



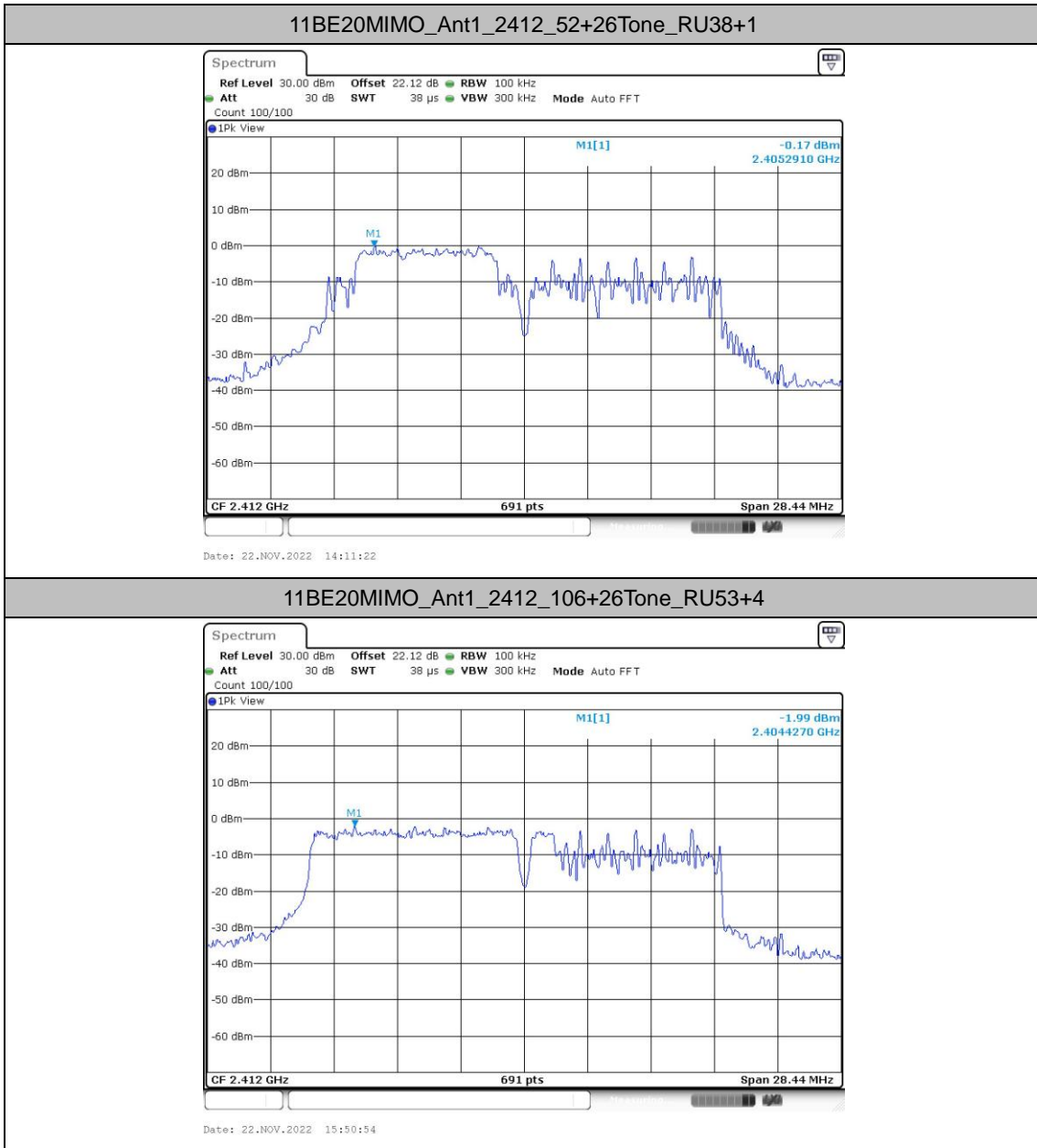
Reference level measurement

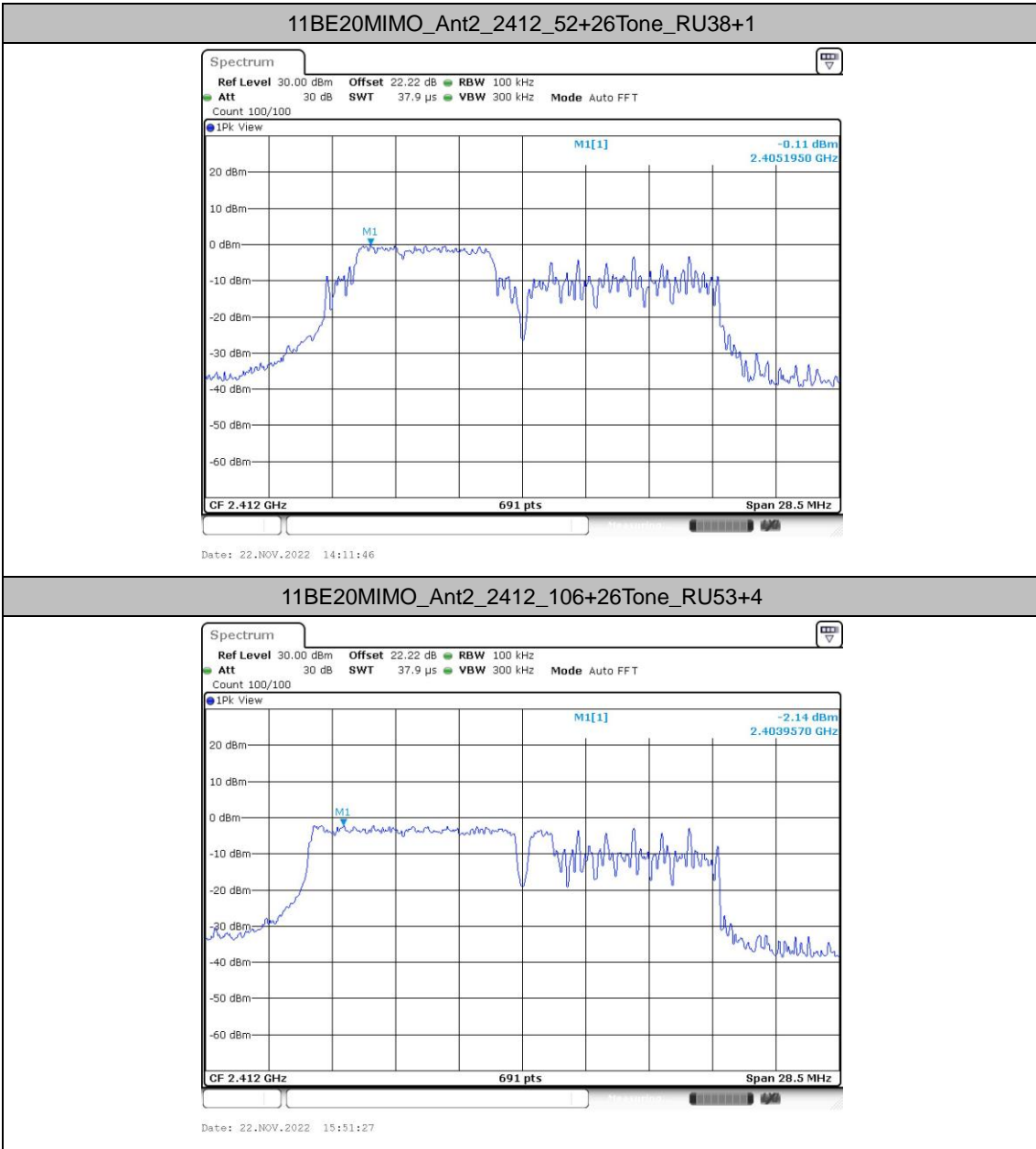
Test Result

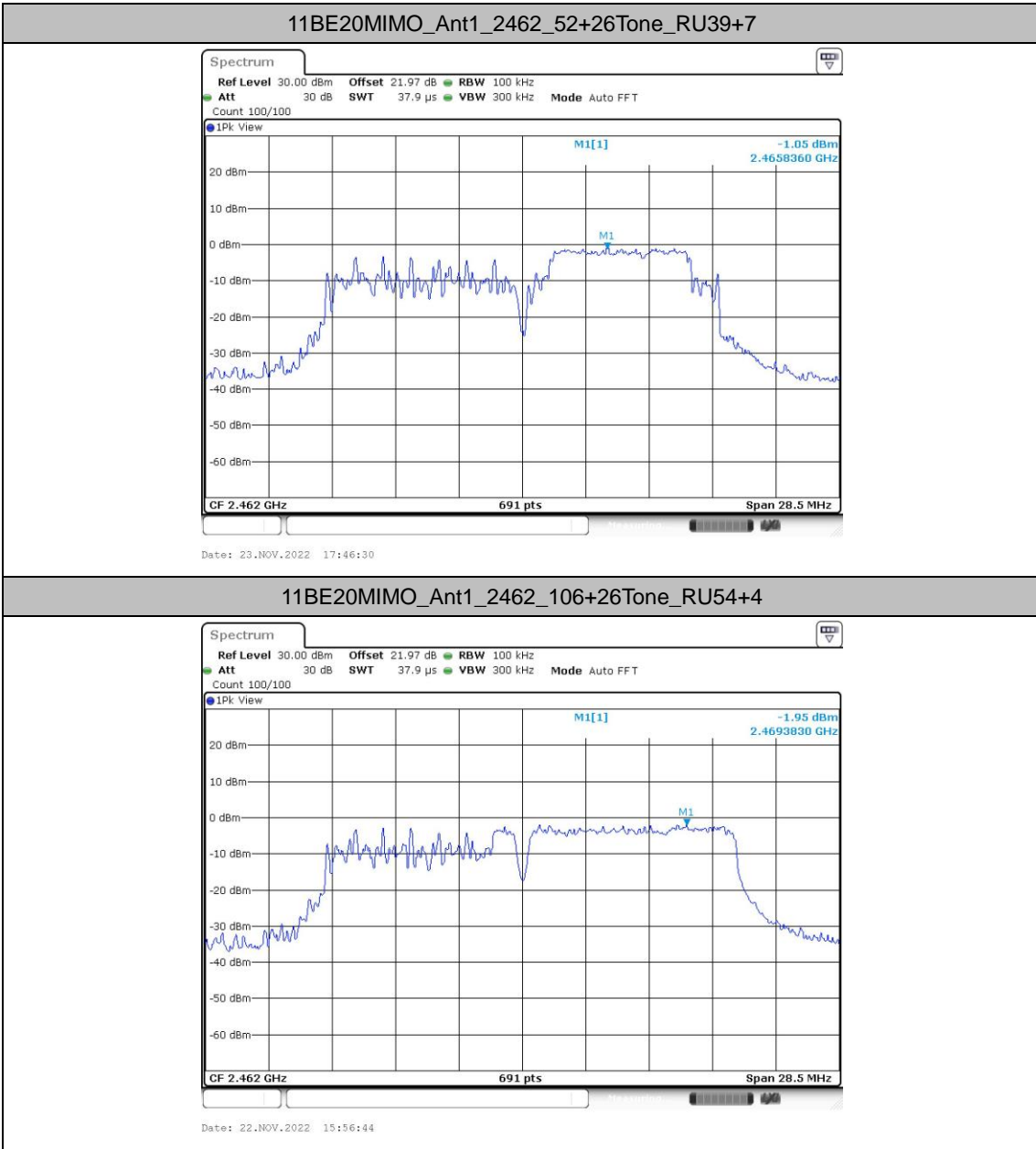
TestMode	Antenna	Freq(MHz)	Ru Size	Ru Index	Max.Point[MHz]	Result[dBm/100KHZ]
11BE20MIMO	Ant1	2412	52+26Tone	RU38+1	2405.29	-0.17
			106+26Tone	RU53+4	2404.43	-1.99
	Ant2	2412	52+26Tone	RU38+1	2405.20	-0.11
			106+26Tone	RU53+4	2403.96	-2.14
	Ant1	2462	52+26Tone	RU39+7	2465.84	-1.05
			106+26Tone	RU54+4	2469.38	-1.95
	Ant2	2462	52+26Tone	RU39+7	2468.41	0.77
			106+26Tone	RU54+4	2469.36	-1.43

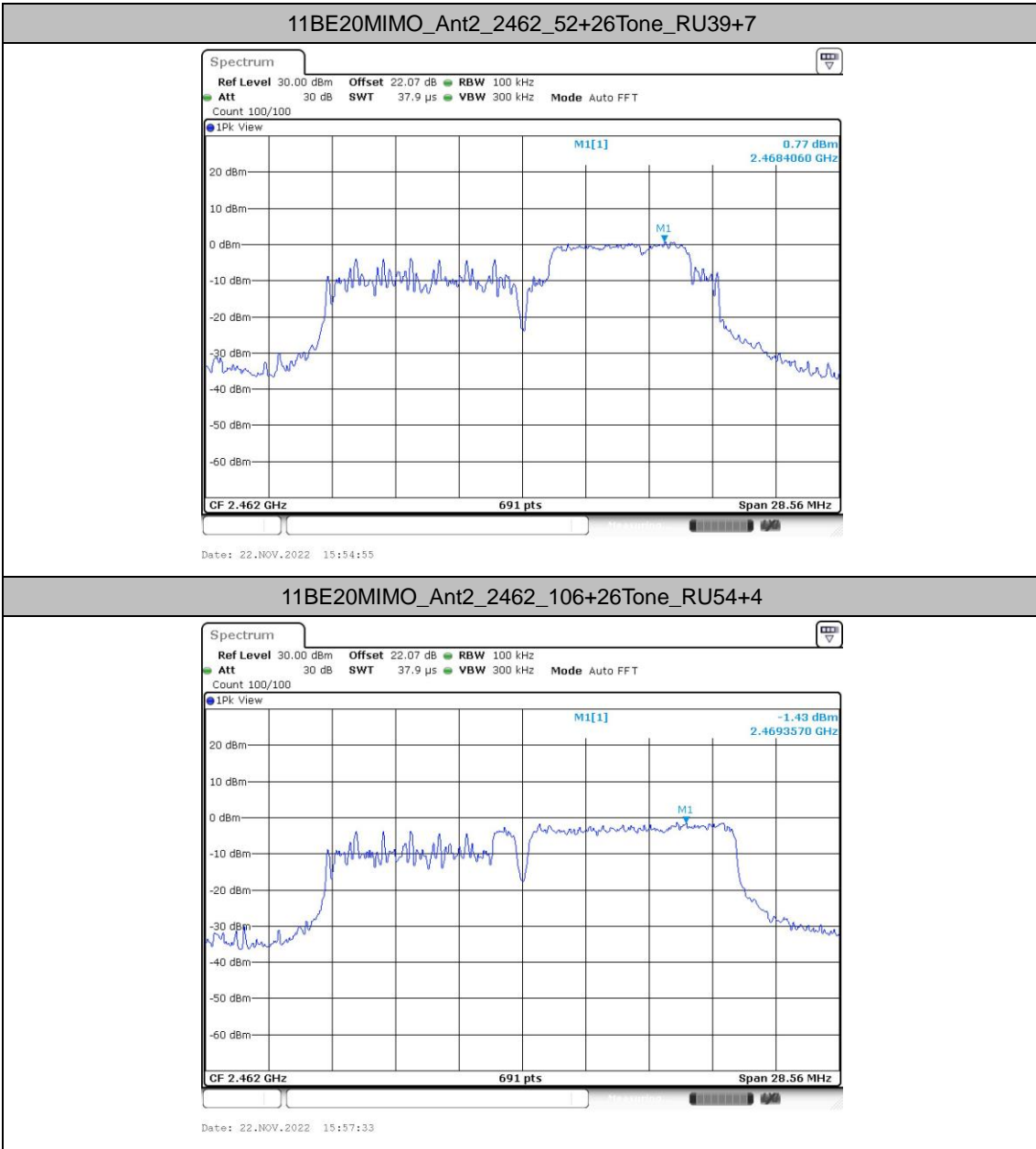


Test Graphs











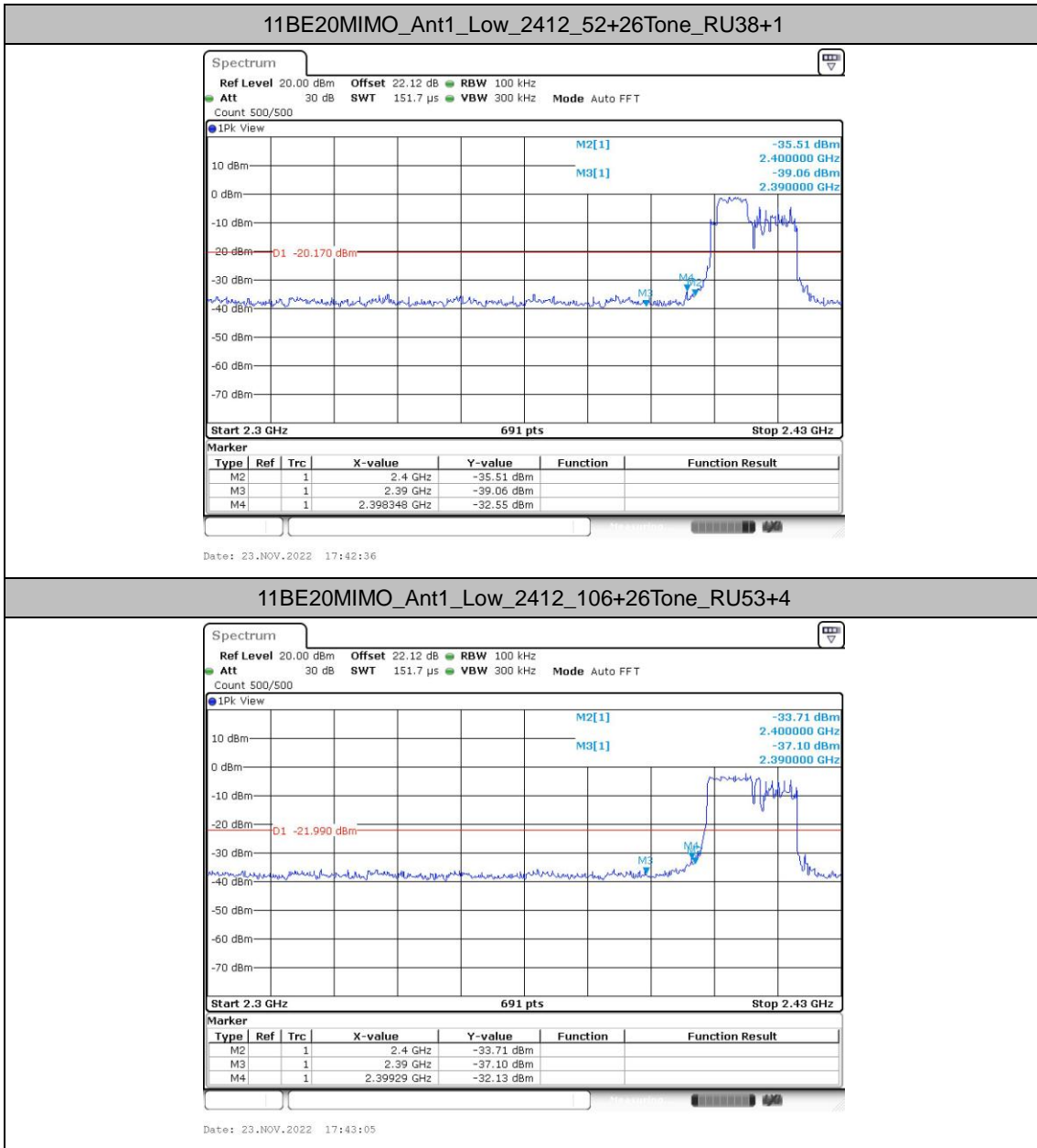
Band edge measurements

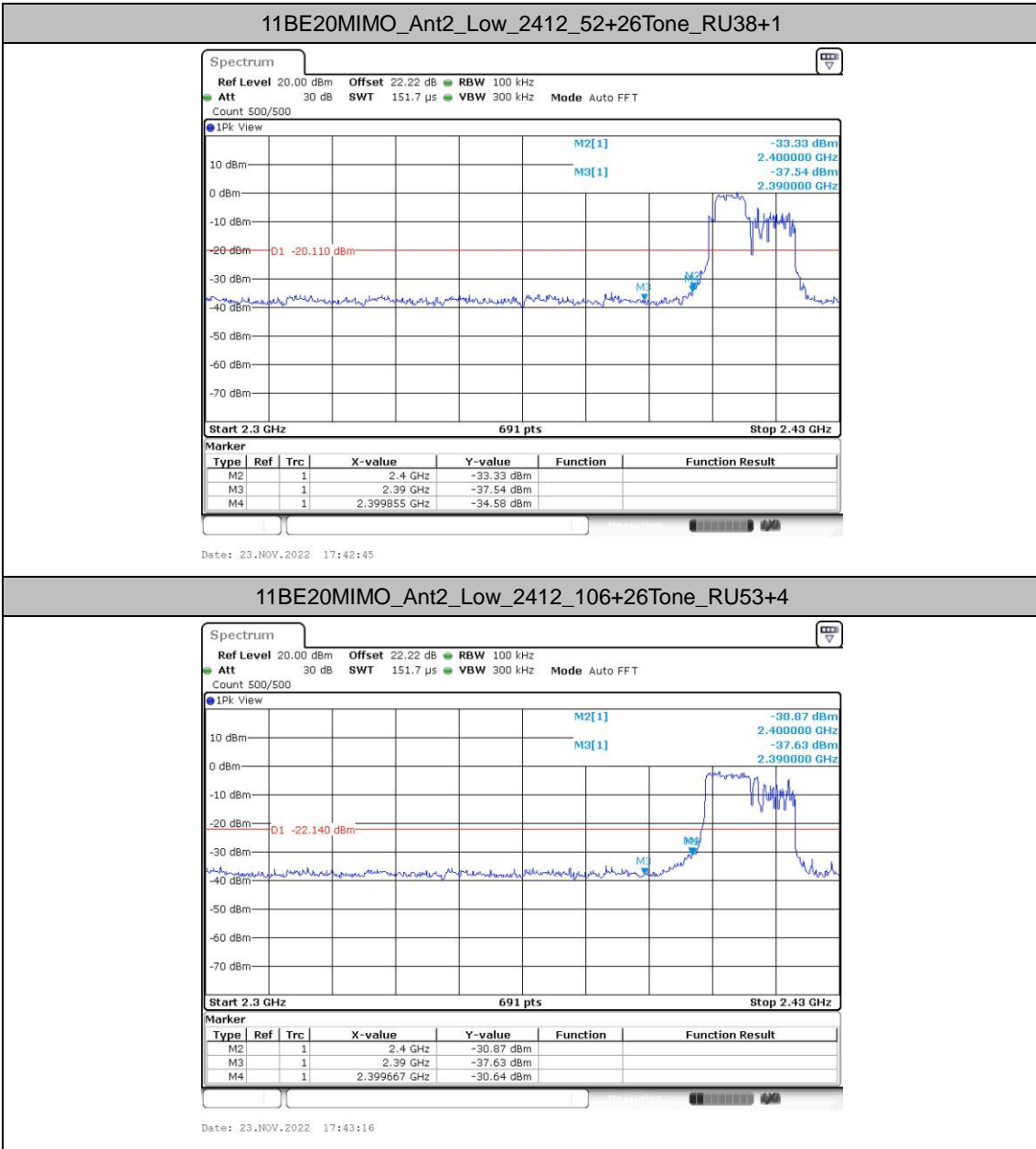
Test Result

TestMode	Antenna	ChName	Freq(MHz)	Ru Size	Ru Index	RefLevel [dBm/100KHZ]	Result [dBm/100KHZ]	Limit [dBm/100KHZ]	Verdict
11BE20MIMO	Ant1	Low	2412	52+26Tone	RU38+1	-0.17	-32.55	≤-20.17	PASS
				106+26Tone	RU53+4	-1.99	-32.13	≤-21.99	PASS
	Ant2	Low	2412	52+26Tone	RU38+1	-0.11	-34.58	≤-20.11	PASS
				106+26Tone	RU53+4	-2.14	-30.64	≤-22.14	PASS
	Ant1	High	2462	52+26Tone	RU39+7	-1.05	-34.1	≤-21.05	PASS
				106+26Tone	RU54+4	-1.95	-34.45	≤-21.95	PASS
	Ant2	High	2462	52+26Tone	RU39+7	0.77	-34.36	≤-19.23	PASS
				106+26Tone	RU54+4	-1.43	-33.47	≤-21.43	PASS



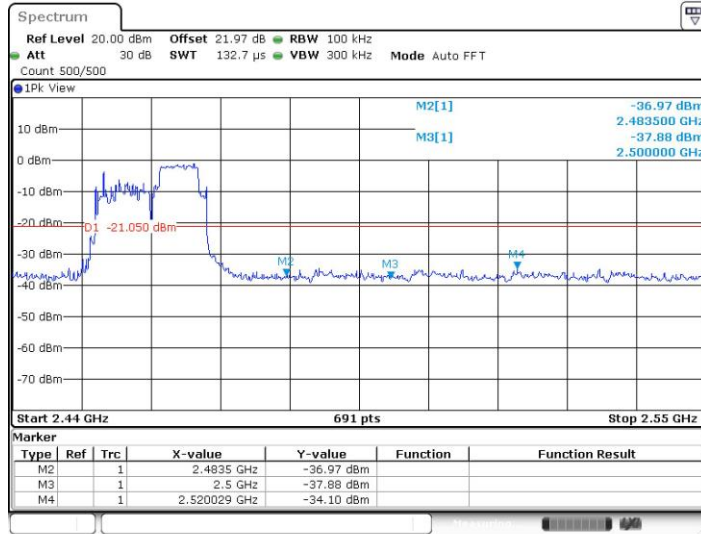
Test Graphs





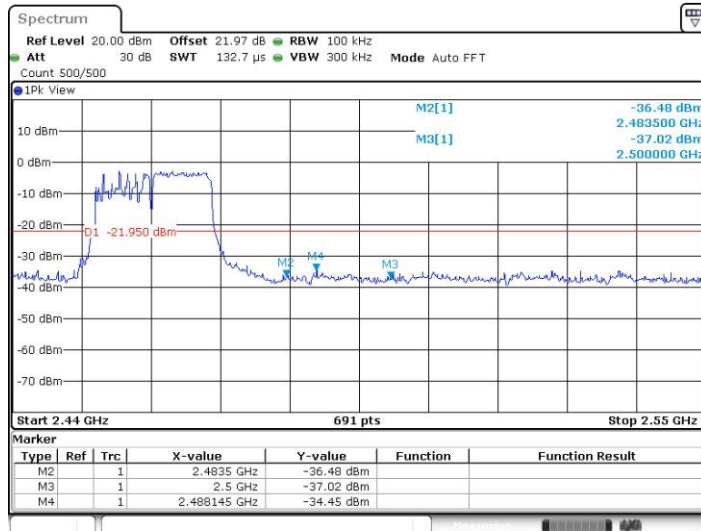


11BE20MIMO_Ant1_High_2462_52+26Tone_RU39+7

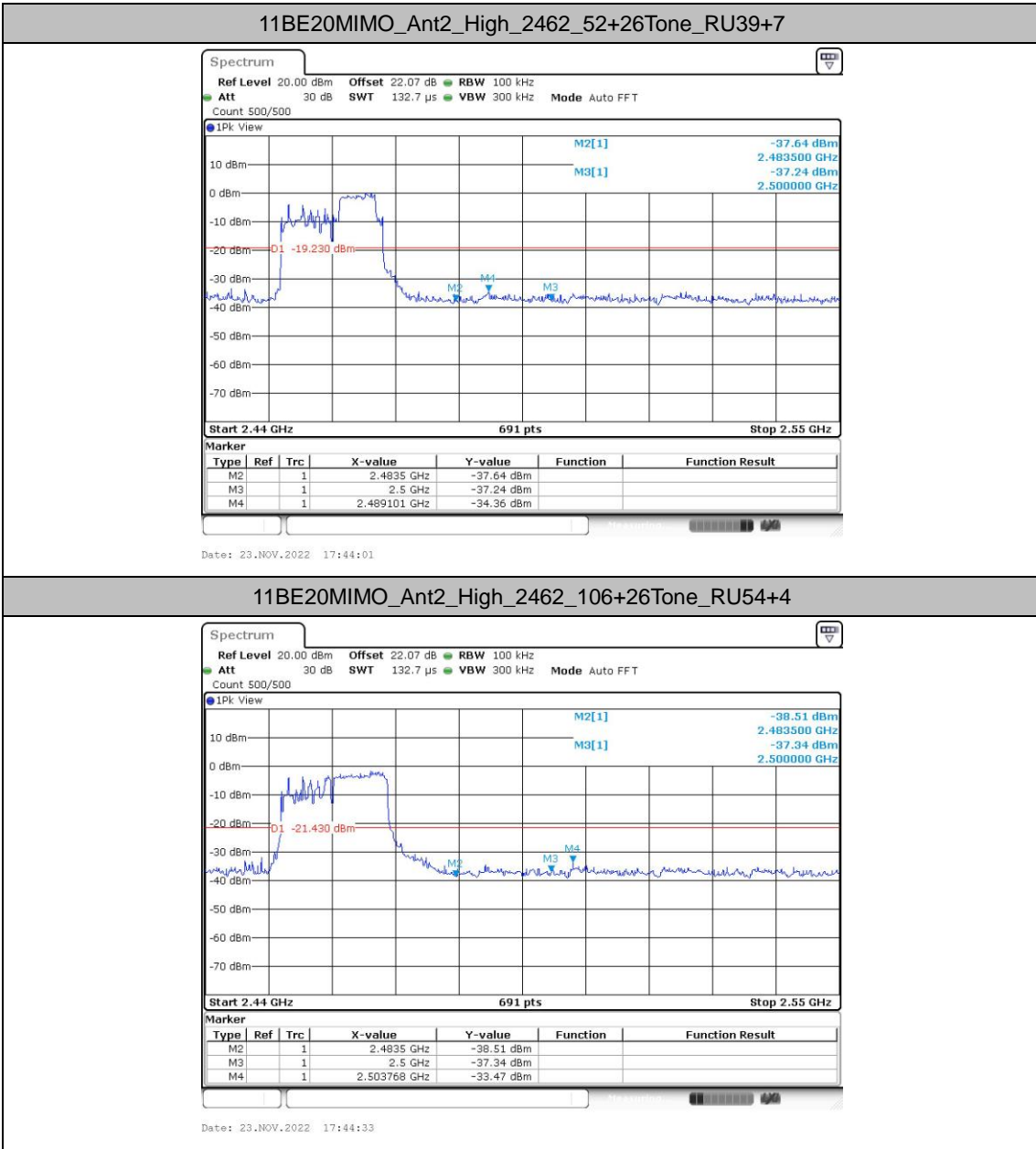


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11BE20MIMO_Ant1_High_2462_106+26Tone_RU54+4



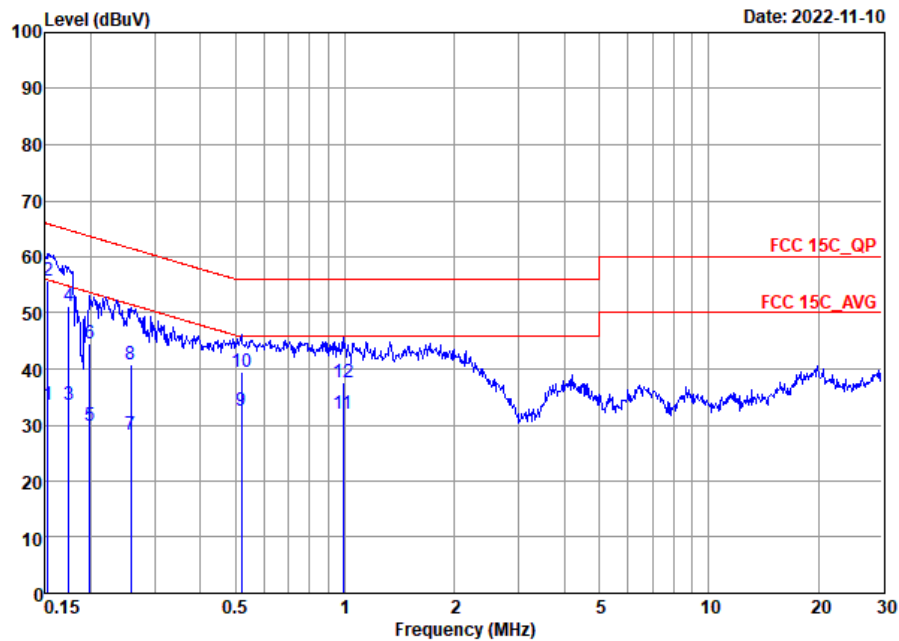
Date: 23.NOV.2022 17:44:20





Appendix B. AC Conducted Emission Test Results

Test Engineer :	Yuki Tang	Temperature :	21~24°C
		Relative Humidity :	39~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

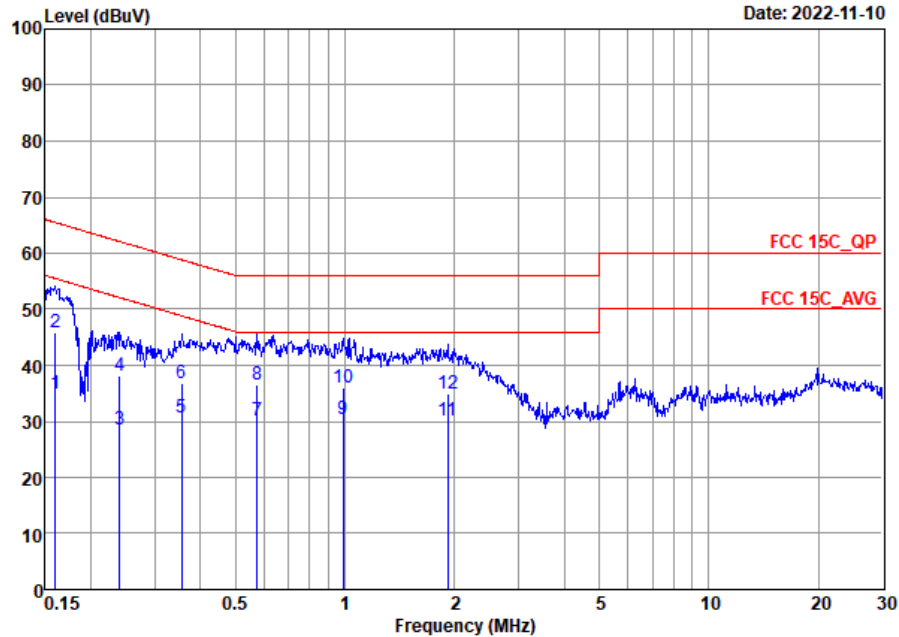


Site : CO01-SZ
 Condition: FCC 15C_QP LISN_20220811_ L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	33.51	-22.36	55.87	12.50	10.20	10.81	Average
2 *	0.15	55.71	-10.16	65.87	34.70	10.20	10.81	QP
3	0.17	33.59	-21.18	54.77	12.90	10.20	10.49	Average
4	0.17	51.09	-13.68	64.77	30.40	10.20	10.49	QP
5	0.20	29.87	-23.80	53.67	9.50	10.20	10.17	Average
6	0.20	44.57	-19.10	63.67	24.20	10.20	10.17	QP
7	0.26	28.20	-23.31	51.51	7.40	10.18	10.62	Average
8	0.26	40.70	-20.81	61.51	19.90	10.18	10.62	QP
9	0.52	32.58	-13.42	46.00	10.69	10.12	11.77	Average
10	0.52	39.38	-16.62	56.00	17.49	10.12	11.77	QP
11	0.99	32.09	-13.91	46.00	11.70	10.12	10.27	Average
12	0.99	37.49	-18.51	56.00	17.10	10.12	10.27	QP



Test Engineer :	Yuki Tang	Temperature :	21~24°C
		Relative Humidity :	39~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15C QP LISN 20220811 N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	35.00	-20.47	55.47	14.00	10.31	10.69	Average
2	0.16	45.90	-19.57	65.47	24.90	10.31	10.69	QP
3	0.24	28.55	-23.53	52.08	7.79	10.26	10.50	Average
4	0.24	38.25	-23.83	62.08	17.49	10.26	10.50	QP
5	0.36	30.60	-18.23	48.83	9.21	10.17	11.22	Average
6	0.36	36.70	-22.13	58.83	15.31	10.17	11.22	QP
7	0.57	30.17	-15.83	46.00	8.40	10.23	11.54	Average
8	0.57	36.67	-19.33	56.00	14.90	10.23	11.54	QP
9 *	0.99	30.38	-15.62	46.00	9.90	10.21	10.27	Average
10	0.99	35.88	-20.12	56.00	15.40	10.21	10.27	QP
11	1.92	30.04	-15.96	46.00	9.60	10.20	10.24	Average
12	1.92	35.04	-20.96	56.00	14.60	10.20	10.24	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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		2386.965	52.82	-21.18	74	53.79	27.52	5.37	33.86	176	26	P	H
		2387.805	43.69	-10.31	54	44.66	27.52	5.37	33.86	176	26	A	H
	*	2412	103.29	-	-	104.15	27.6	5.37	33.83	176	26	P	H
	*	2412	101.51	-	-	102.37	27.6	5.37	33.83	176	26	A	H
		2388.435	49.67	-24.33	74	50.64	27.52	5.37	33.86	340	266	P	V
		2387.805	39.46	-14.54	54	40.43	27.52	5.37	33.86	340	266	A	V
		2412	95.3	-	-	96.16	27.6	5.37	33.83	340	266	P	V
		2412	93.58	-	-	94.44	27.6	5.37	33.83	340	266	A	V
802.11b CH 11 2462MHz	*	2462	107.13	-	-	107.71	27.77	5.41	33.76	100	342	P	H
	*	2462	105.31	-	-	105.89	27.77	5.41	33.76	100	342	A	H
		2491.68	51.37	-22.63	74	51.76	27.87	5.46	33.72	100	342	P	H
		2490.76	40.05	-13.95	54	40.44	27.87	5.46	33.72	100	342	A	H
	*	2462	104.68	-	-	105.26	27.77	5.41	33.76	328	291	P	V
	*	2462	103.02	-	-	103.6	27.77	5.41	33.76	328	291	A	V
		2483.96	50.88	-23.12	74	51.29	27.85	5.46	33.72	328	291	P	V
		2484.08	39.94	-14.06	54	40.35	27.85	5.46	33.72	328	291	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 802.11b (Harmonic @ 3m)**

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
12+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz	-	4824	41.94	-32.06	74	53.33	31.58	8.88	51.85	-	-	P	H
	-	4824	41.65	-32.35	74	53.04	31.58	8.88	51.85	-	-	P	V
802.11b CH 06 2437MHz	-	4874	40.7	-33.3	74	52.19	31.67	8.76	51.92	-	-	P	H
	-	7311	43.93	-30.07	74	49.27	36.21	10.18	51.73	-	-	P	H
	-	4874	40.34	-33.66	74	51.83	31.67	8.76	51.92	-	-	P	V
	-	7311	43.83	-30.17	74	49.17	36.21	10.18	51.73	-	-	P	V
802.11b CH 11 2462MHz	-	4924	39.15	-34.85	74	48.64	31.76	8.53	49.78	-	-	P	H
	-	7386	43.94	-30.06	74	47.6	36.29	10.18	50.13	-	-	P	H
	-	4924	40	-34	74	51.7	31.76	8.53	51.99	-	-	P	V
	-	7386	43.62	-30.38	74	48.83	36.29	10.18	51.68	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)**

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
12+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.8	60.62	-13.38	74	61.55	27.53	5.37	33.83	121	119	P	H
		2390	48.36	-5.64	54	49.29	27.53	5.37	33.83	121	119	A	H
	*	2412	105.47	-	-	106.33	27.6	5.37	33.83	121	119	P	H
	*	2412	98.55	-	-	99.41	27.6	5.37	33.83	121	119	A	H
		2389.905	58.11	-15.89	74	59.04	27.53	5.37	33.83	351	296	P	V
		2390	46.29	-7.71	54	47.22	27.53	5.37	33.83	351	296	A	V
	*	2412	102.76	-	-	103.62	27.6	5.37	33.83	351	296	P	V
	*	2412	95.29	-	-	96.15	27.6	5.37	33.83	351	296	A	V
802.11g CH 11 2462MHz	*	2462	106.23	-	-	106.81	27.77	5.41	33.76	356	360	P	H
	*	2462	99.07	-	-	99.65	27.77	5.41	33.76	356	360	A	H
		2483.76	60	-14	74	60.42	27.84	5.46	33.72	356	360	P	H
		2483.52	46.72	-7.28	54	47.14	27.84	5.46	33.72	356	360	A	H
	*	2462	104.58	-	-	105.16	27.77	5.41	33.76	323	272	P	V
	*	2462	97.31	-	-	97.89	27.77	5.41	33.76	323	272	A	V
		2484.76	57.35	-16.65	74	57.76	27.85	5.46	33.72	323	272	P	V
		2483.52	44.67	-9.33	54	45.09	27.84	5.46	33.72	323	272	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 802.11g (Harmonic @ 3m)**

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
12+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz	-	4824	41.56	-32.44	74	50.86	31.58	8.88	49.76	-	-	P	H
	-	4824	41.4	-32.6	74	50.7	31.58	8.88	49.76	-	-	P	V
802.11g CH 06 2437MHz	-	4874	41.03	-32.97	74	52.52	31.67	8.76	51.92	-	-	P	H
	-	7311	43.6	-30.4	74	48.94	36.21	10.18	51.73	-	-	P	H
	-	4874	40.34	-33.66	74	51.83	31.67	8.76	51.92	-	-	P	V
	-	7311	43.4	-30.6	74	48.74	36.21	10.18	51.73	-	-	P	V
802.11g CH 11 2462MHz	-	4924	39	-35	74	50.7	31.76	8.53	51.99	-	-	P	H
	-	7386	43.93	-30.07	74	49.14	36.29	10.18	51.68	-	-	P	H
	-	4924	40.58	-33.42	74	52.28	31.76	8.53	51.99	-	-	P	V
	-	7386	44.58	-29.42	74	49.79	36.29	10.18	51.68	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11be EHT20 Full (Band Edge @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Full CH 01 2412MHz		2389.8	64.29	-9.71	74	65.22	27.53	5.37	33.83	117	120	P	H
		2390	48.83	-5.17	54	49.76	27.53	5.37	33.83	117	120	A	H
	*	2412	100.32	-	-	101.18	27.6	5.37	33.83	117	120	P	H
	*	2412	90.78	-	-	91.64	27.6	5.37	33.83	117	120	A	H
		2387.91	58.99	-15.01	74	59.96	27.52	5.37	33.86	397	298	P	V
		2390	45.94	-8.06	54	46.87	27.53	5.37	33.83	397	298	A	V
	*	2412	96.78	-	-	97.64	27.6	5.37	33.83	397	298	P	V
	*	2412	87.03	-	-	87.89	27.6	5.37	33.83	397	298	A	V
802.11be EHT20 Full CH 02 2417MHz		2390	61.98	-12.02	74	58.62	32.21	4.81	33.66	117	134	P	H
		2390	48.24	-5.76	54	44.88	32.21	4.81	33.66	117	134	A	H
	*	2417	105.37	-	-	101.93	32.28	4.81	33.65	117	134	P	H
	*	2417	95.6	-	-	92.16	32.28	4.81	33.65	117	134	A	H
		2390	59.35	-14.65	74	55.99	32.21	4.81	33.66	360	294	P	V
		2390	45.3	-8.7	54	41.94	32.21	4.81	33.66	360	294	A	V
	*	2417	102.3	-	-	98.86	32.28	4.81	33.65	360	294	P	V
	*	2417	93.21	-	-	89.77	32.28	4.81	33.65	360	294	A	V
802.11be EHT20 Full CH 03 2422MHz		2389.905	58.74	-15.26	74	55.38	32.21	4.81	33.66	117	134	P	H
		2390	47.81	-6.19	54	44.45	32.21	4.81	33.66	117	134	A	H
	*	2422	109.37	-	-	105.91	32.3	4.81	33.65	117	134	P	H
	*	2422	100.09	-	-	96.63	32.3	4.81	33.65	117	134	A	H
		2389.905	59.21	-14.79	74	55.85	32.21	4.81	33.66	360	294	P	V
		2390	46.21	-7.79	54	42.85	32.21	4.81	33.66	360	294	A	V
	*	2422	108.58	-	-	105.12	32.3	4.81	33.65	360	294	P	V
	*	2422	98.85	-	-	95.39	32.3	4.81	33.65	360	294	A	V
802.11be EHT20 Full CH 11 2462MHz	*	2462	106.46	-	-	107.04	27.77	5.41	33.76	130	125	P	H
	*	2462	97.5	-	-	98.08	27.77	5.41	33.76	130	125	A	H
		2483.52	60.27	-13.73	74	60.69	27.84	5.46	33.72	130	125	P	H
		2483.52	47.8	-6.2	54	48.22	27.84	5.46	33.72	130	125	A	H
	*	2462	105.46	-	-	106.04	27.77	5.41	33.76	368	280	P	V
	*	2462	95.88	-	-	96.46	27.77	5.41	33.76	368	280	A	V
		2483.84	58.66	-15.34	74	59.07	27.85	5.46	33.72	368	280	P	V
		2483.52	46.03	-7.97	54	46.45	27.84	5.46	33.72	368	280	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 be EHT 20 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
12+7		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT20 Full CH 01 2412MHz	-	4824	41.47	-32.53	74	50.77	31.58	8.88	49.76	-	-	P	H
	-	4824	42.33	-31.67	74	51.63	31.58	8.88	49.76	-	-	P	V
802.11be EHT20 Full CH 06 2437MHz	-	4874	40.36	-33.64	74	51.85	31.67	8.76	51.92	-	-	P	H
	-	7311	44.95	-29.05	74	50.29	36.21	10.18	51.73	-	-	P	H
	-	4874	40.66	-33.34	74	52.15	31.67	8.76	51.92	-	-	P	V
	-	7311	44.65	-29.35	74	49.99	36.21	10.18	51.73	-	-	P	V
802.11be EHT20 Full CH 11 2462MHz	-	4924	39.63	-34.37	74	49.12	31.76	8.53	49.78	-	-	P	H
	-	7386	43.81	-30.19	74	47.47	36.29	10.18	50.13	-	-	P	H
	-	4924	39.38	-34.62	74	48.87	31.76	8.53	49.78	-	-	P	V
	-	7386	44.71	-29.29	74	48.37	36.29	10.18	50.13	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11be EHT20 Single partial RU 106/53 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Single RU 106/53 CH 01 2412MHz		2390	62.48	-11.52	74	63.41	27.53	5.37	33.83	100	124	P	H
		2390	46.83	-7.17	54	47.76	27.53	5.37	33.83	100	124	A	H
	*	2412	110.76	-	-	111.62	27.6	5.37	33.83	100	124	P	H
	*	2412	100.79	-	-	101.65	27.6	5.37	33.83	100	124	A	H
		2389.485	57.14	-16.86	74	58.11	27.52	5.37	33.86	100	260	P	V
		2389.695	42.42	-11.58	54	43.39	27.52	5.37	33.86	100	260	A	V
	*	2412	103.9	-	-	104.76	27.6	5.37	33.83	100	260	P	V
	*	2412	94.71	-	-	95.57	27.6	5.37	33.83	100	260	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 802.11be EHT20 Single partial RU 106/53 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Single RU 106/53 CH 01 2412MHz		4824	42.16	-31.84	74	51.46	31.58	8.88	49.76	-	-	P	H
		4824	41.54	-32.46	74	50.84	31.58	8.88	49.76	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11be EHT20 Single Partial RU 106/54 (Band Edge @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Single RU 106/54 CH 11 2462MHz	*	2462	110.27	-	-	110.85	27.77	5.41	33.76	100	32	P	H
	*	2462	100.04	-	-	100.62	27.77	5.41	33.76	100	32	A	H
		2483.52	63.85	-10.15	74	64.27	27.84	5.46	33.72	100	32	P	H
		2483.52	46.54	-7.46	54	46.96	27.84	5.46	33.72	100	32	A	H
	*	2462	107.1	-	-	107.68	27.77	5.41	33.76	326	285	P	V
	*	2462	96.95	-	-	97.53	27.77	5.41	33.76	326	285	A	V
		2484.12	59.58	-14.42	74	59.99	27.85	5.46	33.72	326	285	P	V
		2484.36	42.46	-11.54	54	42.87	27.85	5.46	33.72	326	285	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 802.11be EHT20 Single Partial RU 106/54 (Harmonic @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Single RU 106/54 CH 11 2462MHz	-	4924	42.84	-31.16	74	52.33	31.76	8.53	49.78	-	-	P	H
	-	7386	45.53	-28.47	74	49.19	36.29	10.18	50.13	-	-	P	H
	-	4924	42.66	-31.34	74	52.15	31.76	8.53	49.78	-	-	P	V
	-	7386	46.51	-27.49	74	50.17	36.29	10.18	50.13	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11be EHT20 Small Partial RU 52/38+26/1 (Band Edge @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Small RU 52+26 CH 01 2412MHz		2389.8	52.84	-21.16	74	53.77	27.53	5.37	33.83	100	88	P	H
		2390	38.82	-15.18	54	39.75	27.53	5.37	33.83	100	88	A	H
	*	2412	104.71	-	-	105.57	27.6	5.37	33.83	100	88	P	H
	*	2412	95.6	-	-	96.46	27.6	5.37	33.83	100	88	A	H
		2323.545	50.51	-23.49	74	51.8	27.3	5.31	33.9	400	275	P	V
		2388.645	38.46	-15.54	54	39.43	27.52	5.37	33.86	400	275	A	V
	*	2412	100.52	-	-	101.38	27.6	5.37	33.83	400	275	P	V
*	2412	90.42	-	-	91.28	27.6	5.37	33.83	400	275	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 802.11be EHT20 Small Partial RU 52/38+26/1 (Harmonic @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Small RU 52+26 CH 01 2412MHz		4824	44.64	-29.36	74	53.94	31.58	8.88	49.76	-	-	P	H
		4824	44.56	-29.44	74	53.86	31.58	8.88	49.76	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11be EHT20 Small Partial RU 106/53+26/4 (Band Edge @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Small RU 106+26 CH 11 2462MHz	*	2462	97.96	-	-	98.54	27.77	5.41	33.76	111	102	P	H
	*	2462	89.3	-	-	89.88	27.77	5.41	33.76	111	102	A	H
		2483.64	53.23	-20.77	74	53.65	27.84	5.46	33.72	111	102	P	H
		2483.52	38.77	-15.23	54	39.19	27.84	5.46	33.72	111	102	A	H
	*	2462	93.85	-	-	94.43	27.77	5.41	33.76	370	271	P	V
	*	2462	85.9	-	-	86.48	27.77	5.41	33.76	370	271	A	V
		2483.6	51.72	-22.28	74	52.14	27.84	5.46	33.72	370	271	P	V
		2483.52	38.67	-15.33	54	39.09	27.84	5.46	33.72	370	271	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 802.11be EHT20 Small Partial RU 106/53+26/4 (Harmonic @ 3m)

WIFI Ant. 12+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20 Small RU 106+26 CH 11 2462MHz	-	4924	42.31	-31.69	74	51.8	31.76	8.53	49.78	-	-	P	H
	-	7386	46.64	-27.36	74	50.3	36.29	10.18	50.13	-	-	P	H
	-	4924	42.83	-31.17	74	52.32	31.76	8.53	49.78	-	-	P	V
	-	7386	45.12	-28.88	74	48.78	36.29	10.18	50.13	-	-	P	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 be EHT 40 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT40 Full CH 03 2422MHz		2388.96	59.97	-14.03	74	60.94	27.52	5.37	33.86	123	61	P	H
		2389.38	47.55	-6.45	54	48.52	27.52	5.37	33.86	123	61	A	H
	*	2422	105.29	-	-	106.08	27.63	5.37	33.79	123	61	P	H
	*	2422	94.6	-	-	95.39	27.63	5.37	33.79	123	61	A	H
		2485.3	50.63	-23.37	74	51.04	27.85	5.46	33.72	123	61	P	H
		2483.5	40.35	-13.65	54	40.77	27.84	5.46	33.72	123	61	A	H
		2389.94	58.53	-15.47	74	59.46	27.53	5.37	33.83	350	311	P	V
		2389.94	43.93	-10.07	54	44.86	27.53	5.37	33.83	350	311	A	V
	*	2422	98.2	-	-	98.99	27.63	5.37	33.79	350	311	P	V
	*	2422	88.45	-	-	89.24	27.63	5.37	33.79	350	311	A	V
		2495.1	50.24	-23.76	74	50.58	27.88	5.46	33.68	350	311	P	V
		2487.82	39.84	-14.16	54	40.24	27.86	5.46	33.72	350	311	A	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT40 Full CH 09 2452MHz		2388.26	50.76	-23.24	74	51.73	27.52	5.37	33.86	313	296	P	H
		2389.52	39.88	-14.12	54	40.85	27.52	5.37	33.86	313	296	A	H
	*	2452	104.39	-	-	105	27.74	5.41	33.76	313	296	P	H
	*	2452	93.76	-	-	94.37	27.74	5.41	33.76	313	296	A	H
		2484.67	56.35	-17.65	74	56.76	27.85	5.46	33.72	313	296	P	H
		2483.5	45.72	-8.28	54	46.14	27.84	5.46	33.72	313	296	A	H
		2389.94	51.41	-22.59	74	52.34	27.53	5.37	33.83	353	121	P	V
		2389.66	39.51	-14.49	54	40.48	27.52	5.37	33.86	353	121	A	V
	*	2452	98.84	-	-	99.45	27.74	5.41	33.76	353	121	P	V
	*	2452	89.21	-	-	89.82	27.74	5.41	33.76	353	121	A	V
		2484.53	51.75	-22.25	74	52.16	27.85	5.46	33.72	353	121	P	V
		2483.5	41.96	-12.04	54	42.38	27.84	5.46	33.72	353	121	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 be EHT 40 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
12+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT40 Full CH 03 2422MHz	-	4844	40.86	-33.14	74	50.25	31.62	8.76	49.77	-	-	P	H
	-	7266	44.79	-29.21	74	48.28	36.17	10.18	49.84	-	-	P	H
	-	4844	41.22	-32.78	74	52.71	31.62	8.76	51.87	-	-	P	V
	-	7266	44.19	-29.81	74	49.6	36.17	10.18	51.76	-	-	P	V
802.11be EHT40 Full CH 06 2437MHz	-	4874	40.11	-33.89	74	51.6	31.67	8.76	51.92	-	-	P	H
	-	7311	43.79	-30.21	74	49.13	36.21	10.18	51.73	-	-	P	H
	-	4874	40.55	-33.45	74	52.04	31.67	8.76	51.92	-	-	P	V
	-	7311	44.14	-29.86	74	49.48	36.21	10.18	51.73	-	-	P	V
802.11be EHT40 Full CH 09 2452MHz	-	4904	40.53	-33.47	74	49.93	31.73	8.65	49.78	-	-	P	H
	-	7356	44.83	-29.17	74	48.44	36.26	10.18	50.05	-	-	P	H
	-	4904	39.9	-34.1	74	49.3	31.73	8.65	49.78	-	-	P	V
	-	7356	44.14	-29.86	74	47.75	36.26	10.18	50.05	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11be EHT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
12+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11 be EHT20 LF	-	55.22	18.29	-21.71	40	32.18	19.37	1.69	34.95	-	-	P	H
	-	150.28	20.84	-22.66	43.5	34.23	18.98	2.33	34.7	-	-	P	H
	-	208.48	23.95	-19.55	43.5	39.59	16.26	2.8	34.7	-	-	P	H
	-	299.66	33.64	-12.36	46	45.91	19.12	3.21	34.6	-	-	P	H
	-	341.37	29.42	-16.58	46	40.59	20.03	3.4	34.6	-	-	P	H
	-	959.26	31.76	-14.24	46	31.7	29.81	4.53	34.28	-	-	P	H
	-	37.76	19.71	-20.29	40	34.21	19.04	1.32	34.86	-	-	P	V
	-	160.95	18.93	-24.57	43.5	32.9	18.34	2.39	34.7	-	-	P	V
	-	300.63	27.13	-18.87	46	39.38	19.14	3.21	34.6	-	-	P	V
	-	355.92	25.53	-20.47	46	36.34	20.36	3.42	34.59	-	-	P	V
	-	630.43	26.62	-19.38	46	31.33	26.19	3.64	34.54	-	-	P	V
-	943.74	31.74	-14.26	46	31.91	29.63	4.5	34.3	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Co-location

802.11be EHT20_TX_CH01 + LTE_Band 48 Tx (Band Edge @ 3m)

WIFI	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
802.11be EHT20_TX_CH01 + LTE_Band 48 Tx		2389.59	60	-14	74	60.97	27.52	5.37	33.86	100	53	P	H
		2390	48.57	-5.43	54	49.5	27.53	5.37	33.83	100	53	A	H
	*	2412	102.32	-	-	103.18	27.6	5.37	33.83	100	53	P	H
	*	2412	91.97	-	-	92.83	27.6	5.37	33.83	100	53	A	H
		2389.38	57.14	-16.86	74	58.11	27.52	5.37	33.86	120	26	P	V
		2390	45.7	-8.3	54	46.63	27.53	5.37	33.83	120	26	A	V
	*	2412	95.21	-	-	96.07	27.6	5.37	33.83	120	26	P	V
	*	2412	85.76	-	-	86.62	27.6	5.37	33.83	120	26	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



802.11be EHT20_TX_CH01 + LTE_Band 48 Tx (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11be EHT20_TX_CH01 + LTE_Band 48 Tx		4824	41	-33	74	50.3	31.58	8.88	49.76	-	-	P	H
		7102.5	46.53	-27.47	74	49.78	36	10.2	49.45	-	-	P	H
		10653.75	47.03	-26.97	74	44.56	39.42	12.29	49.24	-	-	P	H
		14204	47.24	-26.76	74	40.47	41.21	13.98	48.42	-	-	P	H
		4824	40.93	-33.07	74	50.23	31.58	8.88	49.76	-	-	P	V
		7102.5	46.91	-27.09	74	50.16	36	10.2	49.45	-	-	P	V
		10653.75	47.09	-26.91	74	44.62	39.42	12.29	49.24	-	-	P	V
		14204	47.62	-26.38	74	40.85	41.21	13.98	48.42	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
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. Over Limit(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. Over Limit(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. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

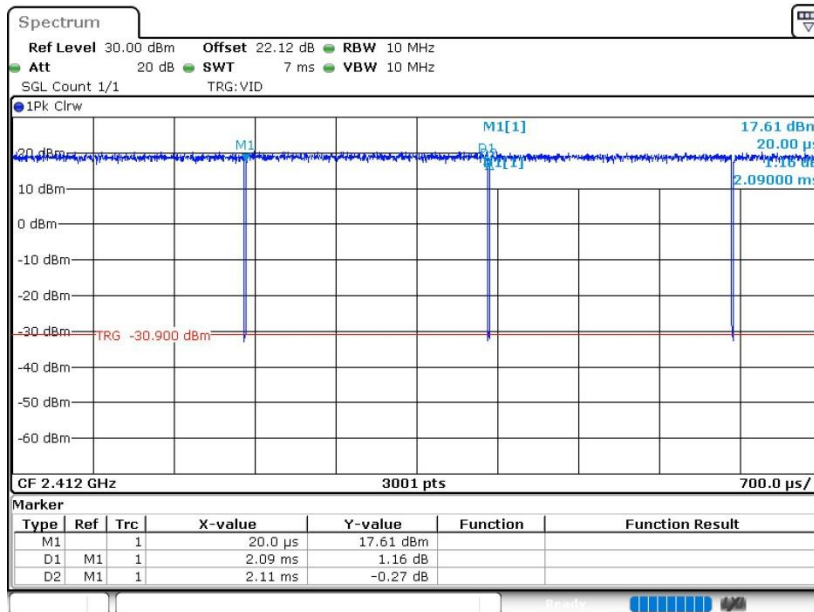
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

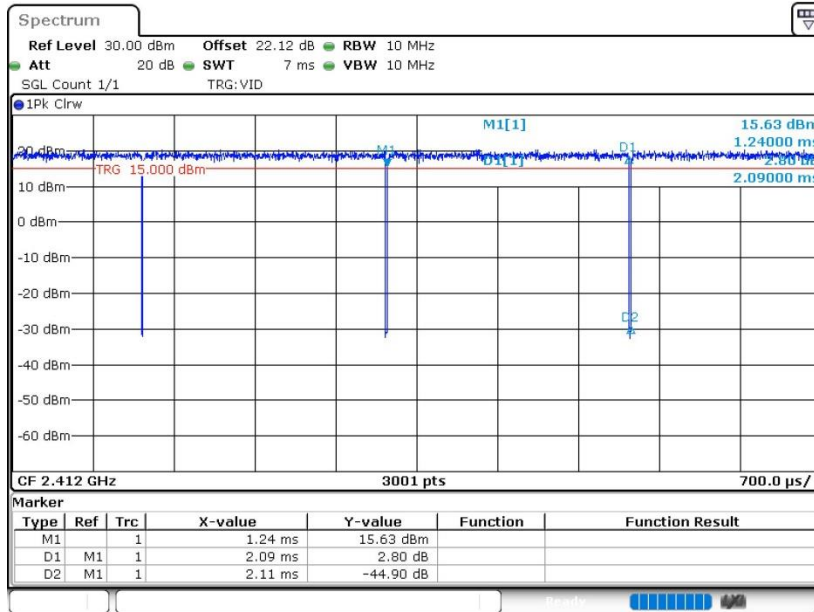
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
12+7	802.11b	99.05	-	-	10Hz
12+7	802.11g	99.05	-	-	10Hz
12+7	802.11be EHT20	99.63	-	-	10Hz
12+7	802.11be EHT40	99.63	-	-	10Hz
12+7	Single Partial RU 802 11be EHT20	99.63	-	-	10Hz
12+7	Small Partial RU 802 11be EHT20	99.63	-	-	10Hz

802.11b

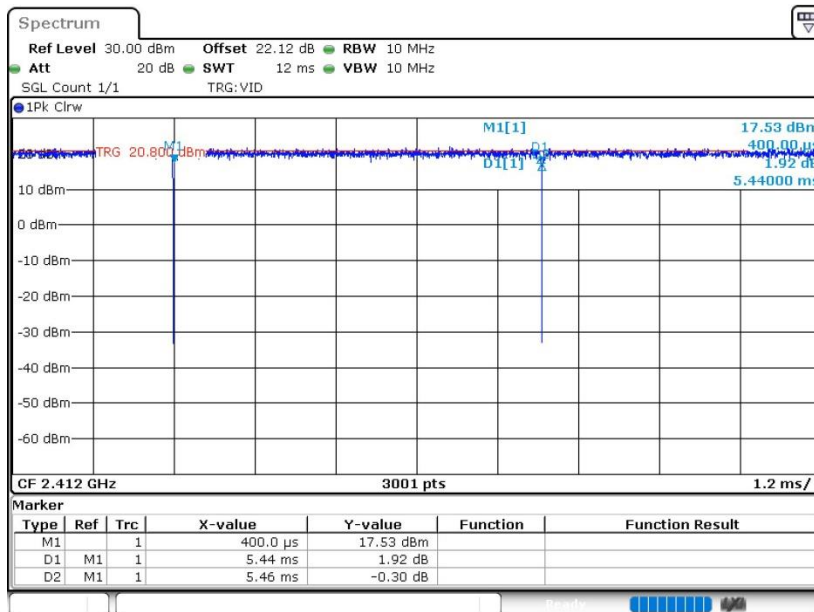




802.11g



802.11be EHT20 / Single Partial RU / Small Partial RU





802.11be EHT40

