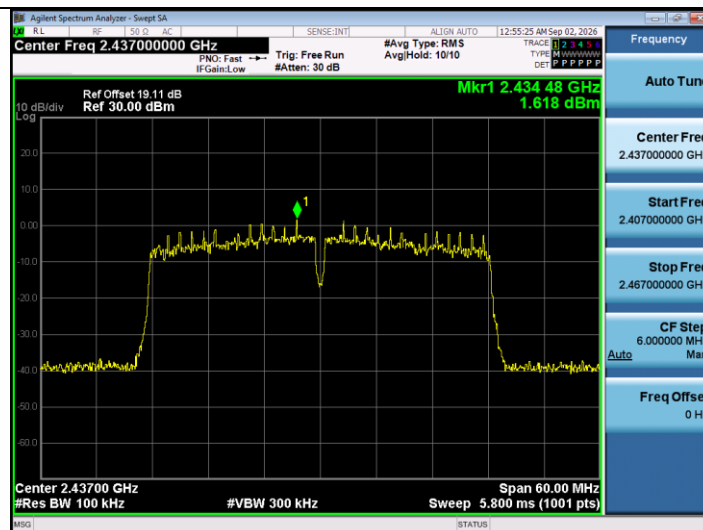
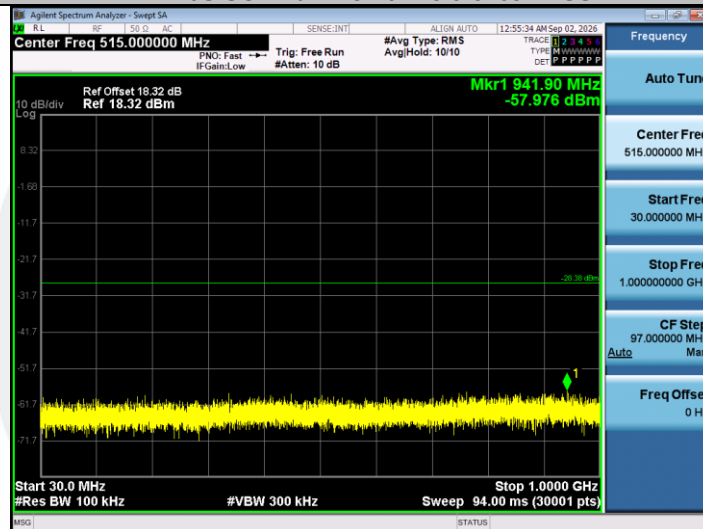
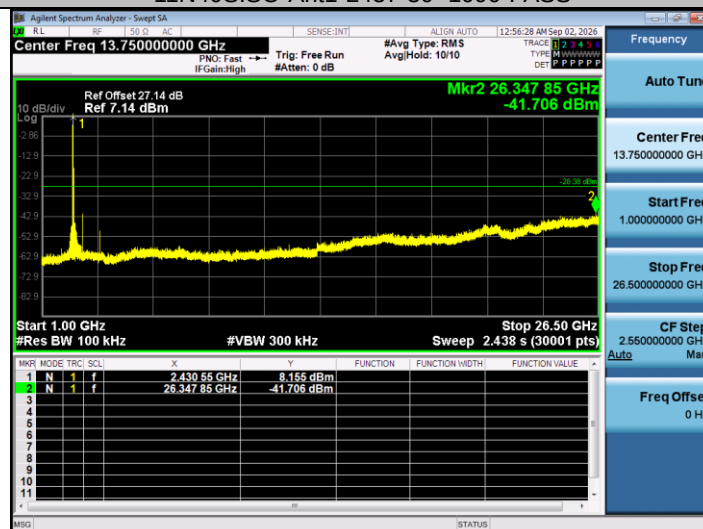




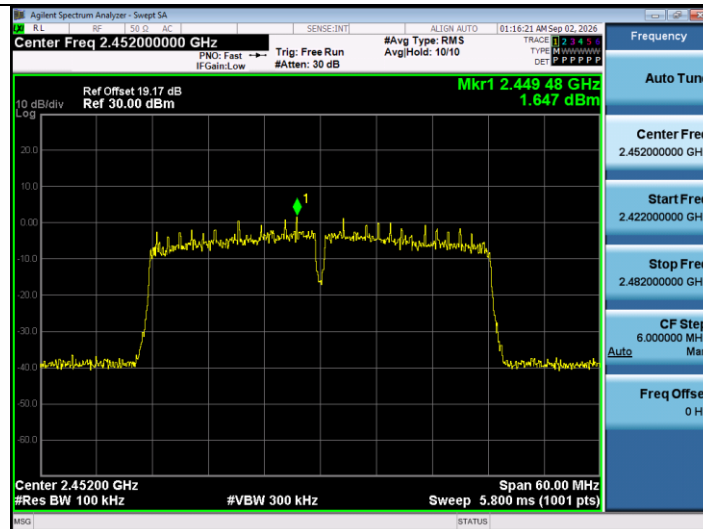
11N40SISO-Ant1-2437-0~Reference-PASS



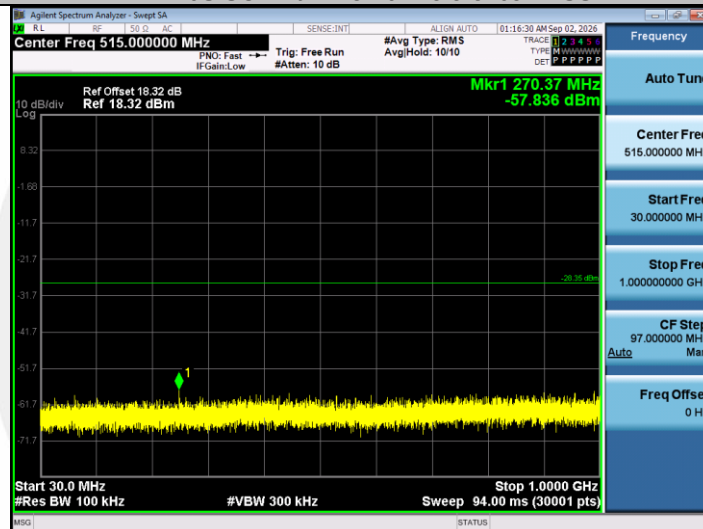
11N40SISO-Ant1-2437-30~1000-PASS



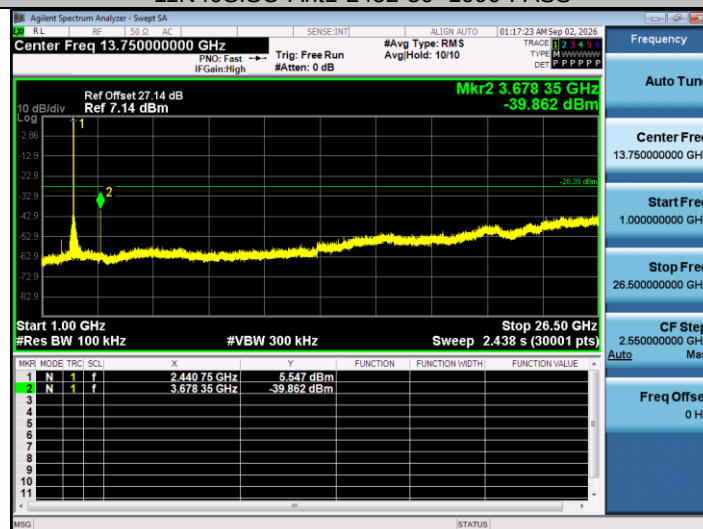
11N40SISO-Ant1-2437-1000~26500-PASS



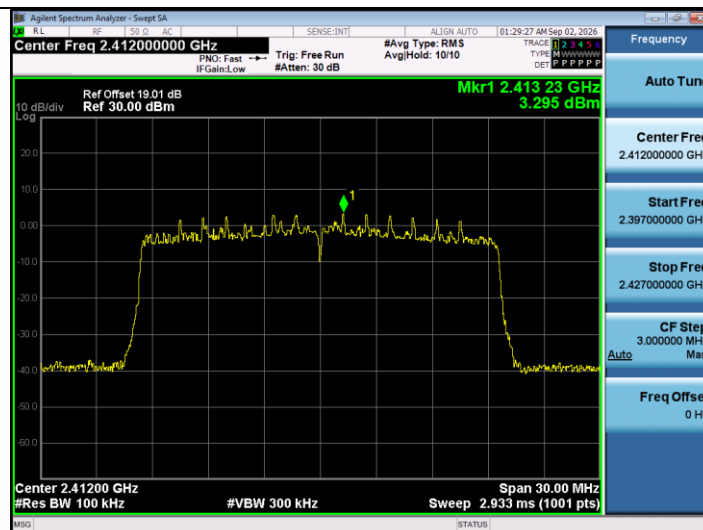
11N40SISO-Ant1-2452-0~Reference-PASS



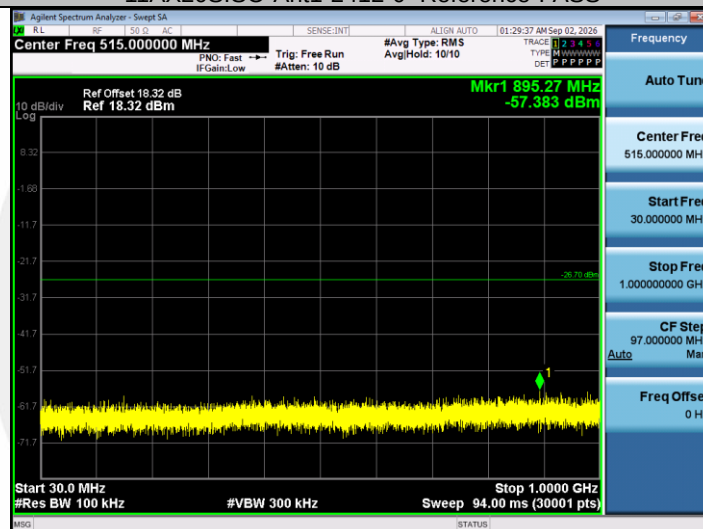
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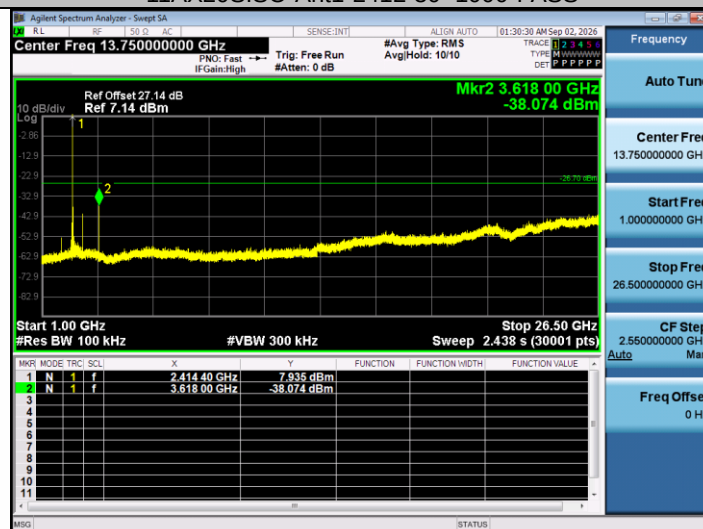
11N40SISO-Ant1-2452-1000~26500-PASS



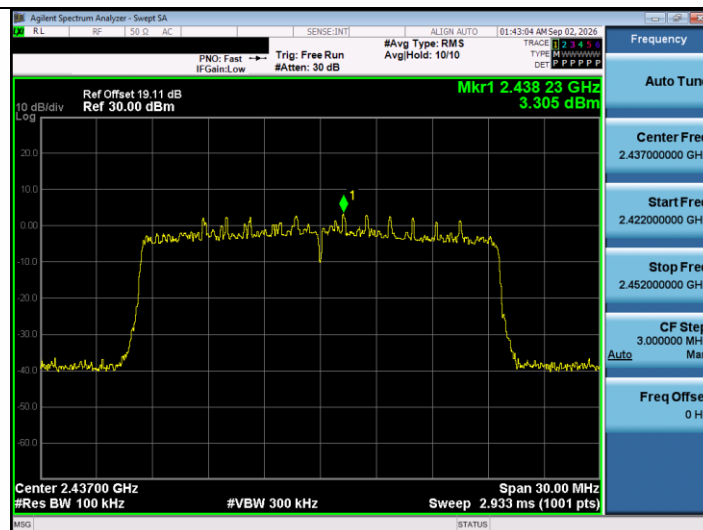
11AX20SISO-Ant1-2412-0~Reference-PASS



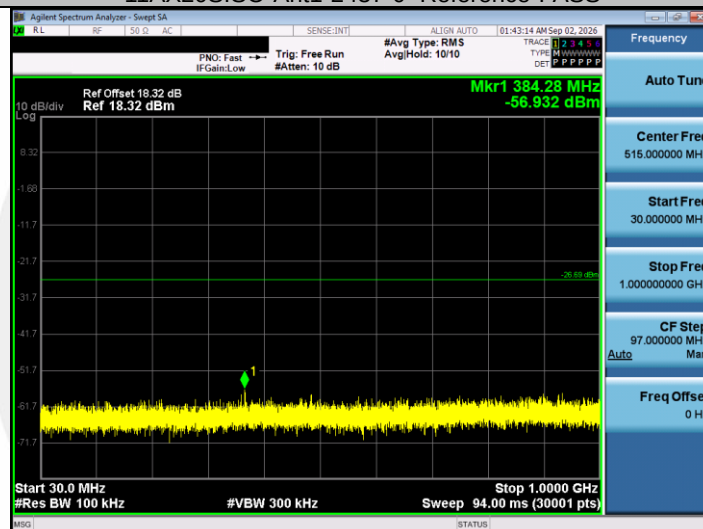
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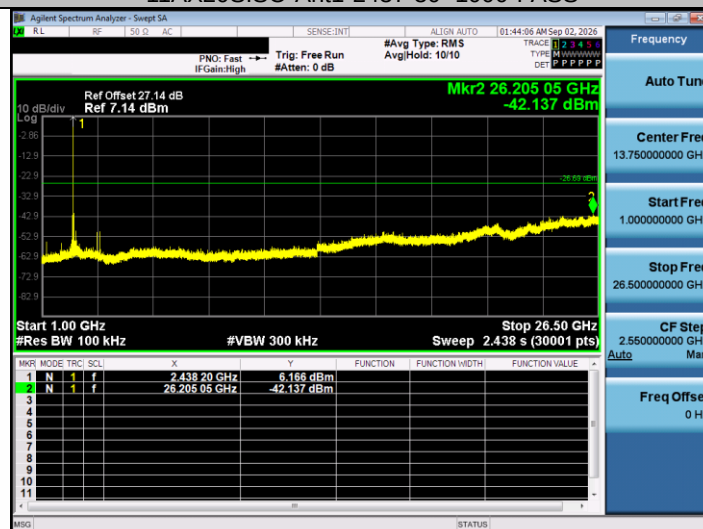
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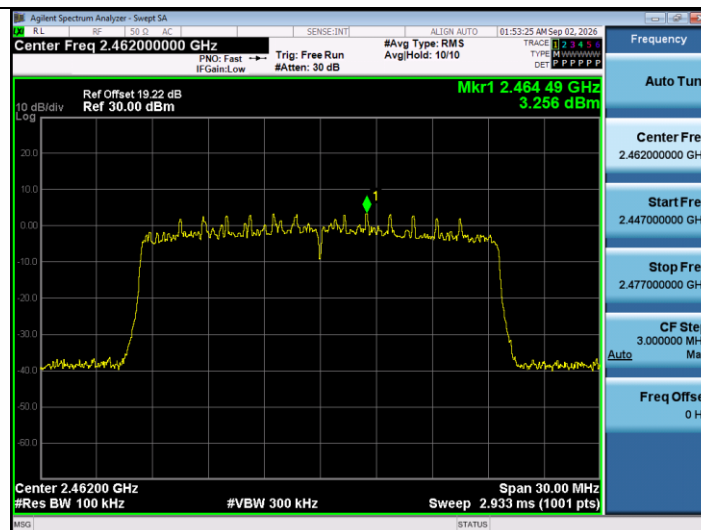
11AX20SISO-Ant1-2437-0~Reference-PASS



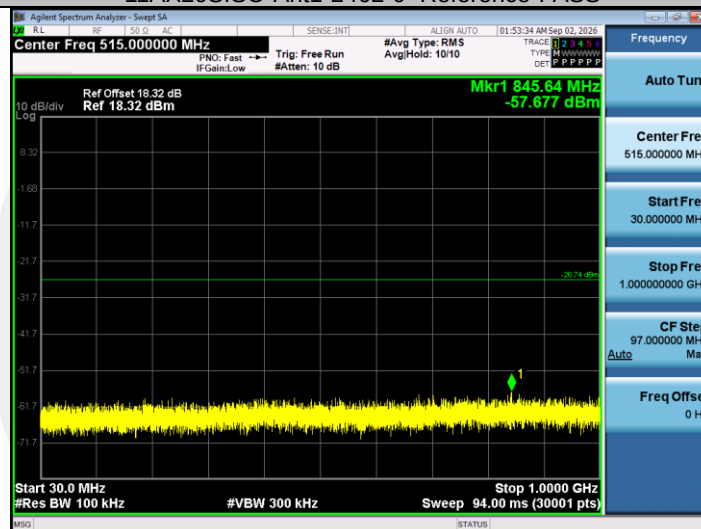
11AX20SISO-Ant1-2437-30~1000-PASS



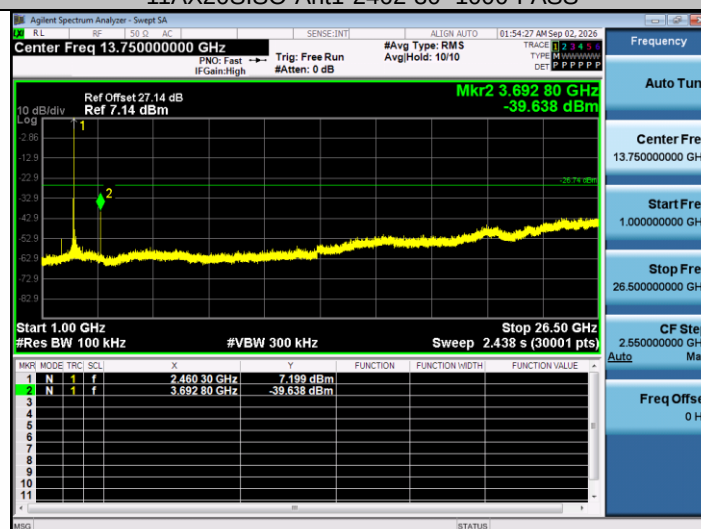
11AX20SISO-Ant1-2437-1000~26500-PASS



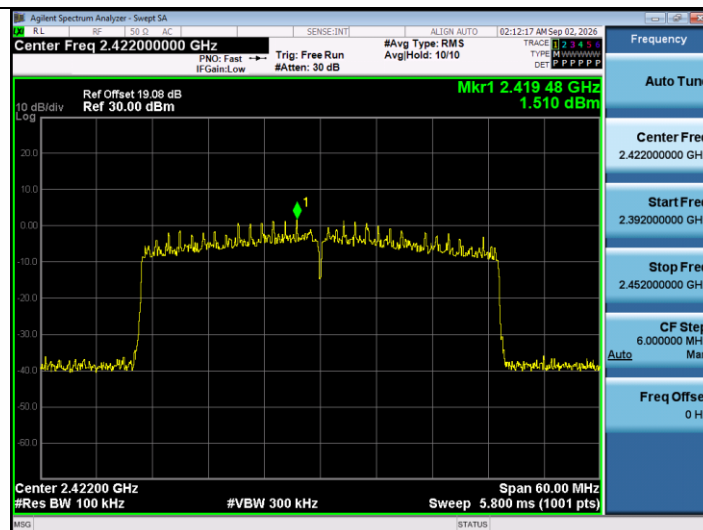
11AX20SISO-Ant1-2462-0~Reference-PASS



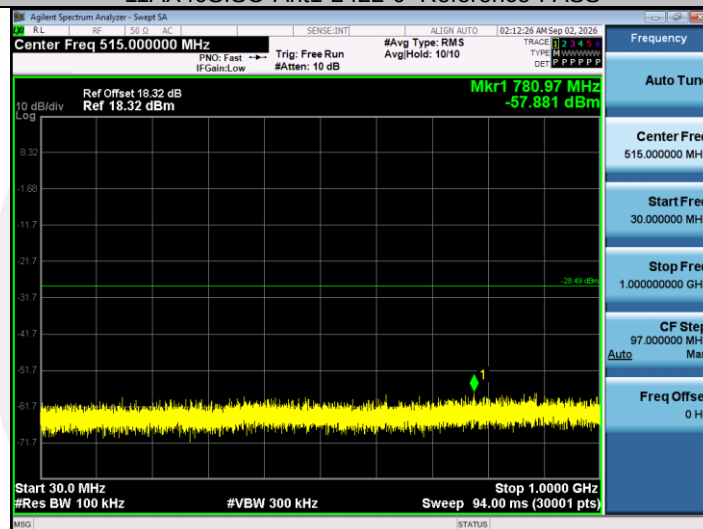
11AX20SISO-Ant1-2462-30~1000-PASS



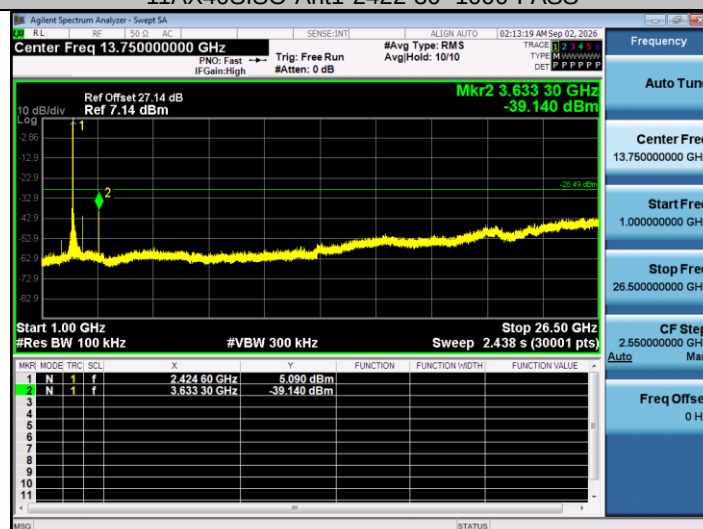
11AX20SISO-Ant1-2462-1000~26500-PASS



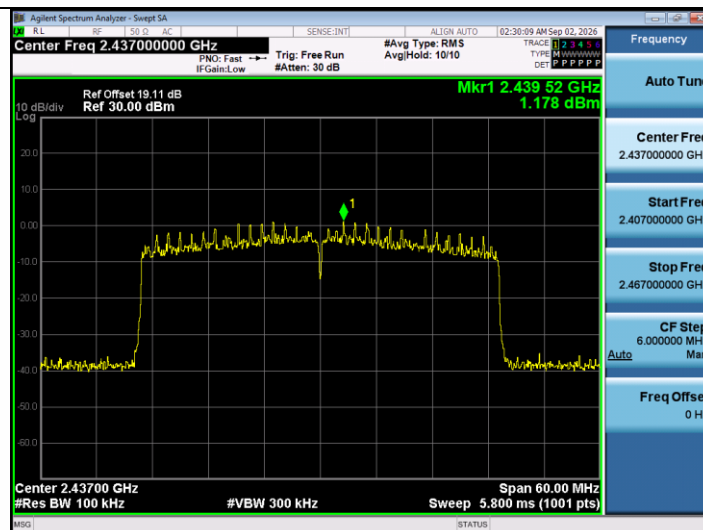
11AX40SISO-Ant1-2422-0~Reference-PASS



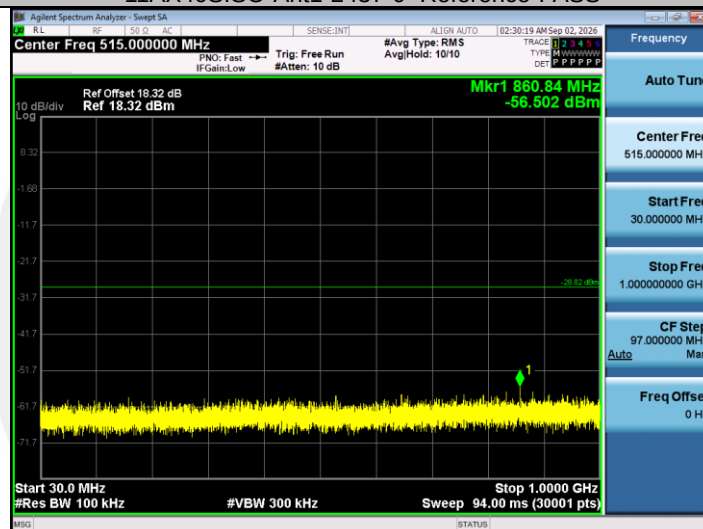
11AX40SISO-Ant1-2422-30~1000-PASS



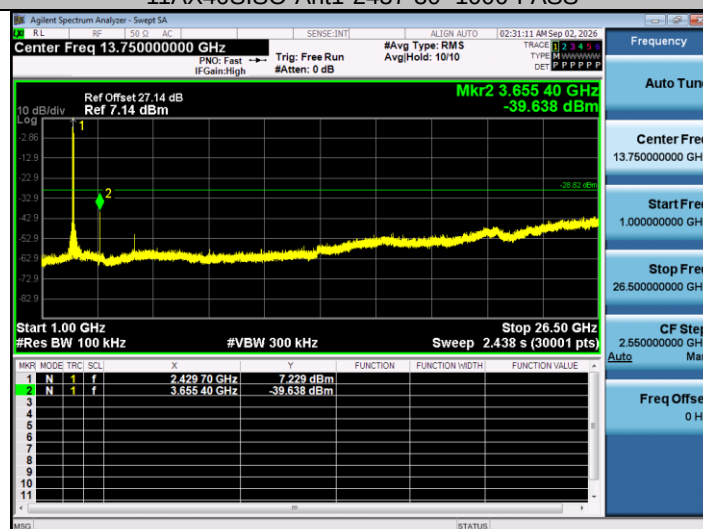
11AX40SISO-Ant1-2422-1000~26500-PASS



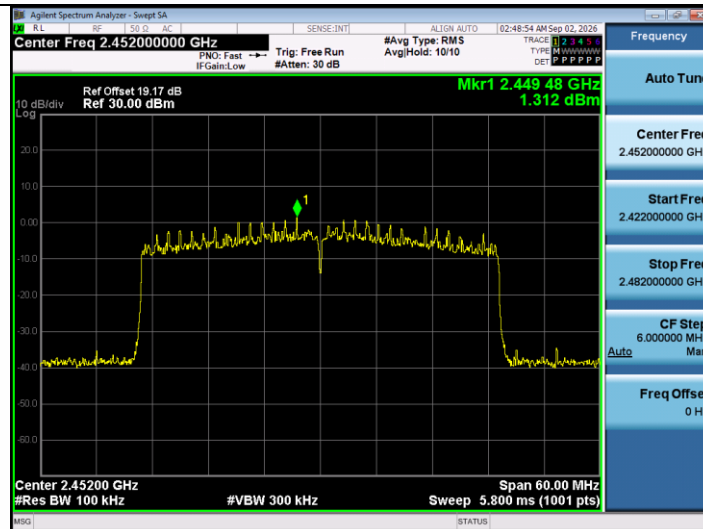
11AX40SISO-Ant1-2437-0~Reference-PASS



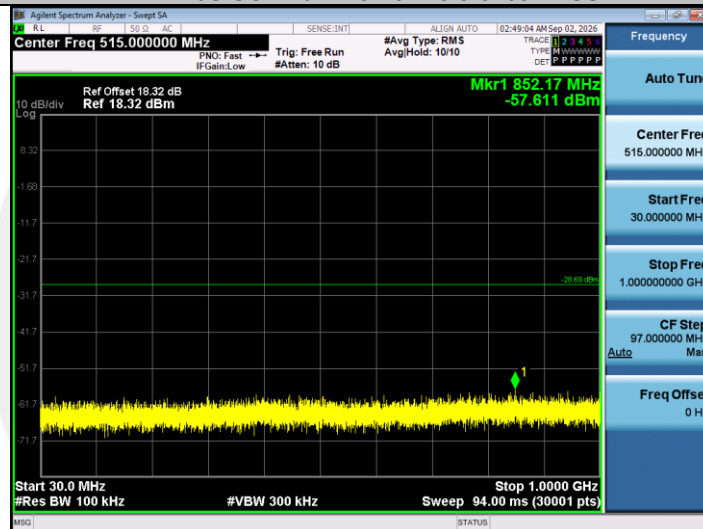
11AX40SISO-Ant1-2437-30~1000-PASS



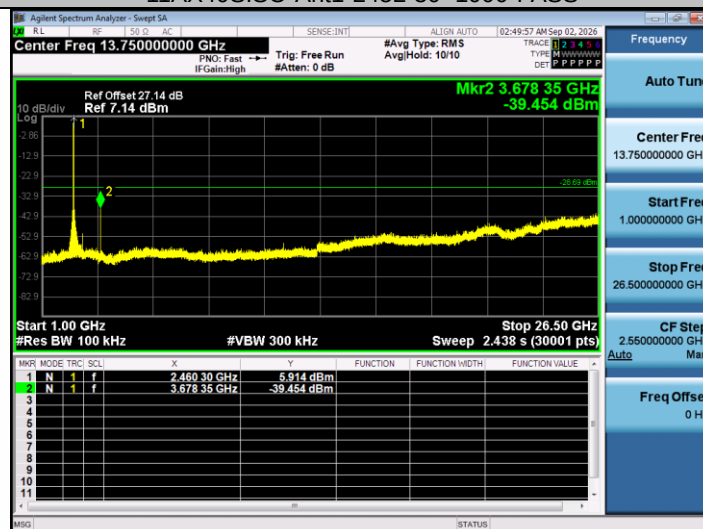
11AX40SISO-Ant1-2437-1000~26500-PASS



11AX40SISO-Ant1-2452-0~Reference-PASS



11AX40SISO-Ant1-2452-30~1000-PASS



11AX40SISO-Ant1-2452-1000~26500-PASS

8.6 RADIATED SPURIOUS EMISSION

8.6.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02
According to IC RSS-Gen and RSS-247

8.6.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205 the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V/m}$)	300
0.490-1.705	24000/F(KHz)	20 log ($\mu\text{V/m}$)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.6.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.6.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit. Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.6.5 Test Results

Temperature:	25° C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/ \text{test distance})$ (dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz(1GHz to 25GHz)

All the antenna(Antenna 1)and modes(802.11b/g/n/ax)have been tested and the worst(Antenna 1,802.11b) result recorded was report as below:

Test mode: 802.11b Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4950	V	46.69	31.22	74.00	54.00	27.31	22.78
8338.13	V	53.94	35.41	74.00	54.00	20.06	18.59
17970	V	64.51	46.27	74.00	54.00	9.49	7.73
4944.375	H	47.36	31.45	74.00	54.00	26.64	22.55
8364.375	H	54.32	35.62	74.00	54.00	19.68	18.38
17536.88	H	64.90	45.28	74.00	54.00	9.10	8.72

Test mode: 802.11b Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4788.75	V	46.96	31.26	74.00	54.00	27.04	22.74
8184.375	V	54.32	34.52	74.00	54.00	19.68	19.48
17985	V	64.40	46.28	74.00	54.00	9.60	7.72
4852.5	H	47.16	31.64	74.00	54.00	26.84	22.36
8345.625	H	53.89	35.28	74.00	54.00	20.11	18.72
17990.63	H	65.70	46.26	74.00	54.00	8.30	7.74

Test mode: 802.11b Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4833.75	V	46.54	31.02	74.00	54.00	27.46	22.98
8328.75	V	53.72	35.27	74.00	54.00	20.28	18.73
17021.25	V	63.87	44.64	74.00	54.00	10.13	9.36
4803.75	H	47.19	31.27	74.00	54.00	26.81	22.73
8311.875	H	54.05	34.66	74.00	54.00	19.95	19.34
17986.88	H	64.24	46.27	74.00	54.00	9.76	7.73

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

All the antenna(Antenna 1) and modes(802.11b/g/n) have been tested and the worst(Antenna 1,802.11n(HT20)) result recorded was report as below:

Test mode: 802.11n(HT20) Frequency: Channel 1: 2412MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2389.70	H	47.22	74.00	38.14	54.00
2387.33	V	49.90	74.00	38.52	54.00

Test mode: 802.11n(HT20) Frequency: Channel 11: 2462MHz

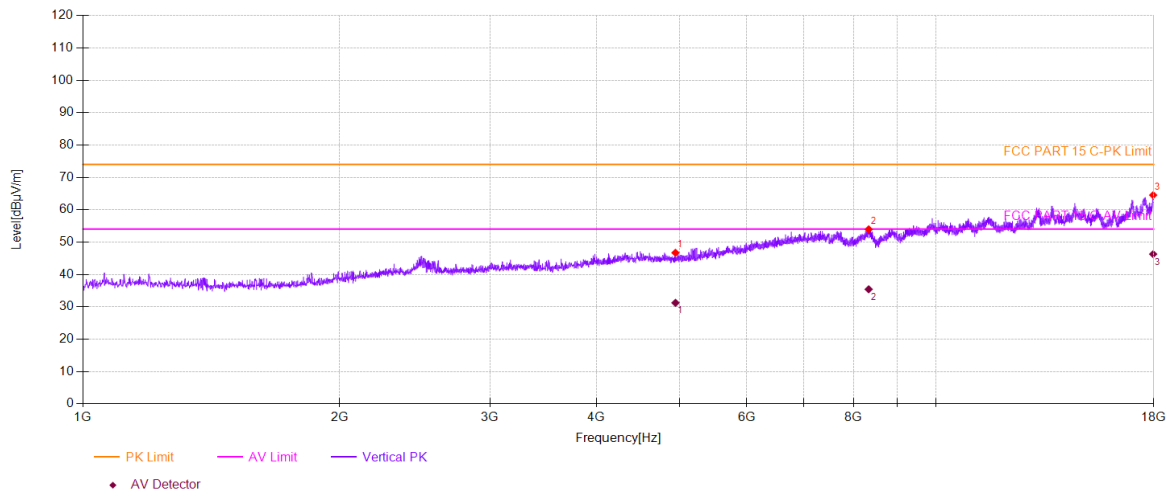
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.54	H	64.73	74.00	46.35	54.00
2483.50	V	70.16	74.00	45.14	54.00

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

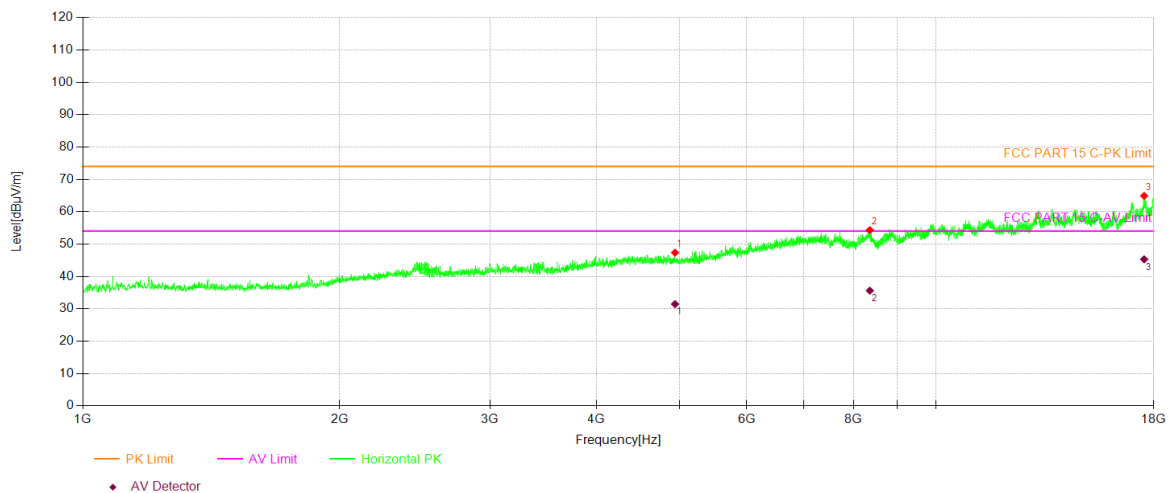
Spurious Emission above 1GHz (1GHz to 18GHz)

All modes have been tested, and the worst result recorded was report as below:

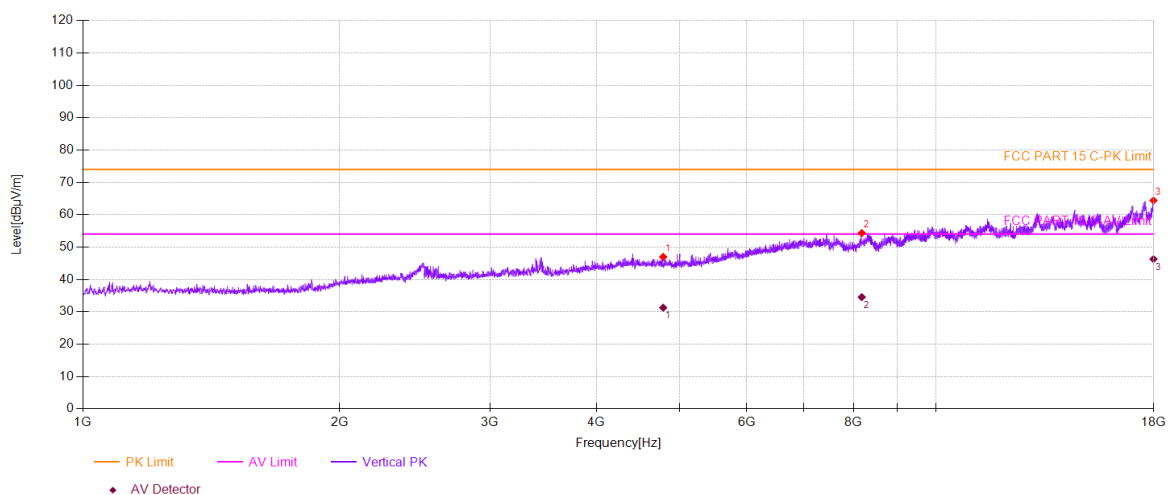
Test mode: GFSK Frequency: Channel 1: 2412MHz V



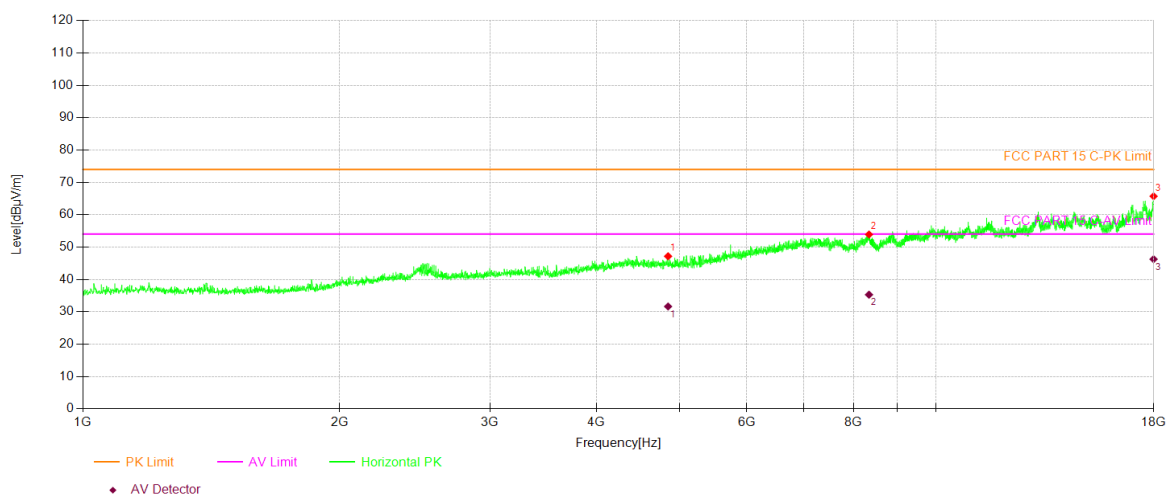
Test mode: GFSK Frequency: Channel 1: 2412MHz H



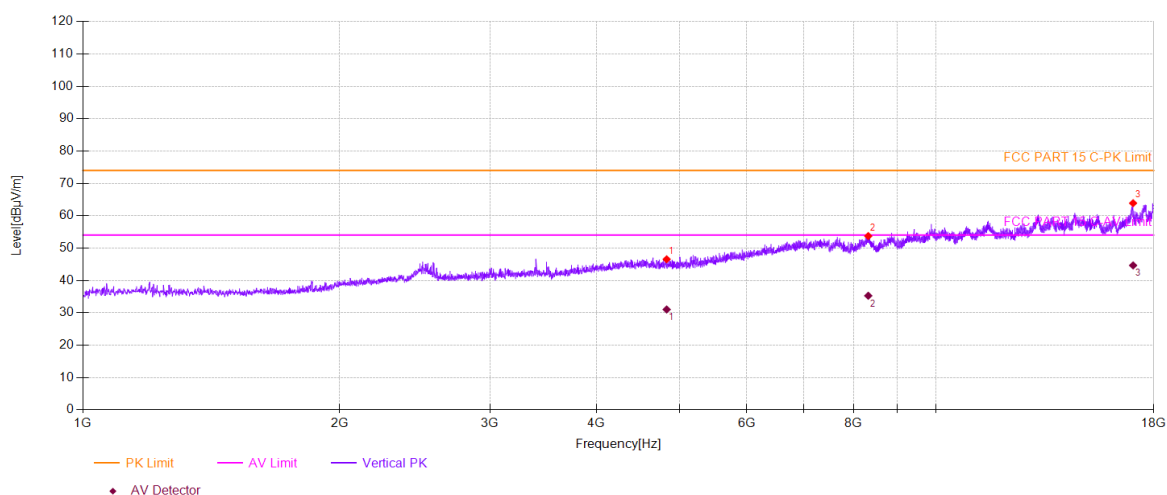
Test mode: GFSK Frequency: Channel 6: 2437MHz V



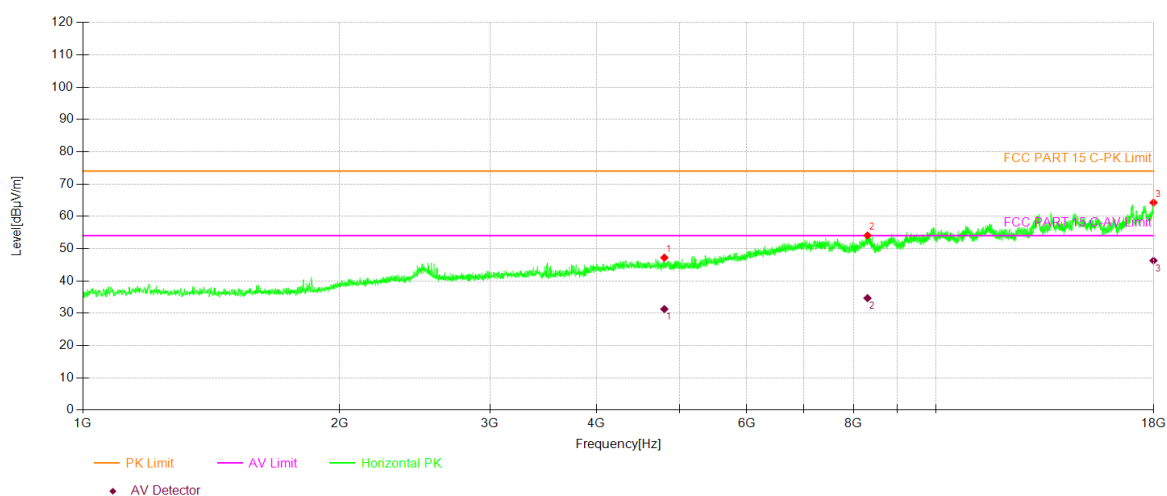
Test mode: GFSK Frequency: Channel 6: 2437MHz H



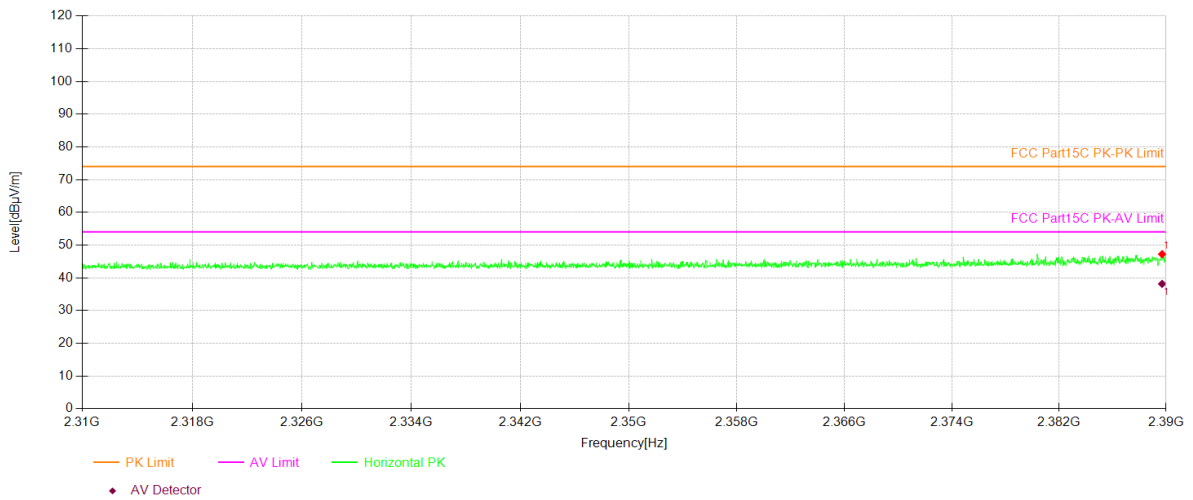
Test mode: GFSK Frequency: Channel 11: 2462MHz V



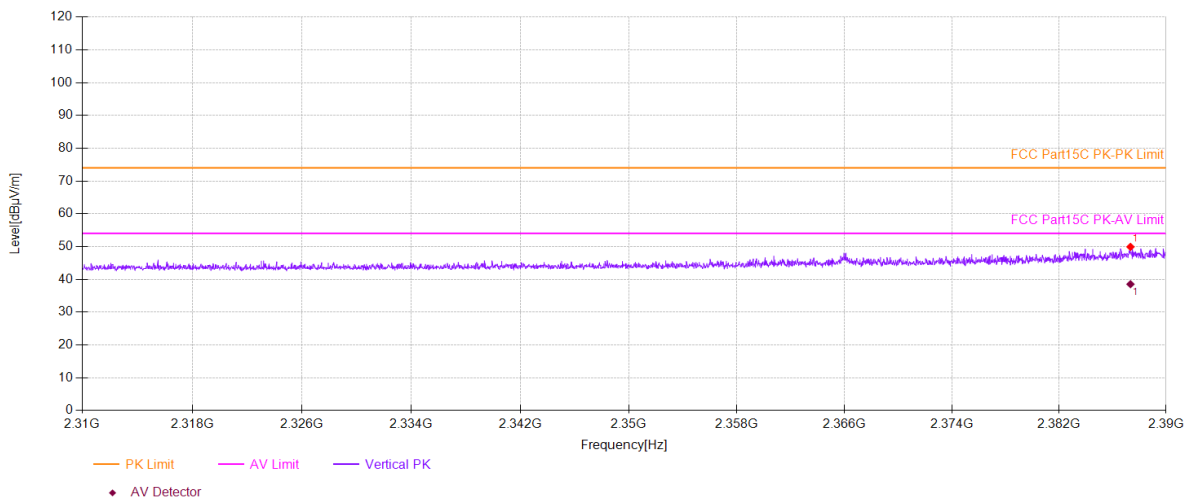
Test mode: GFSK Frequency: Channel 11: 2462MHz H



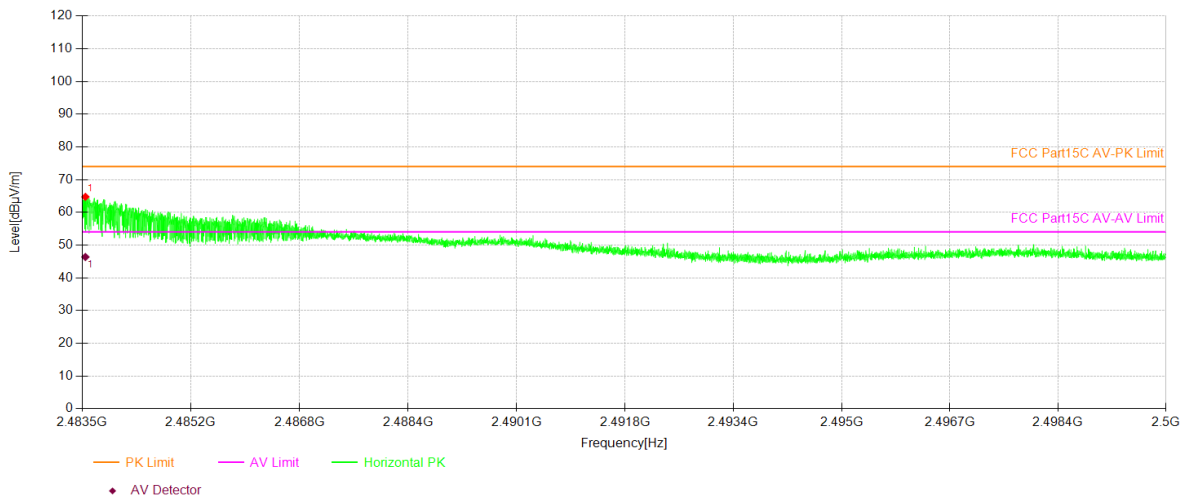
Test Model 802.11ax(HE20) Spurious Emission in Restricted Band 2310-2390MHz
Channel 1: 2412MHz VBW=3MHz Polarity: H



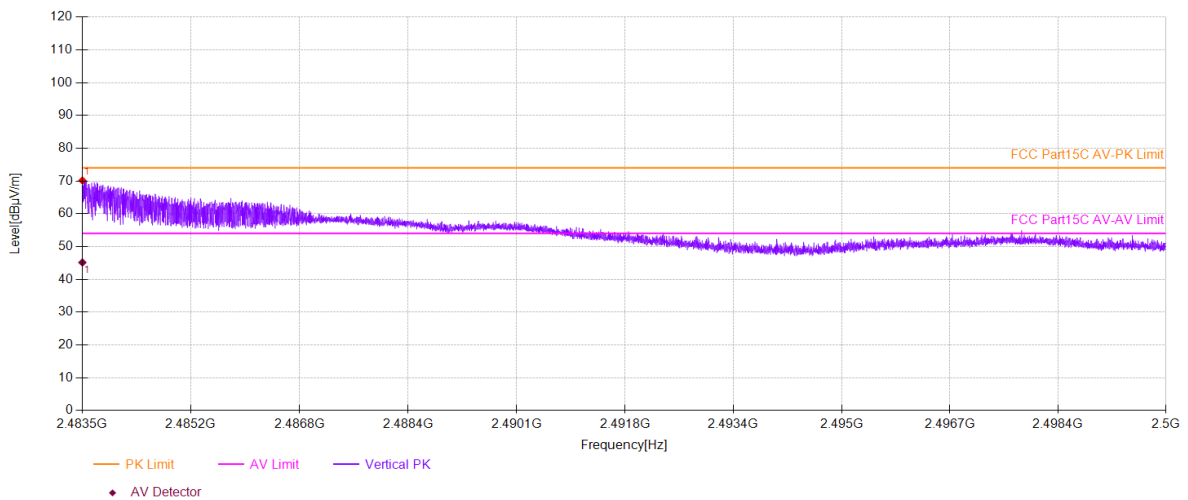
Test Model 802.11ax(HE20) Spurious Emission in Restricted Band 2310-2390MHz
Channel 1: 2412MHz VBW=3MHz Polarity: V



Test Model 802.11ax(HE20) Spurious Emission in Restricted Band 2483.5-2500MHz
Channel 11: 2462MHz VBW=3MHz Polarity: H



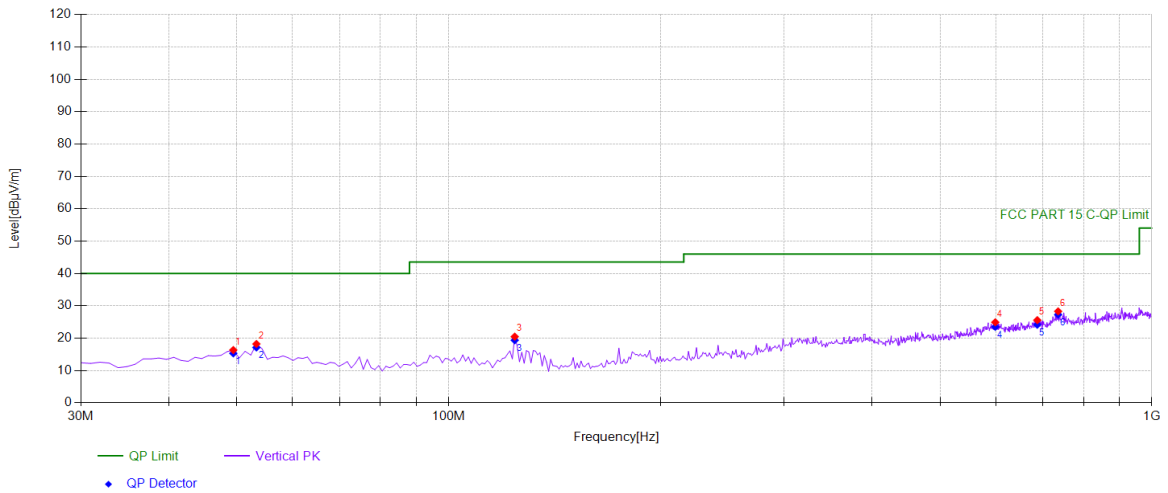
Test Model 802.11ax(HE20) Spurious Emission in Restricted Band 2483.5-2500MHz
Channel 11: 2462MHz VBW=3MHz Polarity: V



■ Spurious Emission below 1GHz (30MHz to 1GHz)

All the antenna(Antenna 1) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1,802.11b) result recorded was report as below:

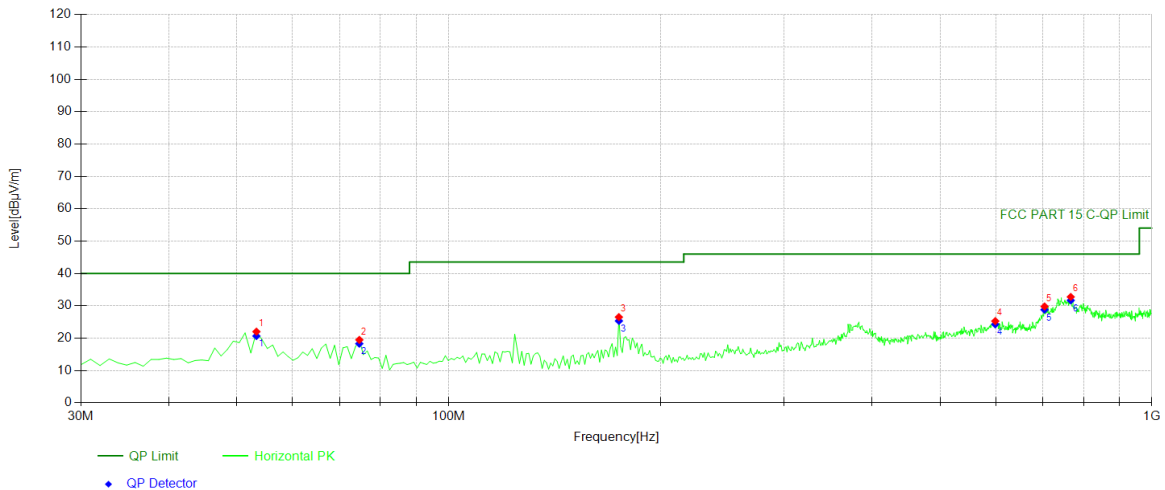
Mode:	11B 2412
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Suspected Data List								
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	49.4194	27.08	-10.75	16.33	PK	40.00	23.67	Vertical
2	53.3033	29.32	-11.11	18.21	PK	40.00	21.79	Vertical
3	124.1842	34.01	-13.55	20.46	PK	43.50	23.04	Vertical
4	598.9890	25.23	-0.32	24.91	PK	46.00	21.09	Vertical
5	687.3473	26.30	-0.74	25.56	PK	46.00	20.44	Vertical
6	735.8959	27.89	0.40	28.29	PK	46.00	17.71	Vertical

Final Data List						
NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	49.4194	26.06	-10.75	15.31	40.00	24.69
2	53.3033	28.22	-11.11	17.11	40.00	22.89
3	124.1842	32.91	-13.55	19.36	43.50	24.14
4	598.9890	23.81	-0.32	23.49	46.00	22.51
5	687.3473	24.88	-0.74	24.14	46.00	21.86
6	735.8959	26.88	0.40	27.28	46.00	18.72

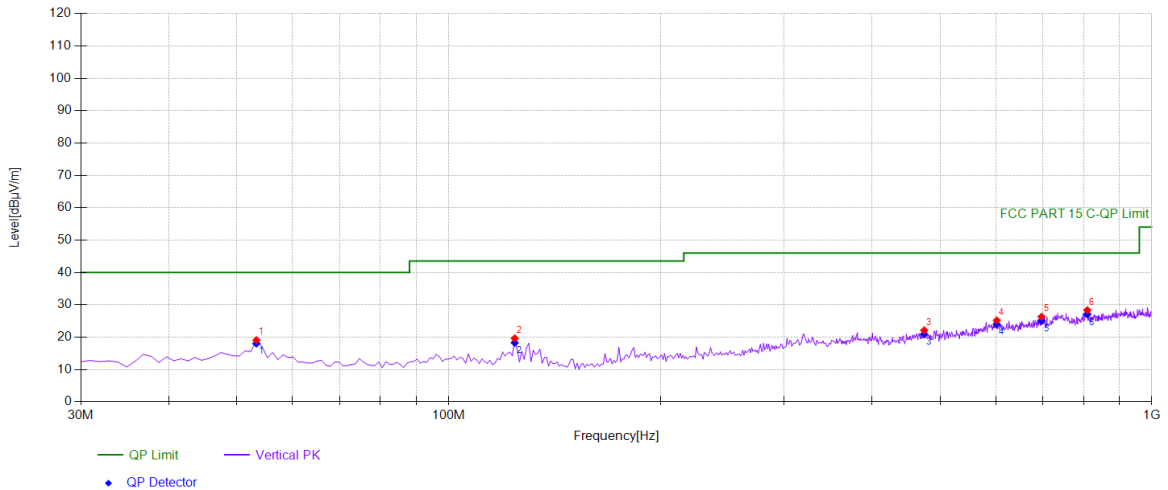
Mode:	11B 2412
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Suspected Data List								
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	53.3033	33.12	-11.11	22.01	PK	40.00	17.99	Horizontal
2	74.6647	33.62	-14.15	19.47	PK	40.00	20.53	Horizontal
3	174.6747	40.02	-13.51	26.51	PK	43.50	16.99	Horizontal
4	598.9890	25.58	-0.32	25.26	PK	46.00	20.74	Horizontal
5	703.8539	30.02	-0.23	29.79	PK	46.00	16.21	Horizontal
6	766.9670	33.62	-0.87	32.75	PK	46.00	13.25	Horizontal

Final Data List						
NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	53.3033	31.76	-11.11	20.65	40.00	19.35
2	74.6647	32.44	-14.15	18.29	40.00	21.71
3	174.6747	38.84	-13.51	25.33	43.50	18.17
4	598.9890	24.58	-0.32	24.26	46.00	21.74
5	703.8539	29.02	-0.23	28.79	46.00	17.21
6	766.9670	32.54	-0.87	31.67	46.00	14.33

Mode:	11B 2437
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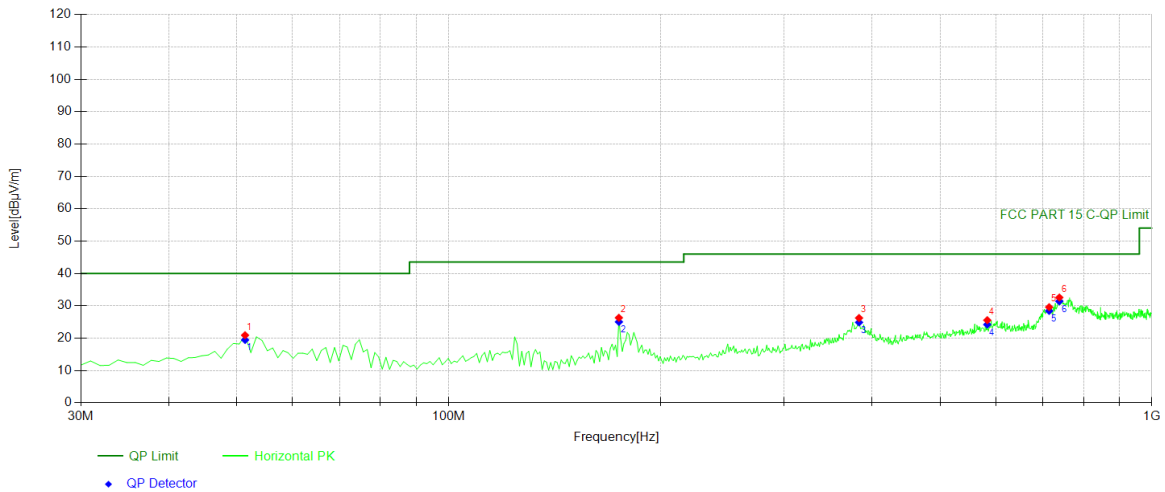
Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	53.3033	30.18	-11.11	19.07	PK	40.00	20.93	Vertical
2	124.1842	33.18	-13.55	19.63	PK	43.50	23.87	Vertical
3	474.7047	26.17	-4.06	22.11	PK	46.00	23.89	Vertical
4	601.9019	25.56	-0.38	25.18	PK	46.00	20.82	Vertical
5	697.0571	26.66	-0.36	26.30	PK	46.00	19.70	Vertical
6	809.6897	27.59	0.75	28.34	PK	46.00	17.66	Vertical

Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	53.3033	29.14	-11.11	18.03	40.00	21.97
2	124.1842	31.82	-13.55	18.27	43.50	25.23
3	474.7047	24.99	-4.06	20.93	46.00	25.07
4	601.9019	24.38	-0.38	24	46.00	22.00
5	697.0571	25.40	-0.36	25.04	46.00	20.96
6	809.6897	26.33	0.75	27.08	46.00	18.92

Mode:	11B 2437
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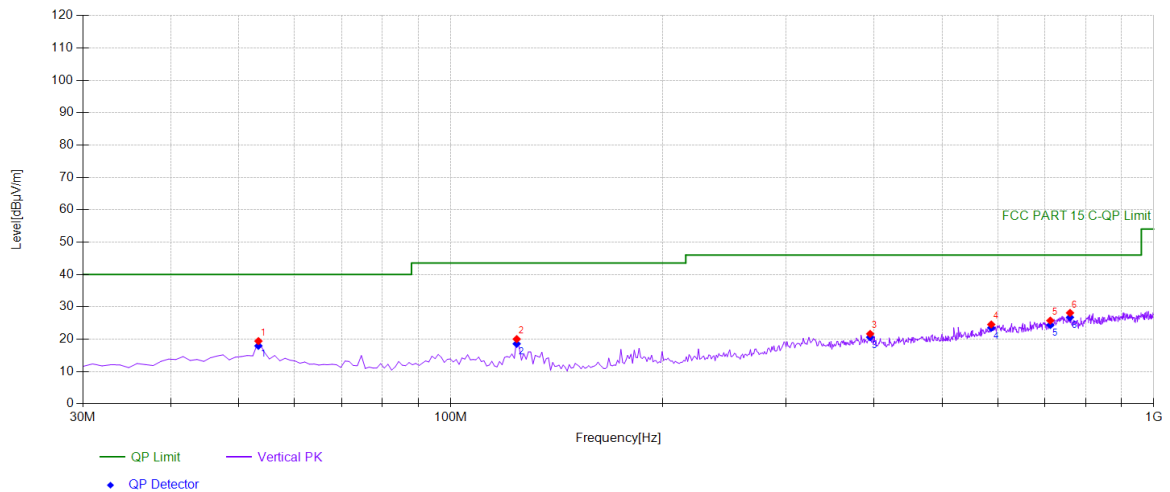
Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	51.3614	31.75	-10.85	20.90	PK	40.00	19.10	Horizontal
2	174.6747	39.81	-13.51	26.30	PK	43.50	17.20	Horizontal
3	383.4334	32.01	-5.78	26.23	PK	46.00	19.77	Horizontal
4	583.4535	26.74	-1.19	25.55	PK	46.00	20.45	Horizontal
5	714.5345	29.73	-0.14	29.59	PK	46.00	16.41	Horizontal
6	738.8088	32.09	0.47	32.56	PK	46.00	13.44	Horizontal

Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	51.3614	30.30	-10.85	19.45	40.00	20.55
2	174.6747	38.54	-13.51	25.03	43.50	18.47
3	383.4334	30.66	-5.78	24.88	46.00	21.12
4	583.4535	25.39	-1.19	24.2	46.00	21.80
5	714.5345	28.56	-0.14	28.42	46.00	17.58
6	738.8088	30.92	0.47	31.39	46.00	14.61

Mode:	11B 2462
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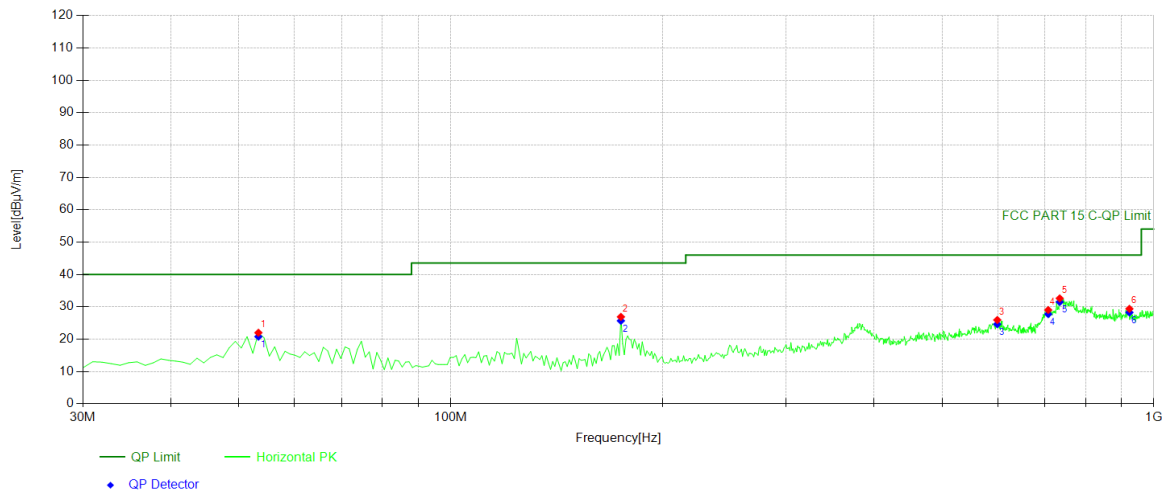
Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	53.3033	30.51	-11.11	19.40	PK	40.00	20.60	Vertical
2	124.1842	33.57	-13.55	20.02	PK	43.50	23.48	Vertical
3	395.0851	27.22	-5.58	21.64	PK	46.00	24.36	Vertical
4	587.3373	25.48	-0.94	24.54	PK	46.00	21.46	Vertical
5	712.5926	25.91	-0.17	25.74	PK	46.00	20.26	Vertical
6	760.1702	28.79	-0.68	28.11	PK	46.00	17.89	Vertical

Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	53.3033	29.05	-11.11	17.94	40.00	22.06
2	124.1842	32.11	-13.55	18.56	43.50	24.94
3	395.0851	26.18	-5.58	20.6	46.00	25.40
4	587.3373	24.44	-0.94	23.5	46.00	22.50
5	712.5926	24.55	-0.17	24.38	46.00	21.62
6	760.1702	27.43	-0.68	26.75	46.00	19.25

Mode:	11B 2462
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Suspected Data List								
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	53.3033	33.10	-11.11	21.99	PK	40.00	18.01	Horizontal
2	174.6747	40.40	-13.51	26.89	PK	43.50	16.61	Horizontal
3	598.9890	26.24	-0.32	25.92	PK	46.00	20.08	Horizontal
4	707.7377	29.23	-0.21	29.02	PK	46.00	16.98	Horizontal
5	734.9249	32.23	0.38	32.61	PK	46.00	13.39	Horizontal
6	923.2933	26.74	2.64	29.38	PK	46.00	16.62	Horizontal

Final Data List						
NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	53.3033	31.88	-11.11	20.77	40.00	19.23
2	174.6747	39.18	-13.51	25.67	43.50	17.83
3	598.9890	24.94	-0.32	24.62	46.00	21.38
4	707.7377	27.93	-0.21	27.72	46.00	18.28
5	734.9249	31.10	0.38	31.48	46.00	14.52
6	923.2933	25.61	2.64	28.25	46.00	17.75

8.7 CONDUCTED EMISSION TEST

8.7.1 Applicable Standard

According to FCC Part 15.207(a)

According to IC RSS-Gen 8.8

8.7.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.7.3 Test Configuration

Test according to clause 6.3conducted emission test setup

8.7.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.7.5 Test Results

N/A

The product is powered by DC

8.8 ANTENNA APPLICATION

8.8.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.
RSS-247 Section 5.4	If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

8.8.2 Result

PASS.

- Note:
- ☒ Antenna use a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached document Internal Photos to show the antenna connector.

*** End of Report ***