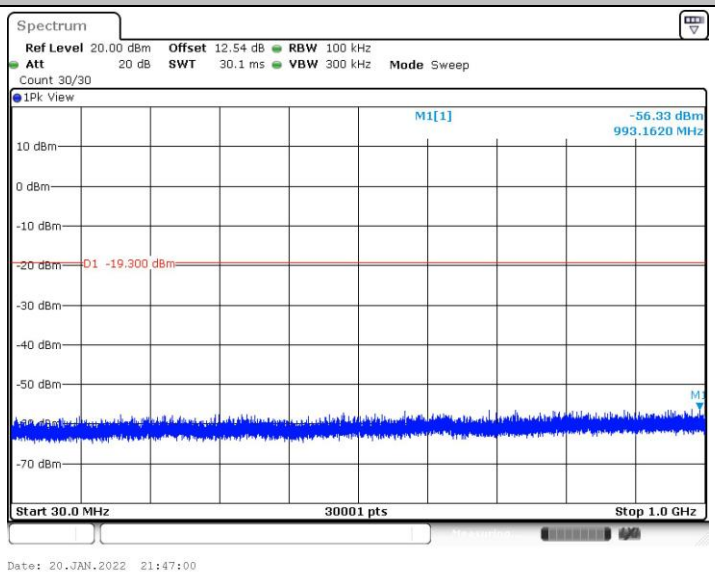
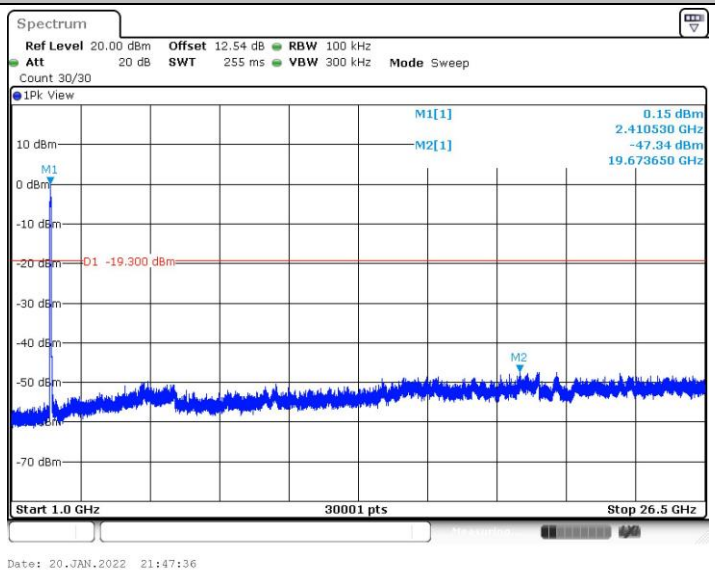
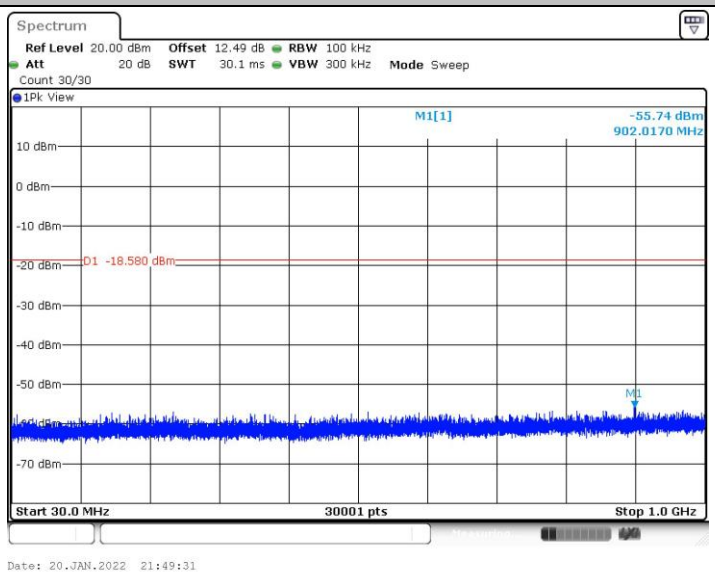
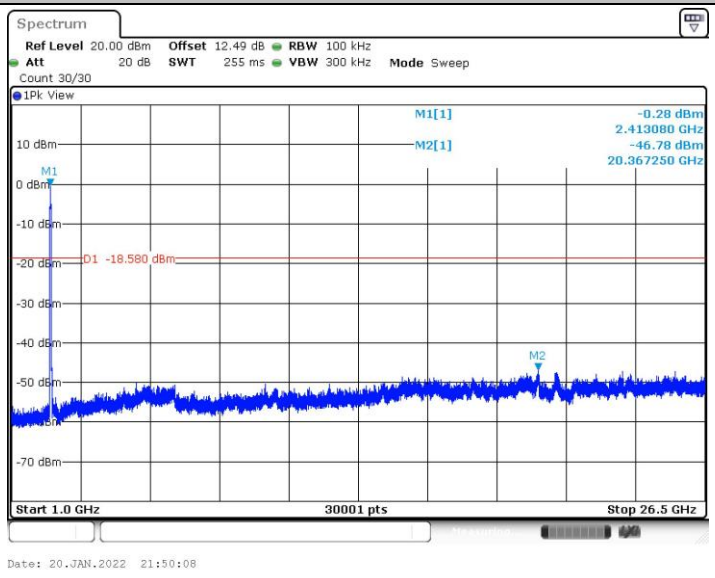
11AX40-CDD_Ant1_2422_30~1000


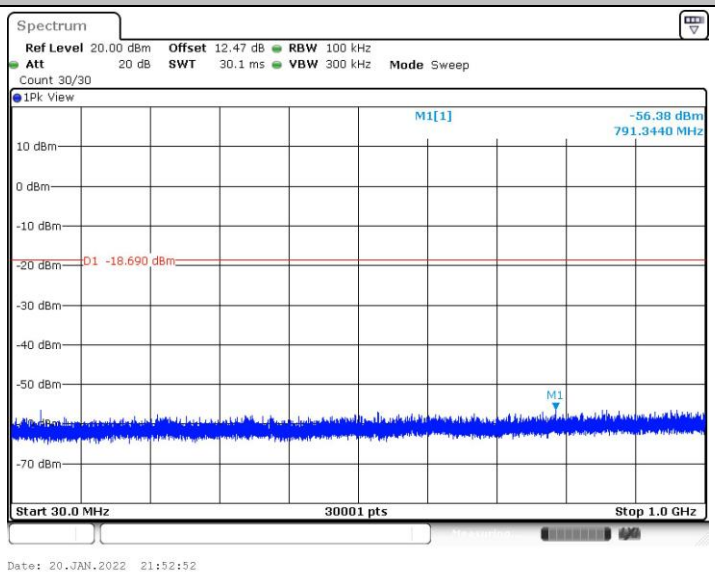
11AX40-CDD_Ant1_2422_1000~26500


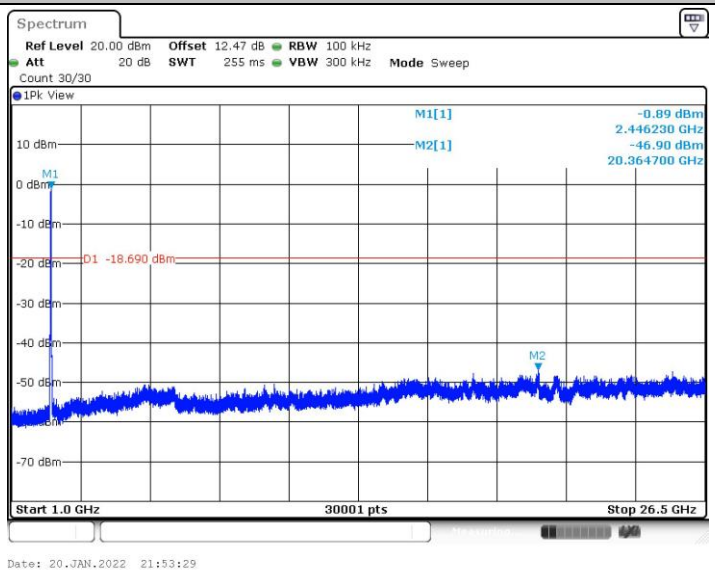
11AX40-CDD_Ant2_2422_30~1000



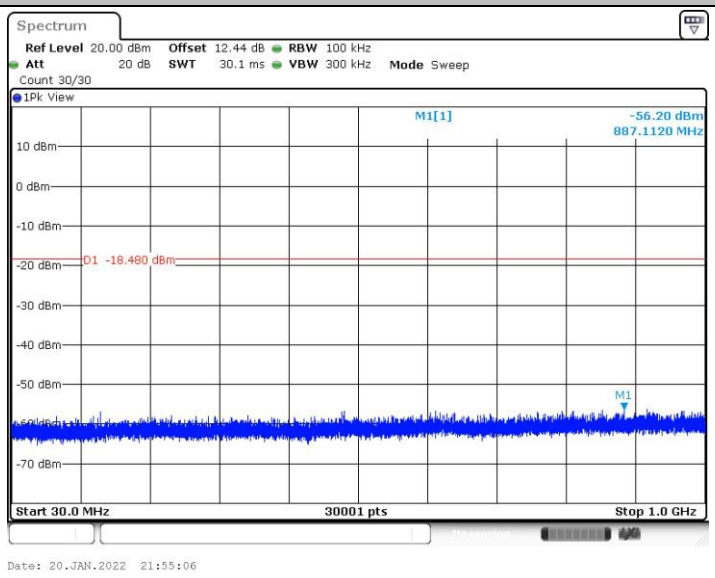
11AX40-CDD_Ant2_2422_1000~26500



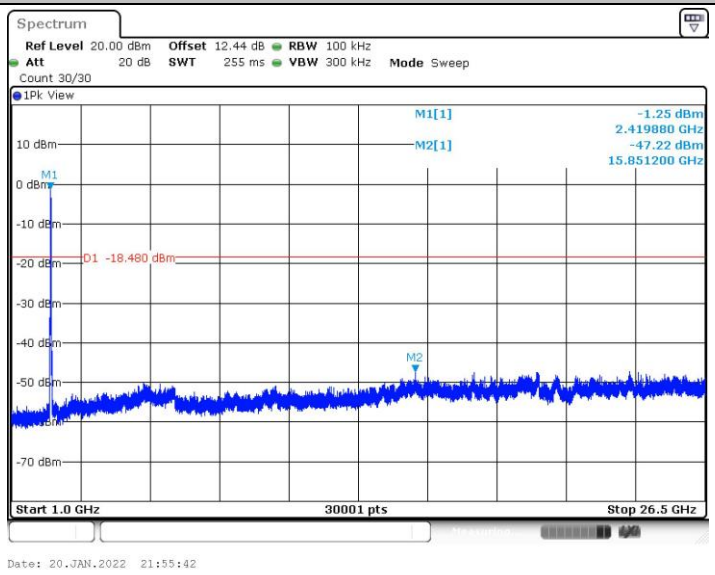
11AX40-CDD_Ant1_2437_30~1000


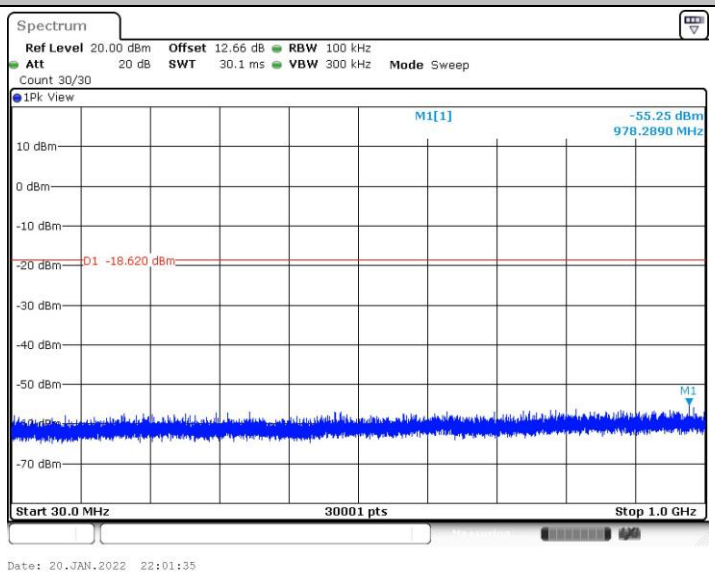
11AX40-CDD_Ant1_2437_1000~26500


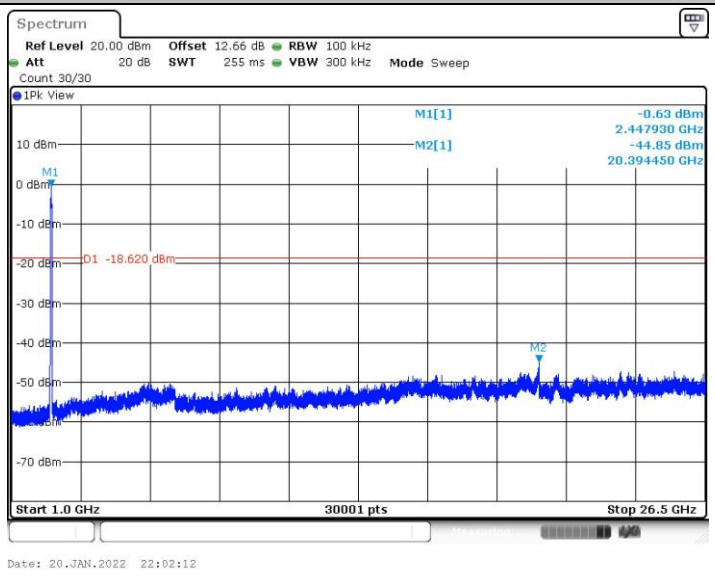
11AX40-CDD_Ant2_2437_30~1000



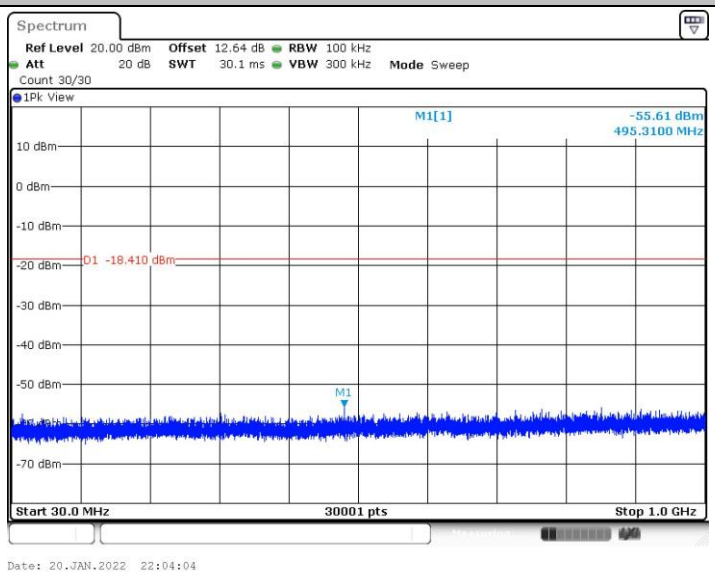
11AX40-CDD_Ant2_2437_1000~26500



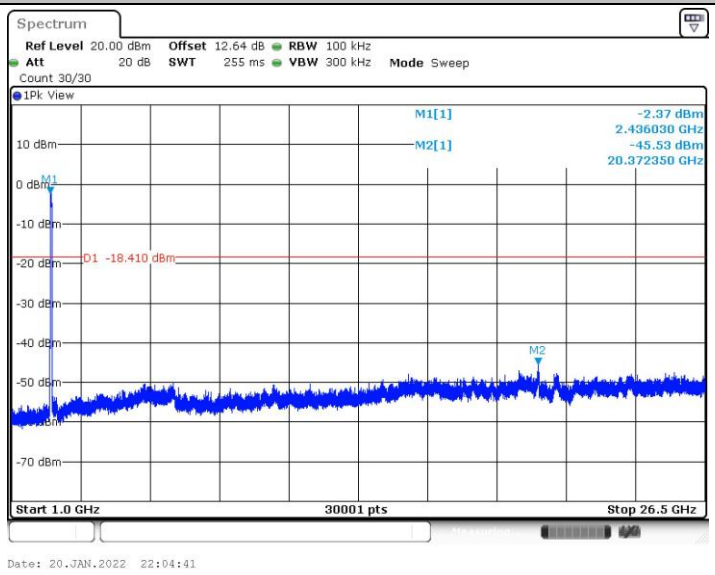
11AX40-CDD_Ant1_2452_30~1000


11AX40-CDD_Ant1_2452_1000~26500


11AX40-CDD_Ant2_2452_30~1000



11AX40-CDD_Ant2_2452_1000~26500



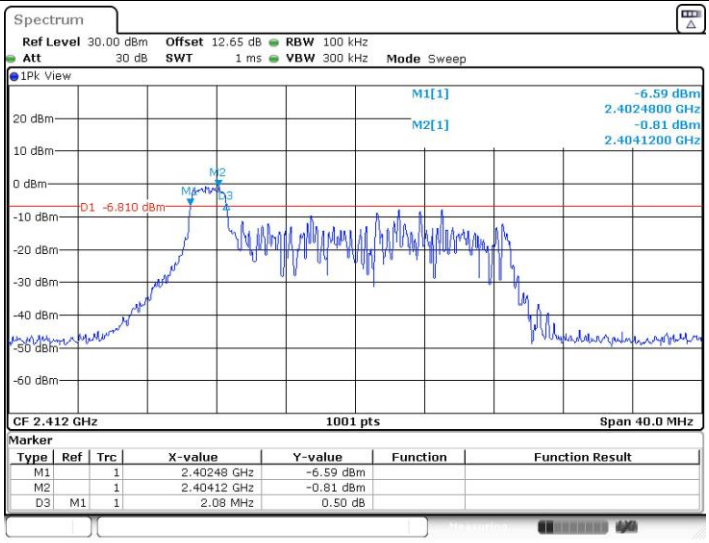
DTS Bandwidth for partial RU

Test Result

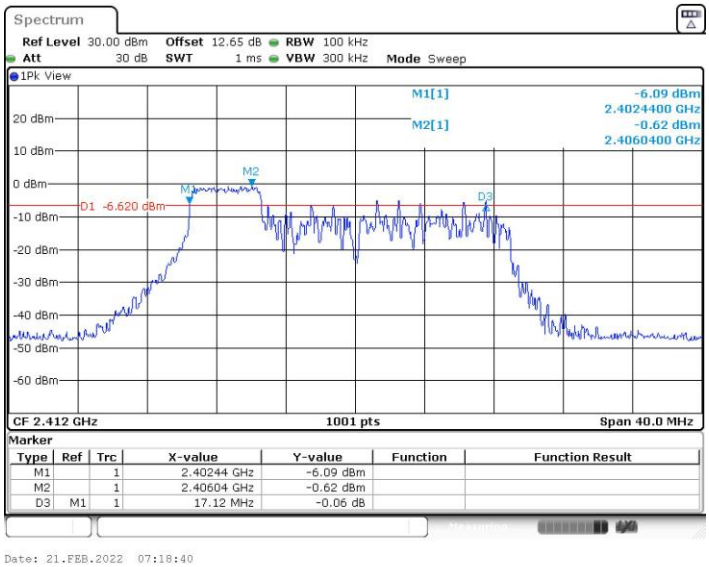
Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	2412	26Tone	RU0	2.08	2402.48	2404.56	0.5	PASS
			52Tone	RU37	17.12	2402.44	2419.56	0.5	PASS
			106Tone	RU53	15.88	2402.44	2418.32	0.5	PASS
	Ant2	2412	26Tone	RU0	2.08	2402.48	2404.56	0.5	PASS
			52Tone	RU37	17.08	2402.44	2419.52	0.5	PASS
			106Tone	RU53	17.12	2402.44	2419.56	0.5	PASS
	Ant1	2437	26Tone	RU4	2.56	2435.72	2438.28	0.5	PASS
			52Tone	RU38	11.76	2431.56	2443.32	0.5	PASS
			106Tone	RU53	15.20	2427.44	2442.64	0.5	PASS
	Ant2	2437	26Tone	RU4	10.00	2432.00	2442.00	0.5	PASS
			52Tone	RU38	15.12	2429.44	2444.56	0.5	PASS
			106Tone	RU53	17.12	2427.44	2444.56	0.5	PASS
	Ant1	2462	26Tone	RU8	2.08	2469.44	2471.52	0.5	PASS
			52Tone	RU40	17.08	2454.44	2471.52	0.5	PASS
			106Tone	RU54	17.12	2454.44	2471.56	0.5	PASS
	Ant2	2462	26Tone	RU8	2.04	2469.48	2471.52	0.5	PASS
			52Tone	RU40	13.32	2458.20	2471.52	0.5	PASS
			106Tone	RU54	17.16	2454.40	2471.56	0.5	PASS

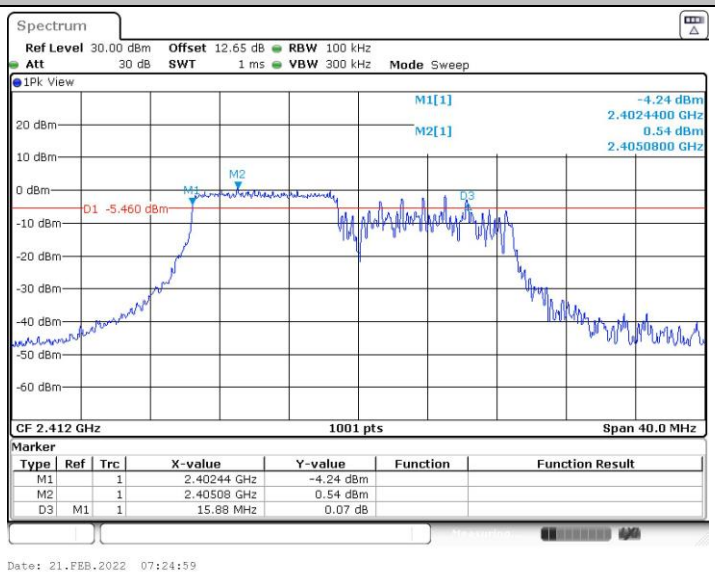
Test Graphs

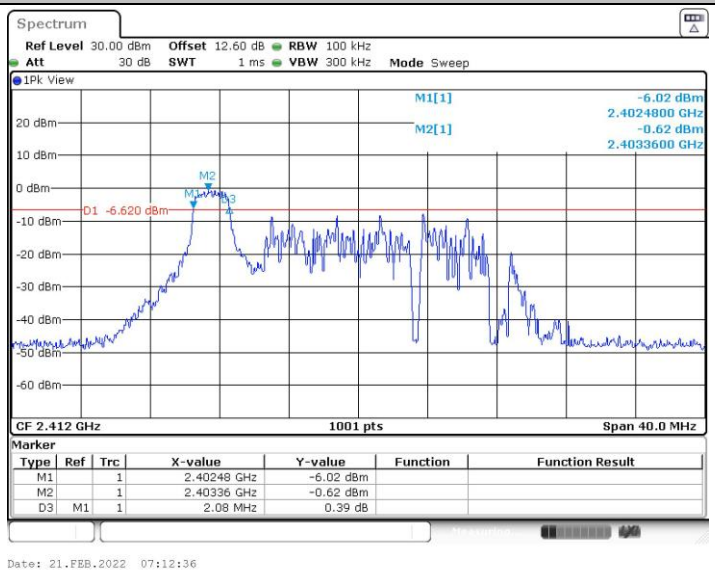
11AX20MIMO_Ant1_2412_26Tone_RU0

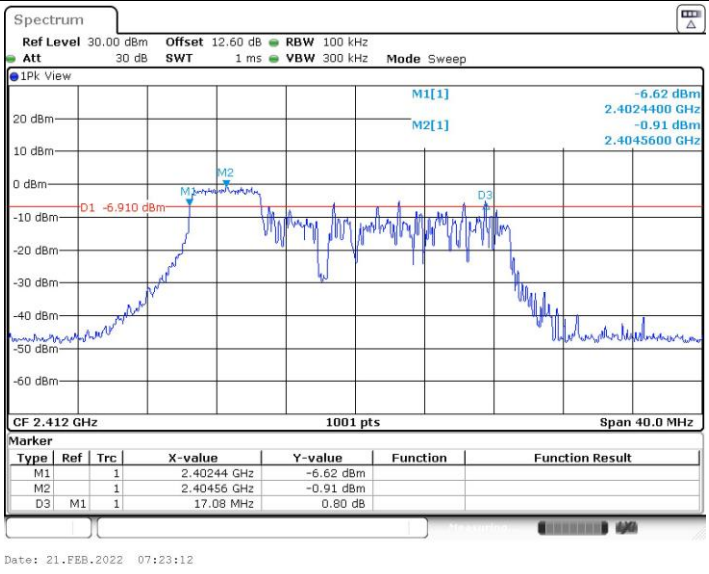


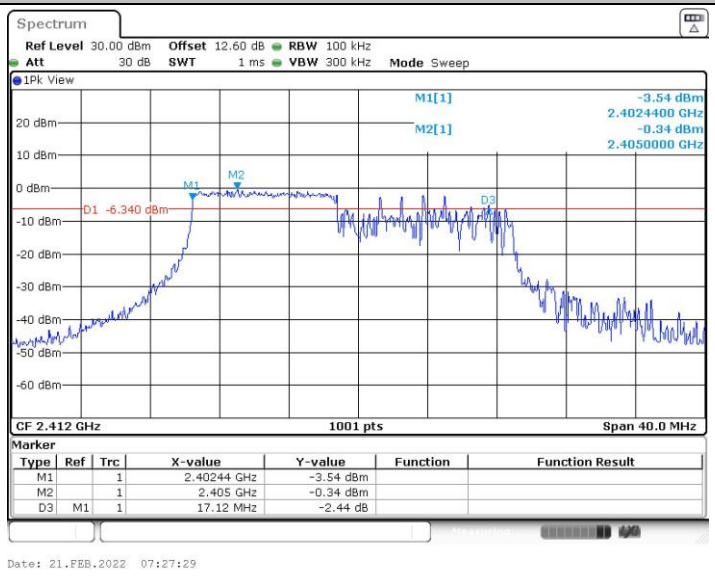
11AX20MIMO_Ant1_2412_52Tone_RU37



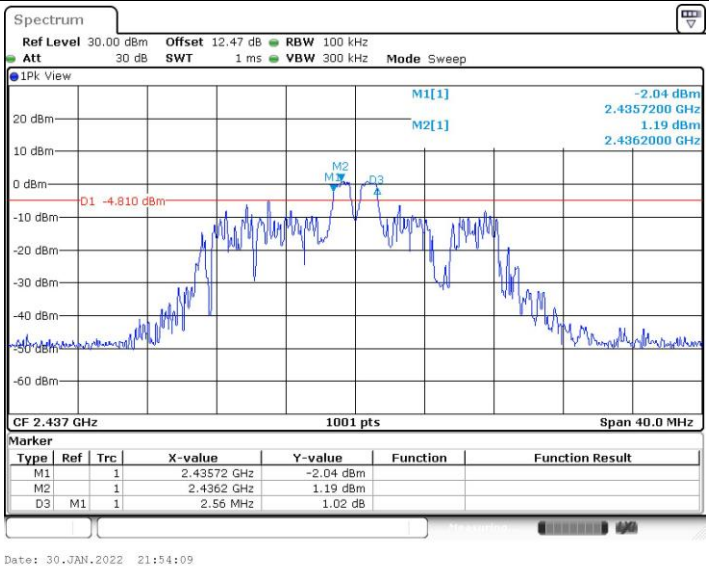
11AX20MIMO_Ant1_2412_106Tone_RU53


11AX20MIMO_Ant2_2412_26Tone_RU0


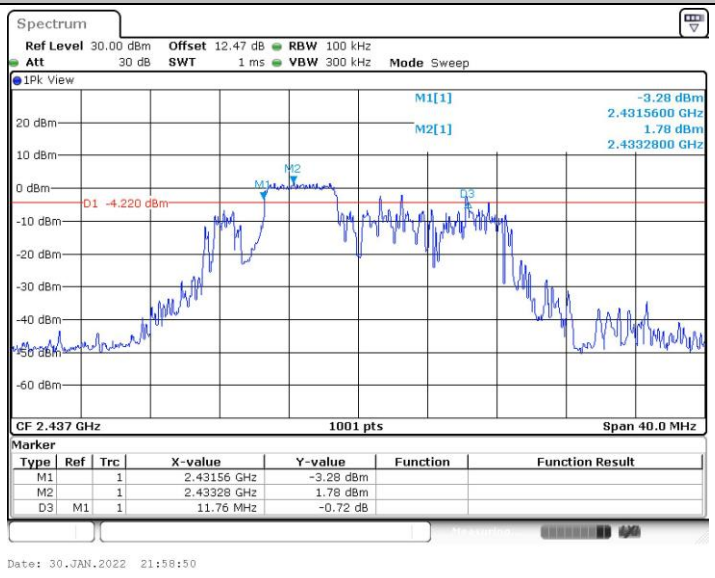
11AX20MIMO_Ant2_2412_52Tone_RU37


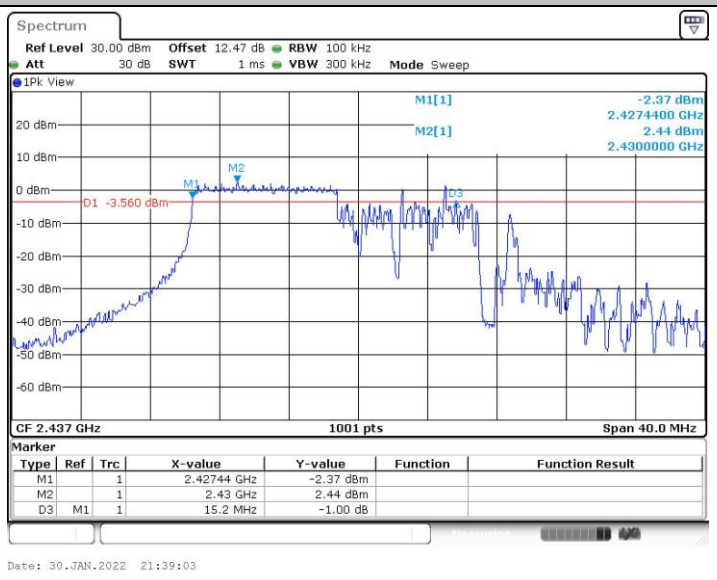
11AX20MIMO_Ant2_2412_106Tone_RU53


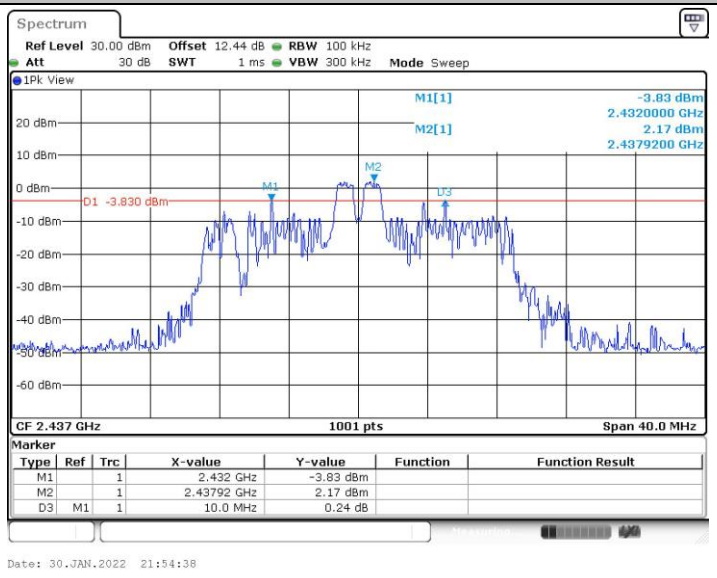
11AX20MIMO_Ant1_2437_26Tone_RU4



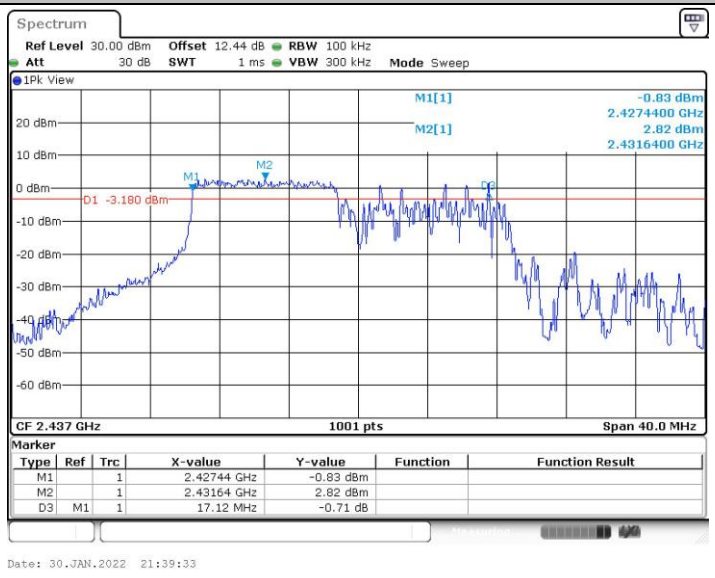
11AX20MIMO_Ant1_2437_52Tone_RU38

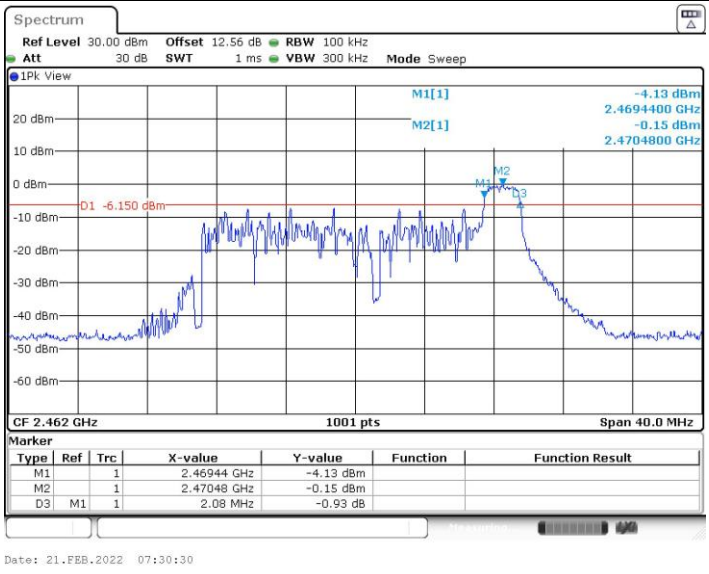


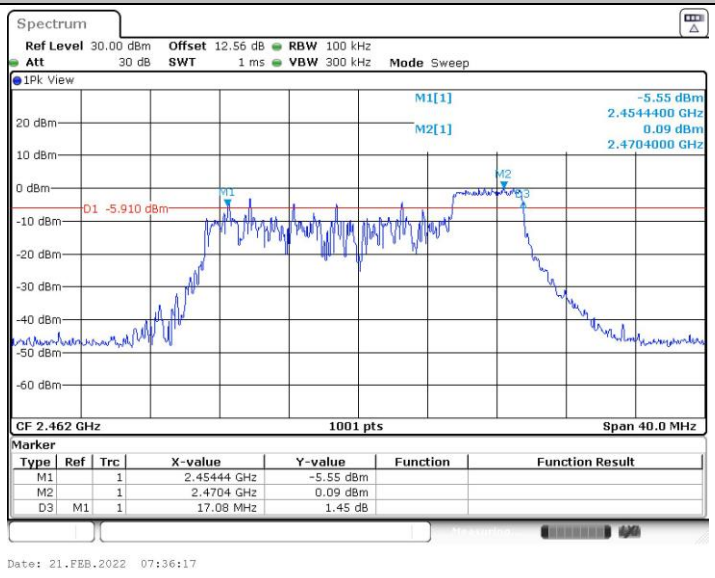
11AX20MIMO_Ant1_2437_106Tone_RU53


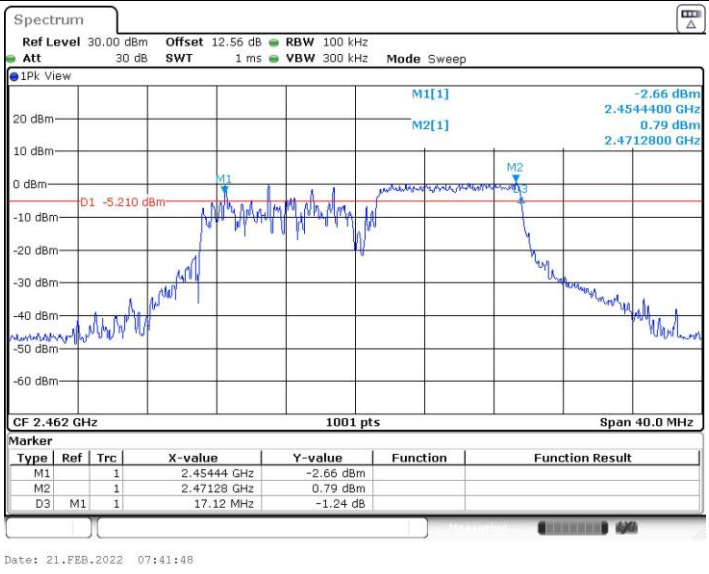
11AX20MIMO_Ant2_2437_26Tone_RU4


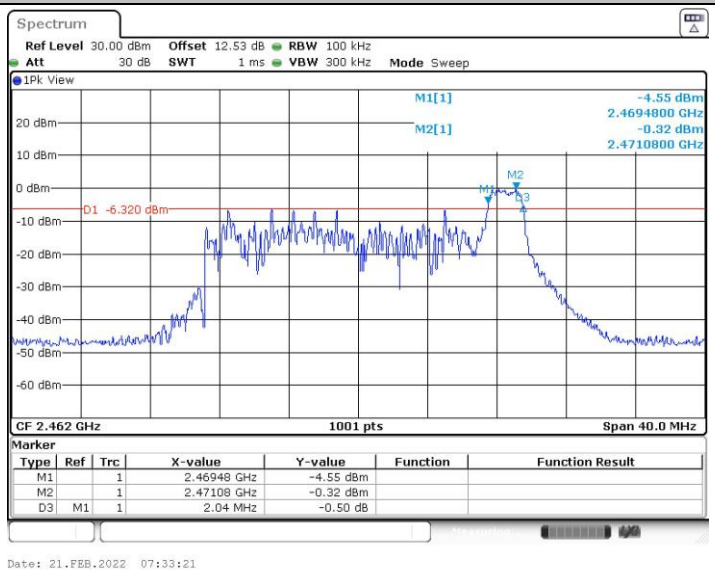
11AX20MIMO_Ant2_2437_52Tone_RU38

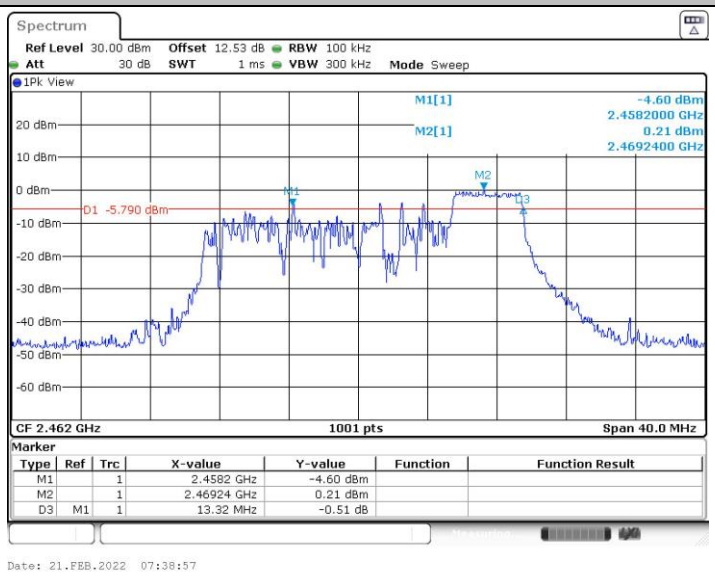

11AX20MIMO_Ant2_2437_106Tone_RU53


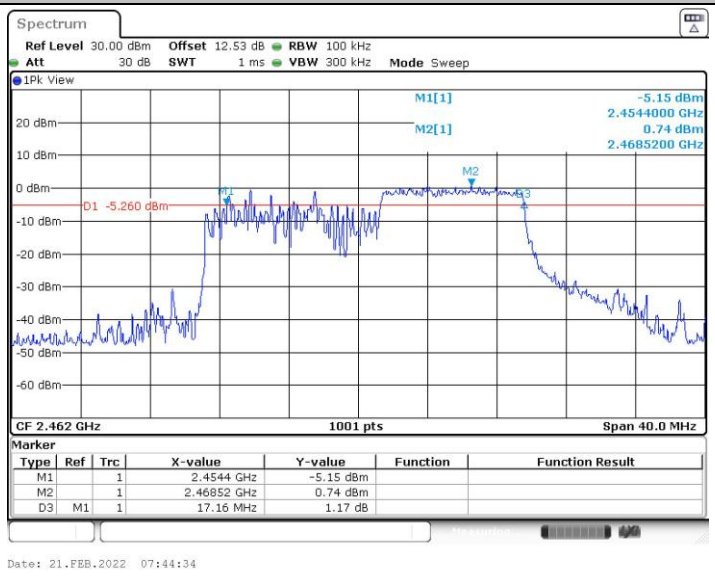
11AX20MIMO_Ant1_2462_26Tone_RU8


11AX20MIMO_Ant1_2462_52Tone_RU40


11AX20MIMO_Ant1_2462_106Tone_RU54


11AX20MIMO_Ant2_2462_26Tone_RU8


11AX20MIMO_Ant2_2462_52Tone_RU40


11AX20MIMO_Ant2_2462_106Tone_RU54


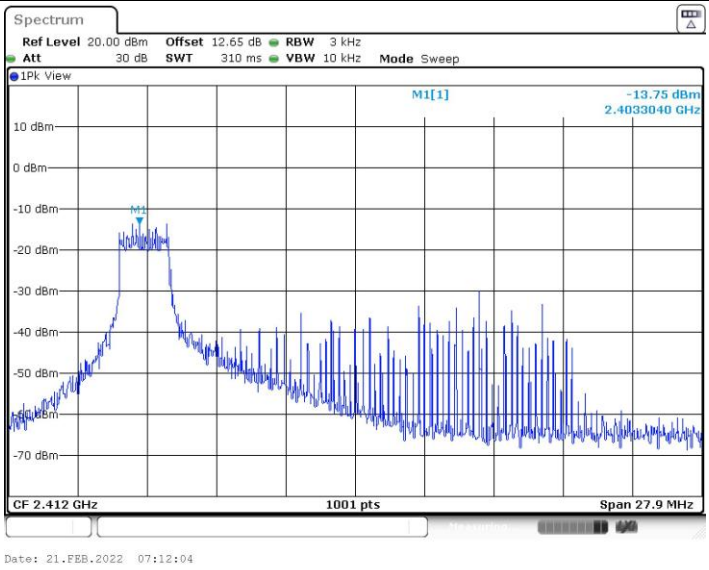
Maximum power spectral density for partial RU

Test Result

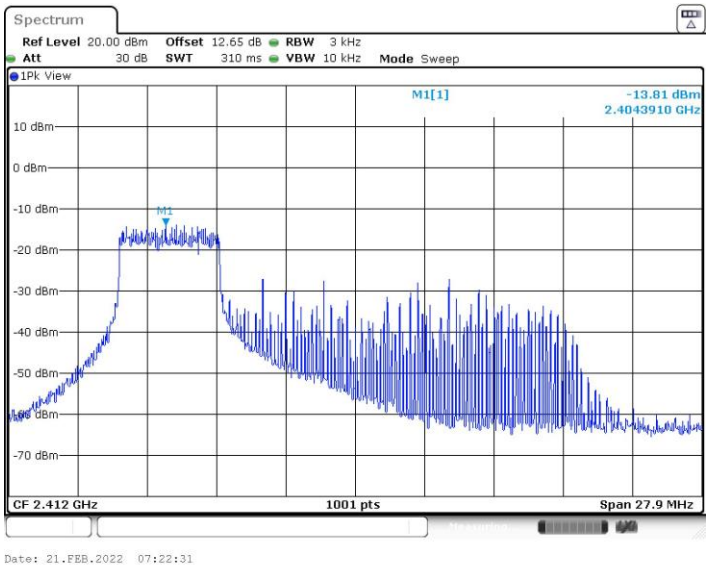
TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11AX20MIMO	Ant1	2412	26Tone	RU0	-13.75	≤8.00	PASS
			52Tone	RU37	-13.81	≤8.00	PASS
			106Tone	RU53	-13.83	≤8.00	PASS
	Ant2	2412	26Tone	RU0	-13.42	≤8.00	PASS
			52Tone	RU37	-13.88	≤8.00	PASS
			106Tone	RU53	-13.74	≤8.00	PASS
	total	2412	26Tone	RU0	-10.57	≤8.00	PASS
			52Tone	RU37	-10.83	≤8.00	PASS
			106Tone	RU53	-10.77	≤8.00	PASS
	Ant1	2437	26Tone	RU4	-11.66	≤8.00	PASS
			52Tone	RU38	-11.11	≤8.00	PASS
			106Tone	RU53	-12.43	≤8.00	PASS
	Ant2	2437	26Tone	RU4	-10.67	≤8.00	PASS
			52Tone	RU38	-11.27	≤8.00	PASS
			106Tone	RU53	-9.38	≤8.00	PASS
	total	2437	26Tone	RU4	-8.13	≤8.00	PASS
			52Tone	RU38	-8.18	≤8.00	PASS
			106Tone	RU53	-7.63	≤8.00	PASS
	Ant1	2462	26Tone	RU8	-13.45	≤8.00	PASS
			52Tone	RU40	-13.45	≤8.00	PASS
			106Tone	RU54	-13.63	≤8.00	PASS
	Ant2	2462	26Tone	RU8	-12.55	≤8.00	PASS
			52Tone	RU40	-13.24	≤8.00	PASS
			106Tone	RU54	-12.93	≤8.00	PASS
	total	2462	26Tone	RU8	-9.97	≤8.00	PASS
			52Tone	RU40	-10.33	≤8.00	PASS
			106Tone	RU54	-10.26	≤8.00	PASS

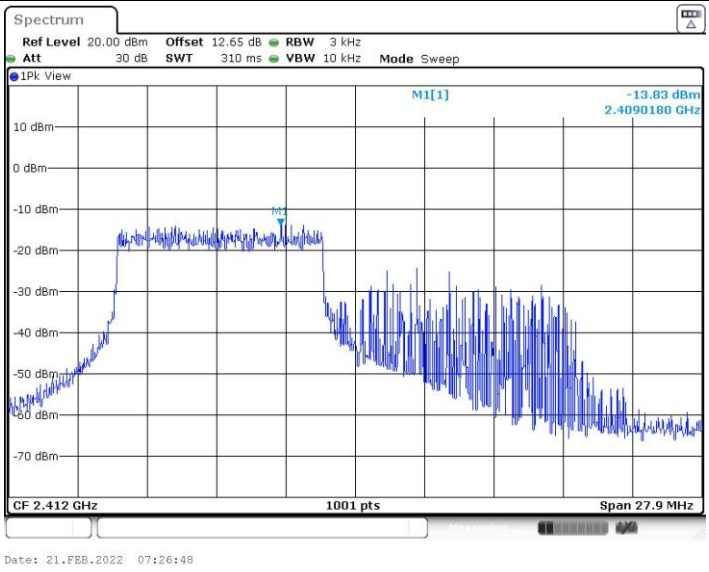
Test Graphs

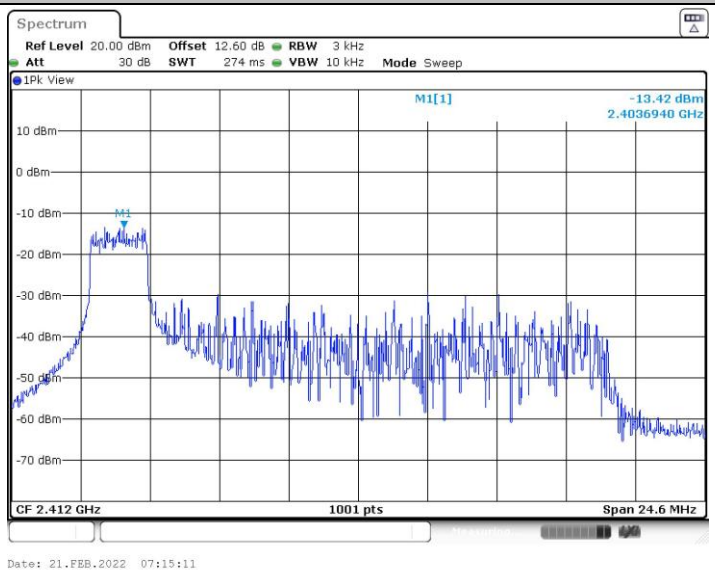
11AX20MIMO_Ant1_2412_26Tone_RU0

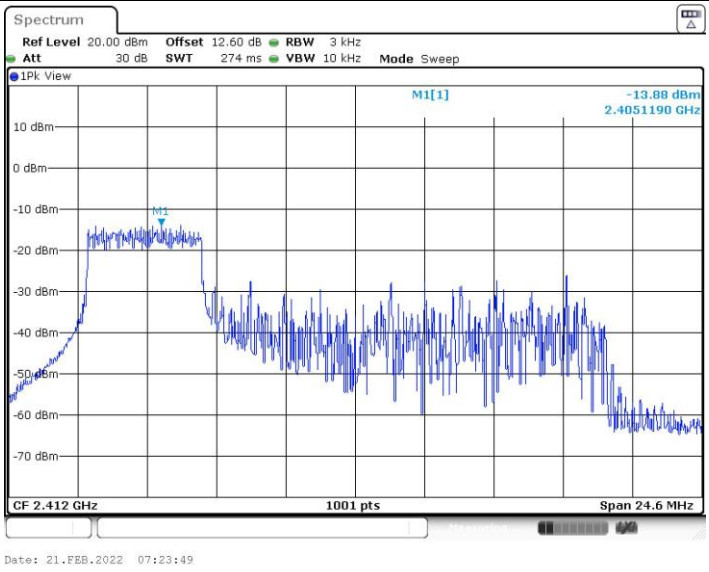


11AX20MIMO_Ant1_2412_52Tone_RU37



11AX20MIMO_Ant1_2412_106Tone_RU53


11AX20MIMO_Ant2_2412_26Tone_RU0


11AX20MIMO_Ant2_2412_52Tone_RU37

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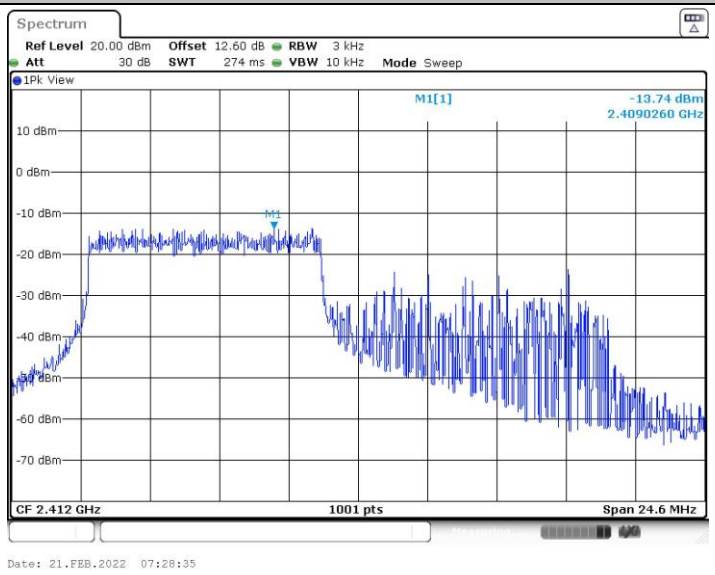
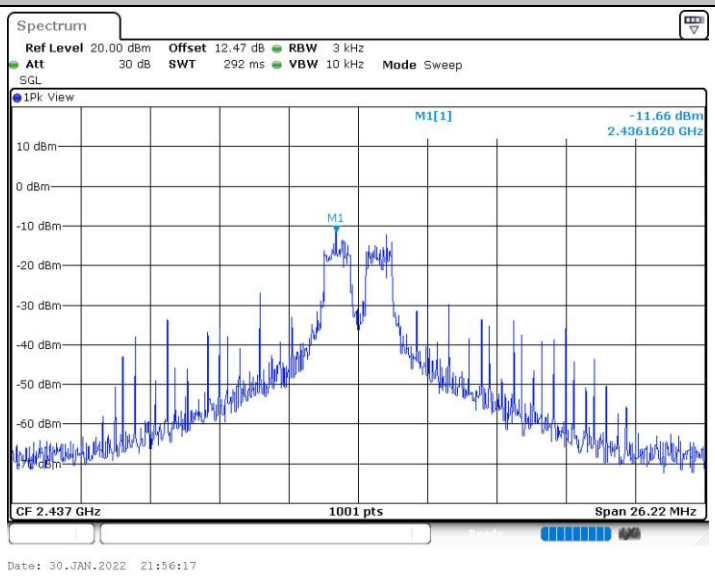
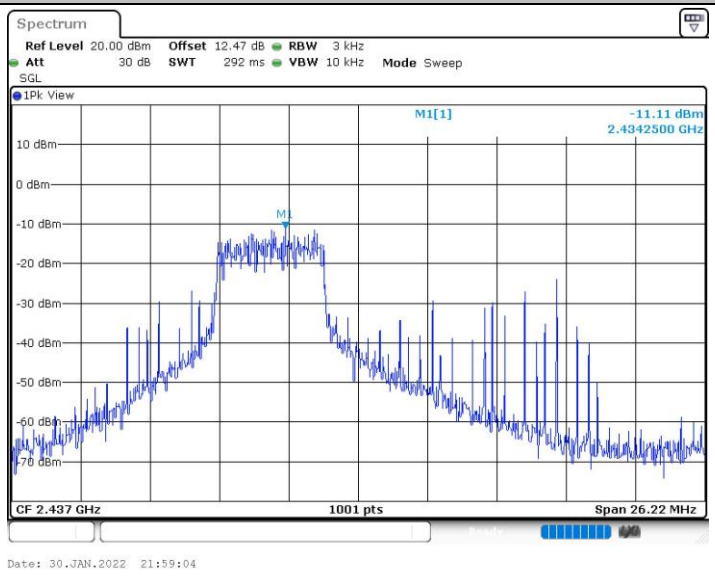
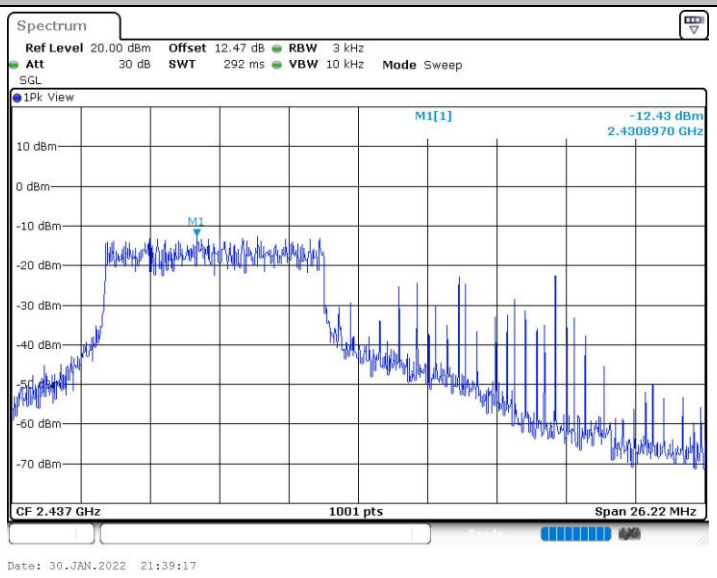
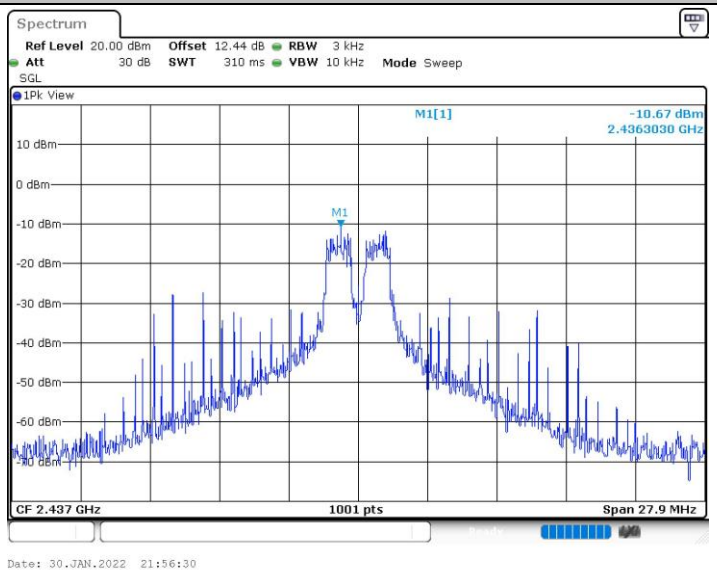
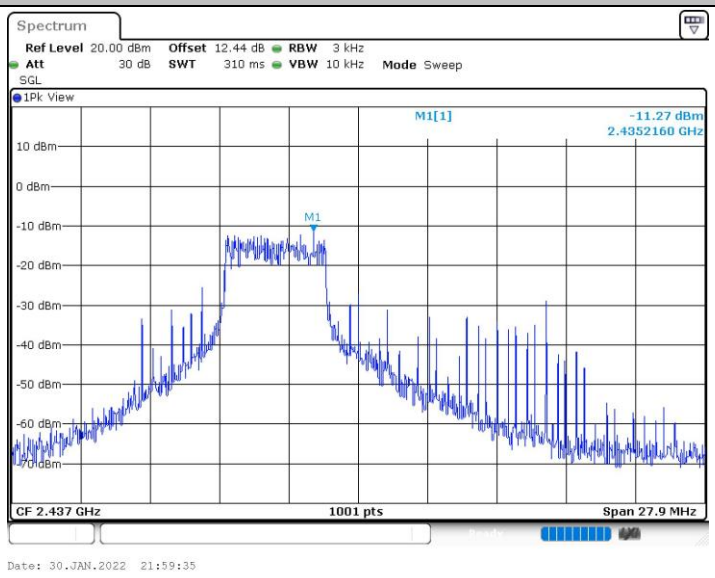


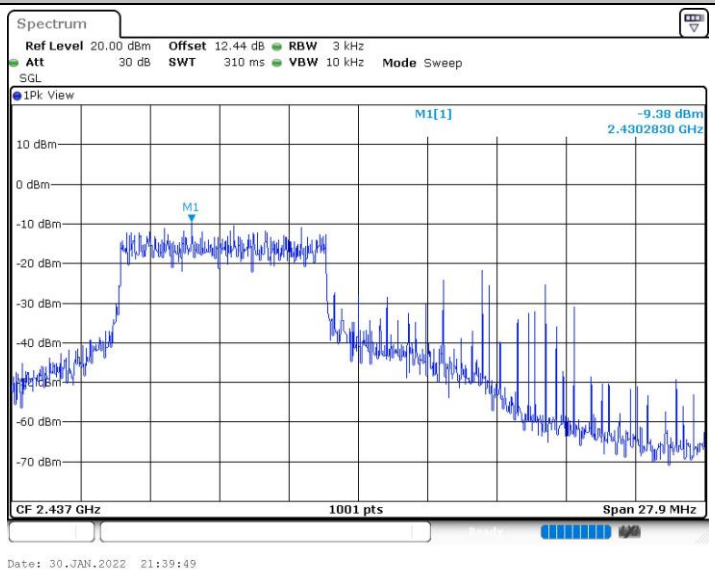
11AX20MIMO_Ant1_2437_26Tone_RU4


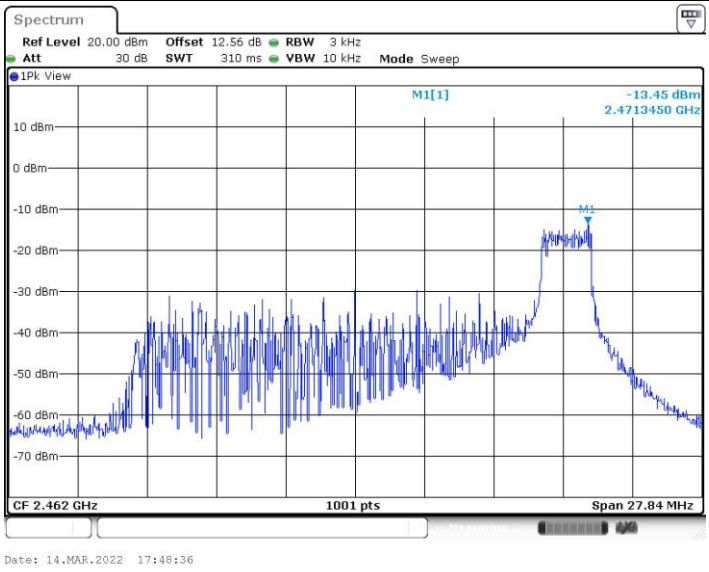
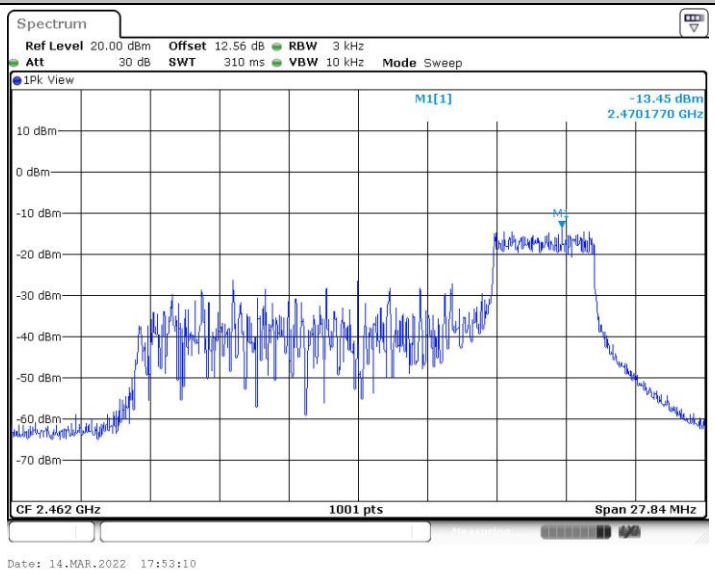
11AX20MIMO_Ant1_2437_52Tone_RU38


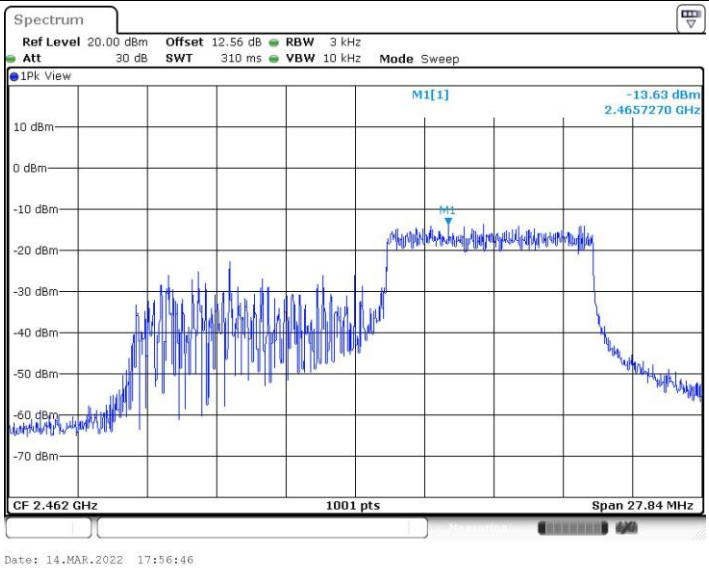
11AX20MIMO_Ant1_2437_106Tone_RU53


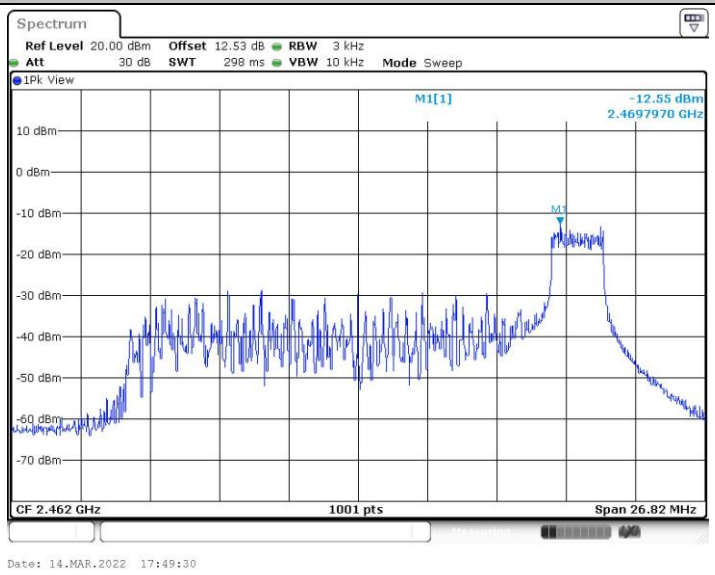
11AX20MIMO_Ant2_2437_26Tone_RU4


11AX20MIMO_Ant2_2437_52Tone_RU38


11AX20MIMO_Ant2_2437_106Tone_RU53


11AX20MIMO_Ant1_2462_26Tone_RU8

11AX20MIMO_Ant1_2462_52Tone_RU40


11AX20MIMO_Ant1_2462_106Tone_RU54


11AX20MIMO_Ant2_2462_26Tone_RU8


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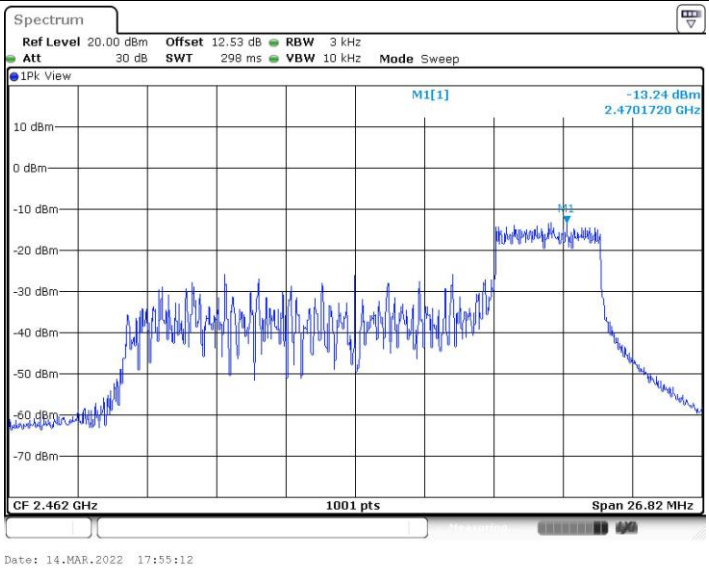
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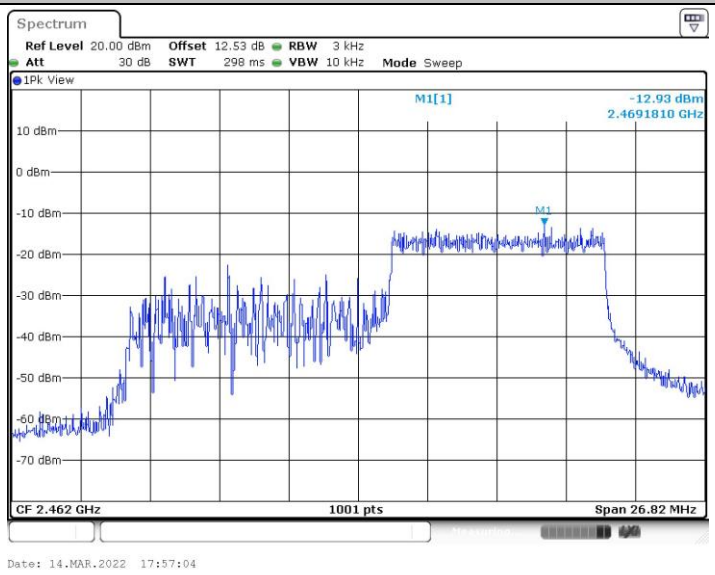
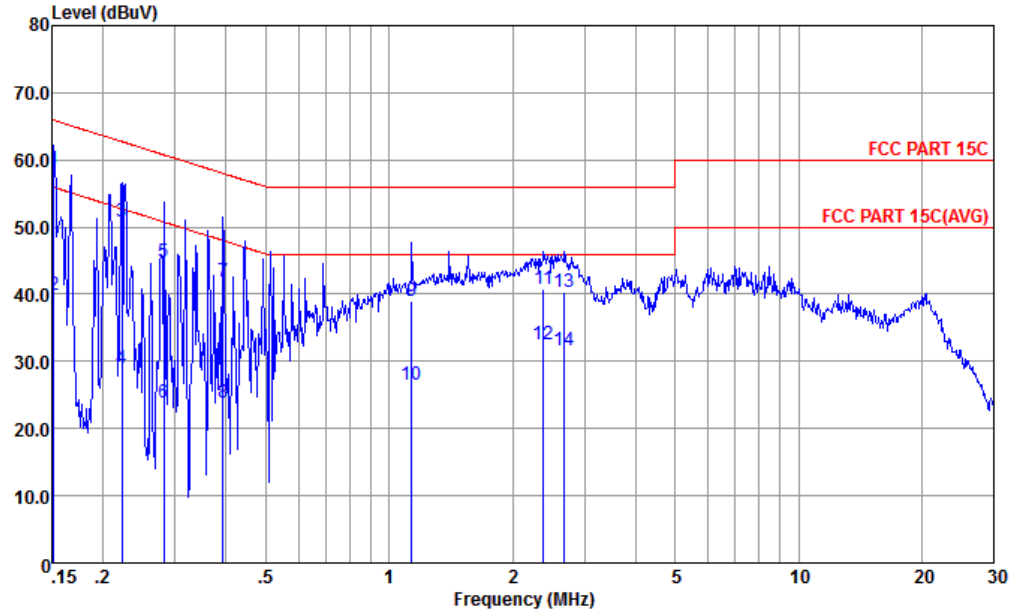


Appendix B. AC Conducted Emission Test Results

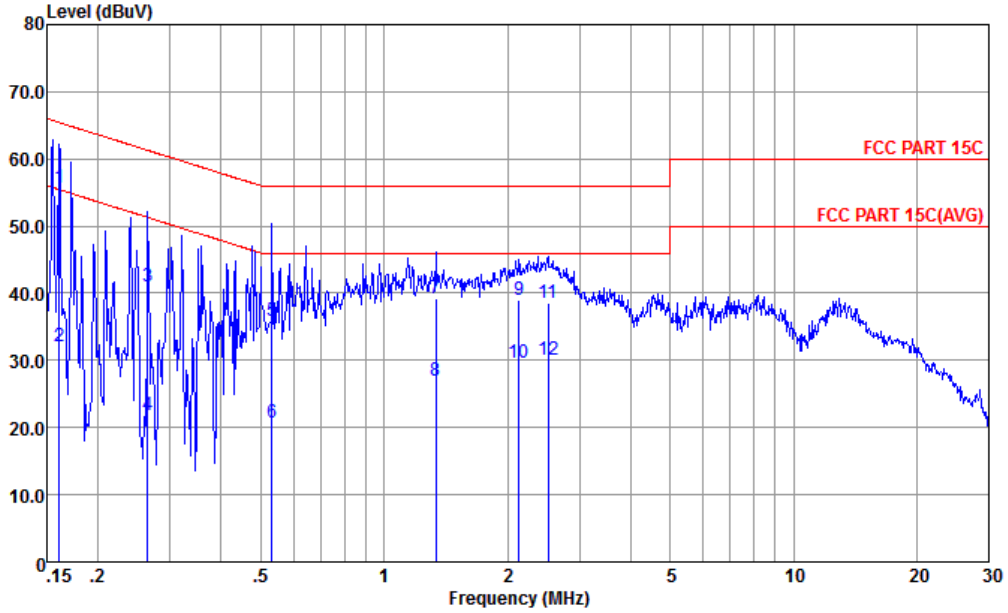
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15C LISN-060105-L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.152	58.70	-7.21	65.91	48.20	0.02	10.48	QP
2		0.152	40.00	-15.91	55.91	29.50	0.02	10.48	Average
3		0.222	50.90	-11.84	62.74	40.50	0.05	10.35	QP
4		0.222	28.90	-23.84	52.74	18.50	0.05	10.35	Average
5		0.282	44.88	-15.88	60.76	34.49	0.07	10.32	QP
6		0.282	23.88	-26.88	50.76	13.49	0.07	10.32	Average
7		0.393	41.85	-16.14	57.99	31.49	0.09	10.27	QP
8		0.393	23.85	-24.14	47.99	13.49	0.09	10.27	Average
9		1.135	38.96	-17.04	56.00	28.60	0.13	10.23	QP
10		1.135	26.46	-19.54	46.00	16.10	0.13	10.23	Average
11		2.384	40.88	-15.12	56.00	30.51	0.14	10.23	QP
12		2.384	32.58	-13.42	46.00	22.21	0.14	10.23	Average
13		2.678	40.28	-15.72	56.00	29.89	0.15	10.24	QP
14		2.678	31.58	-14.42	46.00	21.19	0.15	10.24	Average

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15C LISN-060105-N NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.161	55.76	-9.67	65.43	45.20	0.11	10.45	QP
2		0.161	32.06	-23.37	55.43	21.50	0.11	10.45	Average
3		0.264	41.02	-20.27	61.29	30.60	0.10	10.32	QP
4		0.264	21.92	-29.37	51.29	11.50	0.10	10.32	Average
5		0.532	35.85	-20.15	56.00	25.50	0.11	10.24	QP
6		0.532	20.65	-25.35	46.00	10.30	0.11	10.24	Average
7		1.338	39.16	-16.84	56.00	28.80	0.13	10.23	QP
8		1.338	26.96	-19.04	46.00	16.60	0.13	10.23	Average
9		2.133	38.97	-17.03	56.00	28.60	0.14	10.23	QP
10		2.133	29.67	-16.33	46.00	19.30	0.14	10.23	Average
11		2.513	38.58	-17.42	56.00	28.19	0.15	10.24	QP
12		2.513	29.98	-16.02	46.00	19.59	0.15	10.24	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. 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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
15+16		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.22	49.53	-24.47	74	49.94	31.96	7.11	39.48	110	86	P	H
		2387.22	39.95	-14.05	54	40.36	31.96	7.11	39.48	110	86	A	H
		2412	105.41	---	---	105.74	32.02	7.15	39.5	110	86	P	H
		2414	102.96	---	---	103.27	32.03	7.16	39.5	110	86	A	H
		2388.78	49.2	-24.8	74	49.6	31.97	7.11	39.48	368	240	P	V
		2387.22	38.83	-15.17	54	39.24	31.96	7.11	39.48	368	240	A	V
		2412	102.26	---	---	102.59	32.02	7.15	39.5	368	240	P	V
		2414	99.72	---	---	100.03	32.03	7.16	39.5	368	240	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.
15+16		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	41.18	-32.82	74	62.21	34.08	10.32	65.43	100	355	P	H
		4824	40.56	-33.44	74	61.59	34.08	10.32	65.43	100	0	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 ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 15+16	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)
8802.11ax HE20 Full CH 11 2462MHz		2486.425	64.67	-9.33	74	64.69	32.17	7.29	39.48	157	293	P	H
		2485.465	50.96	-3.04	54	50.98	32.17	7.29	39.48	157	293	A	H
		2469	110.22	---	---	110.31	32.14	7.26	39.49	157	293	P	H
		2468	100.45	---	---	100.54	32.14	7.26	39.49	157	293	A	H
		2485.99	59.68	-14.32	74	59.7	32.17	7.29	39.48	320	243	P	V
		2486.32	47.02	-6.98	54	47.04	32.17	7.29	39.48	320	243	A	V
		2467.5	106.97	---	---	107.06	32.14	7.26	39.49	320	243	P	V
		2468	97.17	---	---	97.26	32.14	7.26	39.49	320	243	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 HE20 Full (Harmonic @ 3m)

WIFI Ant. 15+16	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)
802.11ax HE20 Full CH 11 2462MHz		4924.5	41.27	-32.73	74	62.24	34.02	10.45	65.44	100	360	P	H
		7386	40.9	-33.1	74	57.66	35.69	12.84	65.29	100	360	P	H
		4924.5	40.83	-33.17	74	61.8	34.02	10.45	65.44	100	2	P	V
		7386	41.91	-32.09	74	58.67	35.69	12.84	65.29	100	2	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 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 15+16	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)
802.11ax HE20 Partial 26/8 CH 11 2462MHz		2483.5	70.12	-3.88	74	69.17	32.12	8.33	39.5	100	279	P	H
		2483.5	43.15	-10.85	54	42.2	32.12	8.33	39.5	100	279	A	H
		2472	113.09	---	---	112.16	32.12	8.31	39.5	100	279	P	H
		2470	105.32	---	---	104.41	32.1	8.31	39.5	100	279	A	H
		2484.22	63.84	-10.16	74	62.89	32.12	8.33	39.5	332	37	P	V
		2484.22	41.98	-12.02	54	41.03	32.12	8.33	39.5	332	37	A	V
		2470	112.25	---	---	111.34	32.1	8.31	39.5	332	37	P	V
		2470	103.71	---	---	102.8	32.1	8.31	39.5	332	37	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 (Band Edge @ 3m)

WIFI Ant. 15+16	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)
802.11ax HE40 Full CH 09 2452MHz		2385.66	53.44	-20.56	74	53.85	31.96	7.11	39.48	106	286	P	H
		2389.82	41.49	-12.51	54	41.89	31.97	7.11	39.48	106	286	A	H
		2484.34	62.68	-11.32	74	62.7	32.17	7.29	39.48	106	286	P	H
		2485.78	50.29	-3.71	54	50.31	32.17	7.29	39.48	106	286	A	H
		2446	108.49	---	---	108.67	32.09	7.22	39.49	106	286	P	H
		2448	97.77	---	---	97.94	32.1	7.22	39.49	106	286	A	H
		2387.48	49.95	-24.05	74	50.36	31.96	7.11	39.48	371	245	P	V
		2389.95	38.63	-15.37	54	39.03	31.97	7.11	39.48	371	245	A	V
		2484.52	58.96	-15.04	74	58.98	32.17	7.29	39.48	371	245	P	V
		2485.54	45.12	-8.88	54	45.14	32.17	7.29	39.48	371	245	A	V
		2448	104.54	---	---	104.71	32.1	7.22	39.49	371	245	P	V
		2448	94.87	---	---	95.04	32.1	7.22	39.49	371	245	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)

WIFI Ant. 15+16	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)
802.11ax		4903.5	39.04	-34.96	74	60.06	34	10.42	65.44	300	360	P	H
HE40 Full		7356	41.61	-32.39	74	58.39	35.66	12.83	65.27	300	360	P	H
CH 09		4903.5	38.39	-35.61	74	59.41	34	10.42	65.44	100	301	P	V
2452MHz		7356	41.97	-32.03	74	58.75	35.66	12.83	65.27	100	301	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 802.11ax HE20 (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.	
15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11ax HE20 LF		31.94	17.14	-22.86	40	26	22.48	0.86	32.2	-	-	P	H
		143.49	14.51	-28.99	43.5	27.51	17.02	2.09	32.11	-	-	P	H
		229.82	18.28	-27.72	46	30.61	17.19	2.64	32.16	-	-	P	H
		288.99	17.71	-28.29	46	27.71	19.15	2.97	32.12	-	-	P	H
		370.47	17.03	-28.97	46	24.79	21.13	3.35	32.24	-	-	P	H
		611.03	23.39	-22.61	46	25.24	26.13	4.3	32.28	100	0	P	H
		45.52	27.55	-12.45	40	41.9	16.68	1.17	32.2	100	0	P	V
		75.59	20.03	-19.97	40	37.46	13.28	1.49	32.2	-	-	P	V
		334.58	17.11	-28.89	46	25.89	20.2	3.19	32.17	-	-	P	V
		522.76	21.49	-24.51	46	25.22	24.64	3.98	32.35	-	-	P	V
		750.71	25.77	-20.23	46	24.91	28.4	4.76	32.3	-	-	P	V
		914.64	27.11	-18.89	46	24.56	29.49	5.26	32.2	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

<Simultaneous transmission>

Co-location-- WIFI 802.11 ax HE20 Full&Part 96---LTE_B48_BW_20M

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (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.
15+16		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
8802.11ax HE20 Full CH 11 2462MHz		2484.22	62.28	-11.72	74	61.33	32.12	8.33	39.5	100	281	P	H
		2483.5	50.87	-3.13	54	49.92	32.12	8.33	39.5	100	281	A	H
		2464	103.01	---	---	102.12	32.1	8.29	39.5	100	281	P	H
		2455	95.35	---	---	94.48	32.1	8.27	39.5	100	281	A	H
		2486.8	58.11	-15.89	74	57.15	32.12	8.34	39.5	210	68	P	V
		2483.8	47.3	-6.7	54	46.35	32.12	8.33	39.5	210	68	A	V
		2467	102.26	---	---	101.37	32.1	8.29	39.5	210	68	P	V
		2470	94.64	---	---	93.73	32.1	8.31	39.5	210	68	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 HE20 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.
15+16		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 11 2462MHz		4924	39.95	-34.05	74	60.41	34.1	10.88	65.44	100	3	P	H
		7388	42.88	-31.12	74	58.9	35.8	13.48	65.3	100	3	P	H
		4924	40.9	-33.1	74	61.36	34.1	10.88	65.44	300	0	P	V
		7388	42.87	-31.13	74	58.89	35.8	13.48	65.3	300	0	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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		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)

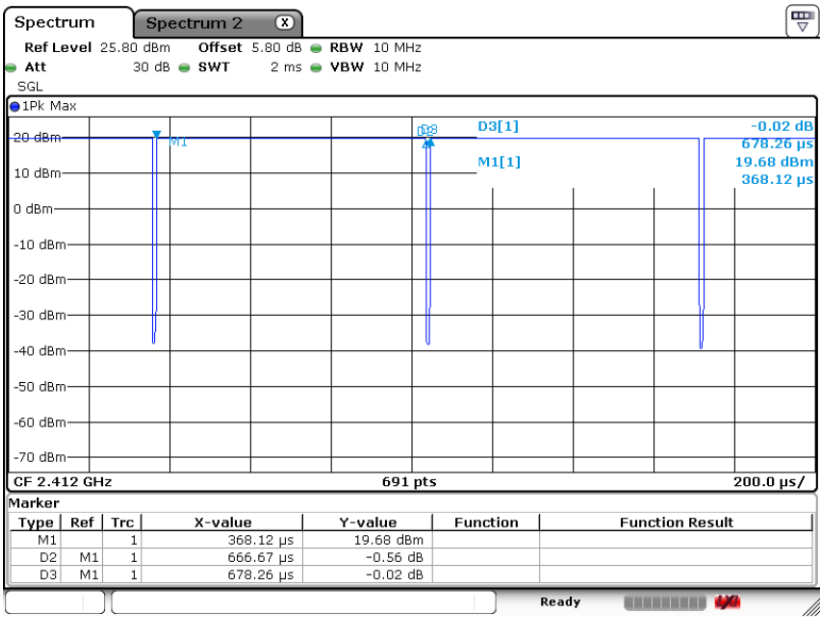
= -10.46(dB)

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

Appendix D. Duty Cycle Plots

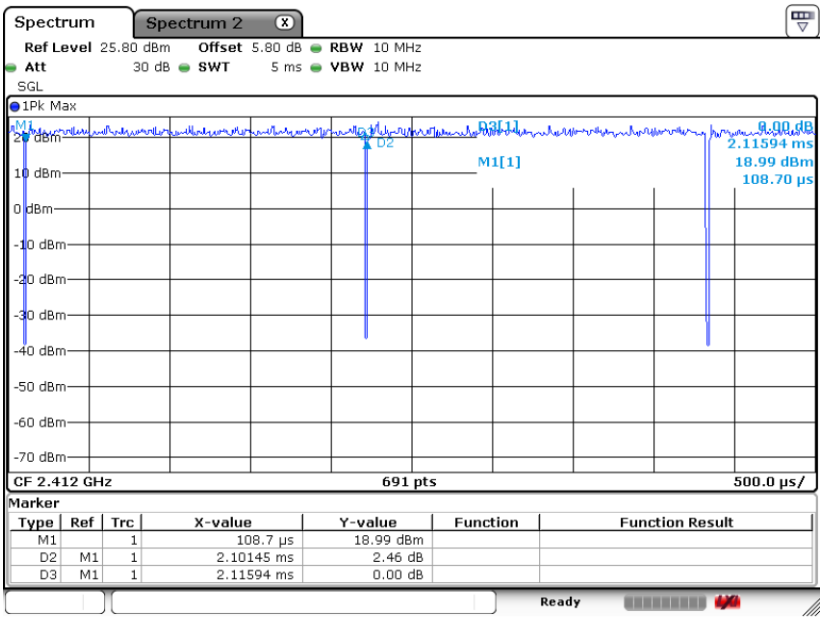
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.29	-	-	10Hz
802.11g	99.32	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz
802.11ax HE20-26ru	100	-	-	10Hz
802.11ax HE20-52ru	100	-	-	10Hz
802.11ax HE20-106ru	100	-	-	10Hz

802.11b



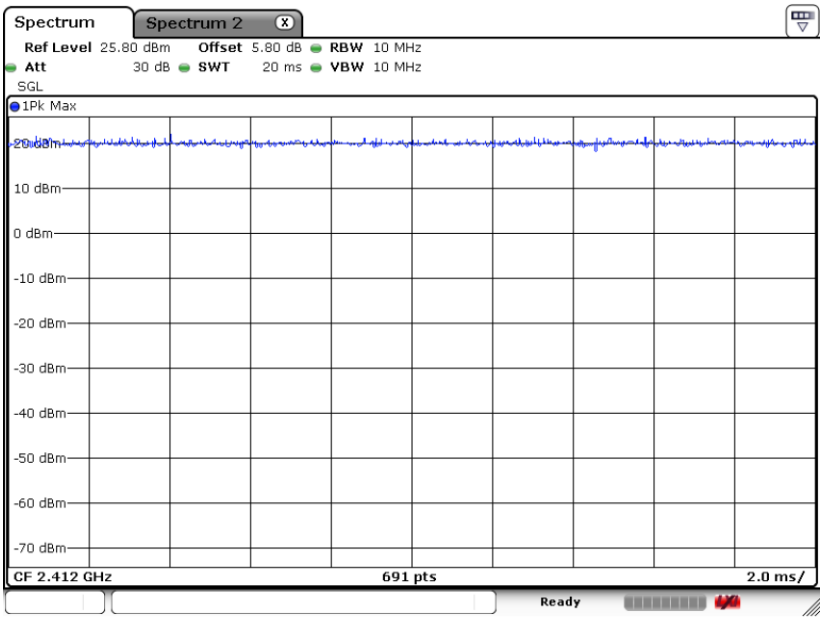
Date: 10.JAN.2022 14:18:49

802.11g



Date: 10.JAN.2022 14:09:00

802.11ax HE20



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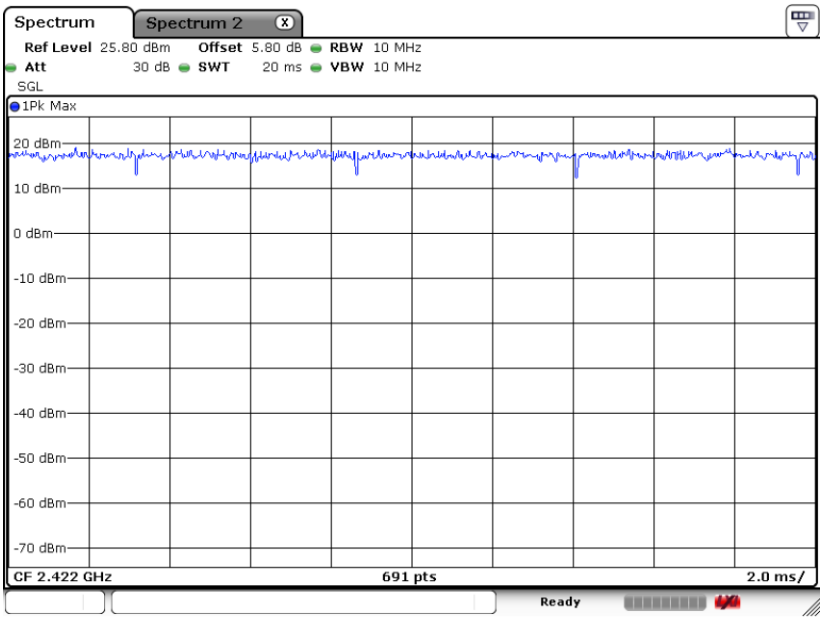
802.11ax HE40



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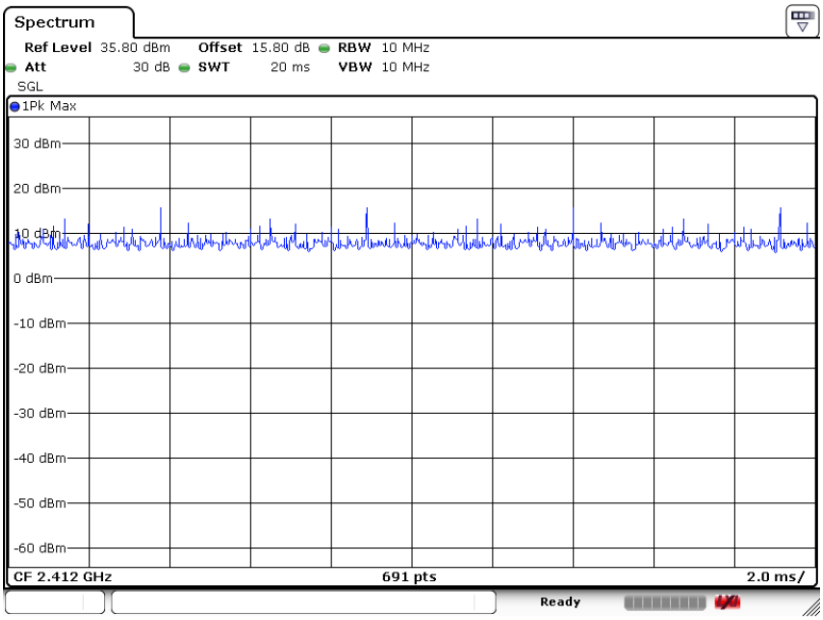

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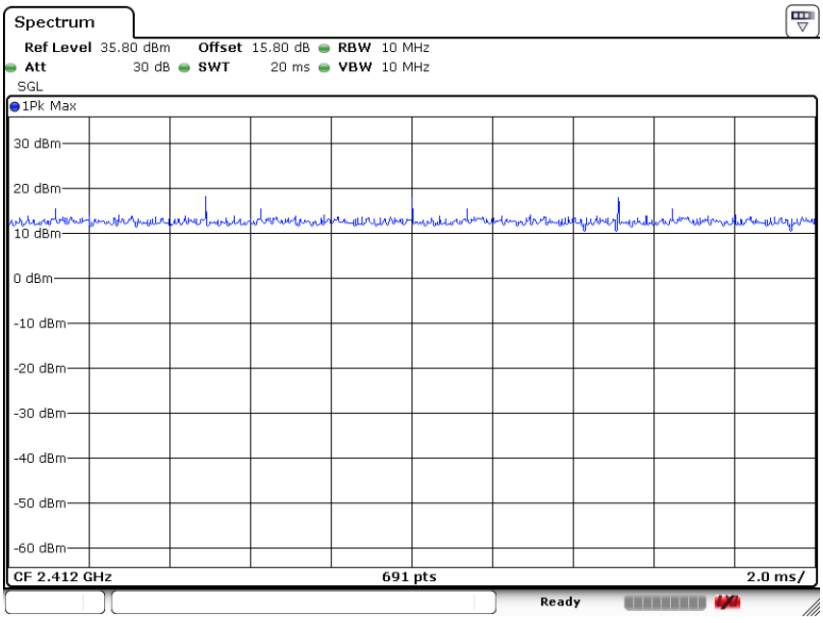

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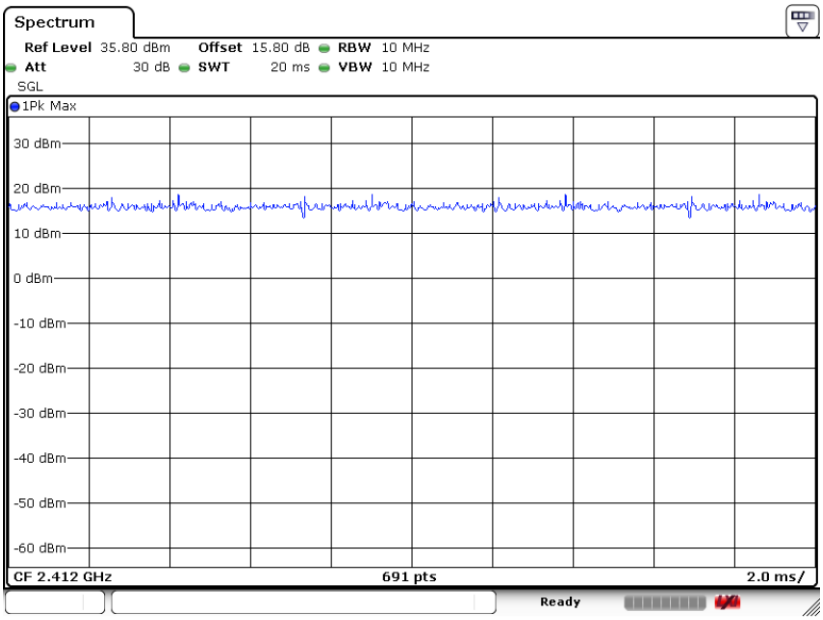

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