

## 11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 Standard Applicable

$EIRP = (E^2 d^2) / 30$ , where  $E$  is the field strength in V/m,  $d$  is the measurement distance (3m),  $EIRP$  is the equivalent isotropically radiated power in Watts.

#### 11.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725			
15.407(b)(4)(i) RSS-247 §6.2.4.3	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

#### 11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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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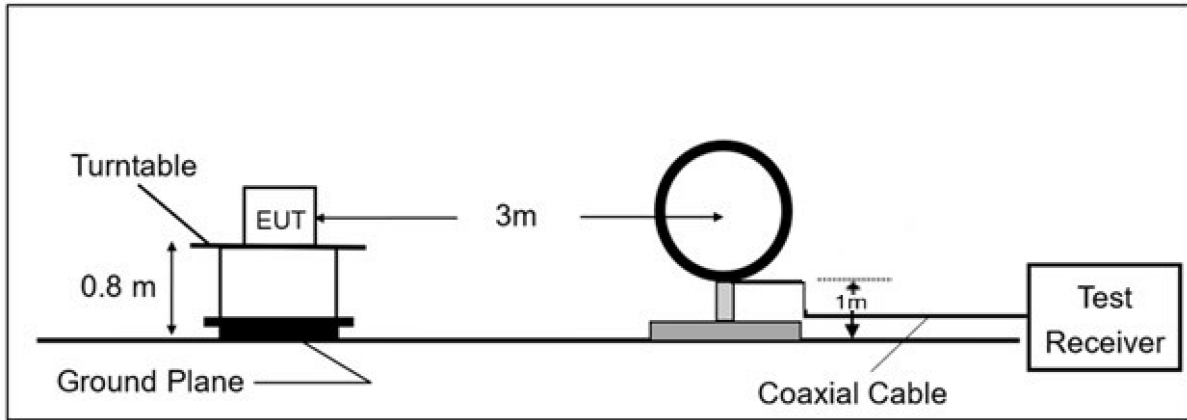
f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

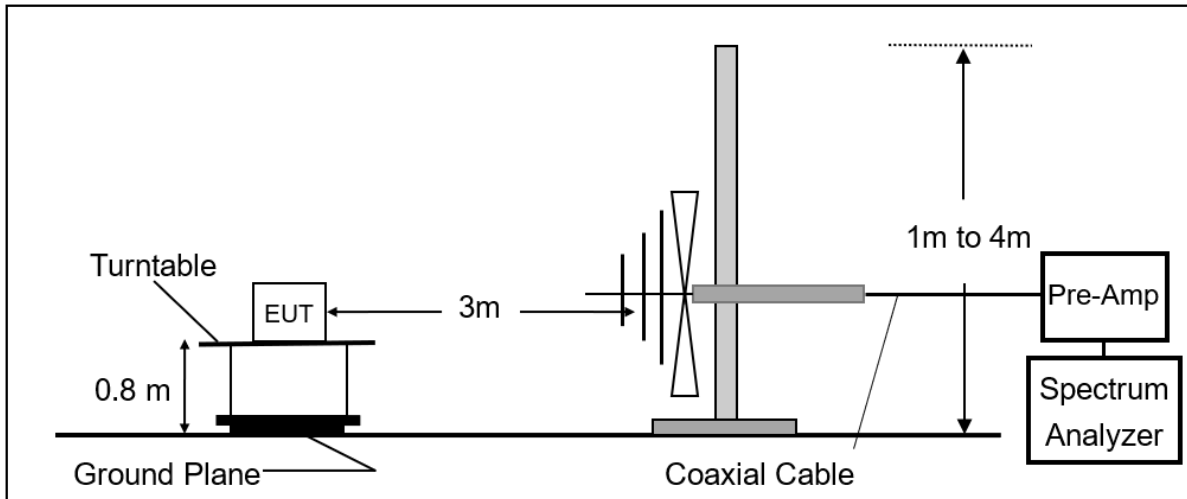
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## 11.2 Test Setup

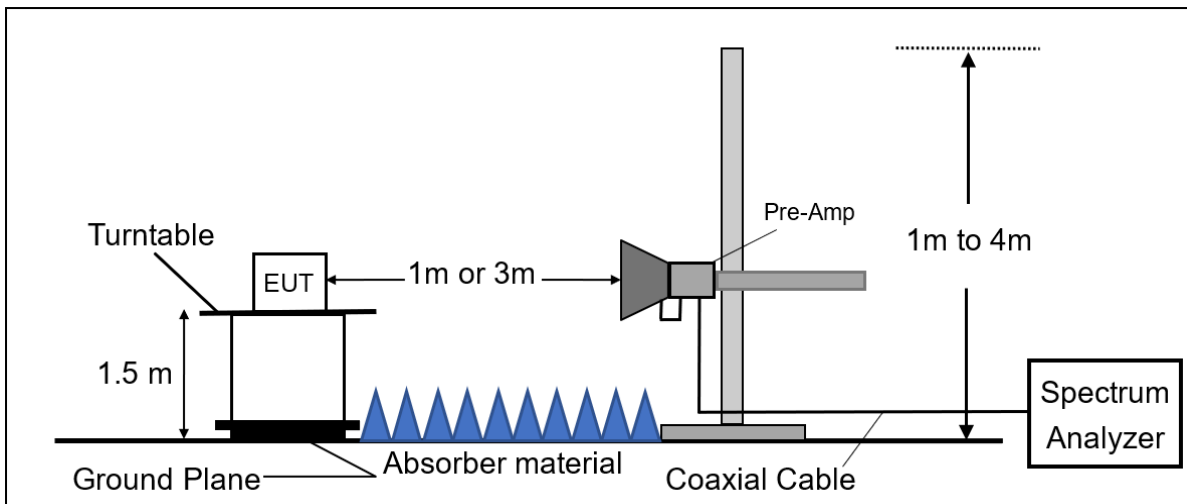
### (A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



### (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 FCC KDB 789033 D02.
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, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is  $[10 \log (1 / D)]$  for Average Emission measurements at frequency above 1 GHz **when  $D \geq 98\%$** . If a specific emission is demonstrated to be continuous ( $D \geq 98\%$ ) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW  $\geq 1/T$  **when  $D < 98\%$**  for Average Emission Measurements at frequency above 1 GHz.
10. 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.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
13. Repeat above procedures until all frequency 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

*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  $20 \cdot \log(\mu V/m)$*

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

*Factor(dB) = Antenna Factor(dB/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.

Pre-scan was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) was not reported.

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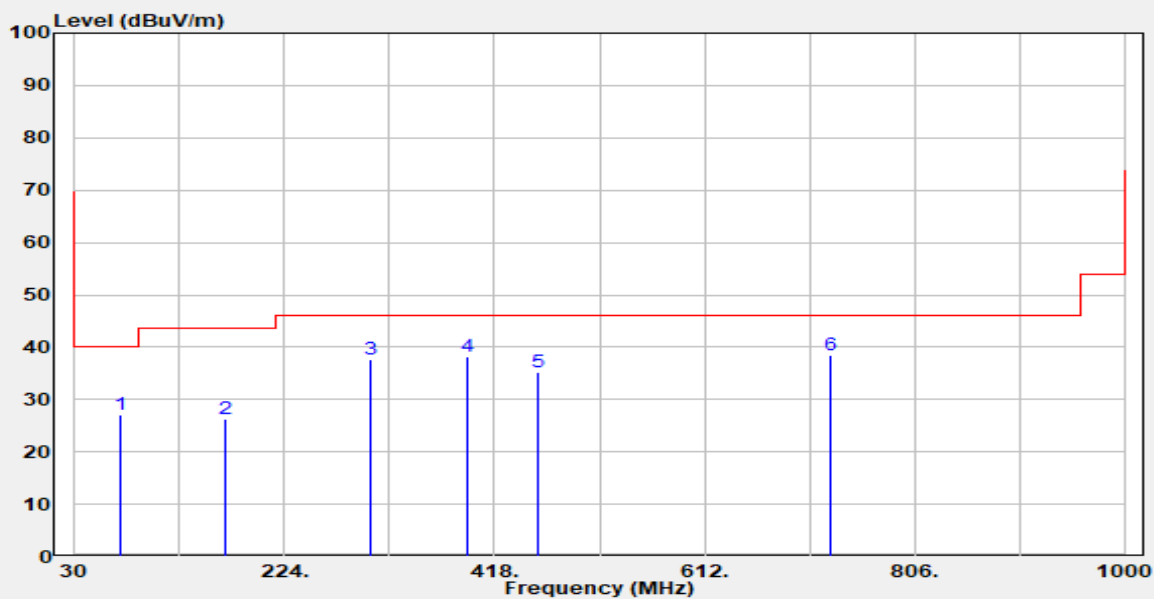
## 11.6 Radiated Spurious Emission Measurement Result

### 11.6.1 Spurious Emission

### 11.7 Spurious Emission

Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5220 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-27  
Temp./Humi. :21.8°C/69%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
71.71	QP	41.61	-14.52	27.09	40.00	-12.91
169.68	QP	38.70	-12.34	26.36	43.50	-17.14
302.57	Peak	48.63	-10.84	37.79	46.00	-8.21
392.78	Peak	46.73	-8.41	38.32	46.00	-7.68
457.77	Peak	41.77	-6.65	35.12	46.00	-10.88
729.37	Peak	40.08	-1.66	38.42	46.00	-7.58

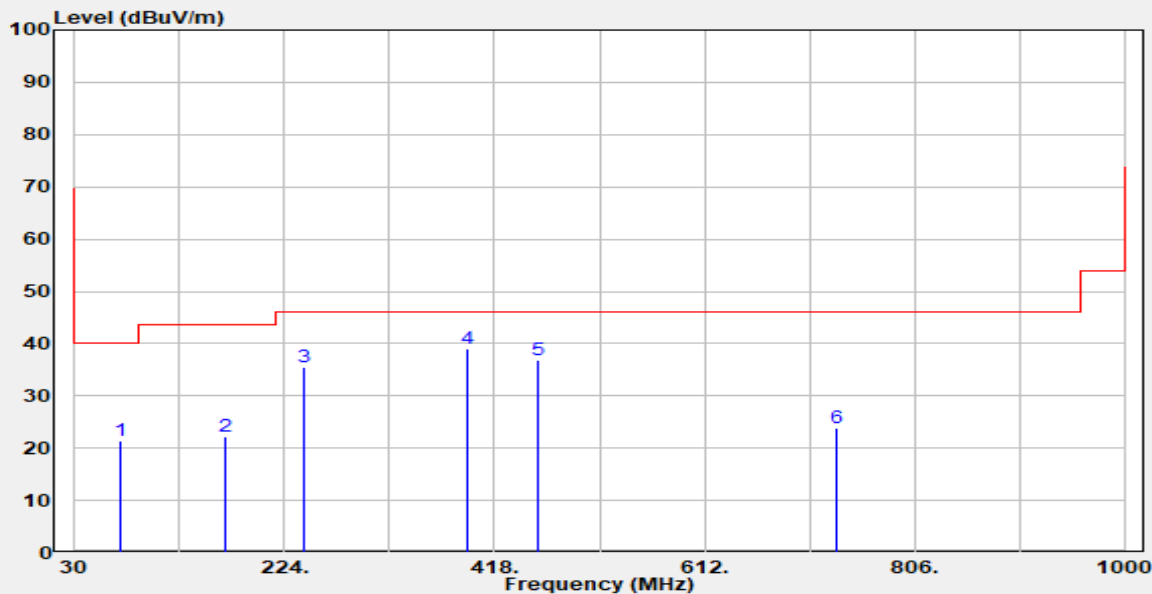
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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-27  
 Temp./Humi. :21.8°C/69%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
71.71	QP	35.81	-14.52	21.29	40.00	-18.71
169.68	QP	34.60	-12.34	22.26	43.50	-21.24
242.43	Peak	48.81	-13.20	35.61	46.00	-10.39
392.78	Peak	47.40	-8.41	38.99	46.00	-7.01
457.77	Peak	43.63	-6.65	36.98	46.00	-9.02
734.22	QP	25.31	-1.53	23.78	46.00	-22.22

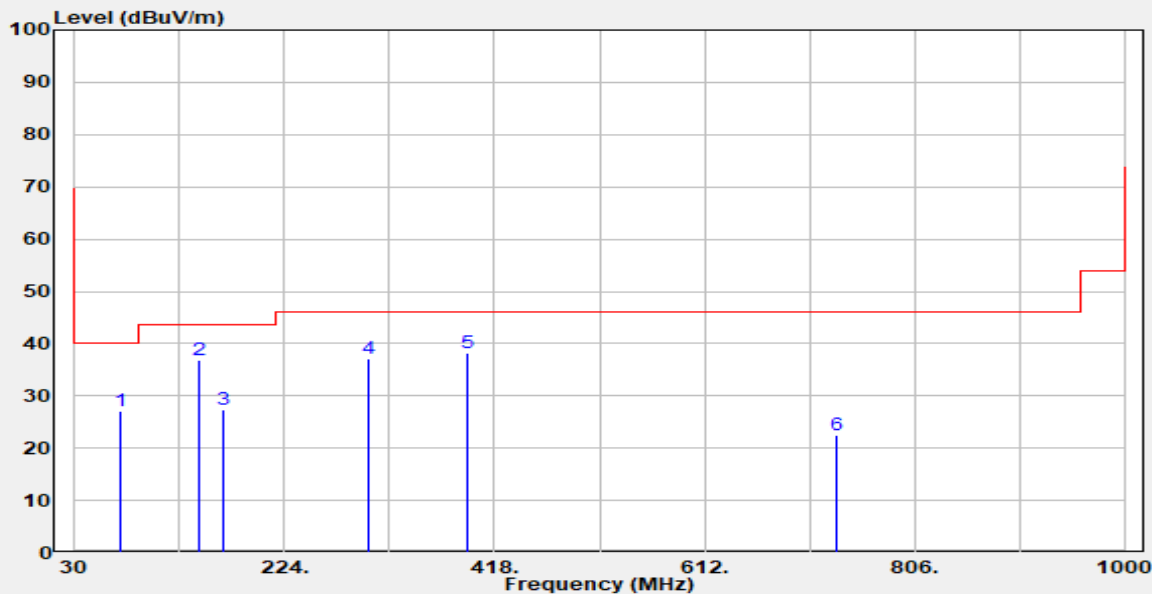
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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-27  
 Temp./Humi. :21.8°C/69%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
71.71	QP	41.73	-14.52	27.21	40.00	-12.79
144.46	QP	49.20	-12.34	36.86	43.50	-6.64
167.74	QP	39.49	-12.18	27.31	43.50	-16.19
301.60	Peak	48.09	-10.89	37.20	46.00	-8.80
392.78	Peak	46.68	-8.41	38.27	46.00	-7.73
734.22	QP	23.91	-1.53	22.38	46.00	-23.62

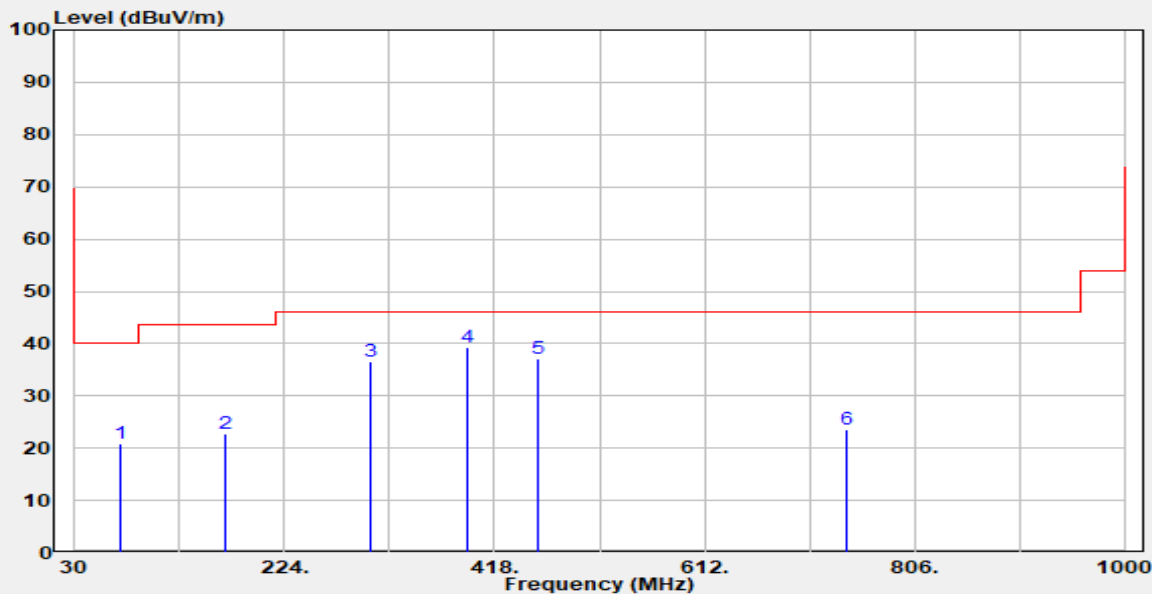
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Operation Mode :802.11a  
Test Frequency :5785 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-27  
Temp./Humi. :21.8°C/69%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
71.71	QP	35.41	-14.52	20.89	40.00	-19.11
168.71	QP	35.10	-12.25	22.85	43.50	-20.65
303.54	Peak	47.50	-10.80	36.70	46.00	-9.30
392.78	Peak	47.83	-8.41	39.42	46.00	-6.58
457.77	Peak	43.72	-6.65	37.07	46.00	-8.93
742.95	QP	24.70	-1.20	23.50	46.00	-22.50

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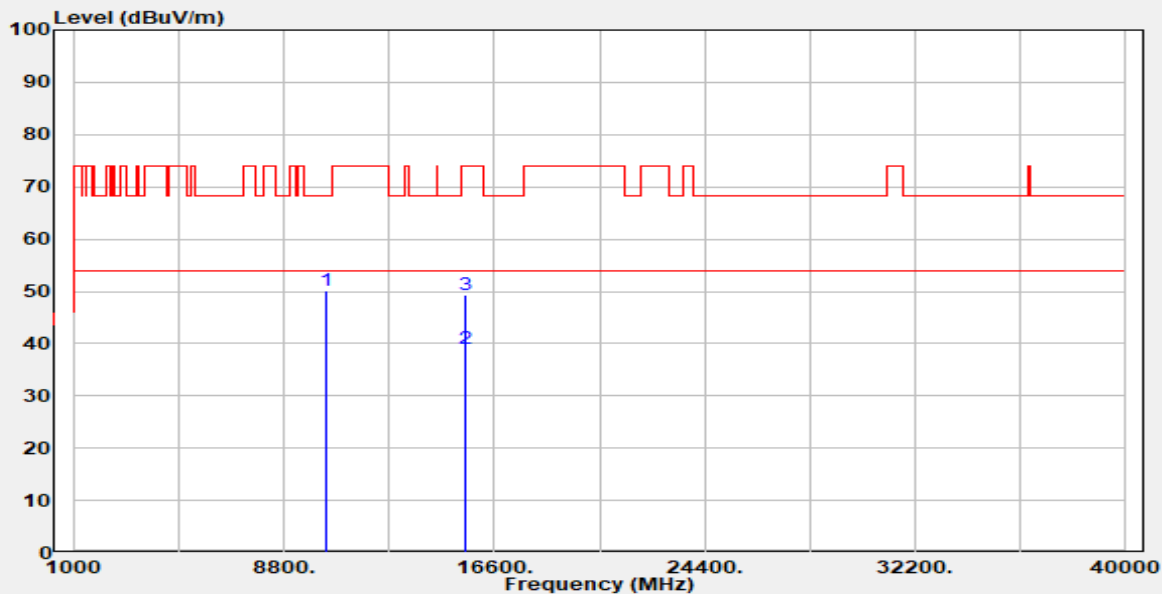
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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



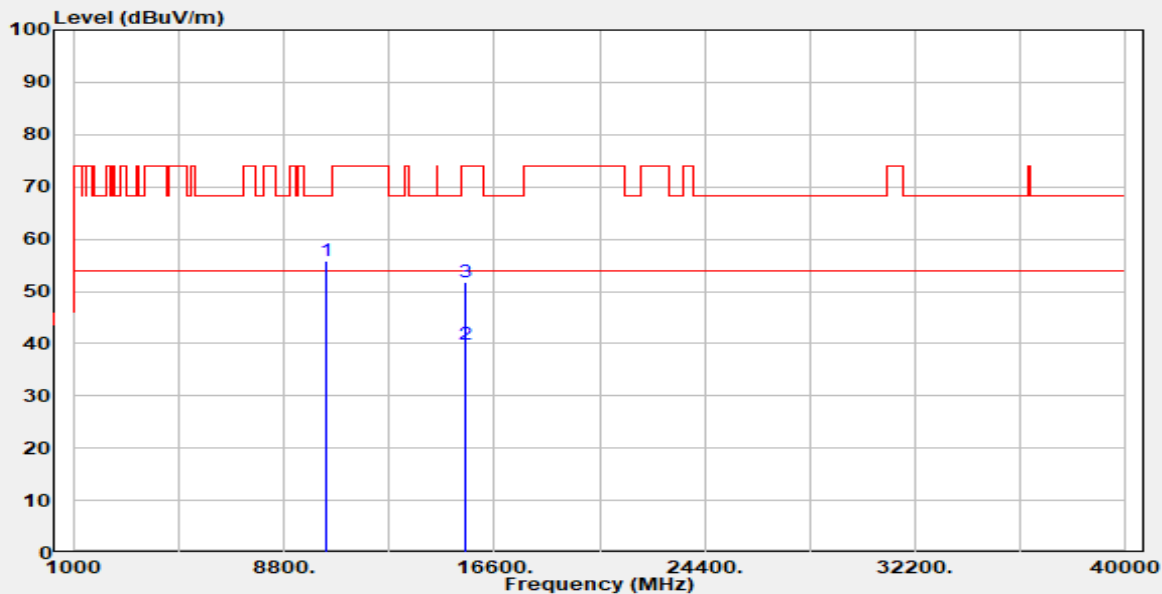
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	41.39	8.68	50.07	68.20	-18.13
15540.00	Average	32.39	6.60	38.99	54.00	-15.01
15540.00	Peak	42.82	6.60	49.42	74.00	-24.58

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	47.03	8.68	55.71	68.20	-12.49
15540.00	Average	33.23	6.60	39.83	54.00	-14.17
15540.00	Peak	45.03	6.60	51.63	74.00	-22.37

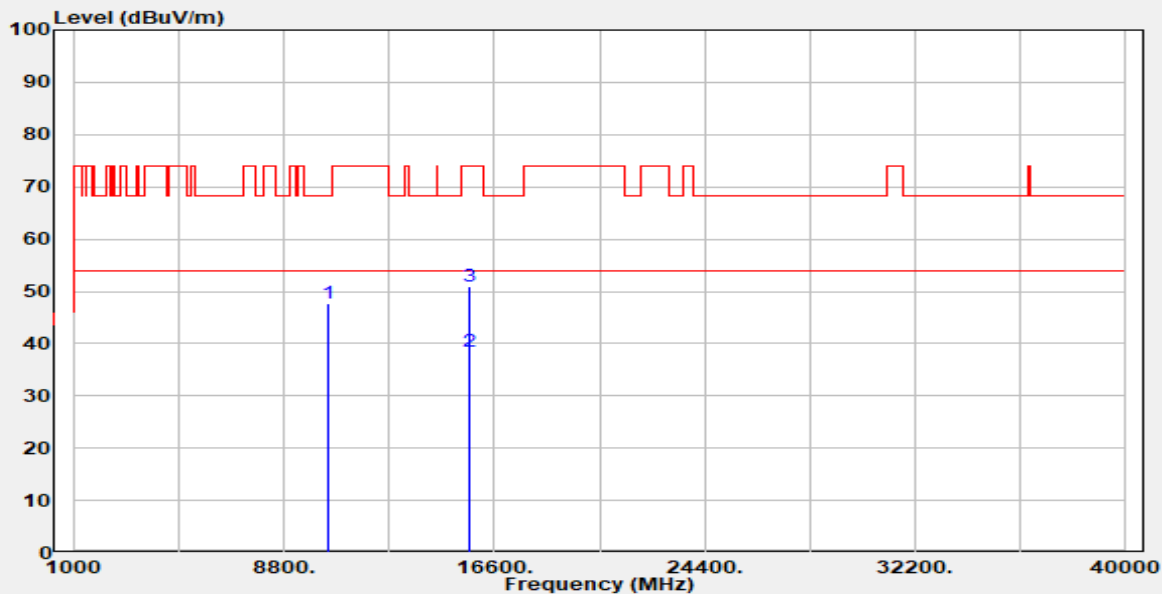
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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5220 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



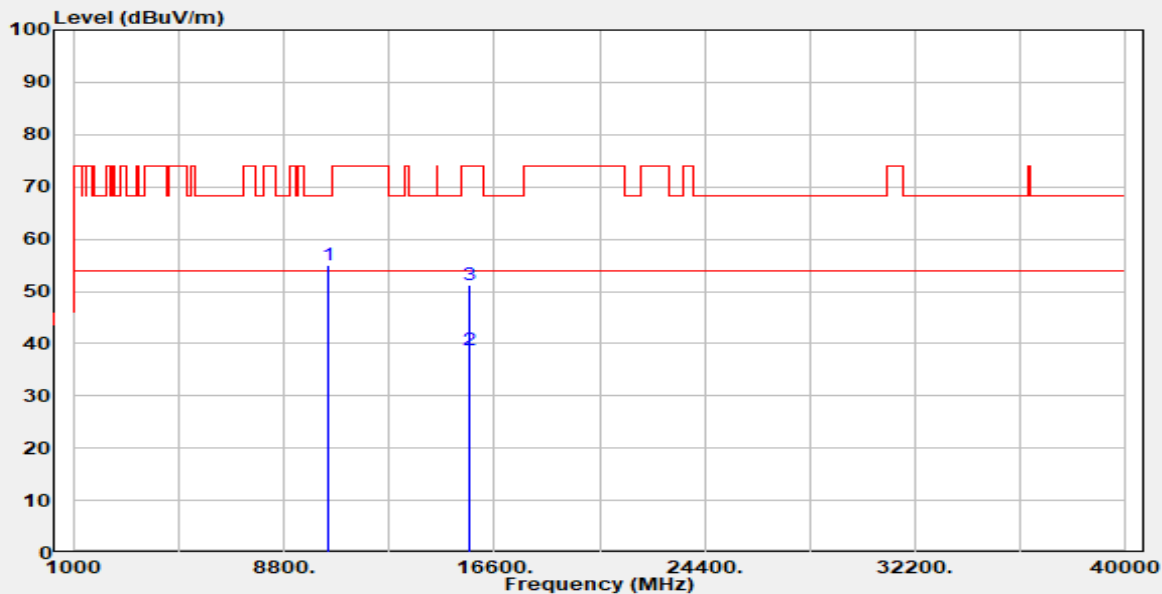
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	38.85	8.98	47.83	68.20	-20.37
15660.00	Average	32.54	5.96	38.50	54.00	-15.50
15660.00	Peak	44.89	5.96	50.85	74.00	-23.15

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5220 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



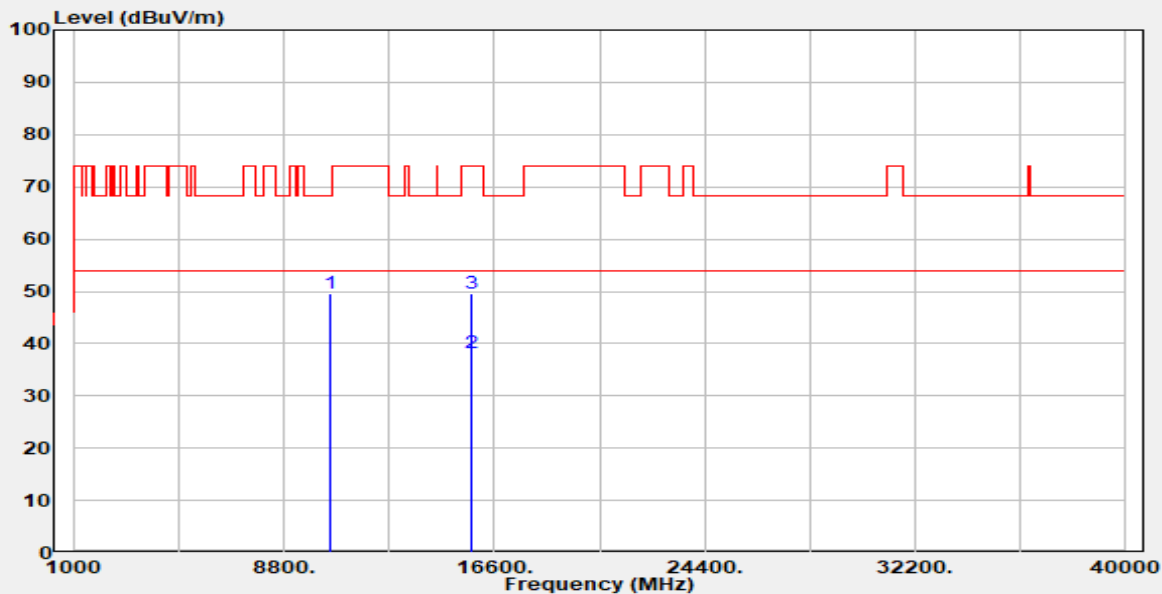
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	46.05	8.98	55.03	68.20	-13.17
15660.00	Average	32.83	5.96	38.79	54.00	-15.21
15660.00	Peak	45.13	5.96	51.09	74.00	-22.91

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5240 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



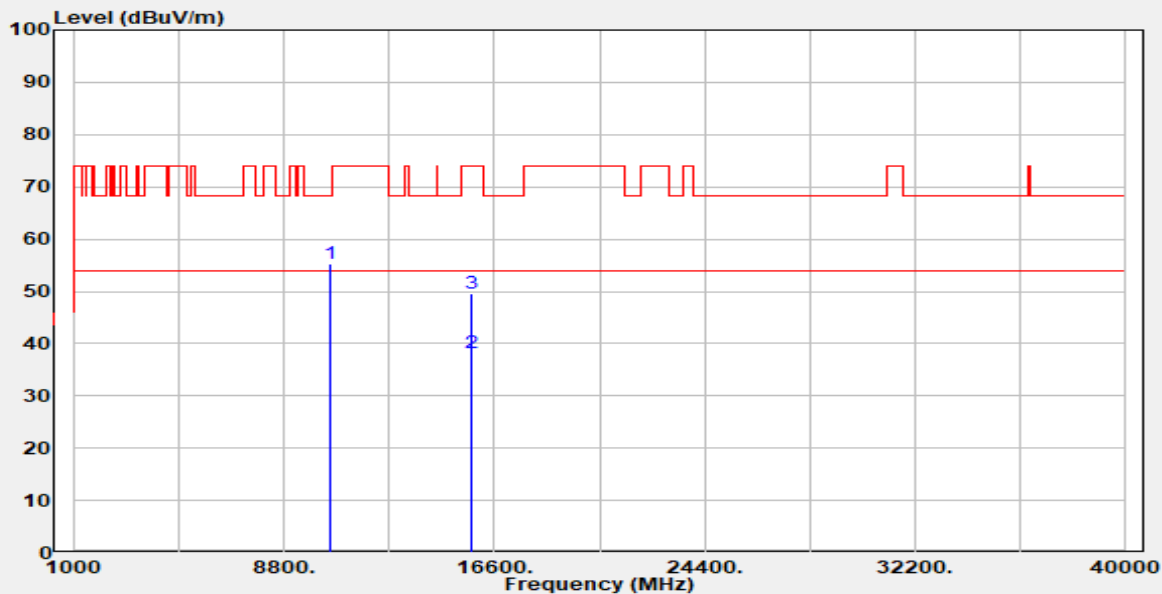
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	40.52	9.08	49.60	68.20	-18.60
15720.00	Average	31.93	6.18	38.11	54.00	-15.89
15720.00	Peak	43.55	6.18	49.73	74.00	-24.27

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5240 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



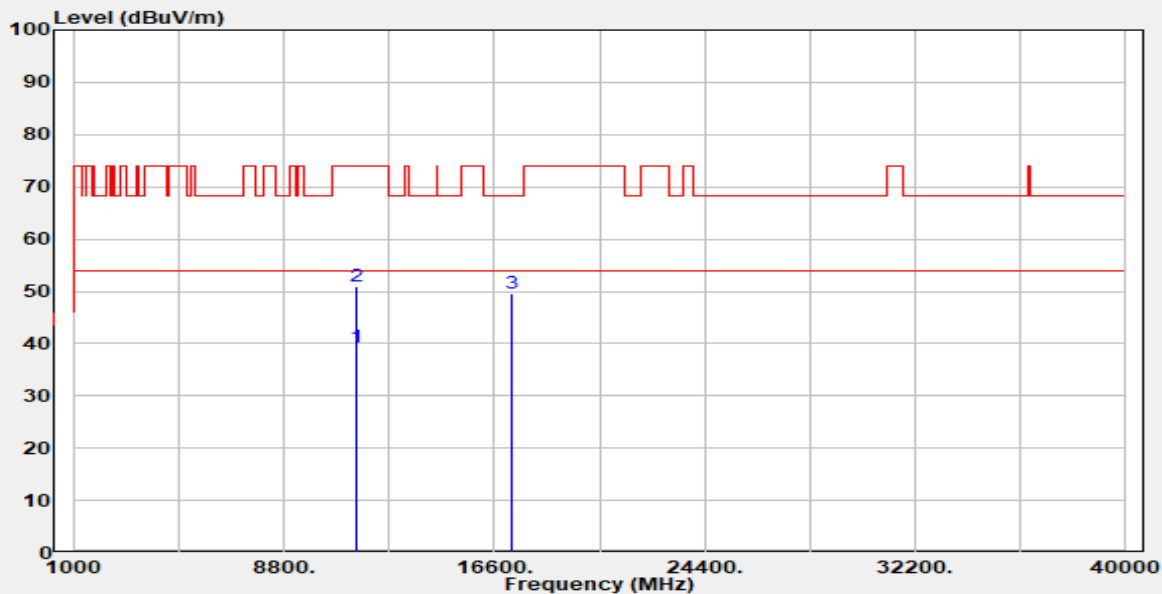
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	46.15	9.08	55.23	68.20	-12.97
15720.00	Average	32.16	6.18	38.34	54.00	-15.66
15720.00	Peak	43.41	6.18	49.59	74.00	-24.41

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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Tx  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.1°C/60%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



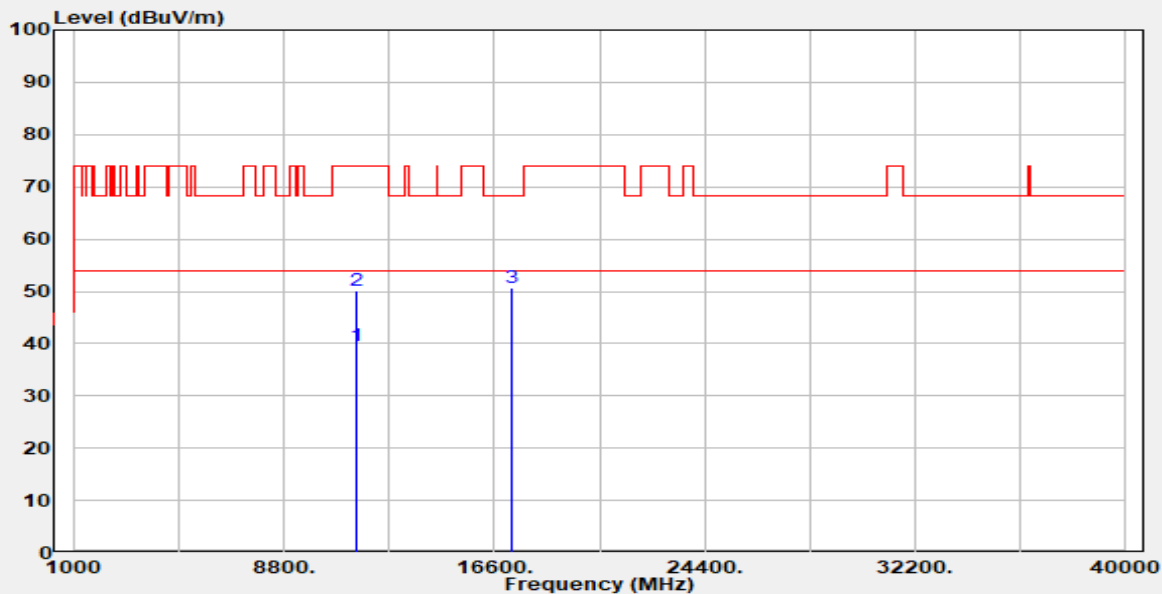
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.00	Average	30.47	8.69	39.16	54.00	-14.84
11490.00	Peak	42.28	8.69	50.97	74.00	-23.03
17235.00	Peak	39.98	9.56	49.54	68.20	-18.66

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5745 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.00	Average	30.78	8.69	39.47	54.00	-14.53
11490.00	Peak	41.53	8.69	50.22	74.00	-23.78
17235.00	Peak	41.02	9.56	50.58	68.20	-17.62

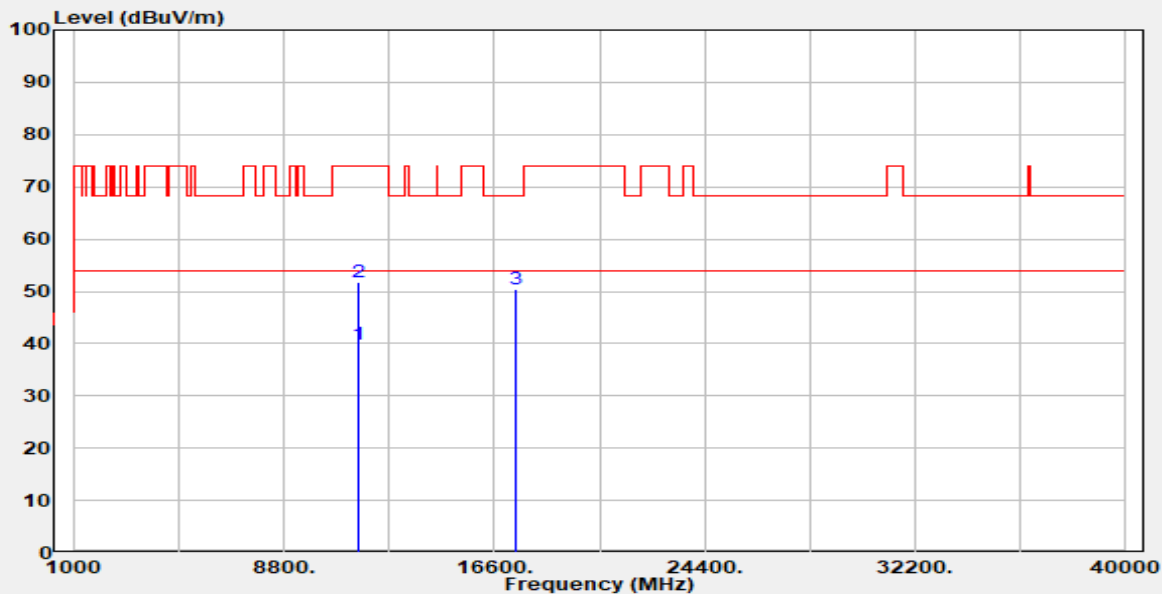
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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.1°C/60%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.00	Average	31.52	8.33	39.85	54.00	-14.15
11570.00	Peak	43.43	8.33	51.76	74.00	-22.24
17355.00	Peak	40.59	9.94	50.53	68.20	-17.67

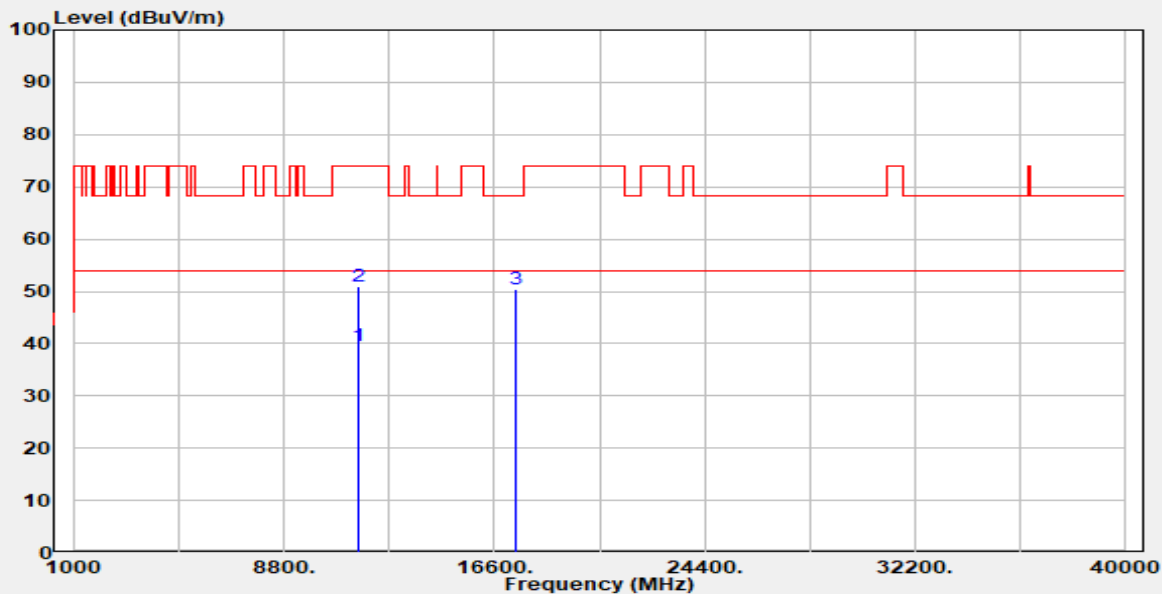
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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5785 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



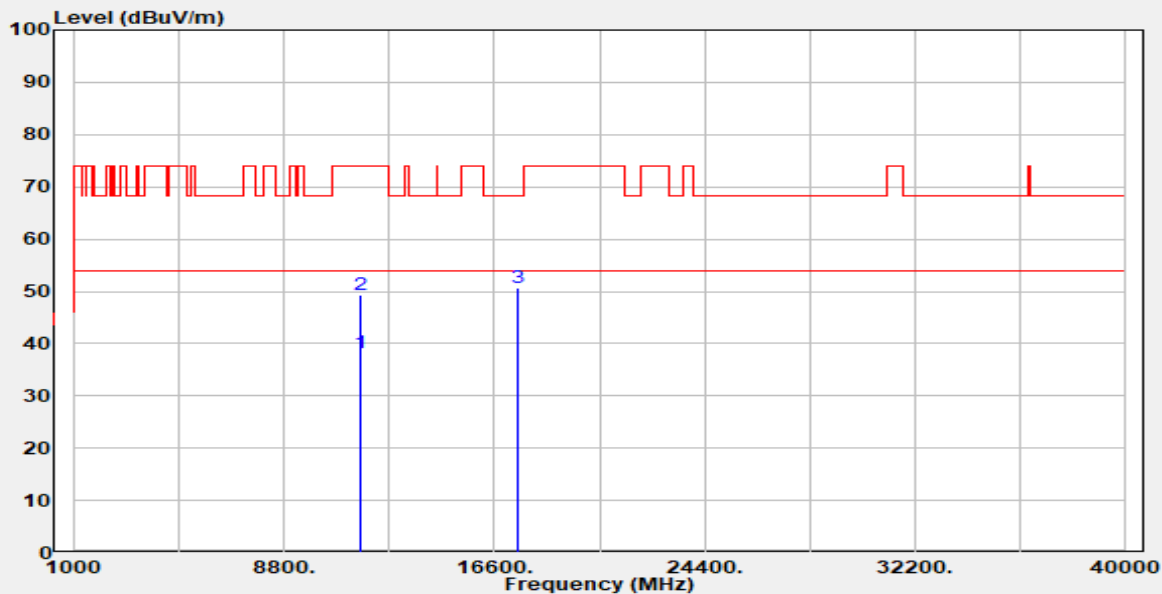
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.00	Average	31.13	8.33	39.46	54.00	-14.54
11570.00	Peak	42.59	8.33	50.92	74.00	-23.08
17355.00	Peak	40.52	9.94	50.46	68.20	-17.74

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5825 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



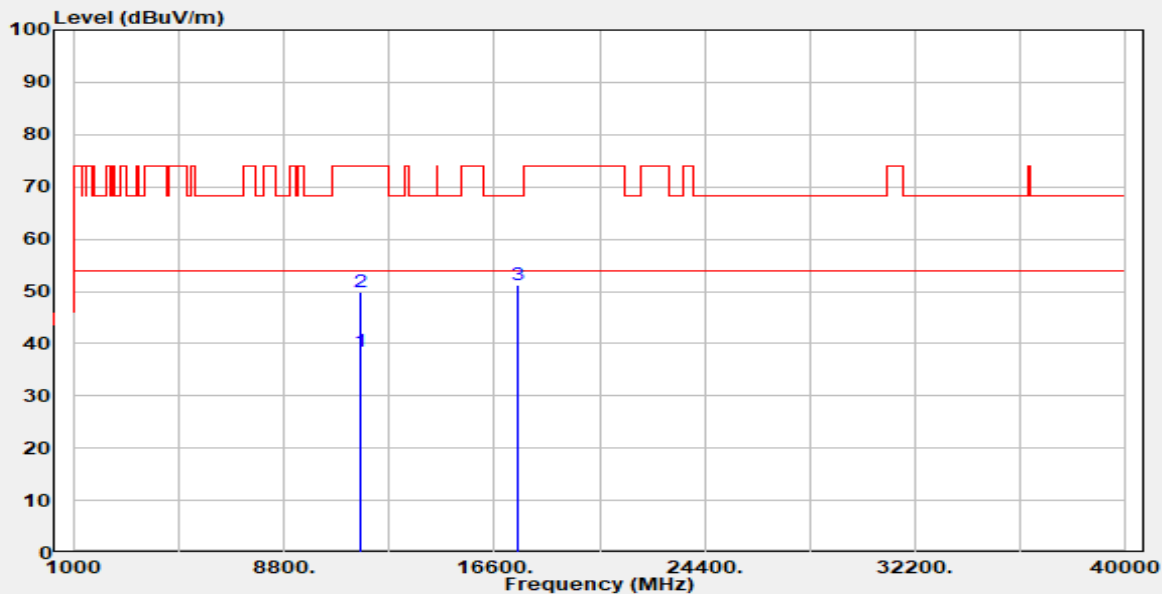
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	Average	30.38	7.81	38.19	54.00	-15.81
11650.00	Peak	41.51	7.81	49.32	74.00	-24.68
17475.00	Peak	40.00	10.74	50.74	68.20	-17.46

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5825 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



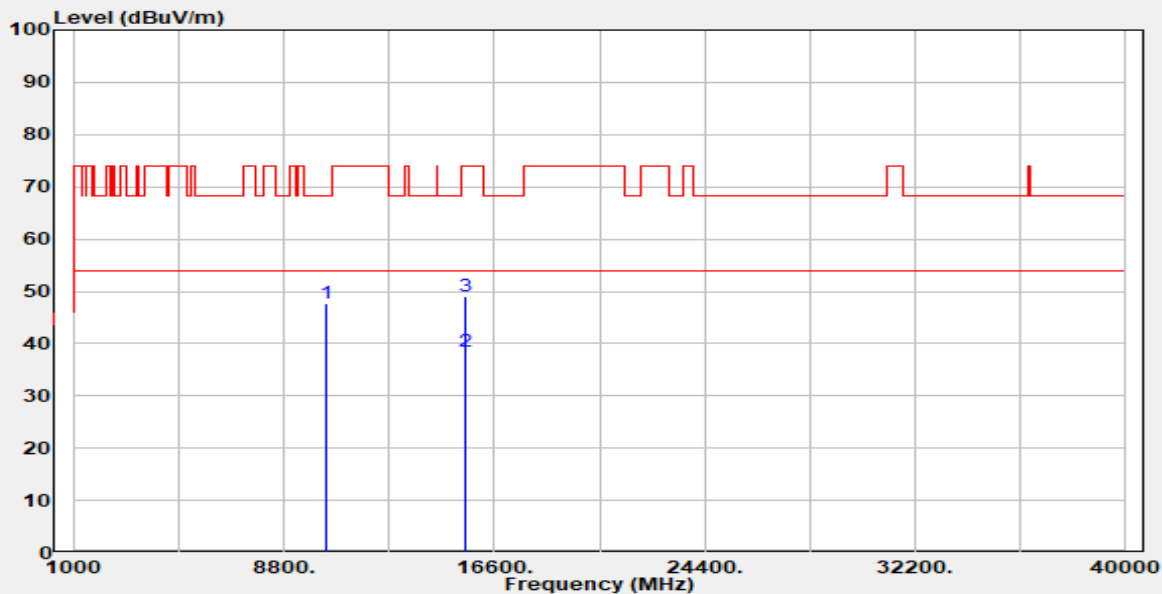
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	Average	30.66	7.81	38.47	54.00	-15.53
11650.00	Peak	42.04	7.81	49.85	74.00	-24.15
17475.00	Peak	40.40	10.74	51.14	68.20	-17.06

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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Tx  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.1°C/60%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



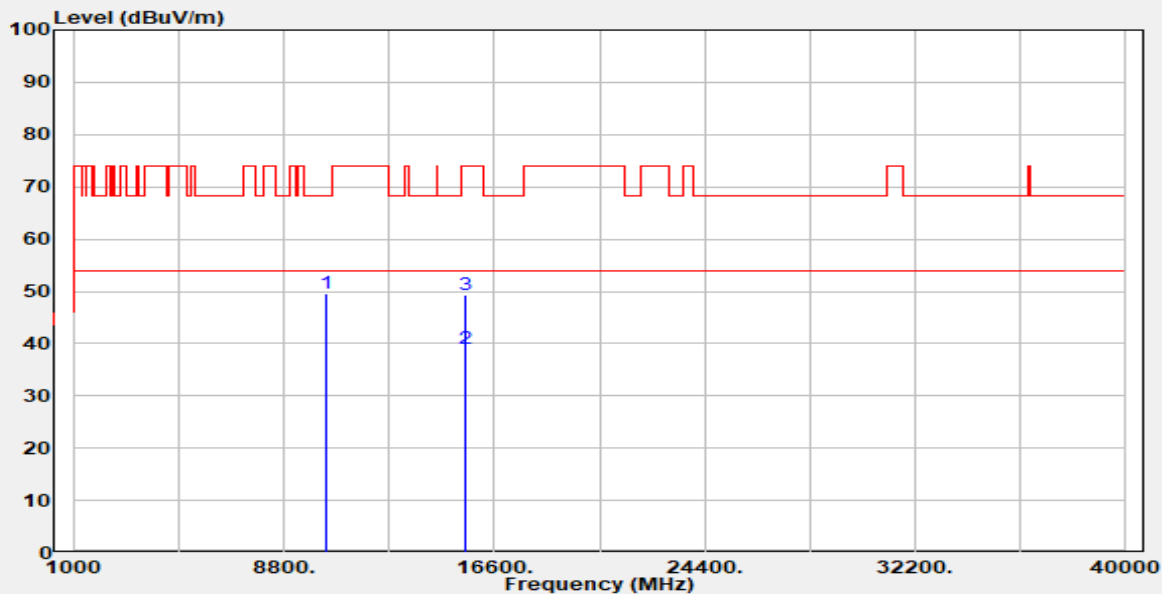
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	38.98	8.68	47.66	68.20	-20.54
15540.00	Average	31.90	6.60	38.50	54.00	-15.50
15540.00	Peak	42.35	6.60	48.95	74.00	-25.05

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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



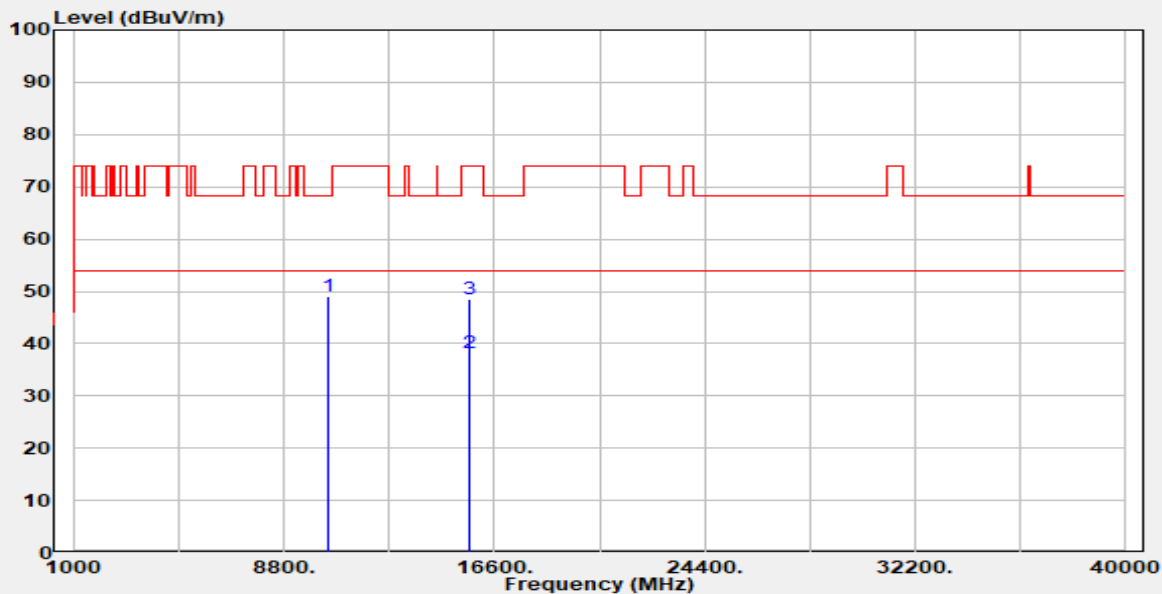
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	40.90	8.68	49.58	68.20	-18.62
15540.00	Average	32.37	6.60	38.97	54.00	-15.03
15540.00	Peak	42.70	6.60	49.30	74.00	-24.70

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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5220 MHz  
 Test Mode :Tx  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.1°C/60%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	40.10	8.98	49.08	68.20	-19.12
15660.00	Average	32.13	5.96	38.09	54.00	-15.91
15660.00	Peak	42.55	5.96	48.51	74.00	-25.49

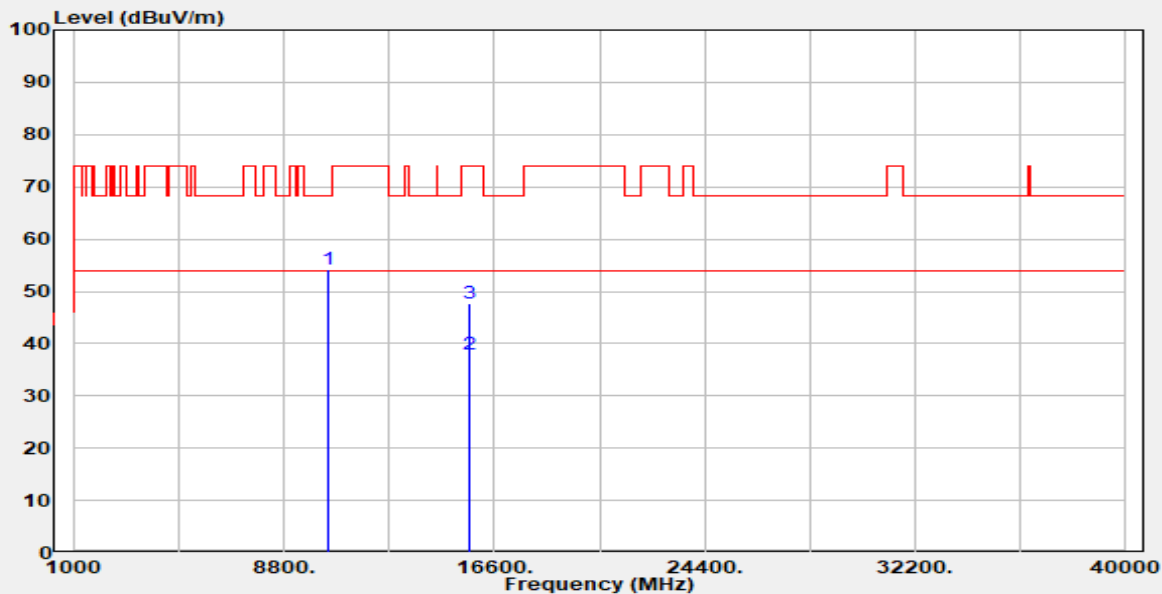
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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5220 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	45.22	8.98	54.20	68.20	-14.00
15660.00	Average	32.10	5.96	38.06	54.00	-15.94
15660.00	Peak	41.83	5.96	47.79	74.00	-26.21

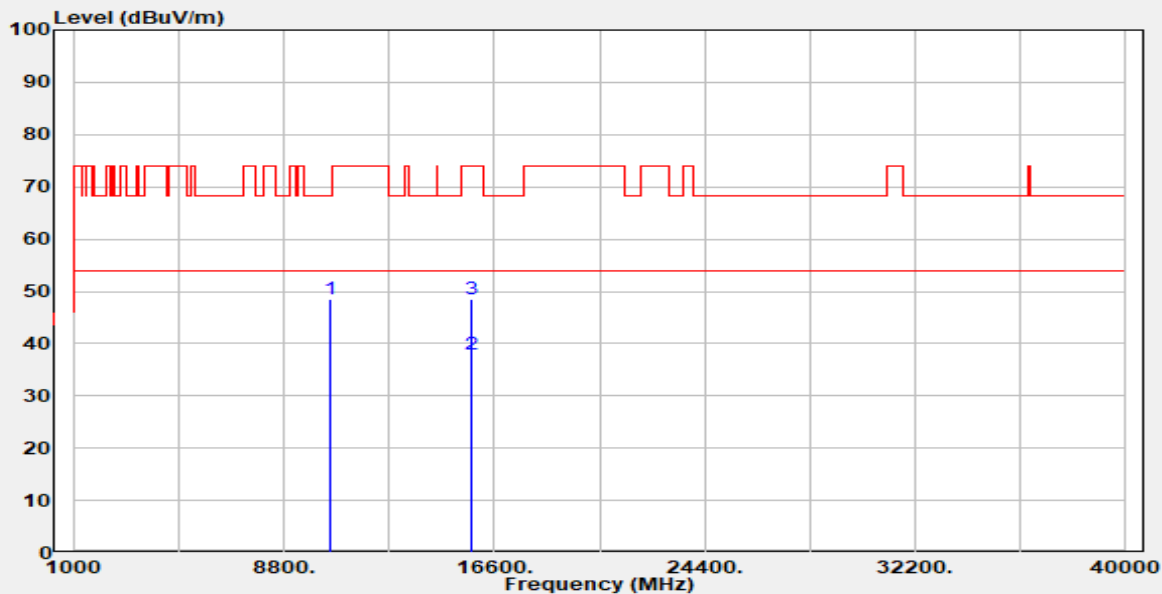
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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5240 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	39.51	9.08	48.59	68.20	-19.61
15720.00	Average	31.65	6.18	37.83	54.00	-16.17
15720.00	Peak	42.23	6.18	48.41	74.00	-25.59

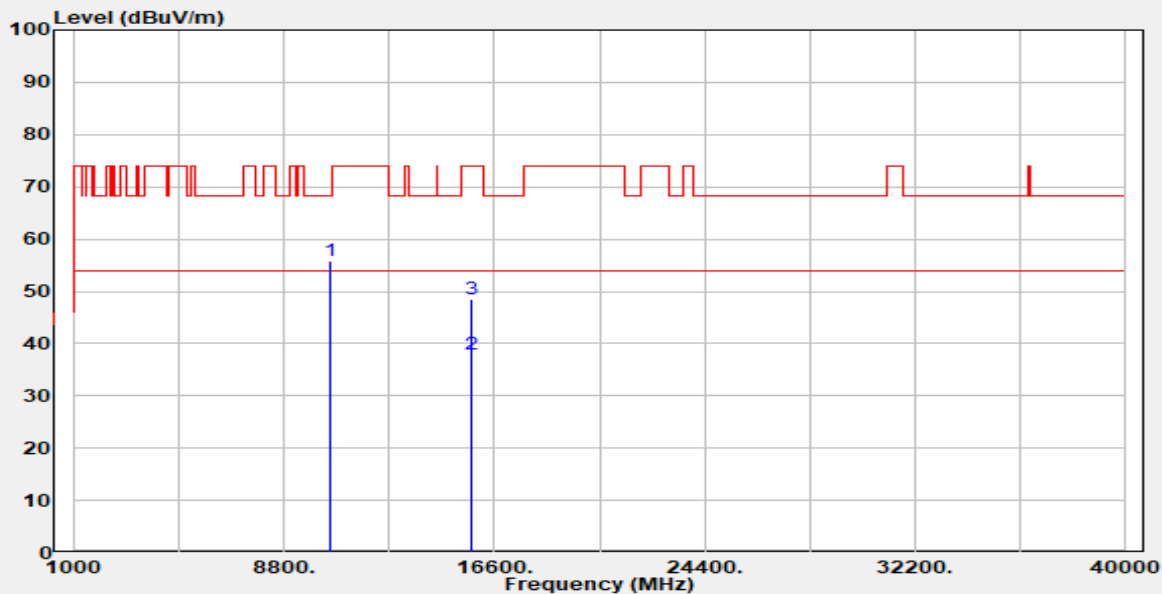
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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5240 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



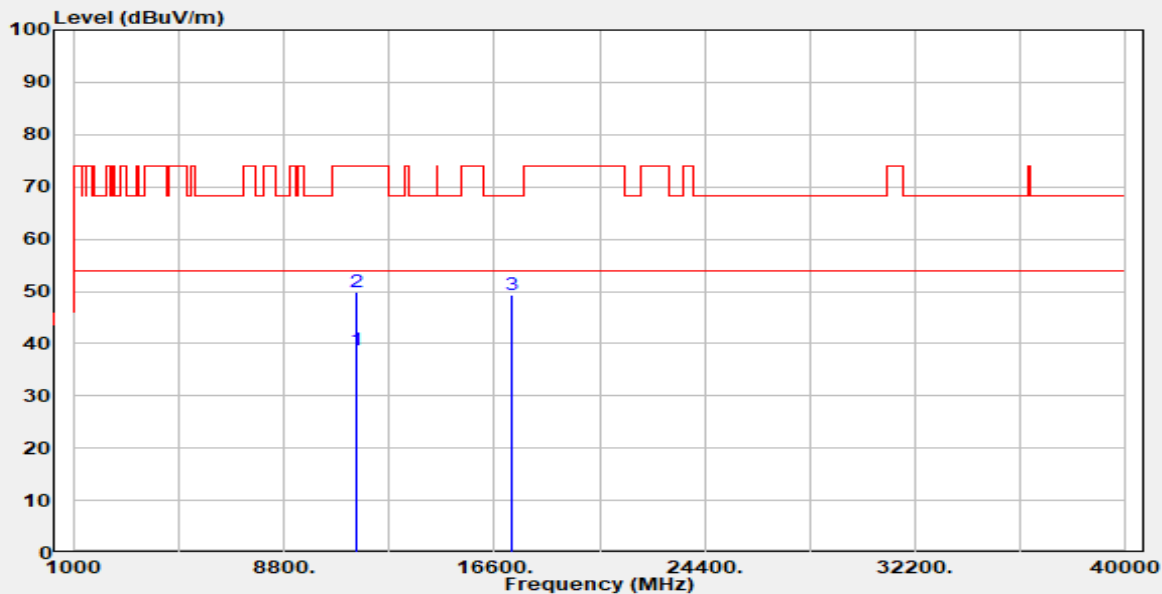
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	46.82	9.08	55.90	68.20	-12.30
15720.00	Average	31.77	6.18	37.95	54.00	-16.05
15720.00	Peak	42.29	6.18	48.47	74.00	-25.53

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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5745 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



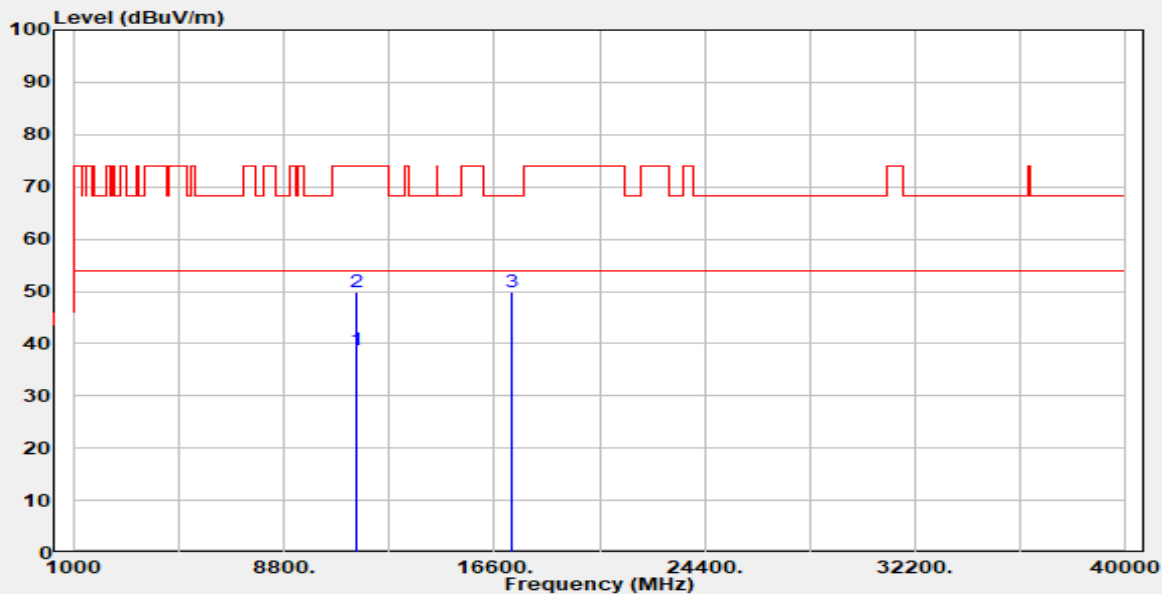
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.00	Average	30.05	8.69	38.74	54.00	-15.26
11490.00	Peak	41.17	8.69	49.86	74.00	-24.14
17235.00	Peak	39.70	9.56	49.26	68.20	-18.94

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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5745 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



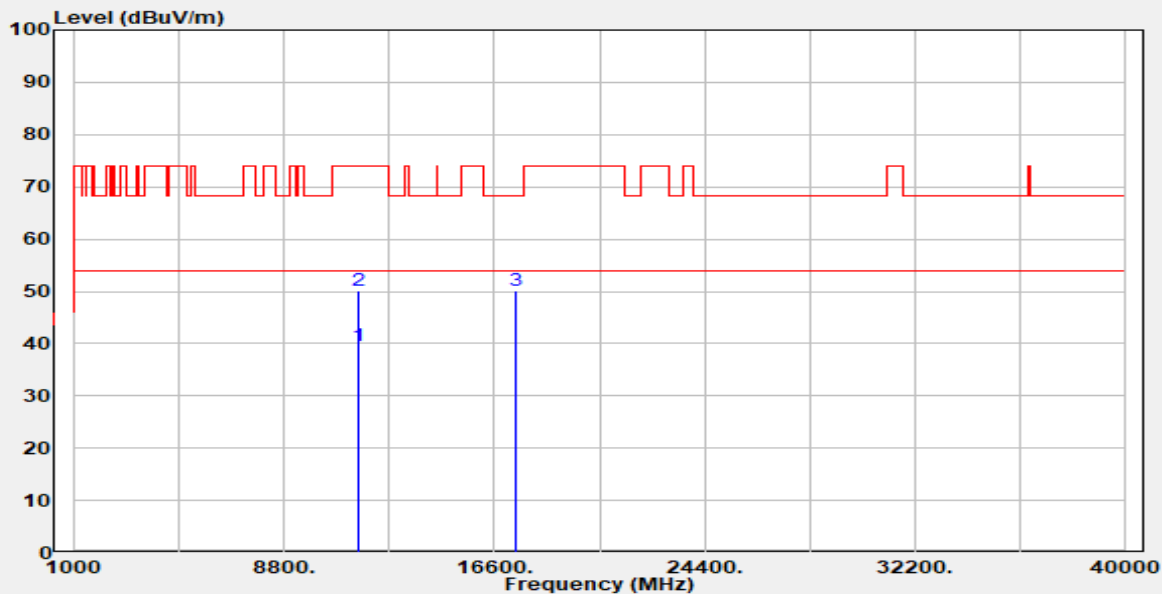
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.00	Average	30.14	8.69	38.83	54.00	-15.17
11490.00	Peak	41.07	8.69	49.76	74.00	-24.24
17235.00	Peak	40.41	9.56	49.97	68.20	-18.23

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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5785 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.00	Average	31.13	8.33	39.46	54.00	-14.54
11570.00	Peak	41.72	8.33	50.05	74.00	-23.95
17355.00	Peak	40.08	9.94	50.02	68.20	-18.18

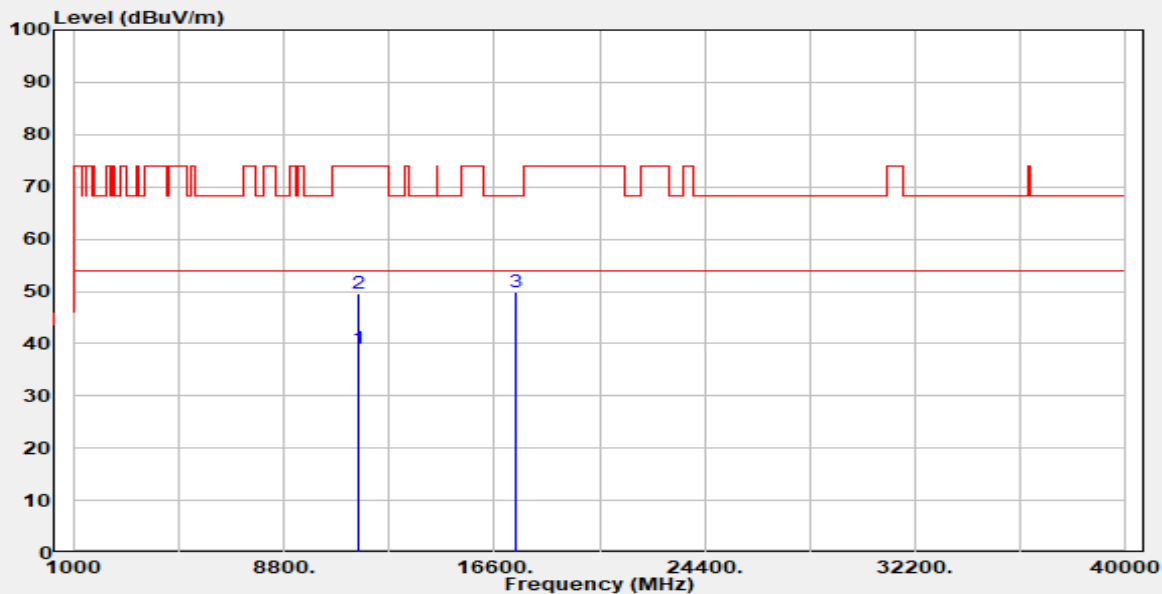
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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5785 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.00	Average	30.57	8.33	38.90	54.00	-15.10
11570.00	Peak	41.23	8.33	49.56	74.00	-24.44
17355.00	Peak	39.97	9.94	49.91	68.20	-18.29

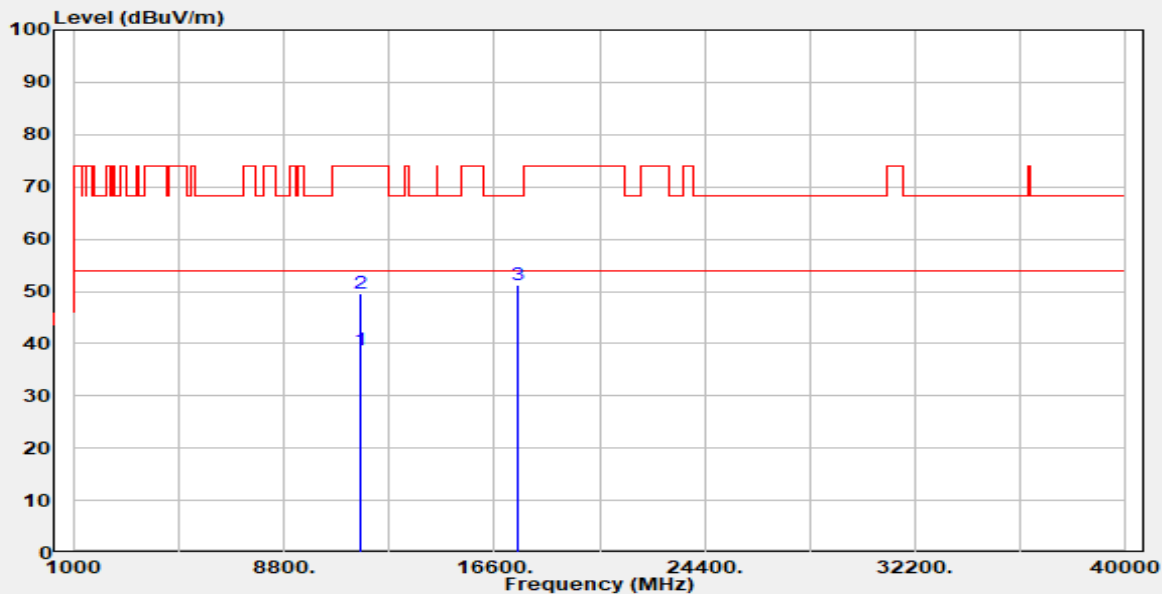
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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5825 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



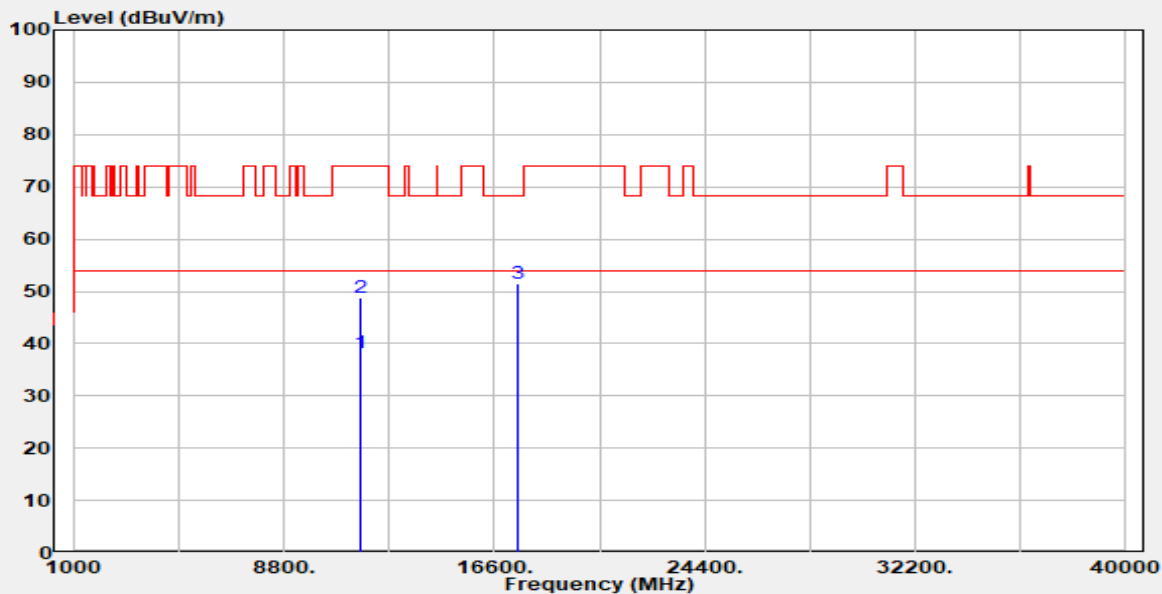
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	Average	30.96	7.81	38.77	54.00	-15.23
11650.00	Peak	41.82	7.81	49.63	74.00	-24.37
17475.00	Peak	40.38	10.74	51.12	68.20	-17.08

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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5825 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	Average	30.35	7.81	38.16	54.00	-15.84
11650.00	Peak	41.01	7.81	48.82	74.00	-25.18
17475.00	Peak	40.65	10.74	51.39	68.20	-16.81

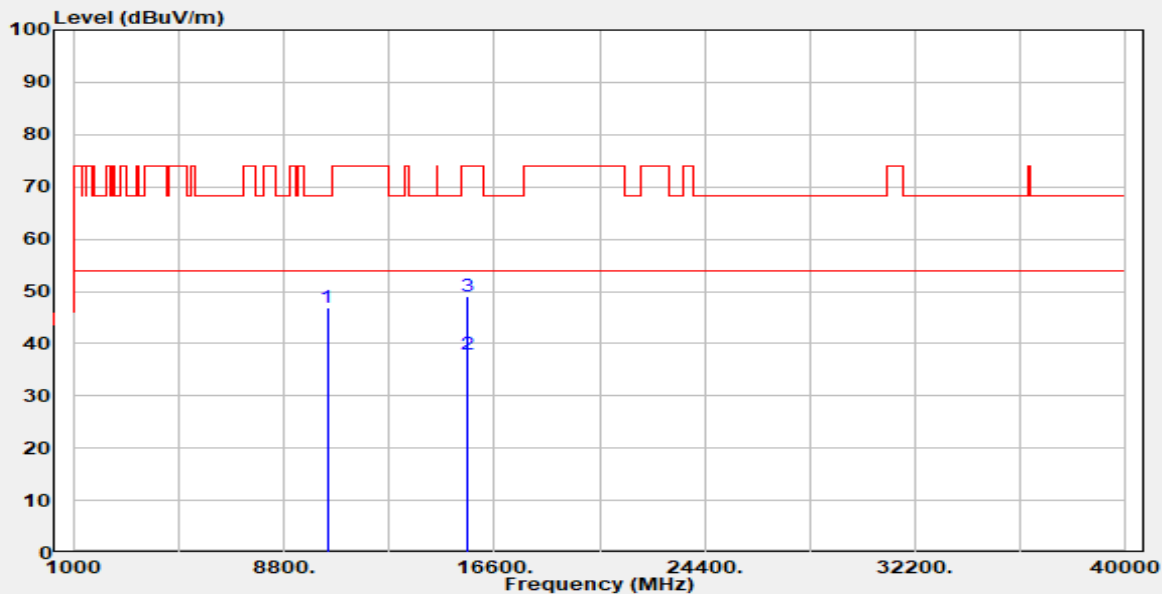
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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5190 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.00	Peak	38.04	8.76	46.80	68.20	-21.40
15570.00	Average	31.61	6.45	38.06	54.00	-15.94
15570.00	Peak	42.50	6.45	48.95	74.00	-25.05

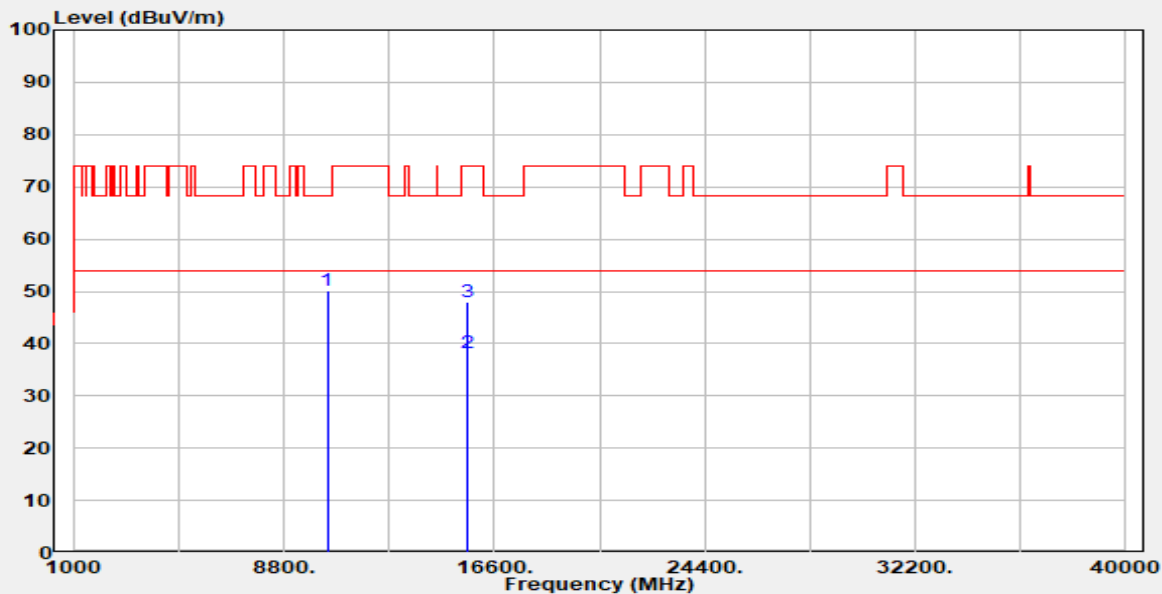
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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5190 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



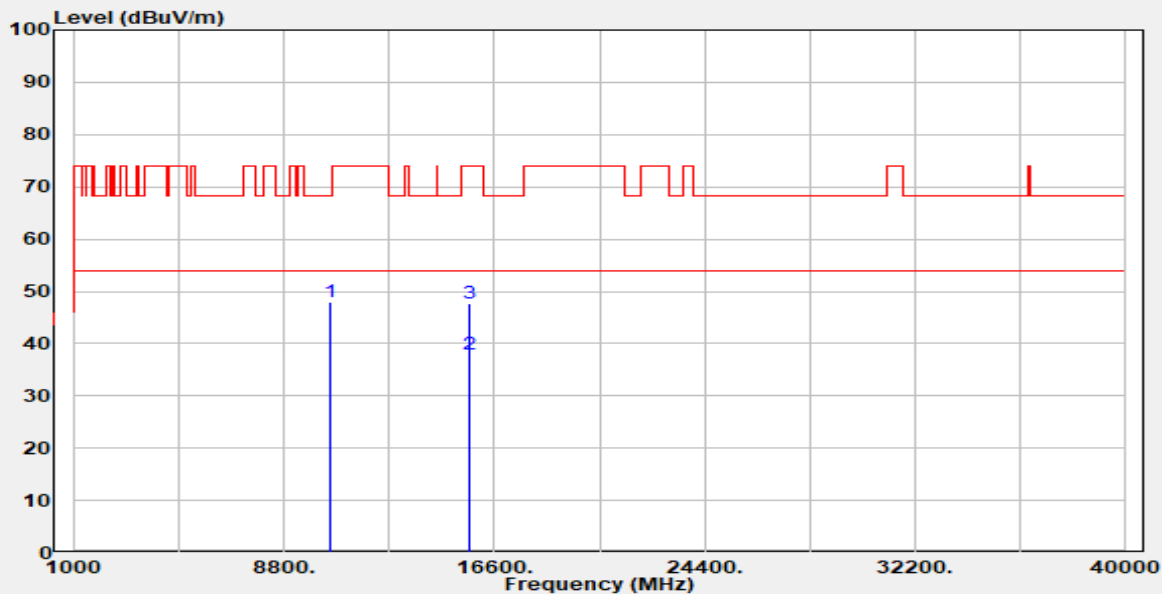
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.00	Peak	41.49	8.76	50.25	68.20	-17.95
15570.00	Average	31.75	6.45	38.20	54.00	-15.80
15570.00	Peak	41.62	6.45	48.07	74.00	-25.93

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



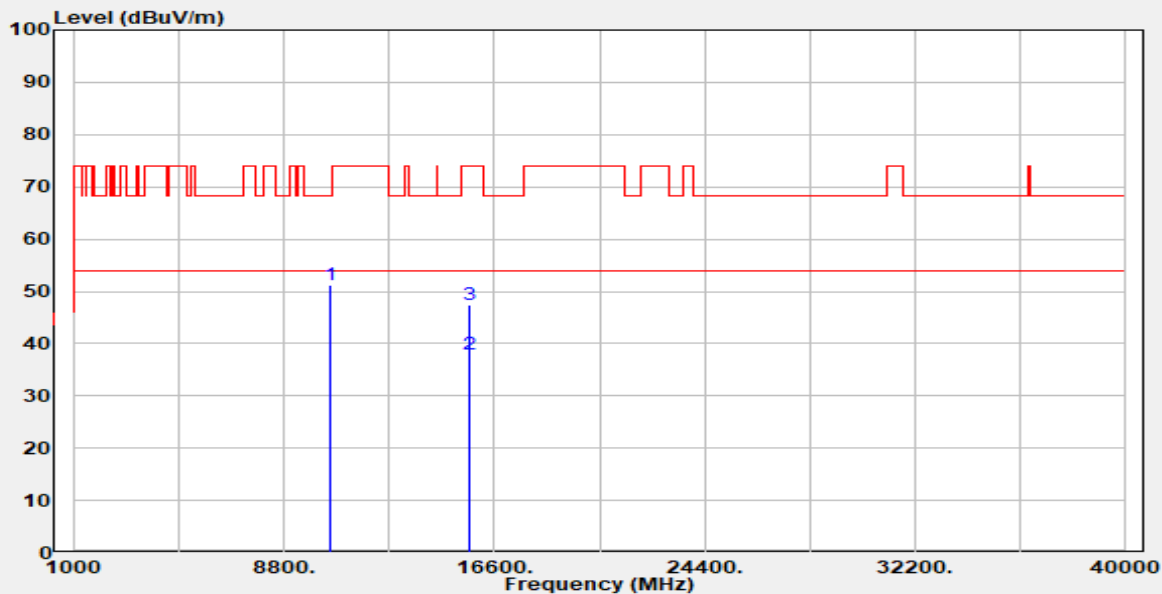
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.00	Peak	38.93	9.05	47.98	68.20	-20.22
15690.00	Average	31.79	6.10	37.89	54.00	-16.11
15690.00	Peak	41.66	6.10	47.76	74.00	-26.24

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



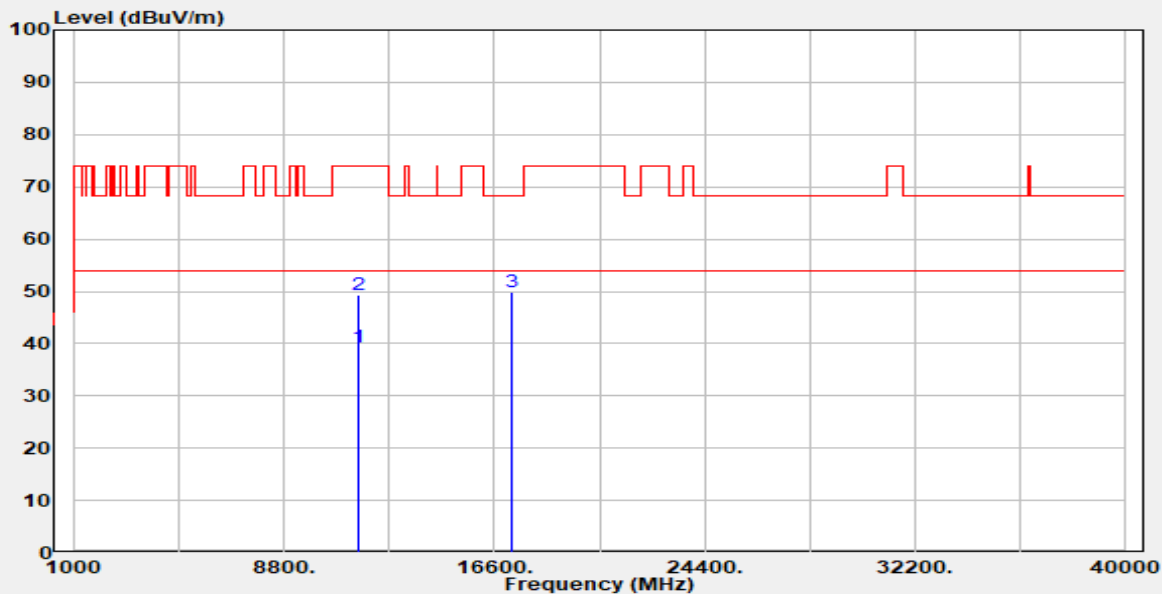
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.00	Peak	42.22	9.05	51.27	68.20	-16.93
15690.00	Average	31.72	6.10	37.82	54.00	-16.18
15690.00	Peak	41.28	6.10	47.38	74.00	-26.62

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5755 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-27  
Temp./Humi. :21.8°C/69%  
Antenna Pol. :Vertical  
Engineer :Alex Li



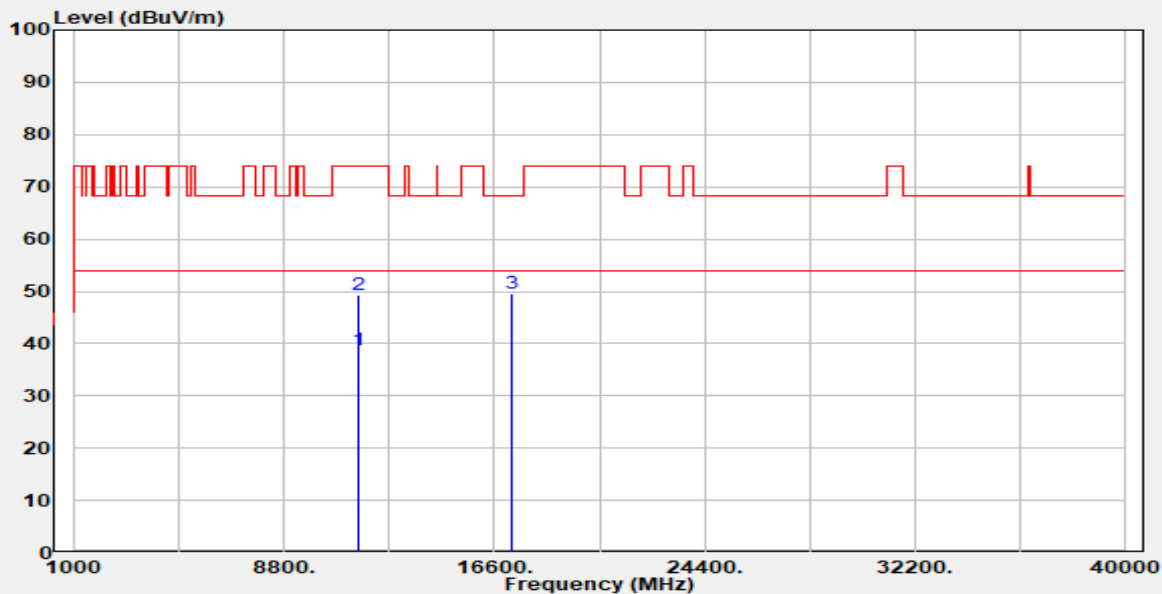
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11510.00	Average	30.72	8.64	39.36	54.00	-14.64
11510.00	Peak	40.78	8.64	49.42	74.00	-24.58
17265.00	Peak	40.38	9.58	49.96	68.20	-18.24

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5755 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-27  
Temp./Humi. :21.8°C/69%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11510.00	Average	30.15	8.64	38.79	54.00	-15.21
11510.00	Peak	40.69	8.64	49.33	74.00	-24.67
17265.00	Peak	40.11	9.58	49.69	68.20	-18.51

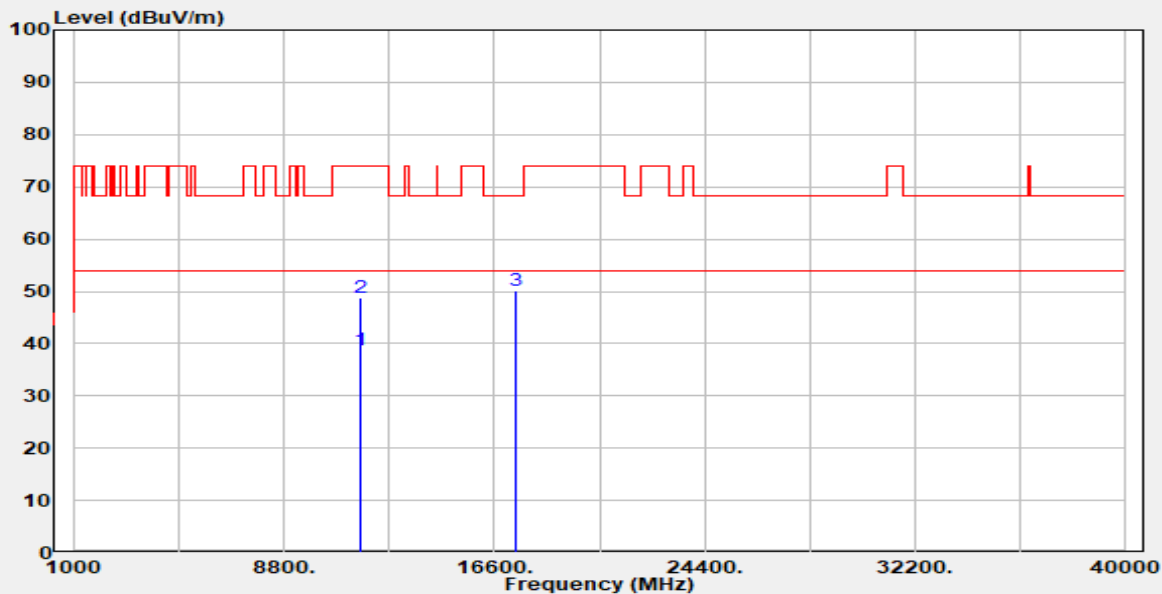
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Report Number :TERF2504001490E2  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Tx  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-27  
 Temp./Humi. :21.8°C/69%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



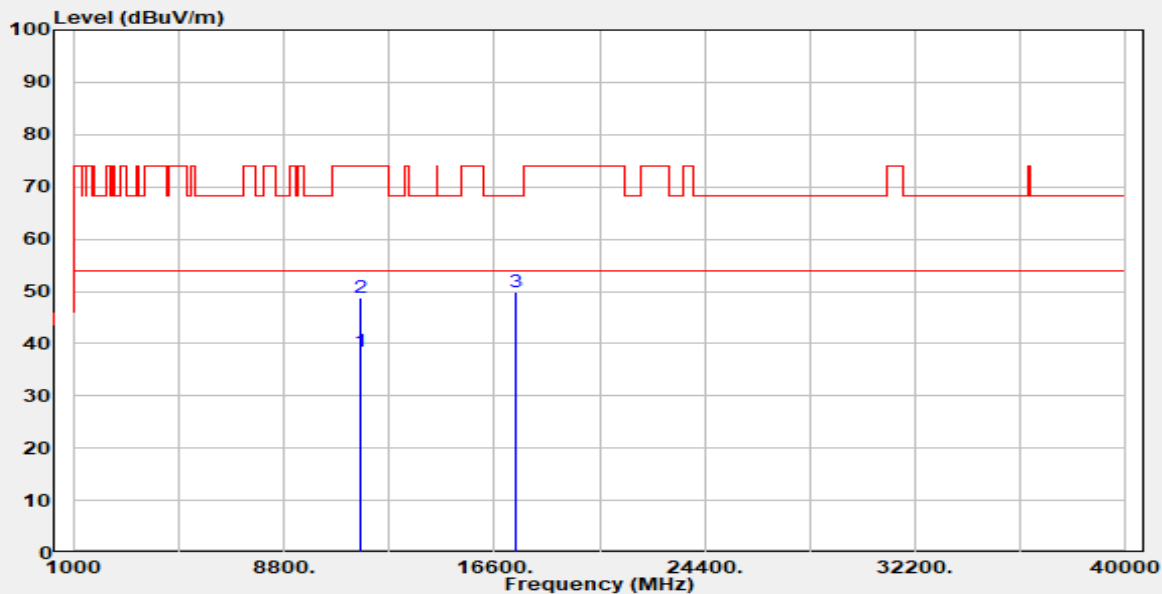
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11590.00	Average	30.65	8.17	38.82	54.00	-15.18
11590.00	Peak	40.62	8.17	48.79	74.00	-25.21
17385.00	Peak	39.92	10.25	50.17	68.20	-18.03

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5795 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-27  
Temp./Humi. :21.8°C/69%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11590.00	Average	30.41	8.17	38.58	54.00	-15.42
11590.00	Peak	40.72	8.17	48.89	74.00	-25.11
17385.00	Peak	39.56	10.25	49.81	68.20	-18.39

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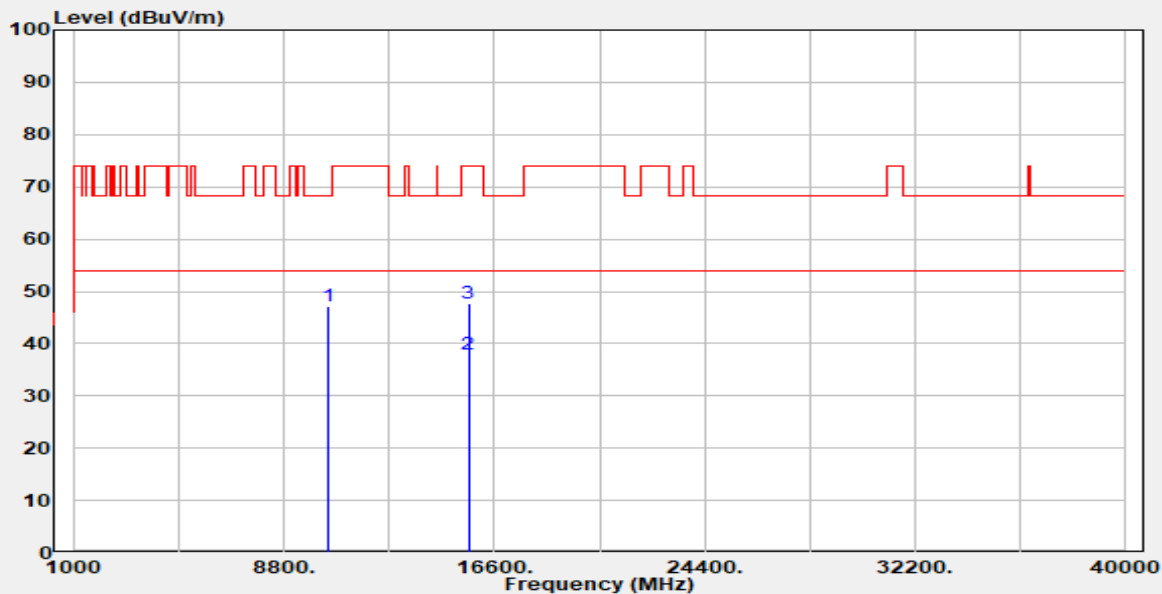
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Report Number :TERF2504001490E2  
Operation Mode :802.11ac80  
Test Frequency :5210 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



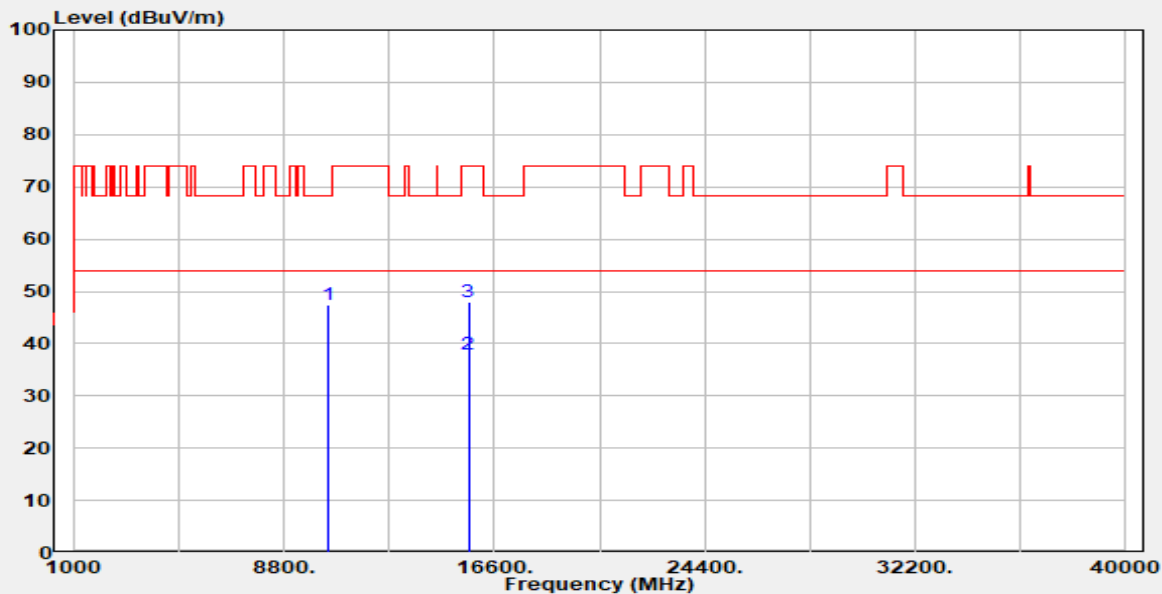
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.00	Peak	38.12	8.91	47.03	68.20	-21.17
15630.00	Average	31.78	6.04	37.82	54.00	-16.18
15630.00	Peak	41.56	6.04	47.60	74.00	-26.40

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Report Number :TERF2504001490E2  
Operation Mode :802.11ac80  
Test Frequency :5210 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



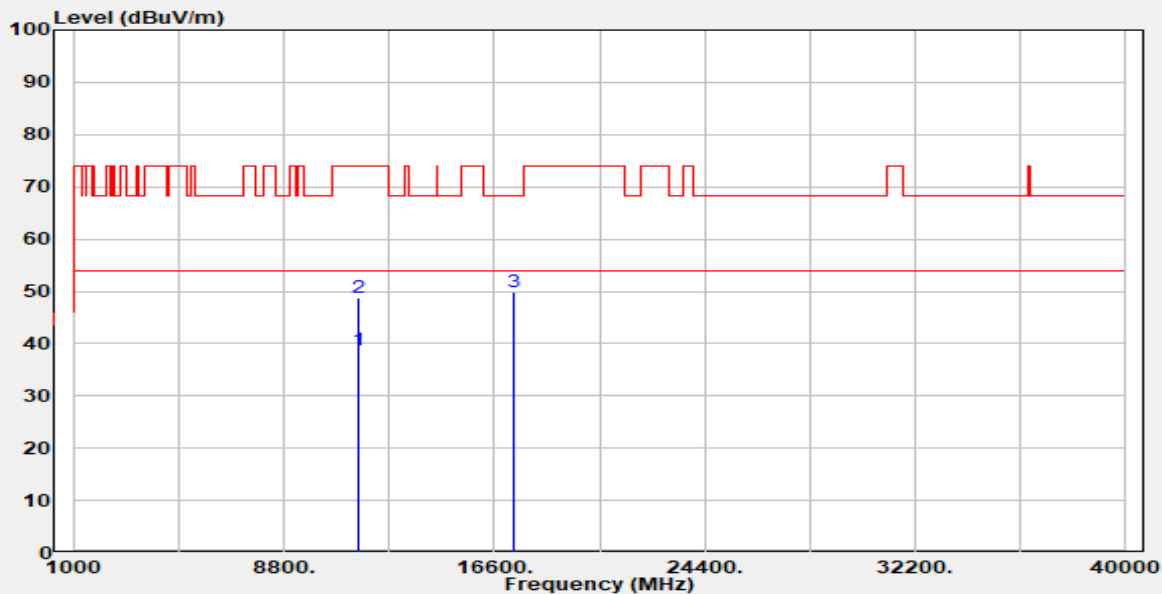
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.00	Peak	38.57	8.91	47.48	68.20	-20.72
15630.00	Average	31.96	6.04	38.00	54.00	-16.00
15630.00	Peak	41.80	6.04	47.84	74.00	-26.16

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Report Number :TERF2504001490E2  
Operation Mode :802.11ac80  
Test Frequency :5775 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11550.00	Average	30.22	8.49	38.71	54.00	-15.29
11550.00	Peak	40.21	8.49	48.70	74.00	-25.30
17325.00	Peak	40.02	9.73	49.75	68.20	-18.45

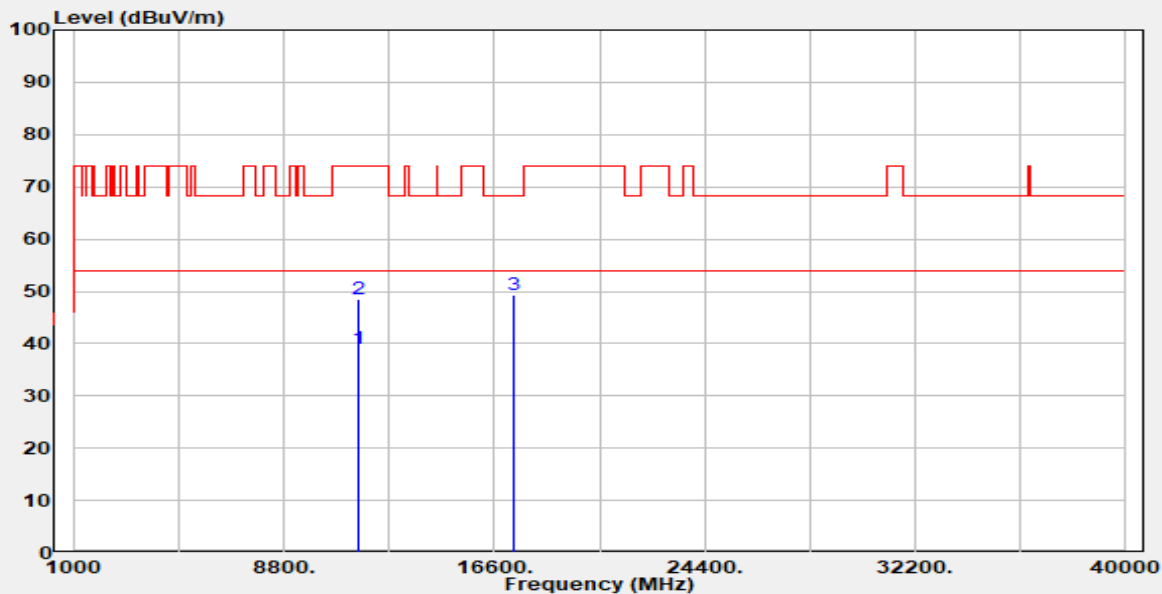
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Report Number :TERF2504001490E2  
Operation Mode :802.11ac80  
Test Frequency :5775 MHz  
Test Mode :Tx  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.1°C/60%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11550.00	Average	30.46	8.49	38.95	54.00	-15.05
11550.00	Peak	40.07	8.49	48.56	74.00	-25.44
17325.00	Peak	39.67	9.73	49.40	68.20	-18.80

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## 11.7.1 Band edge falling to restricted band

## 11.8 Radiated Band Edge Measurement Result

Report Number :TERF2504001490E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2025-05-22

Test Frequency :5180 MHz

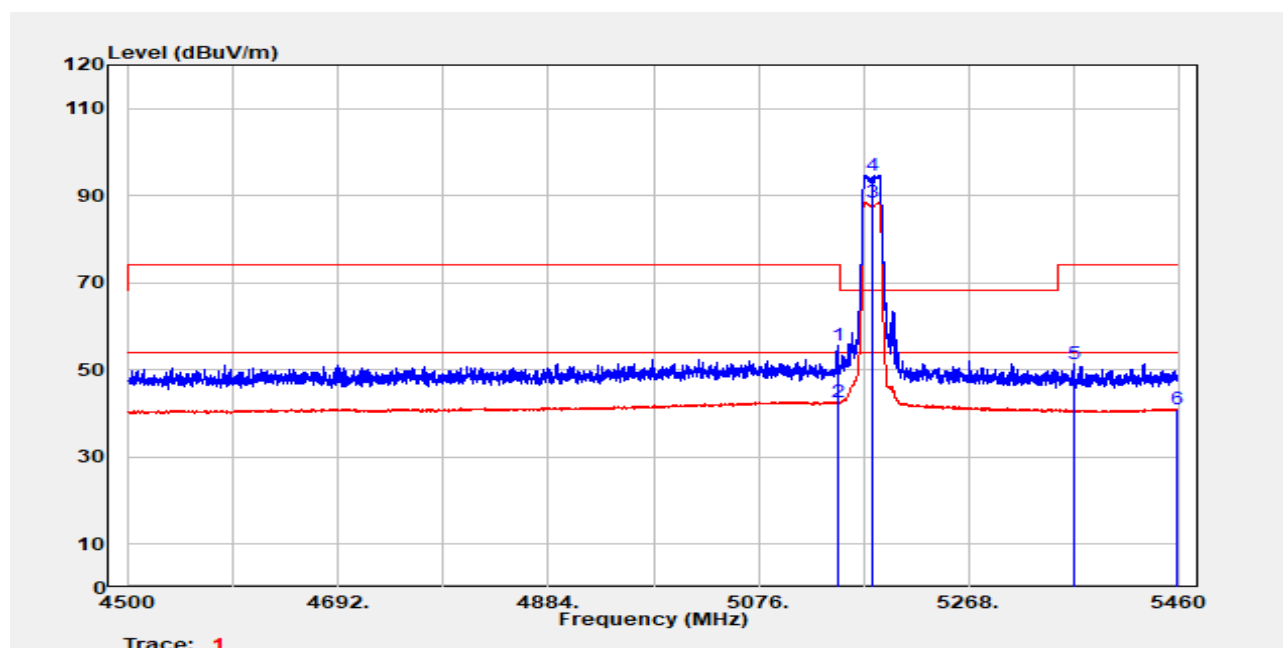
Temp./Humi. :22.2°C/55%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Alex Li



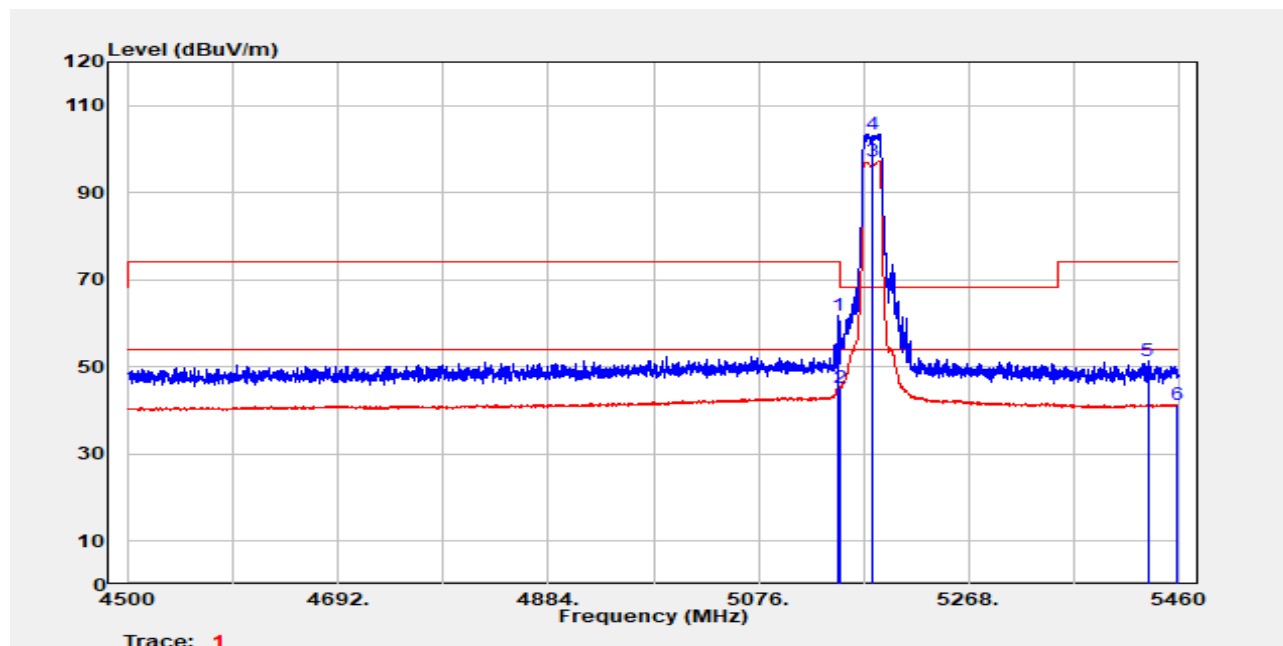
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5148.64	Peak	54.68	0.83	55.51	74.00	-18.49
5149.12	Average	41.94	0.82	42.76	54.00	-11.24
5180.00	Average	87.54	0.83	88.37	-	-
5180.00	Peak	93.78	0.83	94.61	-	-
5365.42	Peak	50.60	0.80	51.40	74.00	-22.60
5459.52	Average	39.90	1.17	41.07	54.00	-12.93

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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5180 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-22  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.40	Peak	61.10	0.83	61.93	74.00	-12.07
5150.00	Average	44.30	0.83	45.13	54.00	-8.87
5180.00	Average	96.44	0.83	97.27	-	-
5180.00	Peak	102.63	0.83	103.46	-	-
5432.15	Peak	50.24	1.03	51.27	74.00	-22.73
5459.28	Average	40.23	1.17	41.40	54.00	-12.60

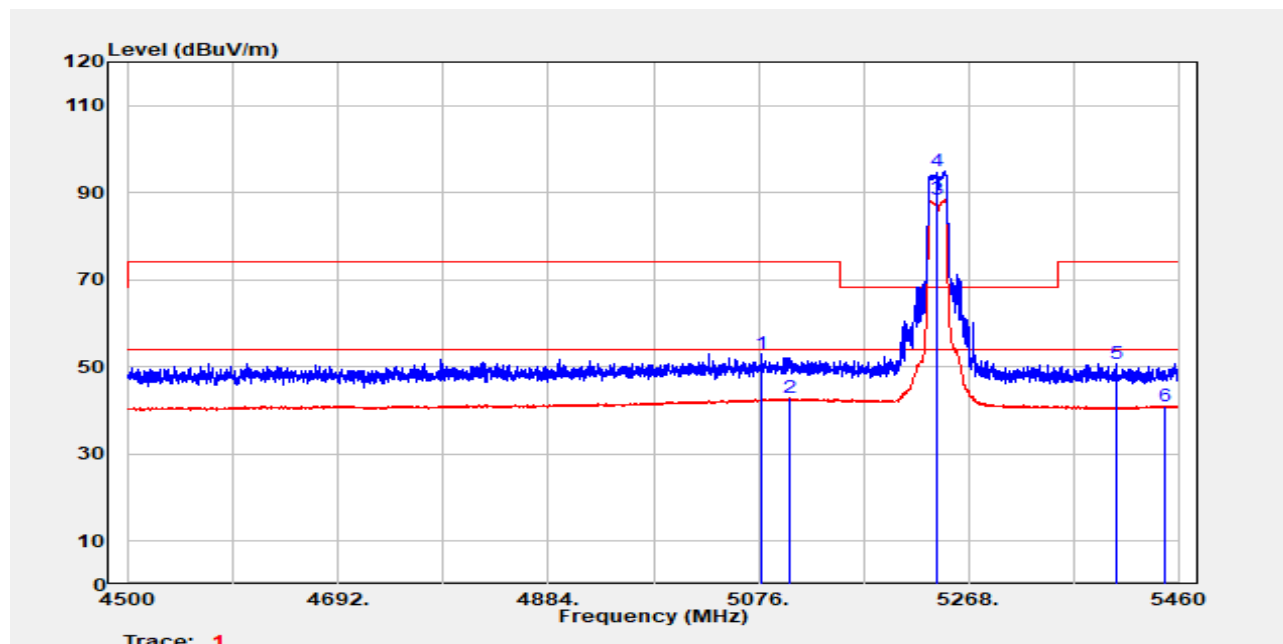
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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5240 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-22  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5078.54	Peak	52.03	0.96	52.99	74.00	-21.01
5105.43	Average	41.78	0.99	42.77	54.00	-11.23
5240.00	Average	87.62	0.70	88.32	-	-
5240.00	Peak	94.12	0.70	94.82	-	-
5403.83	Peak	50.03	0.83	50.86	74.00	-23.14
5447.28	Average	40.00	1.13	41.13	54.00	-12.87

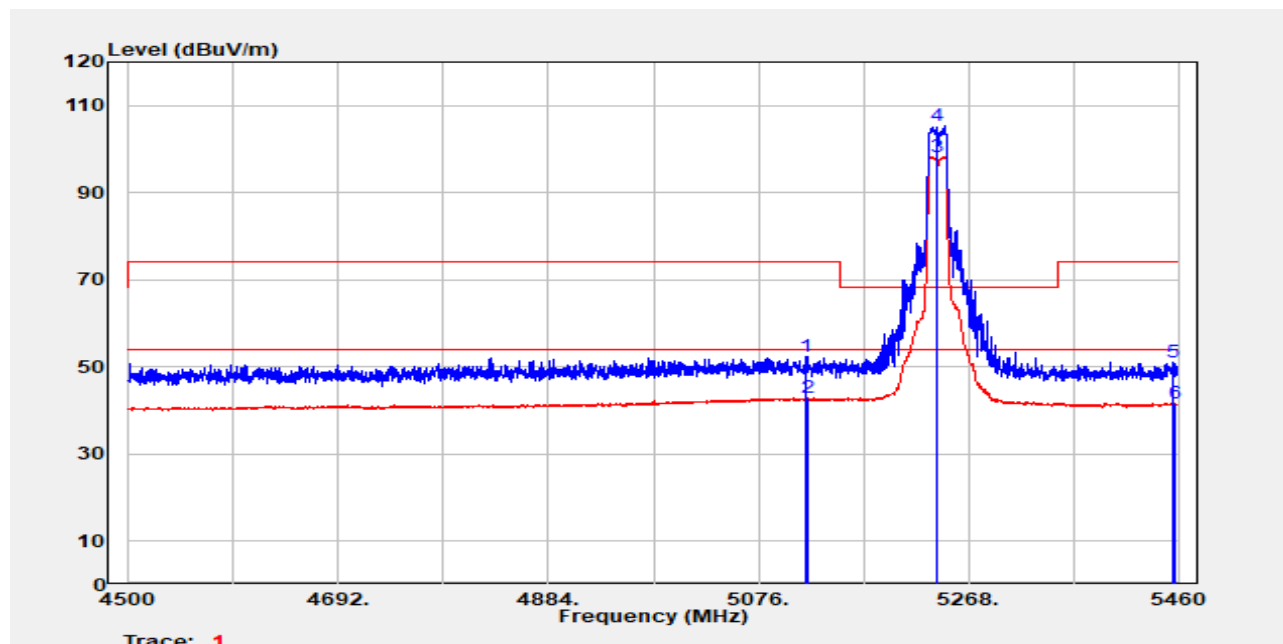
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Report Number :TERF2504001490E2  
Operation Mode :802.11a  
Test Frequency :5240 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-22  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5120.08	Peak	51.49	0.94	52.43	74.00	-21.57
5121.76	Average	41.91	0.93	42.84	54.00	-11.16
5240.00	Average	97.61	0.70	98.31	-	-
5240.00	Peak	104.60	0.70	105.30	-	-
5454.96	Peak	50.04	1.17	51.21	74.00	-22.79
5457.36	Average	40.52	1.17	41.69	54.00	-12.31

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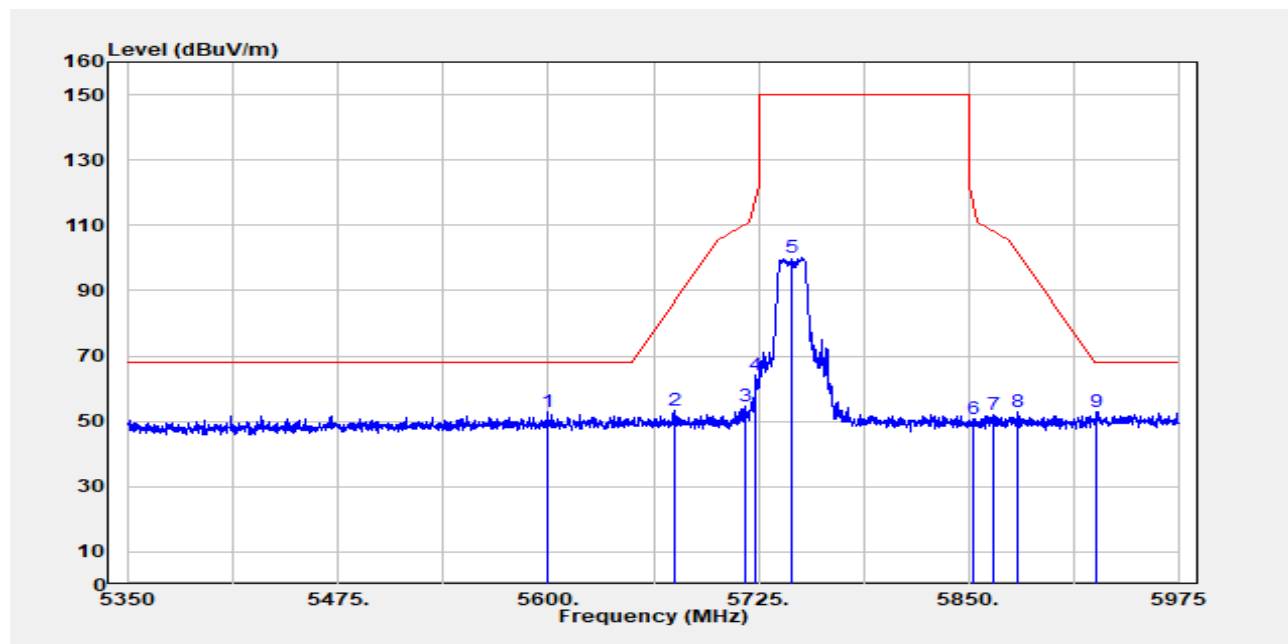
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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-22  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5599.46	Peak	51.97	1.14	53.11	68.20	-15.09
5674.69	Peak	51.82	1.55	53.37	86.47	-33.10
5717.41	Peak	52.90	1.68	54.58	110.08	-55.50
5723.25	Peak	62.38	1.67	64.05	118.21	-54.16
5745.00	Peak	98.33	1.66	99.99	-	-
5853.50	Peak	49.08	1.76	50.84	114.22	-63.38
5865.38	Peak	50.04	1.82	51.86	107.89	-56.03
5879.76	Peak	51.15	1.89	53.04	101.68	-48.64
5926.65	Peak	50.81	2.18	52.99	68.20	-15.21

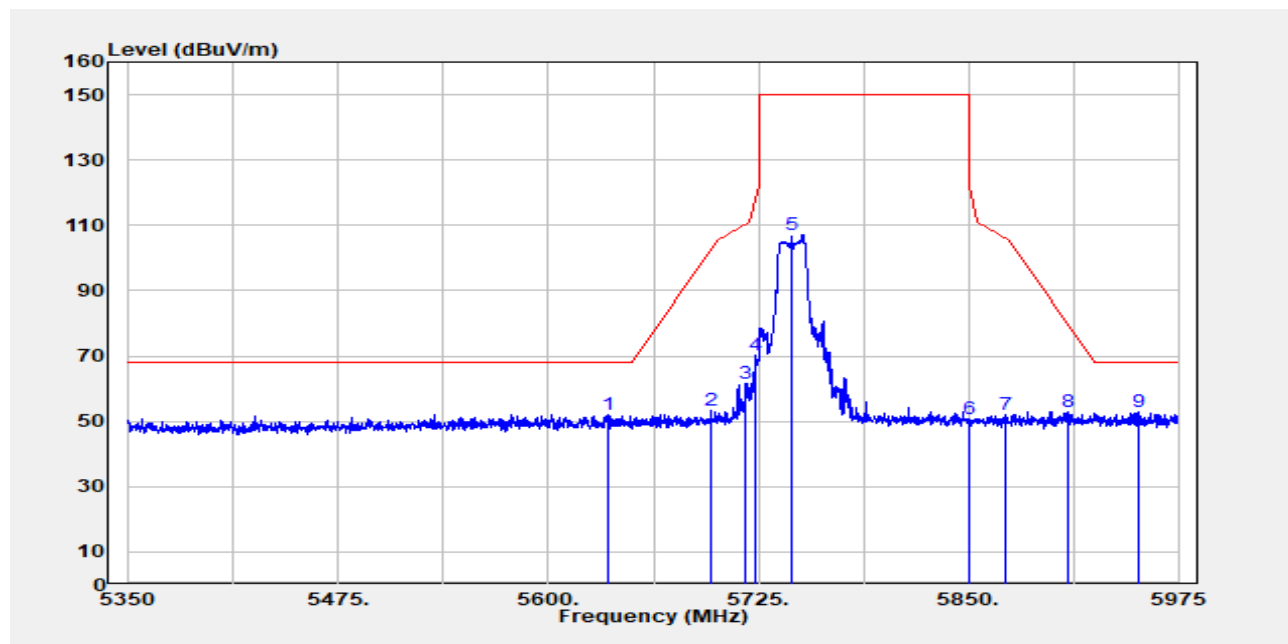
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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-22  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



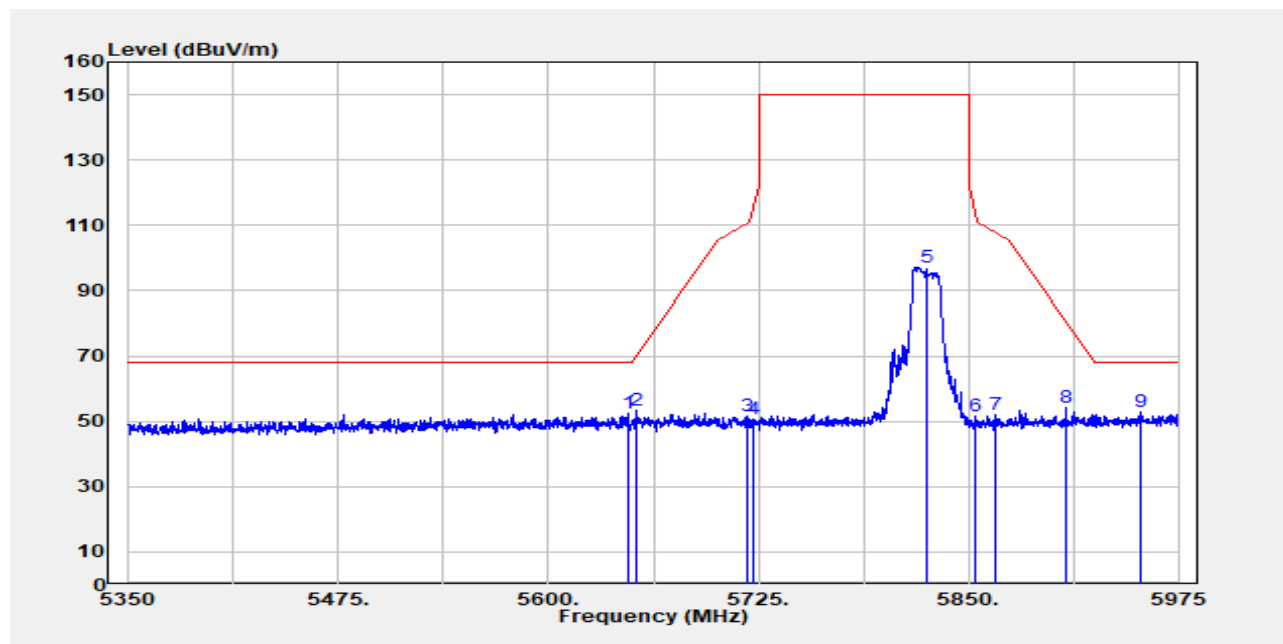
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5635.93	Peak	50.73	1.34	52.07	68.20	-16.13
5696.57	Peak	51.49	1.69	53.18	102.66	-49.48
5717.41	Peak	60.05	1.68	61.73	110.08	-48.35
5723.25	Peak	68.76	1.67	70.43	118.21	-47.78
5745.00	Peak	105.31	1.66	106.97	-	-
5850.58	Peak	49.16	1.75	50.91	120.87	-69.96
5871.63	Peak	50.37	1.85	52.22	106.14	-53.92
5909.15	Peak	51.06	2.05	53.11	79.93	-26.82
5951.66	Peak	50.49	2.37	52.86	68.20	-15.34

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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-22  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.18	Peak	51.24	1.41	52.65	68.20	-15.55
5652.60	Peak	52.04	1.43	53.47	70.12	-16.65
5718.87	Peak	49.99	1.68	51.67	110.48	-58.81
5721.58	Peak	48.92	1.67	50.59	114.41	-63.82
5825.00	Peak	95.61	1.72	97.33	-	-
5854.54	Peak	49.64	1.77	51.41	111.84	-60.43
5866.21	Peak	50.35	1.82	52.17	107.66	-55.49
5908.10	Peak	52.15	2.05	54.20	80.70	-26.50
5952.28	Peak	50.40	2.37	52.77	68.20	-15.43

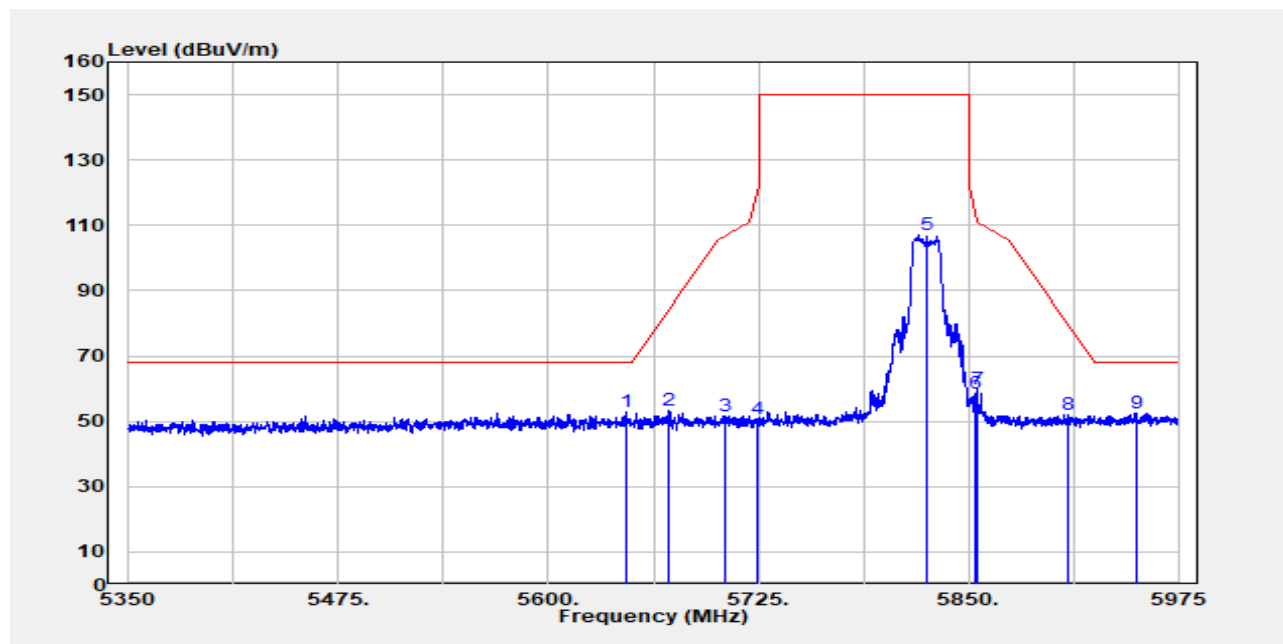
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Report Number :TERF2504001490E2  
 Operation Mode :802.11a  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-22  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5646.56	Peak	51.29	1.41	52.70	68.20	-15.50
5671.98	Peak	51.72	1.54	53.26	84.47	-31.21
5705.74	Peak	50.07	1.69	51.76	106.81	-55.05
5724.29	Peak	49.09	1.67	50.76	120.59	-69.83
5825.00	Peak	105.23	1.72	106.95	-	-
5854.54	Peak	56.70	1.77	58.47	111.84	-53.37
5855.59	Peak	57.99	1.77	59.76	110.64	-50.88
5909.35	Peak	50.07	2.06	52.13	79.78	-27.65
5949.78	Peak	50.24	2.36	52.60	68.20	-15.60

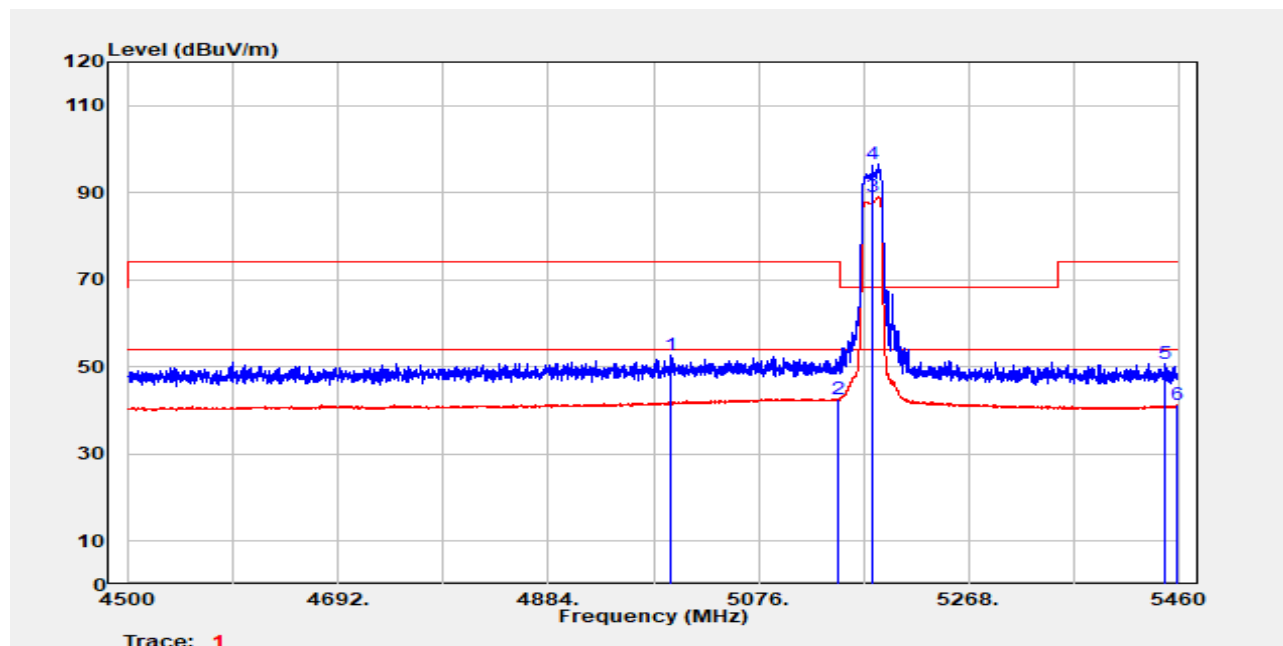
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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-22  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



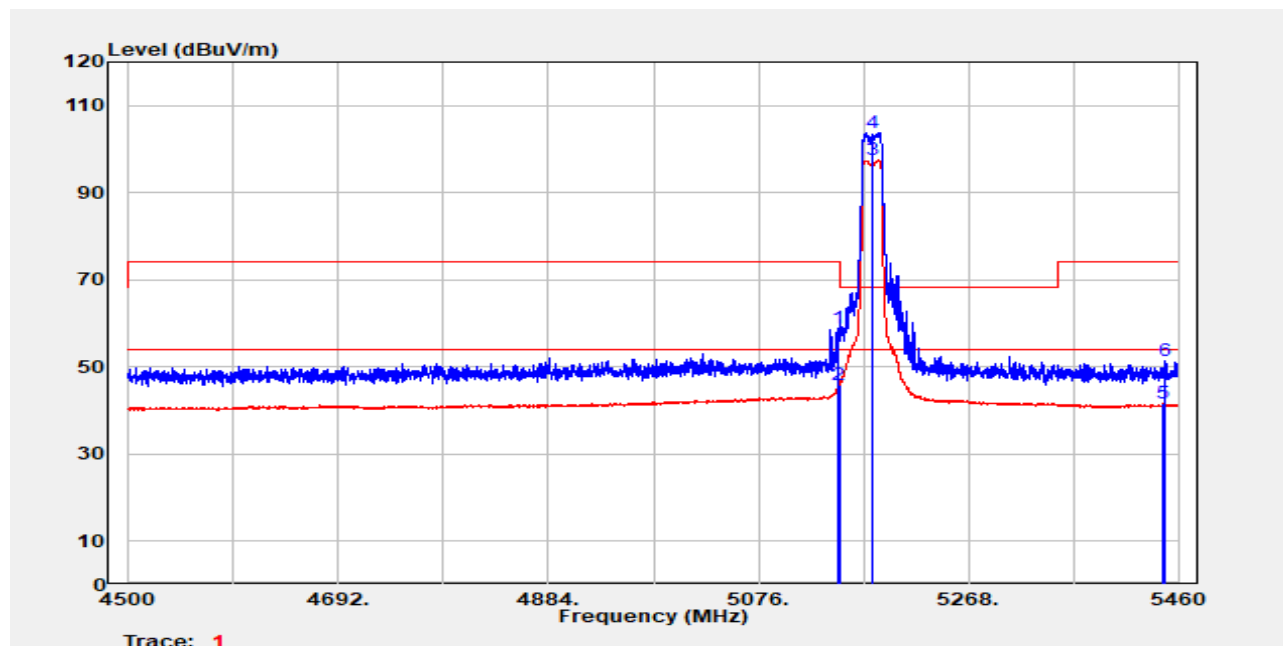
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4995.48	Peak	52.01	0.66	52.67	74.00	-21.33
5149.36	Average	41.92	0.82	42.74	54.00	-11.26
5180.00	Average	88.12	0.83	88.95	-	-
5180.00	Peak	95.70	0.83	96.53	-	-
5448.72	Peak	49.65	1.14	50.79	74.00	-23.21
5459.76	Average	40.04	1.17	41.21	54.00	-12.79

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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5180 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-22  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.60	Peak	57.99	0.82	58.81	74.00	-15.19
5149.84	Average	45.15	0.82	45.97	54.00	-8.03
5180.00	Average	96.60	0.83	97.43	-	-
5180.00	Peak	102.94	0.83	103.77	-	-
5446.80	Average	40.34	1.13	41.47	54.00	-12.53
5448.72	Peak	50.18	1.14	51.32	74.00	-22.68

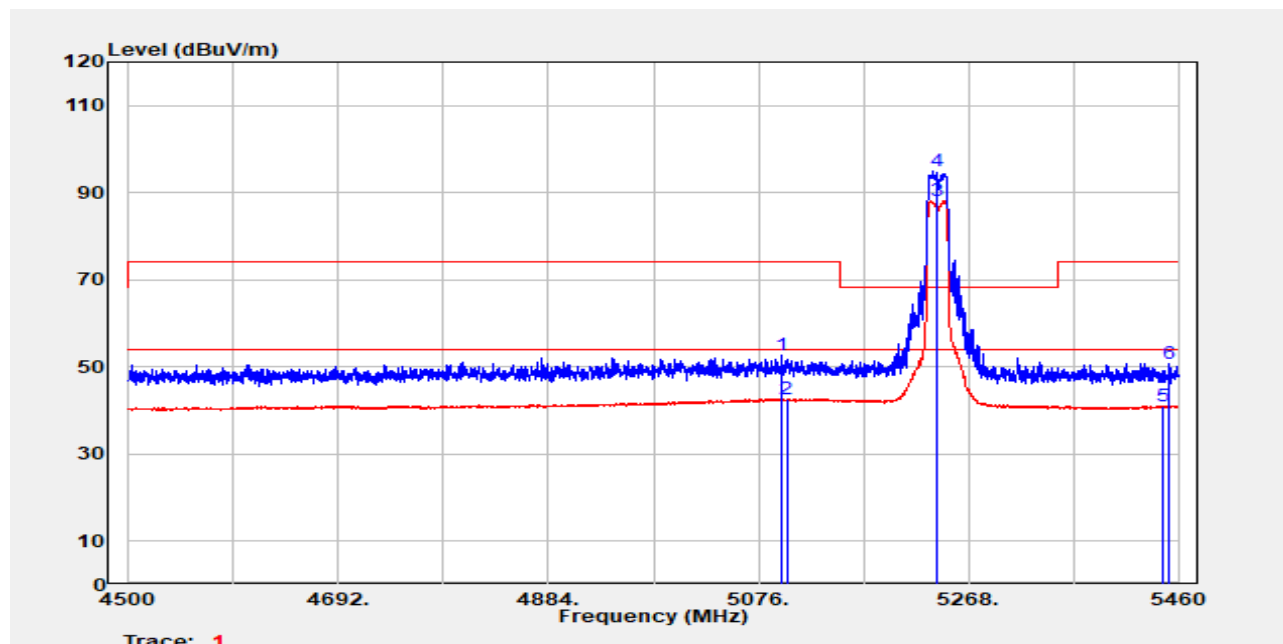
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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-22  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



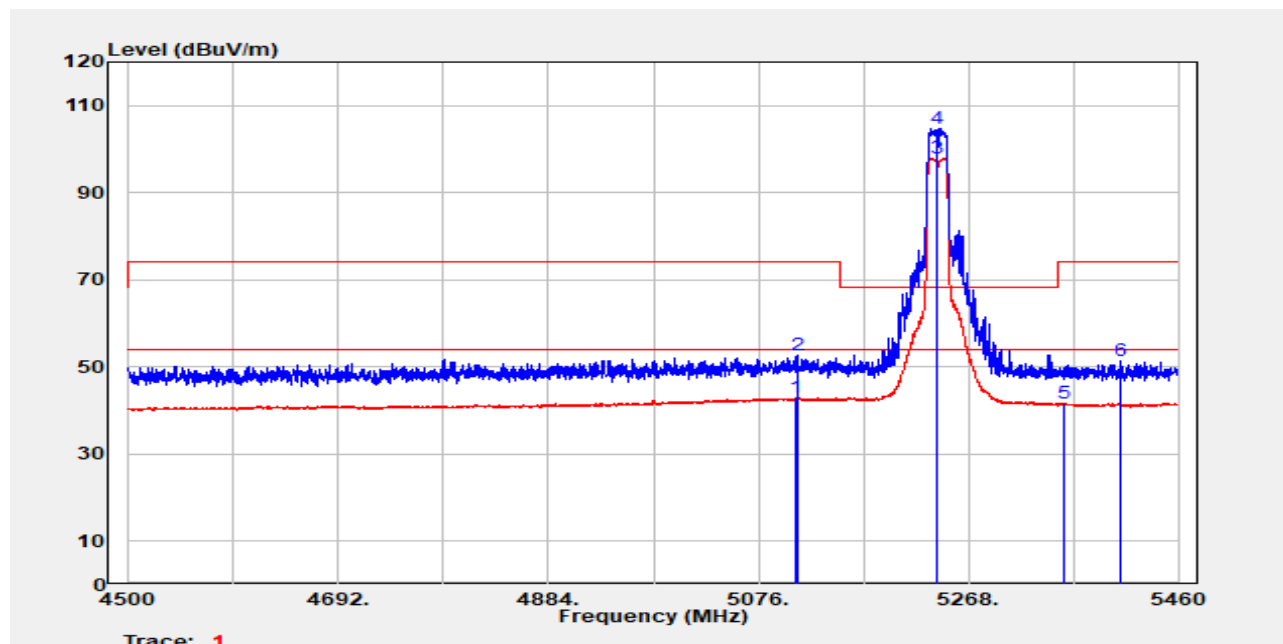
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5096.79	Peak	51.76	1.00	52.76	74.00	-21.24
5101.83	Average	41.64	1.00	42.64	54.00	-11.36
5240.00	Average	87.39	0.70	88.09	-	-
5240.00	Peak	94.37	0.70	95.07	-	-
5445.84	Average	39.91	1.13	41.04	54.00	-12.96
5452.32	Peak	49.64	1.17	50.81	74.00	-23.19

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Report Number :TERF2504001490E2  
Operation Mode :802.11n20  
Test Frequency :5240 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-22  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5110.23	Average	41.84	0.97	42.81	54.00	-11.19
5111.19	Peak	51.64	0.97	52.61	74.00	-21.39
5240.00	Average	97.20	0.70	97.90	-	-
5240.00	Peak	104.13	0.70	104.83	-	-
5356.05	Average	40.86	0.80	41.66	54.00	-12.34
5407.43	Peak	50.37	0.86	51.23	74.00	-22.77

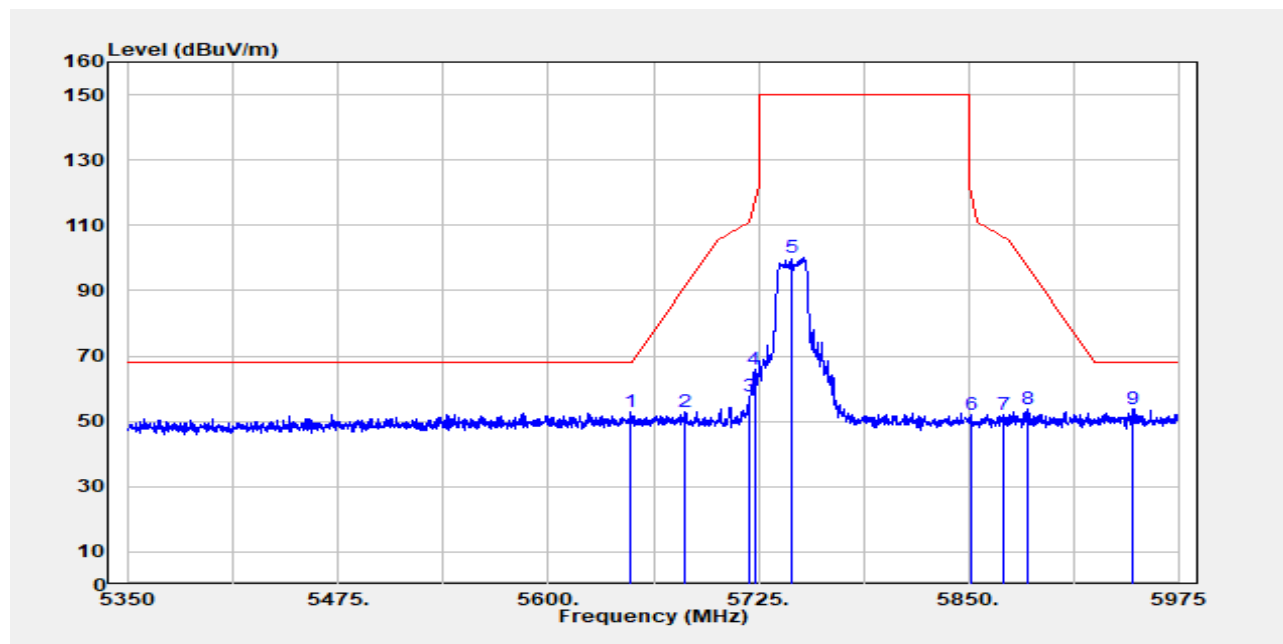
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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



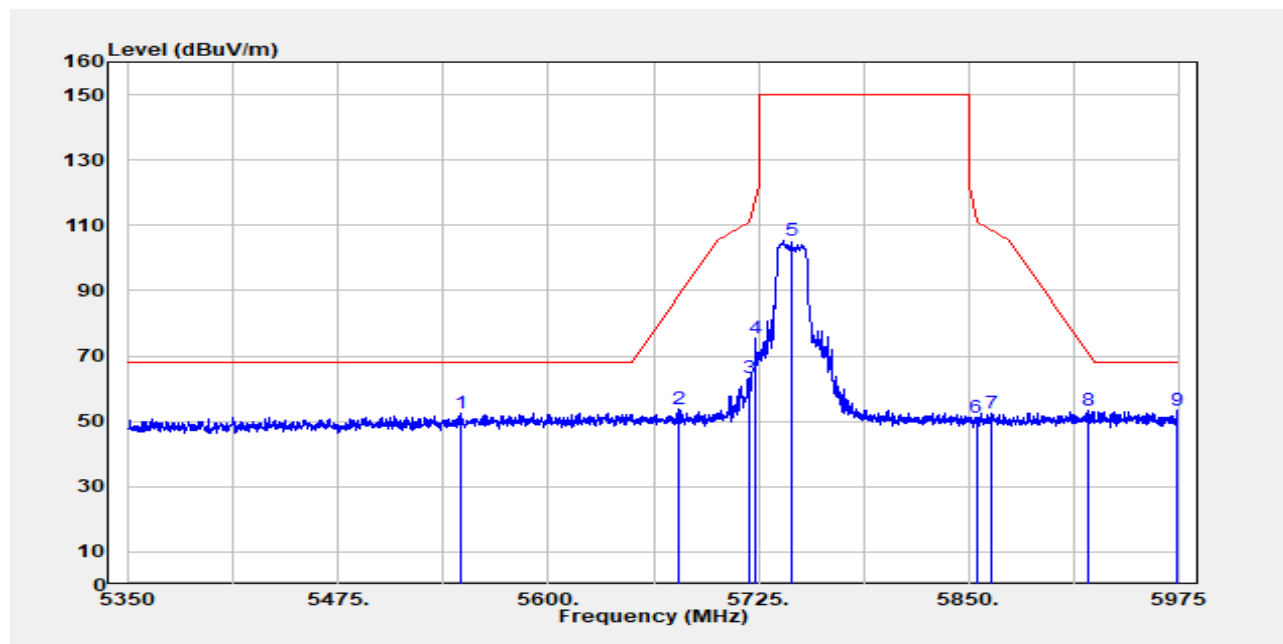
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.43	Peak	51.49	1.41	52.90	68.20	-15.30
5681.57	Peak	51.39	1.60	52.99	91.56	-38.57
5719.92	Peak	56.10	1.68	57.78	110.78	-53.00
5722.62	Peak	64.40	1.67	66.07	116.78	-50.71
5745.00	Peak	98.36	1.66	100.02	-	-
5851.63	Peak	50.08	1.76	51.84	118.50	-66.66
5871.01	Peak	50.26	1.84	52.10	106.32	-54.22
5885.80	Peak	51.85	1.91	53.76	97.21	-43.45
5948.32	Peak	51.39	2.35	53.74	68.20	-14.46

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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



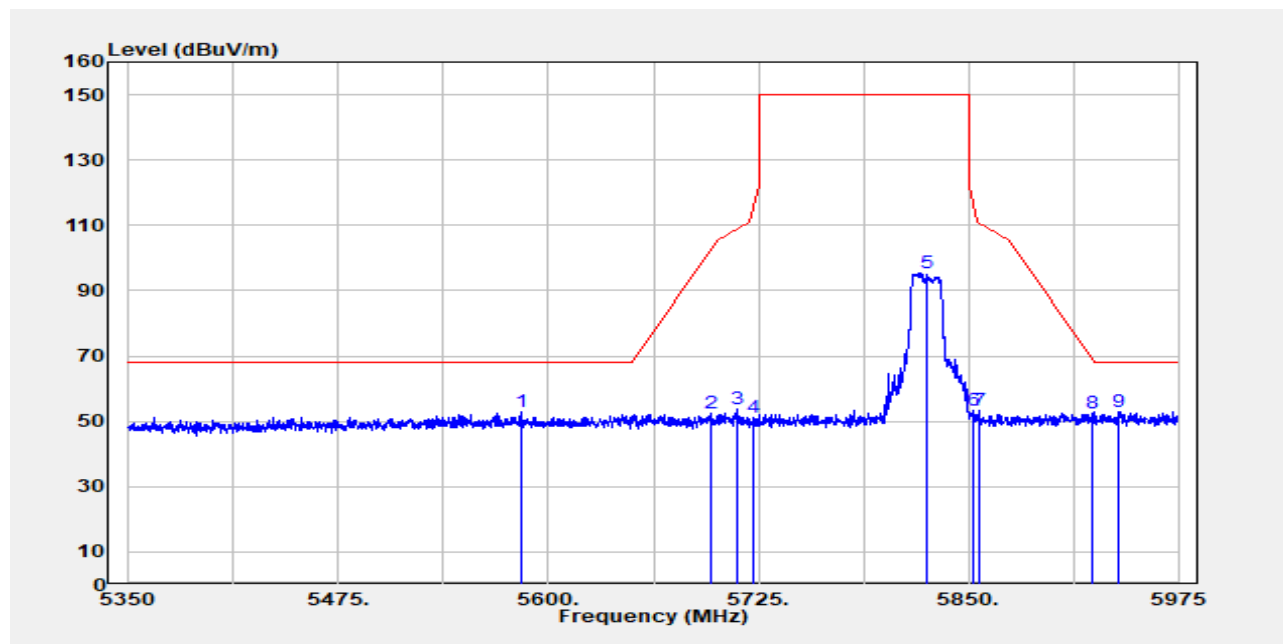
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5547.57	Peak	51.40	1.22	52.62	68.20	-15.58
5677.19	Peak	51.99	1.58	53.57	88.32	-34.75
5719.08	Peak	61.70	1.68	63.38	110.54	-47.16
5723.04	Peak	73.93	1.67	75.60	117.73	-42.13
5745.00	Peak	103.54	1.66	105.20	-	-
5854.75	Peak	49.41	1.77	51.18	111.37	-60.19
5863.50	Peak	50.58	1.80	52.38	108.42	-56.04
5921.44	Peak	51.12	2.15	53.27	70.83	-17.56
5974.38	Peak	50.77	2.41	53.18	68.20	-15.02

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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5583.41	Peak	51.64	1.17	52.81	68.20	-15.39
5696.78	Peak	50.91	1.69	52.60	102.82	-50.22
5712.00	Peak	52.16	1.69	53.85	108.56	-54.71
5722.21	Peak	49.54	1.67	51.21	115.83	-64.62
5825.00	Peak	93.61	1.72	95.33	-	-
5852.67	Peak	51.51	1.76	53.27	116.12	-62.85
5856.21	Peak	51.78	1.77	53.55	110.46	-56.91
5924.36	Peak	50.46	2.17	52.63	68.68	-16.05
5939.99	Peak	50.72	2.29	53.01	68.20	-15.19

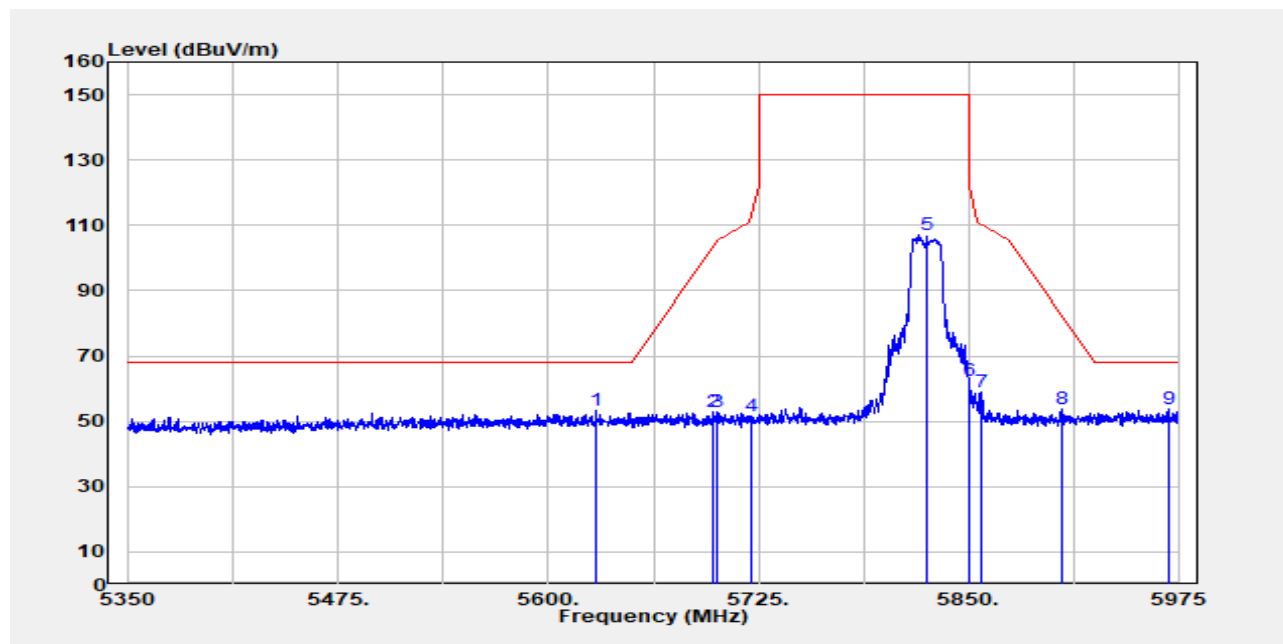
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Report Number :TERF2504001490E2  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5628.64	Peak	51.89	1.30	53.19	68.20	-15.01
5698.45	Peak	51.13	1.69	52.82	104.05	-51.23
5700.33	Peak	51.15	1.70	52.85	105.29	-52.44
5720.75	Peak	49.74	1.68	51.42	112.51	-61.09
5825.00	Peak	105.24	1.72	106.96	-	-
5850.00	Peak	60.63	1.74	62.37	122.20	-59.83
5857.25	Peak	57.00	1.78	58.78	110.17	-51.39
5905.39	Peak	51.58	2.01	53.59	82.71	-29.12
5969.58	Peak	51.53	2.40	53.93	68.20	-14.27

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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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

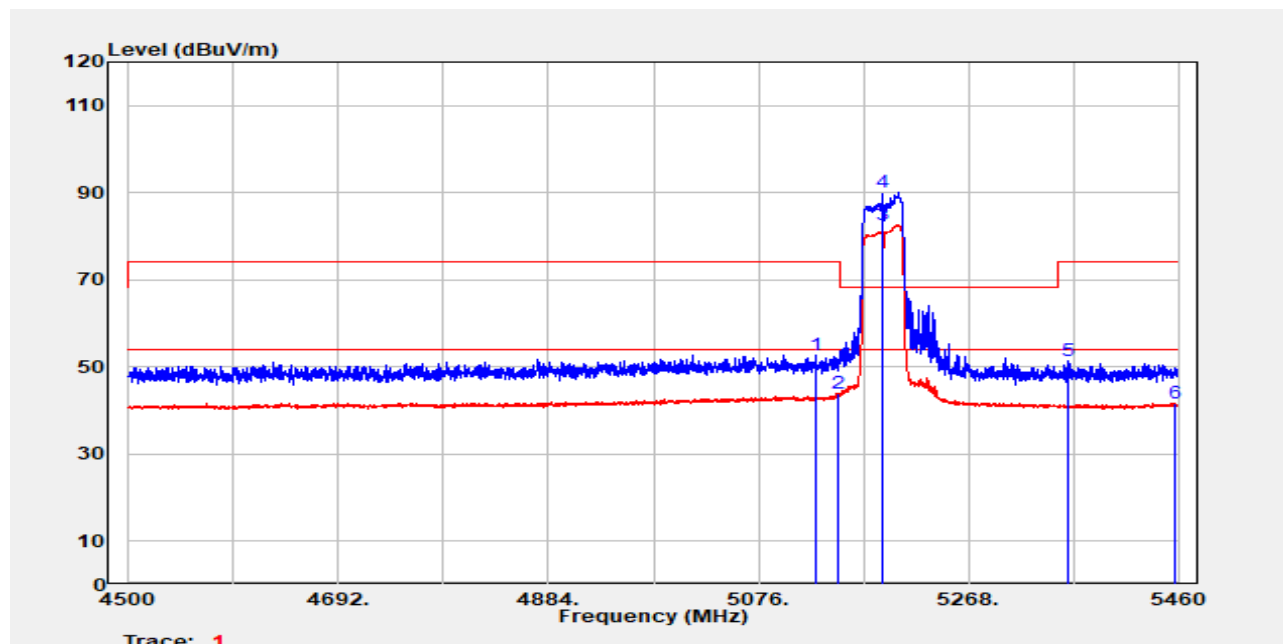
f (886-2) 2298-0488

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5190 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5128.96	Peak	51.92	0.90	52.82	74.00	-21.18
5148.16	Average	43.12	0.83	43.95	54.00	-10.05
5190.00	Average	81.70	0.84	82.54	-	-
5190.00	Peak	89.11	0.84	89.95	-	-
5359.42	Peak	50.74	0.80	51.54	74.00	-22.46
5456.64	Average	40.60	1.17	41.77	54.00	-12.23

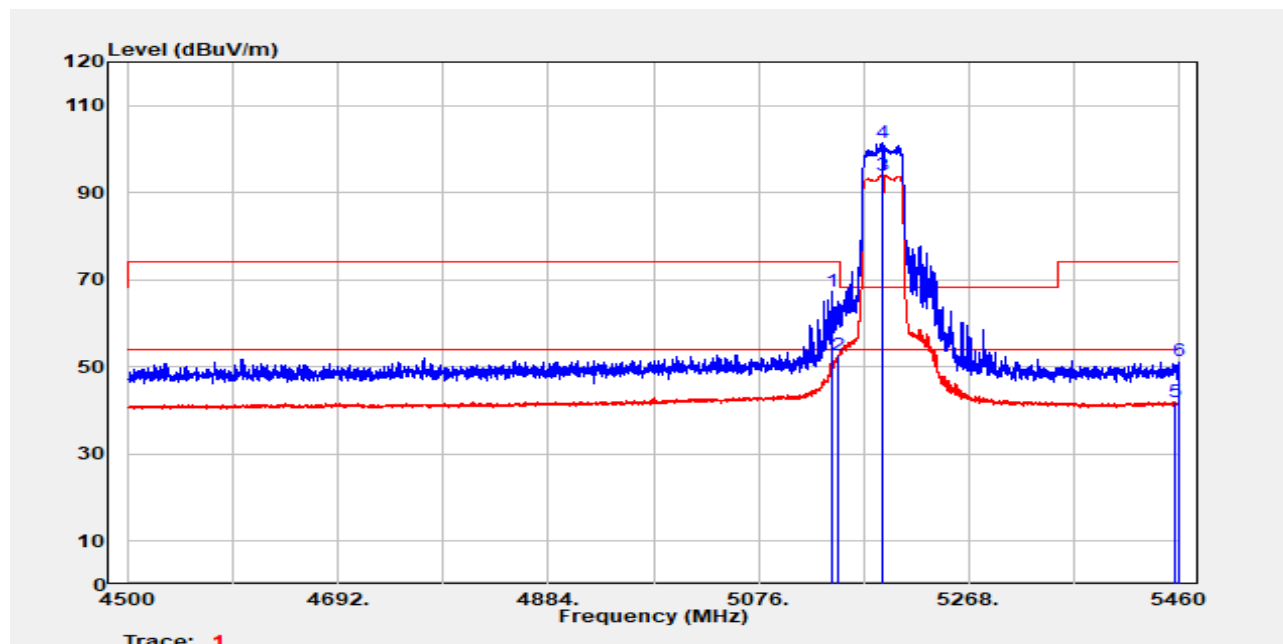
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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5190 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



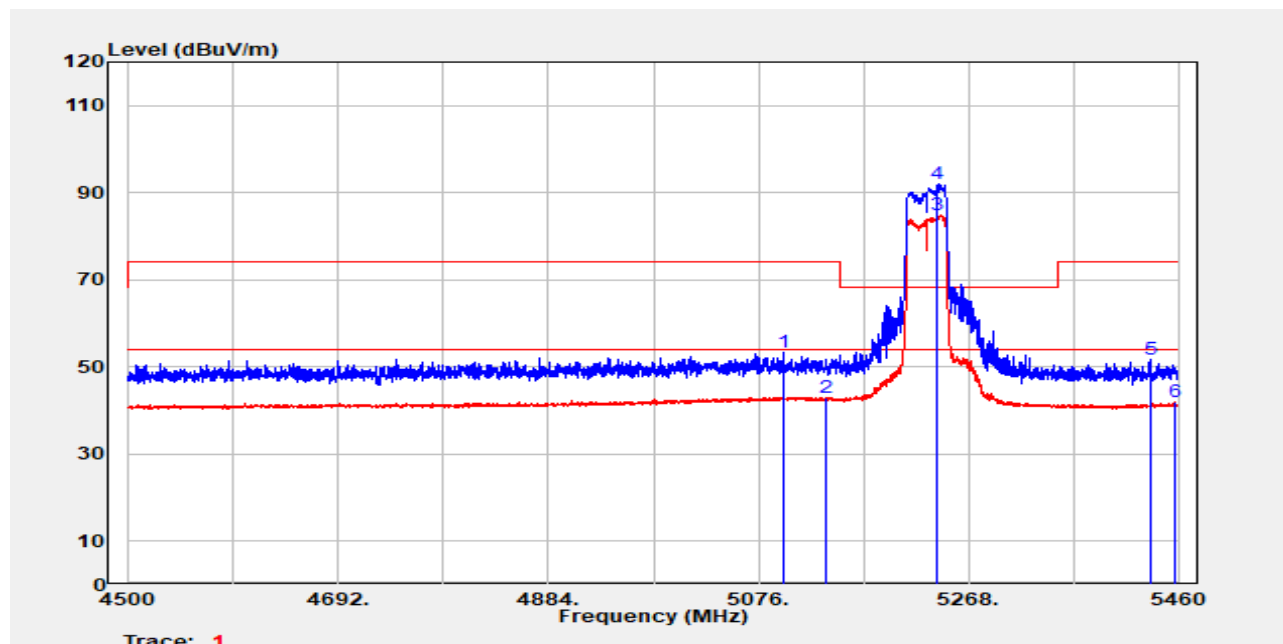
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5143.84	Peak	66.52	0.84	67.36	74.00	-6.64
5148.16	Average	51.99	0.83	52.82	54.00	-1.18
5190.00	Average	93.30	0.84	94.14	-	-
5190.00	Peak	100.57	0.84	101.41	-	-
5457.12	Average	40.87	1.17	42.04	54.00	-11.96
5460.00	Peak	50.20	1.17	51.37	74.00	-22.63

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5098.95	Peak	52.29	1.01	53.30	74.00	-20.70
5138.08	Average	42.20	0.87	43.07	54.00	-10.93
5240.00	Average	84.03	0.70	84.73	-	-
5240.00	Peak	91.29	0.70	91.99	-	-
5434.07	Peak	50.61	1.04	51.65	74.00	-22.35
5456.64	Average	40.89	1.17	42.06	54.00	-11.94

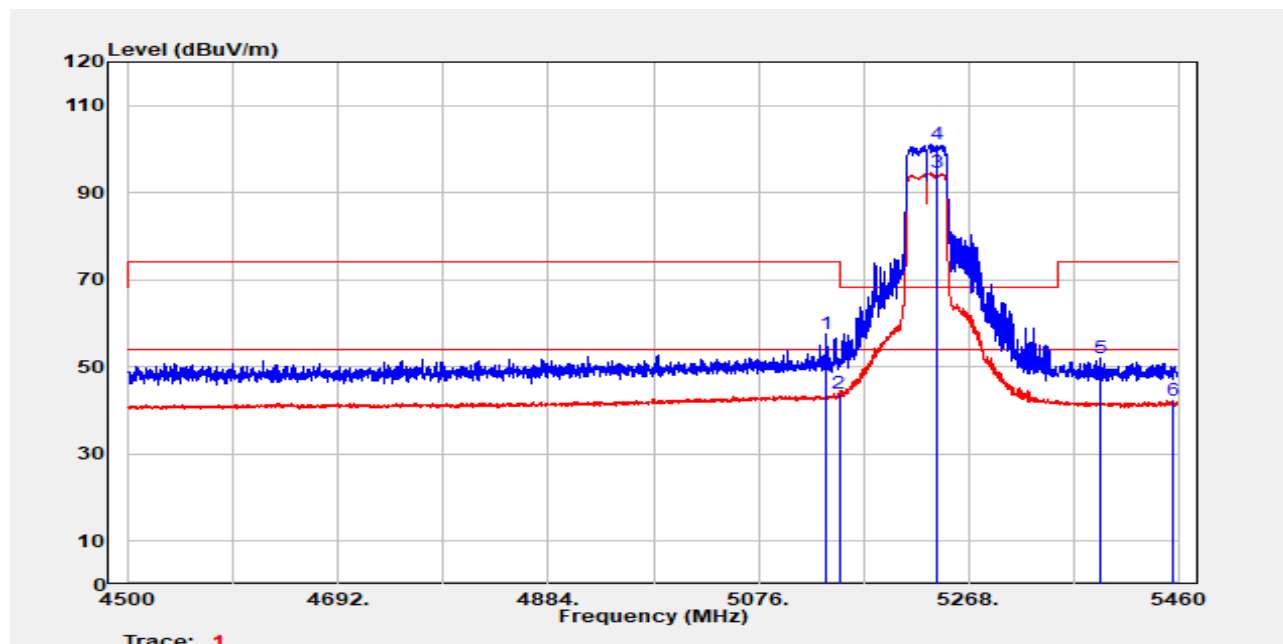
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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5138.08	Peak	56.66	0.87	57.53	74.00	-16.47
5149.84	Average	43.05	0.82	43.87	54.00	-10.13
5240.00	Average	93.84	0.70	94.54	-	-
5240.00	Peak	100.47	0.70	101.17	-	-
5388.94	Peak	51.25	0.80	52.05	74.00	-21.95
5455.68	Average	41.20	1.17	42.37	54.00	-11.63

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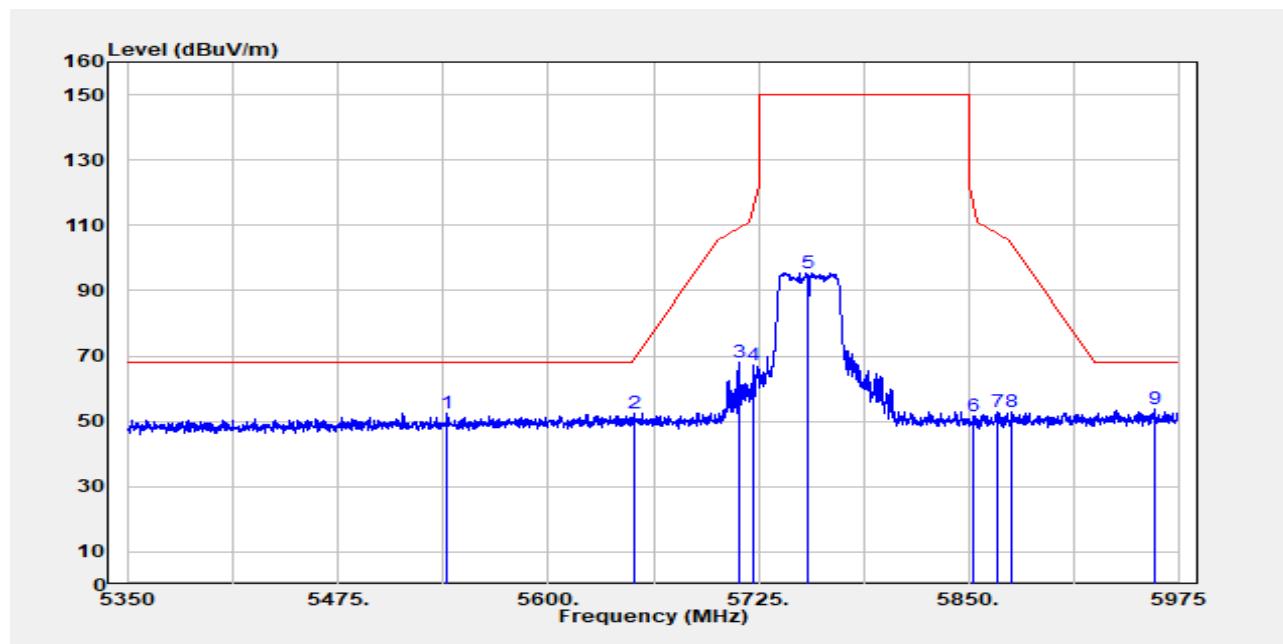
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Report Number :TERF2504001490E2  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



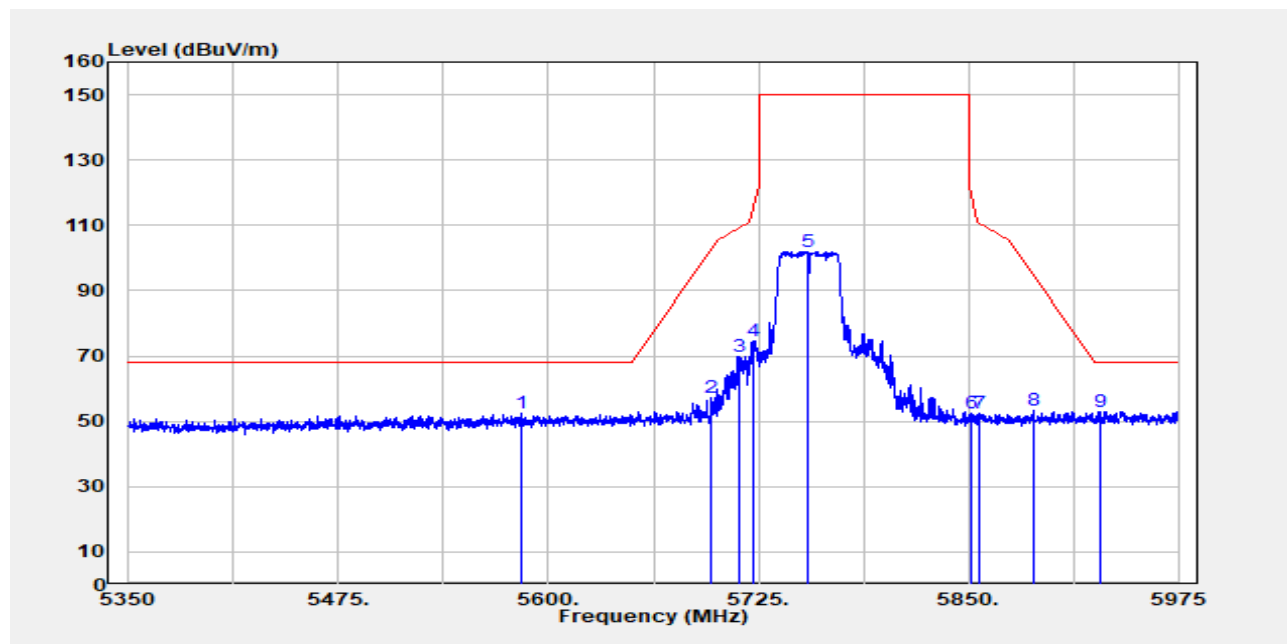
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5539.86	Peak	51.26	1.22	52.48	68.20	-15.72
5650.73	Peak	51.22	1.42	52.64	68.74	-16.10
5713.87	Peak	66.58	1.68	68.26	109.08	-40.82
5721.79	Peak	65.46	1.67	67.13	114.88	-47.75
5755.00	Peak	93.92	1.65	95.57	-	-
5853.50	Peak	49.86	1.76	51.62	114.22	-62.60
5866.84	Peak	51.10	1.83	52.93	107.49	-54.56
5875.38	Peak	51.15	1.86	53.01	104.92	-51.91
5961.04	Peak	51.25	2.38	53.63	68.20	-14.57

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Report Number :TERF2504001490E2  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5583.83	Peak	51.18	1.17	52.35	68.20	-15.85
5696.99	Peak	55.64	1.69	57.33	102.97	-45.64
5713.04	Peak	68.28	1.68	69.96	108.85	-38.89
5721.58	Peak	73.04	1.67	74.71	114.41	-39.70
5755.00	Peak	100.43	1.65	102.08	-	-
5851.21	Peak	50.57	1.75	52.32	119.45	-67.13
5856.00	Peak	50.77	1.77	52.54	110.52	-57.98
5888.51	Peak	51.42	1.92	53.34	95.20	-41.86
5928.11	Peak	50.72	2.20	52.92	68.20	-15.28

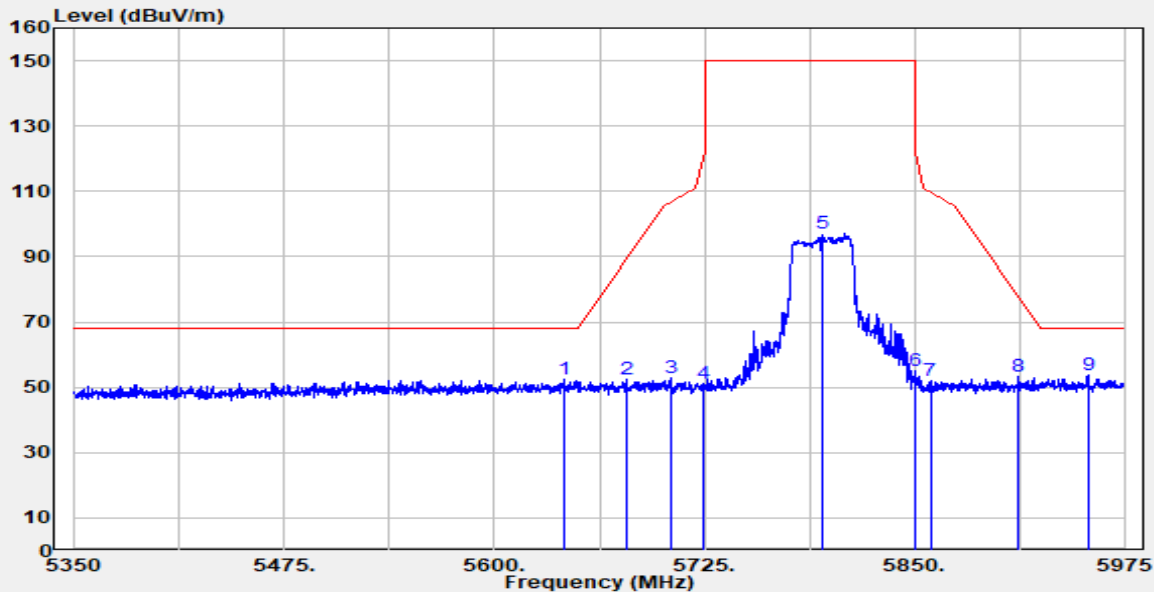
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Report Number :TERF2504001490E2  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



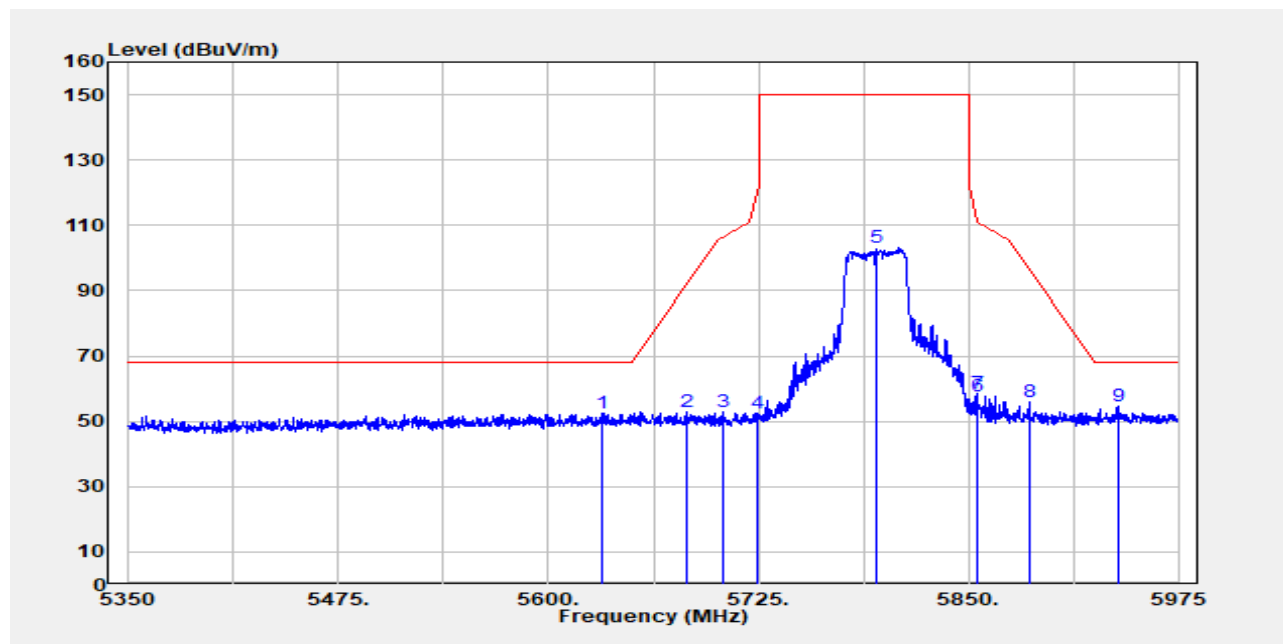
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5641.35	Peak	50.94	1.38	52.32	68.20	-15.88
5678.44	Peak	50.73	1.58	52.31	89.25	-36.94
5705.33	Peak	51.33	1.69	53.02	106.69	-53.67
5723.88	Peak	49.37	1.67	51.04	119.64	-68.60
5795.00	Peak	95.52	1.70	97.22	-	-
5850.79	Peak	53.24	1.75	54.99	120.39	-65.40
5859.55	Peak	50.04	1.79	51.83	109.53	-57.70
5911.85	Peak	51.07	2.07	53.14	77.93	-24.79
5953.33	Peak	51.36	2.37	53.73	68.20	-14.47

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Report Number :TERF2504001490E2  
Operation Mode :802.11n40  
Test Frequency :5795 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Horizontal  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5631.76	Peak	51.06	1.32	52.38	68.20	-15.82
5681.99	Peak	51.48	1.60	53.08	91.87	-38.79
5703.87	Peak	51.32	1.70	53.02	106.28	-53.26
5724.29	Peak	50.84	1.67	52.51	120.59	-68.08
5795.00	Peak	101.52	1.70	103.22	-	-
5854.96	Peak	56.03	1.77	57.80	110.89	-53.09
5855.17	Peak	56.76	1.77	58.53	110.75	-52.22
5886.64	Peak	54.06	1.92	55.98	96.59	-40.61
5938.95	Peak	52.17	2.28	54.45	68.20	-13.75

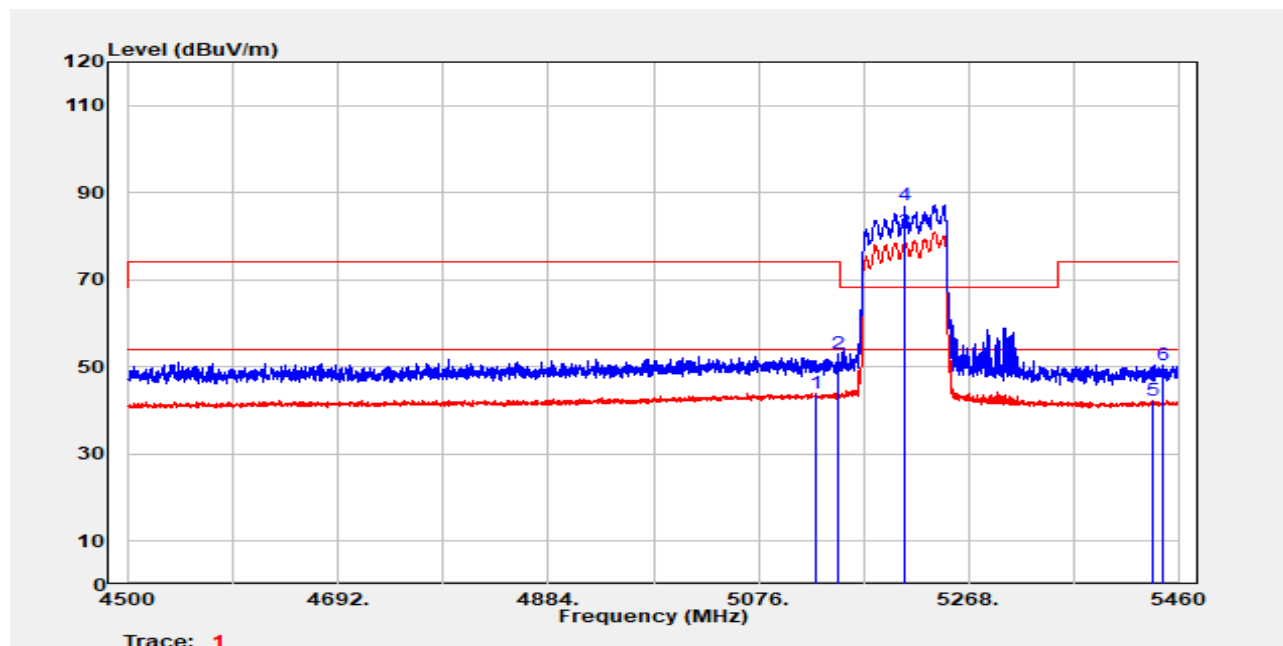
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Report Number :TERF2504001490E2  
Operation Mode :802.11ac80  
Test Frequency :5210 MHz  
Test Mode :Bandedge  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2025-05-23  
Temp./Humi. :22.2°C/55%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5128.48	Average	43.00	0.91	43.91	54.00	-10.09
5149.12	Peak	52.32	0.82	53.14	74.00	-20.86
5210.00	Average	80.27	0.81	81.08	-	-
5210.00	Peak	86.32	0.81	87.13	-	-
5435.99	Average	41.23	1.06	42.29	54.00	-11.71
5446.56	Peak	49.34	1.13	50.47	74.00	-23.53

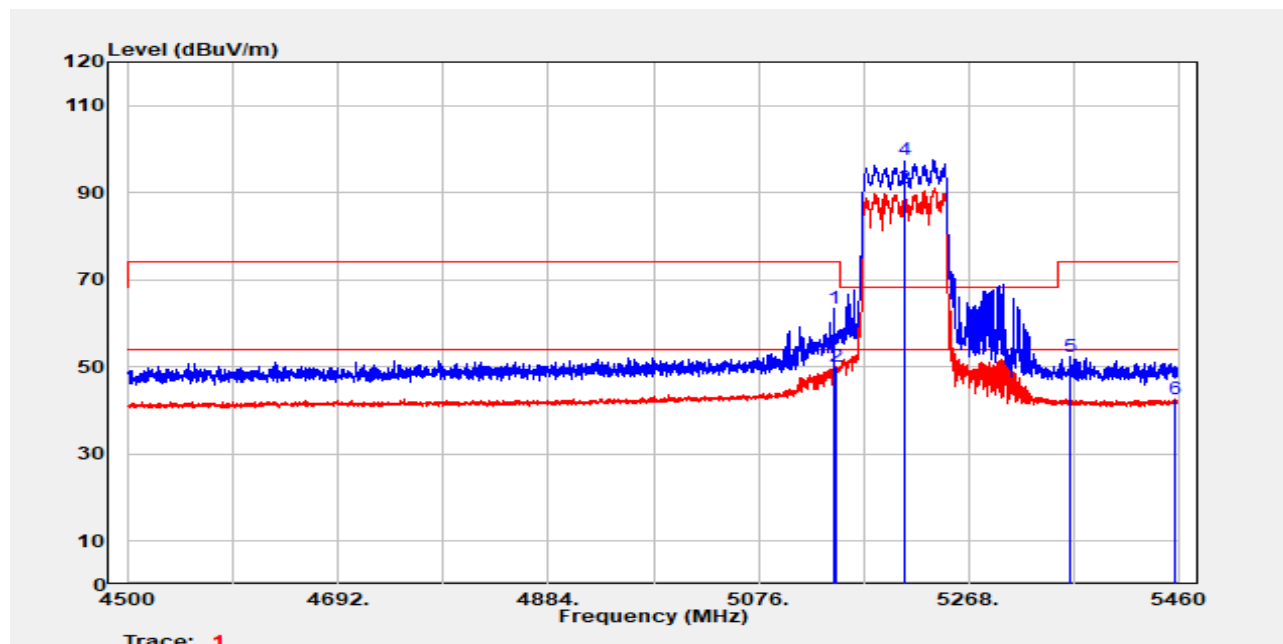
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Report Number :TERF2504001490E2  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



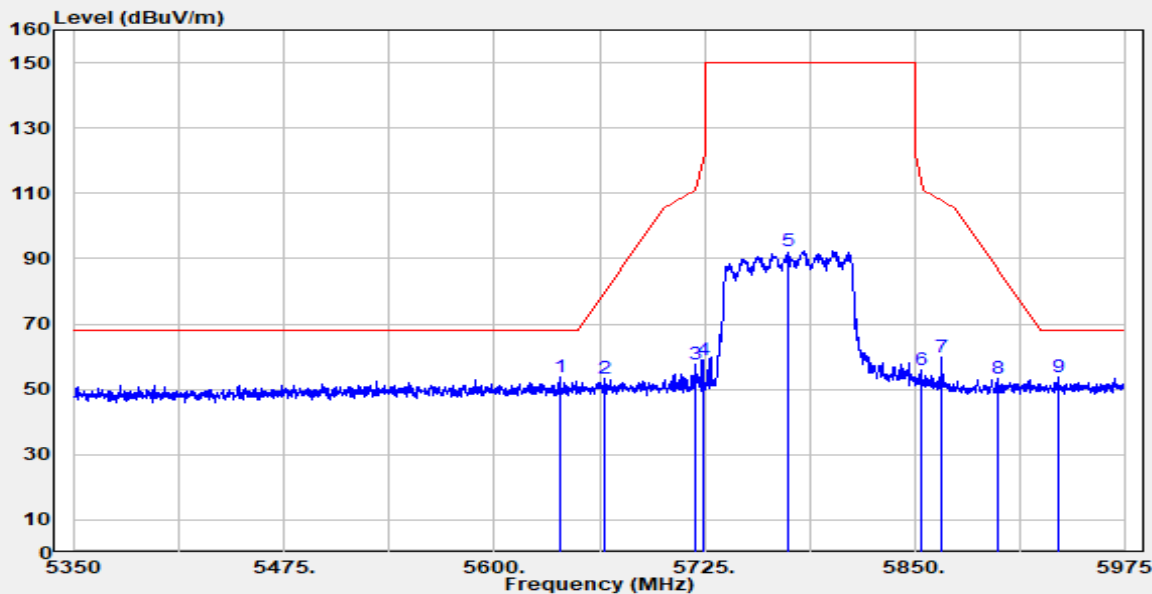
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5144.80	Peak	62.63	0.84	63.47	74.00	-10.53
5174.68	Average	49.34	0.83	50.17	54.00	-3.83
5210.00	Average	90.13	0.81	90.94	-	-
5210.00	Peak	96.61	0.81	97.42	-	-
5361.82	Peak	51.69	0.80	52.49	74.00	-21.51
5457.36	Average	41.48	1.17	42.65	54.00	-11.35

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Report Number :TERF2504001490E2  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5639.26	Peak	52.34	1.36	53.70	68.20	-14.50
5665.73	Peak	51.75	1.50	53.25	79.84	-26.59
5719.29	Peak	56.12	1.68	57.80	110.60	-52.80
5723.88	Peak	57.33	1.67	59.00	119.64	-60.64
5775.00	Peak	90.51	1.68	92.19	-	-
5853.92	Peak	54.24	1.77	56.01	113.27	-57.26
5866.42	Peak	58.04	1.83	59.87	107.60	-47.73
5899.35	Peak	51.40	1.98	53.38	87.18	-33.80
5935.61	Peak	51.44	2.25	53.69	68.20	-14.51

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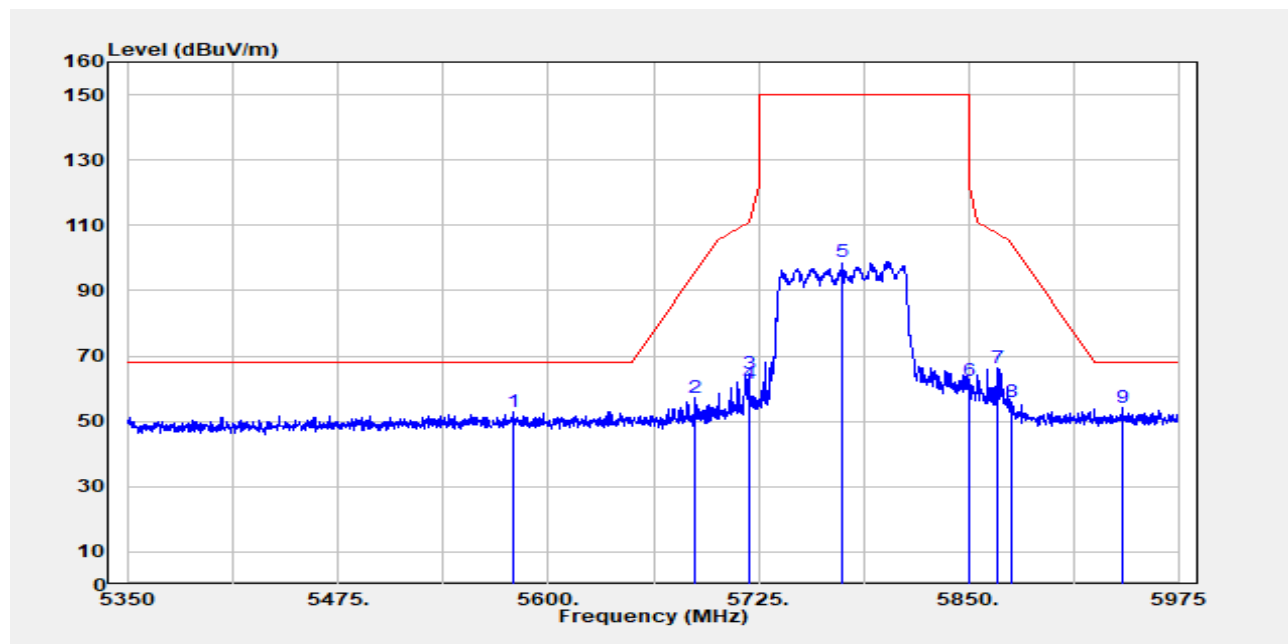
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Report Number :TERF2504001490E2  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Bandedge  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2025-05-23  
 Temp./Humi. :22.2°C/55%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5579.04	Peak	51.79	1.18	52.97	68.20	-15.23
5687.40	Peak	55.47	1.63	57.10	95.88	-38.78
5719.71	Peak	63.09	1.68	64.77	110.72	-45.95
5719.92	Peak	59.82	1.68	61.50	110.78	-49.28
5775.00	Peak	97.24	1.68	98.92	-	-
5850.00	Peak	60.87	1.74	62.61	122.20	-59.59
5867.05	Peak	64.43	1.83	66.26	107.43	-41.17
5876.01	Peak	54.19	1.86	56.05	104.45	-48.40
5941.66	Peak	52.09	2.30	54.39	68.20	-13.81

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## 12 TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c) &

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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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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