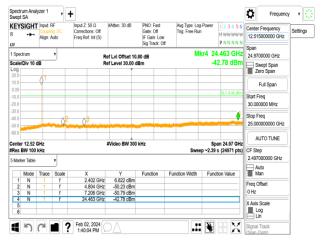
### Report No.: TERF2312003241E2 Page: 46 of 130



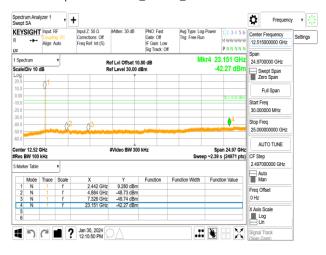
### Spurious Emission\_BLE 1M\_HighCH39-2480MHz

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Spectrum	1B	•		ef Lvi Offset 10 ef Level 30.00 d		Mkr4	23.923 GHz	24.01	700000 GHz		
og	یں 1		N.	el Level 30.00 d	DIII				wept Span ero Span		
0.0	Υ.								Full Span		
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Marker Table		'							uto		
Mode	Trace	Scale	Х	Y	Function	Function Width	Function Value	M 1	fan		
1 N	1	f	2.480 GHz	11.79 dBm				Freq (	Offset		
2 N		r i	4.960 GHz	-48.58 dBm				0 Hz			
3 N 4 N	+	1	7.440 GHz 23.923 GHz	-51.59 dBm -42.18 dBm				V HZ			
5			23.823 GHZ	-42.10 UDIII				X Axis	Scale		
6									.og		
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5	0		Jun 11, 2024	A A				Signa	Track		
	5		10:10:31 AM				T X X	100	Zoom)		

### Spurious Emission BLE 2M LowCH00-2402MHz



### Spurious Emission\_BLE 2M\_MidCH20-2442MHz



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SGS Taiwan Ltd

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Spurious Emission\_BLE 2M\_HighCH39-2480MHz



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# 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

## **Spurious Emission**

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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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.

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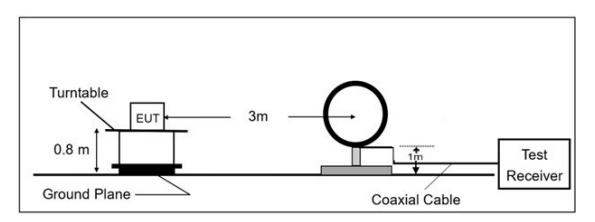
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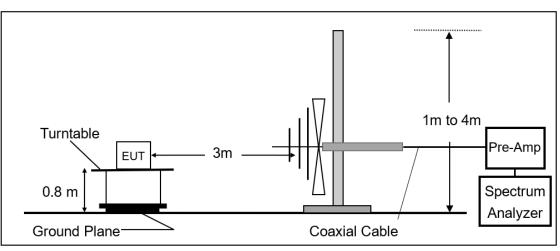


#### 11.1 **Test Setup**

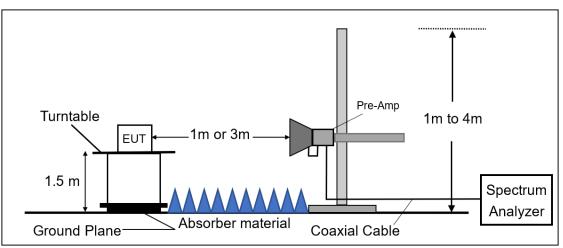
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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#### 11.2 **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.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 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.

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#### 11.3 **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 RA* = *Reading Amplitude* AF = Antenna Factor

CL = Cable Attenuation Factor (Cable Loss) AG = Amplifier Gain

The limit of the emission level is expressed in dBuV/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)

#### 11.4 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) & RSS-GEN §6.13.2 was not reported.

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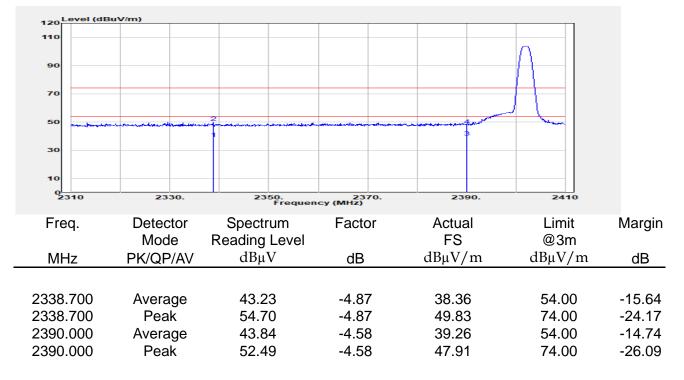
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#### **Radiated Band Edge Measurement Result** 11.4.1

## Port 1 (Dipole)

Report Number	:TERF2312003241E2	Test Site	:SAC D
Operation Mode	:BLE 1M	Test Date	:2024-01-31
Test Frequency	:2402 MHz	Temp./Humi.	:23.2℃/63%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Sam Huang



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Report Number Operation Moo Test Frequence Test Mode EUT Pol	de :BLE 1M	lz e	ד ד 4	Fest Date :20 Femp./Humi. :23 Antenna Pol. :H		
120 Level (dBu 110 90 70 50 30	V/m)				A	
0 2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2342.100 2342.100 2390.000 2390.000	Average Peak Average Peak	44.14 54.85 44.23 53.94	-4.86 -4.86 -4.58 -4.58	39.28 49.99 39.64 49.36	54.00 74.00 54.00 74.00	-14.72 -24.01 -14.36 -24.64

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Report Numbe Operation Mod Test Frequend Test Mode EUT Pol	de :BLE 1M	lz e		Test Date :2 Temp./Humi. :2 Antenna Pol. :1		
Level (dBu	V/m)					
120 Level (dBu						
90	+/+					
70						
50		Martin and a state of the state	Marine Cantor and an an	de telende a ser anna a ser anna a ser anna a	w. Northeaster. with more	
30						
10						
2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500	Average	46.05	-5.30	40.75	54.00	-13.25
2483.500	Peak	56.12	-5.30	50.81	74.00	-23.19
2483.775	Average	45.64	-5.31	40.33	54.00	-13.67
2483.775	Peak	55.89	-5.31	50.59	74.00	-23.41

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 1M	Z	ד ד 4	ēst Date :20 ēmp./Humi. :23 Antenna Pol. :He		
120 Level (dBu 110 90 70 50 30 10	V/m)					
2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.675 2483.675	Average Peak Average Peak	50.58 61.61 50.37 61.04	-5.30 -5.30 -5.31 -5.31	45.27 56.30 45.06 55.74	54.00 74.00 54.00 74.00	-8.73 -17.70 -8.94 -18.26

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Report Number Operation Moo Test Frequence Test Mode EUT Pol	de :BLE 2M	lz Ie		Test Date :: Temp./Humi. :: Antenna Pol. :'		
Level (dBu						
120 Level (dBu						
90						
70						
50 North Martin	and a state of the			and the second second second	<u>````</u>	
30						
10						
0 2310	2330.	2350. Frequen	2370.	2390.	2410	
Freq.	Detector	Spectrum	Factor	Actual FS	Limit @3m	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	г3 dBµV/m	dBµV/m	dB
		uDμ v	uВ	α <i>D</i> μ v / III	α <i>D</i> μ <b>v</b> / III	ub
0000 000	<b>A</b>	40.00	4.00	00.40	54.00	
2329.000 2329.000	Average Peak	43.33 54.54	-4.90 -4.90	38.43 49.64	54.00 74.00	-15.57 -24.36
2329.000		54.54 43.84	-4.90 -4.58	49.64 39.26	74.00 54.00	-24.30 -14.74
2390.000	Average Peak	43.84 52.73	-4.58 -4.58	39.20 48.15	54.00 74.00	-14.74
2390.000	FEAN	JZ.1 J	-4.50	40.13	74.00	-20.00

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 2M	z e	T T A	ēst Date :20 ēmp./Humi. :23 Antenna Pol. :He		
120 Level (dBu 110 90 70 50 30 10						
0 2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2386.500 2386.500 2390.000 2390.000	Average Peak Average Peak	44.10 54.63 44.61 53.43	-4.61 -4.61 -4.58 -4.58	39.50 50.03 40.02 48.85	54.00 74.00 54.00 74.00	-14.50 -23.97 -13.98 -25.15

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 2M	lz e		Test Date :: Temp./Humi. :: Antenna Pol. :'		
120 Level (dBt 110 90	IV/m)					
30						
10 0 2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.625 2483.625	Average Peak Average Peak	50.09 58.39 48.75 57.72	-5.30 -5.30 -5.31 -5.31	44.78 53.08 43.45 52.41	54.00 74.00 54.00 74.00	-9.22 -20.92 -10.55 -21.59

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Report Numbe Operation Moe Test Frequenc Test Mode EUT Pol	de :BLE 2M	lz je	-	Test Date :2 Temp./Humi. :2 Antenna Pol. :H		
Level (dBu	(Mina)					
120						
110						
90						
		$\mathbf{X}$				
70	, 					
50			and the state of t	and an an and a second second		
					and a second second	
30						
10						
2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
•	Mode	Reading Level		FS	@3m	Ū.
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500	Average	56.19	-5.30	50.89	54.00	-3.11
2483.500	Peak	65.04	-5.30	59.74	74.00	-14.26
2483.600	Average	54.97	-5.31	49.67	54.00	-4.33
2483.600	Peak	64.02	-5.31	58.71	74.00	-15.29
2-00.000	roun	07.02	0.01	00.71	14.00	10.20

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2410

Margin

dB

-15.35

-23.75

-15.16

-25.74

Limit

@3m

dBµV/m

54.00

74.00

54.00

74.00



Port 1 (monopole)

0 2310

Freq.

MHz

2384.000

2384.000

2390.000

2390.000

2330

Detector Mode

PK/QP/AV

Average

Peak

Average

Peak

Report Number	:TERF2312003241E2	Test Site :SAC D
Operation Mode	BLE 1M	Test Date :2024-01-08
Test Frequency	:2402 MHz	Temp./Humi. :22.9℃/51%
Test Mode	:Bandedge	Antenna Pol. :Vertical
EUT Pol	:E2 Plane	Engineer :Sam Huang
120 Level (dBuV/	m)	
110		
90		
70		
50 month wordsh		A B
30		

2350. 2370. Frequency (MHz)

Factor

dB

-4.62

-4.62

-4.58

-4.58

Spectrum

**Reading Level** 

dBµV

43.27

54.87

43.42

52.85

2390

Actual

FS

dBµV/m

38.65

50.25

38.84

48.26

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Report Numbe Operation Moo Test Frequenc Test Mode EUT Pol	le :BLE 1M	lz je	ד ד <i>ה</i>	Fest Date :2 Femp./Humi. :2 Antenna Pol. :H		
120 Level (dBu) 110 90 70 50 30	V/m)				A	
10 0 2310	2330.	2350. Frequen	2370.	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2357.000	Average	43.10	-4.79	38.31	54.00	-15.69
2357.000	Peak	55.13	-4.79	50.34	74.00	-23.66
2390.000	Average	43.81	-4.58	39.23	54.00	-14.77
2390.000	Peak	53.14	-4.58	48.55	74.00	-25.45

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 1M	lz Ie	-	Test Date :2 Temp./Humi. :2 Antenna Pol. :V		
120 Level (dBu 110 90 70	V/m)					
30		B		**************************************	ben and a start and a	
10 2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.650 2483.650	Average Peak Average Peak	45.39 55.77 45.19 55.77	-5.30 -5.30 -5.31 -5.31	40.08 50.46 39.89 50.46	54.00 74.00 54.00 74.00	-13.92 -23.54 -14.11 -23.54

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 1M	lz je	-	Test Date :2 Temp./Humi. :2 Antenna Pol. :F		
120 Level (dBu 110 90 70	iV/m)					
30			and the second sec			
10 0 2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.600 2483.600	Average Peak Average Peak	46.48 56.80 46.52 57.67	-5.30 -5.30 -5.31 -5.31	41.18 51.49 41.22 52.36	54.00 74.00 54.00 74.00	-12.82 -22.51 -12.78 -21.64

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Report Number Operation Moo Test Frequence Test Mode EUT Pol	de :BLE 2M	lz je	Т Т А	ēst Date :20 ēmp./Humi. :22 Antenna Pol. :V		
120 Level (dBu 110 90 70 50	V/m)	2 				
30						
0 2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2357.700 2357.700 2390.000	Average Peak Average	43.63 54.32 44.48	-4.79 -4.79 -4.58	38.84 49.53 39.90	54.00 74.00 54.00	-15.16 -24.47 -14.10
2390.000	Peak	53.04	-4.58	48.45	74.00	-25.55

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Report Number Operation Moo Test Frequence Test Mode EUT Pol	de :BLE 2M	lz e	- - /	Test Date :: Temp./Humi. :: Antenna Pol. :I		
120 Level (dBu 110 90 70 50	V/m)					
30						
0 2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2383.900 2383.900 2390.000 2390.000	Average Peak Average Peak	43.75 53.95 44.05 53.36	-4.62 -4.62 -4.58 -4.58	39.13 49.32 39.46 48.78	54.00 74.00 54.00 74.00	-14.87 -24.68 -14.54 -25.22

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 2M	lz Ie	ר ר ק	Test Date    :2      Temp./Humi.    :2      Antenna Pol.    :\		
120 Level (dBu	V/m)					
70						
30			an a	and a set of the set o		
10	2480.			2495.		
2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2482 500		48.00	-5.30	43.68	E4.00	-10.32
2483.500 2483.500	Average Peak	48.99 57.41	-5.30 -5.30	43.68 52.11	54.00 74.00	-10.32 -21.89
2483.600	Average	47.81	-5.30 -5.31	42.50	74.00 54.00	-21.89 -11.50
2483.600	Peak	56.37	-5.31	42.50 51.07	54.00 74.00	-11.50
2700.000	r can	50.57	-0.01	01.07	17.00	-22.00

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 2M	lz je	Ti Ti A	est Date :20 emp./Humi. :22 ntenna Pol. :Ho		
Level (dBu	- 1 (m)					
120						
110						
90	+/+					
70						
50		24				
50		3	******	the second day and the second day a	**************************************	
30						
10						
2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
1104.	Mode	Reading Level	1 dotor	FS	@3m	margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		αDμ	uD	abµ ( / III		uD
0.400 500	•	54.00	5.00	45.00	54.00	0.00
2483.500	Average	51.29	-5.30	45.98	54.00	-8.02
2483.500	Peak	58.97	-5.30	53.67	74.00	-20.33
2483.650	Average	49.59	-5.31	44.28	54.00	-9.72
2483.650	Peak	58.82	-5.31	53.51	74.00	-20.49

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Margin

dB

-15.41

-24.52

-15.28

-26.02

74.00

54.00

74.00



## Port 2 (Dipole)

2378.600

2390.000

2390.000

Peak

Average

Peak

Report Number	:TERF23	12003241E2	٦	Fest Site	:SAC D
Operation Mod	e :BLE 1M		٦	Fest Date	:2024-01-31
Test Frequency	/ :2402 M⊦	łz	Ţ	Гетр./Humi.	:23.2°C/63%
Test Mode	:Bandedg	ge	ŀ	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	e	E	Engineer	:Sam Huang
120 Level (dBuv	//m)				
110					
90					$-\Lambda$
70					
50			unative langet and the street	2	
30				1 3	
10 0 2310	2330.	2350.	2370.	2390.	2410
_		Frequen			1.1.14
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m
2378.600	Average	43.25	-4.66	38.59	54.00

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54.13

43.30

52.56

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-4.66

-4.58

-4.58

49.48

38.72

47.98

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.



Report Number Operation Moder Test Frequence Test Mode EUT Pol	de :BLE 1M	z	- - /	Test Date Temp./Humi. Antenna Pol.		
120 Level (dBu 110 90 70 50	IV/m)			2	A	
30				3		
10 0 2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2375.400 2375.400 2300.000	Average Peak	43.19 54.45 43.41	-4.68 -4.68 -4.58	38.52 49.77 38.83	54.00 74.00 54.00	-15.48 -24.23 -15.17
2390.000 2390.000	Average Peak	43.41 52.12	-4.58 -4.58	38.83 47.53	54.00 74.00	-15.17 -26.47

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120 Level (dBu 110 90	W/m)					
70						
50		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~	naverantine the same		
30						
10						
2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2355.000 2355.000	Average Peak	43.20 54.65	-4.80 -4.80	38.40 49.85	54.00 74.00	-15.60 -24.15
2390.000 2390.000	Average Peak	43.54 52.10	-4.58 -4.58	38.96 47.52	54.00 74.00	-15.04 -26.48
2000.000	i our	02.10		11.02	1 1.00	20.10

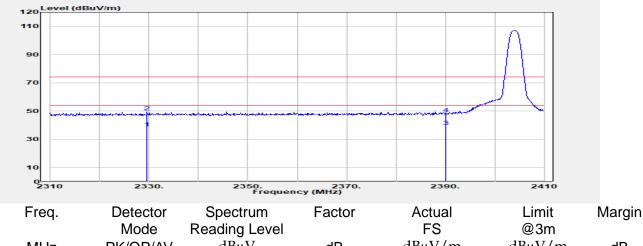
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Report Number	:TERF2312003242E2
Operation Mode	:BLE 1M
Test Frequency	:2404 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2024-01-31
Temp./Humi.	:23.2°C/63%
Antenna Pol.	:Horizontal
Engineer	:Sam Huang



MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2329.600	Average	43.10	-4.90	38.20	54.00	-15.80
2329.600	Peak	54.40	-4.90	49.50	74.00	-24.50
2390.000	Average	43.57	-4.58	38.98	54.00	-15.02
2390.000	Peak	52.69	-4.58	48.10	74.00	-25.90

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 1M	lz je	T T A	ēst Date :2 ēmp./Humi. :2 antenna Pol. :N		
120 Level (dBt 110 90 70 50	uV/m)					
30						
0 2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.625 2483.625	Average Peak Average Peak	48.52 59.41 48.38 59.27	-5.30 -5.30 -5.31 -5.31	43.22 54.11 43.08 53.96	54.00 74.00 54.00 74.00	-10.78 -19.89 -10.92 -20.04

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Report Numbe Operation Moe Test Frequenc Test Mode EUT Pol	de :BLE 1M	z e	-	Test Date : Temp./Humi. : Antenna Pol. :		
120 Level (dBu 110 90 70 50 30 10	V/m)	24				
2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.725 2483.725	Average Peak Average Peak	48.88 60.53 48.34 60.35	-5.30 -5.30 -5.31 -5.31	43.58 55.23 43.04 55.05	54.00 74.00 54.00 74.00	-10.42 -18.77 -10.96 -18.95

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 2M	lz je	T T A	est Date :2 emp./Humi. :2 ntenna Pol. :V		
Level (dBu	(Mina)					
120 Level (abt						
90						
70						
50	****	**************************************	2	unsuran france	- Land	
30						
10						
0 2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2373.800	Average	43.85	-4.69	39.16	54.00	-14.84
2373.800	Peak	54.59	-4.69	49.90	74.00	-24.10
2390.000	Average	43.97	-4.58	39.38	54.00	-14.62
2390.000	Peak	52.50	-4.58	47.92	74.00	-26.08

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Report Number Operation Moo Test Frequence Test Mode EUT Pol	de :BLE 2M	lz e	ר ר <i>ן</i>	Fest Date :2 Femp./Humi. :2 Antenna Pol. :H		
120 Level (dBu 110 90 70 50 30	V/m)					
0 2310	2330.	2350. Frequen	2370. cy (MHz)	2390.	2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2382.400 2382.400 2390.000 2390.000	Average Peak Average Peak	43.69 54.02 43.95 52.23	-4.63 -4.63 -4.58 -4.58	39.06 49.39 39.36 47.65	54.00 74.00 54.00 74.00	-14.94 -24.61 -14.64 -26.35

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 2M	z e	Te Te A	est Date :20 emp./Humi. :23 ntenna Pol. :Ve		
120 Level (dBu 110 90 70	W/m)					
50			an a			
10 0 2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.600 2483.600	Average Peak Average Peak	53.54 61.68 52.33 60.98	-5.30 -5.30 -5.31 -5.31	48.24 56.38 47.02 55.67	54.00 74.00 54.00 74.00	-5.76 -17.62 -6.98 -18.33

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 2M	2	T T A	ēst Date :20 ēmp./Humi. :23 Antenna Pol. :Ho		
120 Level (dBu 110 90 70	V/m)					
30				Hennen de vite sent de vertigine en en		
10 0 2475	2480.	2485. Frequen	2490. cy (MHz)	2495.	2500	
Freq.	Detector Mode	Spectrum	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	Reading Level dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.650 2483.650	Average Peak Average Peak	54.49 62.12 52.41 61.89	-5.30 -5.30 -5.31 -5.31	49.19 56.82 47.10 56.58	54.00 74.00 54.00 74.00	-4.81 -17.18 -6.90 -17.42

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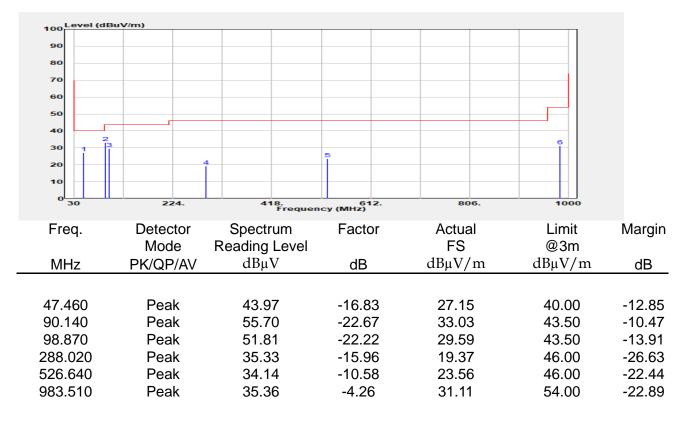
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### 11.4.2 **Radiated Spurious Emission**

## Port 1 (Dipole)

Report Number	:TERF2312003241E2	Test Site	:SAC D
Operation Mode	:BLE 1M	Test Date	:2024-01-31
Test Frequency	:2442 MHz	Temp./Humi.	:23.2 ℃/63%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Sam Huang



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Report Numbe	r :TERF231	2003241E2		Test Site	:SAC D	
Operation Mod	e :BLE 1M			Test Date	:2024-01-31	
Test Frequency	y :2442 MHz	2		Temp./Humi.	:23.2 °C/63%	
Test Mode	:Tx			Antenna Pol.	:Horizontal	
EUT Pol	:E2 Plane			Engineer	:Sam Huang	
100 Level (dBu)	//m)		1 1		<b>_</b>	
90						
80						
70 60						
50						
40						
30 1			4 5		6	
20	<u>з</u>					
10						
30	224.	418. Frequen	612. icy (MHz)	806.	1000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
47.460	Peak	43.10	-16.83	26.27	40.00	-13.73
88.200	Peak	45.21	-22.72	22.49	43.50	-21.01
159.010 518.880	Peak Peak	33.92 34.30	-16.29 -10.69	17.63 23.61	43.50 46.00	-25.87 -22.39
629.460	Peak	34.50 34.52	-10.89	26.16	46.00	-22.39 -19.84
963.140	Peak	35.27	-4.08	31.20	54.00	-22.80

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Report Numbe	er :TERF231	2003241E2	Т	est Site	:SAC D	
Operation Mod	de :BLE 2M		Т	est Date	:2024-01-31	
Test Frequenc	y :2442 MH	Z	Т	emp./Humi.	:23.2 ℃/63%	
Test Mode	:Tx		A	ntenna Pol.	:Vertical	
EUT Pol	:E2 Plane		E	ingineer	:Sam Huang	
100 Level (dBu	V/m)				<b>_]</b>	
90						
80						
70 60						
50						
40 2						
30 3 1			5		6	
10						
0 30	224.	418. Frequen	612. cy (MHz)	806.	1000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
48.430	Peak	41.56	-16.78	24.78	40.00	-15.22
89.170 98.870	Peak Peak	55.78 51.30	-22.76 -22.22	33.02 29.08	43.50 43.50	-10.48 -14.42
288.020	Peak	34.76	-22.22 -15.96	29.08 18.80	46.00	-14.42
635.280	Peak	34.21	-8.28	25.94	46.00	-20.06
914.640	Peak	35.40	-4.68	30.72	46.00	-15.28

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Report Numbe	er :TERF231	2003241E2	Te	est Site	:SAC D	
Operation Mod	de :BLE 2M		Te	est Date	:2024-06-06	
Test Frequenc	y :2442 MH	Z	Te	emp./Humi.	:23.2 ℃/63%	
Test Mode	:Tx		A	ntenna Pol.	:Horizontal	
EUT Pol	:E2 Plane		E	ngineer	:Sam Huang	
100 Level (dBu	V/m)		1 1			
90						
80						
70 60						
50						
40						
30 1 2			5		6	
20	3 4					
0 30	224.	118	612.	806.	1000	
		418. Frequen				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
	PN/QP/AV	ασμν	UD	αδμ ν / Πι	αδμν/Π	uБ
47.460	Peak	44.76	-16.83	27.94	40.00	-12.06
83.350	Peak	44.96	-22.31	22.66	40.00	-17.34
151.250	Peak	33.00	-15.92	17.08	43.50	-26.42
222.060	Peak	36.88	-19.47	17.41	46.00	-28.59
644.010	Peak	34.22	-8.28	25.94	46.00	-20.06
963.140	Peak	35.34	-4.08	31.27	54.00	-22.73

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 1M	Ιz		Test Date:20Temp./Humi.:23Antenna Pol.:Ve		
100 Level (dBu 90 80 70 60 50 40 30 20 10						
0L 1000	6100.		16300. cy (MHz)		26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.000 4804.000 7206.000 7206.000	Average Peak Average Peak	38.59 40.83 29.72 40.09	0.98 0.98 8.13 8.13	39.57 41.81 37.84 48.22	54.00 74.00 54.00 74.00	-14.43 -32.19 -16.16 -25.78

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Report Numbe	er :TERF23	12003241E2	-	Test Site :S	AC D	
Operation Mod	de :BLE 1M		-	Test Date :2	024-01-31	
Test Frequenc	y :2402 Mł	Ηz	-	Temp./Humi. :2	<b>3.2 ℃/63%</b>	
Test Mode	:Tx			Antenna Pol. :H	lorizontal	
EUT Pol	:E2 Plane	Э		Engineer :S	am Huang	
					Ū	
100 Level (dBu	V/m)					
90						
80						
70						
50	2 4					
40	Î Î					
30						
20						
10						
0L 1000	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.000	Average	42.00	0.98	42.99	54.00	-11.01
4804.000	Peak	46.93	0.98	47.91	74.00	-26.09
7206.000	Average	29.01	8.13	37.13	54.00	-16.87
7206.000	Peak	39.27	8.13	47.40	74.00	-26.60

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 1M	Ιz		Test Date :20 Temp./Humi. :23 Antenna Pol. :Ve		
100 Level (dBu 90 80 70 60 50 40 30 20 10						
1000	6100.		16300. cy (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level dBµV	Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Margin
MHz	PK/QP/AV	αδμν	dB	dBµV/m	dBµV/m	dB
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	30.55 40.45 29.14 39.15	0.97 0.97 9.03 9.03	31.52 41.42 38.17 48.18	54.00 74.00 54.00 74.00	-22.48 -32.58 -15.83 -25.82

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Report Number Operation Moder Test Frequence Test Mode EUT Pol	de :BLE 1M	Ηz		Test Date :20 Temp./Humi. :23 Antenna Pol. :Ho		
100 Level (dBu 90 80 70 60 50 40 30 20 10 1000	1V/m)	11200.	16300.	21400.	26500	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	40.78 46.16 29.05 39.06	0.97 0.97 9.03 9.03	41.75 47.13 38.08 48.08	54.00 74.00 54.00 74.00	-12.25 -26.87 -15.92 -25.92

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	le :BLE 1M	łz		Test Date:2Temp./Humi.:2Antenna Pol.:V		
100 Level (dBu 90 80 70 60 50 40 30 20 10						
1000	6100.		16300 су (MHz)		26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
4960.000 4960.000 7440.000 7440.000	Average Peak Average Peak	31.01 40.74 28.65 39.25	1.87 1.87 9.98 9.98	32.87 42.60 38.63 49.23	54.00 74.00 54.00 74.00	-21.13 -31.40 -15.37 -24.77

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 1M	Ηz		•	Date :2 ./Humi. :2 ina Pol. :1	SAC D 2024-01-31 23.2 ℃/63% Horizontal Sam Huang	
100 Level (dBu 90 80 70 60 50 40 30 20 10 1000							
	6100.		1630 cy (MHz)		21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor		Actual FS	Limit @3m dBuV/m	Margin
MHz	PK/QP/AV	dBμV	dB	ŭ	lBμV/m	dBµV/m	dB
4960.000 4960.000 7440.000 7440.000	Average Peak Average Peak	38.47 45.20 28.45 38.62	1.87 1.87 9.98 9.98		40.33 47.06 38.43 48.60	54.00 74.00 54.00 74.00	-13.67 -26.94 -15.57 -25.40
7440.000	r can	30.02	9.90		<del>4</del> 0.00	74.00	-20.40

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ηz		Test Date :20 Temp./Humi. :23 Antenna Pol. :Ve		
100 Level (dBu 90 80 70 60 50 40 30 20 10 000	1V/m)		16300.		26500	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4804.000 4804.000 7206.000 7206.000	Average Peak Average Peak	31.53 40.46 29.99 39.15	0.98 0.98 8.13 8.13	32.51 41.44 38.12 47.27	54.00 74.00 54.00 74.00	-21.49 -32.56 -15.88 -26.73

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Report Numbe Operation Moe Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ηz	ר ר <i>ו</i>	Fest Date :20 Femp./Humi. :23 Antenna Pol. :He		
100 Level (dBu 90 80 70 60 50 40 30 20 10						
1000	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m dBuV/m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.000 4804.000 7206.000 7206.000	Average Peak Average Peak	39.48 46.22 29.51 39.18	0.98 0.98 8.13 8.13	40.46 47.21 37.64 47.31	54.00 74.00 54.00 74.00	-13.54 -26.79 -16.36 -26.69

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Report Numbe Operation Moe Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ηz		Test Date :: Temp./Humi. :: Antenna Pol. :		
100 Level (dBu 90 80 70 60 50 40 30 20 10 1000						
1000	6100.		16300. cy (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	31.01 40.73 29.74 39.49	0.97 0.97 9.03 9.03	31.98 41.70 38.77 48.52	54.00 74.00 54.00 74.00	-22.02 -32.30 -15.23 -25.48
1 320.000	I Can	53.43	3.00	40.52	74.00	-20.40

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Report Number Operation Moo Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ιz	ר ר <i>ן</i>	Fest Date :20 Femp./Humi. :23 Antenna Pol. :Ho		
100 Level (dBu 90 80 70 60 50 40 30 20 10 1000	V/m)					
1000	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	38.69 45.32 29.30 39.16	0.97 0.97 9.03 9.03	39.66 46.29 38.33 48.19	54.00 74.00 54.00 74.00	-14.34 -27.71 -15.67 -25.81

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ηz	-	Test Date :2 Temp./Humi. :2 Antenna Pol. :V		
100 Level (dBu 90 80 70 60 50 40 30 20 10	IV/m) 					
1000	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.000 4960.000 7440.000	Average Peak Average	31.28 41.07 29.23	1.87 1.87 9.98	33.15 42.93 39.21	54.00 74.00 54.00	-20.85 -31.07 -14.79
7440.000	Peak	39.54	9.98	49.52	74.00	-24.48

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Report Number Operation Moo Test Frequence Test Mode EUT Pol	de :BLE 2M	Ηz		Test Date :20 Temp./Humi. :23 Antenna Pol. :Ho		
100 Level (dBu 90 80 70 60 50 40 30 20 10	V/m)					
1000	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.000 4960.000 7440.000 7440.000	Average Peak Average Peak	38.62 44.52 29.64 38.39	1.87 1.87 9.98 9.98	40.48 46.39 39.63 48.37	54.00 74.00 54.00 74.00	-13.52 -27.61 -14.37 -25.63

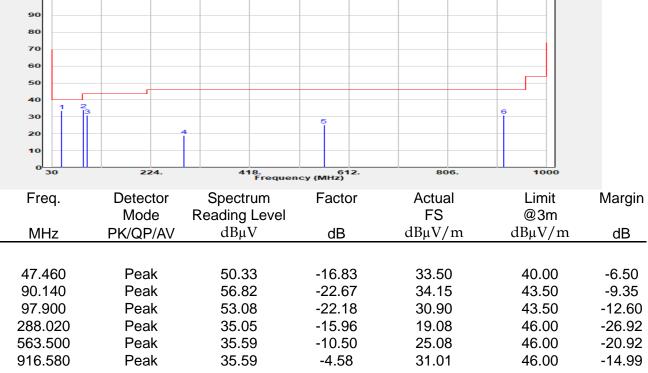
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Port 1 (monopole)

Report Number	:TERF2312003241E2	Test Site	:SAC D
Operation Mode	:BLE 1M	Test Date	:2024-01-08
Test Frequency	:2442 MHz	Temp./Humi.	:22.9°C/51%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Sam Huang
100 Level (dBuV/r	n)		



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Report Numbe	r :TERF231	2003241E2		Test Site	:SAC D	
Operation Mod	le :BLE 1M			Test Date	:2024-01-08	
Test Frequency	y :2442 MH	Z		Temp./Humi.	:22.9°C/51%	
Test Mode	:Tx			Antenna Pol.	:Horizontal	
EUT Pol	:E2 Plane			Engineer	:Sam Huang	
100 Level (dBu)	//m)					
90						
80						
70						
50						
40	ſ					
30 1			5		6	
20 2	3 .	4	T T			
10						
30	224.	418. Frequen	612. icy (MHz)	806.	1000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
47.460	Peak	47.24	-16.83	30.42	40.00	-9.58
90.140	Peak	44.04	-22.67	21.37	43.50	-22.13
147.370	Peak	32.79	-16.03	16.76	43.50	-26.74
305.480	Peak	33.34	-15.66	17.68	46.00	-28.32
537.310 924.340	Peak Peak	34.20 34.88	-10.62 -4.31	23.58 30.56	46.00 46.00	-22.42 -15.44
324.040	r can	54.00	-4.51	50.50	40.00	-13.44

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Report Numbe	r :TERF231	2003241E2	Te	est Site	:SAC D	
Operation Mod	de :BLE 2M		Te	est Date	:2024-01-08	
Test Frequenc	y :2442 MH	Z	Te	emp./Humi.	: <b>22.9°</b> ℃/ <b>51%</b>	
Test Mode	:Tx		А	ntenna Pol.	:Vertical	
EUT Pol	:E2 Plane		E	ngineer	:Sam Huang	
100 Level (dBu	V/m)				<b></b>	
90						
80						
70 60						
50						
40 2						
30 1 3			5		6	
20	4					
10						
30	224.	418. Frequen	612. cy (MHz)	806.	1000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
N 41 1	Mode	Reading Level	10	FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	<b>_</b> .			<b>a- -</b> <i>i</i>	10.00	
47.460	Peak	44.37	-16.83	27.54	40.00	-12.46
89.170 98.870	Peak Peak	56.43 50.31	-22.76 -22.22	33.68 28.09	43.50 43.50	-9.82 -15.41
288.020	Peak	34.81	-15.96	18.85	46.00	-27.15
642.070	Peak	34.82	-8.28	26.54	46.00	-19.46
964.110	Peak	35.11	-4.12	30.99	54.00	-23.01

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Report Numbe	r :TERF231	2003241E2		Test Site	:SAC D	
Operation Mod	le :BLE 2M			Test Date	:2024-01-08	
Test Frequency	y :2442 MHz	2		Temp./Humi.	:22.9℃/51%	
Test Mode	:Tx			Antenna Pol.	:Horizontal	
EUT Pol	:E2 Plane			Engineer	:Sam Huang	
100 Level (dBu)	V/m)					
90						
80						
70 60						
50						
40						
30 1 2		4	5		6	
20	3					
0 30	224.	419	612.	806.	1000	
		418. Frequen				
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode I PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
	PK/QP/AV	αυμν	üВ	αδμν/ Πι	α <i>D</i> μ v / III	uв
47.460	Peak	43.51	-16.83	26.68	40.00	-13.32
83.350	Peak	45.16	-10.03	20.00	40.00	-13.32
151.250	Peak	33.77	-15.92	17.85	43.50	-25.65
444.190	Peak	38.33	-11.96	26.37	46.00	-19.63
617.820	Peak	34.70	-8.15	26.55	46.00	-19.45
955.380	Peak	35.41	-4.04	31.37	46.00	-14.63

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 1M	Ηz		Test Date :20 Temp./Humi. :22 Antenna Pol. :Ve		
100 Level (dBu 90 80 70 60 50 40 30 20 10 1000	6100.		16300.			
Freq.	Detector Mode	Spectrum	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	Reading Level dBµV	dB	dBµV/m	dBµV/m	dB
4804.000 4804.000 7206.000 7206.000	Average Peak Average Peak	35.85 44.46 29.22 39.00	0.98 0.98 8.13 8.13	36.83 45.45 37.35 47.13	54.00 74.00 54.00 74.00	-17.17 -28.55 -16.65 -26.87

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Report Numbe Operation Moe Test Frequenc Test Mode EUT Pol	de :BLE 1M	Ηz		Test Date:20Temp./Humi.:22Antenna Pol.:Ho		
100 Level (dBu 90 80 70 60 50 40 30 20 10	V/m)					
1000	6100.	11200. Frequen	16300 cy (MHz)	. 21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.000 4804.000 7206.000 7206.000	Average Peak Average Peak	32.34 40.72 29.20 38.02	0.98 0.98 8.13 8.13	33.32 41.71 37.33 46.14	54.00 74.00 54.00 74.00	-20.68 -32.29 -16.67 -27.86
1200.000	roun	00.02	0.10	-0.1-	74.00	21.00

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 1M	Ιz		Test Date :20 Temp./Humi. :22 Antenna Pol. :Ve		
100 Level (dBu 90 80 70 60 50 40 30 20 10 1000	V/m)		16300.		26500	
		-	cy (MHz)	• · · ·	••••	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBμV/m	Limit @3m dBµV/m	Margin dB
1011 12		αυμγ	UD			<u>ub</u>
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	33.50 42.61 28.84 39.32	0.97 0.97 9.03 9.03	34.47 43.58 37.87 48.35	54.00 74.00 54.00 74.00	-19.53 -30.42 -16.13 -25.65

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 1M	Ηz		Test Date :20 Temp./Humi. :22 Antenna Pol. :He		
100 Level (dBa 90 80 70 60 50 40 30 20 10 0 000						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	33.87 42.52 29.23 38.82	0.97 0.97 9.03 9.03	34.84 43.49 38.26 47.85	54.00 74.00 54.00 74.00	-19.16 -30.51 -15.74 -26.15

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 1M	Ηz		Test Date :: Temp./Humi. :: Antenna Pol. :		
100 Level (dBu 90 80 70 60 50 40 30 20 10	IV/m)					
1000	6100.	11200. Frequen	16300. cy (MHz)	. 21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.000 4960.000 7440.000	Average Peak Average	32.39 41.09 28.15	1.87 1.87 9.98	34.25 42.95 38.13	54.00 74.00 54.00	-19.75 -31.05 -15.87
7440.000	Peak	37.92	9.98	47.90	74.00	-26.10

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	e :BLE 1M	łz		Test Date:20Temp./Humi.:22Antenna Pol.:He		
100 Level (dBuv 90 80 70 60 50 40 30 20 10 0						
	6100.		16300. cy (MHz)		26500	
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBμV/m	Limit @3m dBµV/m	Margin dB
					<i>abµ</i> , <i>j</i> iii	
4960.000 4960.000 7440.000 7440.000	Average Peak Average Peak	31.15 39.79 28.07 37.24	1.87 1.87 9.98 9.98	33.02 41.66 38.05 47.23	54.00 74.00 54.00 74.00	-20.98 -32.34 -15.95 -26.77

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Report Number	:TERF23	12003241E2		Test Site :S	AC D	
Operation Mode	BLE 2M			Test Date :20	024-01-08	
Test Frequency	:2402 MF	łz		Temp./Humi. :22	2.9℃/51%	
Test Mode	:Tx			Antenna Pol. :Ve	ertical	
EUT Pol	:E2 Plane	Э		Engineer :S	am Huang	
				5	5	
100 Level (dBuV/	m)		1			
90						
80						
70 60						
50	4					
40	2					
30						
10						
0	6100.	11200. Frequen	16300 cy (MHz)	. 21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
4804.000	Average	30.46	0.98	31.44	54.00	-22.56
4804.000	Average Peak	40.52	0.98	41.51	54.00 74.00	-22.50
7206.000	Average	29.08	8.13	37.21	54.00	-16.79
7206.000	Peak	39.40	8.13	47.52	74.00	-26.48

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ηz		Test Date:2Temp./Humi.:2Antenna Pol.:H		
100 Level (dBt 90 80 70	IV/m)					
60 50 40	2 4					
30 20 10 0 1000	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m dBuV/m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
4804.000 4804.000 7206.000	Average Peak Average	32.65 42.12 29.28	0.98 0.98 8.13	33.63 43.10 37.41	54.00 74.00 54.00	-20.37 -30.90 -16.59
7206.000	Peak	39.30	8.13	47.43	74.00	-26.57

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Report Numbe Operation Mo Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ηz		Test Date :20 Temp./Humi. :22 Antenna Pol. :Ve		
100 Level (dBr 90 80 70 60 50 40 30 20 10 0 000	uV/m)		16300.			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	30.32 39.89 29.18 38.52	0.97 0.97 9.03 9.03	31.29 40.86 38.21 47.55	54.00 74.00 54.00 74.00	-22.71 -33.14 -15.79 -26.45

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Report Numbe Operation Mod Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ιz	ר ר א	Test Date :20 Temp./Humi. :22 Antenna Pol. :Ho		
100 Level (dBu 90 80 70 60 50 40 30 20 10 0 000						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBμV/m	dB
4884.000 4884.000 7326.000 7326.000	Average Peak Average Peak	31.26 39.68 29.07 38.57	0.97 0.97 9.03 9.03	32.23 40.65 38.10 47.60	54.00 74.00 54.00 74.00	-21.77 -33.35 -15.90 -26.40

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Report Number Operation Mod Test Frequence Test Mode EUT Pol	de :BLE 2M	Ιz		Test Date:20Temp./Humi.:22Antenna Pol.:Vent		
Level (dBu	V/m)					
100						
90						
70						
60						
50	4					
40	2 3					
30						
20						
10						
1000	6100.	11200. Frequen	16300 cy (MHz)	. 21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
- 1	Mode	Reading Level		FS	@3m	5
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.000	Average	30.52	1.87	32.39	54.00	-21.61
4960.000	Peak	39.73	1.87	41.59	74.00	-32.41
7440.000	Average	29.15	9.98	39.13	54.00	-14.87
7440.000	Peak	37.59	9.98	47.57	74.00	-26.43

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Report Numbe Operation Moe Test Frequenc Test Mode EUT Pol	de :BLE 2M	Ηz		Test Date :2 Temp./Humi. :2 Antenna Pol. :H		
100 Level (dBu 90 80 70 60 50 40 30 20 10	V/m)					
1000	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.000 4960.000 7440.000	Average Peak Average	32.17 40.19 28.89	1.87 1.87 9.98	34.04 42.05 38.87	54.00 74.00 54.00	-19.96 -31.95 -15.13
7440.000	Peak	38.12	9.98	48.10	74.00	-25.90

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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## Report No.: TERF2312003241E2 Page: 109 of 130

Margin

dB



## Port 2 (Dipole)

Oper Test	ration Mod Frequency Mode	r :TERF23 e :BLE 1M / :2442 MH :Tx :E2 Plane			Test Tem Ante	enna Po	i. :24. ol. :Ver	24-01-30 3 ℃/55%	]
1	00 Level (dBuV	//m)							
	90								
4	80								
	70								
	60								
4	50								
	40 2								
:	30 3				5			6	
1	20	4	<u>4</u>						
	10								
	30	224.	418. Freque	612 ncy (MHz)	2.	80	6.	1000	
I	Freq.	Detector	Spectrum	Factor	r	Actua	l	Limit	
		Mode	Reading Level			FS		@3m	
	MHz	PK/QP/AV	dBµV	dB		dBµV/	m	dBµV/m	
		<b>_</b>							
	7 400	Deals	11 00	40.00		04 70	<b>`</b>	10 00	

47 400	<b>D</b> 1	44.00	40.00	o 4 <b>T</b> o	40.00	4 - 04
47.460	Peak	41.62	-16.83	24.79	40.00	-15.21
90.140	Peak	56.41	-22.67	33.74	43.50	-9.76
98.870	Peak	52.00	-22.22	29.78	43.50	-13.72
288.020	Peak	35.22	-15.96	19.26	46.00	-26.74
692.510	Peak	34.87	-8.02	26.85	46.00	-19.15
947.620	Peak	35.08	-4.12	30.96	46.00	-15.04

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Report Numbe	r :TERF231	2003241E2		Test Site	:SAC D	
Operation Mod	de :BLE 1M			Test Date	:2024-01-30	
Test Frequenc	y :2442 MH	Z		Temp./Humi.	:24.3 ℃/55%	
Test Mode	:Tx			Antenna Pol.	:Horizontal	
EUT Pol	:E2 Plane			Engineer	:Howard Huang	
100 Level (dBu	V/m)		1 1			
90						
80						
70 60						
50						
40						
30			4	5	6	
20	3					
0 30	224.	419	612	806.	1000	
			612. cy (MHz)			
Freq.	Detector	Spectrum	Factor	Actual FS	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	г5 dBµV/m	@3m dBµV/m	dB
		αυμν	uD	α <i>b</i> μ <i>v</i> / III	α <i>D</i> μ γ / III	
47.460	Peak	42.23	-16.83	25.40	40.00	-14.60
84.320	Peak	46.87	-22.47	24.40	40.00	-15.60
179.380	Peak	34.65	-17.94	16.71	43.50	-26.79
512.090	Peak	34.78	-10.62	24.16	46.00	-21.84
644.980	Peak	34.21	-8.28	25.93	46.00	-20.07
961.200	Peak	35.26	-3.99	31.27	54.00	-22.73

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Report Number	:TERF231	2003241E2		Test Site	:SAC D	
Operation Mode	e:BLE 2M			Test Date	:2024-01-30	
Test Frequency	:2442 MHz	Z		Temp./Humi.	:24.3 ℃/55%	
Test Mode	:Tx			Antenna Pol.	:Vertical	
EUT Pol	:E2 Plane			Engineer	:Howard Huang	
100 Level (dBuV	/m)					
90						
80 70						
60						
50	ſ					
40 1 30			5		6	
20	3 4					
10						
0 30	224.	418. Frequen	612. cy (MHz)	806.	1000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
90.140	Peak	56.04	-22.67	33.37	43.50	-10.13
97.900	Peak	52.19	-22.18	30.02	43.50	-13.48
159.010	Peak	34.05	-16.29	17.76	43.50	-25.74
288.020 631.400	Peak Peak	34.83 34.54	-15.96 -8.34	18.87 26.19	46.00 46.00	-27.13 -19.81
921.430	Peak	35.83	-0.34 -4.37	31.46	46.00	-19.01
0211100		00.00		01110	10100	1 1.0 1

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Report Numbe Operation Mod		2003241E2		Test Site Test Date	:SAC D :2024-01-30	
Test Frequency	y :2442 MHz	Z		Temp./Humi.	:24.3 ℃/55%	
Test Mode	:Tx			Antenna Pol.	:Horizontal	
EUT Pol	:E2 Plane			Engineer	:Howard Huang	
100  Level (dBu)    90  80    70  60    50	//m)					
0 30	224.	418. Frequen	612. cy (MHz)	806.	1000	
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
47.460 83.350 146.400 395.690 652.740 938.890	Peak Peak Peak Peak Peak Peak	45.39 47.02 33.08 34.72 34.47 34.86	-16.83 -22.31 -16.18 -13.39 -8.37 -3.96	28.57 24.72 16.90 21.33 26.10 30.90	40.00 40.00 43.50 46.00 46.00 46.00	-11.43 -15.28 -26.60 -24.67 -19.90 -15.10

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Report Numbe	Report Number :TERF2312003241E2		-	Test Site	:SAC D	
Operation Mod	le :BLE 1M		-	Test Date	:2024-01-30	
Test Frequency	y :2402 Mł	Ηz	-	Temp./Humi.	:24.3 °C/55%	
Test Mode	:Tx			Antenna Pol.	:Vertical	
EUT Pol	:E2 Plan	е		Engineer	:Sam Huang	
				0	5	
100 Level (dBu)	//m)	1	1			
90						
80						
70						
50	2					
40						
30						
20						
10						
0	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.000	Average	43.72	0.98	44.70	54.00	-9.30
4804.000	Peak	48.55	0.98	49.53	74.00	-24.47
7206.000	Average	29.32	8.13	37.45	54.00	-16.55
7206.000	Peak	39.48	8.13	47.61	74.00	-26.39

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Report Numbe	Report Number :TERF2312003241E2		Т	est Site :SA	AC D	
Operation Mod	de :BLE 1M		Т	est Date :20	24-01-30	
Test Frequenc	y :2402 M⊦	Ηz	Т	emp./Humi. :24	.3 ℃/55%	
Test Mode	:Tx		А	ntenna Pol. :Ho	orizontal	
EUT Pol	:E2 Plane	Э	E	ngineer :Sa	m Huang	
				0	Ū	
100 Level (dBu	V/m)					
90						
80						
70 60						
50	2 4					
40						
30						
20						
0	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
1104.	Mode	Reading Level	1 40101	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.000	Average	49.36	0.98	50.35	54.00	-3.65
4804.000 7206.000	Peak	52.71 28.97	0.98 8.13	53.70 37.10	74.00 54.00	-20.30 -16.90
7206.000	Average Peak	39.48	8.13 8.13	47.61	54.00 74.00	-16.90

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Report Number	:TERF23	12003241E2		Test Site :SA	AC D	
Operation Mode	e :BLE 1M			Test Date :20	24-01-30	
Test Frequency	2442 M⊦	łz		Temp./Humi. :24	.3 ℃/55%	
Test Mode	:Tx			Antenna Pol. :Ve	ertical	
EUT Pol	:E2 Plane	9		Engineer :Sa	am Huang	
				5	5	
100 Level (dBuV	//m)				1	
90						
80						
70 60						
50	2 4 1					
40						
30						
10						
01000	6100.	11200. Frequen	16300. cy (MHz)	. 21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
4004 000	A		0.07	45 44	54.00	0.00
4884.000 4884.000	Average Peak	44.14 48.61	0.97 0.97	45.11 49.58	54.00 74.00	-8.89 -24.42
7326.000	Average	29.07	9.03	38.10	54.00	-15.90
7326.000	Peak	39.58	9.03	48.61	74.00	-25.39

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Report Numbe	Report Number :TERF2312003241E2			Test Site :S	SAC D	
Operation Mod	le :BLE 1M			Test Date :2	2024-01-30	
Test Frequency	y :2442 M⊦	Ηz		Temp./Humi. :2	24.3 ℃/55%	
Test Mode	:Tx			Antenna Pol. :I	Iorizontal	
EUT Pol	:E2 Plane	Э		Engineer :	Sam Huang	
				0	0	
100 Level (dBu)	V/m)					
90						
80						
70 60						
50	2 4					
40						
30						
20						
10						
0 1000	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
4884.000	Average	49.96	0.97	50.93	54.00	-3.07
4884.000 7326.000	Peak Average	53.09 28.88	0.97 9.03	54.06 37.91	74.00 54.00	-19.94 -16.09
7326.000	Peak	38.82	9.03	47.84	54.00 74.00	-16.09
1020.000	i cuit	00.02	0.00	70.17	17.00	20.10

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Report Number :TERF2312003241E2			-	Test Site :	SAC D	
Operation Mode :BLE 1M			-	Test Date :2024-01-30		
Test Frequency :2480 MHz			-	Temp./Humi. :24.3 ℃/55%		
Test Mode	:Tx			Antenna Pol. :Vertical		
EUT Pol	:E2 Plane	Э		Engineer :		
				5	0	
100 Level (dBuV/m)						
90						
80						
70 60						
50	2 4					
40	- 1 - 3					
30						
20						
10						
0 1000 6100. 11200. 16300. 21400. 26500 Frequency (MHz)						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		~~~~			- / 00	
4960.000	Average	39.35	1.87	41.22	54.00	-12.78
4960.000	Peak	45.75	1.87	47.62	74.00	-26.38
7440.000 7440.000	Average Peak	28.87 40.20	9.98 9.98	38.86 50.18	54.00 74.00	-15.14 -23.82
1440.000	rean	40.20	9.90	50.10	74.00	-23.02

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Report Numbe	r :TERF23	12003241E2	-	Test Site :SA	C D	
Operation Mod	le :BLE 1M		-	Test Date :20	24-01-30	
Test Frequenc	y :2480 M⊦	Ηz	-	Temp./Humi. :24	.3 ℃/55%	
Test Mode	:Tx			Antenna Pol. :Ho	orizontal	
EUT Pol	:E2 Plane	Э		Engineer :Sa	m Huang	
				0	Ū	
100 Level (dBu	V/m)					
90						
80						
70 60						
50	2 4 1 I					
40	3					
30						
10						
0	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
1000 000	A	44.00	4.07	10.10	54.00	7.04
4960.000 4960.000	Average Peak	44.33 48.59	1.87 1.87	46.19 50.46	54.00 74.00	-7.81 -23.54
7440.000	Average	28.46	9.98	38.44	54.00	-15.56
7440.000	Peak	39.13	9.98	49.11	74.00	-24.89

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Report Numbe	er :TERF23	12003241E2	Т	Fest Site :S	SAC D	
Operation Mod	de :BLE 2M		Т	Test Date :2	2024-01-30	
Test Frequenc	y :2402 Mł	Ηz	Т	[emp./Humi. :2	24.3 ℃/55%	
Test Mode	:Tx		A	Antenna Pol. :\	/ertical	
EUT Pol	:E2 Plane	Э	E	Engineer :S	Sam Huang	
				0	U	
100 Level (dBu	V/m)		1			
90						
70						
60						
50	2 4					
40 30	3					
20						
10						
1000	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
4804.000	Average	42.93	0.98	43.91	54.00	-10.09
4804.000	Peak	48.82	0.98	49.80	74.00	-24.20
7206.000	Average	29.27	8.13	37.40	54.00	-16.60
7206.000	Peak	39.42	8.13	47.55	74.00	-26.45

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Report Numbe	er :TERF23	12003241E2	Т	est Site :SA	AC D	
Operation Mod	de :BLE 2M		Т	est Date :20	24-01-30	
Test Frequenc	y :2402 M⊦	łz	Т	emp./Humi. :24	.3 ℃/55%	
Test Mode	:Tx		A	ntenna Pol. :Ho	orizontal	
EUT Pol	:E2 Plane	e	E	Engineer :Sa	m Huang	
				J	Ū	
100 Level (dBu	V/m)					
90						
80						
70						
50	2					
40						
30						
20						
10						
0 1000	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.000	Average	48.52	0.98	49.50	54.00	-4.50
4804.000	Peak	53.07	0.98	54.05	74.00	-19.95
7206.000	Average	28.84	8.13	36.97	54.00	-17.03
7206.000	Peak	39.75	8.13	47.88	74.00	-26.12

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Report Numbe	r :TERF23	12003241E2		Test Site :S	SAC D	
Operation Mod	le :BLE 2M			Test Date :2	2024-01-30	
Test Frequenc	y :2442 M⊦	Ηz		Temp./Humi. :2	24.3 °C/55%	
Test Mode	:Tx			Antenna Pol. :	Vertical	
EUT Pol	:E2 Plane	Э		Engineer :	Sam Huang	
				J		
100 Level (dBu	V/m)					
90						
80						
70						
50	2 4					
40						
30						
20						
10						
0L 1000	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
					- /	
4884.000	Average	41.46	0.97	42.43	54.00	-11.57
4884.000	Peak	47.75	0.97	48.72	74.00	-25.28
7326.000 7326.000	Average Peak	29.05 39.02	9.03 9.03	38.08 48.05	54.00 74.00	-15.92 -25.95
1320.000	FEak	59.0Z	9.03	40.05	74.00	-20.90

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Report Numbe	r :TERF23	12003241E2		Test Site :S	AC D	
Operation Mod	de :BLE 2M			Test Date :2	024-01-30	
Test Frequenc	y :2442 M⊦	Ηz		Temp./Humi. :2	4.3 ℃/55%	
Test Mode	:Tx			Antenna Pol. :H	lorizontal	
EUT Pol	:E2 Plane	9		Engineer :S	am Huang	
		-				
100 Level (dBu	V/m)				<b>1</b>	
90						
80						
70 60						
50						
40	3					
30						
10						
0	6100.	11200. Frequen	16300. су (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	Ū
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4004.000	•	17 11	0.07	10.11	54.00	
4884.000 4884.000	Average Peak	47.44 52.63	0.97 0.97	48.41 53.60	54.00 74.00	-5.59 -20.40
7326.000	Average	28.45	9.03	37.47	54.00	-20.40
7326.000	Peak	39.11	9.03	48.14	74.00	-25.86

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Report Numbe	r :TERF23	12003241E2	-	Test Site :S	SAC D	
Operation Mod	le :BLE 2M		-	Test Date :2	2024-01-30	
Test Frequency	y :2480 Mł	Ηz	-	Temp./Humi. :2	24.3 ℃/55%	
Test Mode	:Tx			Antenna Pol. :\	/ertical	
EUT Pol	:E2 Plane	Э		Engineer :S	Sam Huang	
				0	Ū.	
100 Level (dBu	V/m)					
90						
80						
70						
50	4					
40	2					
30	1					
20						
10						
1000	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
1000 000		04.05	4 07	00.40	54.00	~~~~
4960.000 4960.000	Average Peak	31.25	1.87	33.12	54.00	-20.88
4960.000 7440.000	Average	41.57 28.97	1.87 9.98	43.44 38.95	74.00 54.00	-30.56 -15.05
7440.000	Peak	38.79	9.98	48.78	74.00	-25.22

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Report Numbe	r :TERF23	12003241E2	-	Test Site :S	SAC D	
Operation Mod	de :BLE 2M		-	Test Date :2	024-01-30	
Test Frequenc	y :2480 Mł	Ηz	-	Temp./Humi. :2	<b>4.3 ℃/55%</b>	
Test Mode	:Tx			Antenna Pol. :F	lorizontal	
EUT Pol	:E2 Plane	9		Engineer :S	am Huang	
				5	5	
100 Level (dBu	V/m)					
90						
80						
70 60						
50	2 4					
40	3					
30						
20						
10						
0L 1000	6100.	11200. Frequen	16300. cy (MHz)	21400.	26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
				10.00	- /	
4960.000	Average	41.99	1.87	43.86	54.00	-10.14
4960.000 7440.000	Peak	47.85 28.89	1.87 9.98	49.71 38.87	74.00 54.00	-24.29 -15.13
7440.000	Average Peak	38.26	9.98 9.98	48.25	74.00	-15.13
10.000	r can	00.20	3.30	70.20	17.00	-20.10

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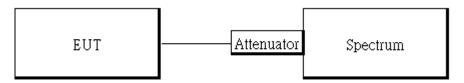
# **12 POWER SPECTRAL DENSITY**

#### 12.1 **Standard Applicable:**

Per Part 15.247 (e) & RSS-247 section 5.2 b

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:**

- 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.
- Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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#### 12.4 Measurement Result:

### Port 1

### **BLE 1M mode**

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-2.070	8	PASS
2442	-2.350	8	PASS
2480	-2.830	8	PASS

\*Note:

1.cable loss as 10.8dB that offsets in the spectrum

### BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-4.680	8	PASS
2442	-4.940	8	PASS
2480	-5.490	8	PASS

\*Note:

1.cable loss as 10.8dB that offsets in the spectrum

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Port 2

# **BLE 1M mode**

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-5.580	8	PASS
2442	-1.530	8	PASS
2480	-1.960	8	PASS

\*Note:

1.cable loss as 10.8dB that offsets in the spectrum

### **BLE 2M mode**

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-6.340	8	PASS
2442	-4.220	8	PASS
2480	-4.660	8	PASS

\*Note:

1.cable loss as 10.8dB that offsets in the spectrum

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.

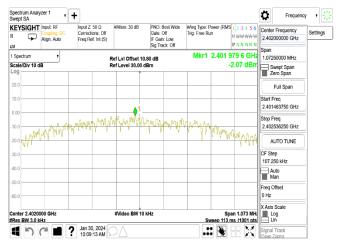
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# Report No.: TERF2312003241E2 Page: 128 of 130

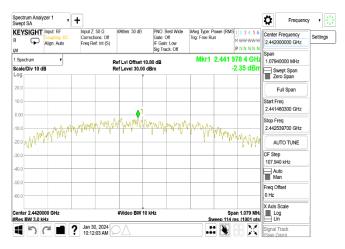


### Port 1

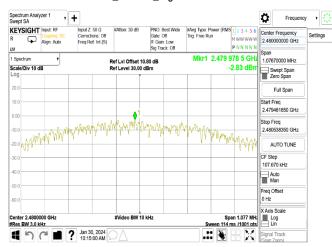
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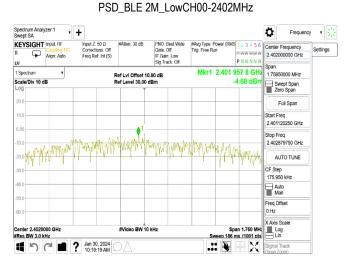


### PSD BLE 1M MidCH20-2442MHz

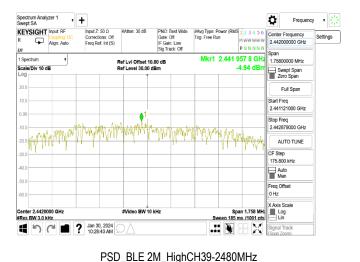


### PSD BLE 1M HighCH39-2480MHz









#### Spectrum Analyzer 1 Swept SA Ö · + Frequency KEYSIGHT Input: RF PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off rt 7: 50 0 #Avg Type: Po Trig: Free Run Corrections: Off Freq Ref: Int (S) Center Frequency 2.480000000 GHz Settings Align: Auto PNNNN LXI Span 1.75800000 MHz Ref Lvi Offset 10.80 dB Mkr1 2 479 957 8 GHz Scale/Div 10 dE -5.49 d Swept Span Zero Span Full Span Start Free 2.479121000 GH Stop Freq .480879000 GH NA MAN AUTO TUNE 175 800 kHz Auto Man Freq Offse 0 Hz X Axis Scale Span 1.758 MH: Log 185 ms (1001 pts Lin #Video BW 10 kH Center 2.4800000 GHz #Res BW 3.0 kHz # $\mathbb{R}$ Signal Track

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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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

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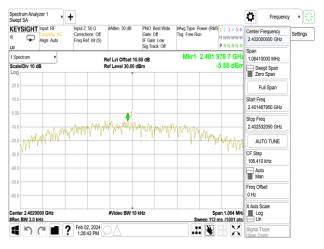
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# Report No.: TERF2312003241E2 Page: 129 of 130

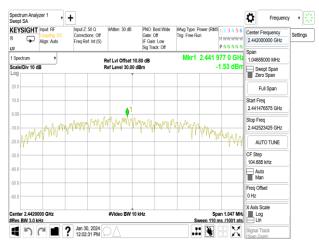


### Port 2

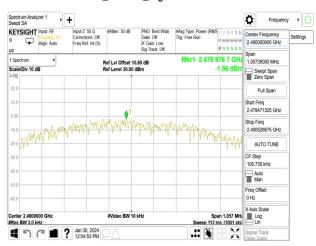
PSD\_BLE 1M\_LowCH00-2402MHz

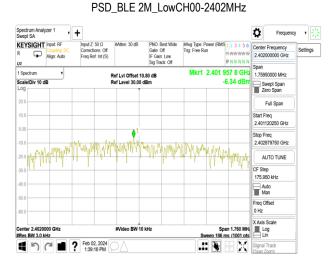


### PSD BLE 1M MidCH20-2442MHz

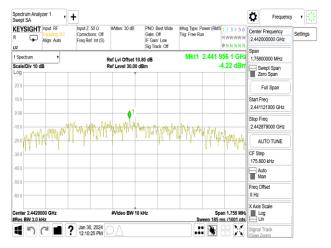


### PSD BLE 1M HighCH39-2480MHz

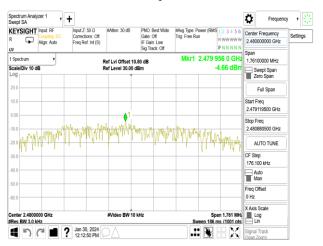








### PSD BLE 2M HighCH39-2480MHz



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 complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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