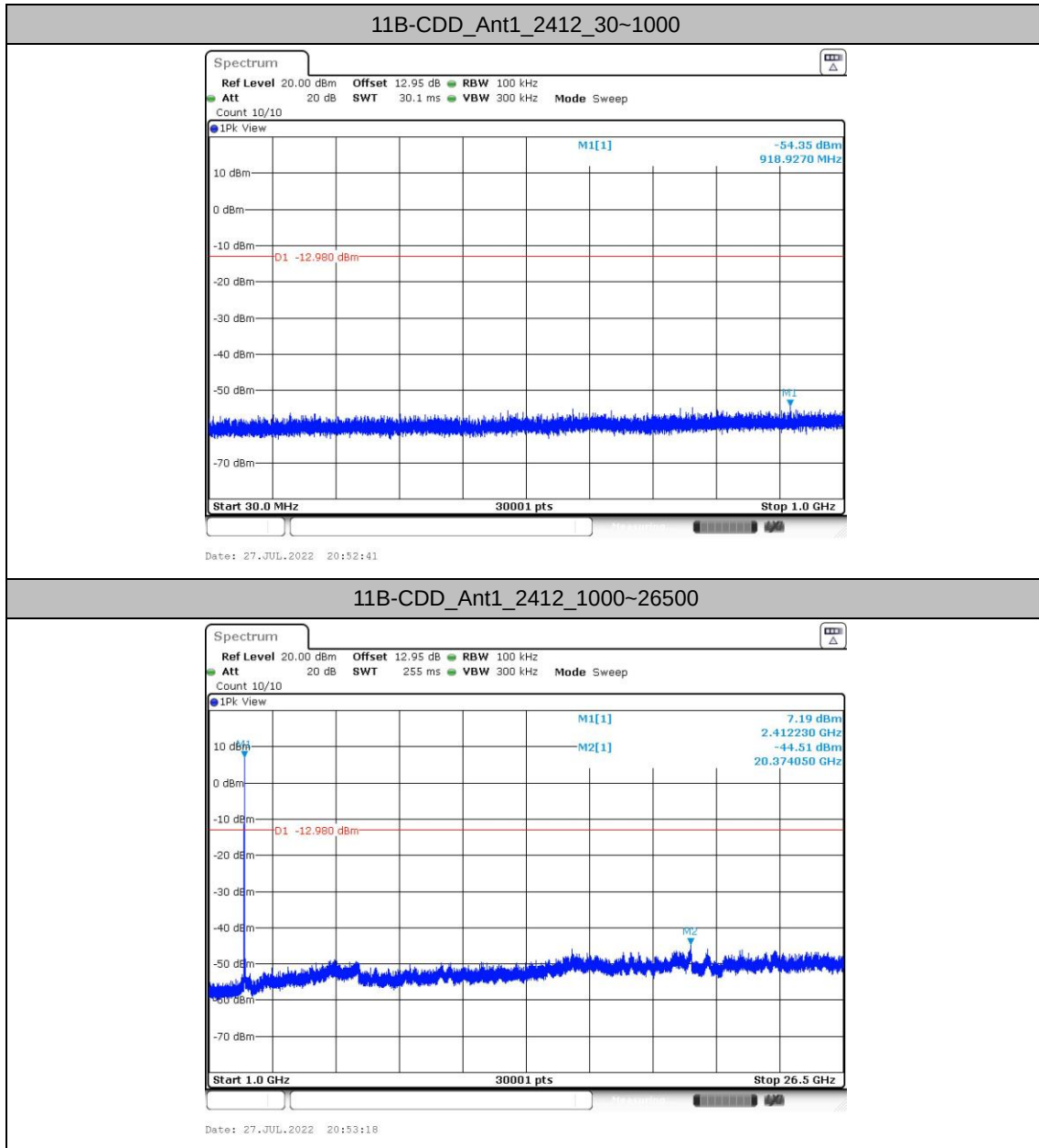


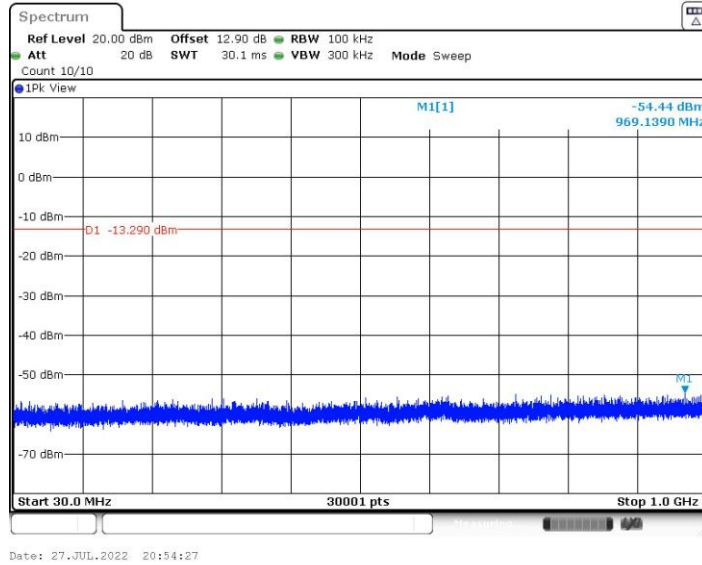


Test Graphs

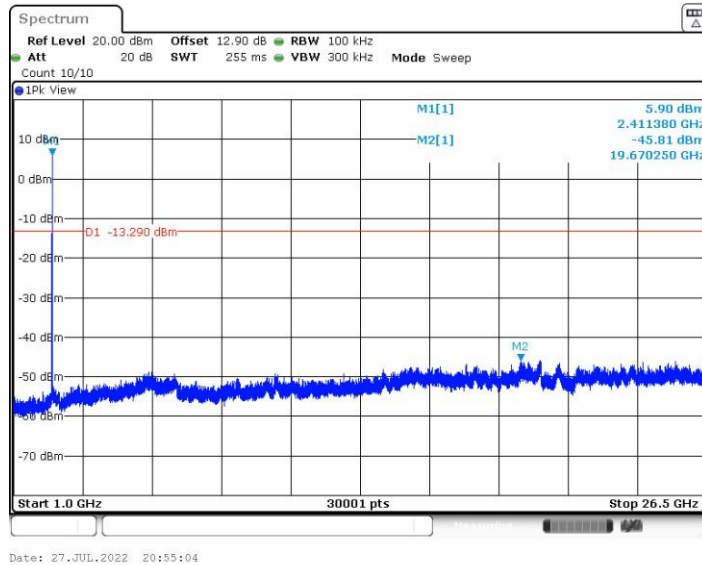




11B-CDD_Ant2_2412_30~1000

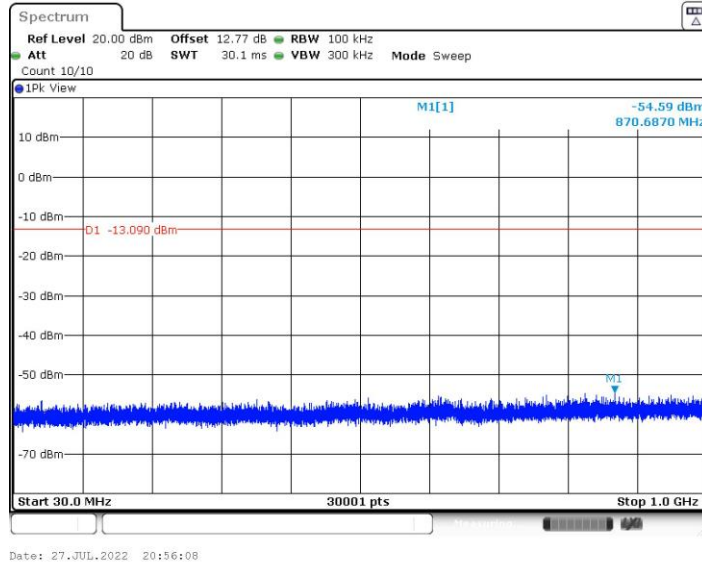


11B-CDD_Ant2_2412_1000~26500

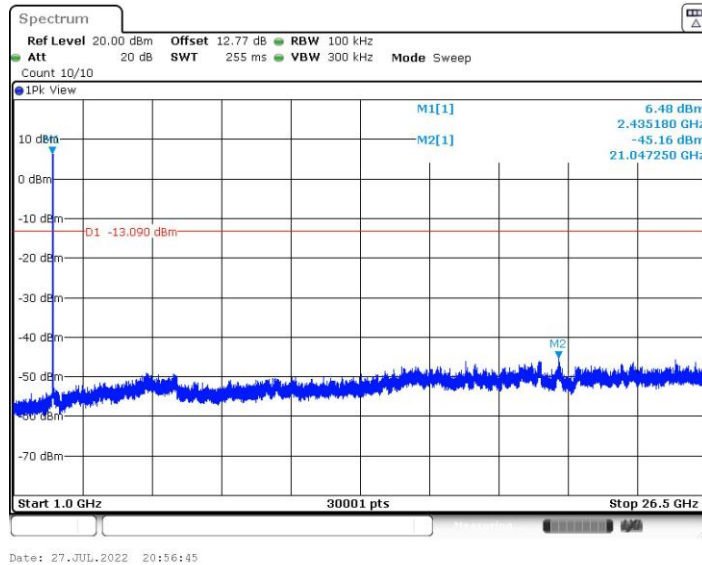




11B-CDD_Ant1_2437_30~1000

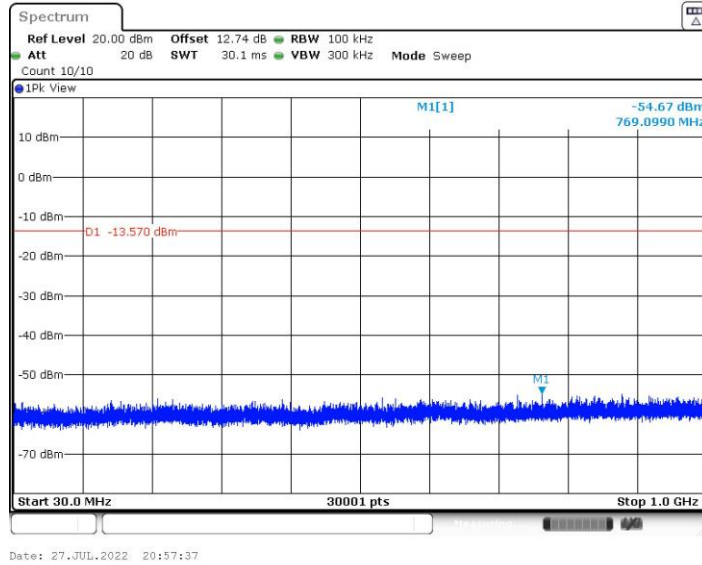


11B-CDD_Ant1_2437_1000~26500

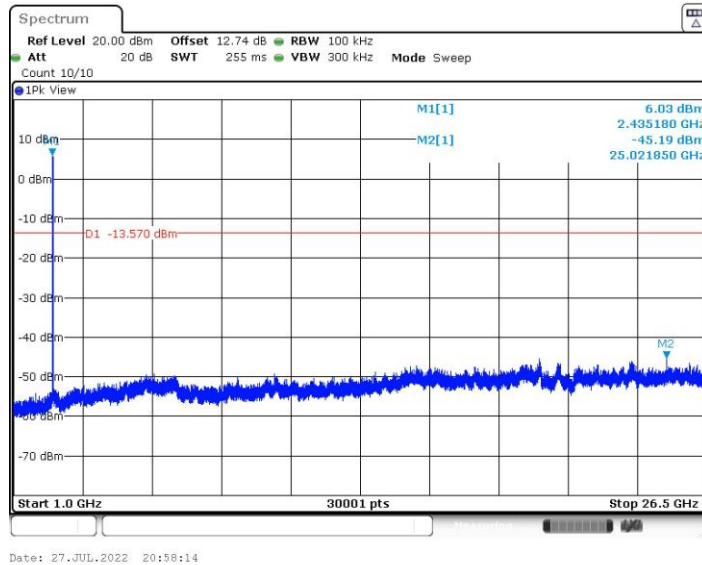




11B-CDD_Ant2_2437_30~1000

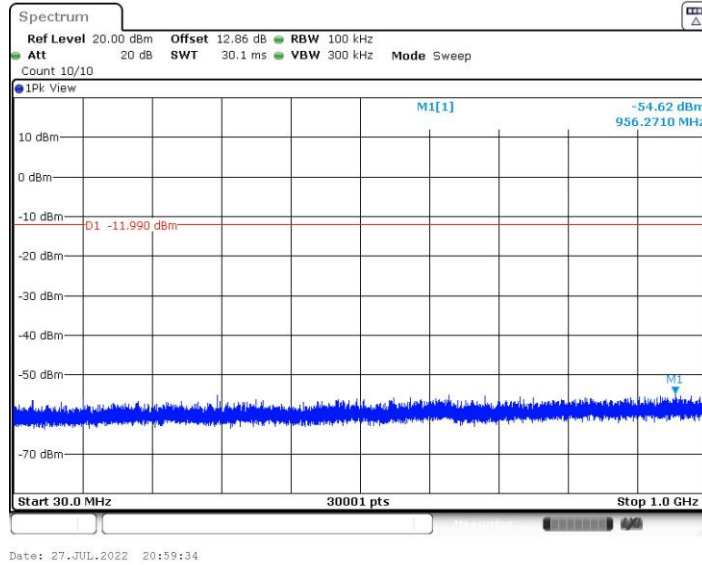


11B-CDD_Ant2_2437_1000~26500

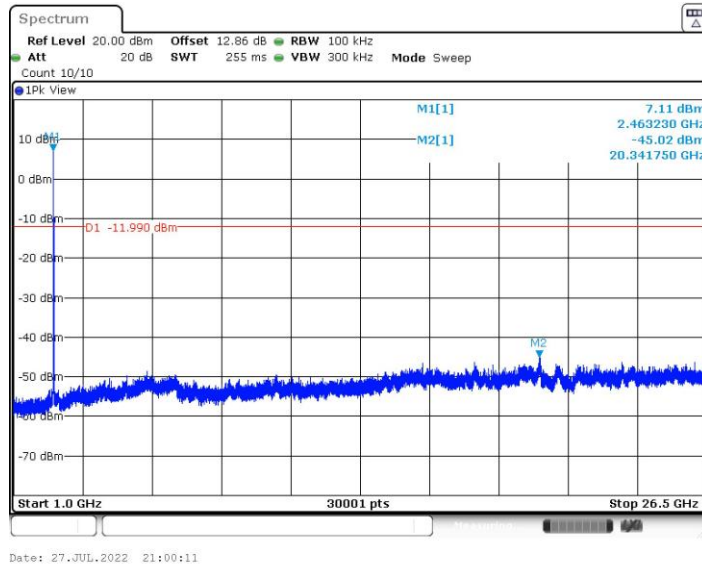


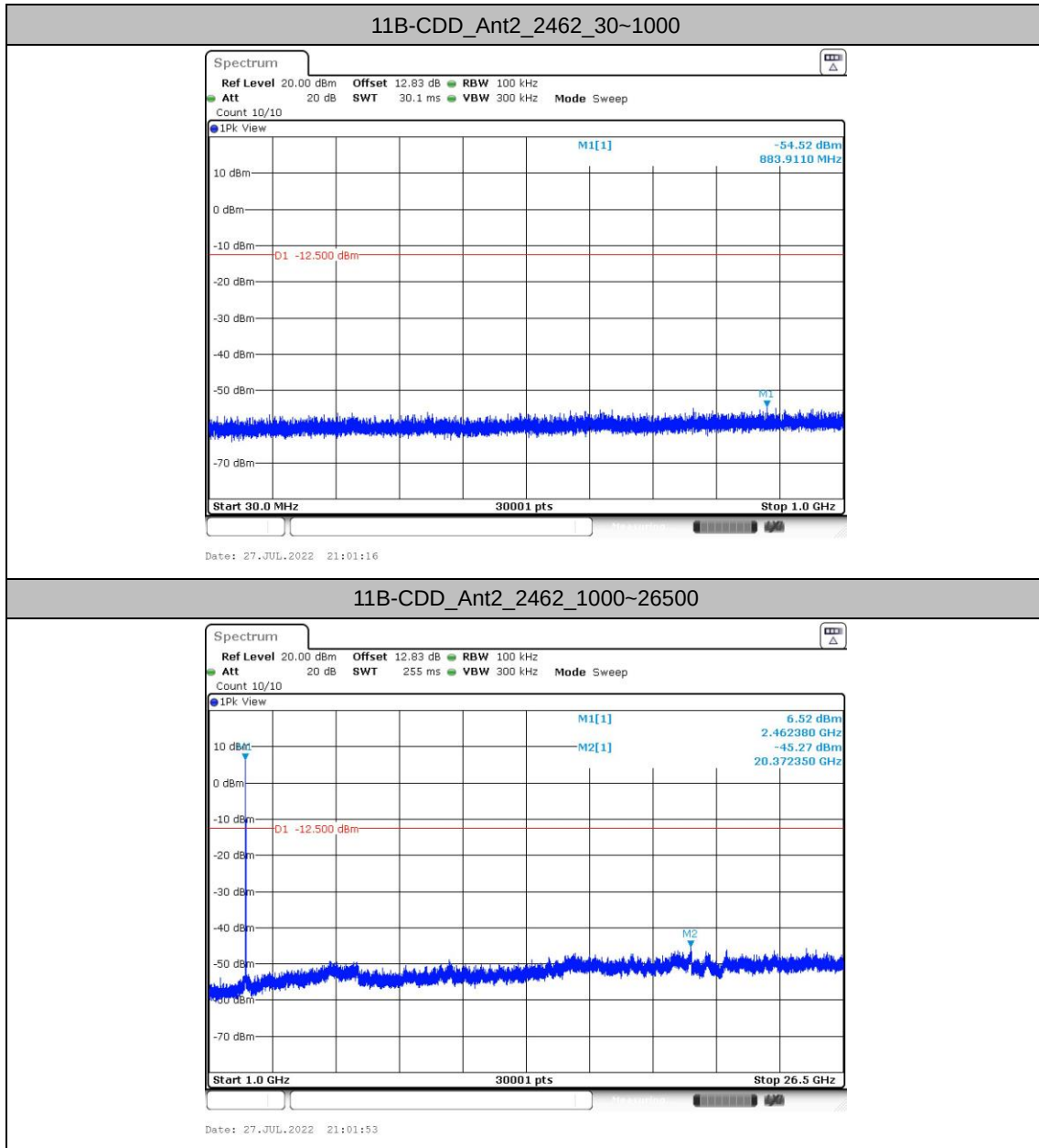


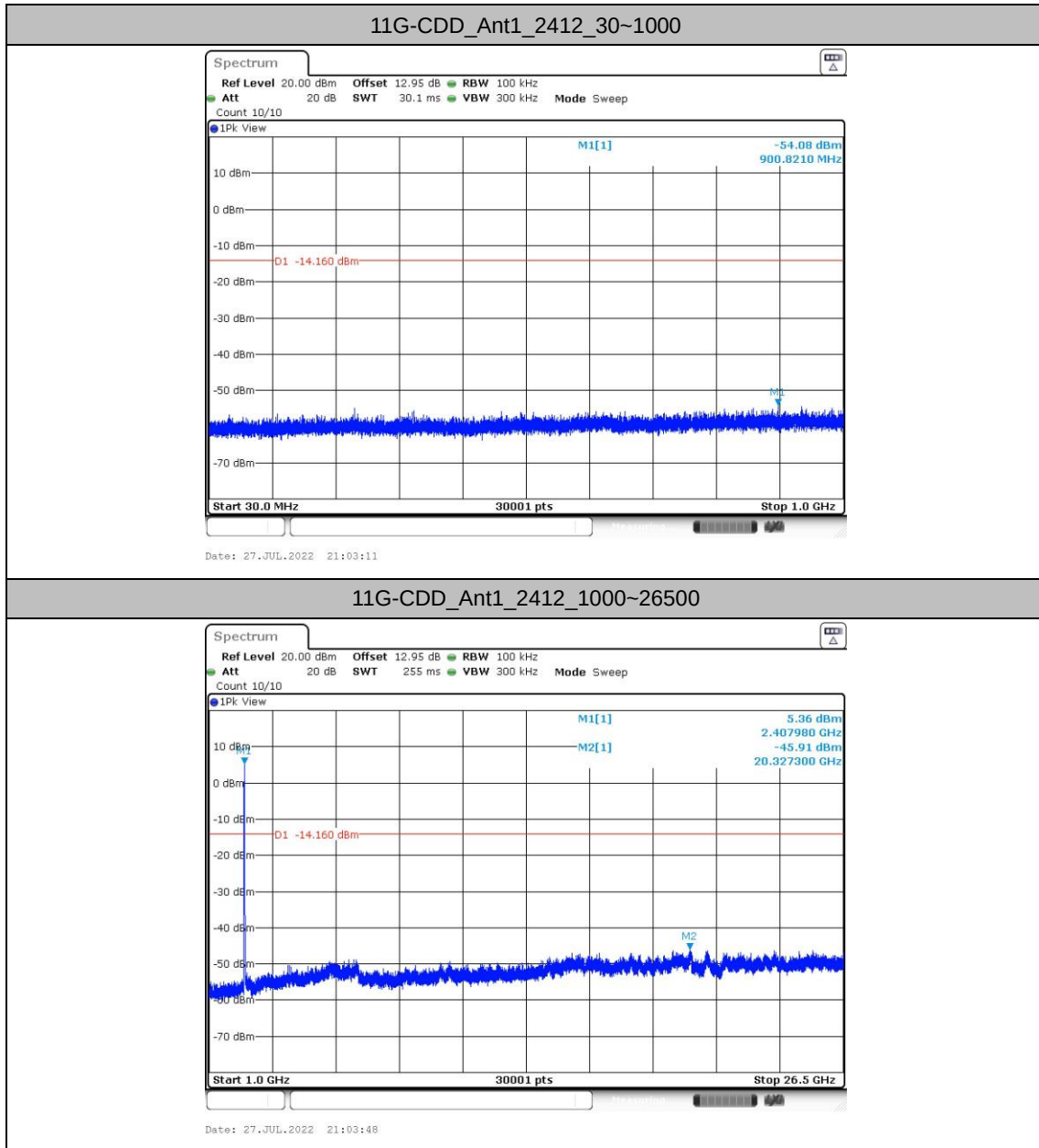
11B-CDD_Ant1_2462_30~1000

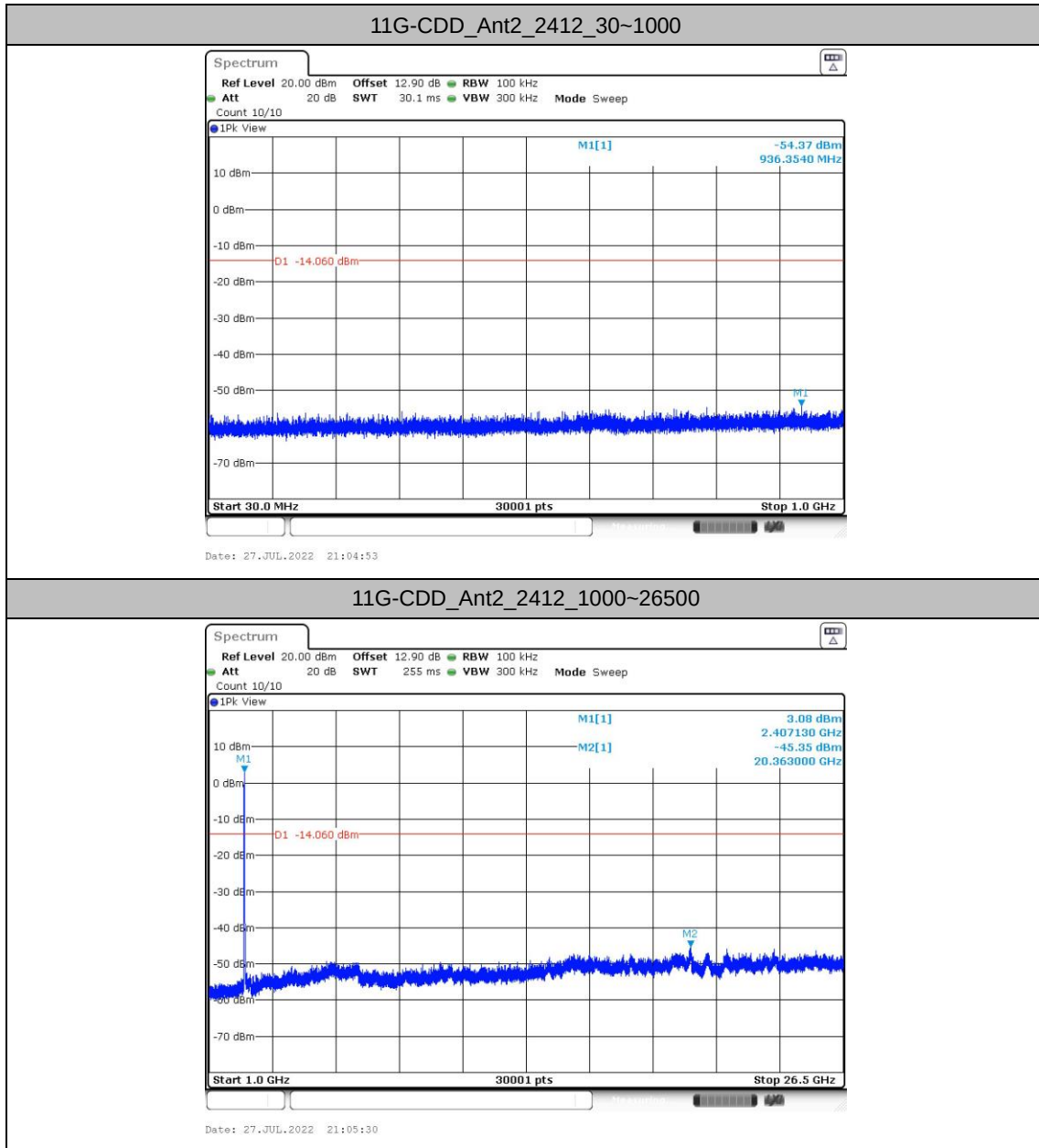


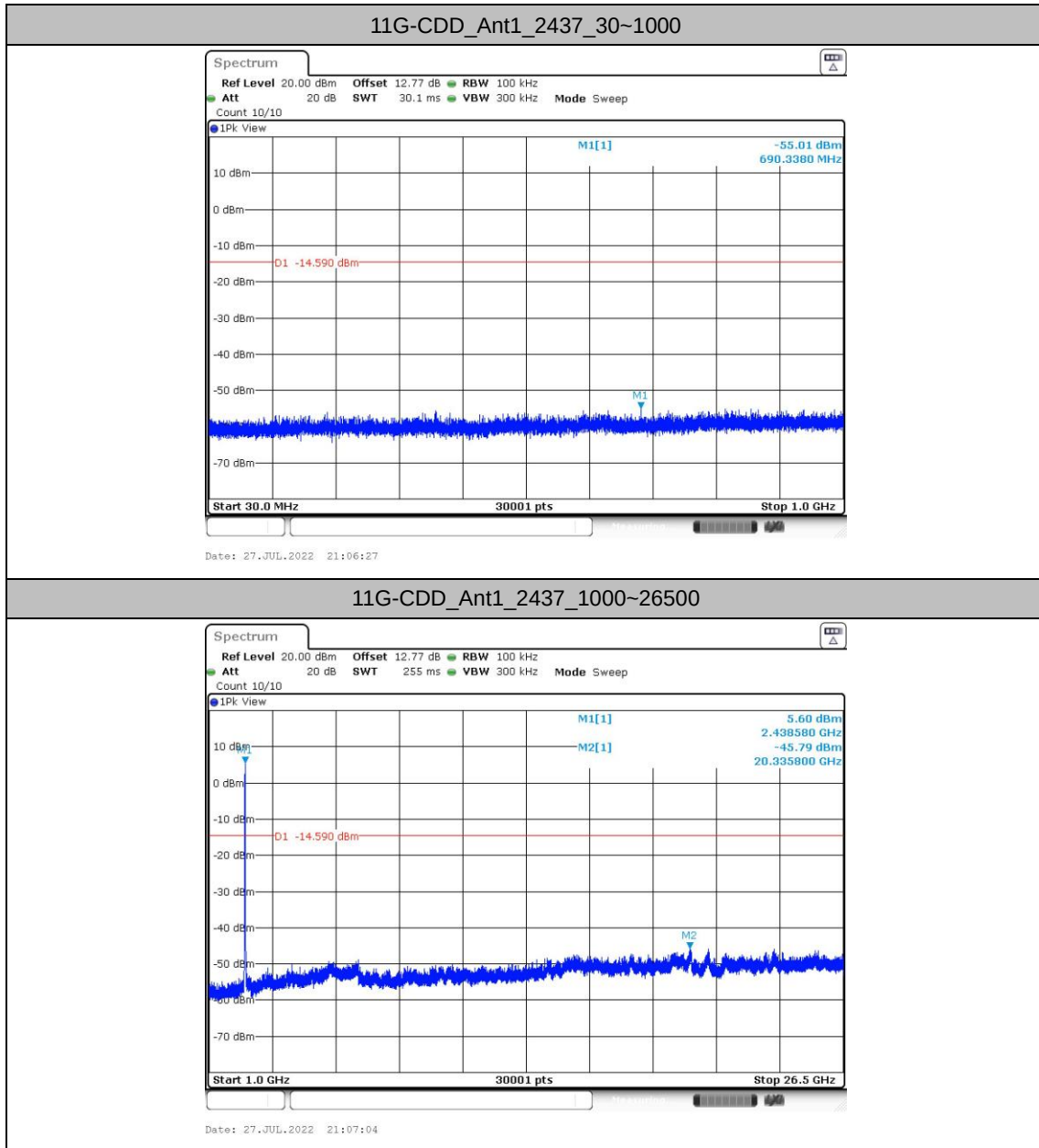
11B-CDD_Ant1_2462_1000~26500

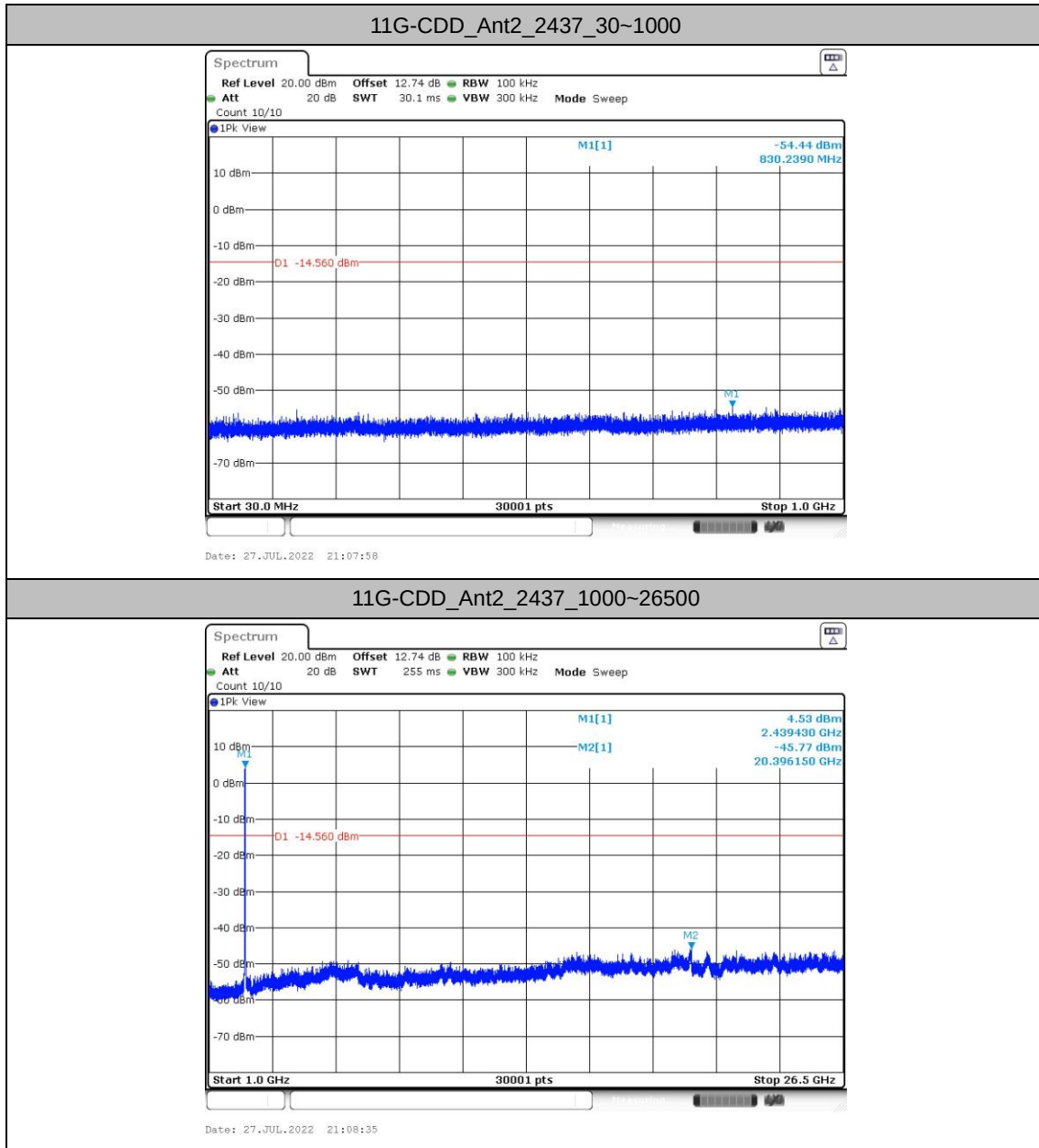


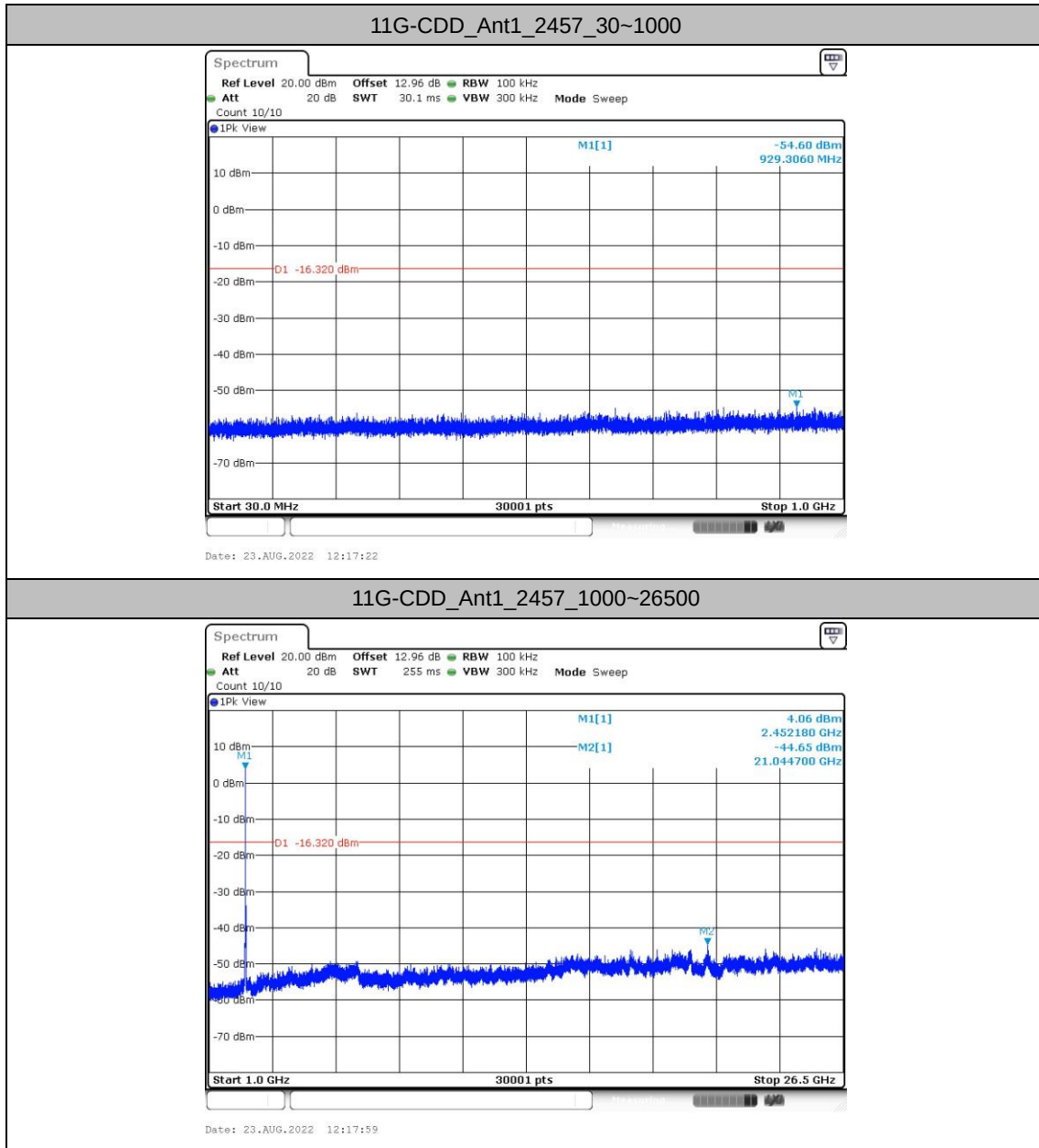


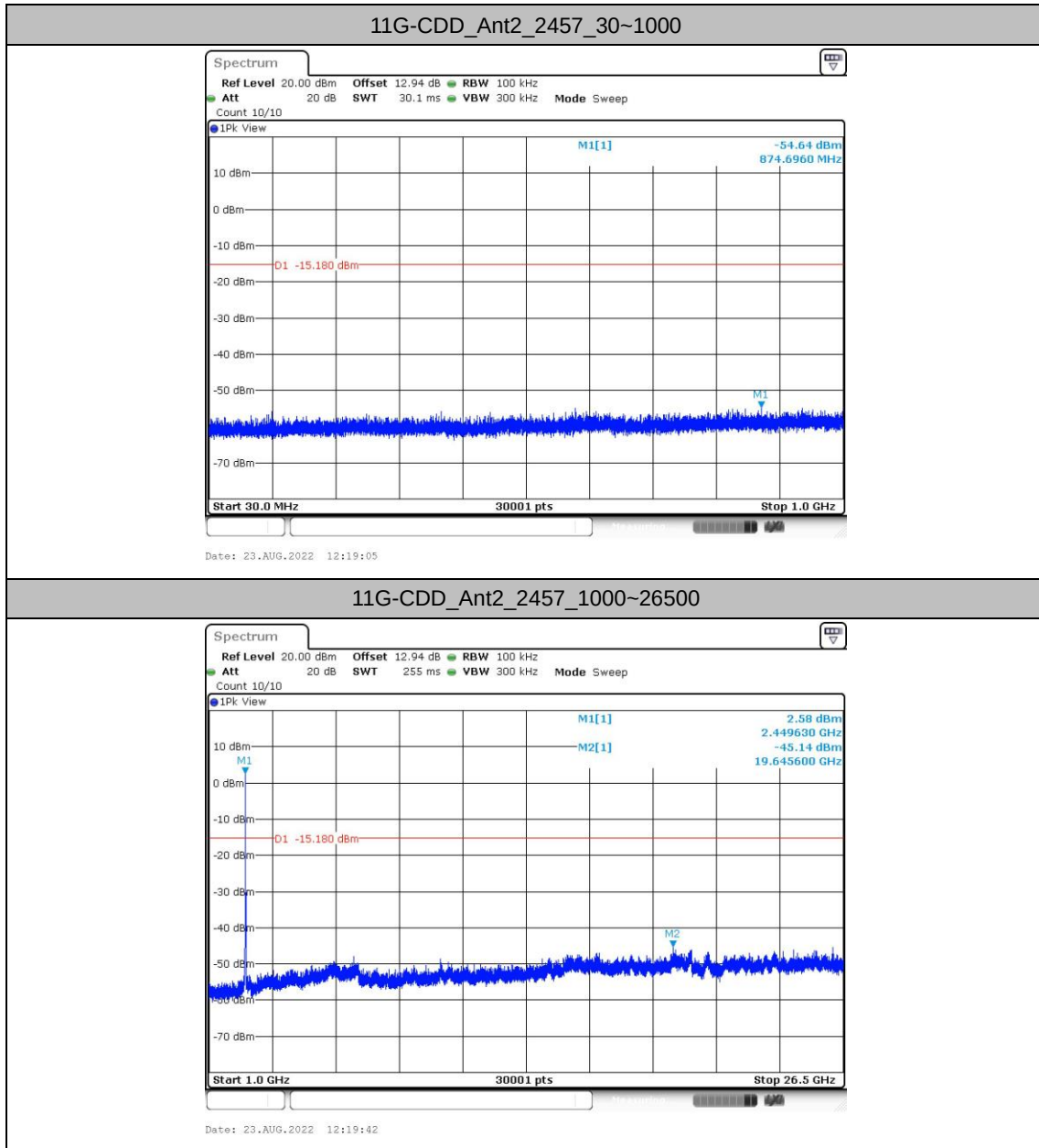


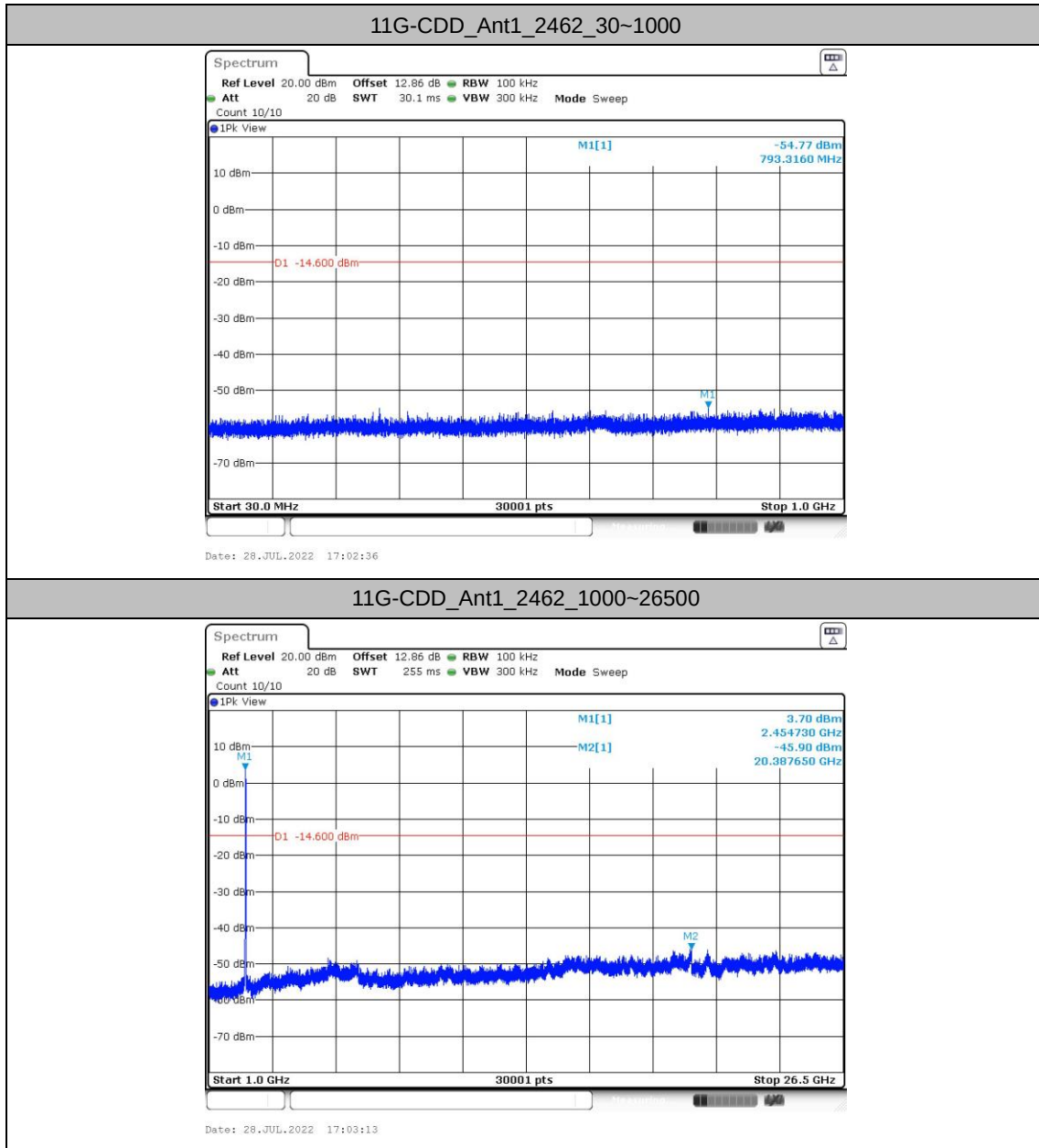






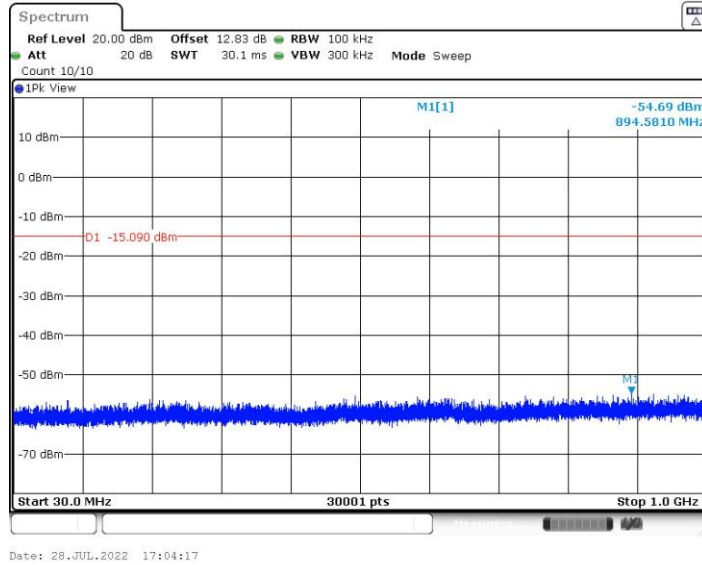




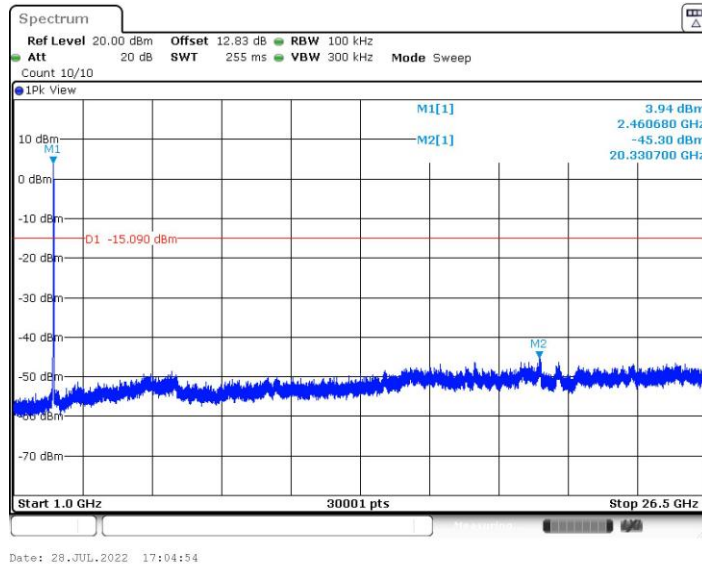




11G-CDD_Ant2_2462_30~1000

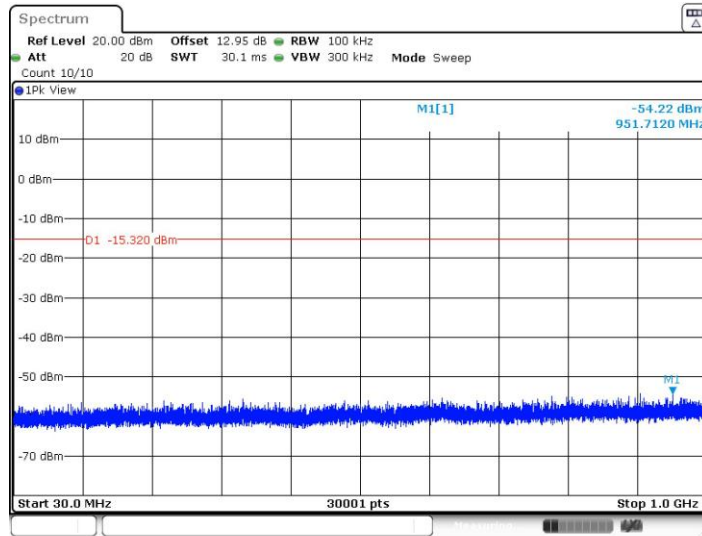


11G-CDD_Ant2_2462_1000~26500



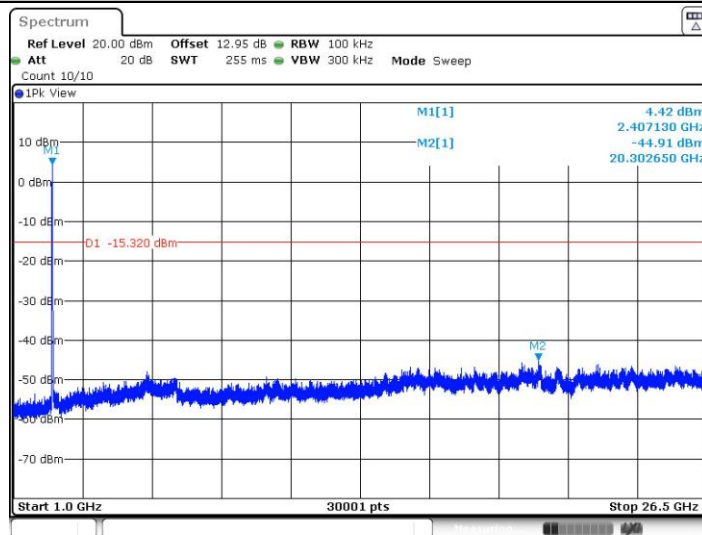


11AX20MIMO_Ant1_2412_30~1000



Date: 28.JUL.2022 17:06:09

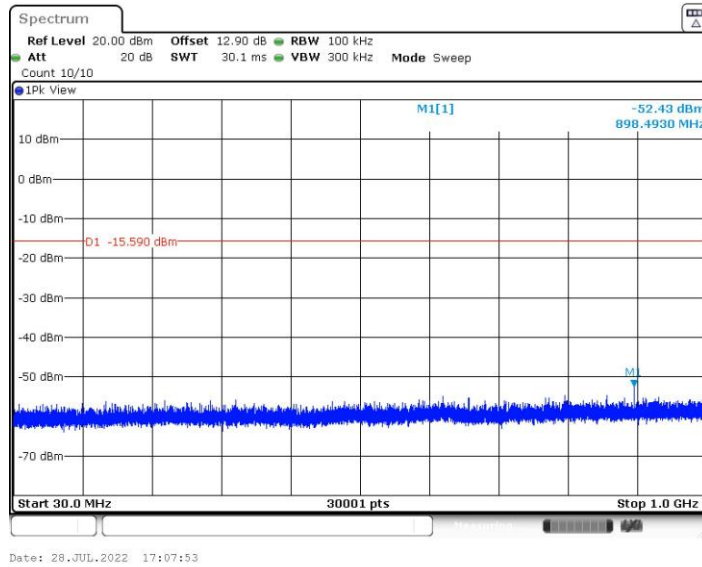
11AX20MIMO_Ant1_2412_1000~26500



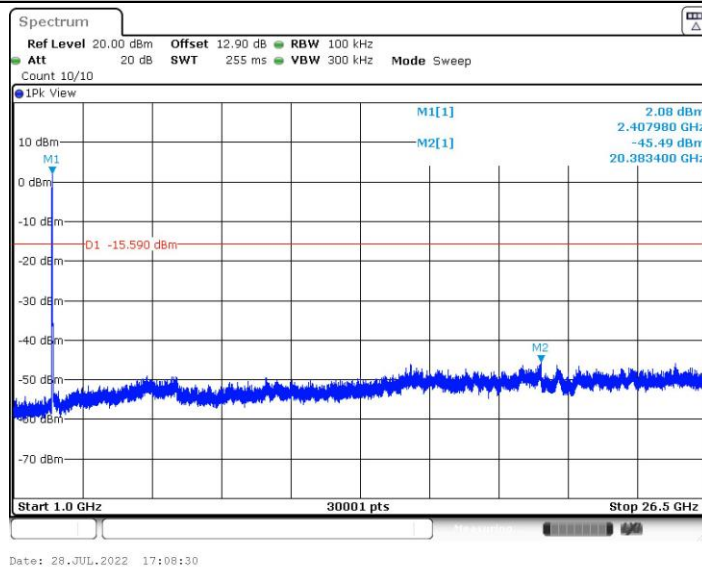
Date: 28.JUL.2022 17:06:46



11AX20MIMO_Ant2_2412_30~1000

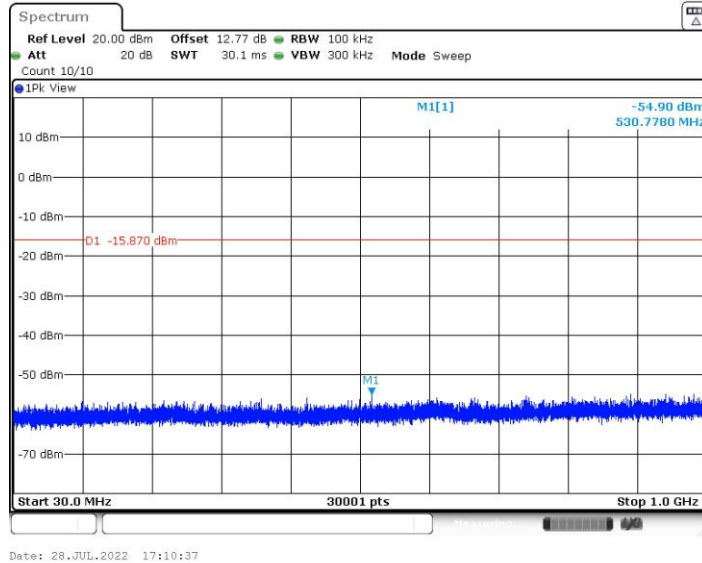


11AX20MIMO_Ant2_2412_1000~26500

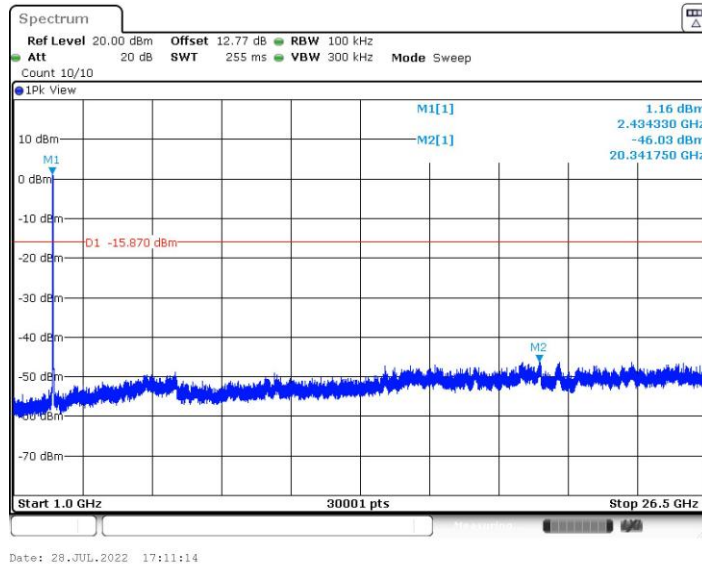




11AX20MIMO_Ant1_2437_30~1000

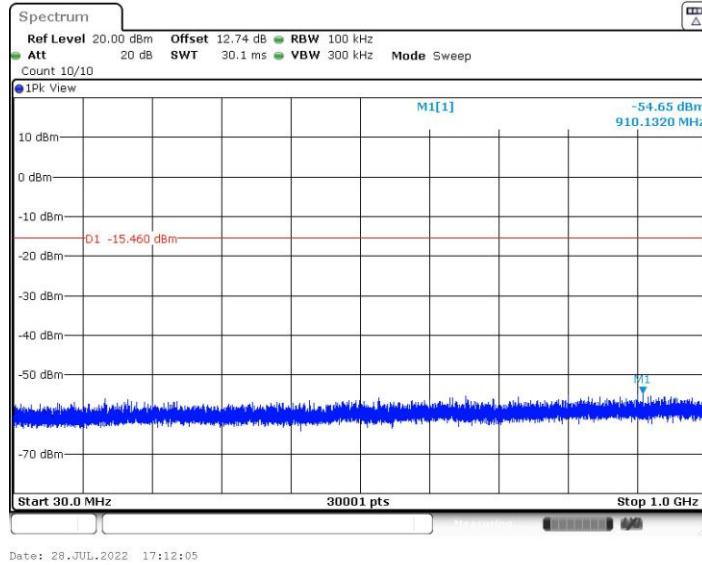


11AX20MIMO_Ant1_2437_1000~26500

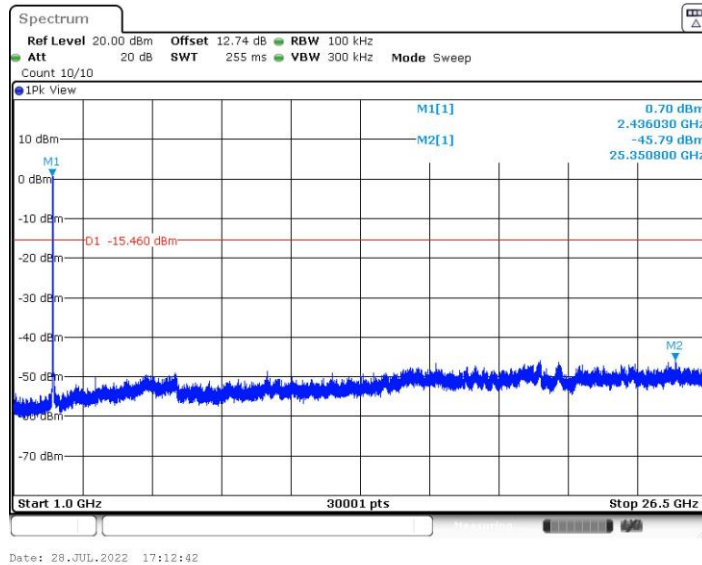




11AX20MIMO_Ant2_2437_30~1000

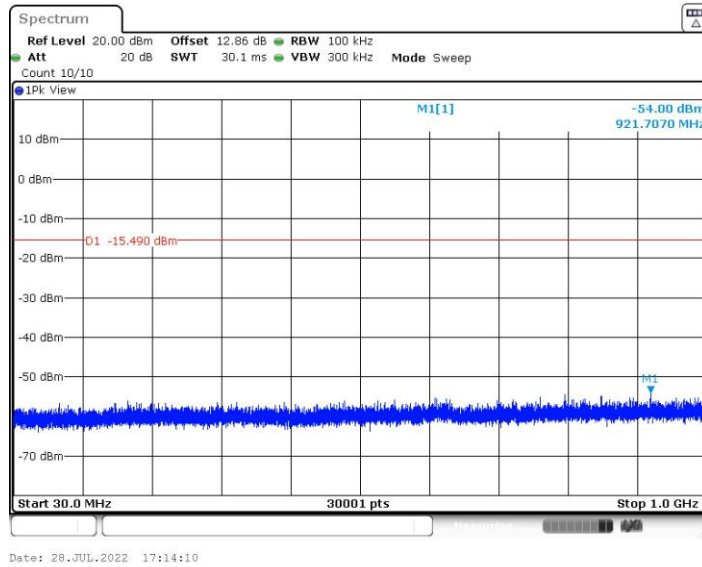


11AX20MIMO_Ant2_2437_1000~26500

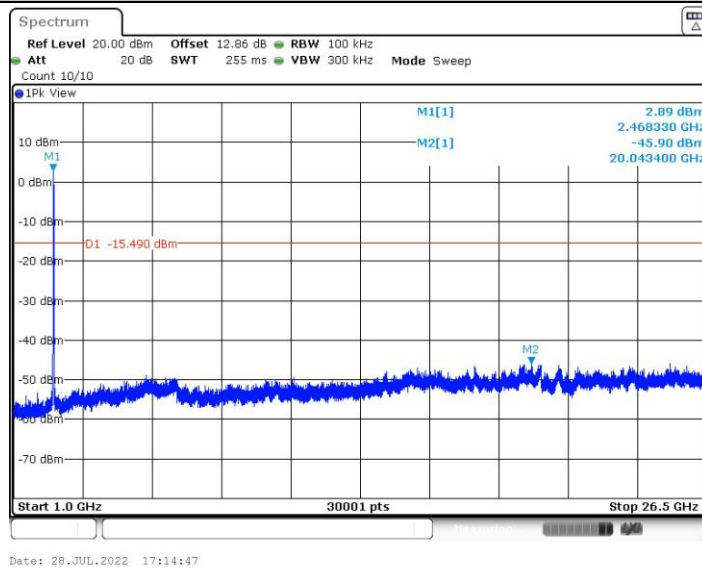




11AX20MIMO_Ant1_2462_30~1000

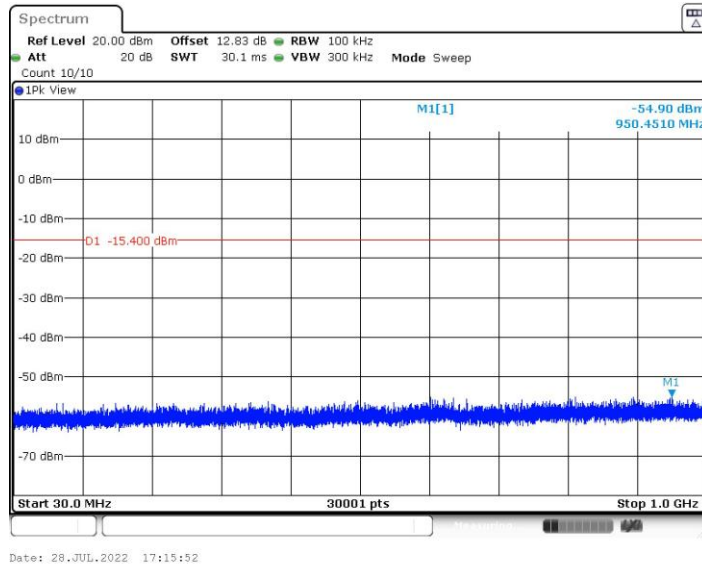


11AX20MIMO_Ant1_2462_1000~26500

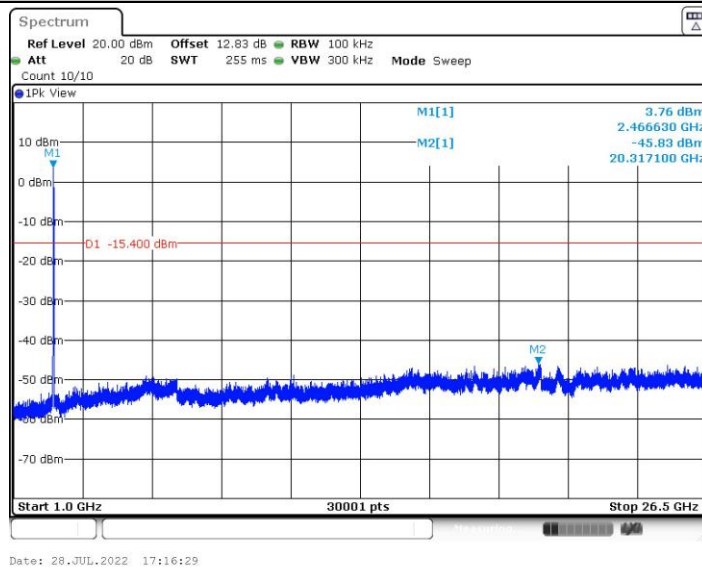




11AX20MIMO_Ant2_2462_30~1000

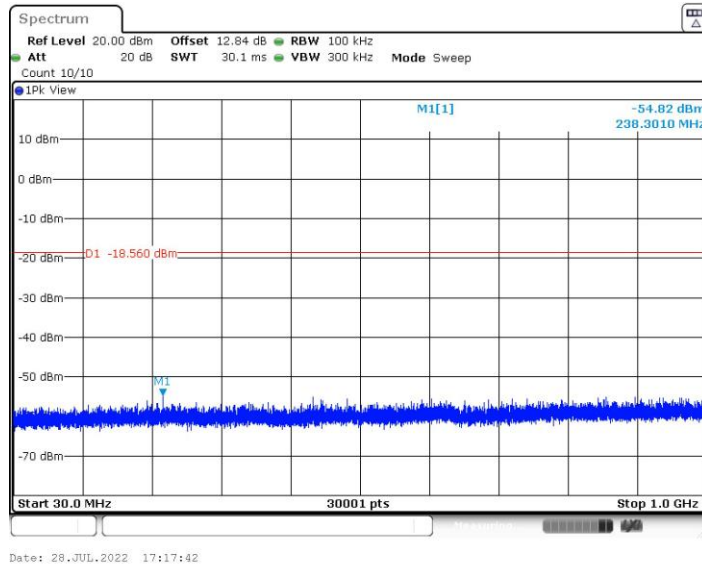


11AX20MIMO_Ant2_2462_1000~26500

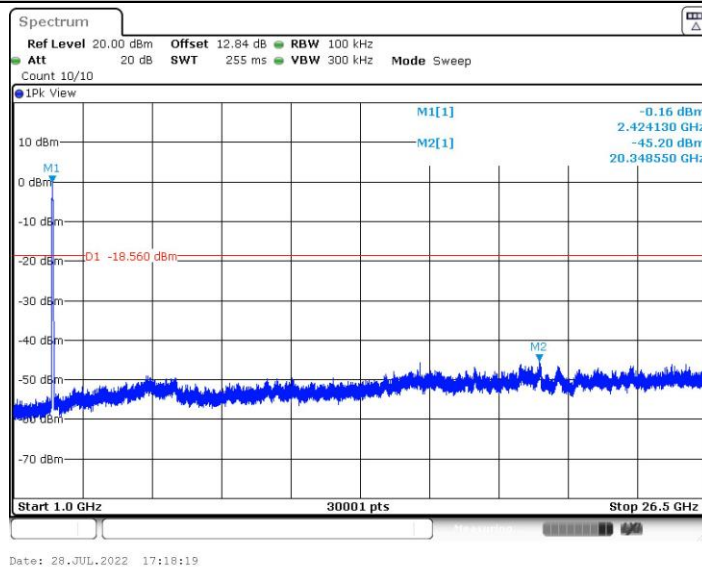




11AX40MIMO_Ant1_2422_30~1000

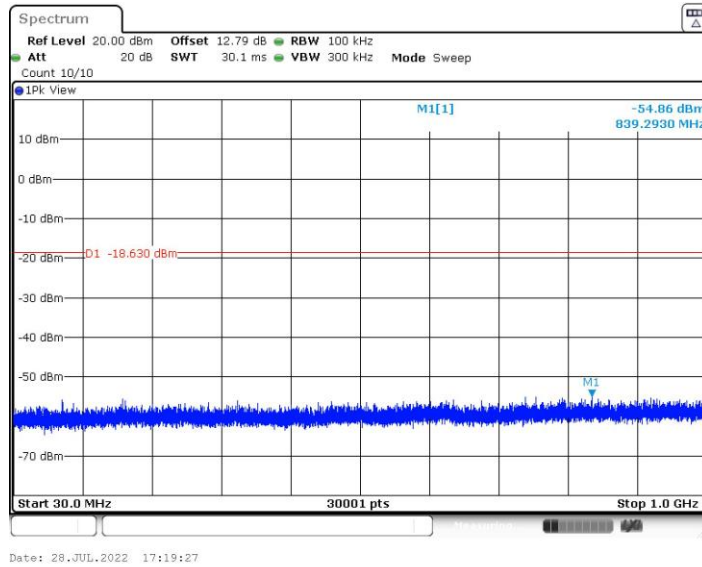


11AX40MIMO_Ant1_2422_1000~26500

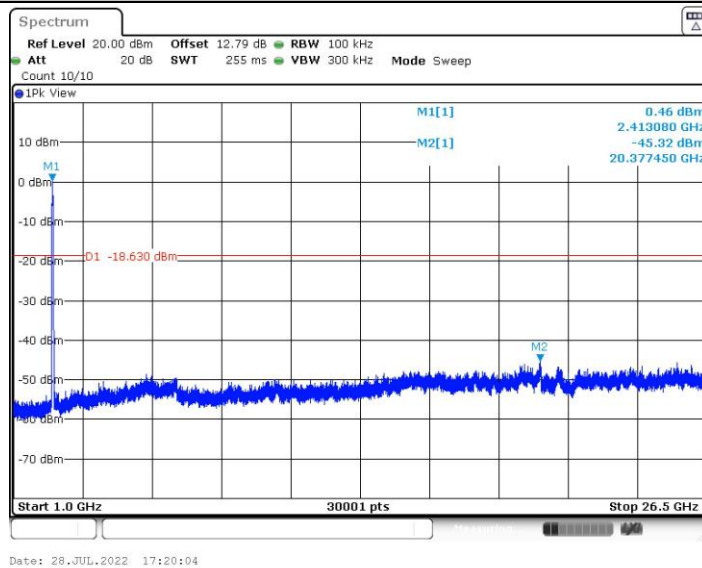




11AX40MIMO_Ant2_2422_30~1000

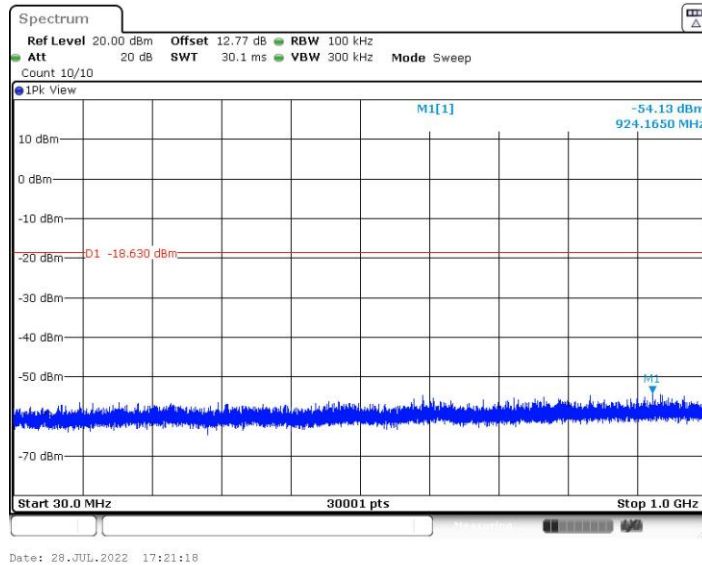


11AX40MIMO_Ant2_2422_1000~26500

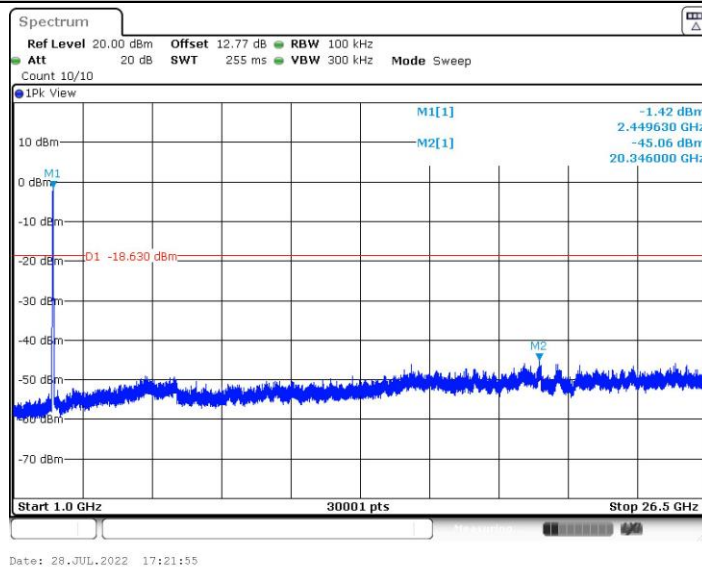




11AX40MIMO_Ant1_2437_30~1000

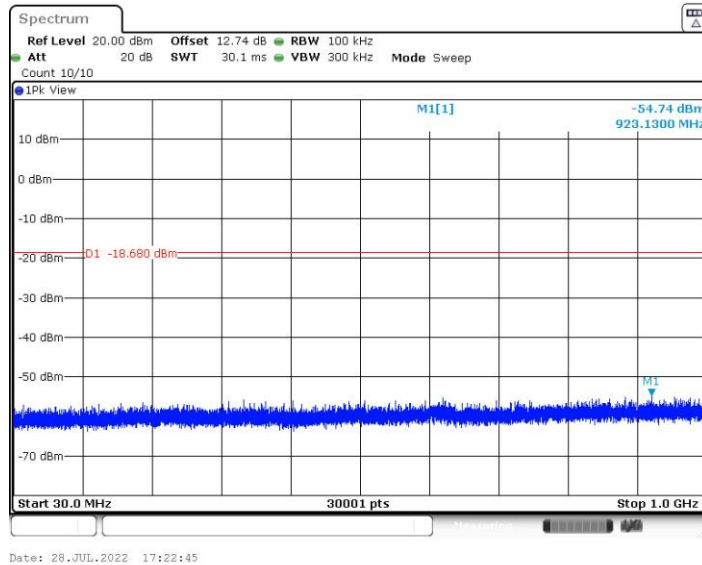


11AX40MIMO_Ant1_2437_1000~26500

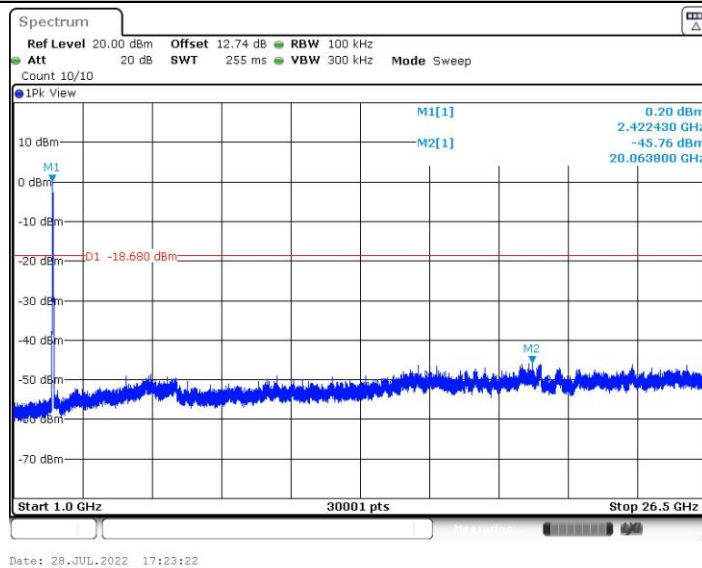




11AX40MIMO_Ant2_2437_30~1000

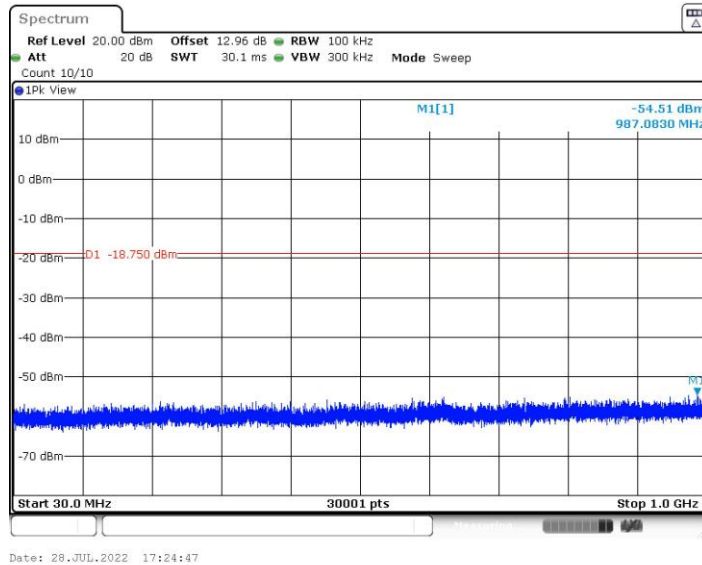


11AX40MIMO_Ant2_2437_1000~26500

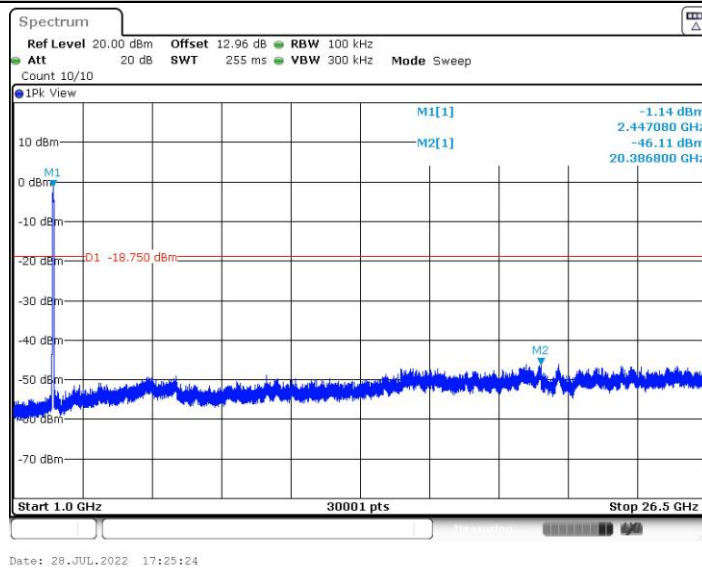




11AX40MIMO_Ant1_2452_30~1000

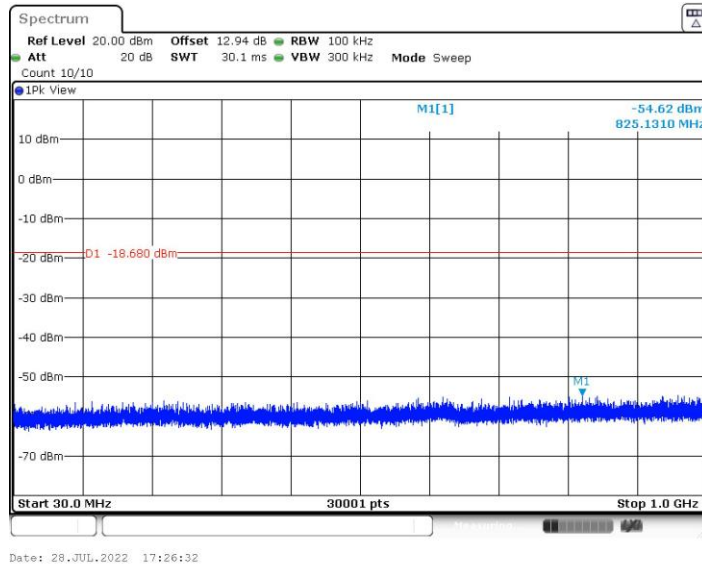


11AX40MIMO_Ant1_2452_1000~26500

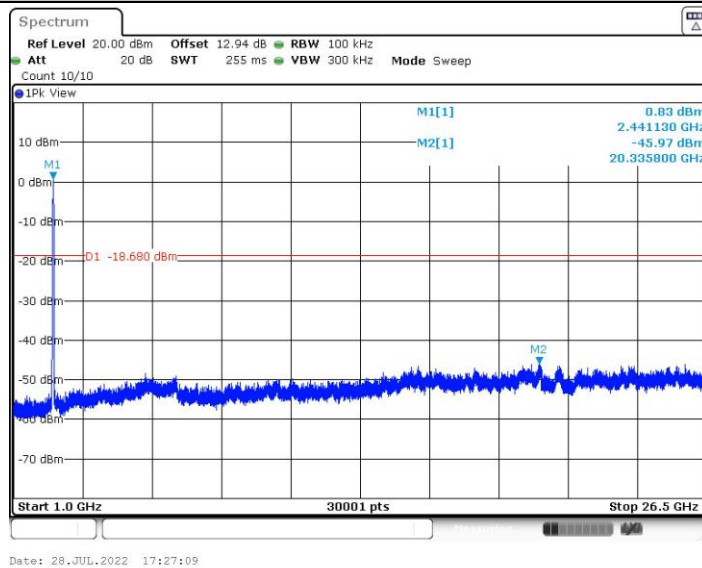




11AX40MIMO_Ant2_2452_30~1000



11AX40MIMO_Ant2_2452_1000~26500





Maximum Output Power

Peak Power

2.4GHz Band															
Mod.	Data Rate	RU Config	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	-	2	1	2412	19.11	18.80	21.97	30.00		-1.44		20.53	36.00	Pass
11b	1Mbps		2	6	2437	19.09	18.68	21.90	30.00		-1.44		20.46	36.00	Pass
11b	1Mbps		2	11	2462	19.40	18.63	22.04	30.00		-1.44		20.60	36.00	Pass
11g	6Mbps		2	1	2412	22.49	22.02	25.27	30.00		-1.44		23.83	36.00	Pass
11g	6Mbps		2	6	2437	23.11	22.81	25.97	30.00		-1.44		24.53	36.00	Pass
11g	6Mbps		2	10	2457	22.03	21.75	24.90	30.00		-1.44		23.46	36.00	Pass
11g	6Mbps		2	11	2462	20.33	19.95	23.15	30.00		-1.44		21.71	36.00	Pass
HT20	MCS0		2	1	2412	21.13	20.79	23.97	30.00		-1.44		22.53	36.00	Pass
HT20	MCS0		2	6	2437	21.72	21.33	24.54	30.00		-1.44		23.10	36.00	Pass
HT20	MCS0		2	11	2462	20.63	20.12	23.39	30.00		-1.44		21.95	36.00	Pass
HT40	MCS0		2	3	2422	18.49	18.49	21.50	30.00		-1.44		20.06	36.00	Pass
HT40	MCS0		2	6	2437	18.76	18.61	21.70	30.00		-1.44		20.26	36.00	Pass
HT40	MCS0		2	9	2452	17.22	17.13	20.19	30.00		-1.44		18.75	36.00	Pass
HE20	MCS0	full	2	1	2412	22.44	21.92	25.20	30.00		-1.44		23.76	36.00	Pass
HE20	MCS0	26	2	1	2412	16.13	16.72	19.45	30.00		-1.44		18.01	36.00	Pass
HE20	MCS0	52	2	1	2412	18.56	18.71	21.65	30.00		-1.44		20.21	36.00	Pass
HE20	MCS0	106	2	1	2412	19.96	20.23	23.11	30.00		-1.44		21.67	36.00	Pass
HE20	MCS0	full	2	6	2437	22.84	22.55	25.71	30.00		-1.44		24.27	36.00	Pass
HE20	MCS0	26	2	6	2437	16.86	17.68	20.30	30.00		-1.44		18.86	36.00	Pass
HE20	MCS0	52	2	6	2437	18.47	19.05	21.78	30.00		-1.44		20.34	36.00	Pass
HE20	MCS0	106	2	6	2437	19.75	20.43	23.11	30.00		-1.44		21.67	36.00	Pass
HE20	MCS0	full	2	11	2462	21.83	21.36	24.61	30.00		-1.44		23.17	36.00	Pass
HE20	MCS0	26	2	11	2462	14.61	15.32	17.99	30.00		-1.44		16.55	36.00	Pass
HE20	MCS0	52	2	11	2462	17.12	17.42	20.28	30.00		-1.44		18.84	36.00	Pass
HE20	MCS0	106	2	11	2462	18.97	19.09	22.04	30.00		-1.44		20.60	36.00	Pass
HE40	MCS0	full	2	3	2422	18.58	18.73	21.67	30.00		-1.44		20.23	36.00	Pass
HE40	MCS0	full	2	6	2437	18.85	18.63	21.75	30.00		-1.44		20.31	36.00	Pass
HE40	MCS0	full	2	9	2452	17.24	17.51	20.39	30.00		-1.44		18.95	36.00	Pass



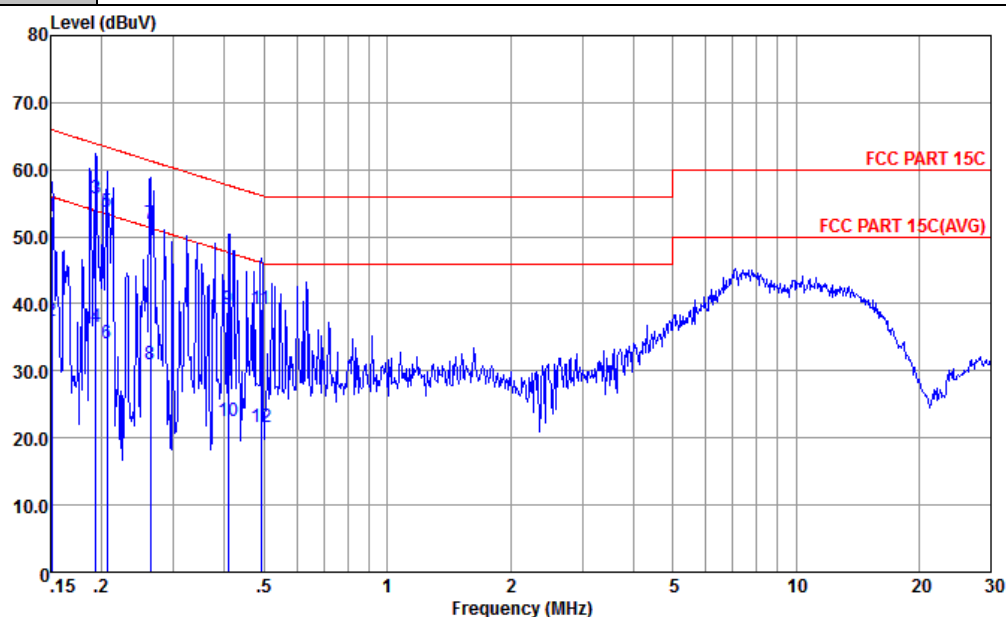
Average Output Power

2.4GHz Band										
Mod.	Data Rate	RU Config	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
						Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	-	2	1	2412	0.09	0.09	16.63	16.22	19.44
11b	1Mbps		2	6	2437	0.09	0.09	16.60	16.18	19.41
11b	1Mbps		2	11	2462	0.09	0.09	16.90	16.16	19.56
11g	6Mbps		2	1	2412	0.04	0.03	15.95	15.72	18.85
11g	6Mbps		2	6	2437	0.04	0.03	15.58	16.30	18.97
11g	6Mbps		2	10	2457	0.04	0.03	15.58	15.18	17.35
11g	6Mbps		2	11	2462	0.04	0.03	13.29	12.74	16.04
HT20	MCS0		2	1	2412	0.00	0.00	14.67	14.39	17.54
HT20	MCS0		2	6	2437	0.00	0.00	15.23	15.07	18.16
HT20	MCS0		2	11	2462	0.00	0.00	13.94	13.59	16.78
HT40	MCS0		2	3	2422	0.00	0.00	12.39	11.98	15.20
HT40	MCS0		2	6	2437	0.00	0.00	12.74	12.63	15.70
HT40	MCS0		2	9	2452	0.00	0.00	11.06	10.89	13.99
HE20	MCS0	full	2	1	2412	0.00	0.00	14.85	14.62	17.75
HE20	MCS0	26	2	1	2412	0.00	0.00	6.26	6.52	9.40
HE20	MCS0	52	2	1	2412	0.00	0.00	9.24	8.85	12.06
HE20	MCS0	106	2	1	2412	0.00	0.00	11.21	10.96	14.10
HE20	MCS0	full	2	6	2437	0.00	0.00	15.41	15.23	18.33
HE20	MCS0	26	2	6	2437	0.00	0.00	6.89	7.44	10.18
HE20	MCS0	52	2	6	2437	0.00	0.00	9.23	9.36	12.31
HE20	MCS0	106	2	6	2437	0.00	0.00	11.38	11.55	14.48
HE20	MCS0	full	2	11	2462	0.00	0.00	14.14	13.64	16.91
HE20	MCS0	26	2	11	2462	0.00	0.00	4.43	4.97	7.72
HE20	MCS0	52	2	11	2462	0.00	0.00	7.18	7.37	10.29
HE20	MCS0	106	2	11	2462	0.00	0.00	9.78	10.03	12.92
HE40	MCS0	full	2	3	2422	0.00	0.00	12.44	12.05	15.26
HE40	MCS0	full	2	6	2437	0.00	0.00	12.85	12.68	15.78
HE40	MCS0	full	2	9	2452	0.00	0.00	11.07	11.01	14.05



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		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.		

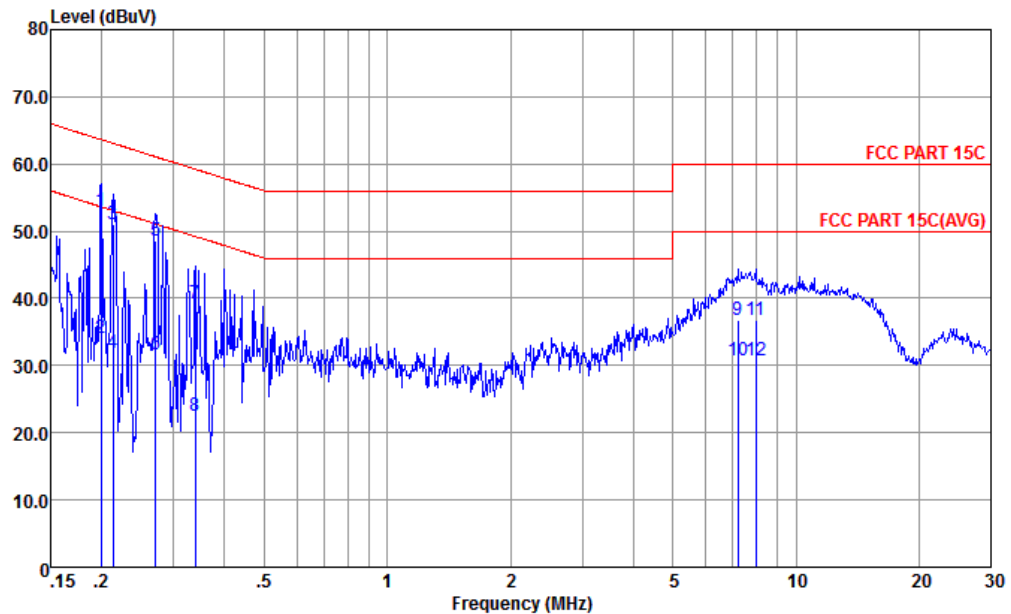


Site : CO01-KS
Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.151	53.00	-12.96	65.96	42.50	0.02	10.48	QP
2	0.151	37.40	-18.56	55.96	26.90	0.02	10.48	Average
3 *	0.193	55.62	-8.27	63.89	45.20	0.04	10.38	QP
4	0.193	36.62	-17.27	53.89	26.20	0.04	10.38	Average
5	0.206	53.70	-9.66	63.36	43.30	0.04	10.36	QP
6	0.206	34.00	-19.36	53.36	23.60	0.04	10.36	Average
7	0.263	51.89	-9.45	61.34	41.50	0.06	10.33	QP
8	0.263	30.99	-20.35	51.34	20.60	0.06	10.33	Average
9	0.408	39.15	-18.53	57.68	28.80	0.09	10.26	QP
10	0.408	22.55	-25.13	47.68	12.20	0.09	10.26	Average
11	0.491	39.14	-17.00	56.14	28.80	0.10	10.24	QP
12	0.491	21.54	-24.60	46.14	11.20	0.10	10.24	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		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	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.200	53.06	-10.56	63.62	42.60	0.10	10.36	QP
2	0.200	34.06	-19.56	53.62	23.60	0.10	10.36	Average
3	0.213	50.96	-12.14	63.10	40.50	0.10	10.36	QP
4	0.213	31.96	-21.14	53.10	21.50	0.10	10.36	Average
5	0.272	48.62	-12.45	61.07	38.20	0.10	10.32	QP
6	0.272	31.62	-19.45	51.07	21.20	0.10	10.32	Average
7	0.339	39.19	-20.03	59.22	28.80	0.10	10.29	QP
8	0.339	22.59	-26.63	49.22	12.20	0.10	10.29	Average
9	7.213	36.71	-23.29	60.00	26.20	0.20	10.31	QP
10	7.213	30.71	-19.29	50.00	20.20	0.20	10.31	Average
11	7.977	36.73	-23.27	60.00	26.20	0.21	10.32	QP
12	7.977	30.83	-19.17	50.00	20.30	0.21	10.32	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 Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
CDD 15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2386.57	49.11	-24.89	74	45.99	32.88	7.1	36.86	100	153	P	H
		2386.7	40.95	-13.05	54	37.83	32.88	7.1	36.86	100	153	A	H
	*	2414	101.63	-	-	98.45	32.9	7.13	36.85	100	153	P	H
	*	2412	99.41	-	-	96.23	32.9	7.13	36.85	100	153	A	H
		2386.57	51.44	-22.56	74	48.32	32.88	7.1	36.86	122	299	P	V
		2386.57	44.36	-9.64	54	41.24	32.88	7.1	36.86	122	299	A	V
	*	2412	105.84	-	-	102.66	32.9	7.13	36.85	122	299	P	V
	*	2412	103.26	-	-	100.08	32.9	7.13	36.85	122	299	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.
CDD 15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4830	40.2	-33.8	74	61.13	34.2	10.25	65.38	300	0	P	H
		4830	40.85	-33.15	74	61.78	34.2	10.25	65.38	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 15+16				(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 11 2462MHz	*	2460	103.44	-	-	100.09	32.96	7.22	36.83	304	48	P	H
	*	2456	95.78	-	-	92.43	32.96	7.22	36.83	304	48	A	H
		2485	59.58	-14.42	74	56.17	32.98	7.25	36.82	304	48	P	H
		2484.34	47.19	-6.81	54	43.78	32.98	7.25	36.82	304	48	A	H
	*	2456	104.67	-	-	101.32	32.96	7.22	36.83	100	114	P	V
	*	2456	96.96	-	-	93.61	32.96	7.22	36.83	100	114	A	V
		2484.16	62.05	-11.95	74	58.64	32.98	7.25	36.82	100	114	P	V
		2484.1	50.1	-3.9	54	46.69	32.98	7.25	36.82	100	114	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 15+16				(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 11 2462MHz		4920	39.79	-34.21	74	60.64	34.26	10.34	65.45	300	0	P	H
		7380	42.66	-31.34	74	60.16	35.88	12.73	66.11	300	0	P	H
		4920	40.6	-33.4	74	61.45	34.26	10.34	65.45	100	0	P	V
		7380	41.78	-32.22	74	59.28	35.88	12.73	66.11	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. CDD 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	*	2456	106.03	-	-	102.68	32.96	7.22	36.83	304	55	P	H
	*	2458	97.38	-	-	94.03	32.96	7.22	36.83	304	55	A	H
		2483.68	60.89	-13.11	74	57.48	32.98	7.25	36.82	304	55	P	H
		2483.5	48.58	-5.42	54	45.17	32.98	7.25	36.82	304	55	A	H
	*	2458	107.02	-	-	103.67	32.96	7.22	36.83	100	72	P	V
	*	2458	97.94	-	-	94.59	32.96	7.22	36.83	100	72	A	V
		2484.64	59.33	-14.67	74	55.92	32.98	7.25	36.82	100	72	P	V
		2483.5	50.36	-3.64	54	46.95	32.98	7.25	36.82	100	72	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. CDD 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		4920	41.51	-32.49	74	62.36	34.26	10.34	65.45	300	0	P	H
		7380	41.93	-32.07	74	59.43	35.88	12.73	66.11	300	0	P	H
		4920	40.25	-33.75	74	61.1	34.26	10.34	65.45	100	0	P	V
		7380	42.29	-31.71	74	59.79	35.88	12.73	66.11	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 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. CDD 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		2488.12	49.43	-24.57	74	45.99	33	7.25	36.81	208	52	P	H
		2484.22	37.99	-16.01	54	34.58	32.98	7.25	36.82	208	52	A	H
		2470	105.49	-	-	102.14	32.96	7.22	36.83	208	52	P	H
		2470	96.32	-	-	92.97	32.96	7.22	36.83	208	52	A	H
		2499.52	49.3	-24.7	74	45.83	33	7.28	36.81	124	59	P	V
		2484.04	37.95	-16.05	54	34.54	32.98	7.25	36.82	124	59	A	V
		2470	106.12	-	-	102.77	32.96	7.22	36.83	124	59	P	V
		2470	96.82	-	-	93.47	32.96	7.22	36.83	124	59	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 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI Ant. CDD 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 52/40 CH 11 2462MHz		2483.62	53.14	-20.86	74	49.73	32.98	7.25	36.82	294	48	P	H
		2484.28	38.17	-15.83	54	34.76	32.98	7.25	36.82	294	48	A	H
		2470	105.42	-	-	102.07	32.96	7.22	36.83	294	48	P	H
		2468	96.07	-	-	92.72	32.96	7.22	36.83	294	48	A	H
		2483.62	52.12	-21.88	74	48.71	32.98	7.25	36.82	123	61	P	V
		2484.04	38.15	-15.85	54	34.74	32.98	7.25	36.82	123	61	A	V
		2468	107.22	-	-	103.87	32.96	7.22	36.83	123	61	P	V
		2468	97.63	-	-	94.28	32.96	7.22	36.83	123	61	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 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 15+16				(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Partial 106/54 CH 11 2462MHz		2483.5	59.51	-14.49	74	56.1	32.98	7.25	36.82	294	47	P	H
		2483.5	38.68	-15.32	54	35.27	32.98	7.25	36.82	294	47	A	H
		2468	105.58	-	-	102.23	32.96	7.22	36.83	294	47	P	H
		2468	95.59	-	-	92.24	32.96	7.22	36.83	294	47	A	H
		2483.56	58.18	-15.82	74	54.77	32.98	7.25	36.82	124	59	P	V
		2483.62	38.49	-15.51	54	35.08	32.98	7.25	36.82	124	59	A	V
		2470	106.28	-	-	102.93	32.96	7.22	36.83	124	59	P	V
		2468	97.08	-	-	93.73	32.96	7.22	36.83	124	59	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full CH 06 2437MHz		2389.69	52.42	-21.58	74	49.3	32.88	7.1	36.86	271	129	P	H
		2389.95	41.66	-12.34	54	38.54	32.88	7.1	36.86	271	129	A	H
	*	2432	102.08	-	-	98.85	32.92	7.16	36.85	271	129	P	H
	*	2422	92.41	-	-	89.18	32.92	7.16	36.85	271	129	A	H
		2483.62	59.1	-14.9	74	55.69	32.98	7.25	36.82	271	129	P	H
		2483.5	47.17	-6.83	54	43.76	32.98	7.25	36.82	271	129	A	H
		2389.82	53.56	-20.44	74	50.44	32.88	7.1	36.86	100	68	P	V
		2389.95	42.66	-11.34	54	39.54	32.88	7.1	36.86	100	68	A	V
	*	2434	103.9	-	-	100.67	32.92	7.16	36.85	100	68	P	V
	*	2424	94.37	-	-	91.14	32.92	7.16	36.85	100	68	A	V
		2484.46	64.4	-9.6	74	60.99	32.98	7.25	36.82	100	68	P	V
		2483.5	50.3	-3.7	54	46.89	32.98	7.25	36.82	100	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 HE40 Full (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)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
CDD 15+16													
802.11ax		4875	40.78	-33.22	74	61.68	34.23	10.29	65.42	300	0	P	H
HE40 Full		7305	42.27	-31.73	74	59.6	35.86	12.72	65.91	300	0	P	H
CH 06		4875	40.09	-33.91	74	60.99	34.23	10.29	65.42	100	0	P	V
2437MHz		7305	42.61	-31.39	74	59.94	35.86	12.72	65.91	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 802.11ax HE20 (LF)

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)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
CDD 15+16													
2.4GHz 802.11ax HE20 LF		64.92	17.96	-22.04	40	36.55	13.3	1.21	33.1	-	-	P	H
		191.99	24.21	-19.29	43.5	38.66	16.49	2.11	33.05	-	-	P	H
		302.57	26.33	-19.67	46	36.31	20.27	2.65	32.9	-	-	P	H
		432.55	26.62	-19.38	46	32.89	23.29	3.17	32.73	-	-	P	H
		560.59	27.51	-18.49	46	30.66	25.82	3.61	32.58	-	-	P	H
		800.18	29.28	-16.72	46	30.56	26.9	4.32	32.5	-	-	P	H
		48.43	21.62	-18.38	40	37.77	15.77	1.05	32.97	-	-	P	V
		232.73	20.17	-25.83	46	32.61	18.33	2.33	33.1	-	-	P	V
		399.57	25.36	-20.64	46	32.41	22.7	3.05	32.8	-	-	P	V
		571.26	27.44	-18.56	46	30.62	25.73	3.65	32.56	-	-	P	V
		665.35	29.92	-16.08	46	32.87	25.84	3.94	32.73	-	-	P	V
		778.84	30.55	-15.45	46	32.13	26.73	4.27	32.58	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Co-location

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full&LTE Band41 BW=20M (Band Edge @ 3m)

WIFI Ant. CDD 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	*	2483.8	61.53	-12.47	74	58.12	32.98	7.25	36.82	112	37	P	H
	*	2483.5	49.82	-4.18	54	46.41	32.98	7.25	36.82	112	37	A	H
		2462	106.54	-	-	103.19	32.96	7.22	36.83	112	37	P	H
		2460	96.54	-	-	93.19	32.96	7.22	36.83	112	37	A	H
	*	2483.92	60.13	-13.87	74	56.72	32.98	7.25	36.82	100	112	P	V
	*	2483.5	48.63	-5.37	54	45.22	32.98	7.25	36.82	100	112	A	V
		2458	106.95	-	-	103.6	32.96	7.22	36.83	100	112	P	V
		2458	99.19	-	-	95.84	32.96	7.22	36.83	100	112	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&LTE Band41 BW=20M (Harmonic @ 3m)

WIFI Ant. CDD 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		4920	40.16	-33.84	74	61.01	34.26	10.34	65.45	300	0	P	H
		7380	41.94	-32.06	74	59.44	35.88	12.73	66.11	300	0	P	H
		4920	41.02	-32.98	74	61.87	34.26	10.34	65.45	100	0	P	V
		7380	41.56	-32.44	74	59.06	35.88	12.73	66.11	100	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.	
CDD 15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. 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:

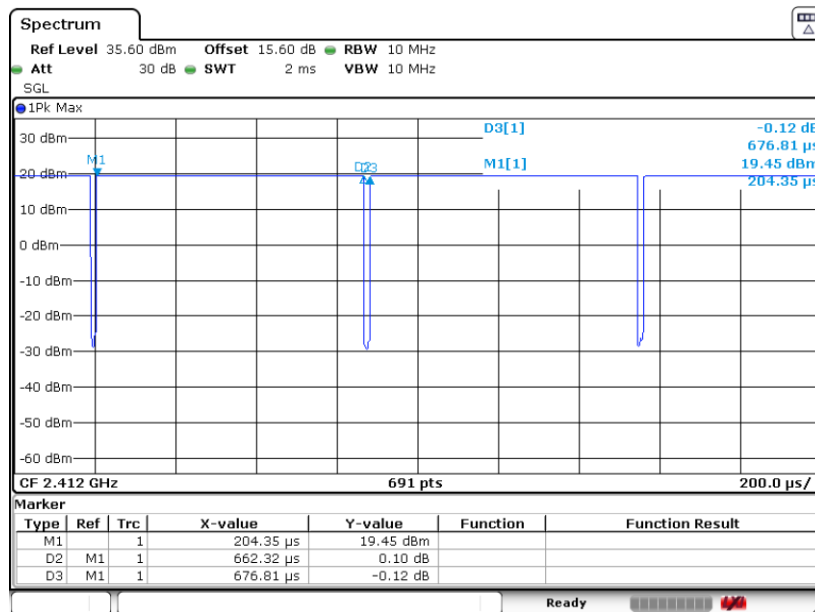
1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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	97.86	0.662	1.510	1.51Hz
802.11g	98.97	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz
802.11axHE20-2412-26ru	100	-	-	10Hz
802.11axHE20-2412-52ru	100	-	-	10Hz
802.11axHE20-2412-106ru	100	-	-	10Hz

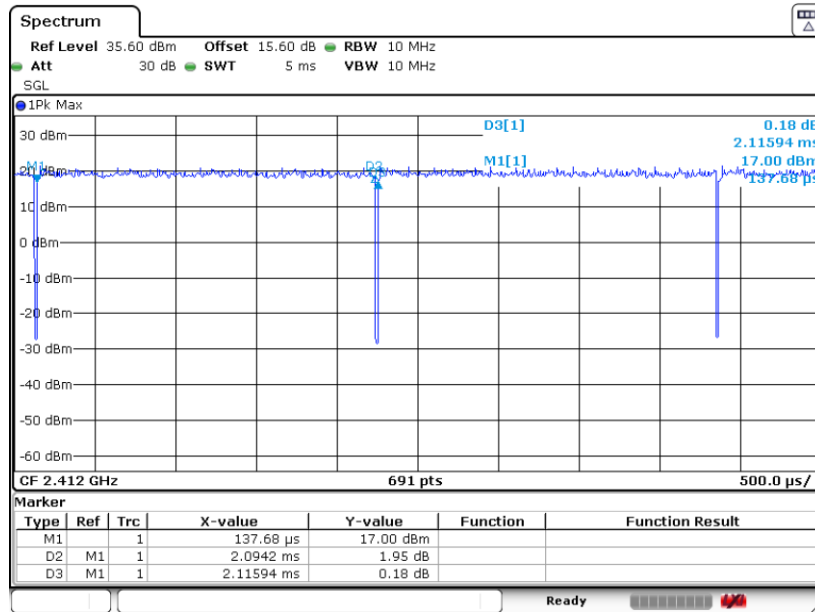
802.11b



Date: 14.JUL.2022 13:49:54

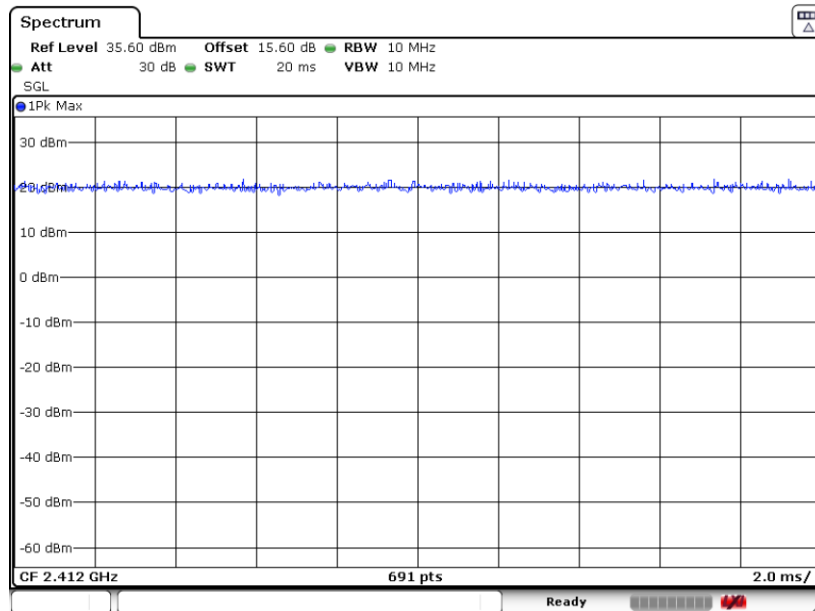


802.11g



Date: 14.JUL.2022 13:41:42

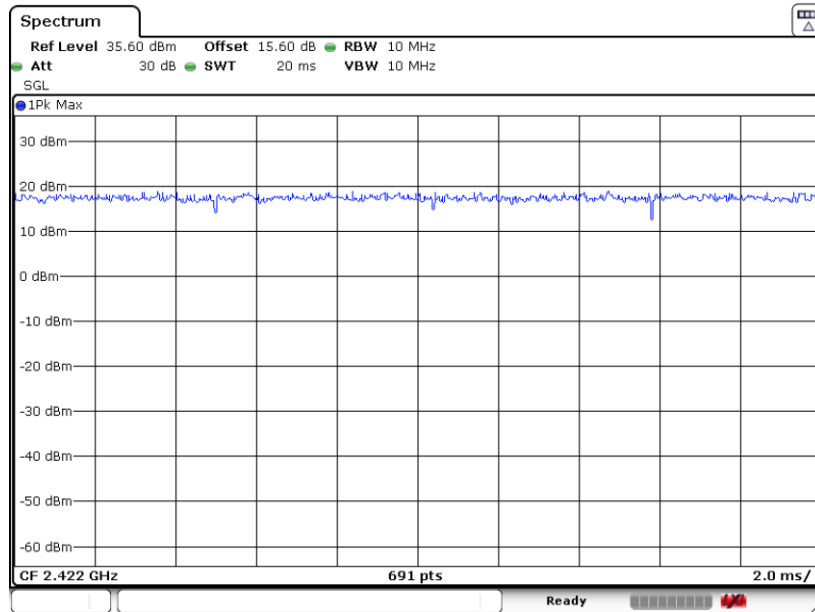
802.11ax HE20



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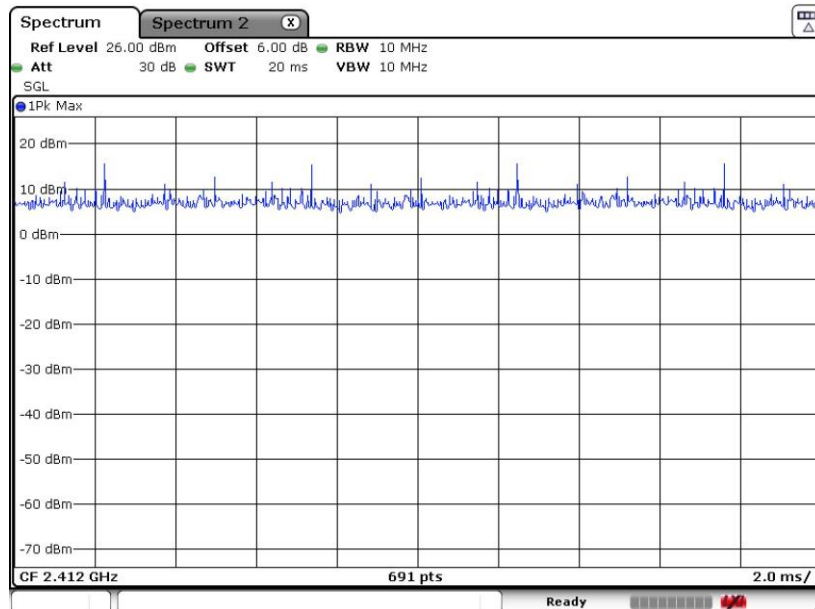


802.11ax HE40



Date: 14.JUL.2022 13:56:25

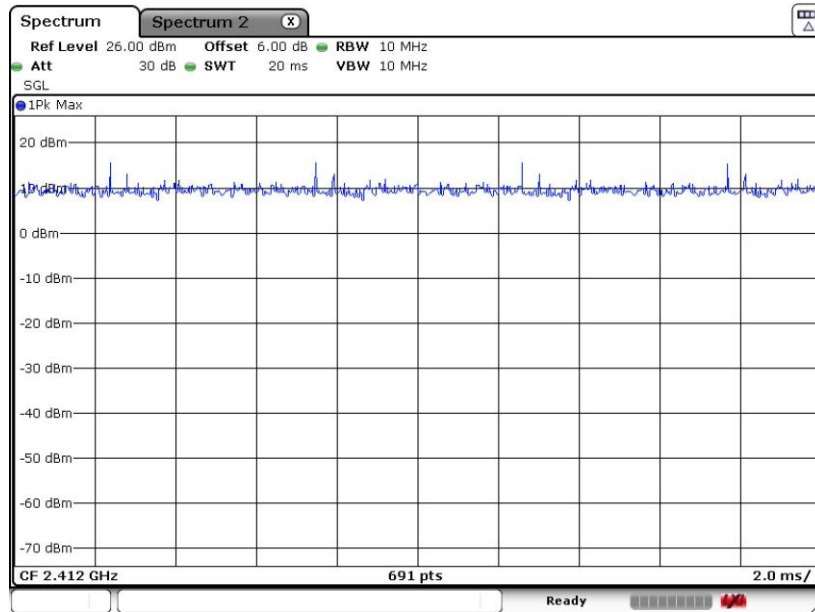
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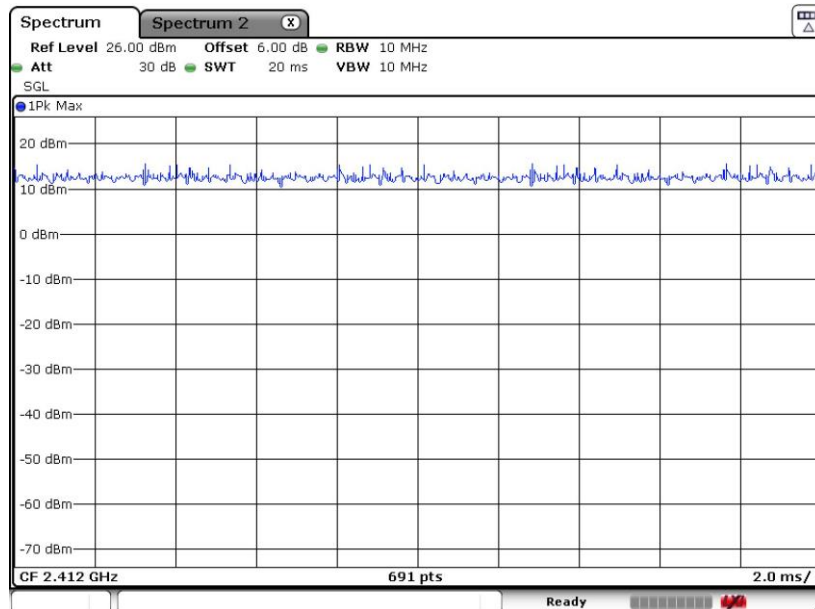


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Date: 11.AUG.2022 13:44:22