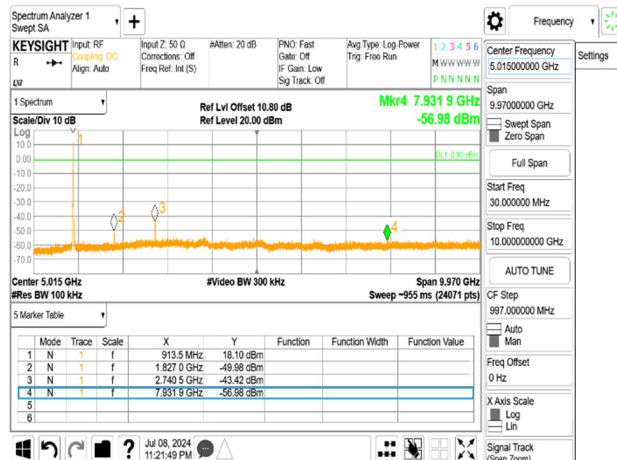


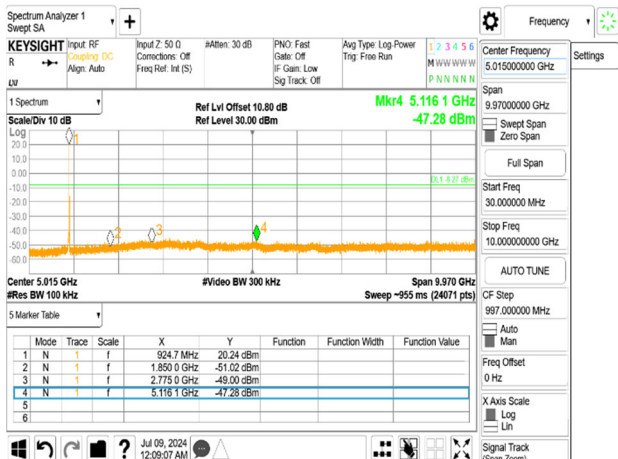
OFDM_2M_MidCH-915



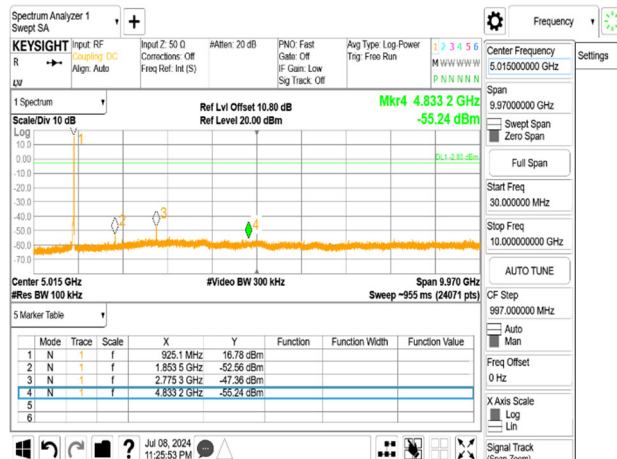
OFDM_4M_MidCH-914



OFDM_2M_HighCH-925



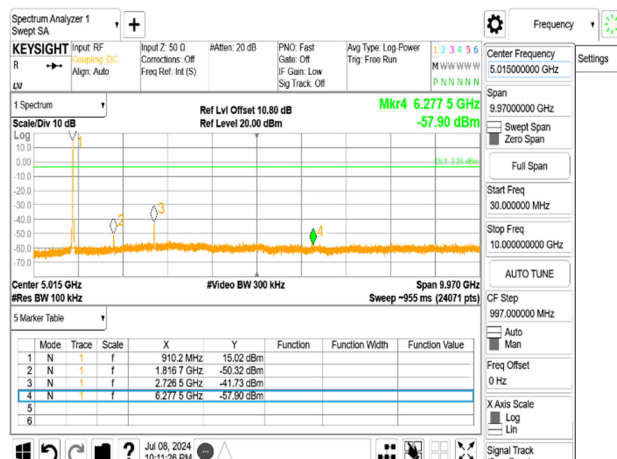
OFDM_4M_HighCH-926



OFDM_4M_LowCH-906



OFDM_8M_LowCH-908

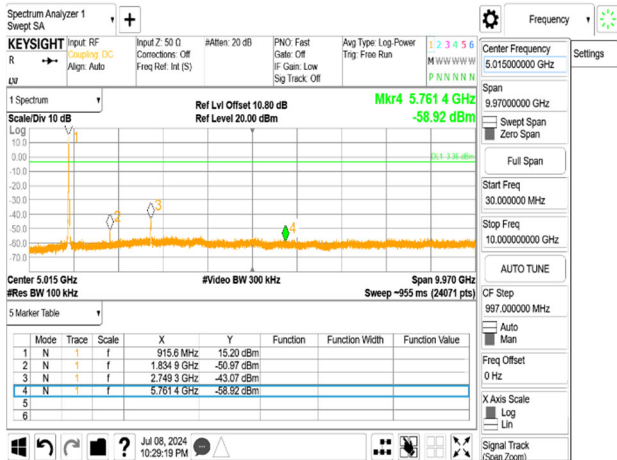


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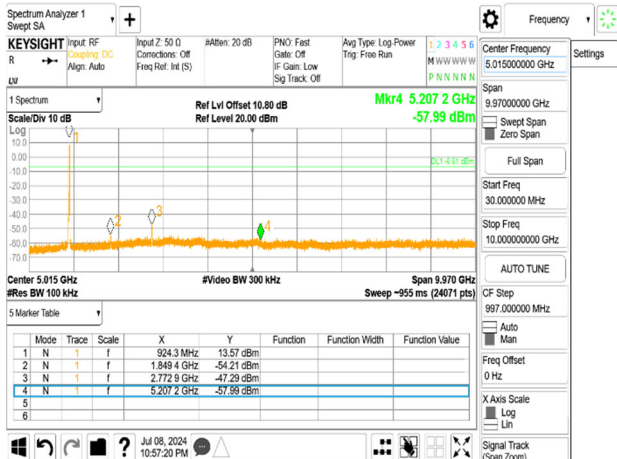
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OFDM_8M_MidCH-916



OFDM_8M_HighCH-924



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

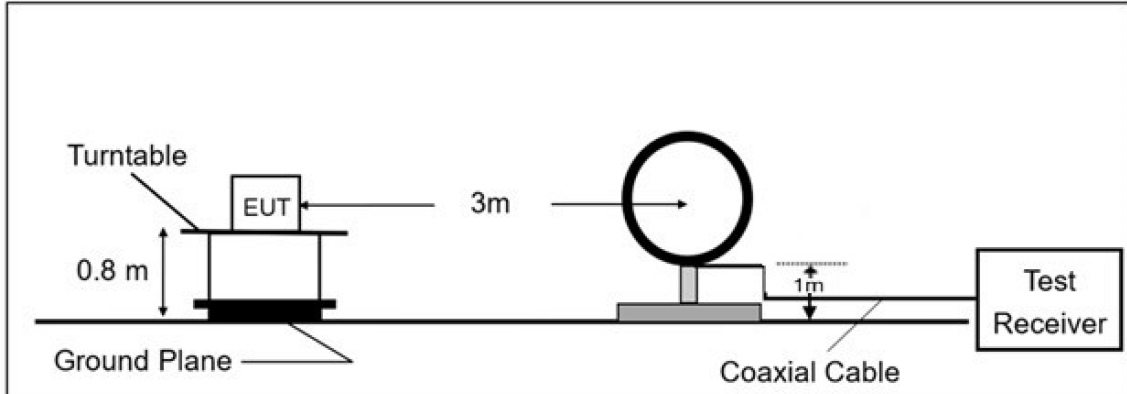
1. The lower limit shall apply at the transition frequencies.

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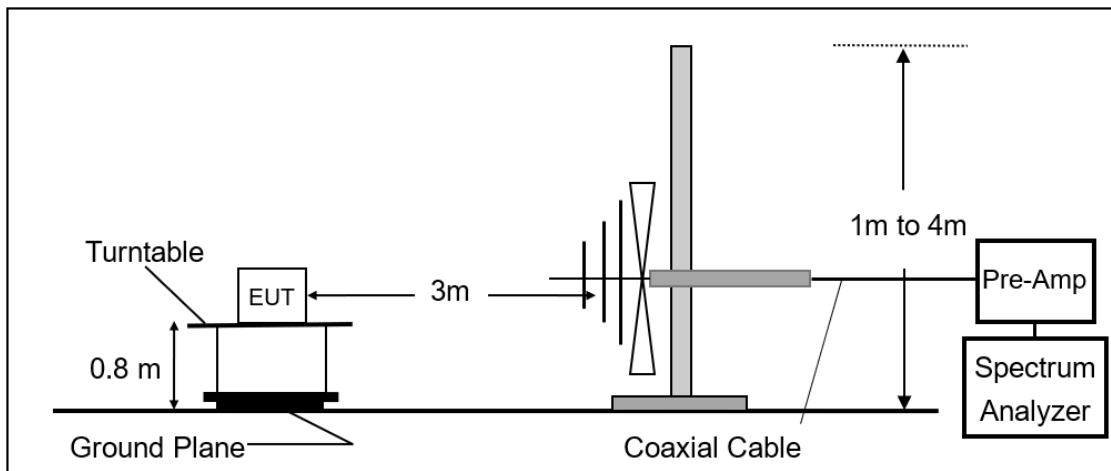
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11.2 Test Setup

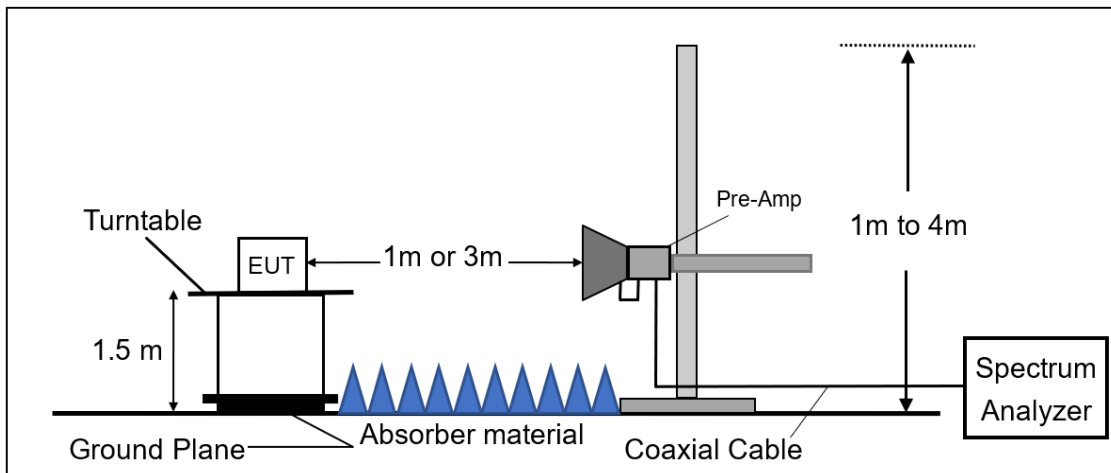
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 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.
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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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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

RA = Reading Amplitude

AF = Antenna Factor

CL = Cable Attenuation Factor (Cable Loss)

AG = Amplifier Gain

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

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) was not reported.

11.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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11.6.1 Radiated Main and Band Edge Measurement Result

Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-01

Test Frequency :914.5 MHz

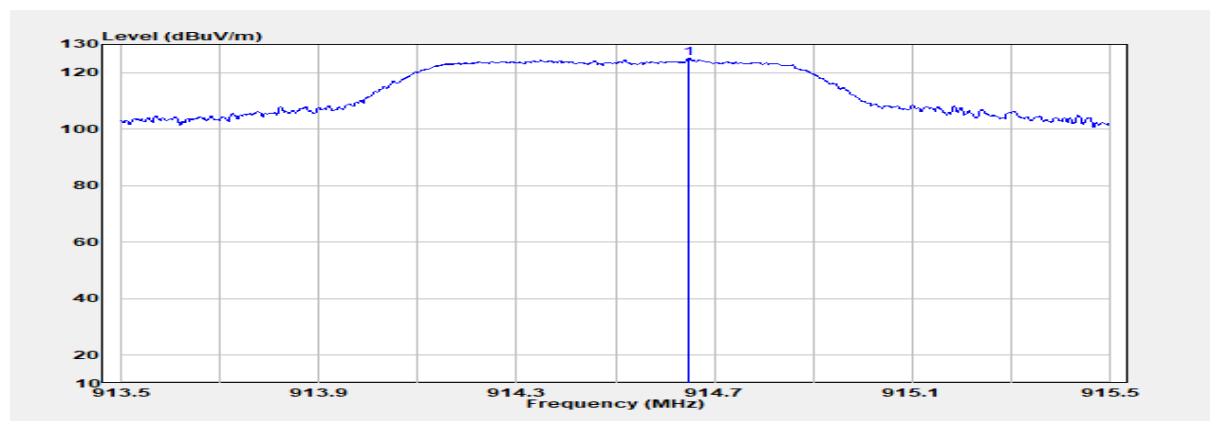
Temp./Humi. :22.5°C/56%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
914.648	Peak	130.39	-5.33	125.06	-	-

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-01

Test Frequency :914.5 MHz

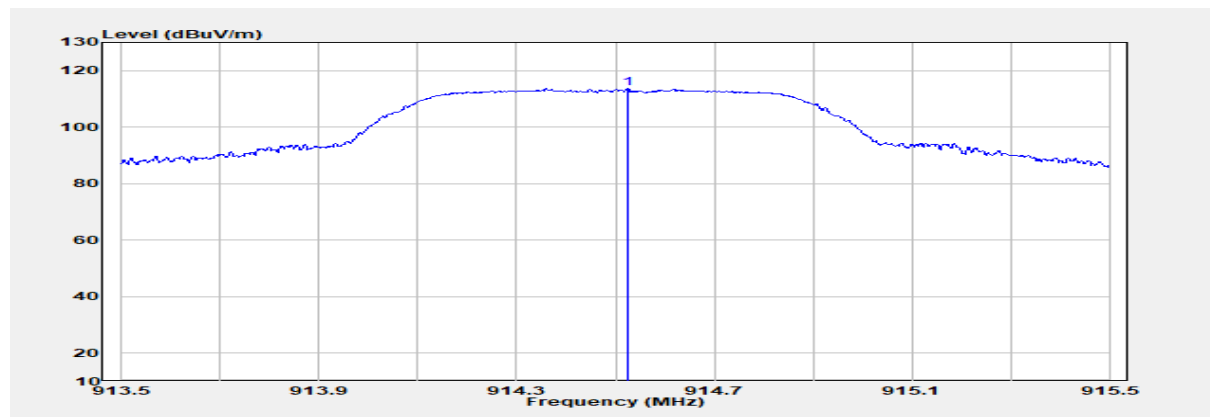
Temp./Humi. :22.5°C/56%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
914.526	Peak	119.04	-5.34	113.71	-	-

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-01

Test Frequency :915 MHz

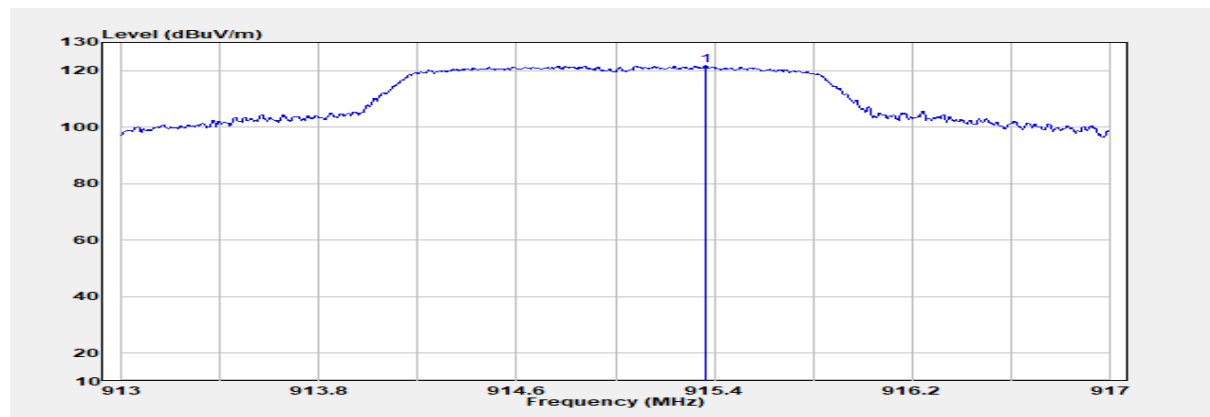
Temp./Humi. :22.5°C/56%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
915.368	Peak	127.07	-5.31	121.77	-	-

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-01

Test Frequency :915 MHz

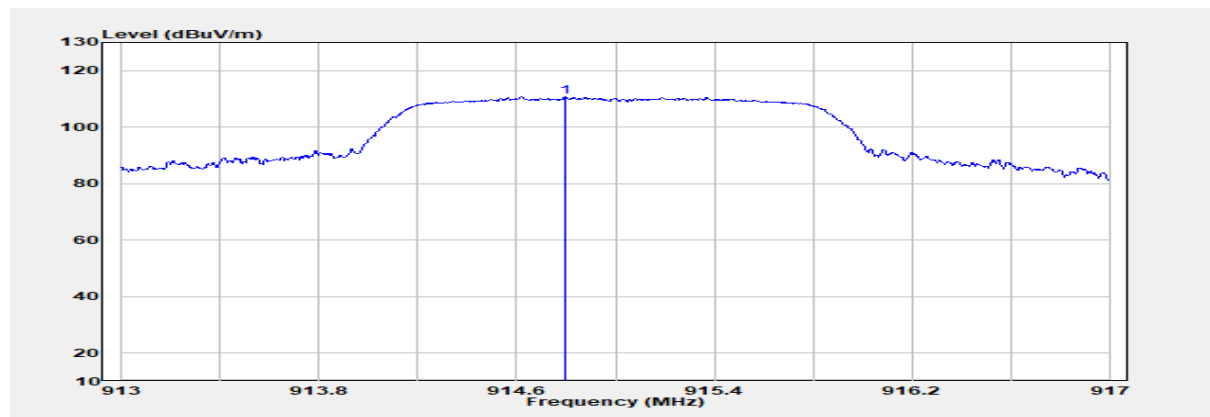
Temp./Humi. :22.5°C/56%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
914.800	Peak	116.15	-5.33	110.82	-	-

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-27

Test Frequency :914 MHz

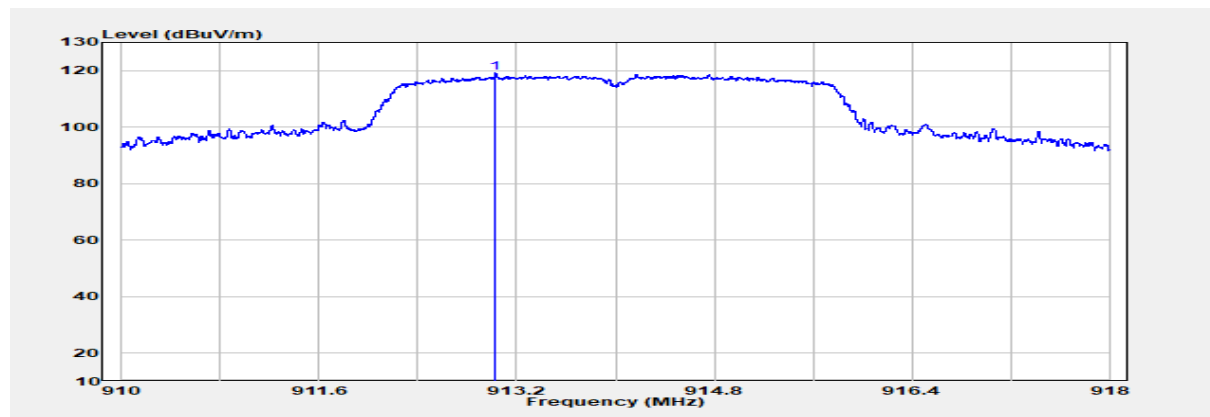
Temp./Humi. :22.4°C/55%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
913.031	Peak	124.51	-5.40	119.11	-	-

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-27

Test Frequency :914 MHz

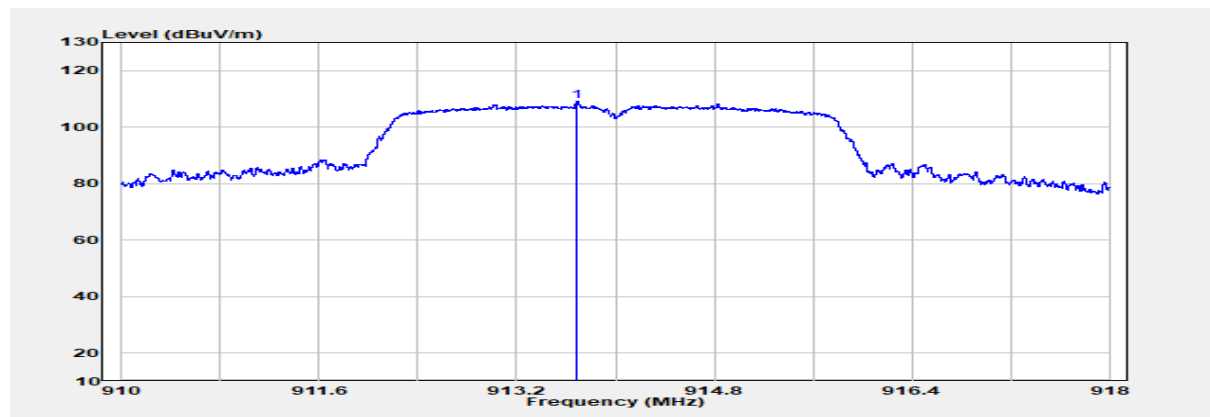
Temp./Humi. :22.4°C/55%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
913.689	Peak	114.56	-5.37	109.19	-	-

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Member of SGS Group

Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-27

Test Frequency :916 MHz

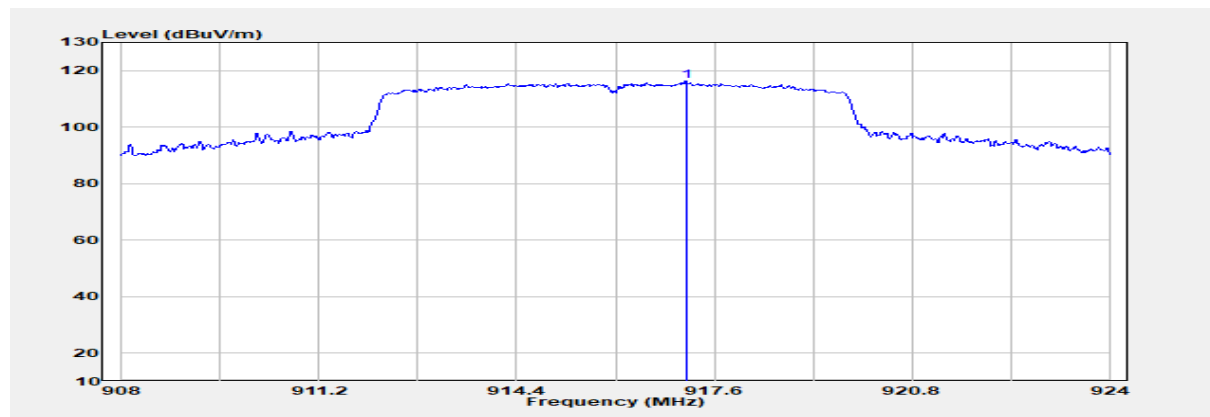
Temp./Humi. :22.4°C/55%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
917.152	Peak	121.54	-5.25	116.29	-	-

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-27

Test Frequency :916 MHz

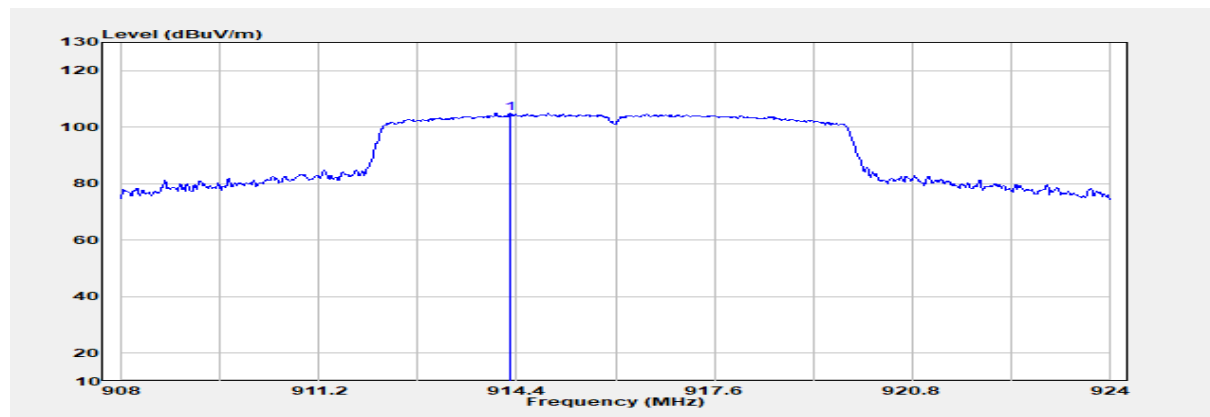
Temp./Humi. :22.4°C/55%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
914.304	Peak	110.37	-5.35	105.03	-	-

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :903.5 MHz

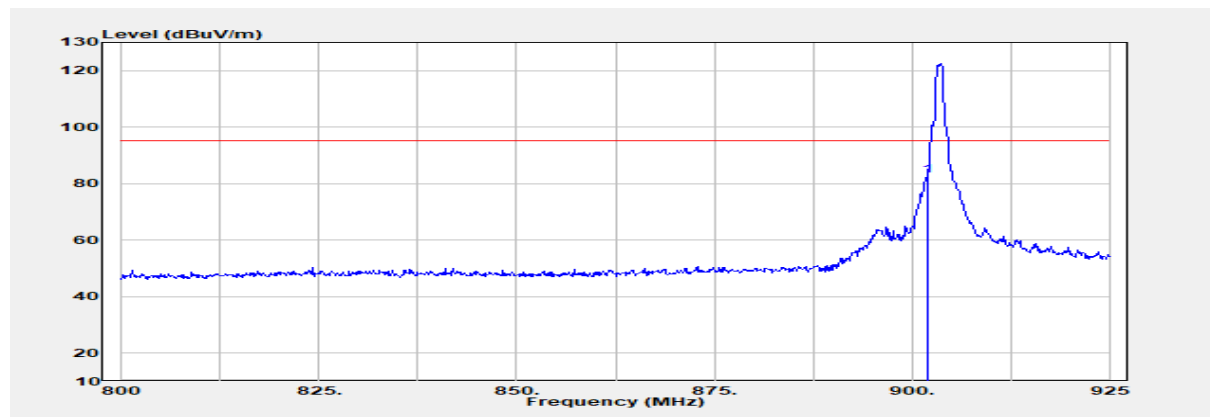
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	88.73	-5.82	82.91	95.06	-12.15

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :903.5 MHz

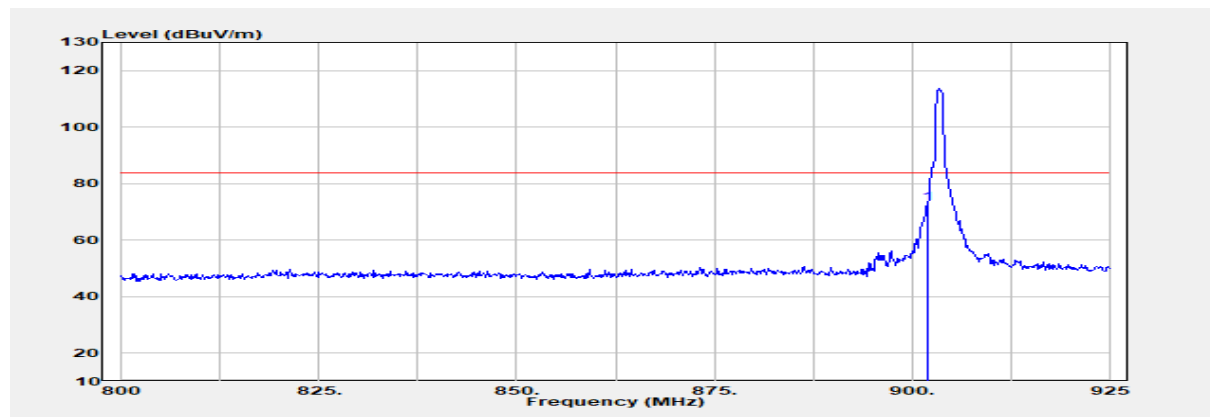
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	78.81	-5.82	72.99	83.71	-10.72

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :926.5 MHz

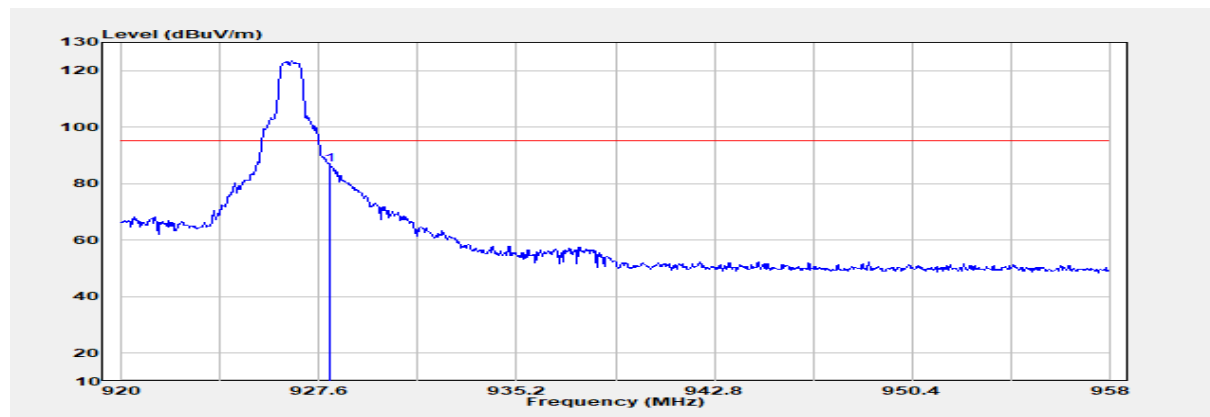
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
928.000	Peak	91.70	-4.86	86.85	95.06	-8.21

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :926.5 MHz

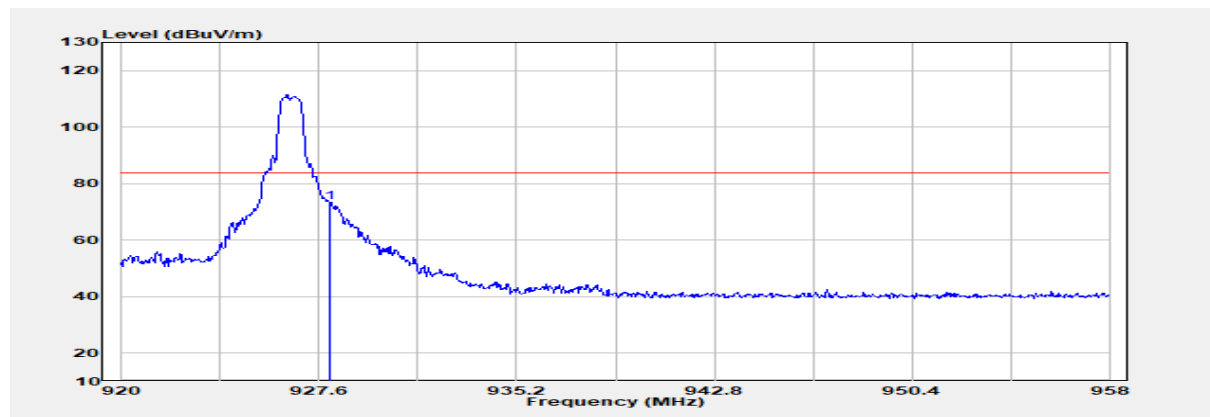
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
928.000	Peak	78.36	-4.86	73.51	83.71	-10.20

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :905 MHz

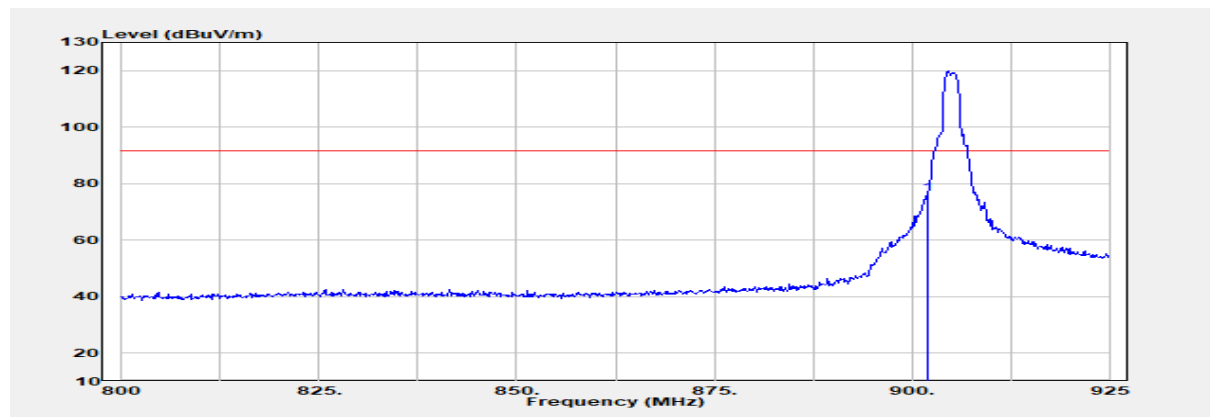
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	82.32	-5.82	76.50	91.77	-15.27

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :905 MHz

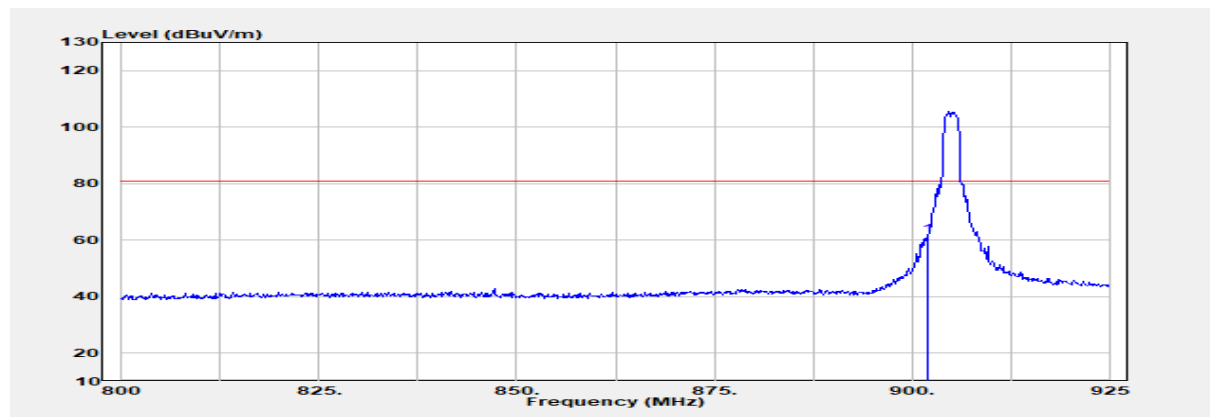
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	67.52	-5.82	61.69	80.82	-19.13

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :925 MHz

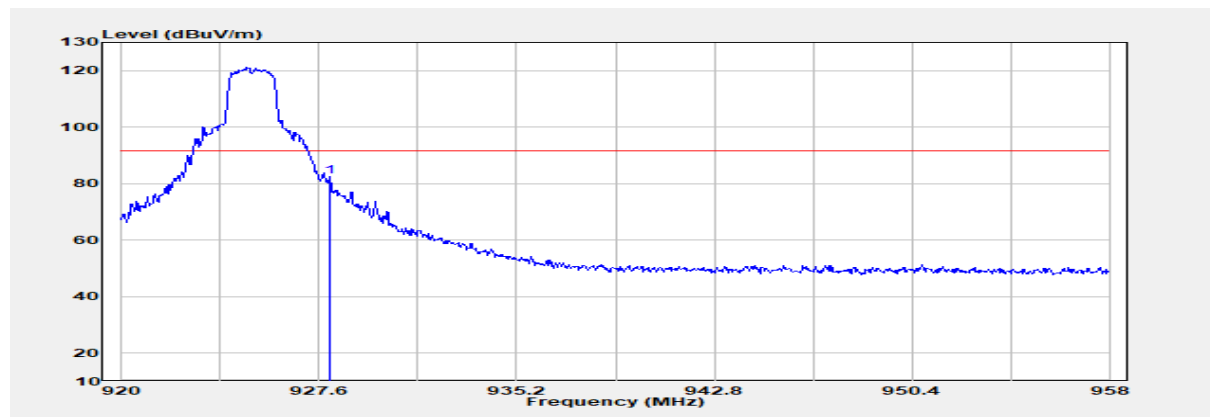
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
928.000	Peak	87.23	-4.86	82.37	91.77	-9.40

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :925 MHz

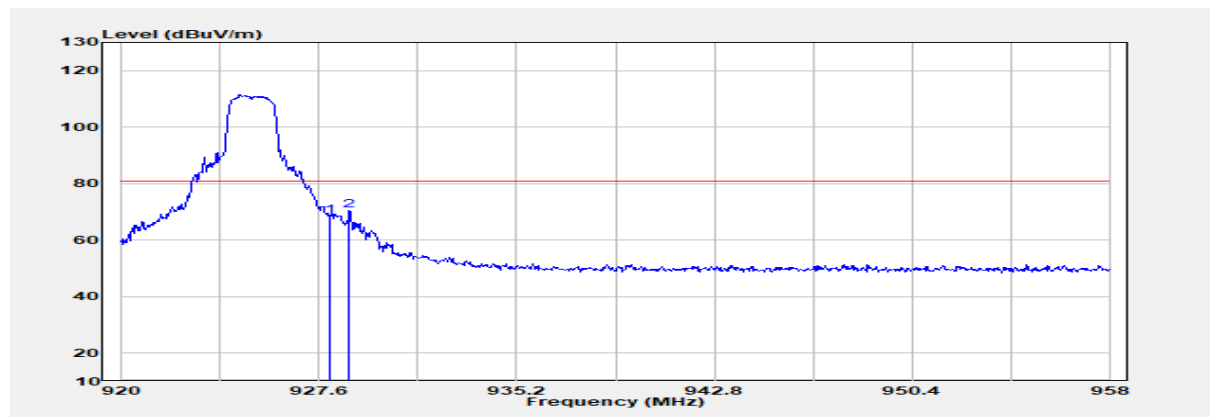
Temp./Humi. :21.9°C/52%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
928.000	Peak	73.49	-4.86	68.64	80.82	-12.18
928.740	Peak	75.40	-4.85	70.54	80.82	-10.28

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-27

Test Frequency :906 MHz

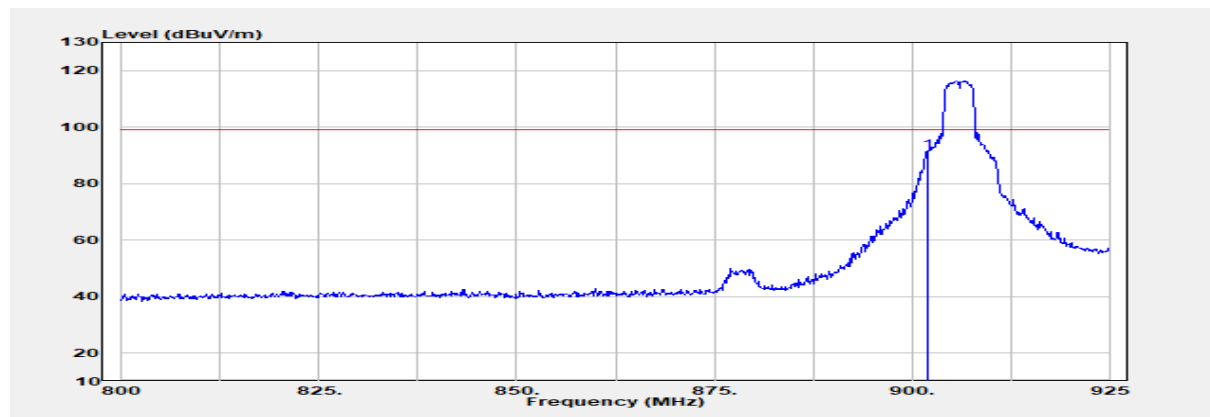
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	97.45	-5.82	91.62	99.11	-7.49

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-27

Test Frequency :906 MHz

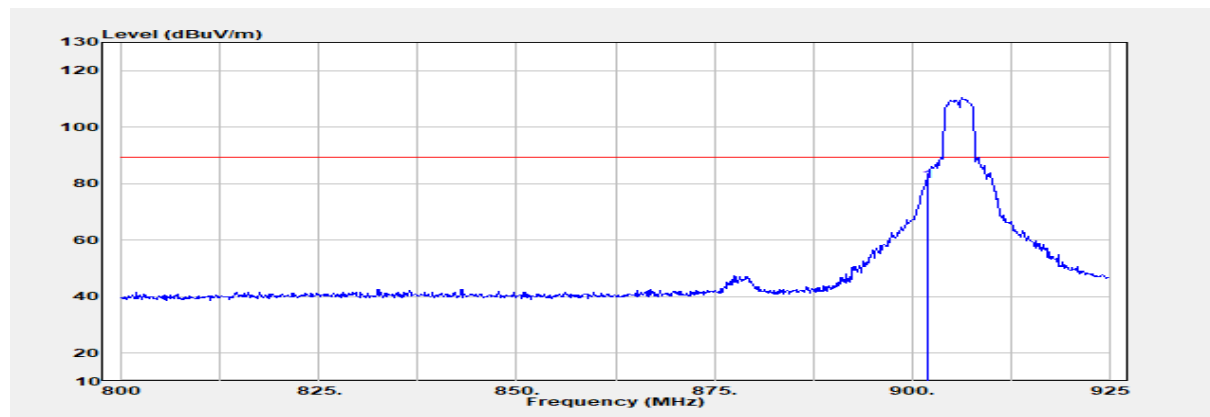
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	86.59	-5.82	80.77	89.19	-8.42

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-27

Test Frequency :926 MHz

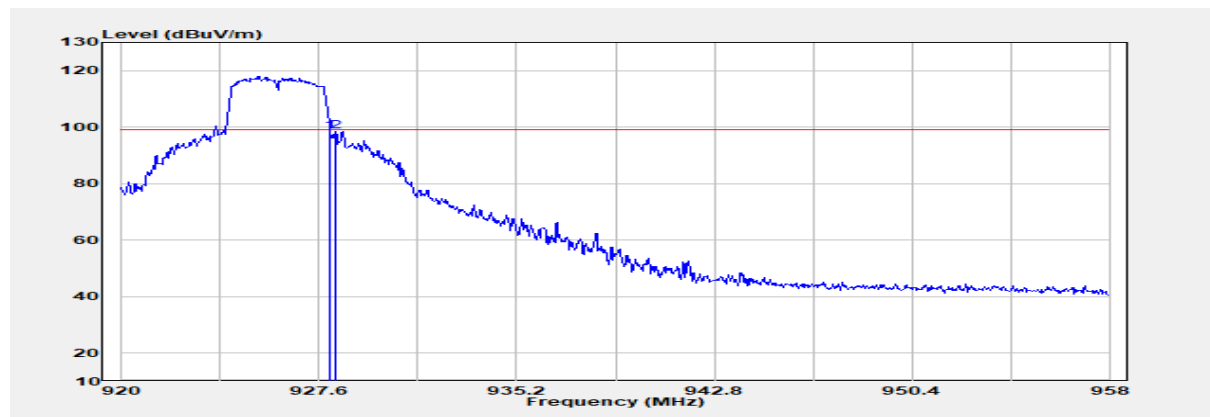
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
928.000	Peak	103.16	-4.86	98.30	99.11	-0.81
928.208	Peak	103.30	-4.86	98.44	99.11	-0.67

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-06-27

Test Frequency :926 MHz

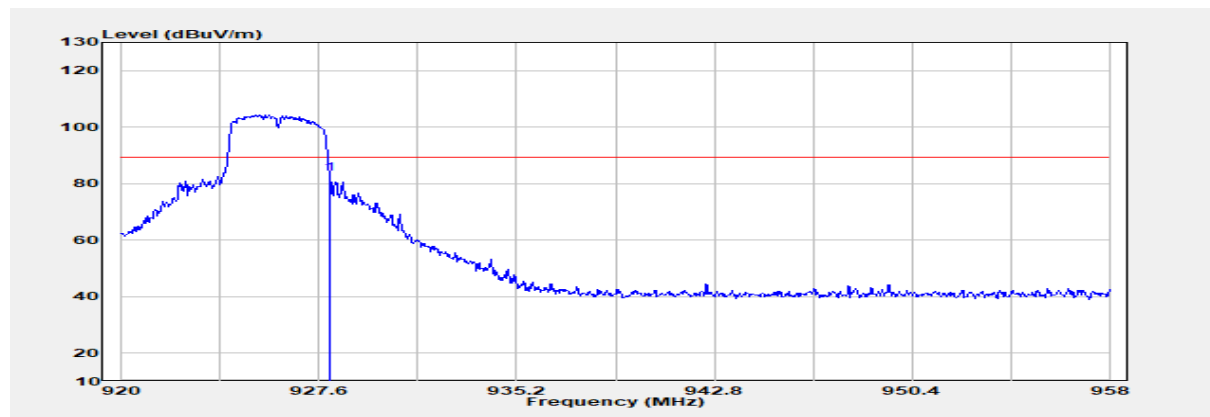
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
928.000	Peak	88.24	-4.86	83.39	89.19	-5.80

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-27

Test Frequency :908 MHz

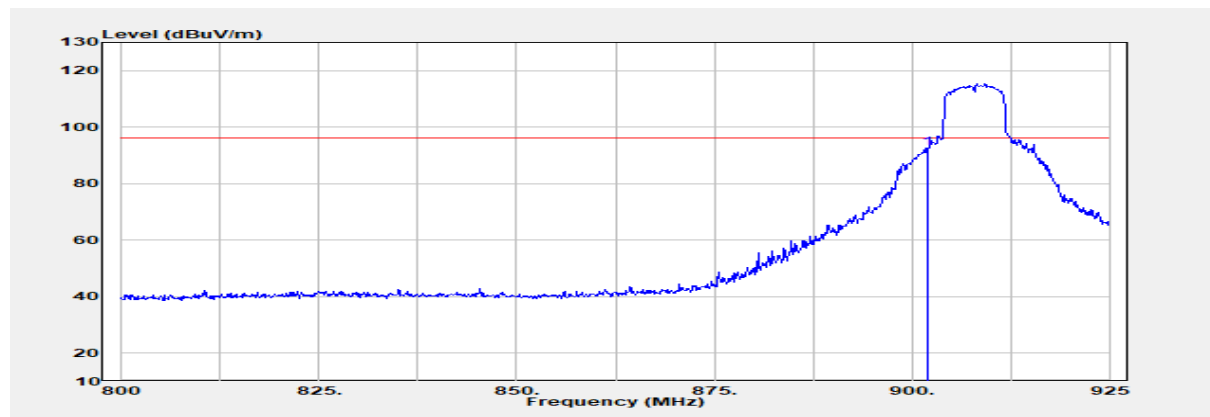
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.000	Peak	98.53	-5.82	92.70	96.29	-3.59

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-27

Test Frequency :908 MHz

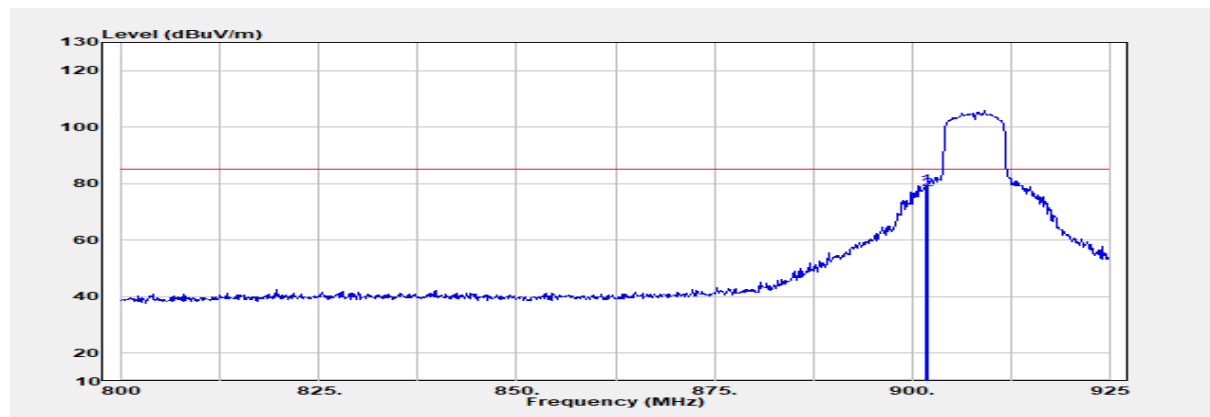
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
901.750	Peak	85.06	-5.83	79.22	85.03	-5.81
902.000	Peak	83.72	-5.82	77.89	85.03	-7.14

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-27

Test Frequency :924 MHz

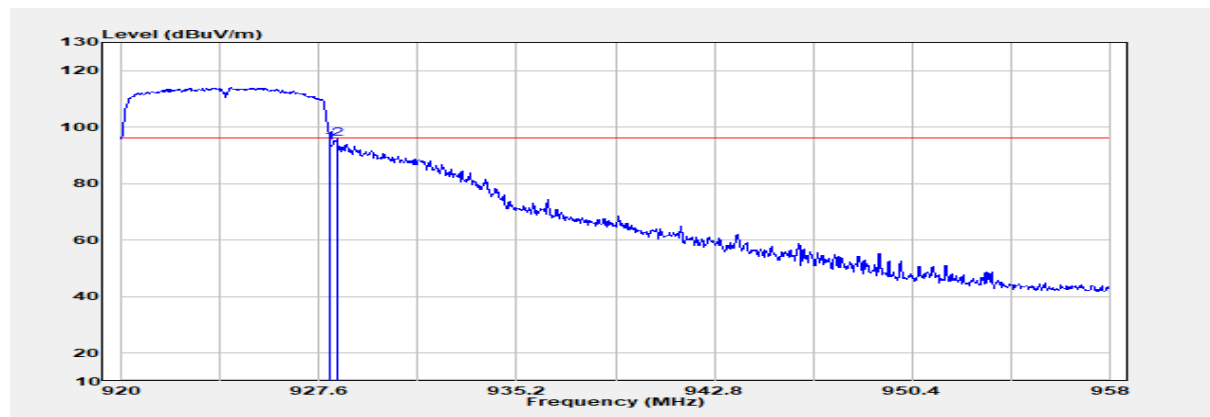
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
928.000	Peak	99.55	-4.86	94.70	96.29	-1.59
928.284	Peak	100.73	-4.86	95.88	96.29	-0.41

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-06-27

Test Frequency :924 MHz

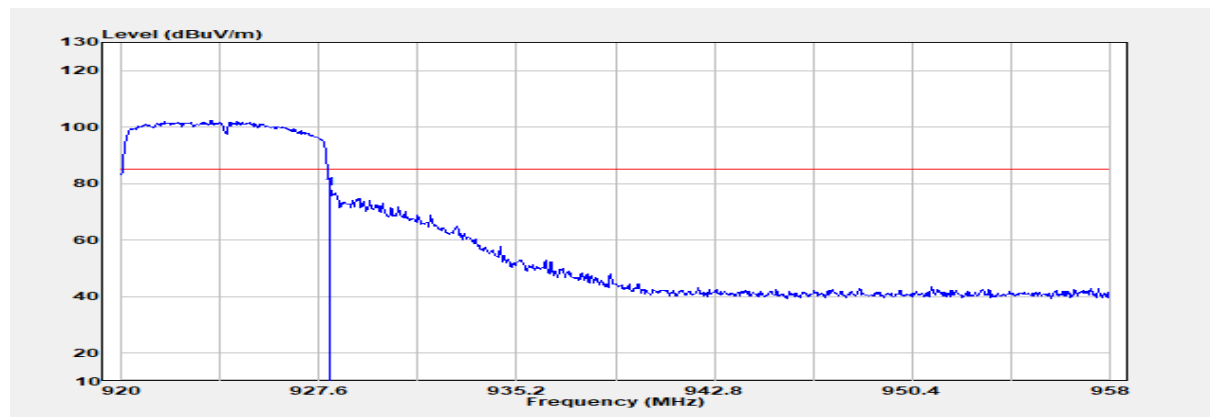
Temp./Humi. :22.4°C/55%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
928.000	Peak	83.07	-4.86	78.21	85.03	-6.82

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11.6.2 Radiated Spurious Emission

Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :914.5 MHz

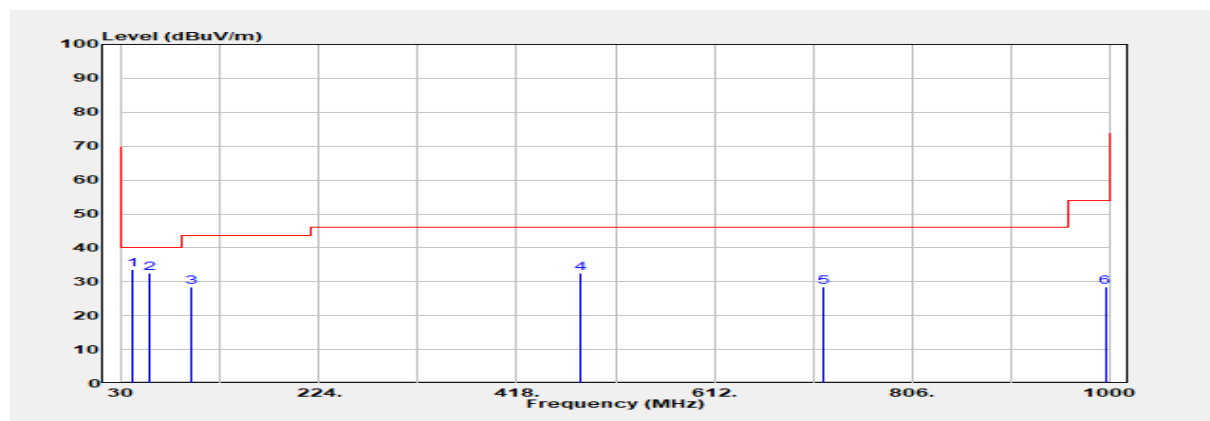
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
40.670	Peak	51.65	-17.96	33.69	40.00	-6.31
58.130	Peak	49.87	-17.30	32.57	40.00	-7.43
98.870	Peak	50.82	-22.25	28.58	43.50	-14.92
480.080	Peak	44.33	-11.92	32.41	46.00	-13.59
719.670	Peak	35.91	-7.40	28.51	46.00	-17.49
996.120	Peak	32.92	-4.56	28.35	54.00	-25.65

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :914.5 MHz

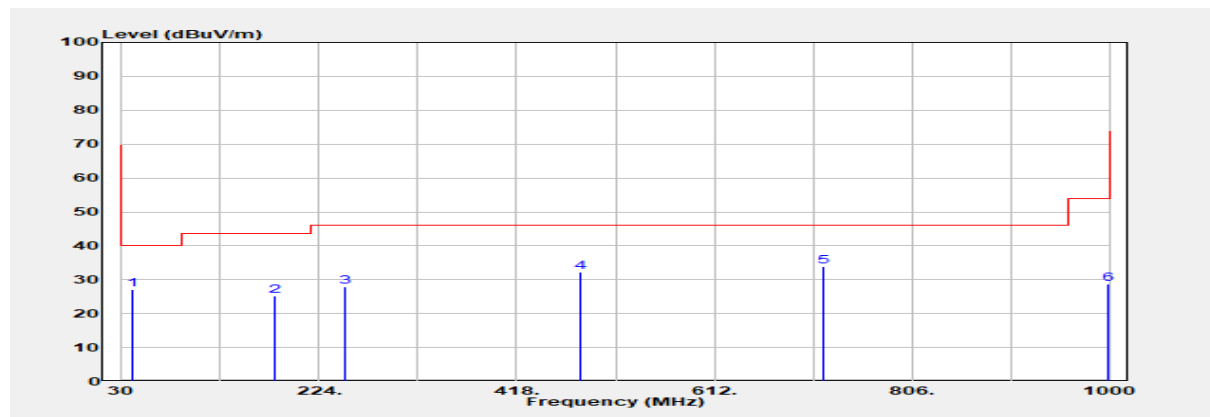
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.700	Peak	45.00	-18.02	26.99	40.00	-13.01
180.350	Peak	43.40	-18.30	25.10	43.50	-18.40
250.190	Peak	45.33	-17.32	28.01	46.00	-17.99
480.080	Peak	44.30	-11.92	32.38	46.00	-13.62
719.670	Peak	41.35	-7.40	33.95	46.00	-12.05
998.060	Peak	33.29	-4.51	28.79	54.00	-25.21

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :915 MHz

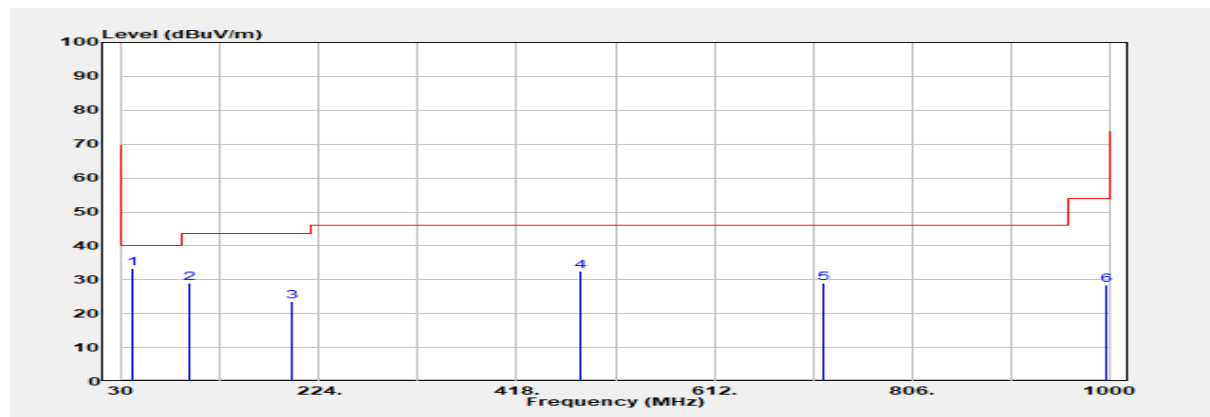
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.670	Peak	51.31	-17.96	33.35	40.00	-6.65
96.930	Peak	51.33	-22.33	29.00	43.50	-14.50
196.840	Peak	43.31	-19.68	23.63	43.50	-19.87
480.080	Peak	44.50	-11.92	32.58	46.00	-13.42
719.670	Peak	36.52	-7.40	29.13	46.00	-16.87
997.090	Peak	32.92	-4.54	28.39	54.00	-25.61

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :915 MHz

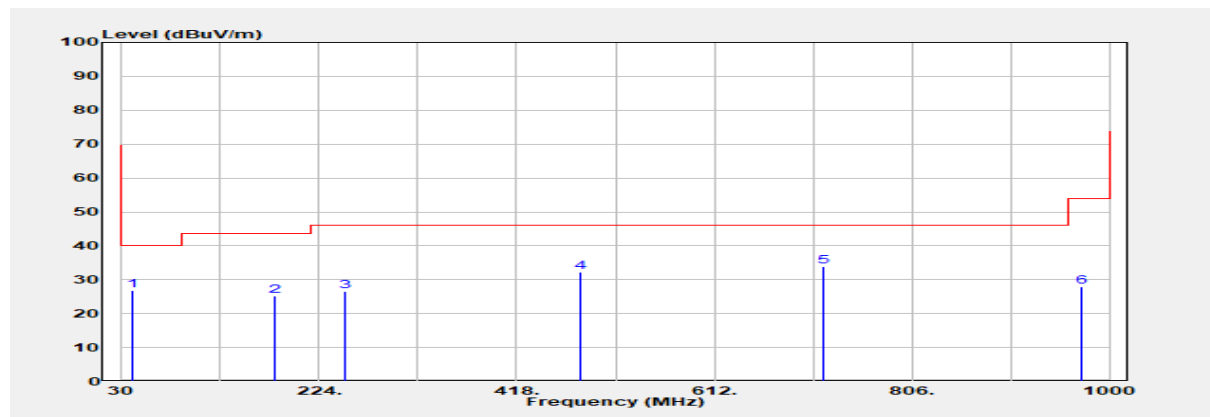
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.700	Peak	44.83	-18.02	26.82	40.00	-13.18
180.350	Peak	43.43	-18.30	25.13	43.50	-18.37
250.190	Peak	43.82	-17.32	26.50	46.00	-19.50
480.080	Peak	44.15	-11.92	32.23	46.00	-13.77
719.670	Peak	41.23	-7.40	33.83	46.00	-12.17
972.840	Peak	32.76	-4.74	28.02	54.00	-25.98

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :914 MHz

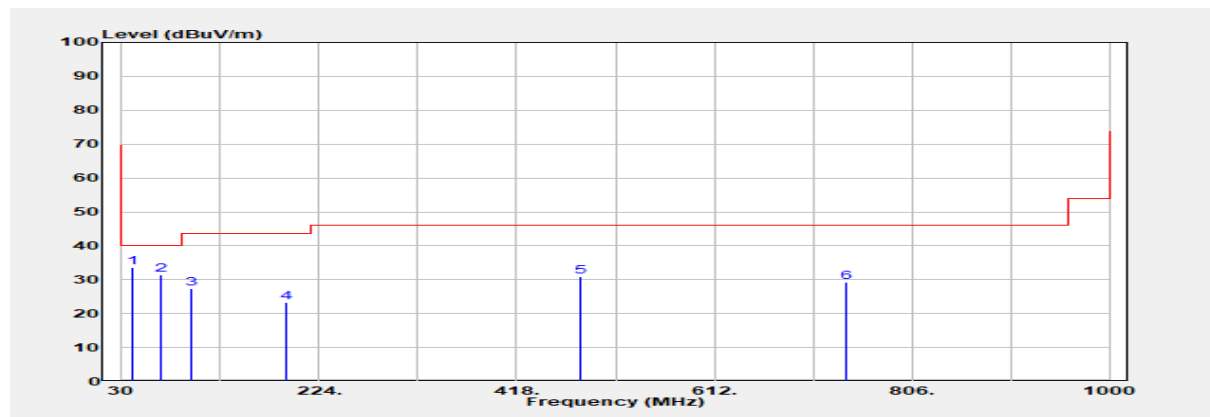
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.700	Peak	51.74	-18.02	33.72	40.00	-6.28
67.830	Peak	50.77	-19.33	31.44	40.00	-8.56
98.870	Peak	49.51	-22.25	27.27	43.50	-16.23
191.990	Peak	42.62	-19.37	23.25	43.50	-20.25
480.080	Peak	42.88	-11.92	30.96	46.00	-15.04
741.980	Peak	36.12	-6.79	29.34	46.00	-16.66

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :914 MHz

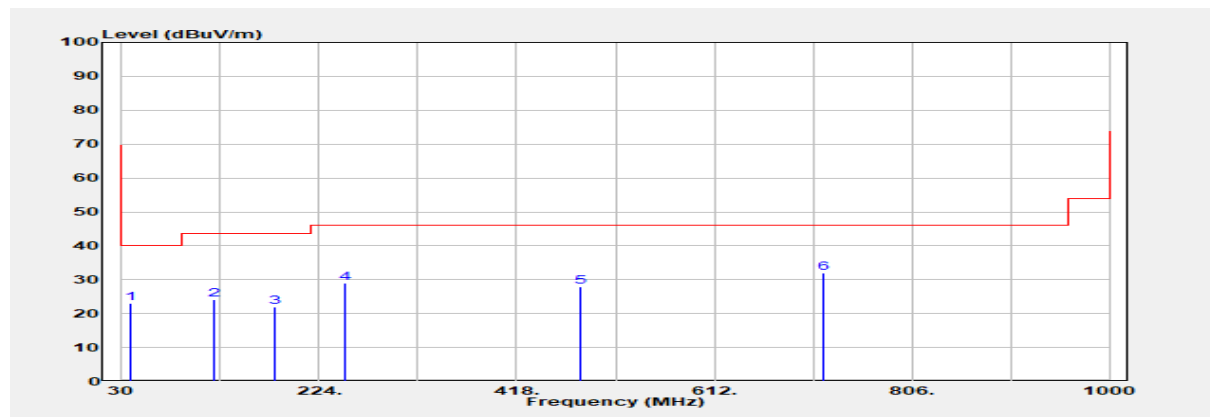
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
38.730	Peak	41.32	-18.19	23.13	40.00	-16.87
120.210	Peak	44.02	-19.88	24.14	43.50	-19.36
180.350	Peak	40.18	-18.30	21.88	43.50	-21.62
250.190	Peak	46.20	-17.32	28.88	46.00	-17.12
480.080	Peak	39.84	-11.92	27.92	46.00	-18.08
719.670	Peak	39.27	-7.40	31.87	46.00	-14.13

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

台灣檢驗科技股份有限公司

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Member of SGS Group

Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :916 MHz

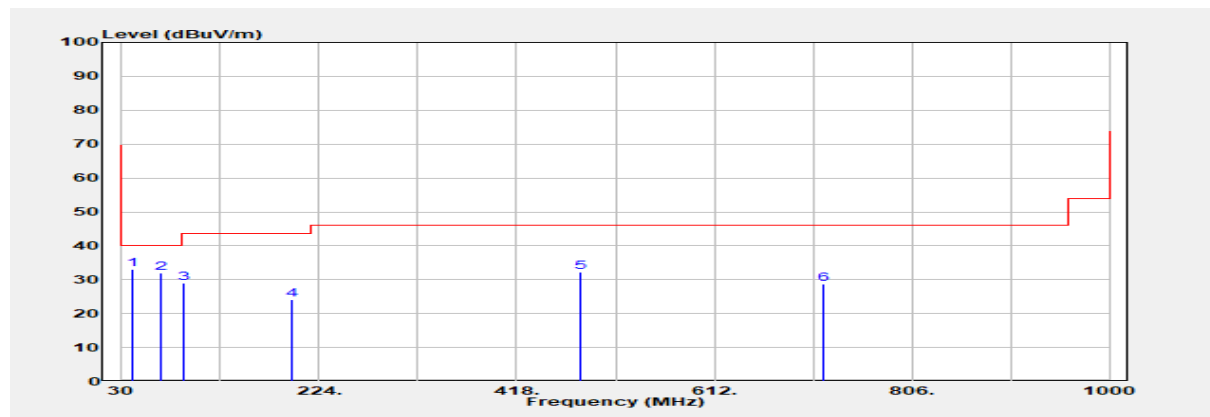
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.670	Peak	51.14	-17.96	33.18	40.00	-6.82
67.830	Peak	51.22	-19.33	31.89	40.00	-8.11
90.140	Peak	51.83	-22.94	28.88	43.50	-14.62
196.840	Peak	43.67	-19.68	23.99	43.50	-19.51
480.080	Peak	44.15	-11.92	32.23	46.00	-13.77
719.670	Peak	36.15	-7.40	28.75	46.00	-17.25

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :916 MHz

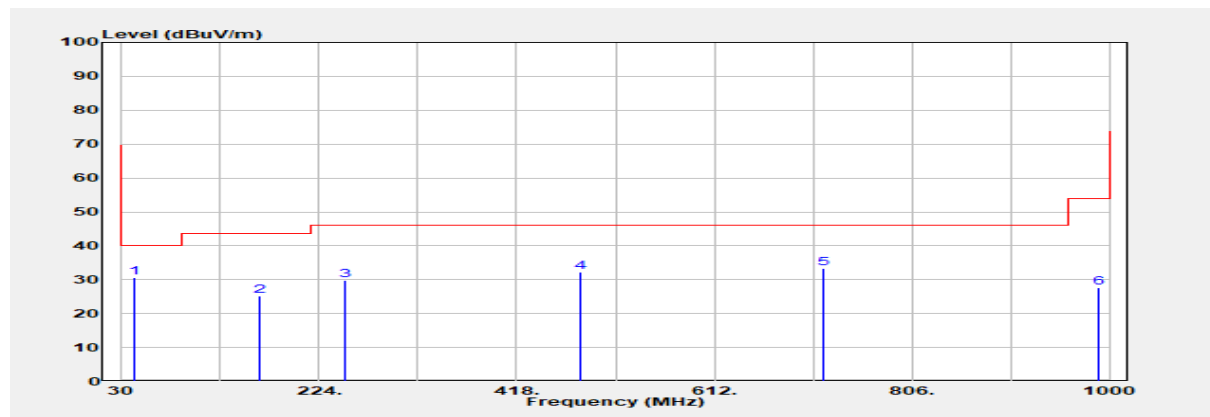
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
41.640	Peak	48.36	-17.76	30.60	40.00	-9.40
164.830	Peak	42.10	-16.88	25.22	43.50	-18.28
250.190	Peak	47.09	-17.32	29.77	46.00	-16.23
480.080	Peak	44.13	-11.92	32.21	46.00	-13.79
719.670	Peak	40.64	-7.40	33.24	46.00	-12.76
989.330	Peak	32.54	-4.84	27.70	54.00	-26.30

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :903.5 MHz

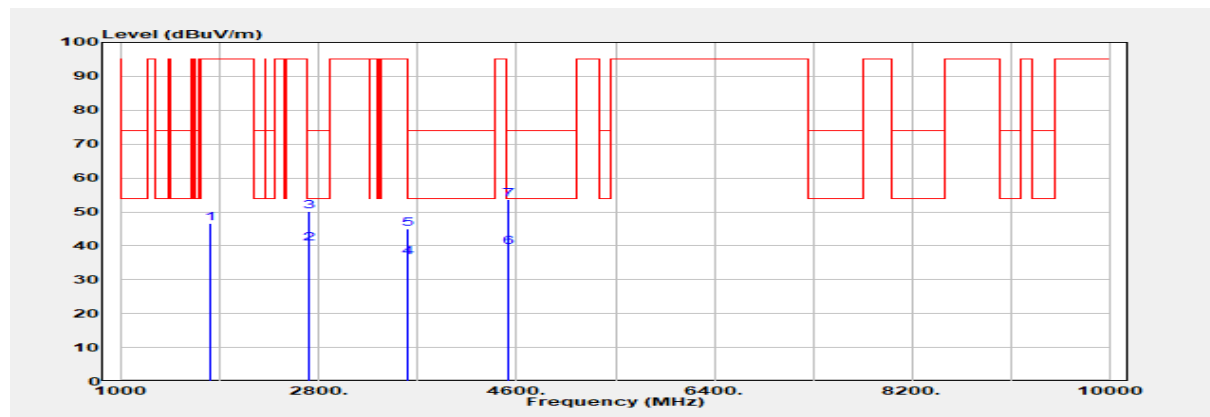
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1807.000	Peak	54.39	-7.91	46.48	95.06	-48.58
2710.500	Average	44.18	-3.64	40.54	54.00	-13.46
2710.500	Peak	53.82	-3.64	50.18	74.00	-23.82
3614.000	Average	38.81	-2.24	36.57	54.00	-17.43
3614.000	Peak	47.31	-2.24	45.07	74.00	-28.93
4517.500	Average	39.61	-0.10	39.50	54.00	-14.50
4517.500	Peak	53.87	-0.10	53.77	74.00	-20.23

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :903.5 MHz

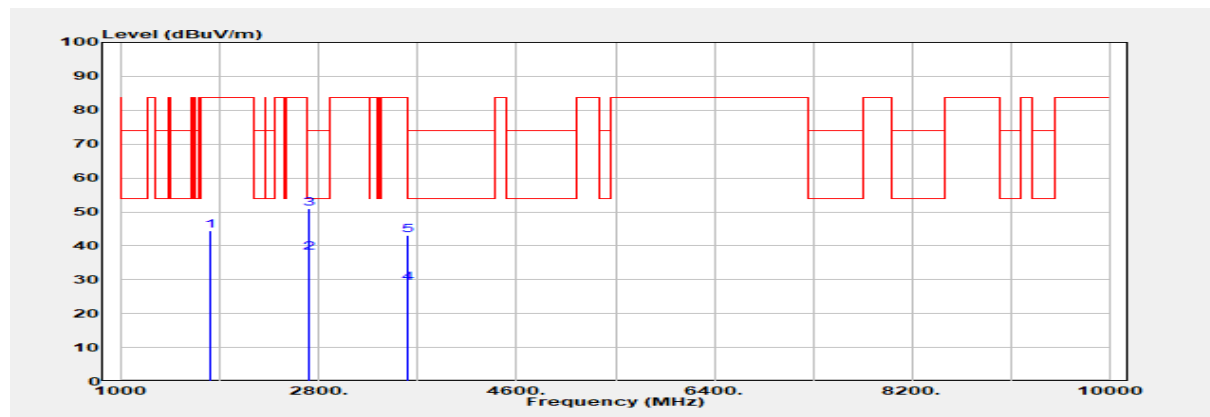
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1807.000	Peak	52.47	-7.91	44.57	83.71	-39.14
2710.000	Average	41.61	-3.63	37.98	54.00	-16.02
2710.000	Peak	54.71	-3.63	51.08	74.00	-22.92
3614.000	Average	31.31	-2.24	29.07	54.00	-24.93
3614.000	Peak	45.29	-2.24	43.04	74.00	-30.96

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :914.5 MHz

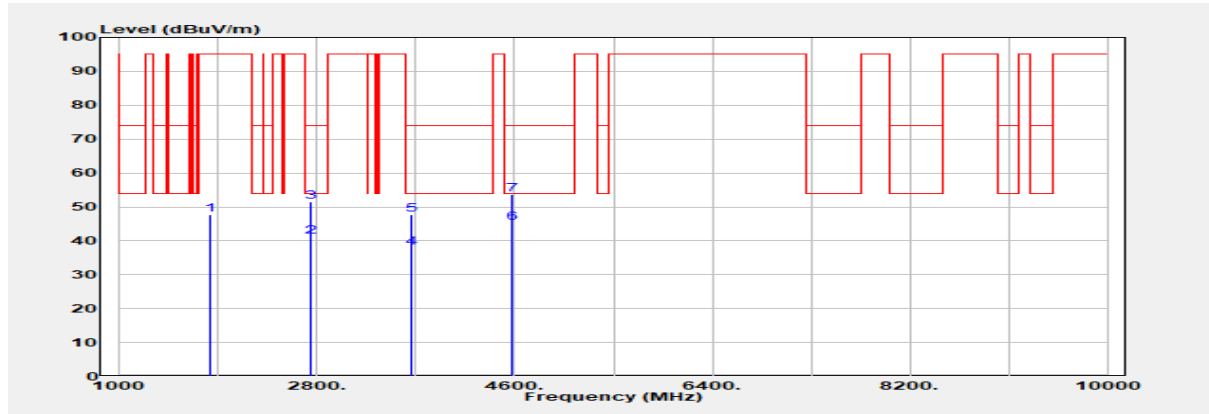
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1829.000	Peak	55.62	-7.87	47.75	95.06	-47.31
2743.500	Average	45.19	-3.95	41.23	54.00	-12.77
2743.500	Peak	55.37	-3.95	51.42	74.00	-22.58
3658.000	Average	40.22	-2.15	38.07	54.00	-15.93
3658.000	Peak	49.98	-2.15	47.83	74.00	-26.17
4572.500	Average	44.98	0.40	45.38	54.00	-8.62
4572.500	Peak	53.37	0.40	53.76	74.00	-20.24

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :914.5 MHz

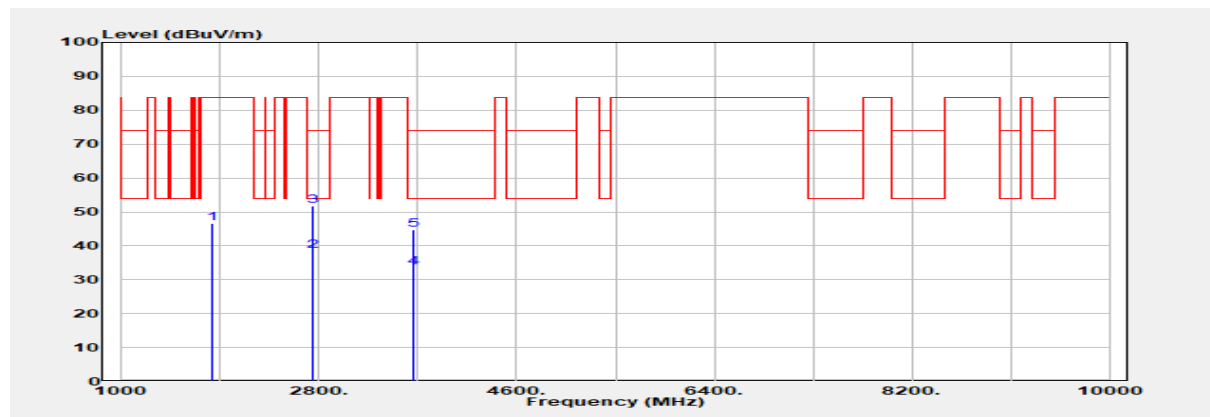
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1829.000	Peak	54.55	-7.87	46.68	83.71	-37.03
2743.500	Average	42.40	-3.95	38.44	54.00	-15.56
2743.500	Peak	55.62	-3.95	51.67	74.00	-22.33
3658.000	Average	35.87	-2.15	33.72	54.00	-20.28
3658.000	Peak	46.82	-2.15	44.67	74.00	-29.33

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :926.5 MHz

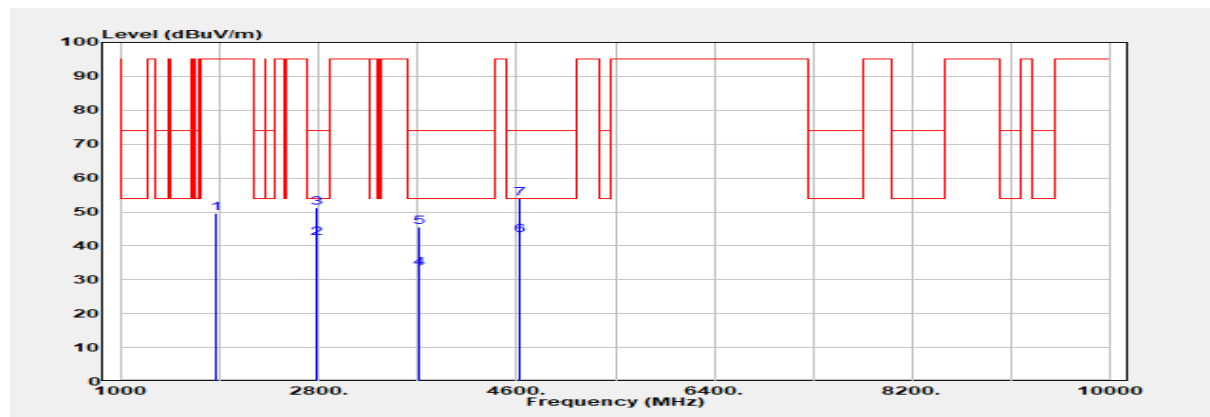
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1853.000	Peak	57.36	-7.84	49.52	95.06	-45.54
2779.500	Average	46.28	-4.08	42.20	54.00	-11.80
2779.500	Peak	55.32	-4.08	51.24	74.00	-22.76
3706.000	Average	35.17	-1.82	33.35	54.00	-20.65
3706.000	Peak	47.37	-1.82	45.55	74.00	-28.45
4632.500	Average	42.24	0.94	43.17	54.00	-10.83
4632.500	Peak	53.02	0.94	53.95	74.00	-20.05

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 1M

Test Date :2024-07-05

Test Frequency :926.5 MHz

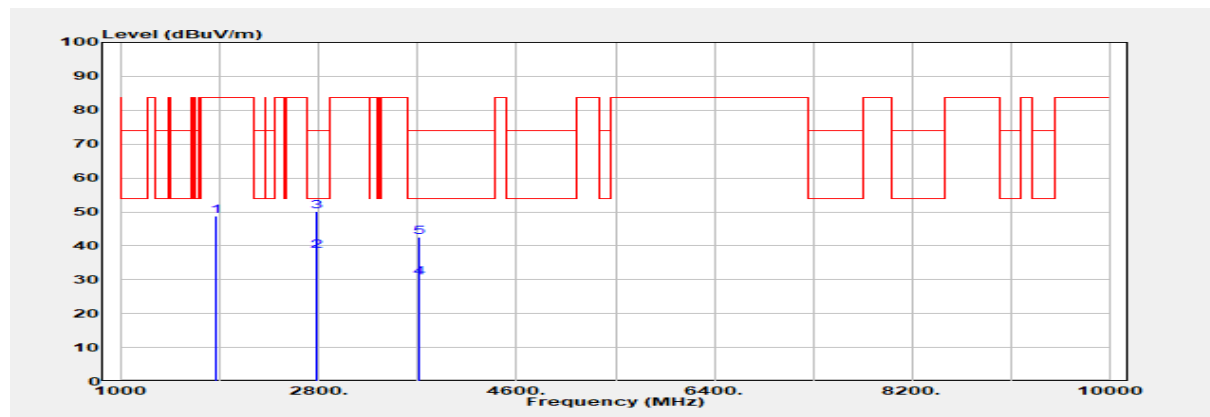
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1853.000	Peak	56.64	-7.84	48.80	83.71	-34.91
2779.500	Average	42.69	-4.08	38.60	54.00	-15.40
2779.500	Peak	54.35	-4.08	50.26	74.00	-23.74
3706.000	Average	32.40	-1.82	30.58	54.00	-23.42
3706.000	Peak	44.35	-1.82	42.53	74.00	-31.47

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :905 MHz

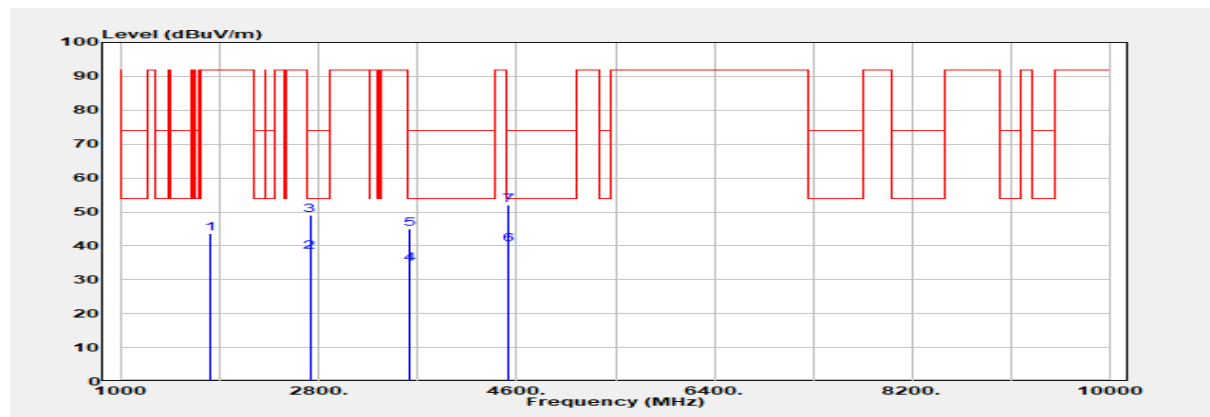
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1810.000	Peak	51.50	-7.90	43.59	91.77	-48.18
2715.000	Average	41.92	-3.68	38.23	54.00	-15.77
2715.000	Peak	52.75	-3.68	49.07	74.00	-24.93
3620.000	Average	36.88	-2.24	34.65	54.00	-19.35
3620.000	Peak	47.30	-2.24	45.06	74.00	-28.94
4525.000	Average	40.35	-0.07	40.28	54.00	-13.72
4525.000	Peak	52.07	-0.07	52.00	74.00	-22.00

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :905 MHz

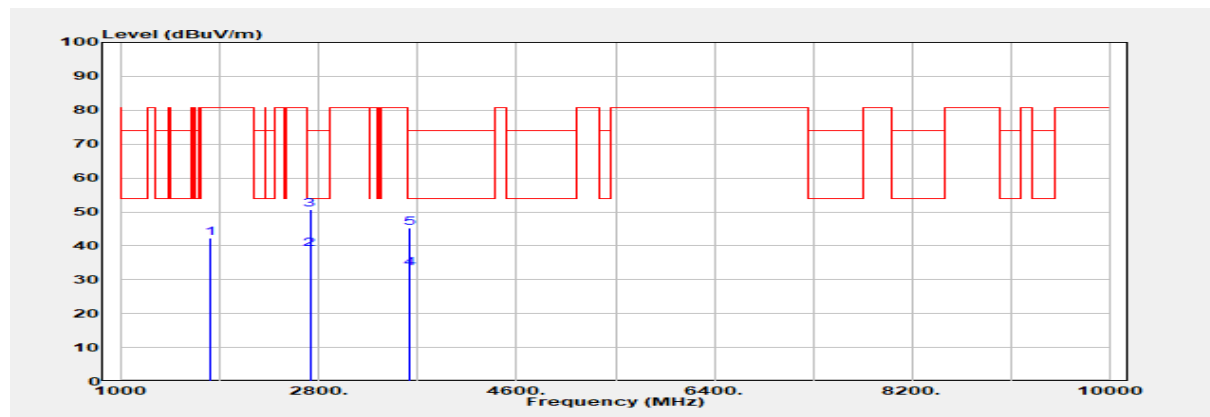
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1810.000	Peak	50.19	-7.90	42.29	80.82	-38.53
2715.000	Average	42.66	-3.68	38.98	54.00	-15.02
2715.000	Peak	54.36	-3.68	50.68	74.00	-23.32
3620.000	Average	35.62	-2.24	33.39	54.00	-20.61
3620.000	Peak	47.39	-2.24	45.15	74.00	-28.85

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :915 MHz

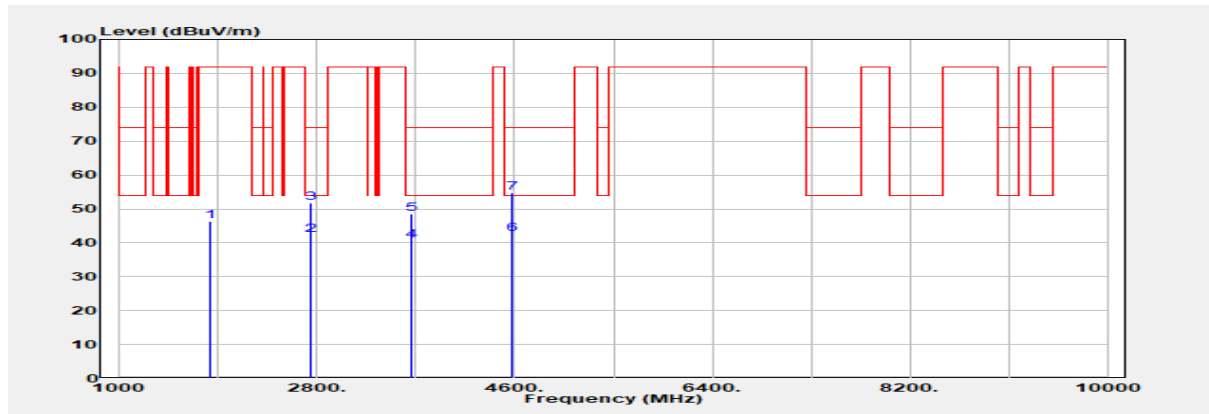
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1830.000	Peak	54.32	-7.87	46.44	91.77	-45.33
2745.000	Average	46.18	-3.97	42.21	54.00	-11.79
2745.000	Peak	55.62	-3.97	51.65	74.00	-22.35
3660.000	Average	42.68	-2.13	40.55	54.00	-13.45
3660.000	Peak	50.70	-2.13	48.56	74.00	-25.44
4575.000	Average	42.16	0.44	42.59	54.00	-11.41
4575.000	Peak	54.37	0.44	54.80	74.00	-19.20

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :915 MHz

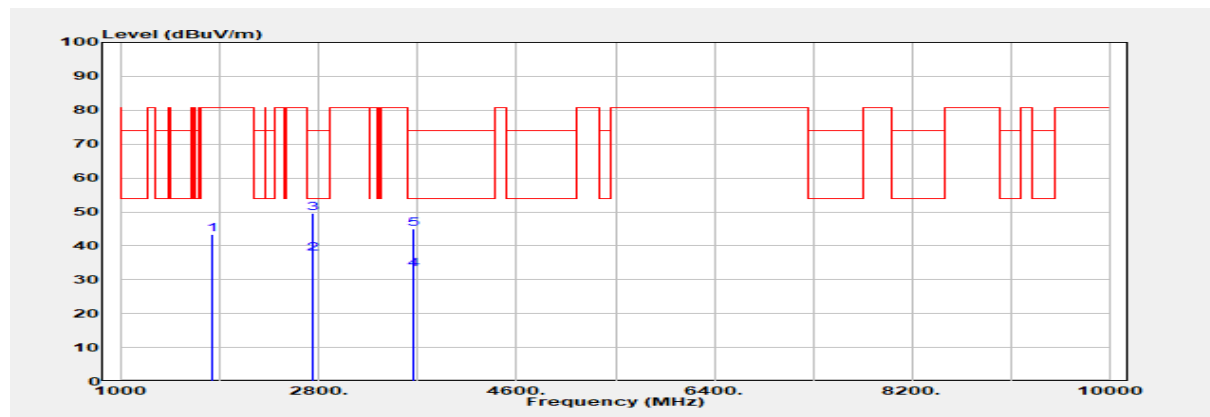
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1830.000	Peak	51.25	-7.87	43.38	80.82	-37.44
2745.000	Average	41.66	-3.97	37.69	54.00	-16.31
2745.000	Peak	53.57	-3.97	49.60	74.00	-24.40
3660.000	Average	35.16	-2.13	33.03	54.00	-20.97
3660.000	Peak	47.16	-2.13	45.02	74.00	-28.98

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :925 MHz

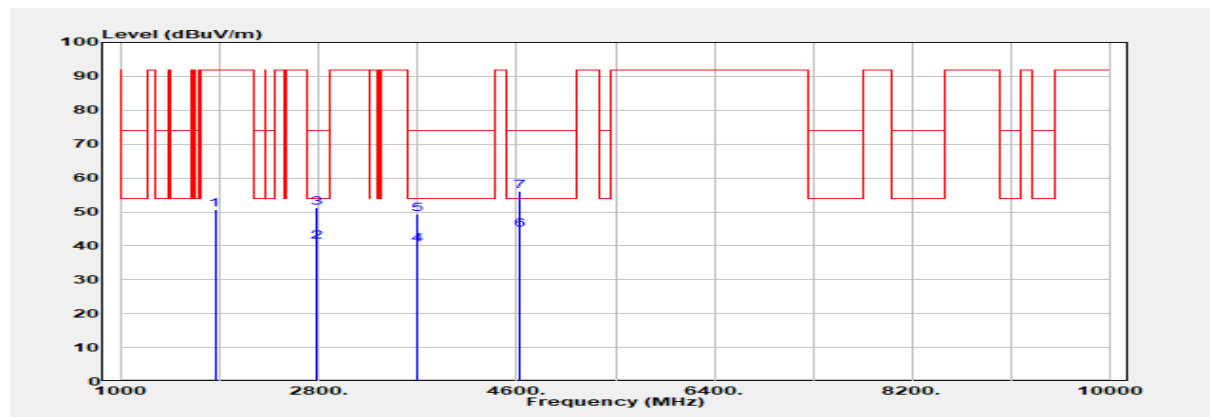
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1850.000	Peak	58.39	-7.84	50.55	91.77	-41.22
2775.000	Average	45.16	-4.07	41.09	54.00	-12.91
2775.000	Peak	55.16	-4.07	51.09	74.00	-22.91
3700.000	Average	42.17	-1.81	40.36	54.00	-13.64
3700.000	Peak	51.15	-1.81	49.34	74.00	-24.66
4625.000	Average	43.85	0.91	44.76	54.00	-9.24
4625.000	Peak	55.17	0.91	56.08	74.00	-17.92

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 2M

Test Date :2024-07-05

Test Frequency :925 MHz

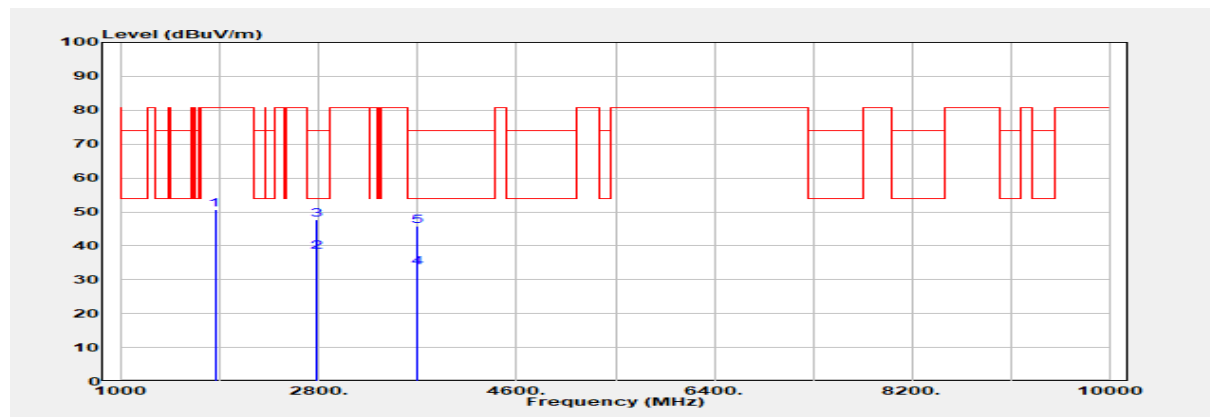
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1850.000	Peak	58.43	-7.84	50.59	80.82	-30.23
2775.000	Average	42.17	-4.07	38.10	54.00	-15.90
2775.000	Peak	51.67	-4.07	47.60	74.00	-26.40
3700.000	Average	35.44	-1.81	33.63	54.00	-20.37
3700.000	Peak	47.64	-1.81	45.83	74.00	-28.17

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :906 MHz

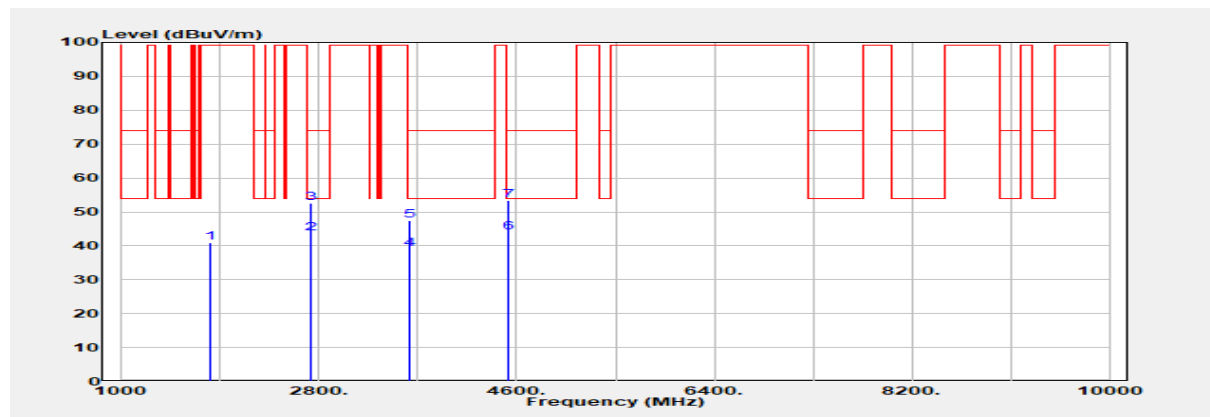
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
1812.000	Peak	48.92	-7.90	41.02	99.11	-58.09
2718.000	Average	47.38	-3.71	43.67	54.00	-10.33
2718.000	Peak	56.18	-3.71	52.47	74.00	-21.53
3624.000	Average	41.32	-2.23	39.09	54.00	-14.91
3624.000	Peak	49.75	-2.23	47.52	74.00	-26.48
4530.000	Average	43.97	-0.05	43.92	54.00	-10.08
4530.000	Peak	53.57	-0.05	53.52	74.00	-20.48

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :906 MHz

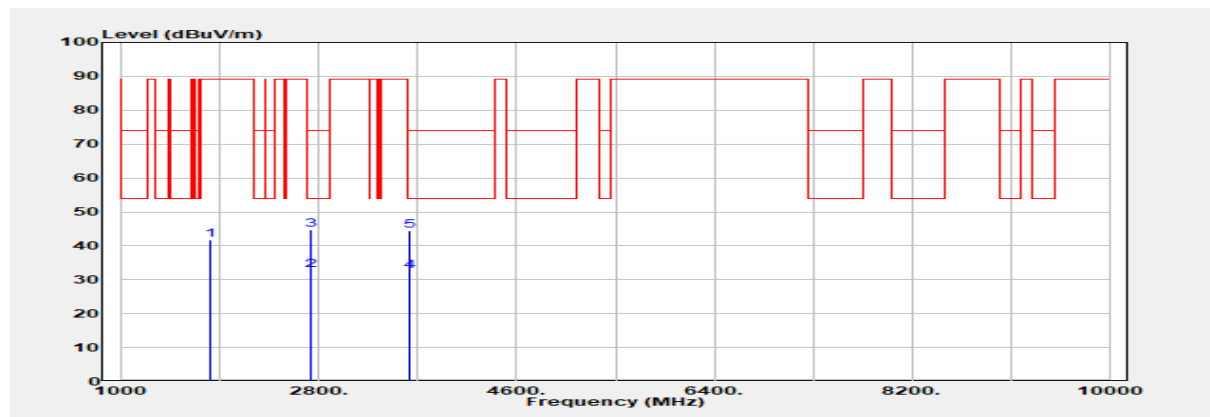
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1812.000	Peak	49.65	-7.90	41.75	89.19	-47.44
2718.000	Average	36.48	-3.71	32.76	54.00	-21.24
2718.000	Peak	48.51	-3.71	44.80	74.00	-29.20
3624.000	Average	34.81	-2.23	32.58	54.00	-21.42
3624.000	Peak	46.78	-2.23	44.55	74.00	-29.45

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :914 MHz

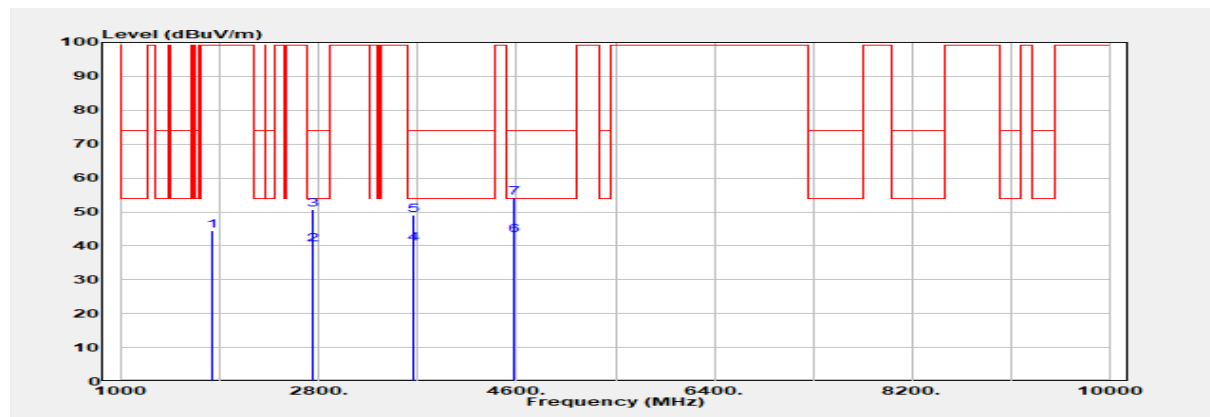
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1828.000	Peak	52.19	-7.87	44.32	99.11	-54.79
2742.000	Average	44.27	-3.94	40.33	54.00	-13.67
2742.000	Peak	54.59	-3.94	50.65	74.00	-23.35
3656.000	Average	42.81	-2.17	40.64	54.00	-13.36
3656.000	Peak	51.27	-2.17	49.10	74.00	-24.90
4570.000	Average	42.75	0.36	43.10	54.00	-10.90
4570.000	Peak	53.74	0.36	54.10	74.00	-19.90

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :914 MHz

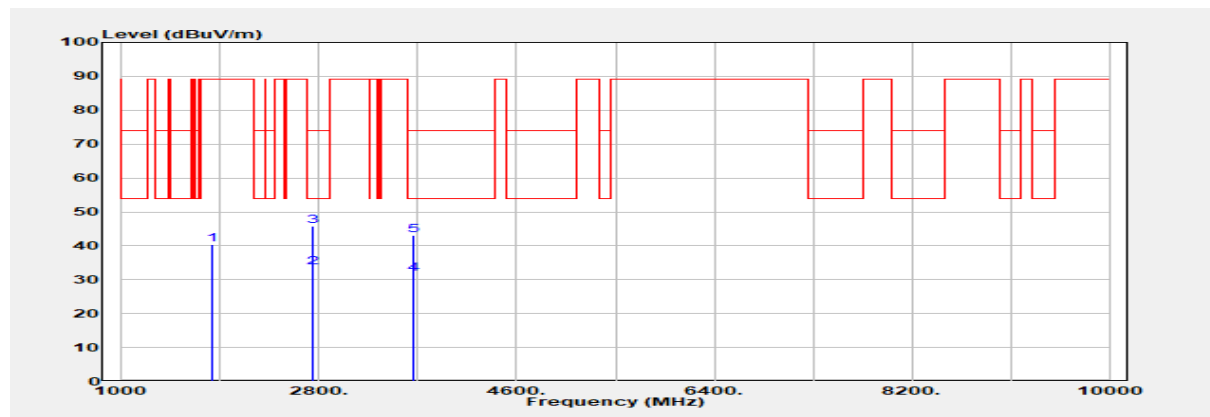
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1828.000	Peak	48.38	-7.87	40.50	89.19	-48.69
2742.000	Average	37.64	-3.94	33.70	54.00	-20.30
2742.000	Peak	49.67	-3.94	45.73	74.00	-28.27
3656.000	Average	33.75	-2.17	31.58	54.00	-22.42
3656.000	Peak	45.28	-2.17	43.11	74.00	-30.89

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :926 MHz

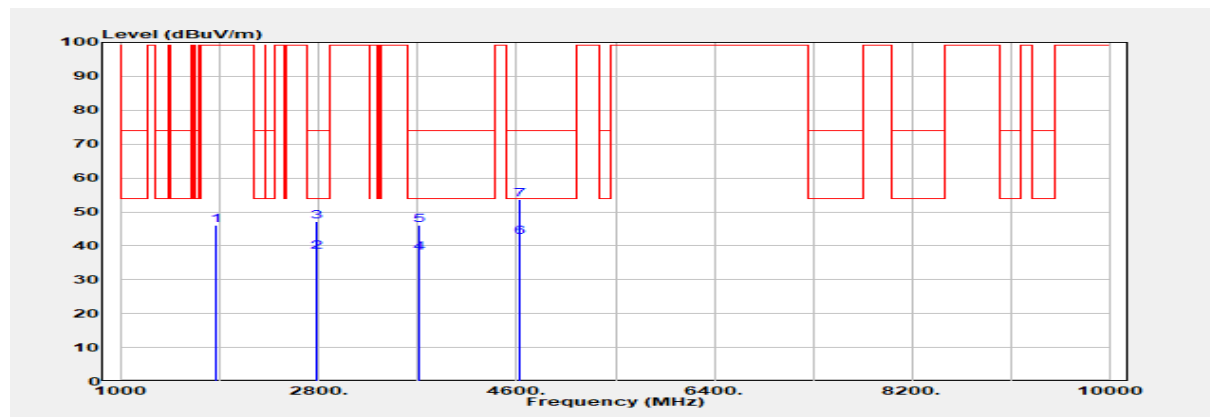
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1852.000	Peak	53.98	-7.84	46.14	99.11	-52.97
2778.000	Average	42.38	-4.08	38.30	54.00	-15.70
2778.000	Peak	51.35	-4.08	47.27	74.00	-26.73
3704.000	Average	39.78	-1.82	37.96	54.00	-16.04
3704.000	Peak	47.87	-1.82	46.05	74.00	-27.95
4630.000	Average	41.66	0.93	42.59	54.00	-11.41
4630.000	Peak	52.74	0.93	53.67	74.00	-20.33

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 4M

Test Date :2024-07-05

Test Frequency :926 MHz

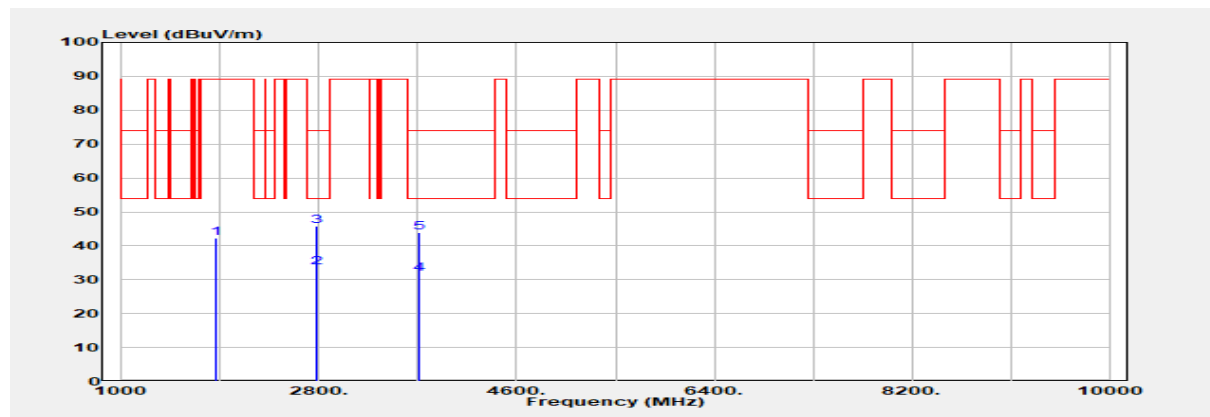
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
1852.000	Peak	50.12	-7.84	42.28	89.19	-46.91
2778.000	Average	37.81	-4.08	33.73	54.00	-20.27
2778.000	Peak	49.88	-4.08	45.80	74.00	-28.20
3704.000	Average	33.64	-1.82	31.82	54.00	-22.18
3704.000	Peak	45.81	-1.82	43.99	74.00	-30.01

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :908 MHz

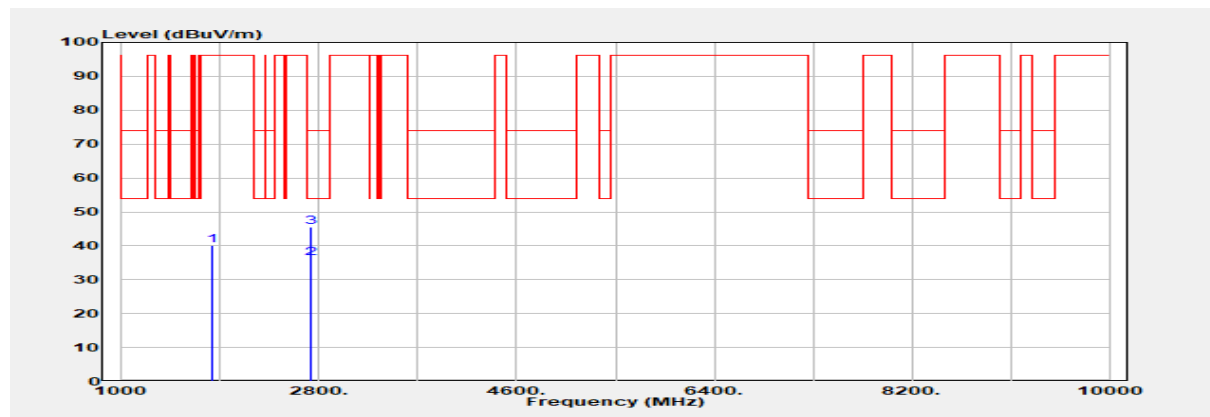
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
1816.000	Peak	48.06	-7.89	40.17	96.29	-56.12
2724.000	Average	40.11	-3.77	36.34	54.00	-17.66
2724.000	Peak	49.31	-3.77	45.54	74.00	-28.46

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :908 MHz

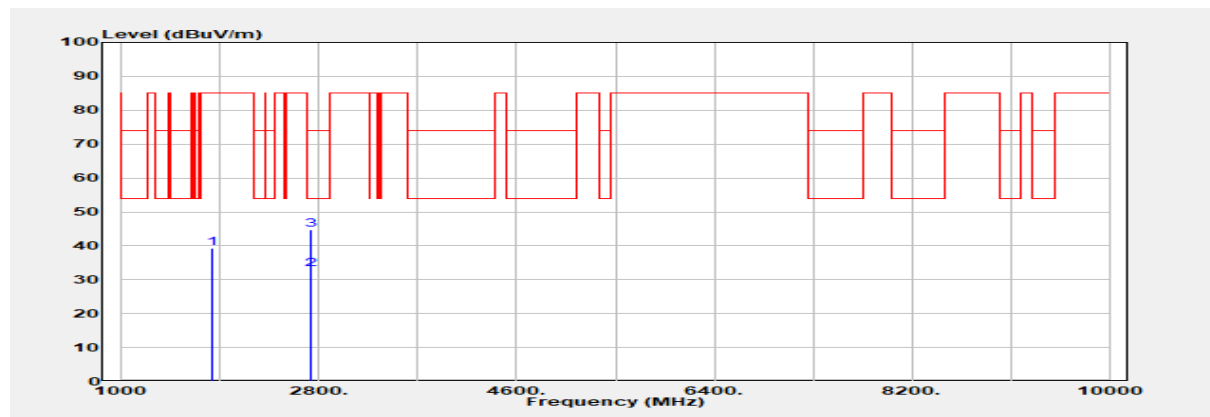
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1816.000	Peak	47.14	-7.89	39.24	85.03	-45.79
2724.000	Average	36.94	-3.77	33.17	54.00	-20.83
2724.000	Peak	48.61	-3.77	44.84	74.00	-29.16

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :916 MHz

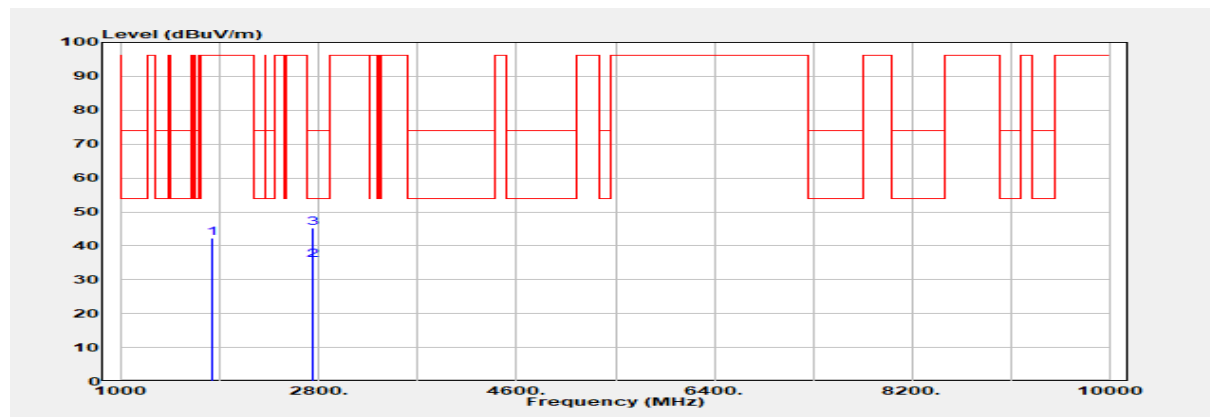
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
1832.000	Peak	50.23	-7.87	42.36	96.29	-53.93
2748.000	Average	39.71	-4.00	35.71	54.00	-18.29
2748.000	Peak	49.13	-4.00	45.13	74.00	-28.87

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Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :916 MHz

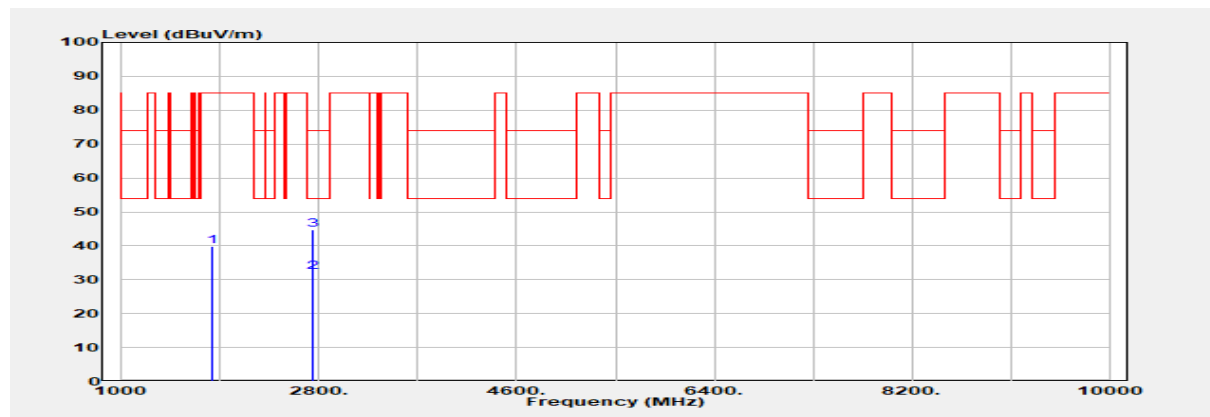
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1832.000	Peak	47.65	-7.87	39.79	85.03	-45.24
2748.000	Average	36.32	-4.00	32.32	54.00	-21.68
2748.000	Peak	48.63	-4.00	44.63	74.00	-29.37

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :924 MHz

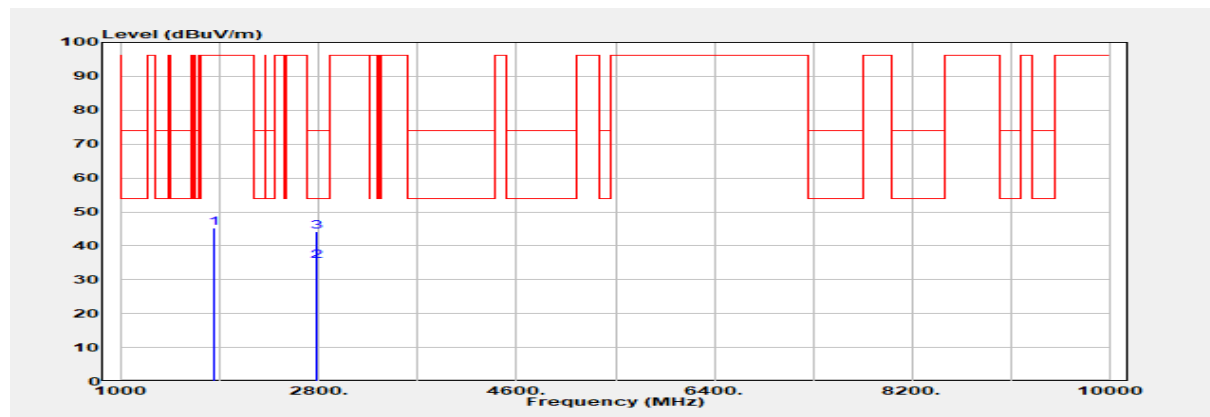
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
1848.000	Peak	53.07	-7.84	45.23	96.29	-51.06
2772.000	Average	39.65	-4.07	35.58	54.00	-18.42
2772.000	Peak	48.31	-4.07	44.24	74.00	-29.76

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Report Number :TERF2406001545E2

Test Site :SAC D

Operation Mode :802.11ah 8M

Test Date :2024-07-05

Test Frequency :924 MHz

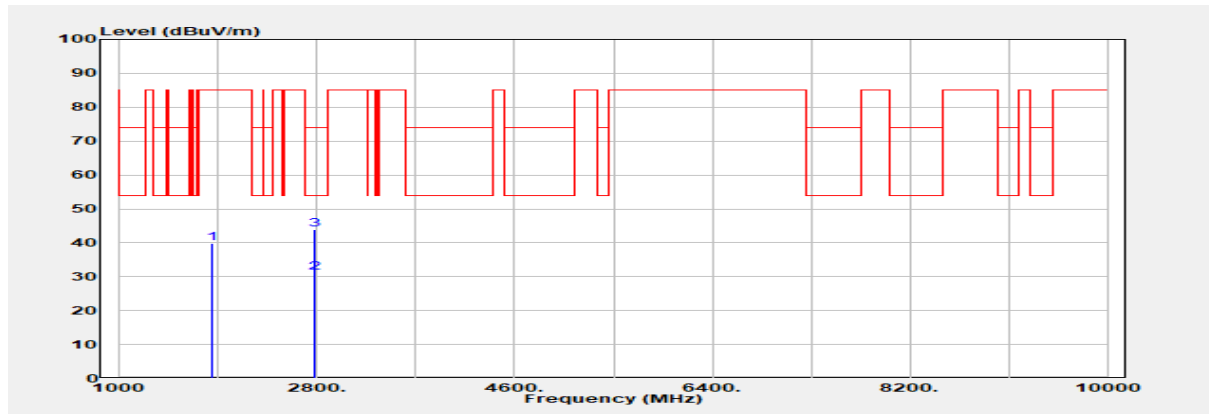
Temp./Humi. :21.9°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1848.000	Peak	47.60	-7.84	39.75	85.03	-45.28
2772.000	Average	35.13	-4.07	31.06	54.00	-22.94
2772.000	Peak	47.88	-4.07	43.81	74.00	-30.19

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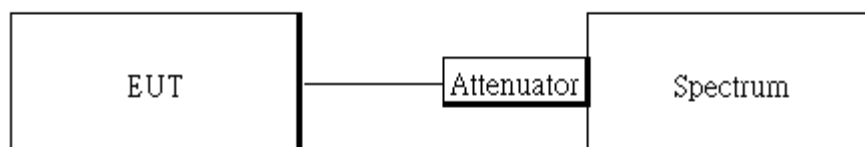
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

Per Part 15.247 (e)

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. Set Detector = 1M & 2M Detector = average
4M & 8M Detector = peak
6. Sweep time = auto couple.
7. Set Trace mode = 1M & 2M trace mode = average
4M & 8M 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:

12.4.1 Average Power Spectral Density

OFDM 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
903.5	4.214	8	PASS
914.5	5.039	8	PASS
926.5	6.012	8	PASS

***Note:**

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

OFDM 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
905	1.164	8	PASS
915	0.544	8	PASS
925	1.600	8	PASS

***Note:**

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

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12.4.2 Peak Power Spectral Density

OFDM 4M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
906	5.330	8	PASS
914	5.730	8	PASS
926	3.020	8	PASS

***Note:**

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

OFDM 8M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
908	2.880	8	PASS
916	2.160	8	PASS
924	-0.100	8	PASS

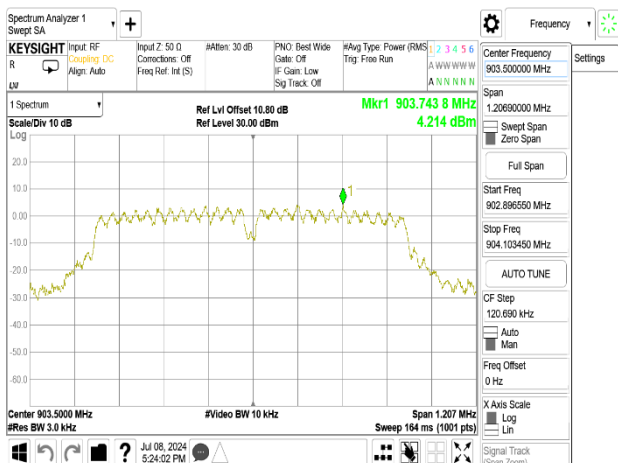
***Note:**

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

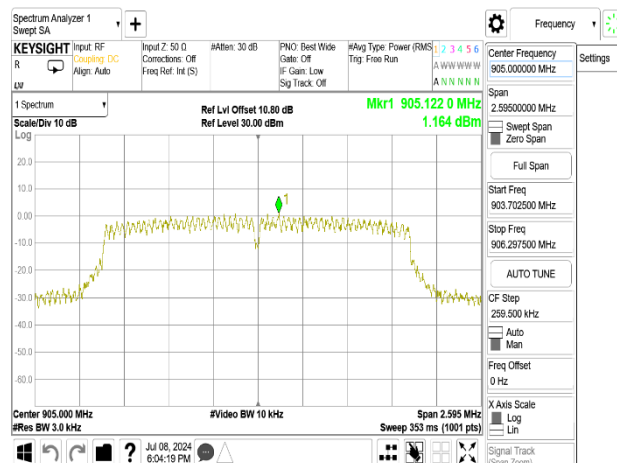
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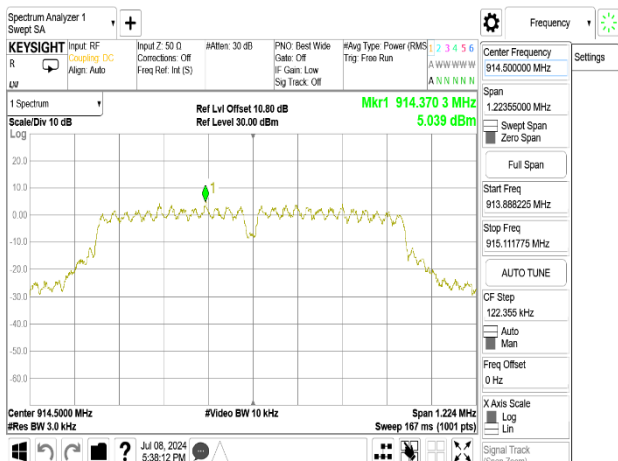
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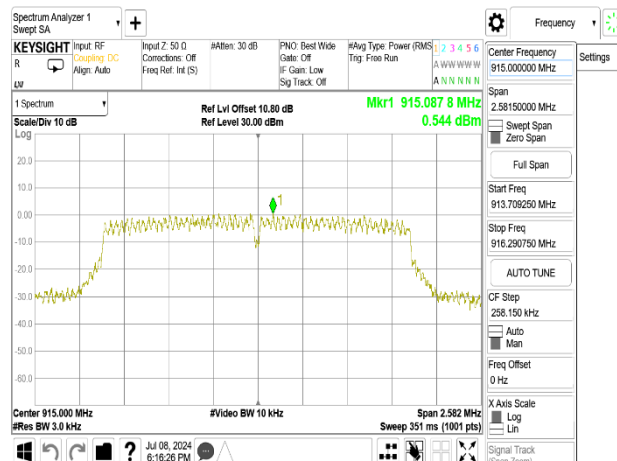
OFDM_2M_LowCH-905



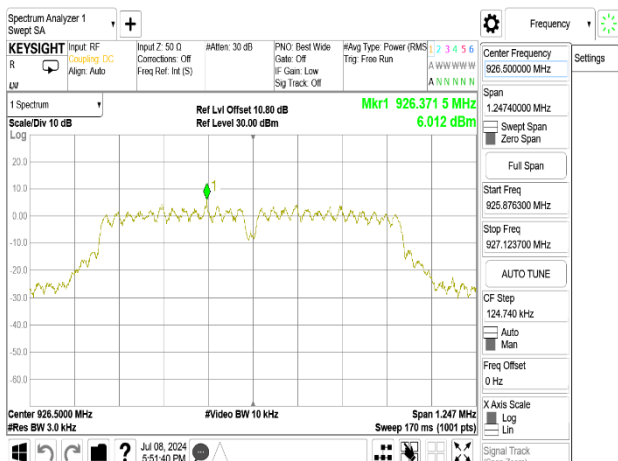
OFDM_1M_MidCH-914.5



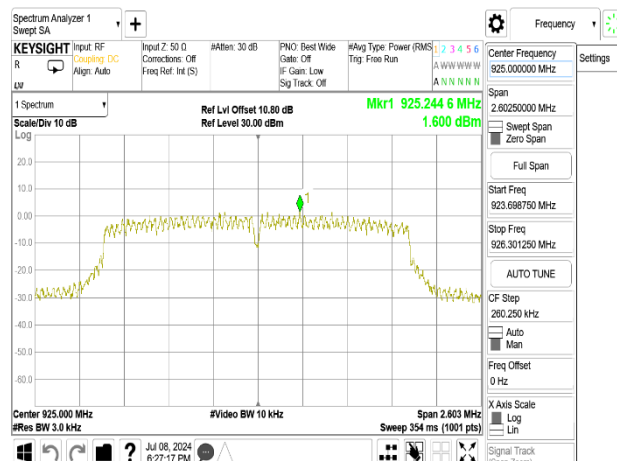
OFDM_2M_MidCH-915



OFDM_1M_HighCH-926.5



OFDM_2M_HighCH-925



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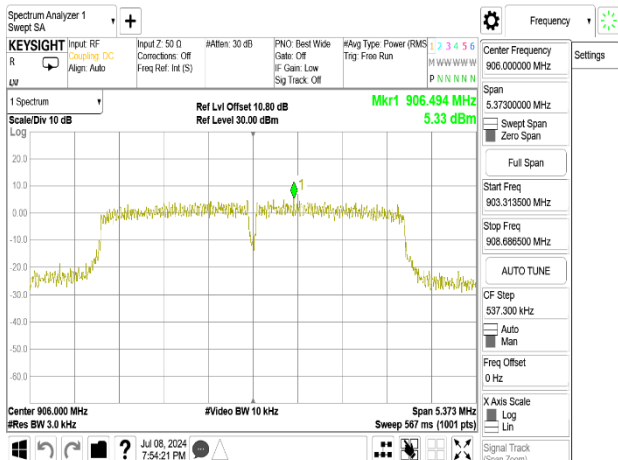
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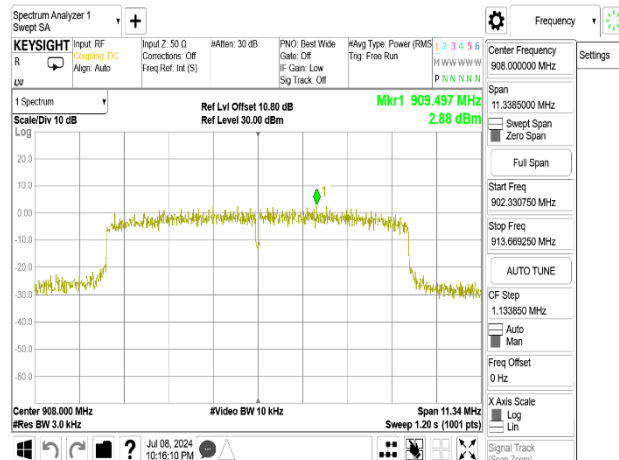
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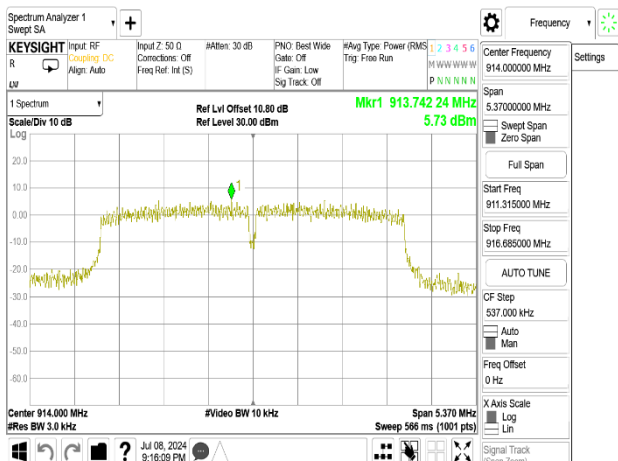
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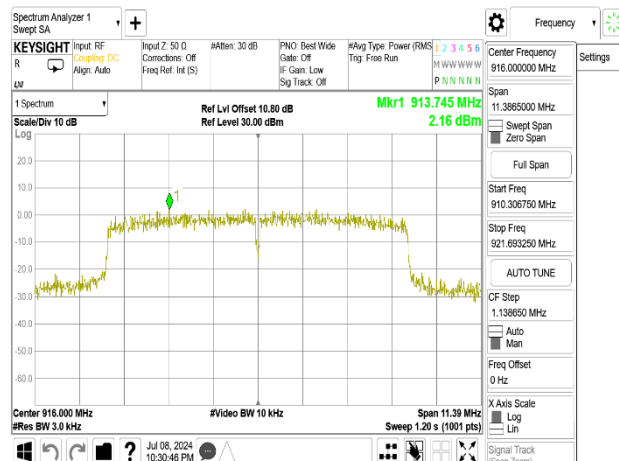
OFDM_8M_LowCH-908



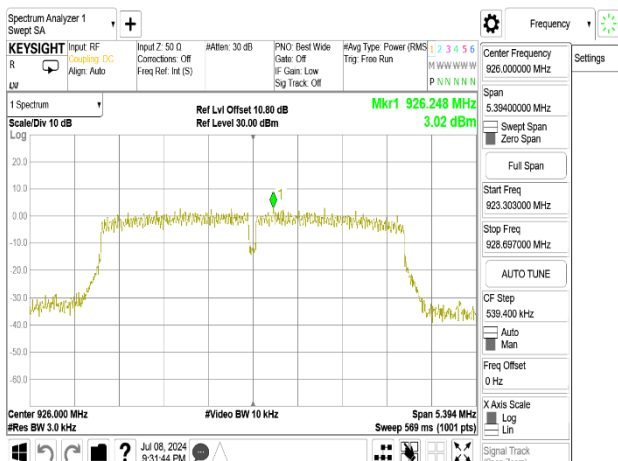
OFDM_4M_MidCH-914



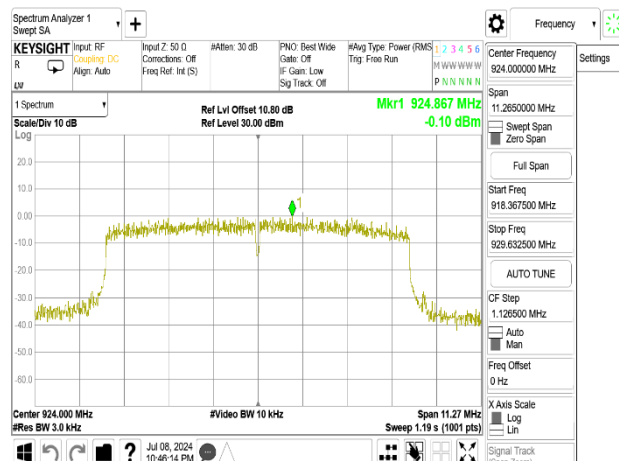
OFDM_8M_MidCH-916



OFDM_4M_HighCH-926



OFDM_8M_HighCH-924



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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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