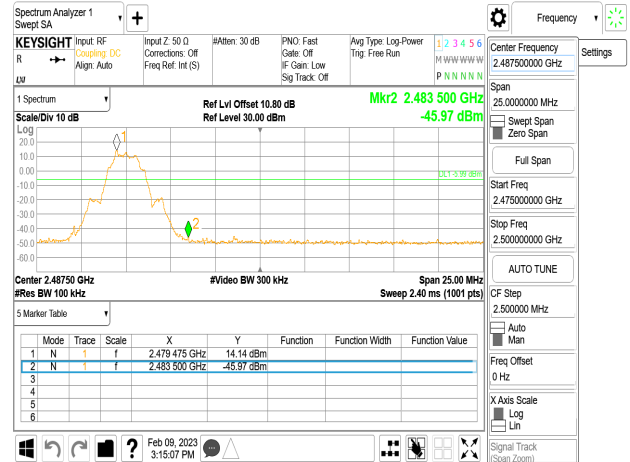


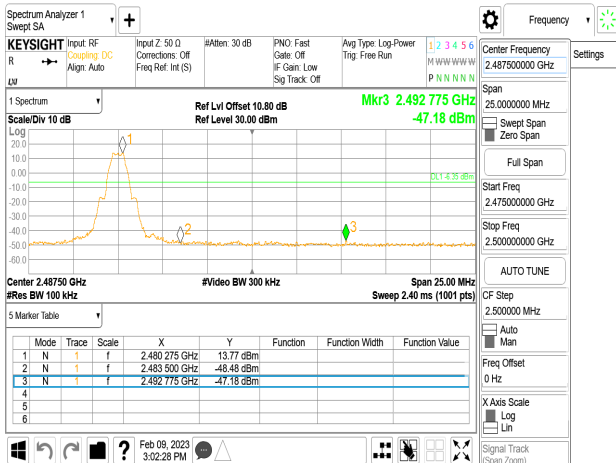
Band Edge_BLE 1M_LowCH00-2402MHz



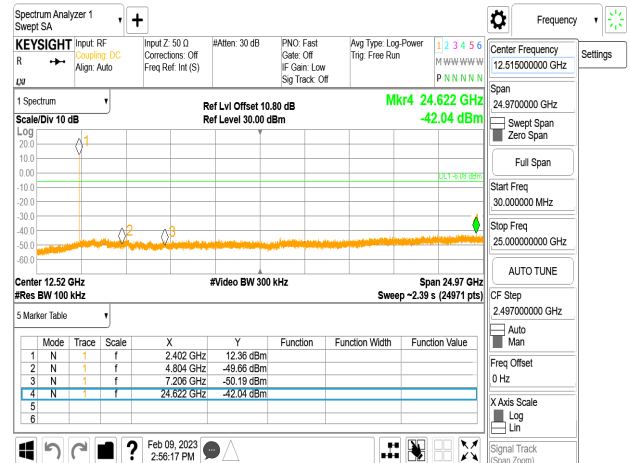
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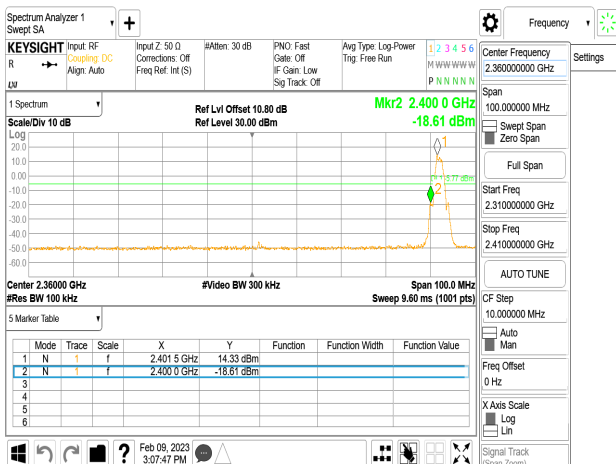
Band Edge_BLE 1M_HighCH39-2480MHz



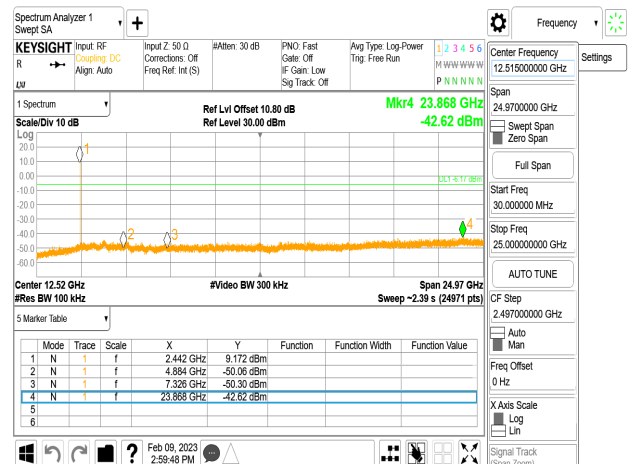
Spurious Emission_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



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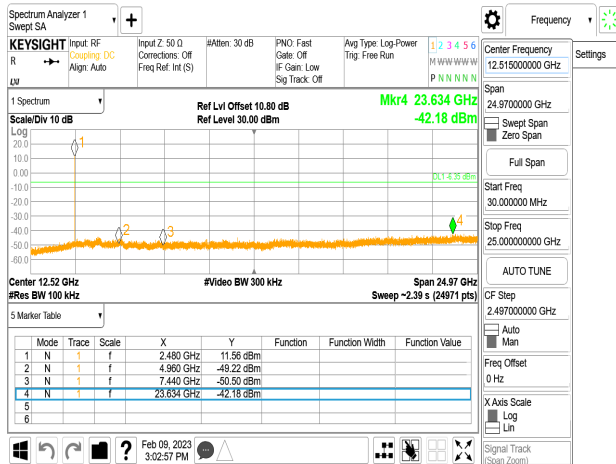
t (886-2) 2299-3279

f (886-2) 2298-0488

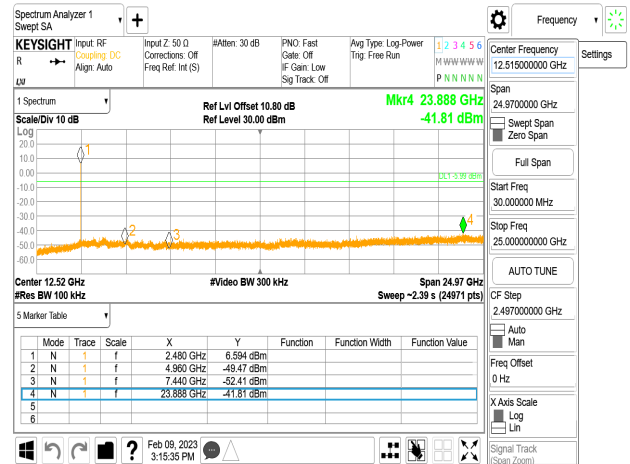
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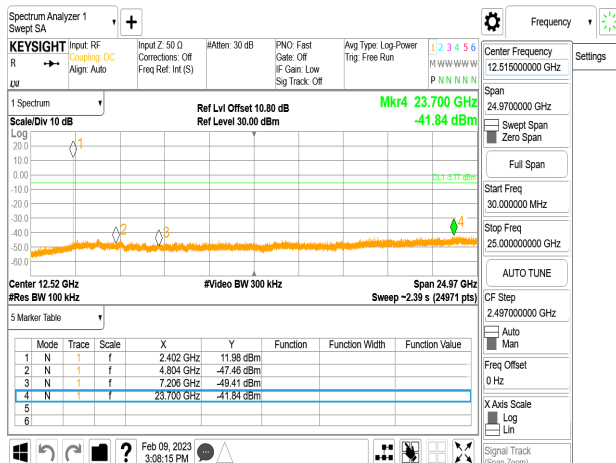
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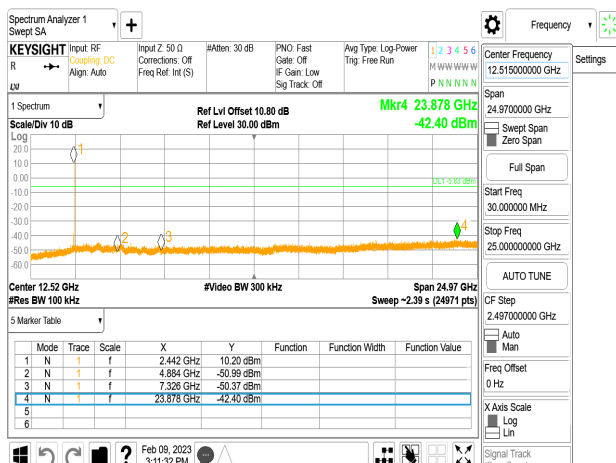
Spurious Emission_BLE 2M_HighCH39-2480MHz



Spurious Emission_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH20-2442MHz



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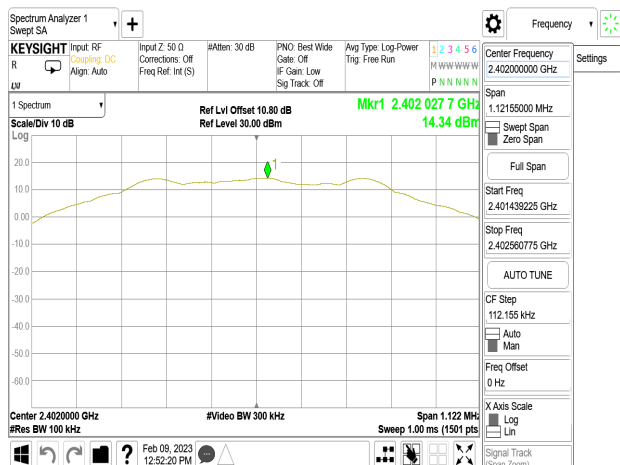
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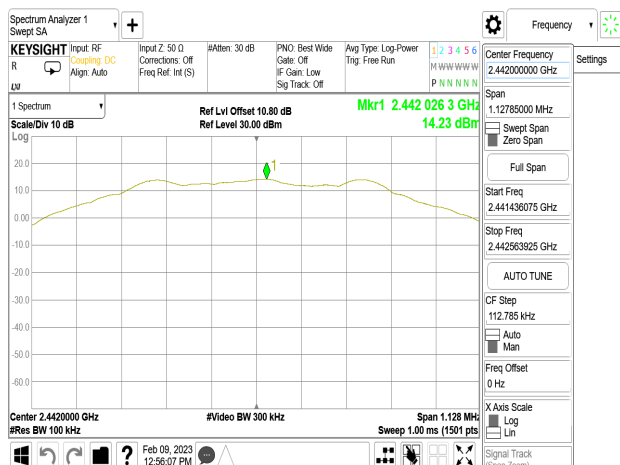
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Reference Level_BLE 2M_LowCH00-2402MHz



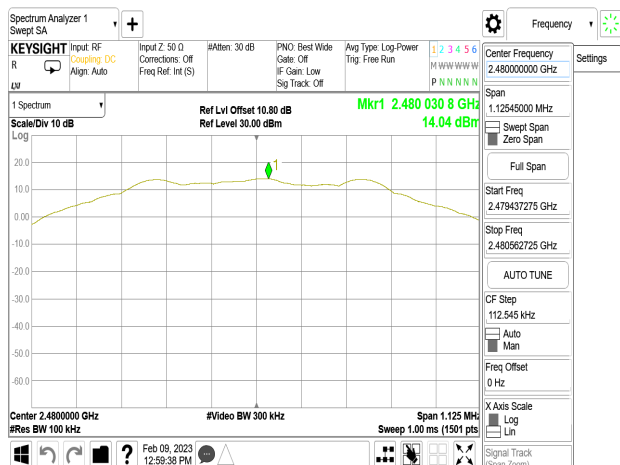
Reference Level_BLE 1M_MidCH20-2442MHz



Reference Level_BLE 2M_MidCH20-2442MHz



Reference Level_BLE 1M_HighCH39-2480MHz



Reference Level_BLE 2M_HighCH39-2480MHz



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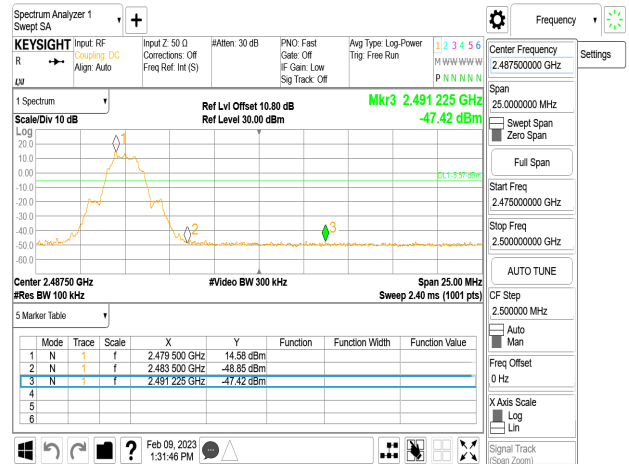
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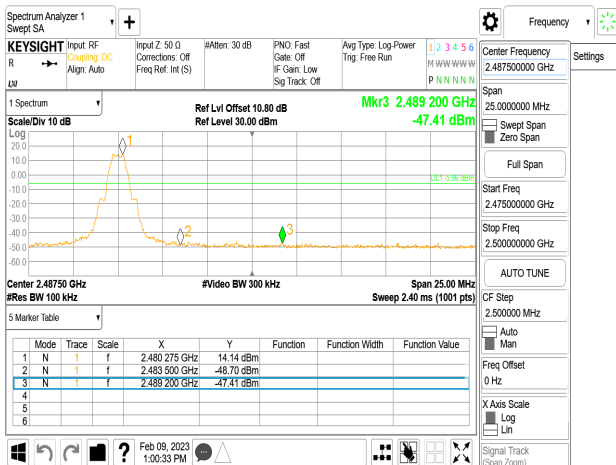
Band Edge_BLE 1M_LowCH00-2402MHz



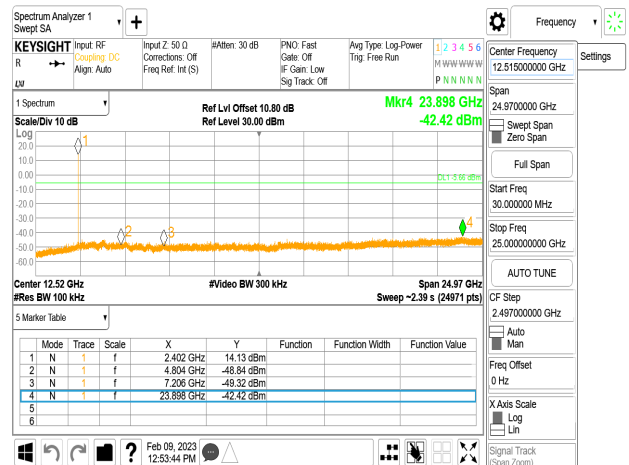
Band Edge_BLE 2M_HighCH39-2480MHz



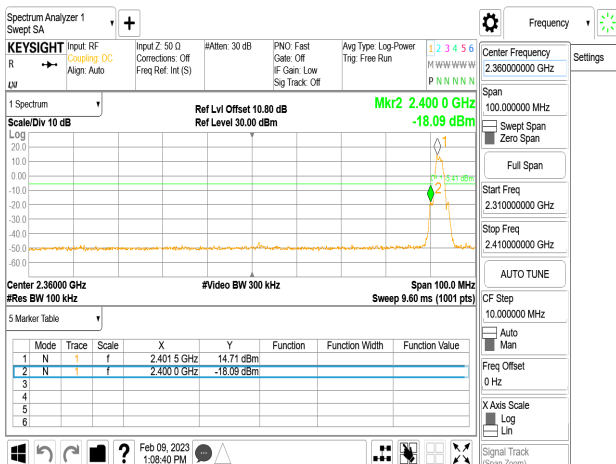
Band Edge_BLE 1M_HighCH39-2480MHz



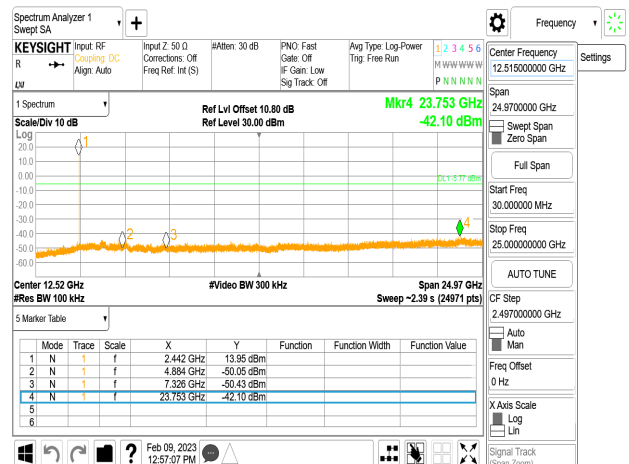
Spurious Emission_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



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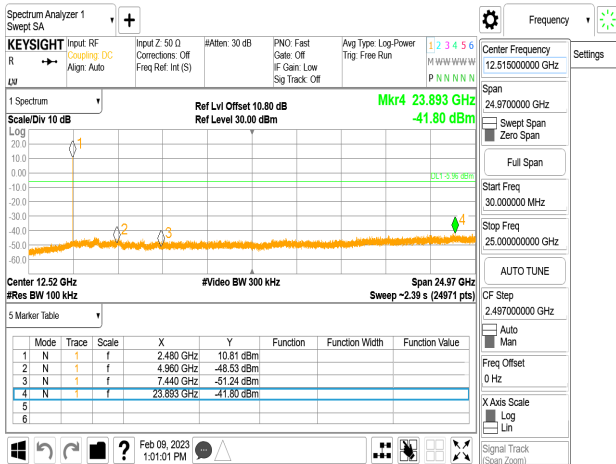
t (886-2) 2299-3279

f (886-2) 2298-0488

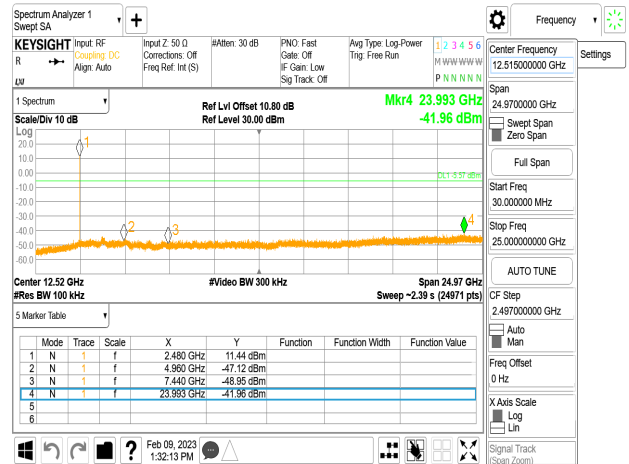
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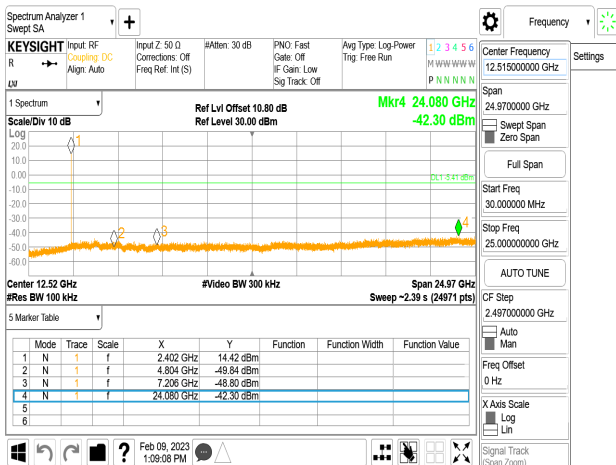
Spurious Emission_BLE 1M_HighCH39-2480MHz



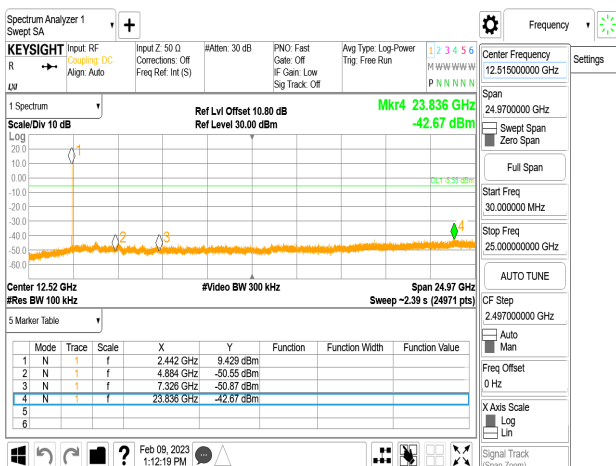
Spurious Emission_BLE 2M_HighCH39-2480MHz



Spurious Emission_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH20-2442MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

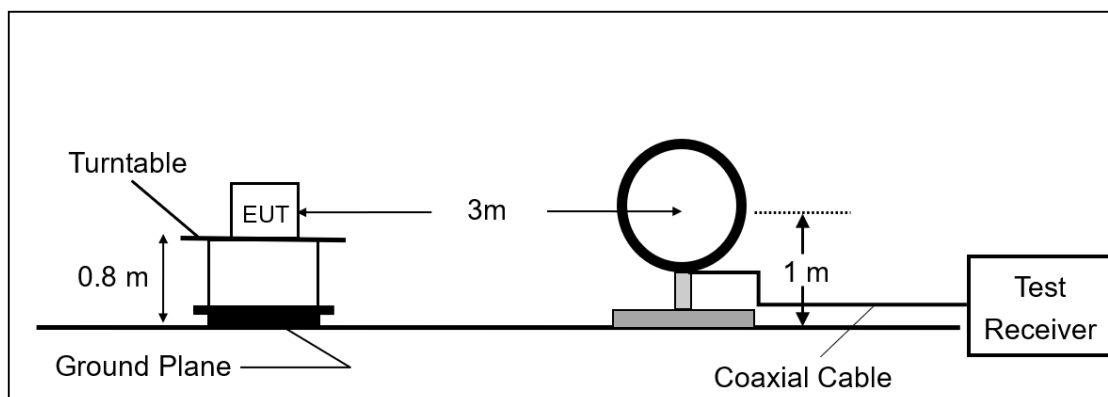
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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.

11.2 Test Setup

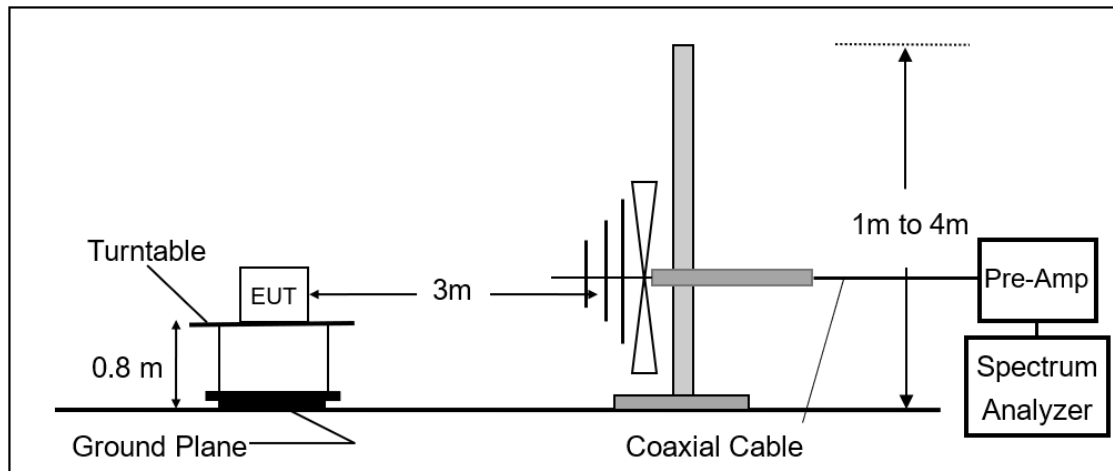
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



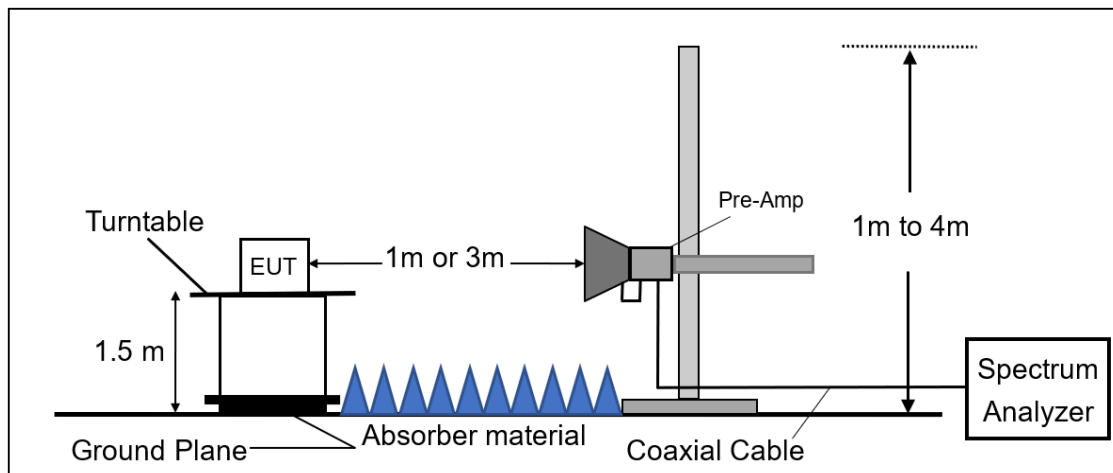
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



11.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

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

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

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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11.6 Measurement Result:

11.6.1 Radiated Band Edge Measurement Result

ANT0(monopole)

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

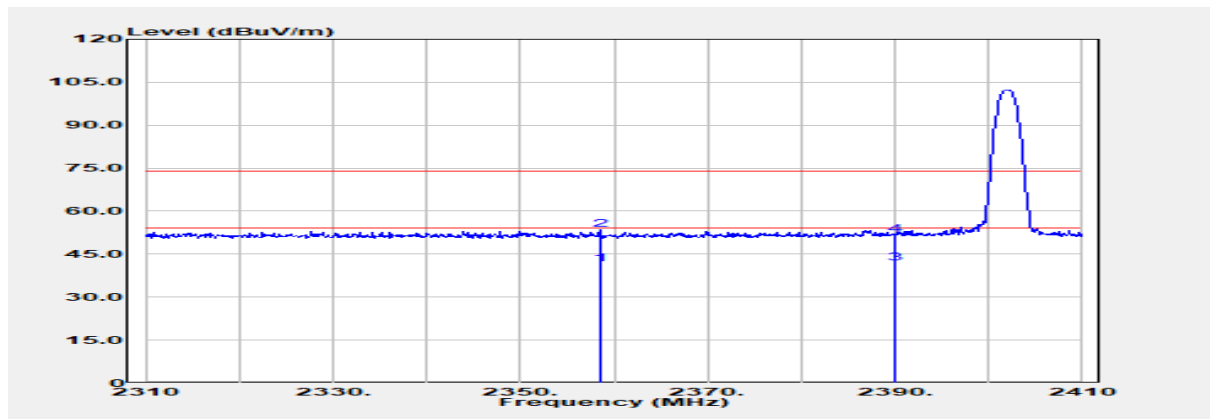
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2358.500	Average	37.52	3.92	41.44	54.00	-12.56
2358.500	Peak	49.61	3.92	53.52	74.00	-20.48
2390.000	Average	37.66	4.03	41.69	54.00	-12.31
2390.000	Peak	47.60	4.03	51.63	74.00	-22.37

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

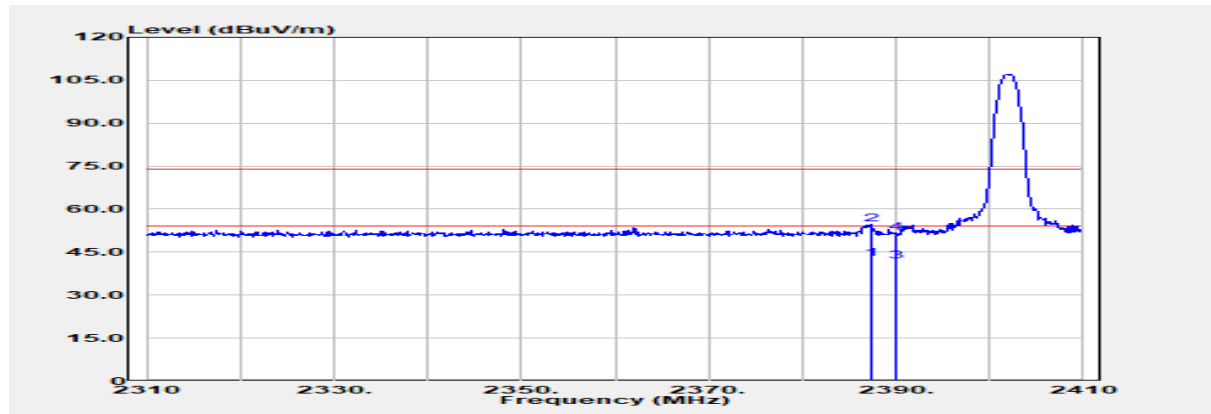
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2387.400	Average	38.61	4.02	42.63	54.00	-11.37
2387.400	Peak	50.64	4.02	54.66	74.00	-19.34
2390.000	Average	37.64	4.03	41.67	54.00	-12.33
2390.000	Peak	47.58	4.03	51.61	74.00	-22.39

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

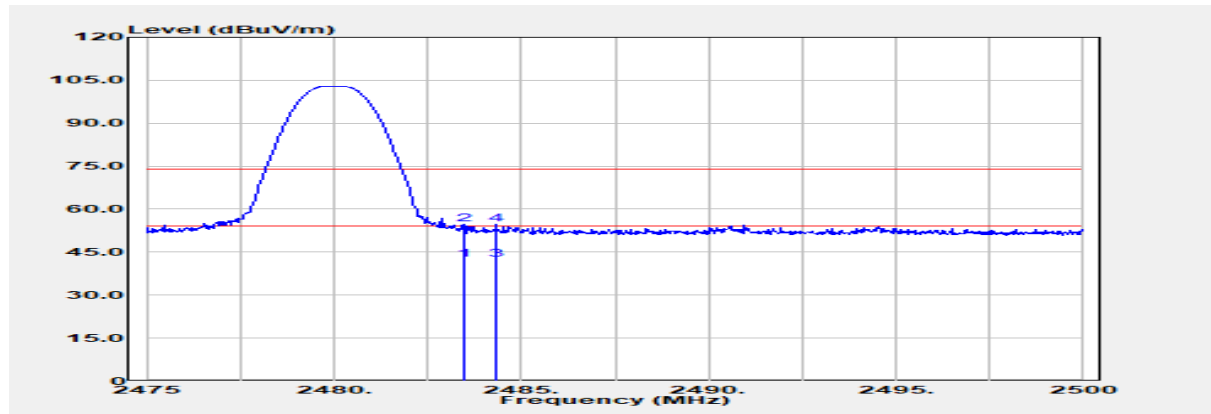
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	38.19	4.20	42.39	54.00	-11.61
2483.500	Peak	50.40	4.20	54.60	74.00	-19.40
2484.325	Average	38.07	4.20	42.27	54.00	-11.73
2484.325	Peak	50.45	4.20	54.65	74.00	-19.35

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

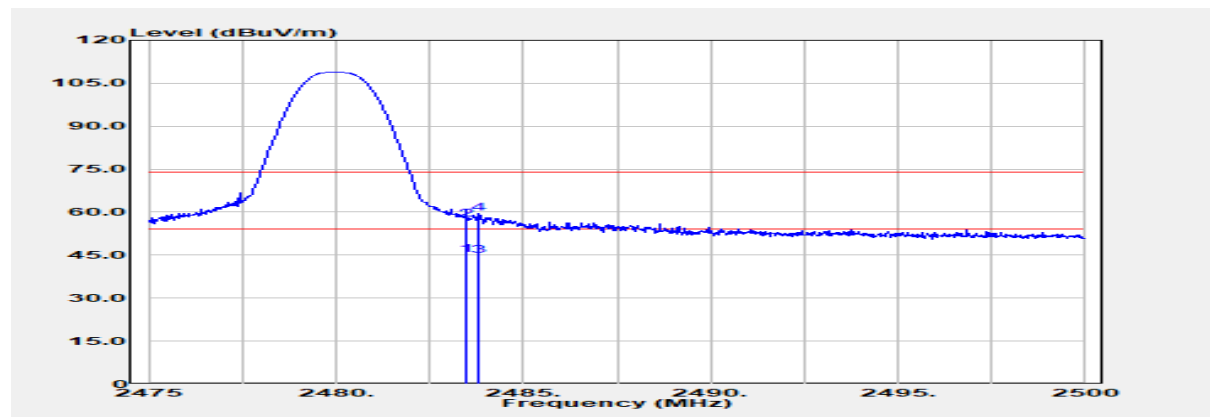
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	41.02	4.20	45.22	54.00	-8.78
2483.500	Peak	53.36	4.20	57.56	74.00	-16.44
2483.825	Average	40.68	4.20	44.88	54.00	-9.12
2483.825	Peak	55.43	4.20	59.63	74.00	-14.37

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

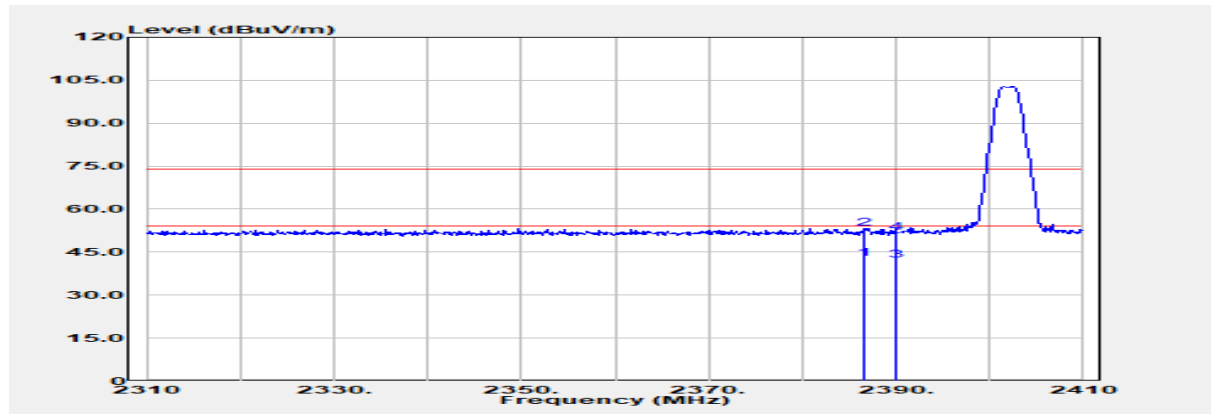
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2386.500	Average	38.62	4.02	42.64	54.00	-11.36
2386.500	Peak	49.25	4.02	53.27	74.00	-20.73
2390.000	Average	38.11	4.03	42.14	54.00	-11.86
2390.000	Peak	47.79	4.03	51.82	74.00	-22.18

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

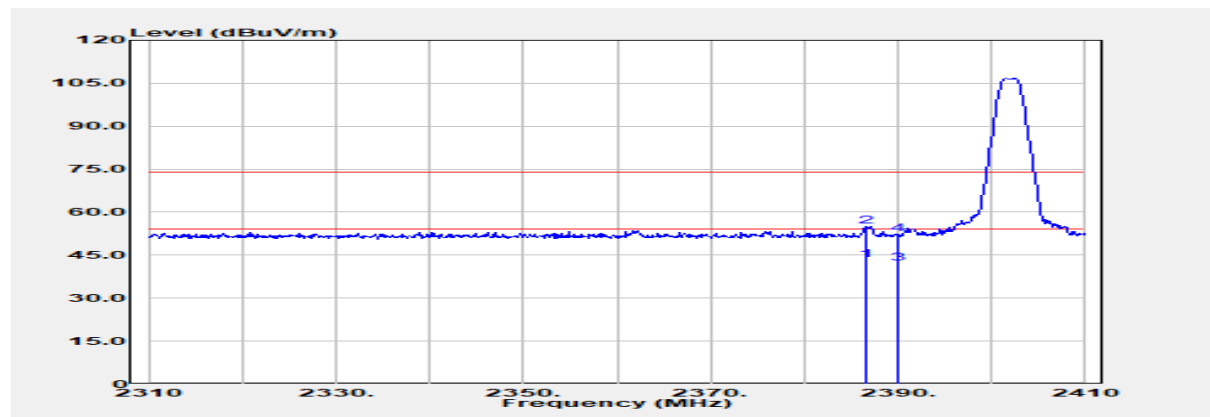
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2386.500	Average	39.41	4.02	43.43	54.00	-10.57
2386.500	Peak	51.12	4.02	55.14	74.00	-18.86
2390.000	Average	38.04	4.03	42.08	54.00	-11.92
2390.000	Peak	48.34	4.03	52.37	74.00	-21.63

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

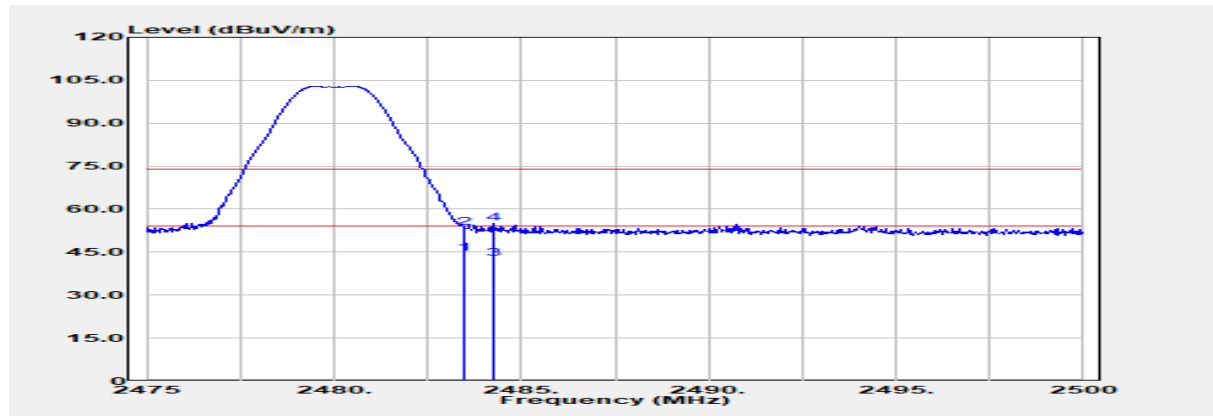
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	40.24	4.20	44.44	54.00	-9.56
2483.500	Peak	49.25	4.20	53.45	74.00	-20.55
2484.275	Average	38.57	4.20	42.76	54.00	-11.24
2484.275	Peak	50.87	4.20	55.07	74.00	-18.93

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Member of SGS Group

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

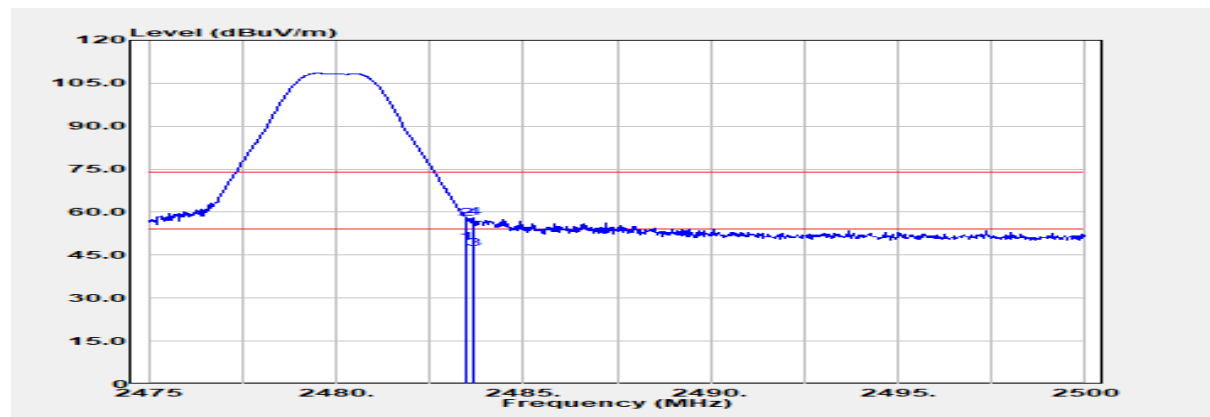
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	45.00	4.20	49.20	54.00	-4.80
2483.500	Peak	53.45	4.20	57.65	74.00	-16.35
2483.675	Average	43.09	4.20	47.29	54.00	-6.71
2483.675	Peak	53.91	4.20	58.11	74.00	-15.89

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ANT0(dipole)

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

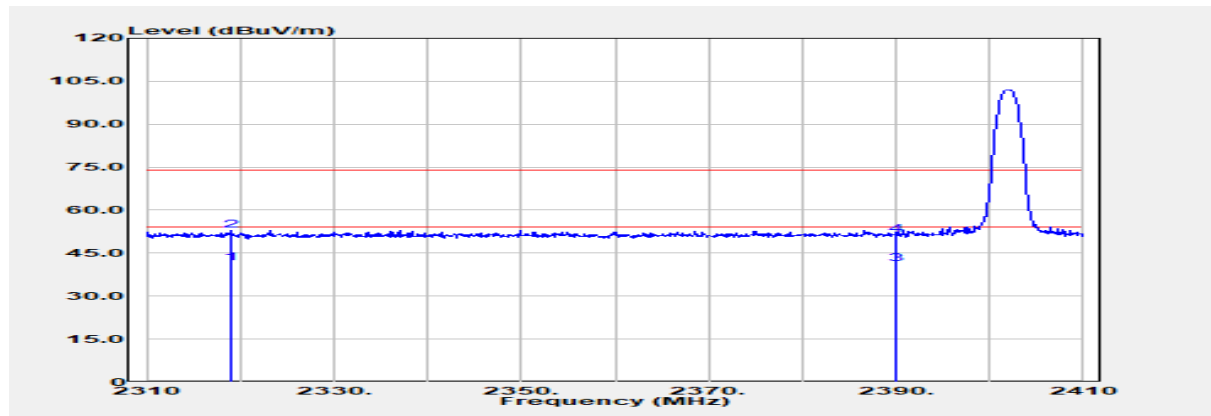
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2319.100	Average	37.33	4.03	41.36	54.00	-12.64
2319.100	Peak	49.02	4.03	53.06	74.00	-20.95
2390.000	Average	37.28	4.03	41.31	54.00	-12.69
2390.000	Peak	47.52	4.03	51.56	74.00	-22.44

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

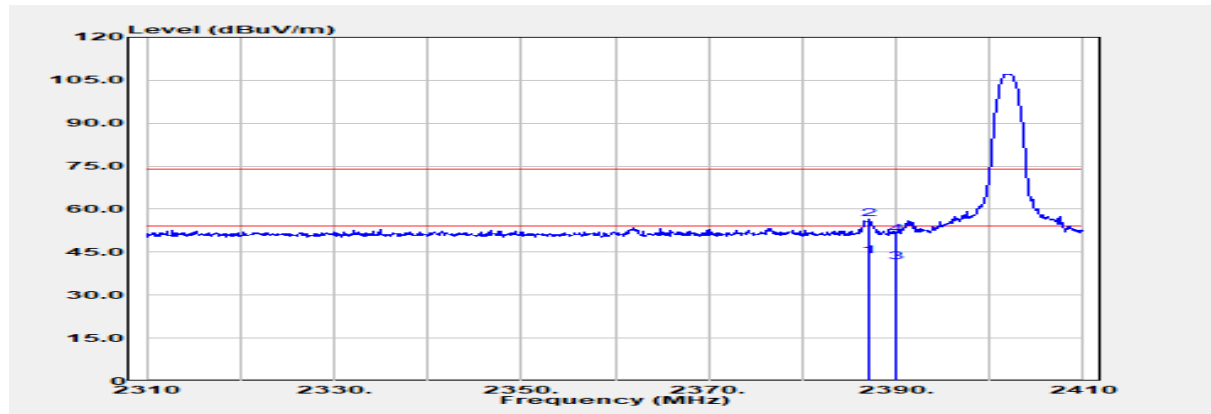
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2387.200	Average	39.60	4.02	43.63	54.00	-10.37
2387.200	Peak	52.42	4.02	56.44	74.00	-17.56
2390.000	Average	37.57	4.03	41.60	54.00	-12.40
2390.000	Peak	47.00	4.03	51.03	74.00	-22.97

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

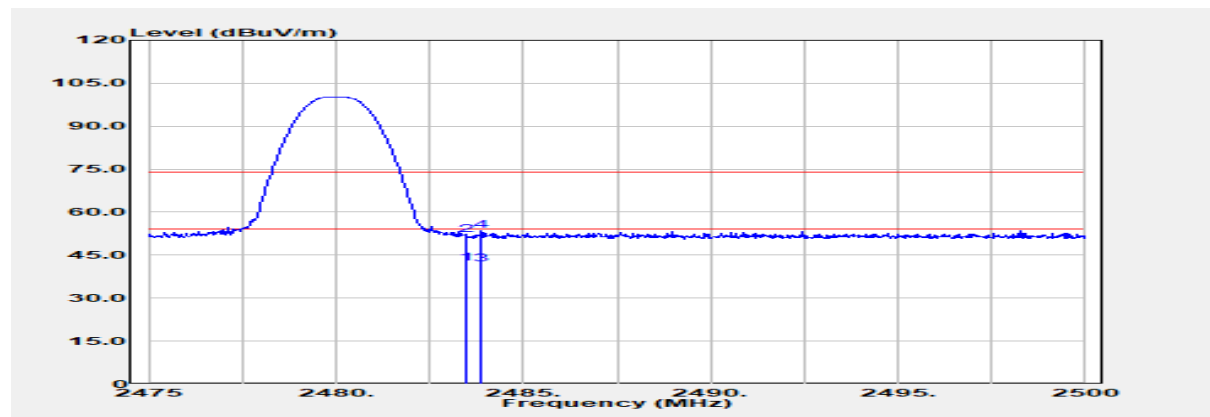
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	37.98	4.20	42.18	54.00	-11.82
2483.500	Peak	47.68	4.20	51.88	74.00	-22.12
2483.875	Average	37.66	4.20	41.86	54.00	-12.14
2483.875	Peak	49.33	4.20	53.53	74.00	-20.47

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

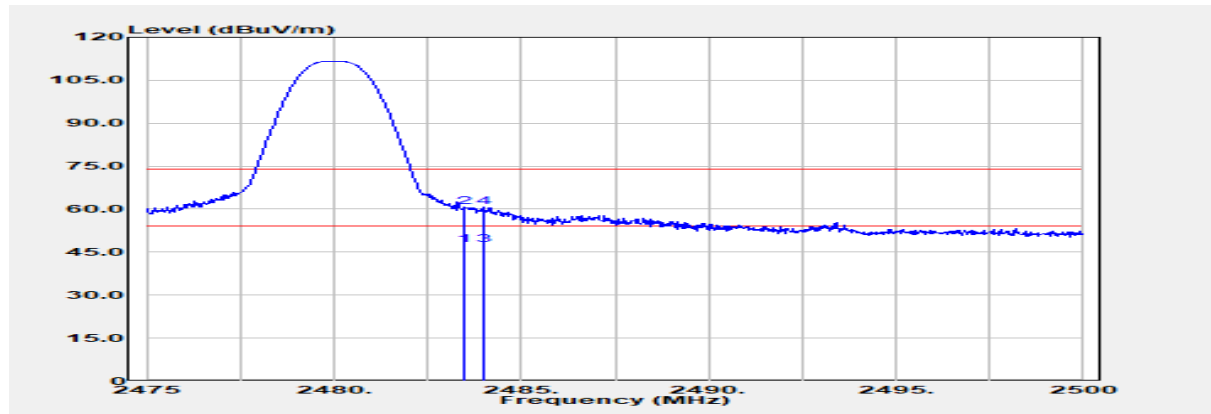
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	43.18	4.20	47.38	54.00	-6.62
2483.500	Peak	56.68	4.20	60.89	74.00	-13.11
2484.025	Average	43.17	4.20	47.37	54.00	-6.63
2484.025	Peak	56.53	4.20	60.73	74.00	-13.27

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

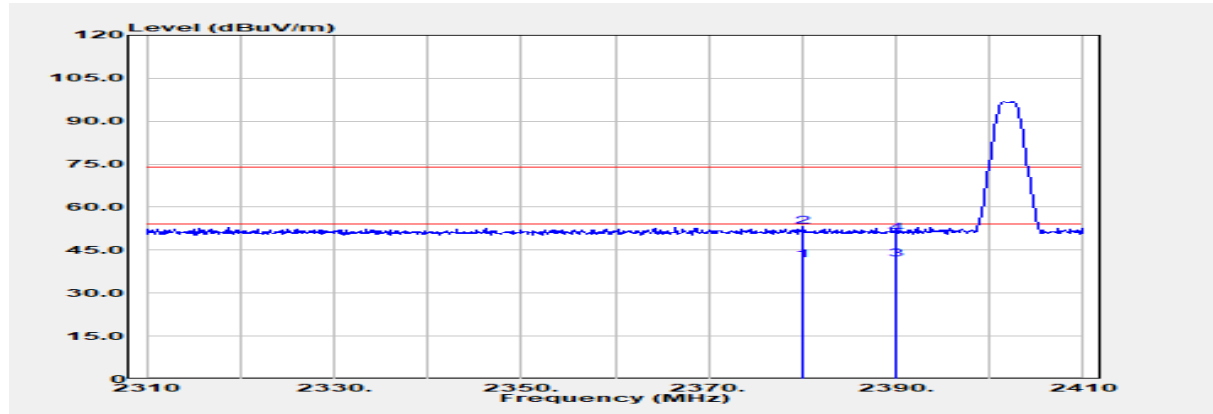
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2380.100	Average	37.56	4.00	41.56	54.00	-12.44
2380.100	Peak	49.15	4.00	53.14	74.00	-20.86
2390.000	Average	37.83	4.03	41.86	54.00	-12.14
2390.000	Peak	46.75	4.03	50.79	74.00	-23.21

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

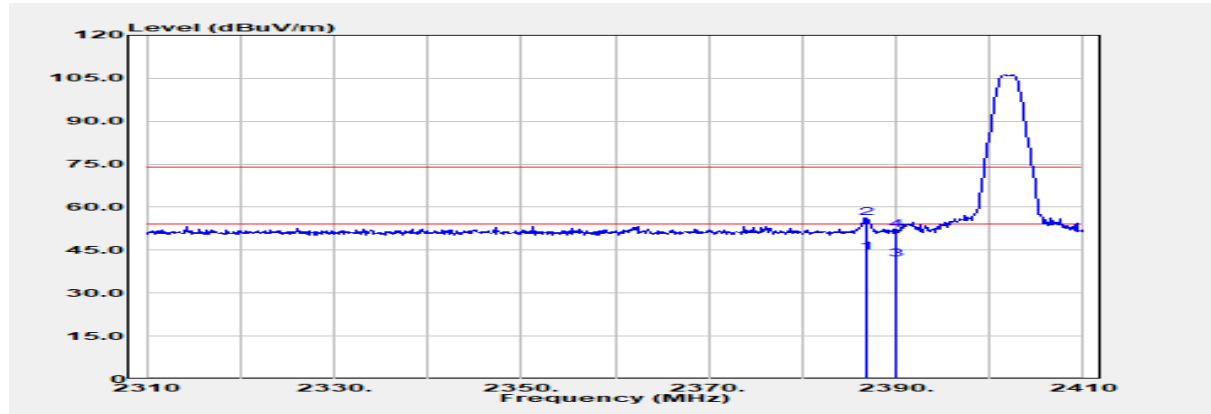
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2386.900	Average	40.09	4.02	44.11	54.00	-9.89
2386.900	Peak	52.25	4.02	56.27	74.00	-17.73
2390.000	Average	37.81	4.03	41.85	54.00	-12.15
2390.000	Peak	47.90	4.03	51.93	74.00	-22.07

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

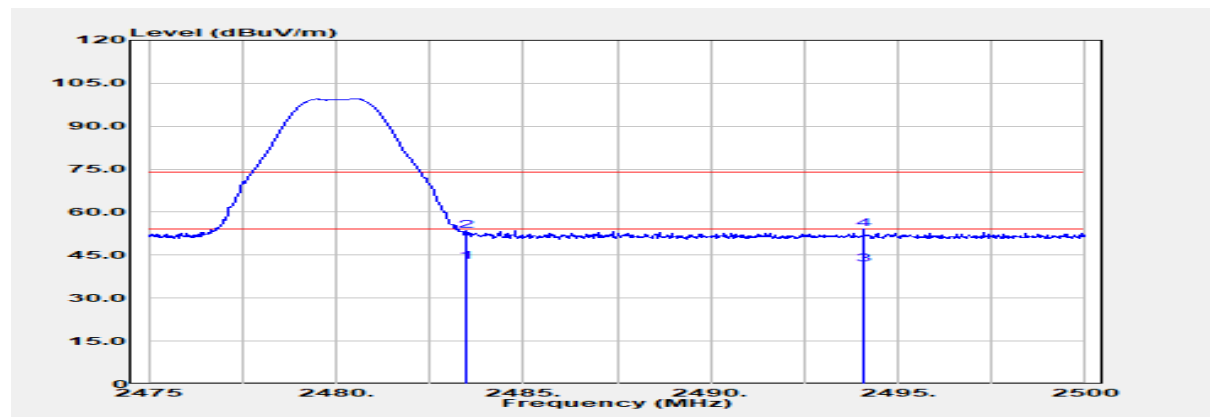
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	38.59	4.20	42.80	54.00	-11.20
2483.500	Peak	49.37	4.20	53.57	74.00	-20.43
2494.075	Average	37.67	4.17	41.84	54.00	-12.16
2494.075	Peak	49.85	4.17	54.02	74.00	-19.98

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

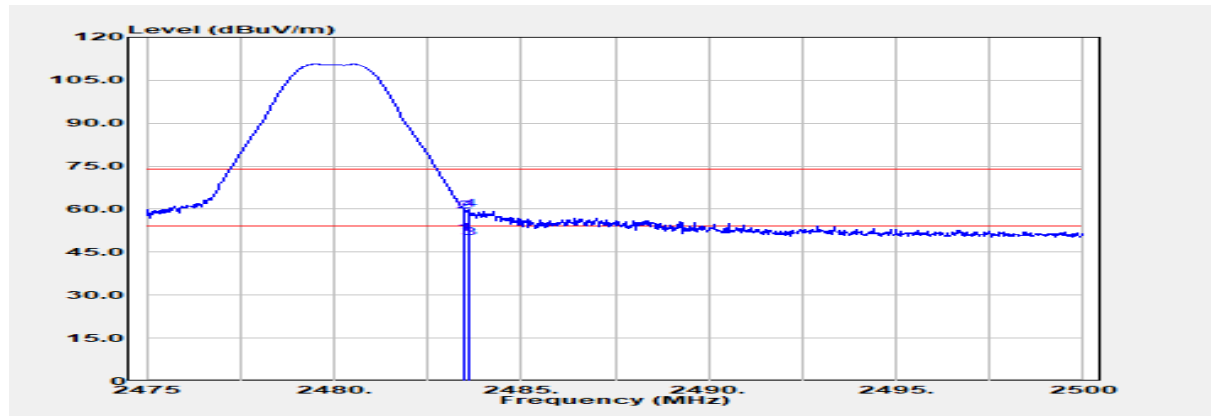
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	47.25	4.20	51.45	54.00	-2.55
2483.500	Peak	54.98	4.20	59.18	74.00	-14.82
2483.600	Average	45.76	4.20	49.96	54.00	-4.04
2483.600	Peak	55.53	4.20	59.73	74.00	-14.27

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ANT1(dipole)

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

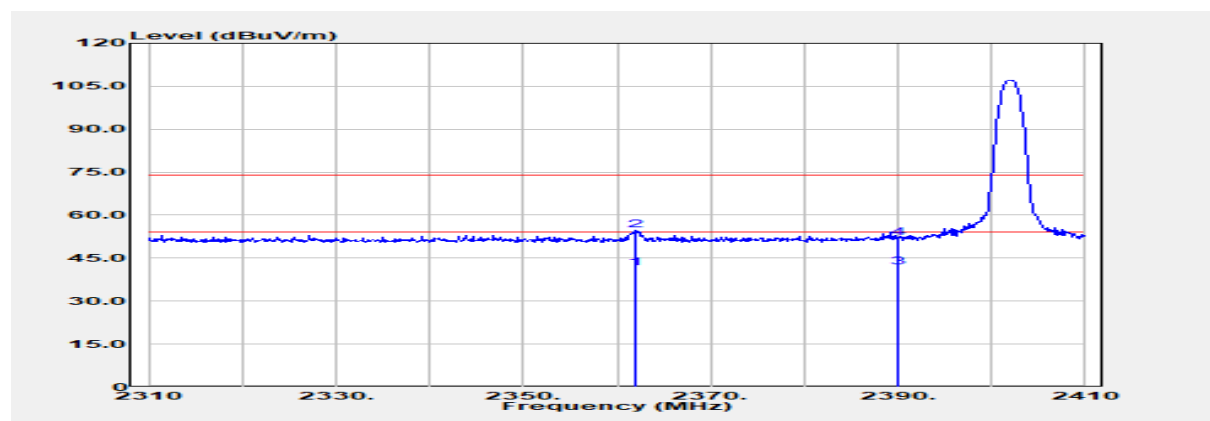
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2361.900	Average	37.70	3.93	41.62	54.00	-12.38
2361.900	Peak	50.94	3.93	54.87	74.00	-19.13
2390.000	Average	37.72	4.03	41.75	54.00	-12.25
2390.000	Peak	47.97	4.03	52.00	74.00	-22.00

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

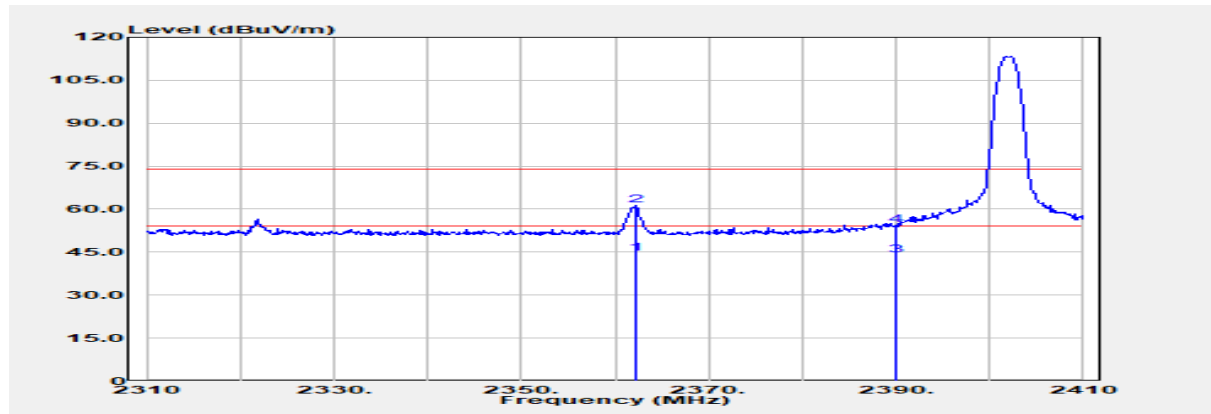
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2362.300	Average	40.46	3.93	44.39	54.00	-9.61
2362.300	Peak	57.56	3.93	61.49	74.00	-12.51
2390.000	Average	39.98	4.03	44.01	54.00	-9.99
2390.000	Peak	50.42	4.03	54.45	74.00	-19.55

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

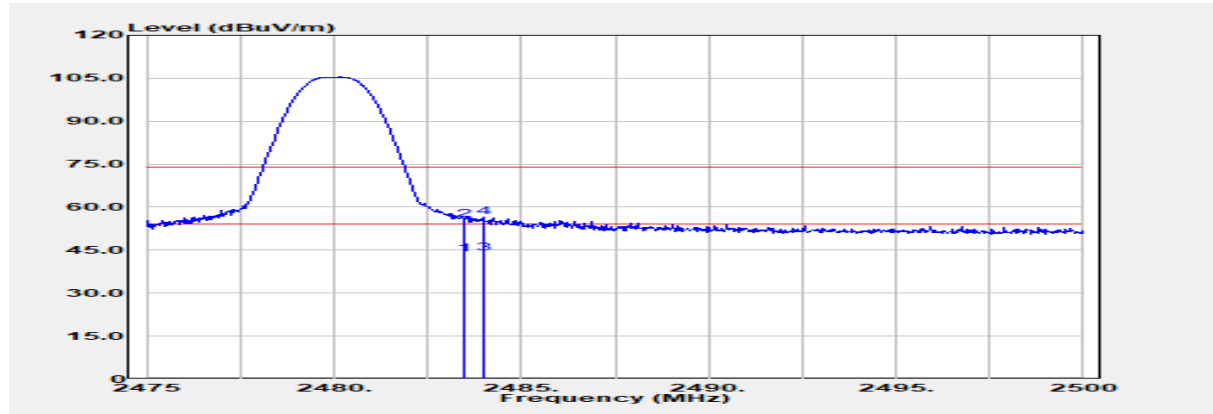
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	39.50	4.20	43.70	54.00	-10.30
2483.500	Peak	51.53	4.20	55.73	74.00	-18.27
2484.000	Average	39.59	4.20	43.79	54.00	-10.21
2484.000	Peak	52.33	4.20	56.53	74.00	-17.47

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

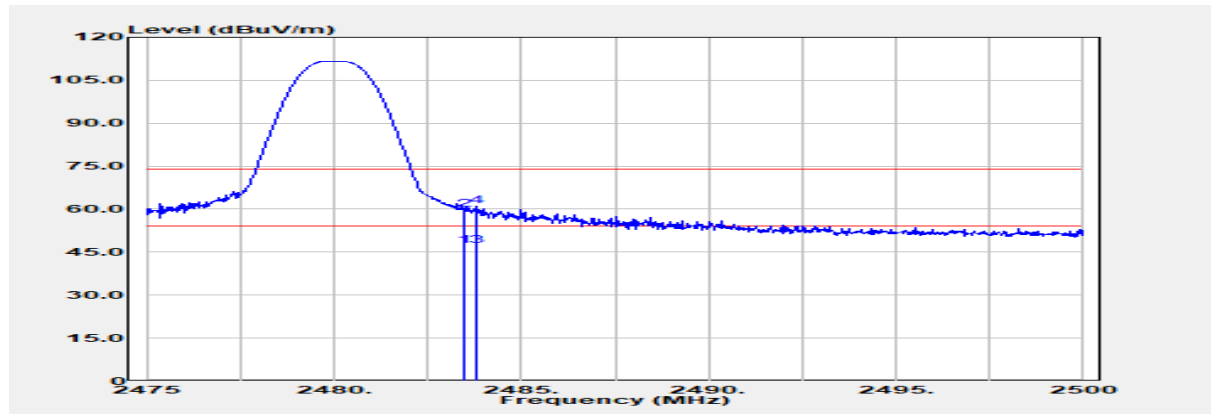
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.05	4.20	47.26	54.00	-6.74
2483.500	Peak	55.58	4.20	59.78	74.00	-14.22
2483.800	Average	43.05	4.20	47.25	54.00	-6.75
2483.800	Peak	56.78	4.20	60.98	74.00	-13.02

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

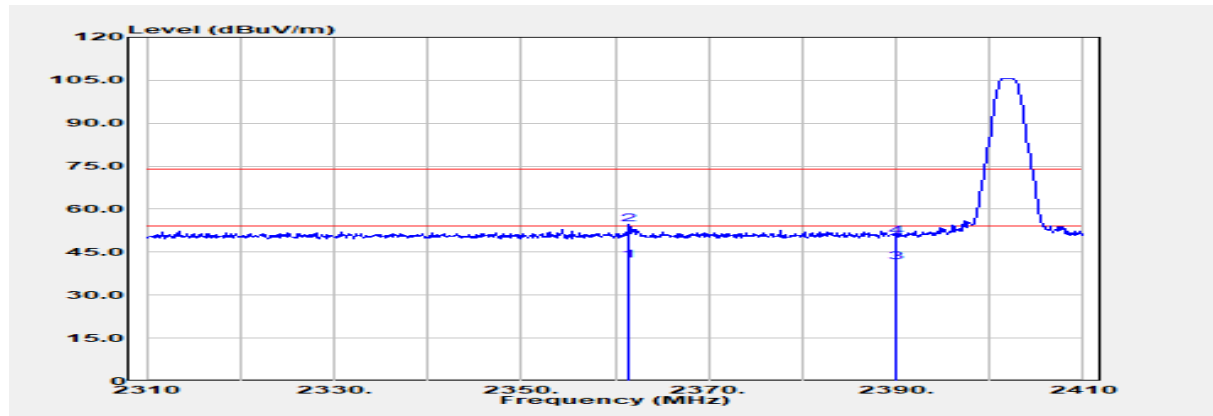
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2361.500	Average	38.18	3.93	42.11	54.00	-11.89
2361.500	Peak	50.86	3.93	54.79	74.00	-19.21
2390.000	Average	37.41	4.03	41.44	54.00	-12.56
2390.000	Peak	46.55	4.03	50.59	74.00	-23.41

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

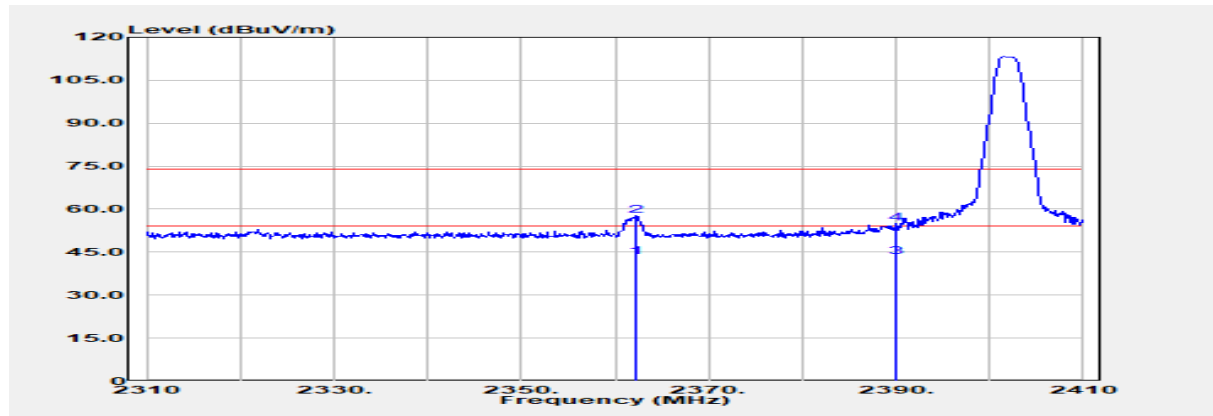
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2362.200	Average	39.24	3.93	43.17	54.00	-10.83
2362.200	Peak	53.90	3.93	57.83	74.00	-16.17
2390.000	Average	39.38	4.03	43.41	54.00	-10.59
2390.000	Peak	50.98	4.03	55.02	74.00	-18.98

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

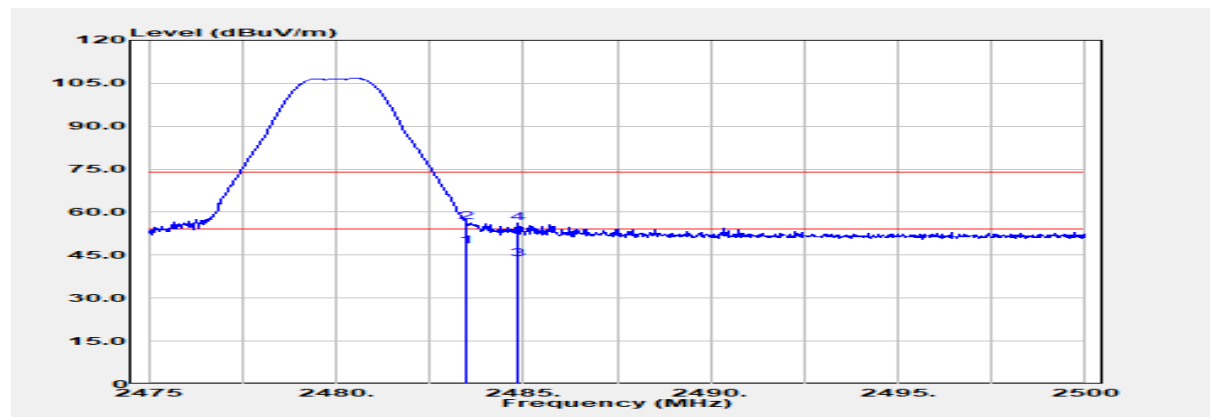
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.91	4.20	48.11	54.00	-5.89
2483.500	Peak	52.26	4.20	56.46	74.00	-17.54
2484.850	Average	39.35	4.20	43.54	54.00	-10.46
2484.850	Peak	52.15	4.20	56.35	74.00	-17.65

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

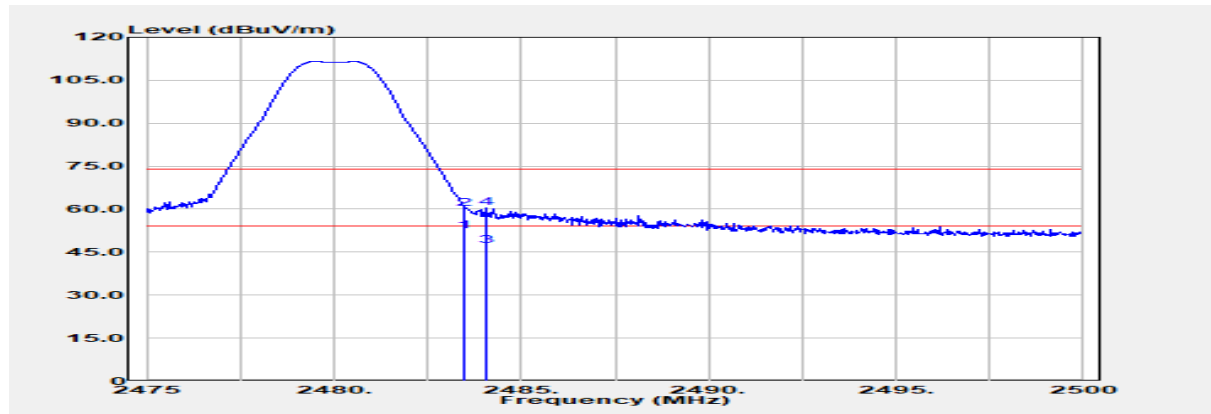
Temp./Humi. :21.6/68

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	48.28	4.20	52.48	54.00	-1.52
2483.500	Peak	56.04	4.20	60.24	74.00	-13.76
2484.075	Average	43.10	4.20	47.30	54.00	-6.70
2484.075	Peak	56.28	4.20	60.48	74.00	-13.52

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11.6.2 Radiated Spurious Emission

ANT0(monopole)

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-13

Test Frequency :2442 MHz

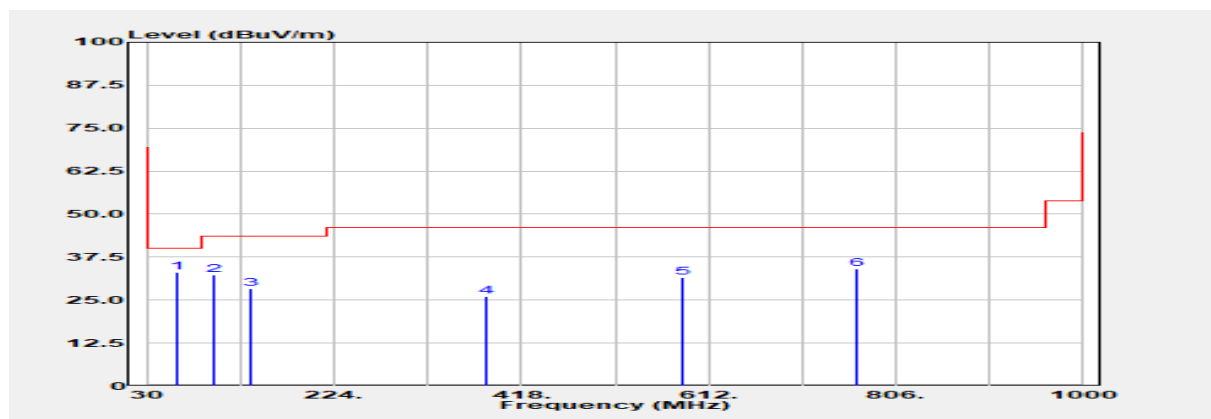
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.010	Peak	46.91	-13.82	33.09	40.00	-6.91
99.840	Peak	49.57	-17.19	32.38	43.50	-11.12
136.700	Peak	41.28	-13.05	28.23	43.50	-15.27
382.110	Peak	34.72	-8.71	26.01	46.00	-19.99
585.810	Peak	34.86	-3.32	31.54	46.00	-14.46
765.260	Peak	33.32	0.75	34.08	46.00	-11.92

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-13

Test Frequency :2442 MHz

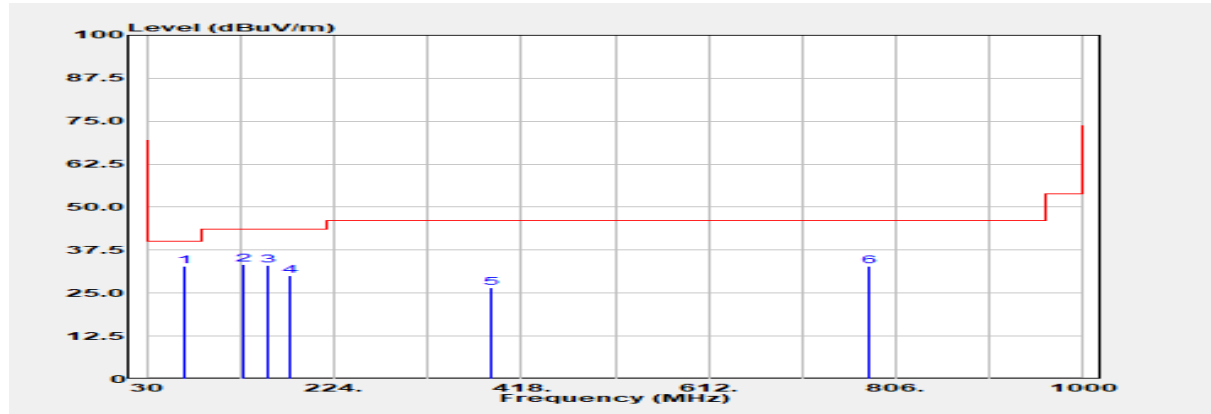
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
69.770	Peak	48.05	-15.26	32.79	40.00	-7.21
130.880	Peak	47.13	-13.73	33.40	43.50	-10.10
156.100	Peak	45.10	-12.07	33.03	43.50	-10.47
178.410	Peak	43.54	-13.54	30.01	43.50	-13.49
385.990	Peak	35.21	-8.54	26.66	46.00	-19.34
777.870	Peak	31.97	0.83	32.80	46.00	-13.20

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-13

Test Frequency :2442 MHz

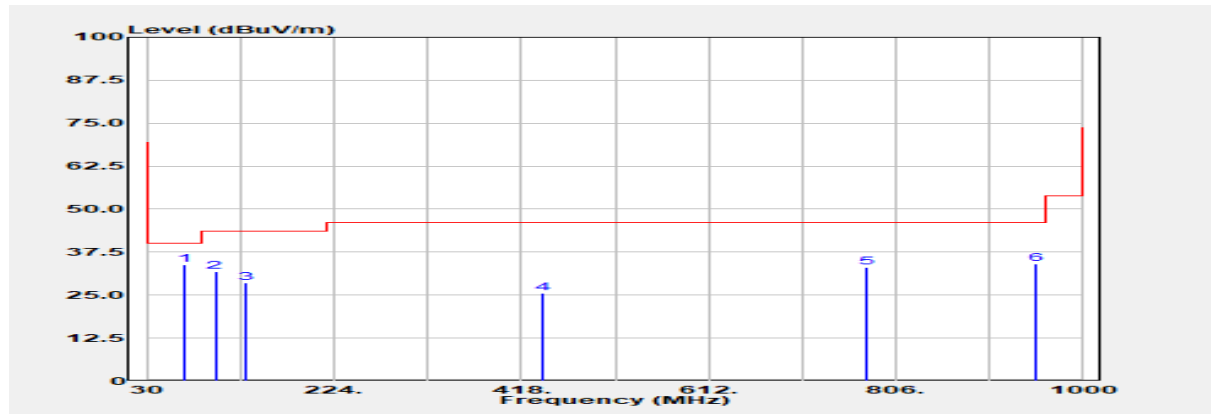
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
68.800	Peak	48.81	-15.05	33.76	40.00	-6.24
100.810	Peak	48.76	-16.99	31.76	43.50	-11.74
132.820	Peak	42.16	-13.57	28.58	43.50	-14.92
440.310	Peak	31.67	-6.11	25.57	46.00	-20.43
774.960	Peak	32.21	0.96	33.17	46.00	-12.83
950.530	Peak	30.71	3.43	34.14	46.00	-11.86

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-13

Test Frequency :2442 MHz

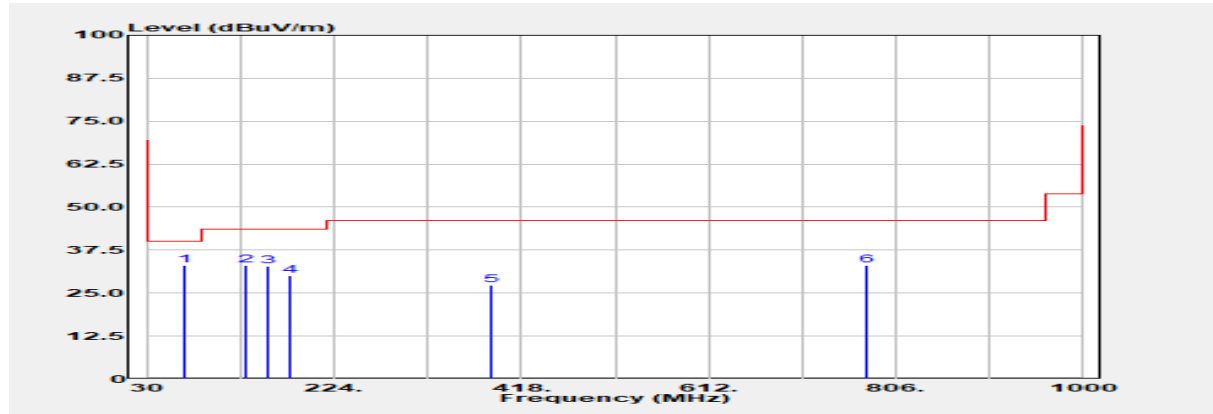
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
68.800	Peak	48.05	-15.05	33.00	40.00	-7.00
131.850	Peak	46.74	-13.68	33.06	43.50	-10.44
156.100	Peak	45.02	-12.07	32.95	43.50	-10.55
179.380	Peak	43.69	-13.59	30.10	43.50	-13.40
385.990	Peak	35.88	-8.54	27.34	46.00	-18.66
774.960	Peak	32.05	0.96	33.01	46.00	-12.99

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

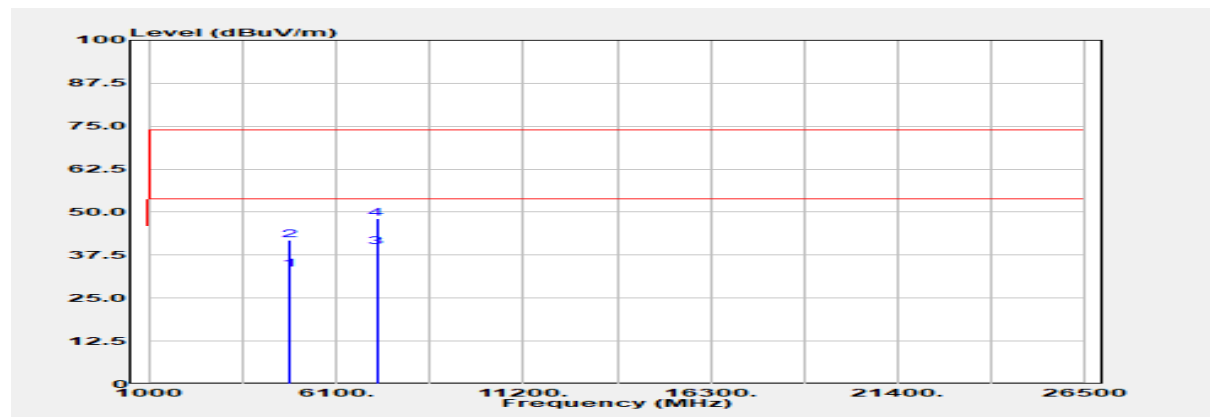
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	21.05	12.35	33.40	54.00	-20.60
4804.000	Peak	29.63	12.35	41.98	74.00	-32.02
7206.000	Average	20.04	19.76	39.80	54.00	-14.20
7206.000	Peak	28.28	19.76	48.04	74.00	-25.96

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

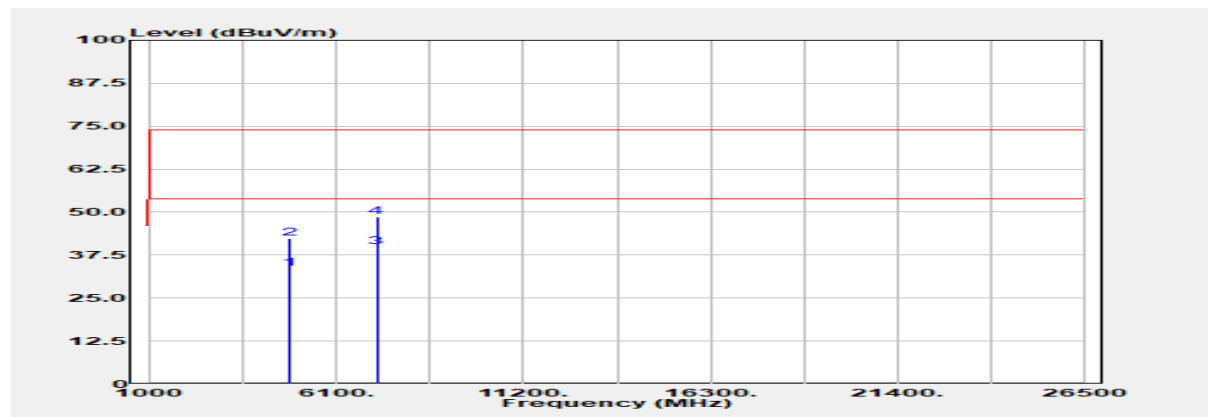
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	21.20	12.35	33.56	54.00	-20.44
4804.000	Peak	30.01	12.35	42.37	74.00	-31.63
7206.000	Average	20.02	19.76	39.78	54.00	-14.22
7206.000	Peak	28.84	19.76	48.60	74.00	-25.40

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2442 MHz

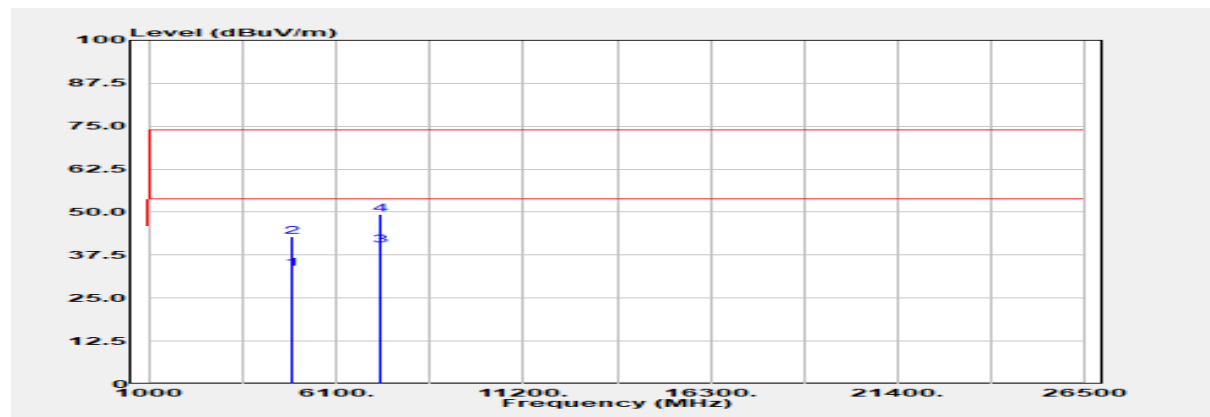
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	21.13	12.53	33.65	54.00	-20.35
4884.000	Peak	30.41	12.53	42.94	74.00	-31.06
7326.000	Average	19.66	20.69	40.36	54.00	-13.64
7326.000	Peak	28.61	20.69	49.30	74.00	-24.70

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2442 MHz

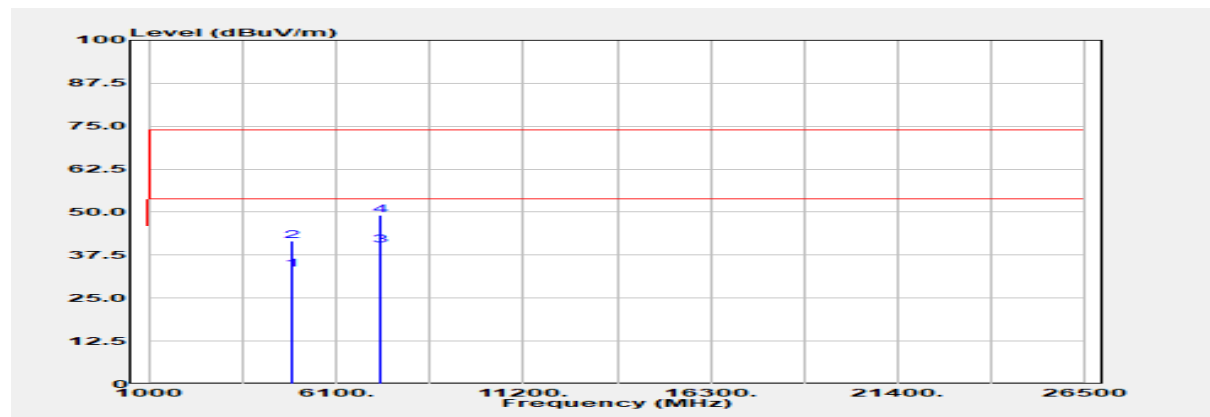
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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	Average	20.92	12.53	33.45	54.00	-20.55
4884.000	Peak	29.02	12.53	41.55	74.00	-32.45
7326.000	Average	19.62	20.69	40.31	54.00	-13.69
7326.000	Peak	28.30	20.69	49.00	74.00	-25.00

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

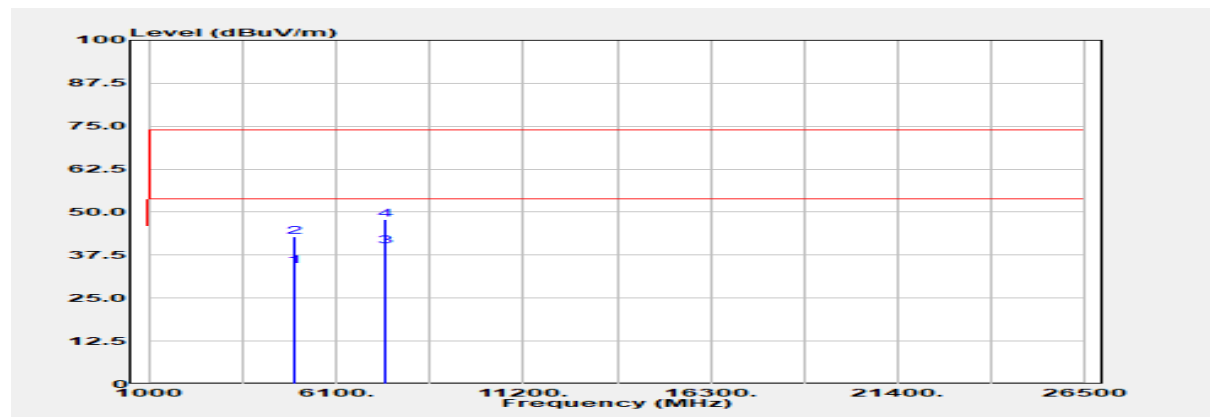
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	21.85	12.49	34.34	54.00	-19.66
4960.000	Peak	30.31	12.49	42.80	74.00	-31.20
7440.000	Average	19.50	20.58	40.08	54.00	-13.92
7440.000	Peak	27.25	20.58	47.83	74.00	-26.17

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

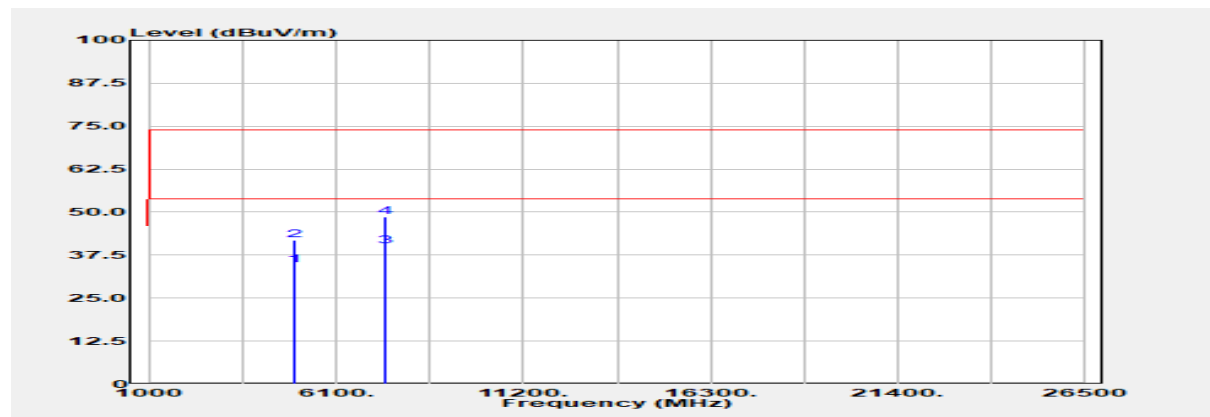
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	22.05	12.49	34.54	54.00	-19.46
4960.000	Peak	29.25	12.49	41.74	74.00	-32.26
7440.000	Average	19.52	20.58	40.10	54.00	-13.90
7440.000	Peak	27.94	20.58	48.52	74.00	-25.48

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

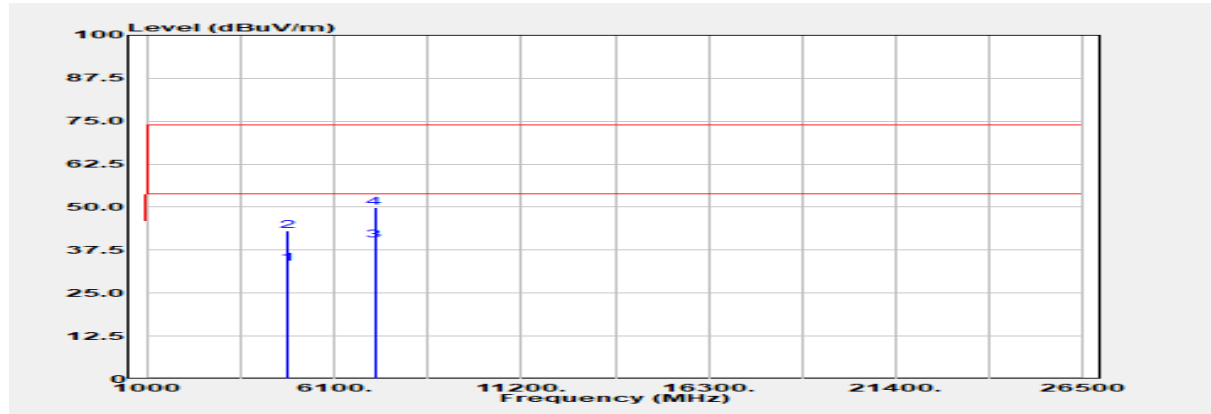
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	21.28	12.35	33.63	54.00	-20.37
4804.000	Peak	30.73	12.35	43.09	74.00	-30.91
7206.000	Average	20.51	19.76	40.27	54.00	-13.73
7206.000	Peak	30.00	19.76	49.76	74.00	-24.24

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

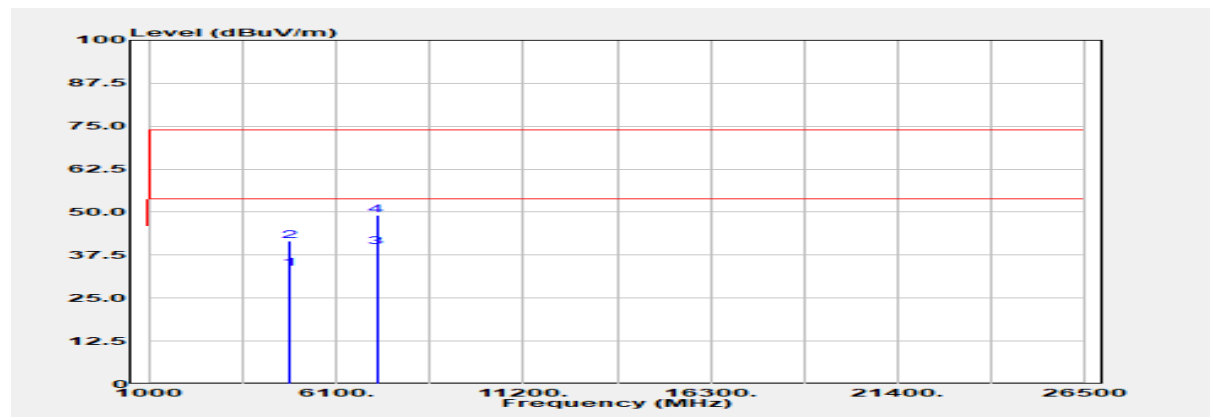
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	21.17	12.35	33.52	54.00	-20.48
4804.000	Peak	29.14	12.35	41.49	74.00	-32.51
7206.000	Average	20.08	19.76	39.83	54.00	-14.17
7206.000	Peak	29.39	19.76	49.15	74.00	-24.85

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2442 MHz

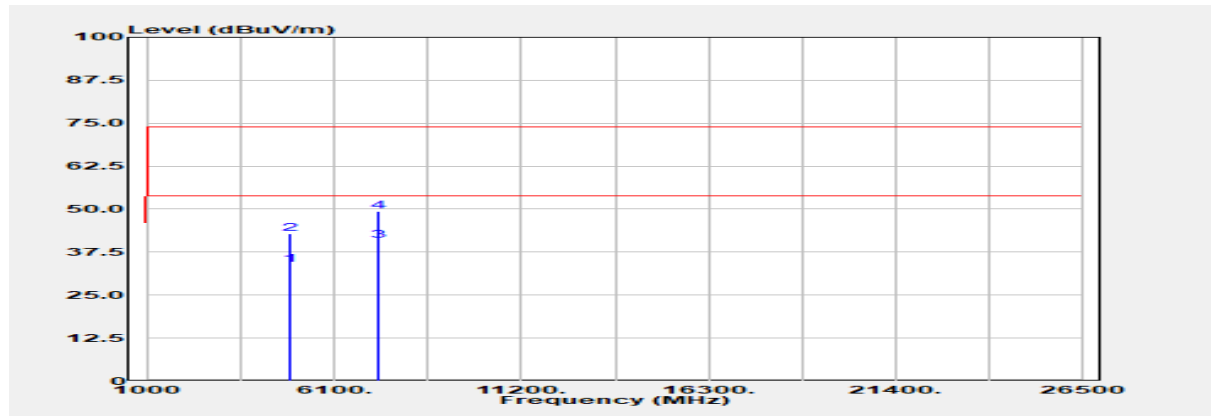
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	21.25	12.53	33.77	54.00	-20.23
4884.000	Peak	30.42	12.53	42.95	74.00	-31.05
7326.000	Average	20.09	20.69	40.78	54.00	-13.22
7326.000	Peak	28.58	20.69	49.28	74.00	-24.72

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2442 MHz

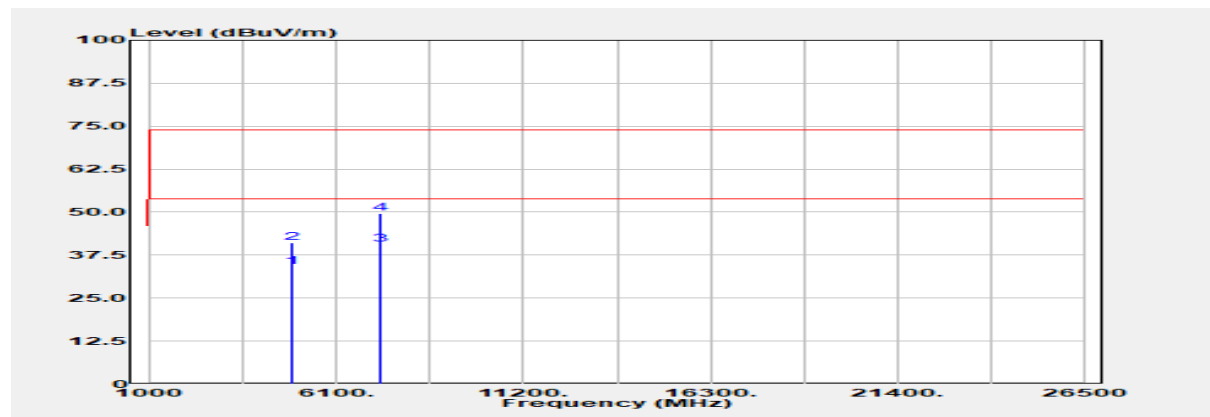
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	21.47	12.53	34.00	54.00	-20.00
4884.000	Peak	28.58	12.53	41.11	74.00	-32.89
7326.000	Average	19.81	20.69	40.50	54.00	-13.50
7326.000	Peak	28.88	20.69	49.58	74.00	-24.42

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

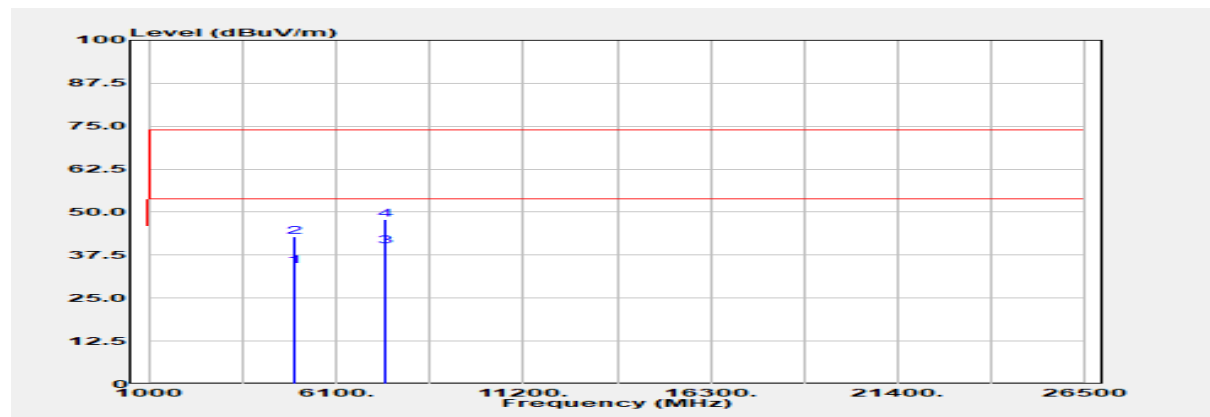
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	21.86	12.49	34.34	54.00	-19.66
4960.000	Peak	30.31	12.49	42.80	74.00	-31.20
7440.000	Average	19.50	20.58	40.08	54.00	-13.92
7440.000	Peak	27.25	20.58	47.83	74.00	-26.17

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

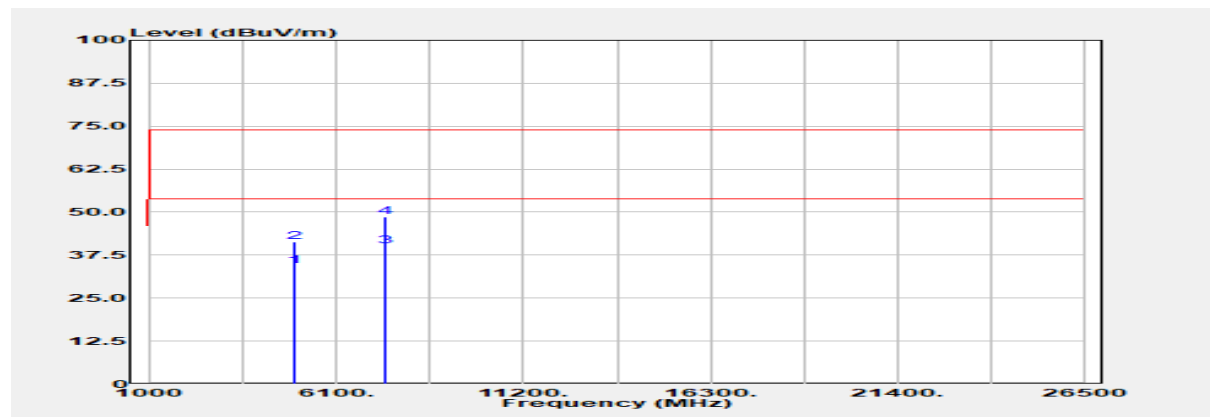
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	21.73	12.49	34.22	54.00	-19.78
4960.000	Peak	28.83	12.49	41.31	74.00	-32.69
7440.000	Average	19.52	20.58	40.10	54.00	-13.90
7440.000	Peak	27.94	20.58	48.52	74.00	-25.48

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ANT0(dipole)

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-13

Test Frequency :2442 MHz

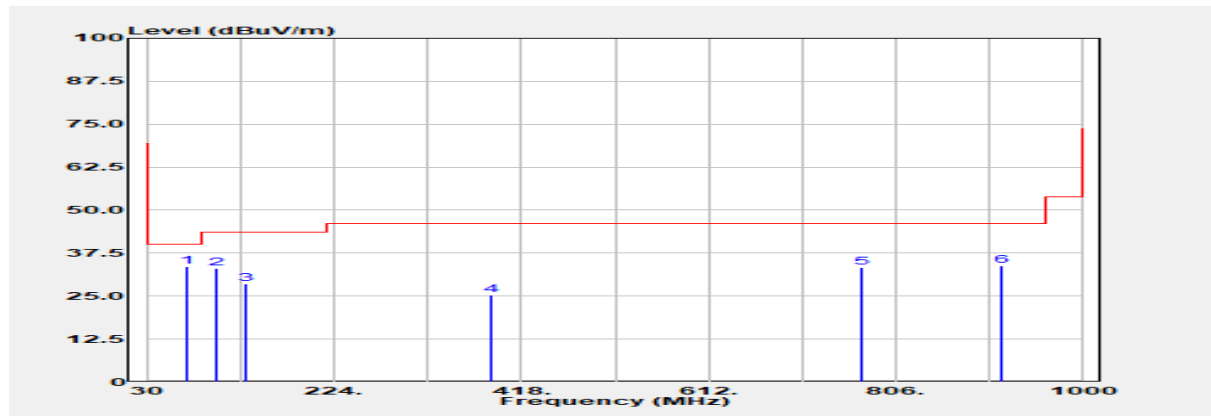
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
70.740	Peak	48.84	-15.26	33.59	40.00	-6.41
101.780	Peak	49.96	-16.87	33.09	43.50	-10.41
131.850	Peak	42.29	-13.68	28.61	43.50	-14.89
386.960	Peak	33.83	-8.50	25.33	46.00	-20.67
771.080	Peak	32.47	0.88	33.35	46.00	-12.65
915.610	Peak	30.55	3.29	33.84	46.00	-12.16

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-13

Test Frequency :2442 MHz

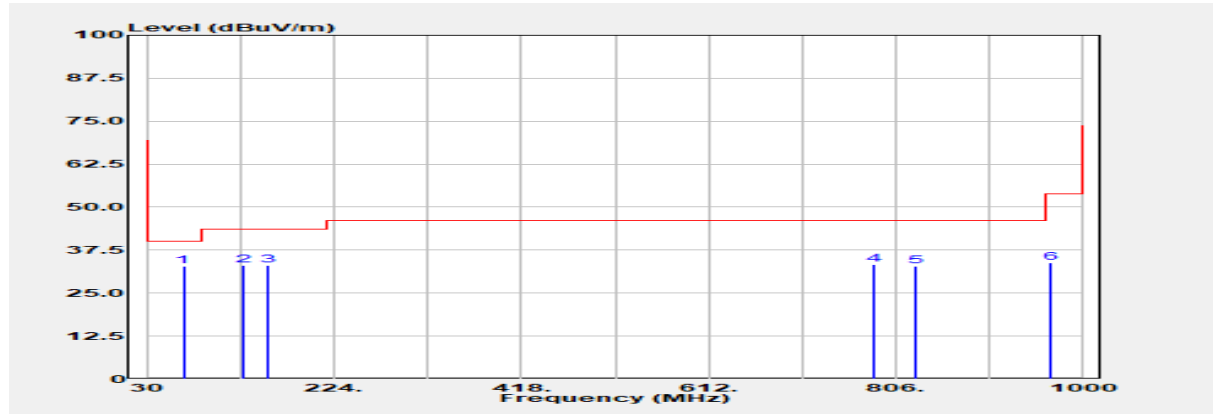
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
67.830	Peak	47.36	-14.56	32.80	40.00	-7.20
130.880	Peak	46.81	-13.73	33.08	43.50	-10.42
156.100	Peak	45.09	-12.07	33.02	43.50	-10.48
783.690	Peak	32.35	0.93	33.28	46.00	-12.72
825.400	Peak	31.43	1.52	32.95	46.00	-13.05
967.020	Peak	30.10	3.81	33.90	54.00	-20.10

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www.sgs.com.tw

Member of SGS Group

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-13

Test Frequency :2442 MHz

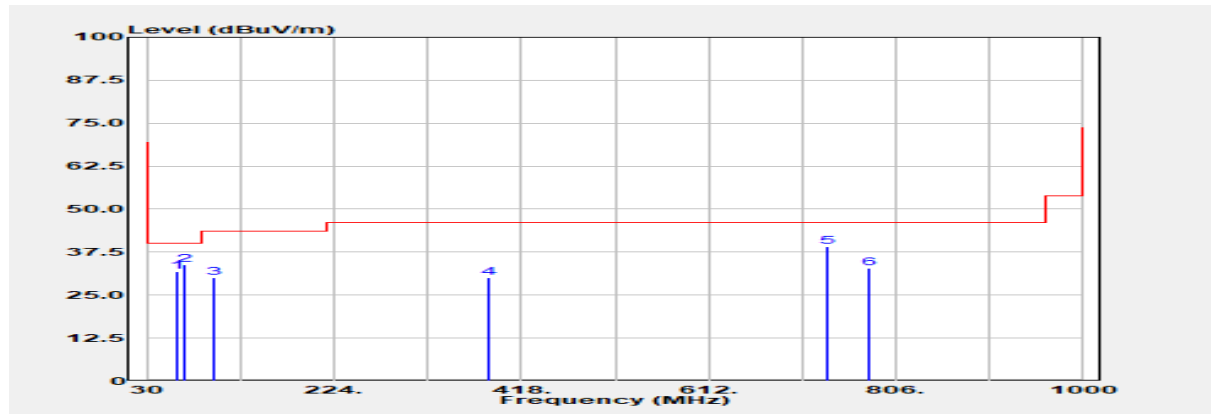
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.010	Peak	45.64	-13.82	31.82	40.00	-8.18
69.770	Peak	49.13	-15.26	33.87	40.00	-6.13
99.840	Peak	47.16	-17.19	29.97	43.50	-13.53
384.050	Peak	38.65	-8.62	30.03	46.00	-15.97
735.190	Peak	39.51	-0.36	39.15	46.00	-6.85
777.870	Peak	32.03	0.83	32.87	46.00	-13.13

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-13

Test Frequency :2442 MHz

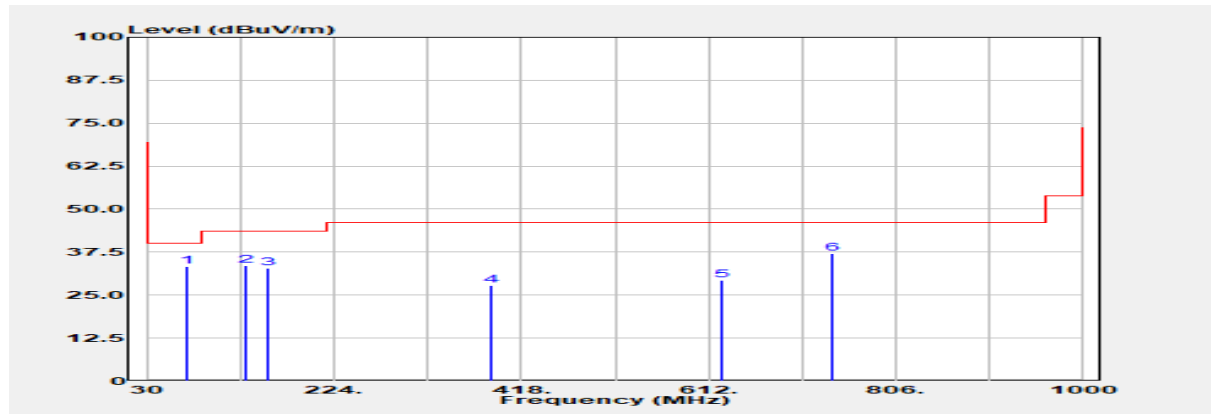
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
70.740	Peak	48.63	-15.26	33.38	40.00	-6.62
131.850	Peak	47.32	-13.68	33.63	43.50	-9.87
156.100	Peak	45.01	-12.07	32.94	43.50	-10.56
387.930	Peak	36.36	-8.46	27.90	46.00	-18.10
625.580	Peak	31.23	-1.99	29.24	46.00	-16.76
740.040	Peak	37.57	-0.57	37.00	46.00	-9.00

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

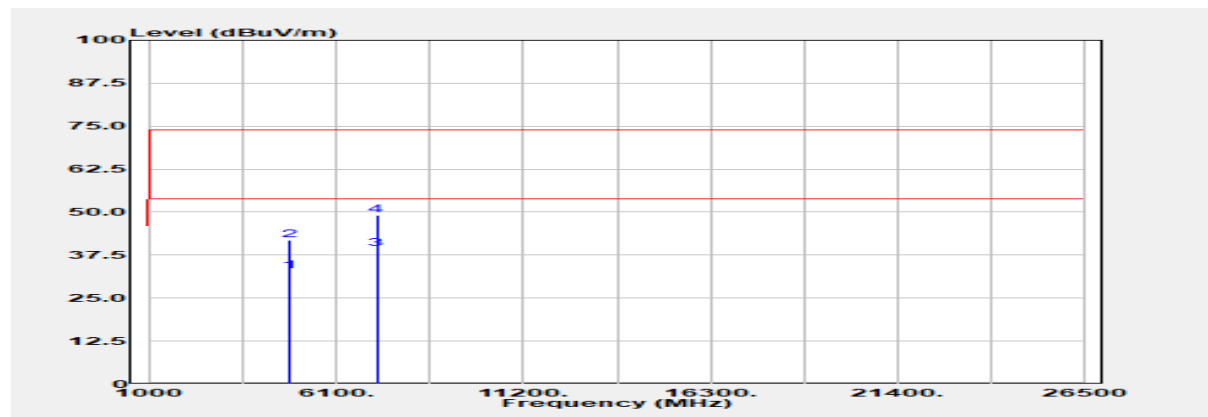
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	20.47	12.35	32.82	54.00	-21.18
4804.000	Peak	29.46	12.35	41.81	74.00	-32.19
7206.000	Average	19.47	19.76	39.23	54.00	-14.77
7206.000	Peak	29.48	19.76	49.23	74.00	-24.77

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

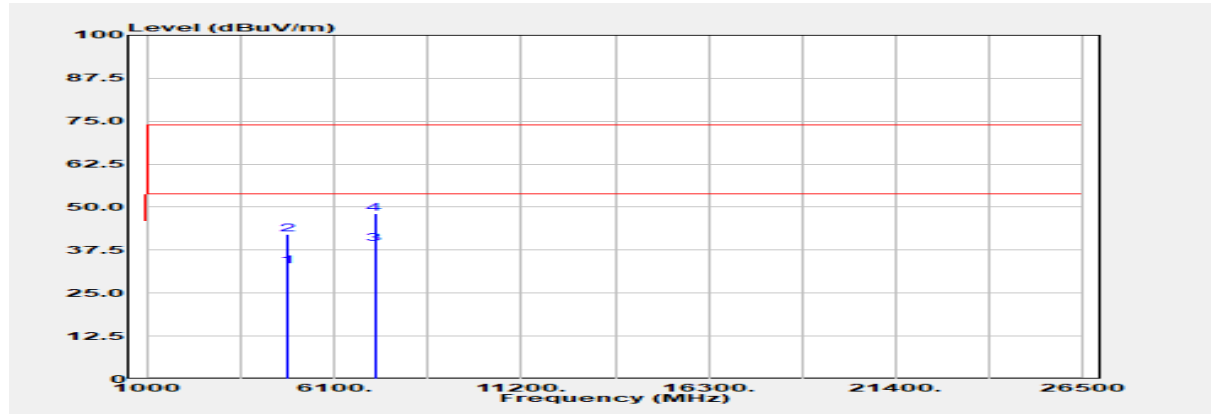
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	20.48	12.35	32.83	54.00	-21.17
4804.000	Peak	29.76	12.35	42.11	74.00	-31.89
7206.000	Average	19.47	19.76	39.22	54.00	-14.78
7206.000	Peak	28.31	19.76	48.06	74.00	-25.94

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2442 MHz

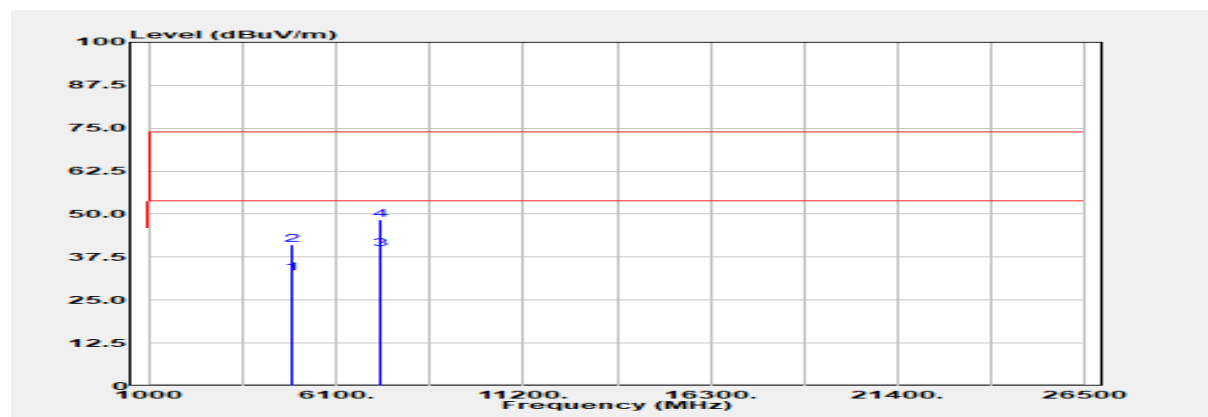
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	20.40	12.53	32.93	54.00	-21.07
4884.000	Peak	28.55	12.53	41.07	74.00	-32.93
7326.000	Average	19.22	20.69	39.91	54.00	-14.09
7326.000	Peak	27.76	20.69	48.45	74.00	-25.55

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2442 MHz

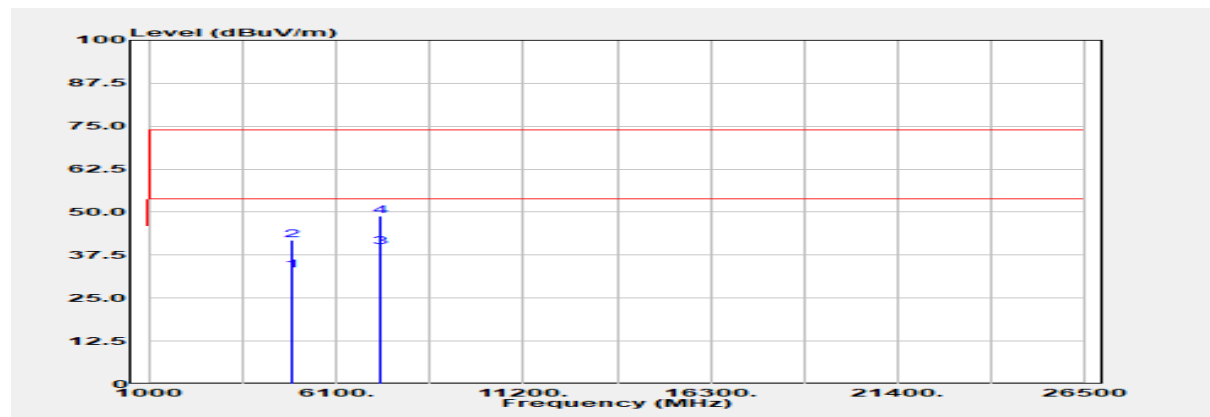
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	20.54	12.53	33.06	54.00	-20.94
4884.000	Peak	29.38	12.53	41.90	74.00	-32.10
7326.000	Average	19.11	20.69	39.81	54.00	-14.19
7326.000	Peak	28.21	20.69	48.90	74.00	-25.10

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

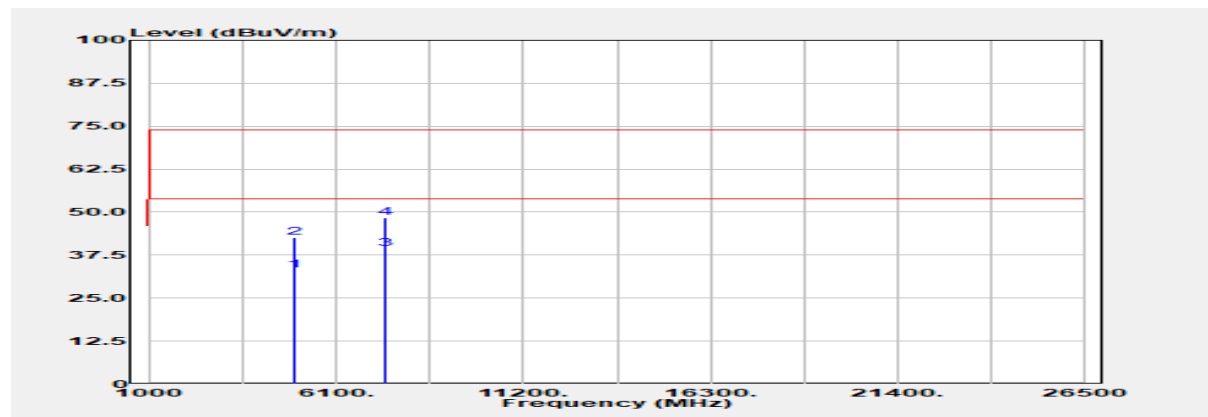
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	20.71	12.49	33.19	54.00	-20.81
4960.000	Peak	30.07	12.49	42.55	74.00	-31.45
7440.000	Average	18.65	20.58	39.23	54.00	-14.77
7440.000	Peak	27.70	20.58	48.28	74.00	-25.72

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

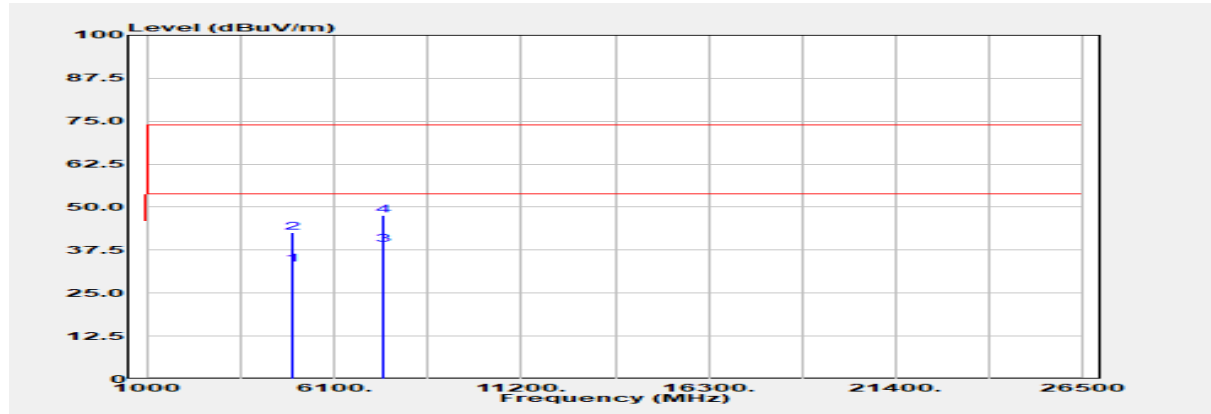
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	20.91	12.49	33.40	54.00	-20.60
4960.000	Peak	30.07	12.49	42.55	74.00	-31.45
7440.000	Average	18.62	20.58	39.20	54.00	-14.80
7440.000	Peak	27.02	20.58	47.60	74.00	-26.40

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

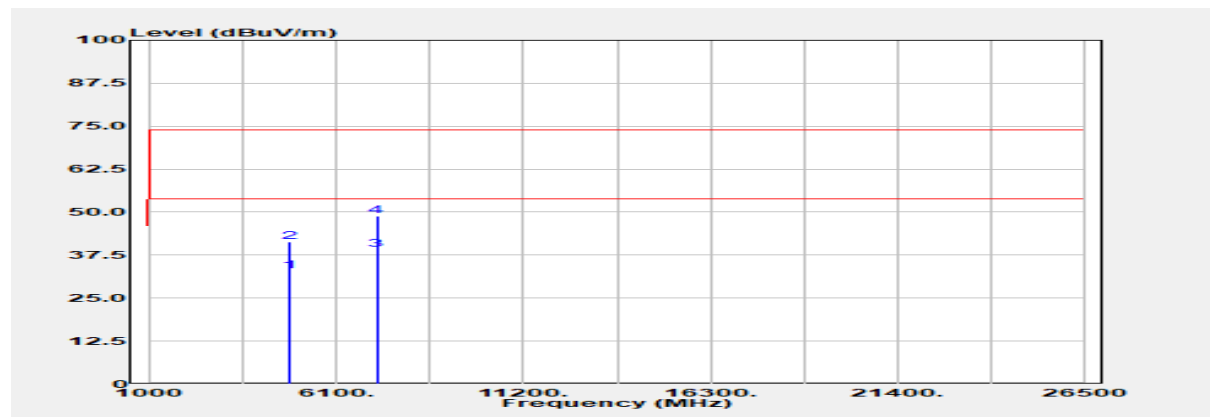
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	20.36	12.35	32.71	54.00	-21.29
4804.000	Peak	29.06	12.35	41.41	74.00	-32.59
7206.000	Average	19.33	19.76	39.08	54.00	-14.92
7206.000	Peak	29.21	19.76	48.96	74.00	-25.04

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

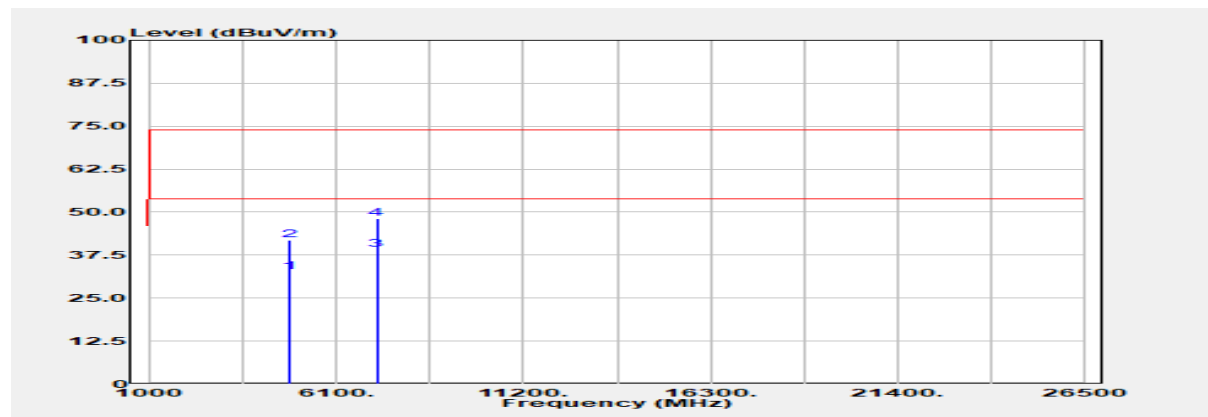
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



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	Average	20.35	12.35	32.70	54.00	-21.30
4804.000	Peak	29.53	12.35	41.88	74.00	-32.12
7206.000	Average	19.39	19.76	39.15	54.00	-14.85
7206.000	Peak	28.37	19.76	48.13	74.00	-25.87

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2442 MHz

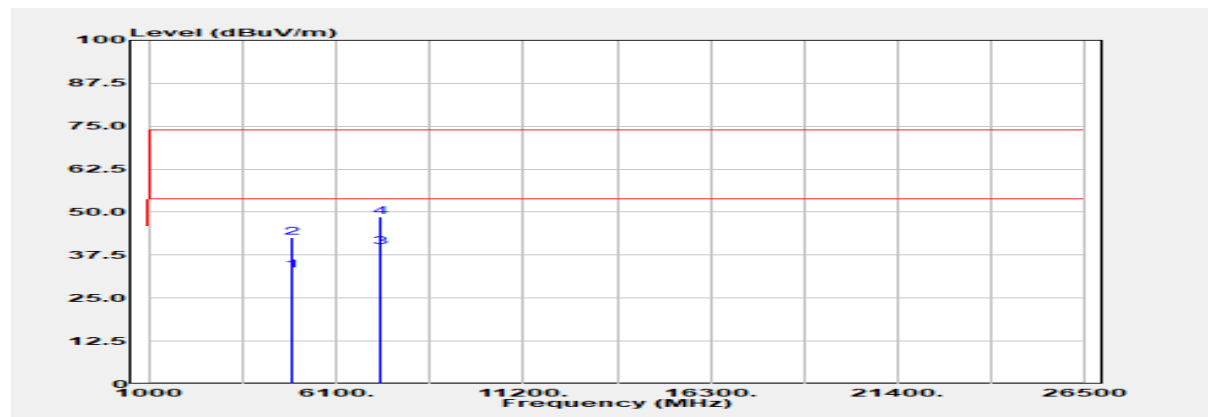
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	20.53	12.53	33.06	54.00	-20.94
4884.000	Peak	30.03	12.53	42.55	74.00	-31.45
7326.000	Average	19.06	20.69	39.75	54.00	-14.25
7326.000	Peak	28.00	20.69	48.69	74.00	-25.31

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台灣檢驗科技股份有限公司

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Member of SGS Group

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2442 MHz

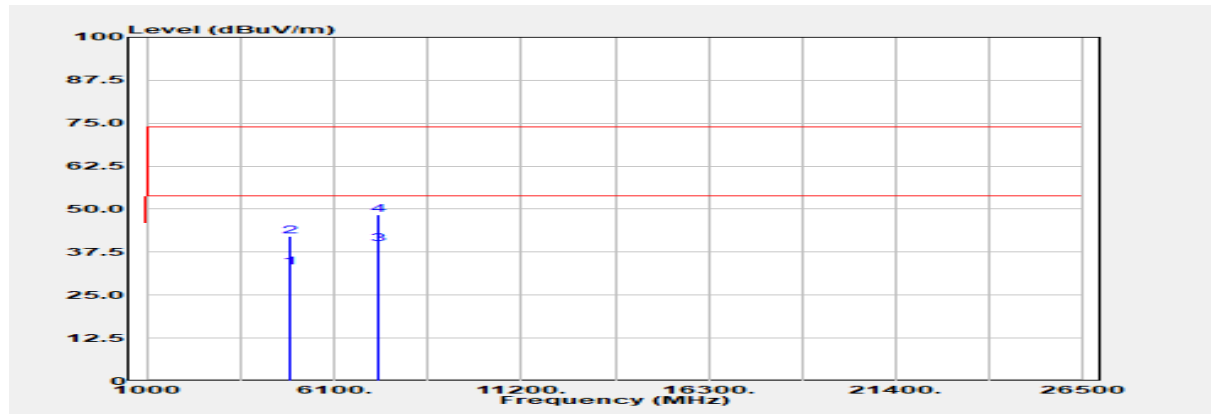
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	20.43	12.53	32.96	54.00	-21.04
4884.000	Peak	29.67	12.53	42.19	74.00	-31.81
7326.000	Average	19.15	20.69	39.84	54.00	-14.16
7326.000	Peak	27.63	20.69	48.32	74.00	-25.68

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

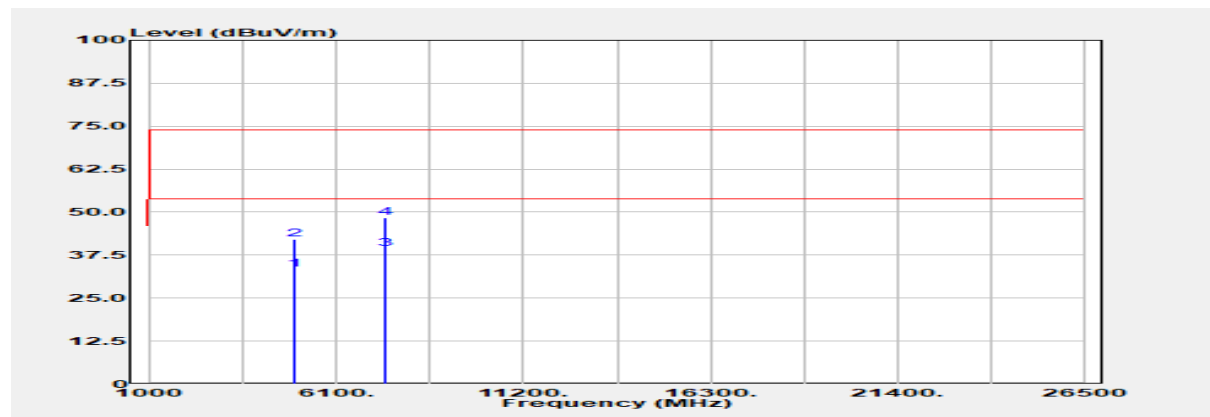
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	20.81	12.49	33.29	54.00	-20.71
4960.000	Peak	29.51	12.49	42.00	74.00	-32.00
7440.000	Average	18.70	20.58	39.28	54.00	-14.72
7440.000	Peak	27.76	20.58	48.34	74.00	-25.66

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

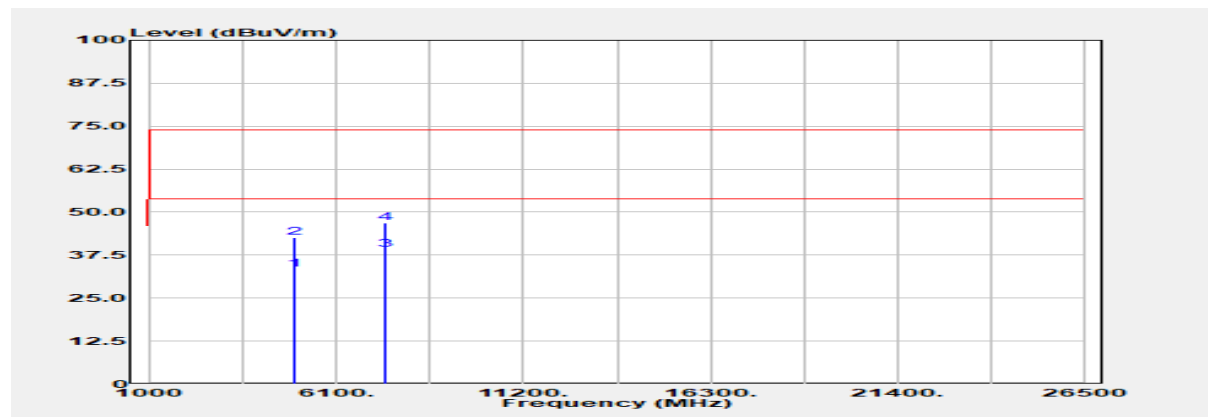
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	20.92	12.49	33.41	54.00	-20.59
4960.000	Peak	30.05	12.49	42.54	74.00	-31.46
7440.000	Average	18.52	20.58	39.10	54.00	-14.90
7440.000	Peak	26.40	20.58	46.98	74.00	-27.02

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ANT1(dipole)

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-13

Test Frequency :2442 MHz

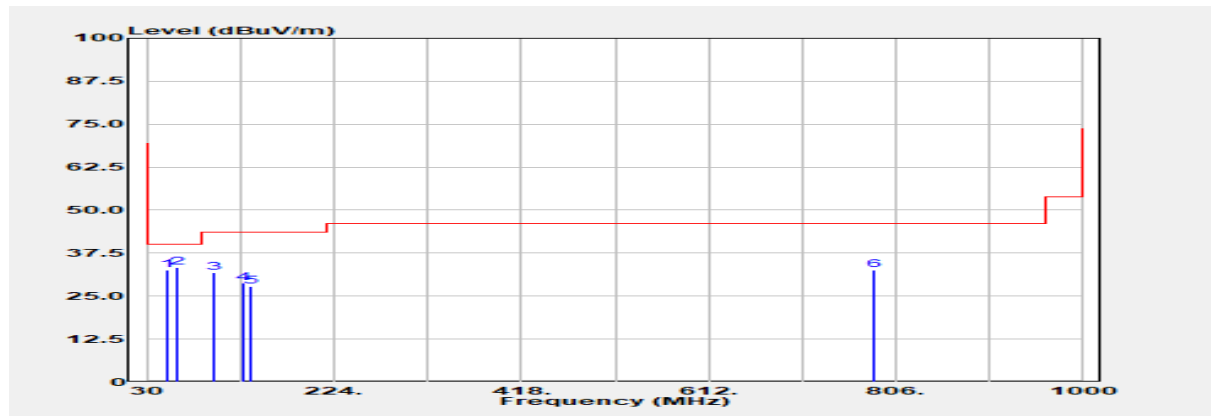
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
50.370	Peak	45.18	-12.72	32.46	40.00	-7.54
62.010	Peak	47.21	-13.82	33.39	40.00	-6.61
99.840	Peak	49.12	-17.19	31.93	43.50	-11.57
130.880	Peak	42.56	-13.73	28.83	43.50	-14.67
136.700	Peak	40.82	-13.05	27.77	43.50	-15.73
783.690	Peak	31.62	0.93	32.56	46.00	-13.44

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-13

Test Frequency :2442 MHz

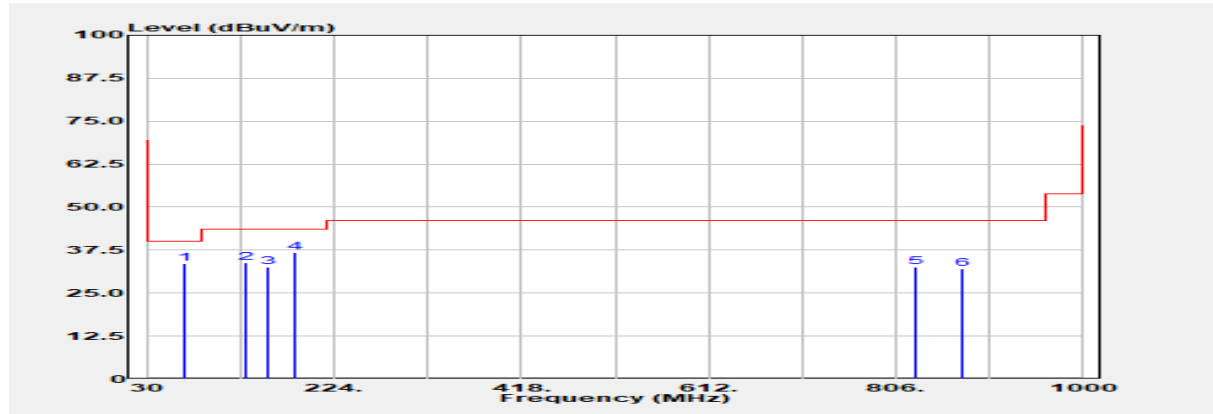
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
68.800	Peak	48.64	-15.05	33.59	40.00	-6.41
131.850	Peak	47.59	-13.68	33.90	43.50	-9.60
156.100	Peak	44.70	-12.07	32.63	43.50	-10.87
184.230	Peak	51.13	-14.18	36.95	43.50	-6.55
825.400	Peak	31.15	1.52	32.66	46.00	-13.34
874.870	Peak	29.80	2.34	32.14	46.00	-13.86

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-13

Test Frequency :2442 MHz

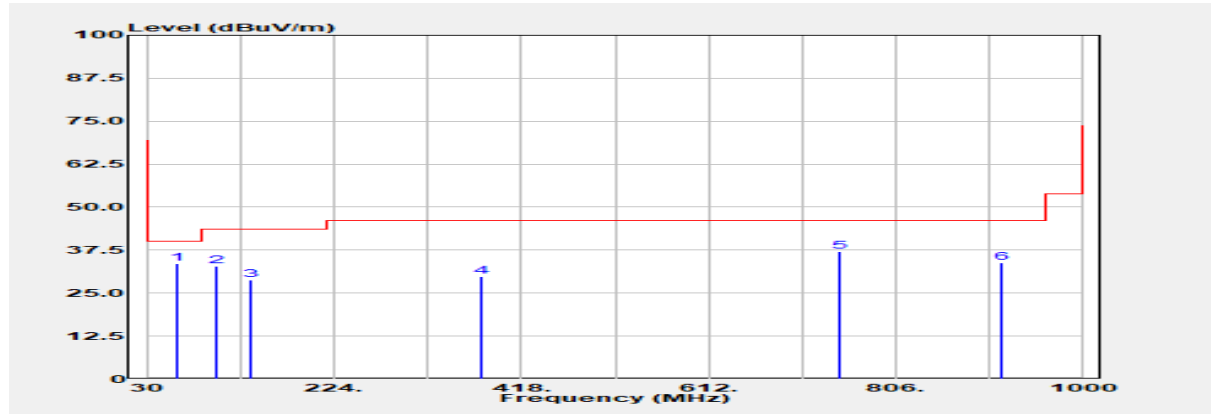
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.040	Peak	47.26	-13.66	33.61	40.00	-6.39
101.780	Peak	49.80	-16.87	32.93	43.50	-10.57
136.700	Peak	41.94	-13.05	28.89	43.50	-14.61
377.260	Peak	38.76	-8.94	29.82	46.00	-16.18
746.830	Peak	37.72	-0.62	37.11	46.00	-8.89
915.610	Peak	30.42	3.29	33.71	46.00	-12.29

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-13

Test Frequency :2442 MHz

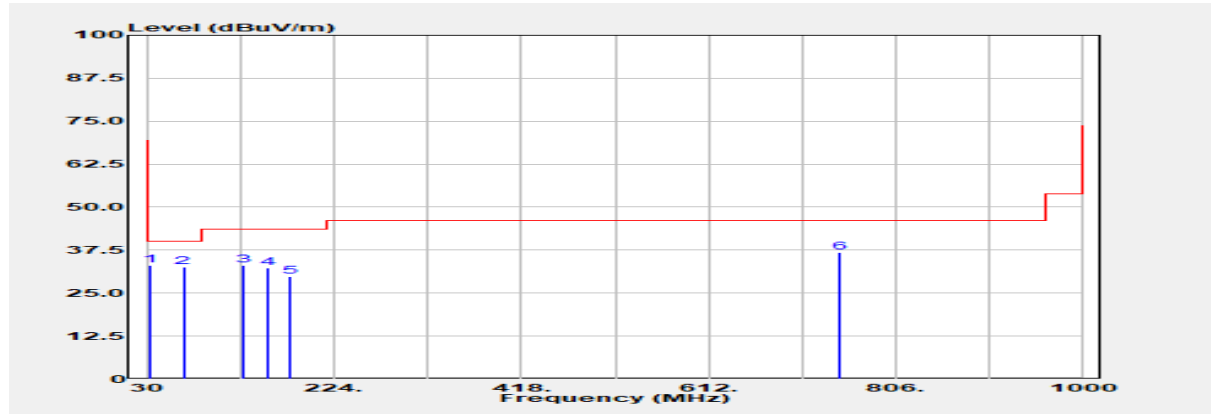
Temp./Humi. :22.1/72

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	47.70	-14.68	33.03	40.00	-6.97
67.830	Peak	47.11	-14.56	32.54	40.00	-7.46
130.880	Peak	46.87	-13.73	33.14	43.50	-10.36
155.130	Peak	44.27	-11.89	32.38	43.50	-11.12
178.410	Peak	43.44	-13.54	29.90	43.50	-13.60
746.830	Peak	37.46	-0.62	36.84	46.00	-9.16

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

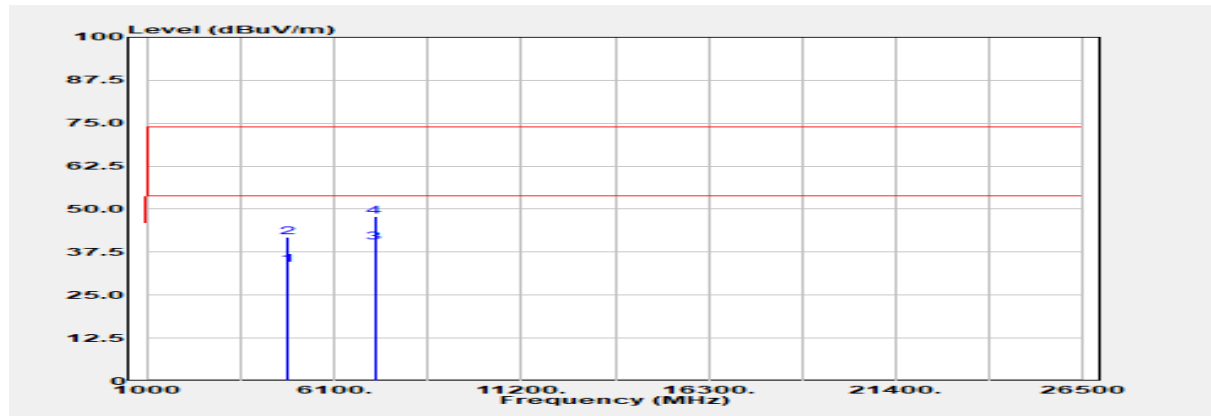
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	21.61	12.35	33.96	54.00	-20.04
4804.000	Peak	29.42	12.35	41.77	74.00	-32.23
7206.000	Average	20.55	19.76	40.30	54.00	-13.70
7206.000	Peak	28.20	19.76	47.96	74.00	-26.04

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2402 MHz

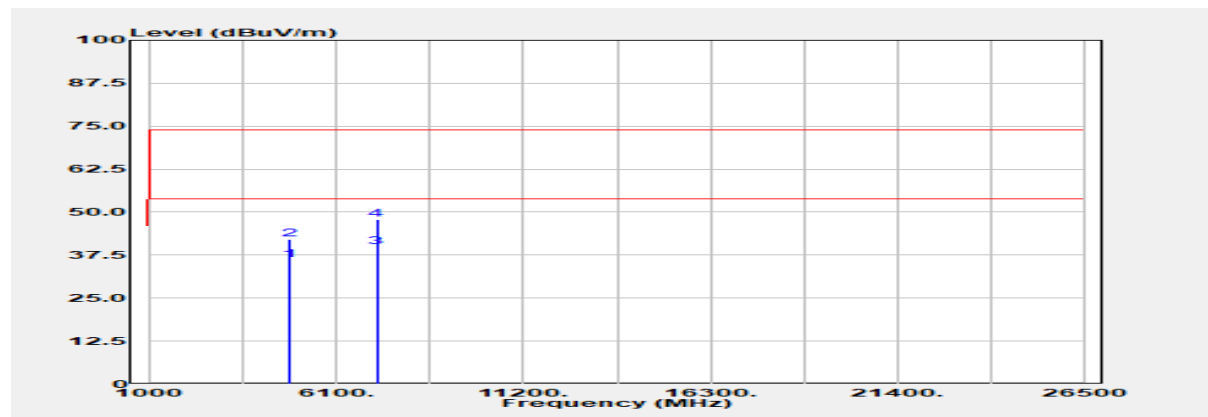
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	23.81	12.35	36.16	54.00	-17.84
4804.000	Peak	29.79	12.35	42.14	74.00	-31.86
7206.000	Average	20.04	19.76	39.79	54.00	-14.21
7206.000	Peak	28.16	19.76	47.92	74.00	-26.08

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2442 MHz

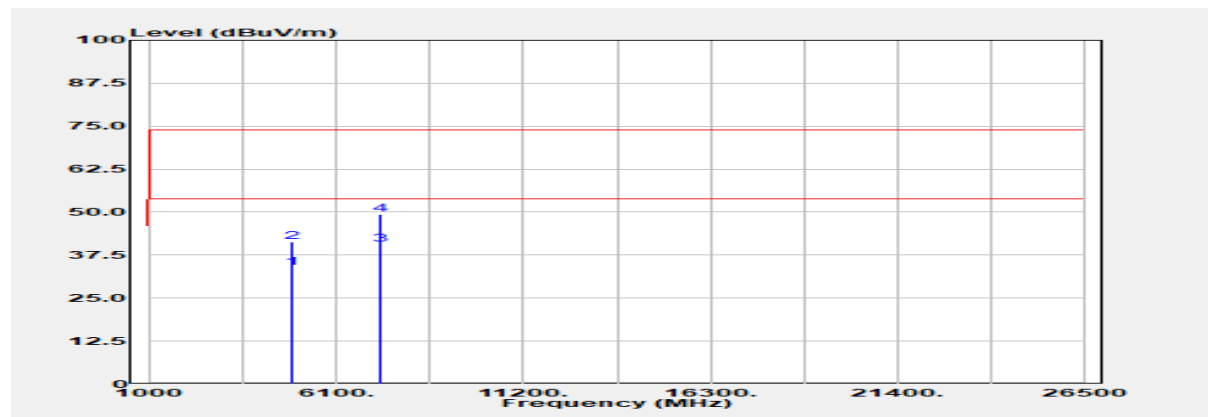
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	21.28	12.53	33.81	54.00	-20.19
4884.000	Peak	28.72	12.53	41.25	74.00	-32.75
7326.000	Average	19.96	20.69	40.65	54.00	-13.35
7326.000	Peak	28.56	20.69	49.25	74.00	-24.75

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Member of SGS Group

Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2442 MHz

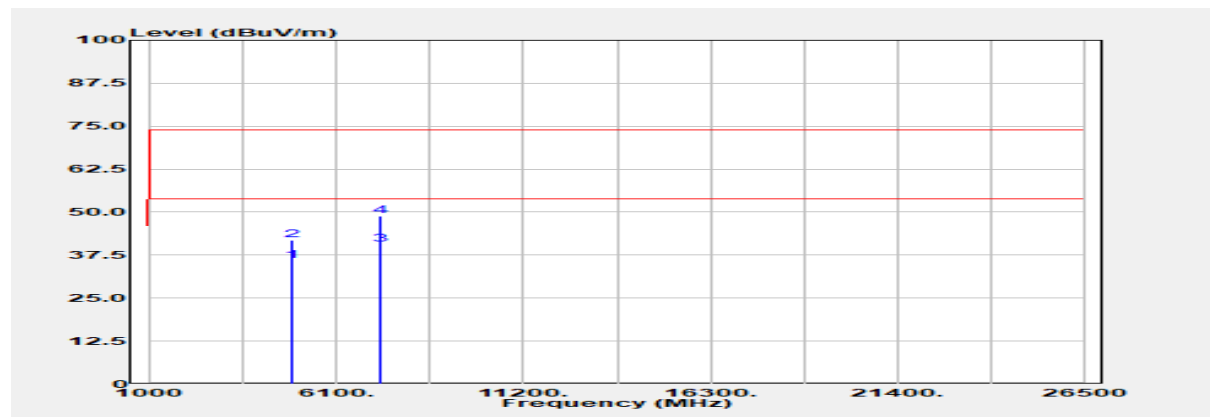
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	23.24	12.53	35.77	54.00	-18.23
4884.000	Peak	29.44	12.53	41.96	74.00	-32.04
7326.000	Average	19.79	20.69	40.48	54.00	-13.52
7326.000	Peak	28.11	20.69	48.80	74.00	-25.20

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

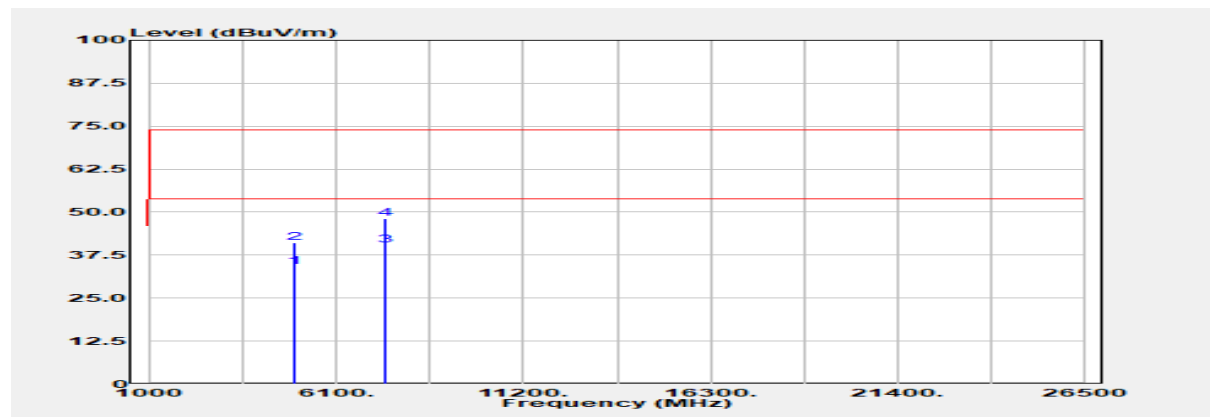
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	21.51	12.49	33.99	54.00	-20.01
4960.000	Peak	28.74	12.49	41.22	74.00	-32.78
7440.000	Average	19.70	20.58	40.28	54.00	-13.72
7440.000	Peak	27.58	20.58	48.16	74.00	-25.84

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2023-02-12

Test Frequency :2480 MHz

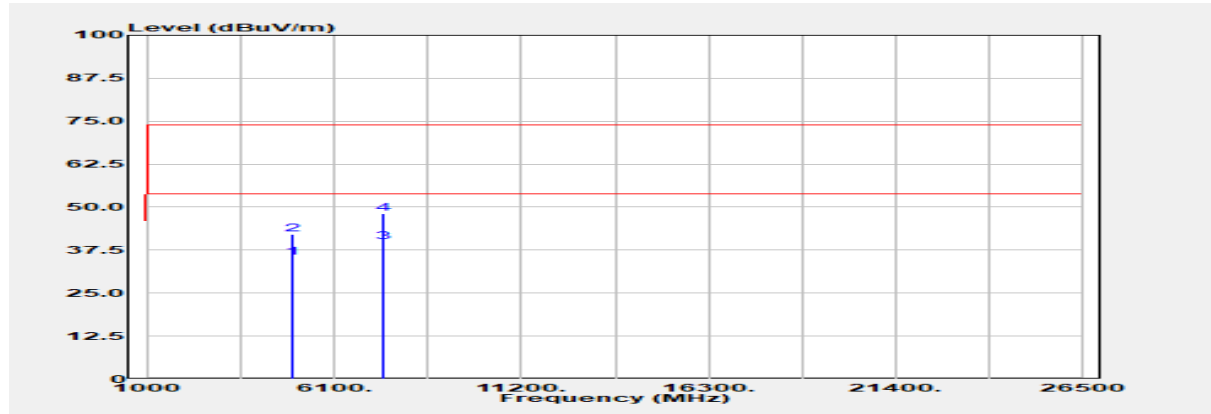
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	22.85	12.49	35.34	54.00	-18.66
4960.000	Peak	29.73	12.49	42.22	74.00	-31.78
7440.000	Average	19.19	20.58	39.77	54.00	-14.23
7440.000	Peak	27.46	20.58	48.04	74.00	-25.96

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

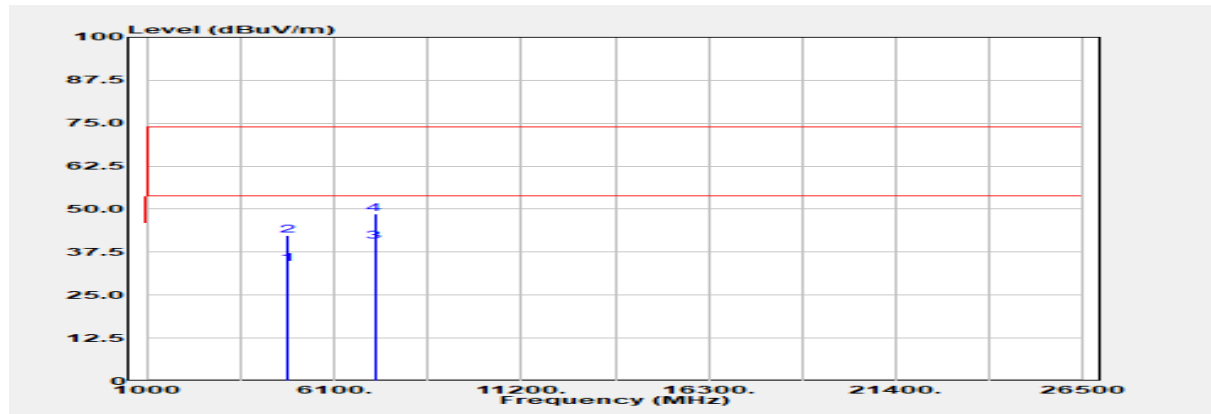
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	21.72	12.35	34.07	54.00	-19.93
4804.000	Peak	29.96	12.35	42.31	74.00	-31.69
7206.000	Average	20.87	19.76	40.63	54.00	-13.37
7206.000	Peak	28.84	19.76	48.60	74.00	-25.40

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2402 MHz

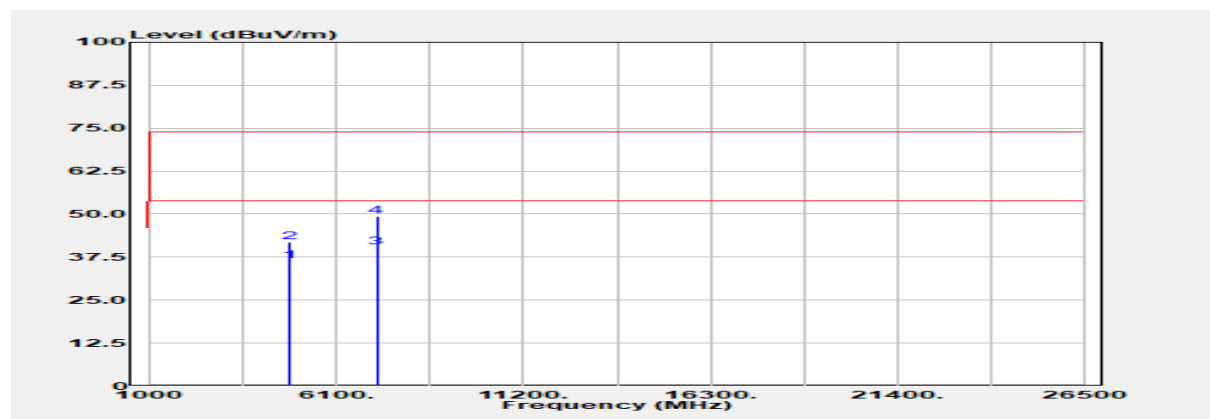
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	24.09	12.35	36.45	54.00	-17.55
4804.000	Peak	29.60	12.35	41.95	74.00	-32.05
7206.000	Average	20.48	19.76	40.24	54.00	-13.76
7206.000	Peak	29.66	19.76	49.41	74.00	-24.59

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2442 MHz

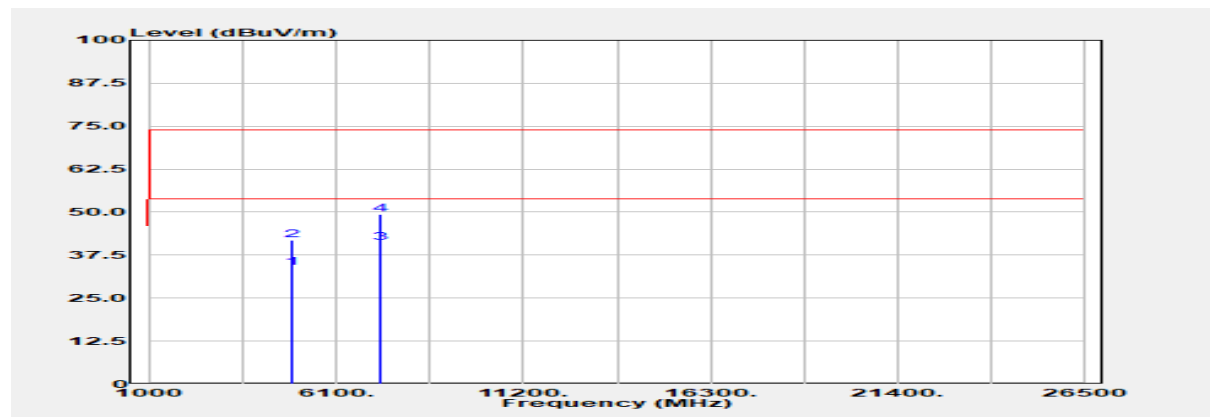
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	21.42	12.53	33.94	54.00	-20.06
4884.000	Peak	29.33	12.53	41.85	74.00	-32.15
7326.000	Average	20.45	20.69	41.15	54.00	-12.85
7326.000	Peak	28.58	20.69	49.27	74.00	-24.73

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2442 MHz

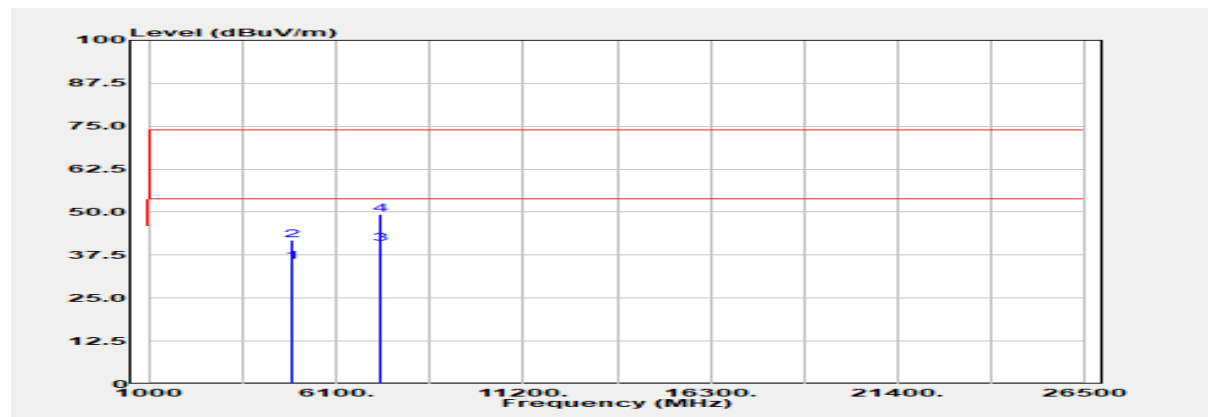
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	23.04	12.53	35.57	54.00	-18.43
4884.000	Peak	29.44	12.53	41.97	74.00	-32.03
7326.000	Average	20.15	20.69	40.84	54.00	-13.16
7326.000	Peak	28.70	20.69	49.39	74.00	-24.61

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

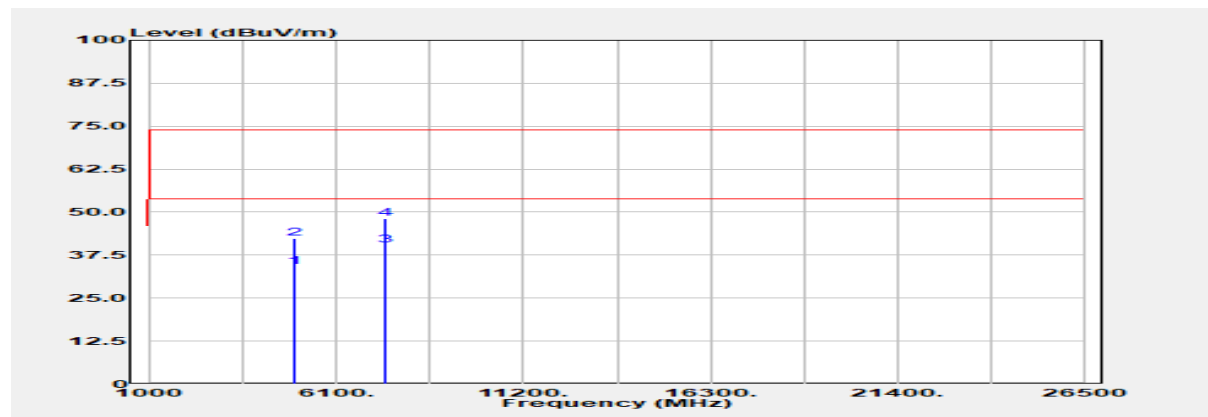
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	21.63	12.49	34.11	54.00	-19.89
4960.000	Peak	29.97	12.49	42.45	74.00	-31.55
7440.000	Average	19.80	20.58	40.38	54.00	-13.62
7440.000	Peak	27.52	20.58	48.10	74.00	-25.90

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Report Number :TERF2211002512E2

Test Site :SAC C

Operation Mode :BLE 2M

Test Date :2023-02-12

Test Frequency :2480 MHz

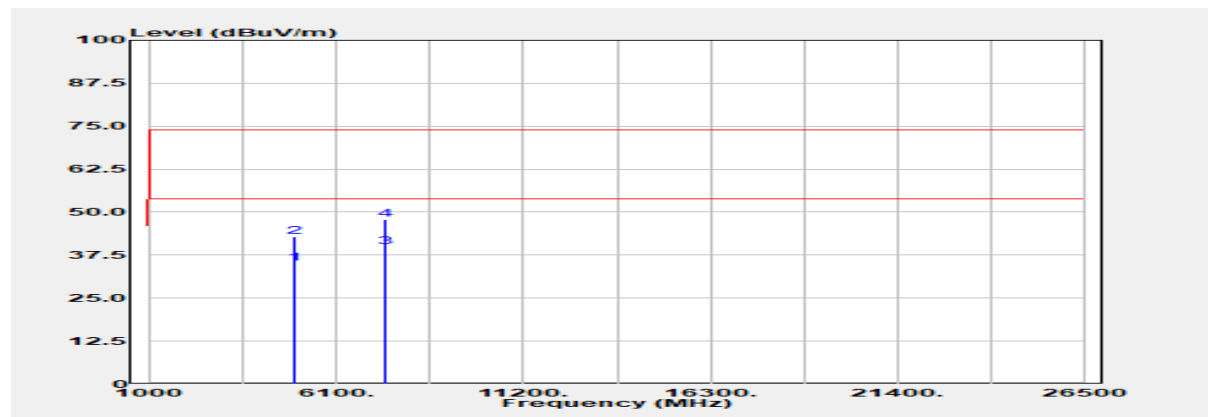
Temp./Humi. :21.6/68

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	22.53	12.49	35.01	54.00	-18.99
4960.000	Peak	30.44	12.49	42.92	74.00	-31.08
7440.000	Average	19.36	20.58	39.94	54.00	-14.06
7440.000	Peak	27.23	20.58	47.81	74.00	-26.19

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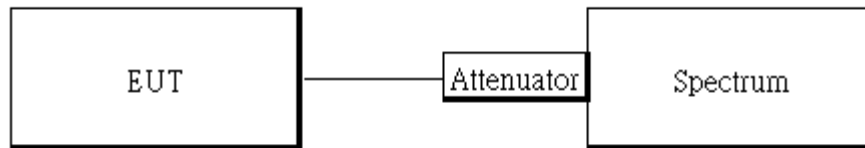
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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

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

12.2 Test Setup



12.3 Measurement Procedure:

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

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12.4 Measurement Result:

ANT0

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-0.500	8	PASS
2442	-0.580	8	PASS
2480	-0.720	8	PASS

NOTE: 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	-4.340	8	PASS
2442	-4.380	8	PASS
2480	-4.500	8	PASS

NOTE: cable loss as 10.8dB that offsets in the spectrum

ANT1

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-0.110	8	PASS
2442	-0.210	8	PASS
2480	-0.360	8	PASS

NOTE: 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	-4.020	8	PASS
2442	-4.060	8	PASS
2480	-4.160	8	PASS

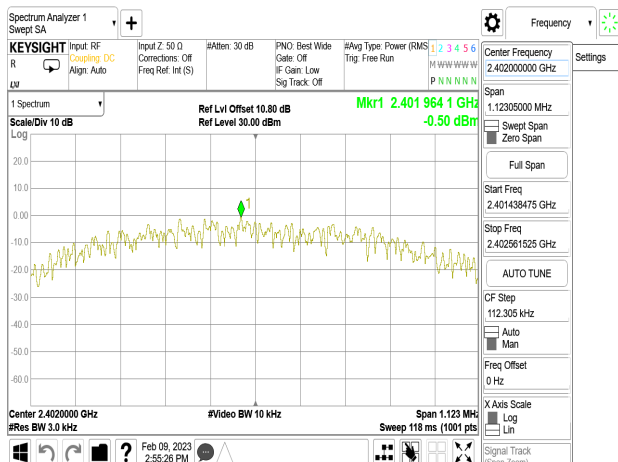
NOTE: cable loss as 10.8dB that offsets in the spectrum

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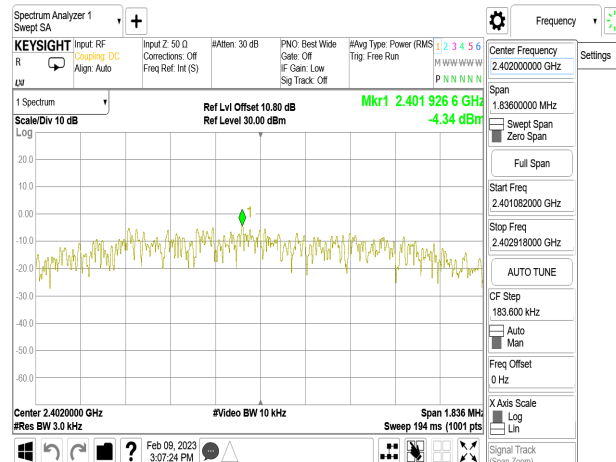
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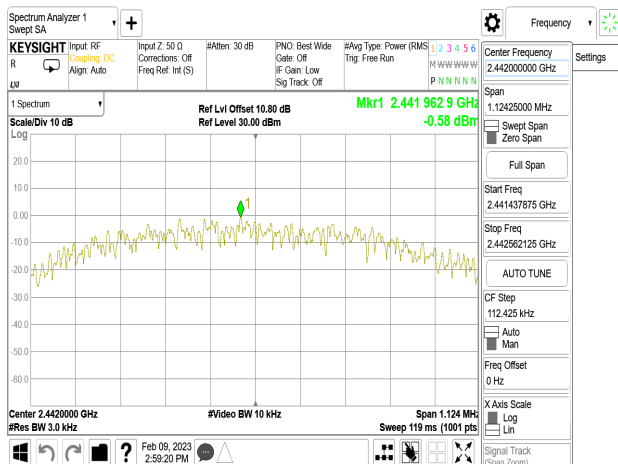
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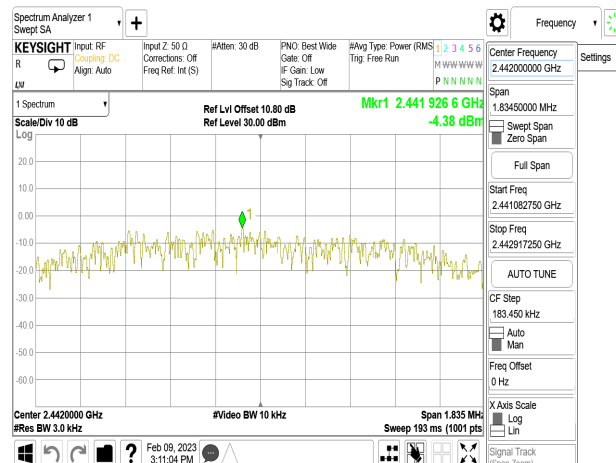
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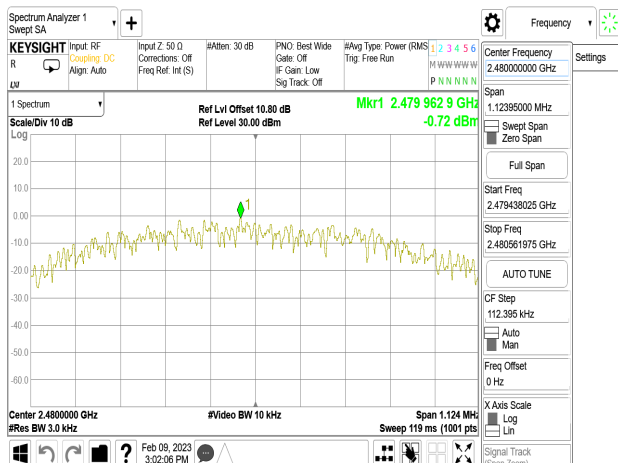
PSD_BLE 1M_MidCH20-2442MHz



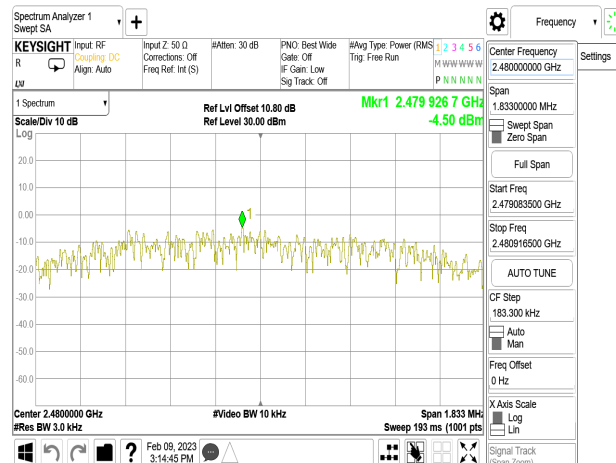
PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_HighCH39-2480MHz

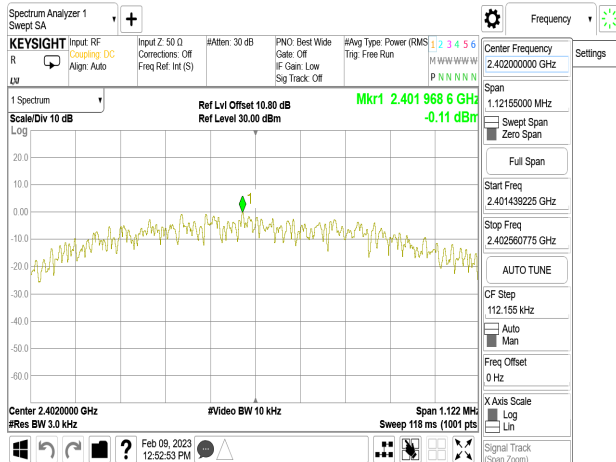


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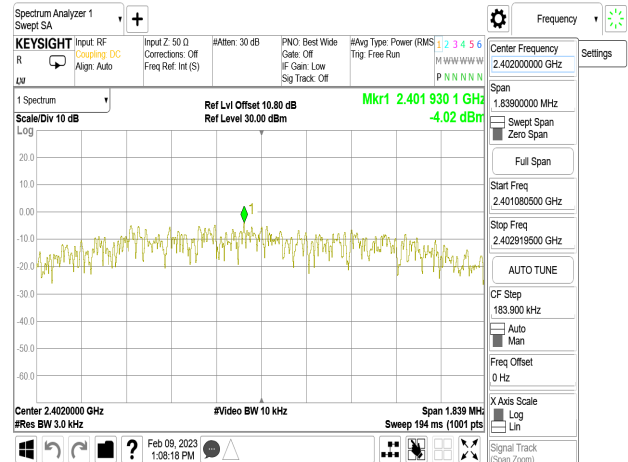
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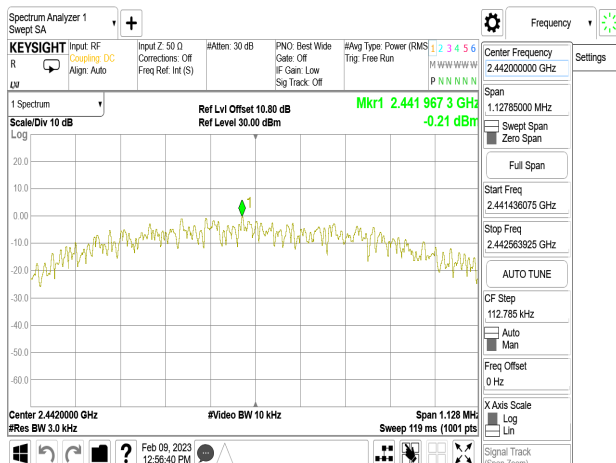
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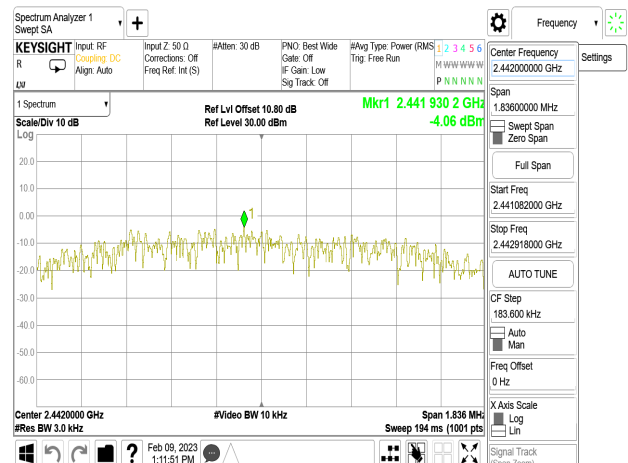
PSD_BLE 2M_LowCH00-2402MHz



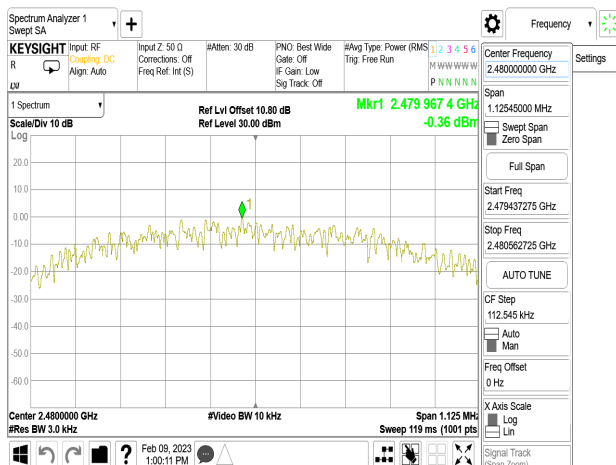
PSD_BLE 1M_MidCH20-2442MHz



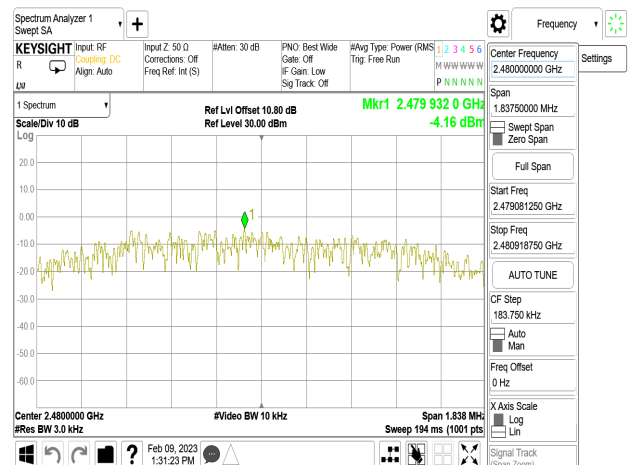
PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_HighCH39-2480MHz



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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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