

TEST REPORT

Product : Wireless dynamic multi-parameter holter

Trade mark : N/A

Model/Type reference : M5,M12,Lepod,Lepod Pro,LMT-5,LMT-12

Test Model No. : M12 Serial Number : N/A

Report Number : EED32O80211001

FCC ID : 2ADXK-8100

Date of Issue : Mar. 30, 2022

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Shenzhen Viatom Technology Co., Ltd.

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Mar. 30, 2022

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Check No.: 4753210222





Content

1 CONTENT	
2 VERSION	 3
3 TEST SUMMARY	 4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	
5 EQUIPMENT LIST5	
6 TEST RESULTS AND MEASUREMENT DATA	 11
6.1 ANTENNA REQUIREMENT	
7 APPENDIX A	 34
PHOTOGRAPHS OF TEST SETUP	 35
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	37







































Page 3 of 46

2 Version

Version No.	Date	6	Description	9
00	Mar. 30, 2022		Original	
	0			
((02)	(3)	(6,7)











































































Page 4 of 46

3 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	N/A
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output47 CFR Part 15 Subpart C SectionPower15.247 (b)(3)		PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

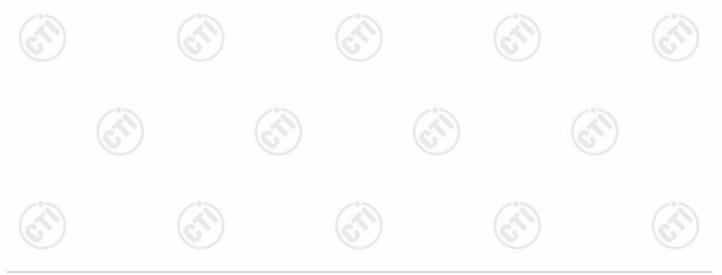
N/A: When the EUT charging, BLE will not work, So Not Applicable.

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: M5,M12,Lepod,Lepod Pro,LMT-5,LMT-12

Only the model M12 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being shell color and whether or not a core conductance cable is available.





Report No.:EED32O80211001 Page 5 of 46

4 General Information

4.1 Client Information

Applicant:	Shenzhen Viatom Technology Co., Ltd.		
Address of Applicant:	4E, Building 3, Tingwei Industrial Park, No.6 Liufang Road, Block 67,Xin'an Street, Baoan District, Shenzhen, 518101, Guangdong, China		
Manufacturer:	Shenzhen Viatom Technology Co., Ltd.		
Address of Manufacturer:	4E, Building 3, Tingwei Industrial Park, No.6 Liufang Road, Block 67,Xin'an Street, Baoan District, Shenzhen, 518101, Guangdong, China		
Factory:	Shenzhen Viatom Technology Co., Ltd.		
Address of Factory:	4E, Building 3, Tingwei Industrial Park, No.6 Liufang Road, Block 67,Xin'an Street, Baoan District, Shenzhen, 518101, Guangdong, China		

4.2 General Description of EUT

Product Name:	Wireless dynamic multi-parameter holter	
Mode No.:	M5,M12,Lepod,Lepod Pro,LMT-5,LMT-12	(:)
Test Mode No.:	M12	(6.7)
Trade mark:	N/A	
EUT Supports Radios application:	BT 5.1 Dual mode, 2402MHz to 2480MHz	
Bluetooth Version:	V5.1	
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location	
Power Supply:	Battery: DC 3.8V,1.52Wh,400mAh	
Test Voltage:	DC 3.8V	
Sample Received Date:	Mar . 22, 2022	/:5
Sample tested Date:	Mar . 28, 2022 to Mar. 29, 2022	(6:7)

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz		
Modulation Type:	GFSK	· · ·	~
Transfer Rate:	⊠1Mbps ⊠2Mbps	(27)	
Number of Channel:	40		
Antenna Type:	Internal Antenna		
Antenna Gain:	3.45 dBi		



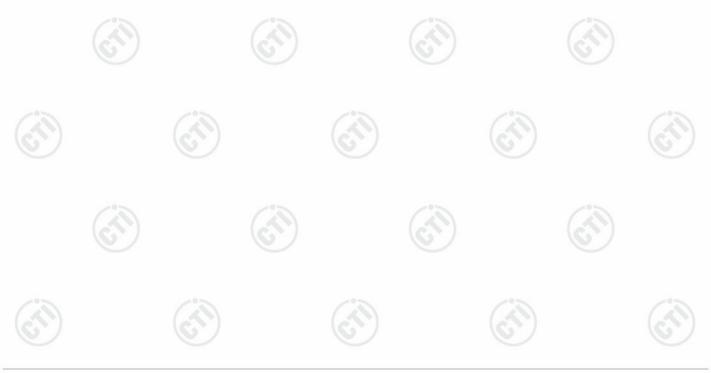




Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz







4.4 Test Configuration

EUT Test Software	Settings:				
Software:	-0-	nRF_DTM	-0-	-0-	
EUT Power Grade:	(41)	Default	(41)	(40)	
Use test software to transmitting of the E		est frequency	, the middle frequ	uency and the highest f	requency keep
Test Mode	Modu	ulation	Rate	Channel	Frequency(MHz)
Mode a	GF	SK	1Mbps	CH0	2402
Mode b	GF	SK	1Mbps	CH19	2440
Mode c	GF	SK	1Mbps	CH39	2480
Mode d	GF	SK	2Mbps	CH0	2402
Mode e	GF	SK	2Mbps	CH19	2440
Mode f	GF	SK	2Mbps	CH39	2480

4.5 Test Environment

C	Operating Environment:						
R	Radiated Spurious Emis	ssions:					
Т	emperature:	22~25.0 °C					
F	Humidity:	50~55 % RH					
Α	Atmospheric Pressure:	1010mbar	-0-				700
F	RF Conducted:						
/ T	emperature:	22~25.0 °C					
H	Humidity:	50~55 % RH					
Α	Atmospheric Pressure:	1010mbar					















Report No.:EED32O80211001 Page 8 of 46

4.6 Description of Support Units

The EUT has been tested with associated equipment below.

	ociated nent name	Manufacture	model	S/N serial number	Supplied by	Certification
ΑE	Notebook	DELL	DELL 3490	D245DX2	CTI	CE&FCC

4.7 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

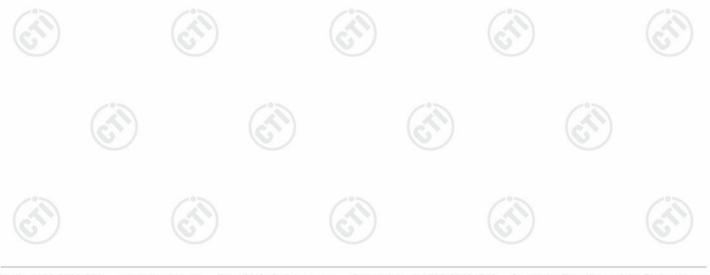
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE newer conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
3		3.3dB (9kHz-30MHz)
	Dadiated Shuriana amission test	4.3dB (30MHz-1GHz)
	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%
20 1	(67.7)	





Report No.:EED32O80211001 Page 9 of 46

5 Equipment List

	RF test system								
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022				
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022				
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022				
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022				
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022				
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022				
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022				
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022				
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-24-2021	06-23-2022				
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518						

3M Semi/full-anechoic Chamber							
Equipment	uipment Manufacturer		quipment Manufacturer Model No. Serial Number		Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd- yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		05-24-2019	05-23-2022		
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2021	05-15-2022		
Receiver	R&S	ESCI7	100938-003	10-14-2021	10-13-2022		
Multi device Controller	maturo	NCD/070/10711 112	(2)	(<u> (6)</u>		
Horn Antenna	ETS- LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04-14-2024		
Spectrum Analyzer	R&S	FSP40	100416	04-29-2021	04-28-2022		
Microwave Preamplifier	Agilent	8449B	3008A02425	06-23-2021	06-22-2022		





Page 10 of 46

		3M full-anechoic	Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd- yyyy)	
RSE Automatic test software	JS Tonscend	JS36-RSE	10166			
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023	
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023	
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022	
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022	
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022	
Fully Anechoic Chamber	TDK	FAC-3	(C)	01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM-2.50M	394812-0001			
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	COT		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	(C.)		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001			
Cable line	Times	EMC104-NMNM-1000	SN160710	(<u>:</u>	
Cable line	e line Times SFT205-NMSM-3.00N		394813-0001		9)	
Cable line	Times	SFT205-NMNM-1.50M	381964-0001			
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	(in		
Cable line	Times	HF160-KMKM-3.00M	393493-0001	(a)		















6 Test results and Measurement Data

6.1 Antenna Requirement

15.203 requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna: Please see Internal photos

The antenna is Internal Antenna. The best case gain of the antenna is 3.45dBi.







6.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)						
Test Method:	ANSI C63.10 2013						
Test Setup:		(20)					
	Control Computer Power Supply Power pot Table RF test System Instrument Table						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Procedure:	 a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. 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. 	(C)					
Limit:	30dBm	/°>					
Test Mode:	Refer to clause 5.3	(41)					
Test Results:	Refer to Appendix A						
	Test Method: Test Setup: Test Procedure: Limit: Test Mode:	Test Method: ANSI C63.10 2013 Test Setup: RF test System Instrument Remark: Offset=Cable loss+ attenuation factor. a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. 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. Limit: 30dBm Test Mode: RF test System Instrument RF test System Instrument Instrument Refer to clause 5.3					







6.3 DTS Bandwidth

10.0	Alkari / Alkari / Alkari /
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Computer Power Supply Table RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Limit:	≥ 500 kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

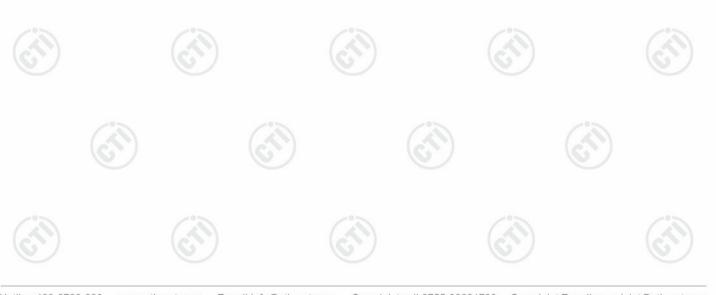






6.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)					
Test Method:	ANSI C63.10 2013					
Test Setup:						
	Control Computer Power Supply Control Adenna Power Poor(N) Adenna Attenuator TEMPERATURE CABNET Table	RF test System Instrument				
	Remark: Offset=Cable loss+ attenua	ation factor.				
Test Procedure:	within the RBW.	bandwidth.				
Limit:	≤8.00dBm/3kHz					
Test Mode: Refer to clause 5.3						
Test Results:	Refer to Appendix A					

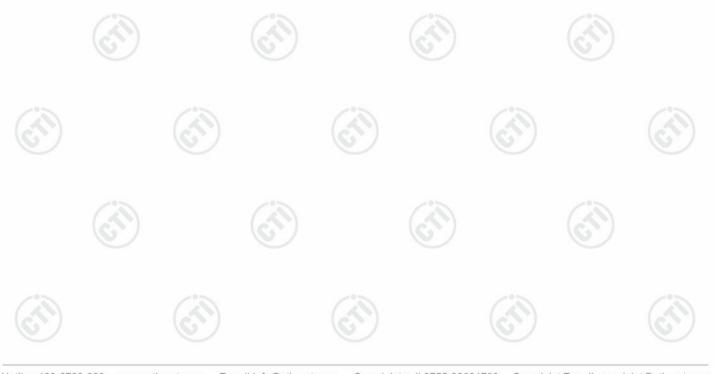




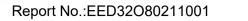


6.5 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Computer Power pod(b) Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A



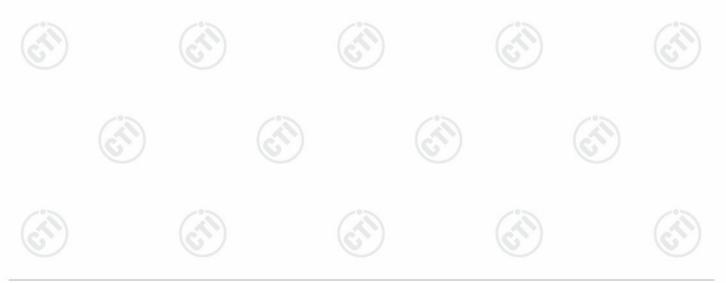






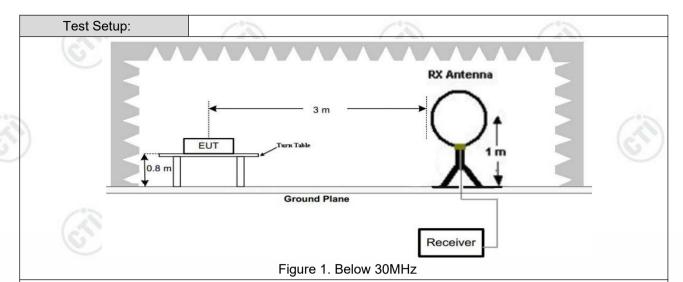
6.6 Radiated Spurious Emission & Restricted bands

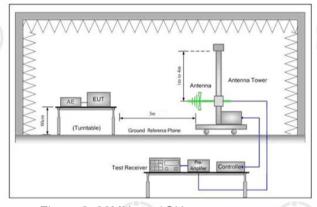
160.00	100		100		180,0			
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	noic Cham	ber)	-51				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MH	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MH	lz	Average	10kHz	30kHz	Average		
	0.090MHz-0.110MH	lz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	0.110MHz-0.490MH	lz	Peak	10kHz	30kHz	Peak		
	0.110MHz-0.490MH	lz	Average	10kHz	30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
			Peak	1MHz	10kHz	Average		
Limit:	Frequency	1	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m		
	0.009MHz-0.490MHz 2		400/F(kHz)	-	-/05	300		
	0.490MHz-1.705MHz 24		1000/F(kHz)	-	(A)	30		
	1.705MHz-30MHz		30	-	-6	30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz	10	200	46.0	Quasi-peak	3		
	960MHz-1GHz		500	54.0	Quasi-peak	3		
	Above 1GHz		500	54.0	Average	3		
	Note: 15.35(b), frequency emissions is limit applicable to the expeak emission level radius.	20c equip	dB above the oment under t	maximum est. This p	permitted av	erage emission		











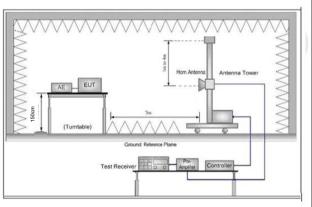


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the







Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	f. If the emission level of the EUT in peak mode was 10dB lower than the
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



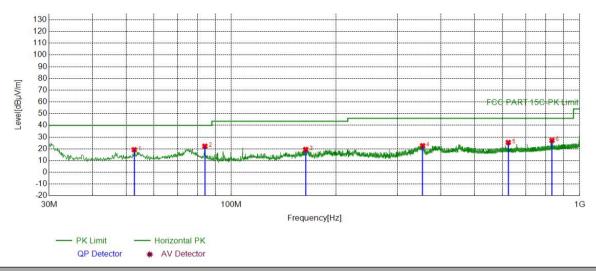


Page 19 of 46

Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode a was recorded in the report.

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	1Mbps	(24)	()



1	Suspected List									
1	NO	Freq.	Factor	Reading	Level	Limit	Margin	D =!4	D-Iit-	D -
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	52.7003	-17.53	36.80	19.27	40.00	20.73	PASS	Horizontal	PK
	2	84.0344	-21.58	43.84	22.26	40.00	17.74	PASS	Horizontal	PK
	3	163.582	-20.90	40.35	19.45	43.50	24.05	PASS	Horizontal	PK
	4	354.400	-13.95	36.64	22.69	46.00	23.31	PASS	Horizontal	PK
	5	624.087	-8.44	33.92	25.48	46.00	20.52	PASS	Horizontal	PK
	6	833.143	-6.01	33.24	27.23	46.00	18.77	PASS	Horizontal	PK









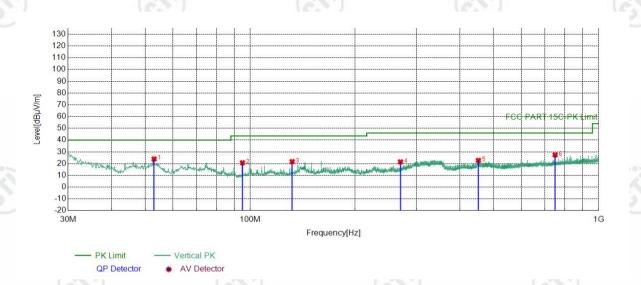






Page 20 of 46

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	1Mbps		



Suspect	Suspected List												
NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark				
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Nesuit	Folanty	Remark				
1	52.9913	-17.57	41.55	23.98	40.00	16.02	PASS	Vertical	PK				
2	94.9965	-19.27	40.00	20.73	43.50	22.77	PASS	Vertical	PK				
3	131.957	-21.66	43.37	21.71	43.50	21.79	PASS	Vertical	PK				
4	270.002	-16.15	37.62	21.47	46.00	24.53	PASS	Vertical	PK				
5	451.701	-11.70	34.42	22.72	46.00	23.28	PASS	Vertical	PK				
6	750.103	-7.00	34.42	27.42	46.00	18.58	PASS	Vertical	PK				

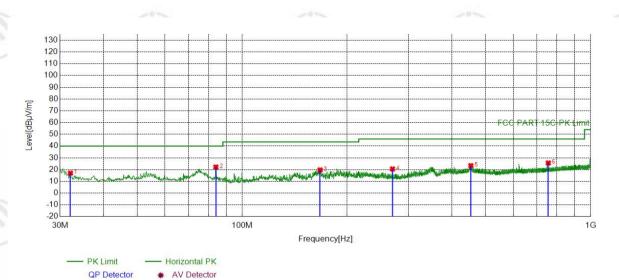






Page 21 of 46

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	2Mbps		(25)



Suspected List											
NO	Freq.	Factor	Reading	Level	Limit	Margin	D 14	Dalasita	D		
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark		
1	32.1342	-19.71	36.72	17.01	40.00	22.99	PASS	Horizontal	PK		
2	84.0344	-21.58	43.77	22.19	40.00	17.81	PASS	Horizontal	PK		
3	167.365	-20.64	40.38	19.74	43.50	23.76	PASS	Horizontal	PK		
4	270.002	-16.15	36.70	20.55	46.00	25.45	PASS	Horizontal	PK		
5	453.253	-11.67	35.00	23.33	46.00	22.67	PASS	Horizontal	PK		
6	756.020	-6.95	32.59	25.64	46.00	20.36	PASS	Horizontal	PK		

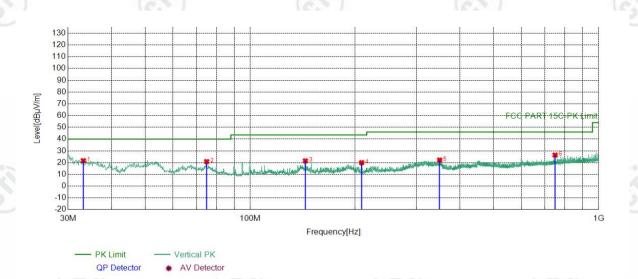






Page 22 of 46

Mode:	BLE GFSK Transmitting	Channel:	2440
Remark:	2Mbps		



Sı	Suspected List												
	NO	Freq.	Factor			Result	Polarity	Remark					
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Nesuit	Folality	Remark			
	1	33.2013	-19.67	41.33	21.66	40.00	18.34	PASS	Vertical	PK			
	2	75.0125	-21.68	42.54	20.86	40.00	19.14	PASS	Vertical	PK			
	3	143.986	-21.87	43.33	21.46	43.50	22.04	PASS	Vertical	PK			
	4	208.885	-17.63	37.62	19.99	43.50	23.51	PASS	Vertical	PK			
	5	349.744	-14.08	36.26	22.18	46.00	23.82	PASS	Vertical	PK			
	6	750.103	-7.00	33.42	26.42	46.00	19.58	PASS	Vertical	PK			







Radiated Spurious Emission above 1GHz:

Mode) :		BLE 1Mbps GF	SK Transmitti	ng	Channel:		2402 MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1280.0280	1.01	41.75	42.76	74.00	31.24	PASS	Horizontal	PK
2	2029.3029	4.65	40.18	44.83	74.00	29.17	PASS	Horizontal	PK
3	4264.0843	-17.51	59.44	41.93	74.00	32.07	PASS	Horizontal	PK
4	7206.2804	-11.83	55.43	43.60	74.00	30.40	PASS	Horizontal	PK
5	10929.5286	-6.31	52.40	46.09	74.00	27.91	PASS	Horizontal	PK
6	14559.7707	0.25	47.29	47.54	74.00	26.46	PASS	Horizontal	PK
7	1315.8316	1.11	42.62	43.73	74.00	30.27	PASS	Vertical	PK
8	2072.1072	4.79	38.24	43.03	74.00	30.97	PASS	Vertical	PK
9	4255.0837	-17.58	65.46	47.88	74.00	26.12	PASS	Vertical	PK
10	7206.2804	-11.83	56.99	45.16	74.00	28.84	PASS	Vertical	PK
11	10763.5176	-6.32	50.70	44.38	74.00	29.62	PASS	Vertical	PK
12	14474.7650	0.15	47.96	48.11	74.00	25.89	PASS	Vertical	PK
				Ā			- (

	Mode	:		BLE 1Mbps GF	SK Transmitti	ng	Channel:		2440 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1355.0355	1.24	41.19	42.43	74.00	31.57	PASS	Horizontal	PK
	2	2130.7131	4.55	47.01	51.56	74.00	22.44	PASS	Horizontal	PK
	3	4250.0833	-17.62	60.17	42.55	74.00	31.45	PASS	Horizontal	PK
	4	7320.2880	-11.65	54.86	43.21	74.00	30.79	PASS	Horizontal	PK
	5	10284.4856	-6.56	50.56	44.00	74.00	30.00	PASS	Horizontal	PK
	6	14346.7565	0.34	46.76	47.10	74.00	26.90	PASS	Horizontal	PK
	7	1133.0133	0.83	42.10	42.93	74.00	31.07	PASS	Vertical	PK
	8	1789.4789	3.24	41.28	44.52	74.00	29.48	PASS	Vertical	PK
	9	4257.0838	-17.57	65.21	47.64	74.00	26.36	PASS	Vertical	PK
À	10	7320.2880	-11.65	56.42	44.77	74.00	29.23	PASS	Vertical	PK
	11	9863.4576	-7.18	50.51	43.33	74.00	30.67	PASS	Vertical	PK
	12	13200.6800	-3.11	49.41	46.30	74.00	27.70	PASS	Vertical	PK

















Page 24 of 46

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	Mode	:	В	LE 1Mbps GF	SK Transmitti	ng	Channel:		2480 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
90	1	1485.2485	1.46	40.90	42.36	74.00	31.64	PASS	Horizontal	PK
Š	2	2126.1126	4.60	43.94	48.54	74.00	25.46	PASS	Horizontal	PK
	3	3834.0556	-19.19	56.93	37.74	74.00	36.26	PASS	Horizontal	PK
	4	7440.2960	-11.34	55.31	43.97	74.00	30.03	PASS	Horizontal	PK
	5	9896.4598	-7.08	51.02	43.94	74.00	30.06	PASS	Horizontal	PK
	6	15385.8257	0.36	48.32	48.68	74.00	25.32	PASS	Horizontal	PK
	7	1249.0249	0.93	41.41	42.34	74.00	31.66	PASS	Vertical	PK
	8	2127.1127	4.58	46.76	51.34	74.00	22.66	PASS	Vertical	PK
	9	4256.0837	-17.58	66.59	49.01	74.00	24.99	PASS	Vertical	PK
	10	7440.2960	-11.34	56.58	45.24	74.00	28.76	PASS	Vertical	PK
	11	9877.4585	-7.14	50.61	43.47	74.00	30.53	PASS	Vertical	PK
	12	14408.7606	1.09	47.13	48.22	74.00	25.78	PASS	Vertical	PK
						7.	7.707			

	Mode	:		BLE 2Mbps GF	SK Transmitti	ng	Channel:		2402 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1328.8329	1.16	42.74	43.90	74.00	30.10	PASS	Horizontal	PK
	2	2132.3132	4.53	47.36	51.89	74.00	22.11	PASS	Horizontal	PK
	3	3984.0656	-18.92	57.53	38.61	74.00	35.39	PASS	Horizontal	PK
Ġ	4	7206.2804	-11.83	56.14	44.31	74.00	29.69	PASS	Horizontal	PK
Γ	5	11104.5403	-6.21	51.55	45.34	74.00	28.66	PASS	Horizontal	PK
	6	16274.8850	1.52	48.93	50.45	74.00	23.55	PASS	Horizontal	PK
	7	1394.2394	1.37	41.47	42.84	74.00	31.16	PASS	Vertical	PK
	8	2131.9132	4.53	43.78	48.31	74.00	25.69	PASS	Vertical	PK
	9	4252.0835	-17.61	68.18	50.57	74.00	23.43	PASS	Vertical	PK
	10	7206.2804	-11.83	56.76	44.93	74.00	29.07	PASS	Vertical	PK
	11	10776.5184	-6.29	51.98	45.69	74.00	28.31	PASS	Vertical	PK
	12	14437.7625	0.68	47.56	48.24	74.00	25.76	PASS	Vertical	PK













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Mod	e:		BLE 2Mbps GF	SK Transmitti	ng	Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1286.4286	1.02	41.30	42.32	74.00	31.68	PASS	Horizontal	PK
2	1849.4849	3.65	40.79	44.44	74.00	29.56	PASS	Horizontal	PK
3	3985.0657	-18.92	60.35	41.43	74.00	32.57	PASS	Horizontal	PK
4	7320.2880	-11.65	54.98	43.33	74.00	30.67	PASS	Horizontal	PK
5	10772.5182	-6.30	51.33	45.03	74.00	28.97	PASS	Horizontal	PK
6	14393.7596	1.12	47.03	48.15	74.00	25.85	PASS	Horizontal	PK
7	1375.6376	1.31	41.17	42.48	74.00	31.52	PASS	Vertical	PK
8	2129.5130	4.56	46.73	51.29	74.00	22.71	PASS	Vertical	PK
9	4261.0841	-17.54	67.15	49.61	74.00	24.39	PASS	Vertical	PK
10	7320.2880	-11.65	57.02	45.37	74.00	28.63	PASS	Vertical	PK
11	12620.6414	-4.27	50.69	46.42	74.00	27.58	PASS	Vertical	PK
12	15351.8235	-0.03	48.83	48.80	74.00	25.20	PASS	Vertical	PK

Mode):		BLE 2Mbps GF	SK Transmitti	ng	Channel:		2480 MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Rema rk
1	1323.8324	1.14	41.43	42.57	74.00	31.43	PASS	Horizontal	PK
2	2119.9120	4.66	40.01	44.67	74.00	29.33	PASS	Horizontal	PK
3	3993.0662	-18.90	59.30	40.40	74.00	33.60	PASS	Horizontal	PK
4	7440.2960	-11.34	55.51	44.17	74.00	29.83	PASS	Horizontal	PK
5	10802.5202	-6.23	51.04	44.81	74.00	29.19	PASS	Horizontal	PK
6	13773.7182	-1.67	48.96	47.29	74.00	26.71	PASS	Horizontal	PK
7	1387.8388	1.35	40.87	42.22	74.00	31.78	PASS	Vertical	PK
8	2103.1103	4.85	40.45	45.30	74.00	28.70	PASS	Vertical	PK
9	4266.0844	-17.50	68.18	50.68	74.00	23.32	PASS	Vertical	PK
10	7439.2960	-11.34	55.78	44.44	74.00	29.56	PASS	Vertical	PK
11	10839.5226	-6.29	51.11	44.82	74.00	29.18	PASS	Vertical	PK
12	15135.8091	0.83	46.97	47.80	74.00	26.20	PASS	Vertical	PK

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Factor
 - Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.











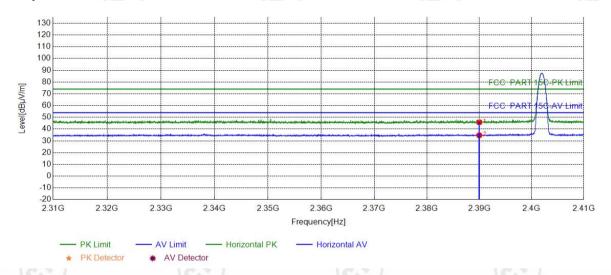




Page 26 of 46

Restricted bands:

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1Mbps		



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
1	110	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Nesuit	rolarity	rtomant
9	1	2390.0000	5.77	40.01	45.78	74.00	28.22	PASS	Horizontal	PK
	2	2390.0000	5.77	28.95	34.72	54.00	19.28	PASS	Horizontal	AV

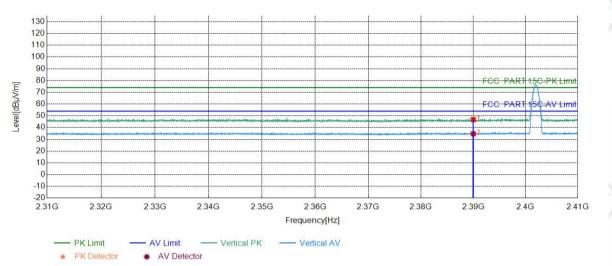






Page 27 of 46

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1Mbps		



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Folanty	Remark
9	1	2390.0000	5.77	40.99	46.76	74.00	27.24	PASS	Vertical	PK
	2	2390.0000	5.77	28.99	34.76	54.00	19.24	PASS	Vertical	AV

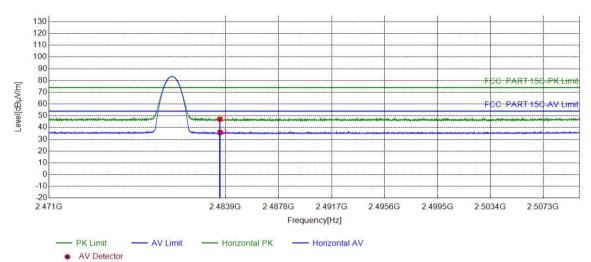




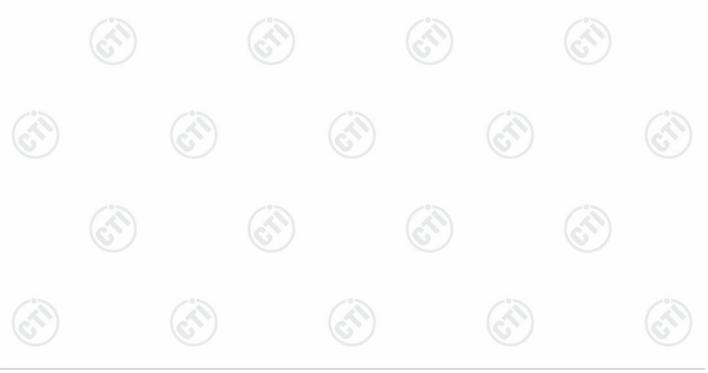


Page 28 of 46

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1Mbps		



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polatily	Nemark
9	1	2483.5000	6.57	40.64	47.21	74.00	26.79	PASS	Horizontal	PK
	2	2483.5000	6.57	29.28	35.85	54.00	18.15	PASS	Horizontal	AV

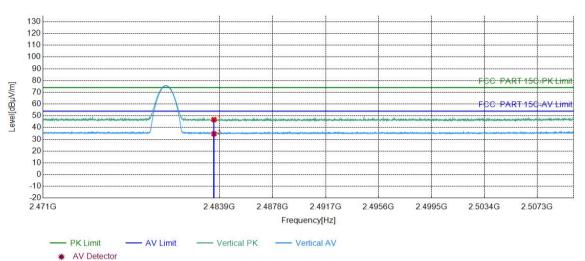






Page 29 of 46

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1Mbps		



Suspected List										
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
9	1	2483.5000	6.57	40.19	46.76	74.00	27.24	PASS	Vertical	PK
1	2	2483.5000	6.57	28.15	34.72	54.00	19.28	PASS	Vertical	AV

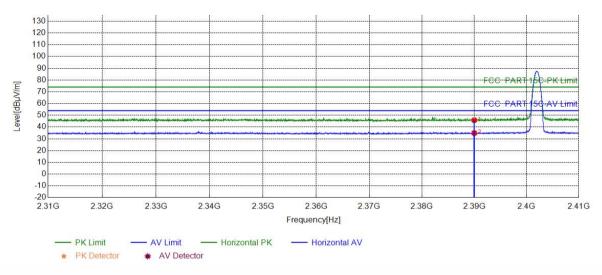




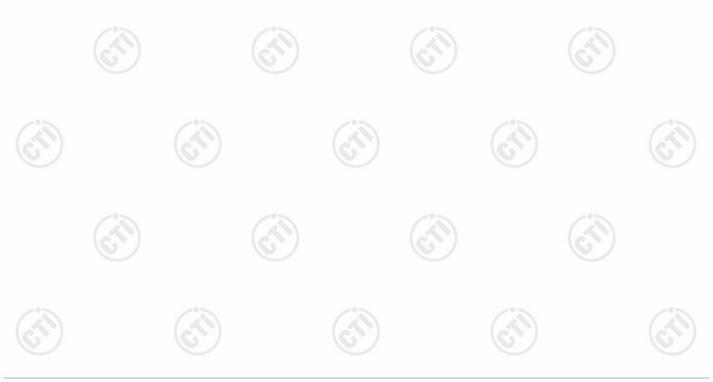


Page 30 of 46

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2Mbps		(25)



•	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Nesuit	Polarity	Remark
	1	2390.0000	5.77	40.04	45.81	74.00	28.19	PASS	Horizontal	PK
	2	2390.0000	5.77	29.15	34.92	54.00	19.08	PASS	Horizontal	AV

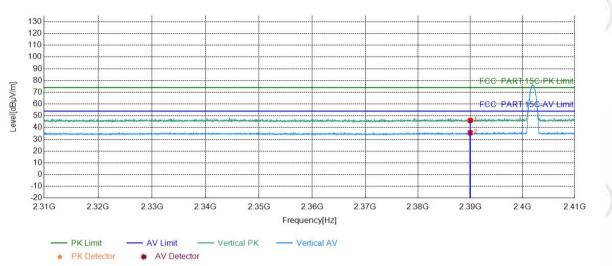






Page 31 of 46

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2Mbps		



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
9	1	2390.0000	5.77	40.33	46.10	74.00	27.90	PASS	Vertical	PK
9	2	2390.0000	5.77	29.80	35.57	54.00	18.43	PASS	Vertical	AV

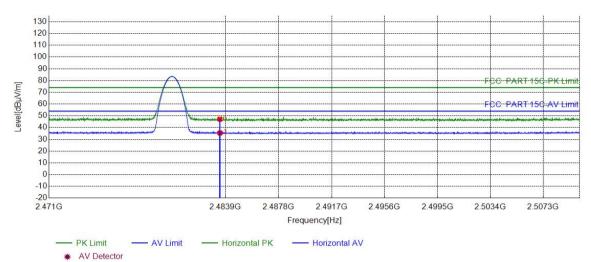






Page 32 of 46

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	2Mbps		



	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
9	1	2483.5000	6.57	40.58	47.15	74.00	26.85	PASS	Horizontal	PK
	2	2483.5000	6.57	28.84	35.41	54.00	18.59	PASS	Horizontal	AV

