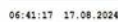


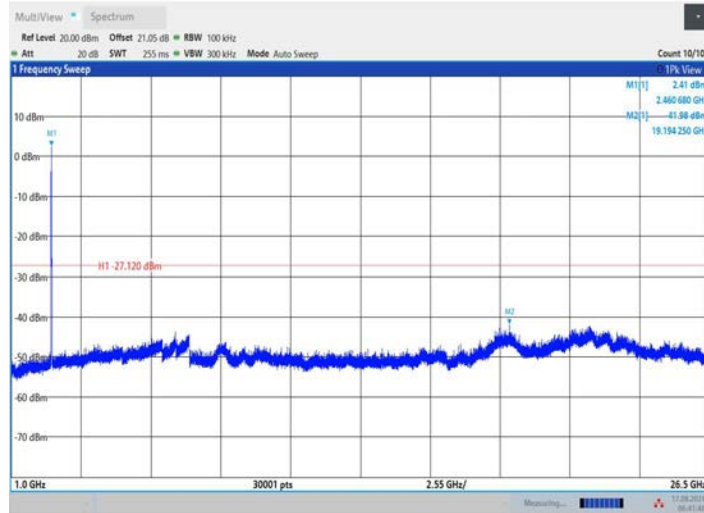
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11BE20MIMO_Ant2_2462_30~1000

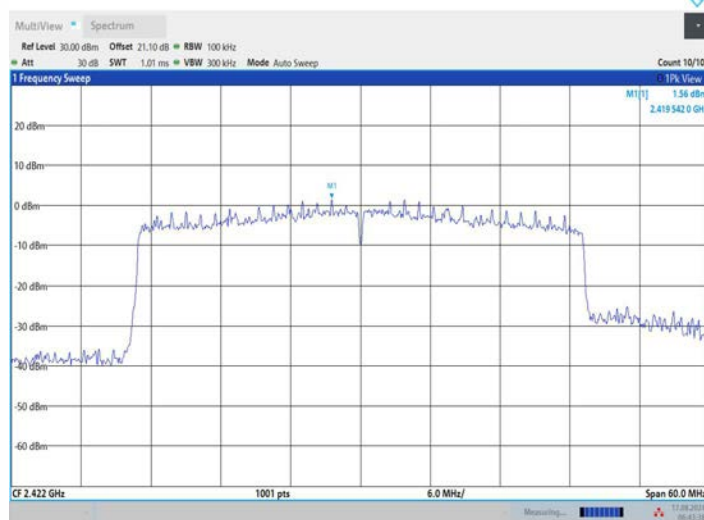


11BE20MIMO_Ant2_2462_1000~26500



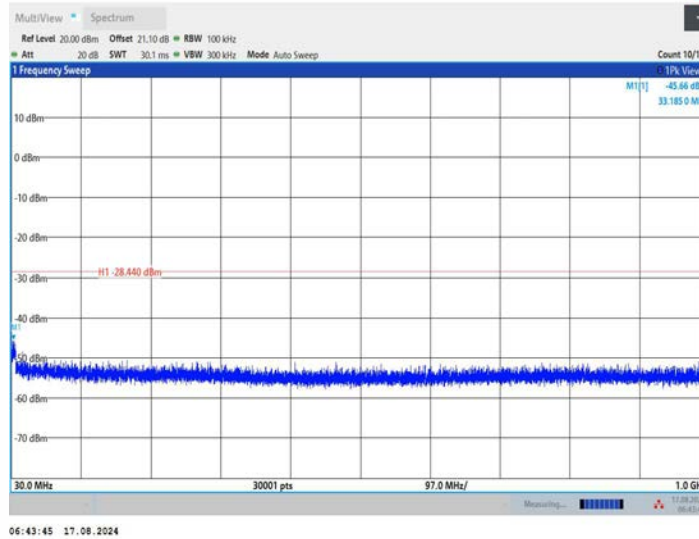
06:41:46 17.08.2024

11BE40MIMO_Ant1_2422_0~Reference

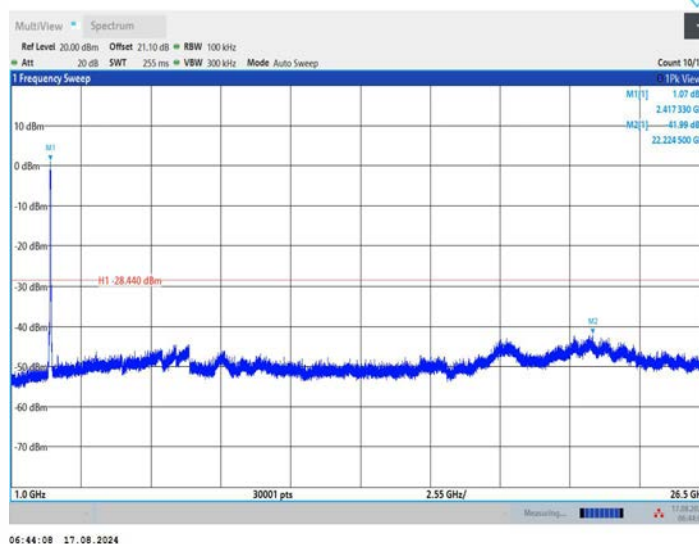


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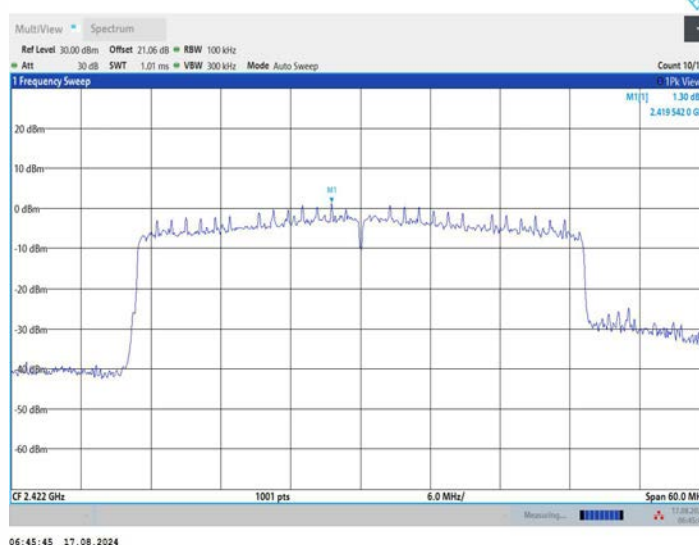
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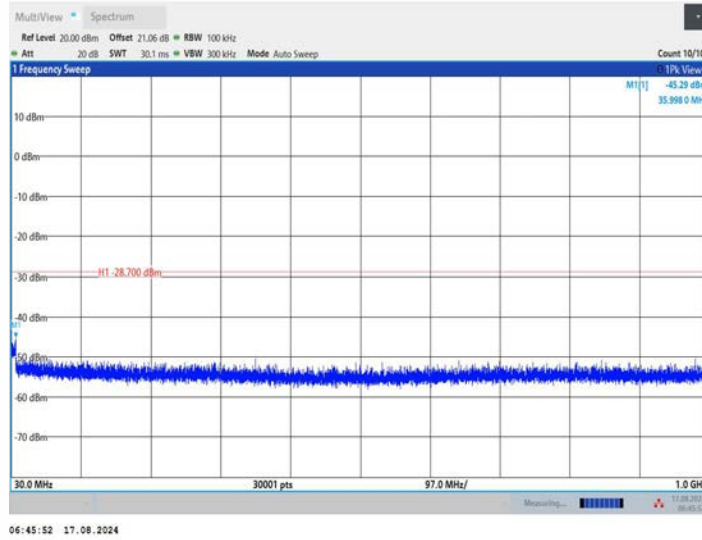
11BE40MIMO_Ant1_2422_1000~26500



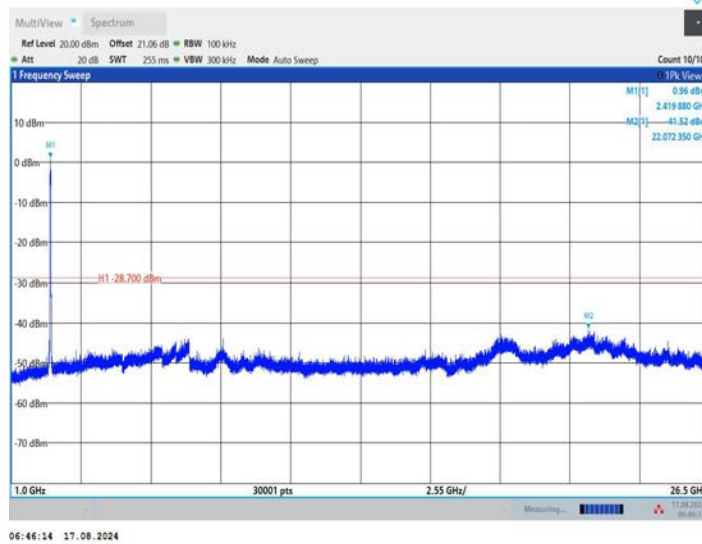
11BE40MIMO_Ant2_2422_0~Reference



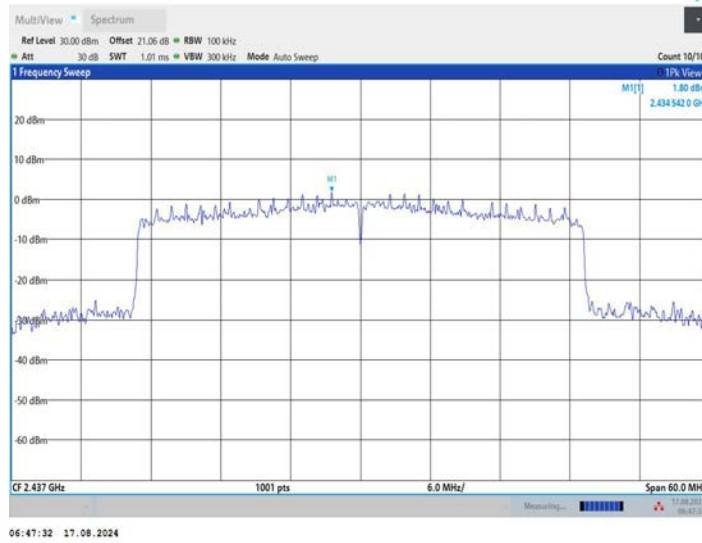
11BE40MIMO_Ant2_2422_30~1000



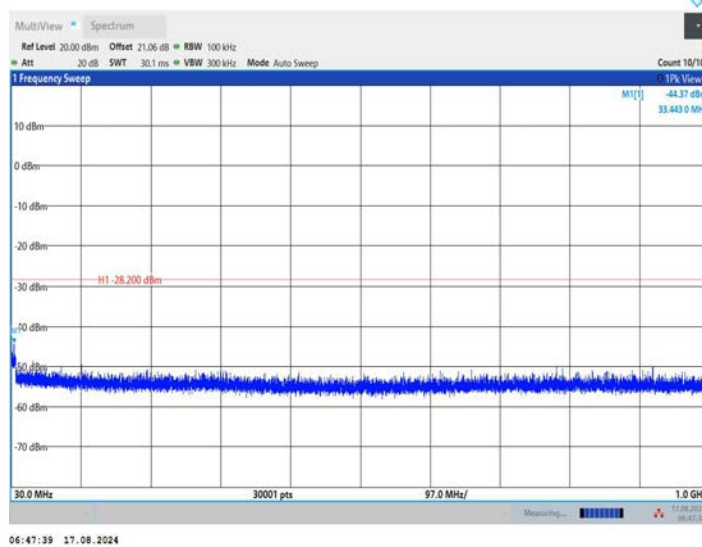
11BE40MIMO_Ant2_2422_1000~26500



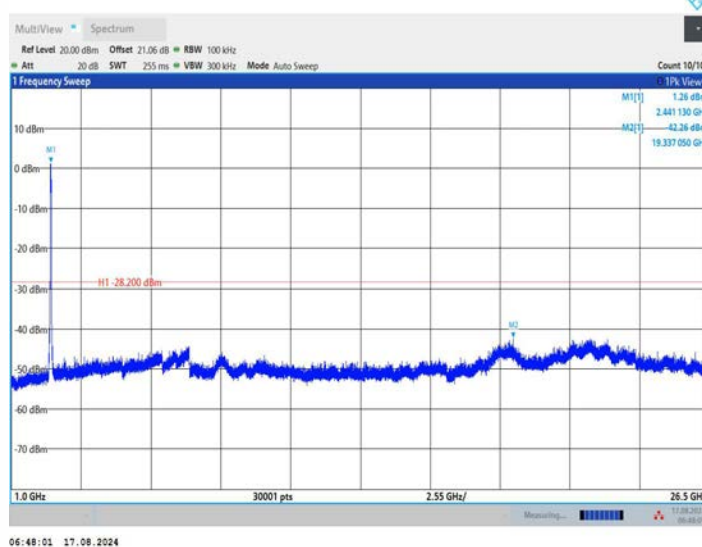
11BE40MIMO_Ant1_2437_0~Reference



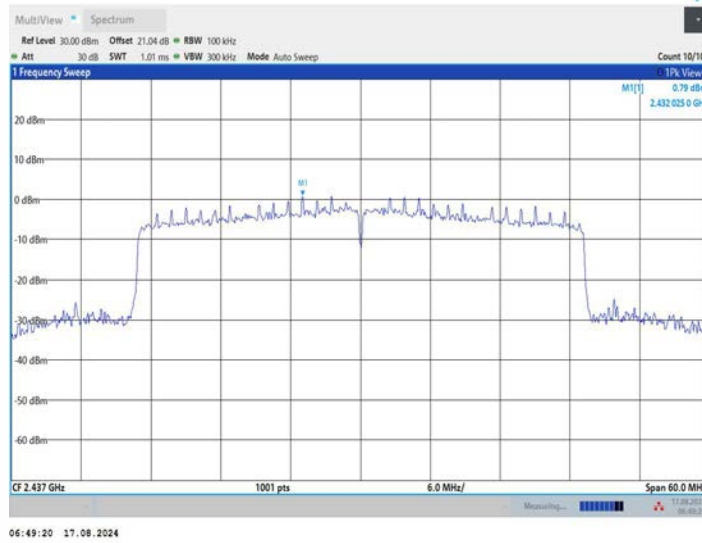
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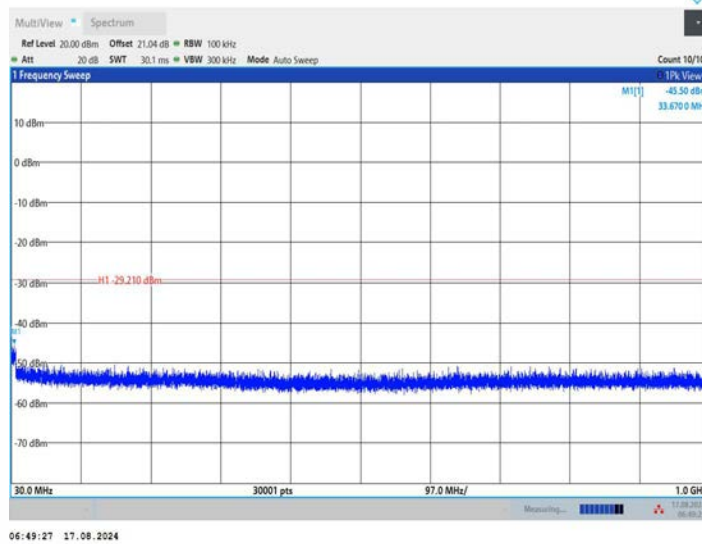
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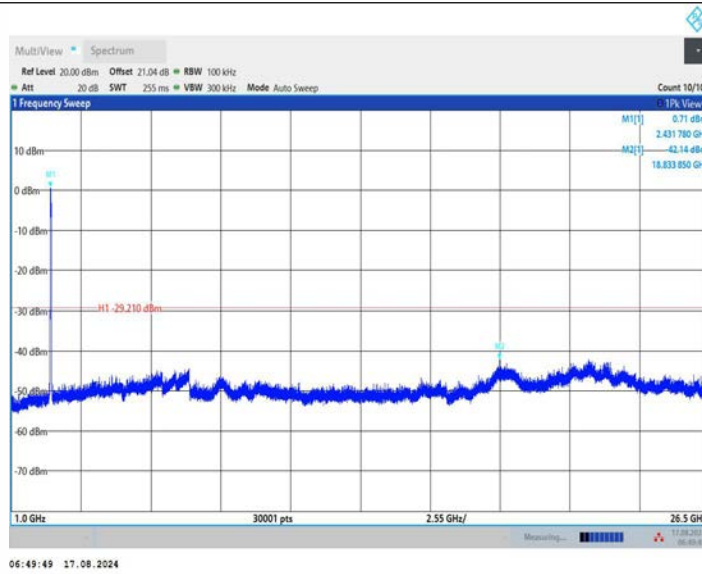
11BE40MIMO_Ant2_2437_0~Reference



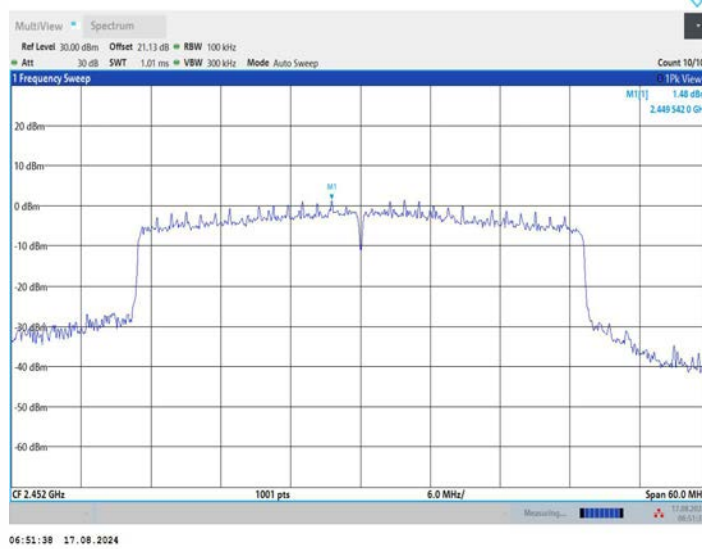
11BE40MIMO_Ant2_2437_30~1000



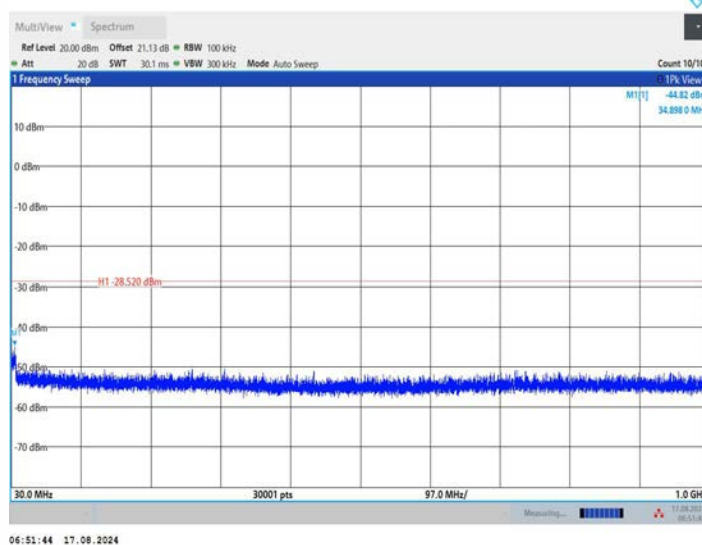
11BE40MIMO_Ant2_2437_1000~26500



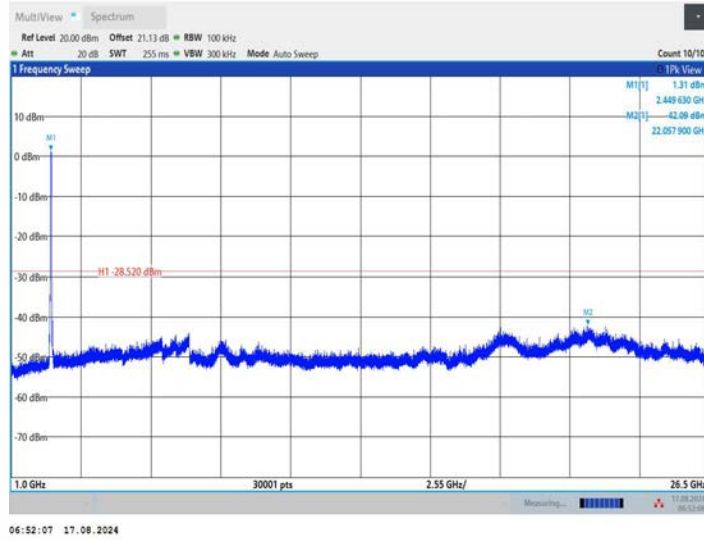
11BE40MIMO_Ant1_2452_0~Reference



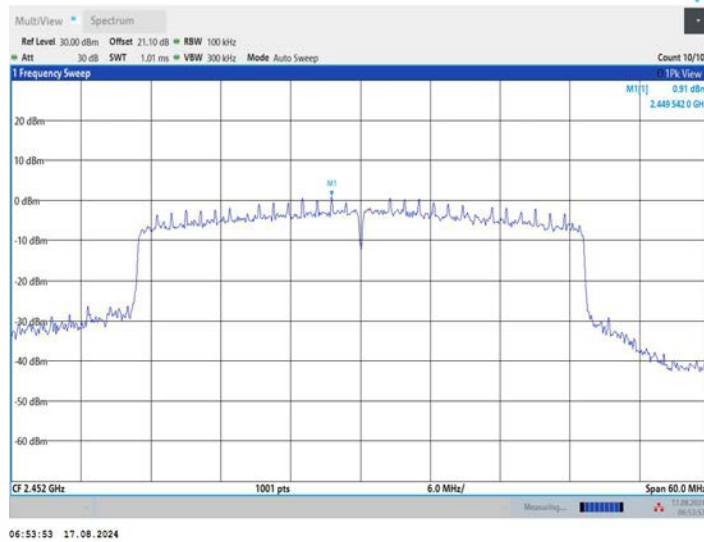
11BE40MIMO_Ant1_2452_30~1000



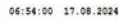
11BE40MIMO_Ant1_2452_1000~26500



11BE40MIMO_Ant2_2452_0~Reference



11BE40MIMO_Ant2_2452_30~1000



11BE40MIMO_Ant2_2452_1000~2650



7.5 RADIATED EMISSION

7.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02.

7.5.2 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 (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/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

7.5.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2.

7.5.4 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 ≥ 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.

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.

7.5.5 Test Results

Temperature : 25°C

Humidity : 60 %

ATM Pressure:: 1011 mbar

Test Engineer: HZB

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

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

Note: Data of measurement within this frequency range shown “ -- ” in the table above means 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 25GHz)

All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT1 and MIMO as below:

ANT1:

Test mode:	802.11n(20)	Frequency:	Channel 1: 2412MHz
------------	-------------	------------	--------------------

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4822.5	V	52.68	74.00	21.32	Peak
11045.625	V	67.38	74.00	6.62	Peak
17840.625	V	67.52	74.00	6.48	Peak
4822.5	V	44.83	54.00	9.17	Avg
11045.625	V	45.95	54.00	8.05	Avg
17840.625	V	46.80	54.00	7.20	Avg
4824.375	H	51.52	74.00	22.48	Peak
11092.5	H	67.22	74.00	6.78	Peak
17495.625	H	67.98	74.00	6.02	Peak
4824.375	H	42.23	54.00	11.77	Avg
11092.5	H	45.25	54.00	8.75	Avg
17495.625	H	47.96	54.00	6.04	Avg

Test mode:	802.11n(20)	Frequency:	Channel 6: 2437MHz
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Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
8653.125	V	63.72	74.00	10.28	Peak
10166.25	V	66.40	74.00	7.60	Peak
17272.5	V	67.71	74.00	6.29	Peak
8653.125	V	44.68	54.00	9.32	Avg
10166.25	V	44.72	54.00	9.28	Avg
17272.5	V	44.75	54.00	9.25	Avg
8533.125	H	64.16	74.00	9.84	Peak
10565.625	H	66.70	74.00	7.30	Peak
17701.875	H	67.53	74.00	6.47	Peak
8533.125	H	45.01	54.00	8.99	Avg
10565.625	H	46.33	54.00	7.67	Avg
17701.875	H	47.14	54.00	6.86	Avg

Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
8988.75	V	64.89	74.00	9.11	Peak
12315	V	66.96	74.00	7.04	Peak
17128.125	V	67.71	74.00	6.29	Peak
8988.75	V	46.99	54.00	7.01	Avg
12315	V	46.94	54.00	7.06	Avg
17128.125	V	44.92	54.00	9.08	Avg
9225	H	64.29	74.00	9.71	Peak
11956.875	H	66.96	74.00	7.04	Peak
17971.875	H	67.65	74.00	6.35	Peak
9225	H	45.75	54.00	8.25	Avg
11956.875	H	45.62	54.00	8.38	Avg
17971.875	H	47.40	54.00	6.60	Avg

MIMO:

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
4821.110	V	52.55	74.00	21.45	Peak
11044.235	V	67.22	74.00	6.78	Peak
17841.905	V	67.49	74.00	6.51	Peak
4823.780	V	44.81	54.00	9.19	Avg
11043.375	V	45.69	54.00	8.31	Avg
17838.375	V	46.61	54.00	7.39	Avg
4836.065	H	51.44	74.00	22.56	Peak
11104.190	H	67.01	74.00	6.99	Peak
17507.315	H	67.82	74.00	6.18	Peak
4836.065	H	42.09	54.00	11.91	Avg
11089.190	H	45.07	54.00	8.93	Avg
17492.315	H	47.83	54.00	6.17	Avg

Test mode: 802.11n(20) Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
8651.735	V	63.59	74.00	10.41	Peak
10164.860	V	66.24	74.00	7.76	Peak
17273.780	V	67.68	74.00	6.32	Peak
8654.405	V	44.66	54.00	9.34	Avg
10164.000	V	44.46	54.00	9.54	Avg
17270.250	V	44.56	54.00	9.44	Avg
8544.815	H	64.08	74.00	9.92	Peak
10577.315	H	66.49	74.00	7.51	Peak
17713.565	H	67.37	74.00	6.63	Peak
8544.815	H	44.87	54.00	9.13	Avg
10562.315	H	46.15	54.00	7.85	Avg
17698.565	H	47.01	54.00	6.99	Avg

Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
8987.360	V	64.76	74.00	9.24	Peak
12313.610	V	66.8	74.00	7.2	Peak
17129.405	V	67.68	74.00	6.32	Peak
8990.030	V	46.97	54.00	7.03	Avg
12312.750	V	46.68	54.00	7.32	Avg
17125.875	V	44.73	54.00	9.27	Avg
9236.690	H	64.21	74.00	9.79	Peak
11968.565	H	66.75	74.00	7.25	Peak
17983.565	H	67.49	74.00	6.51	Peak
9236.690	H	45.61	54.00	8.39	Avg
11953.565	H	45.44	54.00	8.56	Avg
17968.565	H	47.27	54.00	6.73	Avg

- 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 of the configurations or modes are tested, the data of the worst case is recorded in the report.

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2388.77	V	45.98	74.00	28.02	Peak
2388.77	V	38.83	54.00	15.17	Avg
2384.37	H	55.01	74.00	18.99	Peak
2384.37	H	47.57	54.00	6.43	Avg

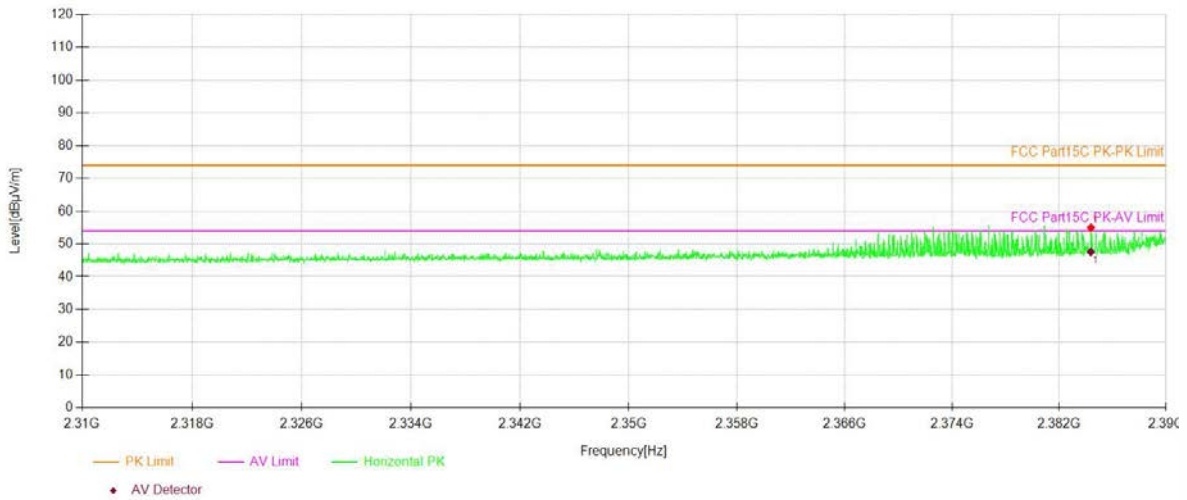
Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2484.71	V	46.76	74.00	27.24	Peak
2484.71	V	39.44	54.00	14.56	Avg
2484.16	H	51.42	74.00	22.58	Peak
2484.16	H	40.03	54.00	13.97	Avg

- 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.

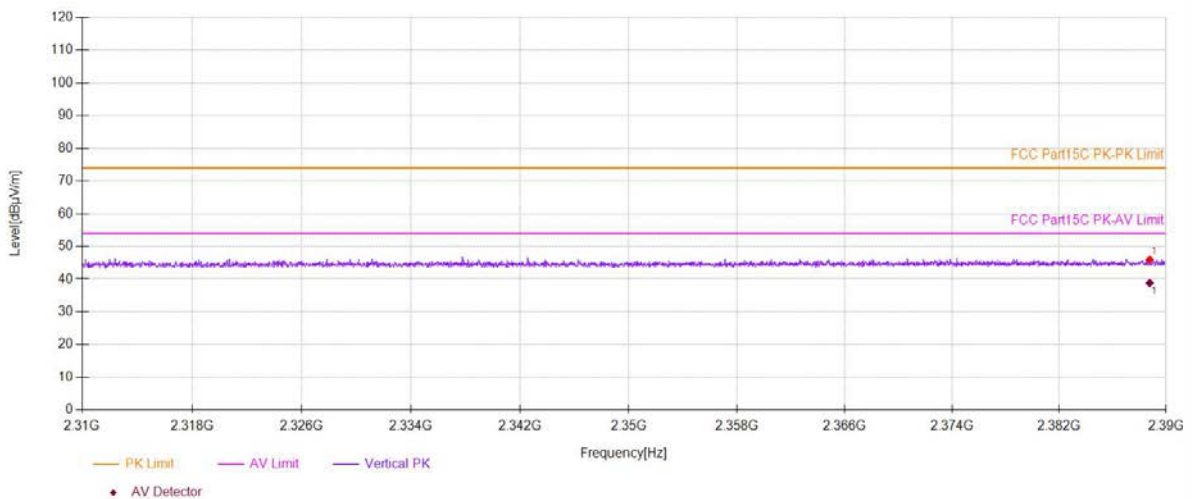
Spurious Emission in Restricted Band 2310-2390MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 1:2412MHz ☐ Channel 3: 2422MHz Polarity: H
 VBW=3MHz



Spurious Emission in Restricted Band 2310-2390MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 1:2412MHz ☐ Channel 3: 2422MHz Polarity: V
 VBW=3MHz

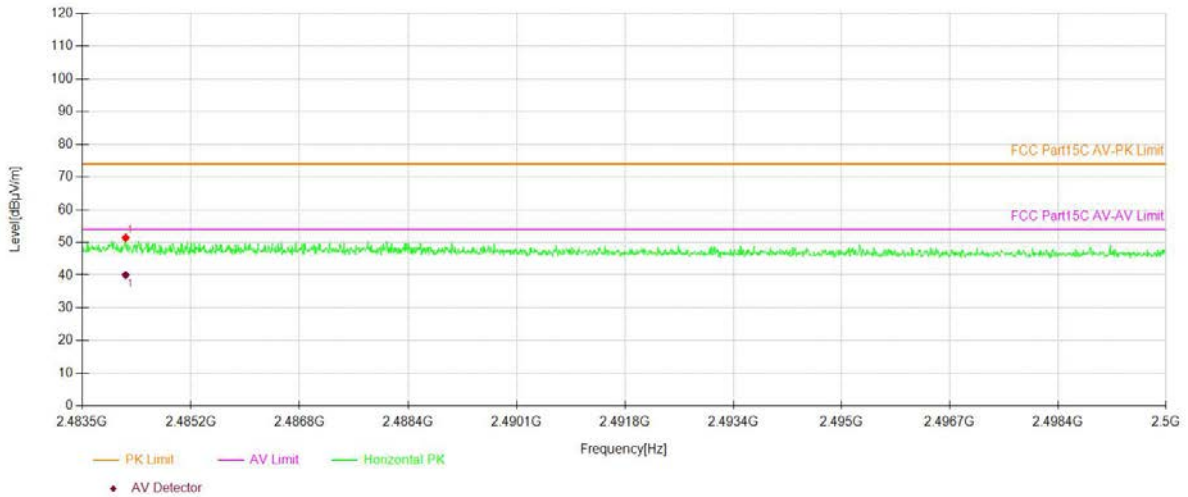


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz Polarity: H

VBW=3MHz

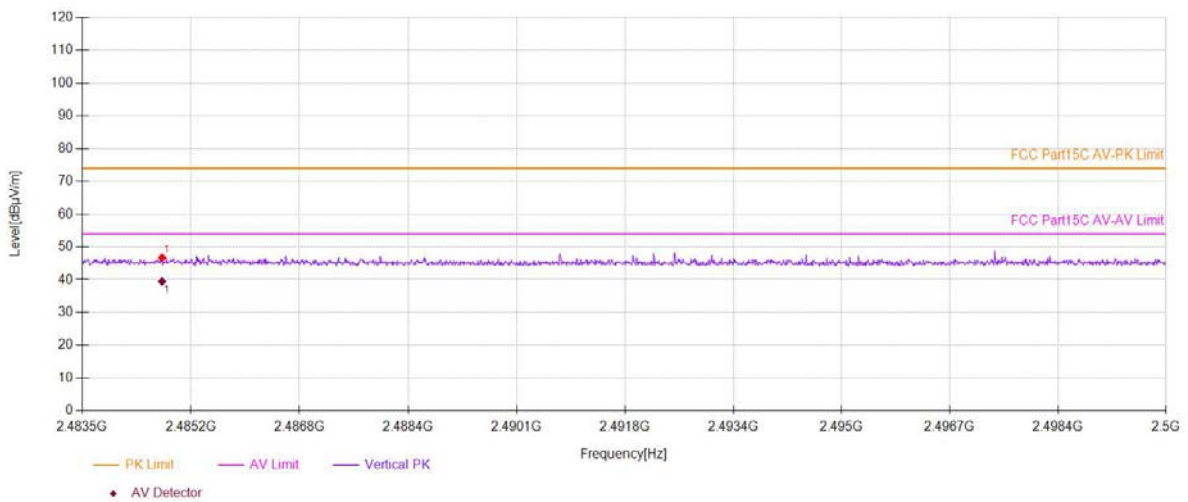


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz Polarity: V

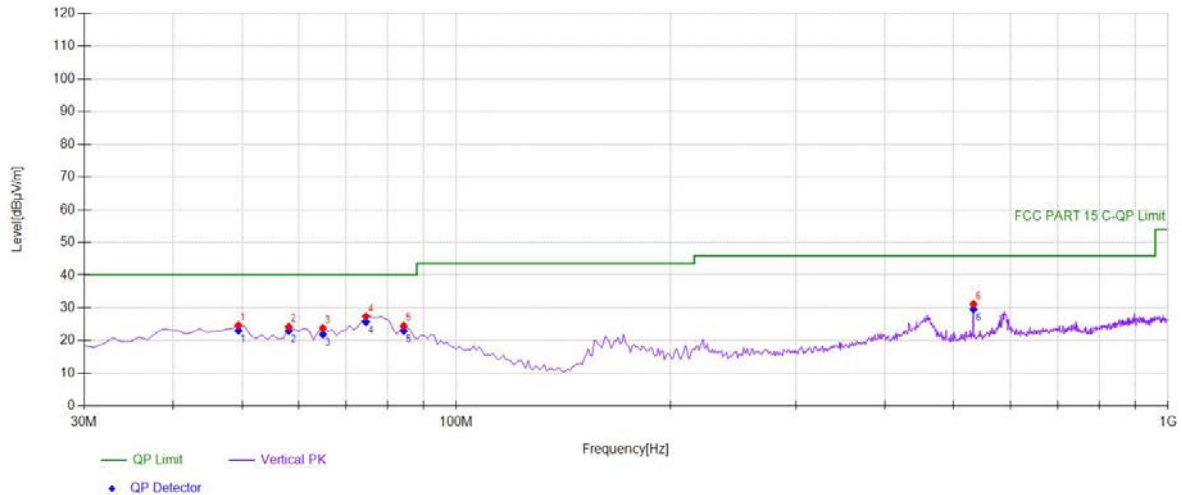
VBW=3MHz



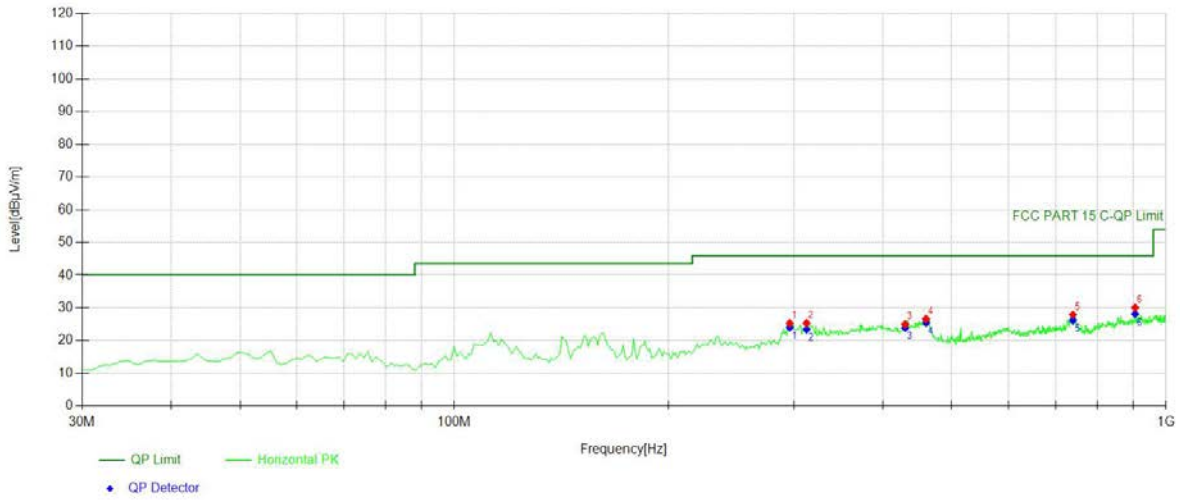
■ Spurious Emission below 1GHz (30MHz to 1GHz)

All of the configurations or modes are tested, the data of the worst case is recorded in the report.

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz



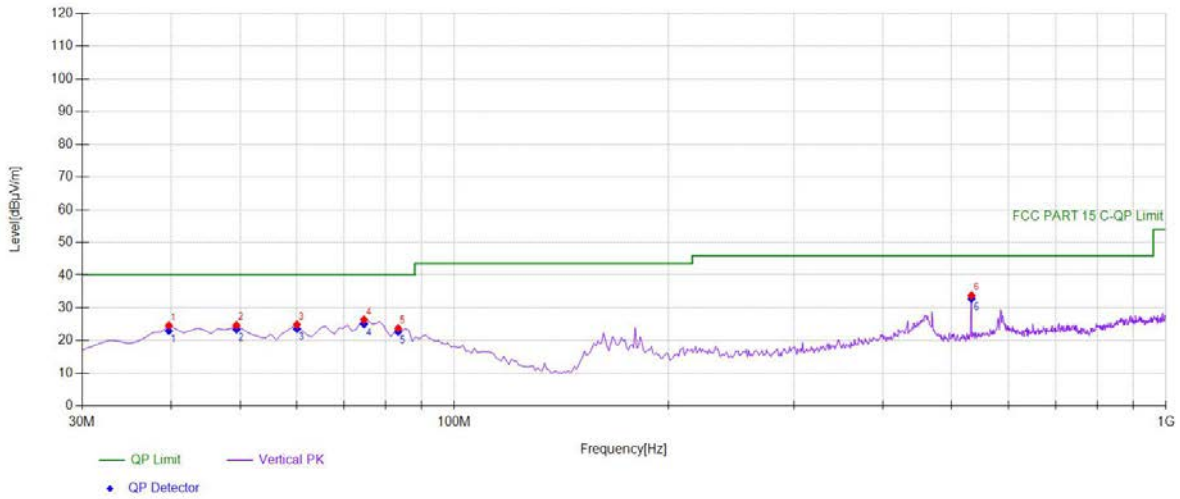
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	49.4194	40.75	-16.09	24.66	PK	40.00	15.34	Vertical
2	58.1582	41.29	-17.08	24.21	PK	40.00	15.79	Vertical
3	64.955	41.82	-18.00	23.82	PK	40.00	16.18	Vertical
4	74.6647	46.79	-19.40	27.39	PK	40.00	12.61	Vertical
5	84.3744	44.04	-19.52	24.52	PK	40.00	15.48	Vertical
6	532.963	40.59	-9.45	31.14	PK	46.00	14.86	Vertical



Suspected Data List

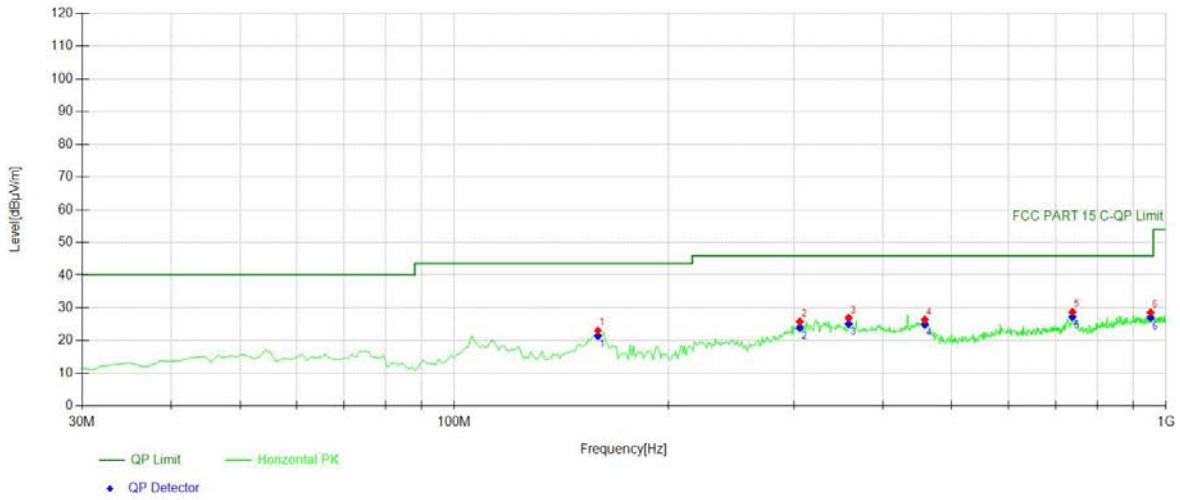
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	296.046	39.43	-14.11	25.32	PK	46.00	20.68	Horizontal
2	312.552	39.10	-13.75	25.35	PK	46.00	20.65	Horizontal
3	430.04	36.46	-11.45	25.01	PK	46.00	20.99	Horizontal
4	460.140	36.93	-10.34	26.59	PK	46.00	19.41	Horizontal
5	739.779	33.57	-5.66	27.91	PK	46.00	18.09	Horizontal

Test mode: 802.11n(20) Frequency: Channel 6: 2437MHz



Suspected Data List

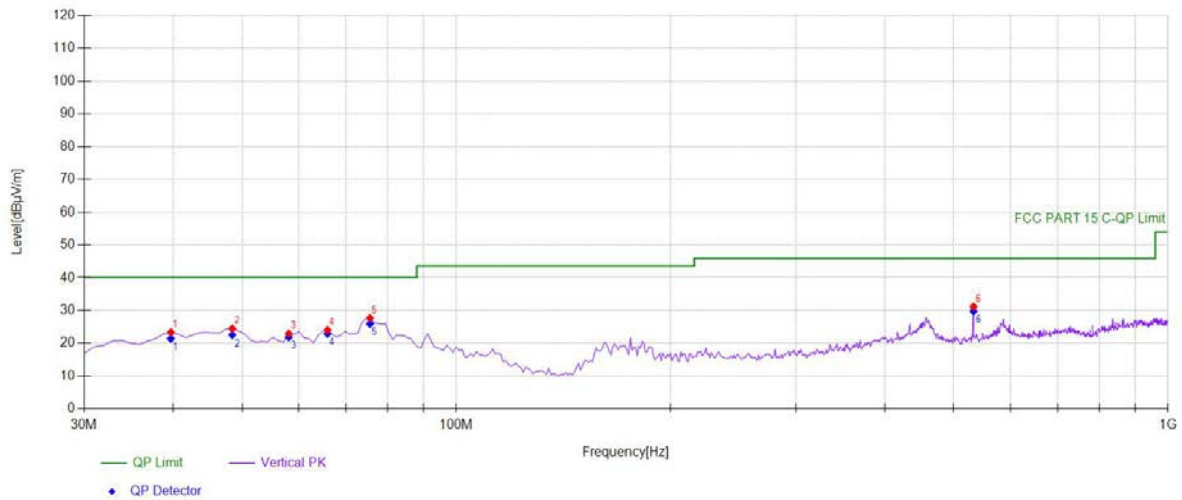
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	39.7097	42.07	-17.45	24.62	PK	40.00	15.38	Vertical
2	49.4194	40.78	-16.09	24.69	PK	40.00	15.31	Vertical
3	60.1001	42.20	-17.33	24.87	PK	40.00	15.13	Vertical
4	74.6647	45.75	-19.40	26.35	PK	40.00	13.65	Vertical
5	83.4034	43.44	-19.67	23.77	PK	40.00	16.23	Vertical
6	532.963	43.27	-9.45	33.82	PK	46.00	12.18	Vertical



Suspected Data List

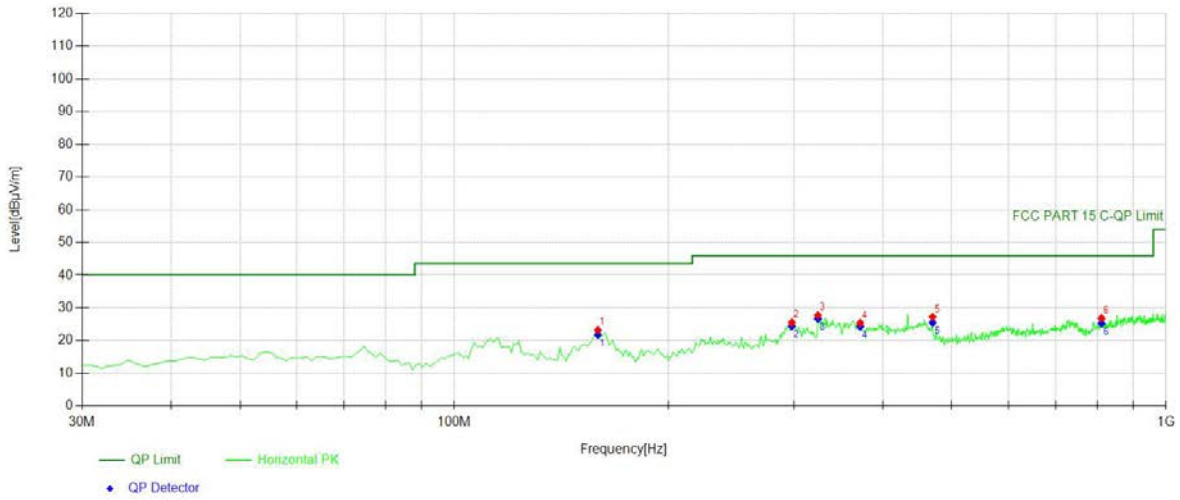
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	159.139	42.45	-19.42	23.03	PK	43.50	20.47	Horizontal
2	305.755	39.61	-13.86	25.75	PK	46.00	20.25	Horizontal
3	358.188	39.27	-12.35	26.92	PK	46.00	19.08	Horizontal
4	458.198	36.74	-10.41	26.33	PK	46.00	19.67	Horizontal
5	738.808	34.44	-5.68	28.76	PK	46.00	17.24	Horizontal
6	951.451	31.44	-2.85	28.59	PK	46.00	17.41	Horizontal

Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	39.7097	40.81	-17.45	23.36	PK	40.00	16.64	Vertical
2	48.4484	40.72	-16.22	24.50	PK	40.00	15.50	Vertical
3	58.1582	40.05	-17.08	22.97	PK	40.00	17.03	Vertical
4	65.9259	42.16	-18.14	24.02	PK	40.00	15.98	Vertical
5	75.6356	47.24	-19.54	27.70	PK	40.00	12.30	Vertical
6	532.963	40.63	-9.45	31.18	PK	46.00	14.82	Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	159.139	42.63	-19.42	23.21	PK	43.50	20.29	Horizontal
2	297.988	39.52	-14.02	25.50	PK	46.00	20.50	Horizontal
3	324.204	41.07	-13.35	27.72	PK	46.00	18.28	Horizontal
4	371.781	37.30	-11.93	25.37	PK	46.00	20.63	Horizontal
5	469.849	37.41	-10.22	27.19	PK	46.00	18.81	Horizontal
6	811.631	32.03	-5.21	26.82	PK	46.00	19.18	Horizontal

7.6 CONDUCTED EMISSION TEST

7.6.1 Applicable Standard

According to IC RSS-Gen 8.8

7.6.2 Conformance Limit

FCC Part 15, Subpart B, Class B

Conducted Emission Limit		
Frequency(MHz)	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.

7.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup 3.

7.6.4 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.

7.6.5 Test Results

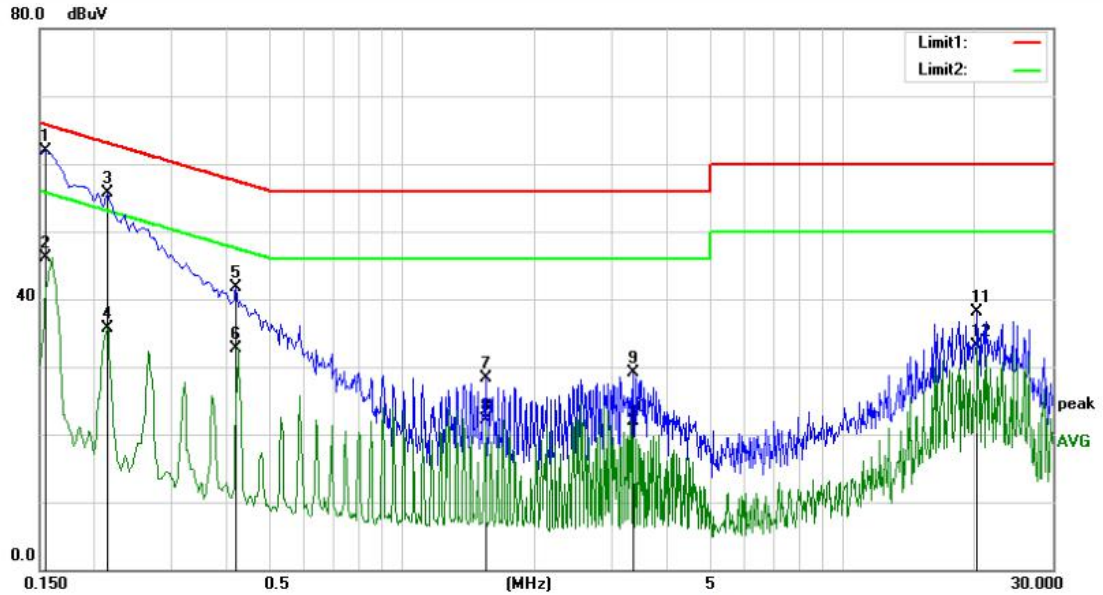
Temperature : 25.1℃

Humidity : 45 %

ATM Pressure:: 1011 mbar

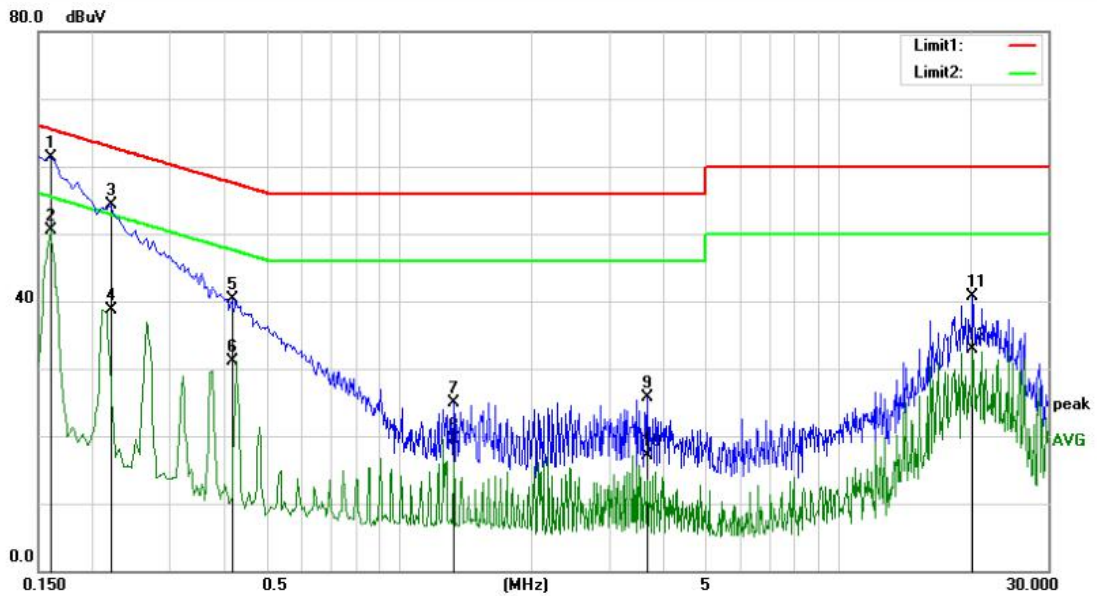
Test Engineer: XZC

Pass



Site Conduction 2# Phase: **N** Temperature: 25.1

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1550	51.26	10.67	61.93	65.73	-3.80	QP	
2		0.1550	35.42	10.67	46.09	55.73	-9.64	AVG	
3		0.2150	45.07	10.64	55.71	63.01	-7.30	QP	
4		0.2150	25.02	10.64	35.66	53.01	-17.35	AVG	
5		0.4200	31.09	10.66	41.75	57.45	-15.70	QP	
6		0.4200	22.11	10.66	32.77	47.45	-14.68	AVG	
7		1.5450	17.57	10.67	28.24	56.00	-27.76	QP	
8		1.5450	11.44	10.67	22.11	46.00	-23.89	AVG	
9		3.3500	18.53	10.49	29.02	56.00	-26.98	QP	
10		3.3500	11.41	10.49	21.90	46.00	-24.10	AVG	
11		20.1800	26.98	11.15	38.13	60.00	-21.87	QP	
12		20.1800	21.94	11.15	33.09	50.00	-16.91	AVG	



Site: Conduction 2# Phase: **L1** Temperature: 25.1

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1600	50.71	10.67	61.38	65.46	-4.08	QP	
2		0.1600	39.91	10.67	50.58	55.46	-4.88	AVG	
3		0.2200	43.58	10.65	54.23	62.82	-8.59	QP	
4		0.2200	28.11	10.65	38.76	52.82	-14.06	AVG	
5		0.4150	29.71	10.66	40.37	57.55	-17.18	QP	
6		0.4150	20.46	10.66	31.12	47.55	-16.43	AVG	
7		1.3300	14.19	10.67	24.86	56.00	-31.14	QP	
8		1.3300	8.91	10.67	19.58	46.00	-26.42	AVG	
9		3.6700	15.30	10.46	25.76	56.00	-30.24	QP	
10		3.6700	6.67	10.46	17.13	46.00	-28.87	AVG	
11		20.1800	29.50	11.15	40.65	60.00	-19.35	QP	
12		20.1800	21.71	11.15	32.86	50.00	-17.14	AVG	

7.7 ANTENNA APPLICATION

7.7.1 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 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..

7.7.2 Result

Temperature : 25°C ATM Pressure:: 1011 mbar
Humidity : 45 % Test Engineer: GJ

PASS

The EUT is integrated antenna, ANT1: 2.84dBi, ANT2: 2.41dBi.

- ☐ Antenna uses 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).

Which in accordance to section 15.203, please refer to the internal photos.

Detail of factor for radiated emission:

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

--- End of Report ---

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