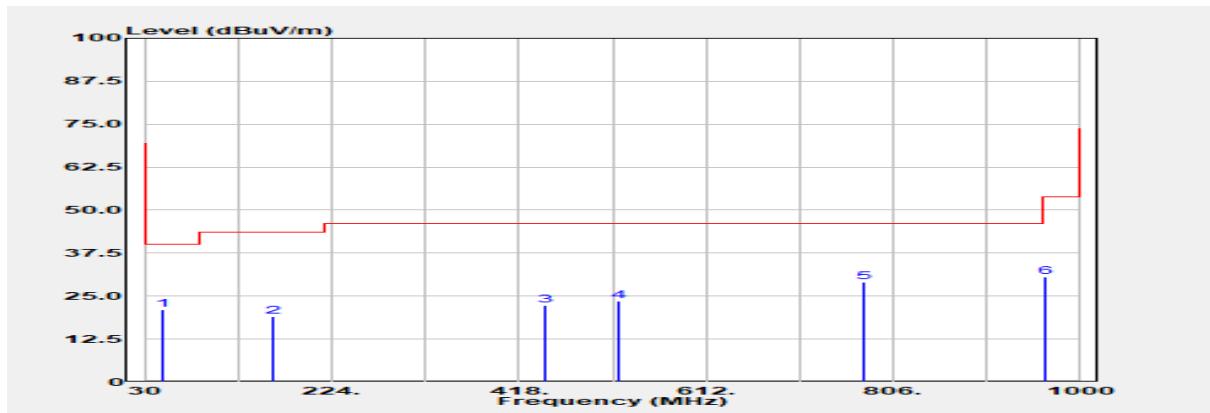
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.940	Peak	49.97	-19.32	30.66	40.00	-9.34
50.370	Peak	41.11	-17.30	23.82	40.00	-16.18
97.900	Peak	43.34	-21.81	21.54	43.50	-21.96
467.470	Peak	34.00	-11.61	22.40	46.00	-23.60
729.370	Peak	38.56	-7.95	30.61	46.00	-15.39
958.290	Peak	35.59	-4.24	31.34	46.00	-14.66

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Report Number :TERF2205000735E2 Test Site :SAC D
Operation Mode :BLE 1M Test Date :2022-05-31
Test Frequency :2402 MHz Temp./Humi. :22.1/71
Test Mode :TX CH LOW Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Howard Huang



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
48.430	Peak	38.53	-17.44	21.09	40.00	-18.91
162.890	Peak	35.60	-16.47	19.13	43.50	-24.37
445.160	Peak	34.23	-11.99	22.24	46.00	-23.76
521.790	Peak	34.42	-10.78	23.64	46.00	-22.36
774.960	Peak	35.77	-6.65	29.12	46.00	-16.88
963.140	Peak	34.84	-4.27	30.56	54.00	-23.44

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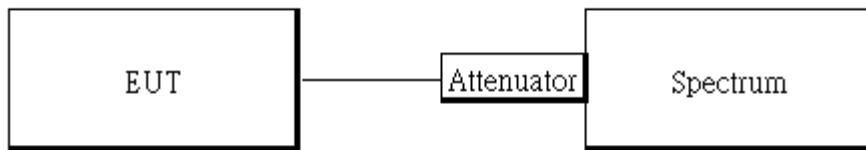
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12 POWER SPECTRAL DENSITY

12.1 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.

12.2 Test Setup



12.3 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.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 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.

12.4 Measurement Result:

Model No.: VITOM3

BLE mode

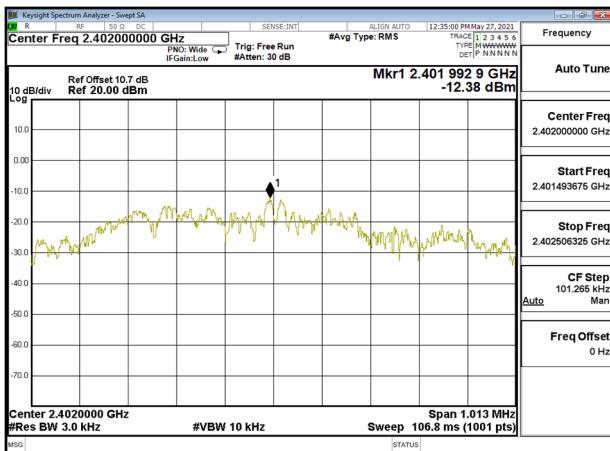
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-12.380	8	PASS
2442	-12.780	8	PASS
2480	-12.030	8	PASS

NOTE: cable loss as 10.7dB that offsets in the spectrum

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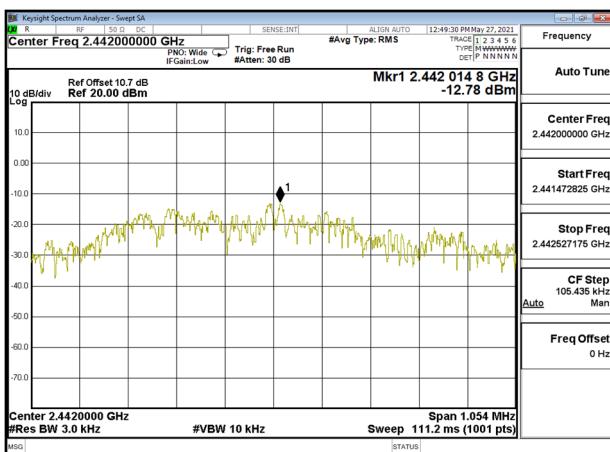
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PSD_BLE 1M_LowCH00-2402MHz



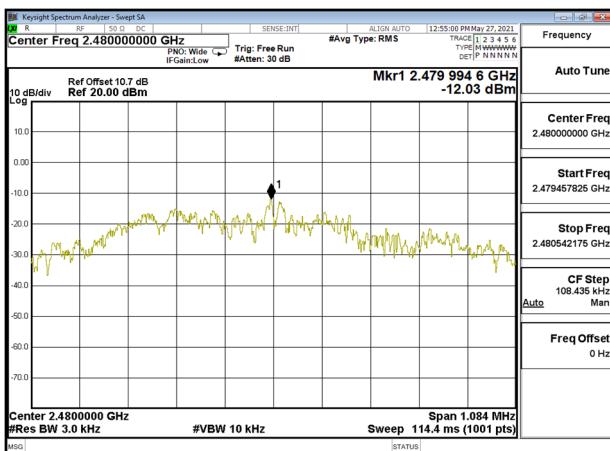
Frequency
Auto Tune
Center Freq 2.40200000 GHz
Start Freq 2.401493675 GHz
Stop Freq 2.402506325 GHz
CF Step 101.265 kHz
Auto
Freq Offset 0 Hz

PSD_BLE 1M_MidCH20-2442MHz



Frequency
Auto Tune
Center Freq 2.44200000 GHz
Start Freq 2.441472825 GHz
Stop Freq 2.442527175 GHz
CF Step 105.435 kHz
Auto
Freq Offset 0 Hz

PSD_BLE 1M_HighCH39-2480MHz



Frequency
Auto Tune
Center Freq 2.48000000 GHz
Start Freq 2.479457825 GHz
Stop Freq 2.480542175 GHz
CF Step 108.435 kHz
Auto
Freq Offset 0 Hz

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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13 ANTENNA REQUIREMENT

13.1 Standard Applicable:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 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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