

10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

10.1.1 Duty Cycle Correction Factor

According to 15. 35(c) and RSS-Gen §8.2, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

10.1.2 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

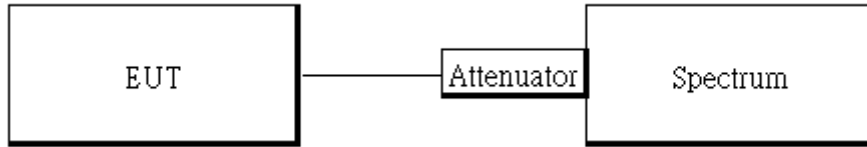
Note: The lower limit shall apply at the transition frequencies.

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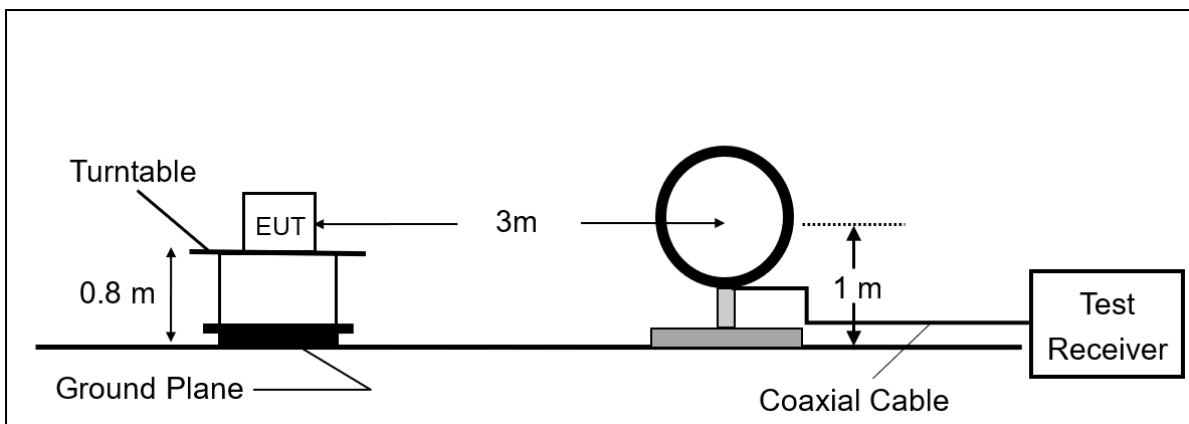
10.2 Test Setup

10.2.1 Duty Cycle Correction Factor

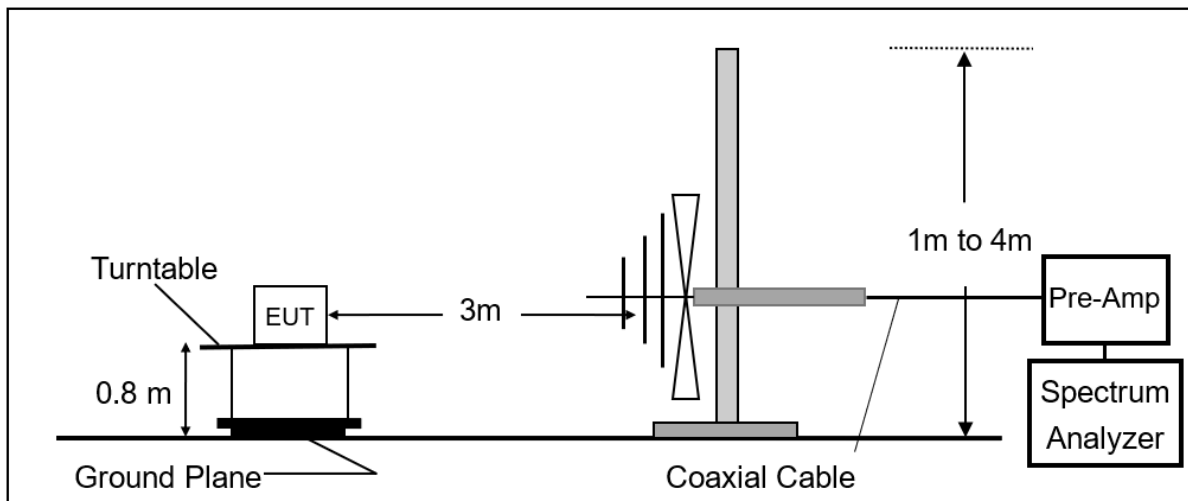


10.2.2 Radiated Emission

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



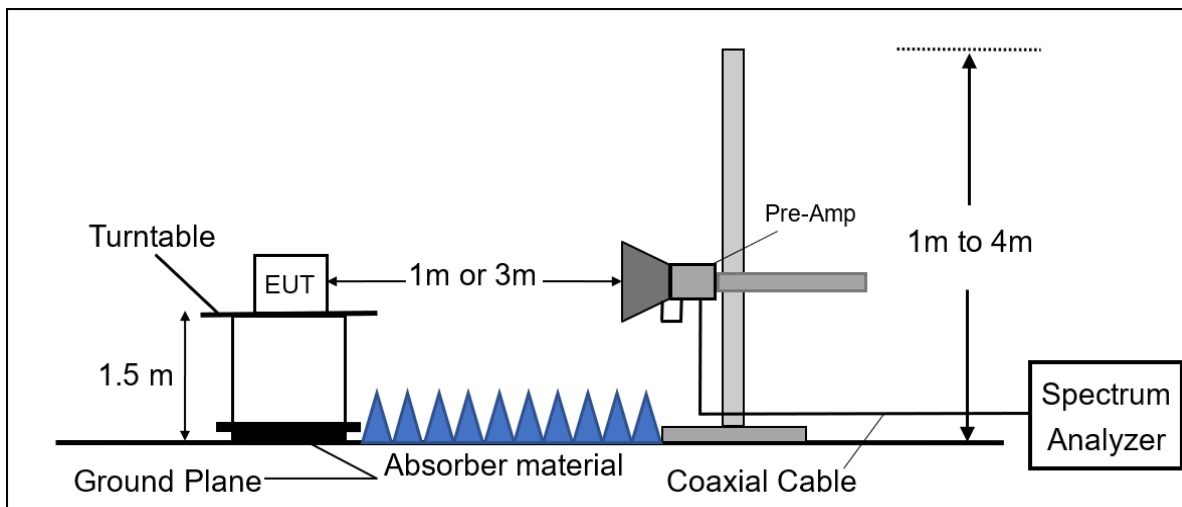
(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



10.3 Measurement Procedure

10.3.1 Duty Cycle Correction Factor

1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep=100ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

10.3.2 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
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. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
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.

10.4 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)

Average value(dBμV/m)=Peak Actual FS(dBμV/m)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) = $20 \log (T_{on}/100 \text{ ms})$

10.5 Test Results of Radiated Spurious Emissions form 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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10.6 Measurement Result:

10.6.1 Duty Cycle Correction Factor (normal mode)

BR

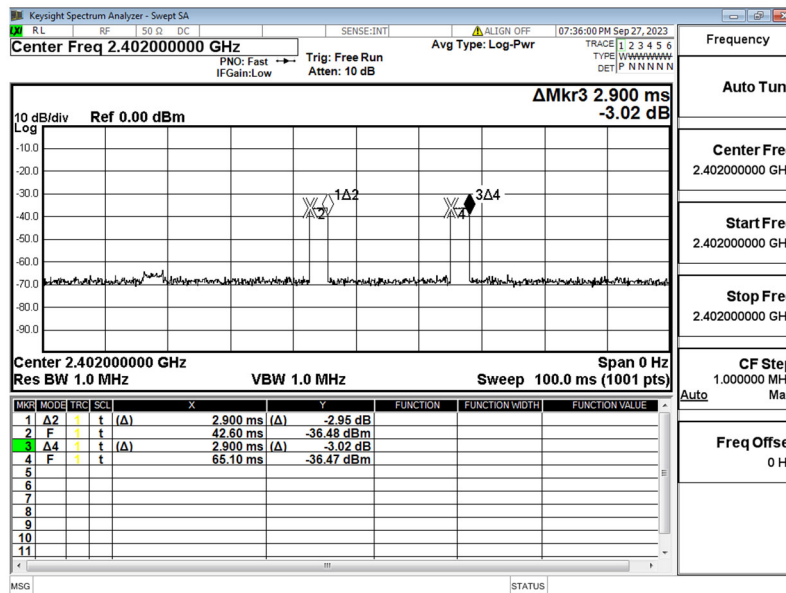
Time ON of 100ms:	5.800	ms
Duty Cycle=5.8ms / 100ms:	0.058	
Duty Cycle correction factor=20 LOG 0.058=	-24.73	dB

EDR

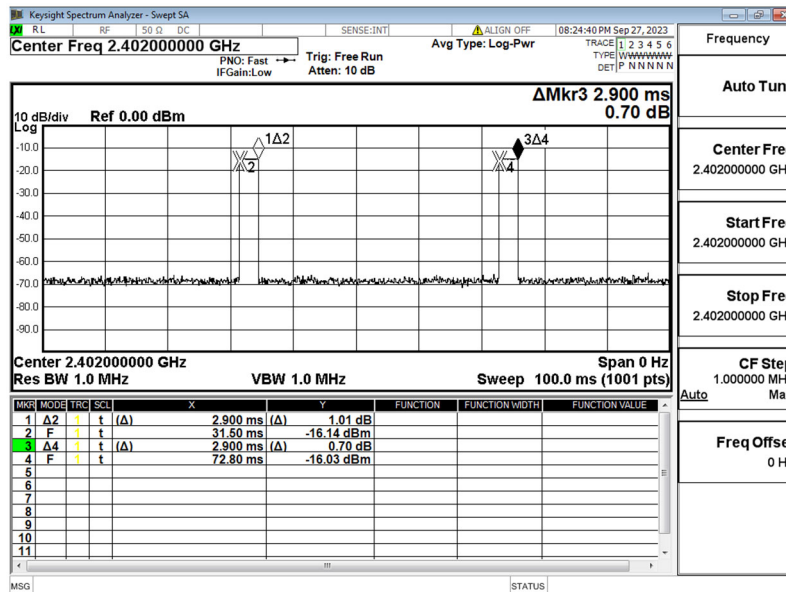
Time ON of 100ms:	5.800	ms
Duty Cycle=5.8ms / 100ms:	0.058	
Duty Cycle correction factor=20 LOG 0.058=	-24.73	dB

10.6.2 Duty Cycle test plot

BR



EDR



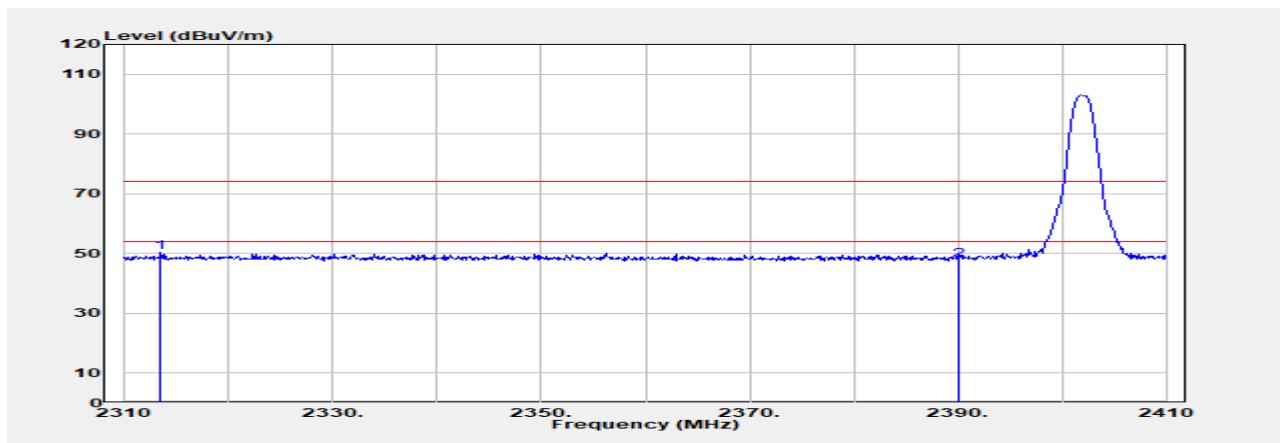
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10.6.3 Bandedge Result

Report Number	:TERF2309002385E2	Test Site	:SAC G Chamber
Operation Mode	:BR	Test Date	:2023-09-27
Test Frequency	:2402 MHz	Temp./Humi.	:22.2°C/60%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



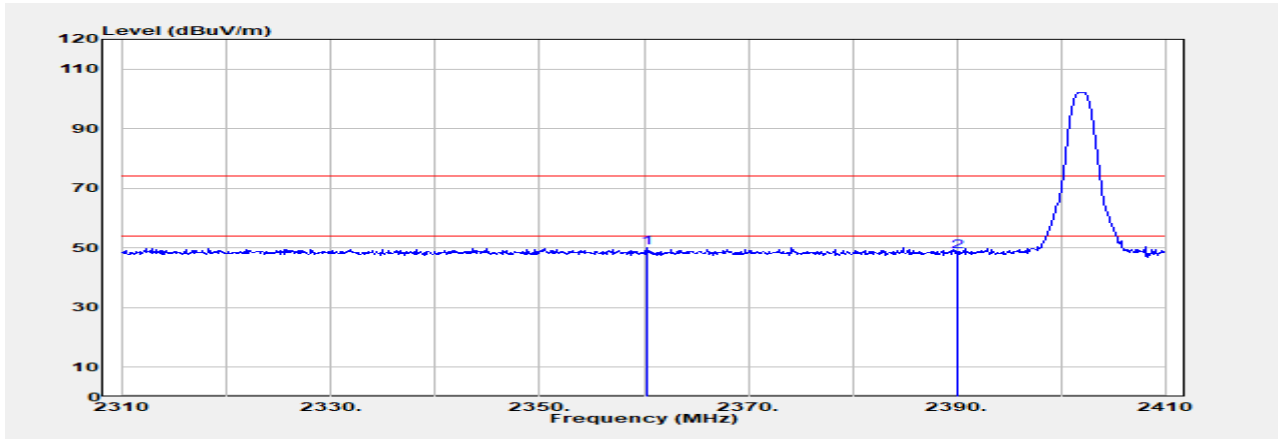
Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2313.400	Peak	53.54	-3.27	50.28	74.00	-23.72
2390.000	Peak	51.38	-3.51	47.87	74.00	-26.13
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2313.400	Average	50.28	-24.73	25.55	54.00	-28.45
2390.000	Average	47.87	-24.73	23.14	54.00	-30.86

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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2360.300	Peak	53.42	-3.36	50.06	74.00	-23.94
2390.000	Peak	52.35	-3.51	48.84	74.00	-25.16

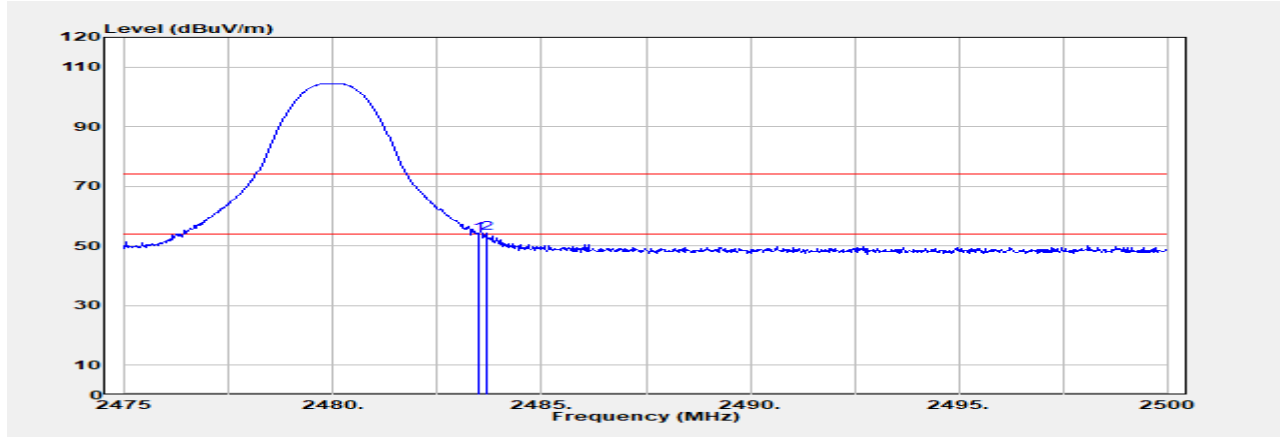
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2360.300	Average	50.06	-24.73	25.33	54.00	-28.67
2390.000	Average	48.84	-24.73	24.11	54.00	-29.89

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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	57.63	-3.54	54.09	74.00	-19.91
2483.675	Peak	57.85	-3.54	54.31	74.00	-19.69

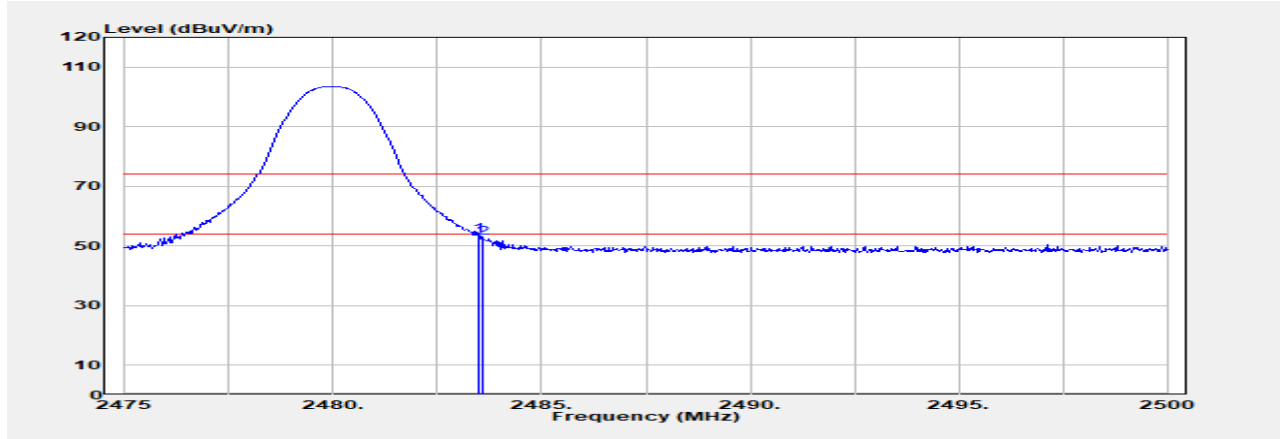
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	54.09	-24.73	29.36	54.00	-24.64
2483.675	Average	54.31	-24.73	29.58	54.00	-24.42

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Report Number :TERF2309002385E2	Test Site :SAC G Chamber
Operation Mode :BR	Test Date :2023-09-27
Test Frequency :2480 MHz	Temp./Humi. :22.2°C/60%
Test Mode :Bandedge	Antenna Pol. :Horizontal
EUT Pol :H Plane	Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	57.13	-3.54	53.58	74.00	-20.42
2483.600	Peak	56.11	-3.54	52.57	74.00	-21.43

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	53.58	-24.73	28.85	54.00	-25.15
2483.600	Average	52.57	-24.73	27.84	54.00	-26.16

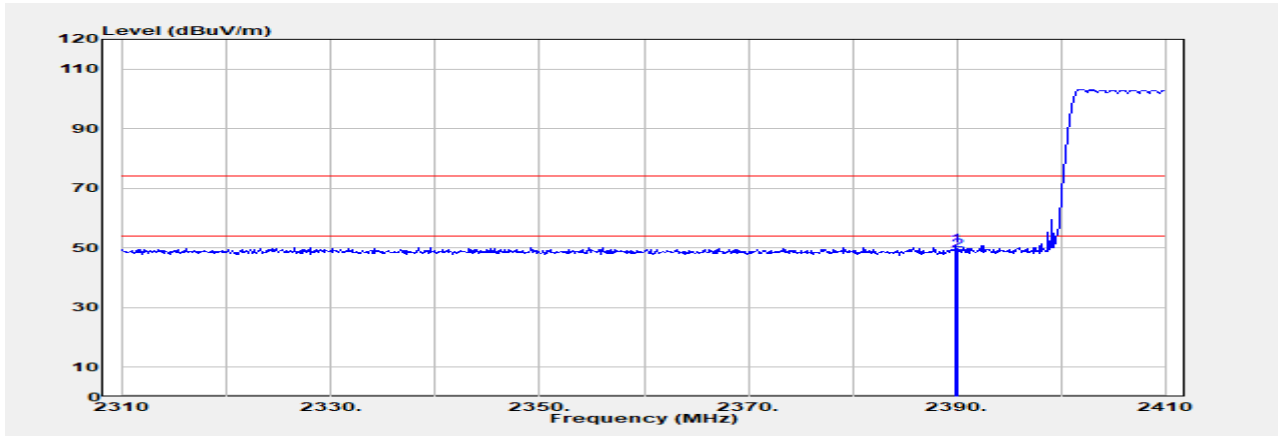
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Report Number :TERF2309002385E2
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 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.900	Peak	54.27	-3.51	50.77	74.00	-23.23
2390.000	Peak	52.46	-3.51	48.95	74.00	-25.05

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2389.900	Average	50.77	-24.73	26.04	54.00	-27.96
2390.000	Average	48.95	-24.73	24.22	54.00	-29.78

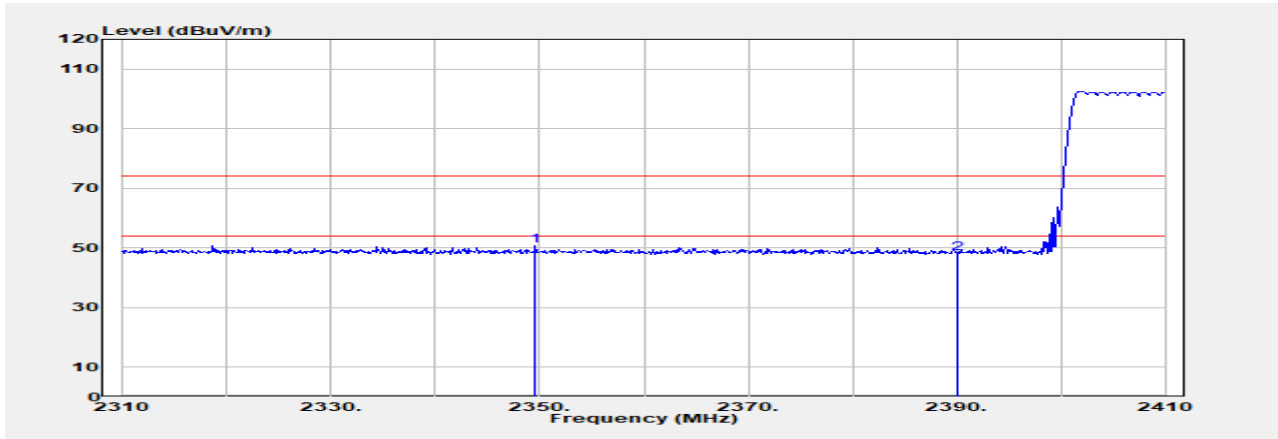
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 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



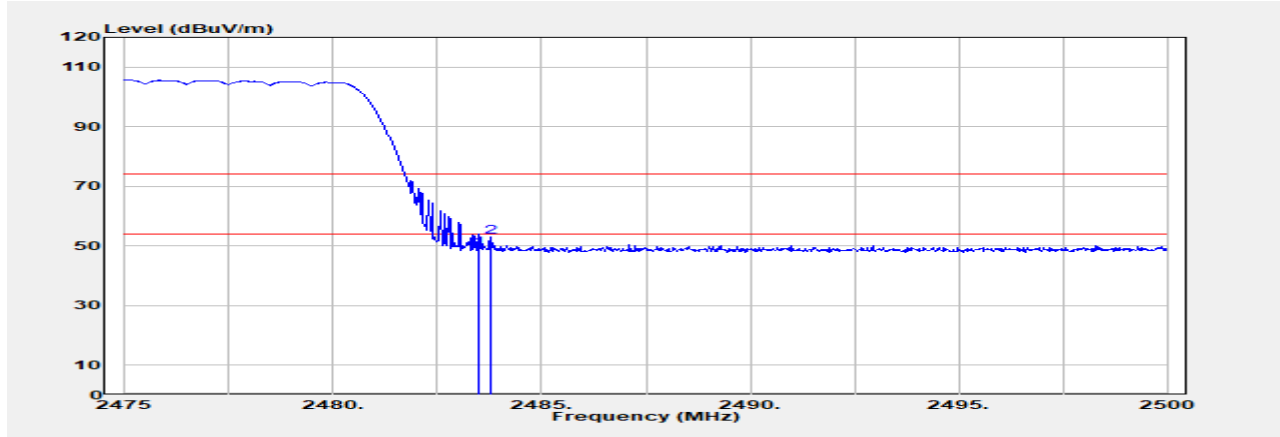
Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2349.600	Peak	54.02	-3.31	50.72	74.00	-23.28
2390.000	Peak	51.64	-3.51	48.13	74.00	-25.87

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2349.600	Average	50.72	-24.73	25.99	54.00	-28.01
2390.000	Average	48.13	-24.73	23.40	54.00	-30.60

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Report Number :TERF2309002385E2	Test Site :SAC G Chamber
Operation Mode :BR Hopping	Test Date :2023-09-27
Test Frequency :2480 MHz	Temp./Humi. :22.2°C/60%
Test Mode :Bandedge	Antenna Pol. :Vertical
EUT Pol :H Plane	Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	52.66	-3.54	49.12	74.00	-24.88
2483.775	Peak	56.62	-3.54	53.08	74.00	-20.92

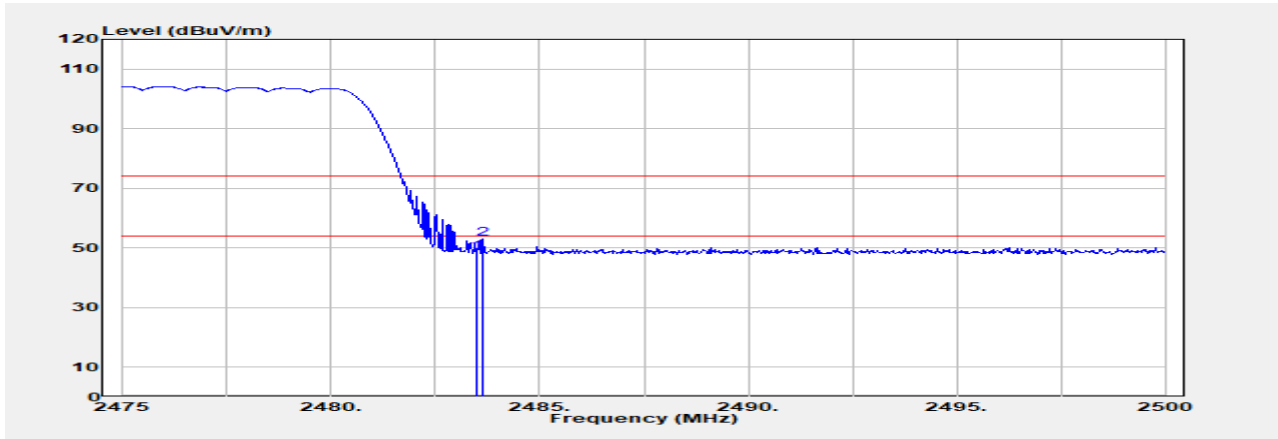
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.12	-24.73	24.39	54.00	-29.61
2483.775	Average	53.08	-24.73	28.35	54.00	-25.65

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Report Number	:TERF2309002385E2	Test Site	:SAC G Chamber
Operation Mode	:BR Hopping	Test Date	:2023-09-27
Test Frequency	:2480 MHz	Temp./Humi.	:22.2°C/60%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	51.88	-3.54	48.34	74.00	-25.66
2483.650	Peak	56.42	-3.54	52.88	74.00	-21.12

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	48.34	-24.73	23.61	54.00	-30.39
2483.650	Average	52.88	-24.73	28.15	54.00	-25.85

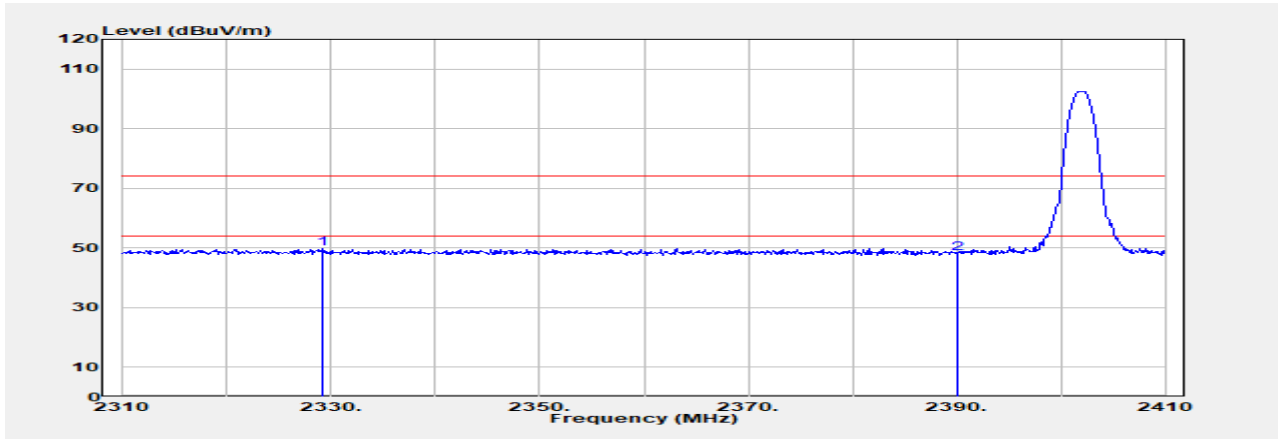
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2329.100	Peak	53.14	-3.28	49.86	74.00	-24.14
2390.000	Peak	51.70	-3.51	48.19	74.00	-25.81

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2329.100	Average	49.86	-24.73	25.13	54.00	-28.87
2390.000	Average	48.19	-24.73	23.46	54.00	-30.54

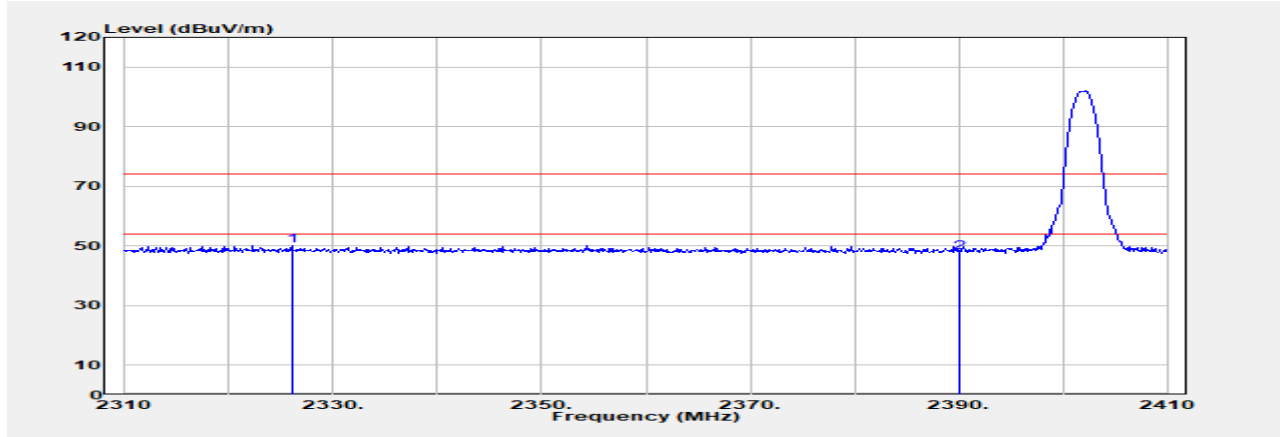
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2326.000	Peak	53.41	-3.28	50.13	74.00	-23.87
2390.000	Peak	51.36	-3.51	47.85	74.00	-26.15

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2326.000	Average	50.13	-24.73	25.40	54.00	-28.60
2390.000	Average	47.85	-24.73	23.12	54.00	-30.88

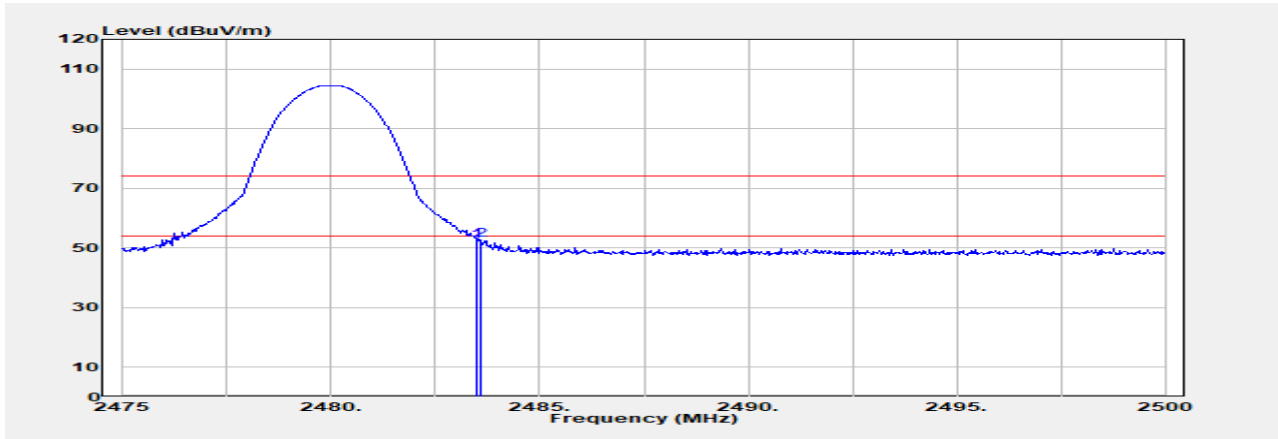
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	55.92	-3.54	52.37	74.00	-21.63
2483.600	Peak	56.19	-3.54	52.64	74.00	-21.36

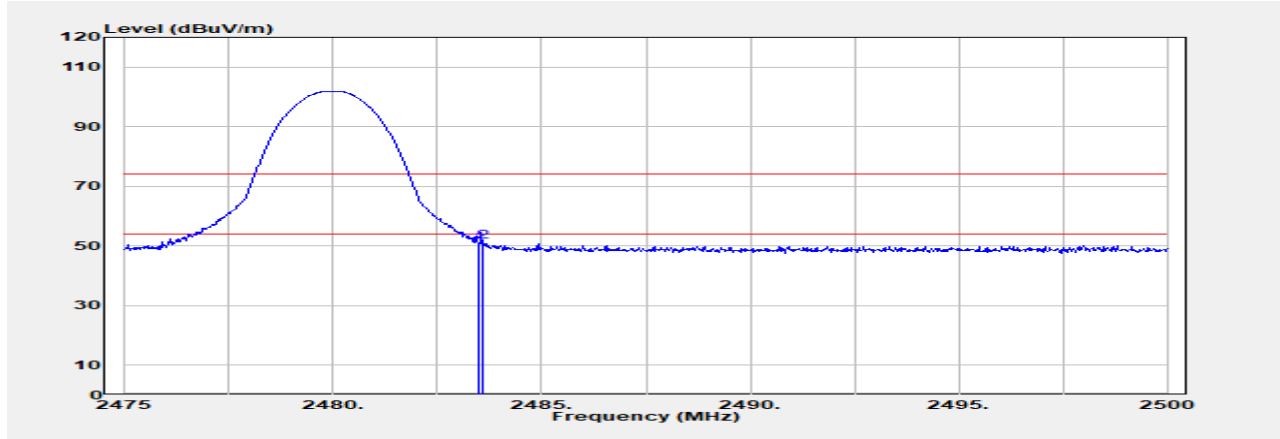
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	52.37	-24.73	27.64	54.00	-26.36
2483.600	Average	52.64	-24.73	27.91	54.00	-26.09

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Report Number :TERF2309002385E2	Test Site :SAC G Chamber
Operation Mode :EDR 3M	Test Date :2023-09-27
Test Frequency :2480 MHz	Temp./Humi. :22.2°C/60%
Test Mode :Bandedge	Antenna Pol. :Horizontal
EUT Pol :H Plane	Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	54.40	-3.54	50.85	74.00	-23.15
2483.600	Peak	55.03	-3.54	51.49	74.00	-22.51

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	50.85	-24.73	26.12	54.00	-27.88
2483.600	Average	51.49	-24.73	26.76	54.00	-27.24

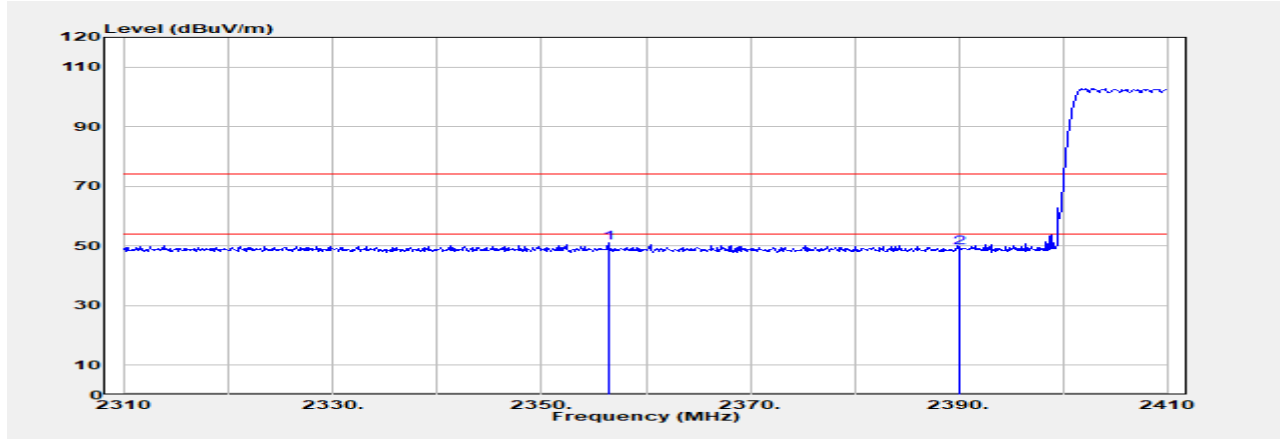
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2356.400	Peak	54.24	-3.34	50.90	74.00	-23.10
2390.000	Peak	52.88	-3.51	49.37	74.00	-24.63

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2356.400	Average	50.90	-24.73	26.17	54.00	-27.83
2390.000	Average	49.37	-24.73	24.64	54.00	-29.36

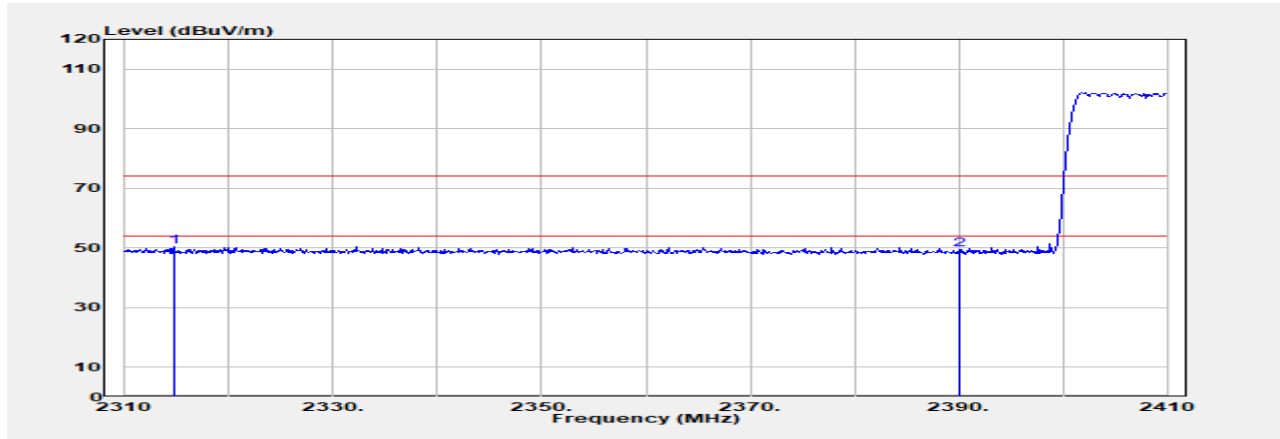
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2314.700	Peak	53.68	-3.27	50.42	74.00	-23.58
2390.000	Peak	52.80	-3.51	49.29	74.00	-24.71

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2314.700	Average	50.42	-24.73	25.69	54.00	-28.31
2390.000	Average	49.29	-24.73	24.56	54.00	-29.44

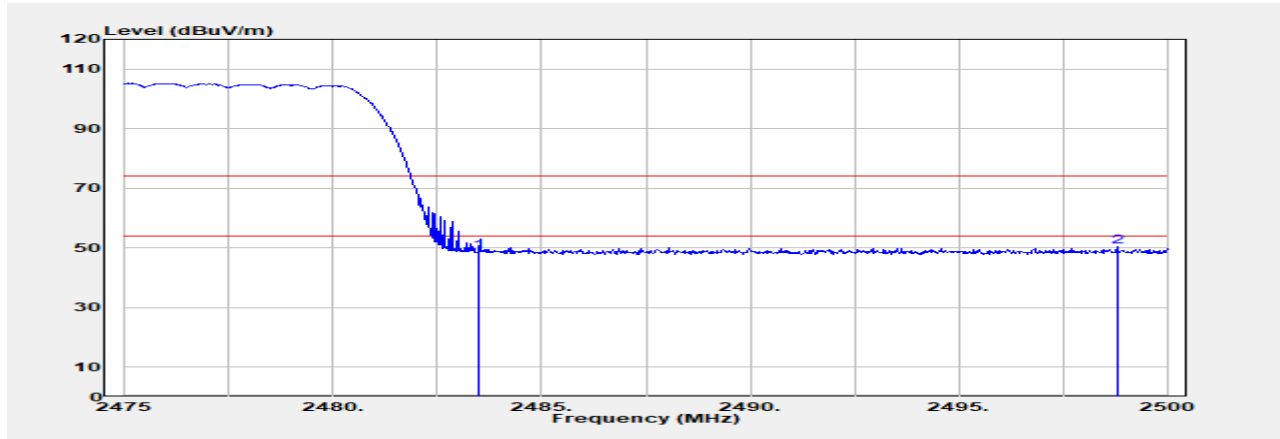
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Peak	52.34	-3.54	48.80	74.00	-25.20
2498.800	Peak	53.83	-3.52	50.31	74.00	-23.69

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2483.500	Average	48.80	-24.73	24.07	54.00	-29.93
2498.800	Average	50.31	-24.73	25.58	54.00	-28.42

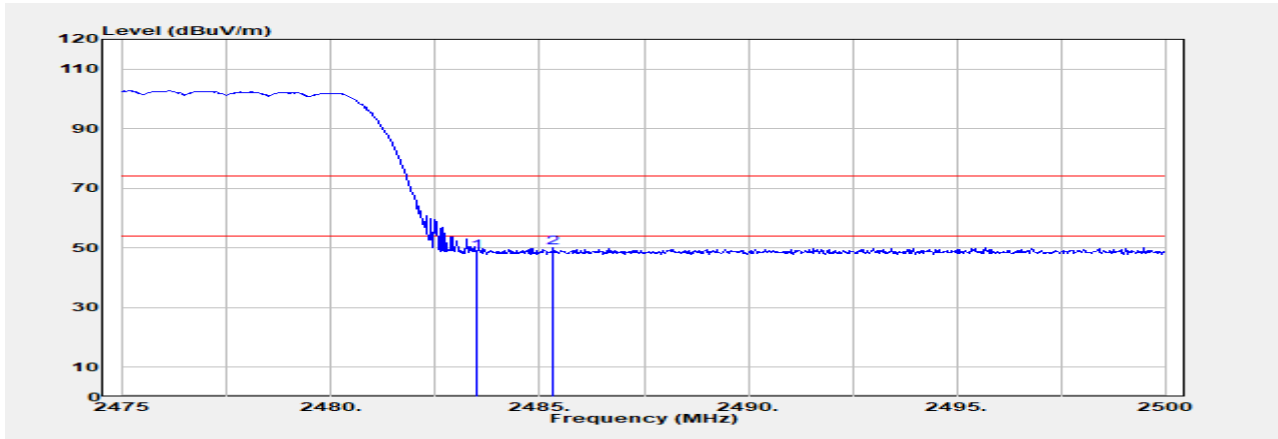
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Peak	52.35	-3.54	48.80	74.00	-25.20
2485.325	Peak	53.65	-3.54	50.11	74.00	-23.89

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2483.500	Average	48.80	-24.73	24.07	54.00	-29.93
2485.325	Average	50.11	-24.73	25.38	54.00	-28.62

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10.6.4 Radiated Spurious Emission

Report Number :TERF2309002385E2

Test Site :SAC G Chamber

Operation Mode :BR

Test Date :2023-10-02

Test Frequency :2441 MHz

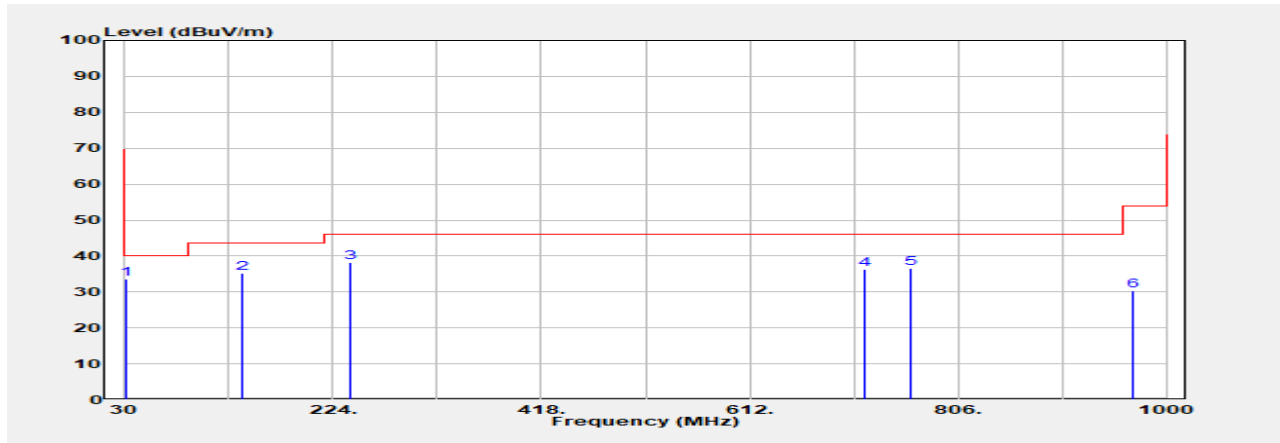
Temp./Humi. :23.6°C/60%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Temo Chen



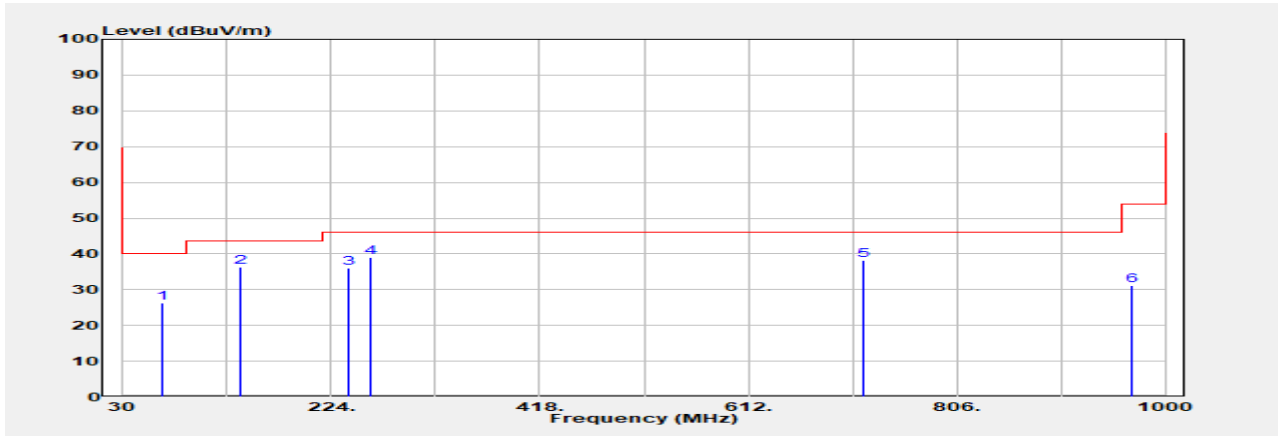
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.940	QP	47.80	-14.31	33.49	40.00	-6.51
139.610	QP	48.70	-13.42	35.28	43.50	-8.22
240.490	QP	52.40	-14.07	38.33	46.00	-7.67
719.670	Peak	39.72	-3.39	36.33	46.00	-9.67
762.350	Peak	38.36	-1.88	36.49	46.00	-9.51
969.930	Peak	29.56	0.92	30.48	54.00	-23.52

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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-10-02
 Temp./Humi. :23.6°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
66.860	Peak	40.71	-14.32	26.39	40.00	-13.61
139.610	Peak	49.86	-13.42	36.45	43.50	-7.05
240.490	QP	50.21	-14.07	36.14	46.00	-9.86
260.860	Peak	52.31	-13.34	38.97	46.00	-7.03
719.670	Peak	41.64	-3.39	38.25	46.00	-7.75
968.960	Peak	30.18	0.91	31.09	54.00	-22.91

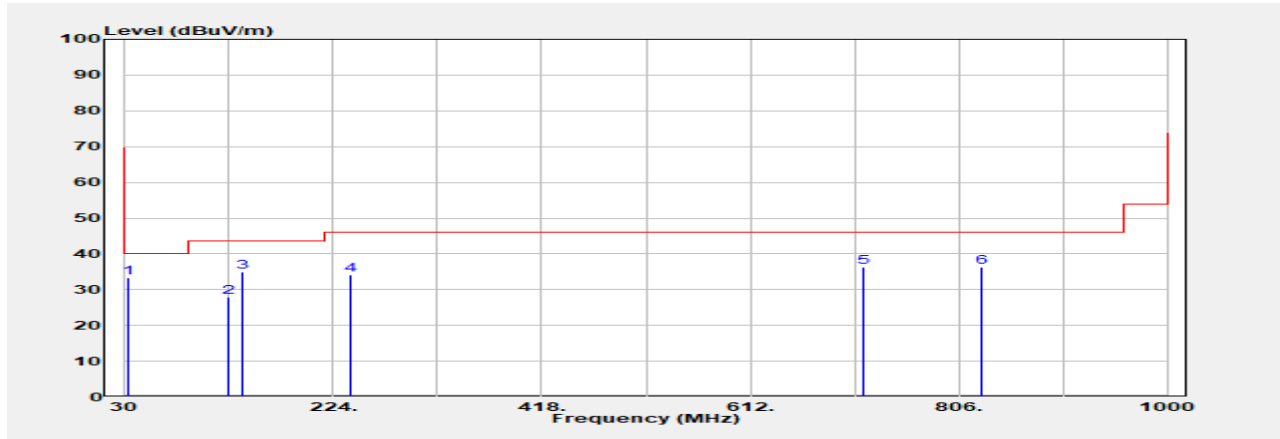
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-10-02
 Temp./Humi. :23.6°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	QP	47.60	-14.14	33.46	40.00	-6.54
127.000	QP	42.80	-14.92	27.88	43.50	-15.62
139.610	QP	48.30	-13.42	34.88	43.50	-8.62
240.490	QP	48.30	-14.07	34.23	46.00	-11.77
717.730	Peak	39.84	-3.43	36.41	46.00	-9.59
827.340	Peak	38.10	-1.72	36.38	46.00	-9.62

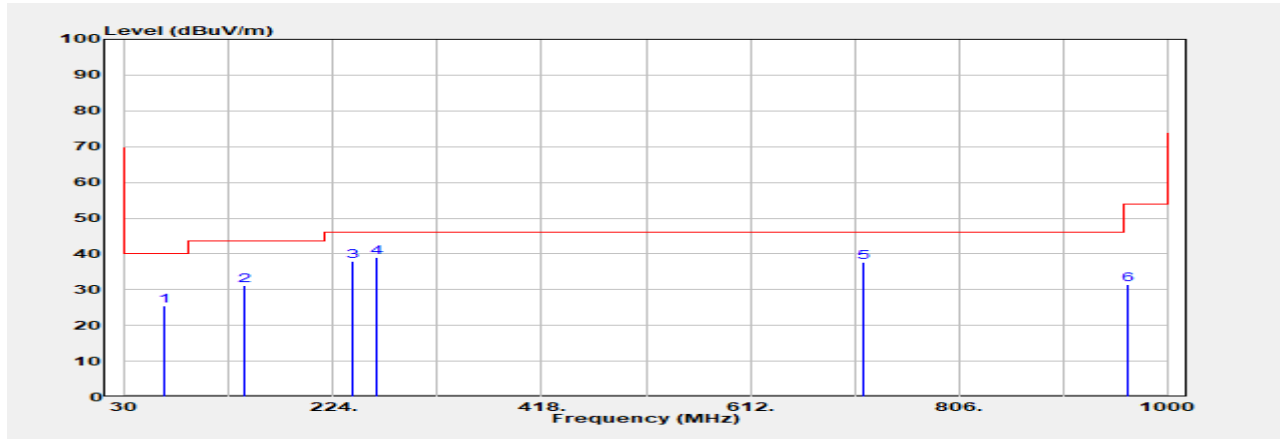
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-10-02
 Temp./Humi. :23.6°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
66.860	Peak	39.78	-14.32	25.46	40.00	-14.54
140.580	QP	44.50	-13.41	31.09	43.50	-12.41
241.460	QP	52.10	-14.04	38.06	46.00	-7.94
263.770	Peak	52.16	-13.16	39.00	46.00	-7.00
716.760	Peak	41.01	-3.45	37.56	46.00	-8.44
964.110	Peak	30.60	0.88	31.47	54.00	-22.53

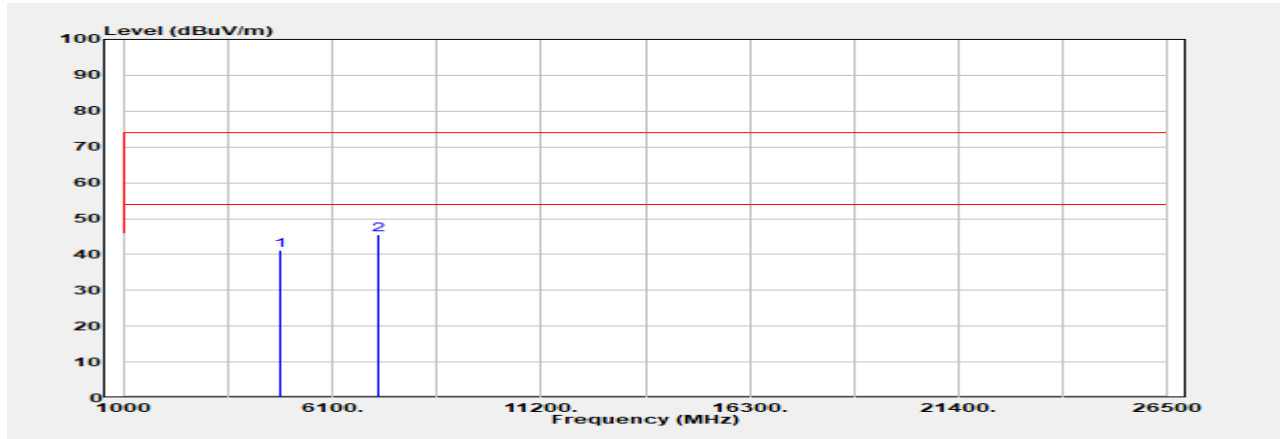
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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	37.92	3.26	41.18	74.00	-32.82
7206.000	Peak	36.89	8.51	45.40	74.00	-28.60

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	41.18	-24.73	16.45	54.00	-37.55
7206.000	Average	45.40	-24.73	20.67	54.00	-33.33

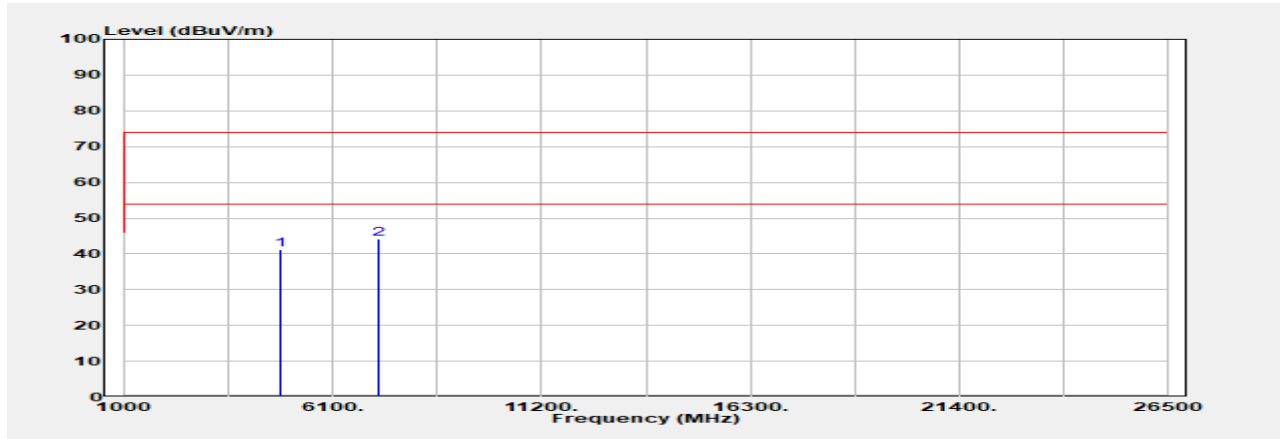
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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Peak	38.01	3.26	41.27	74.00	-32.73
7206.000	Peak	35.55	8.51	44.05	74.00	-29.95
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	41.27	-24.73	16.54	54.00	-37.46
7206.000	Average	44.05	-24.73	19.32	54.00	-34.68

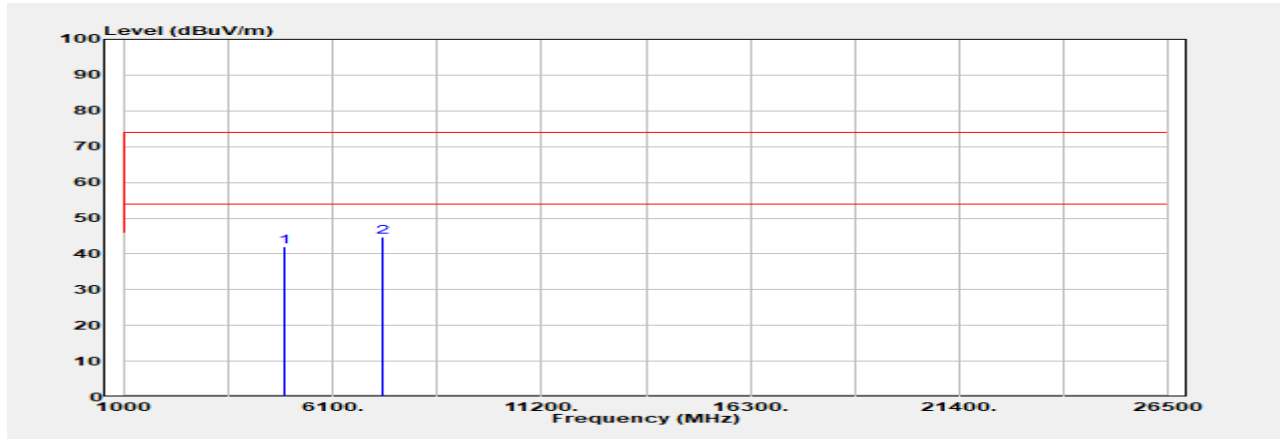
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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	38.61	3.36	41.97	74.00	-32.03
7323.000	Peak	35.94	8.66	44.60	74.00	-29.40
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	41.97	-24.73	17.24	54.00	-36.76
7323.000	Average	44.60	-24.73	19.87	54.00	-34.13

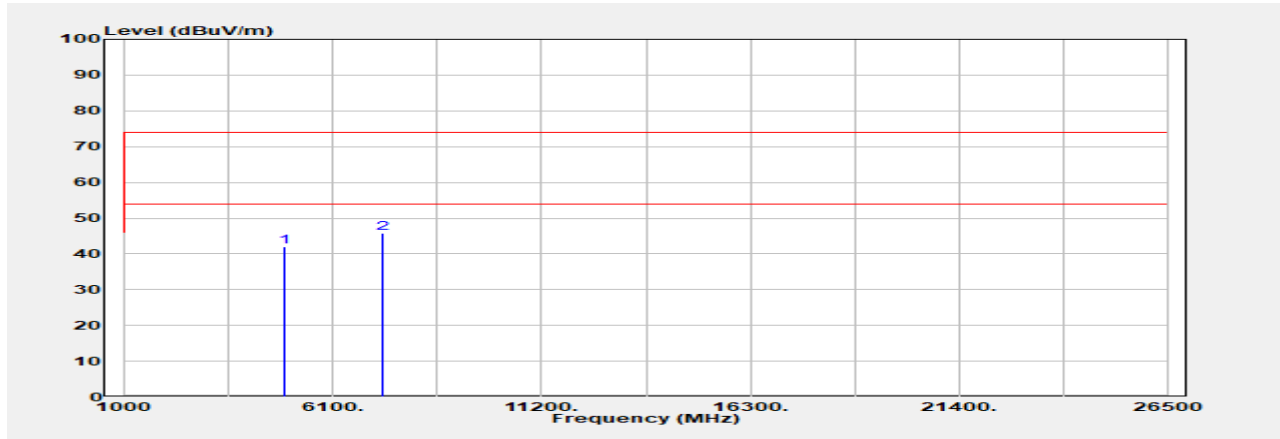
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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



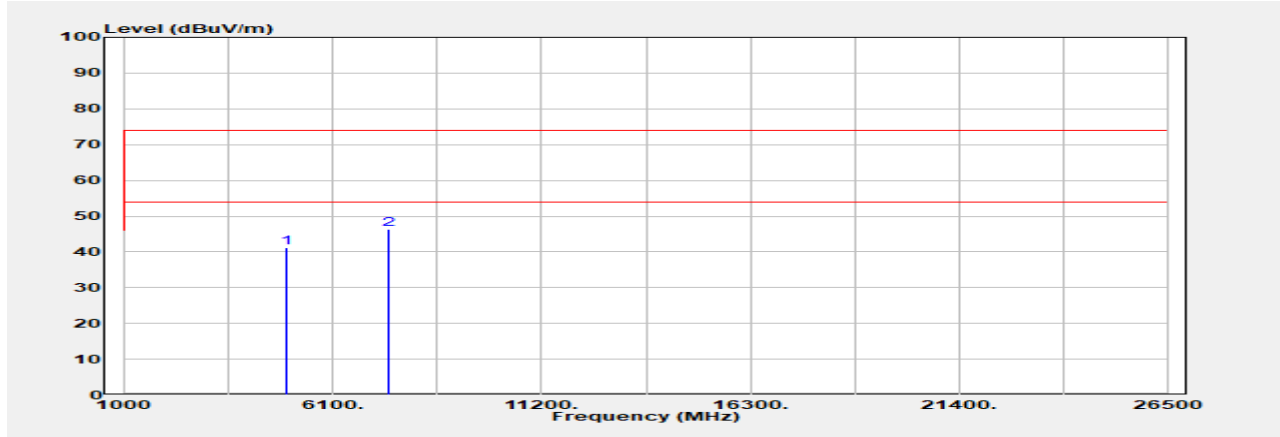
Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	38.67	3.36	42.04	74.00	-31.96
7323.000	Peak	37.12	8.66	45.78	74.00	-28.22
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	42.04	-24.73	17.31	54.00	-36.69
7323.000	Average	45.78	-24.73	21.05	54.00	-32.95

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Report Number :TERF2309002385E2	Test Site :SAC G Chamber
Operation Mode :BR	Test Date :2023-09-27
Test Frequency :2480 MHz	Temp./Humi. :22.2°C/60%
Test Mode :Tx	Antenna Pol. :Vertical
EUT Pol :H Plane	Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	37.56	3.62	41.17	74.00	-32.83
7440.000	Peak	36.79	9.42	46.21	74.00	-27.79

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	41.17	-24.73	16.44	54.00	-37.56
7440.000	Average	46.21	-24.73	21.48	54.00	-32.52

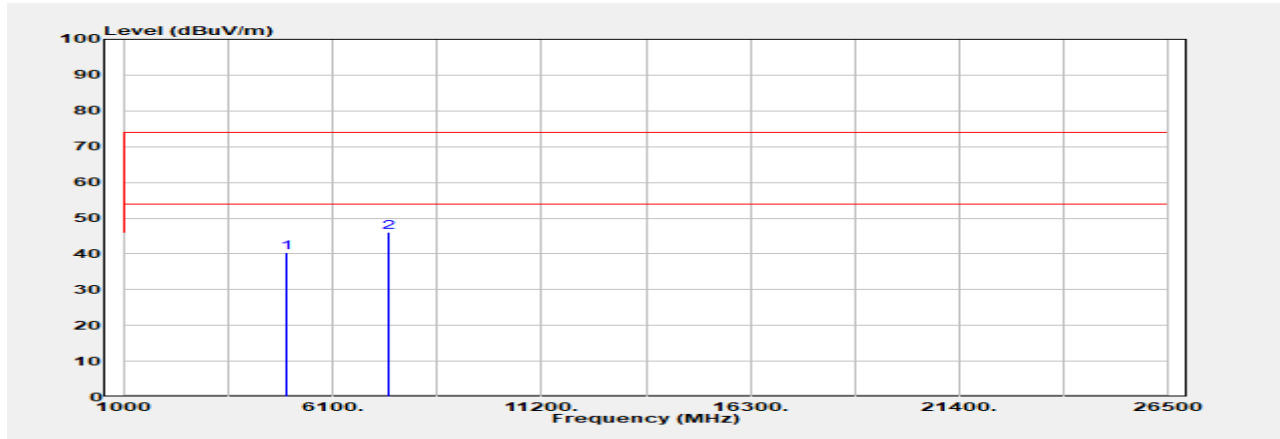
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Report Number :TERF2309002385E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	36.77	3.62	40.39	74.00	-33.61
7440.000	Peak	36.69	9.42	46.11	74.00	-27.89
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	40.39	-24.73	15.66	54.00	-38.34
7440.000	Average	46.11	-24.73	21.38	54.00	-32.62

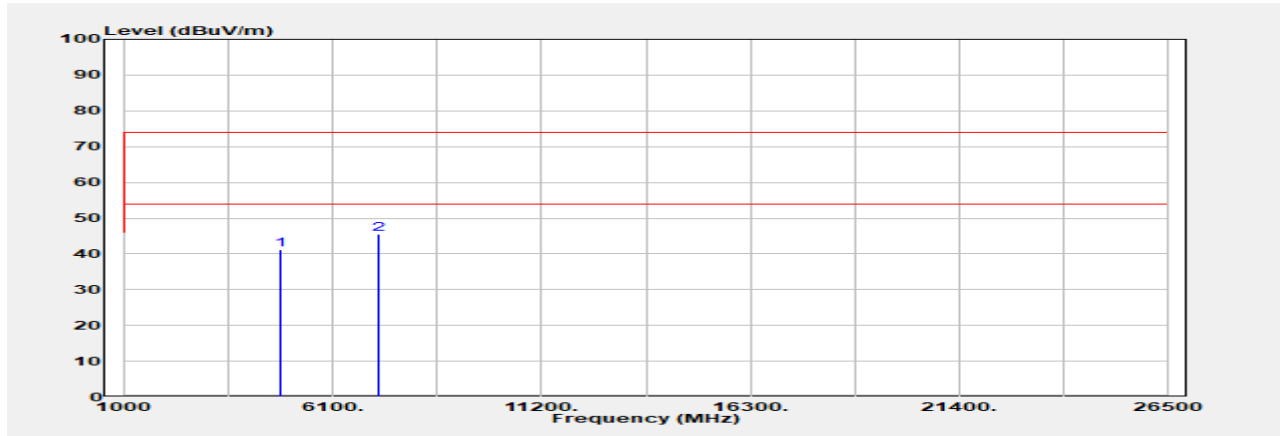
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	37.99	3.26	41.24	74.00	-32.76
7206.000	Peak	37.01	8.51	45.52	74.00	-28.48

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	41.24	-24.73	16.51	54.00	-37.49
7206.000	Average	45.52	-24.73	20.79	54.00	-33.21

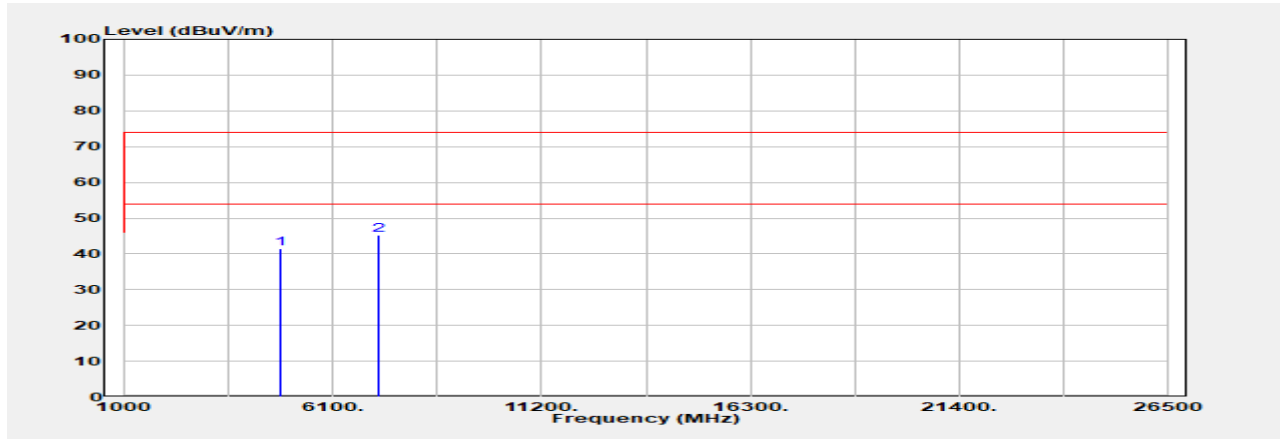
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Peak	38.26	3.26	41.52	74.00	-32.48
7206.000	Peak	36.85	8.51	45.35	74.00	-28.65

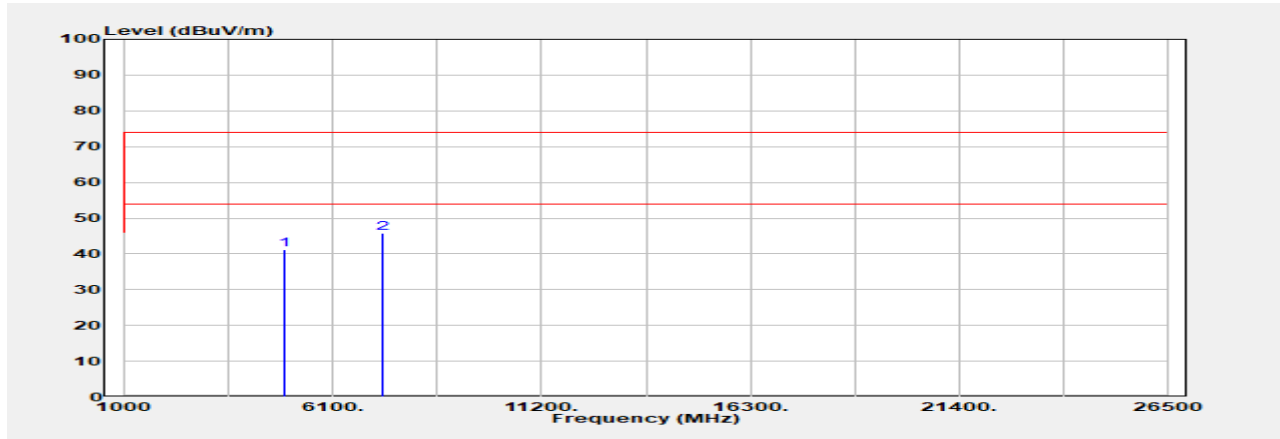
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
4804.000	Average	41.52	-24.73	16.79	54.00	-37.21
7206.000	Average	45.35	-24.73	20.62	54.00	-33.38

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Report Number :TERF2309002385E2	Test Site :SAC G Chamber
Operation Mode :EDR 3M	Test Date :2023-09-27
Test Frequency :2441 MHz	Temp./Humi. :22.2°C/60%
Test Mode :Tx	Antenna Pol. :Vertical
EUT Pol :H Plane	Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	37.90	3.36	41.26	74.00	-32.74
7323.000	Peak	37.02	8.66	45.68	74.00	-28.32

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	41.26	-24.73	16.53	54.00	-37.47
7323.000	Average	45.68	-24.73	20.95	54.00	-33.05

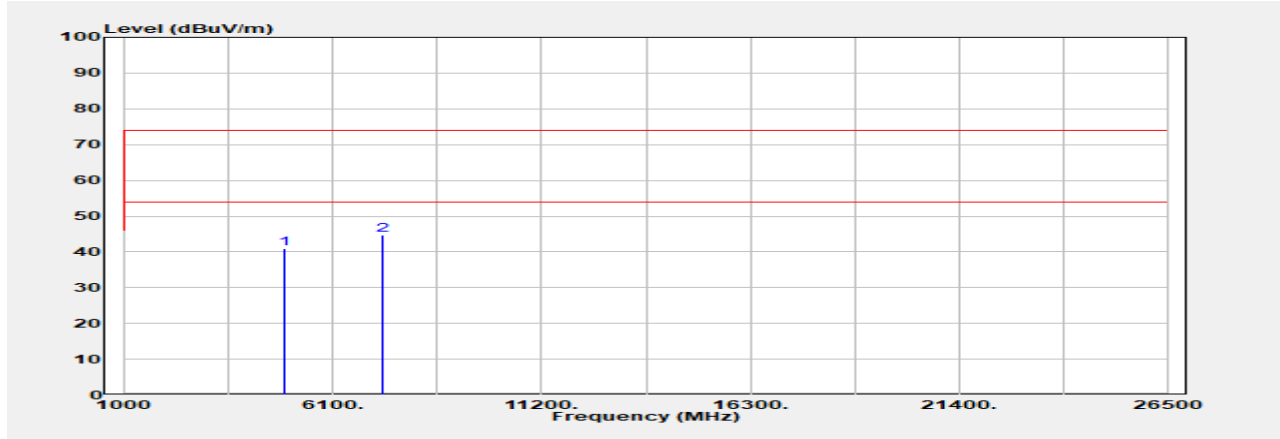
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	37.49	3.36	40.85	74.00	-33.15
7323.000	Peak	35.98	8.66	44.65	74.00	-29.35
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	40.85	-24.73	16.12	54.00	-37.88
7323.000	Average	44.65	-24.73	19.92	54.00	-34.08

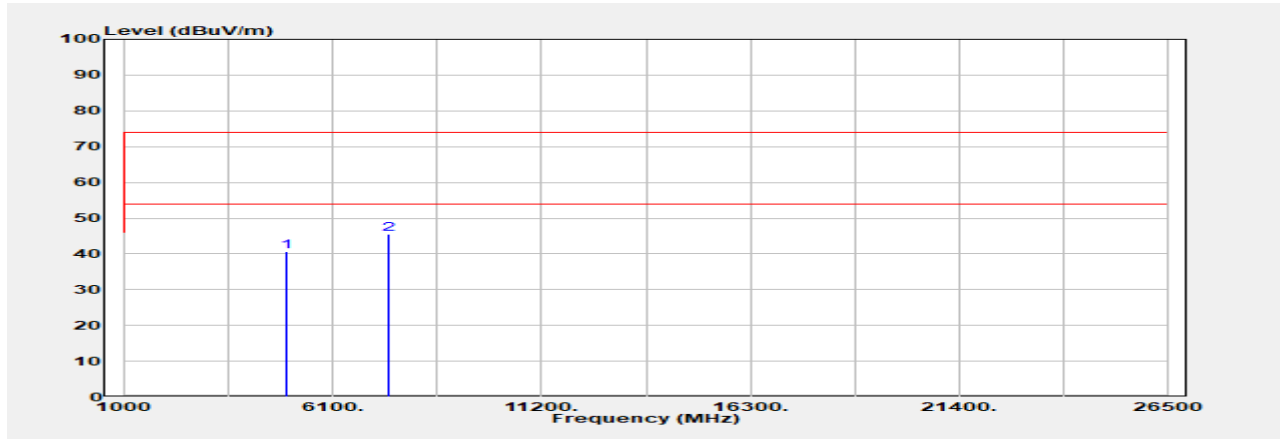
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Report Number :TERF2309002385E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2023-09-27
 Temp./Humi. :22.2°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	37.16	3.62	40.77	74.00	-33.23
7440.000	Peak	36.13	9.42	45.55	74.00	-28.45

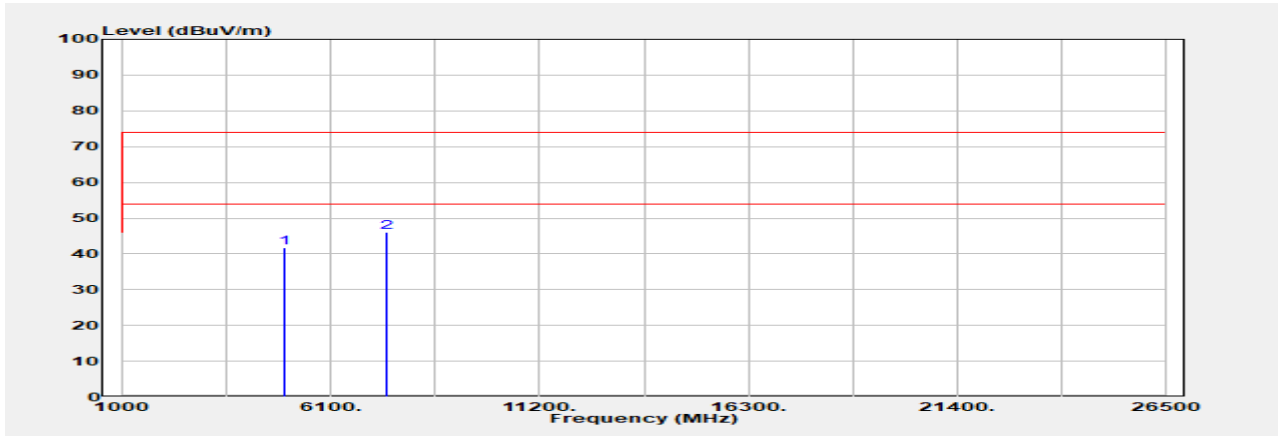
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	40.77	-24.73	16.04	54.00	-37.96
7440.000	Average	45.55	-24.73	20.82	54.00	-33.18

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Operation Mode	:EDR 3M	Test Date	:2023-09-27
Test Frequency	:2480 MHz	Temp./Humi.	:22.2°C/60%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	38.14	3.62	41.75	74.00	-32.25
7440.000	Peak	36.69	9.42	46.11	74.00	-27.89

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	41.75	-24.73	17.02	54.00	-36.98
7440.000	Average	46.11	-24.73	21.38	54.00	-32.62

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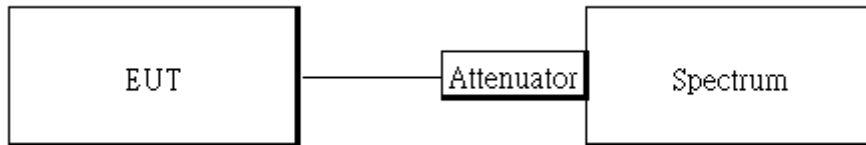
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11 FREQUENCY SEPARATION

11.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $\frac{2}{3} \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

11.2 Test Setup



11.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = middle of hopping channel.
5. Set the RBW approximately 30% of the channel spacing, $\text{VBW} \geq \text{RBW}$.
6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
7. Sweep = auto.
8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

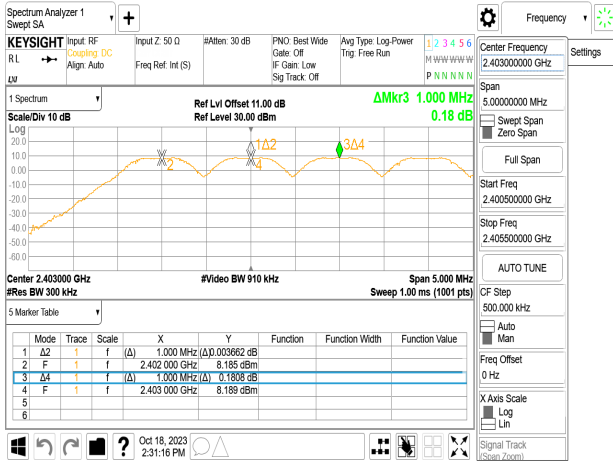
11.4 Measurement Result

Channel separation (MHz)	Limit	Result
1	$\geq 25 \text{ kHz}$ or $\frac{2}{3}$ times 20dB bandwidth	PASS

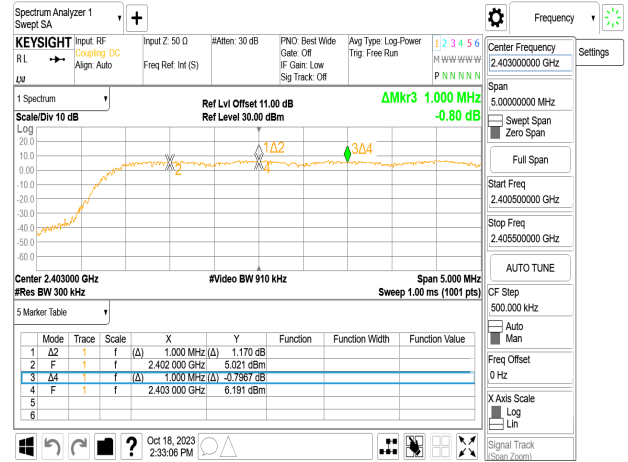
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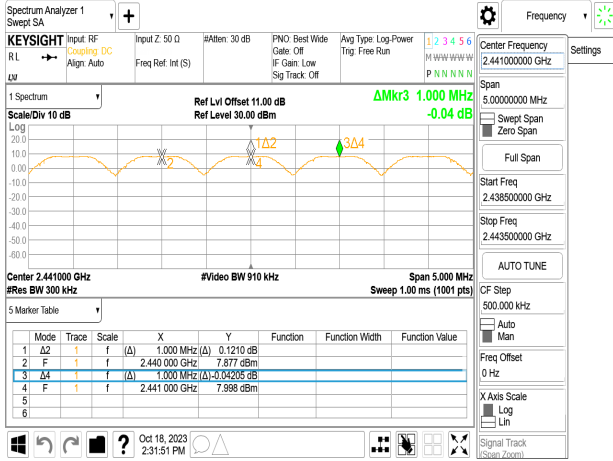
GFSK_1M_DH5_CH0CH1CH2



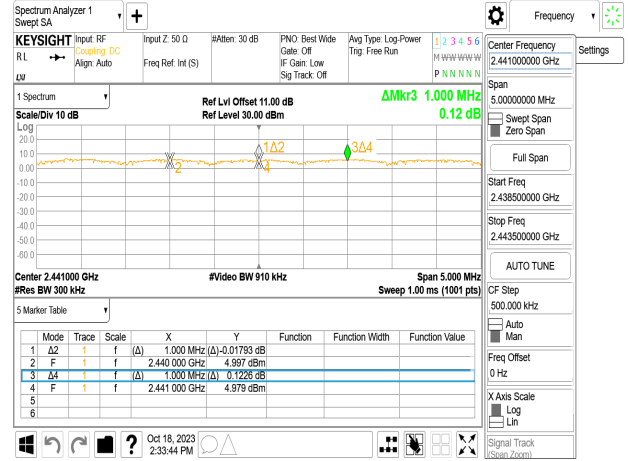
π/4DQPSK_2M_DH5_CH0CH1CH2



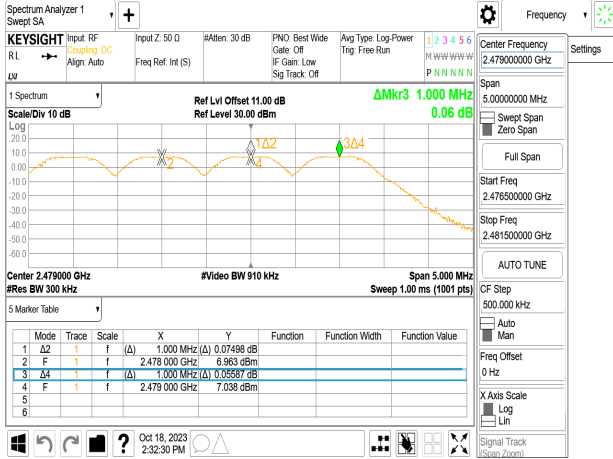
GFSK_1M_DH5_CH38CH39CH40



π/4DQPSK_2M_DH5_CH38CH39CH40



GFSK_1M_DH5_CH76CH77CH78



π/4DQPSK_2M_DH5_CH76CH77CH78

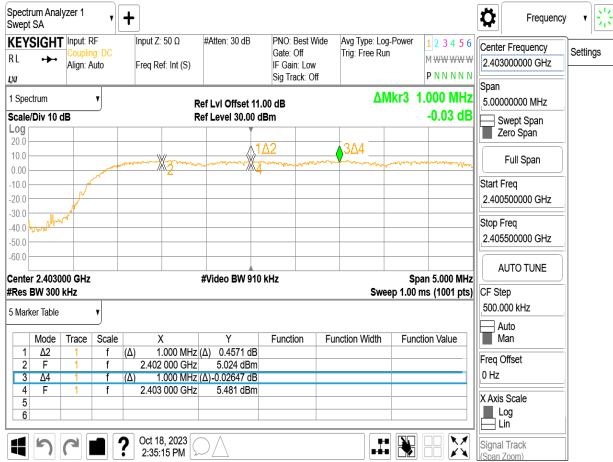


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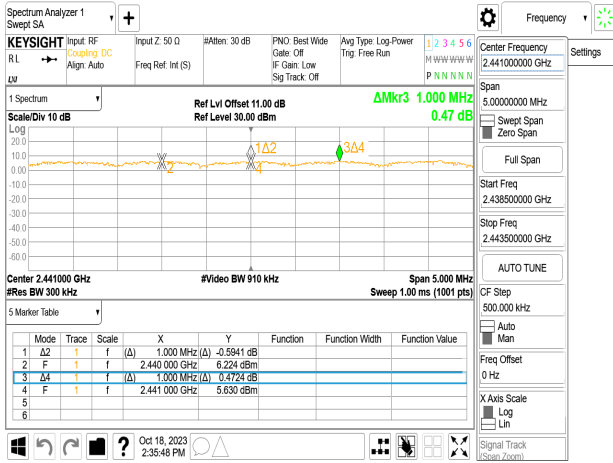
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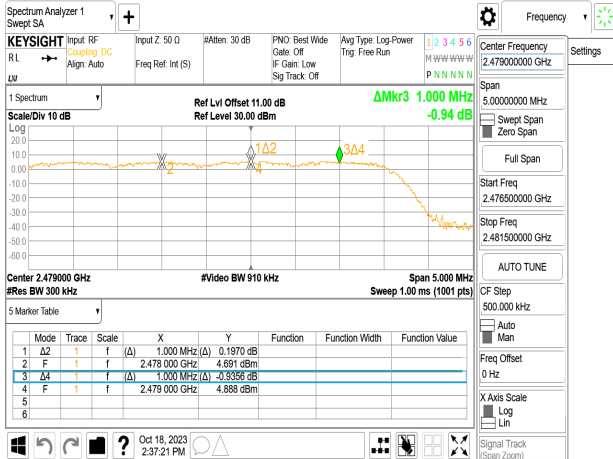
8DPSK_3M_DH5_CH0CH1CH2



8DPSK_3M_DH5_CH38CH39CH40



8DPSK_3M_DH5_CH76CH77CH78



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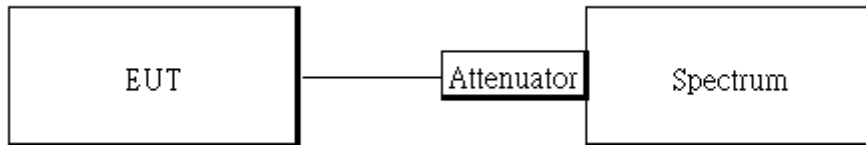
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12 NUMBER OF HOPPING FREQUENCY

12.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

12.2 Test Setup



12.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW = 30% of the channel spacing, VBW \geq RBW., Detector = Peak
6. Max hold, view and count how many channel in the band.

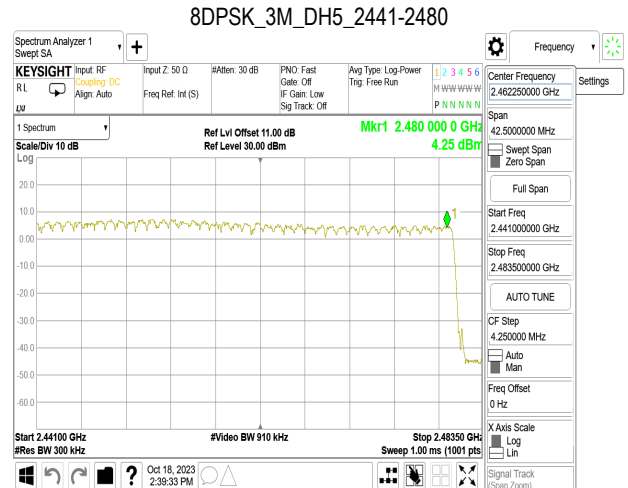
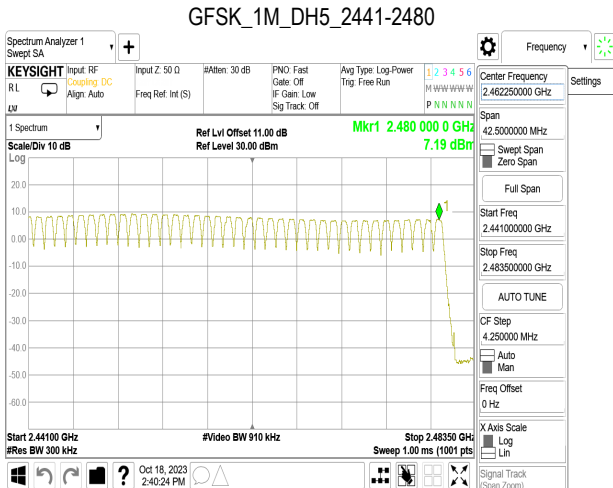
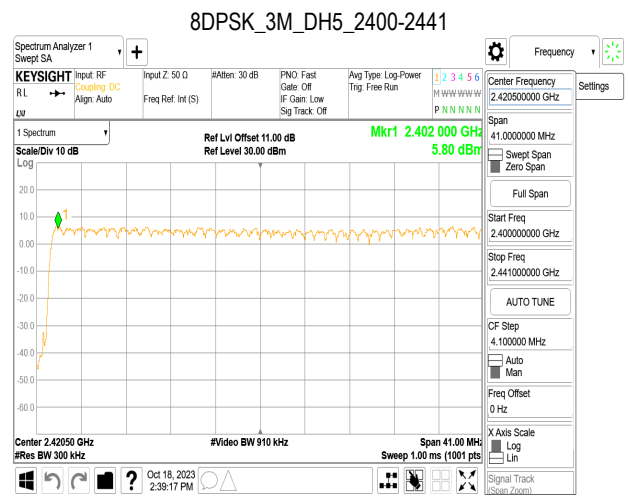
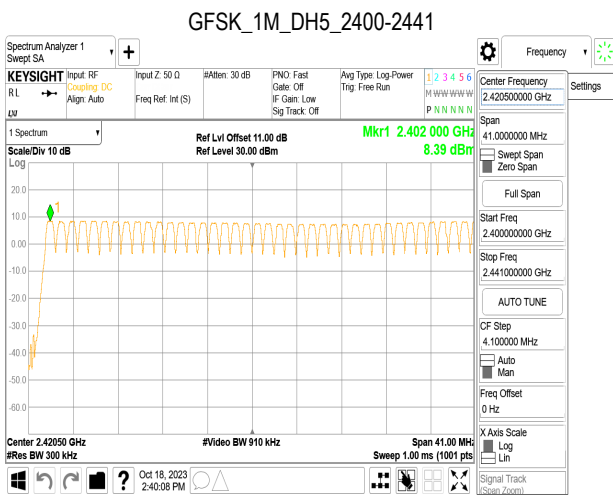
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12.4 Measurement Result

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441 GHz	40	>15
2.441 GHz – 2.4835 GHz	39	
2.4 GHz ~2.4835 GHz	(40+39) = 79	



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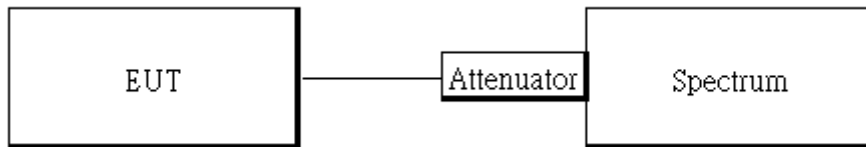
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13 TIME OF OCCUPANCY (DWELL TIME)

13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

13.2 Test Setup



13.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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13.4 Measurement Result

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	DH1	121.60	400
	DH3	260.80	400
	DH5	308.80	400

$\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	2DH1	124.80	400
	2DH3	262.40	400
	2DH5	308.80	400

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	3DH1	124.80	400
	3DH3	262.40	400
	3DH5	308.80	400

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SGS Taiwan Ltd. 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

**GFSK (1Mbps):**

CH Mid	DH1 time slot =	0.380 *	(1600/2/79) *	31.6 =	121.60 (ms)
	DH3 time slot =	1.630 *	(1600/4/79) *	31.6 =	260.80 (ms)
	DH5 time slot =	2.895 *	(1600/6/79) *	31.6 =	308.80 (ms)

 $\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot =	0.390 *	(1600/2/79) *	31.6 =	124.80 (ms)
	2DH3 time slot =	1.640 *	(1600/4/79) *	31.6 =	262.40 (ms)
	2DH5 time slot =	2.895 *	(1600/6/79) *	31.6 =	308.80 (ms)

8-DPSK (3Mbps):

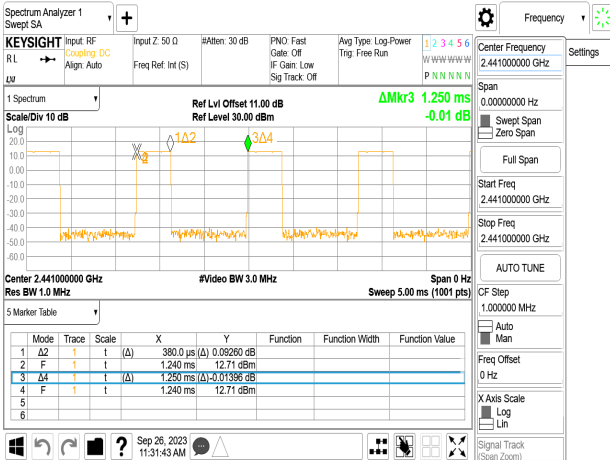
CH Mid	3DH1 time slot =	0.390 *	(1600/2/79) *	31.6 =	124.80 (ms)
	3DH3 time slot =	1.640 *	(1600/4/79) *	31.6 =	262.40 (ms)
	3DH5 time slot =	2.895 *	(1600/6/79) *	31.6 =	308.80 (ms)

A period time = 0.4 (s) * 79 = 31.6 (s)

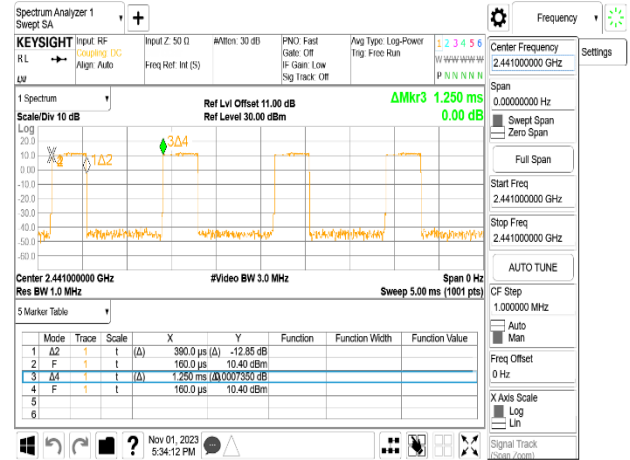
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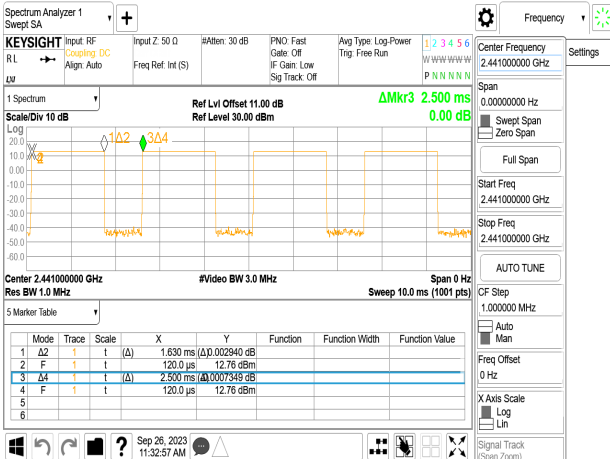
Dwell Time_GFSK_1M_DH1_2441MHz



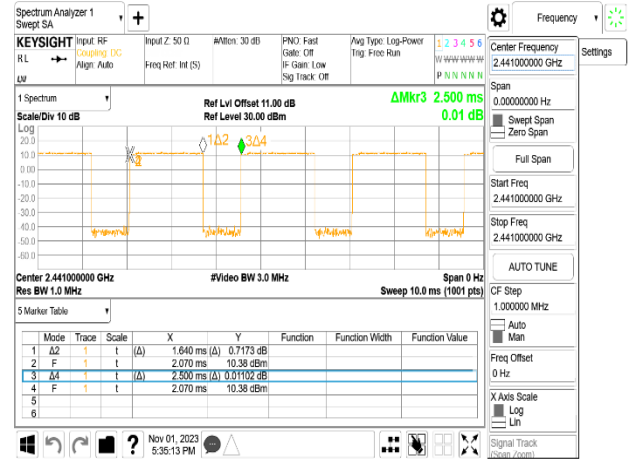
Dwell Time_π/4DQPSK_2M_DH1_2441MHz



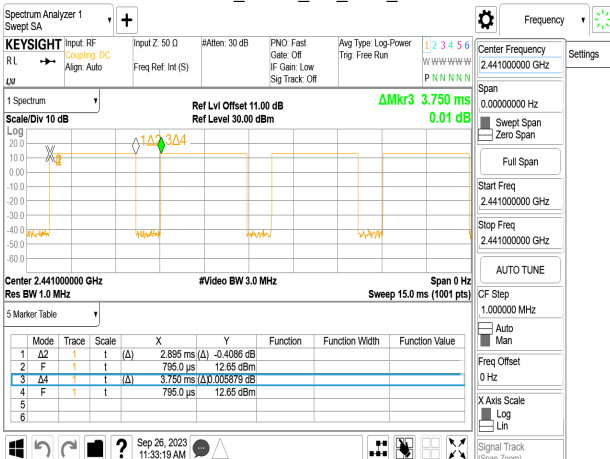
Dwell Time_GFSK_1M_DH3_2441MHz



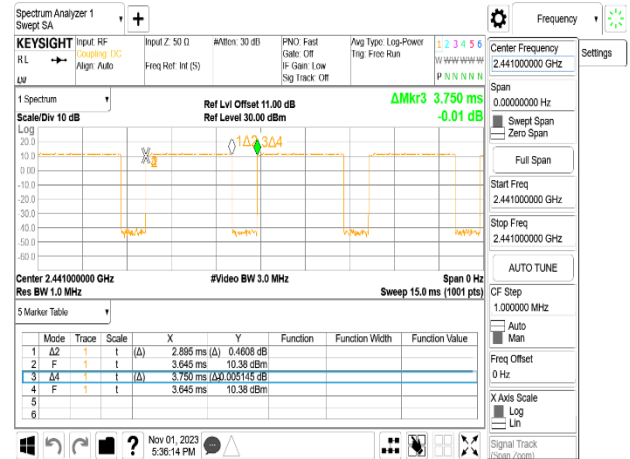
Dwell Time_π/4DQPSK_2M_DH3_2441MHz



Dwell Time_GFSK_1M_DH5_2441MHz



Dwell Time_π/4DQPSK_2M_DH5_2441MHz

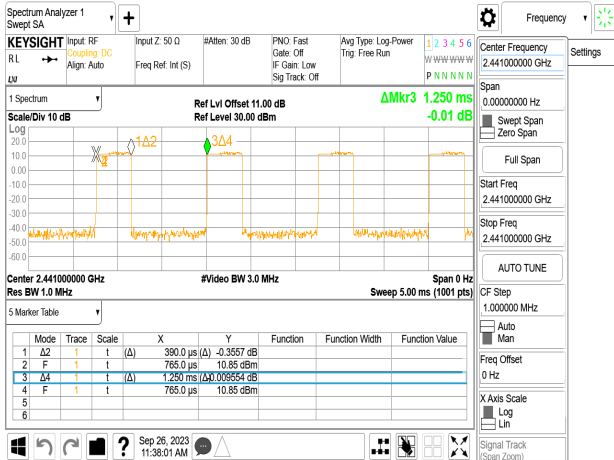


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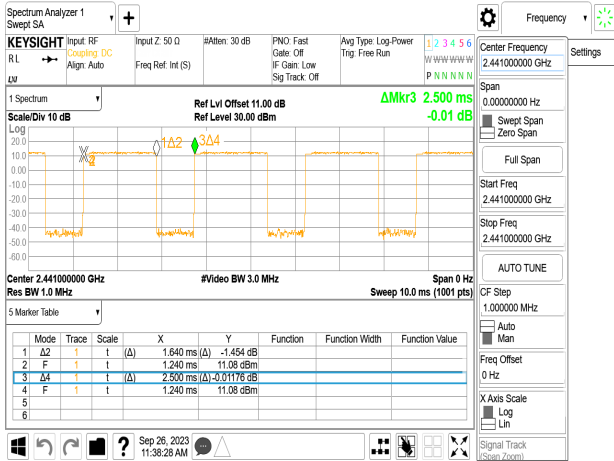
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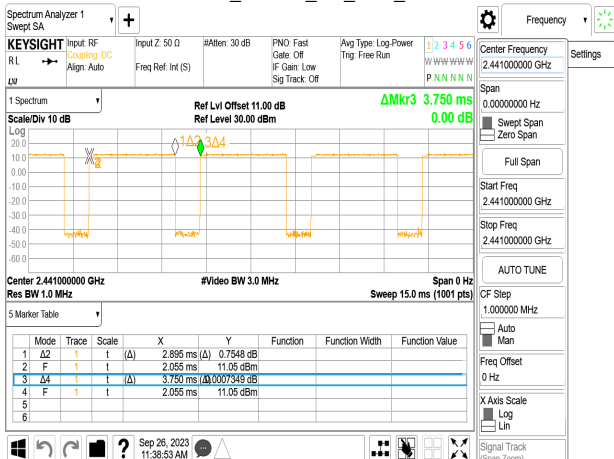
Dwell Time_8DPSK_3M_DH1_2441MHz



Dwell Time_8DPSK_3M_DH3_2441MHz



Dwell Time_8DPSK_3M_DH5_2441MHz



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14 ANTENNA REQUIREMENT

14.1 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.

14.2 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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