

802.11ax-HE80 Power Spectral Density – Ant 3

Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)

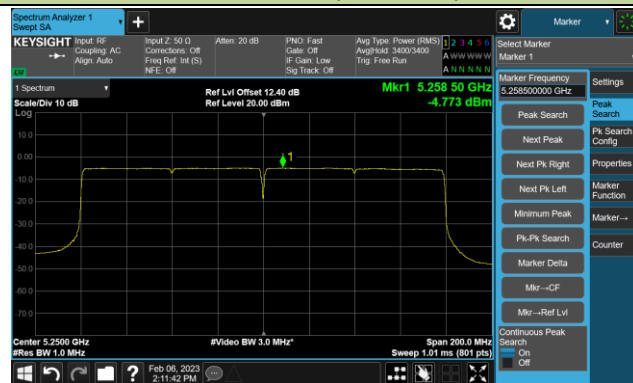


Channel 138 (5690MHz)

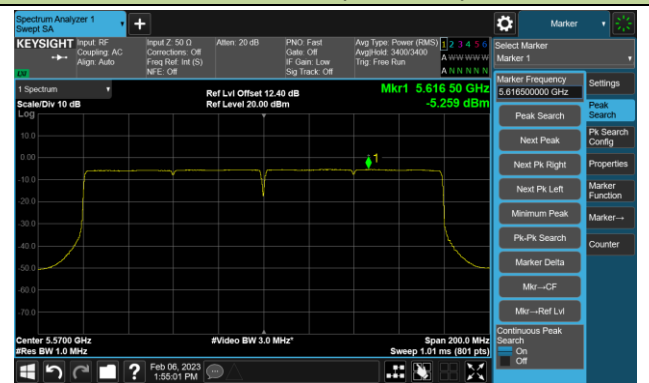


802.11ax-HE160 Power Spectral Density – Ant 3

Channel 50 (5250MHz)



Channel 114 (5570MHz)



802.11be-EHT20 Power Spectral Density – Ant 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



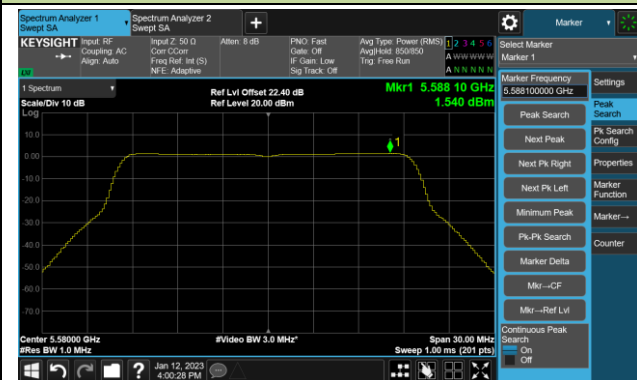
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)

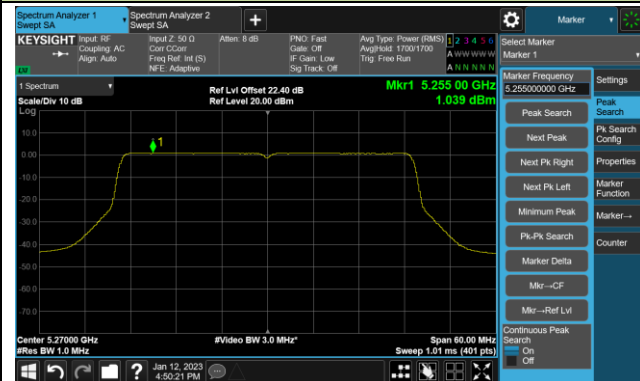


Channel 144 (5720MHz)



802.11be-EHT40 Power Spectral Density – Ant 3

Channel 54 (5270MHz)



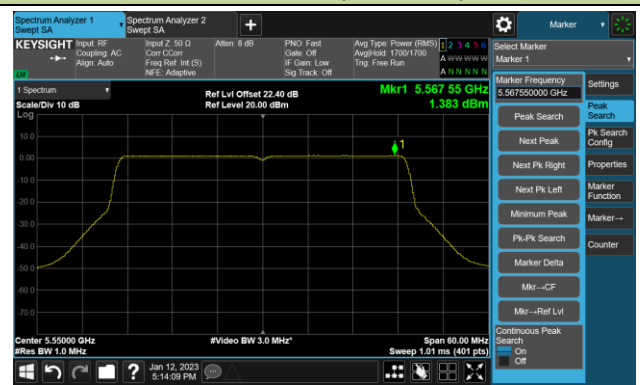
Channel 62 (5310MHz)



Channel 102 (5510MHz)



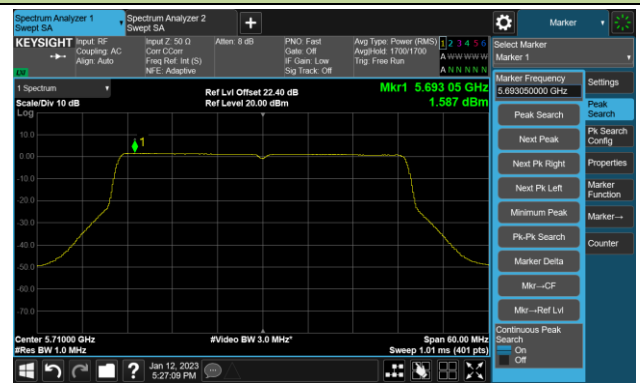
Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)



802.11be-EHT80 Power Spectral Density – Ant 3

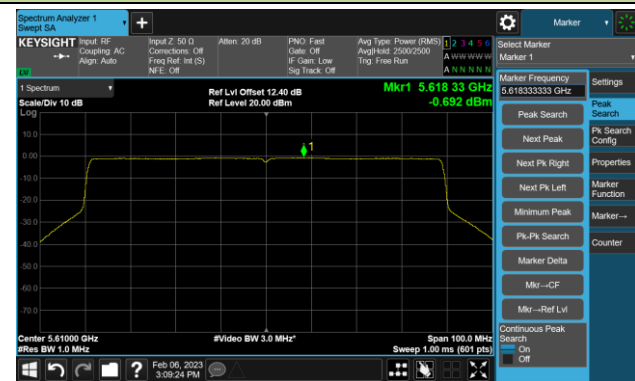
Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)

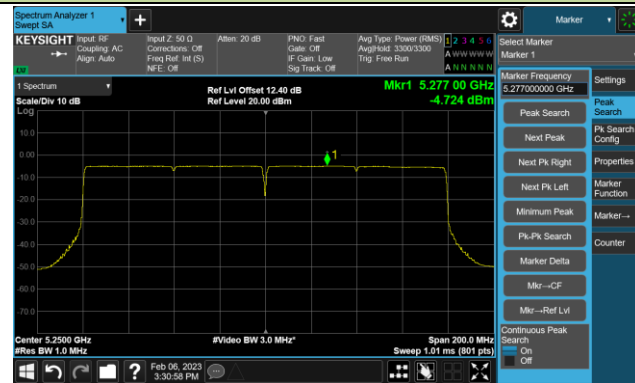


Channel 138 (5690MHz)

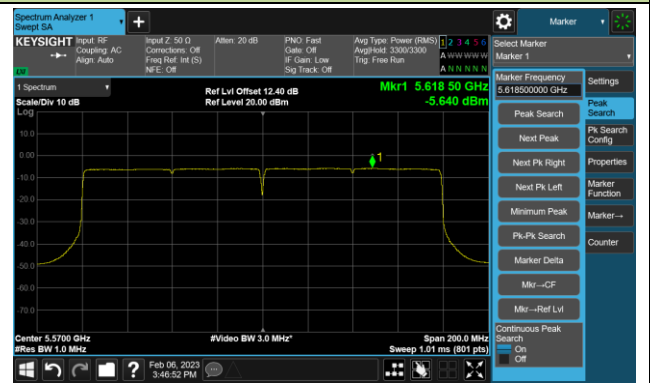


802.11be-EHT160 Power Spectral Density – Ant 3

Channel 50 (5250MHz)

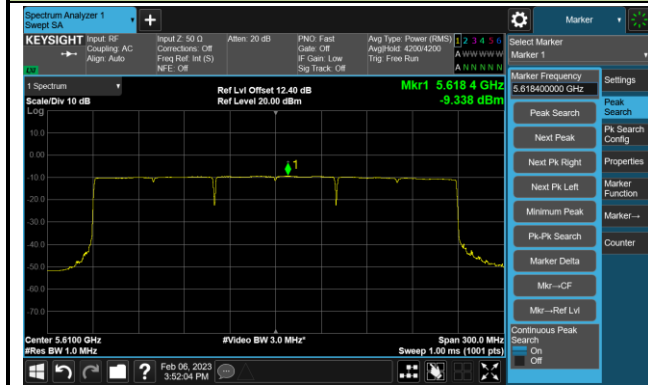


Channel 114 (5570MHz)



802.11be-EHT240 Power Spectral Density – Ant 3

Channel 130 (5650MHz)



Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-01-10 ~ 2023-02-03	Test Mode	N _{SS} =4
Test Item	(UNII-Band 1 & UNII-Band 2a & UNII-Band 2c)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)
				Ant 0	Ant 1	Ant 2	Ant 3			
11ax-HE20	MCS0	52	5260	5.019	4.341	4.506	4.681	96.31	10.828	≤ 11.00
11ax-HE20	MCS0	60	5300	5.292	4.208	4.277	4.337	96.31	10.736	≤ 11.00
11ax-HE20	MCS0	64	5320	5.267	4.042	4.270	4.386	96.31	10.701	≤ 11.00
11ax-HE20	MCS0	100	5500	4.880	4.583	4.095	4.520	96.31	10.712	≤ 11.00
11ax-HE20	MCS0	116	5580	4.811	5.081	3.799	4.431	96.31	10.741	≤ 11.00
11ax-HE20	MCS0	140	5700	4.668	4.404	3.759	4.568	96.31	10.548	≤ 11.00
11ax-HE20	MCS0	144	5720	5.000	4.592	4.348	4.635	96.31	10.834	≤ 11.00
11be-EHT20	MCS0	52	5260	5.119	4.427	4.277	4.553	95.85	10.811	≤ 11.00
11be-EHT20	MCS0	60	5300	5.338	4.442	4.396	4.361	95.85	10.859	≤ 11.00
11be-EHT20	MCS0	64	5320	5.385	3.956	3.815	4.157	95.85	10.580	≤ 11.00
11be-EHT20	MCS0	100	5500	4.914	4.792	4.282	4.189	95.85	10.760	≤ 11.00
11be-EHT20	MCS0	116	5580	4.433	4.605	3.779	4.365	95.85	10.511	≤ 11.00
11be-EHT20	MCS0	140	5700	4.775	4.480	3.954	4.471	95.85	10.635	≤ 11.00
11be-EHT20	MCS0	144	5720	4.670	4.415	3.874	4.746	95.85	10.644	≤ 11.00

Note: When EUT duty cycle < 98%, the total PSD = $10 \cdot \log \{ 10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)} \} + 10 \cdot \log (1/\text{Duty cycle})$.

When EUT duty cycle ≥ 98%, the total PSD = $10 \cdot \log \{ 10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)} \}$.

802.11ax-HE20 Power Spectral Density – Ant 0

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



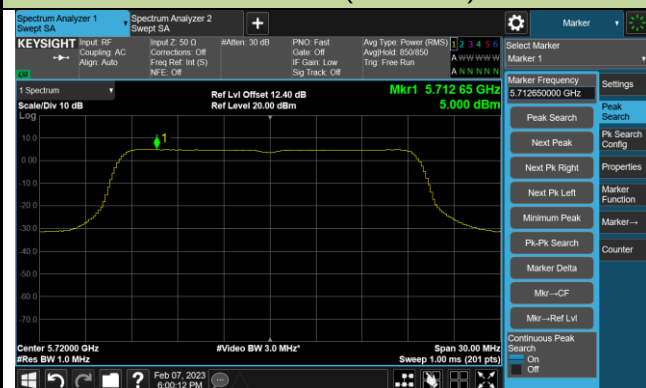
Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



802.11be-EHT20 Power Spectral Density – Ant 0

Channel 52 (5260MHz)



Channel 60 (5300MHz)



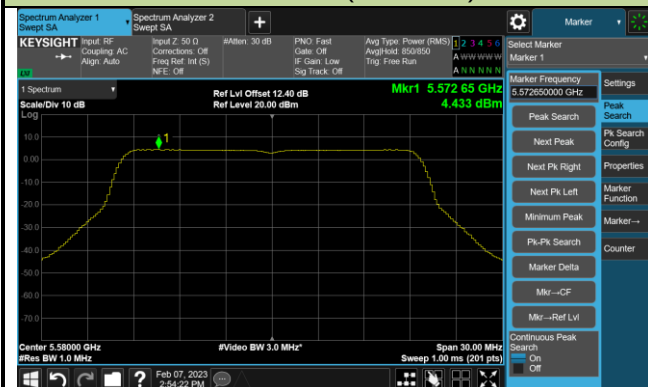
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



802.11ax-HE20 Power Spectral Density – Ant 1

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



802.11be-EHT20 Power Spectral Density – Ant 1

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)

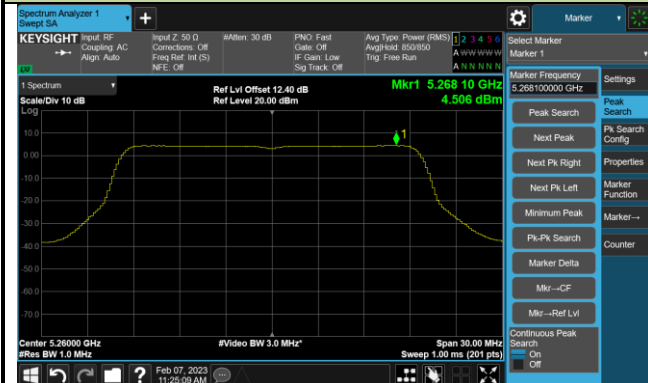


Channel 144 (5720MHz)



802.11ax-HE20 Power Spectral Density – Ant 2

Channel 52 (5260MHz)



Channel 60 (5300MHz)



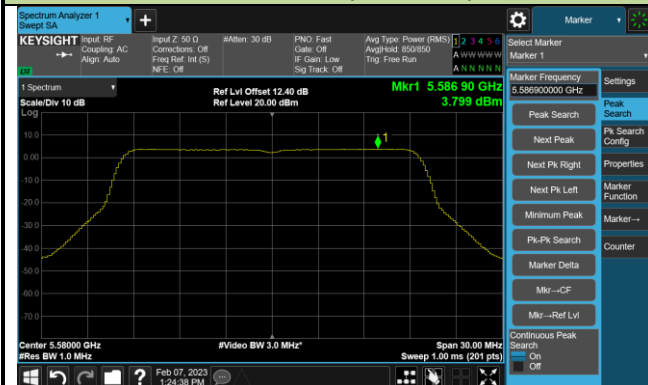
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



802.11be-EHT20 Power Spectral Density – Ant 2

Channel 52 (5260MHz)



Channel 60 (5300MHz)



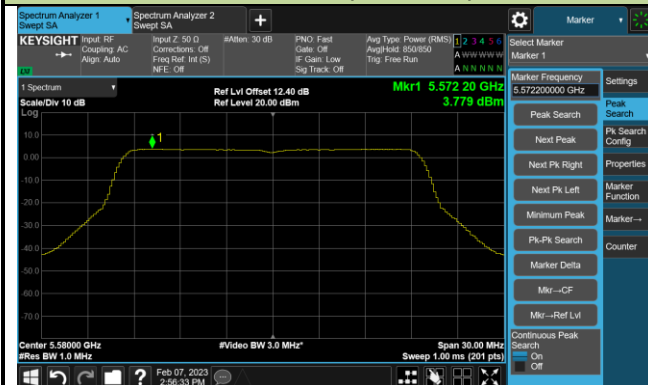
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)

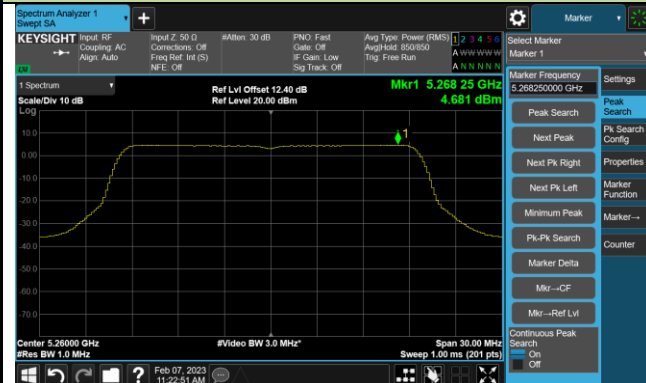


Channel 144 (5720MHz)



802.11ax-HE20 Power Spectral Density – Ant 3

Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)

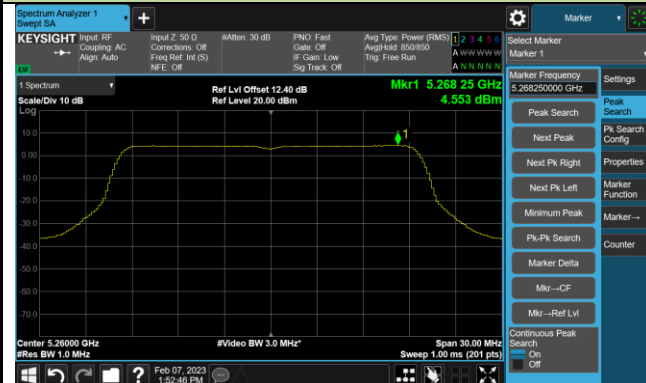


Channel 144 (5720MHz)



802.11be-EHT20 Power Spectral Density – Ant 3

Channel 52 (5260MHz)



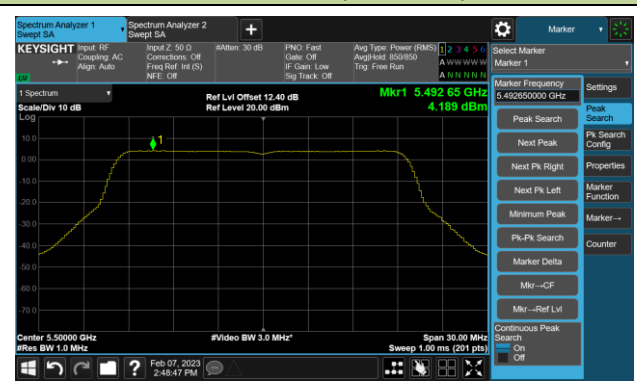
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



A.5 Radiated Spurious Emission Test Result

Test Mode – N_{ss}= 1

Test Site	WZ-AC1	Test Engineer	Edith Yu
Test Date	2023-01-19 ~ 01-31	Test Mode	802.11a – Channel 52
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	8412.0	39.7	8.6	48.3	74.0	-25.7	Peak	Horizontal
*	9721.0	36.2	12.7	48.9	68.2	-19.3	Peak	Horizontal
*	10537.0	35.9	13.3	49.2	68.2	-19.0	Peak	Horizontal
	11480.5	36.3	13.0	49.3	74.0	-24.7	Peak	Horizontal
	7536.5	37.6	8.2	45.8	74.0	-28.2	Peak	Vertical
*	8913.5	36.6	10.3	46.9	68.2	-21.3	Peak	Vertical
*	9899.5	36.3	12.7	49.0	68.2	-19.2	Peak	Vertical
	11072.5	36.9	13.3	50.2	74.0	-23.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Test Site	WZ-AC1	Test Engineer	Edith Yu
Test Date	2023-01-19 ~ 01-31	Test Mode	802.11a – Channel 60
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	8480.0	38.7	8.8	47.5	74.0	-26.5	Peak	Horizontal
*	10596.5	37.2	13.6	50.8	68.2	-17.4	Peak	Horizontal
	11565.5	36.5	12.7	49.2	74.0	-24.8	Peak	Horizontal
*	14464.0	35.7	15.1	50.8	68.2	-17.4	Peak	Horizontal
*	7196.5	39.1	8.1	47.2	68.2	-21.0	Peak	Vertical
	8038.0	38.0	8.8	46.8	74.0	-27.2	Peak	Vertical
*	9695.5	35.3	12.5	47.8	68.2	-20.4	Peak	Vertical
	10766.5	36.8	13.3	50.1	74.0	-23.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Test Site	WZ-AC1	Test Engineer	Edith Yu
Test Date	2023-01-19 ~ 01-31	Test Mode	802.11a – Channel 64
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
*	9848.5	35.2	12.6	47.8	68.2	-20.4	Peak	Horizontal
	10639.0	36.6	13.5	50.1	74.0	-23.9	Peak	Horizontal
*	13223.0	36.1	13.0	49.1	68.2	-19.1	Peak	Horizontal
	14489.5	36.3	15.2	51.5	74.0	-22.5	Peak	Horizontal
	9347.0	35.7	11.9	47.6	74.0	-26.4	Peak	Vertical
*	10095.0	35.8	12.8	48.6	68.2	-19.6	Peak	Vertical
	11225.5	37.6	12.4	50.0	74.0	-24.0	Peak	Vertical
*	14311.0	35.5	14.6	50.1	68.2	-18.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Test Site	WZ-AC1	Test Engineer	Edith Yu
Test Date	2023-01-19 ~ 01-31	Test Mode	802.11a – Channel 100
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
*	9772.0	34.8	12.6	47.4	68.2	-20.8	Peak	Horizontal
	11004.5	39.8	13.5	53.3	74.0	-20.7	Peak	Horizontal
	11004.5	38.9	13.5	52.4	54.0	-1.6	Average	Horizontal
	11548.5	35.6	13.0	48.6	74.0	-25.4	Peak	Horizontal
*	13597.0	35.7	13.5	49.2	68.2	-19.0	Peak	Horizontal
	8038.0	37.1	8.8	45.9	74.0	-28.1	Peak	Vertical
*	10061.0	36.1	12.6	48.7	68.2	-19.5	Peak	Vertical
	10996.0	39.2	13.6	52.8	74.0	-21.2	Peak	Vertical
	10996.0	40.0	13.6	53.6	54.0	-0.4	Average	Vertical
*	13622.5	36.4	13.9	50.3	68.2	-17.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Test Site	WZ-AC1	Test Engineer	Edith Yu
Test Date	2023-01-19 ~ 01-31	Test Mode	802.11a – Channel 116
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	8446.0	37.0	8.7	45.7	74.0	-28.3	Peak	Horizontal
*	9806.0	35.6	12.9	48.5	68.2	-19.7	Peak	Horizontal
	11157.5	41.3	13.1	54.4	74.0	-19.6	Peak	Horizontal
	11157.5	40.7	13.1	53.8	54.0	-0.2	Average	Horizontal
*	14175.0	36.1	14.6	50.7	68.2	-17.5	Peak	Horizontal
	9381.0	35.8	12.0	47.8	74.0	-26.2	Peak	Vertical
*	10163.0	35.1	12.9	48.0	68.2	-20.2	Peak	Vertical
	11157.5	39.9	13.1	53.0	74.0	-21.0	Peak	Vertical
	11157.5	39.4	13.1	52.5	54.0	-1.5	Average	Vertical
*	14073.0	36.1	14.6	50.7	68.2	-17.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Test Site	WZ-AC1	Test Engineer	Edith Yu
Test Date	2023-01-19 ~ 01-31	Test Mode	802.11a – Channel 140
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9347.0	35.1	11.9	47.0	74.0	-27.0	Peak	Horizontal
*	10129.0	36.4	13.0	49.4	68.2	-18.8	Peak	Horizontal
	11404.0	40.0	13.0	53.0	74.0	-21.0	Peak	Horizontal
	11404.0	38.2	13.0	51.2	54.0	-2.8	Average	Horizontal
*	14260.0	35.6	14.7	50.3	68.2	-17.9	Peak	Horizontal
	9415.0	35.9	11.8	47.7	74.0	-26.3	Peak	Vertical
*	10384.0	36.3	13.3	49.6	68.2	-18.6	Peak	Vertical
	11404.0	37.2	13.0	50.2	74.0	-23.8	Peak	Vertical
*	14455.5	35.7	15.0	50.7	68.2	-17.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Test Site	WZ-AC1	Test Engineer	Edith Yu
Test Date	2023-01-19 ~ 01-31	Test Mode	802.11a – Channel 144
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9134.5	35.9	11.1	47.0	74.0	-27.0	Peak	Horizontal
*	10197.0	35.7	13.0	48.7	68.2	-19.5	Peak	Horizontal
	11438.0	39.4	13.0	52.4	74.0	-21.6	Peak	Horizontal
	11438.0	39.0	13.0	52.0	54.0	-2.0	Average	Horizontal
*	13197.5	35.5	12.9	48.4	68.2	-19.8	Peak	Horizontal
	8284.5	36.3	8.3	44.6	74.0	-29.4	Peak	Vertical
*	9823.0	35.0	13.0	48.0	68.2	-20.2	Peak	Vertical
	11438.0	37.6	13.0	50.6	74.0	-23.4	Peak	Vertical
*	13758.5	35.6	13.9	49.5	68.2	-18.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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