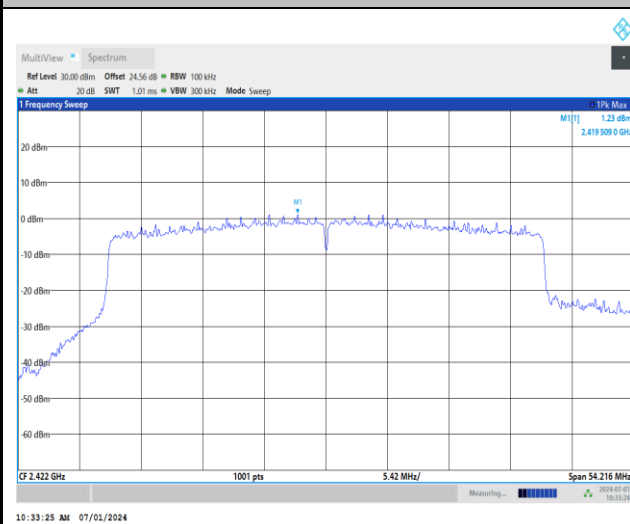




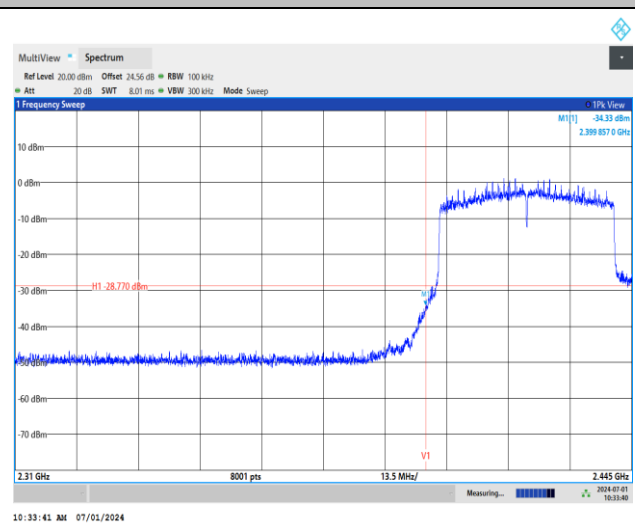
Test Mode : 802.11ax HE40_FullRU

Test Channel : 03

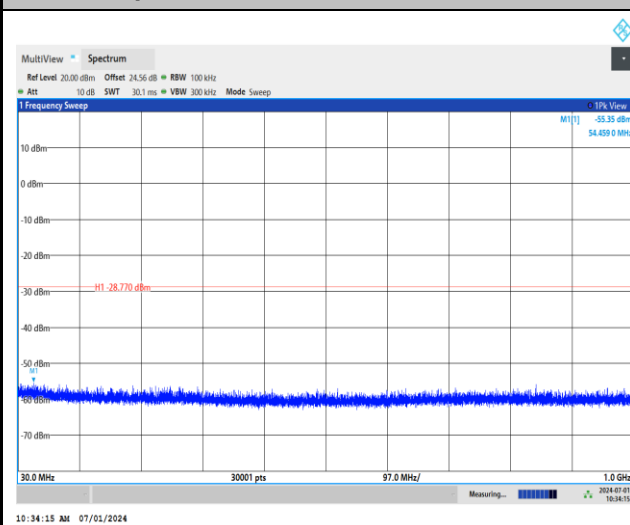
100kHz PSD reference Level



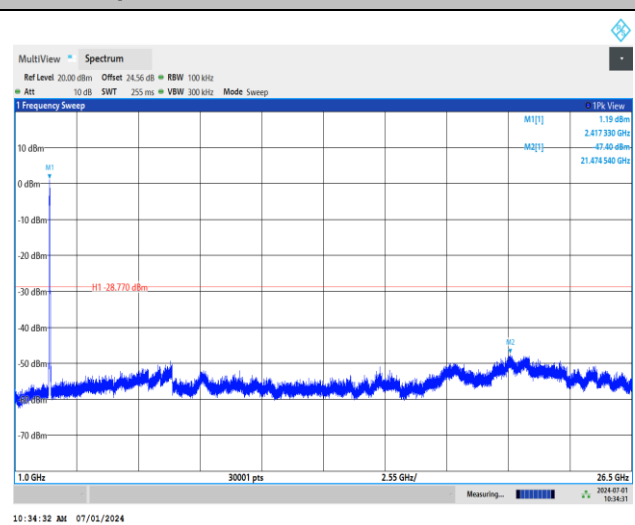
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

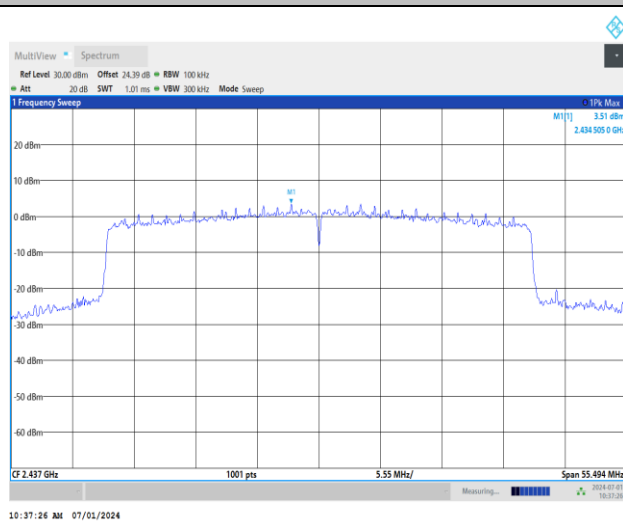




Test Mode : 802.11ax HE40_FullIRU

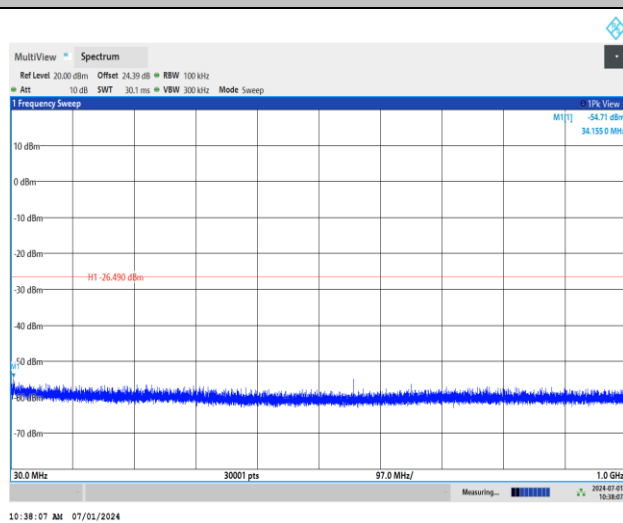
Test Channel : 06

100kHz PSD reference Level

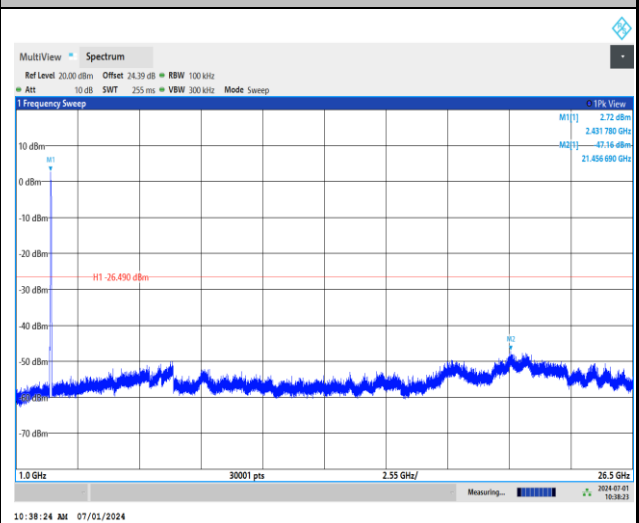


Middle Channel Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

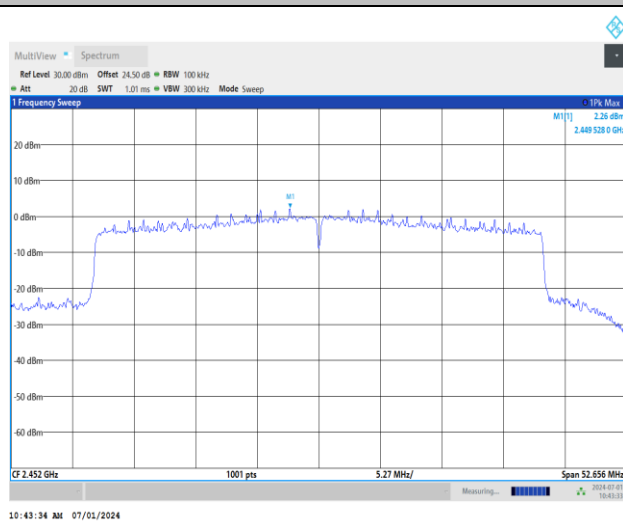




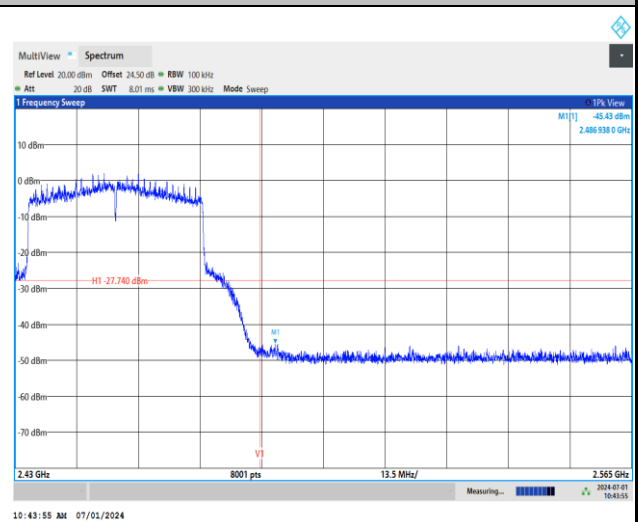
Test Mode : 802.11ax HE40_FullRU

Test Channel : 09

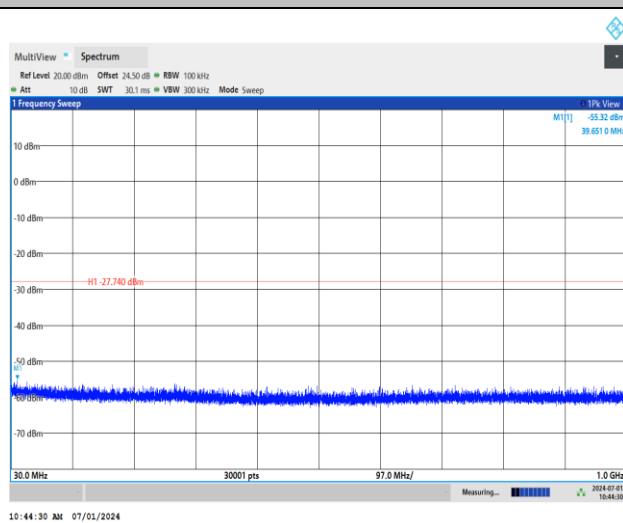
100kHz PSD reference Level



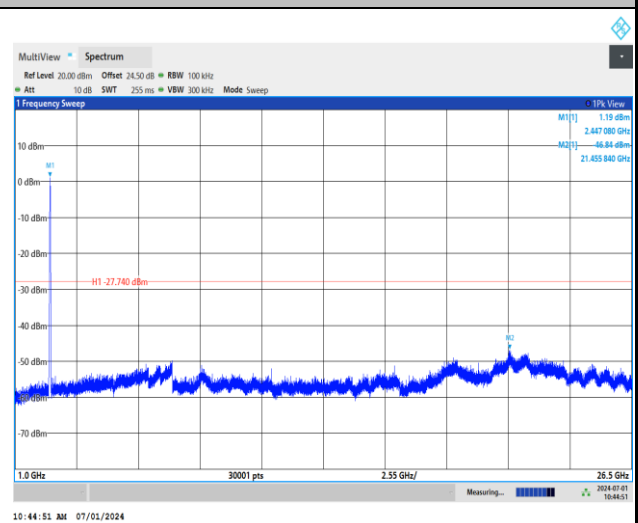
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz



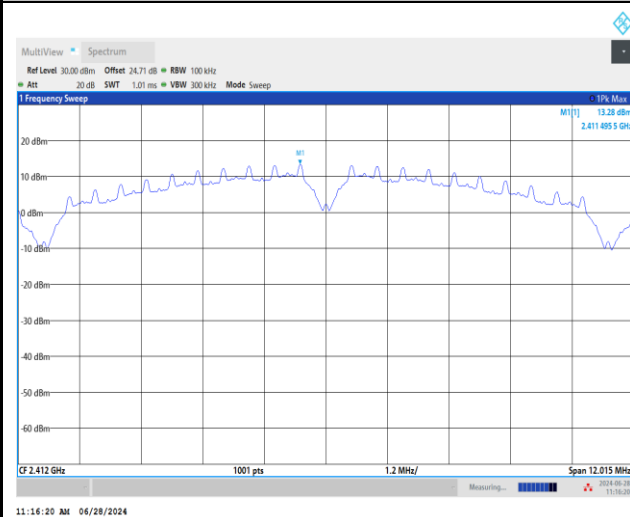


Number of TX = 2, Ant. 2 (Measured)

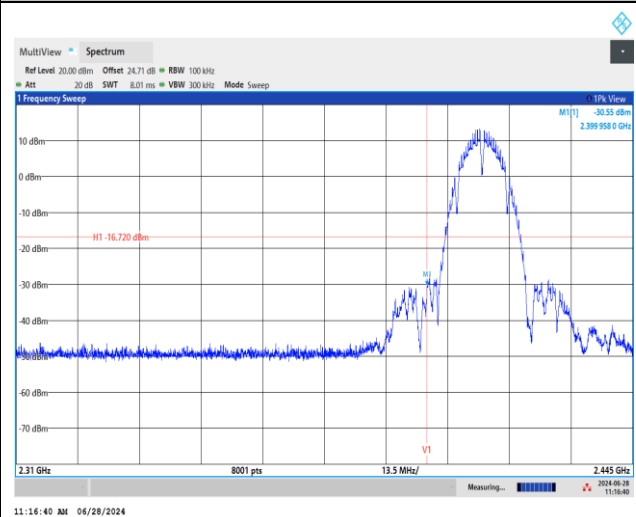
Test Mode : 802.11b

Test Channel : 01

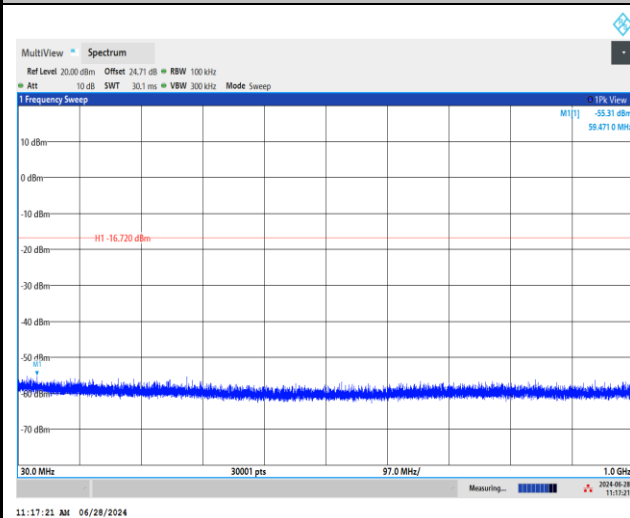
100kHz PSD reference Level



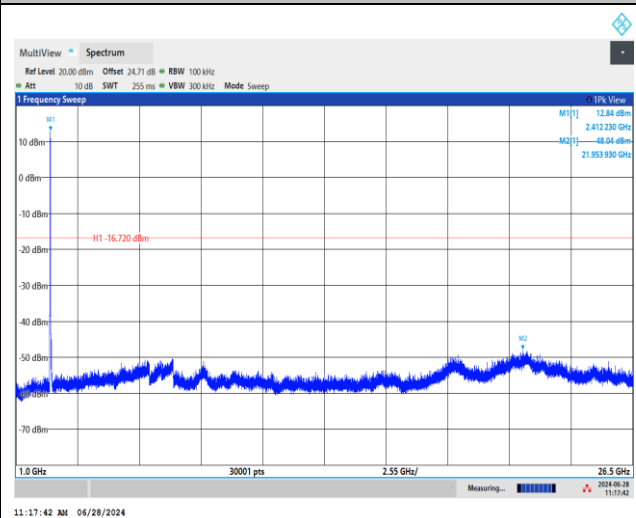
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

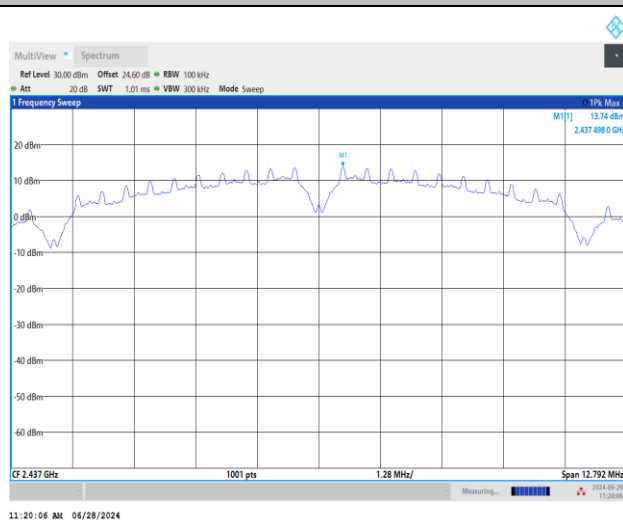




Test Mode : 802.11b

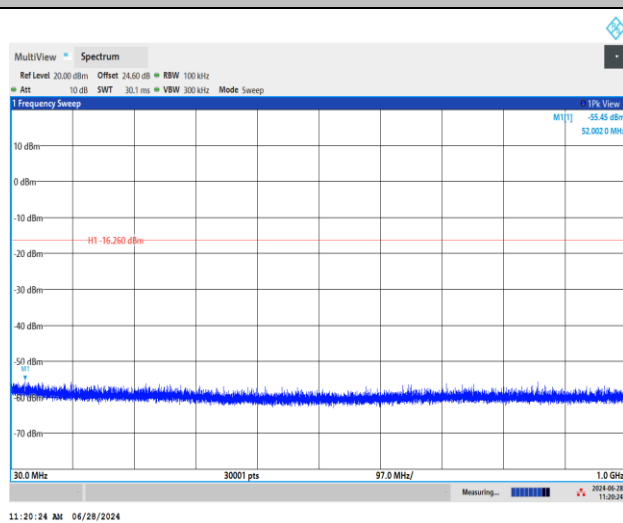
Test Channel : 06

100kHz PSD reference Level

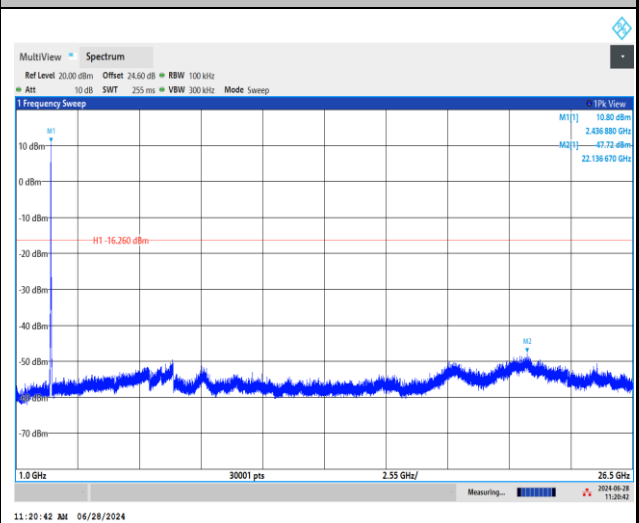


Middle Channel Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

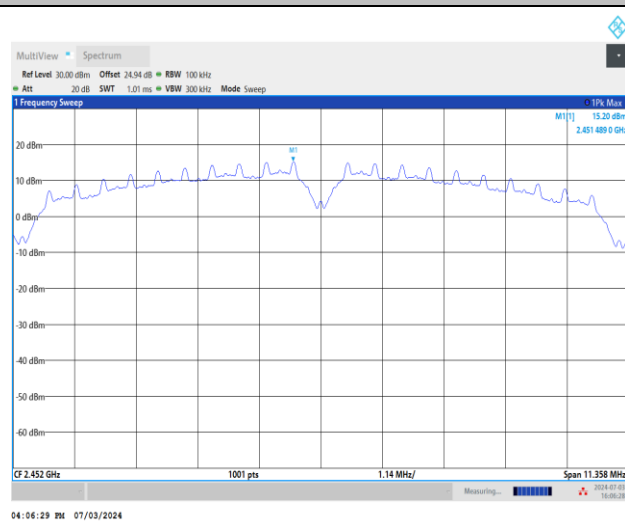




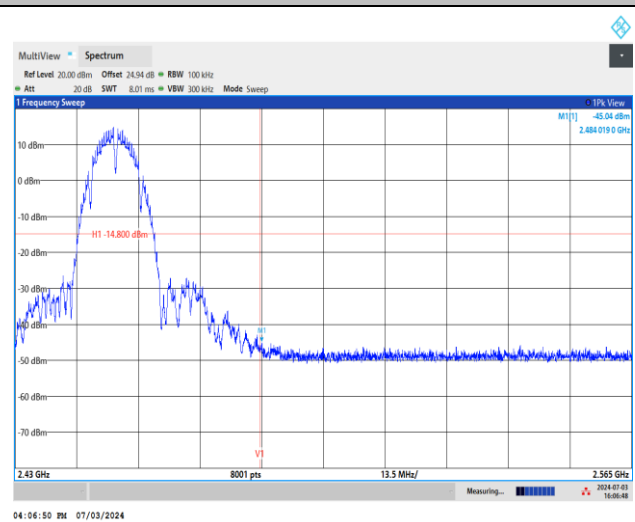
Test Mode : 802.11b

Test Channel : 09

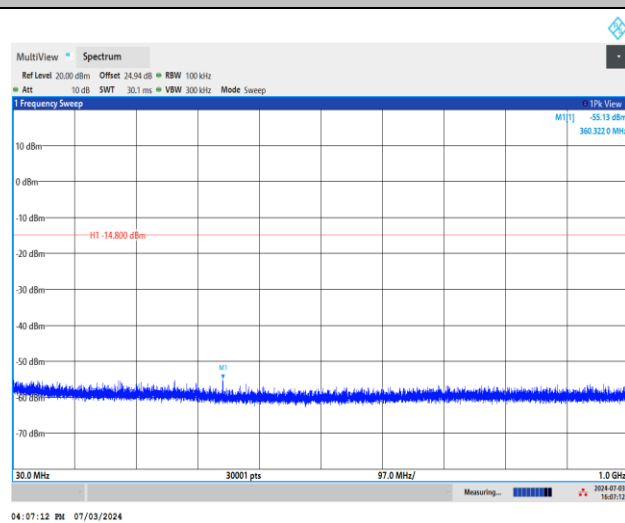
100kHz PSD reference Level



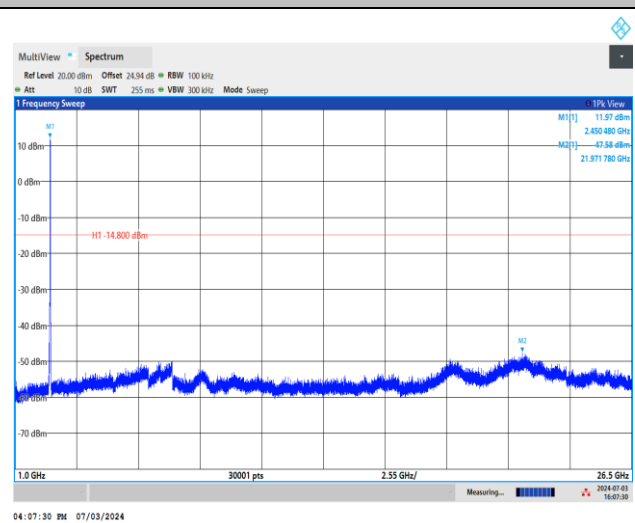
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

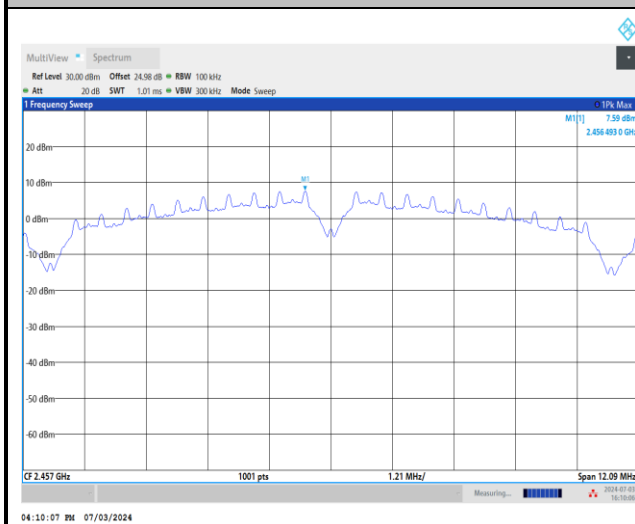




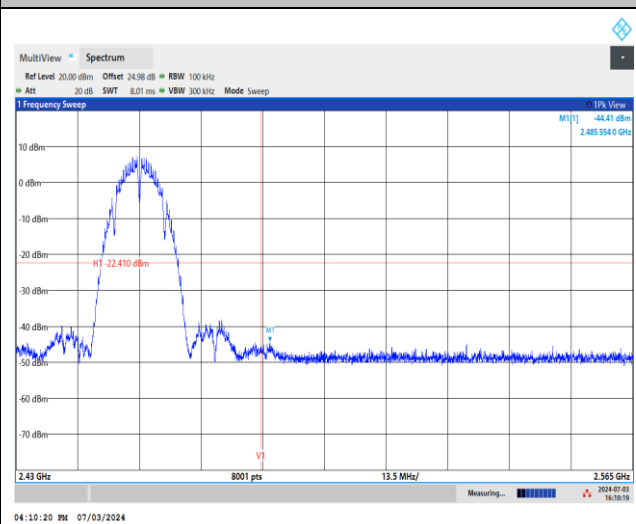
Test Mode : 802.11b

Test Channel : 10

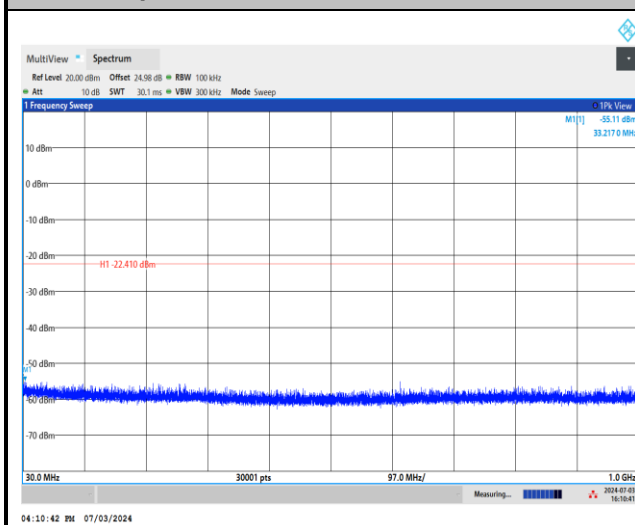
100kHz PSD reference Level



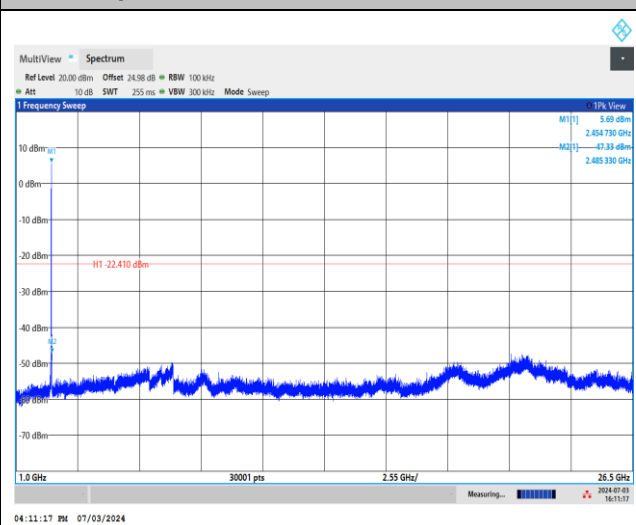
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

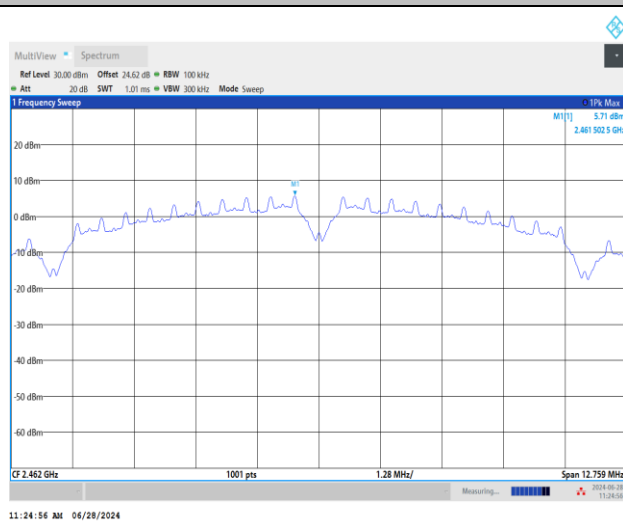




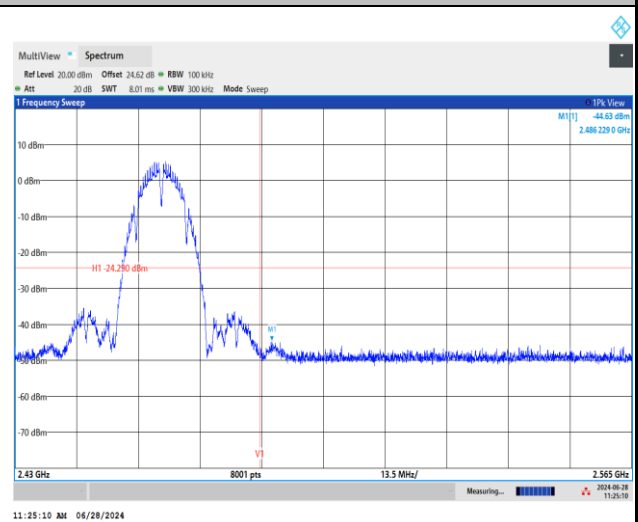
Test Mode : 802.11b

Test Channel : 11

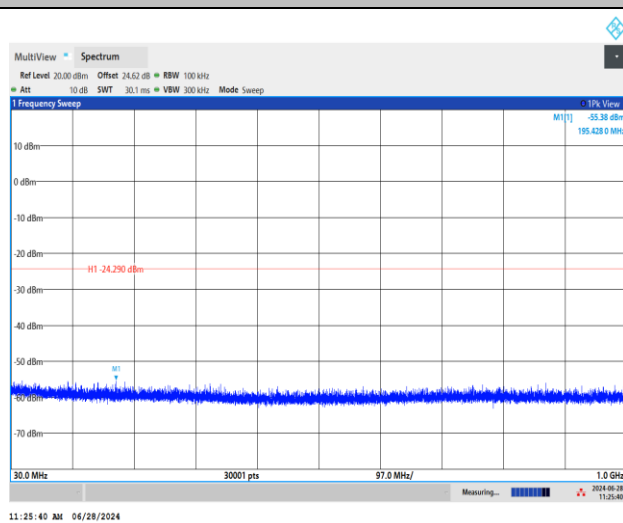
100kHz PSD reference Level



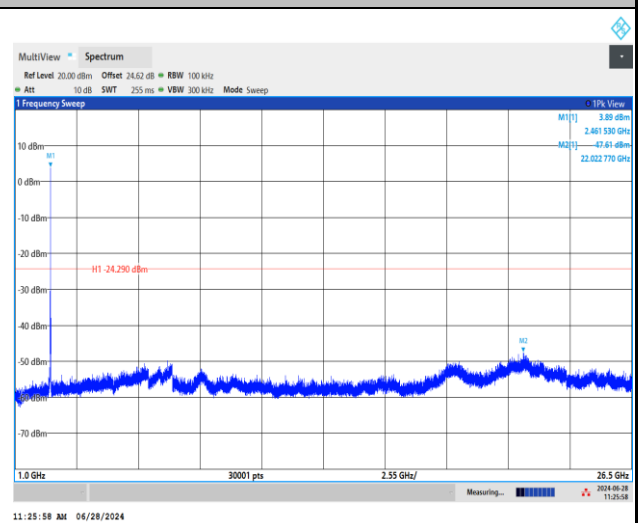
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

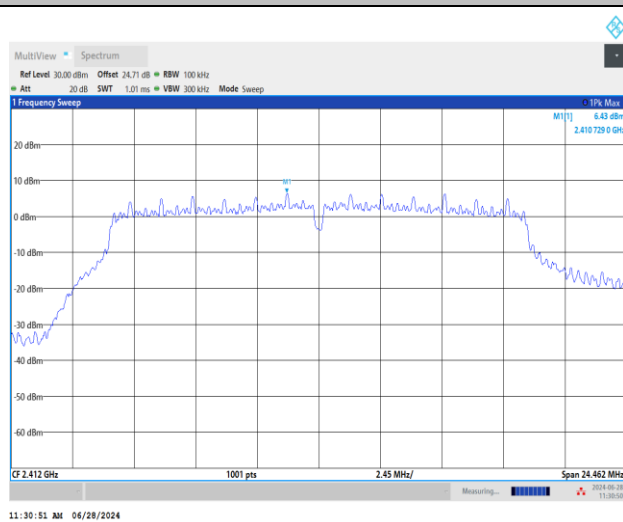




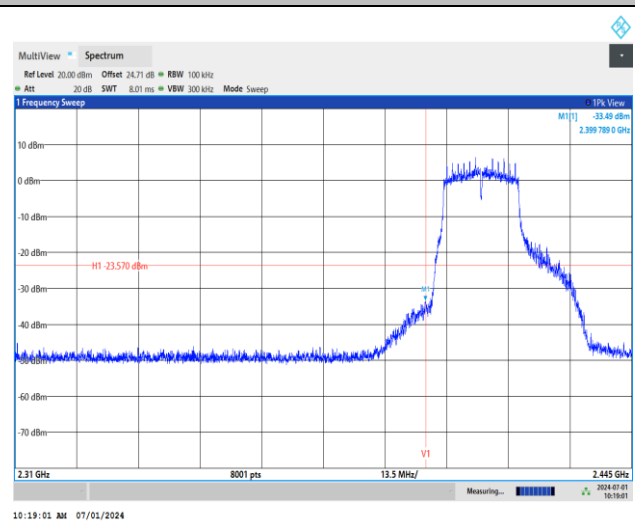
Test Mode : 802.11g

Test Channel : 01

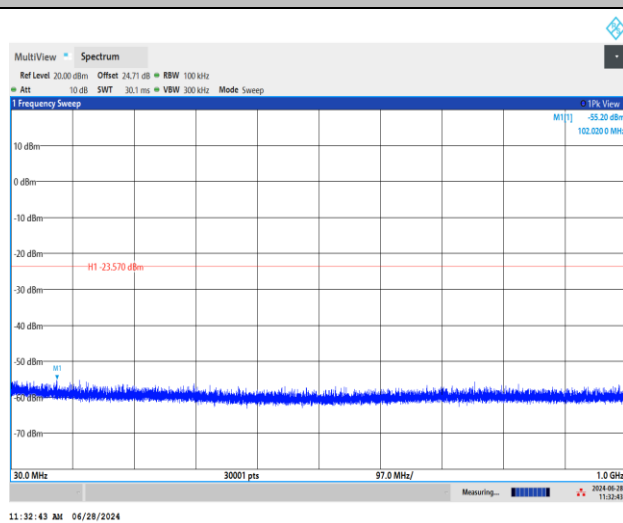
100kHz PSD reference Level



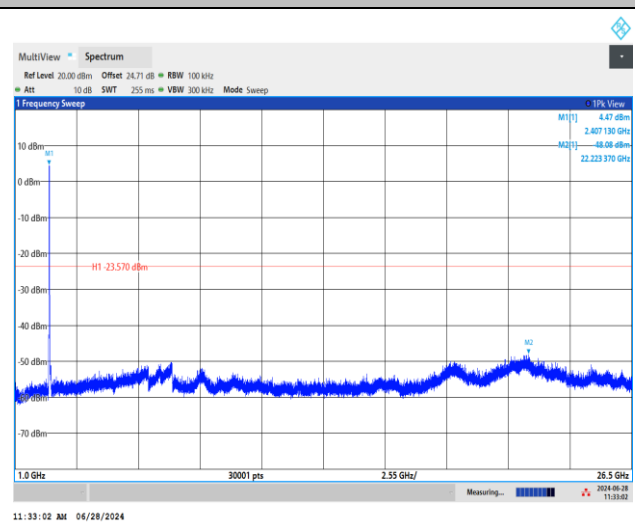
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

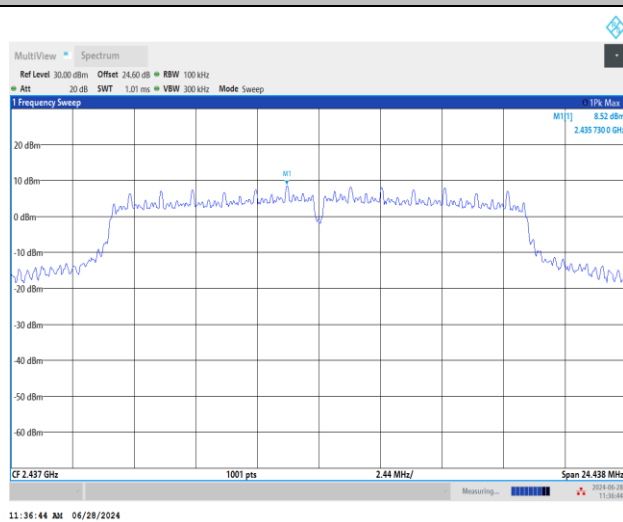




Test Mode : 802.11g

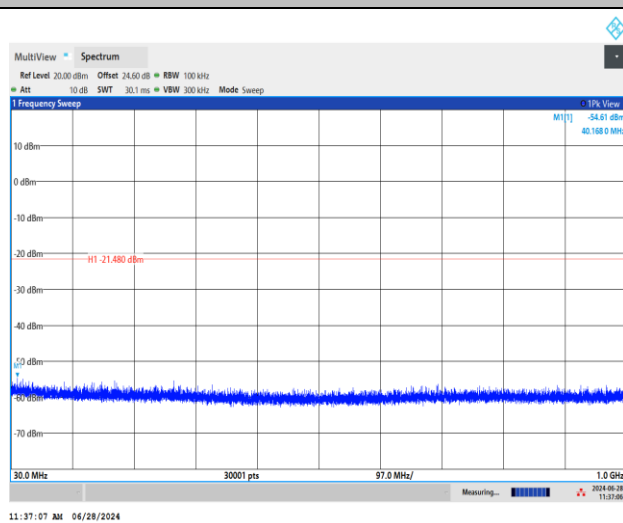
Test Channel : 06

100kHz PSD reference Level

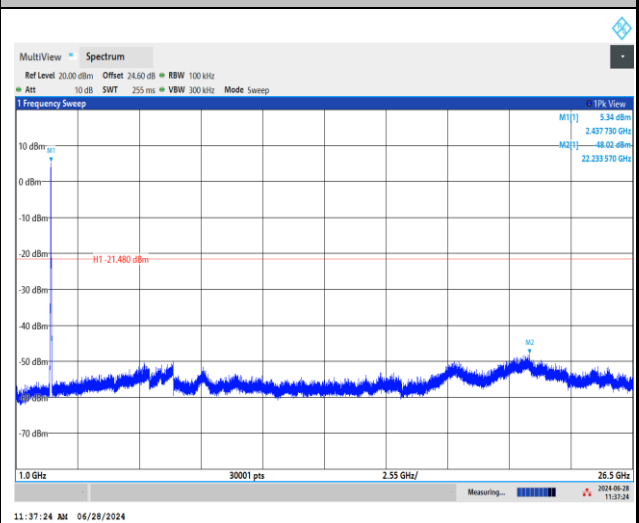


Middle Channel Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

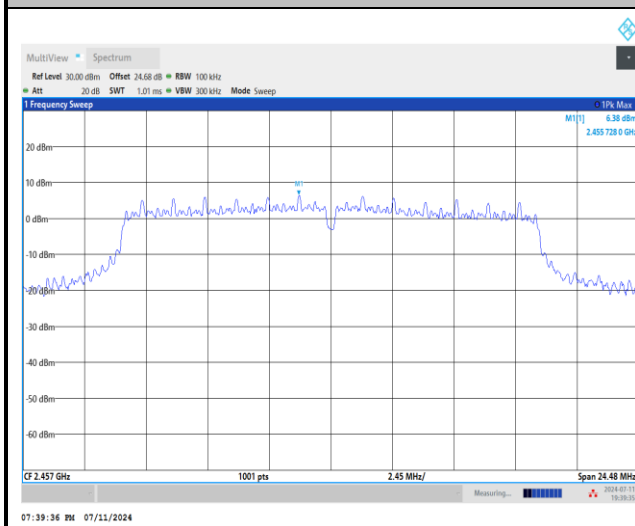




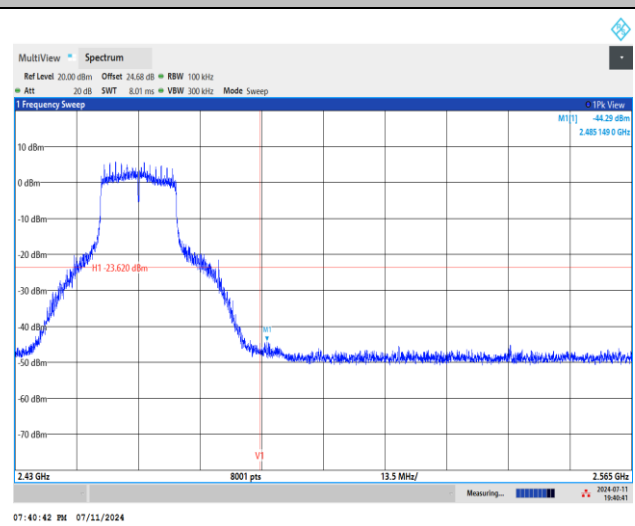
Test Mode : 802.11g

Test Channel : 10

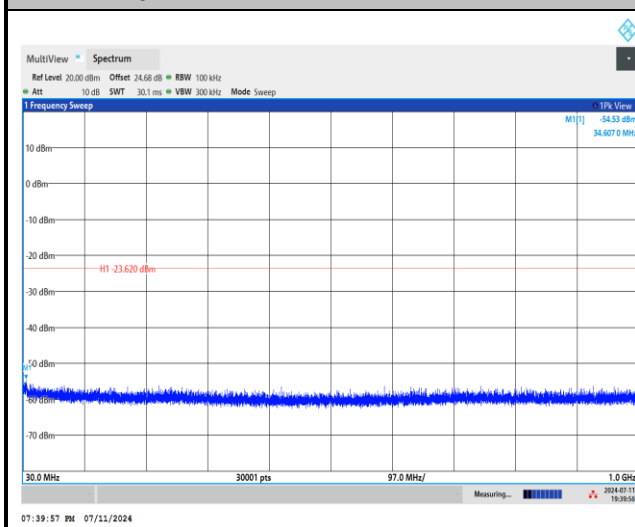
100kHz PSD reference Level



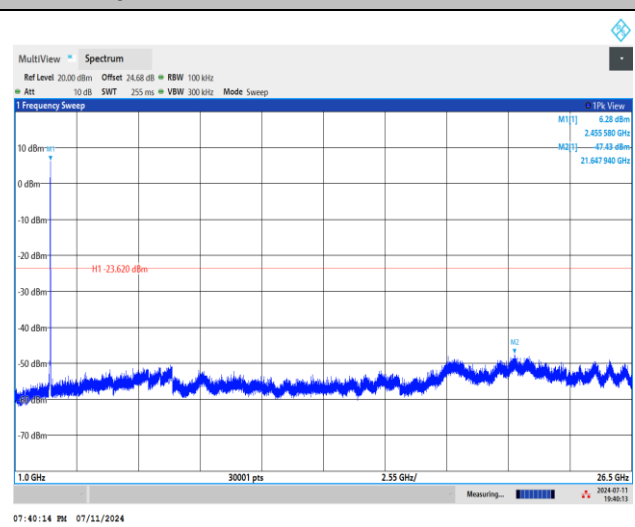
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

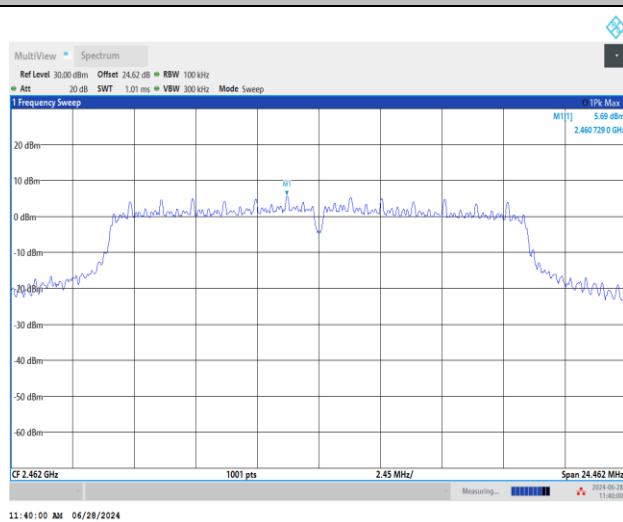




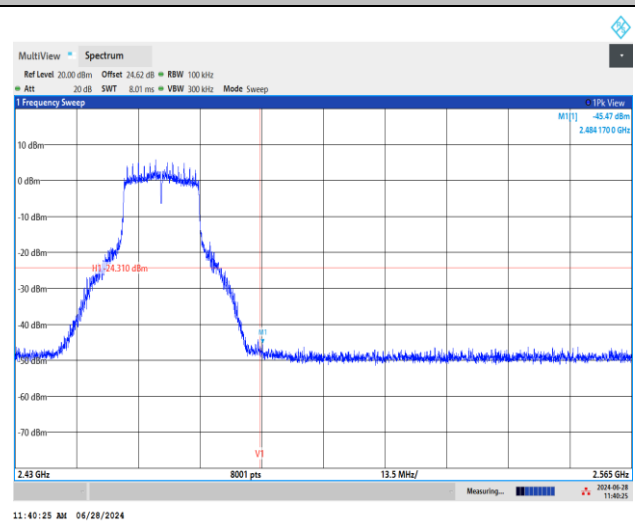
Test Mode : 802.11g

Test Channel : 11

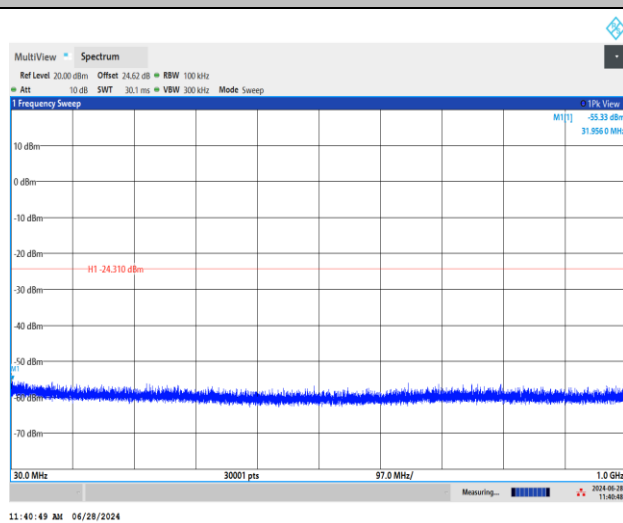
100kHz PSD reference Level



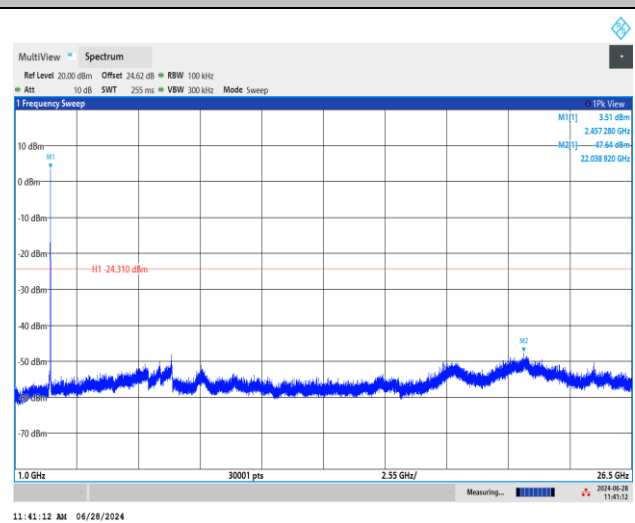
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

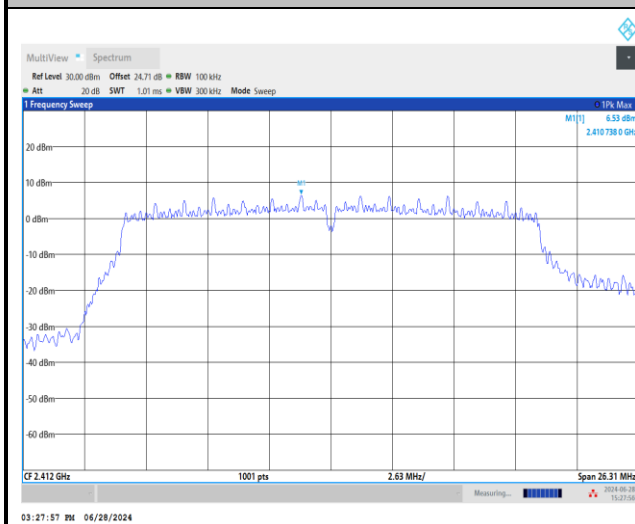




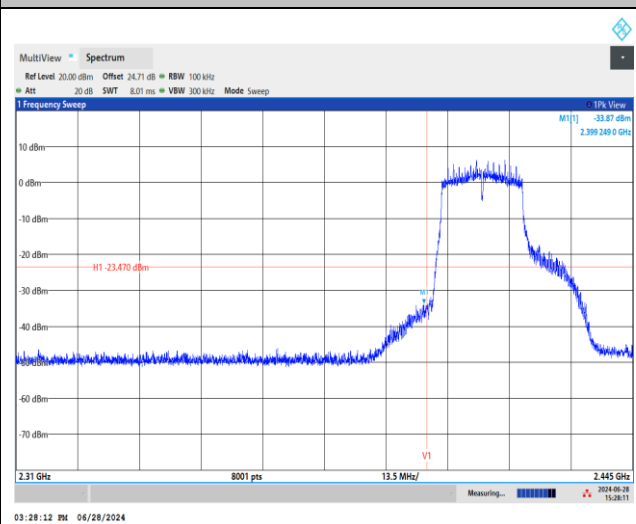
Test Mode : 802.11n HT20

Test Channel : 01

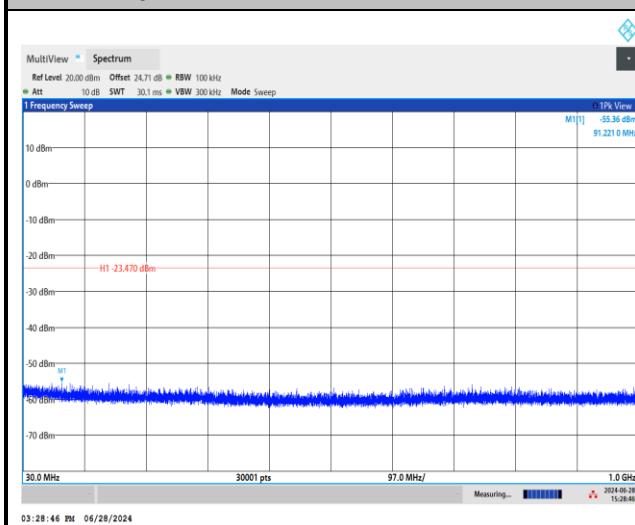
100kHz PSD reference Level



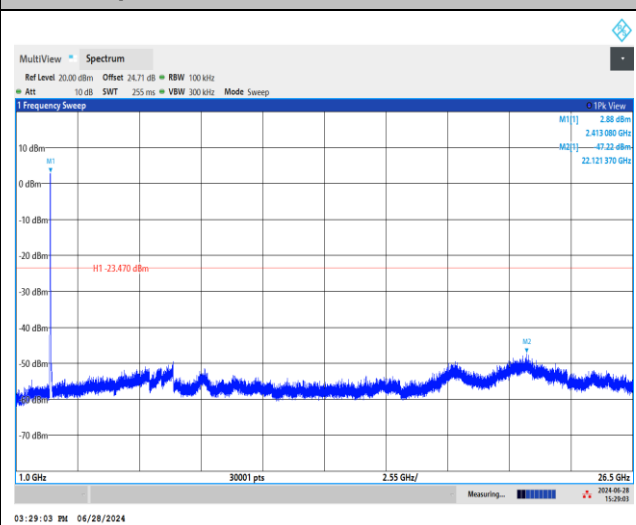
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

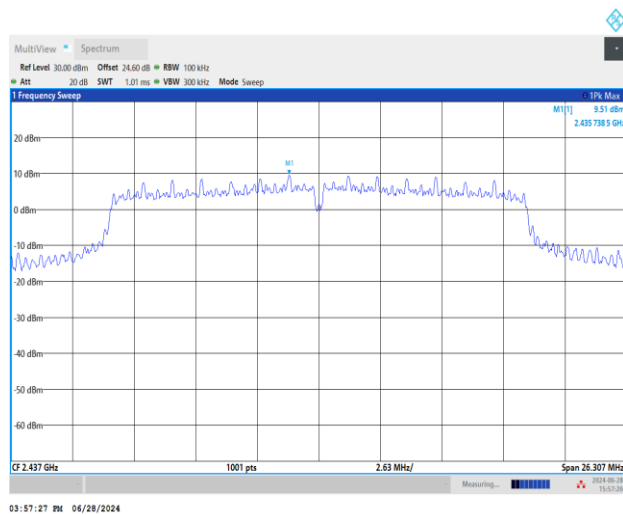




Test Mode : 802.11n HT20

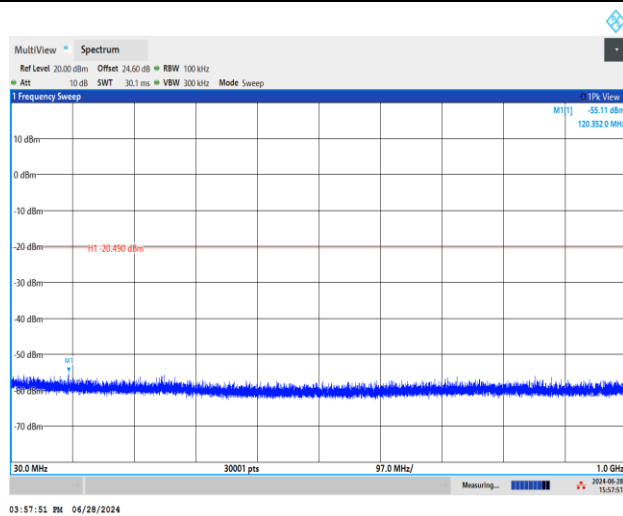
Test Channel : 06

100kHz PSD reference Level

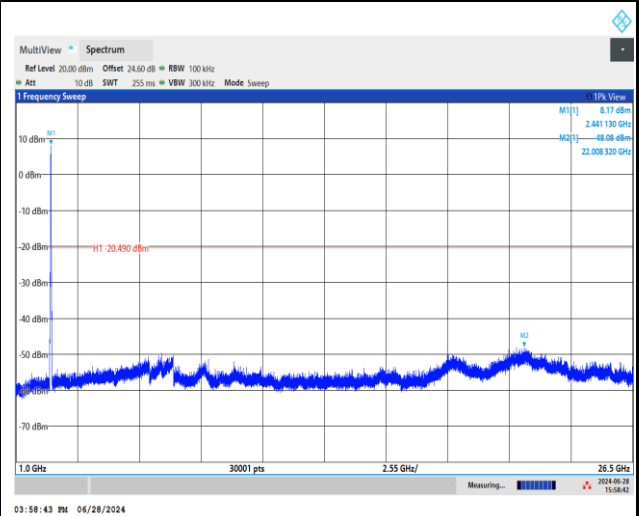


Middle Channel Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

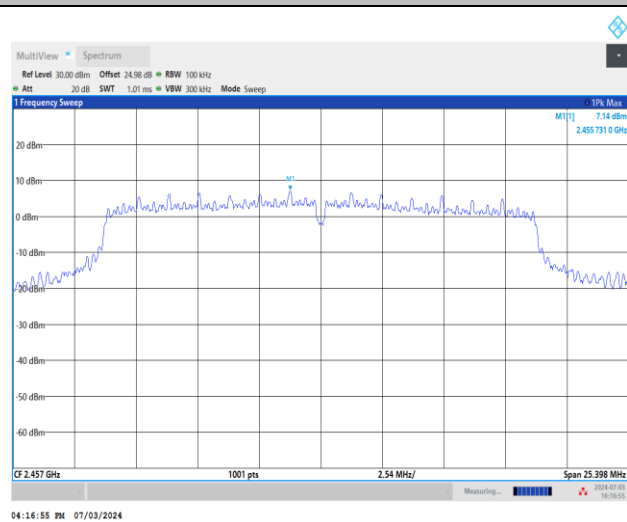




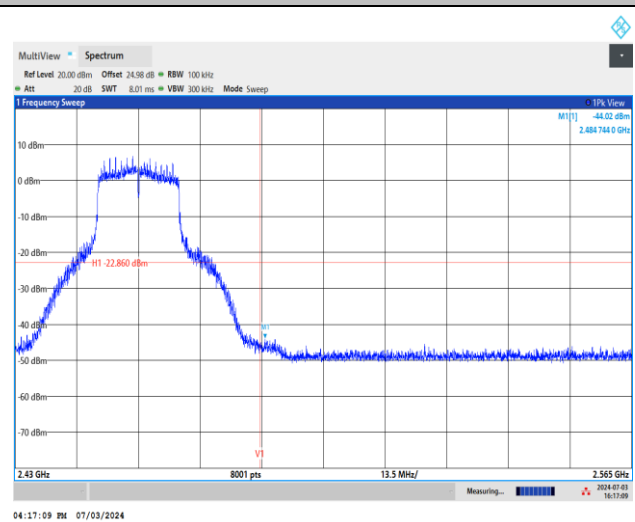
Test Mode : 802.11n HT20

Test Channel : 10

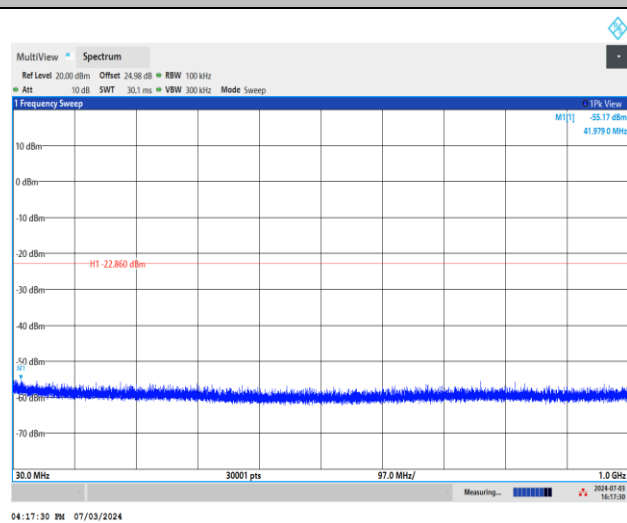
100kHz PSD reference Level



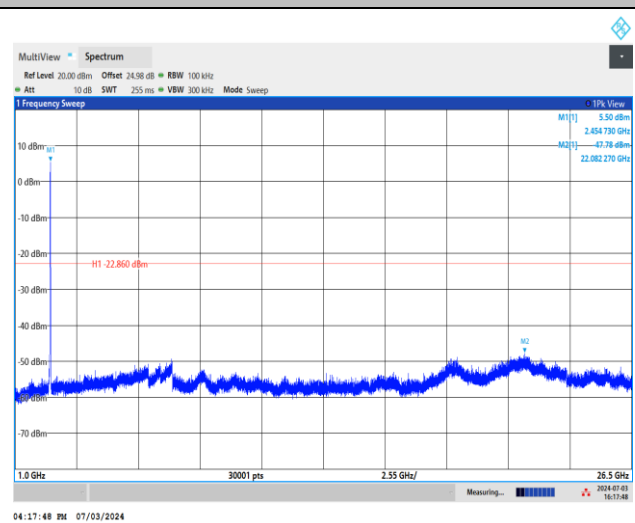
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

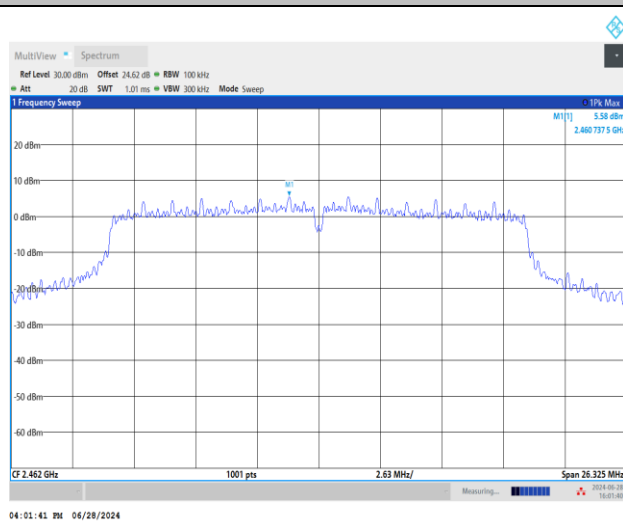




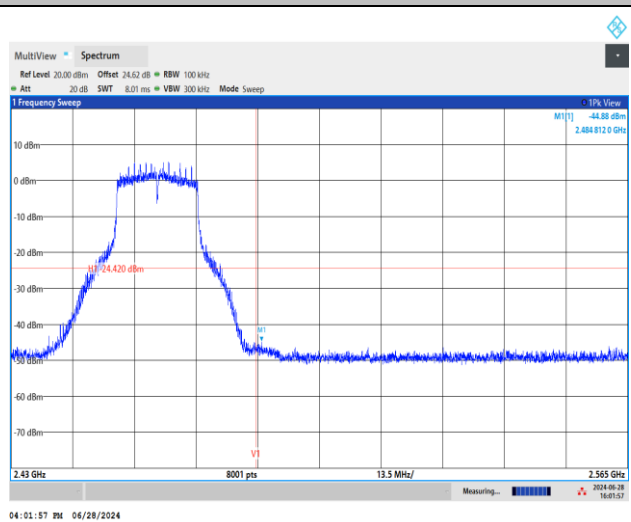
Test Mode : 802.11n HT20

Test Channel : 11

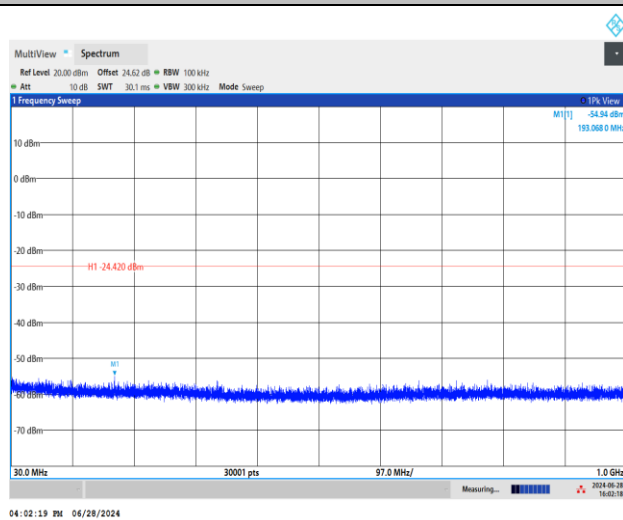
100kHz PSD reference Level



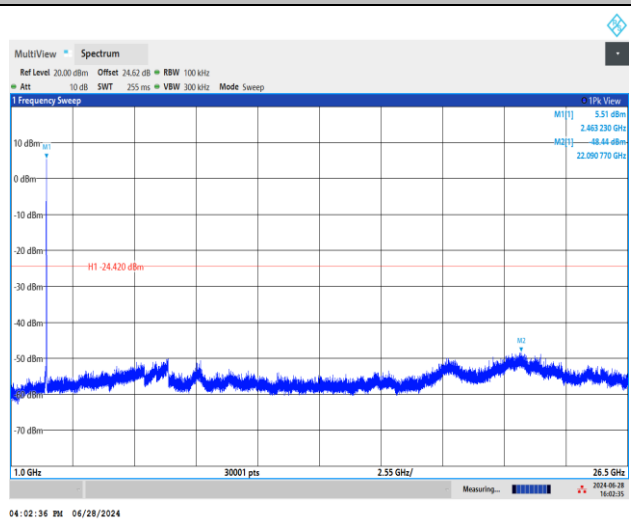
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

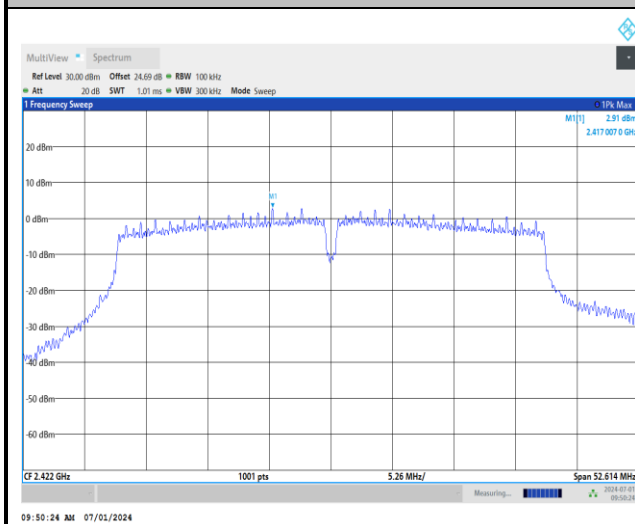




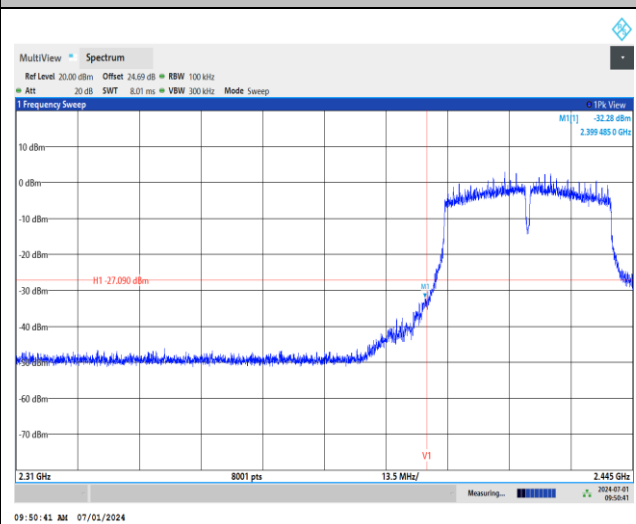
Test Mode : 802.11n HT40

Test Channel : 03

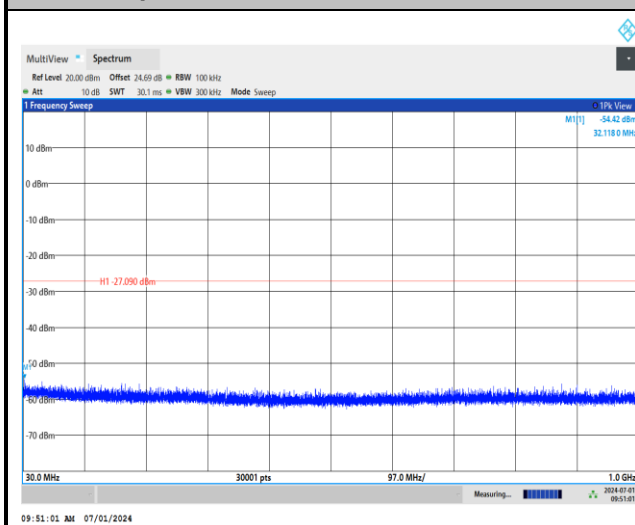
100kHz PSD reference Level



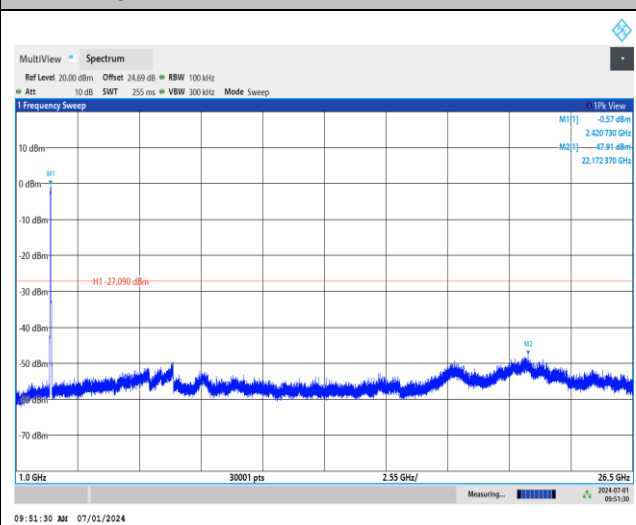
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

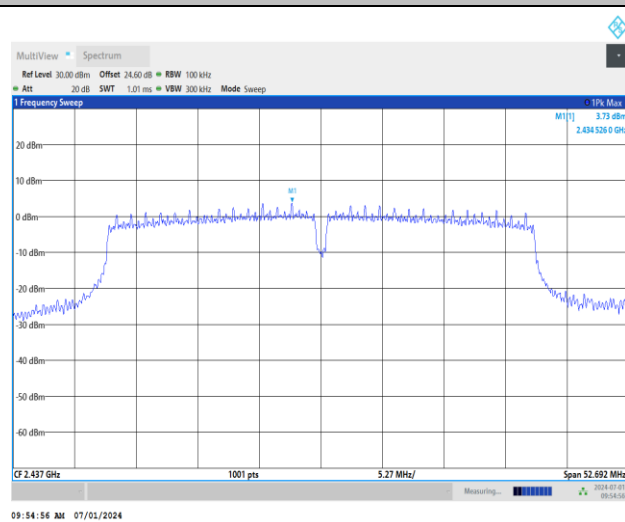




Test Mode : 802.11n HT40

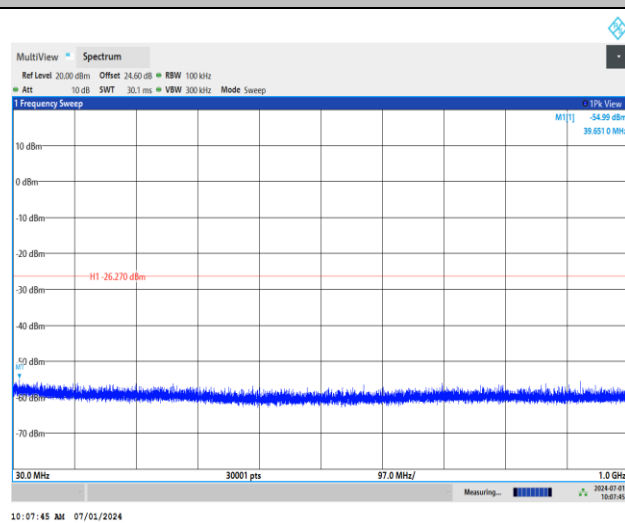
Test Channel : 06

100kHz PSD reference Level

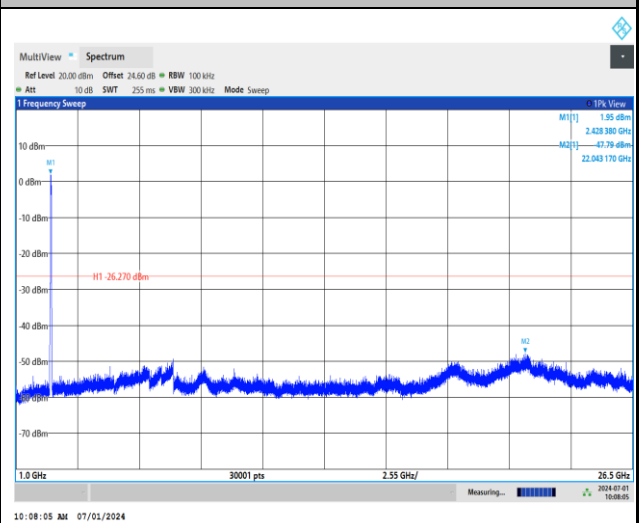


Middle Channel Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

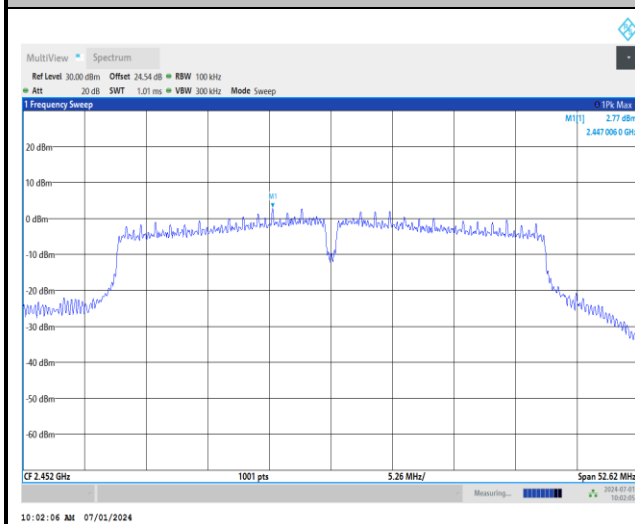




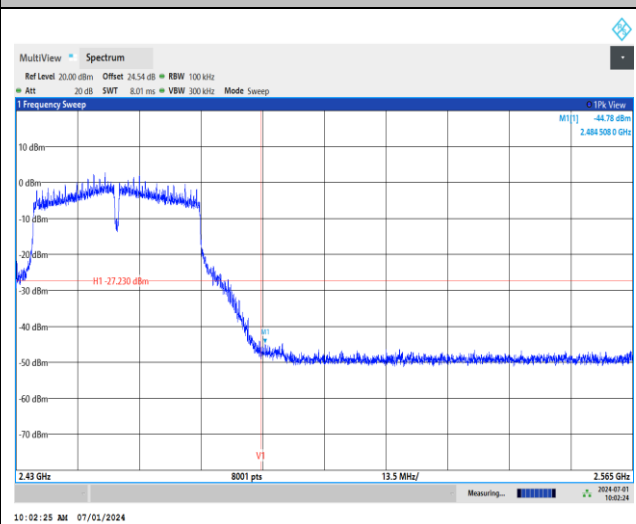
Test Mode : 802.11n HT40

Test Channel : 09

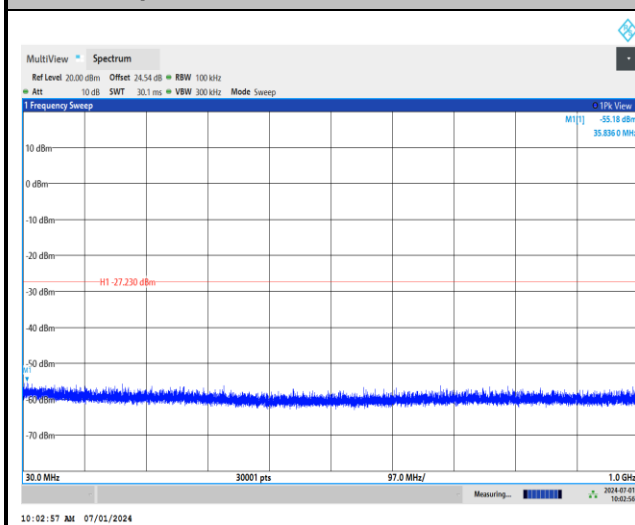
100kHz PSD reference Level



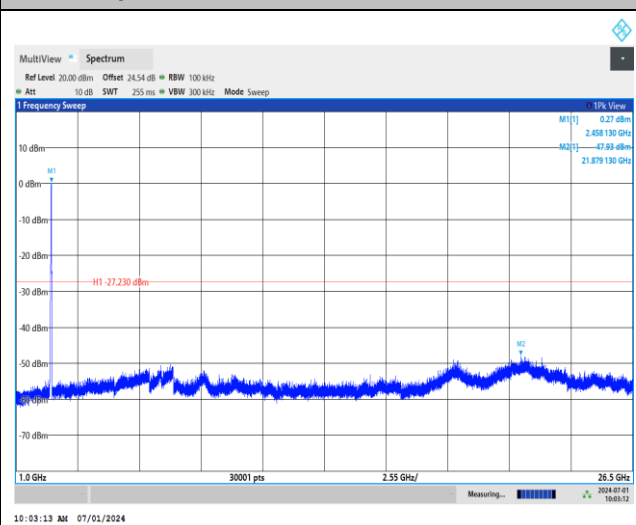
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

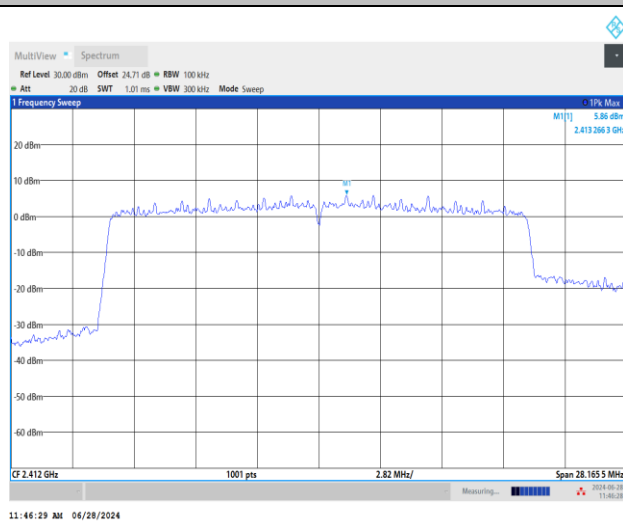




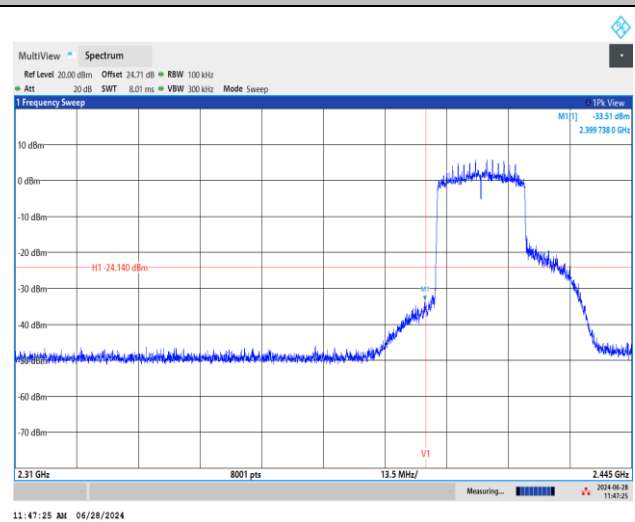
Test Mode : 802.11ax HE20_FullRU

Test Channel : 01

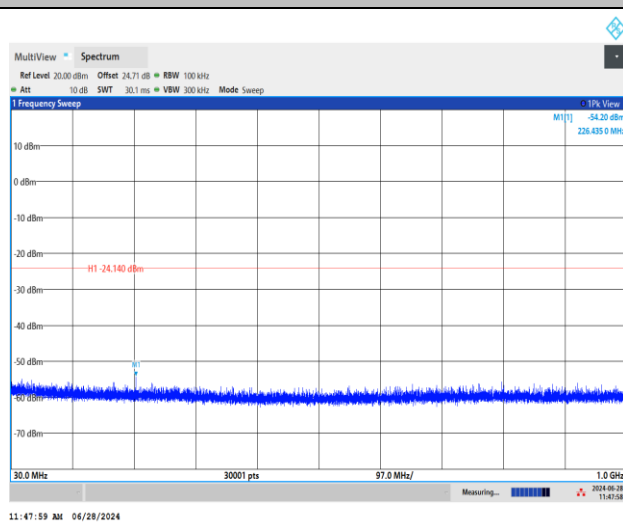
100kHz PSD reference Level



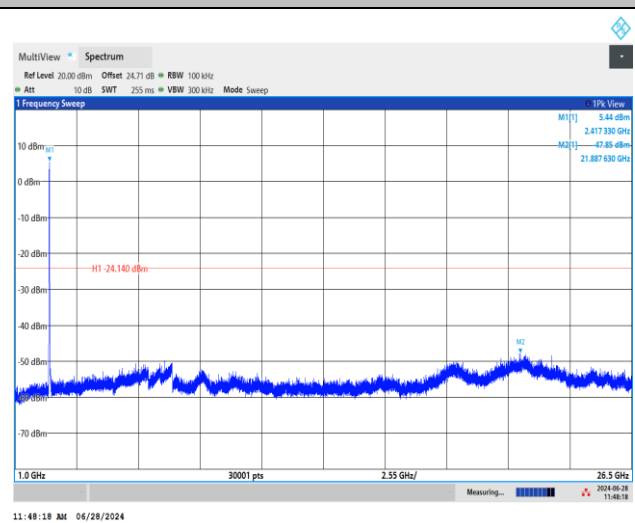
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

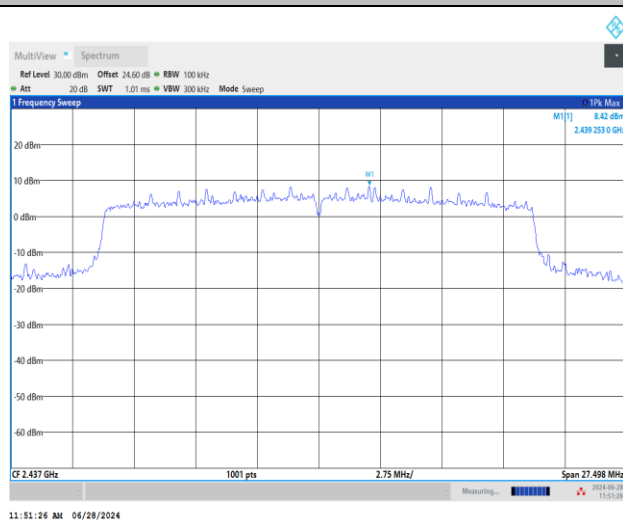




Test Mode : 802.11ax HE20_FullIRU

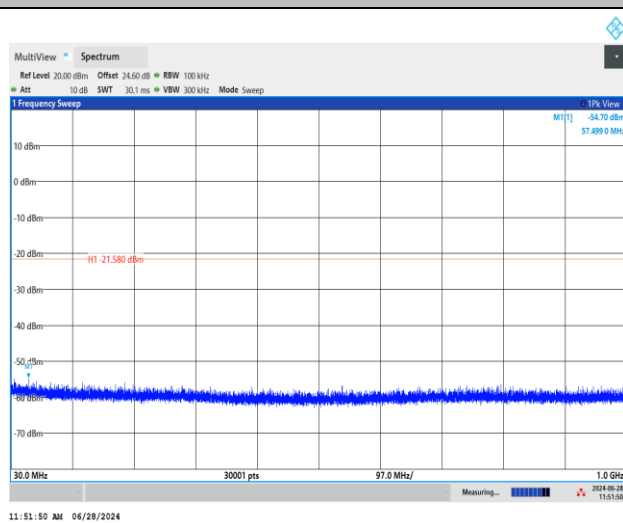
Test Channel : 06

100kHz PSD reference Level

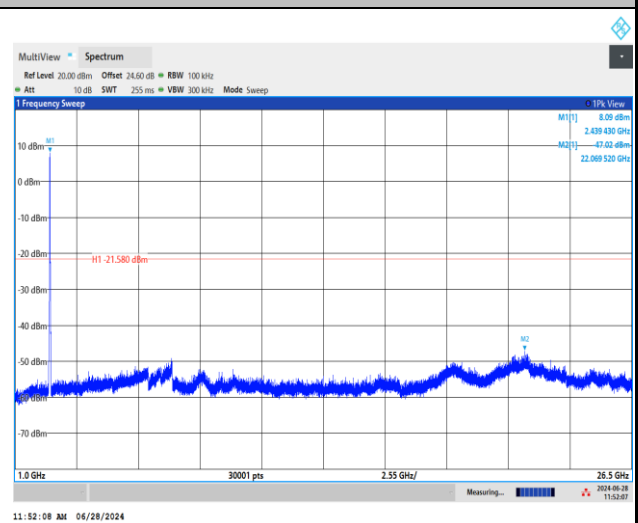


Middle Channel Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

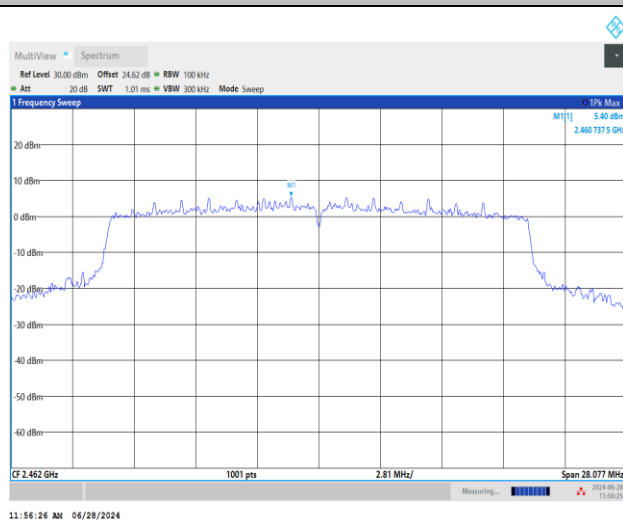




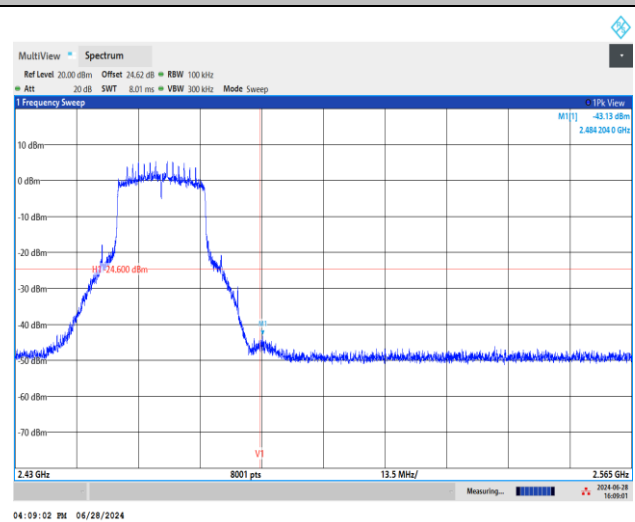
Test Mode : 802.11ax HE20_FullRU

Test Channel : 11

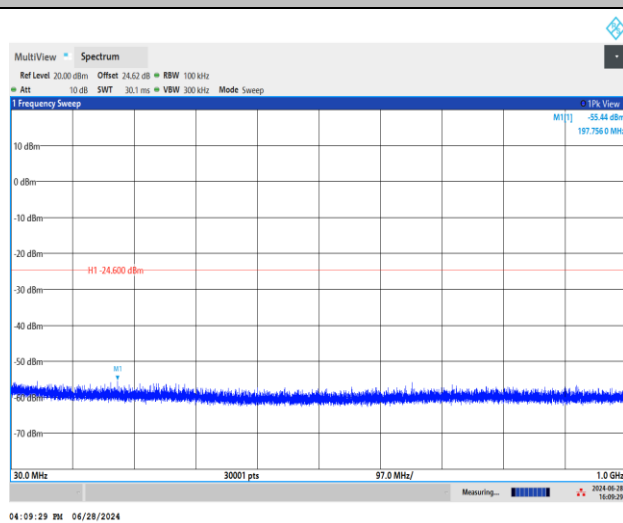
100kHz PSD reference Level



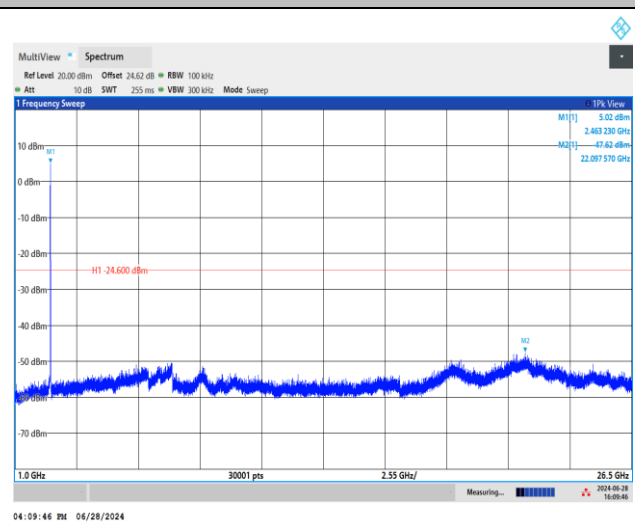
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

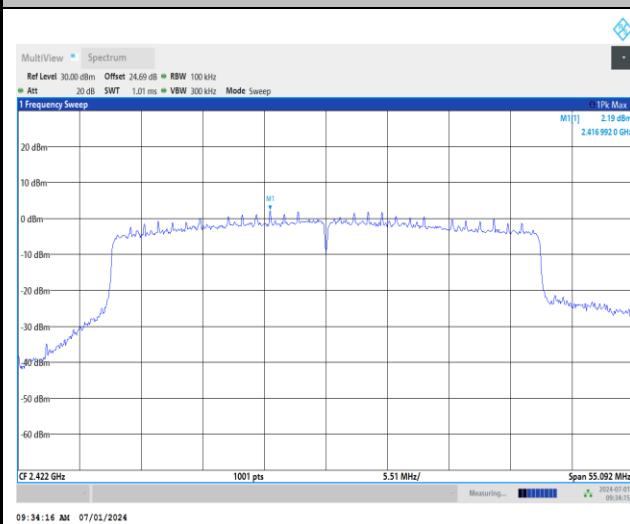




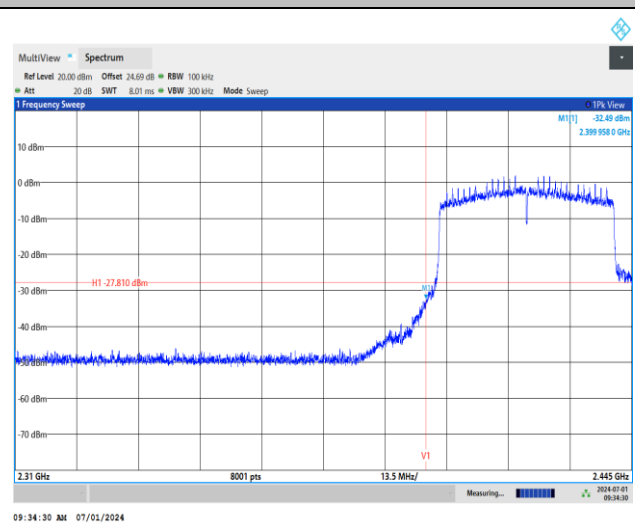
Test Mode : 802.11ax HE40_FullRU

Test Channel : 03

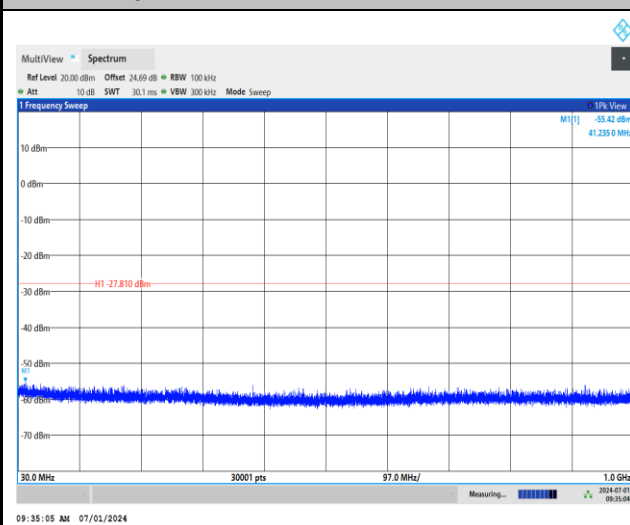
100kHz PSD reference Level



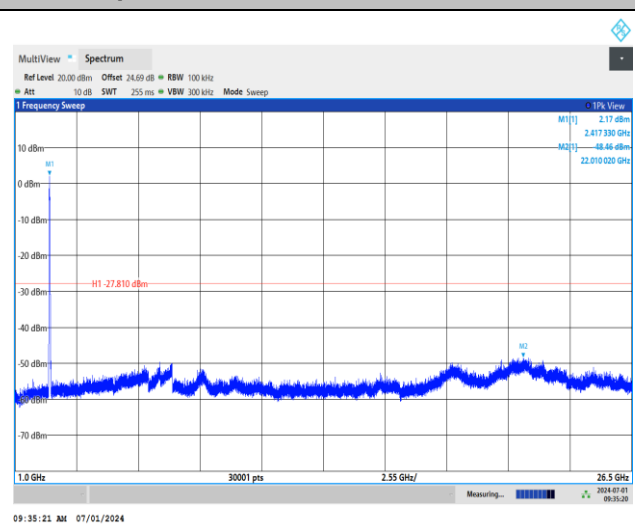
Low Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

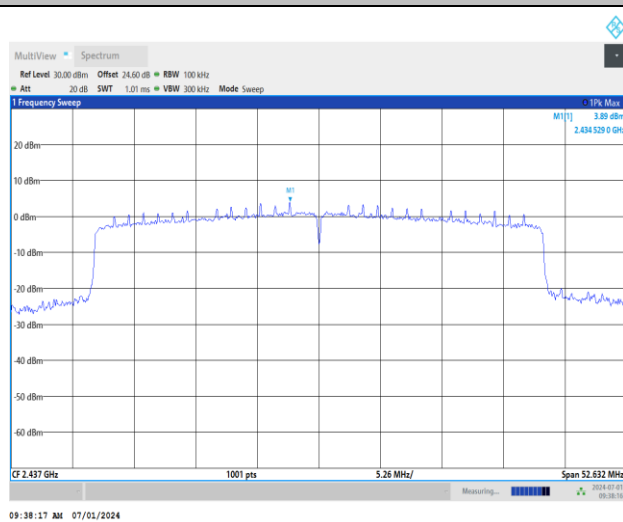




Test Mode : 802.11ax HE40_FullRU

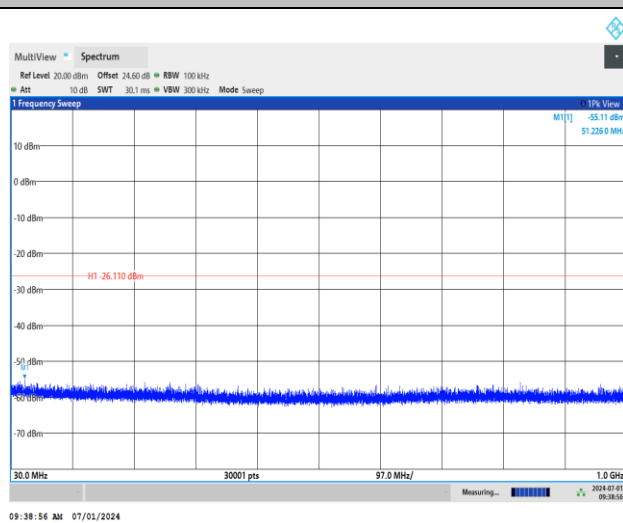
Test Channel : 06

100kHz PSD reference Level

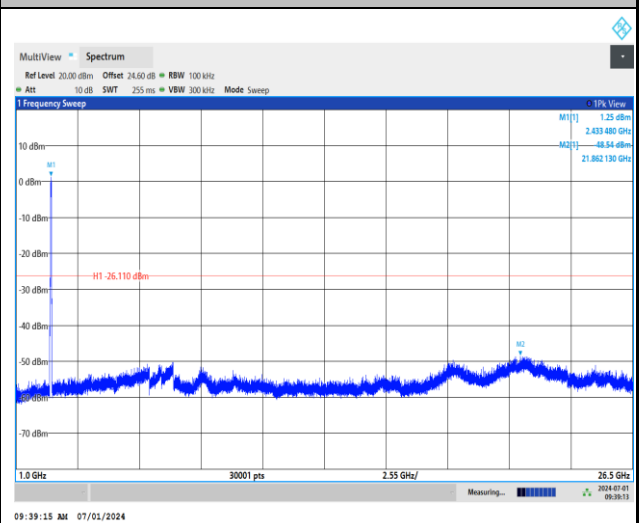


Middle Channel Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

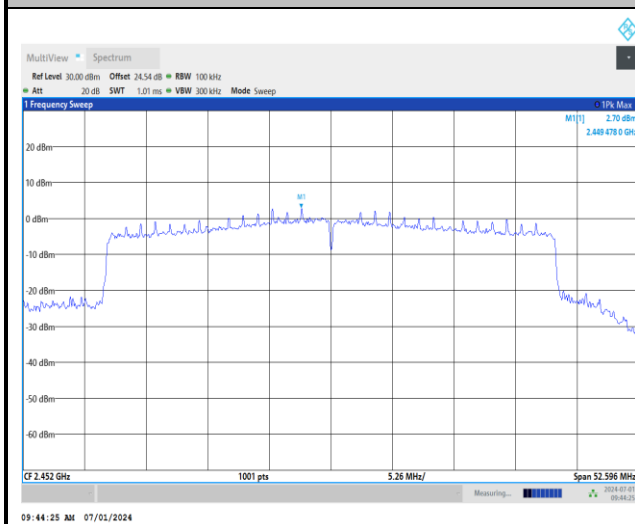




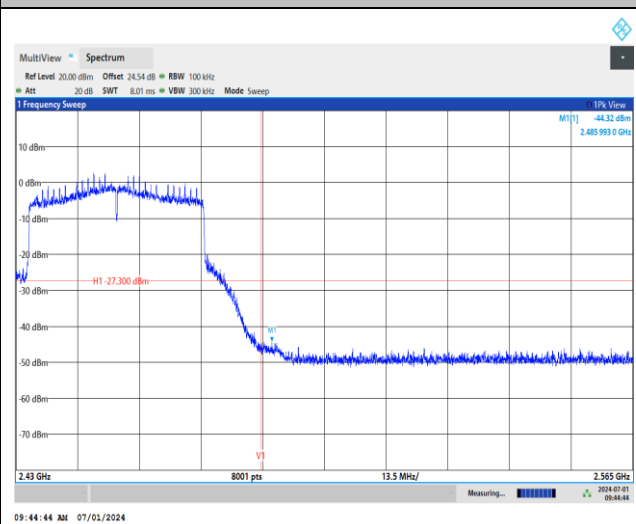
Test Mode : 802.11ax HE40_FullRU

Test Channel : 09

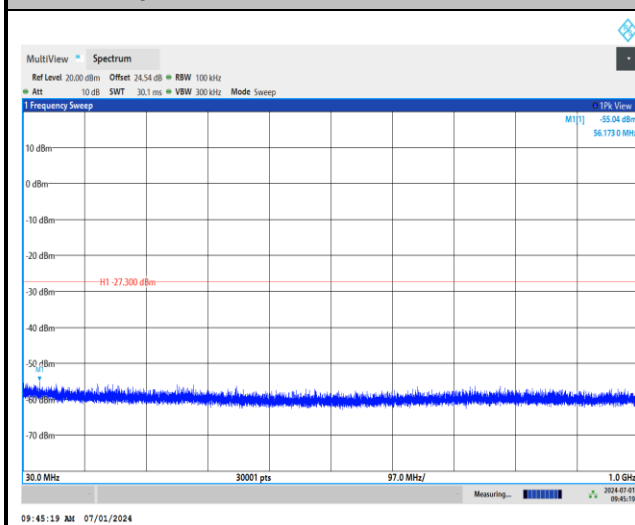
100kHz PSD reference Level



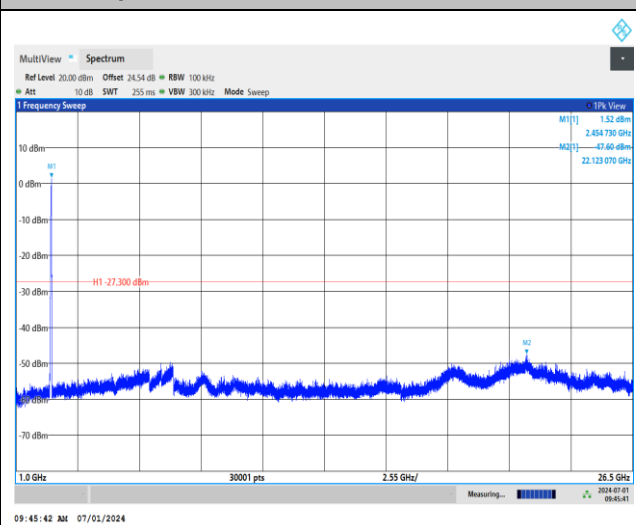
High Channel Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz





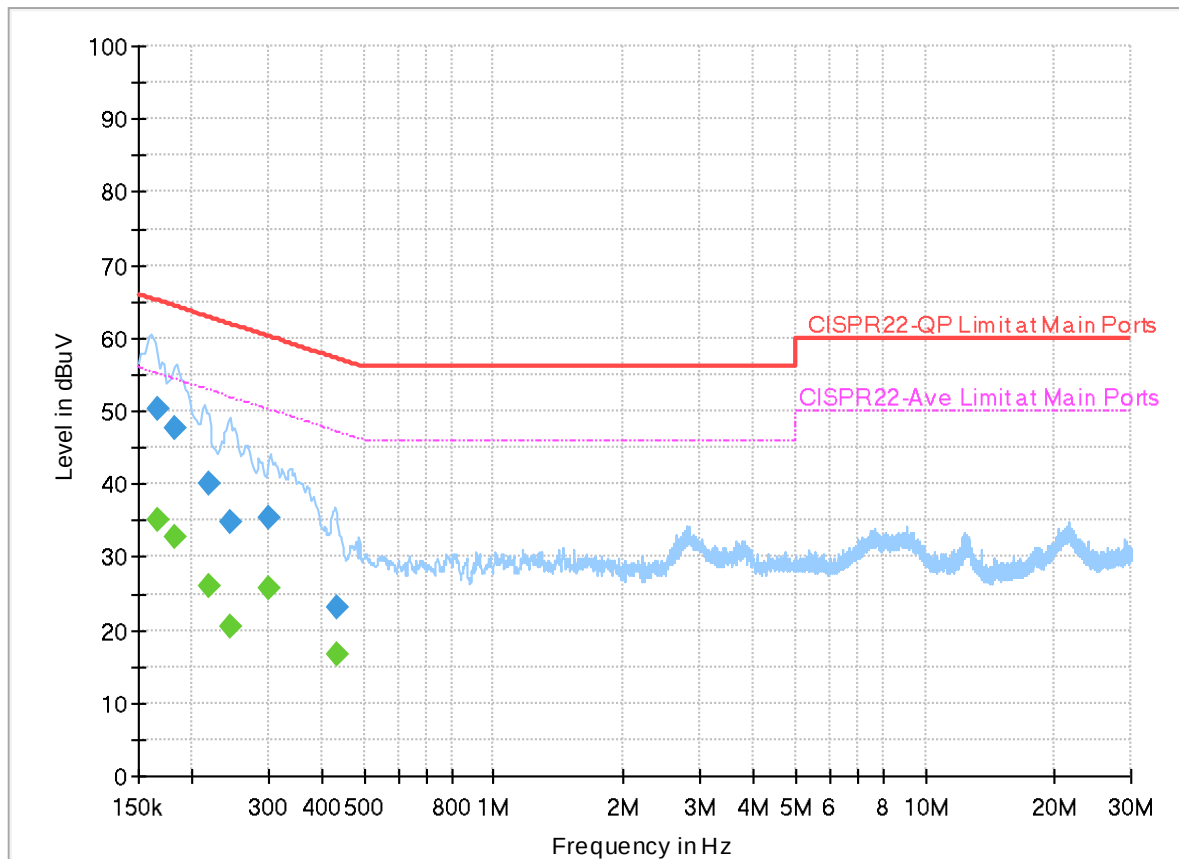
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.3~25.7°C
		Relative Humidity :	42.5~48.6%

EUT Information

Report NO : 450904
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



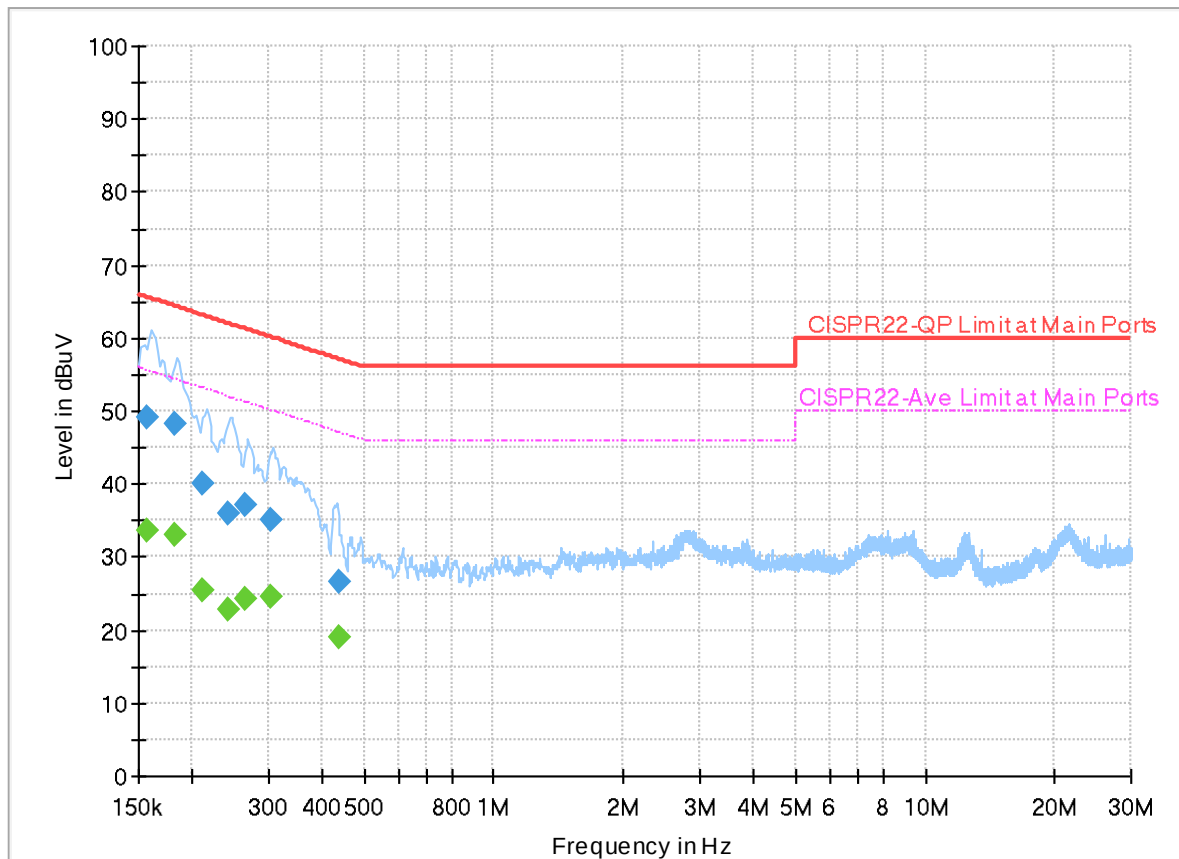
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	35.02	55.17	20.15	L1	OFF	19.9
0.165750	50.28	---	65.17	14.89	L1	OFF	19.9
0.181590	---	32.73	54.41	21.68	L1	OFF	19.9
0.181590	47.67	---	64.41	16.74	L1	OFF	19.9
0.217500	---	25.95	52.91	26.96	L1	OFF	19.9
0.217500	40.12	---	62.91	22.79	L1	OFF	19.9
0.245490	---	20.38	51.91	31.53	L1	OFF	19.9
0.245490	34.72	---	61.91	27.19	L1	OFF	19.9
0.300750	---	25.85	50.22	24.37	L1	OFF	19.9
0.300750	35.25	---	60.22	24.97	L1	OFF	19.9
0.433500	---	16.58	47.19	30.61	L1	OFF	19.9
0.433500	23.07	---	57.19	34.12	L1	OFF	19.9

EUT Information

Report NO : 450904
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	33.70	55.63	21.93	N	OFF	19.9
0.156750	49.25	---	65.63	16.38	N	OFF	19.9
0.182760	---	33.12	54.36	21.24	N	OFF	19.9
0.182760	48.13	---	64.36	16.23	N	OFF	19.9
0.212190	---	25.40	53.12	27.72	N	OFF	19.9
0.212190	40.07	---	63.12	23.05	N	OFF	19.9
0.242250	---	22.89	52.02	29.13	N	OFF	19.9
0.242250	36.08	---	62.02	25.94	N	OFF	19.9
0.266100	---	24.28	51.24	26.96	N	OFF	19.9
0.266100	37.09	---	61.24	24.15	N	OFF	19.9
0.303090	---	24.67	50.16	25.49	N	OFF	19.9
0.303090	35.14	---	60.16	25.02	N	OFF	19.9
0.437820	---	19.08	47.10	28.02	N	OFF	19.9
0.437820	26.74	---	57.10	30.36	N	OFF	19.9



Appendix C. Radiated Spurious Emission

Test Engineer :	Yuan Lee, Fu Chen and Troye Hsieh	Temperature :	19.9~21.2°C
		Relative Humidity :	51.1~65.9%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.905	57.09	-16.91	74	46.22	27.5	16.71	33.34	102	150	P	H
		2389.275	51.11	-2.89	54	40.25	27.49	16.71	33.34	102	150	A	H
	*	2412	118.49	-	-	107.57	27.5	16.74	33.32	102	150	P	H
	*	2412	115.3	-	-	104.38	27.5	16.74	33.32	102	150	A	H
													H
													H
		2390	58.49	-15.51	74	47.62	27.5	16.71	33.34	331	166	P	V
		2390	53.13	-0.87	54	42.26	27.5	16.71	33.34	331	166	A	V
	*	2412	119.78	-	-	108.86	27.5	16.74	33.32	331	166	P	V
	*	2412	116.75	-	-	105.83	27.5	16.74	33.32	331	166	A	V
													V
													V
802.11b CH 06 2437MHz		2389.36	56.62	-17.38	74	45.76	27.49	16.71	33.34	108	148	P	H
		2390	50	-4	54	39.13	27.5	16.71	33.34	108	148	A	H
	*	2437	113.36	-	-	102.3	27.6	16.77	33.31	108	148	P	H
	*	2437	110.07	-	-	99.01	27.6	16.77	33.31	108	148	A	H
		2484.16	56.25	-17.75	74	44.99	27.7	16.84	33.28	108	148	P	H
		2485.52	49.43	-4.57	54	38.17	27.7	16.84	33.28	108	148	A	H
		2389.84	54.23	-19.77	74	43.36	27.5	16.71	33.34	351	188	P	V
		2390	46.76	-7.24	54	35.89	27.5	16.71	33.34	351	188	A	V
	*	2437	117.93	-	-	106.87	27.6	16.77	33.31	351	188	P	V
	*	2437	114.85	-	-	103.79	27.6	16.77	33.31	351	188	A	V
		2483.6	55.12	-18.88	74	43.86	27.7	16.84	33.28	351	188	P	V
		2483.52	48.45	-5.55	54	37.19	27.7	16.84	33.28	351	188	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 09 2452MHz	*	2452	107.89	-	-	96.89	27.5	16.8	33.3	194	195	P	H
	*	2452	104.6	-	-	93.6	27.5	16.8	33.3	194	195	A	H
		2484.11	55.79	-18.21	74	44.53	27.7	16.84	33.28	194	195	P	H
		2484.25	48.55	-5.45	54	37.29	27.7	16.84	33.28	194	195	A	H
													H
													H
	*	2452	117.3	-	-	106.3	27.5	16.8	33.3	331	171	P	V
	*	2452	114.05	-	-	103.05	27.5	16.8	33.3	331	171	A	V
		2484.04	59.44	-14.56	74	48.18	27.7	16.84	33.28	331	171	P	V
		2487.82	52.91	-1.09	54	41.64	27.7	16.85	33.28	331	171	A	V
													V
													V
802.11b CH 10 2457MHz	*	2457	103.83	-	-	92.83	27.5	16.8	33.3	170	202	P	H
	*	2457	100.84	-	-	89.84	27.5	16.8	33.3	170	202	A	H
		2483.55	56.68	-17.32	74	45.42	27.7	16.84	33.28	170	202	P	H
		2483.76	49.88	-4.12	54	38.62	27.7	16.84	33.28	170	202	A	H
													H
													H
	*	2457	105.21	-	-	94.21	27.5	16.8	33.3	331	187	P	V
	*	2457	102.91	-	-	91.91	27.5	16.8	33.3	331	187	A	V
		2483.69	58.28	-15.72	74	47.02	27.7	16.84	33.28	331	187	P	V
		2483.69	53.12	-0.88	54	41.86	27.7	16.84	33.28	331	187	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 11 2462MHz	*	2462	108.37	-	-	97.33	27.52	16.81	33.29	130	205	P	H
	*	2462	105.41	-	-	94.37	27.52	16.81	33.29	130	205	A	H
		2486.2	55.67	-18.33	74	44.41	27.7	16.84	33.28	130	205	P	H
		2486.08	47.94	-6.06	54	36.68	27.7	16.84	33.28	130	205	A	H
													H
													H
	*	2462	105.17	-	-	94.13	27.52	16.81	33.29	352	188	P	V
	*	2462	102.59	-	-	91.55	27.52	16.81	33.29	352	188	A	V
		2486.28	58.57	-15.43	74	47.3	27.7	16.85	33.28	352	188	P	V
		2486.8	52.72	-1.28	54	41.45	27.7	16.85	33.28	352	188	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	45.66	-28.34	74	59.54	32.54	12.12	58.54	150	322	P	H
		4824	42.15	-11.85	54	56.03	32.54	12.12	58.54	150	322	A	H
													H
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													H
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													H
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		4824	42.63	-31.37	74	56.51	32.54	12.12	58.54	-	-	P	V
													V
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WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 06 2437MHz		4874	46.51	-27.49	74	60.25	32.7	12.14	58.58	285	312	P	H
		4874	42.85	-11.15	54	56.59	32.7	12.14	58.58	285	312	A	H
		7311	43.4	-30.6	74	50.33	36.86	15.2	58.99	-	-	P	H
													H
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													H
		4874	-13.74	-87.74	74	0	32.7	12.14	58.58	396	19	P	V
		4874	38.8	-15.2	54	52.54	32.7	12.14	58.58	396	19	A	V
		7311	43.91	-30.09	74	50.84	36.86	15.2	58.99	-	-	P	V
													V
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WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 11 2462MHz		4924	39.64	-34.36	74	53.28	32.84	12.14	58.62	-	-	P	H
		7386	41.67	-32.33	74	48.87	36.48	15.26	58.94	-	-	P	H
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		4924	39.92	-34.08	74	53.56	32.84	12.14	58.62	-	-	P	V
		7386	42.63	-31.37	74	49.83	36.48	15.26	58.94	-	-	P	V
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2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.905	60.1	-13.9	74	49.23	27.5	16.71	33.34	126	213	P	H
		2389.8	49.26	-4.74	54	38.39	27.5	16.71	33.34	126	213	A	H
	*	2412	114.72	-	-	103.8	27.5	16.74	33.32	126	213	P	H
	*	2412	107.64	-	-	96.72	27.5	16.74	33.32	126	213	A	H
													H
													H
		2389.8	62.03	-11.97	74	51.16	27.5	16.71	33.34	335	171	P	V
		2390	51.69	-2.31	54	40.82	27.5	16.71	33.34	335	171	A	V
	*	2412	116.59	-	-	105.67	27.5	16.74	33.32	335	171	P	V
	*	2412	109.38	-	-	98.46	27.5	16.74	33.32	335	171	A	V
													V
													V
802.11g CH 06 2437MHz		2389.84	58.06	-15.94	74	47.19	27.5	16.71	33.34	104	212	P	H
		2390	46.05	-7.95	54	35.18	27.5	16.71	33.34	104	212	A	H
	*	2437	115.52	-	-	104.46	27.6	16.77	33.31	104	212	P	H
	*	2437	108.57	-	-	97.51	27.6	16.77	33.31	104	212	A	H
		2484.72	64.19	-9.81	74	52.93	27.7	16.84	33.28	104	212	P	H
		2483.84	50.65	-3.35	54	39.39	27.7	16.84	33.28	104	212	A	H
		2389.68	59.53	-14.47	74	48.66	27.5	16.71	33.34	349	181	P	V
		2389.84	46.73	-7.27	54	35.86	27.5	16.71	33.34	349	181	A	V
	*	2437	117.06	-	-	106	27.6	16.77	33.31	349	181	P	V
	*	2437	109.35	-	-	98.29	27.6	16.77	33.31	349	181	A	V
		2483.76	65.81	-8.19	74	54.55	27.7	16.84	33.28	349	181	P	V
		2483.52	52.39	-1.61	54	41.13	27.7	16.84	33.28	349	181	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 10 2457MHz	*	2457	112.44	-	-	101.44	27.5	16.8	33.3	103	159	P	H
	*	2457	104.59	-	-	93.59	27.5	16.8	33.3	103	159	A	H
		2483.9	62.35	-11.65	74	51.09	27.7	16.84	33.28	103	159	P	H
		2483.5	50.44	-3.56	54	39.18	27.7	16.84	33.28	103	159	A	H
													H
													H
	*	2457	114.87	-	-	103.87	27.5	16.8	33.3	351	180	P	V
	*	2457	107.52	-	-	96.52	27.5	16.8	33.3	351	180	A	V
		2483.7	64.22	-9.78	74	52.96	27.7	16.84	33.28	351	180	P	V
		2483.75	53.23	-0.77	54	41.97	27.7	16.84	33.28	351	180	A	V
													V
													V
802.11g CH 11 2462MHz	*	2462	107.19	-	-	96.15	27.52	16.81	33.29	344	243	P	H
	*	2462	99.87	-	-	88.83	27.52	16.81	33.29	344	243	A	H
		2483.76	63.19	-10.81	74	51.93	27.7	16.84	33.28	344	243	P	H
		2483.56	50.02	-3.98	54	38.76	27.7	16.84	33.28	344	243	A	H
													H
													H
	*	2462	113.29	-	-	102.25	27.52	16.81	33.29	356	171	P	V
	*	2462	105.85	-	-	94.81	27.52	16.81	33.29	356	171	A	V
		2483.84	65.71	-8.29	74	54.45	27.7	16.84	33.28	356	171	P	V
		2483.56	53.17	-0.83	54	41.91	27.7	16.84	33.28	356	171	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 06 2437MHz		4874	39.27	-34.73	74	53.01	32.7	12.14	58.58	-	-	P	H
		7311	41.56	-32.44	74	48.49	36.86	15.2	58.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	40.34	-33.66	74	54.08	32.7	12.14	58.58	-	-	P	V
		7311	42.52	-31.48	74	49.45	36.86	15.2	58.99	-	-	P	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz		4924	40.41	-33.59	74	54.05	32.84	12.14	58.62	-	-	P	H
		7386	42.05	-31.95	74	49.25	36.48	15.26	58.94	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4924	40.7	-33.3	74	54.34	32.84	12.14	58.62	-	-	P	V
		7386	42.2	-31.8	74	49.4	36.48	15.26	58.94	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2390	60.87	-13.13	74	50	27.5	16.71	33.34	103	211	P	H
		2389.8	49.31	-4.69	54	38.44	27.5	16.71	33.34	103	211	A	H
	*	2412	113.5	-	-	102.58	27.5	16.74	33.32	103	211	P	H
	*	2412	106.52	-	-	95.6	27.5	16.74	33.32	103	211	A	H
													H
													H
		2390	64.8	-9.2	74	53.93	27.5	16.71	33.34	329	169	P	V
		2390	53.26	-0.74	54	42.39	27.5	16.71	33.34	329	169	A	V
	*	2412	115.11	-	-	104.19	27.5	16.74	33.32	329	169	P	V
	*	2412	108.28	-	-	97.36	27.5	16.74	33.32	329	169	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.36	62.5	-11.5	74	51.64	27.49	16.71	33.34	100	146	P	H
		2389.84	48.48	-5.52	54	37.61	27.5	16.71	33.34	100	146	A	H
	*	2437	117.2	-	-	106.14	27.6	16.77	33.31	100	146	P	H
	*	2437	109.79	-	-	98.73	27.6	16.77	33.31	100	146	A	H
		2484.64	68.22	-5.78	74	56.96	27.7	16.84	33.28	100	146	P	H
		2484.24	50.27	-3.73	54	39.01	27.7	16.84	33.28	100	146	A	H
		2389.52	64.82	-9.18	74	53.95	27.5	16.71	33.34	300	170	P	V
		2390	50.87	-3.13	54	40	27.5	16.71	33.34	300	170	A	V
	*	2437	117.16	-	-	106.1	27.6	16.77	33.31	300	170	P	V
	*	2437	110.2	-	-	99.14	27.6	16.77	33.31	300	170	A	V
		2486.4	67.64	-6.36	74	56.37	27.7	16.85	33.28	300	170	P	V
		2484.88	52.73	-1.27	54	41.47	27.7	16.84	33.28	300	170	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 11 2462MHz	*	2457	112.08	-	-	101.08	27.5	16.8	33.3	100	214	P	H
	*	2457	104.27	-	-	93.27	27.5	16.8	33.3	100	214	A	H
		2486.6	60.76	-13.24	74	49.49	27.7	16.85	33.28	100	214	P	H
		2484.15	50.13	-3.87	54	38.87	27.7	16.84	33.28	100	214	A	H
													H
													H
	*	2457	113.84	-	-	102.84	27.5	16.8	33.3	331	181	P	V
	*	2457	106.72	-	-	95.72	27.5	16.8	33.3	331	181	A	V
		2483.6	64.65	-9.35	74	53.39	27.7	16.84	33.28	331	181	P	V
		2483.55	53.24	-0.76	54	41.98	27.7	16.84	33.28	331	181	A	V
													V
													V
802.11n HT20 CH 11 2462MHz	*	2462	112.13	-	-	101.09	27.52	16.81	33.29	105	211	P	H
	*	2462	104.55	-	-	93.51	27.52	16.81	33.29	105	211	A	H
		2484.76	62.72	-11.28	74	51.46	27.7	16.84	33.28	105	211	P	H
		2484.48	50.15	-3.85	54	38.89	27.7	16.84	33.28	105	211	A	H
													H
													H
	*	2462	113.02	-	-	101.98	27.52	16.81	33.29	397	186	P	V
	*	2462	105.59	-	-	94.55	27.52	16.81	33.29	397	186	A	V
		2486.52	65.07	-8.93	74	53.8	27.7	16.85	33.28	397	186	P	V
		2483.52	52.83	-1.17	54	41.57	27.7	16.84	33.28	397	186	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	40.78	-33.22	74	54.66	32.54	12.12	58.54	-	-	P	H
													H
													H
													H
													H
													H
		4824	40.6	-33.4	74	54.48	32.54	12.12	58.54	-	-	P	V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 06 2437MHz		4874	40.24	-33.76	74	53.98	32.7	12.14	58.58	-	-	P	H
		7311	43.25	-30.75	74	50.18	36.86	15.2	58.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	40.06	-33.94	74	53.8	32.7	12.14	58.58	-	-	P	V
		7311	43.23	-30.77	74	50.16	36.86	15.2	58.99	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2390	61.8	-12.2	74	50.93	27.5	16.71	33.34	150	143	P	H
		2390	51.35	-2.65	54	40.48	27.5	16.71	33.34	150	143	A	H
	*	2422	111.59	-	-	100.64	27.52	16.75	33.32	150	143	P	H
	*	2422	104.03	-	-	93.08	27.52	16.75	33.32	150	143	A	H
		2485.92	54.5	-19.5	74	43.24	27.7	16.84	33.28	150	143	P	H
		2485.52	45.34	-8.66	54	34.08	27.7	16.84	33.28	150	143	A	H
		2389.84	62.74	-11.26	74	51.87	27.5	16.71	33.34	300	182	P	V
		2389.52	52.76	-1.24	54	41.89	27.5	16.71	33.34	300	182	A	V
	*	2422	110.66	-	-	99.71	27.52	16.75	33.32	300	182	P	V
	*	2422	103.47	-	-	92.52	27.52	16.75	33.32	300	182	A	V
		2488	56.21	-17.79	74	44.94	27.7	16.85	33.28	300	182	P	V
		2484.64	46.73	-7.27	54	35.47	27.7	16.84	33.28	300	182	A	V
802.11n HT40 CH 06 2437MHz		2390	59.89	-14.11	74	49.02	27.5	16.71	33.34	100	148	P	H
		2390	48.24	-5.76	54	37.37	27.5	16.71	33.34	100	148	A	H
	*	2437	111.29	-	-	100.23	27.6	16.77	33.31	100	148	P	H
	*	2437	104.19	-	-	93.13	27.6	16.77	33.31	100	148	A	H
		2485.04	62.71	-11.29	74	51.45	27.7	16.84	33.28	100	148	P	H
		2483.6	49.97	-4.03	54	38.71	27.7	16.84	33.28	100	148	A	H
		2389.84	61.21	-12.79	74	50.34	27.5	16.71	33.34	300	169	P	V
		2389.2	49.01	-4.99	54	38.15	27.49	16.71	33.34	300	169	A	V
	*	2437	111.18	-	-	100.12	27.6	16.77	33.31	300	169	P	V
	*	2437	104.08	-	-	93.02	27.6	16.77	33.31	300	169	A	V
		2484.32	64.21	-9.79	74	52.95	27.7	16.84	33.28	300	169	P	V
		2483.68	52.22	-1.78	54	40.96	27.7	16.84	33.28	300	169	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2381.36	53.59	-20.41	74	42.81	27.41	16.71	33.34	150	203	P	H
		2389.04	43.3	-10.7	54	32.44	27.49	16.71	33.34	150	203	A	H
	*	2452	108.66	-	-	97.66	27.5	16.8	33.3	150	203	P	H
	*	2452	101.19	-	-	90.19	27.5	16.8	33.3	150	203	A	H
		2486.08	59.7	-14.3	74	48.44	27.7	16.84	33.28	150	203	P	H
		2483.92	50.01	-3.99	54	38.75	27.7	16.84	33.28	150	203	A	H
		2388.56	53.1	-20.9	74	42.24	27.49	16.71	33.34	350	187	P	V
		2390	43.6	-10.4	54	32.73	27.5	16.71	33.34	350	187	A	V
	*	2452	110.75	-	-	99.75	27.5	16.8	33.3	350	187	P	V
	*	2452	103.24	-	-	92.24	27.5	16.8	33.3	350	187	A	V
		2484.24	61.82	-12.18	74	50.56	27.7	16.84	33.28	350	187	P	V
		2483.52	52.22	-1.78	54	40.96	27.7	16.84	33.28	350	187	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	40.76	-33.24	74	54.54	32.66	12.12	58.56	-	-	P	H
		7266	42.44	-31.56	74	49.41	36.9	15.15	59.02	-	-	P	H
													H
													H
													H
													H
		4844	40.15	-33.85	74	53.93	32.66	12.12	58.56	-	-	P	V
		7266	42.49	-31.51	74	49.46	36.9	15.15	59.02	-	-	P	V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 06 2437MHz		4874	39.4	-34.6	74	53.14	32.7	12.14	58.58	-	-	P	H
		7311	43.28	-30.72	74	50.21	36.86	15.2	58.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	39.99	-34.01	74	53.73	32.7	12.14	58.58	-	-	P	V
		7311	42.24	-31.76	74	49.17	36.86	15.2	58.99	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 2412MHz		2389.485	60.13	-13.87	74	49.27	27.49	16.71	33.34	100	215	P	H
		2389.59	48.88	-5.12	54	38.01	27.5	16.71	33.34	100	215	A	H
	*	2412	115.53	-	-	104.61	27.5	16.74	33.32	100	215	P	H
	*	2412	106.24	-	-	95.32	27.5	16.74	33.32	100	215	A	H
													H
													H
		2390	62.87	-11.13	74	52	27.5	16.71	33.34	300	173	P	V
		2390	52.68	-1.32	54	41.81	27.5	16.71	33.34	300	173	A	V
	*	2412	115.75	-	-	104.83	27.5	16.74	33.32	300	173	P	V
	*	2412	107.09	-	-	96.17	27.5	16.74	33.32	300	173	A	V
													V
													V
802.11ax HE20 Full CH 06 2437MHz		2389.2	57.38	-16.62	74	46.52	27.49	16.71	33.34	100	148	P	H
		2390	45.88	-8.12	54	35.01	27.5	16.71	33.34	100	148	A	H
	*	2437	117.36	-	-	106.3	27.6	16.77	33.31	100	148	P	H
	*	2437	108.71	-	-	97.65	27.6	16.77	33.31	100	148	A	H
		2484.16	59.63	-14.37	74	48.37	27.7	16.84	33.28	100	148	P	H
		2484	48.45	-5.55	54	37.19	27.7	16.84	33.28	100	148	A	H
		2388.88	58.04	-15.96	74	47.18	27.49	16.71	33.34	300	175	P	V
		2390	48.21	-5.79	54	37.34	27.5	16.71	33.34	300	175	A	V
	*	2437	118.37	-	-	107.31	27.6	16.77	33.31	300	175	P	V
	*	2437	109.18	-	-	98.12	27.6	16.77	33.31	300	175	A	V
		2483.6	63.92	-10.08	74	52.66	27.7	16.84	33.28	300	175	P	V
		2485.2	51.34	-2.66	54	40.08	27.7	16.84	33.28	300	175	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 11 2462MHz	*	2462	113.25	-	-	102.21	27.52	16.81	33.29	400	234	P	H
	*	2462	104.04	-	-	93	27.52	16.81	33.29	400	234	A	H
		2486.28	61.59	-12.41	74	50.32	27.7	16.85	33.28	400	234	P	H
		2483.52	50.39	-3.61	54	39.13	27.7	16.84	33.28	400	234	A	H
													H
													H
	*	2462	115.38	-	-	104.34	27.52	16.81	33.29	350	183	P	V
	*	2462	106.49	-	-	95.45	27.52	16.81	33.29	350	183	A	V
		2484.72	68.28	-5.72	74	57.02	27.7	16.84	33.28	350	183	P	V
		2484.6	52.98	-1.02	54	41.72	27.7	16.84	33.28	350	183	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 06 2437MHz		4874	39.9	-34.1	74	53.64	32.7	12.14	58.58	-	-	P	H
		7311	42.77	-31.23	74	49.7	36.86	15.2	58.99	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	40.72	-33.28	74	54.46	32.7	12.14	58.58	-	-	P	V
		7311	42.29	-31.71	74	49.22	36.86	15.2	58.99	-	-	P	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 11 2462MHz		4924	40.62	-33.38	74	54.26	32.84	12.14	58.62	-	-	P	H
		7386	43.31	-30.69	74	50.51	36.48	15.26	58.94	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4924	39.82	-34.18	74	53.46	32.84	12.14	58.62	-	-	P	V
		7386	42.04	-31.96	74	49.24	36.48	15.26	58.94	-	-	P	V
													V
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Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 03 2422MHz		2389.84	61.01	-12.99	74	50.14	27.5	16.71	33.34	150	149	P	H
		2389.84	51.32	-2.68	54	40.45	27.5	16.71	33.34	150	149	A	H
	*	2422	111.89	-	-	100.94	27.52	16.75	33.32	150	149	P	H
	*	2422	103.07	-	-	92.12	27.52	16.75	33.32	150	149	A	H
		2485.12	54.36	-19.64	74	43.1	27.7	16.84	33.28	150	149	P	H
		2484.48	45.3	-8.7	54	34.04	27.7	16.84	33.28	150	149	A	H
		2390	62.05	-11.95	74	51.18	27.5	16.71	33.34	300	170	P	V
		2390	53.09	-0.91	54	42.22	27.5	16.71	33.34	300	170	A	V
	*	2422	112.32	-	-	101.37	27.52	16.75	33.32	300	170	P	V
	*	2422	103.3	-	-	92.35	27.52	16.75	33.32	300	170	A	V
		2486	55.19	-18.81	74	43.93	27.7	16.84	33.28	300	170	P	V
		2485.28	45.95	-8.05	54	34.69	27.7	16.84	33.28	300	170	A	V
802.11ax HE40 Full CH 06 2437MHz		2389.68	60.25	-13.75	74	49.38	27.5	16.71	33.34	100	147	P	H
		2389.68	50.12	-3.88	54	39.25	27.5	16.71	33.34	100	147	A	H
	*	2437	112.65	-	-	101.59	27.6	16.77	33.31	100	147	P	H
	*	2437	104.11	-	-	93.05	27.6	16.77	33.31	100	147	A	H
		2486.72	62.76	-11.24	74	51.49	27.7	16.85	33.28	100	147	P	H
		2484.24	50.25	-3.75	54	38.99	27.7	16.84	33.28	100	147	A	H
		2390	63.76	-10.24	74	52.89	27.5	16.71	33.34	300	170	P	V
		2390	52.91	-1.09	54	42.04	27.5	16.71	33.34	300	170	A	V
	*	2437	113.33	-	-	102.27	27.6	16.77	33.31	300	170	P	V
	*	2437	104.4	-	-	93.34	27.6	16.77	33.31	300	170	A	V
		2483.68	64.34	-9.66	74	53.08	27.7	16.84	33.28	300	170	P	V
		2485.2	52.76	-1.24	54	41.5	27.7	16.84	33.28	300	170	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 09 2452MHz		2389.84	54.77	-19.23	74	43.9	27.5	16.71	33.34	150	214	P	H
		2390	44.04	-9.96	54	33.17	27.5	16.71	33.34	150	214	A	H
	*	2452	111.29	-	-	100.29	27.5	16.8	33.3	150	214	P	H
	*	2452	102.37	-	-	91.37	27.5	16.8	33.3	150	214	A	H
		2488.48	62.35	-11.65	74	51.08	27.7	16.85	33.28	150	214	P	H
		2483.52	50.58	-3.42	54	39.32	27.7	16.84	33.28	150	214	A	H
		2390	53.45	-20.55	74	42.58	27.5	16.71	33.34	350	178	P	V
		2389.2	44.68	-9.32	54	33.82	27.49	16.71	33.34	350	178	A	V
	*	2452	111.75	-	-	100.75	27.5	16.8	33.3	350	178	P	V
	*	2452	103.55	-	-	92.55	27.5	16.8	33.3	350	178	A	V
		2488	65.56	-8.44	74	54.29	27.7	16.85	33.28	350	178	P	V
		2484.24	52.56	-1.44	54	41.3	27.7	16.84	33.28	350	178	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 06 2437MHz		4874	39.64	-34.36	74	53.38	32.7	12.14	58.58	-	-	P	H
		7311	42.06	-31.94	74	48.99	36.86	15.2	58.99	-	-	P	H
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		4874	39.62	-34.38	74	53.36	32.7	12.14	58.58	-	-	P	V
		7311	42.41	-31.59	74	49.34	36.86	15.2	58.99	-	-	P	V
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WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 09 2452MHz		4904	39.93	-34.07	74	53.67	32.72	12.14	58.6	-	-	P	H
		7356	41.62	-32.38	74	48.69	36.66	15.23	58.96	-	-	P	H
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		4904	40.61	-33.39	74	54.35	32.72	12.14	58.6	-	-	P	V
		7356	42.45	-31.55	74	49.52	36.66	15.23	58.96	-	-	P	V
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Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission above 18GHz

2.4GHz WIFI 802.11n HT20 (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 SHF		24748	35.13	-38.87	74	37.85	39.11	18.52	60.35	-	-	P	H
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Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

[illegible]



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Yuan Lee, Fu Chen and Troye Hsieh	Temperature :	19.9~21.2°C
		Relative Humidity :	51.1~65.9%

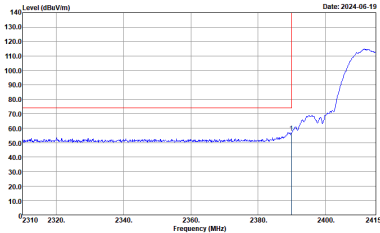
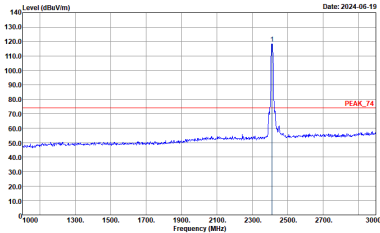
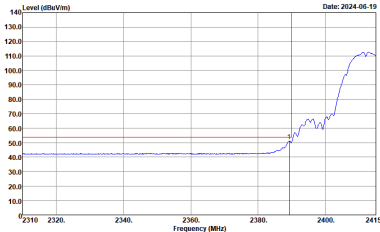
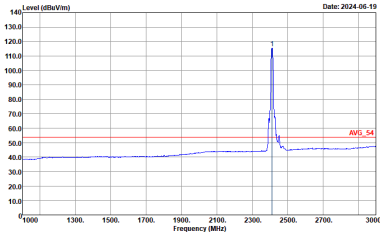
Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

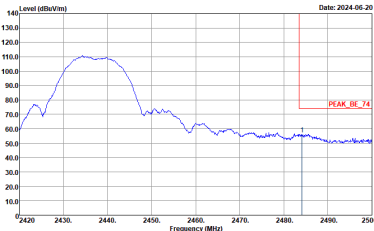
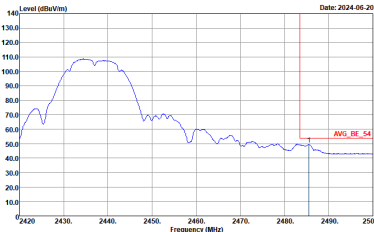


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto	Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto	Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

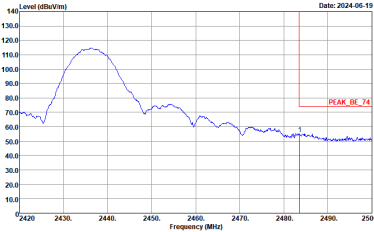
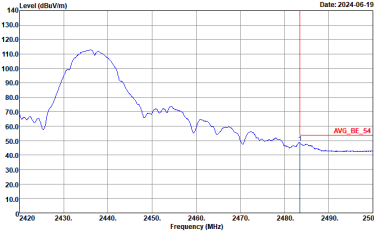


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 HORIZONTAL RBW:1000.000kHz VBW:0.820kHz SWT:Auto	Left blank

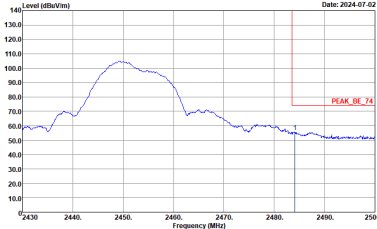
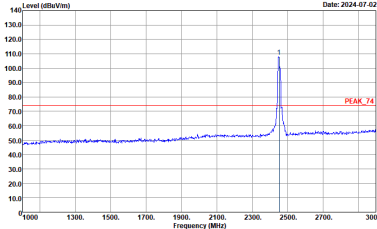
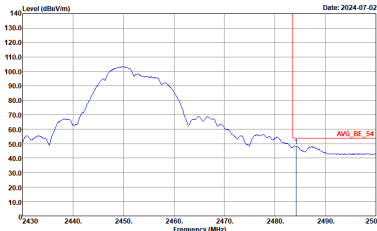
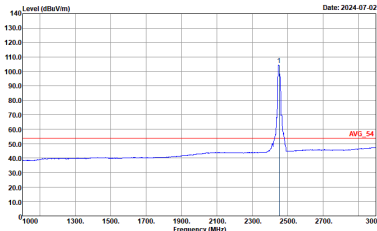


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto	Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

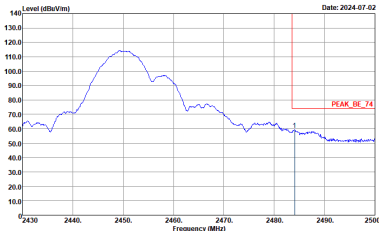
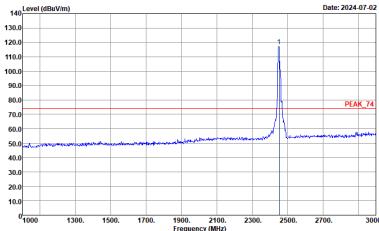
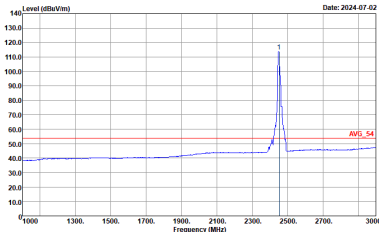


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz SWT:Auto	Left blank

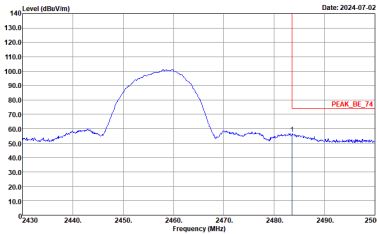
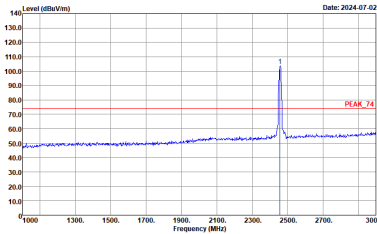
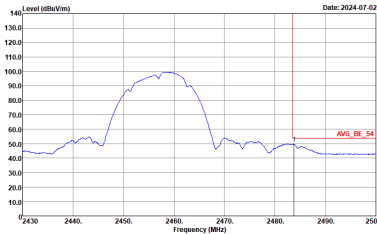
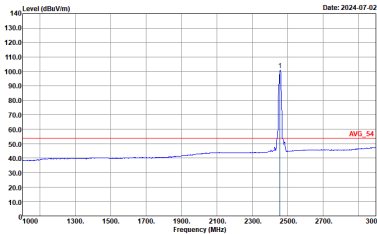


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH09 2457MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:0.820kHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:0.820kHz SWT:Auto

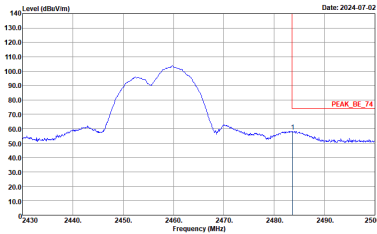
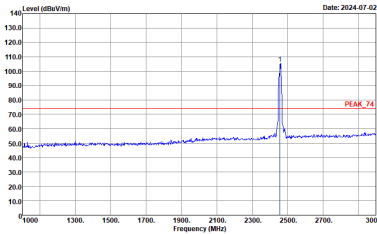
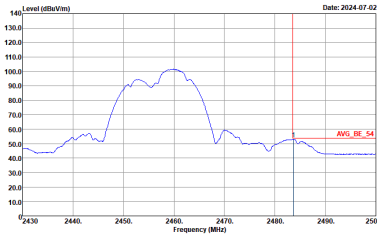
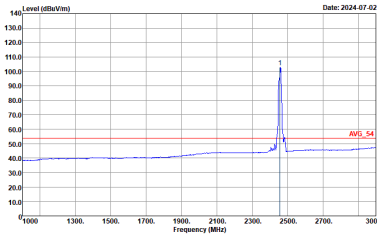


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH09 2457MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz SWT:Auto
Avg.		

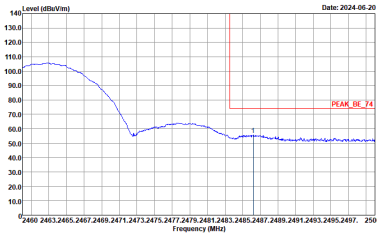
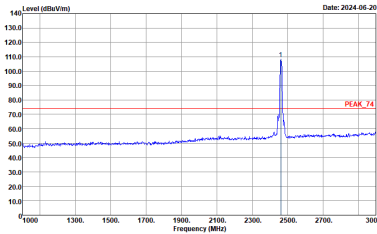
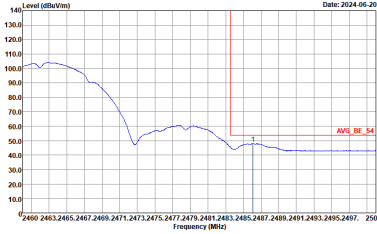
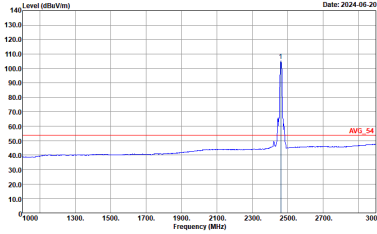


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH10 2457MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 HORIZONTAL RBW:1000.000KHz VBW:0.820KHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL RBW:1000.000KHz VBW:0.820KHz SWT:Auto

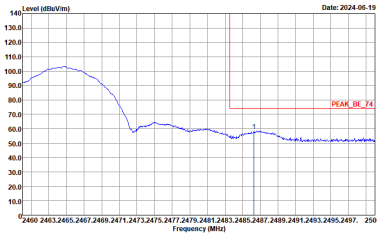
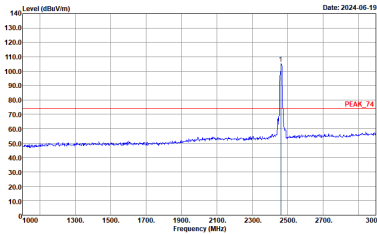
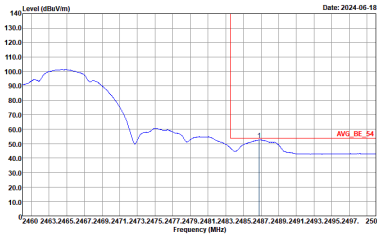
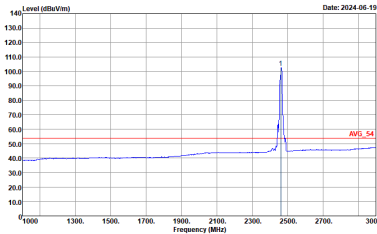


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH10 2457MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

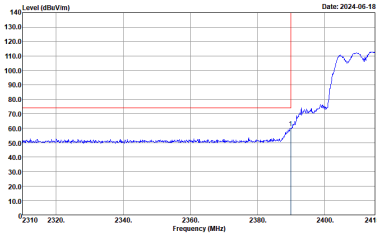
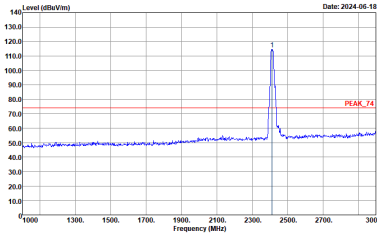
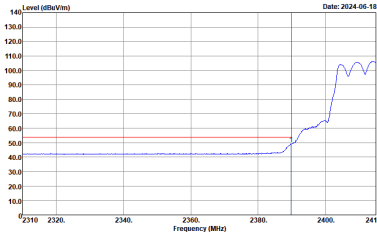
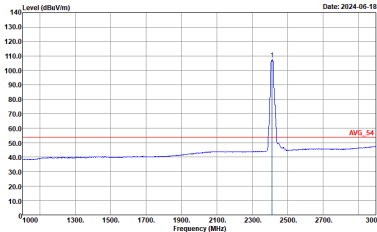


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CHI1-HY Condition : AVG_BE_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m 91200_01620_230817 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m 91200_01620_230817 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto