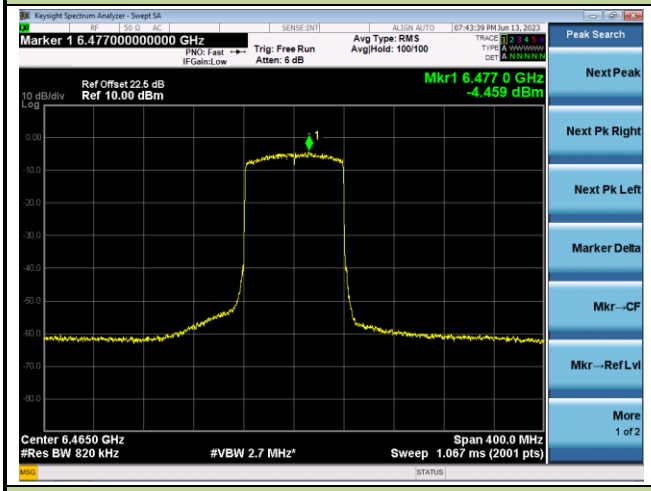
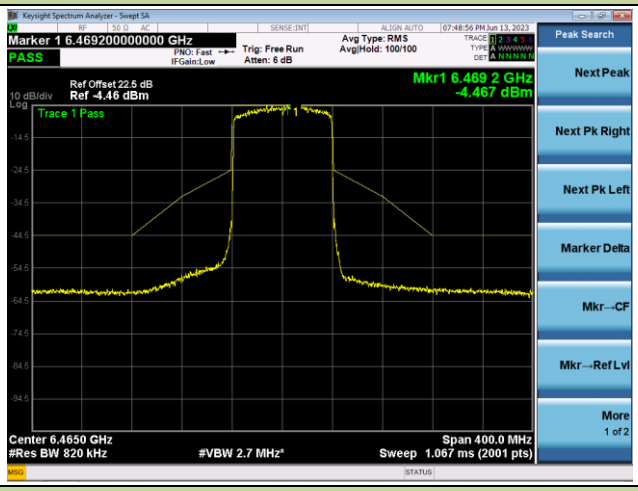
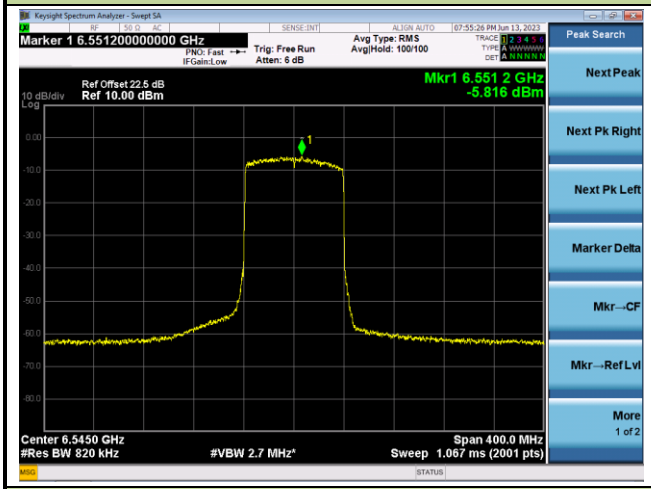
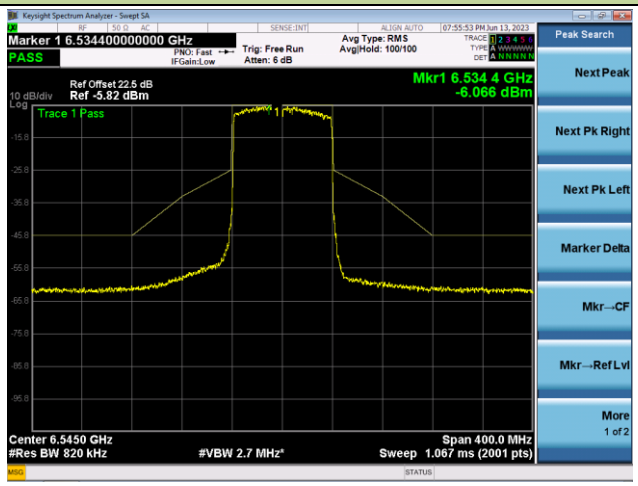
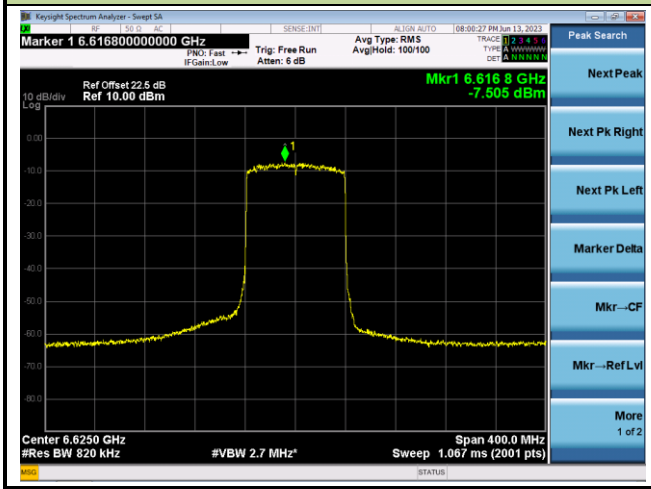
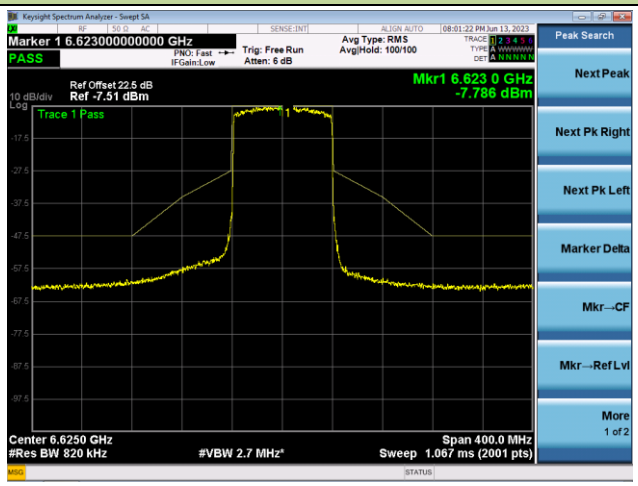
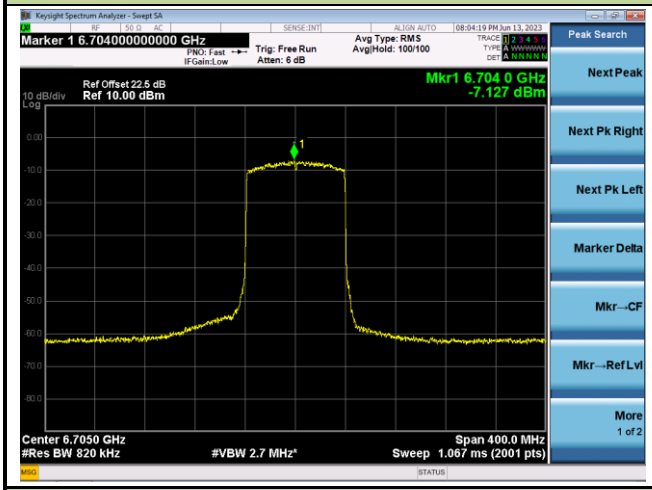
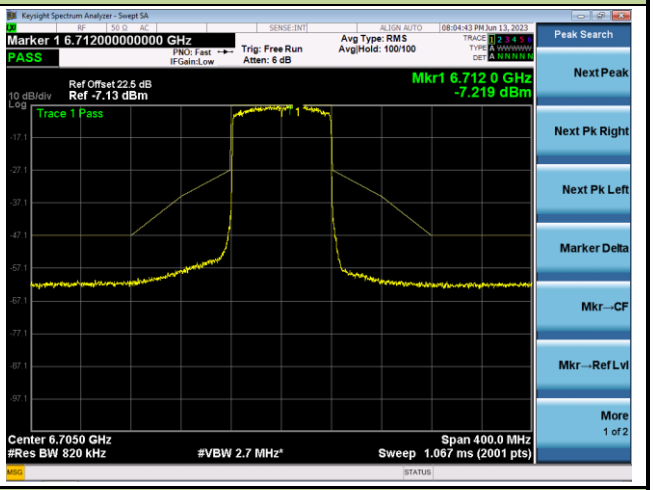
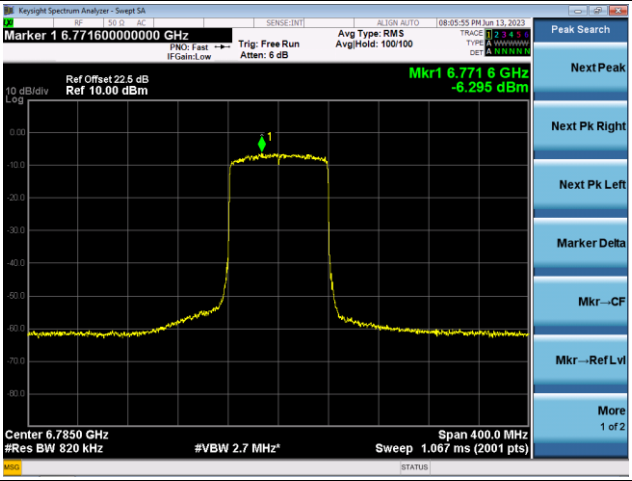
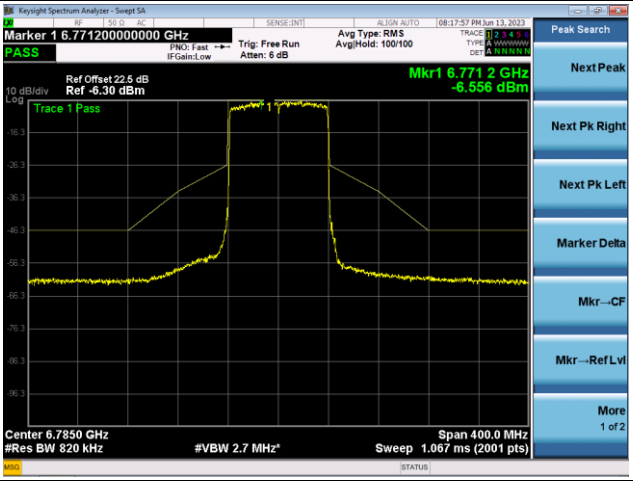
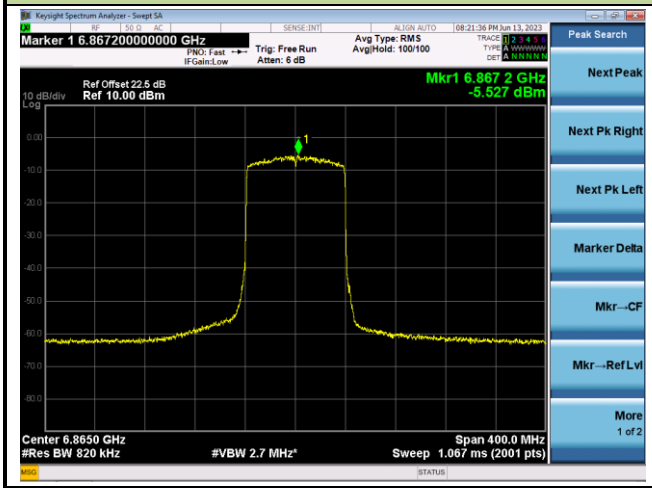
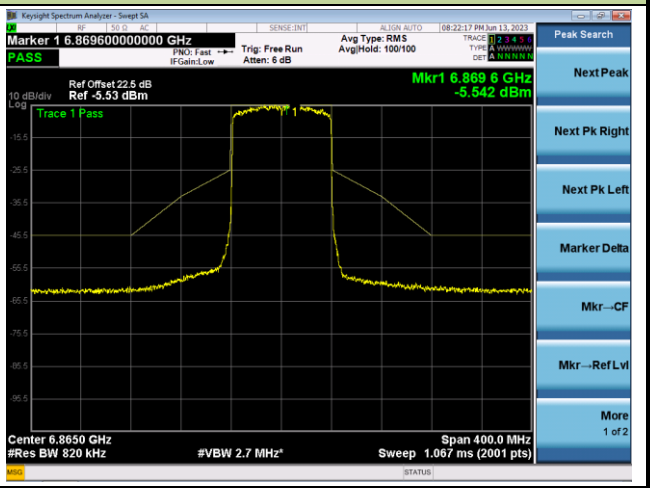
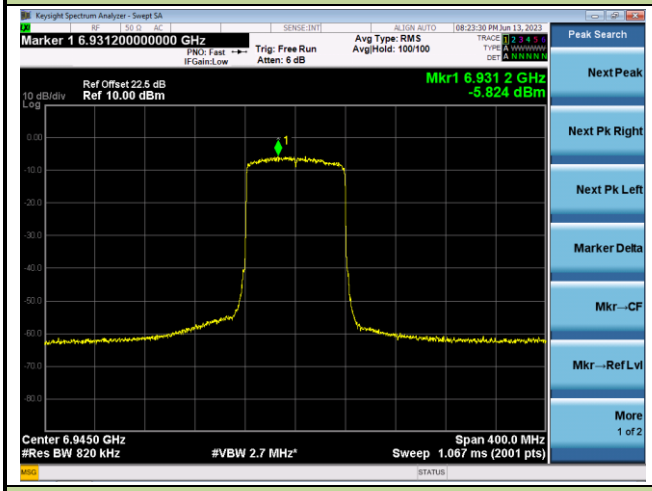
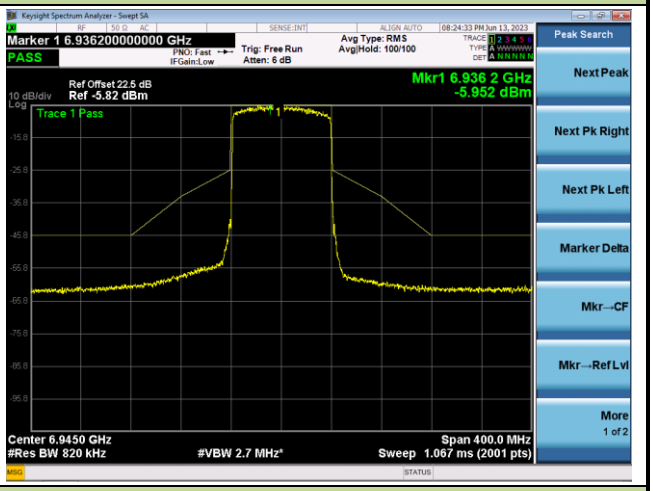
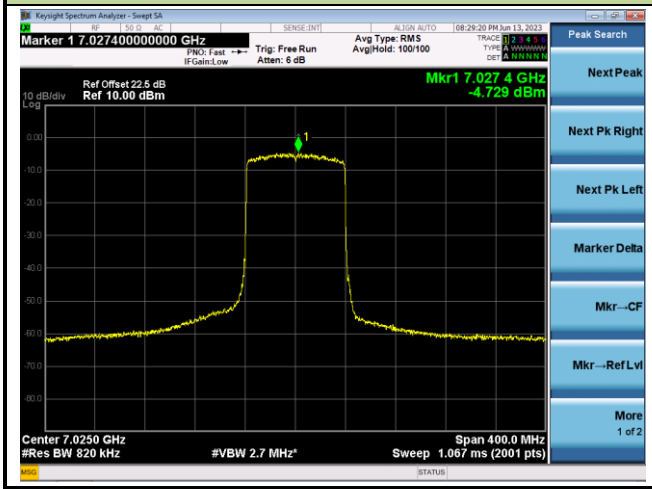
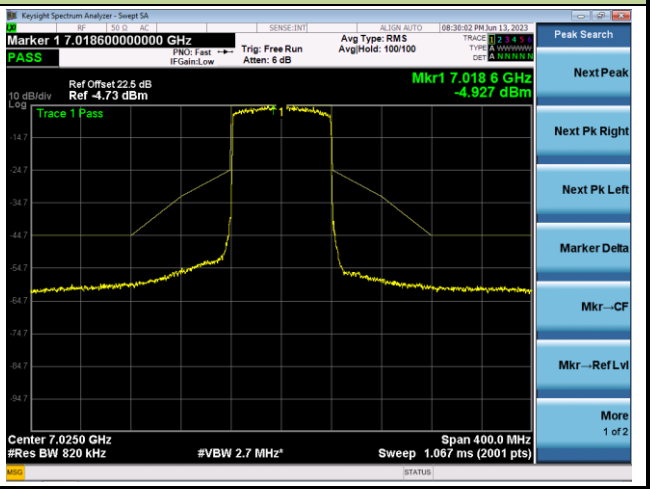
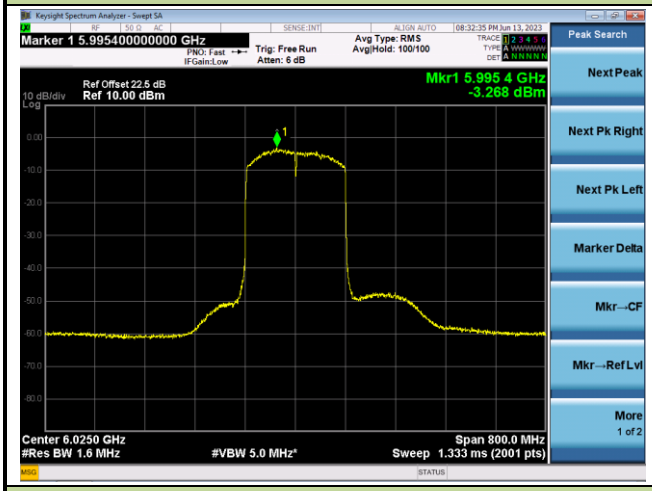
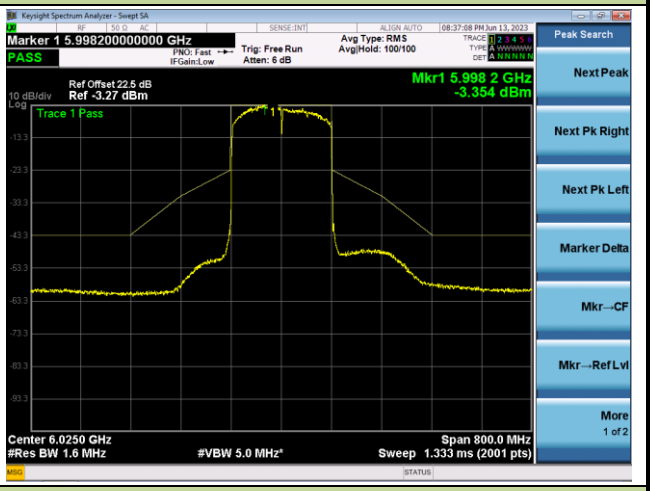
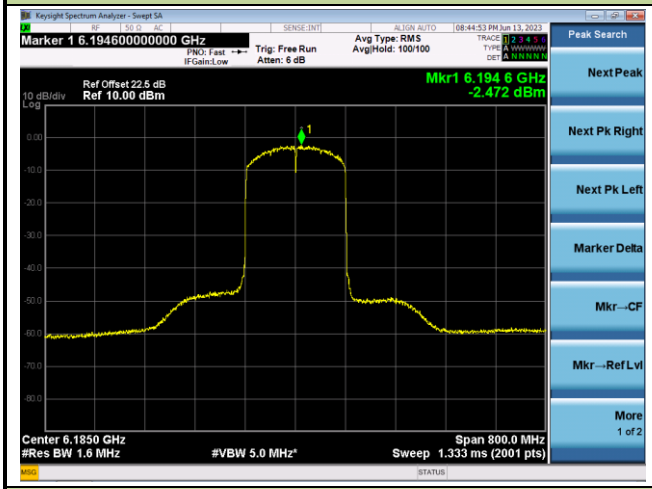
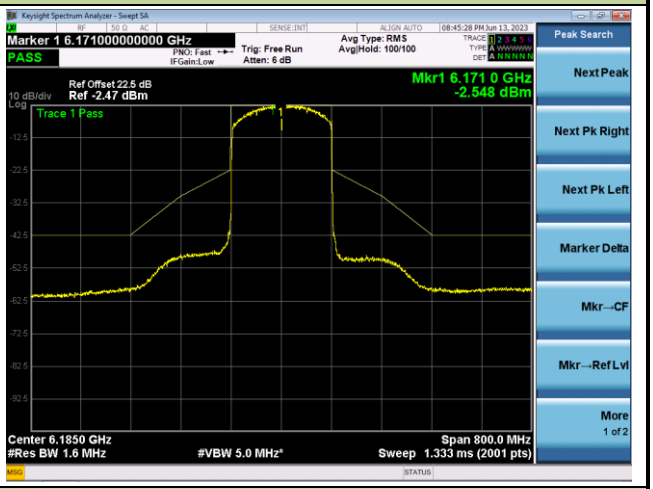
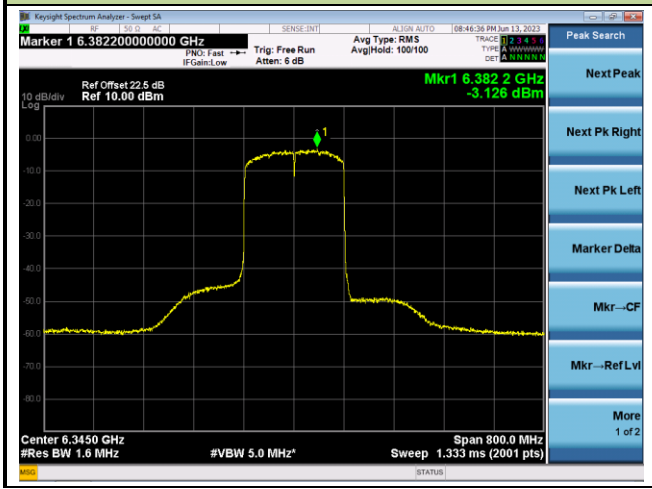
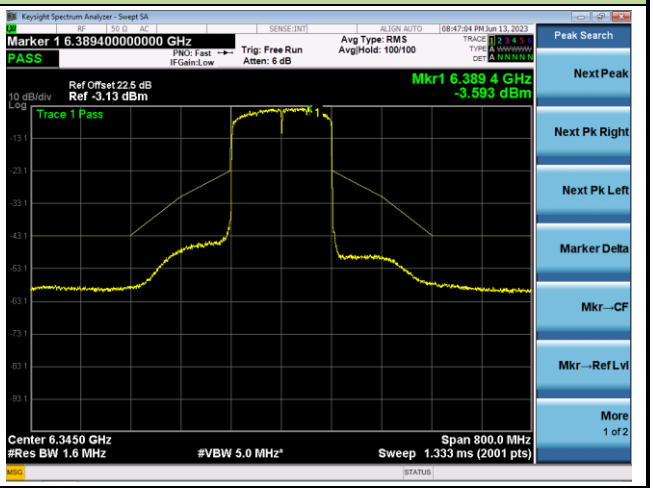
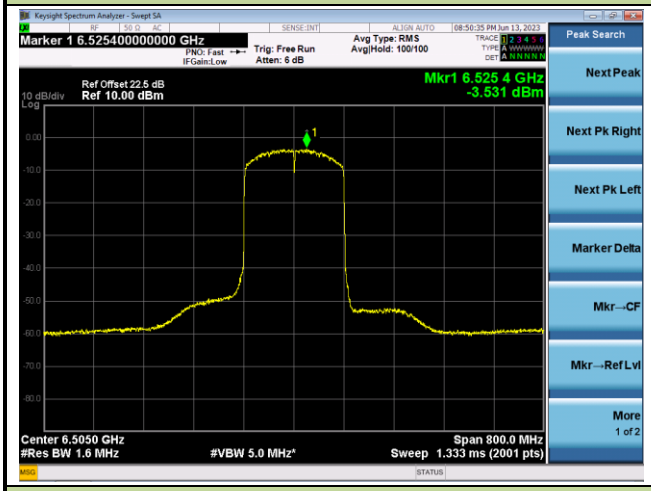
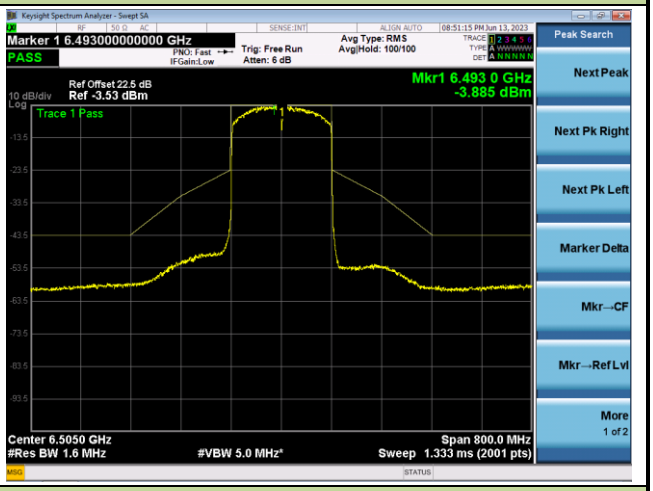
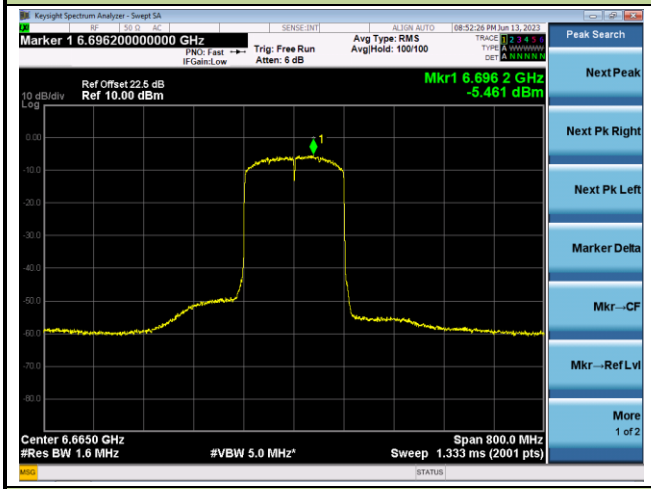
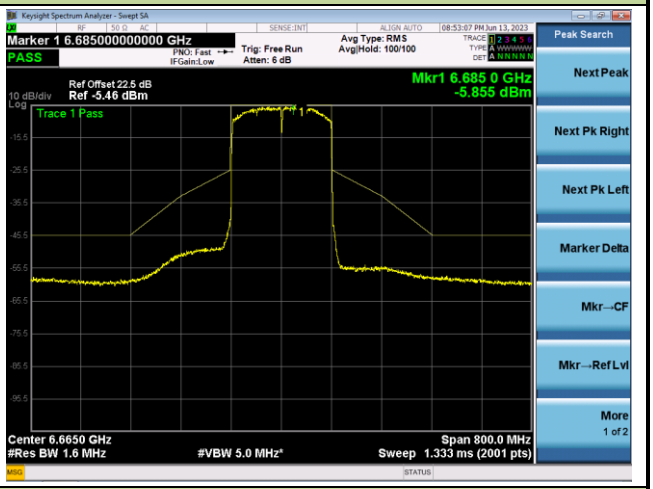
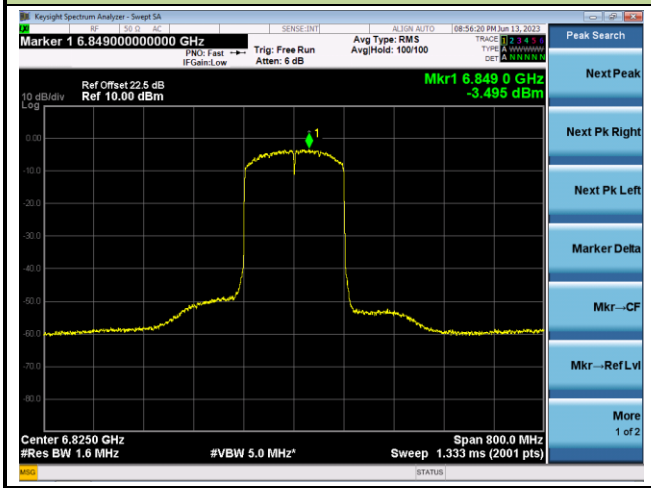
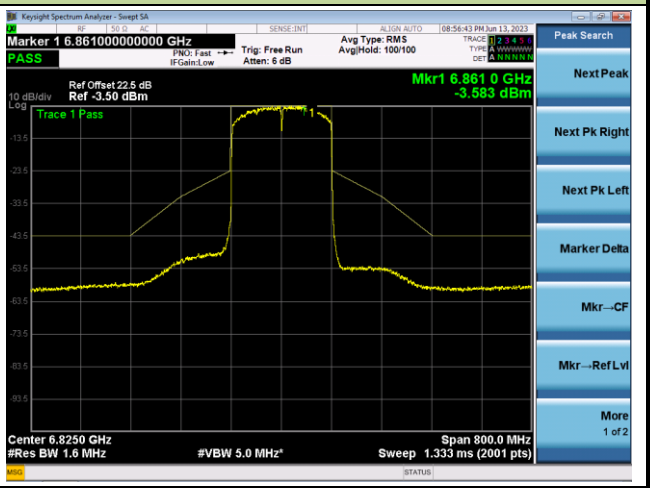
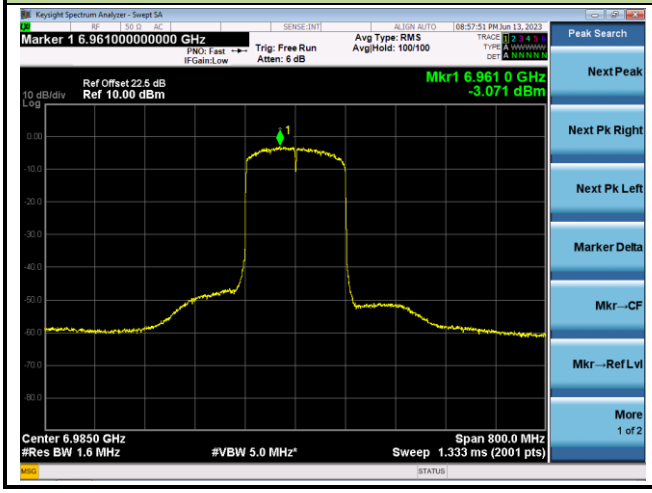
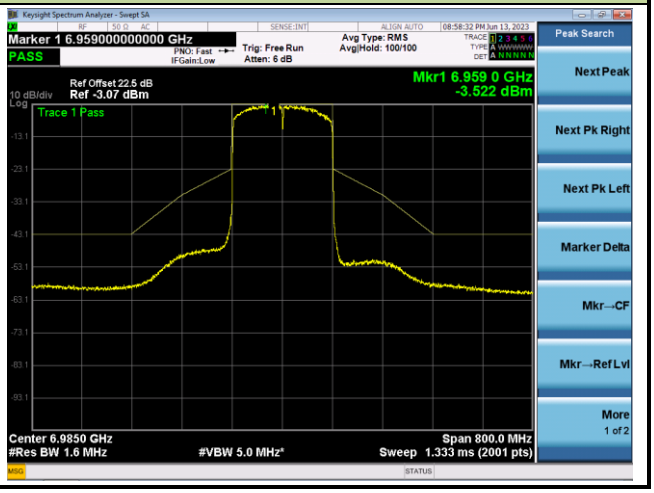
802.11ax-HE80 - Ant 1	
Channel 103 (6465MHz)	
The Reference Level	The Mask Data
	
Channel 119 (6545MHz)	
The Reference Level	The Mask Data
	
Channel 135 (6625MHz)	
The Reference Level	The Mask Data
	

802.11ax-HE80 - Ant 1	
Channel 151 (6705MHz)	
The Reference Level	The Mask Data
	
Channel 167 (6785MHz)	
The Reference Level	The Mask Data
	
Channel 183 (6865MHz)	
The Reference Level	The Mask Data
	

802.11ax-HE80 - Ant 1	
Channel 199 (6945MHz)	
The Reference Level	The Mask Data
	
Channel 215 (7025MHz)	
The Reference Level	The Mask Data
	

802.11ax-HE160 - Ant 1	
Channel 15 (6025MHz)	
The Reference Level	The Mask Data
	
Channel 47 (6185MHz)	
The Reference Level	The Mask Data
	
Channel 79 (6345MHz)	
The Reference Level	The Mask Data
	

802.11ax-HE160 - Ant 1	
Channel 111 (6505MHz)	
The Reference Level	The Mask Data
	
Channel 143 (6665MHz)	
The Reference Level	The Mask Data
	
Channel 175 (6825MHz)	
The Reference Level	The Mask Data
	

802.11ax-HE160 - Ant 1	
Channel 207 (6985MHz)	
The Reference Level	The Mask Data
	

A.6 Frequency Stability Test Result

Test data of AP431:

Test Site	WZ-TR3	Test Engineer	Liz Yuan
Test Date	2023-06-13		
Test Mode	5955MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100	120	- 30	20.55	20.63	20.72	20.73
		- 20	20.83	20.73	20.63	20.63
		- 10	20.40	19.93	19.27	18.29
		0	15.81	15.55	15.39	15.30
		+ 10	12.88	12.08	11.12	10.93
		+ 20	6.77	5.76	5.40	5.01
		+ 30	1.05	1.27	1.43	1.50
		+ 40	-2.29	-2.55	-2.57	-2.64
		+ 50	-4.65	-4.87	-5.04	-5.13
115	138	+ 20	6.24	5.65	5.27	5.08
85	102	+ 20	6.00	5.53	5.18	5.03

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10^6.

A.7 Contention Based Protocol Test Result

Test data of AP431:

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2023-03-25~2023-05-17		

Test Channel	Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	AWGN Power (dBm)	Ant. Gain (dBi)	Adjust Power (dBm)	Detection Limit (dBm)	Detected Number	Detection Probability (%)	Limit (%)	Test Result
Operation Band: U-NII 5											
33	20	6115	6115	-66	3.01	-69.01	≤ -62.0	10	100	90	Pass
47	160	6185	6110	-64	3.01	-67.01	≤ -62.0	10	100	90	Pass
47	160	6185	6185	-62	3.01	-65.01	≤ -62.0	10	100	90	Pass
47	160	6185	6260	-64	3.01	-67.01	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 6											
97	20	6435	6435	-67	3.01	-70.01	≤ -62.0	10	100	90	Pass
103	80	6465	6430	-68	3.01	-71.01	≤ -62.0	10	100	90	Pass
103	80	6465	6465	-63	3.01	-66.01	≤ -62.0	10	100	90	Pass
103	80	6465	6500	-72	3.01	-75.01	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 7											
153	20	6715	6715	-67	3.22	-70.22	≤ -62.0	10	100	90	Pass
143	160	6665	6590	-67	3.22	-70.22	≤ -62.0	10	100	90	Pass
143	160	6665	6665	-61	3.22	-64.22	≤ -62.0	10	100	90	Pass
143	160	6665	6740	-62	3.22	-65.22	≤ -62.0	10	100	90	Pass
Operation Band: U-NII 8											
213	20	7015	7015	-67	3.22	-70.22	≤ -62.0	10	100	90	Pass
207	160	6985	6910	-67	3.22	-70.22	≤ -62.0	10	100	90	Pass
207	160	6985	6985	-61	3.22	-64.22	≤ -62.0	10	100	90	Pass
207	160	6985	7060	-62	3.22	-65.22	≤ -62.0	10	100	90	Pass

Note 1: Adjust Power (dBm) = AWGN Power (dBm) – Antenna Gain (dBi).

Note 2: Conducted measurements are used.

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2023-03-25~2023-05-17		

Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Tx Status
Operation Band: U-NII 5				
20	6135	6135	-74.01	ON
			-73.01	Minimal
			-69.01	OFF
160	6185	6110	-72.01	ON
			-71.01	Minimal
			-67.01	OFF
160	6185	6185	-69.01	ON
			-68.01	Minimal
			-65.01	OFF
160	6185	6260	-80.01	ON
			-79.01	Minimal
			-67.01	OFF
Operation Band: U-NII 6				
20	6455	6455	-75.01	ON
			-74.01	Minimal
			-70.01	OFF
80	6465	6430	-77.01	ON
			-76.01	Minimal
			-71.01	OFF
80	6465	6465	-71.01	ON
			-70.01	Minimal
			-66.01	OFF
80	6465	6500	-80.01	ON
			-79.01	Minimal
			-75.01	OFF

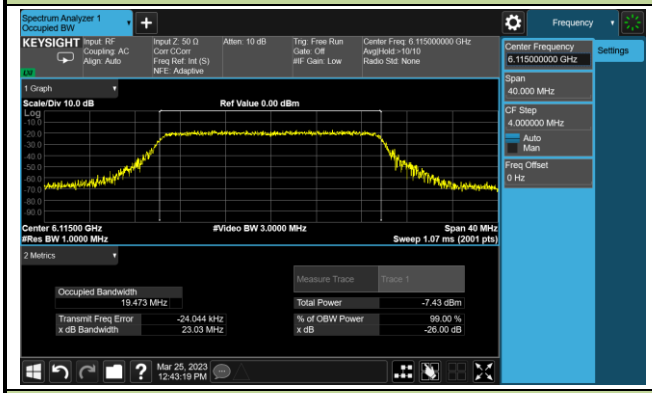
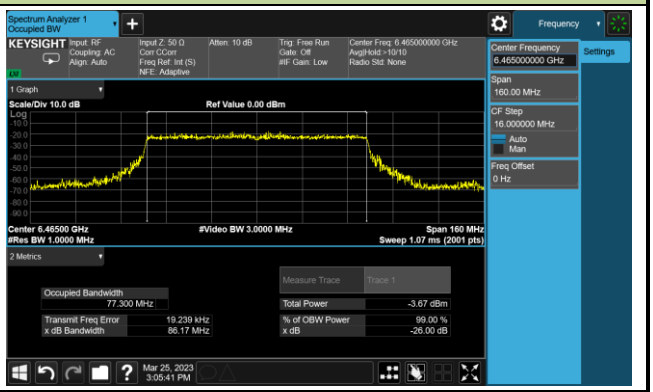
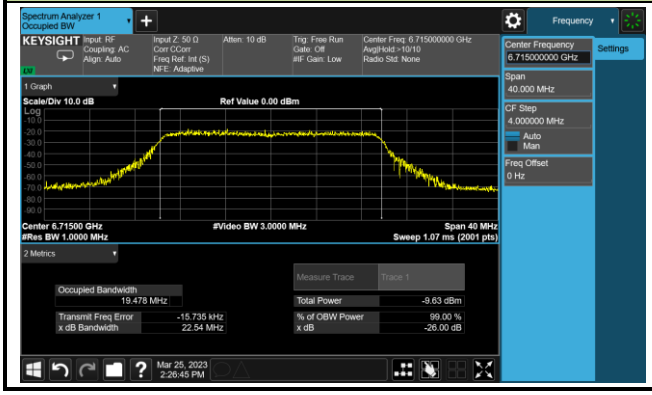
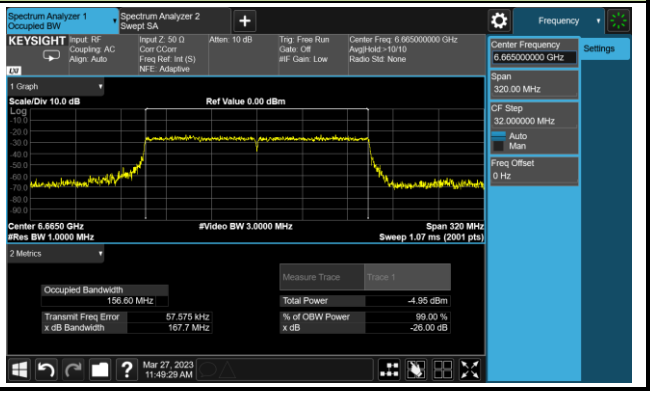
Bandwidth (MHz)	Freq. (MHz)	AWGN Freq. (MHz)	Adjust Power (dBm)	EUT Status
Operation Band: U-NII 7				
20	6695	6695	-75.22	ON
			-74.22	Minimal
			-70.22	OFF
160	6665	6590	-75.22	ON
			-74.22	Minimal
			-70.22	OFF
160	6665	6665	-70.22	ON
			-69.22	Minimal
			-64.22	OFF
160	6665	6740	-80.22	ON
			-79.22	Minimal
			-65.22	OFF
Operation Band: U-NII 8				
20	7015	7015	-77.22	ON
			-76.22	Minimal
			-70.22	OFF
160	6985	6910	-74.22	ON
			-73.22	Minimal
			-70.22	OFF
160	6985	6985	-70.22	ON
			-69.22	Minimal
			-64.22	OFF
160	6985	7060	-81.22	ON
			-80.22	Minimal
			-65.22	OFF

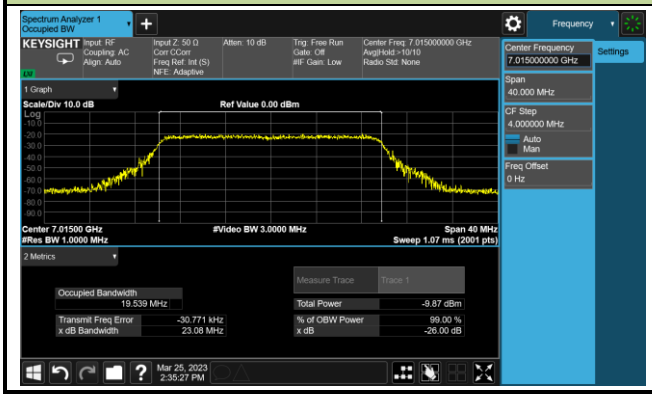
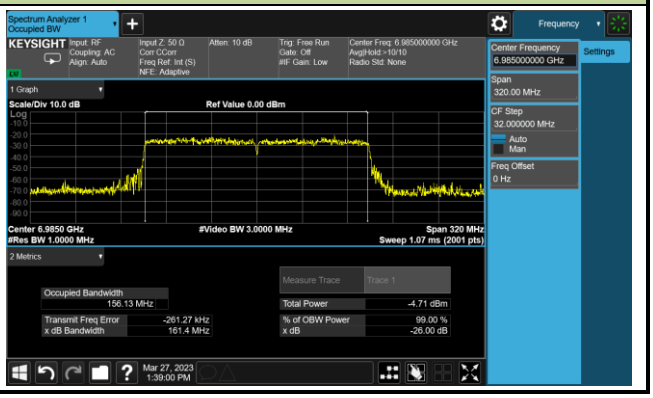
Note:

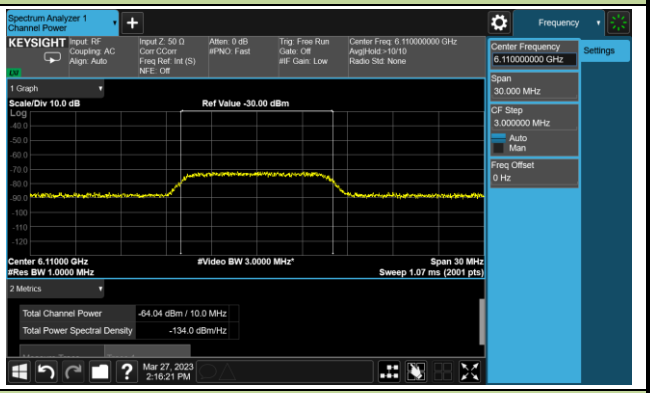
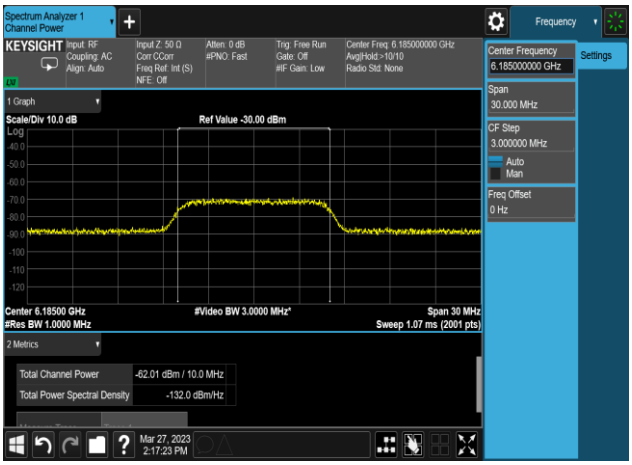
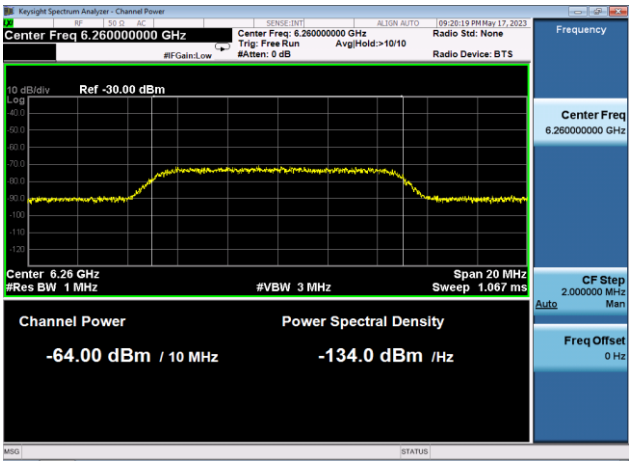
OFF: AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds

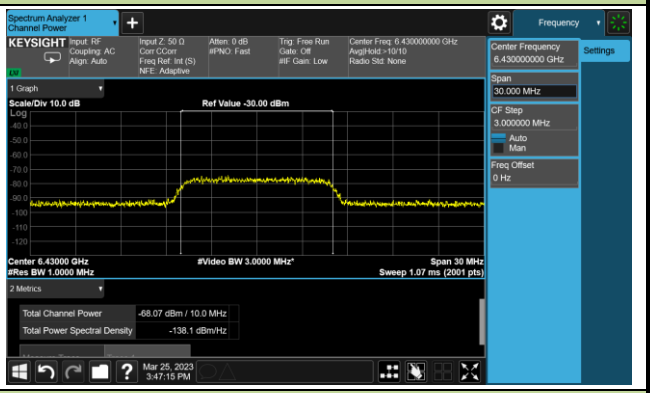
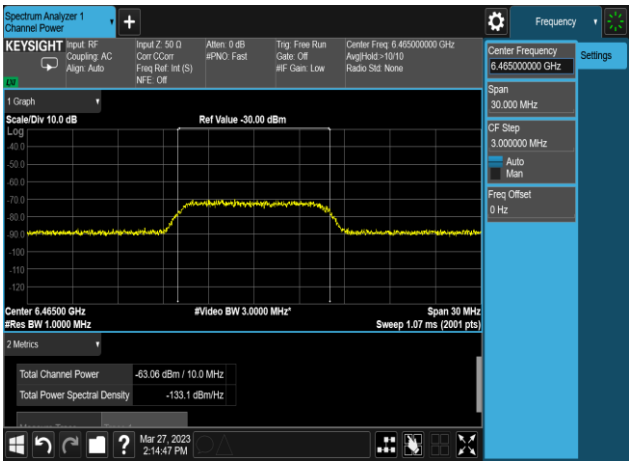
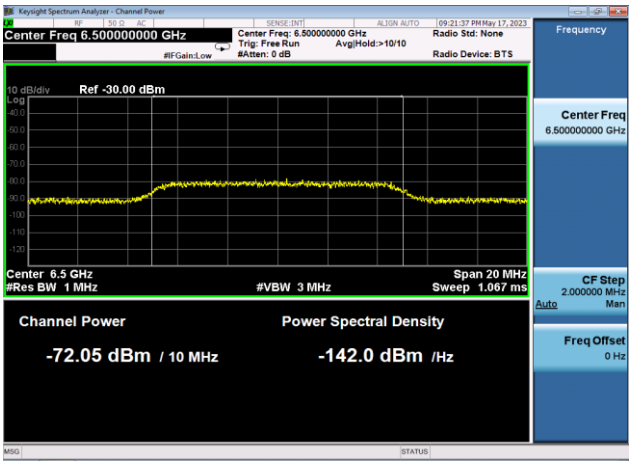
Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently

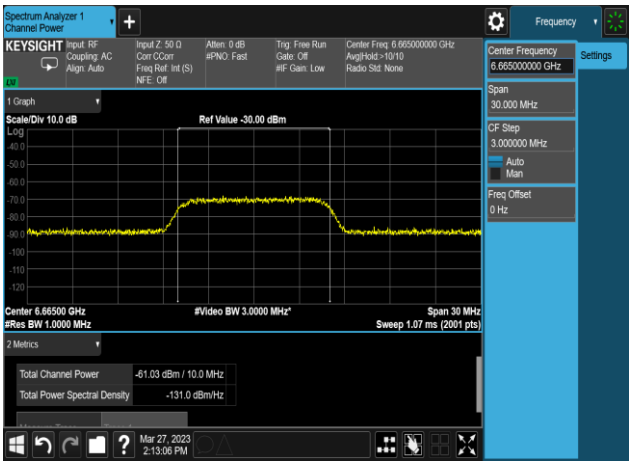
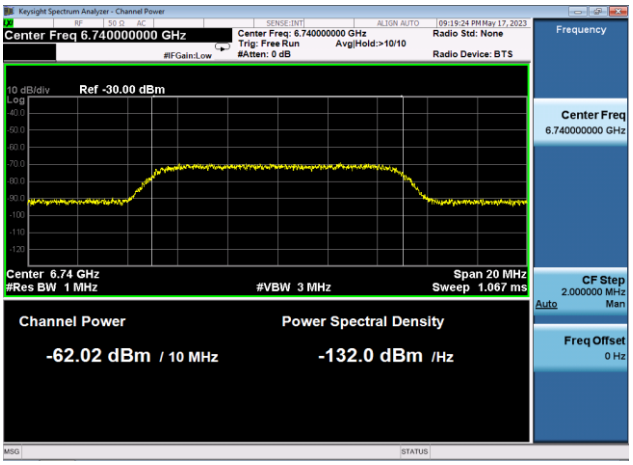
ON: AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds

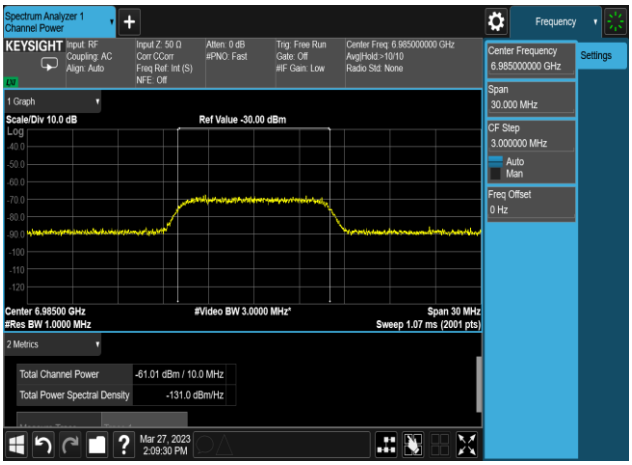
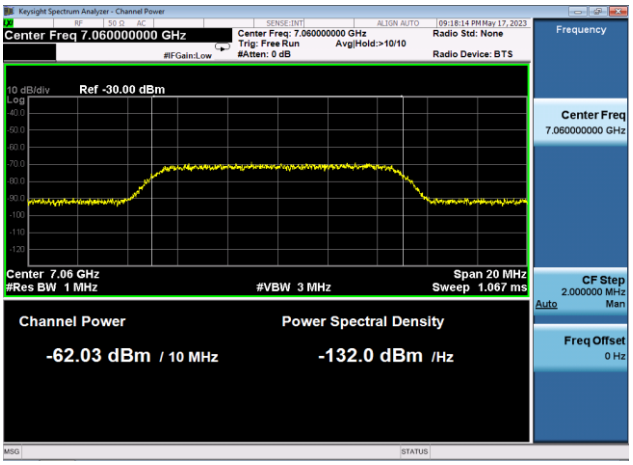
EUT Tx Waveform	
802.11ax-HE20 / CH33	802.11ax-HE160 / CH47
	
802.11ax-HE20 / CH97	802.11ax-HE80 / CH103
	
802.11ax-HE20 / CH153	802.11ax-HE160 / CH143
	

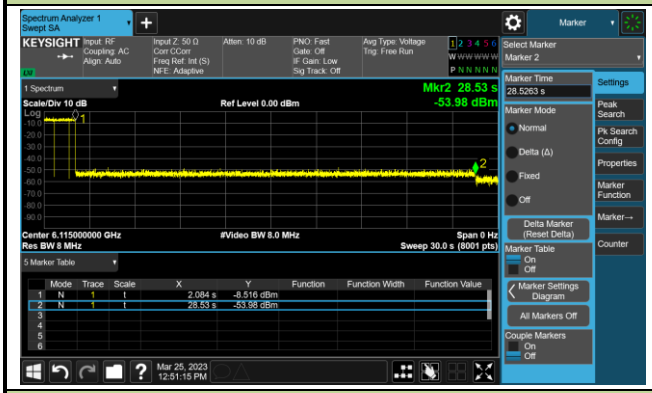
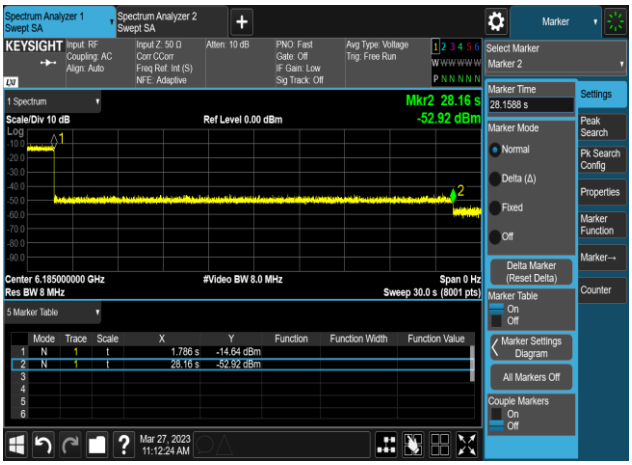
802.11ax-HE20 / CH213	802.11ax-HE160 / CH207
	

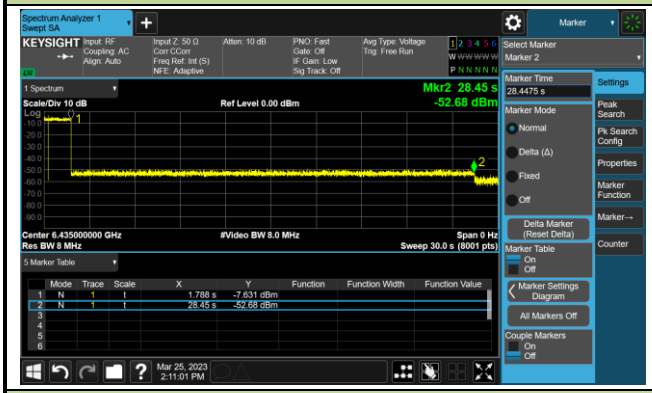
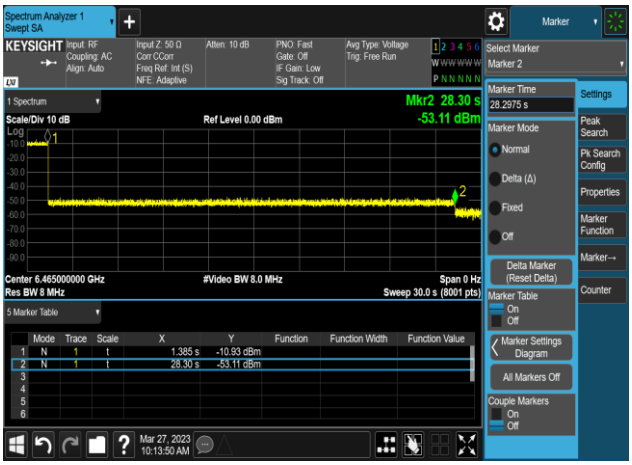
Incumbent Signal Calibration Plots (NII-5 Band)	
802.11ax-HE20 / CH33	802.11ax-HE160 / CH47 (Low Edge)
	
802.11ax-HE160 / CH47 (Middle)	802.11ax-HE160 / CH47 (High Edge)
	

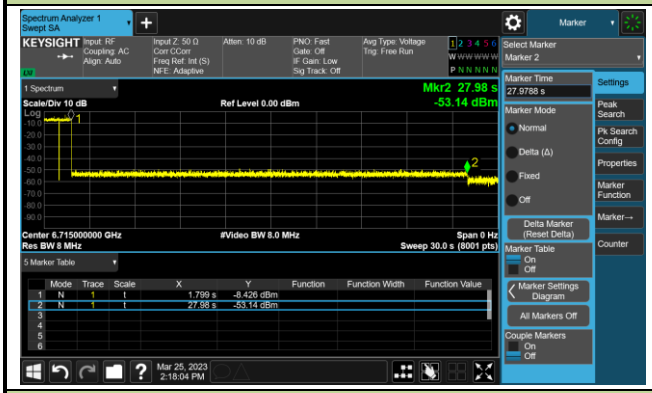
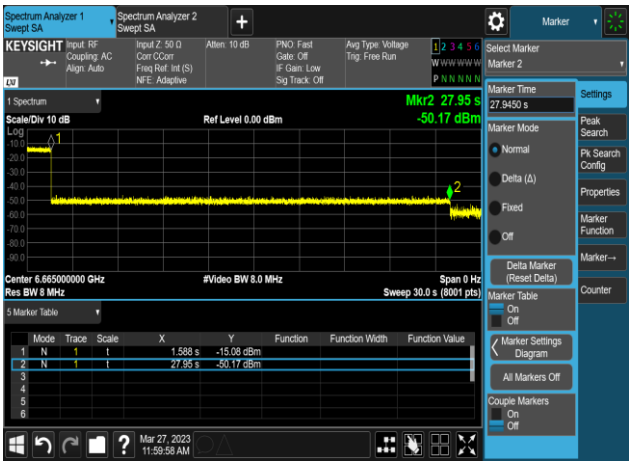
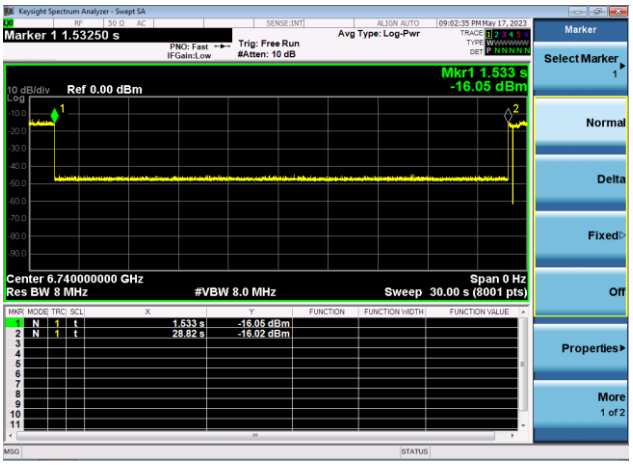
Incumbent Signal Calibration Plots (NII-6 Band)	
802.11ax-HE20 / CH97	802.11ax-HE80 / CH103 (Low Edge)
	
802.11ax-HE80 / CH103 (Middle)	802.11ax-HE80 / CH103 (High Edge)
	

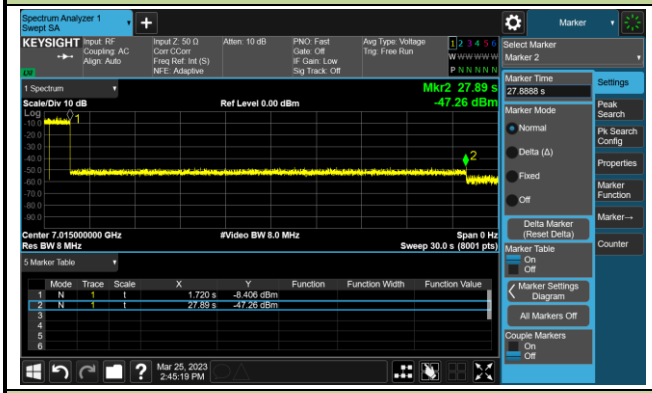
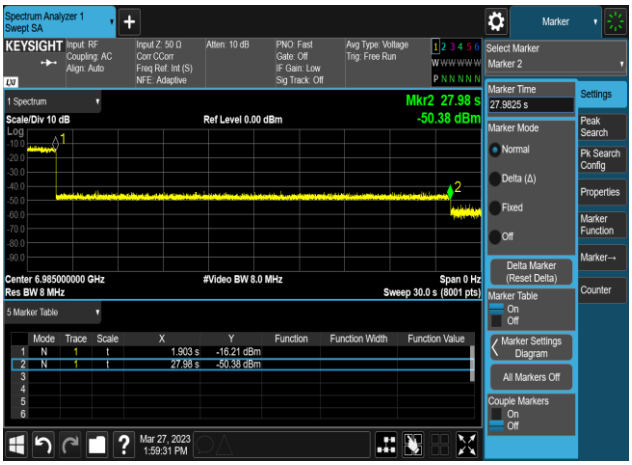
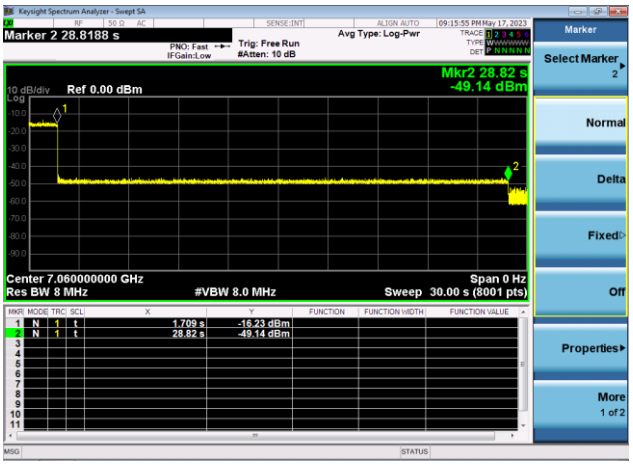
Incumbent Signal Calibration Plots (NII-7 Band)	
802.11ax-HE20 / CH153	802.11ax-HE160 / CH143 (Low Edge)
	
802.11ax-HE160 / CH143 (Middle)	802.11ax-HE160 / CH143 (High Edge)
	

Incumbent Signal Calibration Plots (NII-8 Band)	
802.11ax-HE20 / CH213	802.11ax-HE160 / CH207 (Low Edge)
	
802.11ax-HE160 / CH207 (Middle)	802.11ax-HE160 / CH207 (High Edge)
	

Test Result of EUT ceased transmission (NII-5 Band)	
802.11ax-HE20 / CH33	802.11ax-HE160 / CH47 (Low Edge)
	
802.11ax-HE160 / CH47 (Middle)	802.11ax-HE160 / CH47 (High Edge)
	

Test Result of EUT ceased transmission (NII-6 Band)	
802.11ax-HE20 / CH97	802.11ax-HE80 / CH103 (Low Edge)
	
802.11ax-HE80 / CH103 (Middle)	802.11ax-HE80 / CH103 (High Edge)
	

Test Result of EUT ceased transmission (NII-7 Band)	
802.11ax-HE20 / CH153	802.11ax-HE160 / CH143 (Low Edge)
	
802.11ax-HE160 / CH143 (Middle)	802.11ax-HE160 / CH143 (High Edge)
	

Test Result of EUT ceased transmission (NII-8 Band)	
802.11ax-HE20 / CH213	802.11ax-HE160 / CH207 (Low Edge)
	
802.11ax-HE160 / CH207 (Middle)	802.11ax-HE160 / CH207 (High Edge)
	

A.8 Radiated Spurious Emission Test Result

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	1
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11293.5	35.2	15.7	50.9	74.0	-23.1	Peak	Horizontal
*	14064.5	33.6	16.8	50.4	88.2	-37.8	Peak	Horizontal
	15926.0	33.6	15.2	48.8	74.0	-25.2	Peak	Horizontal
*	17354.0	36.2	21.6	57.8	88.2	-30.4	Peak	Horizontal
	10724.0	37.0	14.5	51.5	74.0	-22.5	Peak	Vertical
*	12951.0	35.2	15.6	50.8	88.2	-37.4	Peak	Vertical
	15764.5	36.0	15.9	51.9	74.0	-22.1	Peak	Vertical
*	17107.5	33.4	18.2	51.6	88.2	-36.6	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	49
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	10707.0	36.7	14.4	51.1	74.0	-22.9	Peak	Horizontal
*	12951.0	36.0	15.6	51.6	88.2	-36.6	Peak	Horizontal
	15815.5	36.2	16.3	52.5	74.0	-21.5	Peak	Horizontal
*	17099.0	33.2	17.8	51.0	88.2	-37.2	Peak	Horizontal
	10724.0	36.1	14.5	50.6	74.0	-23.4	Peak	Vertical
*	12951.0	33.9	15.6	49.5	88.2	-38.7	Peak	Vertical
	15798.5	34.7	15.9	50.6	74.0	-23.4	Peak	Vertical
*	16640.0	34.1	17.7	51.8	88.2	-36.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	93
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11217.0	34.8	16.0	50.8	74.0	-23.2	Peak	Horizontal
*	12900.0	36.0	14.8	50.8	88.2	-37.4	Peak	Horizontal
	15713.5	35.9	15.9	51.8	74.0	-22.2	Peak	Horizontal
*	16495.5	34.3	16.2	50.5	88.2	-37.7	Peak	Horizontal
	11149.0	35.3	15.4	50.7	74.0	-23.3	Peak	Vertical
*	13401.5	35.9	16.7	52.6	88.2	-35.6	Peak	Vertical
	15705.0	34.6	16.0	50.6	74.0	-23.4	Peak	Vertical
*	16572.0	34.1	16.8	50.9	88.2	-37.3	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	97
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11285.0	35.8	15.5	51.3	74.0	-22.7	Peak	Horizontal
*	13852.0	34.9	16.7	51.6	88.2	-36.6	Peak	Horizontal
	15781.5	34.5	16.0	50.5	74.0	-23.5	Peak	Horizontal
*	17107.5	32.9	18.2	51.1	88.2	-37.1	Peak	Horizontal
	10715.5	37.3	14.4	51.7	74.0	-22.3	Peak	Vertical
*	12951.0	35.3	15.6	50.9	88.2	-37.3	Peak	Vertical
	15730.5	35.9	15.9	51.8	74.0	-22.2	Peak	Vertical
*	17175.5	34.2	19.1	53.3	88.2	-34.9	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	105
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	10962.0	35.4	15.3	50.7	74.0	-23.3	Peak	Horizontal
*	13665.0	35.1	17.0	52.1	88.2	-36.1	Peak	Horizontal
	15773.0	33.4	16.1	49.5	74.0	-24.5	Peak	Horizontal
*	17175.5	33.2	19.1	52.3	88.2	-35.9	Peak	Horizontal
	11200.0	35.2	15.6	50.8	74.0	-23.2	Peak	Vertical
*	13401.5	35.1	16.7	51.8	88.2	-36.4	Peak	Vertical
	15713.5	34.8	15.9	50.7	74.0	-23.3	Peak	Vertical
*	17099.0	34.0	17.8	51.8	88.2	-36.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	113
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11931.0	37.0	14.3	51.3	74.0	-22.7	Peak	Horizontal
*	12900.0	36.2	14.8	51.0	88.2	-37.2	Peak	Horizontal
	15713.5	35.5	15.9	51.4	74.0	-22.6	Peak	Horizontal
*	17099.0	33.7	17.8	51.5	88.2	-36.7	Peak	Horizontal
	11004.5	36.2	14.7	50.9	74.0	-23.1	Peak	Vertical
*	13563.0	35.7	16.9	52.6	88.2	-35.6	Peak	Vertical
	15773.0	35.5	16.1	51.6	74.0	-22.4	Peak	Vertical
*	17252.0	33.6	20.2	53.8	88.2	-34.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	117
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11557.0	35.4	15.9	51.3	74.0	-22.7	Peak	Horizontal
*	13733.0	35.3	17.1	52.4	88.2	-35.8	Peak	Horizontal
	15815.5	35.6	16.3	51.9	74.0	-22.1	Peak	Horizontal
*	17175.5	34.0	19.1	53.1	88.2	-35.1	Peak	Horizontal
	11200.0	35.0	15.6	50.6	74.0	-23.4	Peak	Vertical
*	12934.0	35.4	15.7	51.1	88.2	-37.1	Peak	Vertical
	15645.5	36.2	15.8	52.0	74.0	-22.0	Peak	Vertical
*	17252.0	32.4	20.2	52.6	88.2	-35.6	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	149
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11217.0	35.6	16.0	51.6	74.0	-22.4	Peak	Horizontal
*	12798.0	36.3	14.7	51.0	88.2	-37.2	Peak	Horizontal
	15773.0	33.4	16.1	49.5	74.0	-24.5	Peak	Horizontal
*	17099.0	33.5	17.8	51.3	88.2	-36.9	Peak	Horizontal
	11999.0	36.9	14.9	51.8	74.0	-22.2	Peak	Vertical
*	13503.5	35.8	16.9	52.7	88.2	-35.5	Peak	Vertical
	15900.5	33.8	16.6	50.4	74.0	-23.6	Peak	Vertical
*	17175.5	33.5	19.1	52.6	88.2	-35.6	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	181
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11472.0	34.7	15.8	50.5	74.0	-23.5	Peak	Horizontal
*	12866.0	35.3	15.3	50.6	88.2	-37.6	Peak	Horizontal
	15798.5	35.8	15.9	51.7	74.0	-22.3	Peak	Horizontal
*	17099.0	33.9	17.8	51.7	88.2	-36.5	Peak	Horizontal
	10707.0	36.2	14.4	50.6	74.0	-23.4	Peak	Vertical
*	12942.5	35.5	15.6	51.1	88.2	-37.1	Peak	Vertical
	15892.0	35.7	16.7	52.4	74.0	-21.6	Peak	Vertical
*	17175.5	33.7	19.1	52.8	88.2	-35.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	185
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	10800.5	35.8	14.7	50.5	74.0	-23.5	Peak	Horizontal
*	12781.0	35.9	14.8	50.7	88.2	-37.5	Peak	Horizontal
	15356.5	34.3	18.1	52.4	74.0	-21.6	Peak	Horizontal
*	16495.5	33.6	16.2	49.8	88.2	-38.4	Peak	Horizontal
	11208.5	35.7	15.8	51.5	74.0	-22.5	Peak	Vertical
*	14336.5	35.3	18.0	53.3	88.2	-34.9	Peak	Vertical
	15926.0	32.8	15.2	48.0	74.0	-26.0	Peak	Vertical
*	17099.0	33.6	17.8	51.4	88.2	-36.8	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	189
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11336.0	35.5	15.2	50.7	74.0	-23.3	Peak	Horizontal
*	13469.5	36.0	17.0	53.0	88.2	-35.2	Peak	Horizontal
	15858.0	34.3	15.5	49.8	74.0	-24.2	Peak	Horizontal
*	17099.0	33.9	17.8	51.7	88.2	-36.5	Peak	Horizontal
	11999.0	36.3	14.9	51.2	74.0	-22.8	Peak	Vertical
*	13410.0	35.3	16.7	52.0	88.2	-36.2	Peak	Vertical
	15815.5	36.2	16.3	52.5	74.0	-21.5	Peak	Vertical
*	17099.0	34.0	17.8	51.8	88.2	-36.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	209
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	10817.5	35.9	14.8	50.7	74.0	-23.3	Peak	Horizontal
*	12857.5	35.4	15.2	50.6	88.2	-37.6	Peak	Horizontal
	15705.0	35.4	16.0	51.4	74.0	-22.6	Peak	Horizontal
*	17099.0	33.7	17.8	51.5	88.2	-36.7	Peak	Horizontal
	10809.0	35.4	14.9	50.3	74.0	-23.7	Peak	Vertical
*	13733.0	34.7	17.1	51.8	88.2	-36.4	Peak	Vertical
	15977.0	34.2	16.0	50.2	74.0	-23.8	Peak	Vertical
*	17175.5	33.2	19.1	52.3	88.2	-35.9	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE20	Test Channel	229
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	10732.5	36.1	14.5	50.6	74.0	-23.4	Peak	Horizontal
*	13469.5	35.6	17.0	52.6	88.2	-35.6	Peak	Horizontal
	15883.5	35.1	16.2	51.3	74.0	-22.7	Peak	Horizontal
*	17252.0	32.5	20.2	52.7	88.2	-35.5	Peak	Horizontal
	11217.0	35.2	16.0	51.2	74.0	-22.8	Peak	Vertical
*	13733.0	33.4	17.1	50.5	88.2	-37.7	Peak	Vertical
	15747.5	35.2	15.8	51.0	74.0	-23.0	Peak	Vertical
*	17099.0	33.1	17.8	50.9	88.2	-37.3	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	3
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11149.0	35.6	15.4	51.0	74.0	-23.0	Peak	Horizontal
*	13597.0	34.8	17.2	52.0	88.2	-36.2	Peak	Horizontal
	15705.0	35.8	16.0	51.8	74.0	-22.2	Peak	Horizontal
*	17099.0	33.9	17.8	51.7	88.2	-36.5	Peak	Horizontal
	11497.5	35.9	15.7	51.6	74.0	-22.4	Peak	Vertical
*	13860.5	34.9	16.7	51.6	88.2	-36.6	Peak	Vertical
	15637.0	34.1	16.2	50.3	74.0	-23.7	Peak	Vertical
*	17175.5	34.2	19.1	53.3	88.2	-34.9	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	51
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	10749.5	36.6	14.7	51.3	74.0	-22.7	Peak	Horizontal
*	13580.0	35.6	17.0	52.6	88.2	-35.6	Peak	Horizontal
	15985.5	34.6	15.8	50.4	74.0	-23.6	Peak	Horizontal
*	17099.0	34.0	17.8	51.8	88.2	-36.4	Peak	Horizontal
	11217.0	34.7	16.0	50.7	74.0	-23.3	Peak	Vertical
*	12976.5	35.7	15.3	51.0	88.2	-37.2	Peak	Vertical
	15824.0	34.8	16.6	51.4	74.0	-22.6	Peak	Vertical
*	17099.0	33.5	17.8	51.3	88.2	-36.9	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	91
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11242.5	35.0	15.5	50.5	74.0	-23.5	Peak	Horizontal
*	13588.5	34.9	17.1	52.0	88.2	-36.2	Peak	Horizontal
	15705.0	34.0	16.0	50.0	74.0	-24.0	Peak	Horizontal
*	17099.0	33.6	17.8	51.4	88.2	-36.8	Peak	Horizontal
	12636.5	36.6	14.7	51.3	74.0	-22.7	Peak	Vertical
*	14013.5	36.1	17.3	53.4	88.2	-34.8	Peak	Vertical
	15798.5	36.0	15.9	51.9	74.0	-22.1	Peak	Vertical
*	17175.5	33.7	19.1	52.8	88.2	-35.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	99
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11234.0	35.3	15.5	50.8	74.0	-23.2	Peak	Horizontal
*	12866.0	35.5	15.3	50.8	88.2	-37.4	Peak	Horizontal
	15798.5	35.5	15.9	51.4	74.0	-22.6	Peak	Horizontal
*	17175.5	33.6	19.1	52.7	88.2	-35.5	Peak	Horizontal
	12305.0	36.7	14.6	51.3	74.0	-22.7	Peak	Vertical
*	14098.5	34.8	17.5	52.3	88.2	-35.9	Peak	Vertical
	15832.5	35.0	16.5	51.5	74.0	-22.5	Peak	Vertical
*	17099.0	33.3	17.8	51.1	88.2	-37.1	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	107
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11276.5	35.2	15.5	50.7	74.0	-23.3	Peak	Horizontal
*	13478.0	34.5	17.3	51.8	88.2	-36.4	Peak	Horizontal
	16062.0	34.2	15.3	49.5	74.0	-24.5	Peak	Horizontal
*	17099.0	33.8	17.8	51.6	88.2	-36.6	Peak	Horizontal
	11285.0	34.8	15.5	50.3	74.0	-23.7	Peak	Vertical
*	13852.0	34.6	16.7	51.3	88.2	-36.9	Peak	Vertical
	15713.5	35.5	15.9	51.4	74.0	-22.6	Peak	Vertical
*	17107.5	33.5	18.2	51.7	88.2	-36.5	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	115
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11412.5	34.6	15.5	50.1	74.0	-23.9	Peak	Horizontal
*	13401.5	35.7	16.7	52.4	88.2	-35.8	Peak	Horizontal
	15815.5	34.4	16.3	50.7	74.0	-23.3	Peak	Horizontal
*	17107.5	33.4	18.2	51.6	88.2	-36.6	Peak	Horizontal
	10707.0	37.0	14.4	51.4	74.0	-22.6	Peak	Vertical
*	13478.0	34.5	17.3	51.8	88.2	-36.4	Peak	Vertical
	15781.5	35.2	16.0	51.2	74.0	-22.8	Peak	Vertical
*	17099.0	33.0	17.8	50.8	88.2	-37.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	123
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	11217.0	35.0	16.0	51.0	74.0	-23.0	Peak	Horizontal
*	12925.5	34.7	15.5	50.2	88.2	-38.0	Peak	Horizontal
	15713.5	34.5	15.9	50.4	74.0	-23.6	Peak	Horizontal
*	17099.0	33.2	17.8	51.0	88.2	-37.2	Peak	Horizontal
	11089.5	34.8	15.6	50.4	74.0	-23.6	Peak	Vertical
*	12942.5	35.9	15.6	51.5	88.2	-36.7	Peak	Vertical
	15730.5	35.0	15.9	50.9	74.0	-23.1	Peak	Vertical
*	17099.0	33.0	17.8	50.8	88.2	-37.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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

Product	HAN Access Point (AP431)	Test Engineer	Ted Chen
Test Site	NS-AC1	Test Date	2023-06-09
Test Mode	802.11ax-HE40	Test Channel	147
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 (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
	12254.0	36.4	14.6	51.0	74.0	-23.0	Peak	Horizontal
*	13818.0	34.9	17.2	52.1	88.2	-36.1	Peak	Horizontal
	15569.0	35.9	16.3	52.2	74.0	-21.8	Peak	Horizontal
*	17107.5	33.6	18.2	51.8	88.2	-36.4	Peak	Horizontal
	11217.0	35.1	16.0	51.1	74.0	-22.9	Peak	Vertical
*	12925.5	35.4	15.5	50.9	88.2	-37.3	Peak	Vertical
	15824.0	34.6	16.6	51.2	74.0	-22.8	Peak	Vertical
*	17099.0	34.0	17.8	51.8	88.2	-36.4	Peak	Vertical

Note 1: “*” is not in restricted band.

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

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