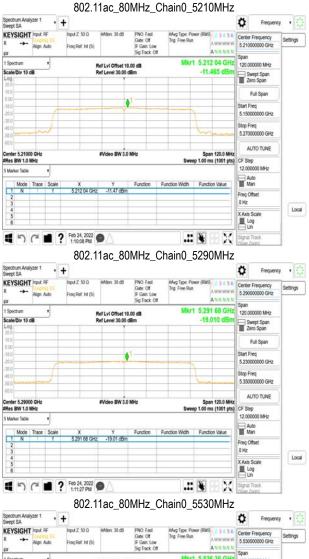
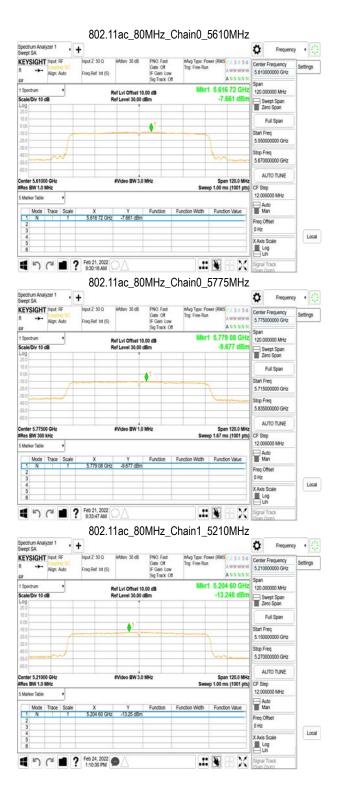
# Report No.: ER/2021/A0117 Page: 58 of 261









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# Report No.: ER/2021/A0117 Page: 59 of 261



#### 802.11ac\_80MHz\_Chain1\_5290MHz



802.11ac 80MHz Chain1 5610MHz Spectrum Analyzer 1 Swept SA . 2' · + Frequency ö #Aug Type: Pow Trig: Free P---KEYSIGHT Input R Input Z: 50 D PNO Fast Gate Off IF Gasn Low Sig Track Off #Atten 30 dE r (RMS) 7 3 4 5 6 Center Frequency 5.61000000 GH Settings + Align Auto AWWWW Freq Ref. Int (S) £10 Span 5.611 32 GHz 120.000000 MHz Ref Lvi Offset 10.00 dB Ref Level 30.00 dBm Scale/Div 10 dB -7.477 df Swept Span Zero Span Full Span Start Freq 5 55000000 GHz Stop Freq 5.6700000 000 GHz AUTO TUNE #Video BW 3.0 MHz nter 5.61000 GH Span 120.0 M Center 5.61000 GH #Res BW 1.0 MHz 1.00 ms (1001 pts) Ci Step 12.000000 MHz Auto Man Function Function Width Function Value Mode Trace Scale 5.611.32 GHz -7.477 dBm Freq Offsel 0 Hz Local X Axis Scale X Feb 21, 2022 9:30:38 AM .:: 💘

■ 「 C ■ ? Feb 24, 2022 ●

#### 802.11ac\_80MHz\_Chain1\_5775MHz Spectrum Analyzer 1 Sweet SA • + Ö Frequency . MS123456 Center Fre KEYSIGHT Input RF at 7:50.0 PNO Fast Gate Off Settings ----Freq Ref. Int (S) 5 77500 Align: Auto ANNNNN Span 120.000000 MHz kr1 5.777 28 GHz 1 Spect Ref Lvi Offset 10.00 dB Scale/Div 10 dB -8.112 d Swept Span Zero Span Full Span ٥ Start Freq 5.715000000 GH Stop Freq 5.835000000 GH AUTO TUNE Center 5.77500 G IRes BW 300 kHz Video RW 1.0 MH Span 120.0 MHz Sweep 1.67 ms (1001 pts) CF Step 12.000000 MHz Marker Table Auto Man Mode Trace Scale Function Function Width Function Value 5.777 28 GHz -8.112 dBm Freq Offset 0 Hz Local X Axis Scale Feb 21, 2022 9:34:09 AM .: N 🗄 🗙 Signal Trac

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台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw



# 11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

# 11.1 Standard Applicable

#### 11.1.1 5150~5850 MHz

Applicable	Operation	EIRP		Field Strength
to	Freq. (MHz)	Freq. (MHz)	Limits (dBm/MHz)	@ 3m
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	f ≤ 5150		
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350	f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	f ≤ 5470 f ≥ 5725		
		at 75 MHz or more above or be- low the band edge	PK:-27	PK: 68.2
15.407(b)(4)(i)	5725~5850	increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
RSS-247 §6.2.4.2		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

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

#### 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:

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

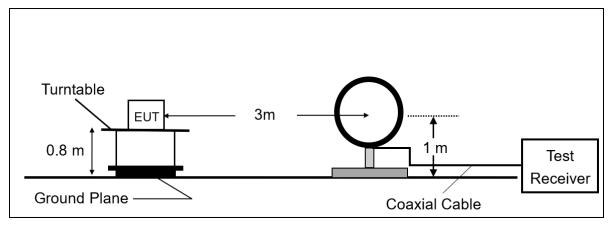
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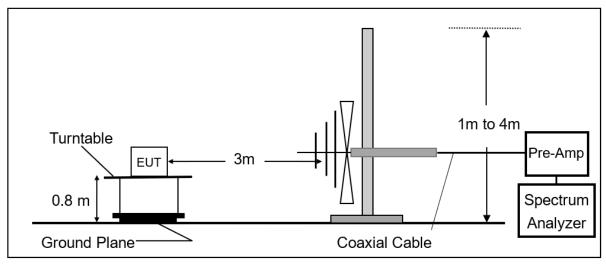


# 11.2 Test Setup

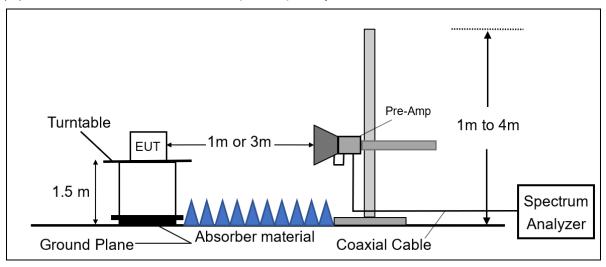
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 for Maximum Emission Measurements at frequency above 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.</li>
- **9.** When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- **10.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- **11.** And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- **12.** Repeat above procedures until all 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 StrengthRA = Reading AmplitudeAF = Antenna Factor CL = Cable Attenuation Factor (Cable Loss) AG = Amplifier Gain

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

Actual FS( $dB\mu V/m$ ) = SPA. Reading level( $dB\mu V$ ) + Factor(dB) Factor(dB) = Antenna Factor( $dB\mu V/m$ ) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

# 11.5 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.

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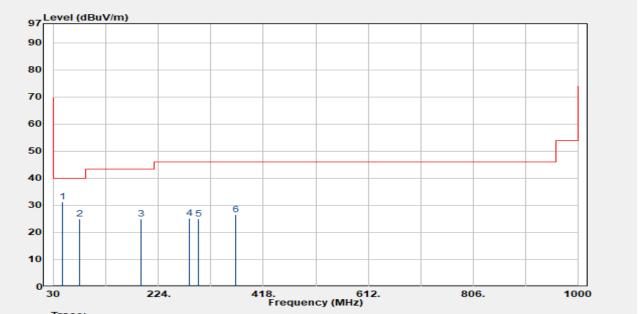


# 11.6 Radiated Spurious Emission Measurement Result

# 11.6.1 Spurious Emission

# 11.6.1.1 FM4500F connect FM-SHARK-DUAL antenna

Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5220 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



Trace:						
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
46.167	Peak	39.21	-8.01	31.20	40.00	-8.80
78.500	Peak	36.71	-11.68	25.03	40.00	-14.97
191.667	Peak	34.29	-9.42	24.87	43.50	-18.63
280.583	Peak	31.53	-6.23	25.30	46.00	-20.70
298.367	Peak	30.89	-5.90	24.99	46.00	-21.01
366.267	Peak	31.00	-4.47	26.53	46.00	-19.47

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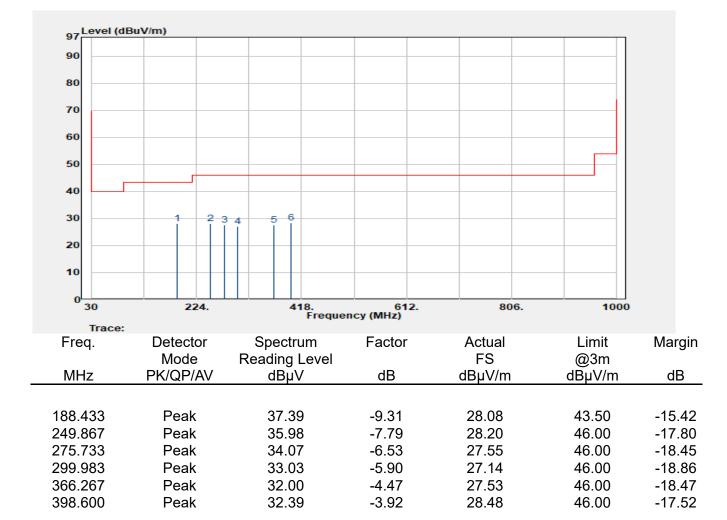
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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11n20
Test Frequency	:5220 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-24
Temp./Humi.	:19.3/58
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

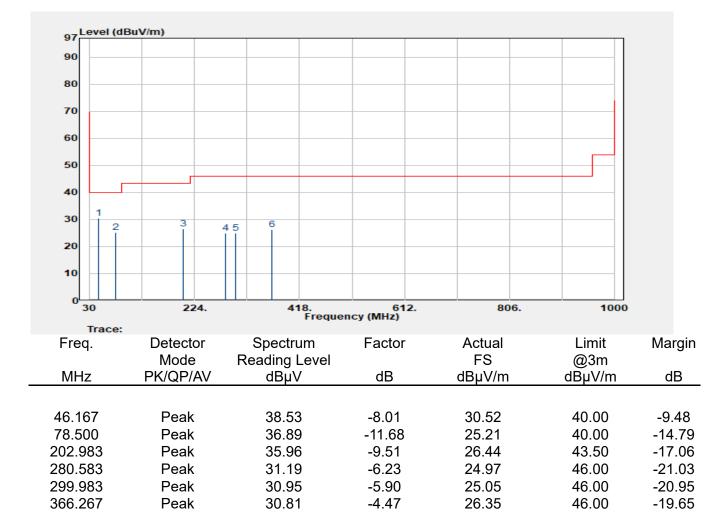


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5300 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-24
Temp./Humi.	:19.3/58
Antenna Pol.	:Vertical
Engineer	:Jack Liu

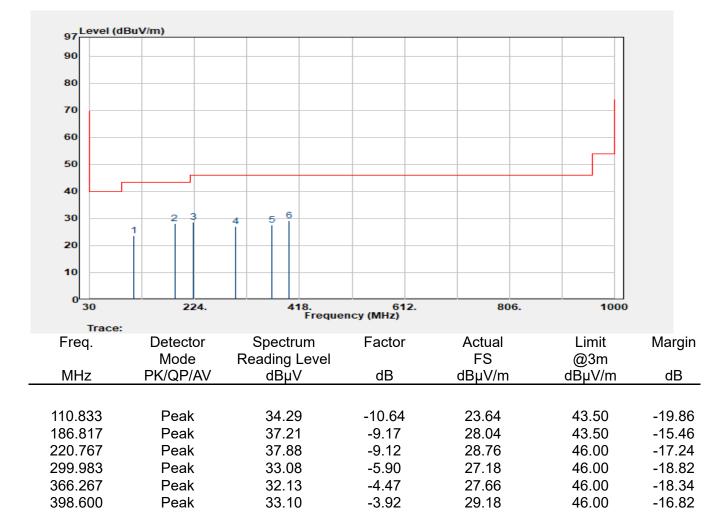


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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11n20
Test Frequency	:5300 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-24
Temp./Humi.	:19.3/58
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

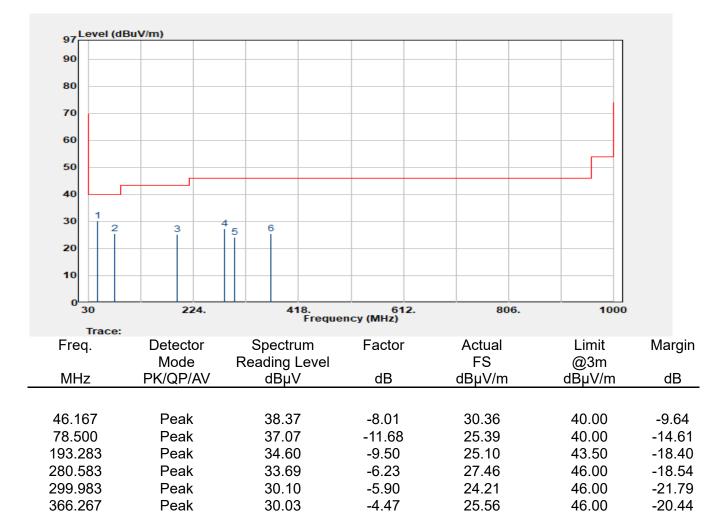


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5580 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-24
Temp./Humi.	:19.3/58
Antenna Pol.	:Vertical
Engineer	:Jack Liu

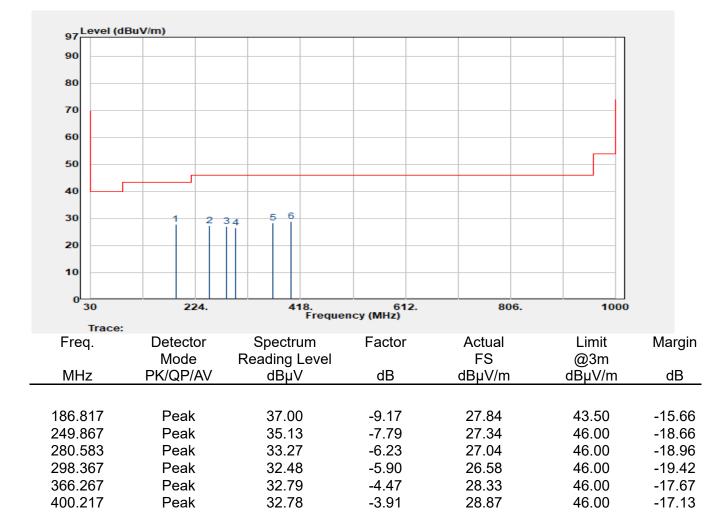


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5580 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-24
Temp./Humi.	:19.3/58
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

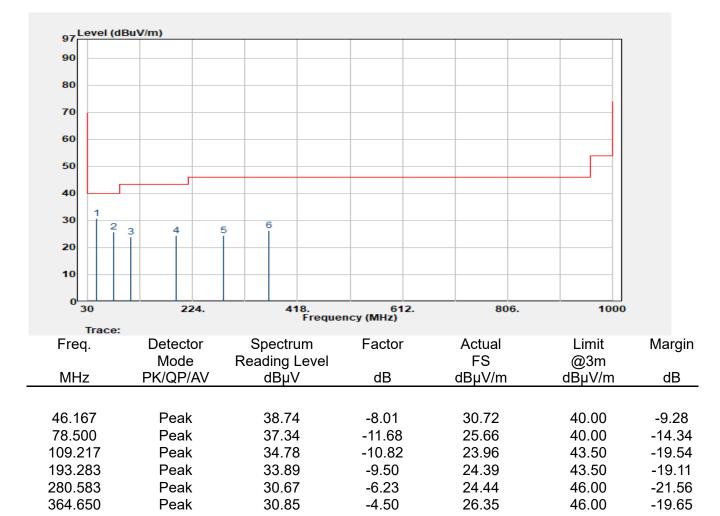


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5785 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-24
Temp./Humi.	:19.3/58
Antenna Pol.	:Vertical
Engineer	:Jack Liu

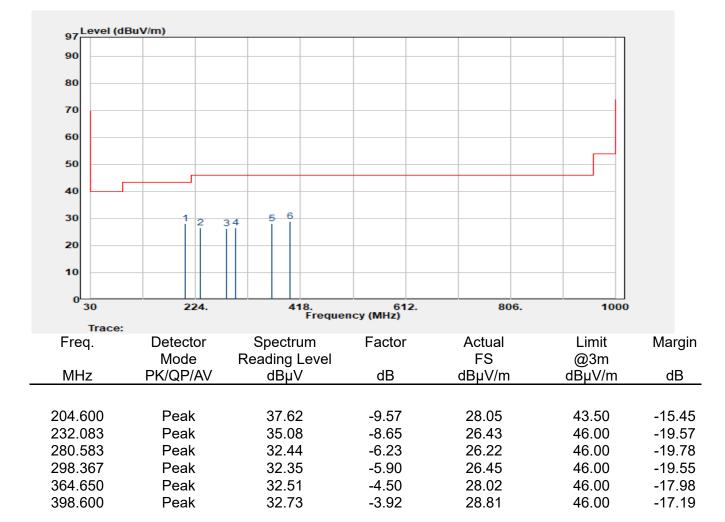


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5785 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-24
Temp./Humi.	:19.3/58
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

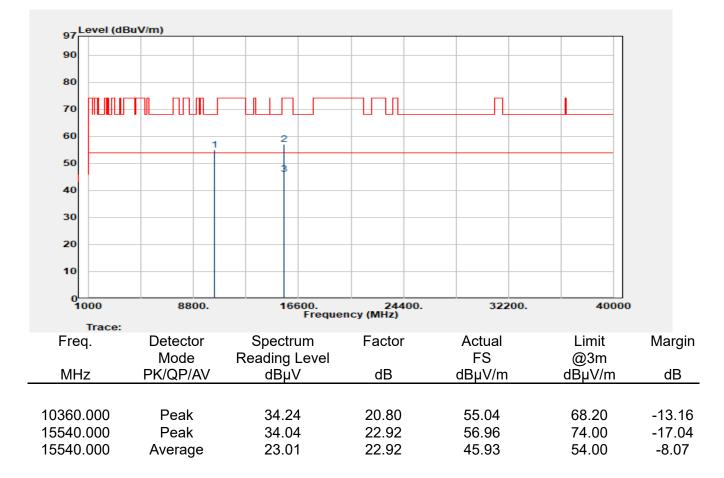


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5180 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

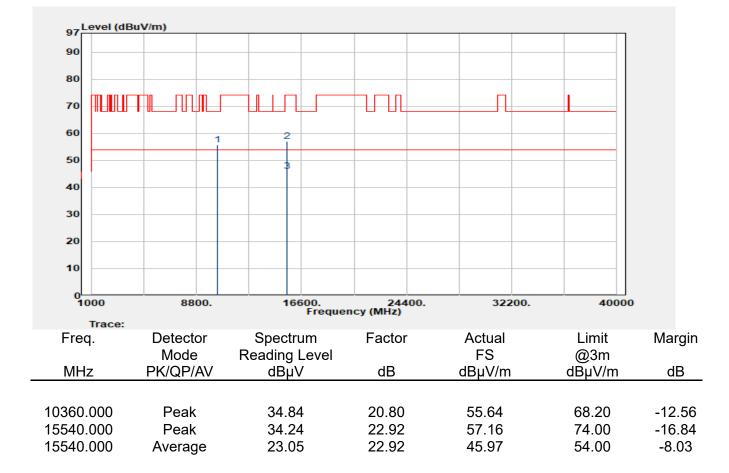


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5180 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

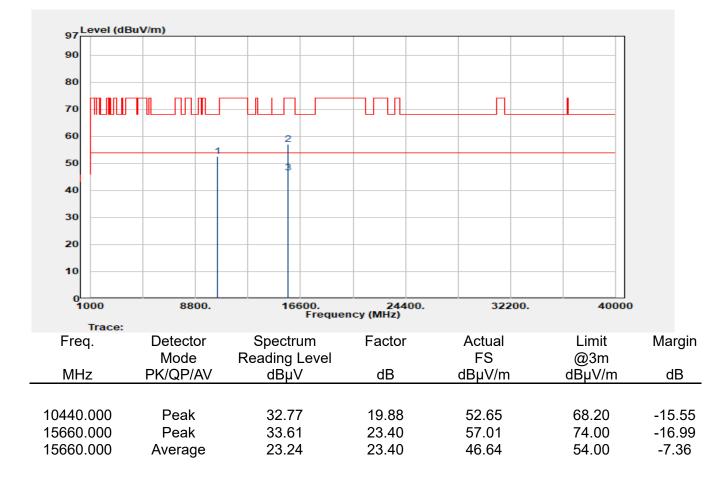


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5220 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



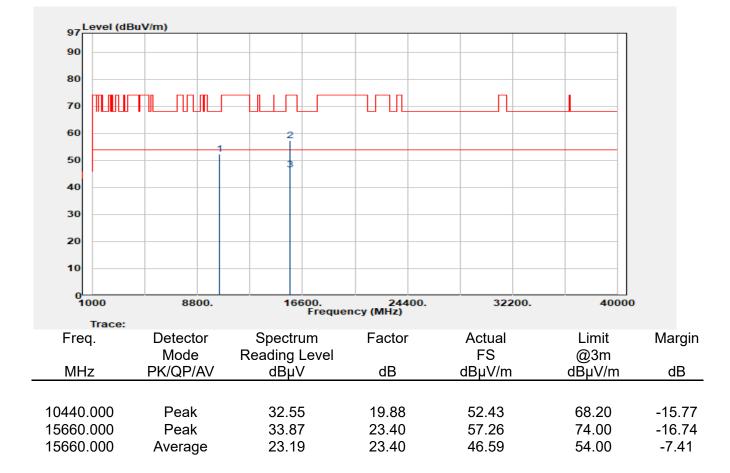
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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11n20
Test Frequency	:5220 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



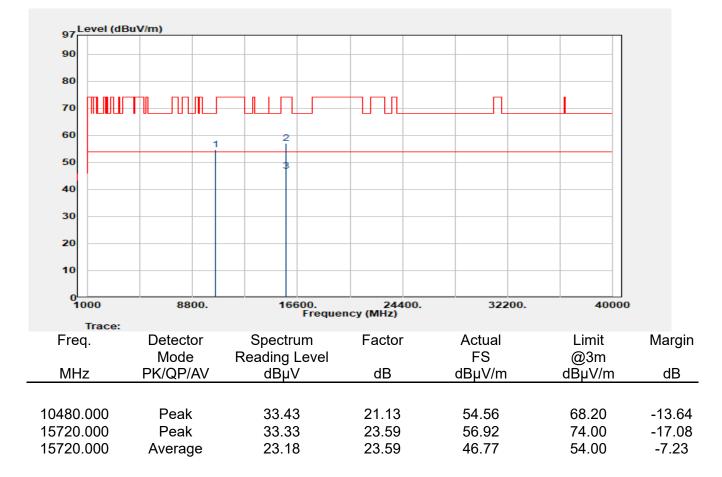
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5240 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



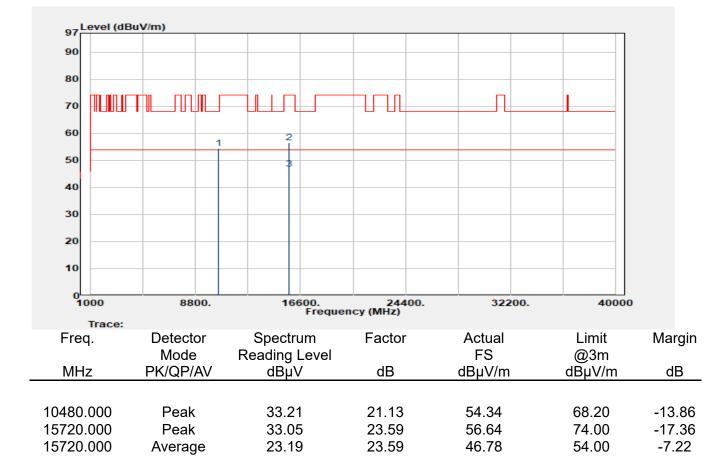
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5240 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

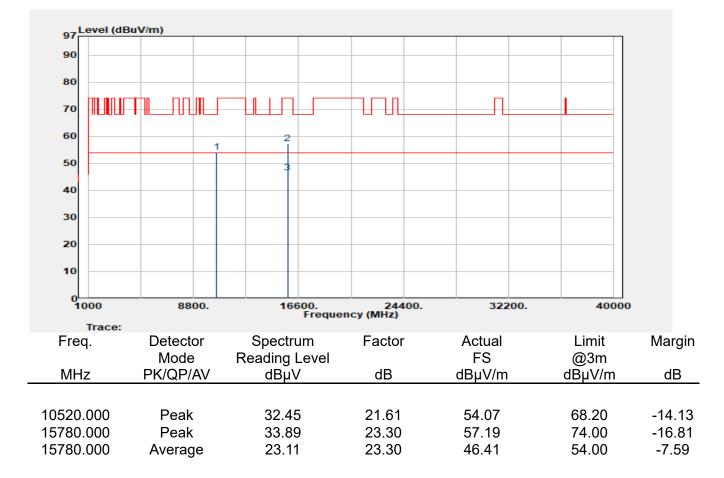


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5260 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

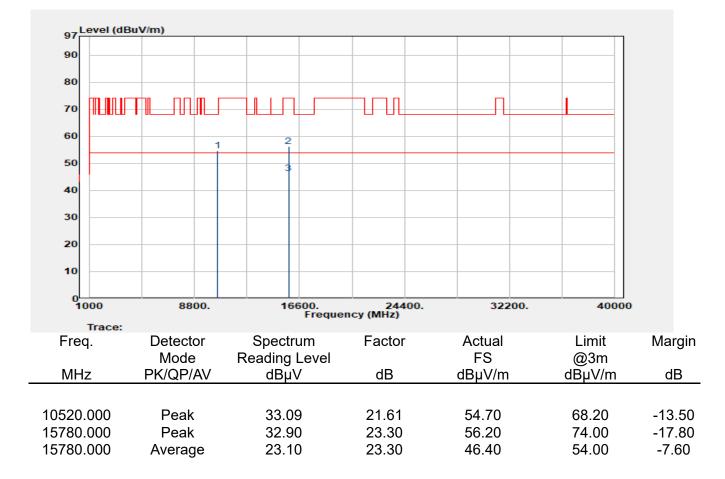


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5260 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

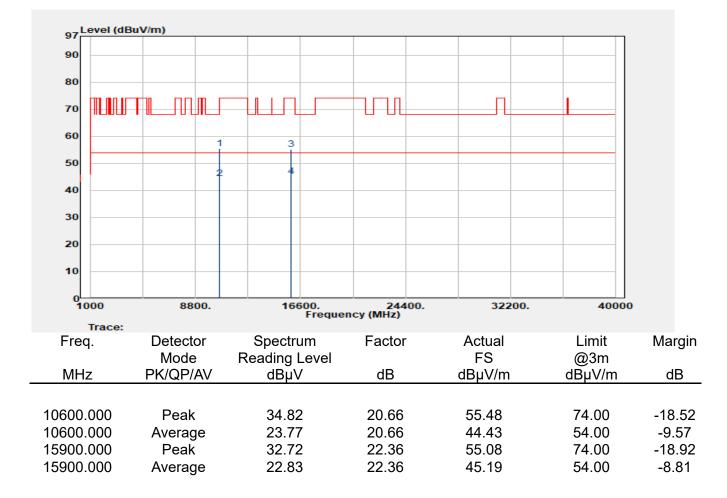


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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11n20
Test Frequency	:5300 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

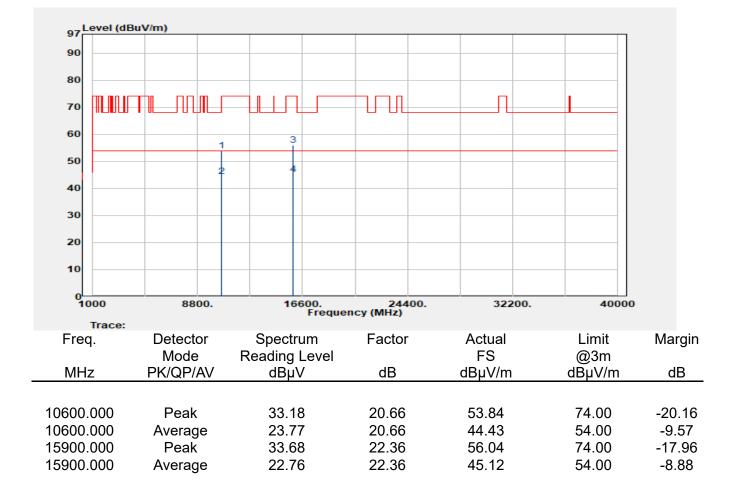


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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11n20
Test Frequency	:5300 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

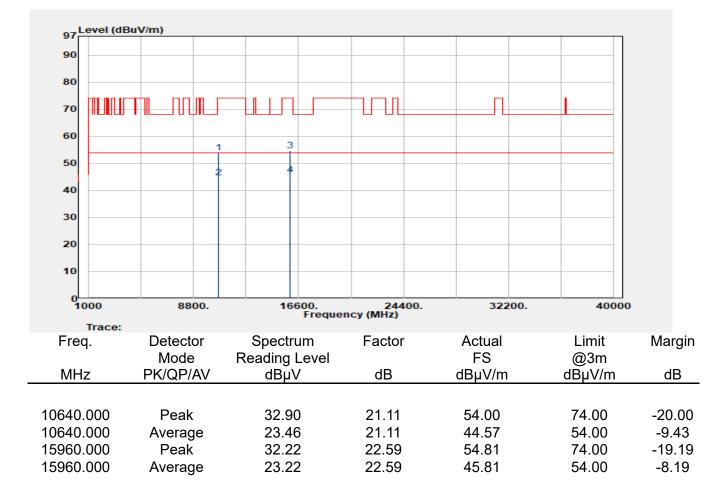


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5320 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

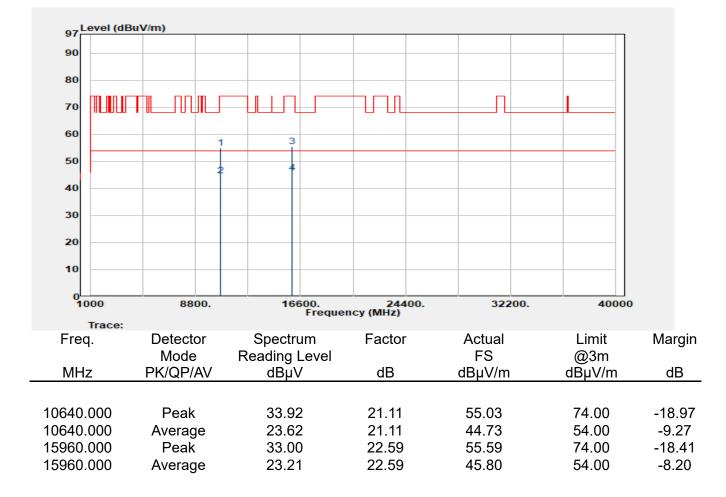


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5320 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

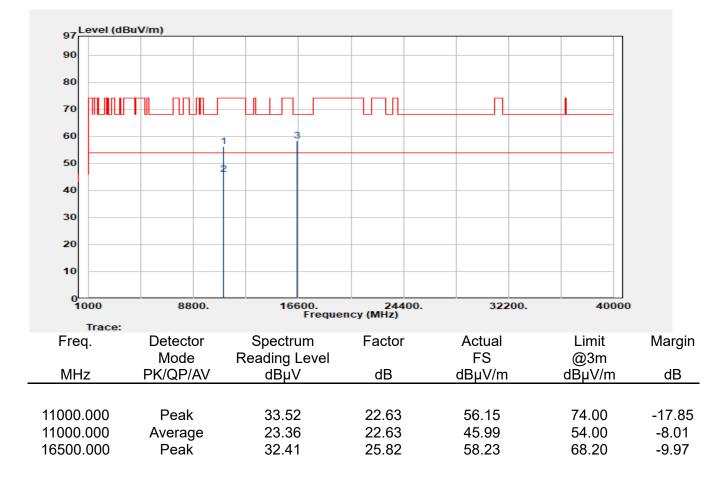


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5500 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

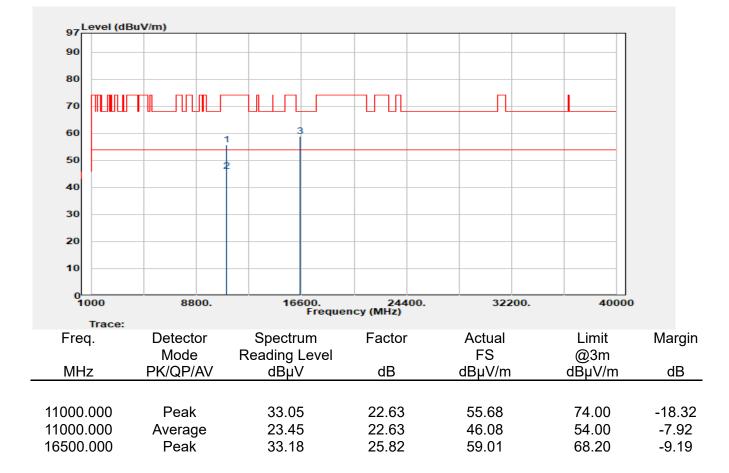


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5500 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

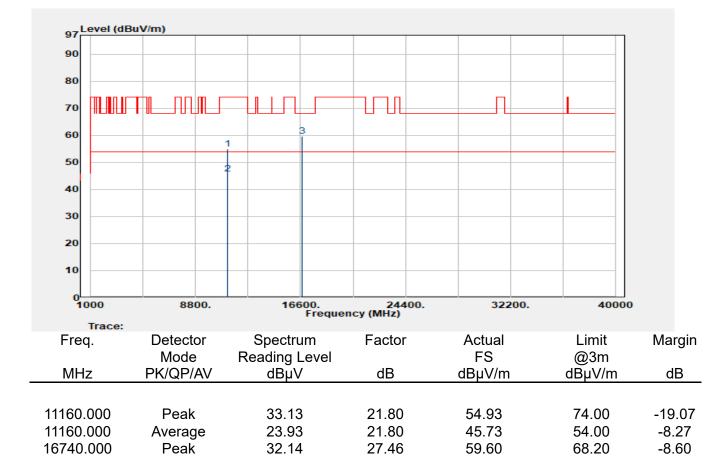


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5580 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



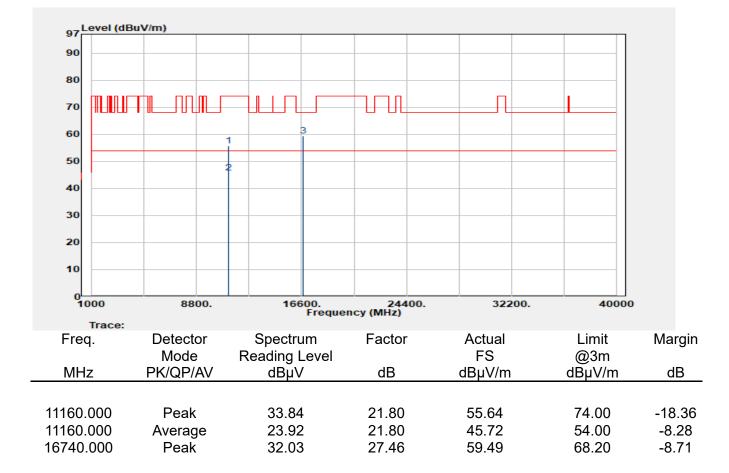
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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11n20
Test Frequency	:5580 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



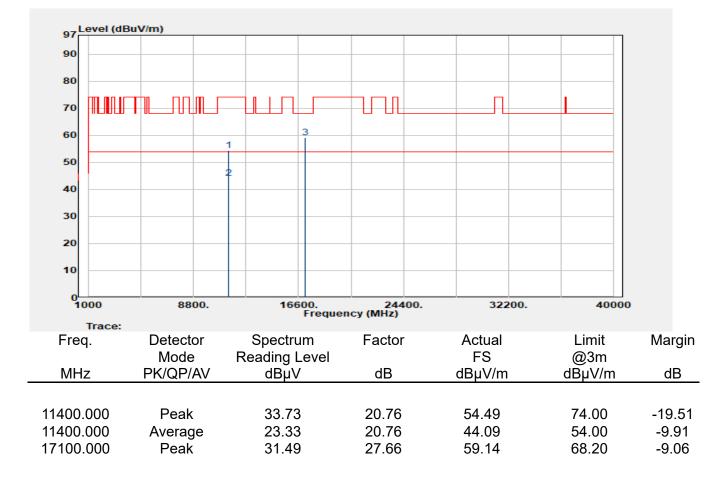
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5700 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5700 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



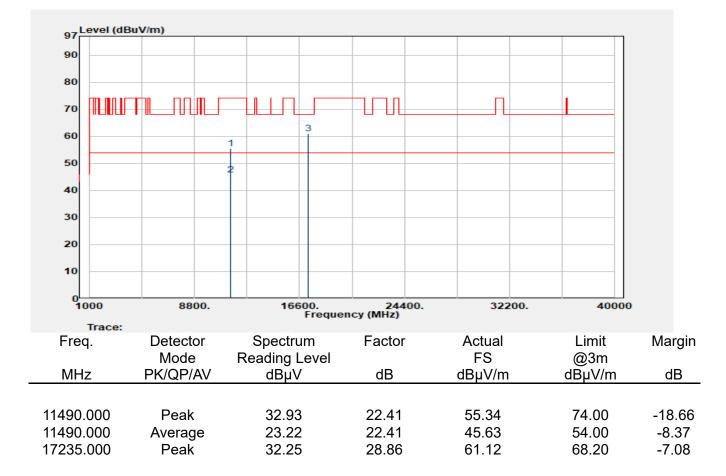
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5745 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

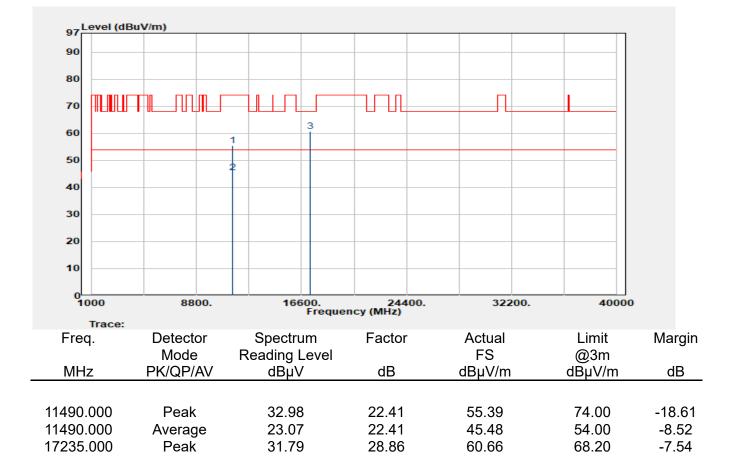


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5745 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

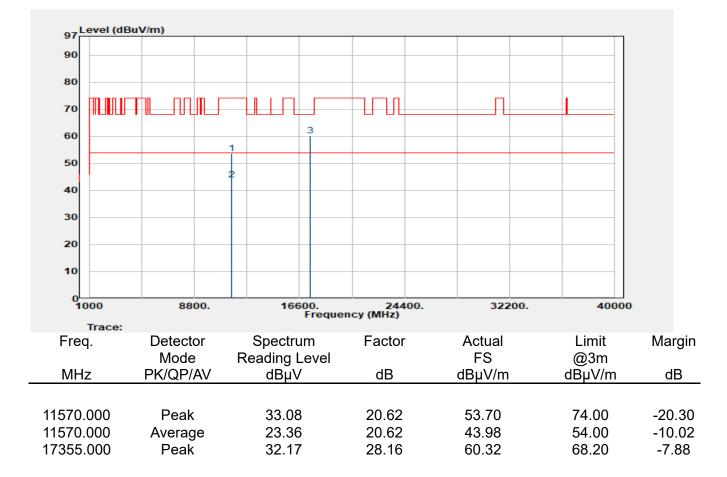


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5785 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

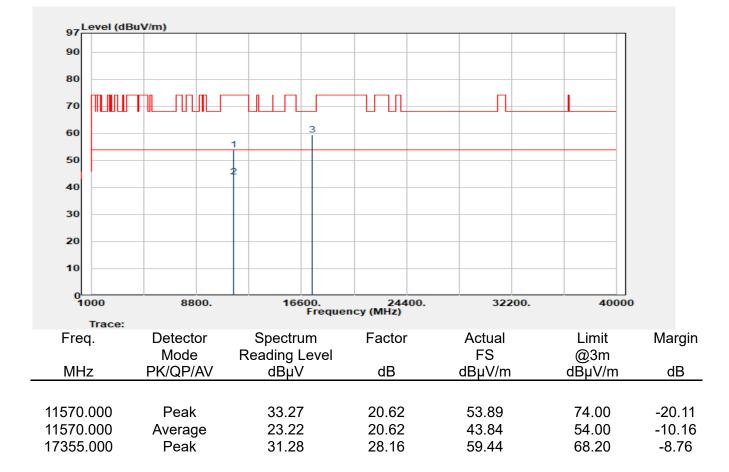


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5785 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

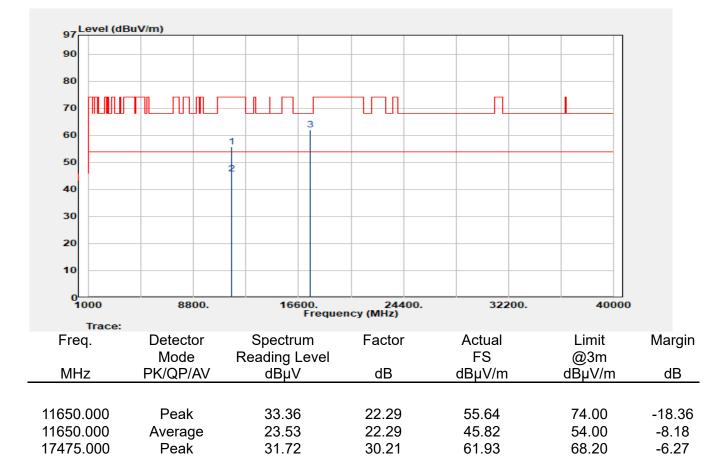


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5825 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



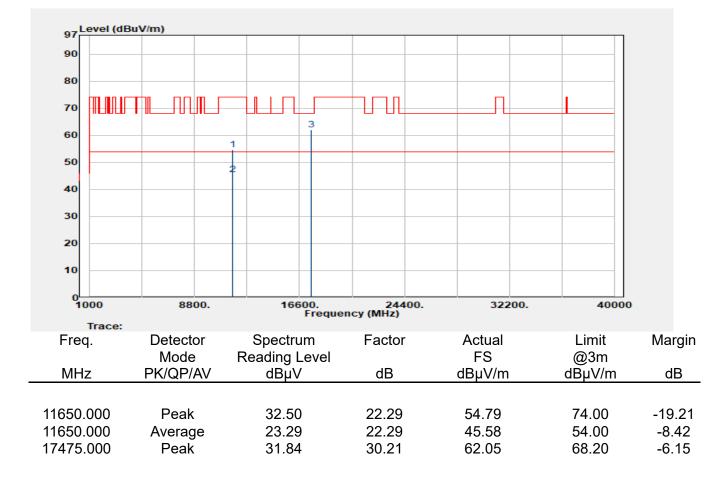
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n20
Test Frequency	:5825 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



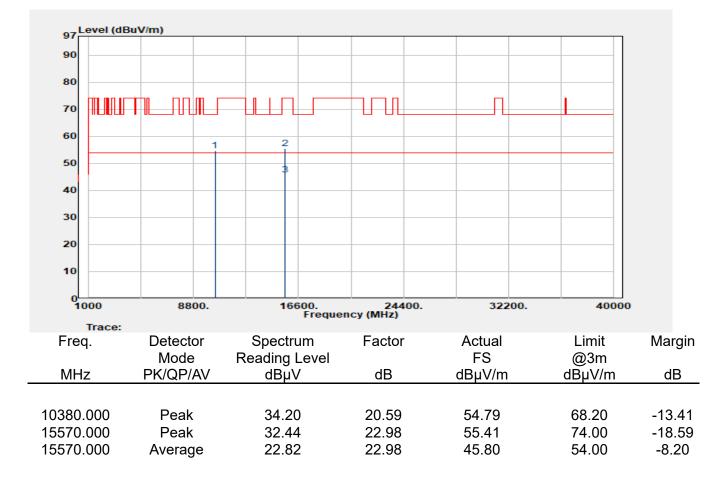
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5190 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

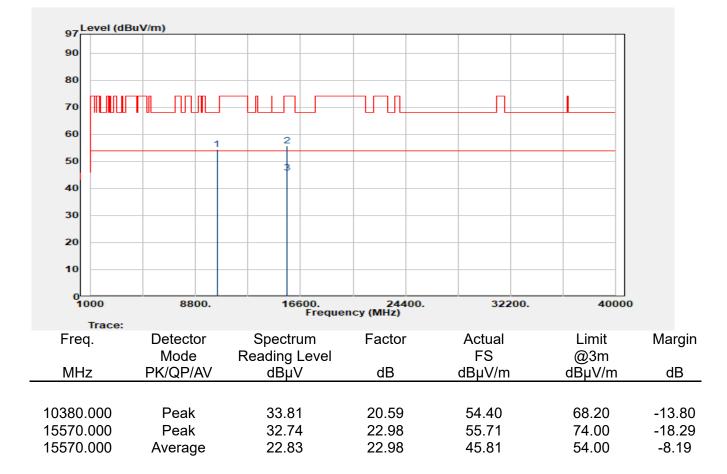


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5190 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

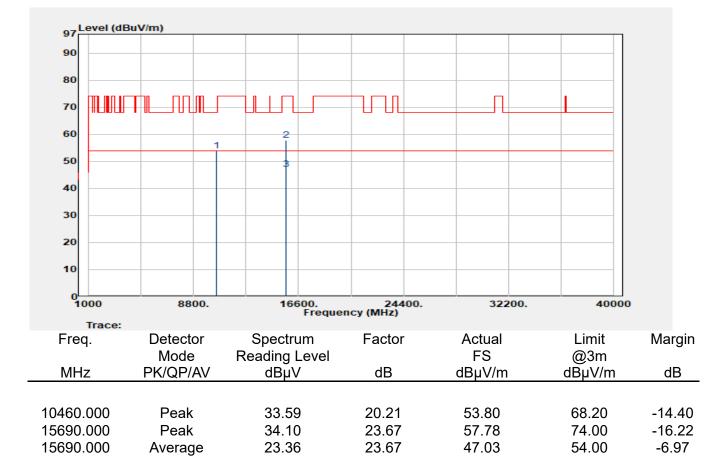


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5230 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



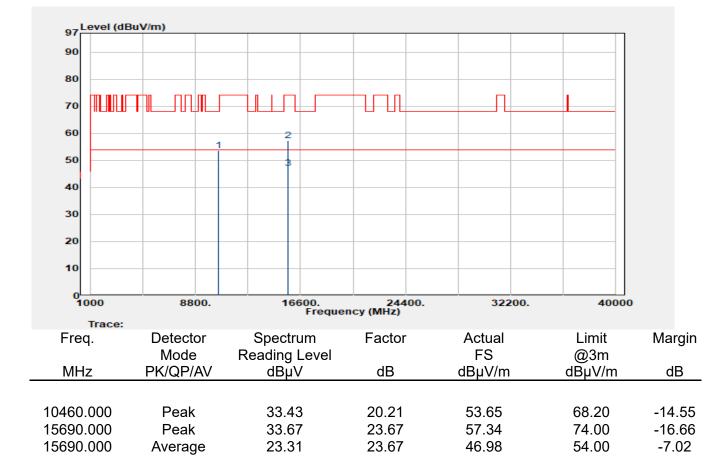
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5230 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

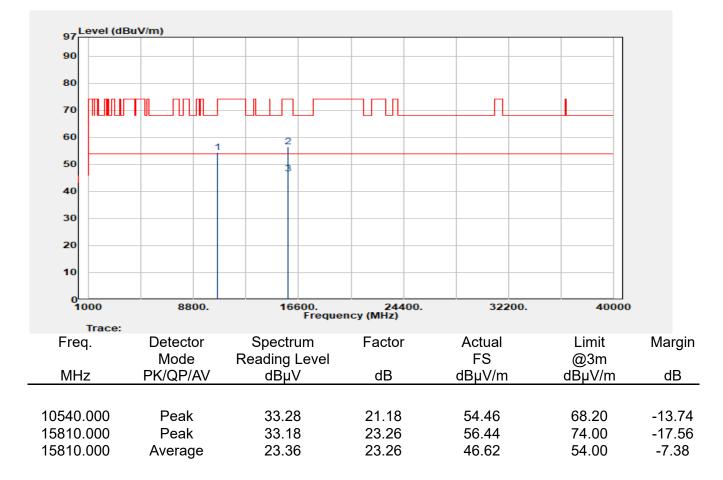


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5270 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



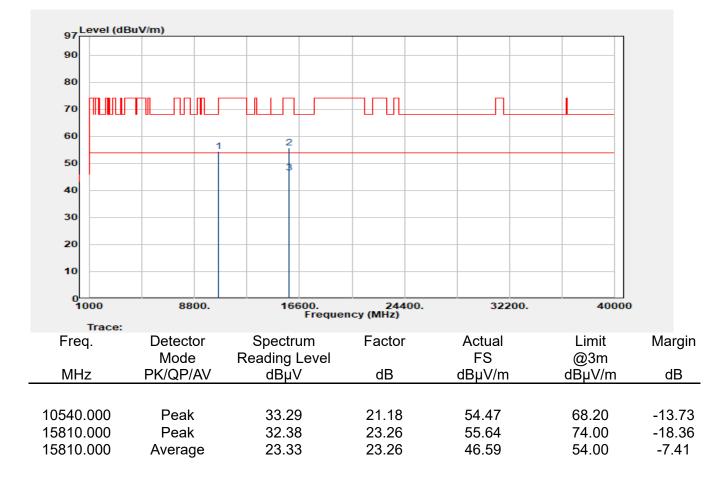
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5270 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

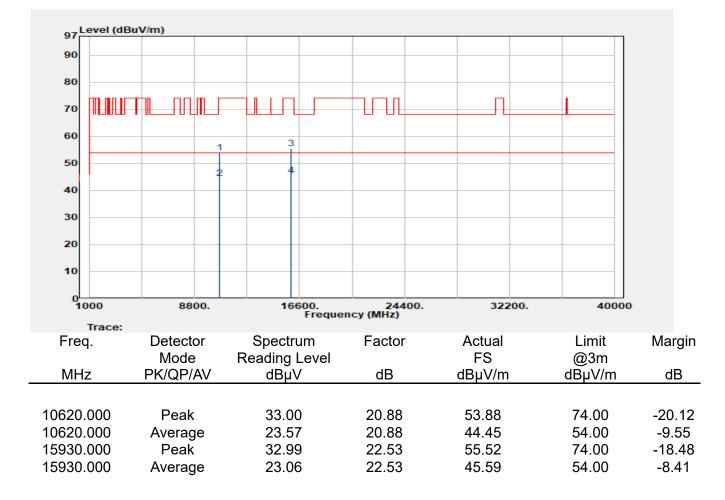


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5310 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

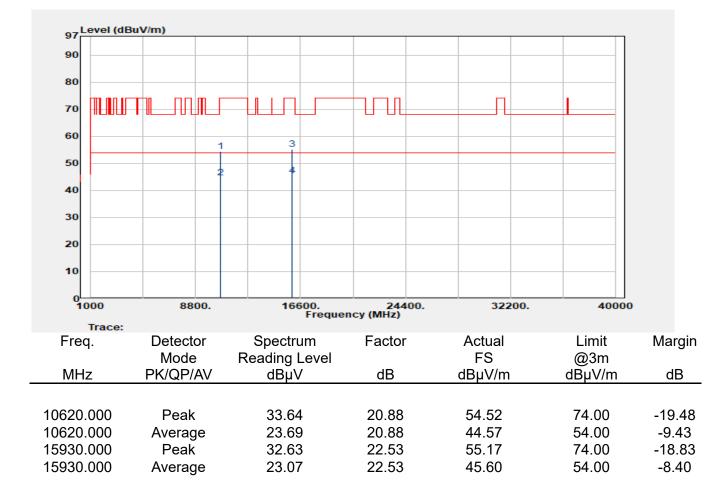


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5310 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

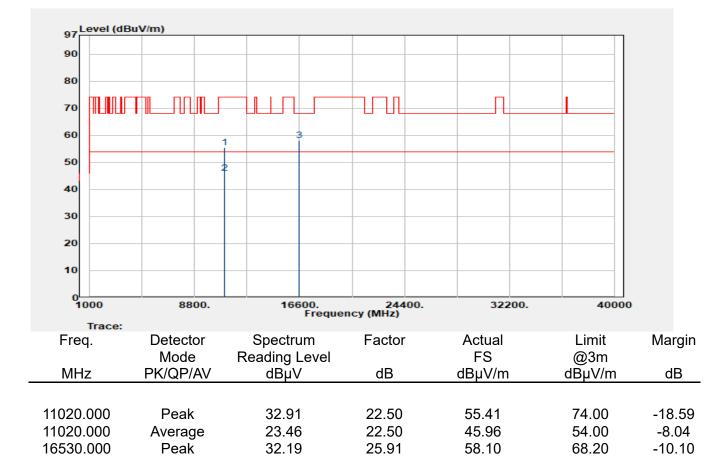


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5510 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



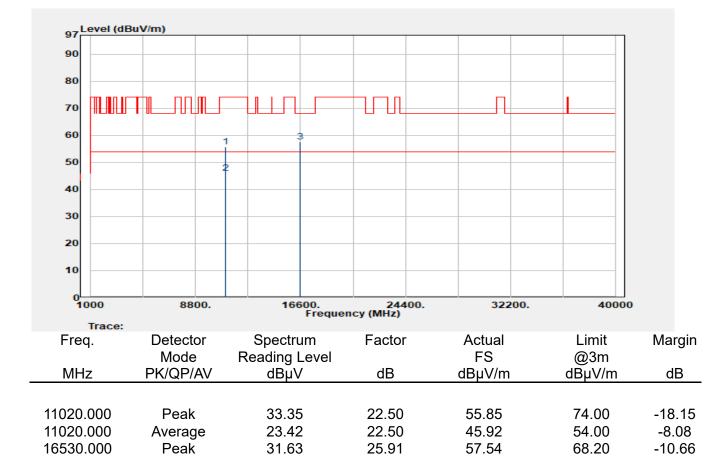
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5510 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5550 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



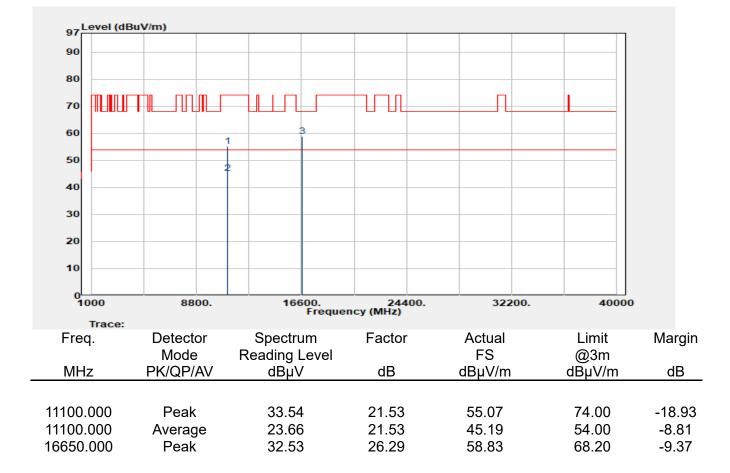
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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11n40
Test Frequency	:5550 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

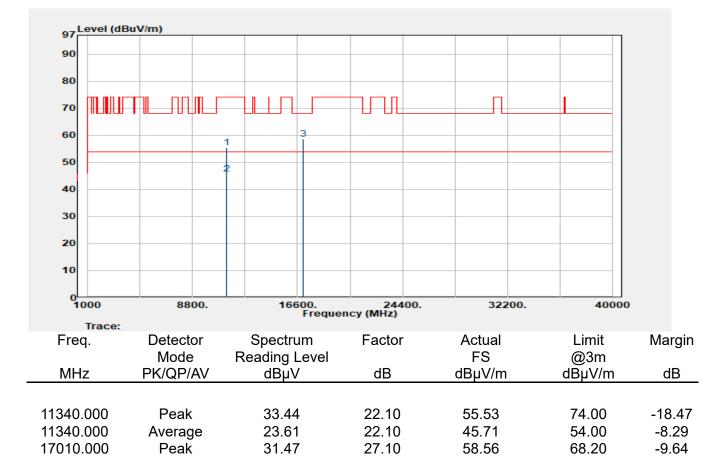


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5670 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

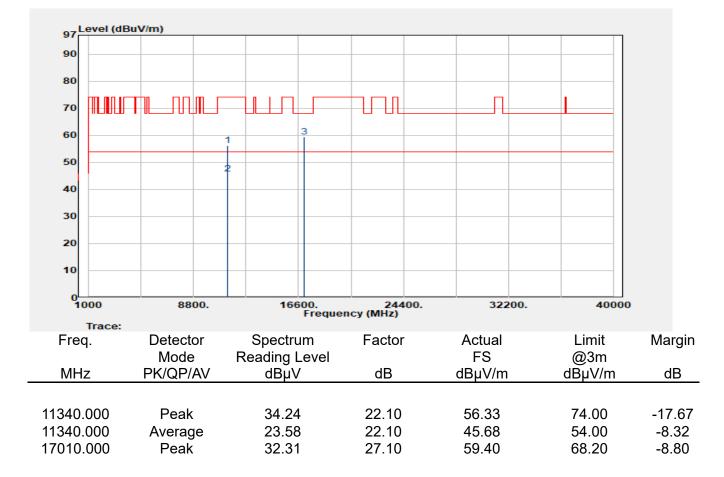


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5670 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



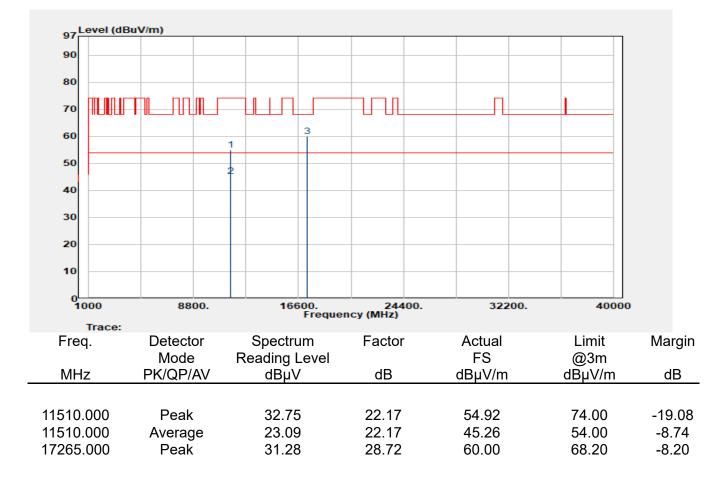
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5755 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



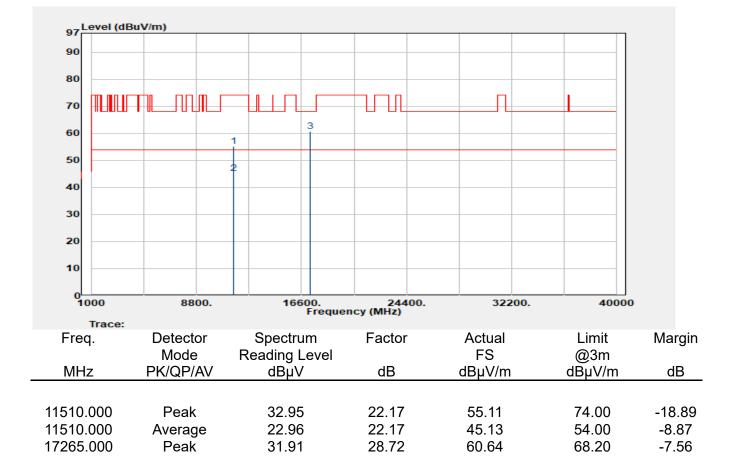
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5755 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



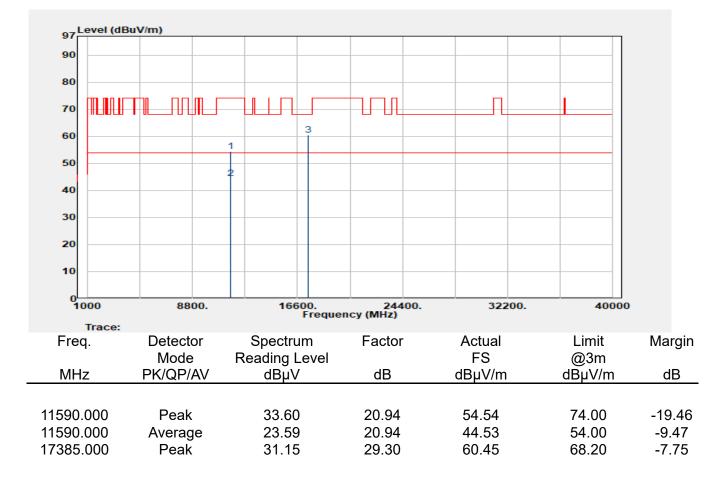
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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5795 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

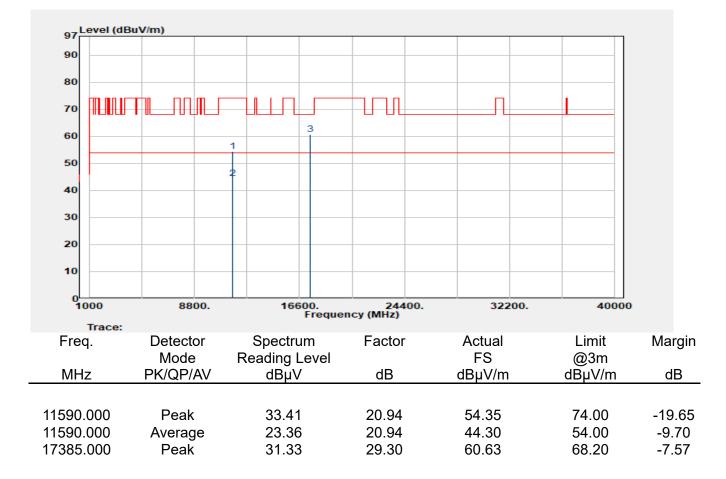


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Report Number	:ER/2021/A0117
Operation Mode	:802.11n40
Test Frequency	:5795 MHz
Test Mode	:Tx CH High
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

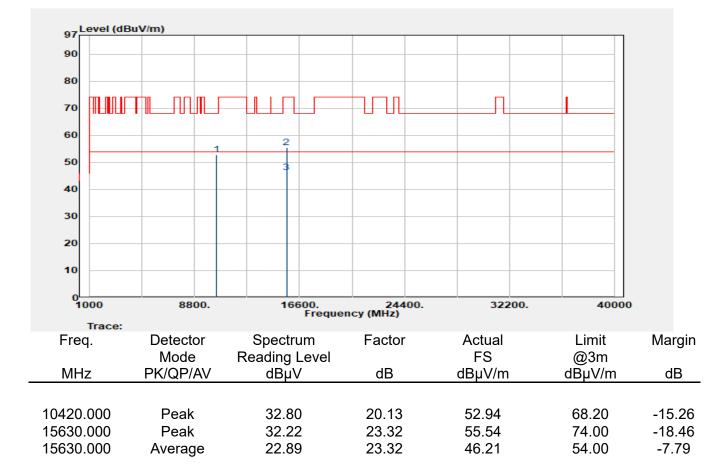


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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5210 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



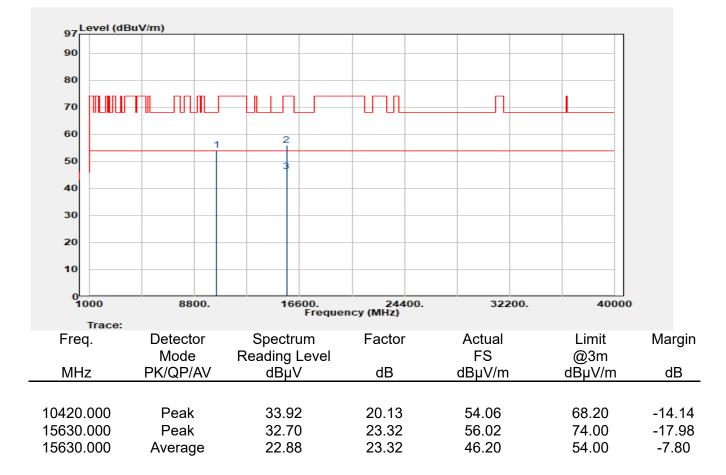
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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5210 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

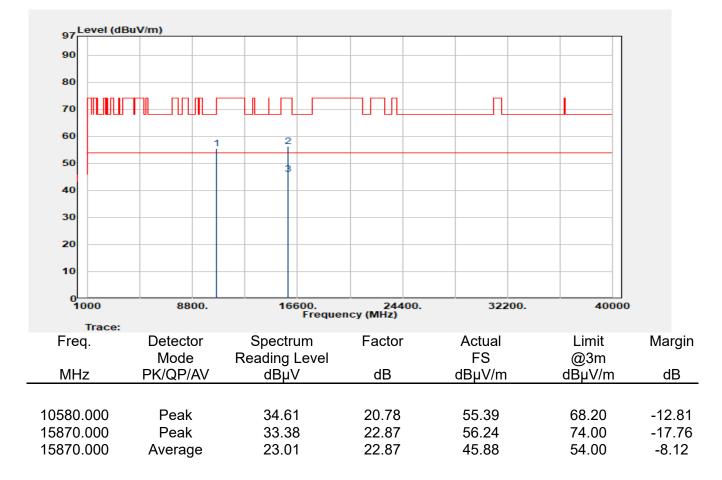


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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5290 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



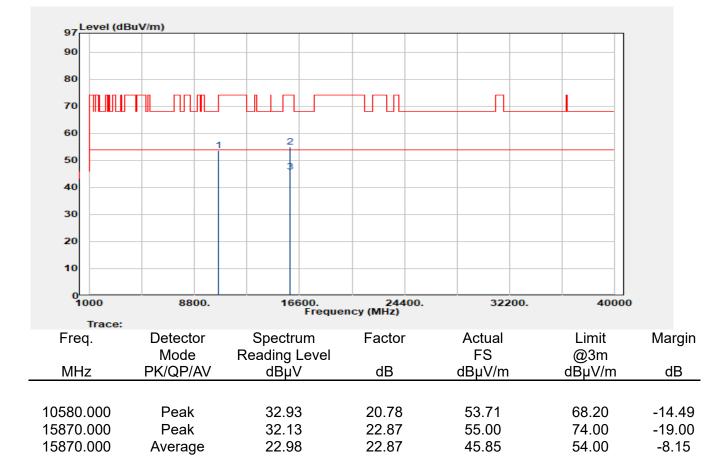
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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5290 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

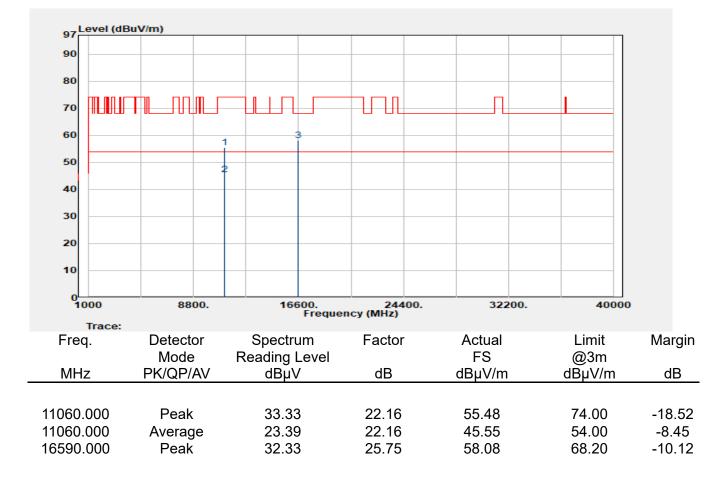


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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5530 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



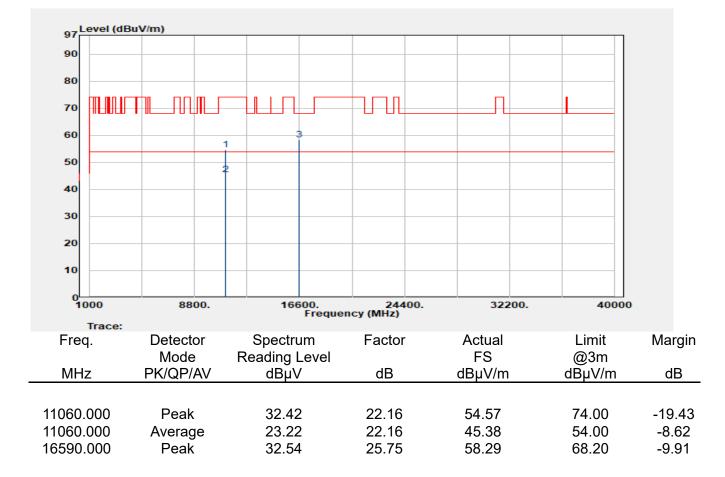
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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11ac80
Test Frequency	:5530 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



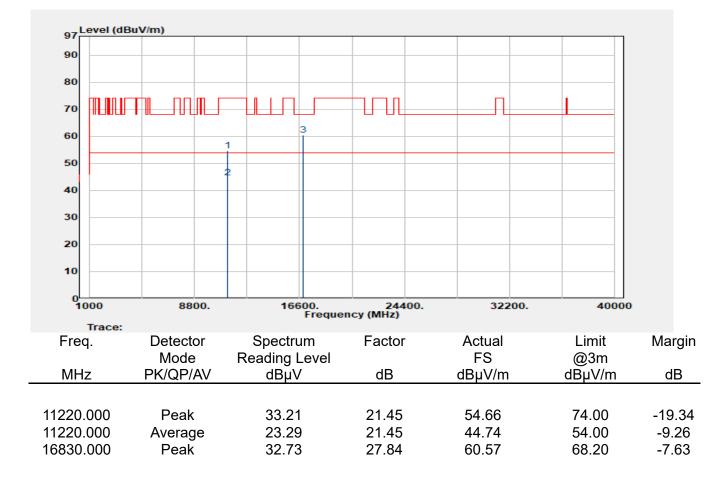
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Report Number	:ER/2021/A0117
<b>Operation Mode</b>	:802.11ac80
Test Frequency	:5610 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu

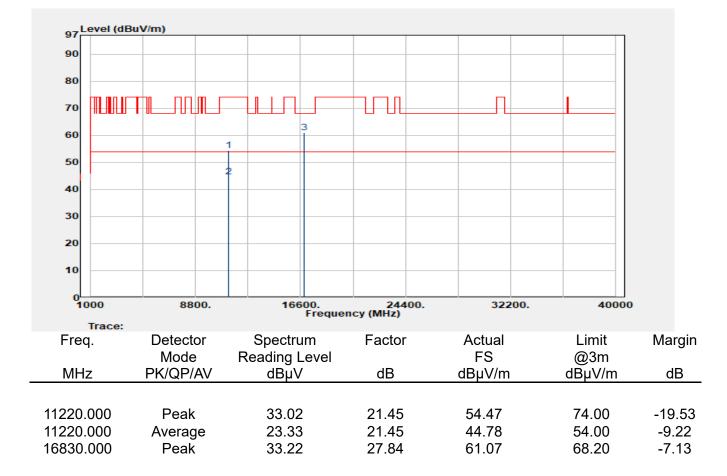


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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5610 MHz
Test Mode	:Tx CH Mid
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu

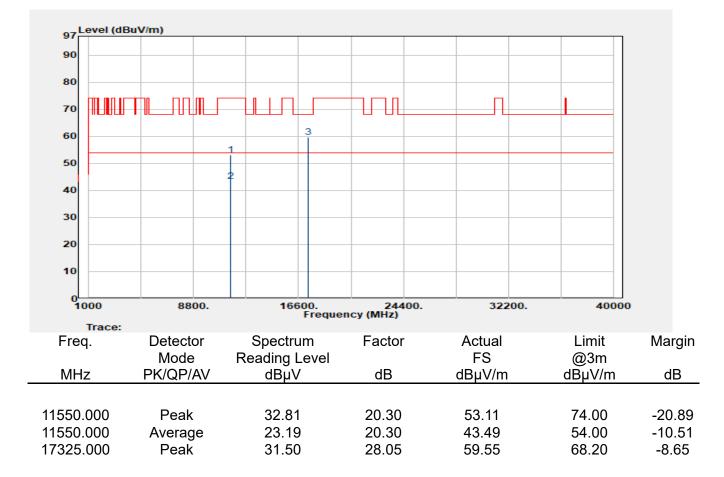


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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5775 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Vertical
Engineer	:Jack Liu



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Report Number	:ER/2021/A0117
Operation Mode	:802.11ac80
Test Frequency	:5775 MHz
Test Mode	:Tx CH Low
EUT Pol	:E2 Plane

Test Site	:SAC 3
Test Date	:2022-02-22
Temp./Humi.	:19.8/64
Antenna Pol.	:Horizontal
Engineer	:Jack Liu



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46.167

78.500

191.667

280.583

364.650

458.417

Peak

Peak

Peak

Peak

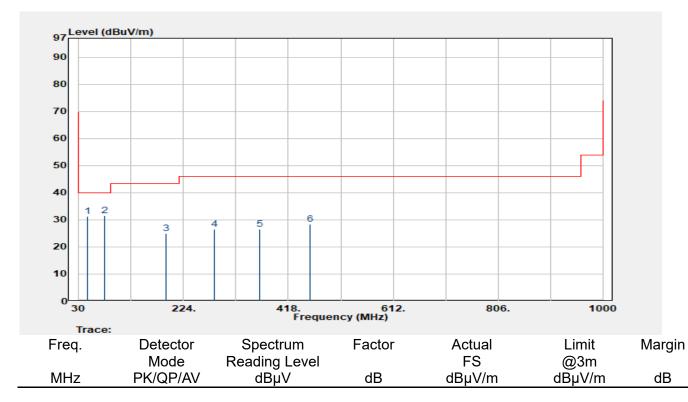
Peak

Peak

## Report No.: ER/2021/A0117 Page: 124 of 261

## 11.6.1.2 FM4500F connect FM-TUBE antenna

Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5220 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



-8.01

-11.68

-9.42

-6.23

-4.50

-2.35

31.18

31.51

24.97

26.50

26.48

28.49

40.00

40.00

43.50

46.00

46.00

46.00

-8.82

-8.49

-18.53

-19.50

-19.52

-17.51

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39.19

43.19

34.40

32.73

30.98

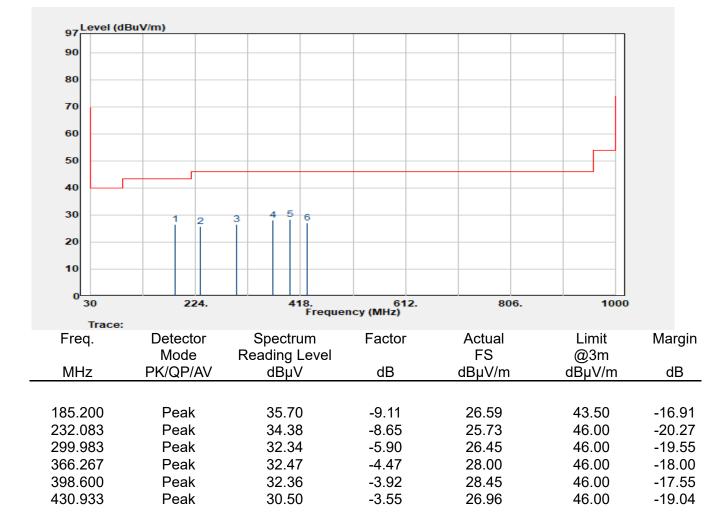
30.84

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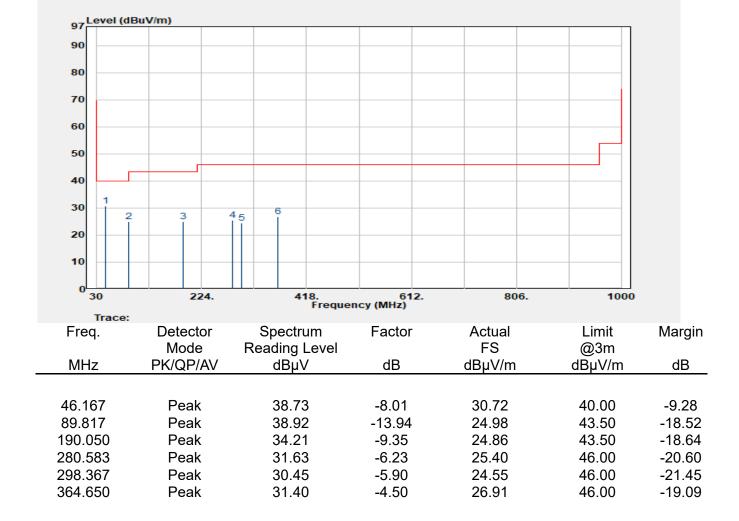
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5220 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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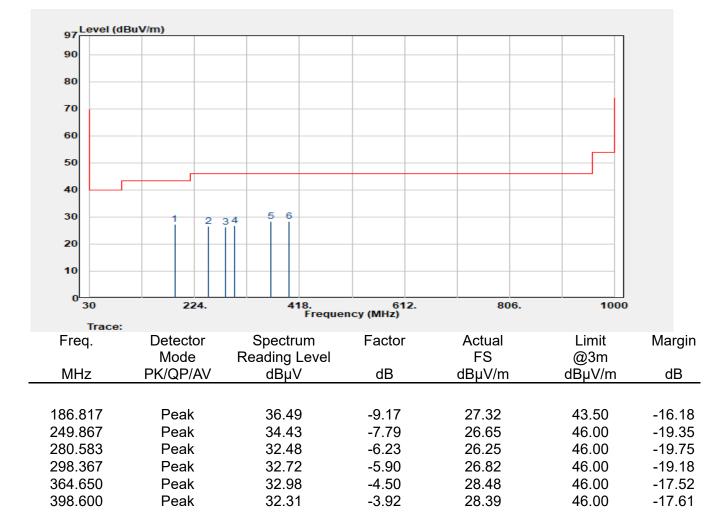
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5300 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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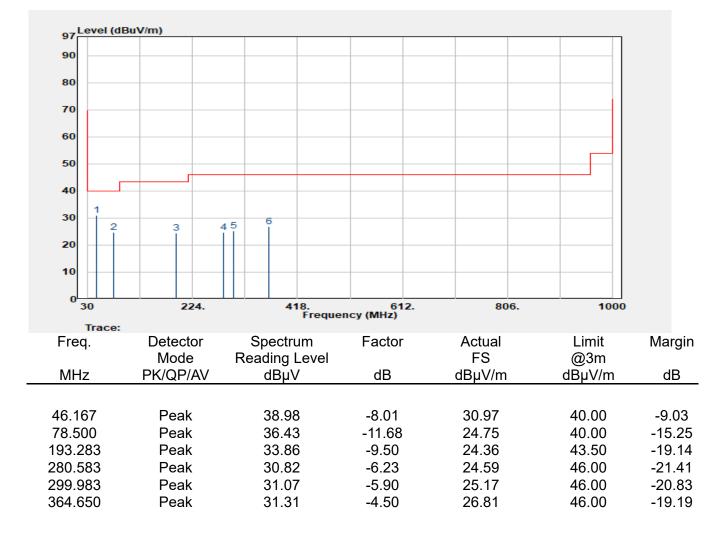
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5300 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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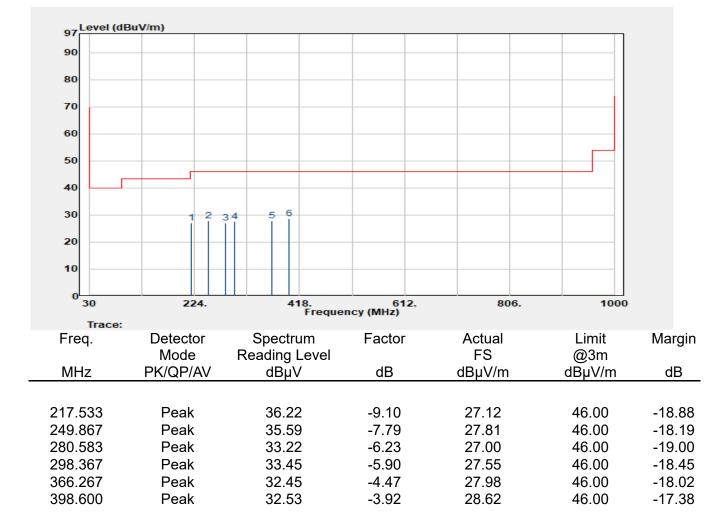
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5580 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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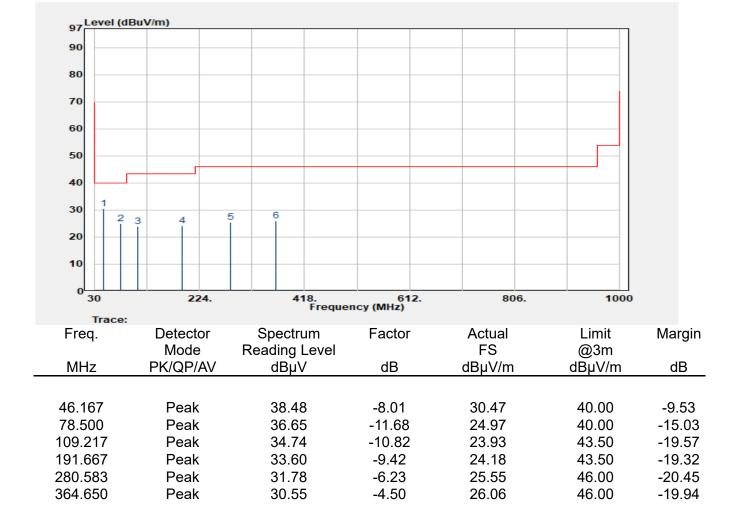
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5580 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5785 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



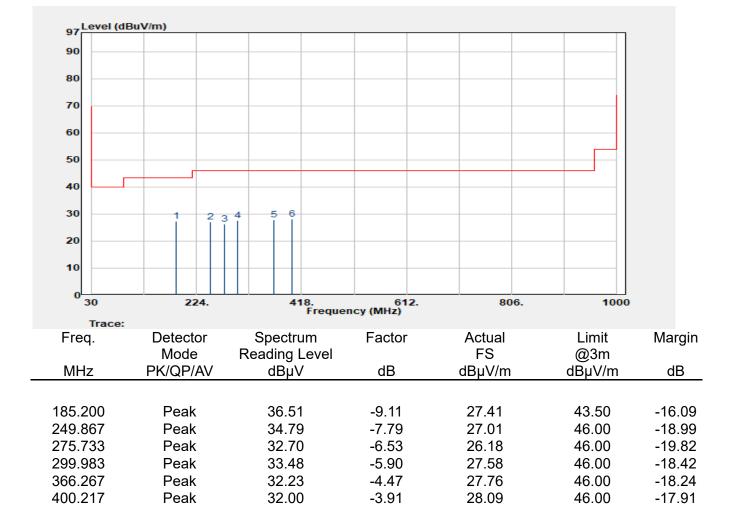
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-24
Test Frequency	:5785 MHz	Temp./Humi.	:19.3/58
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5180 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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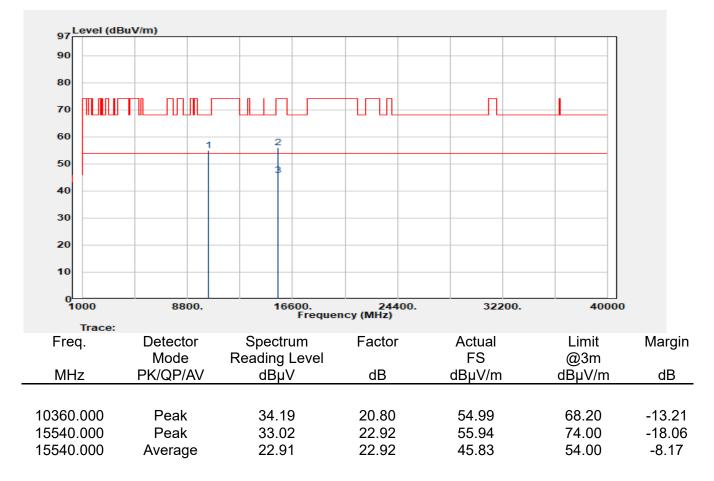
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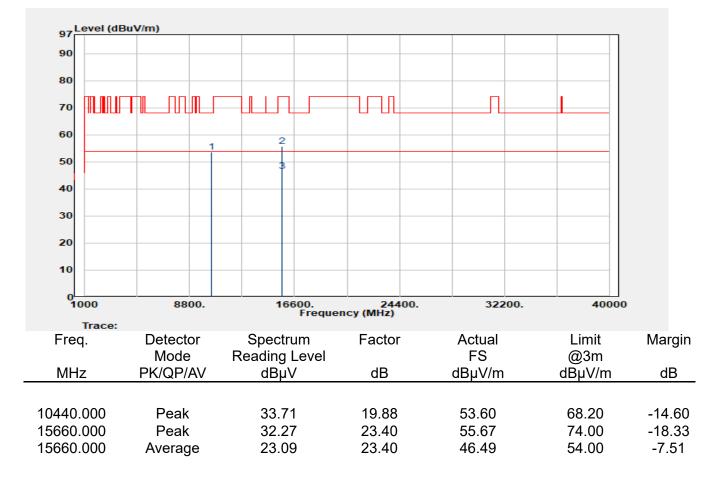
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5180 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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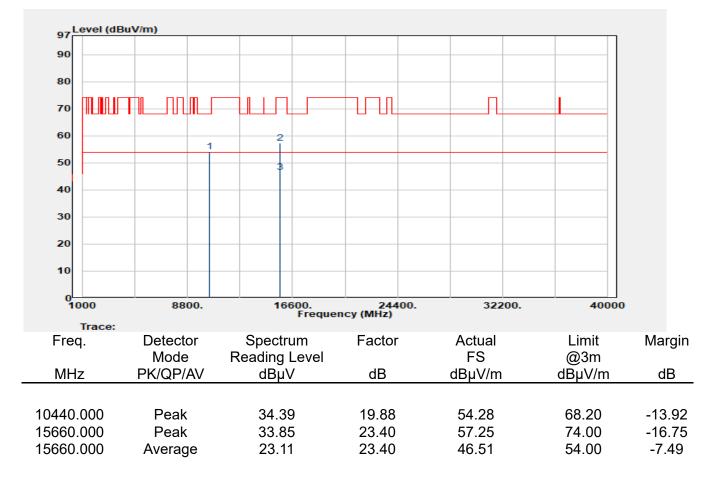
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5220 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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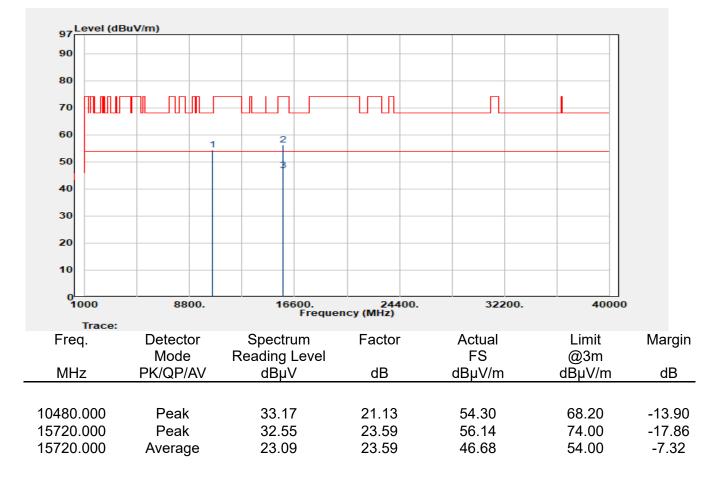
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5220 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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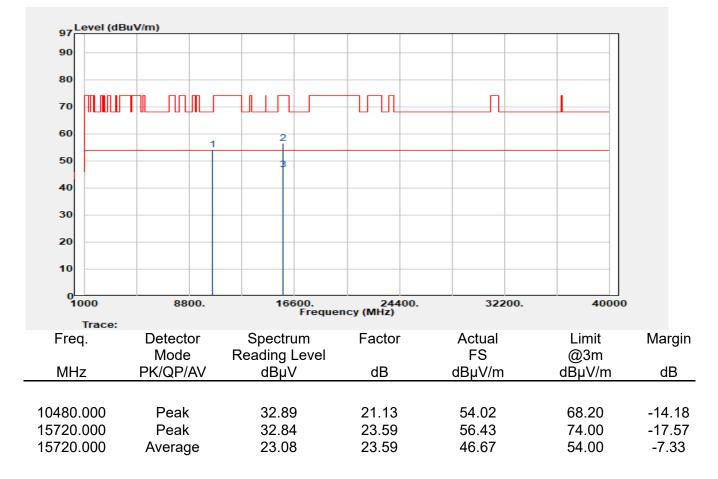
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5240 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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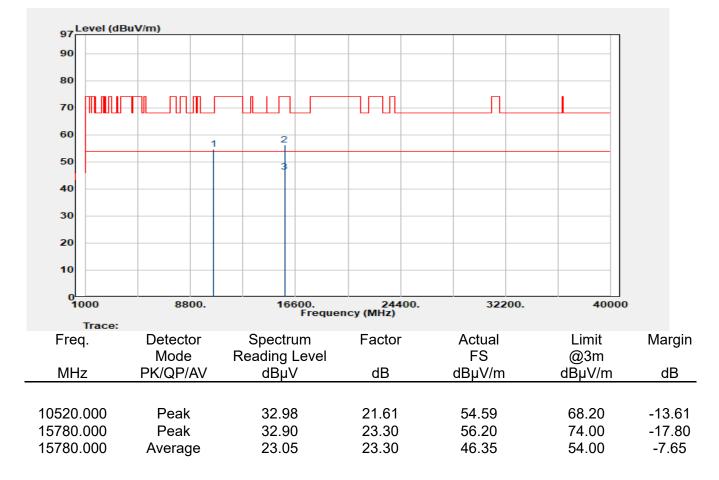
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5240 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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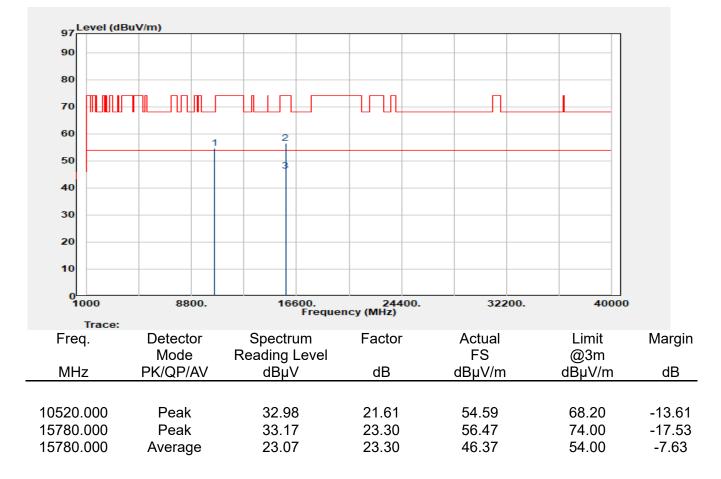
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5260 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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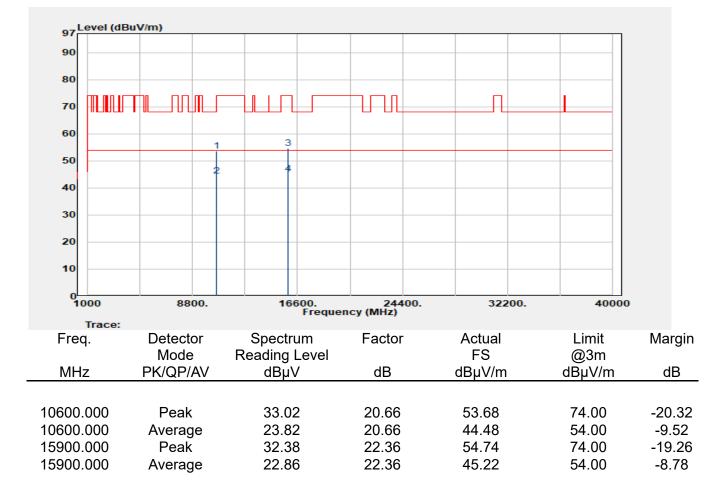
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5260 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5300 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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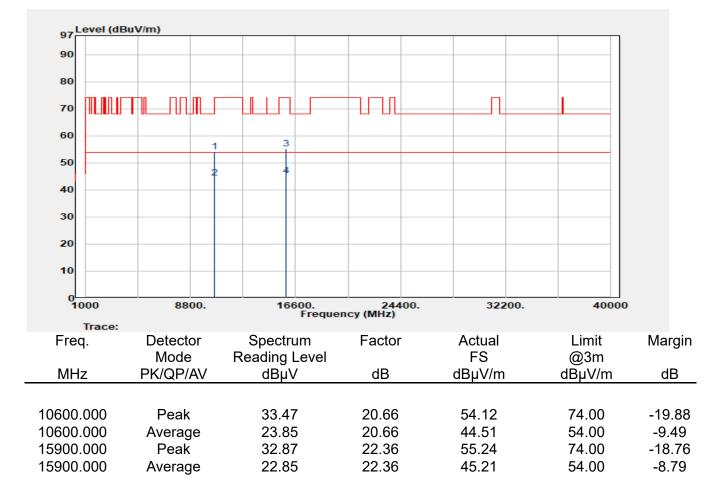
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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5300 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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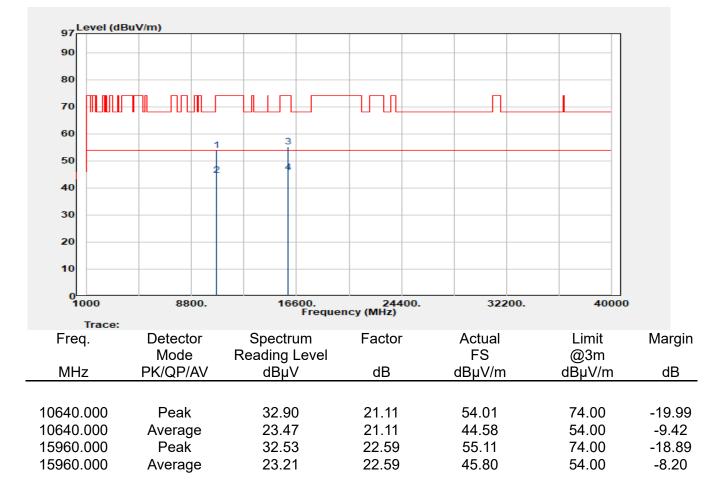
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5320 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5320 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

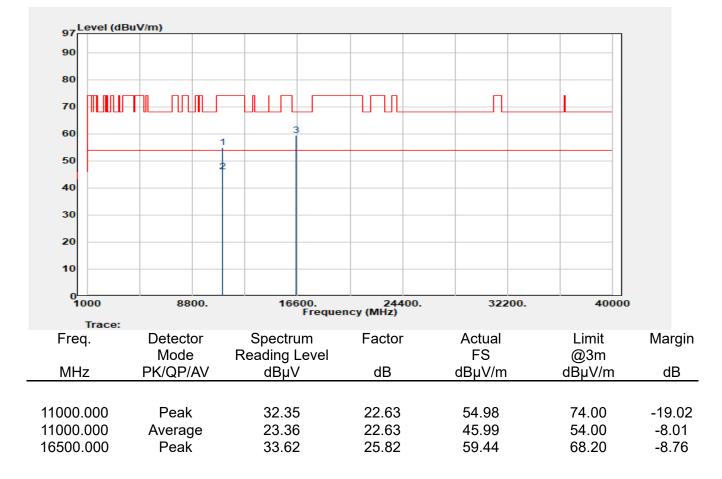


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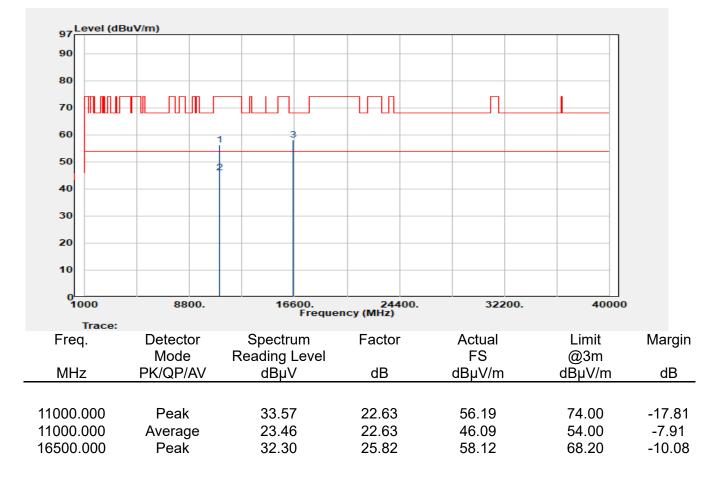
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5500 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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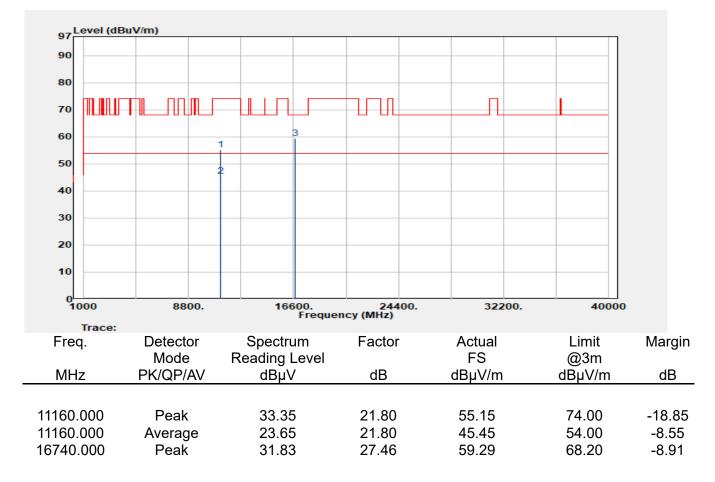
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5500 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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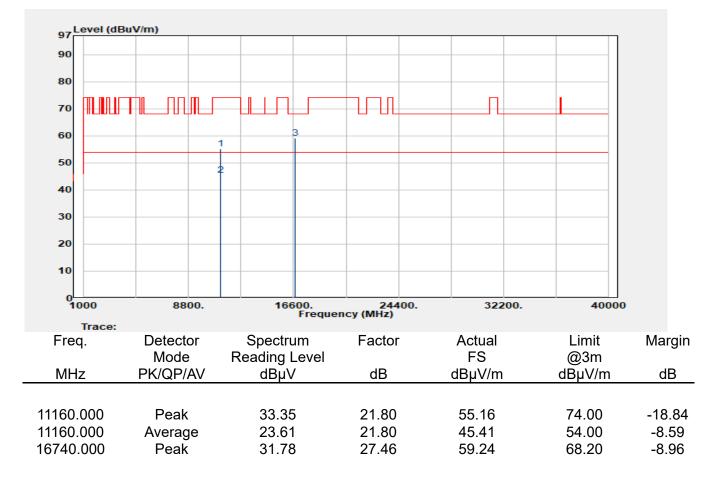
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5580 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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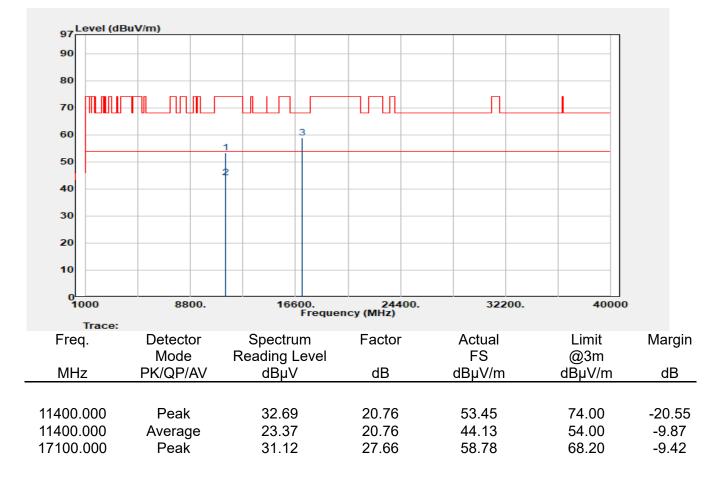
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5580 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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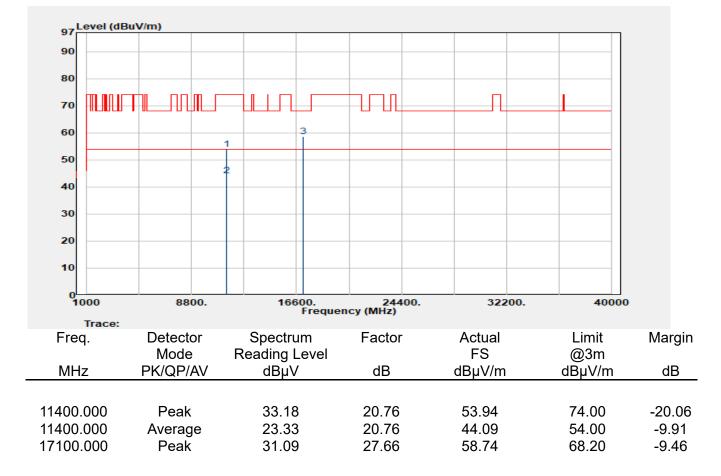
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5700 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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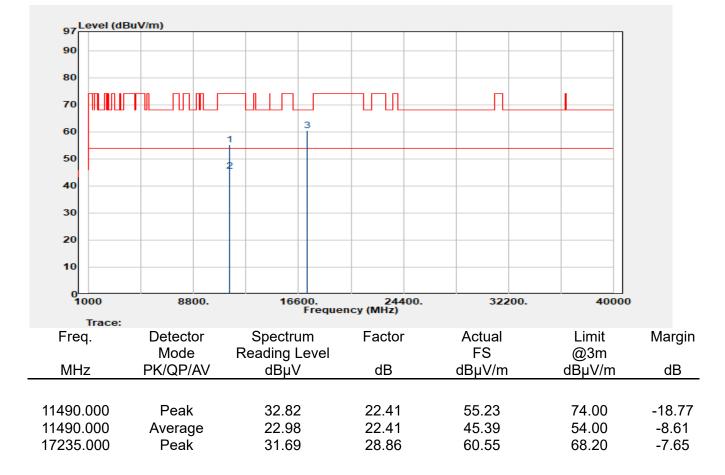
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5700 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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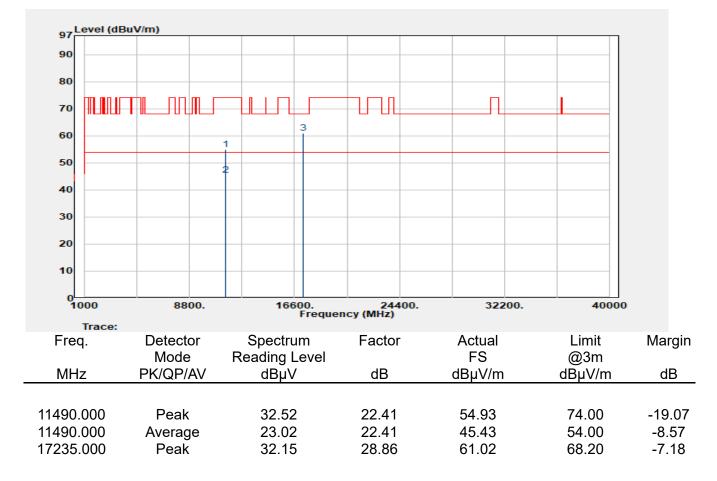
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5745 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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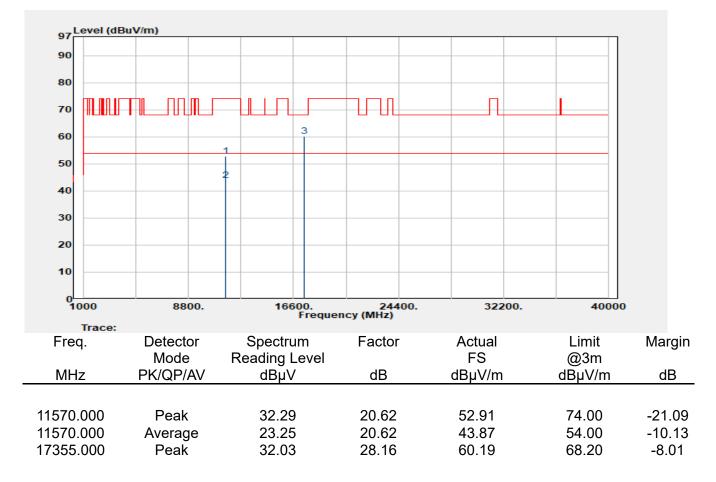
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5745 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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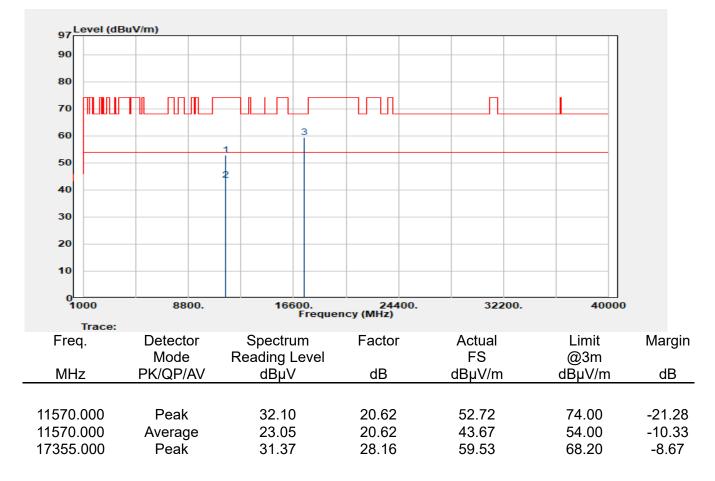
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5785 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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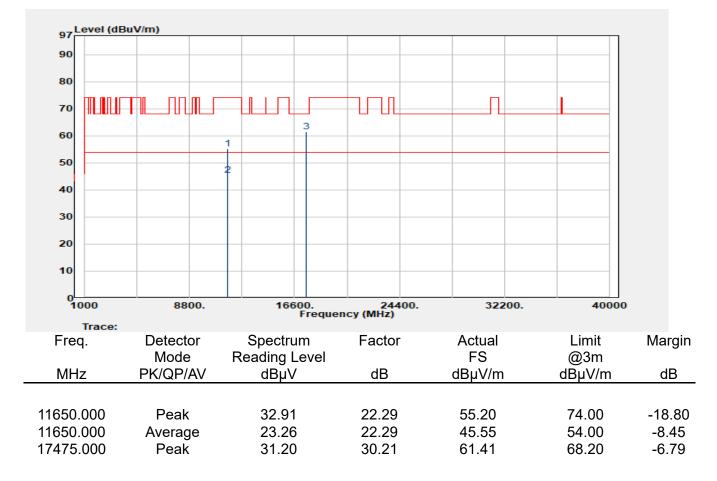
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5785 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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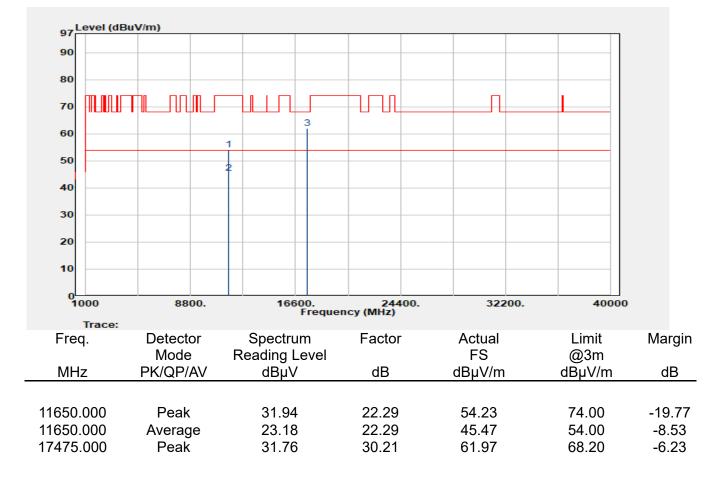
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5825 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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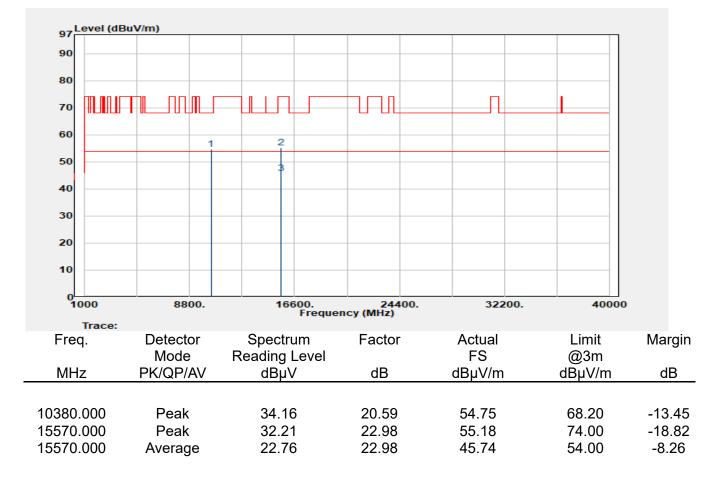
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5825 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5190 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



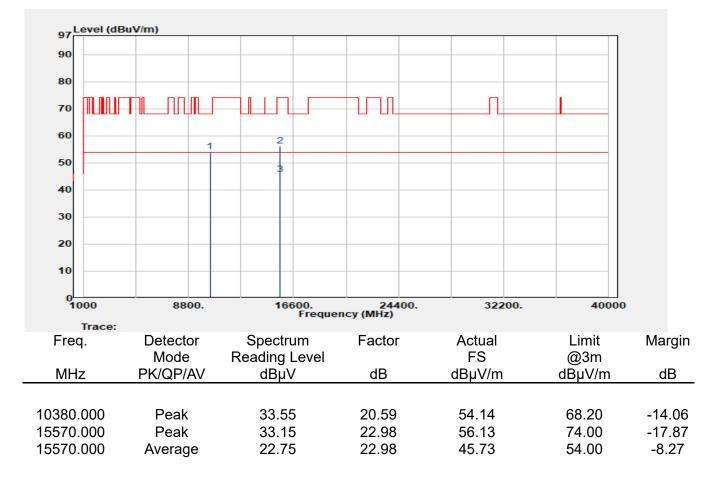
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5190 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

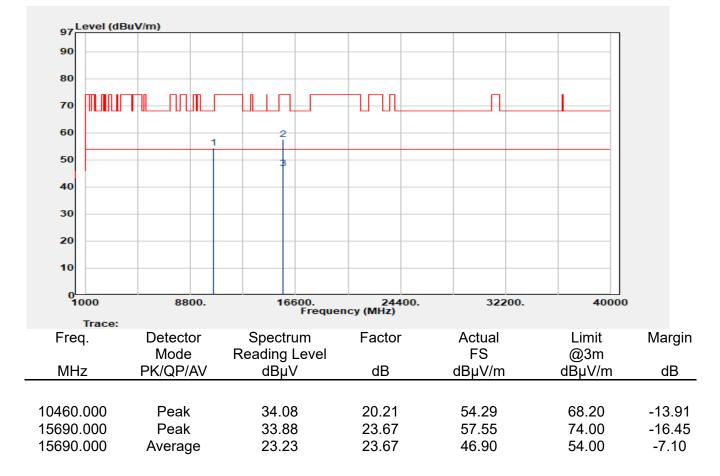


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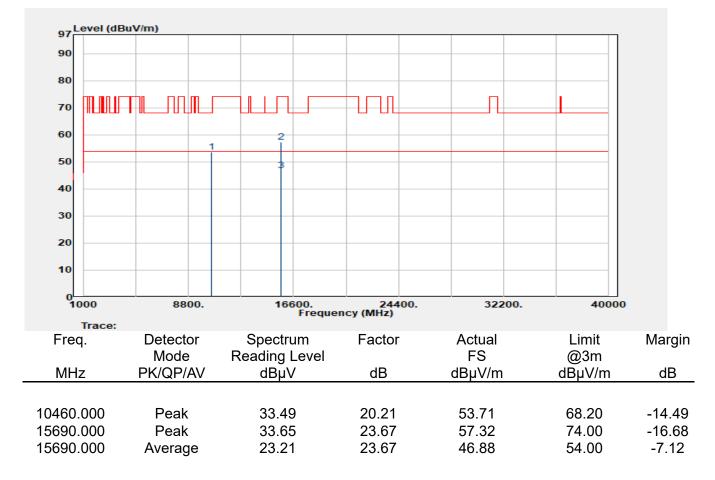
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5230 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5230 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



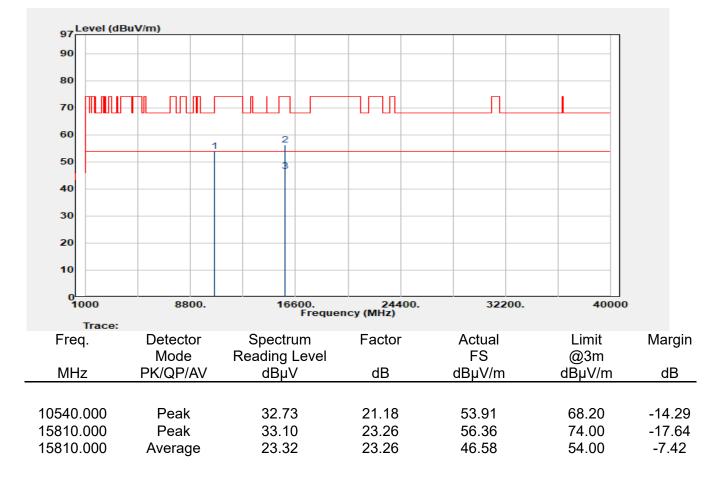
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5270 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



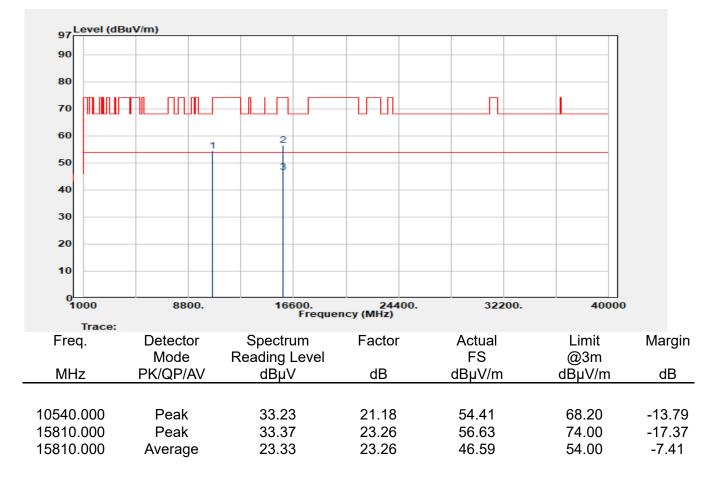
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5270 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

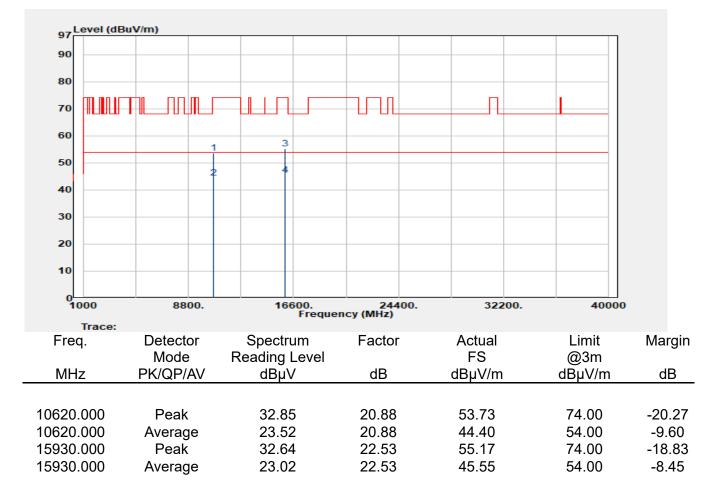


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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5310 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



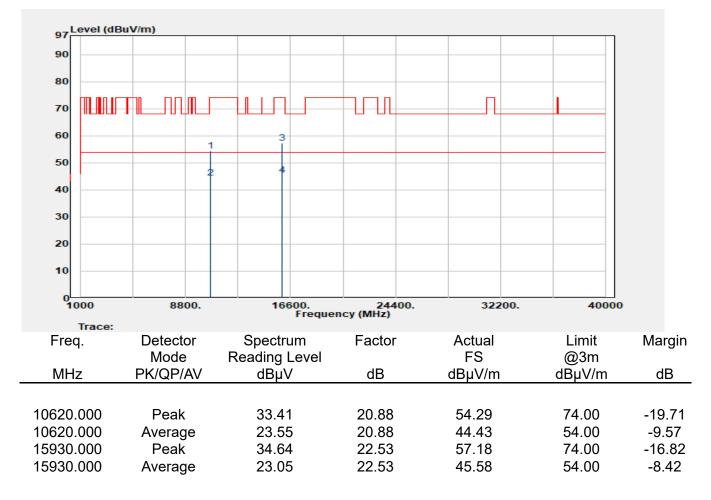
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5310 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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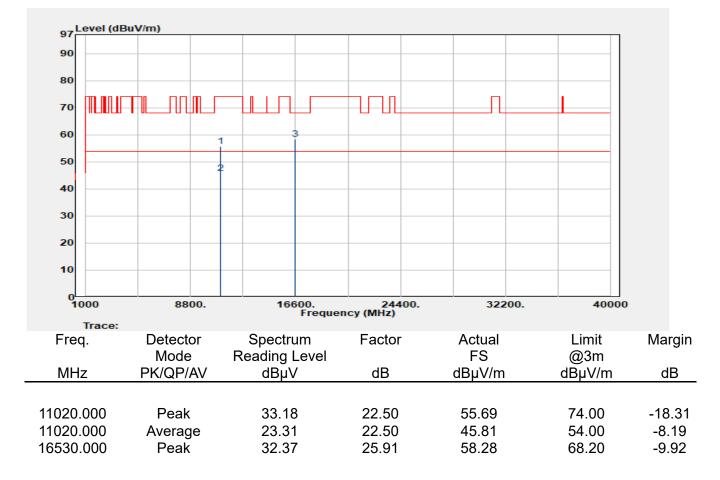
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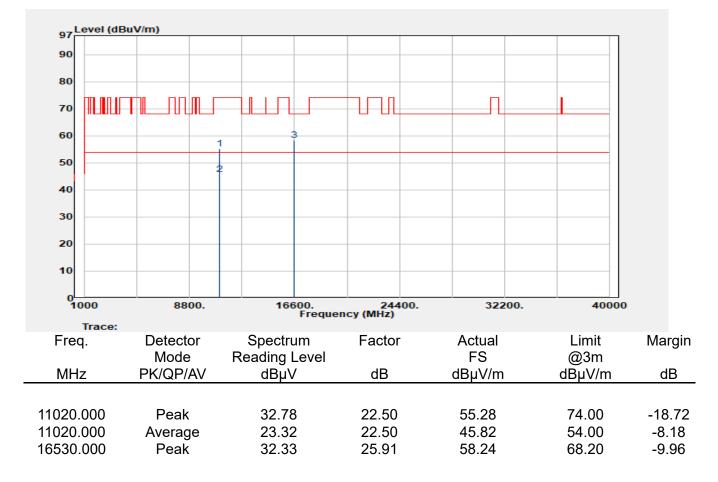
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5510 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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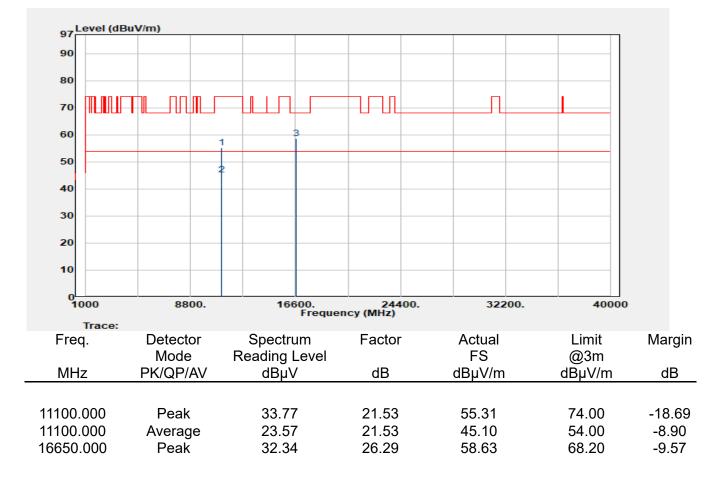
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5510 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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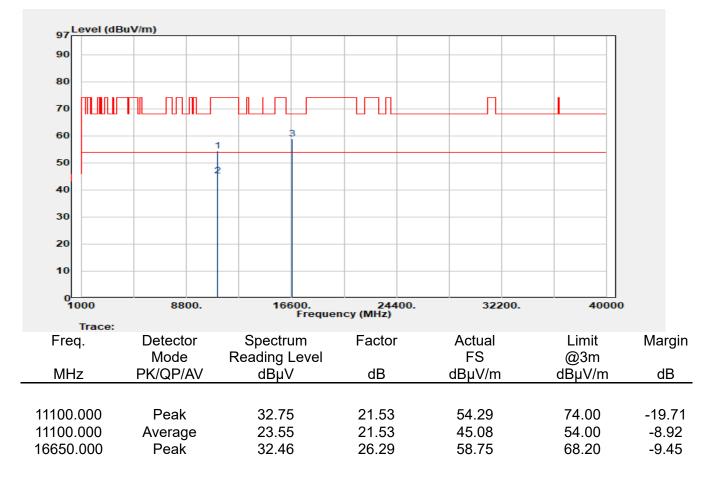
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5550 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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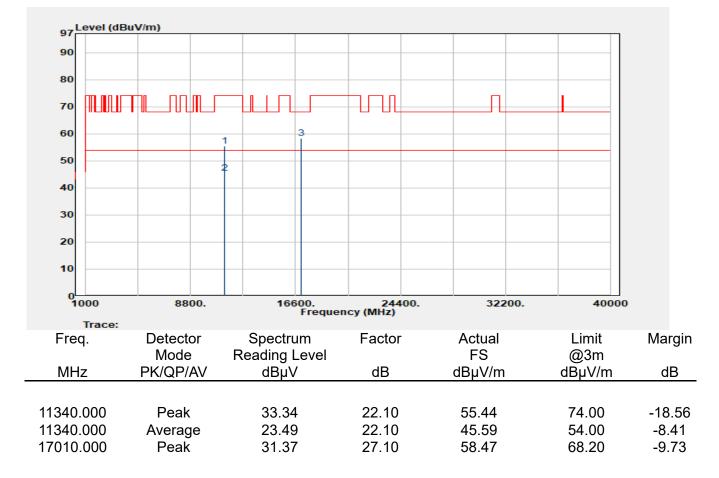
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5550 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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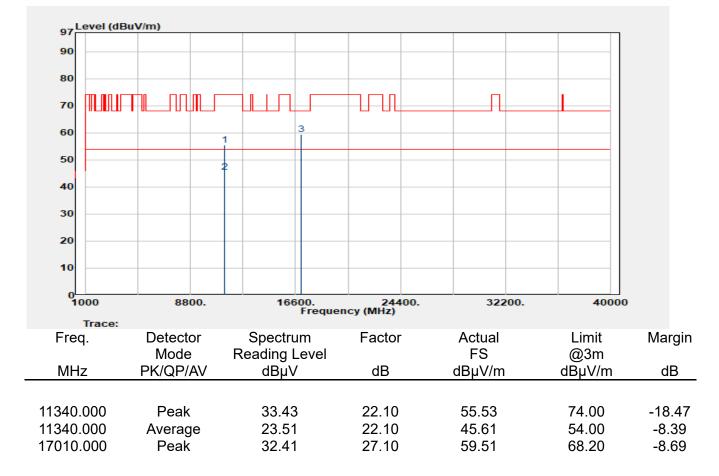
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5670 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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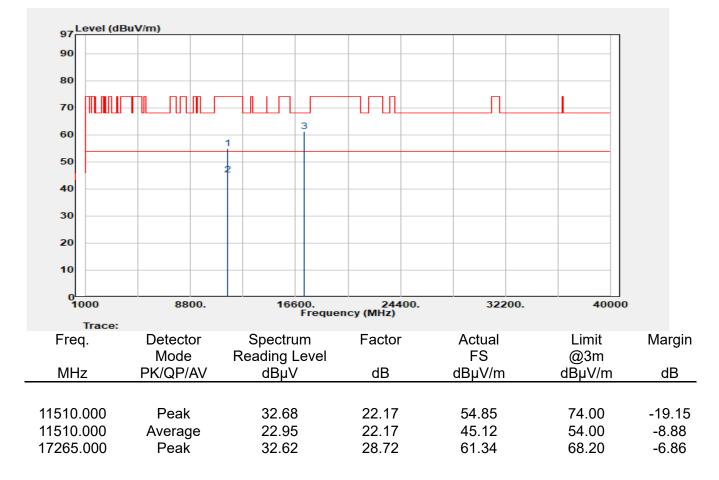
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5670 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5755 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

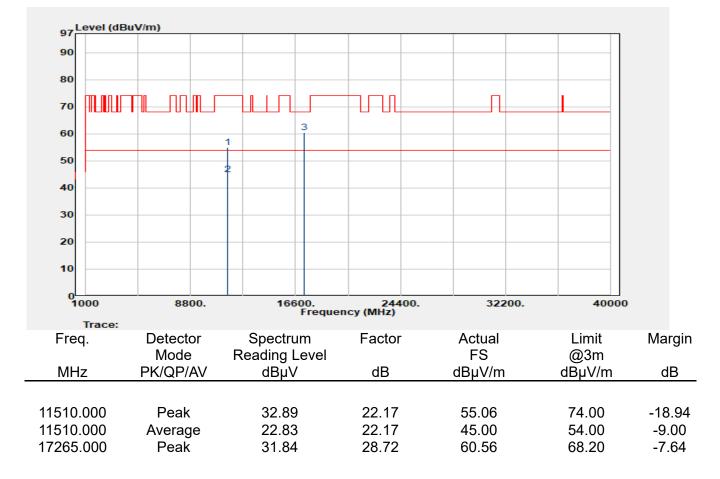


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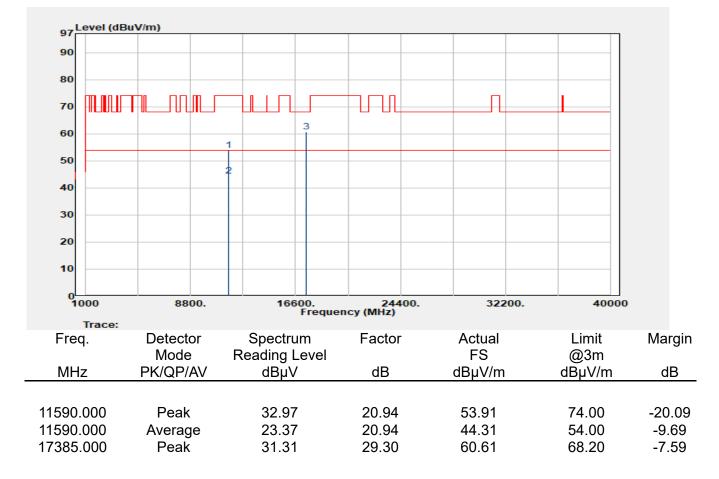
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5755 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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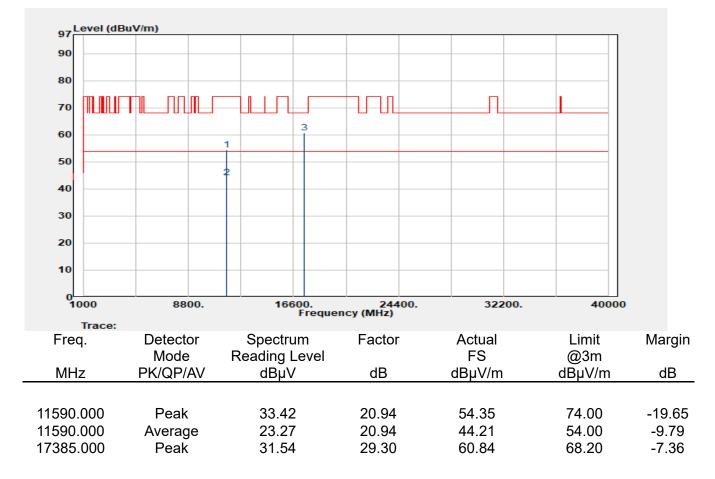
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5795 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5795 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



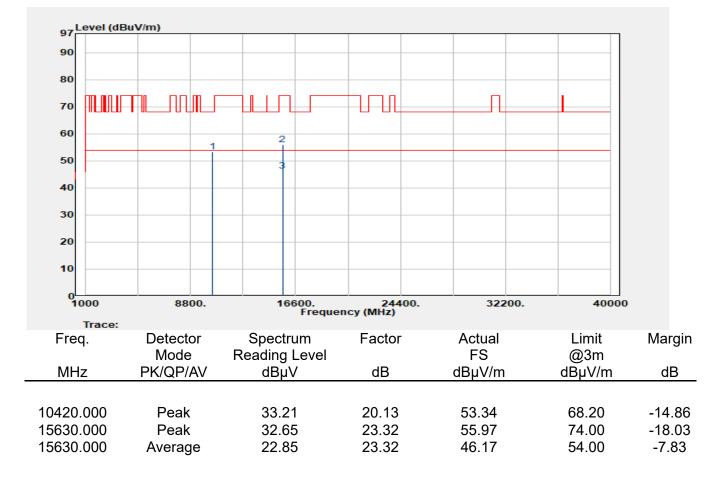
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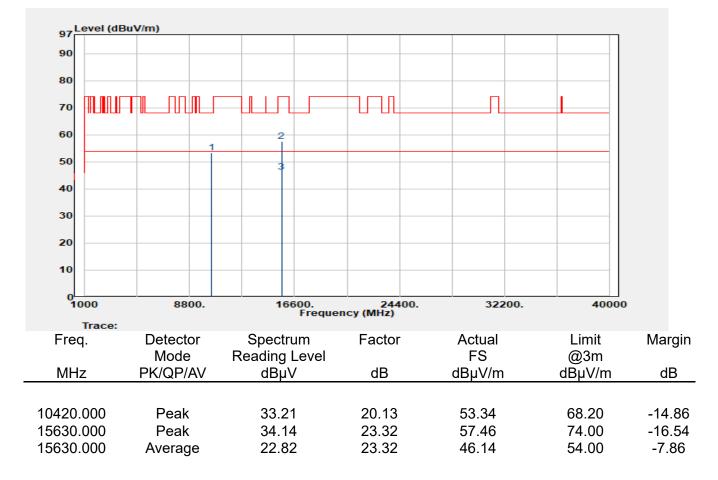
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5210 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5210 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



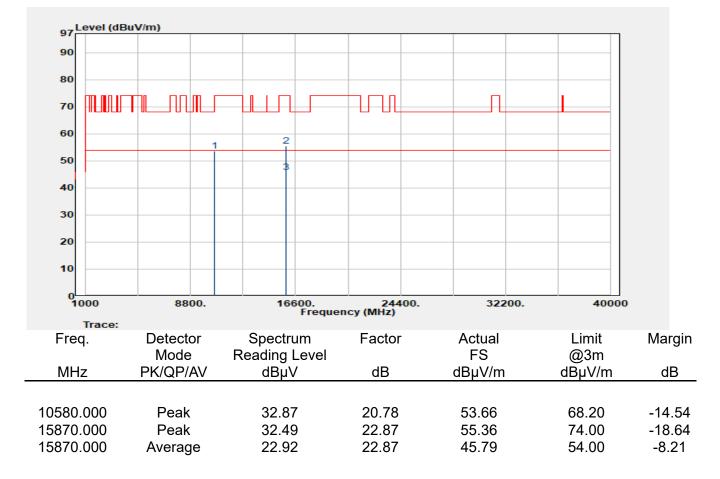
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5290 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

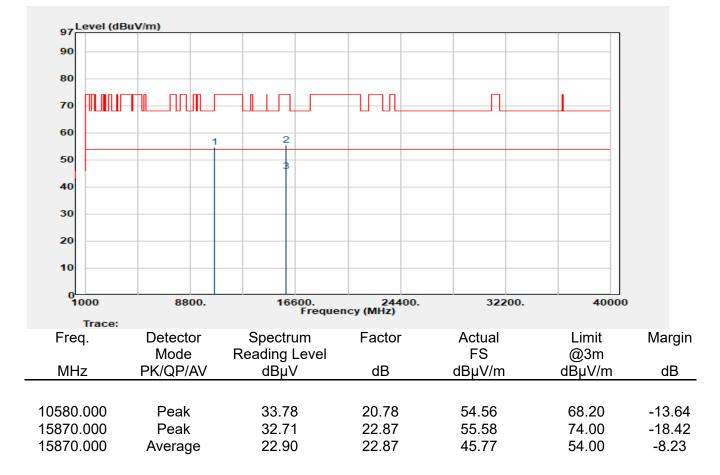


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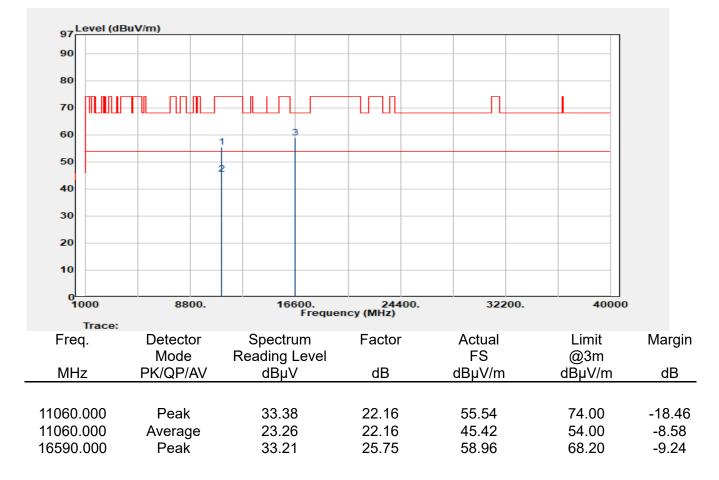
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5290 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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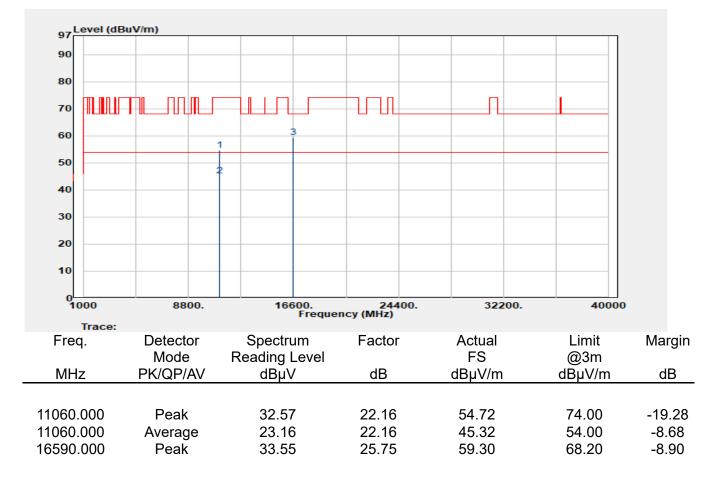
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5530 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5530 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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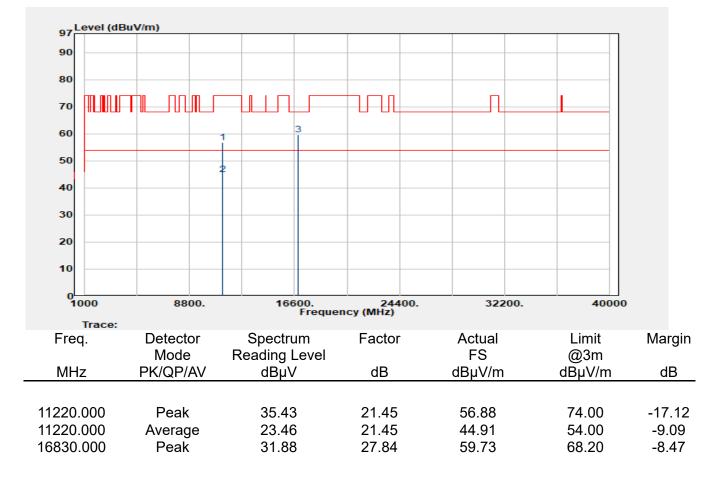
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5610 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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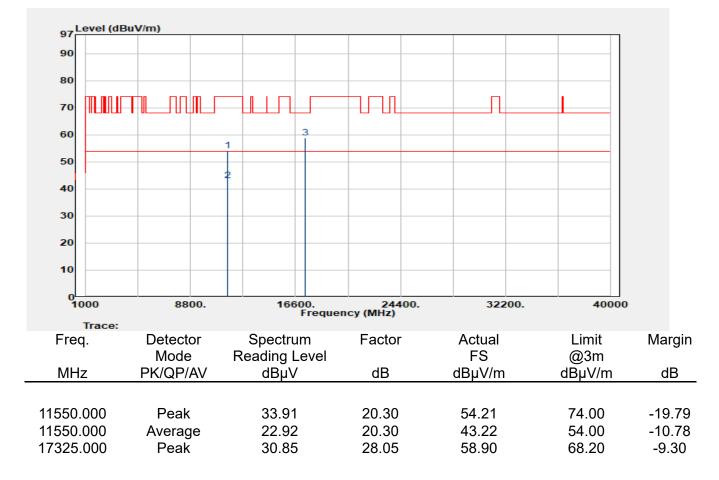
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5610 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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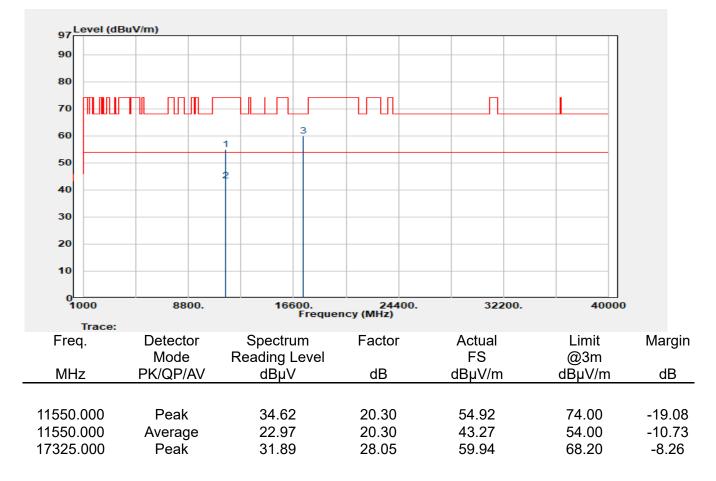
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5775 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5775 MHz	Temp./Humi.	:18.7/57
Test Mode	:Tx CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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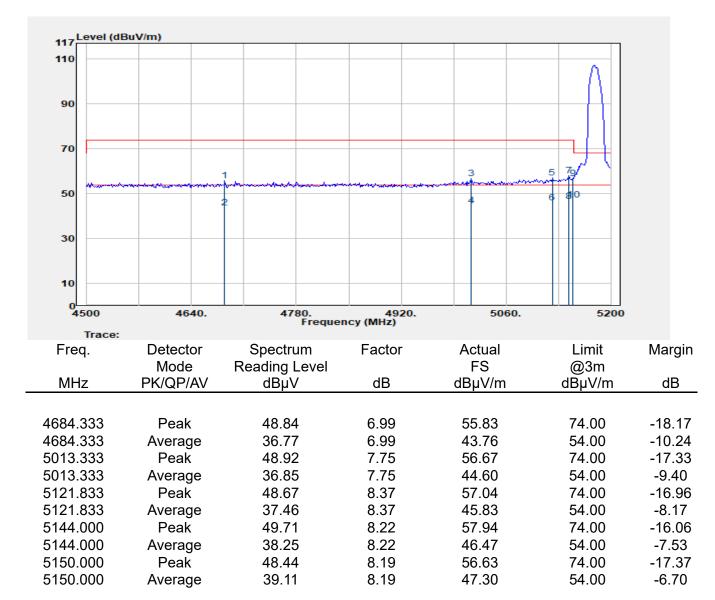
Report No.: ER/2021/A0117 Page: 184 of 261



## 11.6.2 Band edge falling to restricted band

## 11.6.2.1 FM4500F connect FM-SHARK-DUAL antenna

Report Number	:ER/2021/A0117	Test Site	:SAC 3
<b>Operation Mode</b>	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5180 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



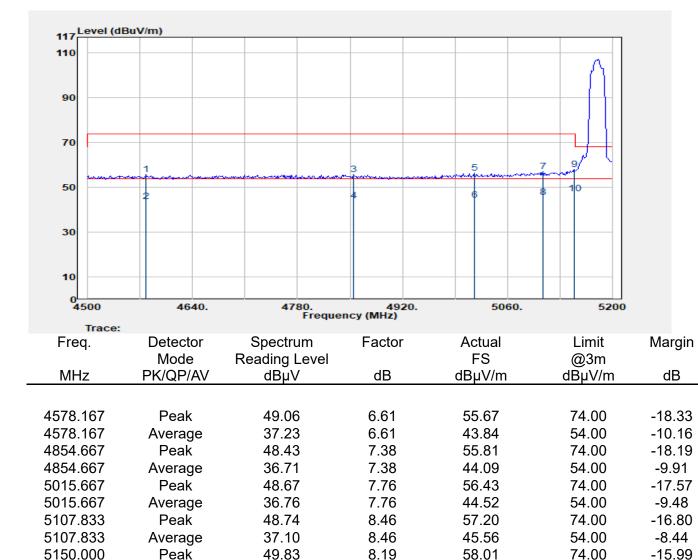
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5180 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



39.10

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8.19

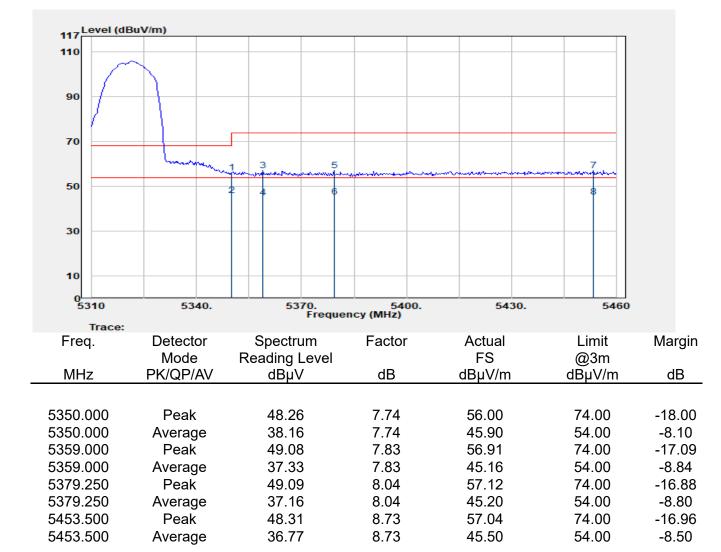
47.29

54.00

-6.71



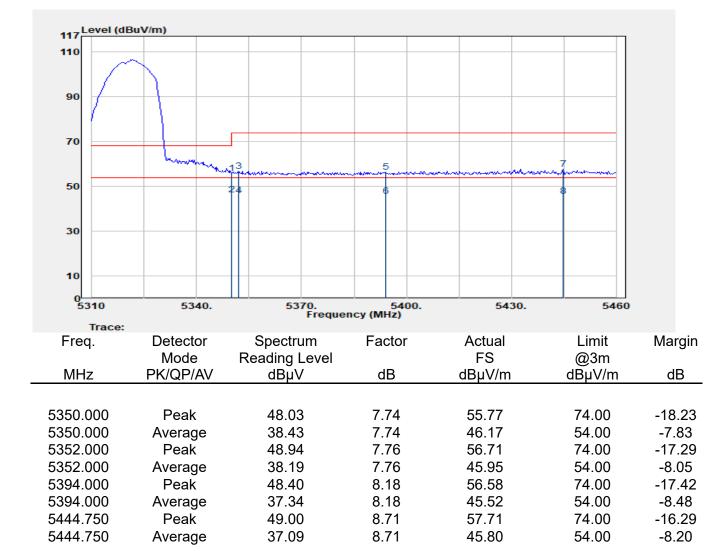
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5320 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5320 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

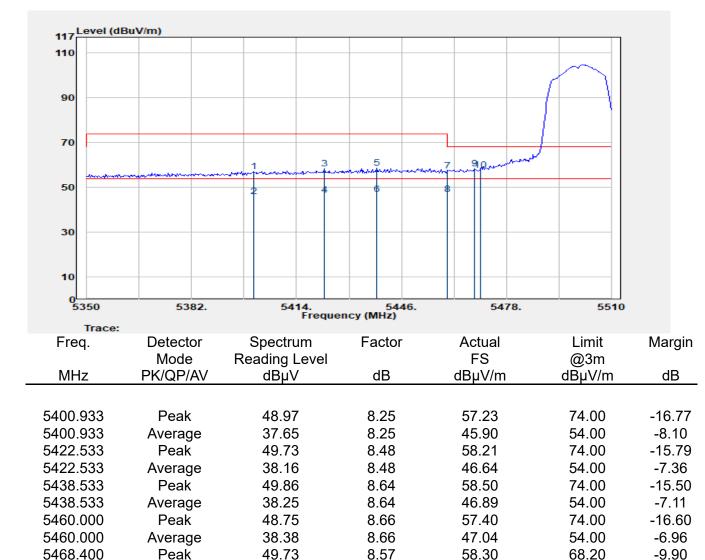


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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5500 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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49.03

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8.56

57.59

68.20

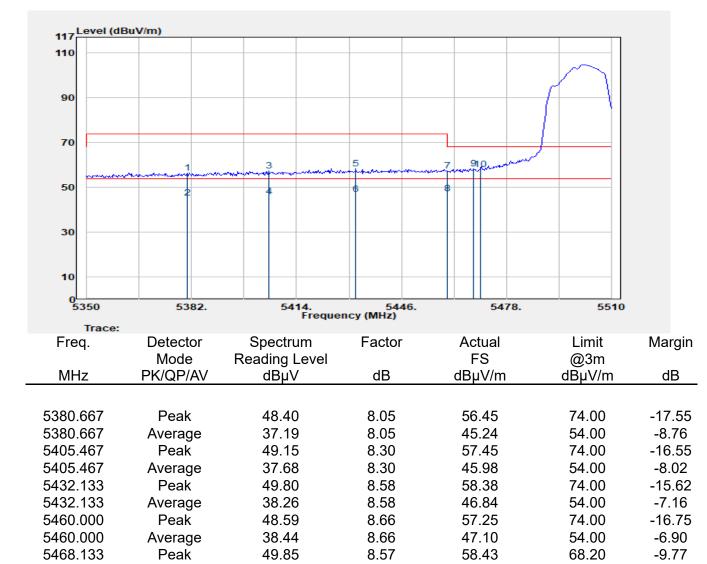
-10.61

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5470.000

Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5500 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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49.34

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8.56

57.89

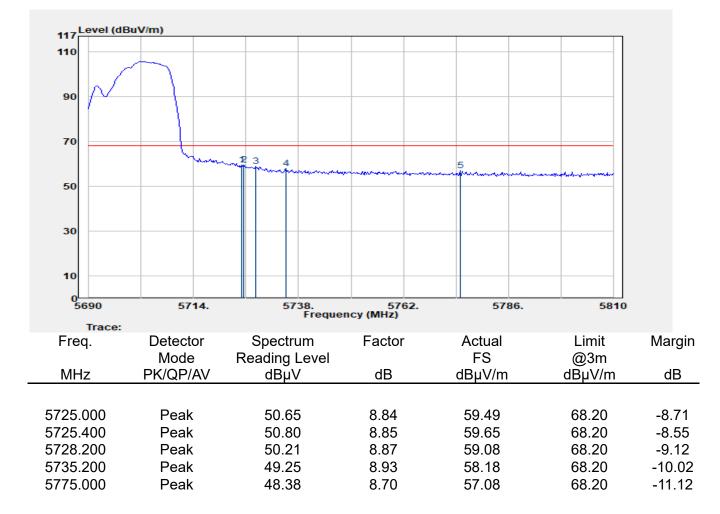
68.20

-10.31

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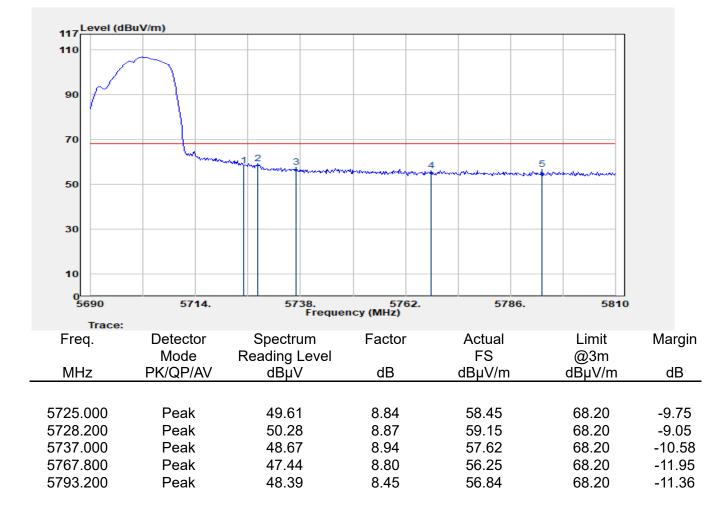
Report Number	:ER/2021/A0117	Test Site	:SAC 3
<b>Operation Mode</b>	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5700 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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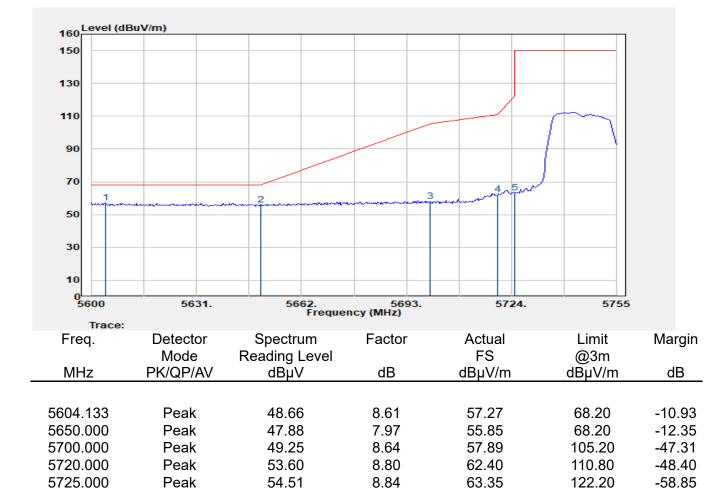
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5700 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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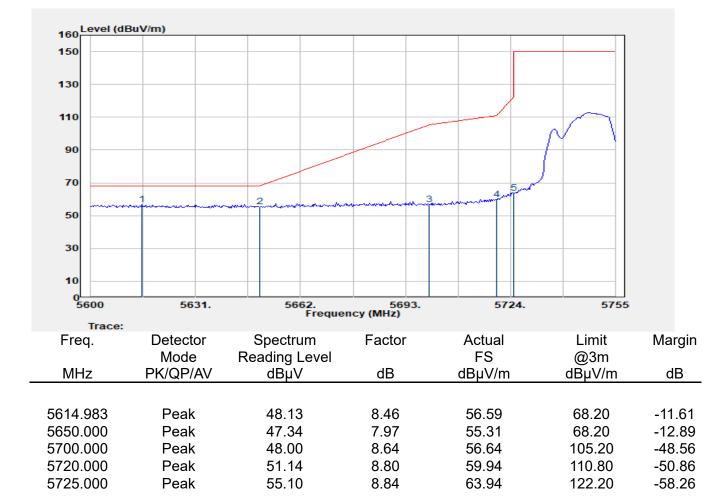
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Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5745 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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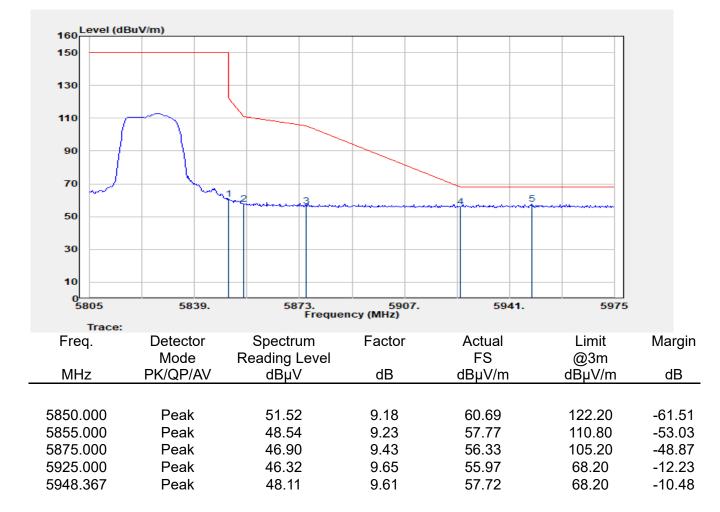
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5745 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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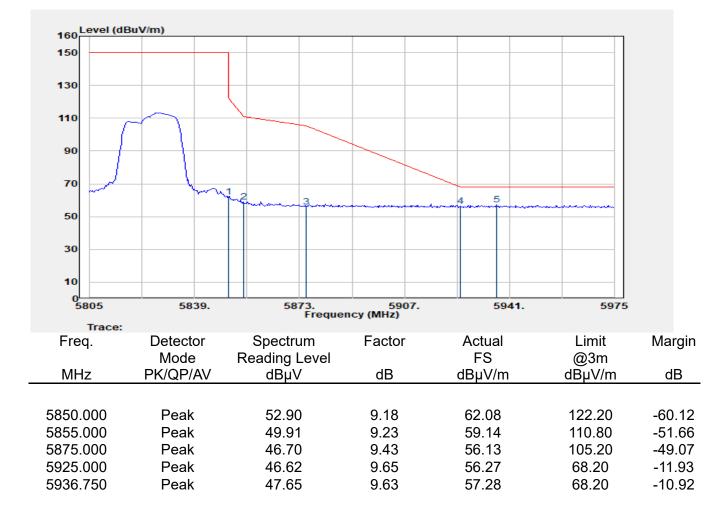
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5825 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-23
Test Frequency	:5825 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



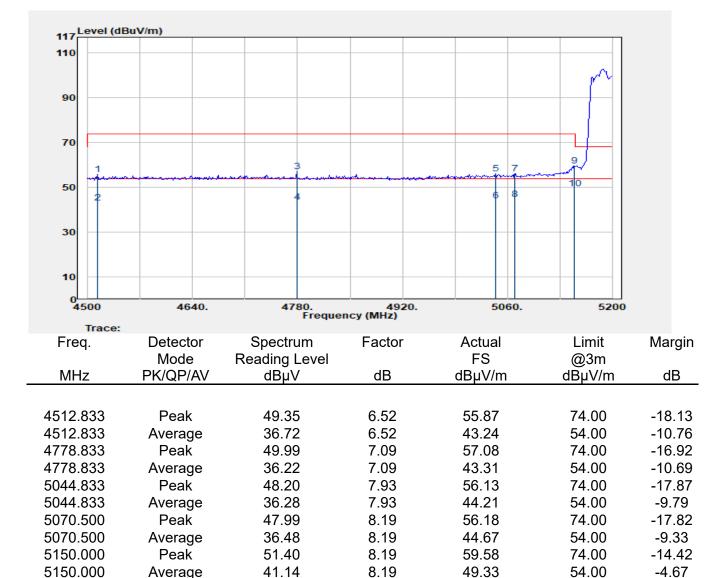
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5190 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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41.14

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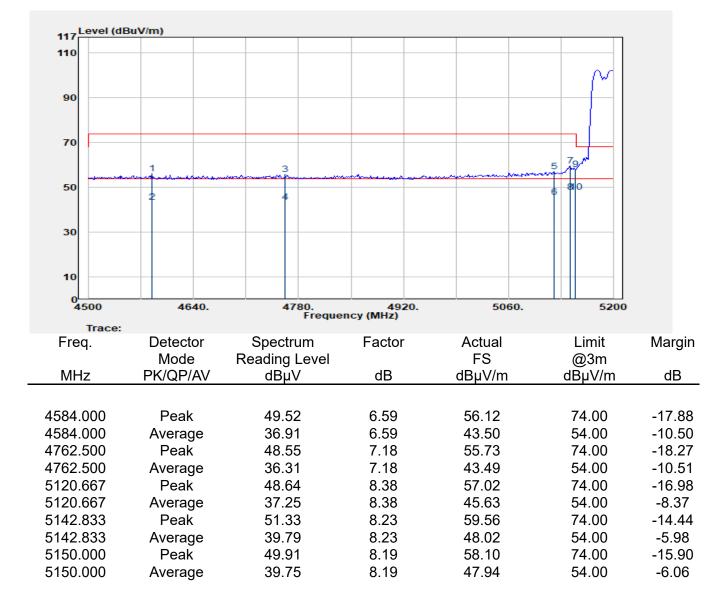
8.19

49.33

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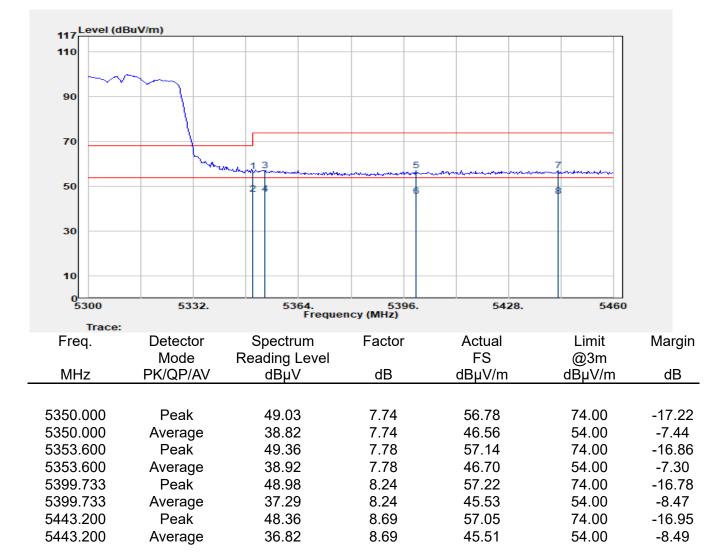
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5190 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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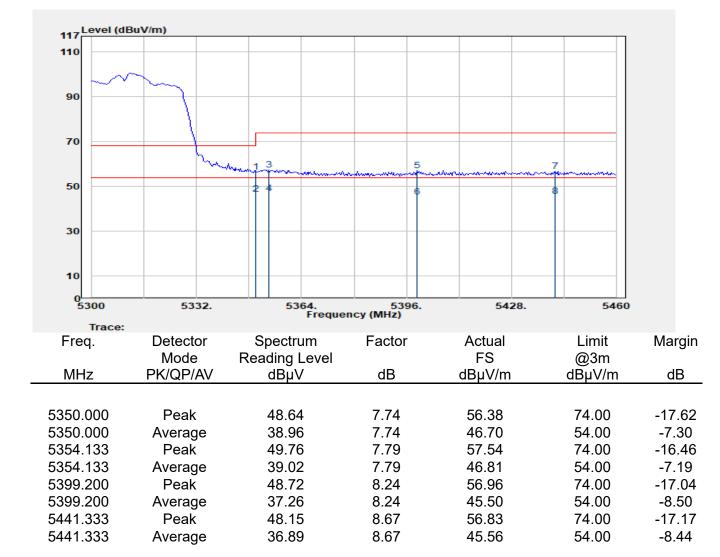
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5310 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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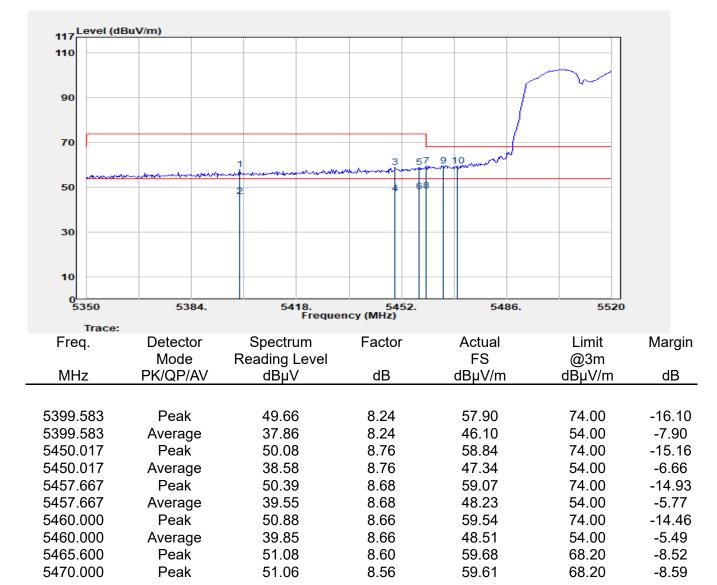
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5310 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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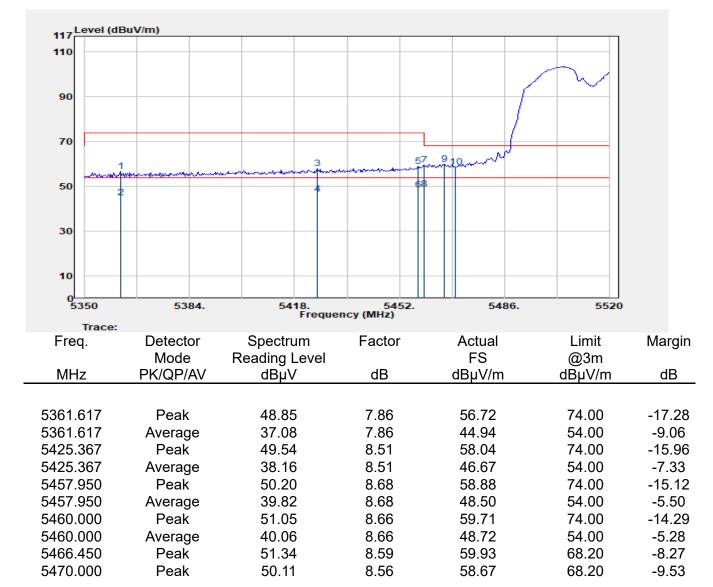
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5510 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5510 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

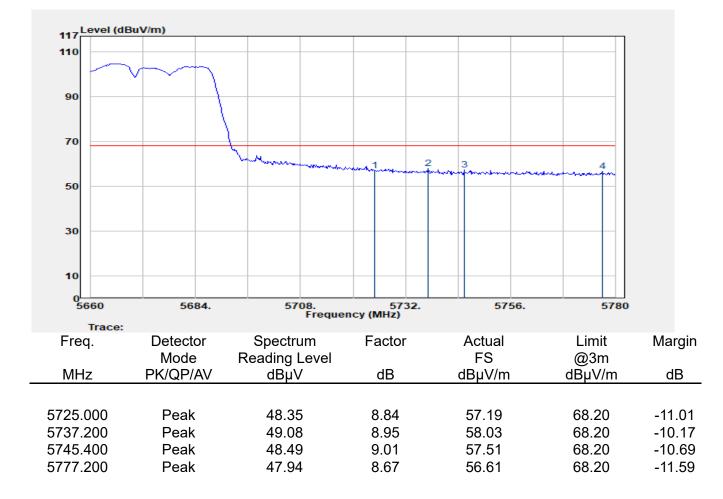


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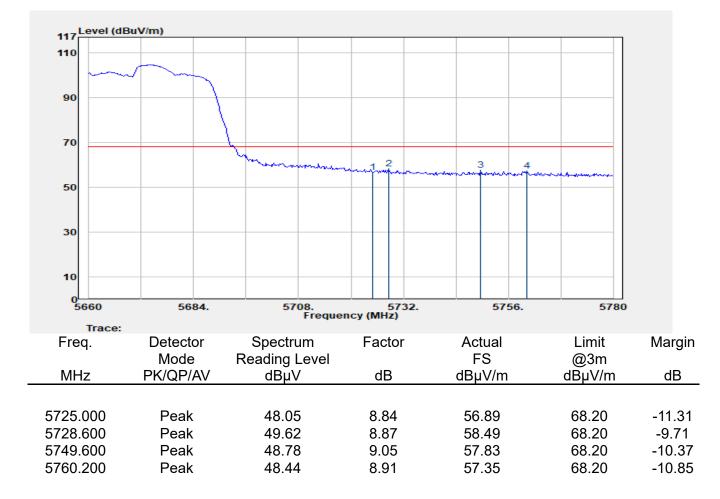
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5670 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5670 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

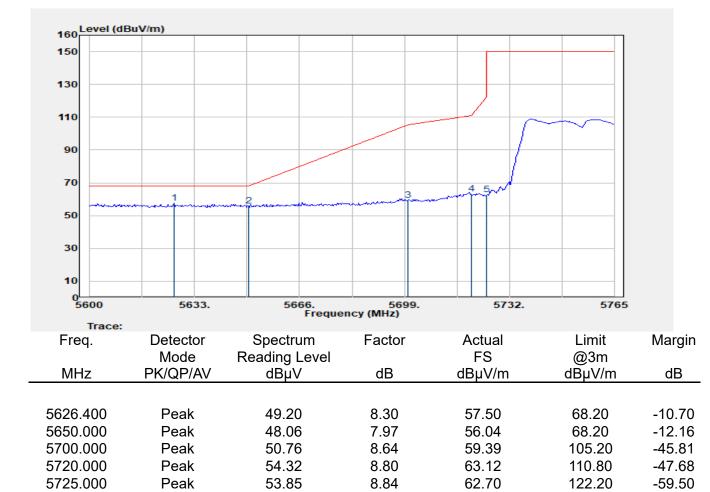


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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5755 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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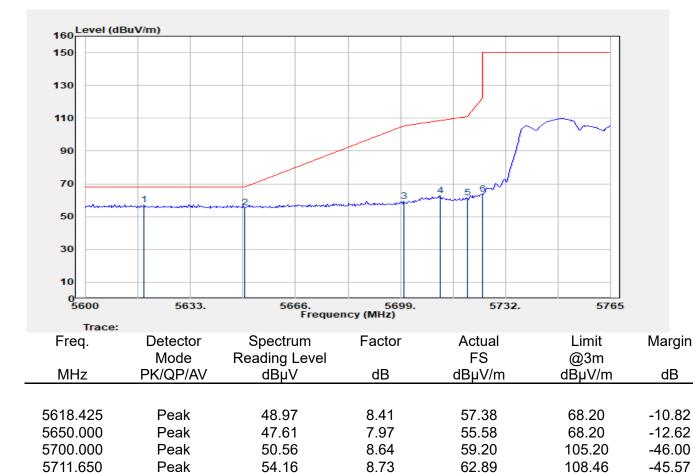
5720.000

5725.000

Peak

Peak

Report Number	:ER/2021/A0117	Test Site	:SAC 3
<b>Operation Mode</b>	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5755 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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52.64

55.07

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8.80

8.84

61.44

63.92

-49.36

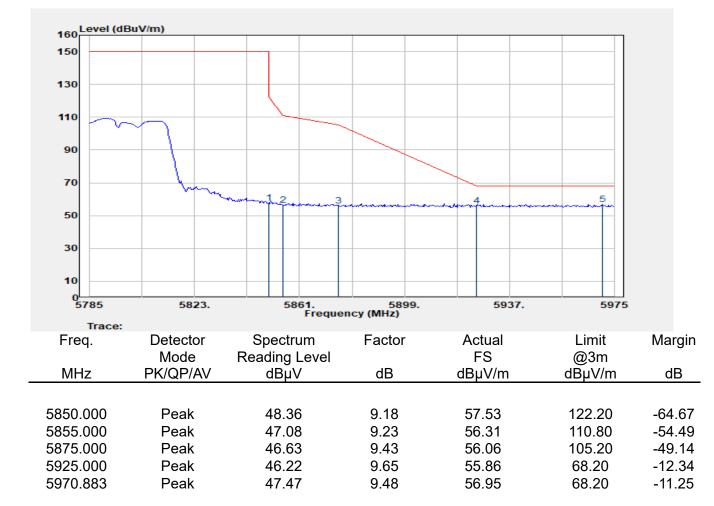
-58.28

110.80

122.20



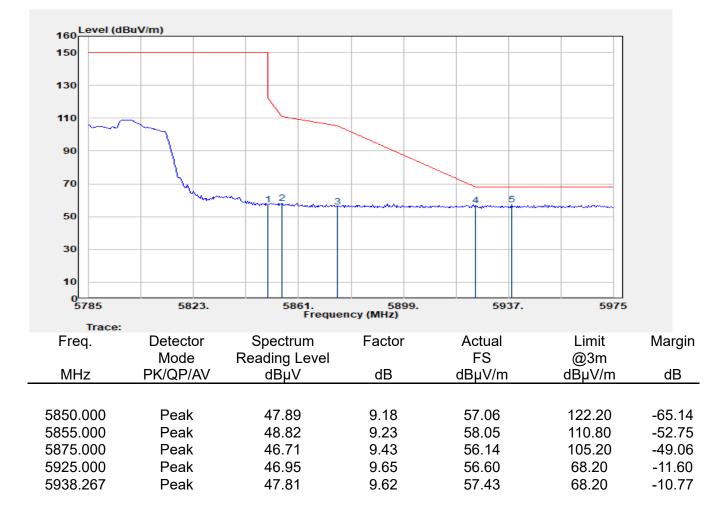
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5795 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-23
Test Frequency	:5795 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

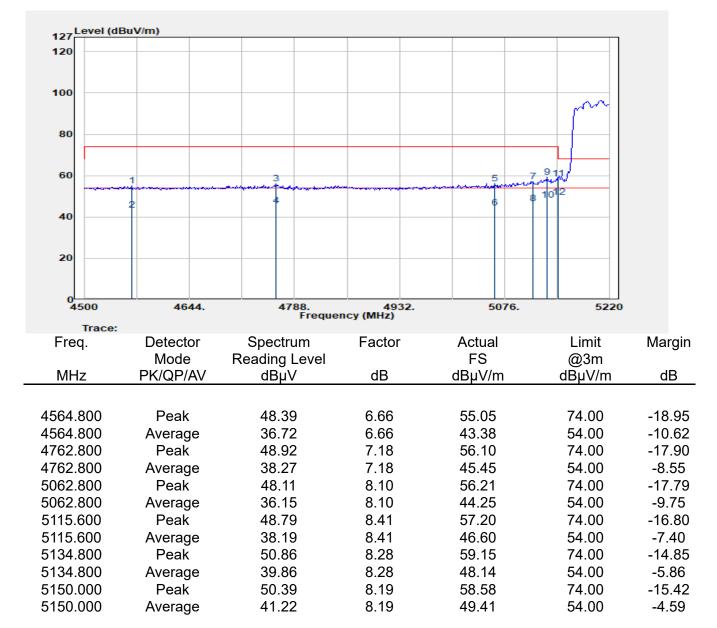


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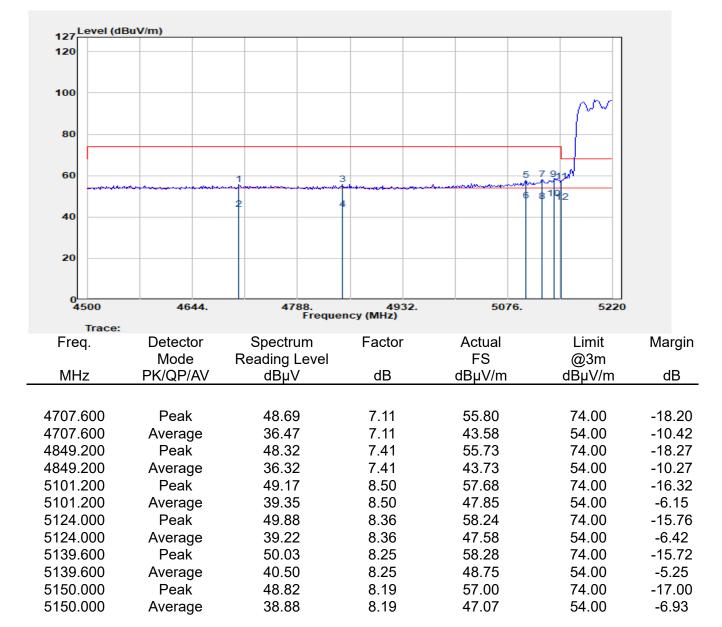
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5210 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5210 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

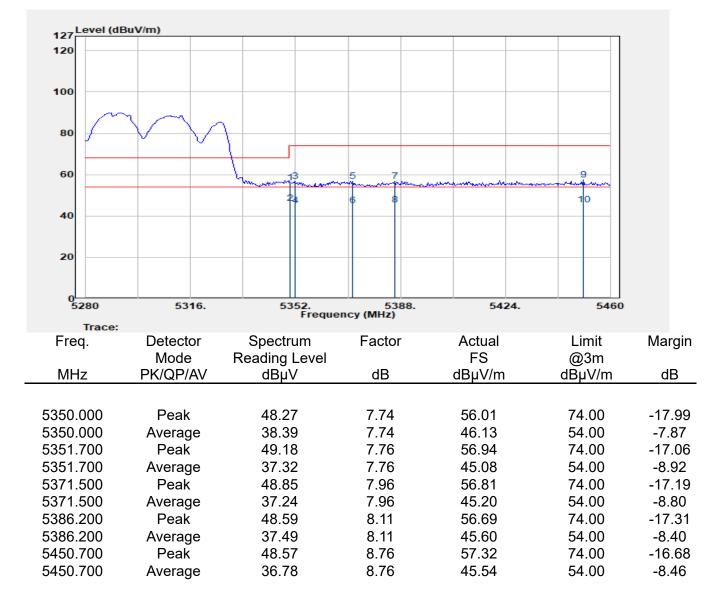


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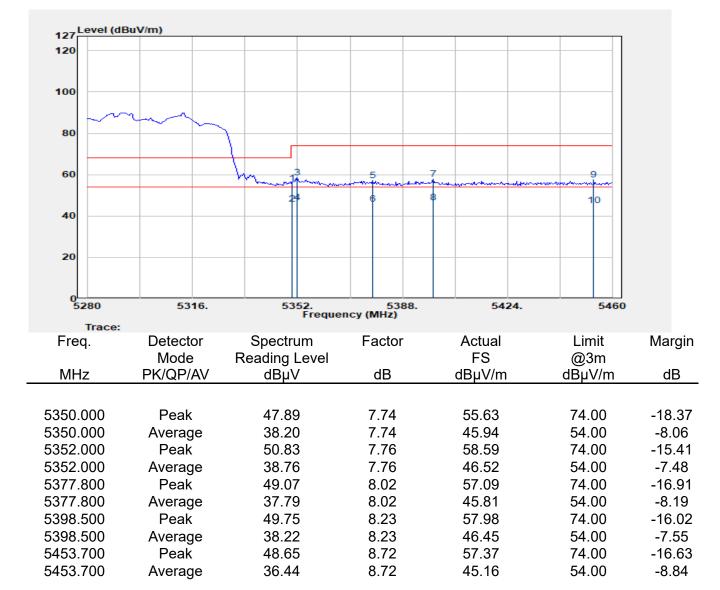
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5290 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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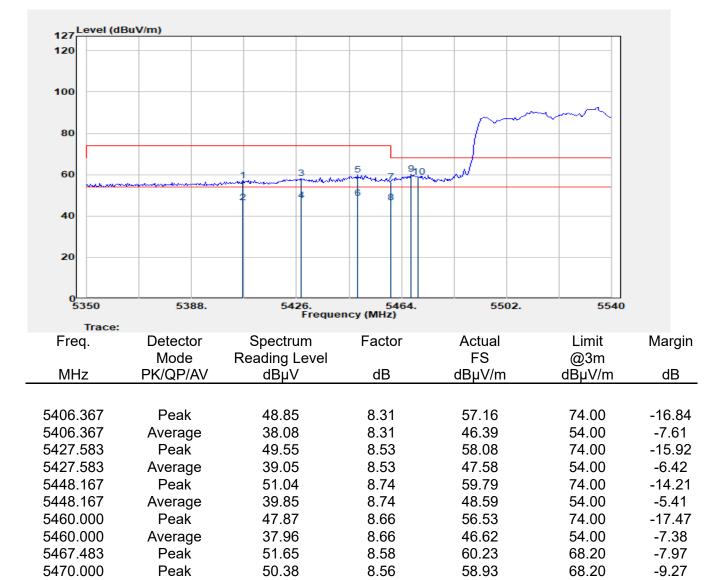
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5290 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5530 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



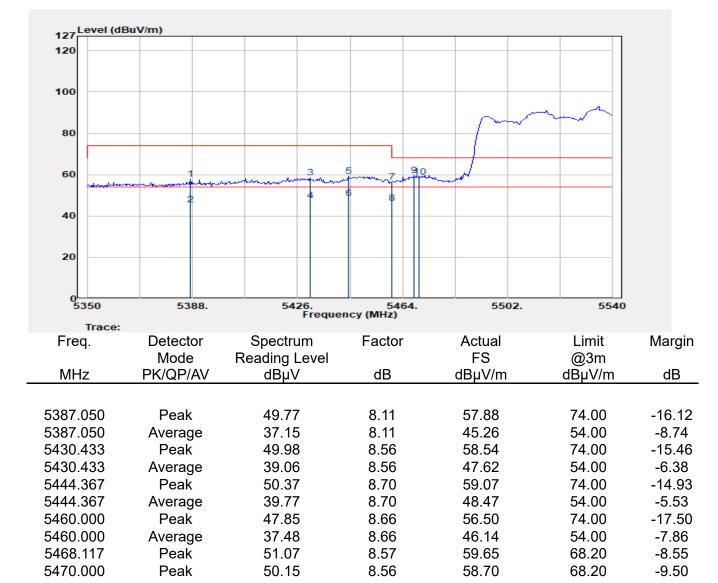
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F	Report Number	:ER/2021/A0117	Test Site	:SAC 3
C	Operation Mode	:802.11ac80	Test Date	:2022-02-23
Т	est Frequency	:5530 MHz	Temp./Humi.	:19.5/63
Т	est Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
E	UT Pol	:E2 Plane	Engineer	:Jack Liu

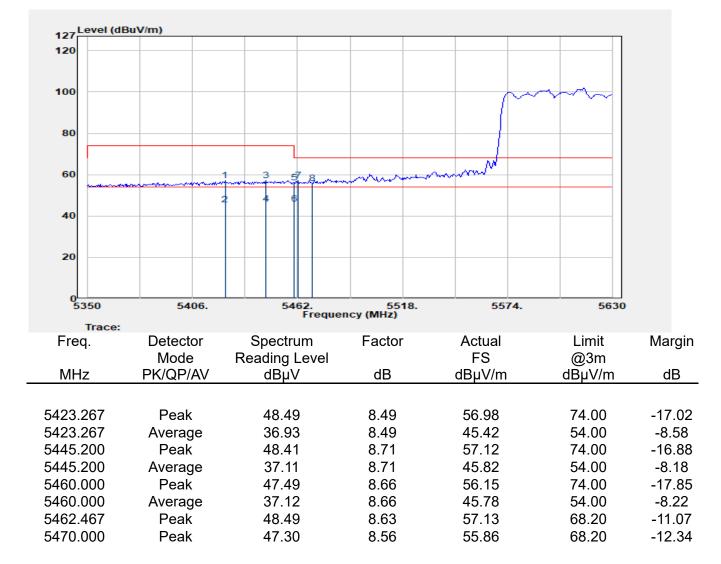


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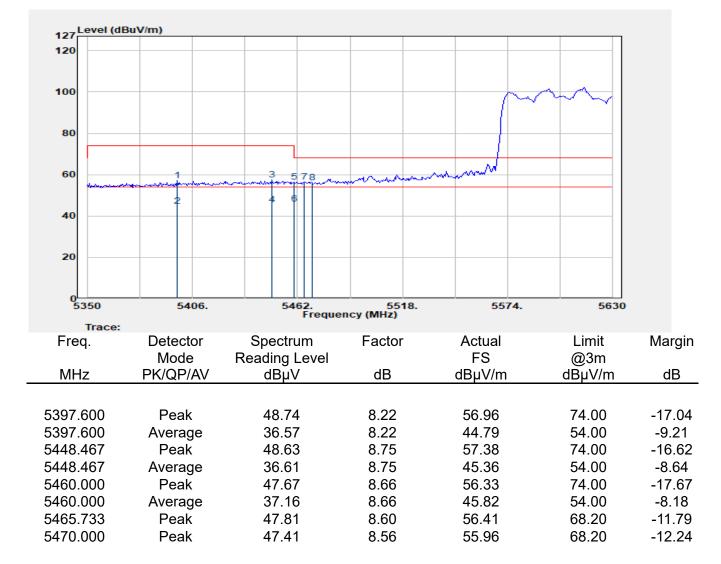
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5610 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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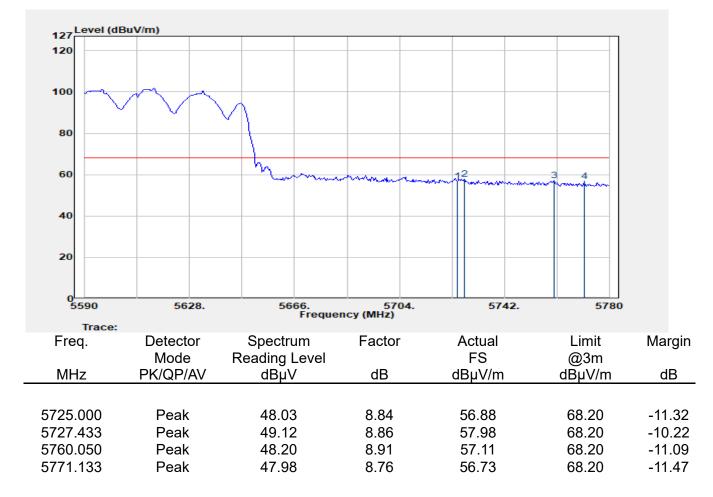
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5610 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5610 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

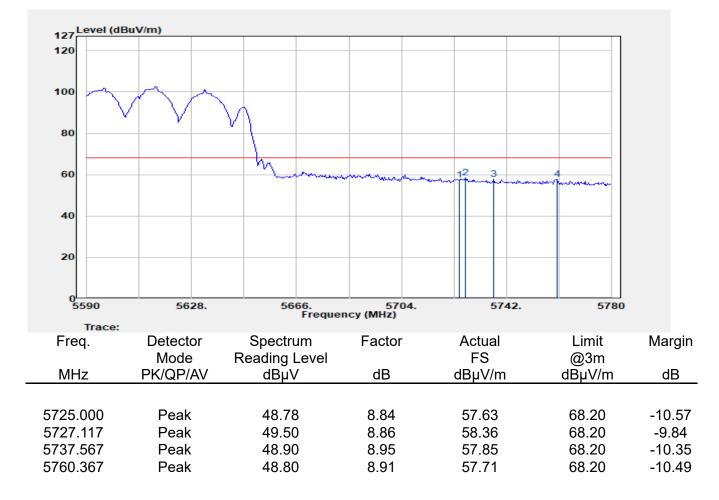


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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5610 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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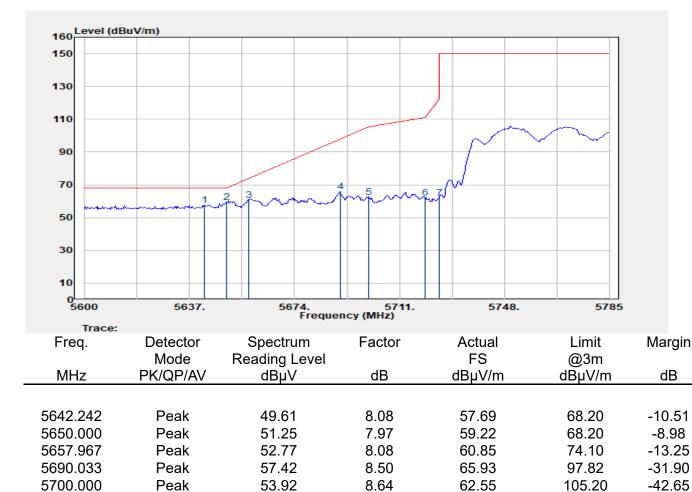
5720.000

5725.000

Peak

Peak

Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5775 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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53.04

53.09

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8.80

8.84

61.85

61.93

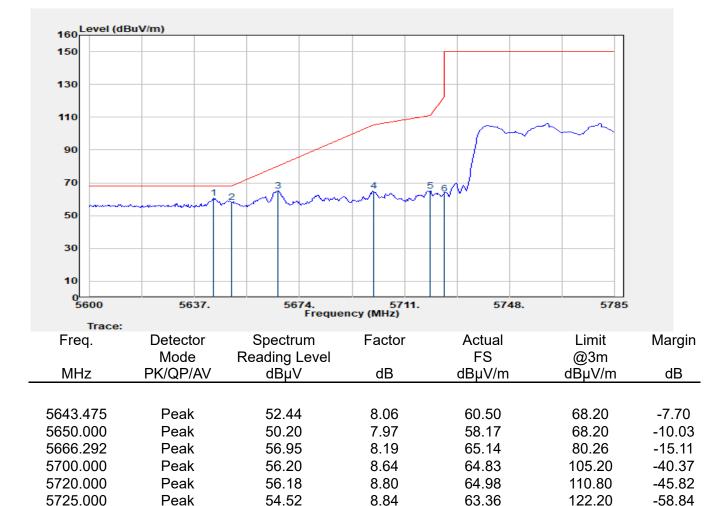
110.80

122.20

-48.95 -60.27



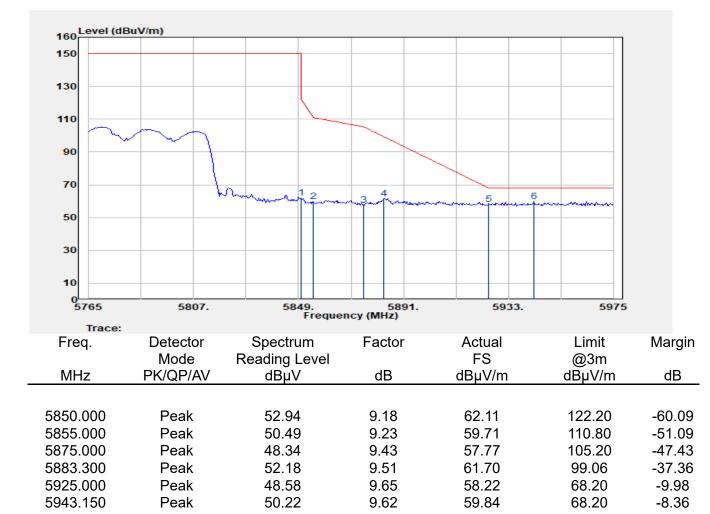
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5775 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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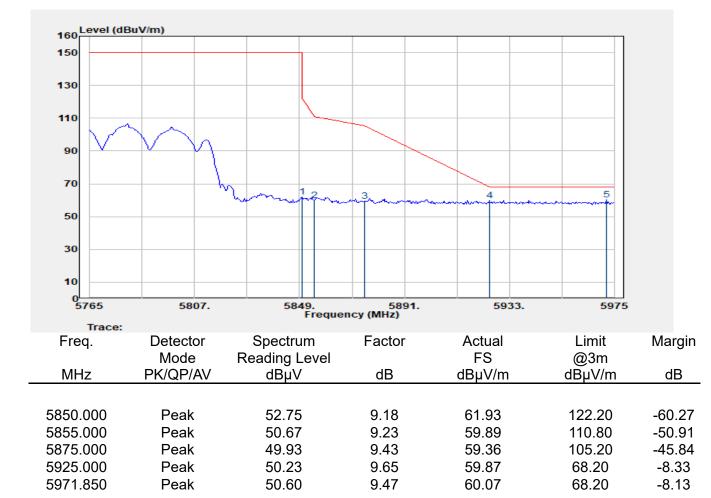
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5775 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-23
Test Frequency	:5775 MHz	Temp./Humi.	:19.5/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

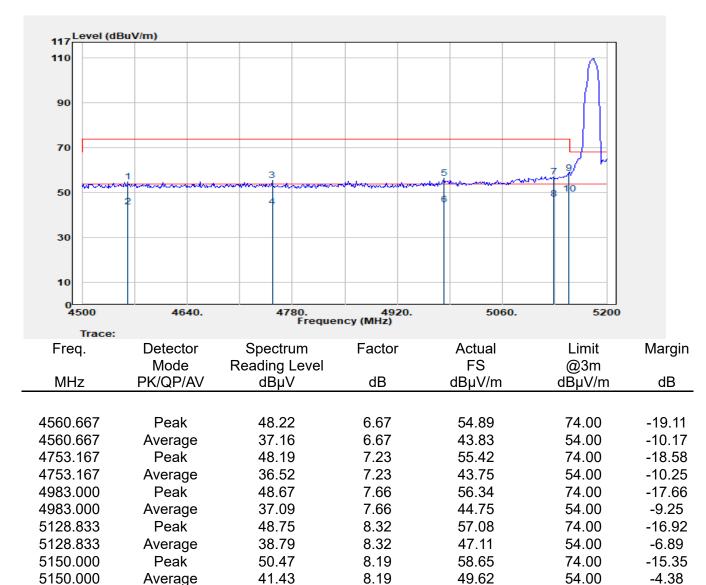


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## 11.6.2.2 FM4500F connect FM-TUBE antenna

Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5180 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



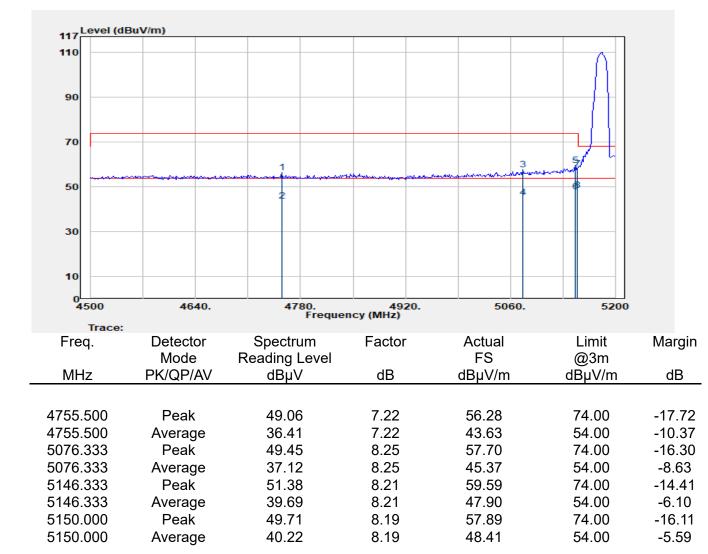
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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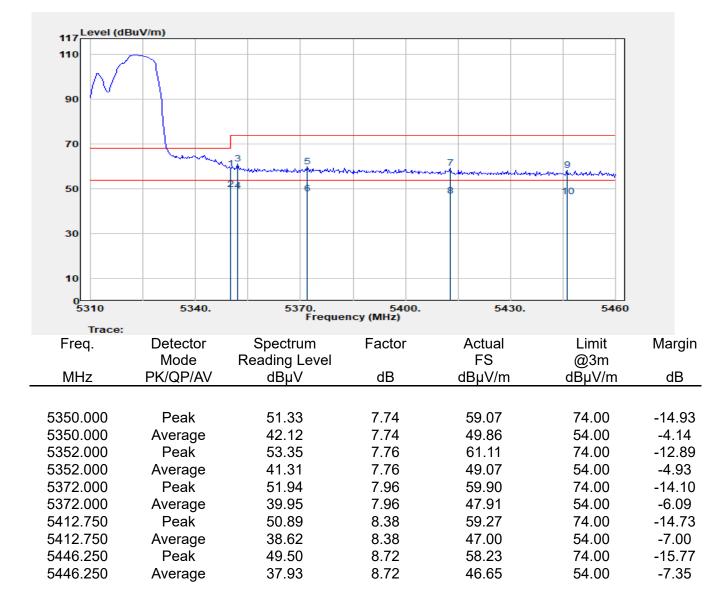
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5180 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5320 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

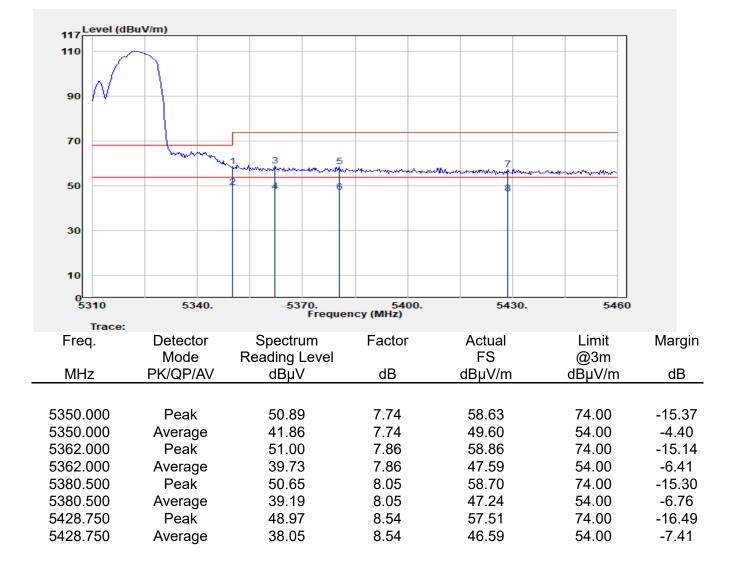


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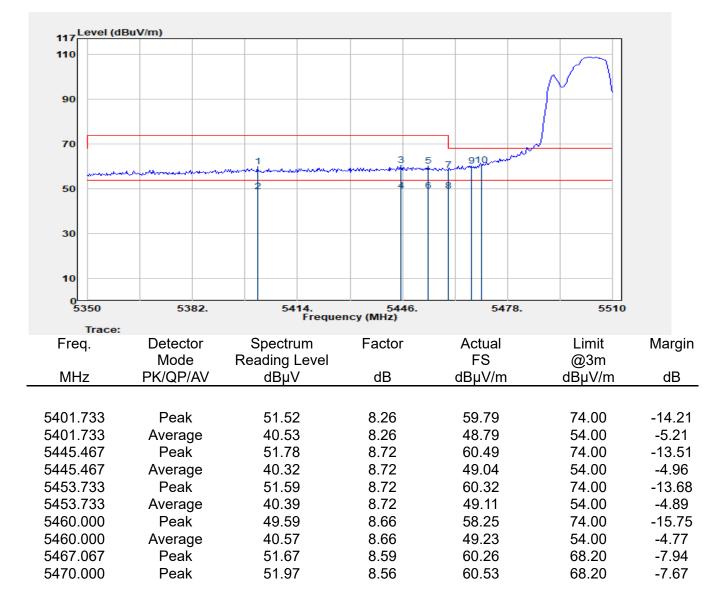
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5320 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5500 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

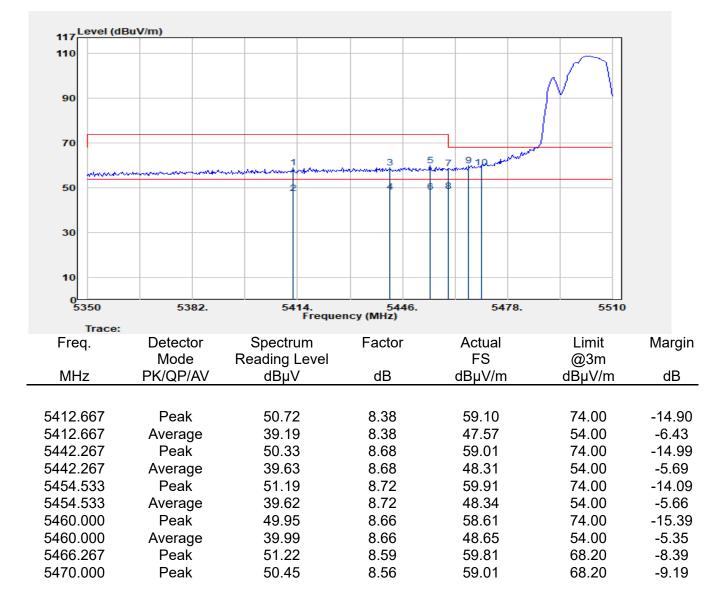


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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5500 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



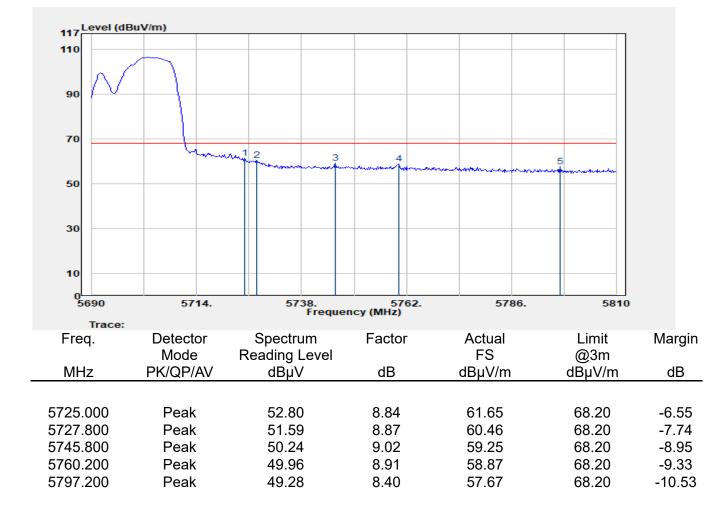
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5700 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

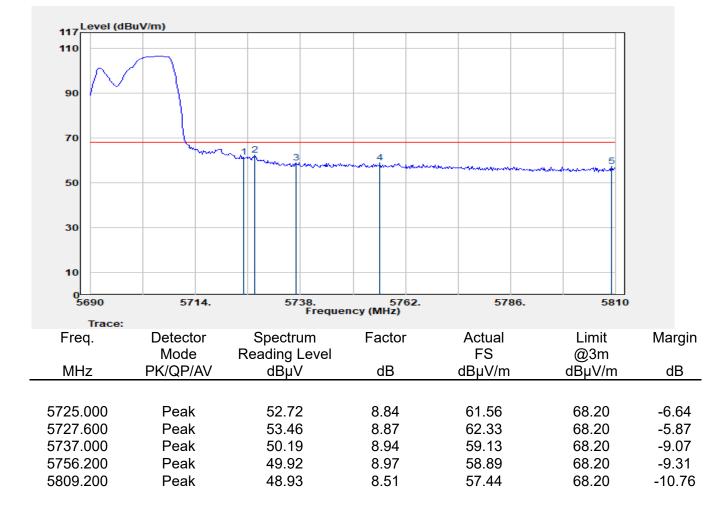


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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5700 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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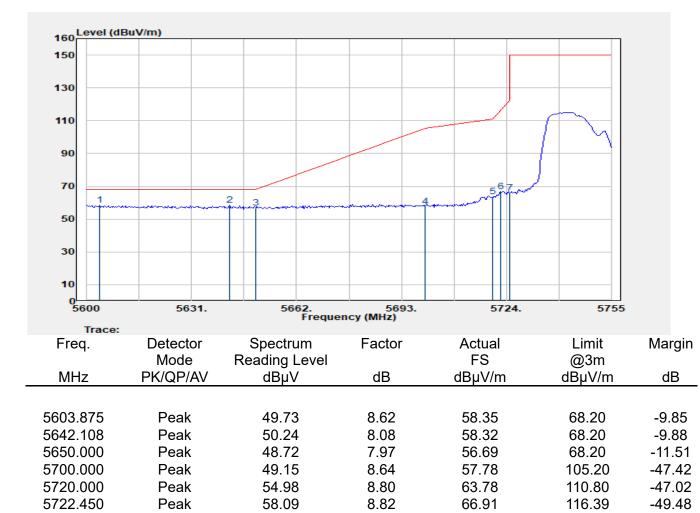
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5725.000

Peak

Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5745 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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

57.13

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8.84

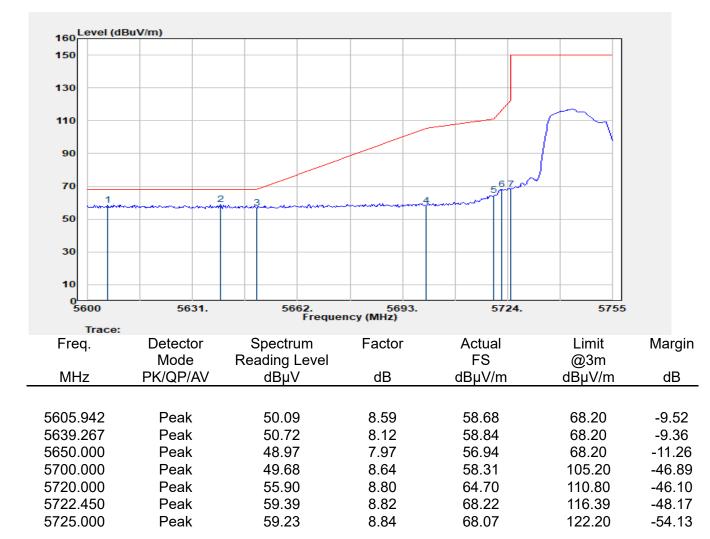
65.97

122.20

-56.23



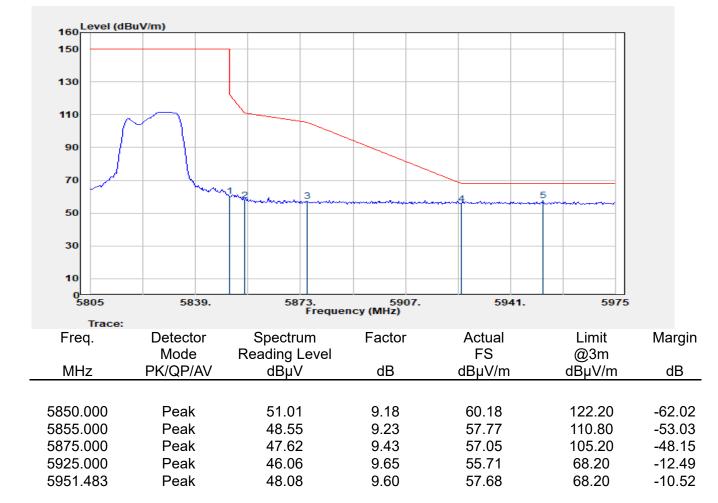
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5745 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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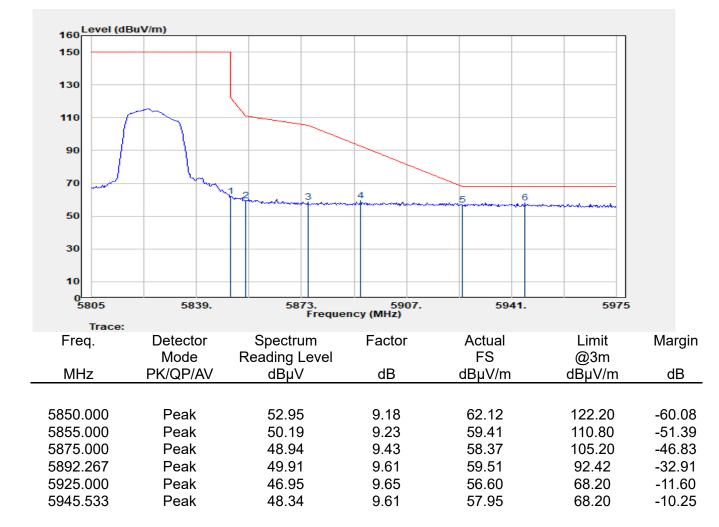
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5825 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n20	Test Date	:2022-02-21
Test Frequency	:5825 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

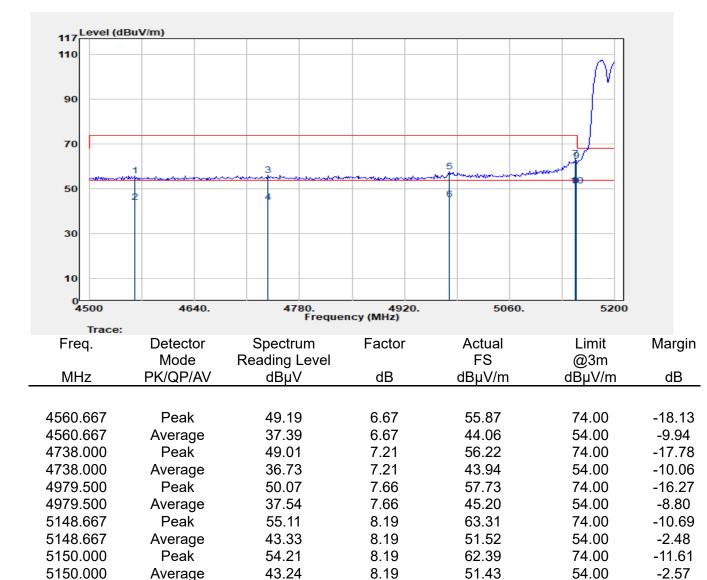


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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5190 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

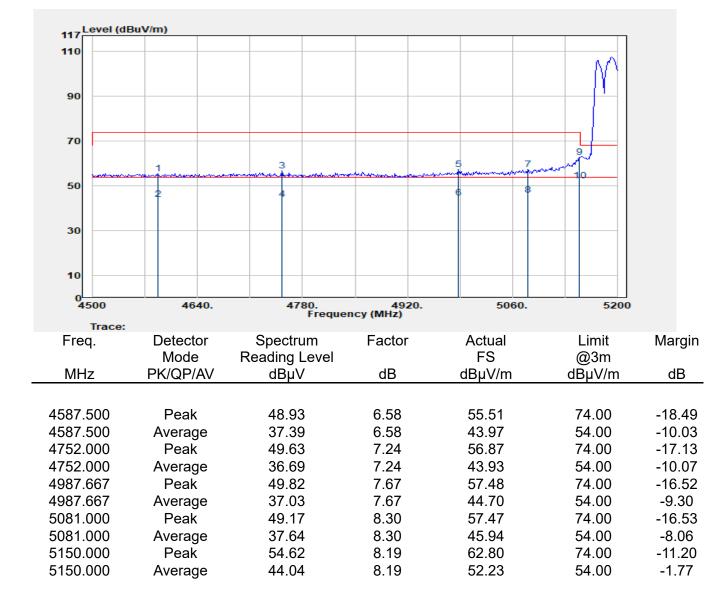


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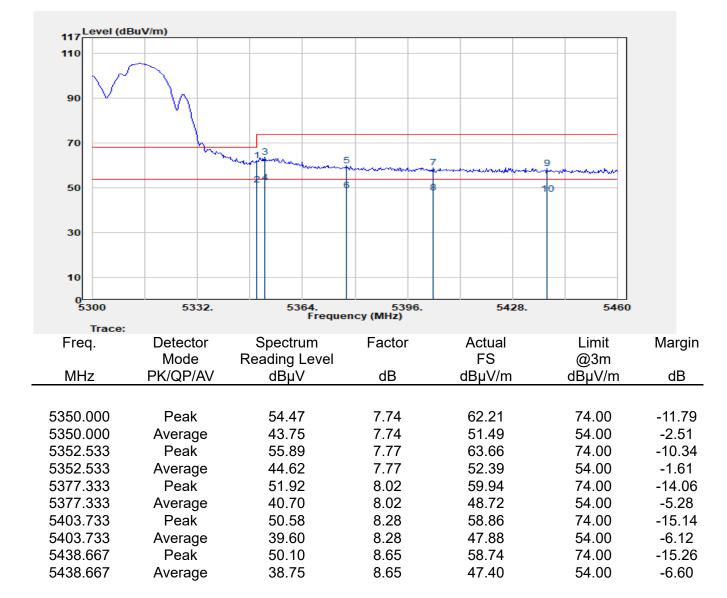
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5190 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5310 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

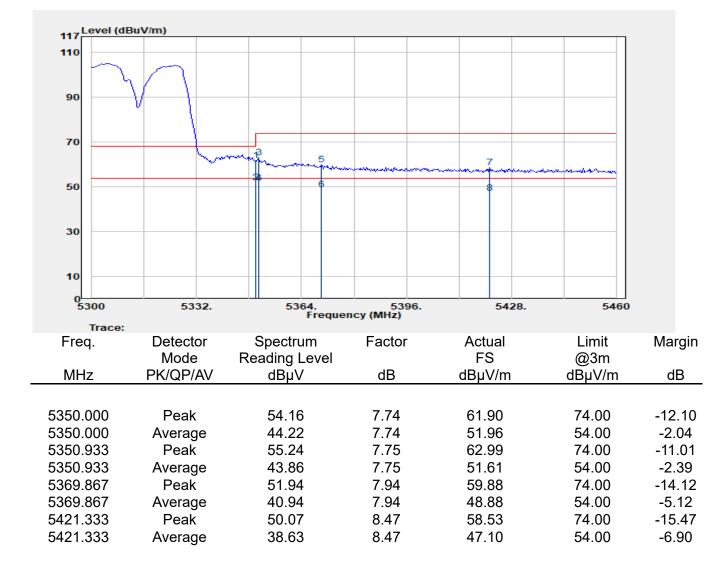


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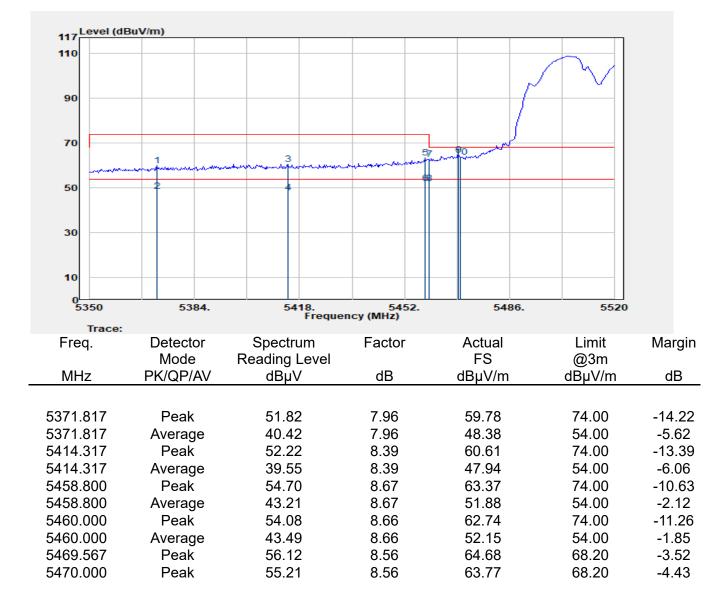
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5310 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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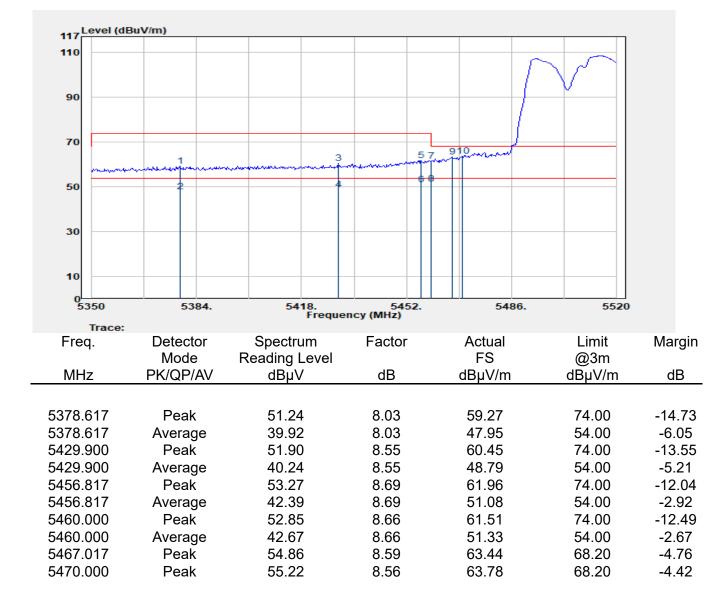
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5510 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5510 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



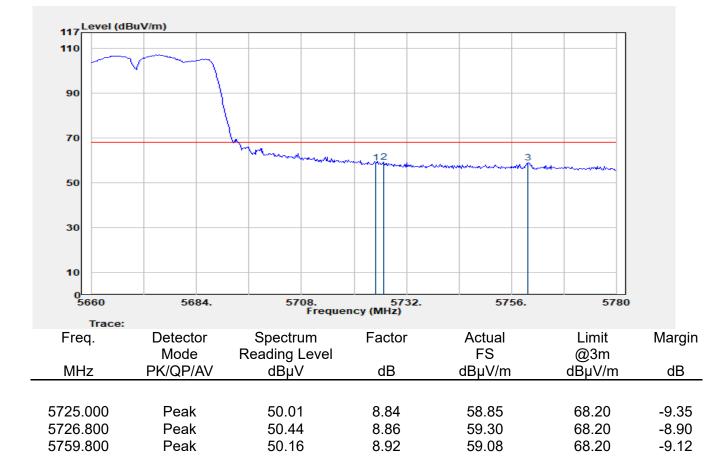
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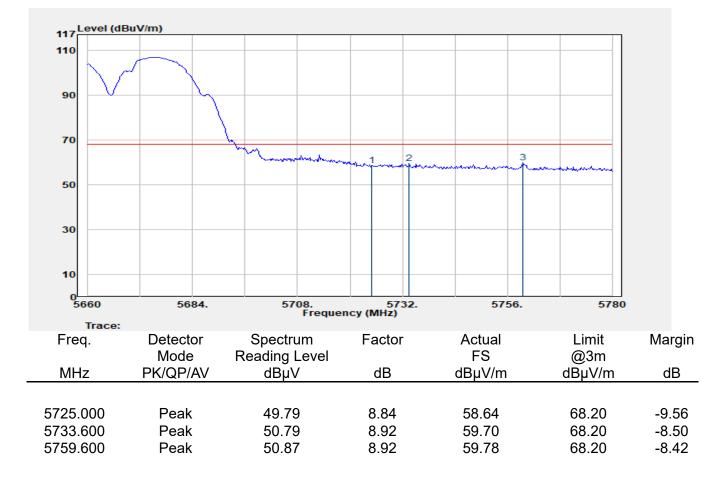
Report Number	:ER-2021-A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5670 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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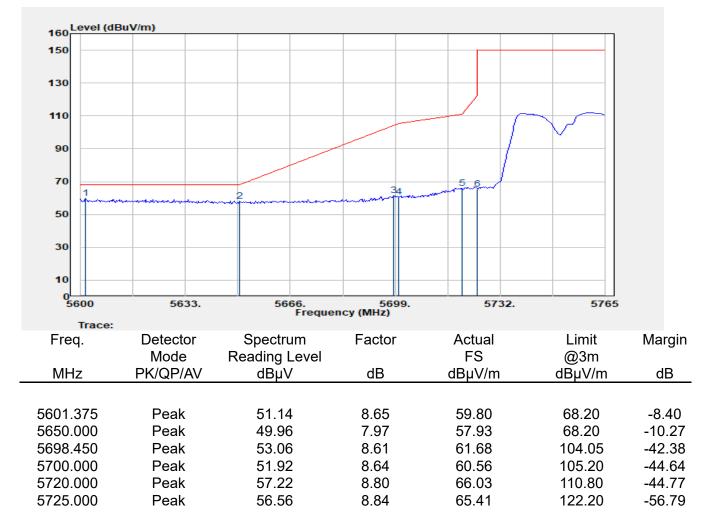
Report Number	:ER-2021-A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5670 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5755 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

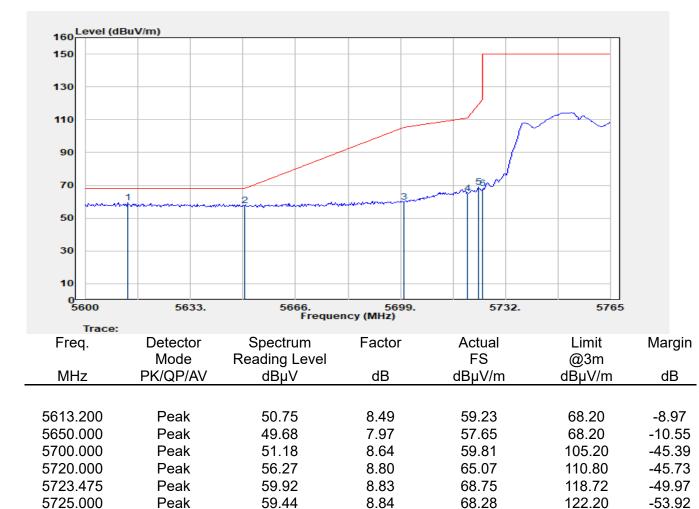


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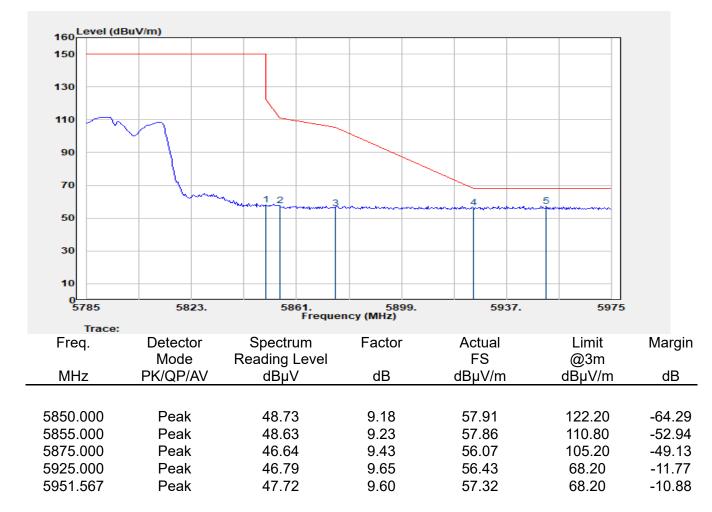
Report Number	:ER-2021-A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5755 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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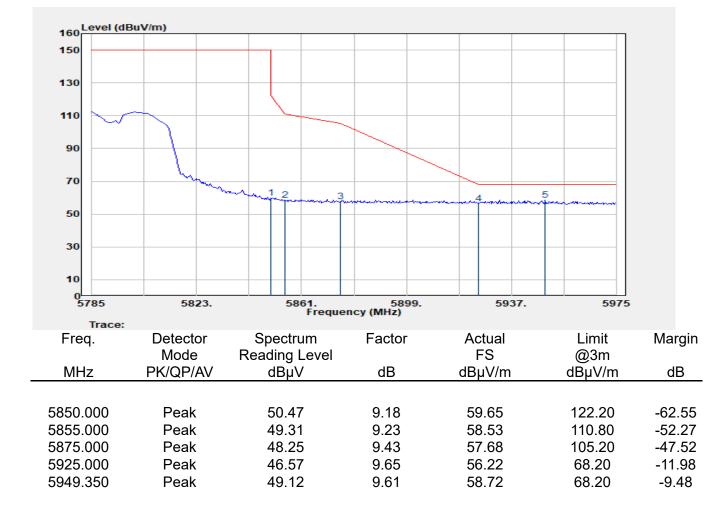
Report Number	:ER-2021-A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5795 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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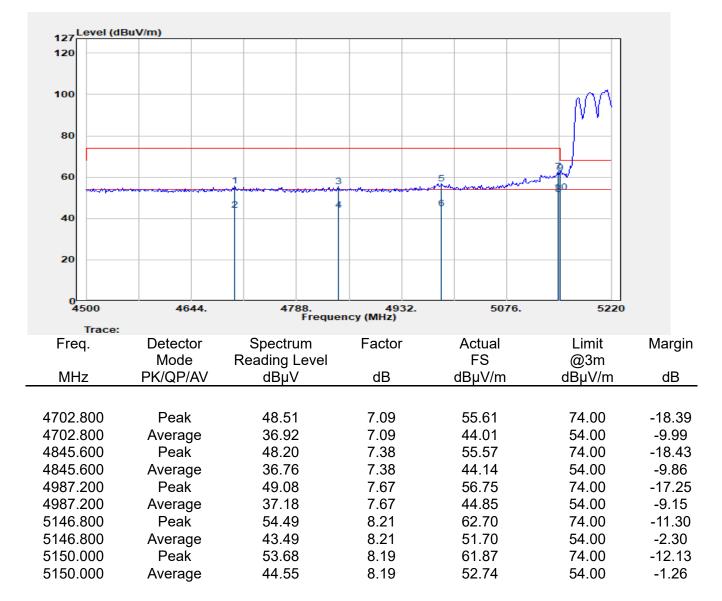
Report Number	:ER-2021-A0117	Test Site	:SAC 3
Operation Mode	:802.11n40	Test Date	:2022-02-21
Test Frequency	:5795 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH High	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5210 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



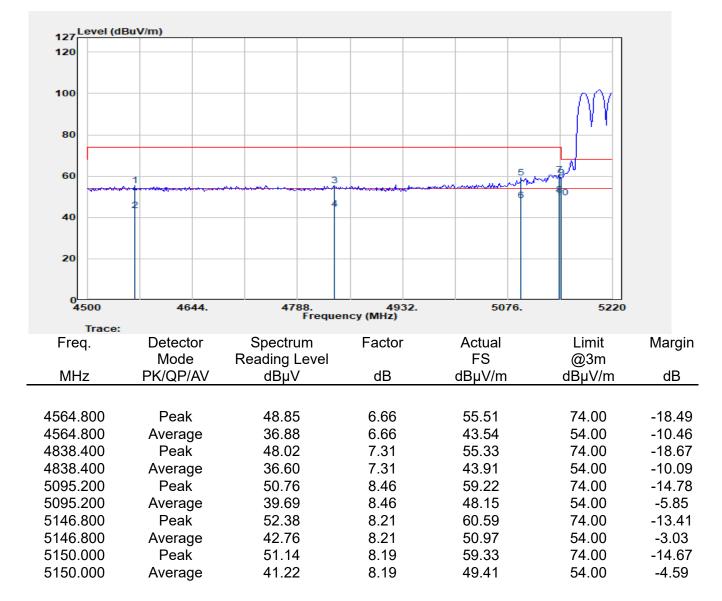
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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



Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5210 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



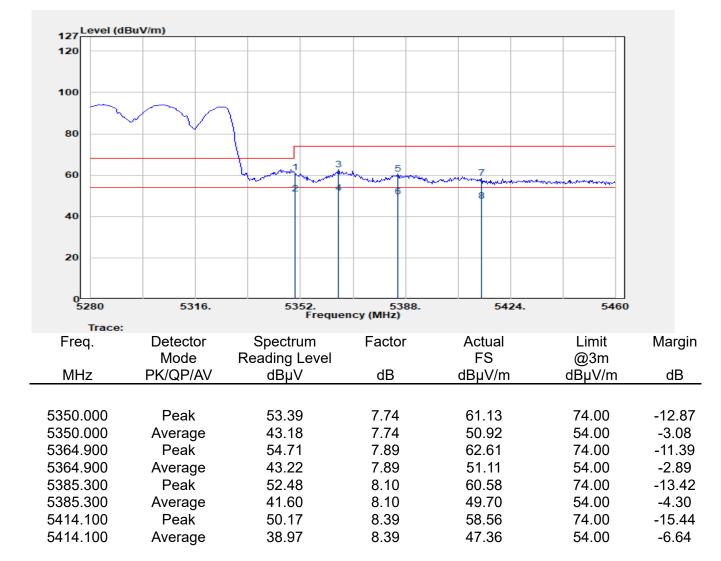
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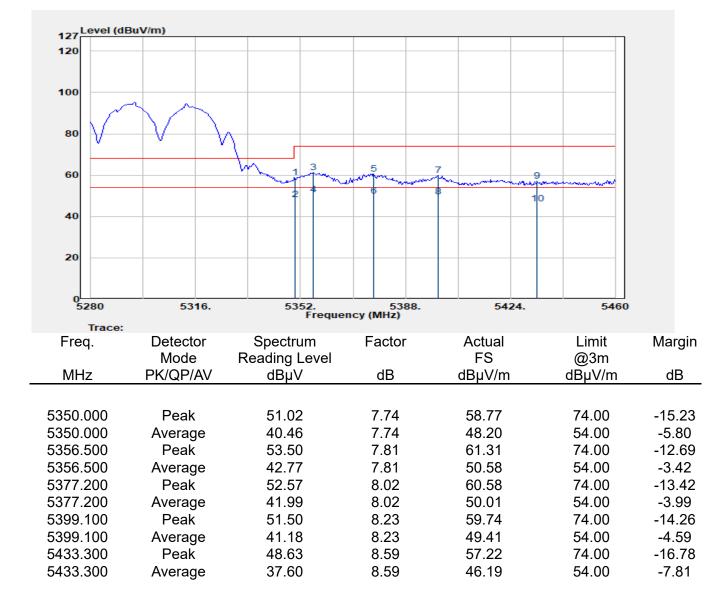
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5290 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5290 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



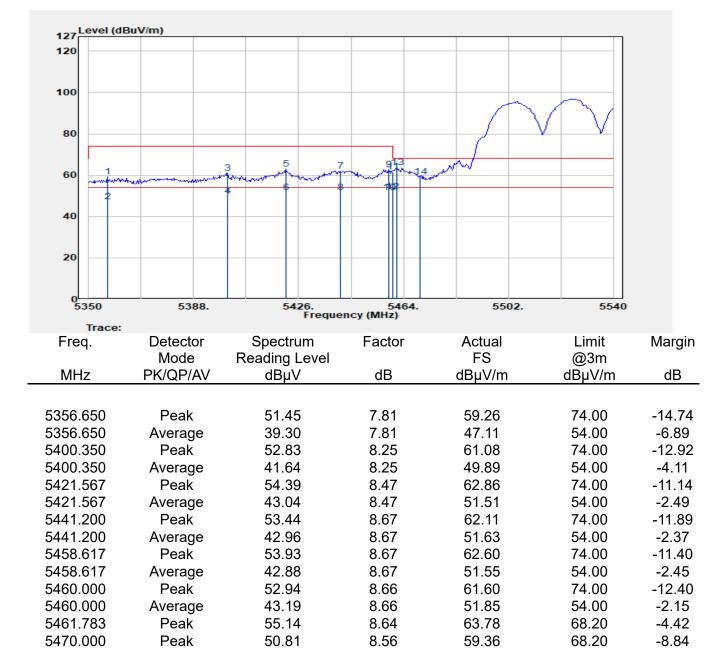
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台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw
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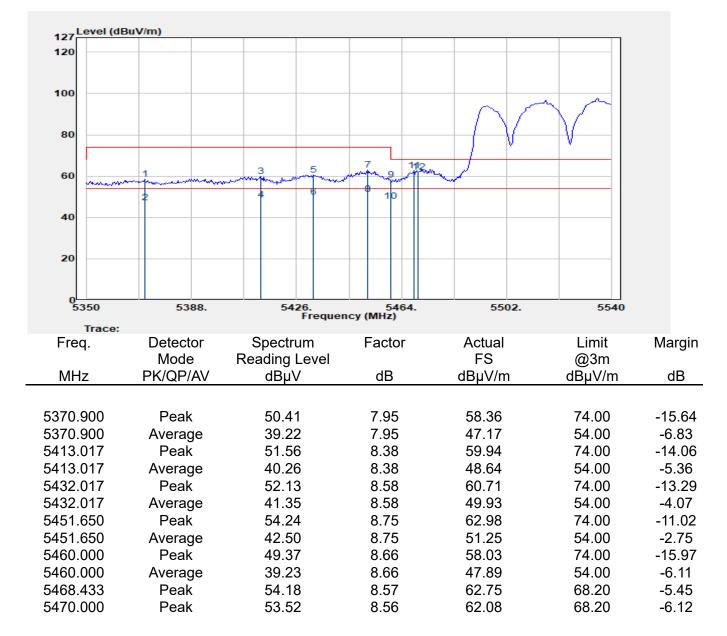
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5530 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5530 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu

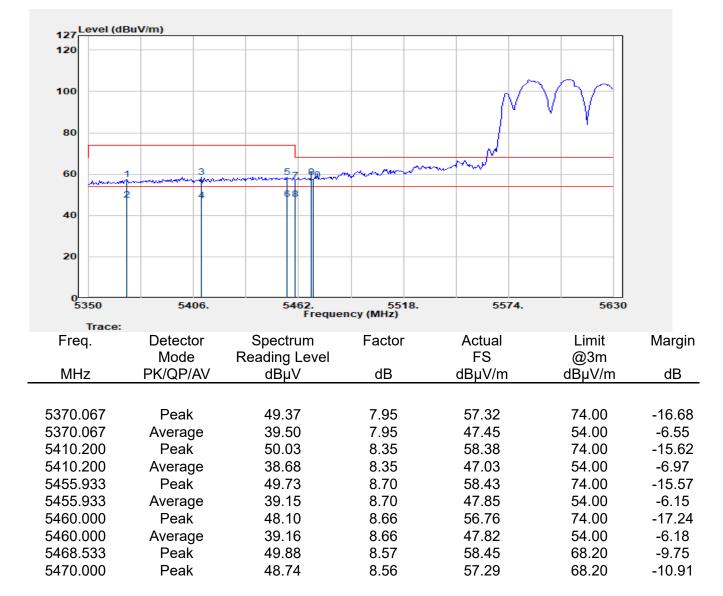


除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5610 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu

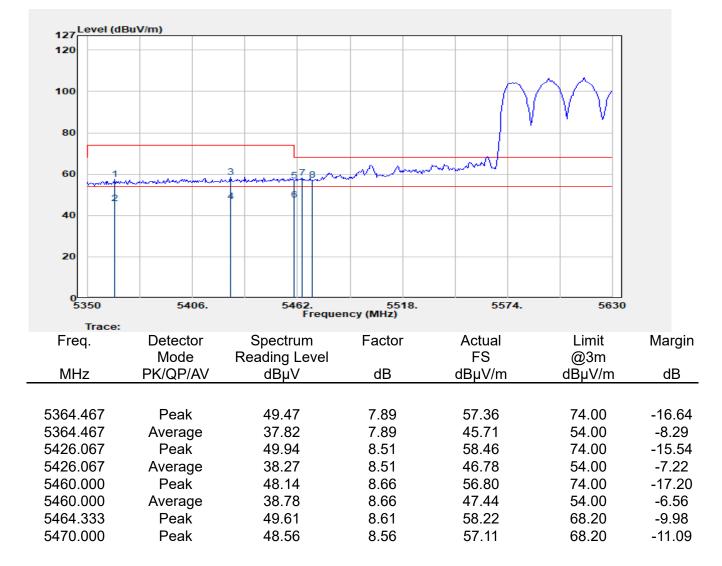


除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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			Member of SGS Group



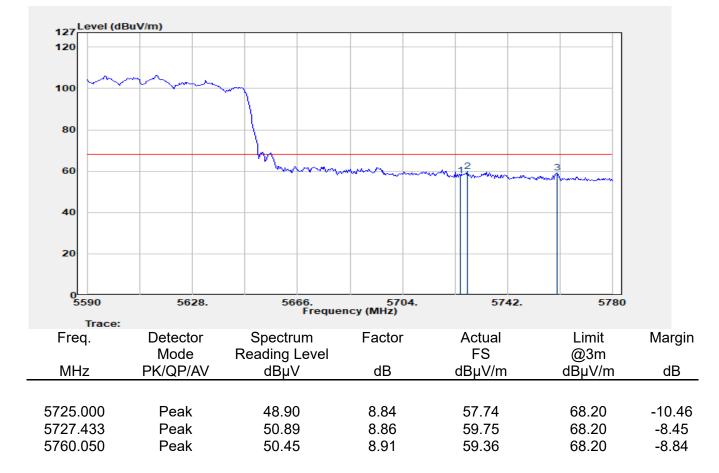
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5610 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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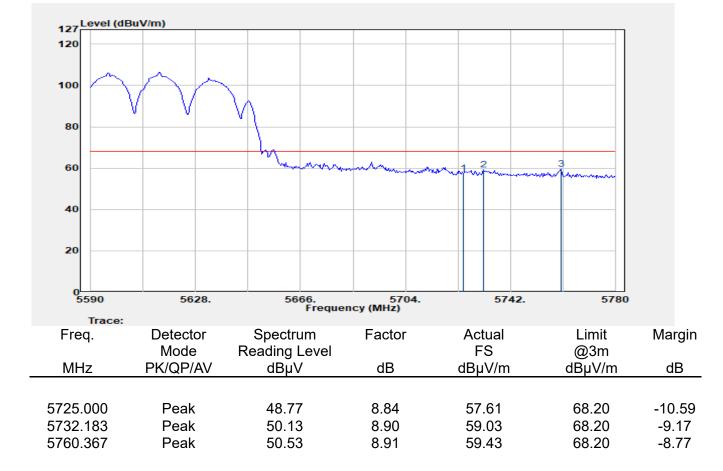
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5610 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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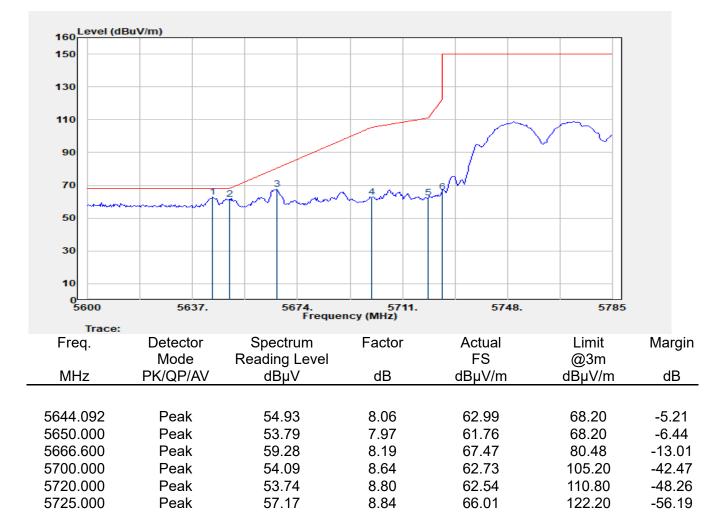
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5610 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Mid	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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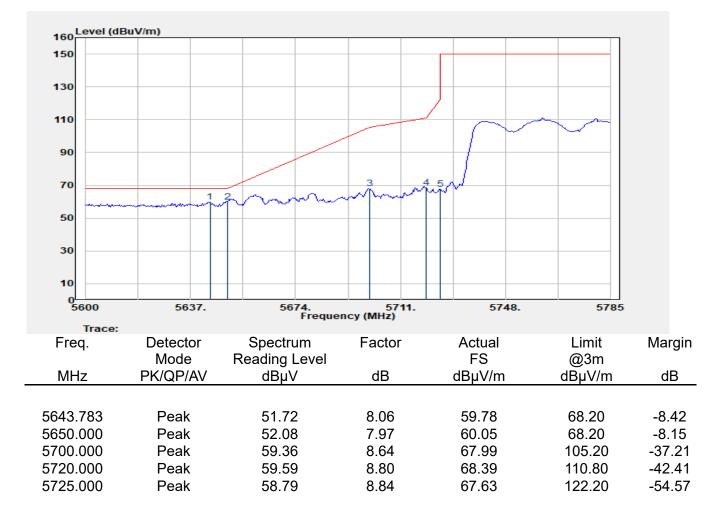
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5775 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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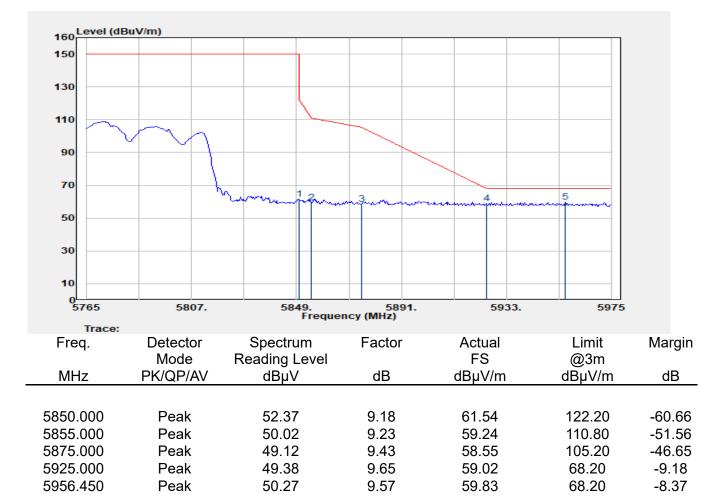
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5775 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



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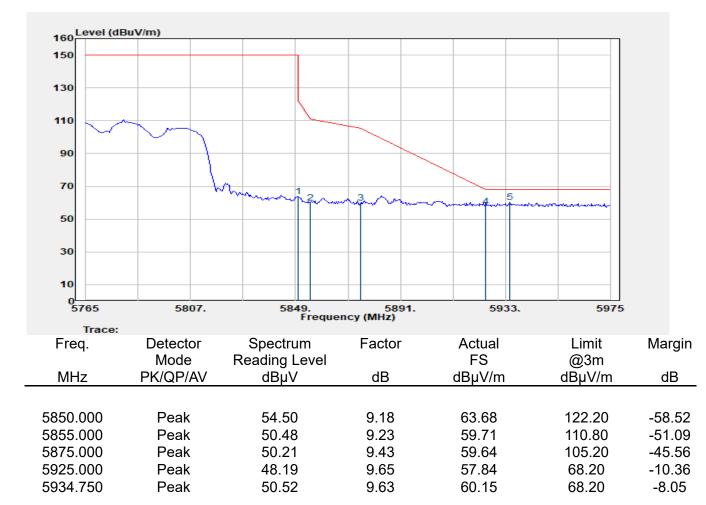
Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5775 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



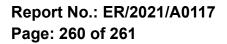
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Report Number	:ER/2021/A0117	Test Site	:SAC 3
Operation Mode	:802.11ac80	Test Date	:2022-02-21
Test Frequency	:5775 MHz	Temp./Humi.	:18.7/57
Test Mode	:Bandedge CH Low	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Jack Liu



除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。





# **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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



# **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 is designed with unique RF connector and no consideration of replacement. Please see EUT photo for details.

### ~ End of Report ~

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