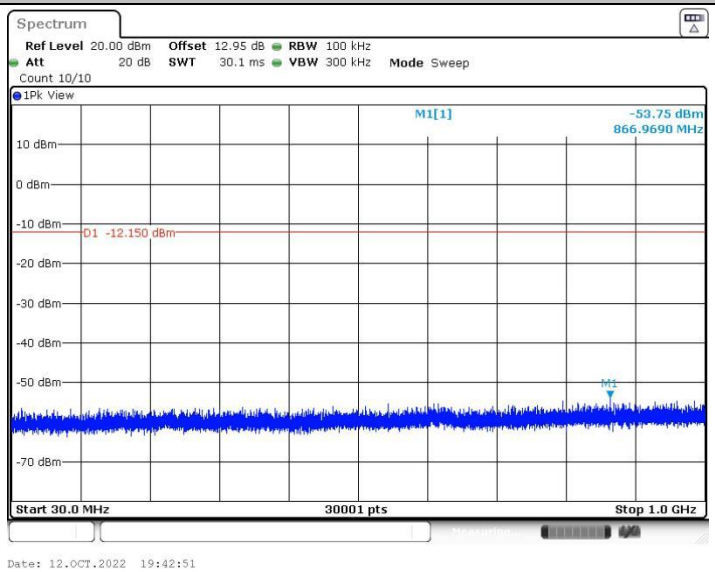
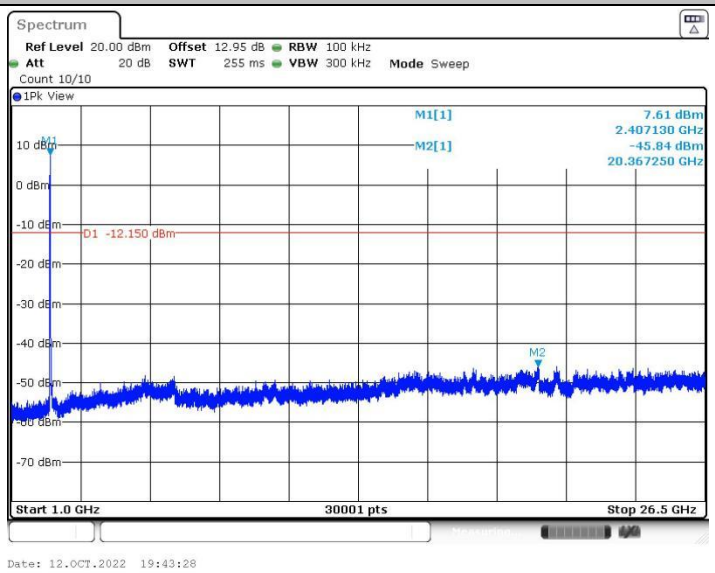
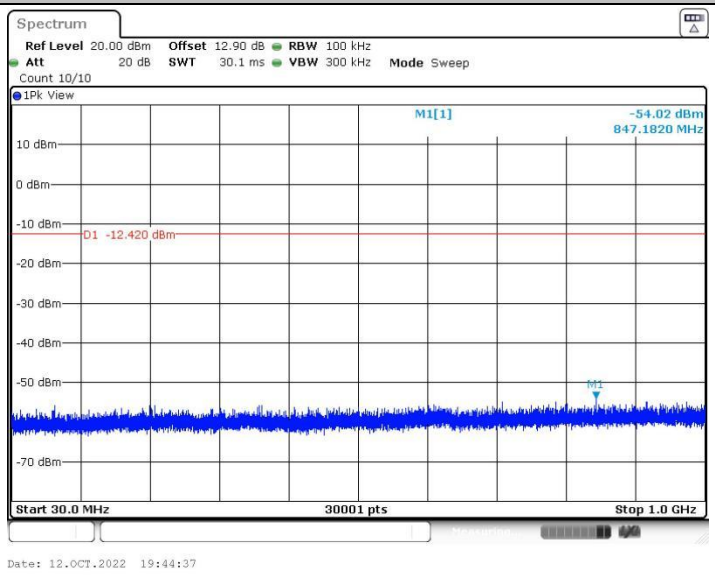
11G-CDD_Ant1_2412_30~1000


11G-CDD_Ant1_2412_1000~26500


11G-CDD_Ant2_2412_30~1000


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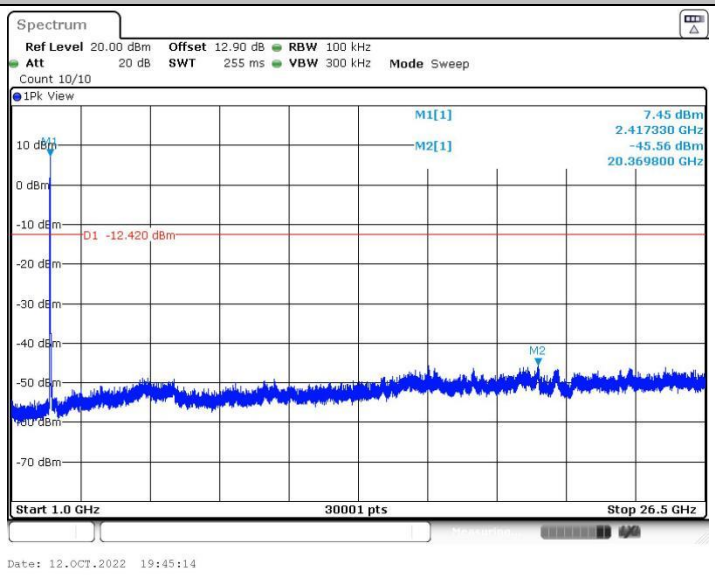
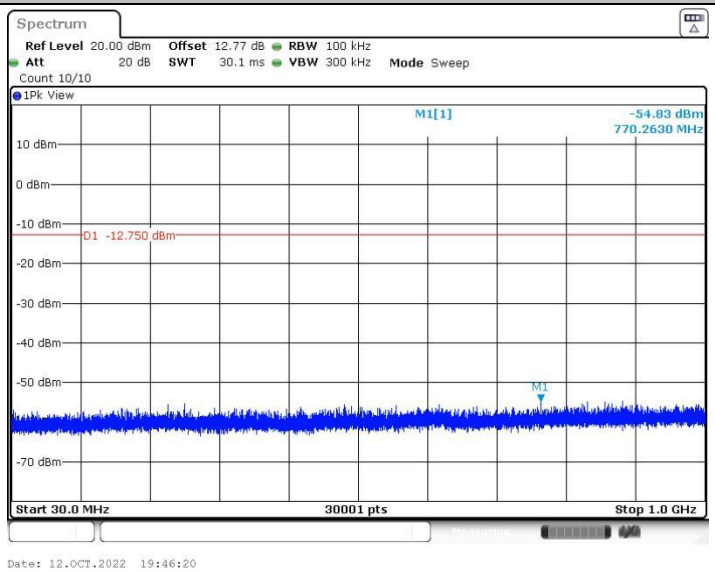


11G-CDD_Ant1_2437_30~1000


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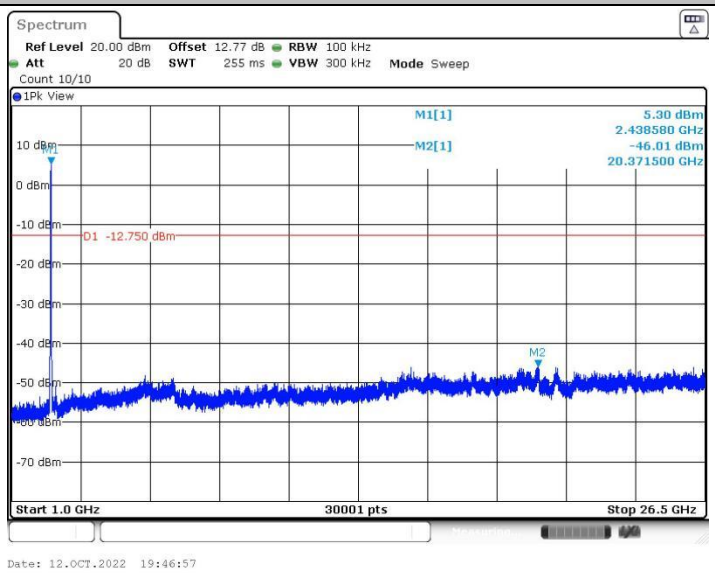

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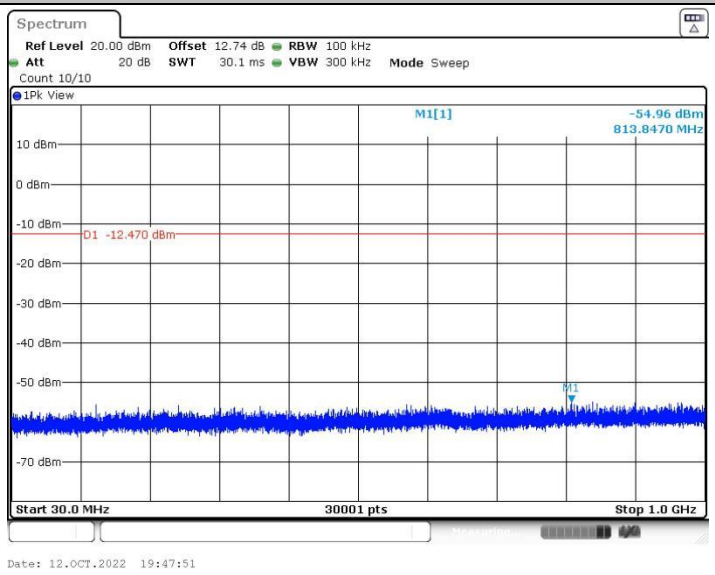
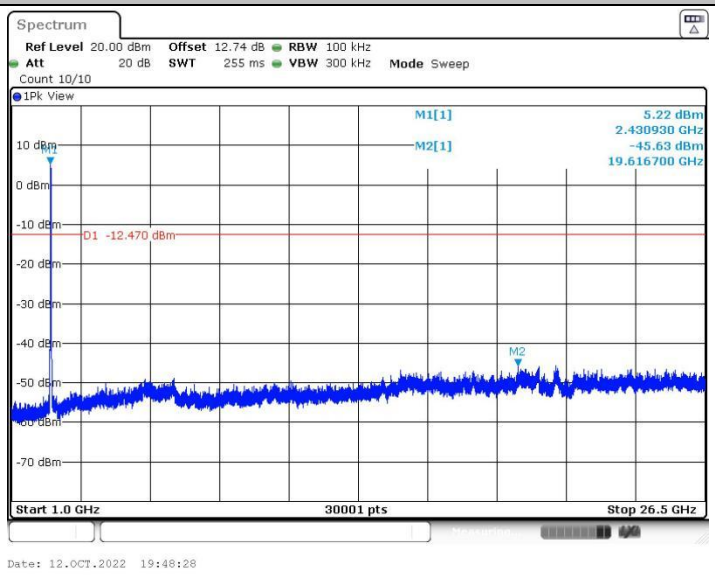
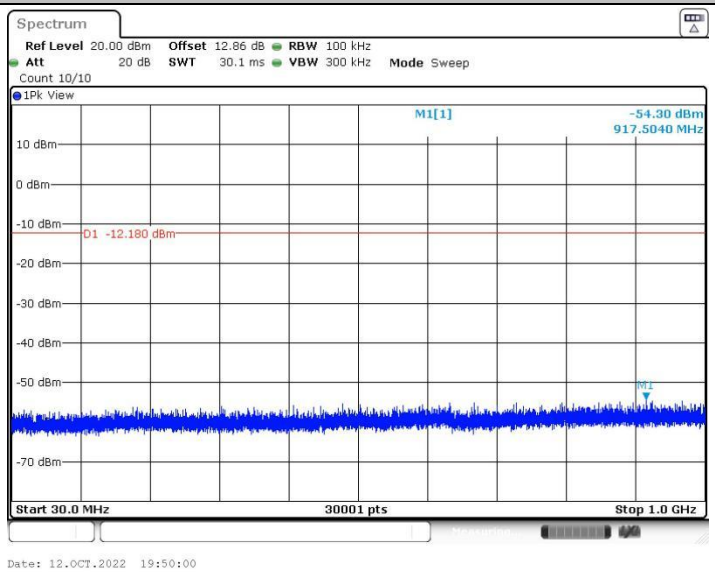
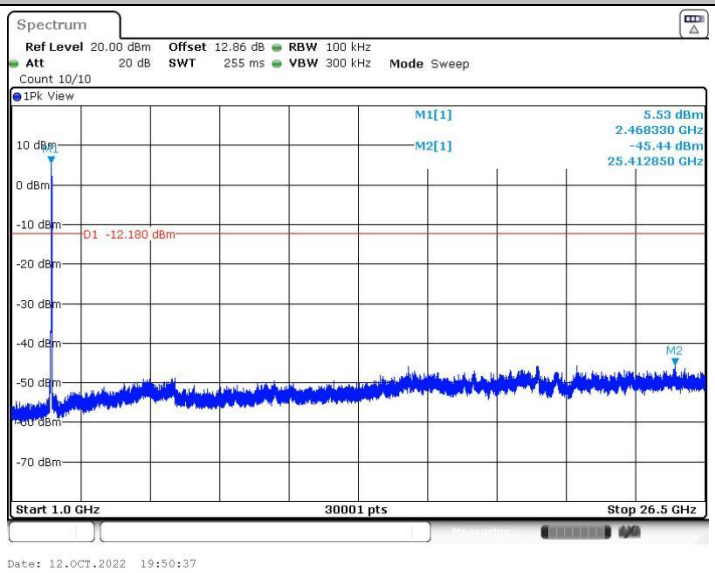


11G-CDD_Ant2_2437_1000~26500


11G-CDD_Ant1_2462_30~1000


11G-CDD_Ant1_2462_1000~26500


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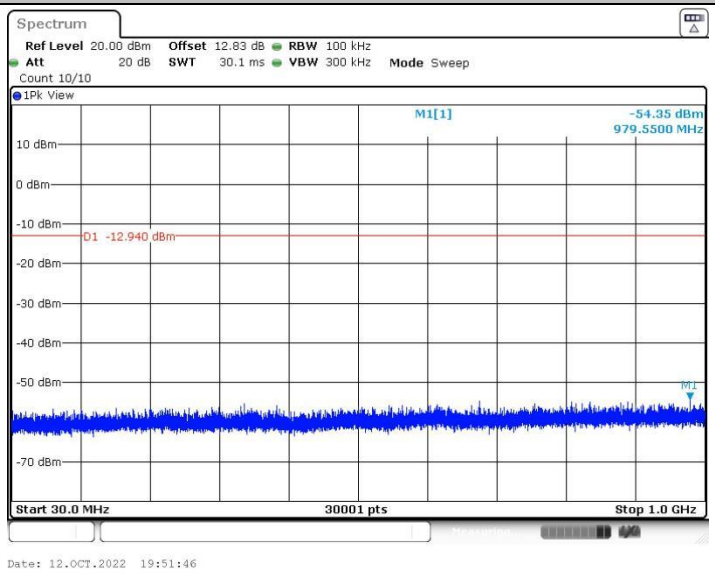

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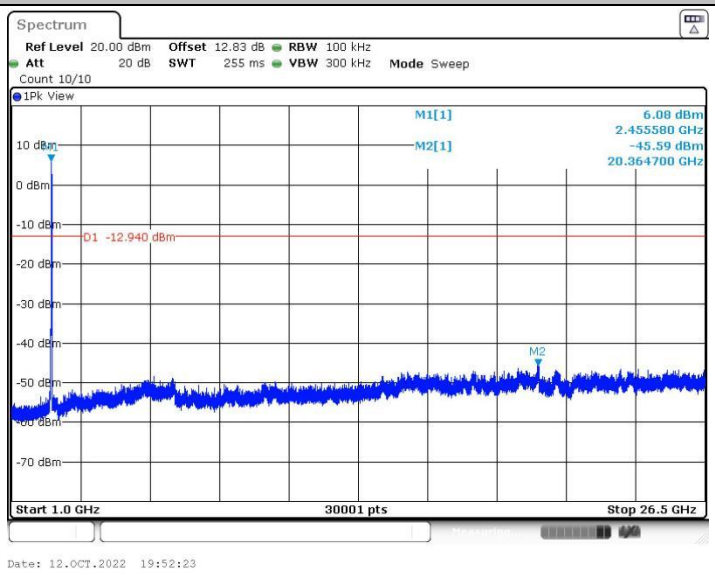
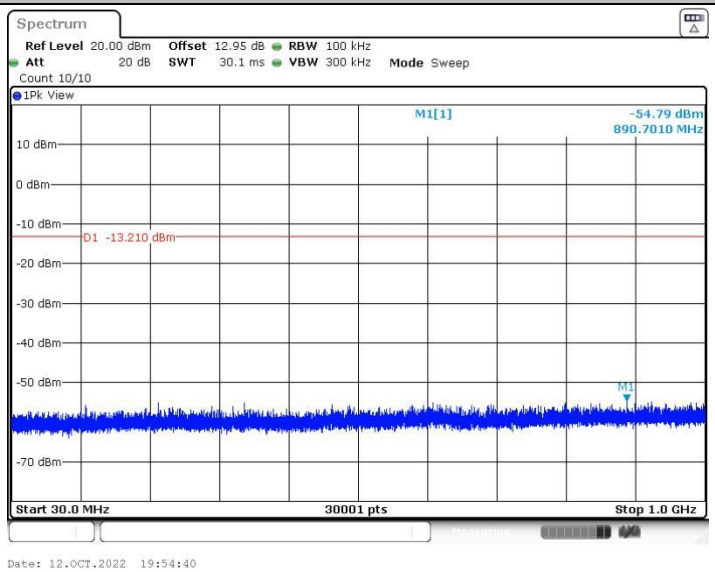
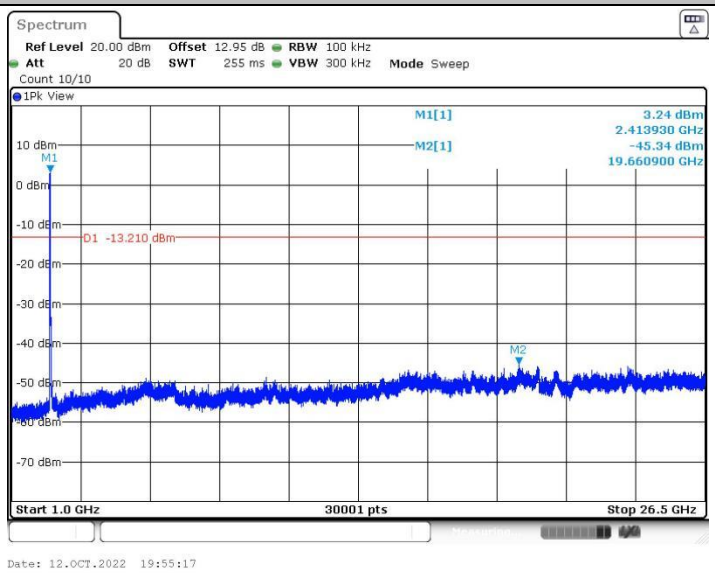
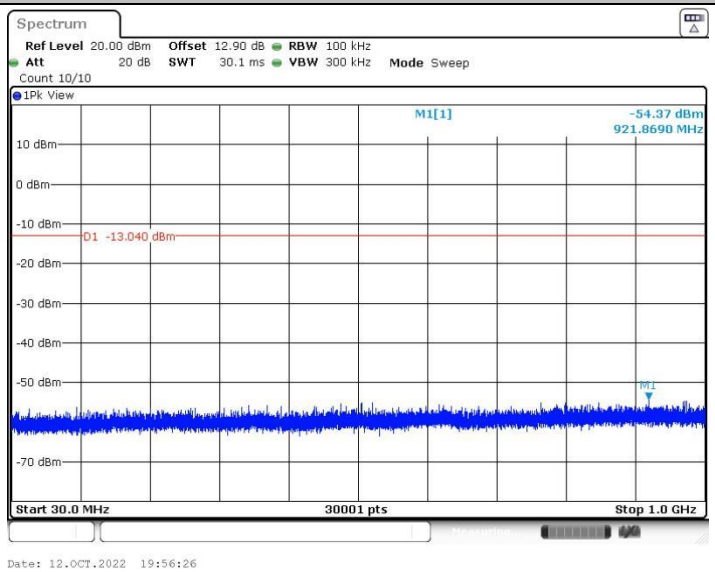
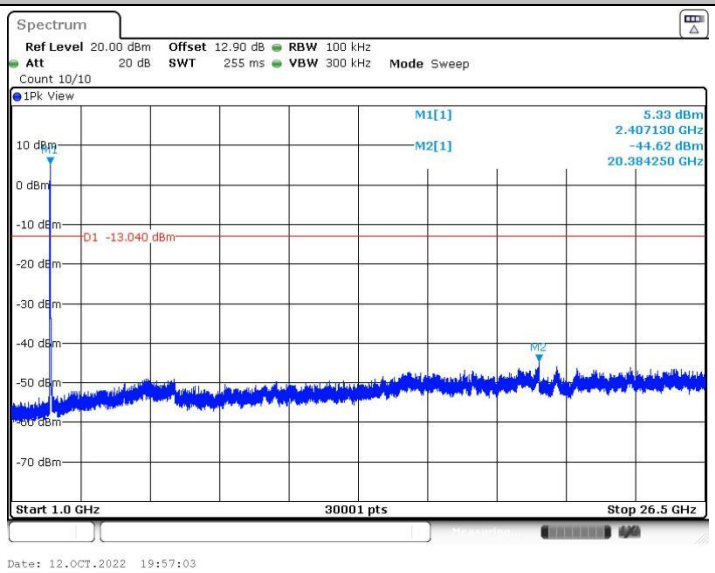
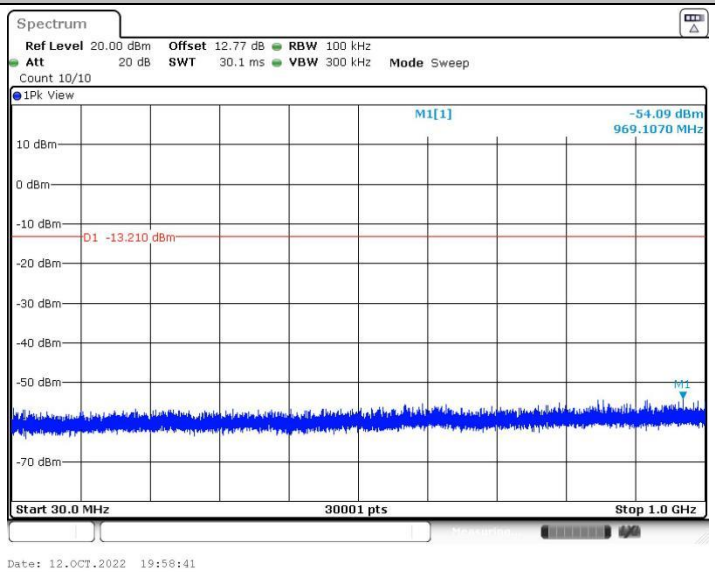


11BE20MIMO_Ant1_2412_30~1000


11BE20MIMO_Ant1_2412_1000~26500


11BE20MIMO_Ant2_2412_30~1000


11BE20MIMO_Ant2_2412_1000~26500


11BE20MIMO_Ant1_2437_30~1000


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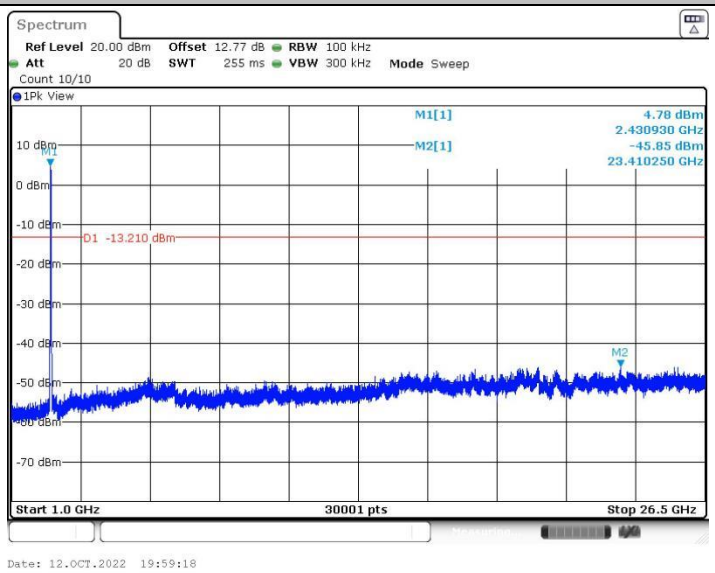
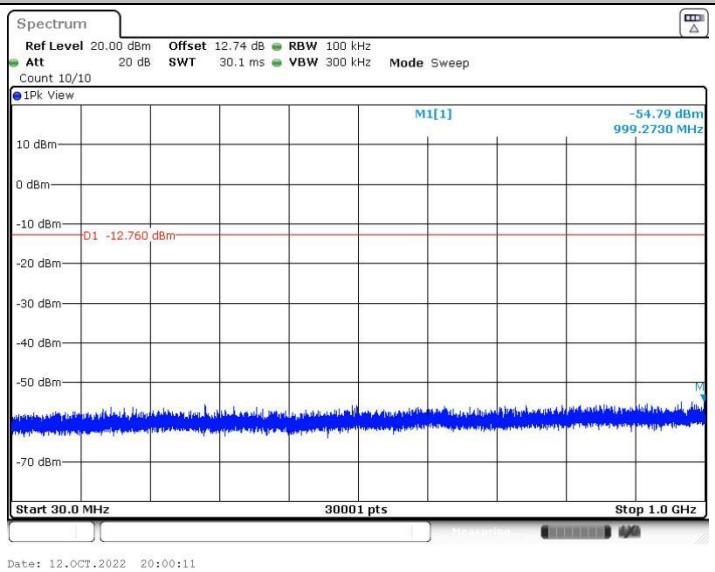


11BE20MIMO_Ant2_2437_30~1000


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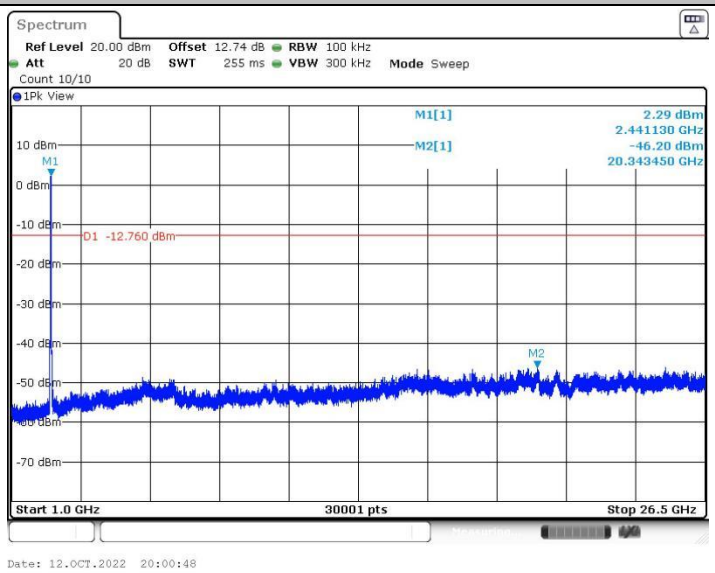
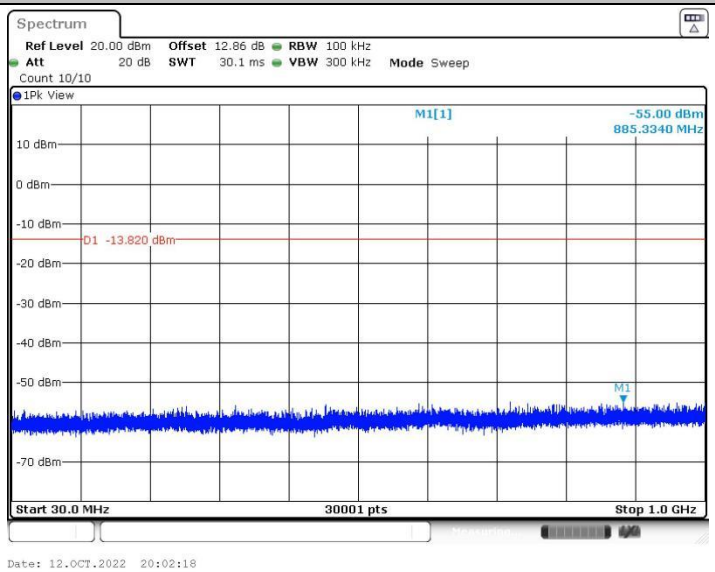


11BE20MIMO_Ant1_2462_30~1000


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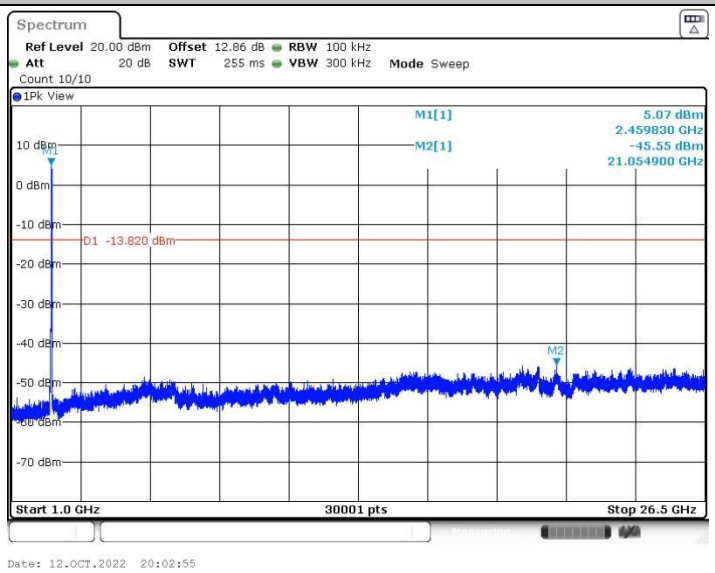

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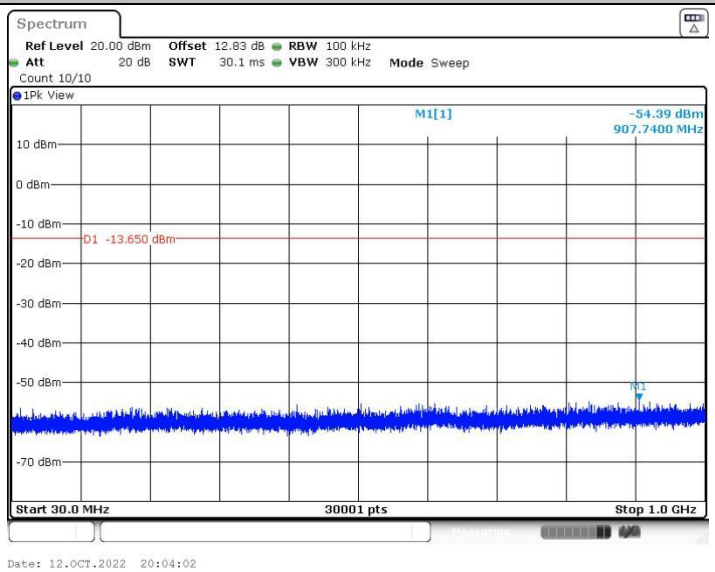
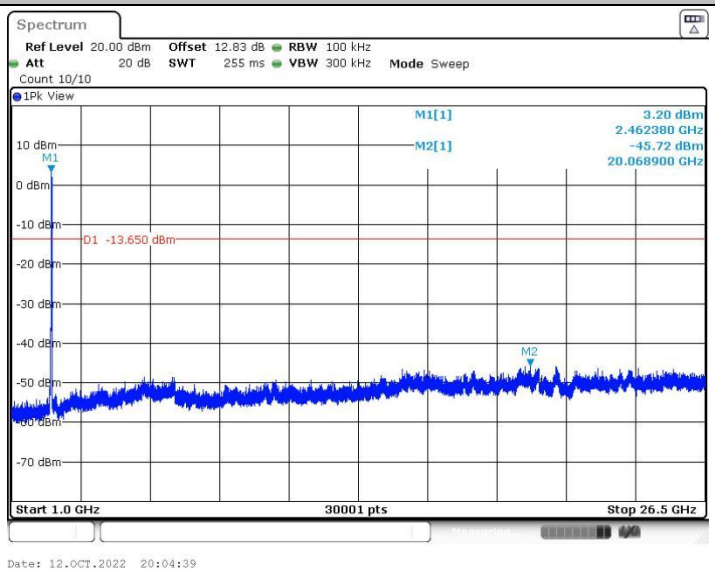
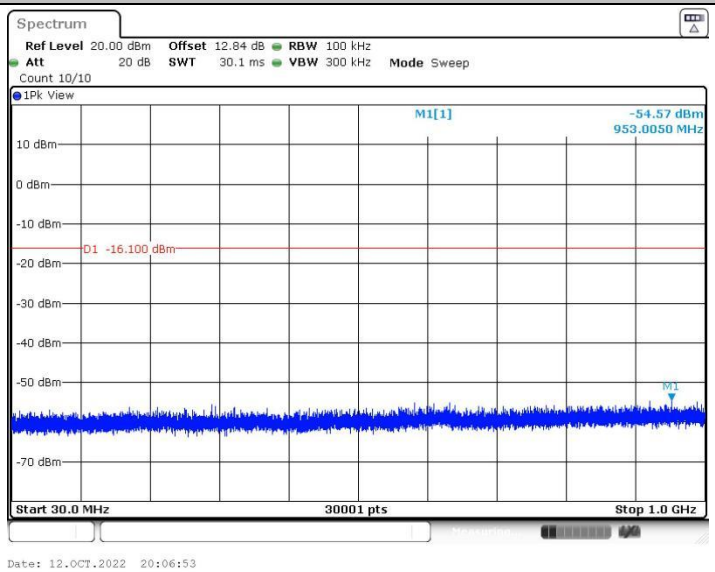
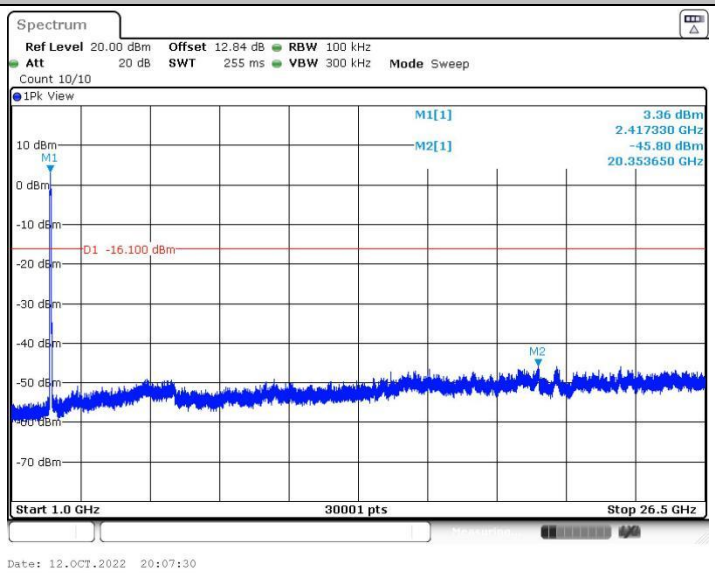


11BE20MIMO_Ant2_2462_1000~26500


11BE40MIMO_Ant1_2422_30~1000


11BE40MIMO_Ant1_2422_1000~26500


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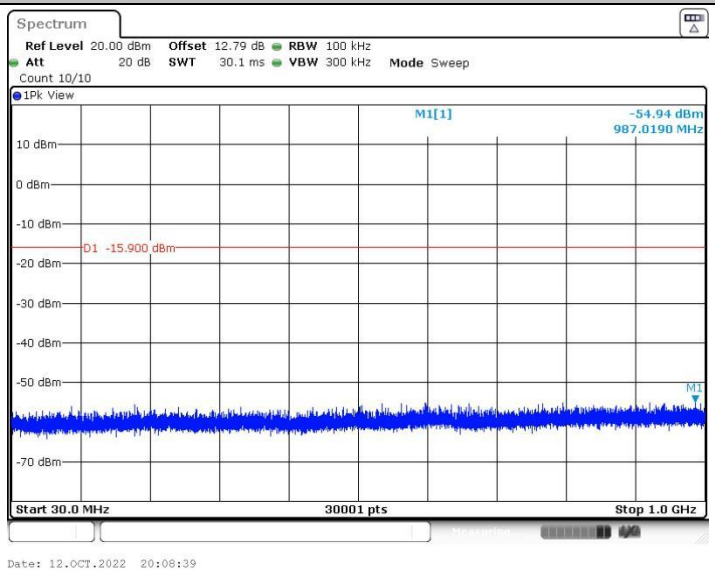
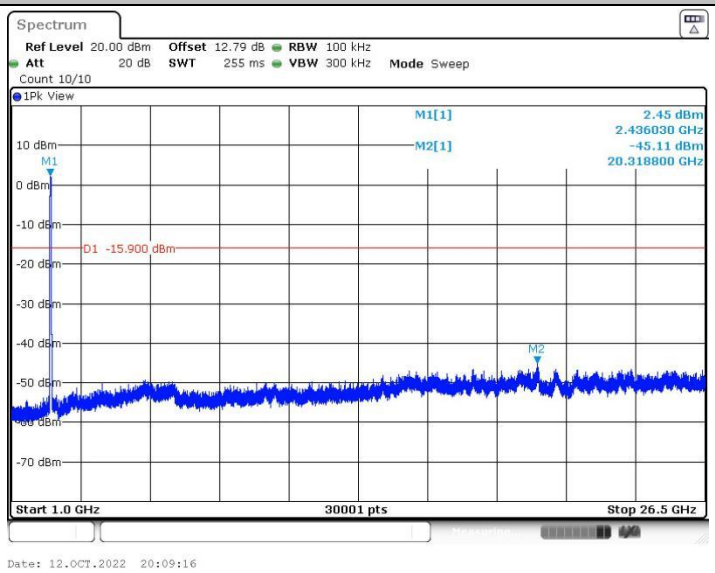
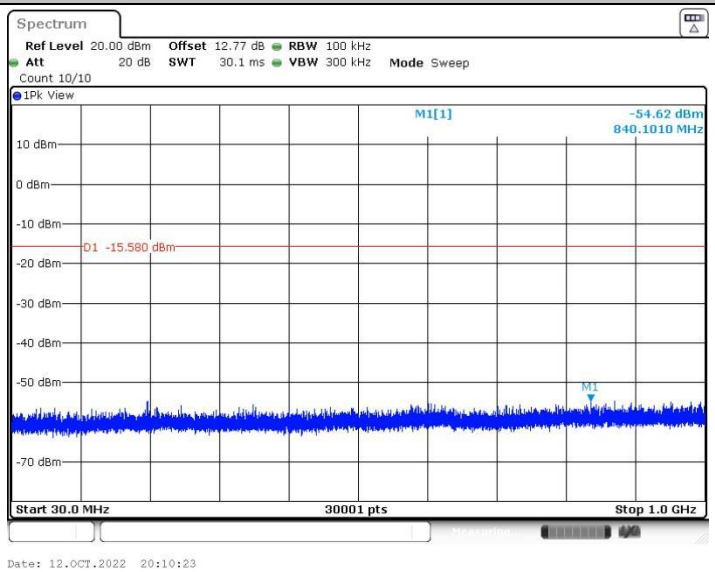


11BE40MIMO_Ant2_2422_1000~26500


11BE40MIMO_Ant1_2437_30~1000


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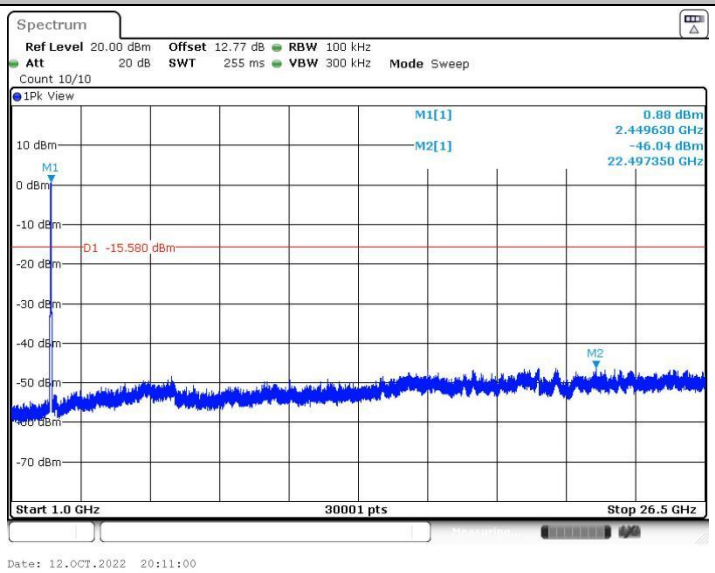
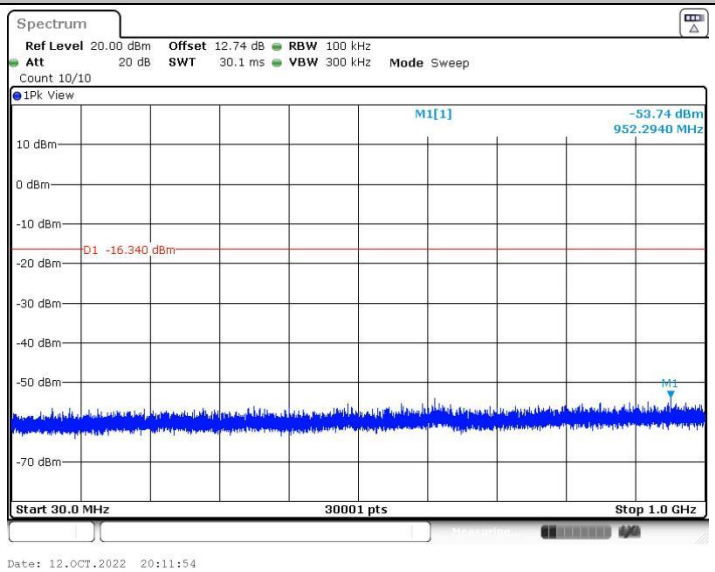
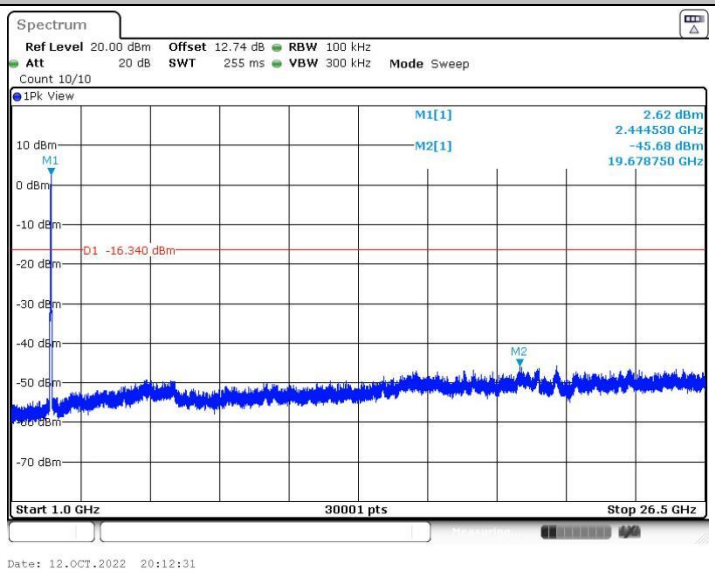
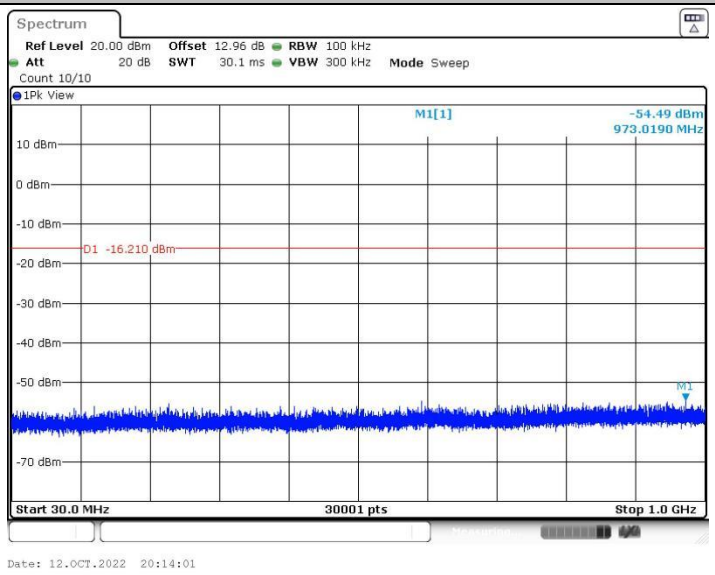
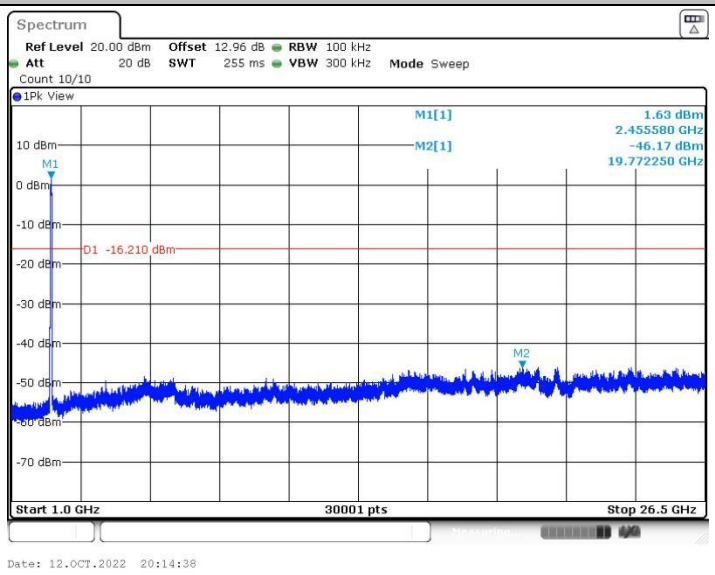


11BE40MIMO_Ant2_2437_30~1000


11BE40MIMO_Ant2_2437_1000~26500


11BE40MIMO_Ant1_2452_30~1000


11BE40MIMO_Ant1_2452_1000~26500


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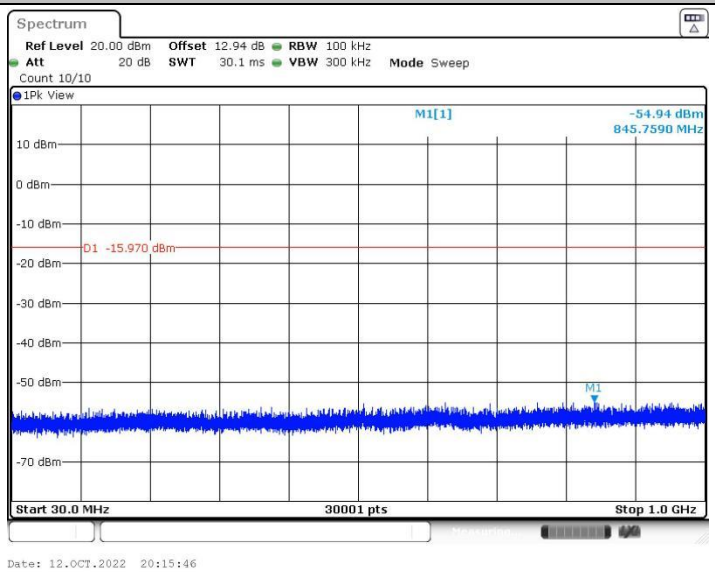
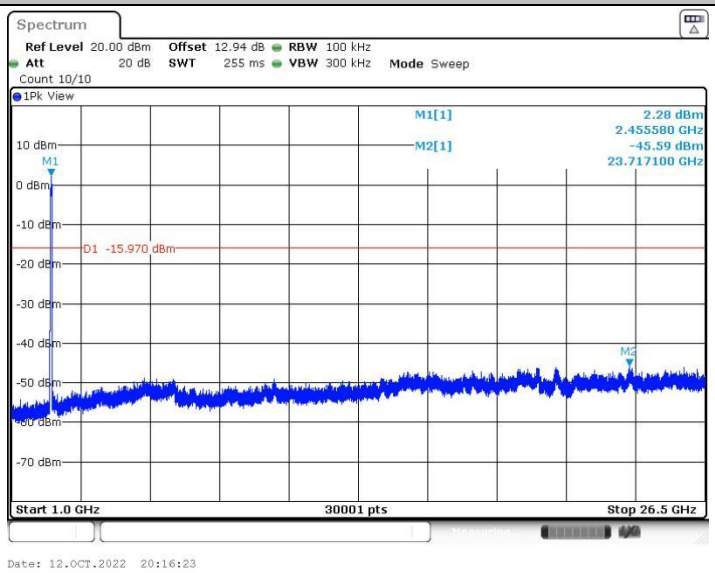


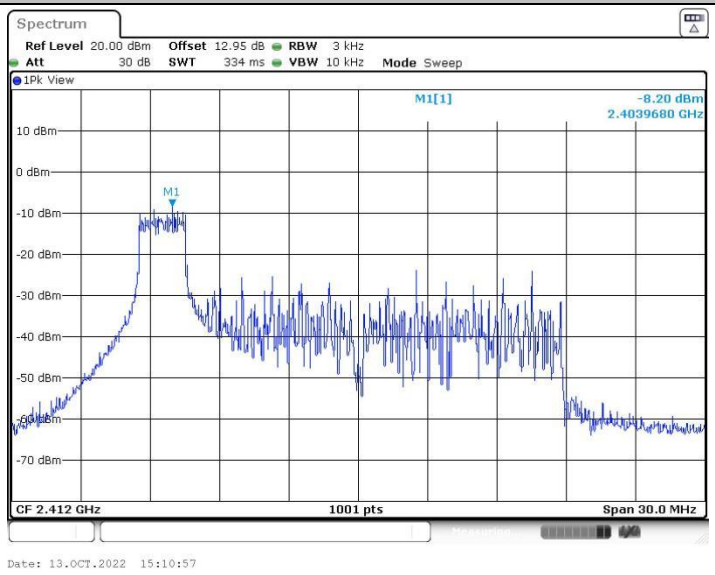
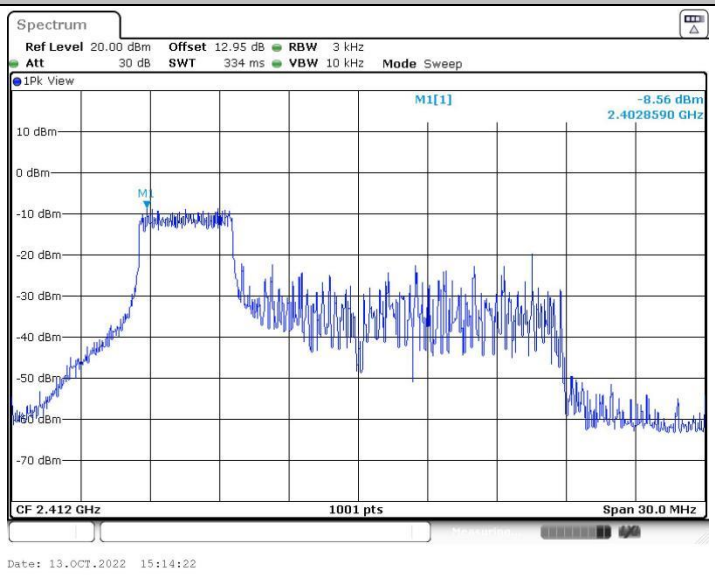
11BE40MIMO_Ant2_2452_1000~26500


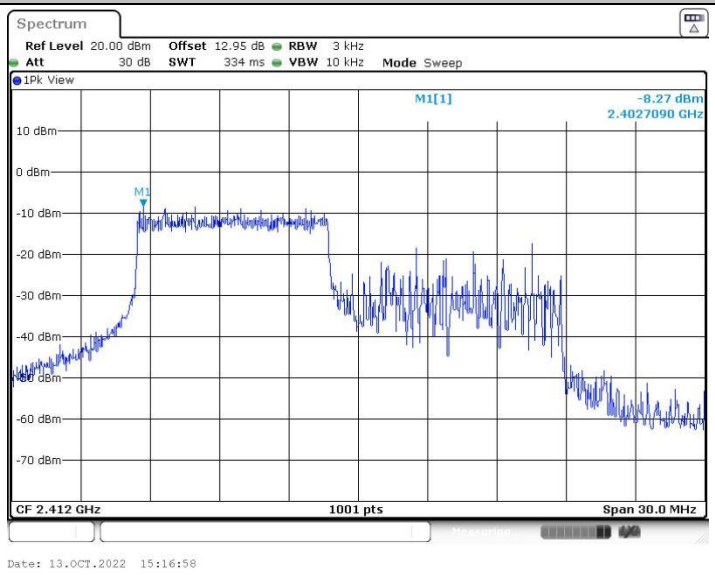
Power spectral density for Single RU

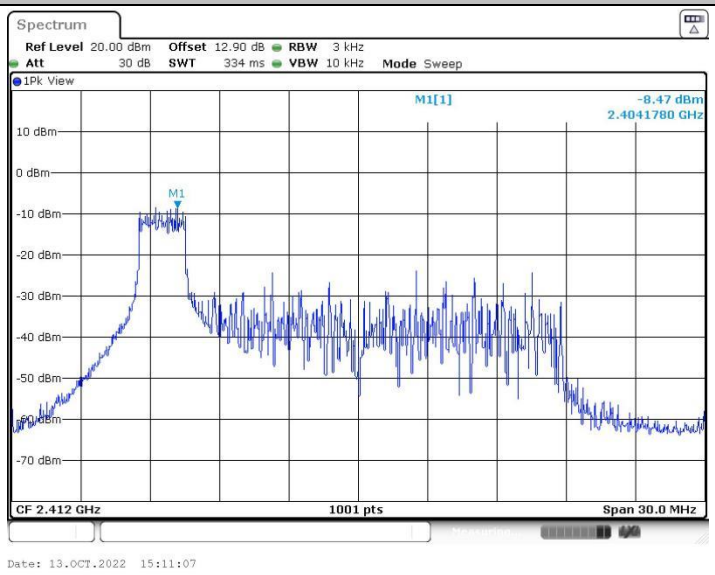
Test Result

TestMode	Antenna	Freq(MHz)	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11BE20MIMO	Ant1	2412	26Tone	RU0	-8.2	≤8.00	PASS
			52Tone	RU37	-8.56	≤8.00	PASS
			106Tone	RU53	-8.27	≤8.00	PASS
	Ant2	2412	26Tone	RU0	-8.47	≤8.00	PASS
			52Tone	RU37	-8.01	≤8.00	PASS
			106Tone	RU53	-8.27	≤8.00	PASS
	total	2412	26Tone	RU0	-5.32	≤8.00	PASS
			52Tone	RU37	-5.27	≤8.00	PASS
			106Tone	RU53	-5.26	≤8.00	PASS
	Ant1	2462	26Tone	RU8	-9.21	≤8.00	PASS
			52Tone	RU40	-9.2	≤8.00	PASS
			106Tone	RU54	-9.55	≤8.00	PASS
	Ant2	2462	26Tone	RU8	-9.44	≤8.00	PASS
			52Tone	RU40	-9.92	≤8.00	PASS
			106Tone	RU54	-9.71	≤8.00	PASS
	total	2462	26Tone	RU8	-6.31	≤8.00	PASS
			52Tone	RU40	-6.53	≤8.00	PASS
			106Tone	RU54	-6.62	≤8.00	PASS

Test Graphs

11BE20MIMO_Ant1_2412_26Tone_RU0

11BE20MIMO_Ant1_2412_52Tone_RU37


11BE20MIMO_Ant1_2412_106Tone_RU53


11BE20MIMO_Ant2_2412_26Tone_RU0


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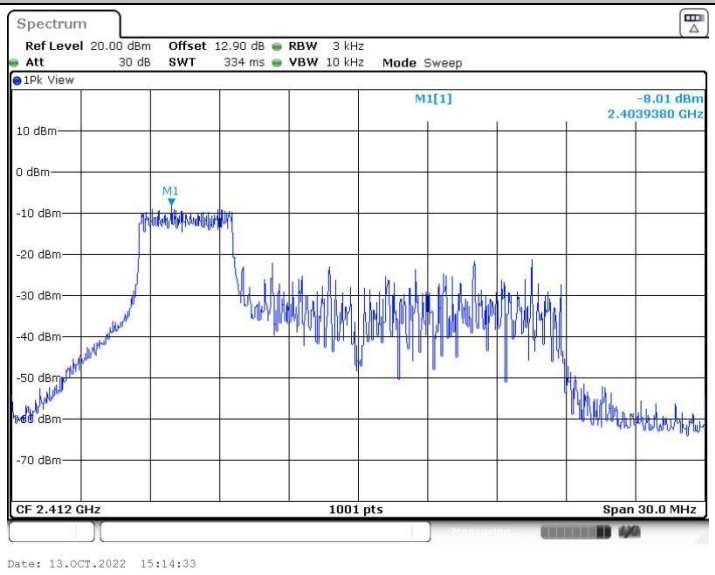

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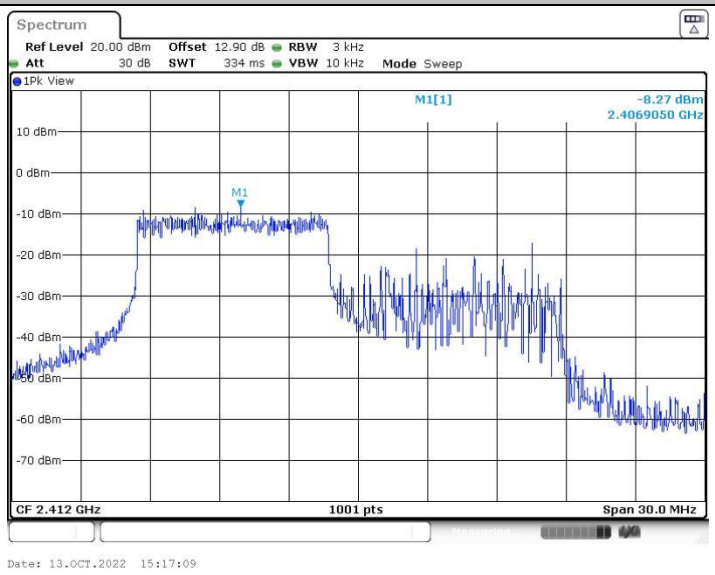
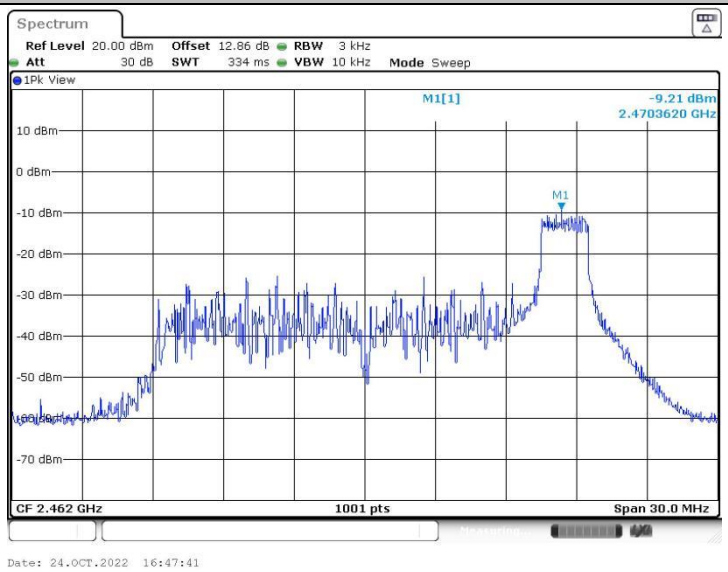


11BE20MIMO_Ant1_2462_26Tone_RU8


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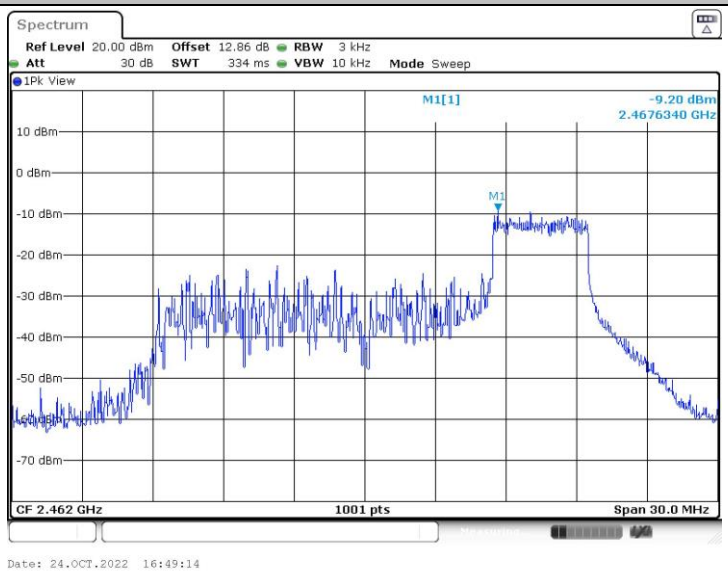
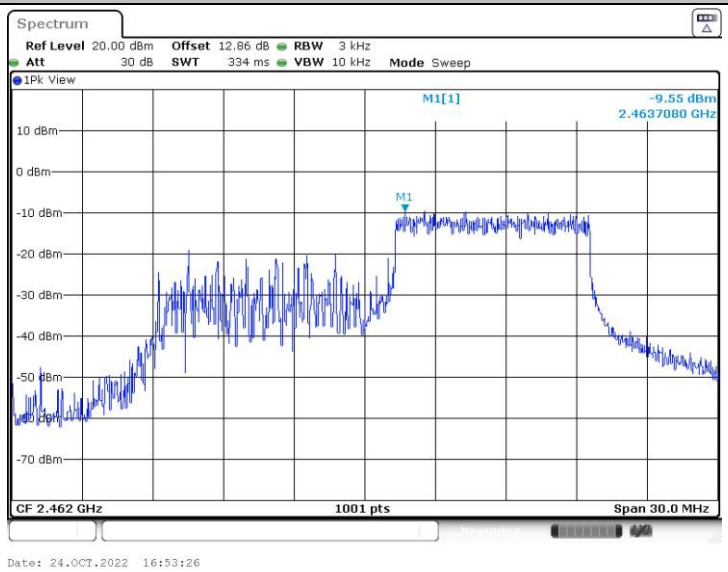
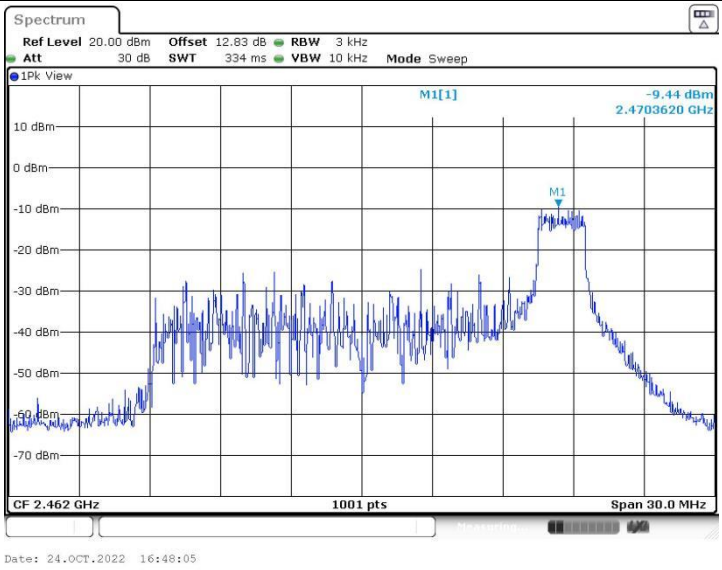


11BE20MIMO_Ant1_2462_106Tone_RU54


11BE20MIMO_Ant2_2462_26Tone_RU8


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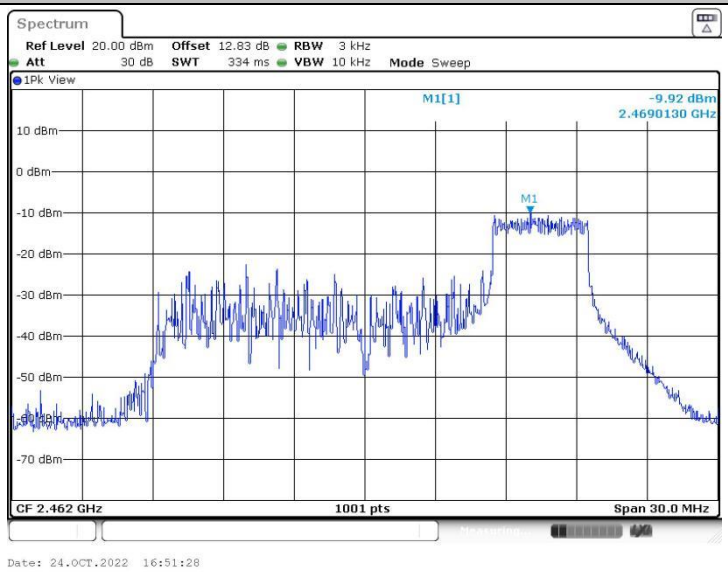

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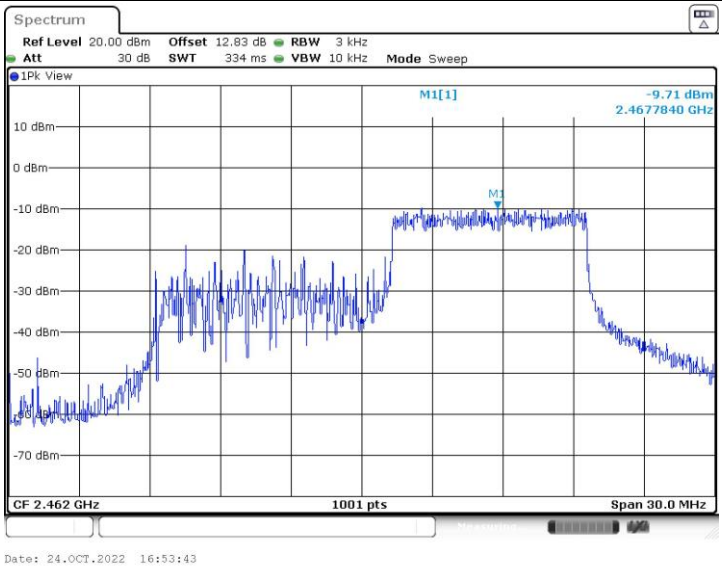


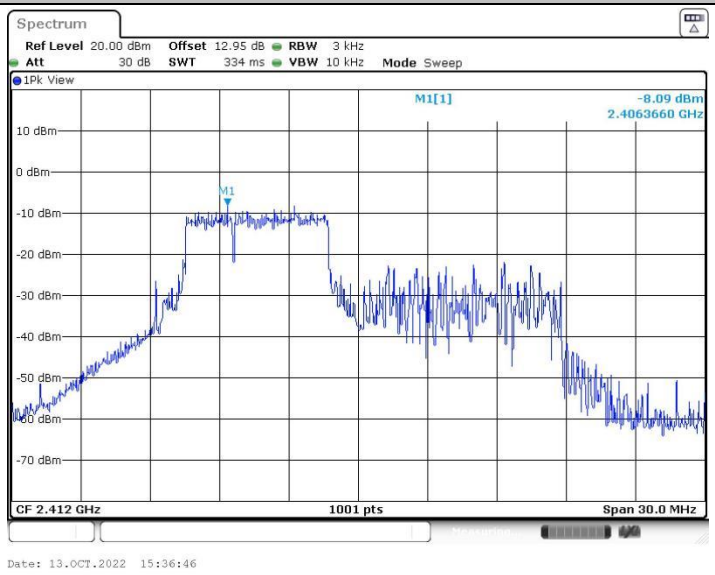
Power spectral density for Small RU

Test Result

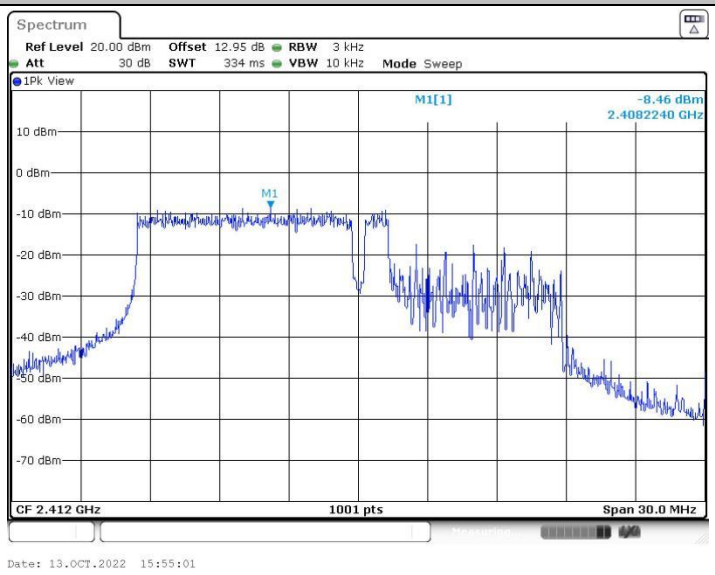
TestMode	Antenna	Freq(MHz)	Small RU	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11BE20 MIMO	Ant1	2412	52Tone+26Tone	RU37+RU2	-8.09	≤8.00	PASS
			106Tone+26Tone	RU53+RU4	-8.46	≤8.00	PASS
	Ant2	2412	52Tone+26Tone	RU37+RU2	-8.52	≤8.00	PASS
			106Tone+26Tone	RU53+RU4	-8.93	≤8.00	PASS
	total	2412	52Tone+26Tone	RU37+RU2	-5.29	≤8.00	PASS
			106Tone+26Tone	RU53+RU4	-5.68	≤8.00	PASS
	Ant1	2462	52Tone+26Tone	RU40+RU6	-10.07	≤8.00	PASS
			106Tone+26Tone	RU54+RU4	-9.76	≤8.00	PASS
	Ant2	2462	52Tone+26Tone	RU40+RU6	-9.90	≤8.00	PASS
			106Tone+26Tone	RU54+RU4	-9.98	≤8.00	PASS
	total	2462	52Tone+26Tone	RU40+RU6	-6.97	≤8.00	PASS
			106Tone+26Tone	RU54+RU4	-6.86	≤8.00	PASS

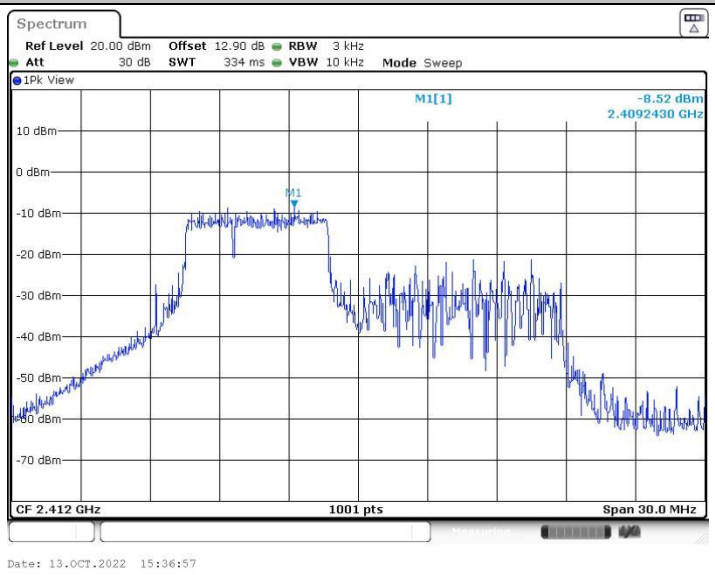
Test Graphs

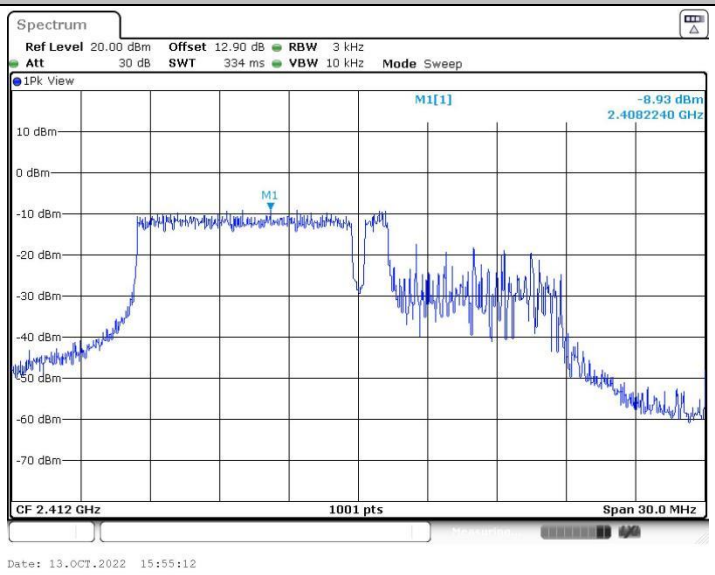
11BE20MIMO_Ant1_2412_52Tone+26Tone_RU37+RU2

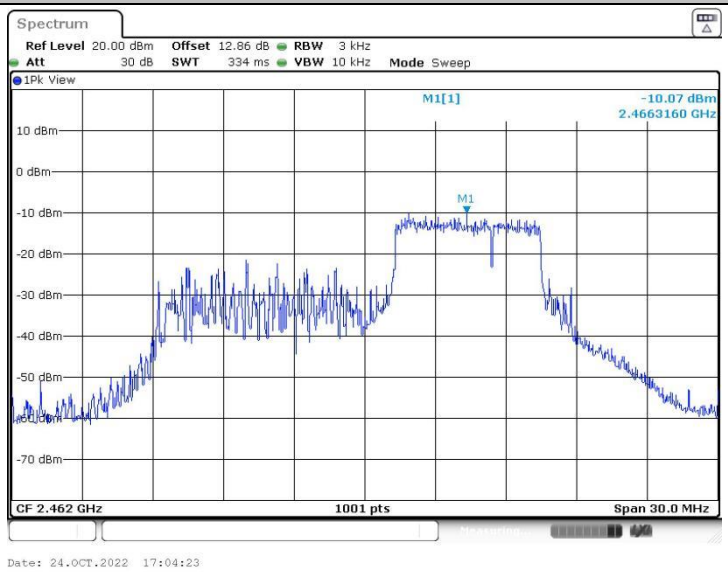


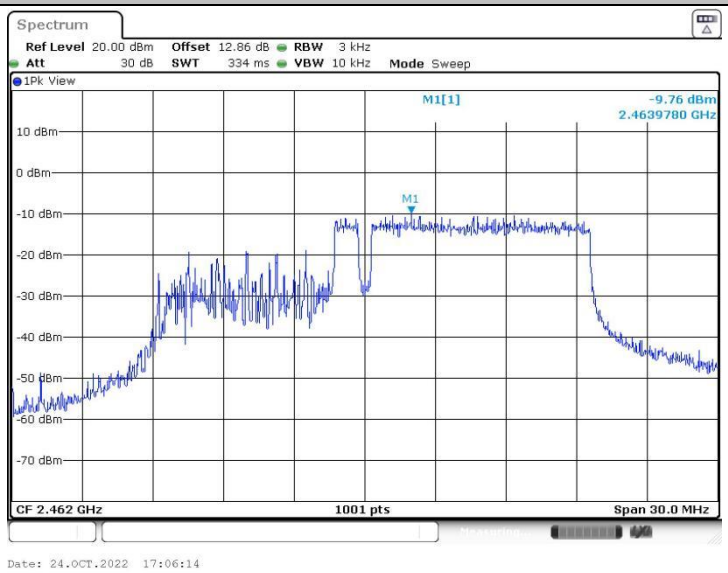
11BE20MIMO_Ant1_2412_106Tone+26Tone_RU53+RU4

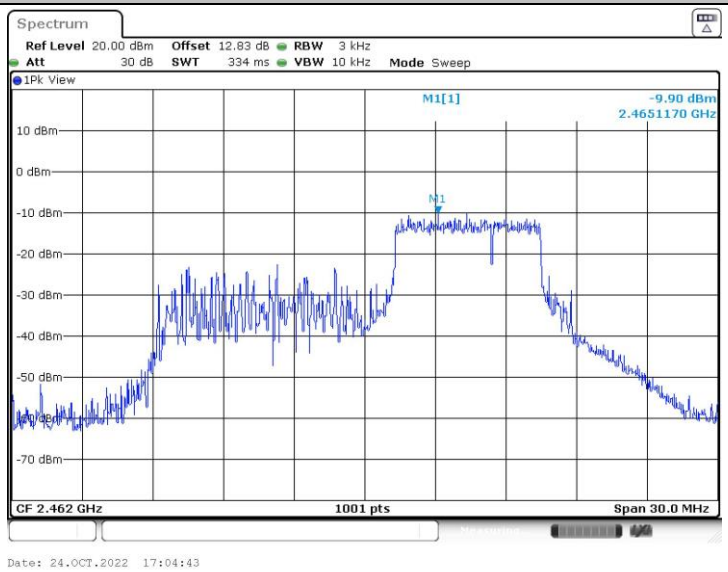


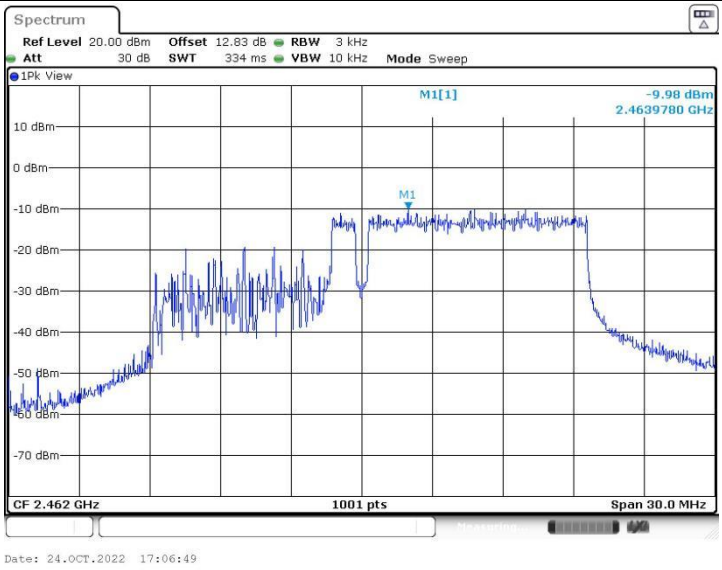
11BE20MIMO_Ant2_2412_52Tone+26Tone_RU37+RU2


11BE20MIMO_Ant2_2412_106Tone+26Tone_RU53+RU4


11BE20MIMO_Ant1_2462_52Tone+26Tone_RU40+RU6


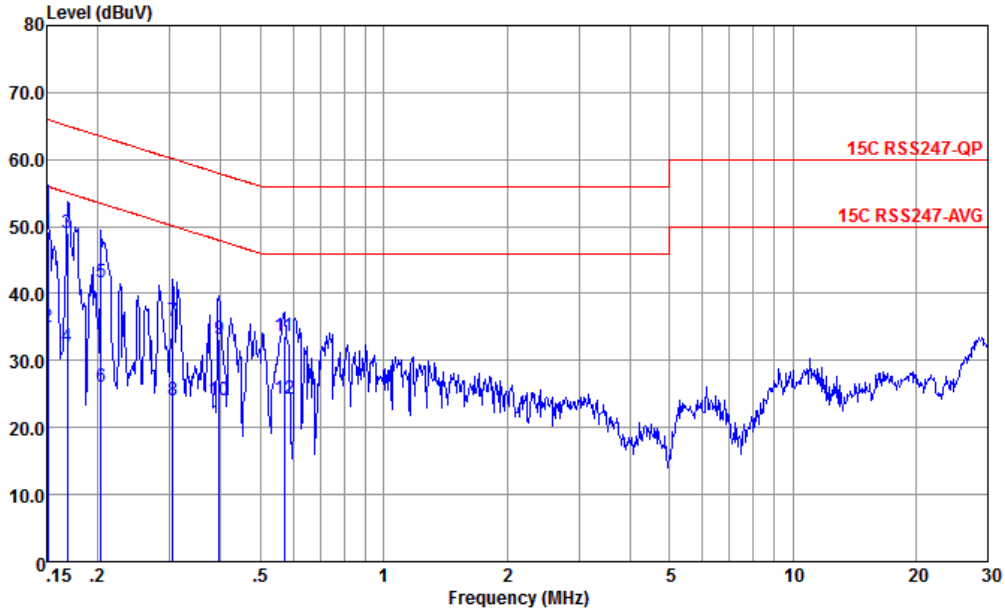
11BE20MIMO_Ant1_2462_106Tone+26Tone_RU54+RU4


11BE20MIMO_Ant2_2462_52Tone+26Tone_RU40+RU6


11BE20MIMO_Ant2_2462_106Tone+26Tone_RU54+RU4


Appendix B. AC Conducted Emission Test Results

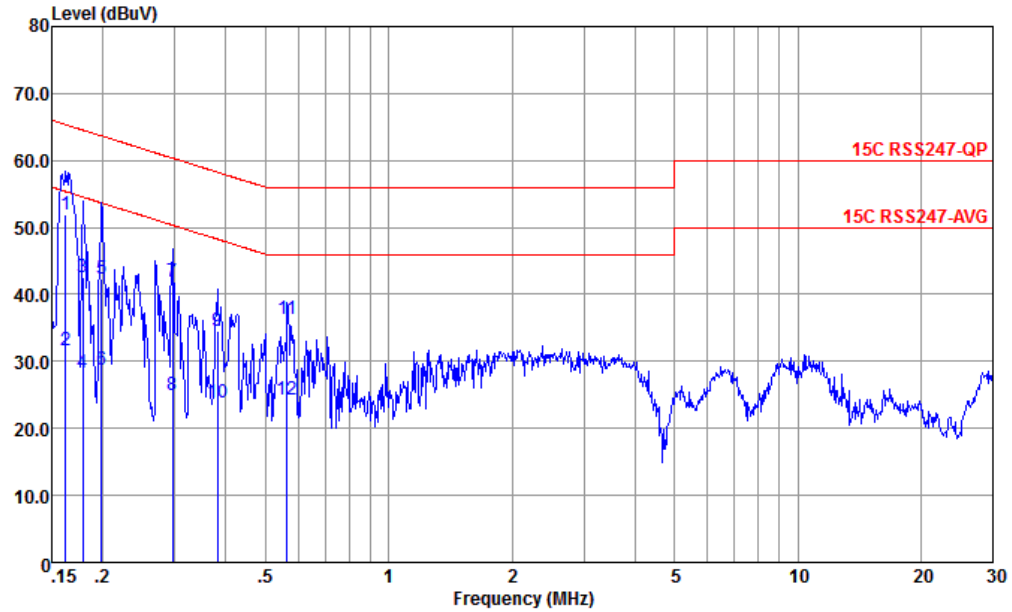
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-LINE LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.151	49.30	-16.66	65.96	38.80	0.07	10.43	QP
2		0.151	35.00	-20.96	55.96	24.50	0.07	10.43	Average
3	*	0.169	48.98	-16.05	65.03	38.50	0.05	10.43	QP
4		0.169	32.08	-22.95	55.03	21.60	0.05	10.43	Average
5		0.204	41.64	-21.81	63.45	31.20	0.02	10.42	QP
6		0.204	26.04	-27.41	53.45	15.60	0.02	10.42	Average
7		0.305	35.90	-24.20	60.10	25.49	0.06	10.35	QP
8		0.305	24.00	-26.10	50.10	13.59	0.06	10.35	Average
9		0.396	33.11	-24.84	57.95	22.80	0.01	10.30	QP
10		0.396	24.11	-23.84	47.95	13.80	0.01	10.30	Average
11		0.570	33.64	-22.36	56.00	23.50	-0.05	10.19	QP
12		0.570	24.34	-21.66	46.00	14.20	-0.05	10.19	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 : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.162	51.96	-13.38	65.34	41.49	0.04	10.43	QP
2		0.162	31.66	-23.68	55.34	21.19	0.04	10.43	Average
3		0.179	42.67	-21.88	64.55	32.21	0.04	10.42	QP
4		0.179	28.37	-26.18	54.55	17.91	0.04	10.42	Average
5		0.199	42.27	-21.40	63.67	31.80	0.05	10.42	QP
6		0.199	28.67	-25.00	53.67	18.20	0.05	10.42	Average
7		0.296	41.81	-18.56	60.37	31.51	-0.05	10.35	QP
8		0.296	24.91	-25.46	50.37	14.61	-0.05	10.35	Average
9		0.381	34.44	-23.81	58.25	24.19	-0.06	10.31	QP
10		0.381	23.84	-24.41	48.25	13.59	-0.06	10.31	Average
11		0.564	36.31	-19.69	56.00	26.20	-0.08	10.19	QP
12		0.564	24.21	-21.79	46.00	14.10	-0.08	10.19	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

Test Engineer :	Carry Xu	**Temperature :**	22~23°C
		Relative Humidity :	41~42%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

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+18		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.69	52.52	-21.48	74	49.53	32.4	7.1	36.51	371	197	P	H
		2387.61	45.9	-8.1	54	42.91	32.4	7.1	36.51	371	197	A	H
	*	2412	109.47	-	-	106.56	32.39	7.13	36.61	371	197	P	H
	*	2412	107.05	-	-	104.14	32.39	7.13	36.61	371	197	A	H
		2388.13	51.67	-22.33	74	48.68	32.4	7.1	36.51	381	111	P	V
		2387.87	44.29	-9.71	54	41.3	32.4	7.1	36.51	381	111	A	V
	*	2412	106.01	-	-	103.1	32.39	7.13	36.61	381	111	P	V
	*	2412	103.55	-	-	100.64	32.39	7.13	36.61	381	111	A	V
802.11b CH 11 2462MHz	*	2462	108.52	-	-	105.86	32.36	7.22	36.92	358	195	P	H
	*	2462	106.13	-	-	103.47	32.36	7.22	36.92	358	195	A	H
		2483.5	50.68	-23.32	74	48.11	32.34	7.25	37.02	358	195	P	H
		2483.5	41.79	-12.21	54	39.22	32.34	7.25	37.02	358	195	A	H
	*	2462	106.08	-	-	103.42	32.36	7.22	36.92	323	85	P	V
	*	2462	103.76	-	-	101.1	32.36	7.22	36.92	323	85	A	V
		2486.14	50.41	-23.59	74	47.84	32.34	7.25	37.02	323	85	P	V
		2486.68	41.6	-12.4	54	39.03	32.34	7.25	37.02	323	85	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. 15+18	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)
802.11b CH 01 2412MHz		4830	40.74	-33.26	74	61.75	34	10.25	65.26	300	0	P	H
		4830	40.03	-33.97	74	61.04	34	10.25	65.26	100	0	P	V
802.11b CH 06 2437MHz		4875	40.99	-33.01	74	61.98	34	10.29	65.28	300	0	P	H
		7305	42.15	-31.85	74	60.35	35.76	12.72	66.68	300	0	P	H
		4875	39.83	-34.17	74	60.82	34	10.29	65.28	100	0	P	V
		7305	43.72	-30.28	74	61.92	35.76	12.72	66.68	100	0	P	V
802.11b CH 11 2462MHz		4920	41.66	-32.34	74	62.62	34	10.34	65.3	300	0	P	H
		7380	41.73	-32.27	74	60.13	35.78	12.73	66.91	300	0	P	H
		4920	41.05	-32.95	74	62.01	34	10.34	65.3	100	0	P	V
		7380	42.25	-31.75	74	60.65	35.78	12.73	66.91	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 802.11g (Band Edge @ 3m)

WIFI Ant. 15+18	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)
802.11g CH 01 2412MHz		2389.95	60.79	-13.21	74	54.72	32.3	6.61	32.84	100	95	P	H
		2389.95	48.92	-5.08	54	42.85	32.3	6.61	32.84	100	95	A	H
	*	2420	109.19	-	-	103	32.3	6.66	32.77	100	95	P	H
	*	2420	101.2	-	-	95.01	32.3	6.66	32.77	100	95	A	H
		2389.56	55.19	-18.81	74	49.16	32.3	6.61	32.88	388	118	P	V
		2389.95	45.16	-8.84	54	39.09	32.3	6.61	32.84	388	118	A	V
	*	2408	105.79	-	-	99.7	32.3	6.63	32.84	388	118	P	V
	*	2406	98.42	-	-	92.33	32.3	6.63	32.84	388	118	A	V
802.11g CH 11 2462MHz	*	2456	108.17	-	-	105.51	32.36	7.22	36.92	101	151	P	H
	*	2456	100.99	-	-	98.33	32.36	7.22	36.92	101	151	A	H
		2484.64	65.51	-8.49	74	62.94	32.34	7.25	37.02	101	151	P	H
		2484.52	50.9	-3.1	54	48.33	32.34	7.25	37.02	101	151	A	H
	*	2456	106.16	-	-	103.5	32.36	7.22	36.92	332	69	P	V
	*	2456	98.31	-	-	95.65	32.36	7.22	36.92	332	69	A	V
		2484.64	61.9	-12.1	74	59.33	32.34	7.25	37.02	332	69	P	V
		2483.5	48.97	-5.03	54	46.4	32.34	7.25	37.02	332	69	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. 15+18	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)
802.11g CH 01 2412MHz		4830	40.77	-33.23	74	58.85	34.26	9.47	61.81	300	0	P	H
		4830	39.79	-34.21	74	57.87	34.26	9.47	61.81	100	0	P	V
802.11g CH 06 2437MHz		4875	39.41	-34.59	74	60.4	34	10.29	65.28	300	0	P	H
		7305	42.44	-31.56	74	60.64	35.76	12.72	66.68	300	0	P	H
		4875	39.79	-34.21	74	60.78	34	10.29	65.28	100	0	P	V
		7305	42.6	-31.4	74	60.8	35.76	12.72	66.68	100	0	P	V
802.11g CH 11 2462MHz		4920	40.63	-33.37	74	61.59	34	10.34	65.3	300	0	P	H
		7380	42.84	-31.16	74	61.24	35.78	12.73	66.91	300	0	P	H
		4920	40.12	-33.88	74	61.08	34	10.34	65.3	100	0	P	V
		7380	42.2	-31.8	74	60.6	35.78	12.73	66.91	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 802.11be EHT20 Full (Band Edge @ 3m)

WIFI Ant. 15+18	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)
		2389.3	63.11	-10.89	74	57.08	32.3	6.61	32.88	129	192	P	H
		2389.95	50.87	-3.13	54	44.8	32.3	6.61	32.84	129	192	A	H
802.11be		2408	111.65	-	-	105.56	32.3	6.63	32.84	129	192	P	H
EHT20 Full		2410	102.05	-	-	95.96	32.3	6.63	32.84	129	192	A	H
CH 01		2387.35	57.58	-16.42	74	51.55	32.3	6.61	32.88	300	78	P	V
2412MHz		2389.95	47	-7	54	40.93	32.3	6.61	32.84	300	78	A	V
		2410	106.09	-	-	100	32.3	6.63	32.84	300	78	P	V
		2410	97.06	-	-	90.97	32.3	6.63	32.84	300	78	A	V
		2464	109.24	-	-	102.88	32.37	6.7	32.71	391	227	P	H
		2464	99.85	-	-	93.49	32.37	6.7	32.71	391	227	A	H
802.11be		2484.22	61.07	-12.93	74	54.55	32.43	6.73	32.64	391	227	P	H
EHT20 Full		2483.5	49.43	-4.57	54	42.91	32.43	6.73	32.64	391	227	A	H
CH 11		2456	107.87	-	-	101.51	32.37	6.7	32.71	297	41	P	V
2462MHz		2454	97.83	-	-	91.47	32.37	6.7	32.71	297	41	A	V
		2485.12	56.78	-17.22	74	50.26	32.43	6.73	32.64	297	41	P	V
		2483.5	45.25	-8.75	54	38.73	32.43	6.73	32.64	297	41	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 Full (Harmonic @ 3m)

WIFI Ant. 15+18	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		4830	39.71	-34.29	74	57.79	34.26	9.47	61.81	300	0	P	H
		4830	40.21	-33.79	74	58.29	34.26	9.47	61.81	100	0	P	V
802.11be EHT20 Full CH 06 2437MHz		4875	39.62	-34.38	74	60.61	34	10.29	65.28	300	0	P	H
		7305	41.42	-32.58	74	59.62	35.76	12.72	66.68	300	0	P	H
		4875	40.15	-33.85	74	61.14	34	10.29	65.28	100	0	P	V
		7305	41.87	-32.13	74	60.07	35.76	12.72	66.68	100	0	P	V
802.11be EHT20 Full CH 11 2462MHz		4920	40.94	-33.06	74	59	34.1	9.58	61.74	300	0	P	H
		7380	43.44	-30.56	74	58.09	35.7	11.71	62.06	300	0	P	H
		4920	41.28	-32.72	74	59.34	34.1	9.58	61.74	100	0	P	V
		7380	42.24	-31.76	74	56.89	35.7	11.71	62.06	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 802.11be EHT20 Partial 26/8 (Band Edge @ 3m)

WIFI Ant. 15+18	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 Partial 26/8 CH 11 2462MHz		2483.92	55.37	-18.63	74	48.85	32.43	6.73	32.64	100	270	P	H
		2490.7	43.23	-10.77	54	36.62	32.5	6.75	32.64	100	270	A	H
		2470	106.55	-	-	100.12	32.37	6.7	32.64	100	270	P	H
		2470	97.72	-	-	91.29	32.37	6.7	32.64	100	270	A	H
		2490.7	53.78	-20.22	74	47.17	32.5	6.75	32.64	290	39	P	V
		2493.34	43.25	-10.75	54	36.57	32.5	6.75	32.57	290	39	A	V
		2470	100.37	-	-	93.94	32.37	6.7	32.64	290	39	P	V
		2470	90.86	-	-	84.43	32.37	6.7	32.64	290	39	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 Partial 106/53 (Band Edge @ 3m)

WIFI Ant. 15+18	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 Partial 106/53 CH 01 2412MHz		2389.95	59.89	-14.11	74	53.82	32.3	6.61	32.84	100	193	P	H
		2389.95	46.02	-7.98	54	39.95	32.3	6.61	32.84	100	193	A	H
		2410	109.71	-	-	103.62	32.3	6.63	32.84	100	193	P	H
		2408	99.94	-	-	93.85	32.3	6.63	32.84	100	193	A	H
		2389.69	54.73	-19.27	74	48.7	32.3	6.61	32.88	345	81	P	V
		2389.69	43.53	-10.47	54	37.5	32.3	6.61	32.88	345	81	A	V
		2410	106.77	-	-	100.68	32.3	6.63	32.84	345	81	P	V
		2410	96.95	-	-	90.86	32.3	6.63	32.84	345	81	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 RU Index 37+2 (Band Edge @ 3m)

WIFI Ant. 15+18	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 Index 37+2 CH 01 2412MHz		2389.82	62.65	-11.35	74	56.58	32.3	6.61	32.84	129	193	P	H
		2389.82	44.42	-9.58	54	38.35	32.3	6.61	32.84	129	193	A	H
		2410	111.12	-	-	105.03	32.3	6.63	32.84	129	193	P	H
		2410	100.72	-	-	94.63	32.3	6.63	32.84	129	193	A	H
		2389.95	60.75	-13.25	74	54.68	32.3	6.61	32.84	343	79	P	V
		2389.95	44.2	-9.8	54	38.13	32.3	6.61	32.84	343	79	A	V
		2410	108.28	-	-	102.19	32.3	6.63	32.84	343	79	P	V
		2410	97.5	-	-	91.41	32.3	6.63	32.84	343	79	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 RU Index 54+4 (Band Edge @ 3m)

WIFI Ant. 15+18	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 Index 54+4 CH 11 2462MHz		2483.62	64.39	-9.61	74	57.87	32.43	6.73	32.64	122	215	P	H
		2483.5	49.85	-4.15	54	43.33	32.43	6.73	32.64	122	215	A	H
		2466	110.31	-	-	103.95	32.37	6.7	32.71	122	215	P	H
		2466	100	-	-	93.64	32.37	6.7	32.71	122	215	A	H
		2483.86	61.07	-12.93	74	54.55	32.43	6.73	32.64	365	100	P	V
		2483.5	47.71	-6.29	54	41.19	32.43	6.73	32.64	365	100	A	V
		2462	108.07	-	-	101.71	32.37	6.7	32.71	365	100	P	V
		2462	98.71	-	-	92.35	32.37	6.7	32.71	365	100	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 EHT40 Full (Band Edge @ 3m)

WIFI Ant. 15+18	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		2389.17	62.94	-11.06	74	56.91	32.3	6.61	32.88	105	186	P	H
		2389.95	50.91	-3.09	54	44.84	32.3	6.61	32.84	105	186	A	H
		2438	107.92	-	-	101.71	32.3	6.68	32.77	105	186	P	H
		2440	99.33	-	-	93.12	32.3	6.68	32.77	105	186	A	H
		2484.64	54.89	-19.11	74	48.37	32.43	6.73	32.64	105	186	P	H
		2483.56	44.68	-9.32	54	38.16	32.43	6.73	32.64	105	186	A	H
		2389.56	59.32	-14.68	74	53.29	32.3	6.61	32.88	300	77	P	V
		2389.95	47.68	-6.32	54	41.61	32.3	6.61	32.84	300	77	A	V
		2420	104.89	-	-	98.7	32.3	6.66	32.77	300	77	P	V
		2418	94.65	-	-	88.49	32.3	6.63	32.77	300	77	A	V
		2485.6	54.46	-19.54	74	47.94	32.43	6.73	32.64	300	77	P	V
		2483.56	43.63	-10.37	54	37.11	32.43	6.73	32.64	300	77	A	V
802.11be EHT40 Full CH 06 2437MHz		2389.95	60.85	-13.15	74	54.78	32.3	6.61	32.84	154	192	P	H
		2389.95	48.89	-5.11	54	42.82	32.3	6.61	32.84	154	192	A	H
		2436	109.8	-	-	103.61	32.3	6.66	32.77	154	192	P	H
		2438	99.96	-	-	93.75	32.3	6.68	32.77	154	192	A	H
		2485.18	62.22	-11.78	74	55.7	32.43	6.73	32.64	154	192	P	H
		2483.5	49.54	-4.46	54	43.02	32.43	6.73	32.64	154	192	A	H
		2387.74	60.86	-13.14	74	54.83	32.3	6.61	32.88	307	40	P	V
		2389.95	47.94	-6.06	54	41.87	32.3	6.61	32.84	307	40	A	V
		2452	105.15	-	-	98.88	32.3	6.68	32.71	307	40	P	V
		2450	95.05	-	-	88.78	32.3	6.68	32.71	307	40	A	V
		2483.92	56.76	-17.24	74	50.24	32.43	6.73	32.64	307	40	P	V
		2483.5	45.46	-8.54	54	38.94	32.43	6.73	32.64	307	40	A	V

WIFI Ant. 15+18	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 09 2452MHz		2388.65	53.61	-20.39	74	47.58	32.3	6.61	32.88	126	198	P	H
		2389.95	43.78	-10.22	54	37.71	32.3	6.61	32.84	126	198	A	H
		2448	108.05	-	-	101.78	32.3	6.68	32.71	126	198	P	H
		2434	97.89	-	-	91.7	32.3	6.66	32.77	126	198	A	H
		2486.2	61.65	-12.35	74	55.13	32.43	6.73	32.64	126	198	P	H
		2483.5	49.55	-4.45	54	43.03	32.43	6.73	32.64	126	198	A	H
		2389.43	53.99	-20.01	74	47.96	32.3	6.61	32.88	380	40	P	V
		2389.82	42.67	-11.33	54	36.6	32.3	6.61	32.84	380	40	A	V
		2446	103.82	-	-	97.55	32.3	6.68	32.71	380	40	P	V
		2446	93.84	-	-	87.57	32.3	6.68	32.71	380	40	A	V
		2483.98	59.12	-14.88	74	52.6	32.43	6.73	32.64	380	40	P	V
		2484.34	47.11	-6.89	54	40.59	32.43	6.73	32.64	380	40	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 EHT40 Full (Harmonic @ 3m)

WIFI Ant. 15+18	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		4845	40.27	-33.73	74	58.35	34.22	9.49	61.79	300	0	P	H
EHT40 Full		7260	43.17	-30.83	74	57.85	35.7	11.67	62.05	300	0	P	H
CH 03		4845	42.16	-31.84	74	60.24	34.22	9.49	61.79	100	0	P	V
2422MHz		7260	43.25	-30.75	74	57.93	35.7	11.67	62.05	100	0	P	V
802.11be		4875	41.38	-32.62	74	59.49	34.14	9.52	61.77	300	0	P	H
EHT40 Full		7305	43.4	-30.6	74	58.07	35.7	11.69	62.06	300	0	P	H
CH 06		4875	40.17	-33.83	74	58.28	34.14	9.52	61.77	100	0	P	V
2437MHz		7305	43.73	-30.27	74	58.4	35.7	11.69	62.06	100	0	P	V
802.11be		4905	40.91	-33.09	74	59	34.1	9.56	61.75	300	0	P	H
EHT40 Full		7350	44.59	-29.41	74	59.24	35.7	11.71	62.06	300	0	P	H
CH 09		4905	41.65	-32.35	74	59.74	34.1	9.56	61.75	100	0	P	V
2452MHz		7350	43.33	-30.67	74	57.98	35.7	11.71	62.06	100	0	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 EHT40 (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+18		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11be EHT40 LF		31.94	20.98	-19.02	40	28.38	24.04	0.76	32.2	-	-	P	H
		93.05	15.17	-28.33	43.5	30.86	15.19	1.36	32.24	-	-	P	H
		155.13	27.05	-16.45	43.5	40.53	16.8	1.82	32.1	-	-	P	H
		207.51	16.32	-27.18	43.5	31.16	15.18	2.09	32.11	-	-	P	H
		305.48	17.46	-28.54	46	27.54	19.46	2.57	32.11	-	-	P	H
		427.7	21.96	-24.04	46	28.56	22.57	3.07	32.24	-	-	P	H
		55.22	22.11	-17.89	40	40.13	13.15	1.03	32.2	-	-	P	V
		95.96	18.32	-25.18	43.5	33.55	15.58	1.39	32.2	-	-	P	V
		155.13	28.51	-14.99	43.5	41.99	16.8	1.82	32.1	-	-	P	V
		258.92	17.95	-28.05	46	27.7	20.26	2.17	32.18	-	-	P	V
		322.94	20.52	-25.48	46	30.33	19.69	2.65	32.15	-	-	P	V
		395.69	21.55	-24.45	46	29.1	21.76	2.98	32.29	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against 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+18		(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)

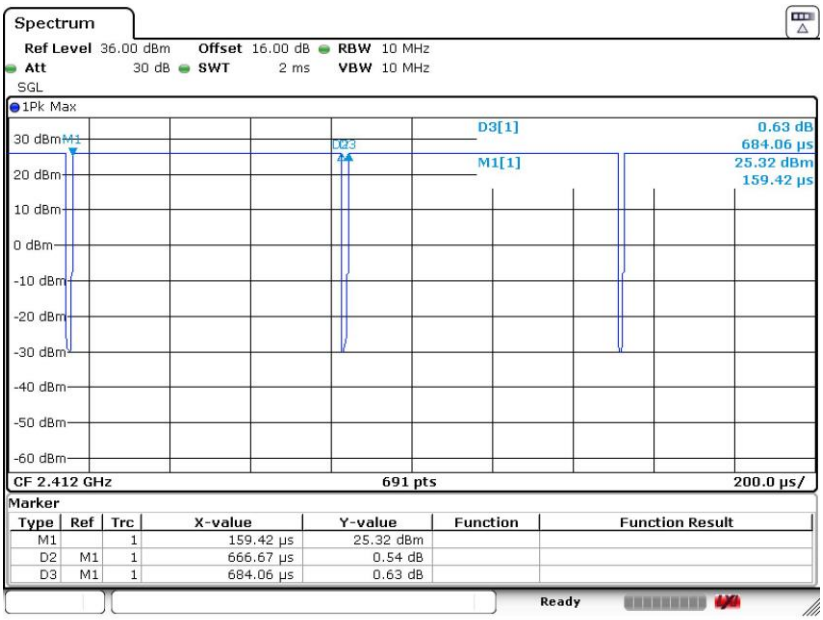
= -10.46(dB)

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

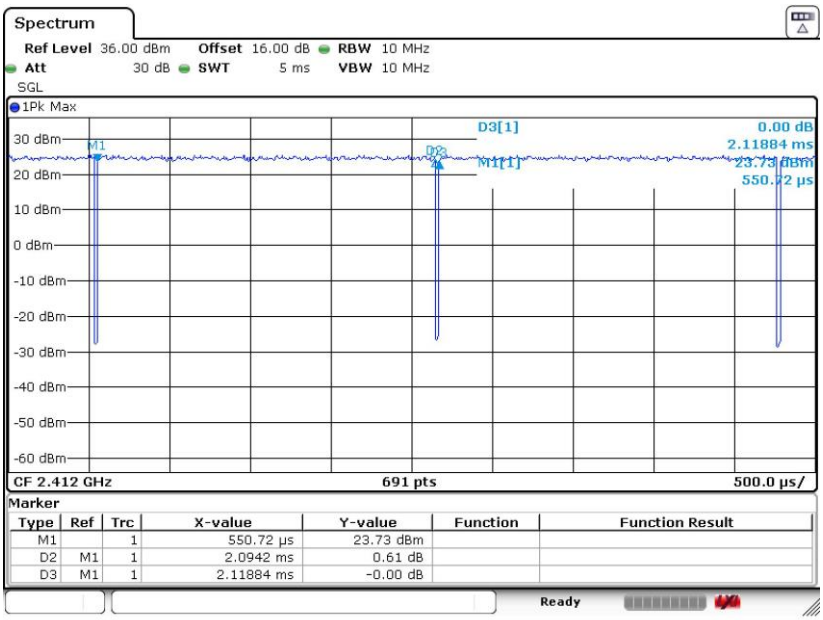
Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11b	97.46	0.6667	1.5000	1.5kHz
1+2	802.11g	98.84	-	-	10Hz
1+2	802.11be EHT20	100	-	-	10Hz
1+2	802.11be EHT20-Single RU26	95.65	5.1014	0.1960	0.2kHz
1+2	802.11be EHT20-Single RU52	95.63	5.0725	0.1971	0.2kHz
1+2	802.11be EHT20-Single RU106	94.80	4.7536	0.2104	0.22kHz
1+2	802.11be EHT20-Small RU52+26	95.15	4.5507	0.2197	0.22kHz
1+2	802.11be EHT20-Small RU106+26	96.13	4.3188	0.2315	0.24kHz
1+2	802.11be EHT40	100	-	-	10Hz

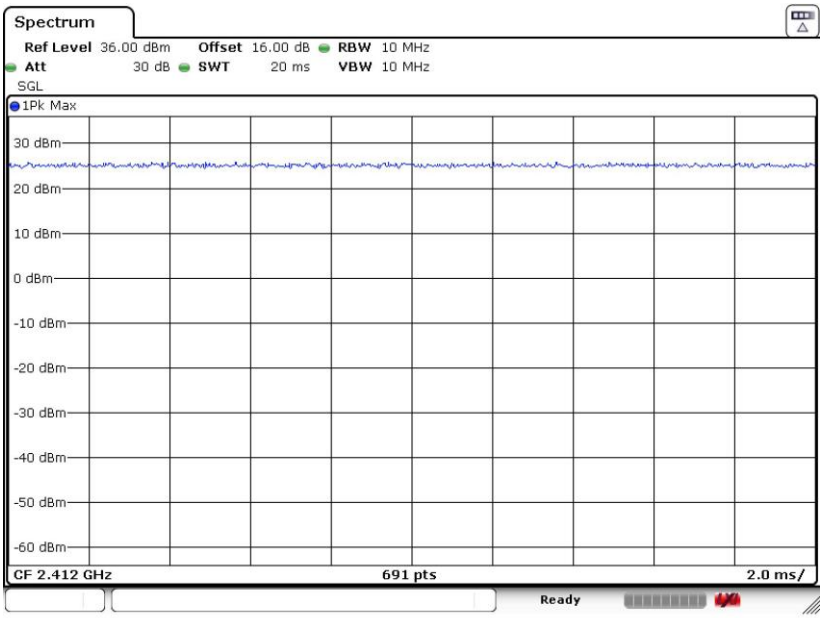
802.11b



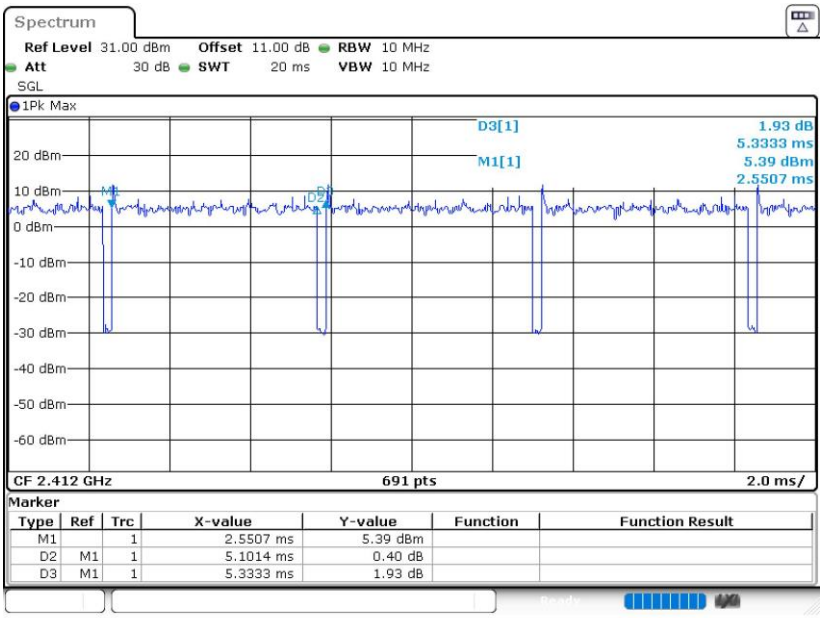
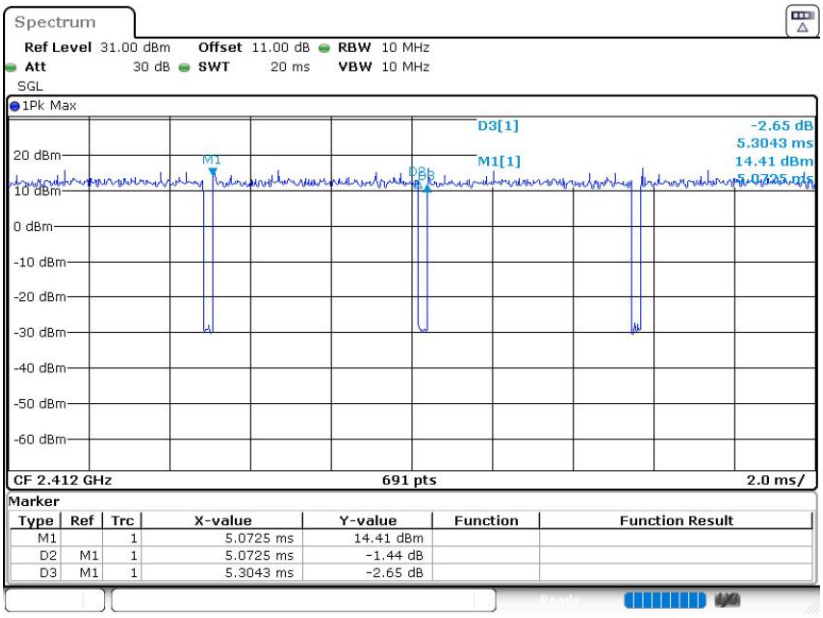
802.11g



802.11be EHT20



802.11be EHT20-Single RU26



802.11be EHT20-Single RU52