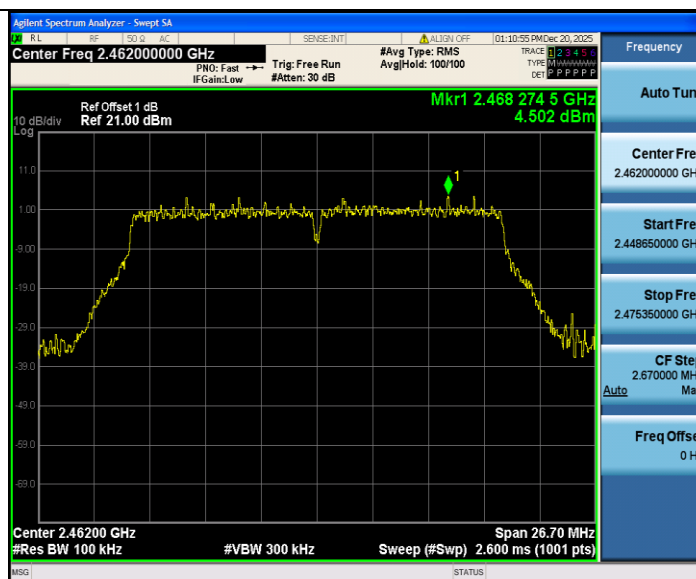
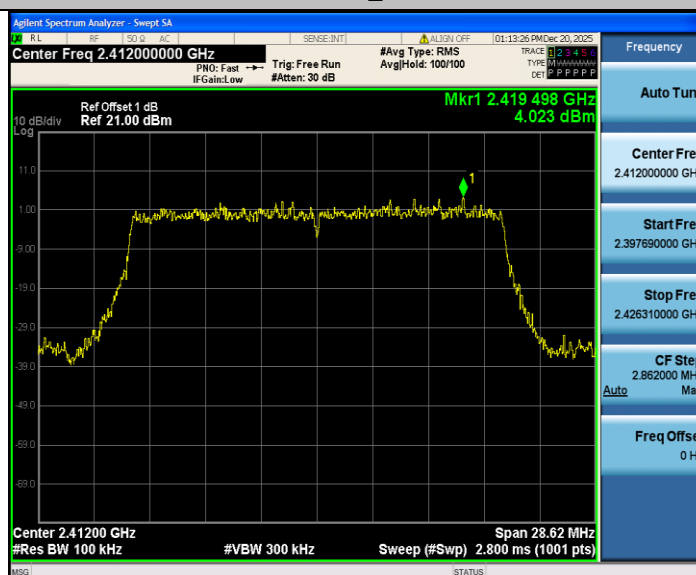
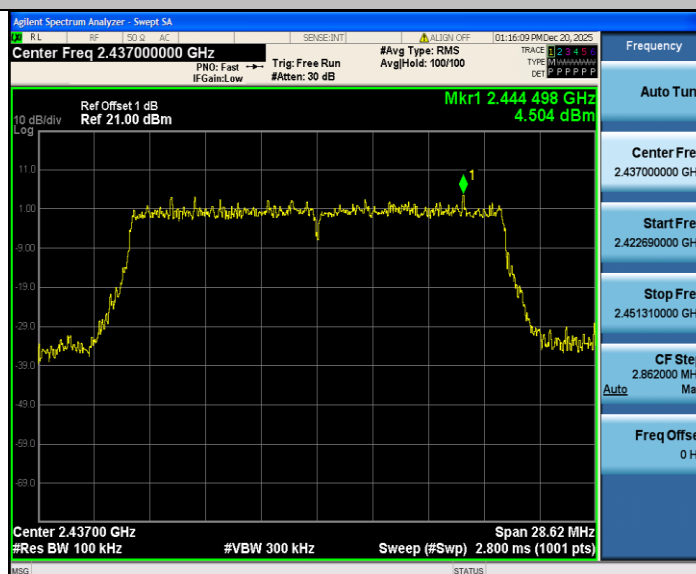




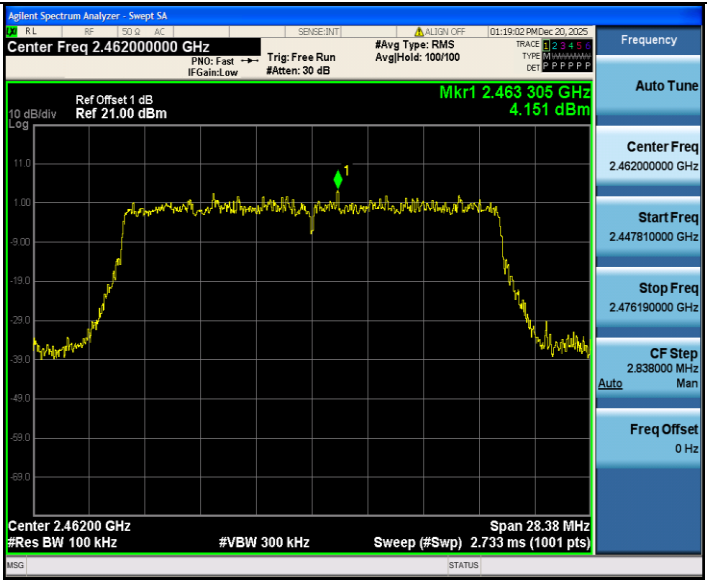
11AX20_2412



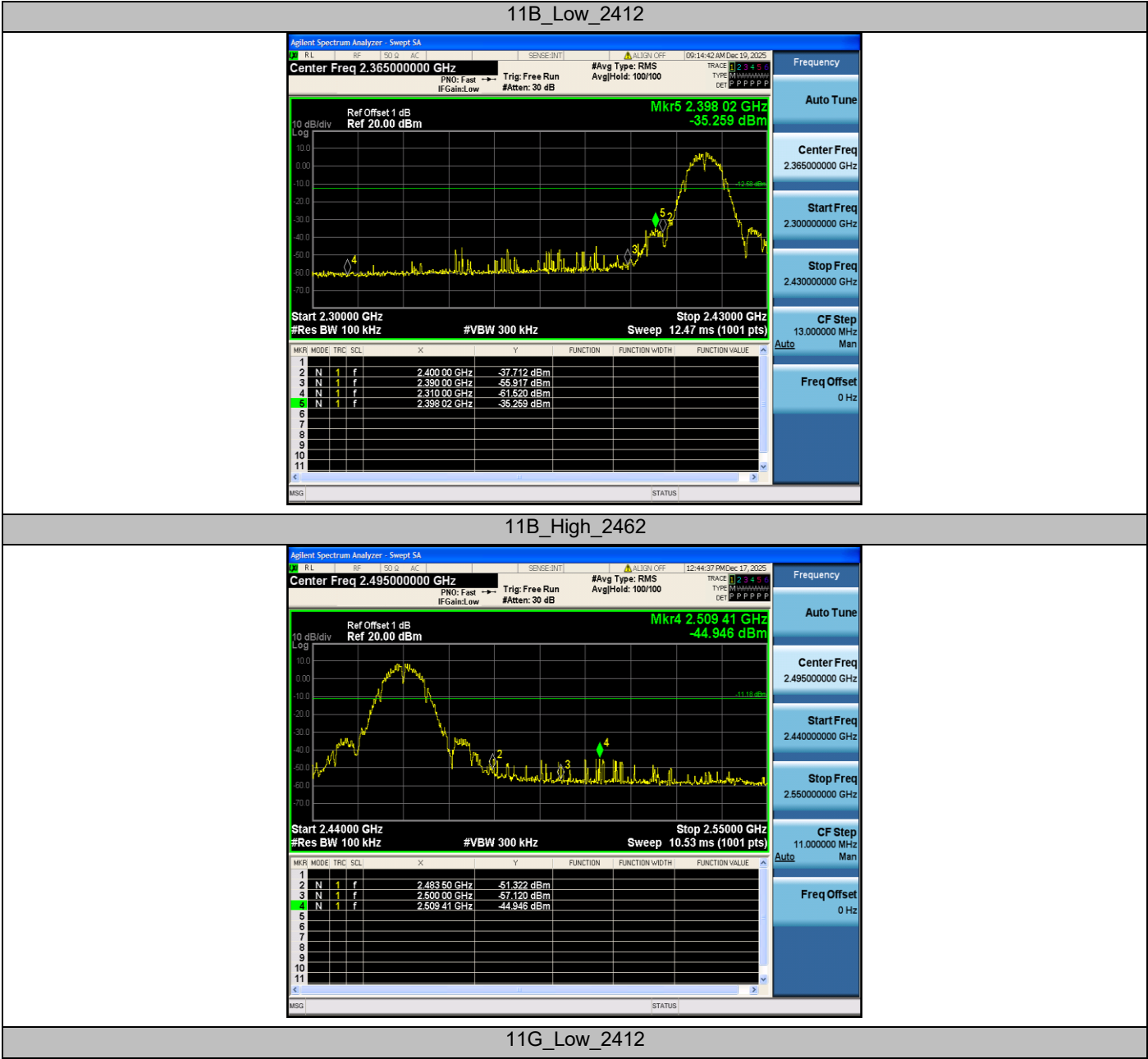
11AX20_2437

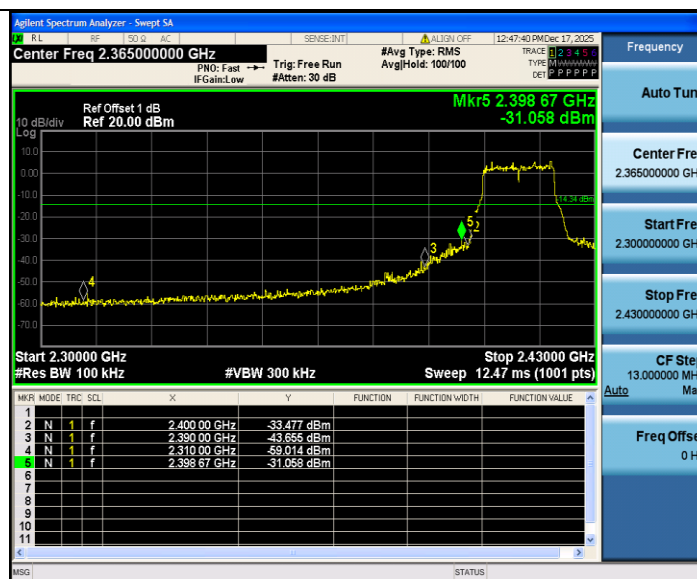


11AX20_2462



Band edge measurements
Test Graphs

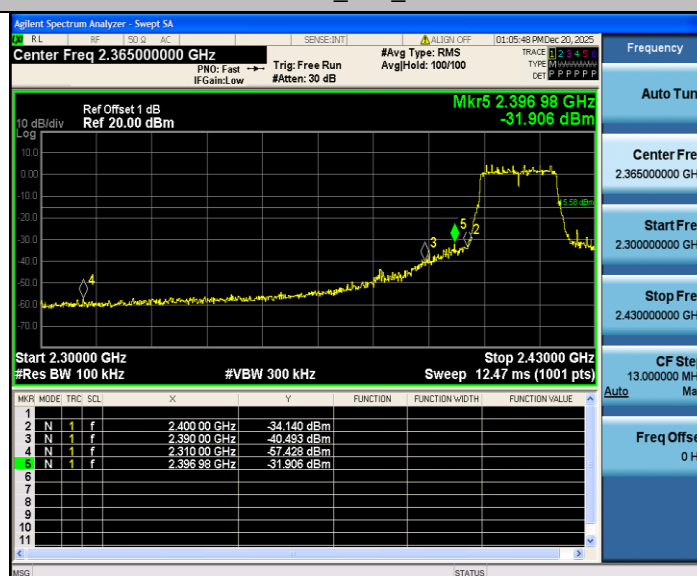




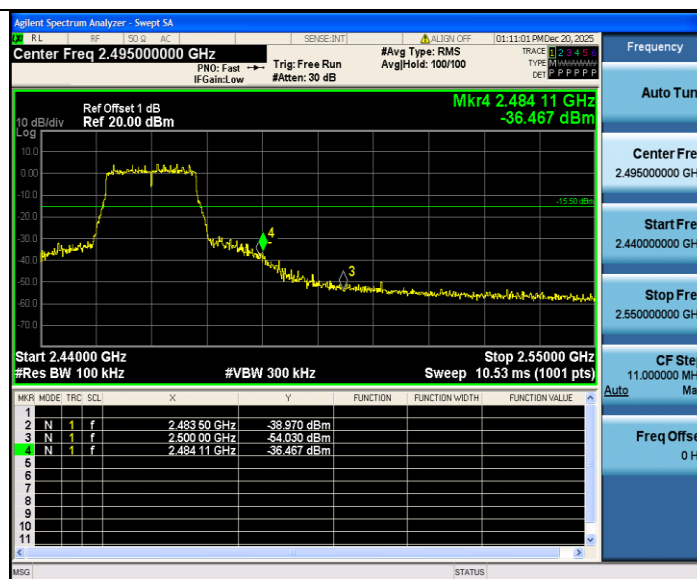
11G_High_2462



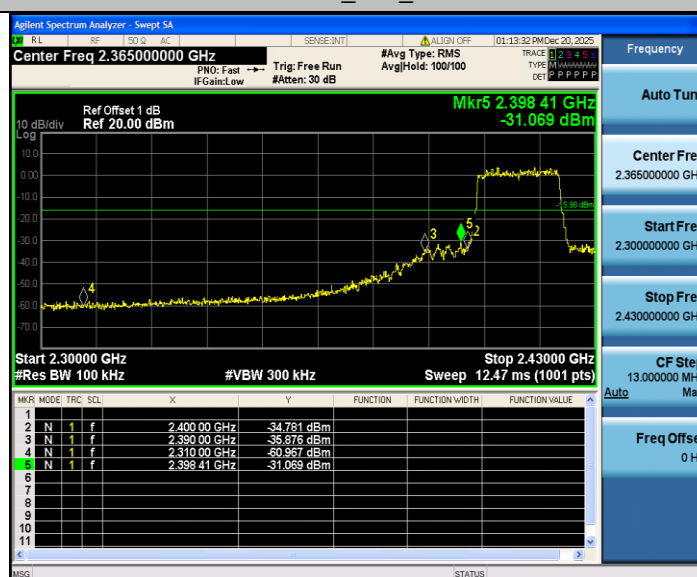
11N20_Low_2412



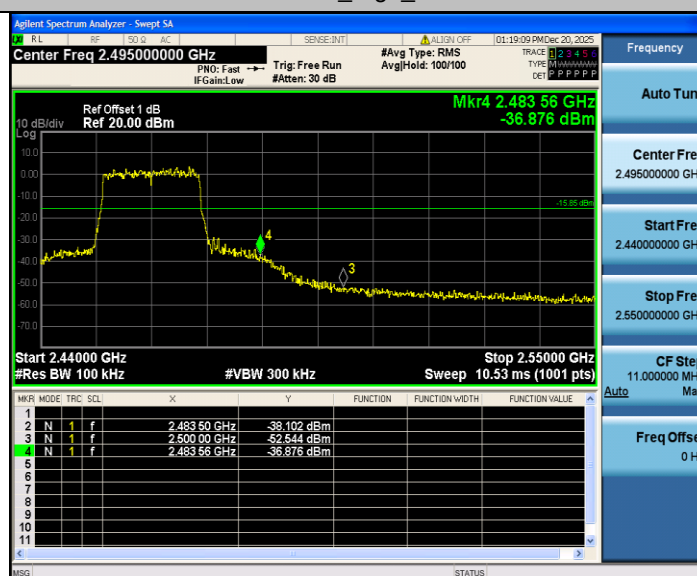
11N20_High_2462



11AX20_Low_2412

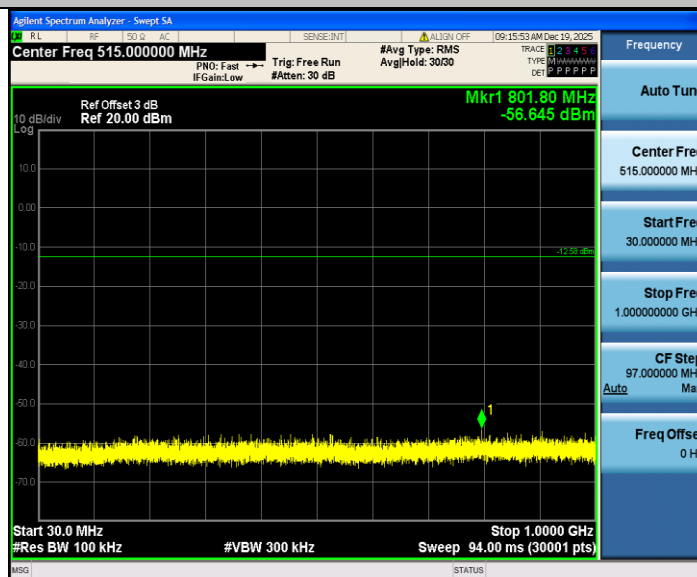


11AX20_High_2462

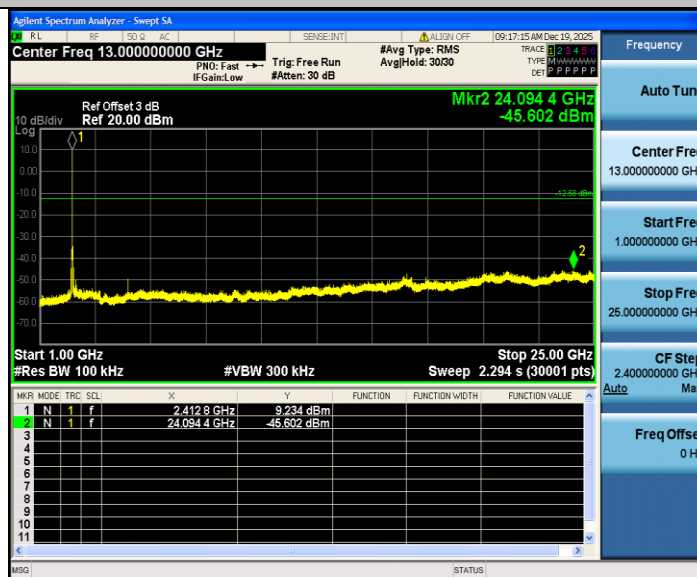


Conducted Spurious Emission Test Graphs

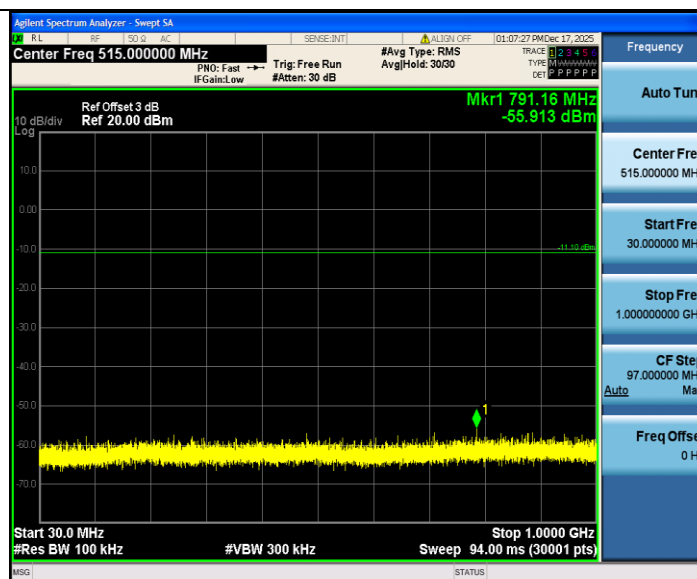
11B_2412_30~1000



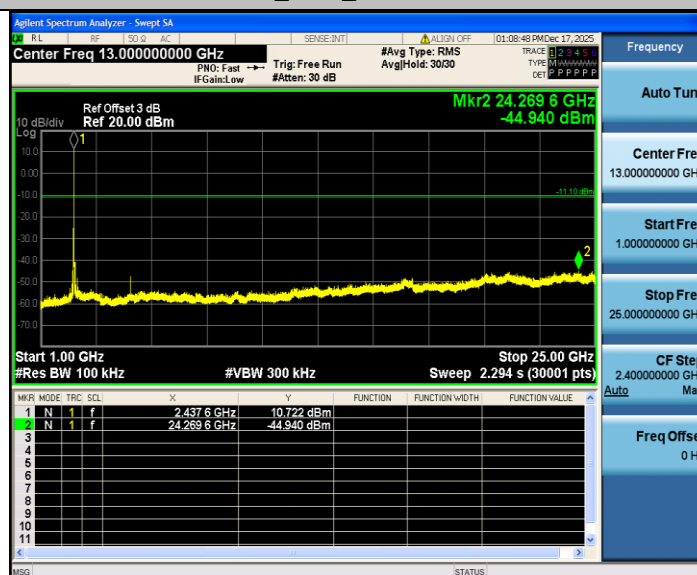
11B_2412_1000~25000



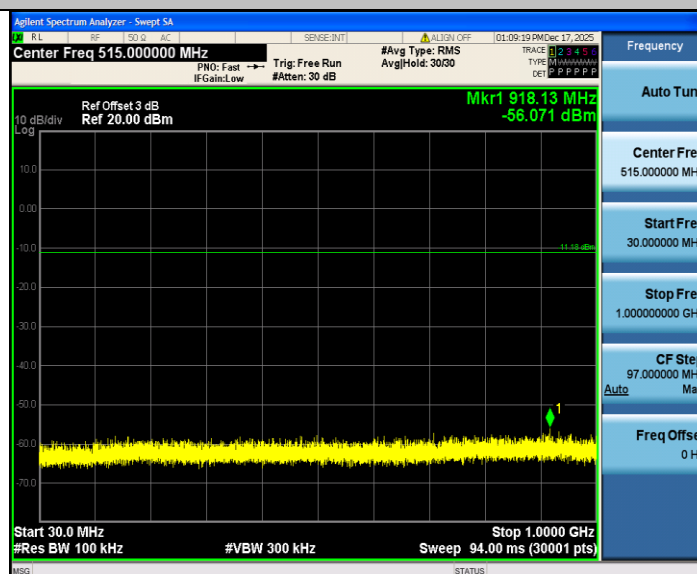
11B_2437_30~1000



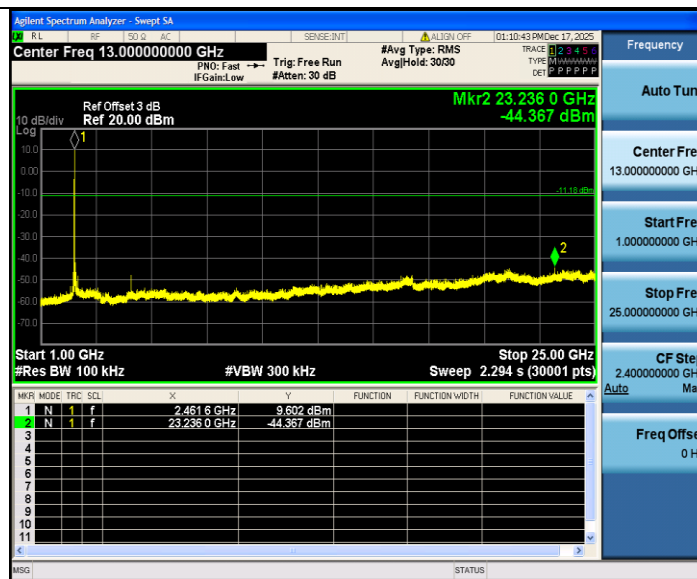
11B_2437_1000~25000



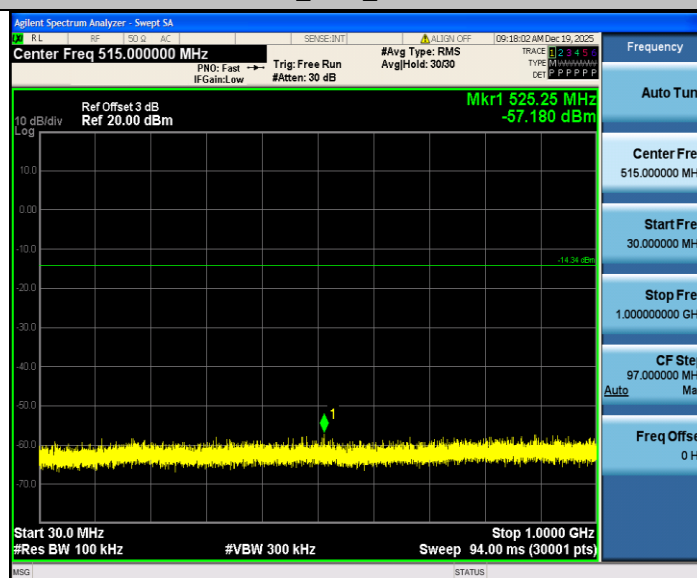
11B_2462_30~1000



11B_2462_1000~25000



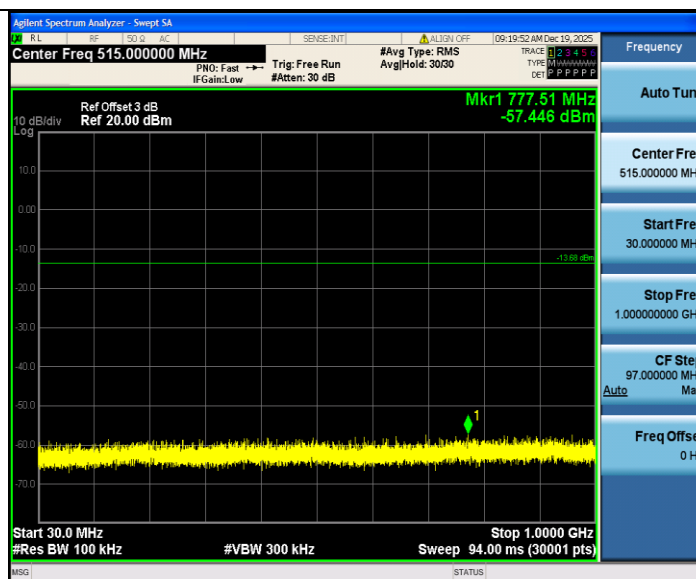
11G_2412_30~1000



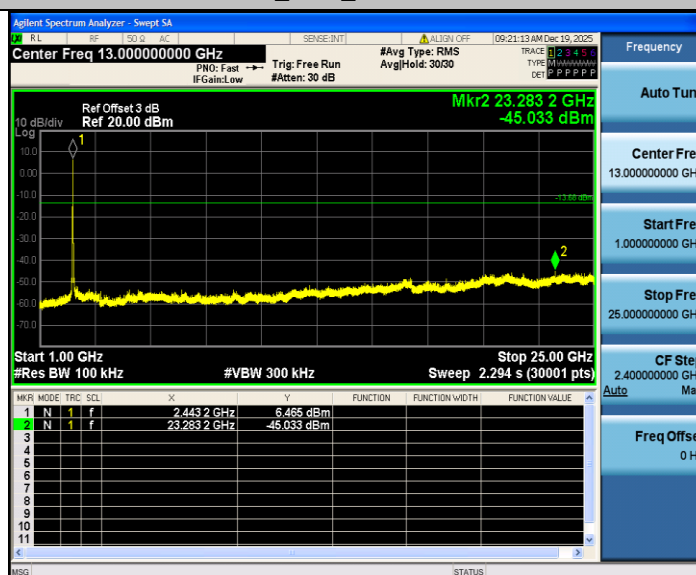
11G_2412_1000~25000



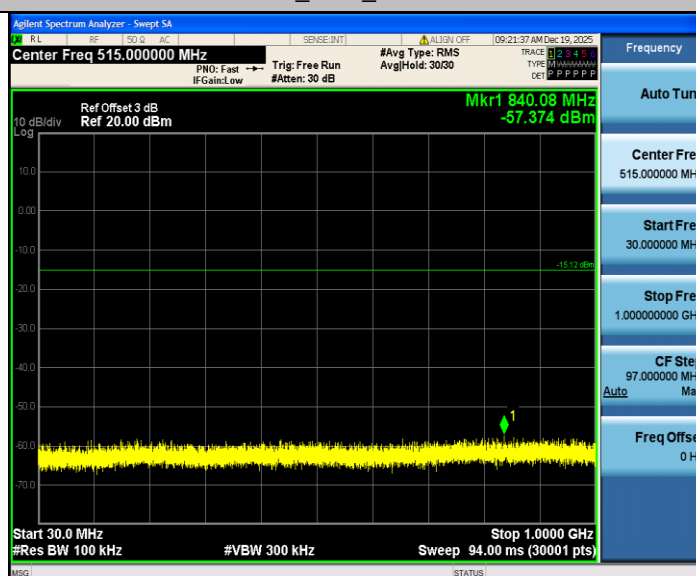
11G_2437_30~1000



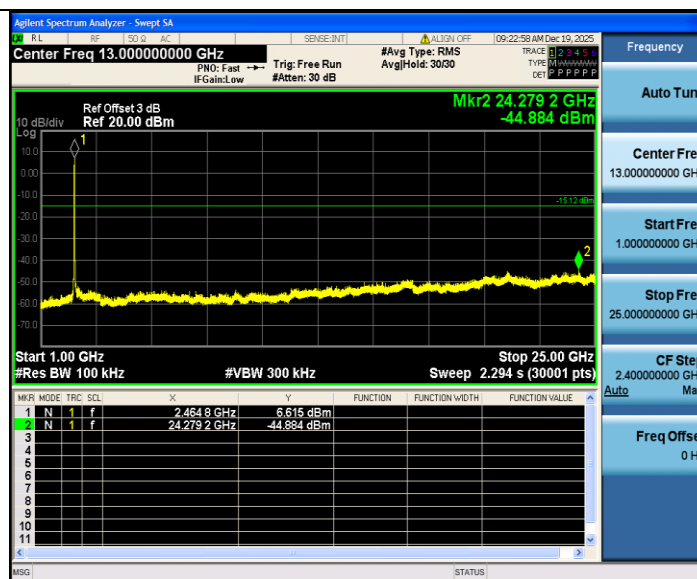
11G_2437_1000~25000



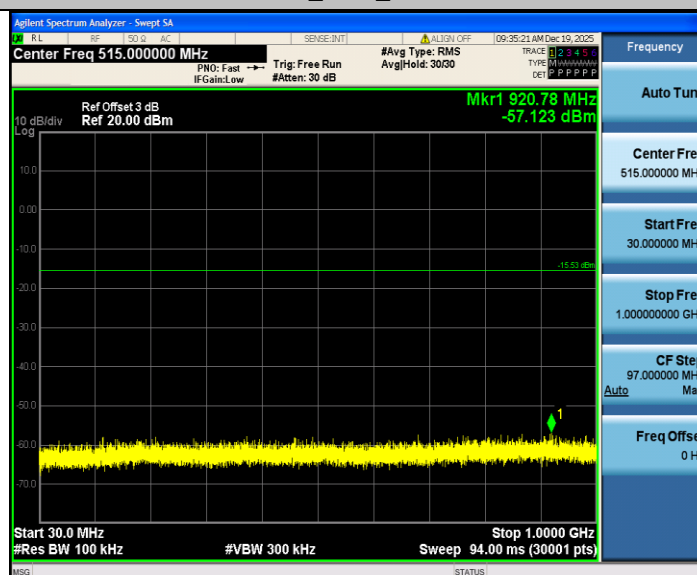
11G_2462_30~1000



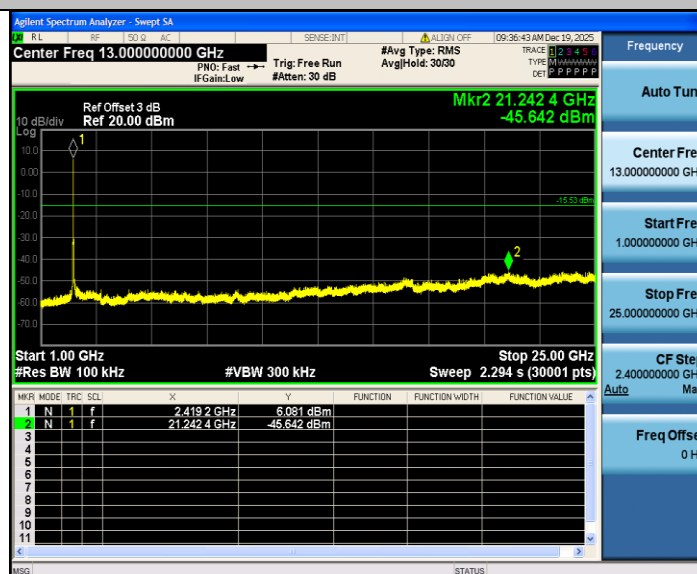
11G_2462_1000~25000



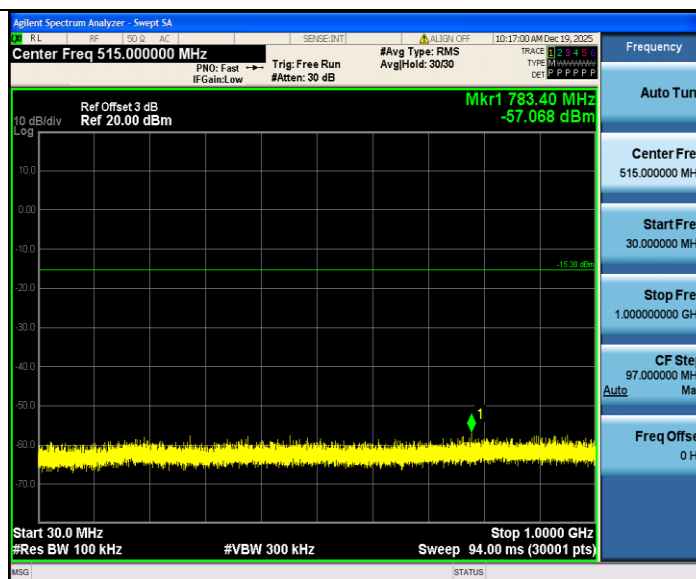
11N20_2412_30~1000



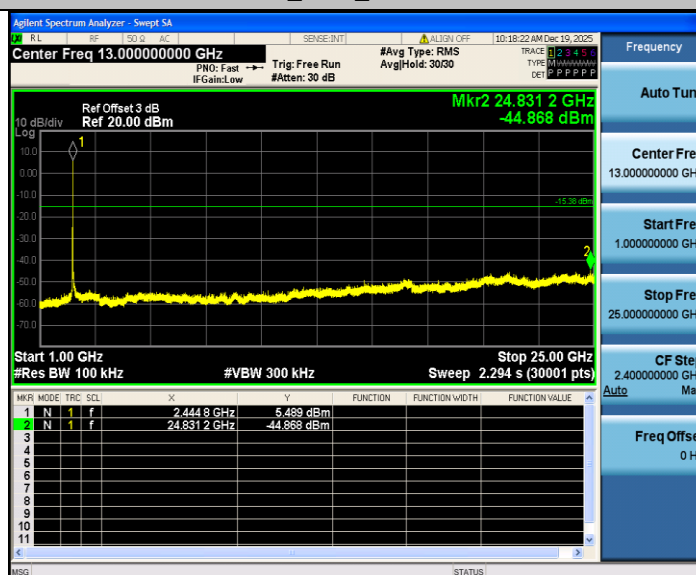
11N20_2412_1000~25000



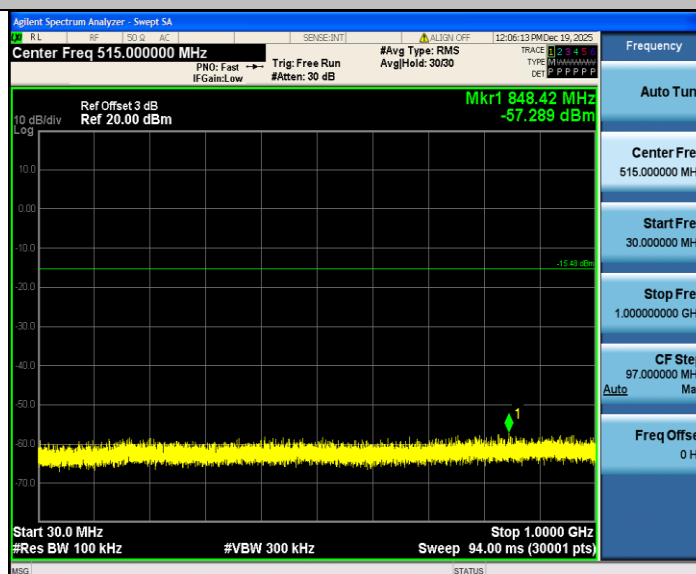
11N20_2437_30~1000



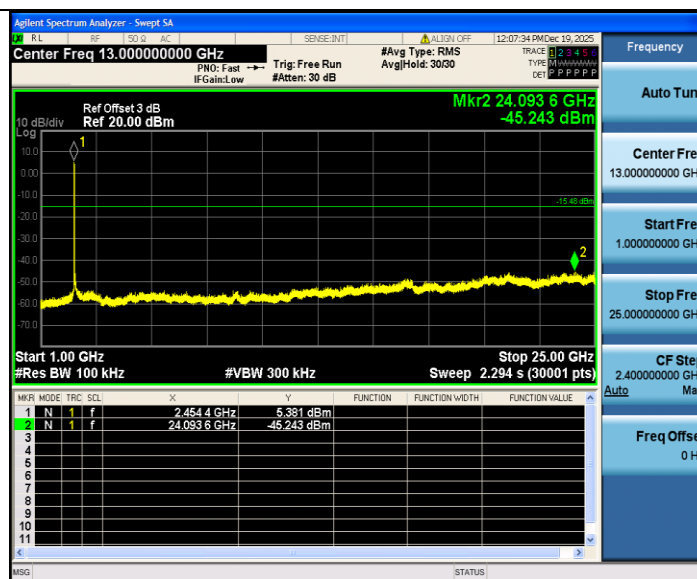
11N20_2437_1000~25000



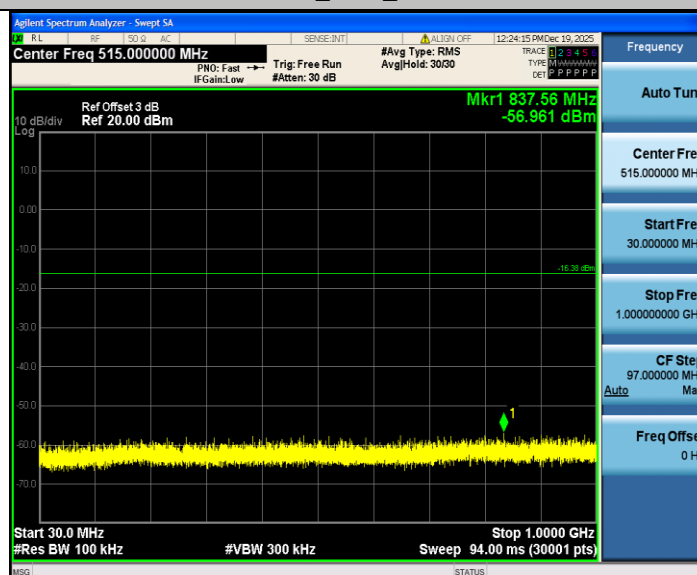
11N20_2462_30~1000



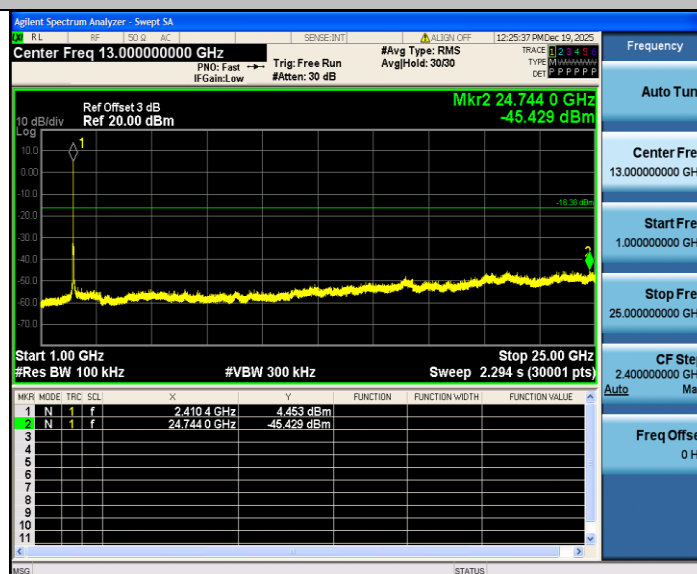
11N20_2462_1000~25000



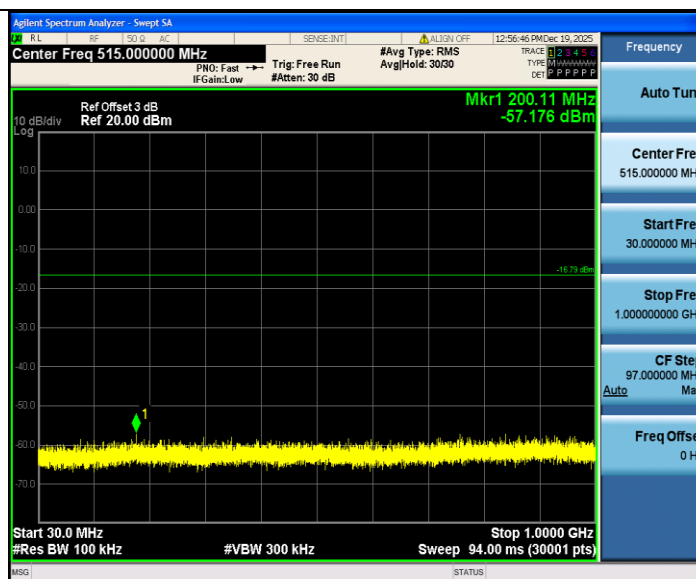
11AX20_2412_30~1000



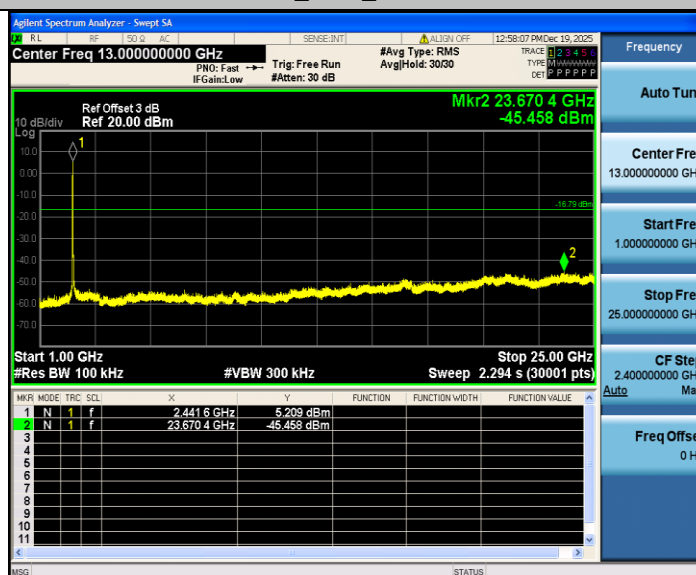
11AX20_2412_1000~25000



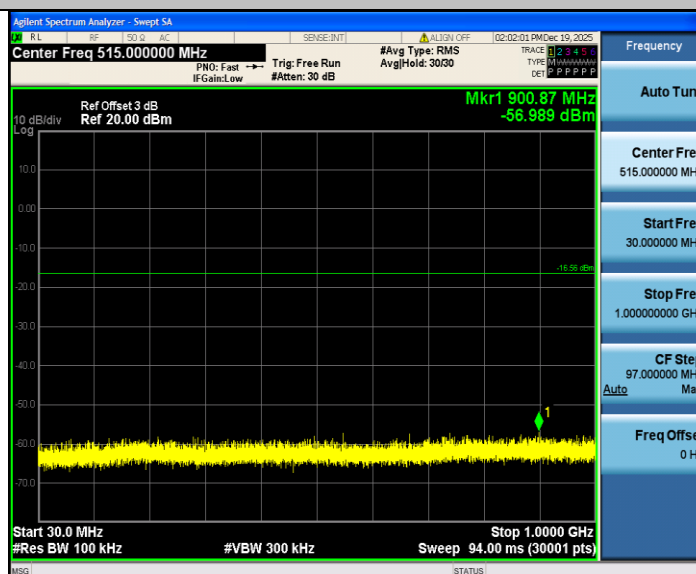
11AX20_2437_30~1000



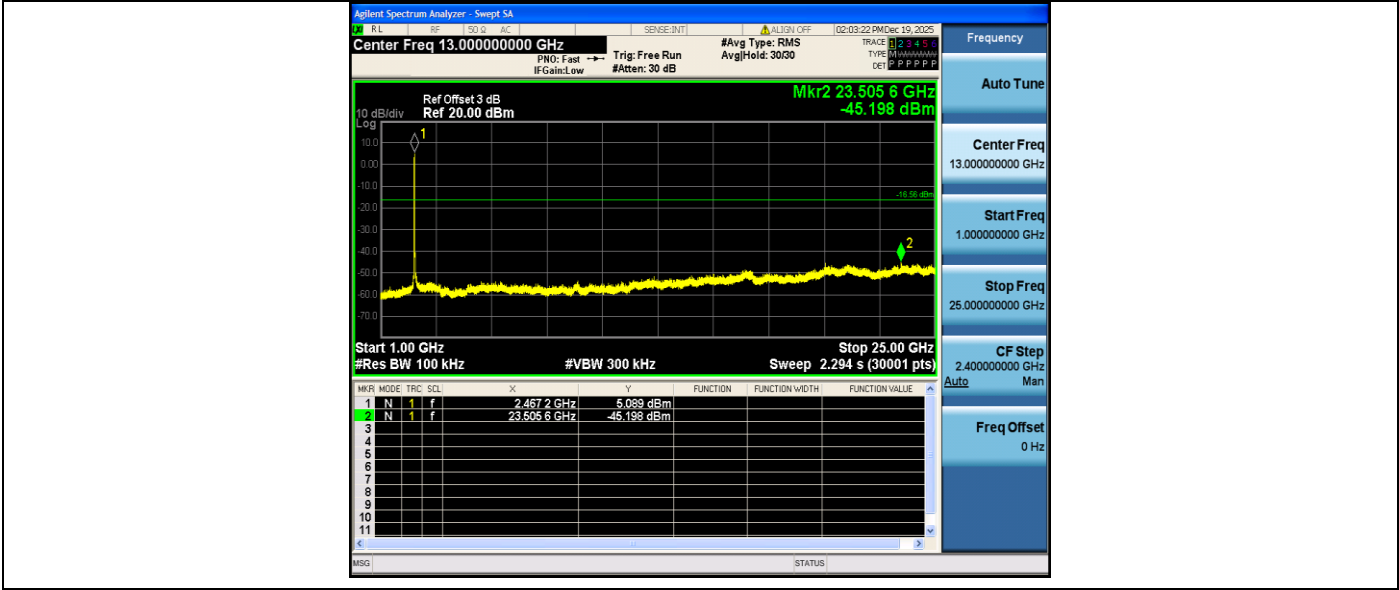
11AX20_2437_1000~25000



11AX20_2462_30~1000



11AX20_2462_1000~25000

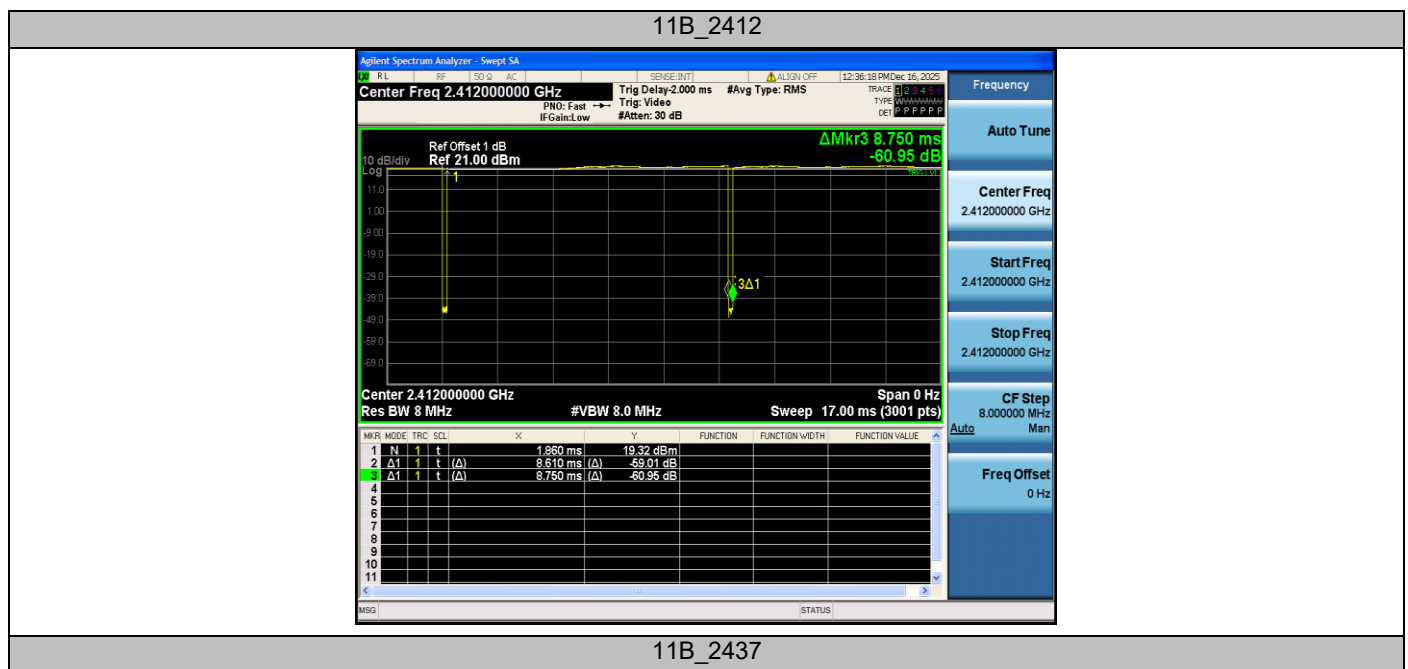


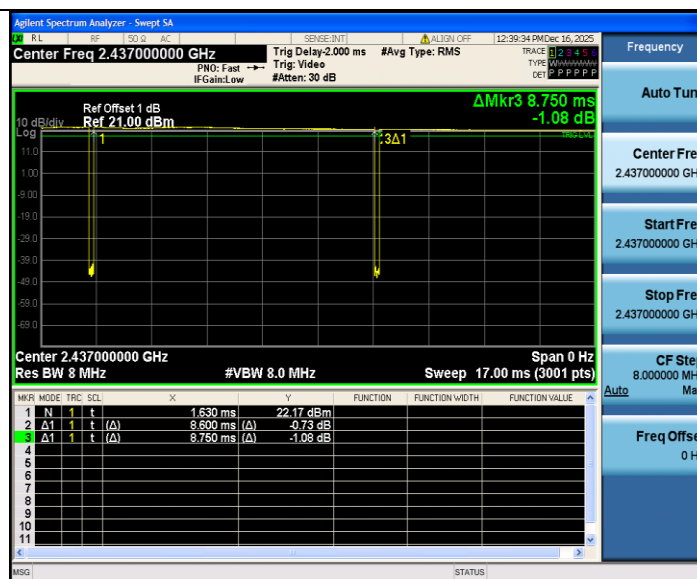
- Notes:
- Offset = Cable loss
 - We have evaluated each antenna and both SISO and MIMO mode, only worst data shown in report.

Duty cycle

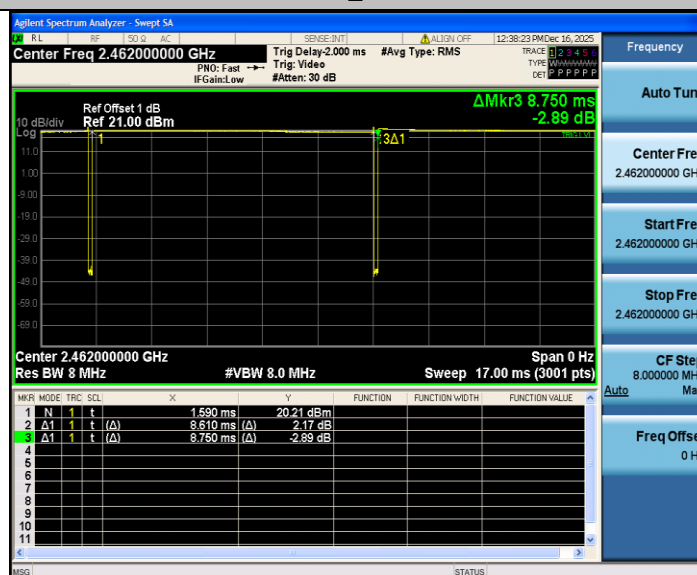
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.61	8.75	98.40	0.07
		2437	8.60	8.75	98.29	0.07
		2462	8.61	8.75	98.40	0.07
11G	Ant1	2412	1.43	1.58	90.51	0.43
		2437	1.43	1.58	90.51	0.43
		2462	1.43	1.58	90.51	0.43
11N20	Ant1	2412	1.34	1.49	89.93	0.46
		2437	1.34	1.49	89.93	0.46
		2462	1.33	1.48	89.86	0.46
11AX20	Ant1	2412	1.05	1.20	87.50	0.58
		2437	1.04	1.19	87.39	0.59
		2462	1.04	1.19	87.39	0.59

Test Graphs

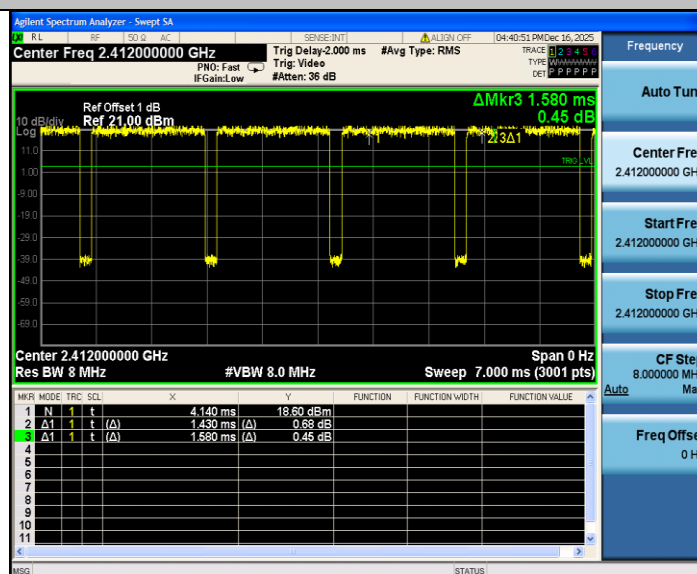




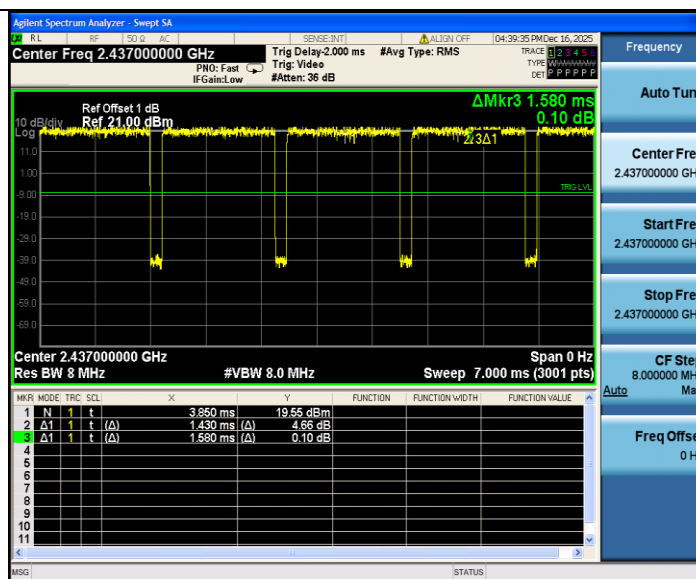
11B_2462



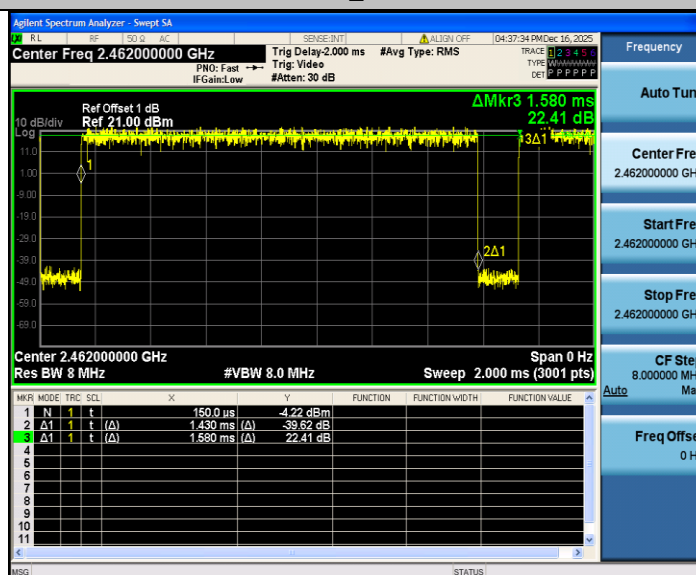
11G_2412



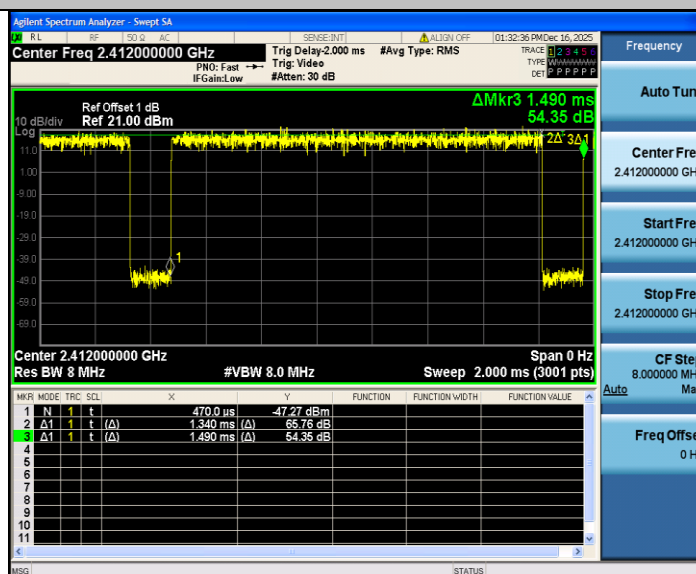
11G_2437



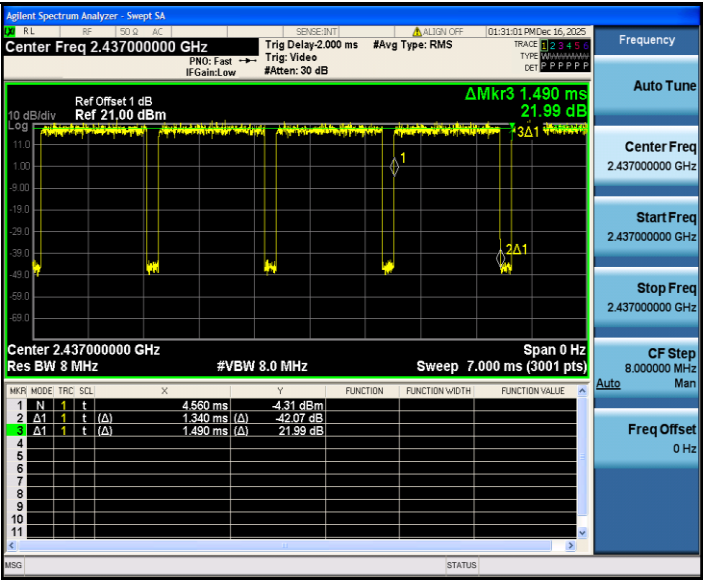
11G_2462



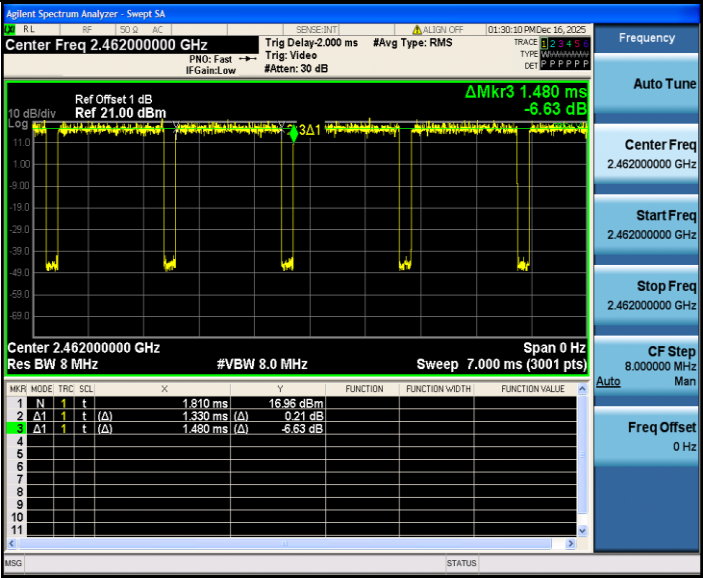
11N20_2412



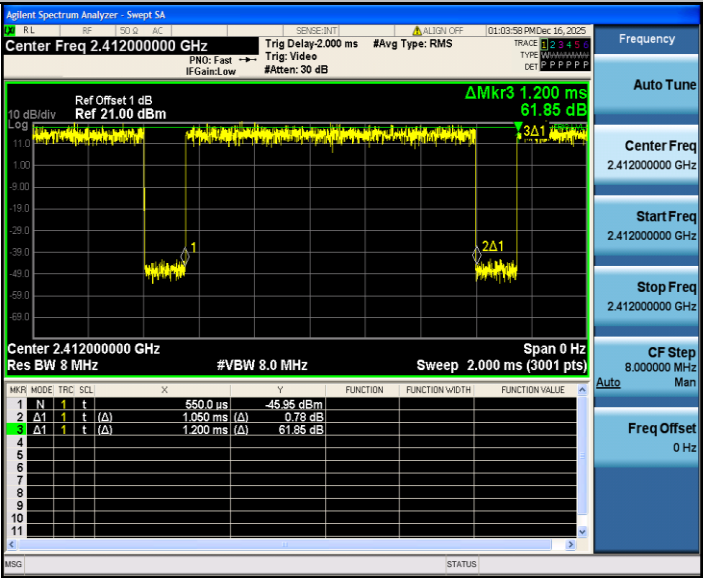
11N20_2437



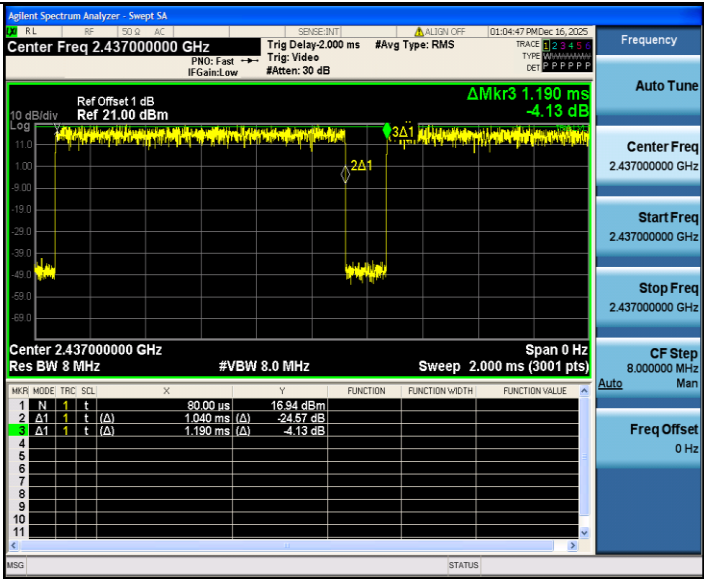
11N20_2462



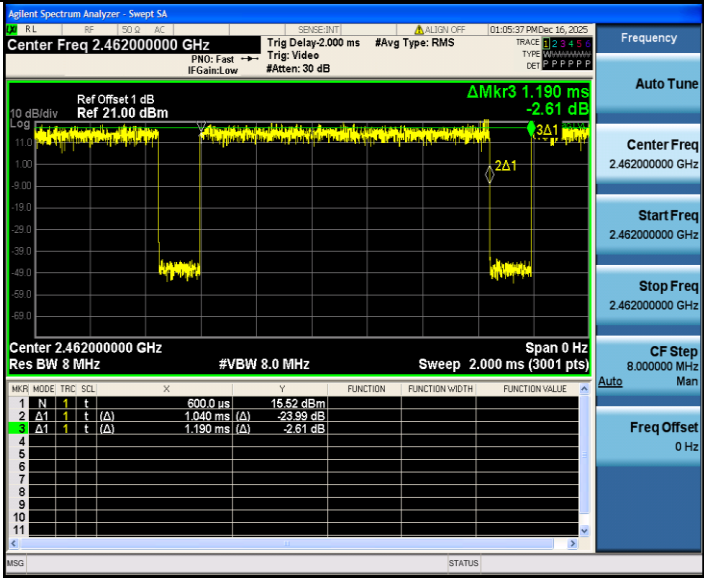
11AX20_2412



11AX20_2437



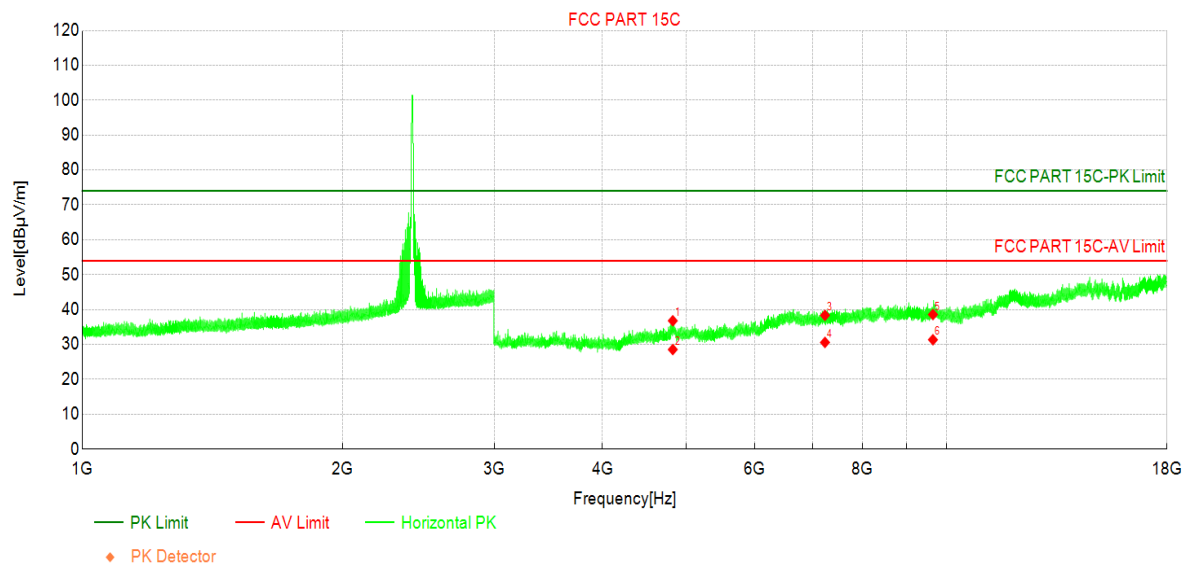
11AX20_2462



Emissions in Restricted Bands

Transmit at 2412MHz by 802.11b with Ant1

Test Graph

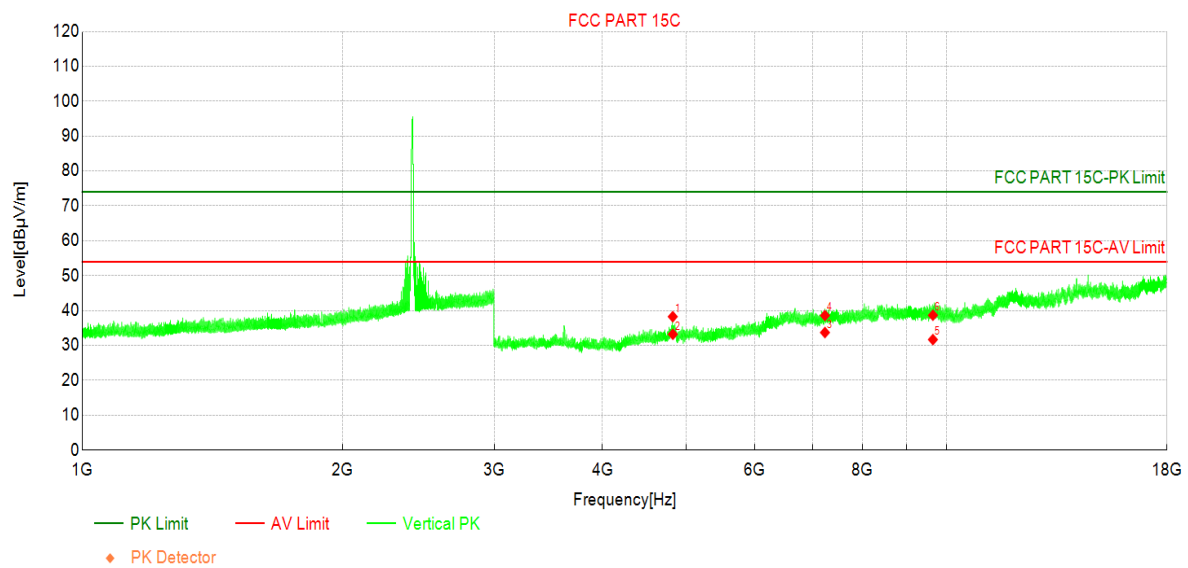


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	41.78	36.78	-5.00	74.00	37.22	PK	Horizo	PASS
2	4824.00	33.55	28.55	-5.00	54.00	25.45	AV	Horizo	PASS
3	7236.00	35.23	38.34	3.11	74.00	35.66	PK	Horizo	PASS
4	7236.00	27.48	30.59	3.11	54.00	23.41	AV	Horizo	PASS
5	9648.00	31.55	38.57	7.02	74.00	35.43	PK	Horizo	PASS
6	9648.00	24.33	31.35	7.02	54.00	22.65	AV	Horizo	PASS

Transmit at 2412MHz by 802.11b with Ant1

Test Graph

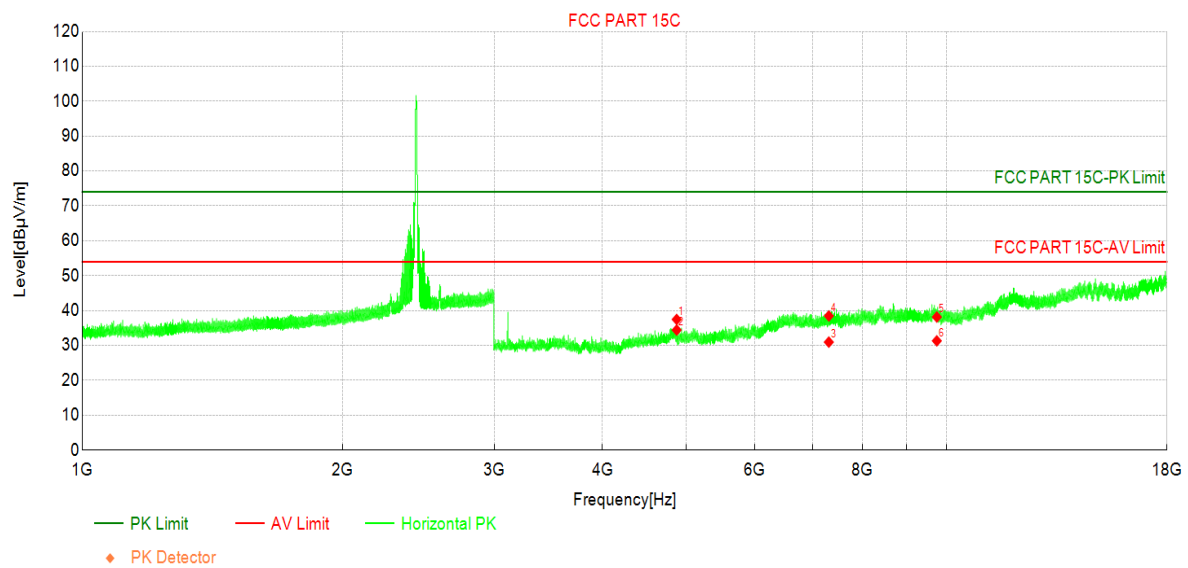


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	43.25	38.25	-5.00	74.00	35.75	PK	Vertic	PASS
2	4824.38	38.20	33.20	-5.00	54.00	20.80	AV	Vertic	PASS
3	7235.25	30.60	33.71	3.11	54.00	20.29	AV	Vertic	PASS
4	7236.00	35.47	38.58	3.11	74.00	35.42	PK	Vertic	PASS
5	9648.00	24.66	31.68	7.02	54.00	22.32	AV	Vertic	PASS
6	9648.00	31.64	38.66	7.02	74.00	35.34	PK	Vertic	PASS

Transmit at 2437MHz by 802.11b with Ant1

Test Graph

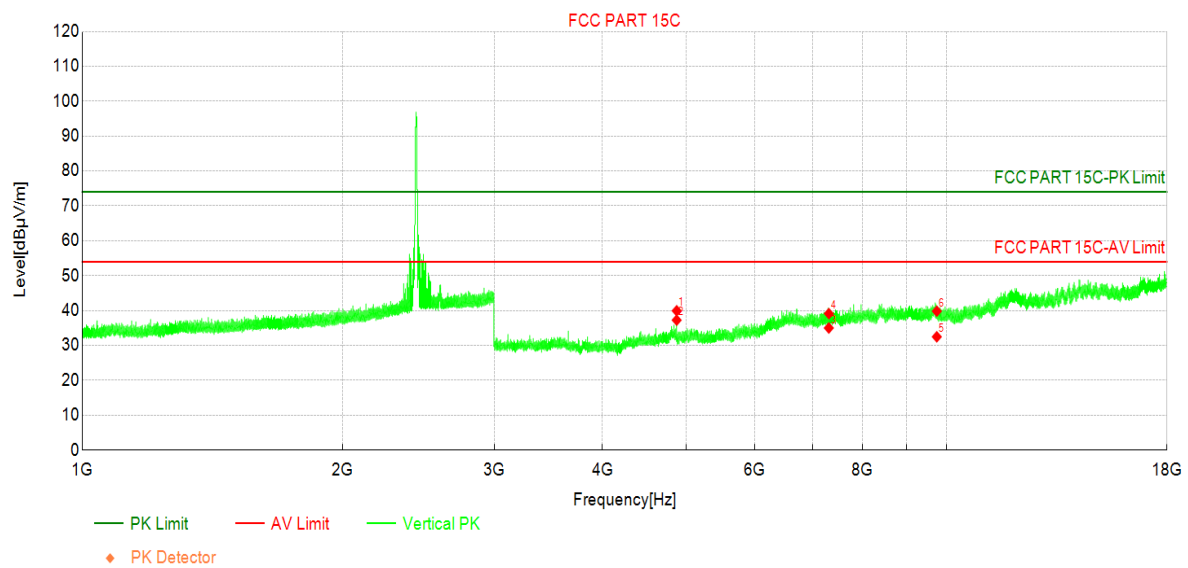


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	42.53	37.45	-5.08	74.00	36.55	PK	Horizo	PASS
2	4874.00	39.50	34.42	-5.08	54.00	19.58	AV	Horizo	PASS
3	7311.00	27.85	30.96	3.11	54.00	23.04	AV	Horizo	PASS
4	7311.00	35.35	38.46	3.11	74.00	35.54	PK	Horizo	PASS
5	9748.00	31.00	38.15	7.15	74.00	35.85	PK	Horizo	PASS
6	9748.00	24.17	31.32	7.15	54.00	22.68	AV	Horizo	PASS

Transmit at 2437MHz by 802.11b with Ant1

Test Graph

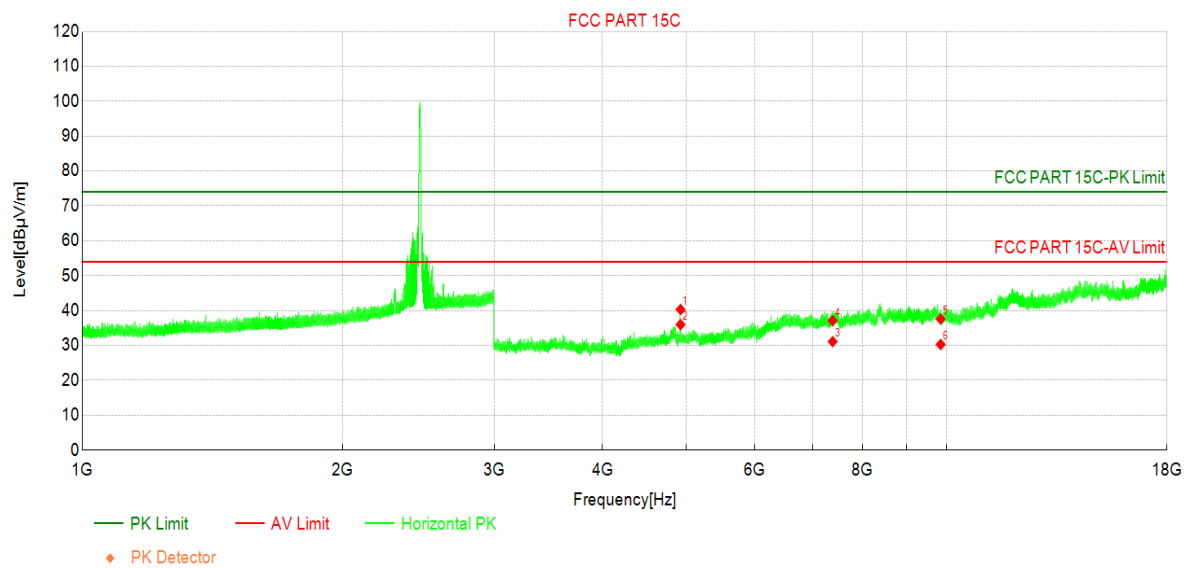


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	45.03	39.95	-5.08	74.00	34.05	PK	Vertic	PASS
2	4874.00	42.33	37.25	-5.08	54.00	16.75	AV	Vertic	PASS
3	7310.63	31.90	35.01	3.11	54.00	18.99	AV	Vertic	PASS
4	7311.00	36.01	39.12	3.11	74.00	34.88	PK	Vertic	PASS
5	9748.00	25.33	32.48	7.15	54.00	21.52	AV	Vertic	PASS
6	9748.00	32.68	39.83	7.15	74.00	34.17	PK	Vertic	PASS

Transmit at 2462MHz by 802.11b with Ant1

Test Graph

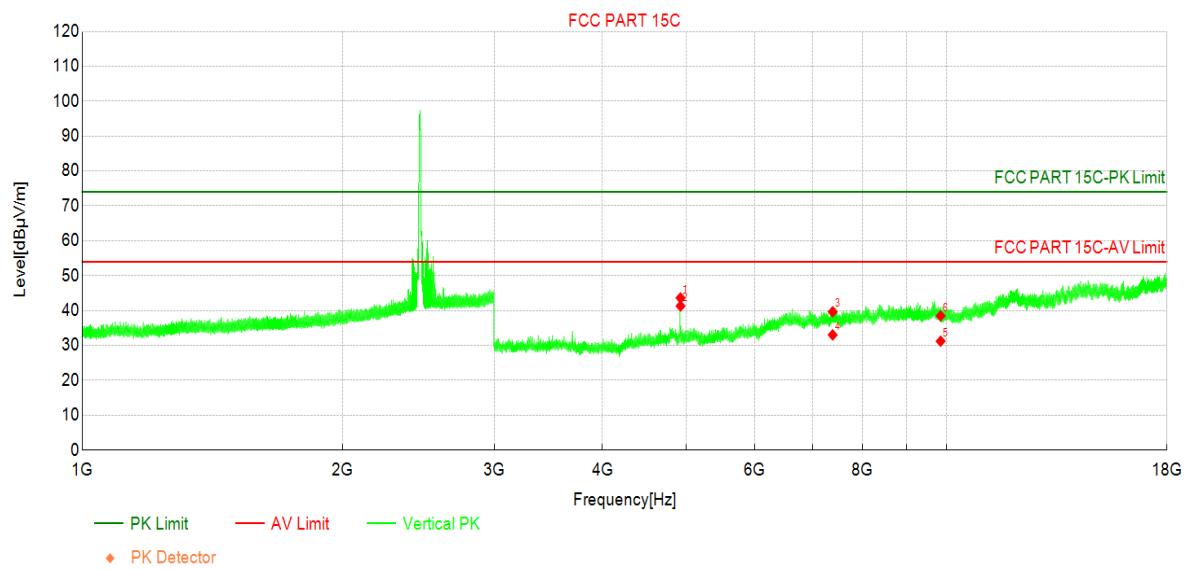


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	45.37	40.31	-5.06	74.00	33.69	PK	Horizo	PASS
2	4924.00	41.03	35.97	-5.06	54.00	18.03	AV	Horizo	PASS
3	7386.00	27.87	31.10	3.23	54.00	22.90	AV	Horizo	PASS
4	7386.00	33.86	37.09	3.23	74.00	36.91	PK	Horizo	PASS
5	9848.00	30.99	37.58	6.59	74.00	36.42	PK	Horizo	PASS
6	9848.00	23.69	30.28	6.59	54.00	23.72	AV	Horizo	PASS

Transmit at 2462MHz by 802.11b with Ant1

Test Graph

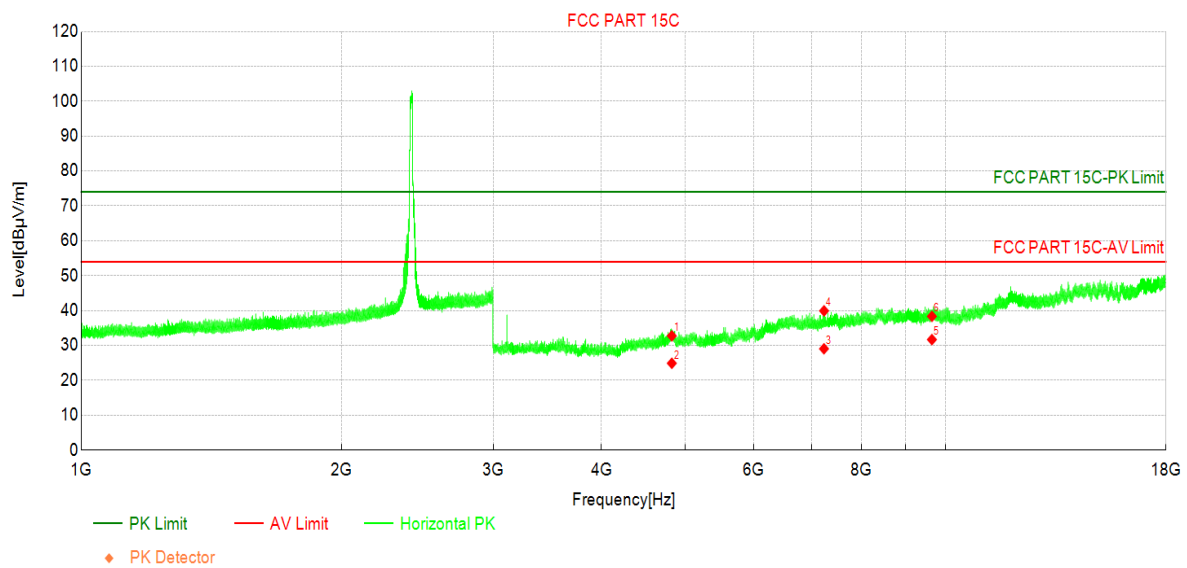


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	48.68	43.62	-5.06	74.00	30.38	PK	Vertic	PASS
2	4924.50	46.36	41.30	-5.06	54.00	12.70	AV	Vertic	PASS
3	7386.00	36.43	39.66	3.23	74.00	34.34	PK	Vertic	PASS
4	7386.00	29.80	33.03	3.23	54.00	20.97	AV	Vertic	PASS
5	9848.00	24.63	31.22	6.59	54.00	22.78	AV	Vertic	PASS
6	9848.00	31.88	38.47	6.59	74.00	35.53	PK	Vertic	PASS

Transmit at 2412MHz by 802.11g with Ant1

Test Graph

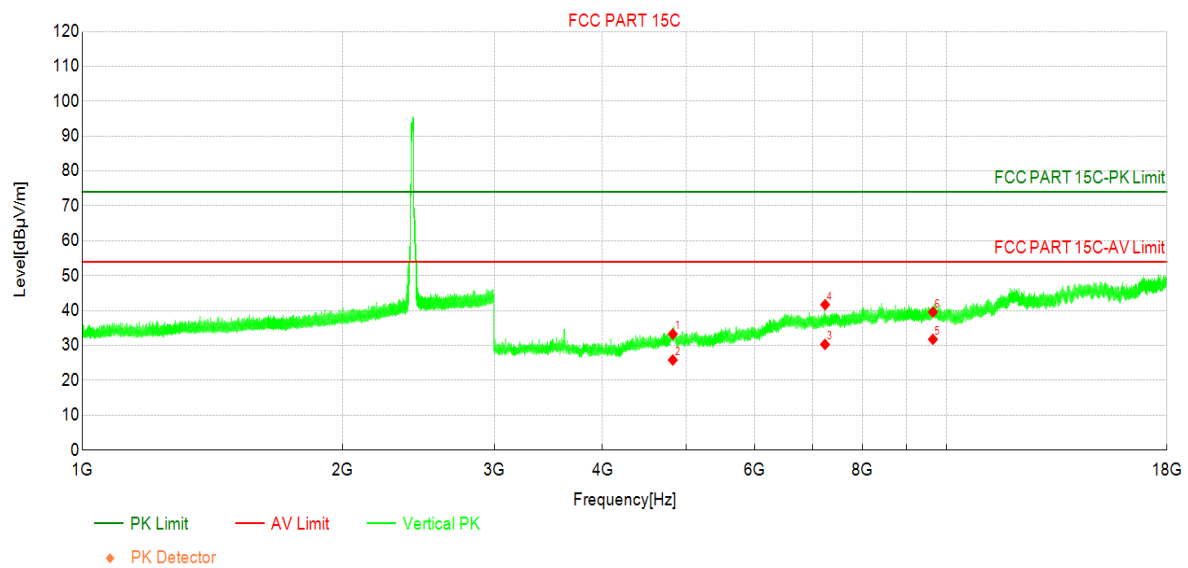


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	37.74	32.74	-5.00	74.00	41.26	PK	Horizo	PASS
2	4824.00	29.90	24.90	-5.00	54.00	29.10	AV	Horizo	PASS
3	7236.00	25.93	29.04	3.11	54.00	24.96	AV	Horizo	PASS
4	7236.75	36.81	39.92	3.11	74.00	34.08	PK	Horizo	PASS
5	9648.00	24.66	31.68	7.02	54.00	22.32	AV	Horizo	PASS
6	9648.00	31.32	38.34	7.02	74.00	35.66	PK	Horizo	PASS

Transmit at 2412MHz by 802.11g with Ant1

Test Graph

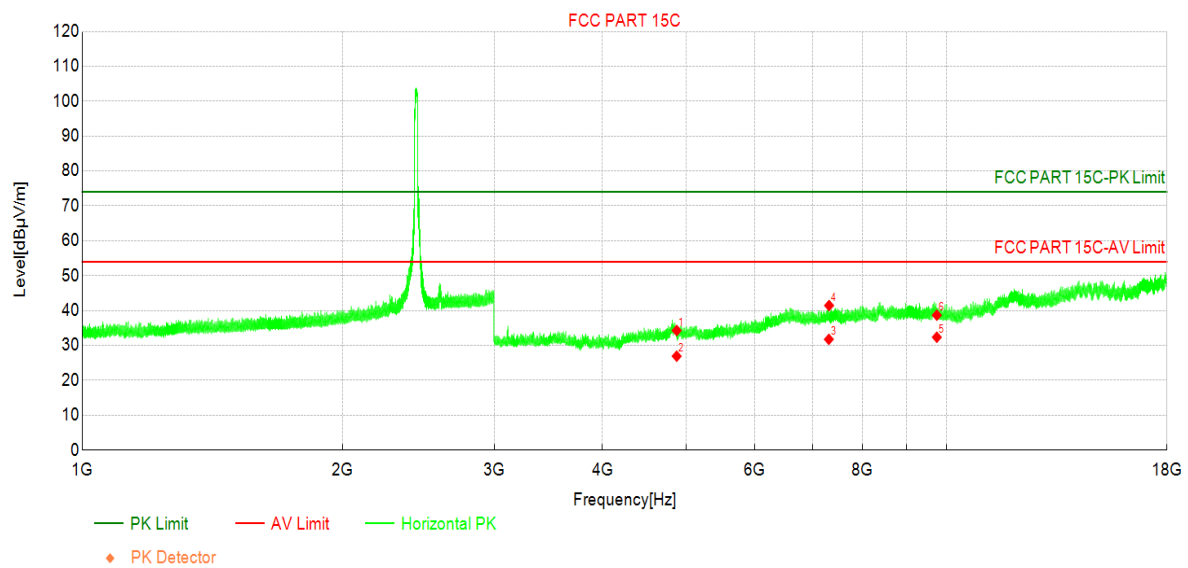


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	38.27	33.27	-5.00	74.00	40.73	PK	Vertic	PASS
2	4824.00	30.83	25.83	-5.00	54.00	28.17	AV	Vertic	PASS
3	7236.00	27.19	30.30	3.11	54.00	23.70	AV	Vertic	PASS
4	7239.38	38.56	41.67	3.11	74.00	32.33	PK	Vertic	PASS
5	9648.00	24.73	31.75	7.02	54.00	22.25	AV	Vertic	PASS
6	9648.00	32.54	39.56	7.02	74.00	34.44	PK	Vertic	PASS

Transmit at 2437MHz by 802.11g with Ant1

Test Graph

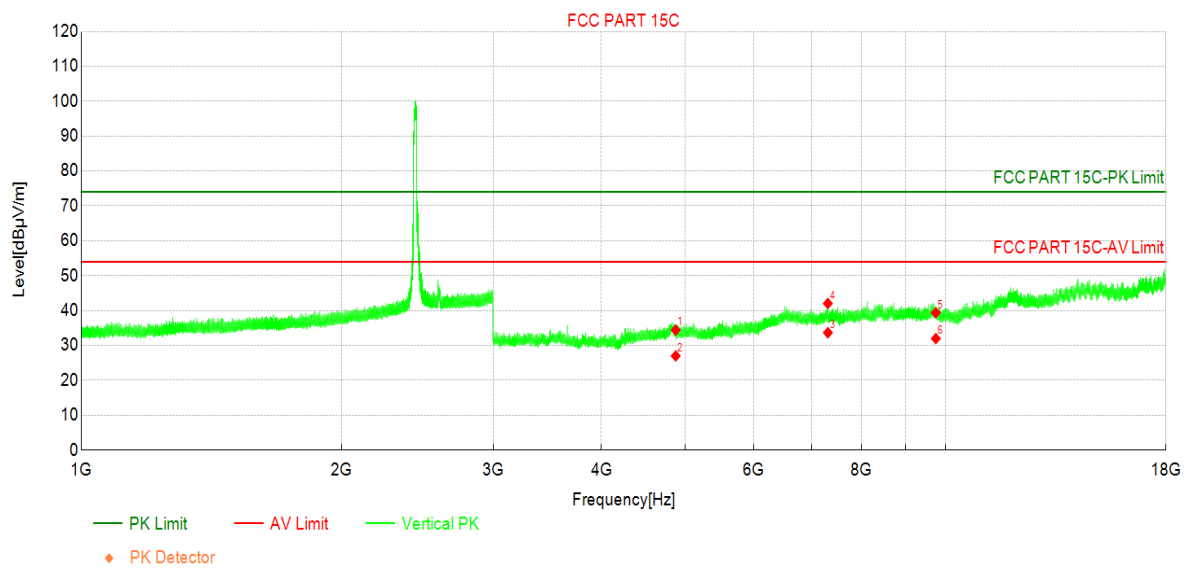


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	39.36	34.28	-5.08	74.00	39.72	PK	Horizo	PASS
2	4874.00	32.00	26.92	-5.08	54.00	27.08	AV	Horizo	PASS
3	7311.00	28.65	31.76	3.11	54.00	22.24	AV	Horizo	PASS
4	7315.88	38.32	41.44	3.12	74.00	32.56	PK	Horizo	PASS
5	9748.00	25.20	32.35	7.15	54.00	21.65	AV	Horizo	PASS
6	9748.00	31.52	38.67	7.15	74.00	35.33	PK	Horizo	PASS

Transmit at 2437MHz by 802.11g with Ant1

Test Graph

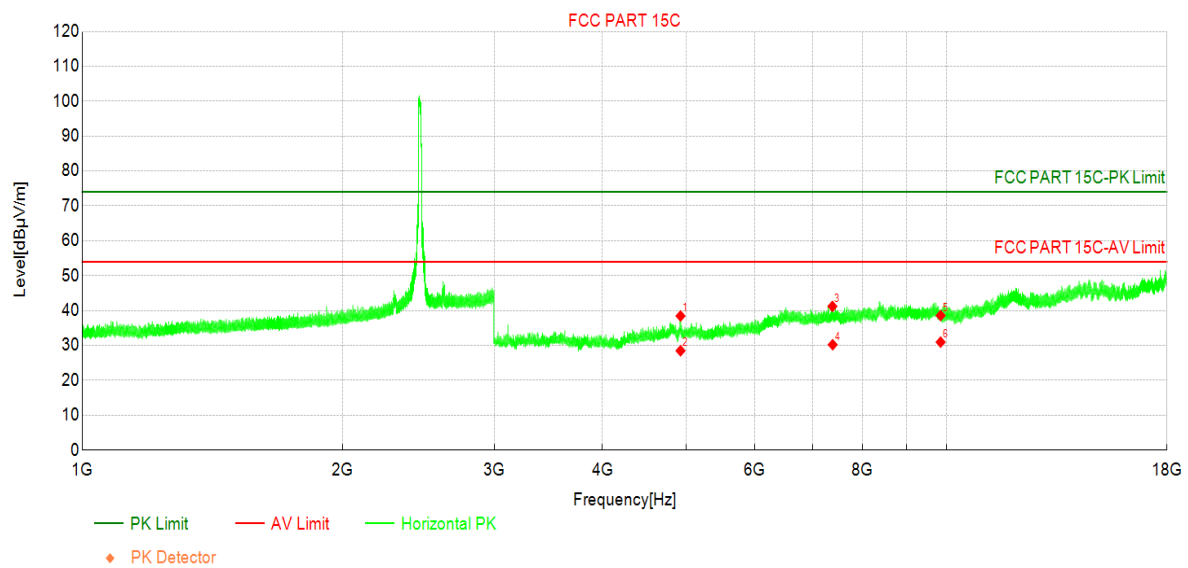


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	39.51	34.43	-5.08	74.00	39.57	PK	Vertic	PASS
2	4874.00	32.09	27.01	-5.08	54.00	26.99	AV	Vertic	PASS
3	7311.38	30.54	33.65	3.11	54.00	20.35	AV	Vertic	PASS
4	7311.38	38.92	42.03	3.11	74.00	31.97	PK	Vertic	PASS
5	9748.00	32.22	39.37	7.15	74.00	34.63	PK	Vertic	PASS
6	9748.00	24.82	31.97	7.15	54.00	22.03	AV	Vertic	PASS

Transmit at 2462MHz by 802.11g with Ant1

Test Graph

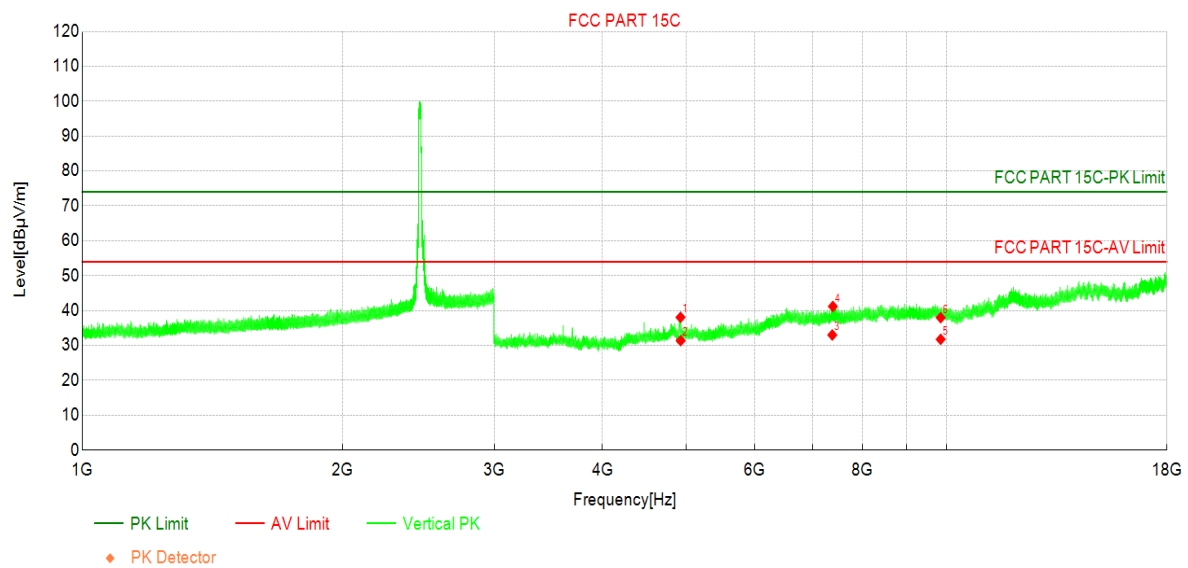


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	43.51	38.45	-5.06	74.00	35.55	PK	Horizo	PASS
2	4924.00	33.55	28.49	-5.06	54.00	25.51	AV	Horizo	PASS
3	7380.75	37.98	41.20	3.22	74.00	32.80	PK	Horizo	PASS
4	7386.00	26.99	30.22	3.23	54.00	23.78	AV	Horizo	PASS
5	9848.00	31.98	38.57	6.59	74.00	35.43	PK	Horizo	PASS
6	9848.00	24.37	30.96	6.59	54.00	23.04	AV	Horizo	PASS

Transmit at 2462MHz by 802.11g with Ant1

Test Graph

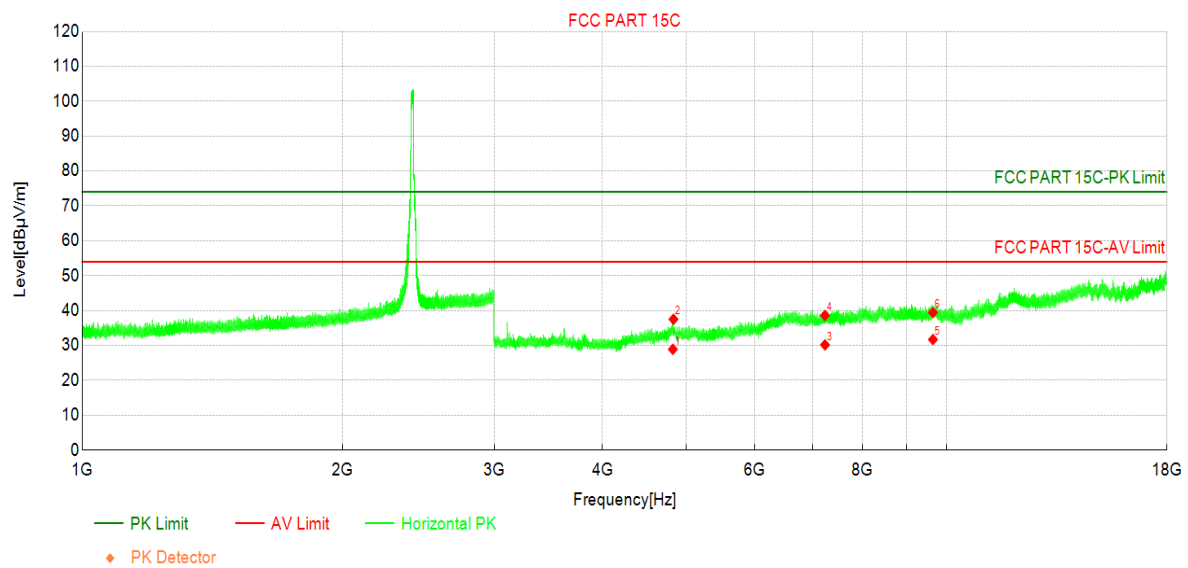


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	43.12	38.06	-5.06	74.00	35.94	PK	Vertic	PASS
2	4926.38	36.44	31.38	-5.06	54.00	22.62	AV	Vertic	PASS
3	7378.13	29.78	33.00	3.22	54.00	21.00	AV	Vertic	PASS
4	7390.13	37.94	41.18	3.24	74.00	32.82	PK	Vertic	PASS
5	9848.00	25.16	31.75	6.59	54.00	22.25	AV	Vertic	PASS
6	9848.00	31.37	37.96	6.59	74.00	36.04	PK	Vertic	PASS

Transmit at 2412MHz by 802.11n(20MHz) with Ant1+2

Test Graph

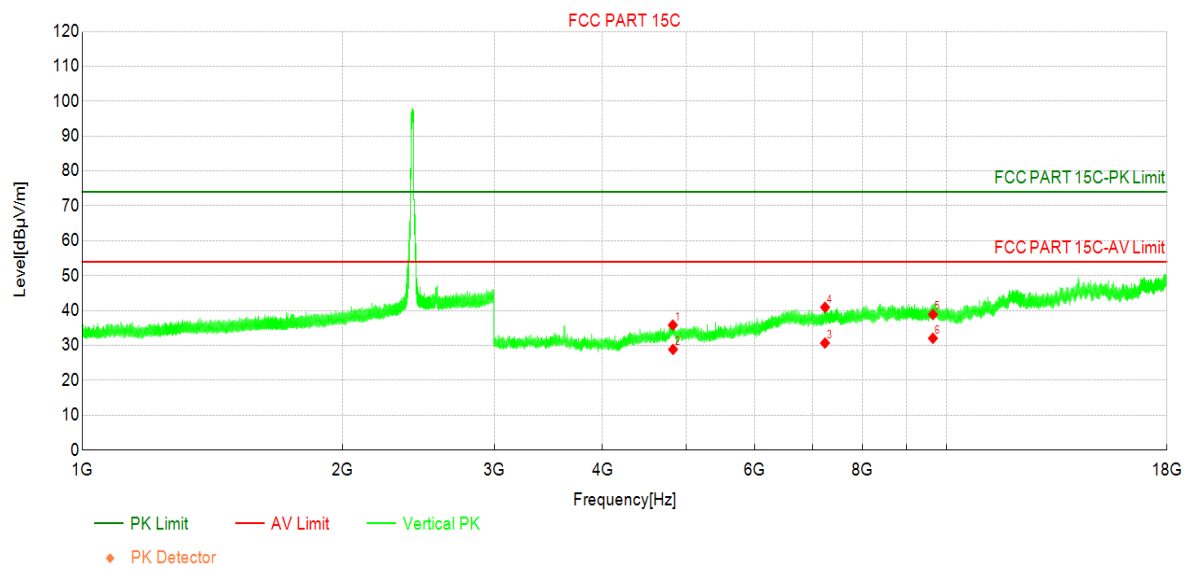


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.38	33.90	28.90	-5.00	54.00	25.10	AV	Horizo	PASS
2	4832.25	42.53	37.51	-5.02	74.00	36.49	PK	Horizo	PASS
3	7236.00	27.05	30.16	3.11	54.00	23.84	AV	Horizo	PASS
4	7236.00	35.48	38.59	3.11	74.00	35.41	PK	Horizo	PASS
5	9648.00	24.68	31.70	7.02	54.00	22.30	AV	Horizo	PASS
6	9648.00	32.41	39.43	7.02	74.00	34.57	PK	Horizo	PASS

Transmit at 2412MHz by 802.11n(20MHz) with Ant1+2

Test Graph

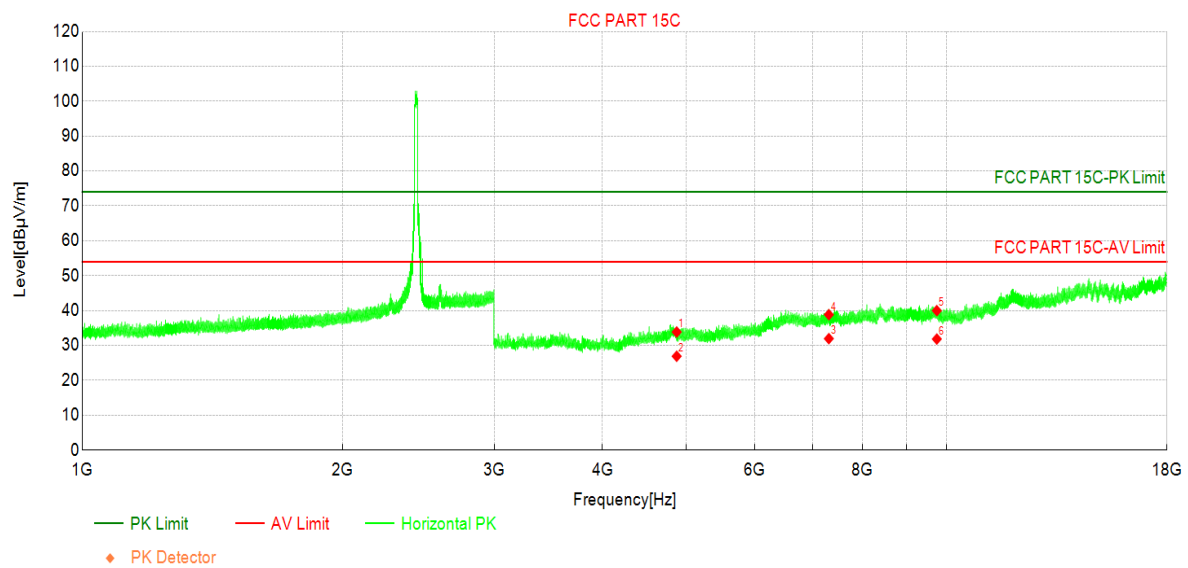


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	40.83	35.83	-5.00	74.00	38.17	PK	Vertic	PASS
2	4827.00	33.87	28.86	-5.01	54.00	25.14	AV	Vertic	PASS
3	7236.00	27.58	30.69	3.11	54.00	23.31	AV	Vertic	PASS
4	7237.88	37.82	40.93	3.11	74.00	33.07	PK	Vertic	PASS
5	9648.00	31.86	38.88	7.02	74.00	35.12	PK	Vertic	PASS
6	9648.00	25.04	32.06	7.02	54.00	21.94	AV	Vertic	PASS

Transmit at 2437MHz by 802.11n(20MHz) with Ant1+2

Test Graph

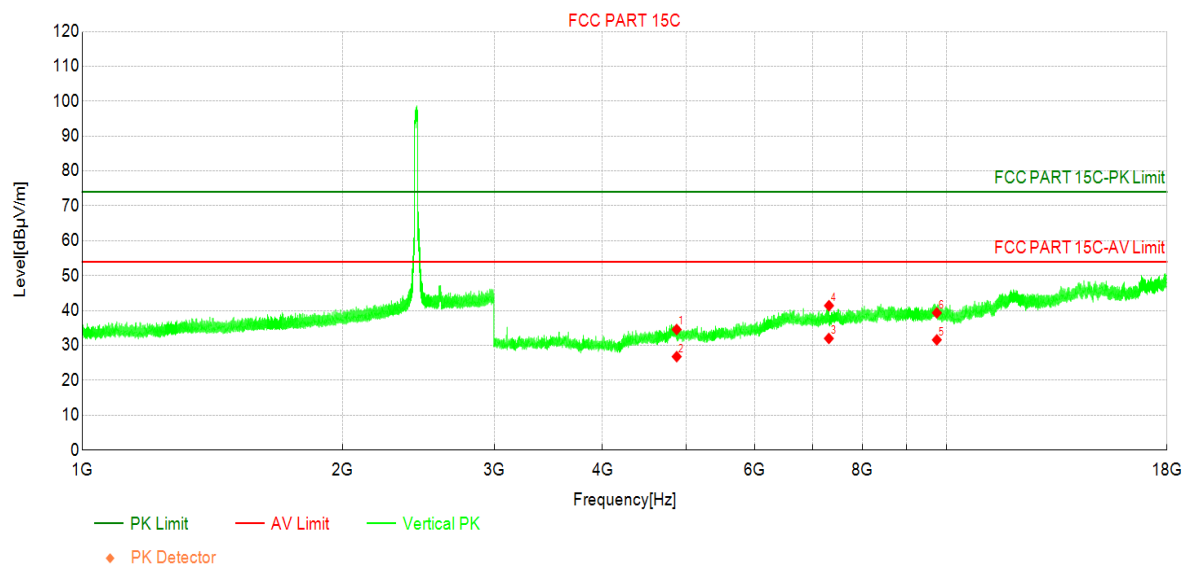


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	38.94	33.86	-5.08	74.00	40.14	PK	Horizo	PASS
2	4874.00	31.99	26.91	-5.08	54.00	27.09	AV	Horizo	PASS
3	7311.00	28.85	31.96	3.11	54.00	22.04	AV	Horizo	PASS
4	7311.00	35.72	38.83	3.11	74.00	35.17	PK	Horizo	PASS
5	9748.00	32.83	39.98	7.15	74.00	34.02	PK	Horizo	PASS
6	9748.00	24.69	31.84	7.15	54.00	22.16	AV	Horizo	PASS

Transmit at 2437MHz by 802.11n(20MHz) with Ant1+2

Test Graph

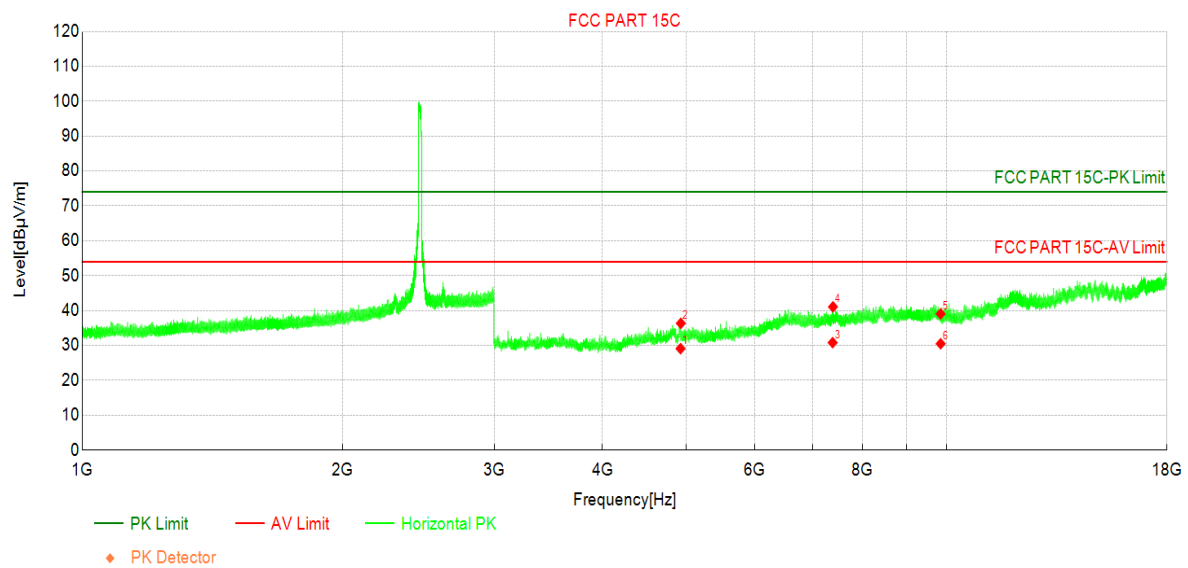


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	39.65	34.57	-5.08	74.00	39.43	PK	Vertic	PASS
2	4874.00	31.88	26.80	-5.08	54.00	27.20	AV	Vertic	PASS
3	7311.00	28.90	32.01	3.11	54.00	21.99	AV	Vertic	PASS
4	7313.25	38.29	41.41	3.12	74.00	32.59	PK	Vertic	PASS
5	9748.00	24.45	31.60	7.15	54.00	22.40	AV	Vertic	PASS
6	9748.00	32.19	39.34	7.15	74.00	34.66	PK	Vertic	PASS

Transmit at 2462MHz by 802.11n(20MHz) with Ant1+2

Test Graph

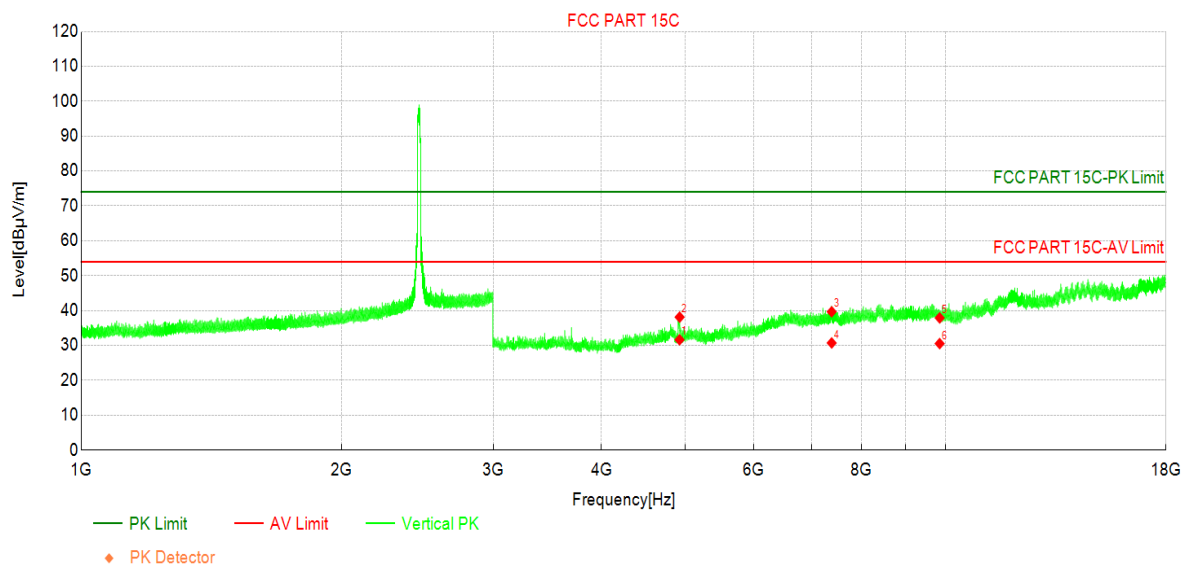


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	34.14	29.08	-5.06	54.00	24.92	AV	Horizo	PASS
2	4928.25	41.39	36.34	-5.05	74.00	37.66	PK	Horizo	PASS
3	7386.00	27.58	30.81	3.23	54.00	23.19	AV	Horizo	PASS
4	7392.38	37.83	41.07	3.24	74.00	32.93	PK	Horizo	PASS
5	9848.00	32.46	39.05	6.59	74.00	34.95	PK	Horizo	PASS
6	9848.00	23.90	30.49	6.59	54.00	23.51	AV	Horizo	PASS

Transmit at 2462MHz by 802.11n(20MHz) with Ant1+2

Test Graph

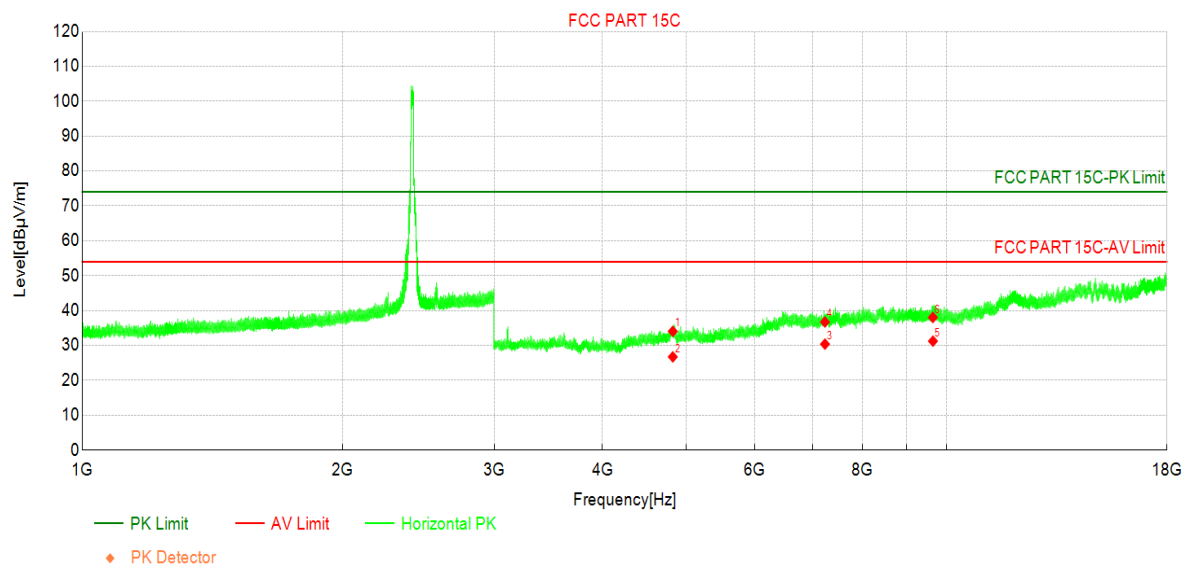


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4924.00	36.69	31.63	-5.06	54.00	22.37	AV	Vertic	PASS
2	4925.25	43.18	38.12	-5.06	74.00	35.88	PK	Vertic	PASS
3	7386.00	36.43	39.66	3.23	74.00	34.34	PK	Vertic	PASS
4	7386.00	27.49	30.72	3.23	54.00	23.28	AV	Vertic	PASS
5	9848.00	31.30	37.89	6.59	74.00	36.11	PK	Vertic	PASS
6	9848.00	23.94	30.53	6.59	54.00	23.47	AV	Vertic	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with Ant1+2

Test Graph

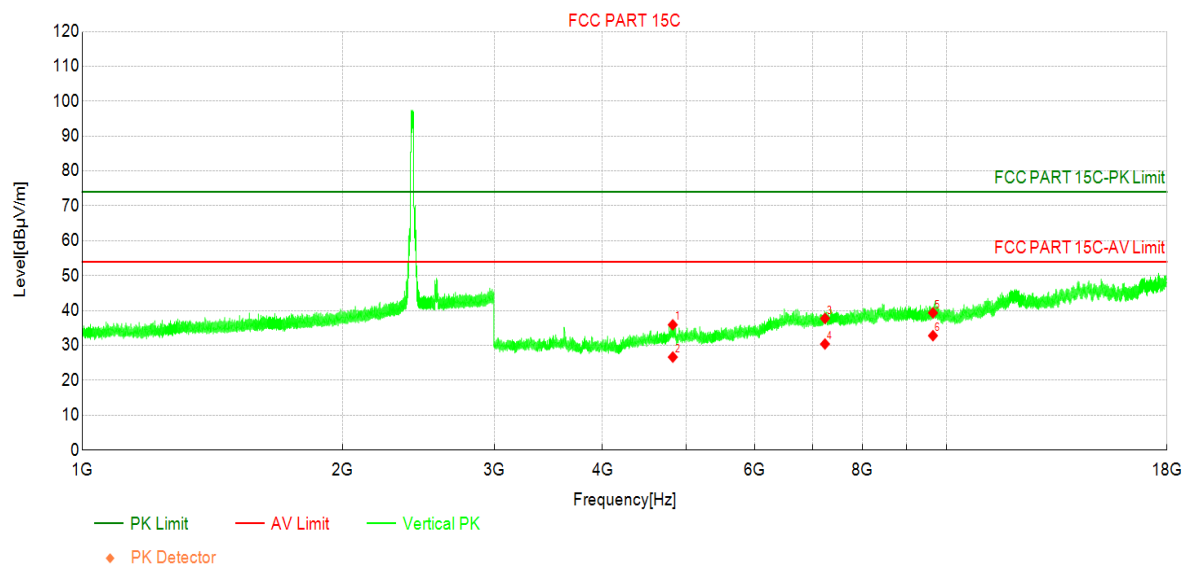


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	39.04	34.04	-5.00	74.00	39.96	PK	Horizo	PASS
2	4824.00	31.72	26.72	-5.00	54.00	27.28	AV	Horizo	PASS
3	7236.00	27.27	30.38	3.11	54.00	23.62	AV	Horizo	PASS
4	7236.00	33.61	36.72	3.11	74.00	37.28	PK	Horizo	PASS
5	9648.00	24.21	31.23	7.02	54.00	22.77	AV	Horizo	PASS
6	9648.00	31.01	38.03	7.02	74.00	35.97	PK	Horizo	PASS

Transmit at 2412MHz by 802.11ax(20MHz) with Ant1+2

Test Graph

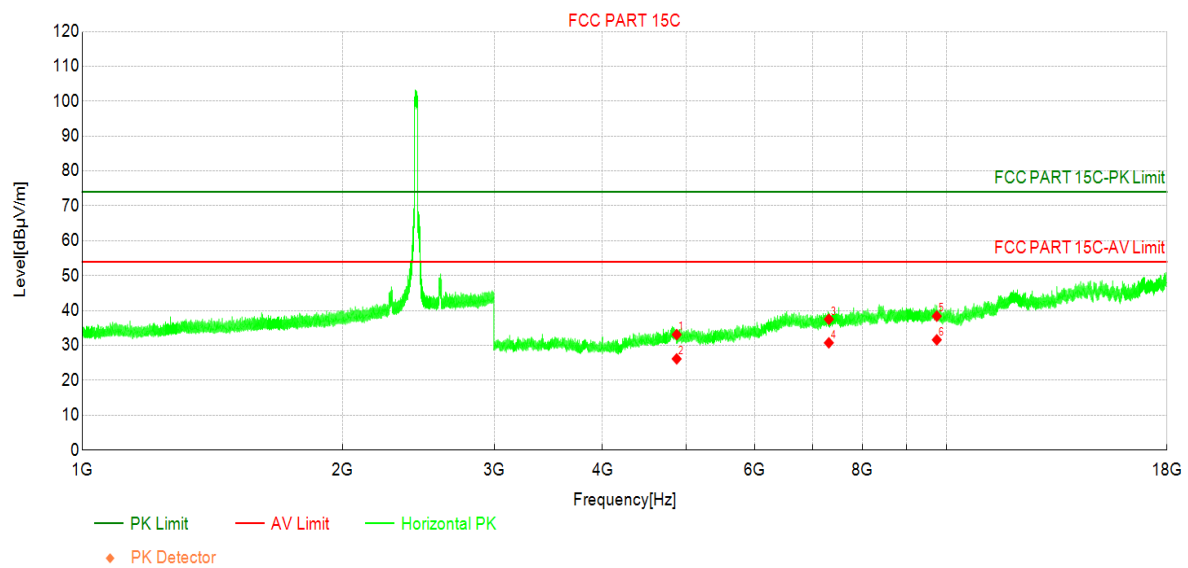


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4824.00	40.91	35.91	-5.00	74.00	38.09	PK	Vertic	PASS
2	4824.00	31.66	26.66	-5.00	54.00	27.34	AV	Vertic	PASS
3	7236.00	34.63	37.74	3.11	74.00	36.26	PK	Vertic	PASS
4	7236.00	27.31	30.42	3.11	54.00	23.58	AV	Vertic	PASS
5	9648.00	32.32	39.34	7.02	74.00	34.66	PK	Vertic	PASS
6	9648.00	25.78	32.80	7.02	54.00	21.20	AV	Vertic	PASS

Transmit at 2437MHz by 802.11ax(20MHz) with Ant1+2

Test Graph

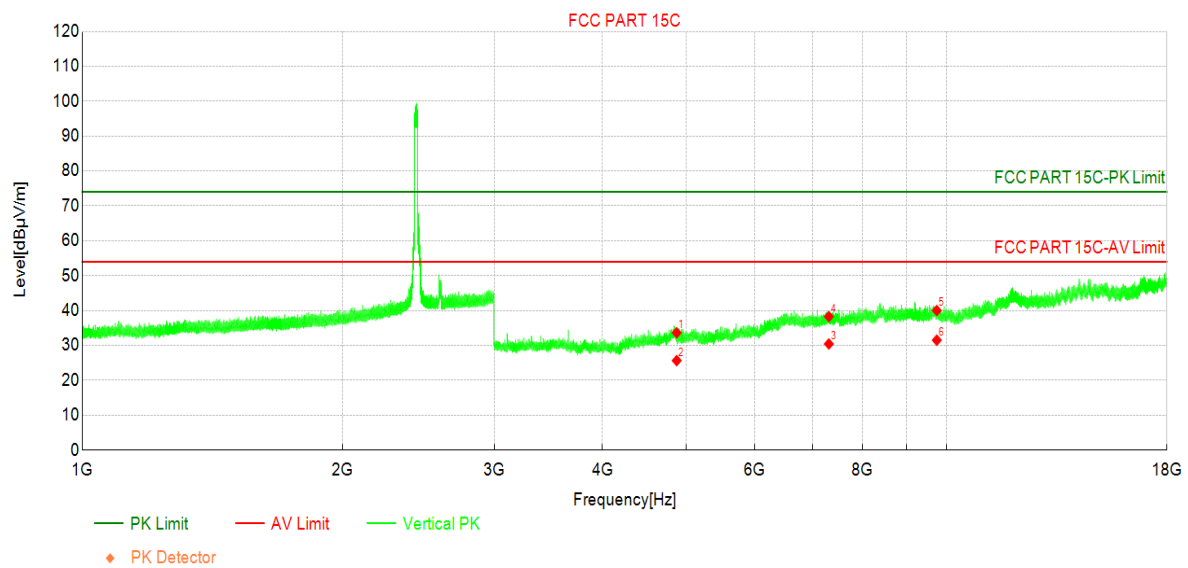


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	38.19	33.11	-5.08	74.00	40.89	PK	Horizo	PASS
2	4874.00	31.23	26.15	-5.08	54.00	27.85	AV	Horizo	PASS
3	7311.00	34.39	37.50	3.11	74.00	36.50	PK	Horizo	PASS
4	7311.00	27.64	30.75	3.11	54.00	23.25	AV	Horizo	PASS
5	9748.00	31.25	38.40	7.15	74.00	35.60	PK	Horizo	PASS
6	9748.00	24.46	31.61	7.15	54.00	22.39	AV	Horizo	PASS

Transmit at 2437MHz by 802.11ax(20MHz) with Ant1+2

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874.00	38.72	33.64	-5.08	74.00	40.36	PK	Vertic	PASS
2	4874.00	30.74	25.66	-5.08	54.00	28.34	AV	Vertic	PASS
3	7311.00	27.32	30.43	3.11	54.00	23.57	AV	Vertic	PASS
4	7311.00	35.15	38.26	3.11	74.00	35.74	PK	Vertic	PASS
5	9748.00	32.86	40.01	7.15	74.00	33.99	PK	Vertic	PASS
6	9748.00	24.36	31.51	7.15	54.00	22.49	AV	Vertic	PASS