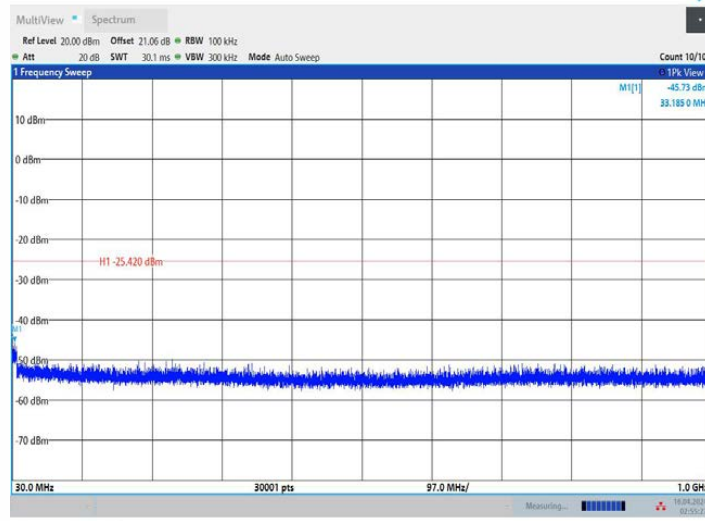
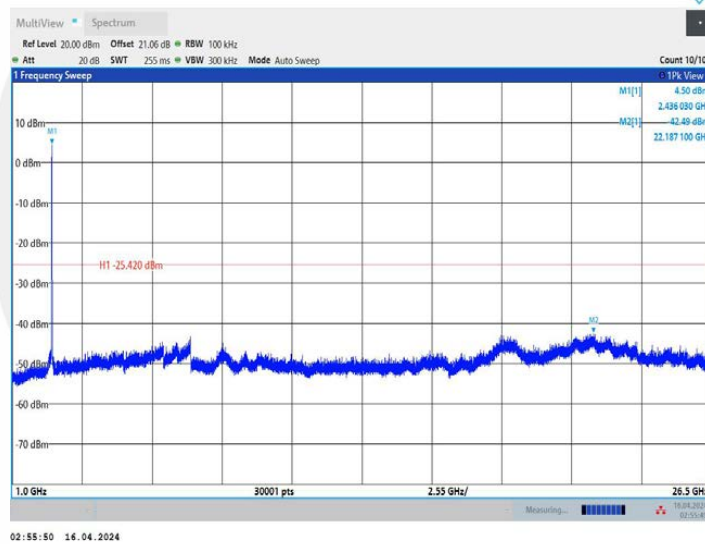


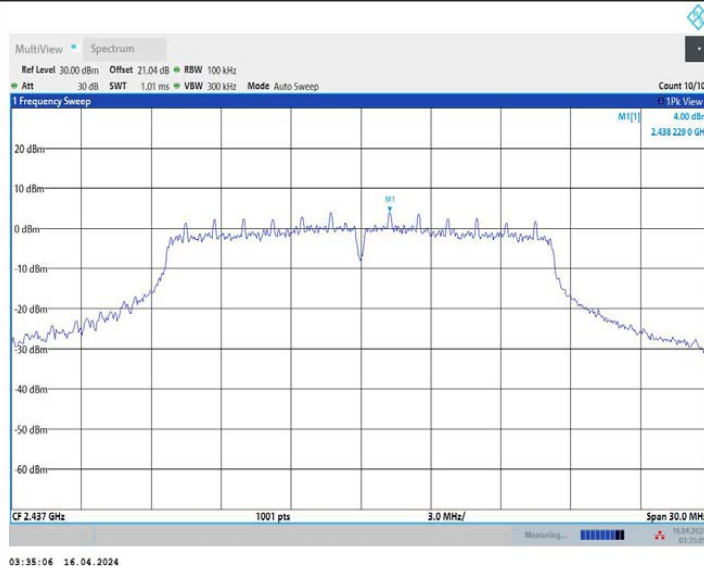
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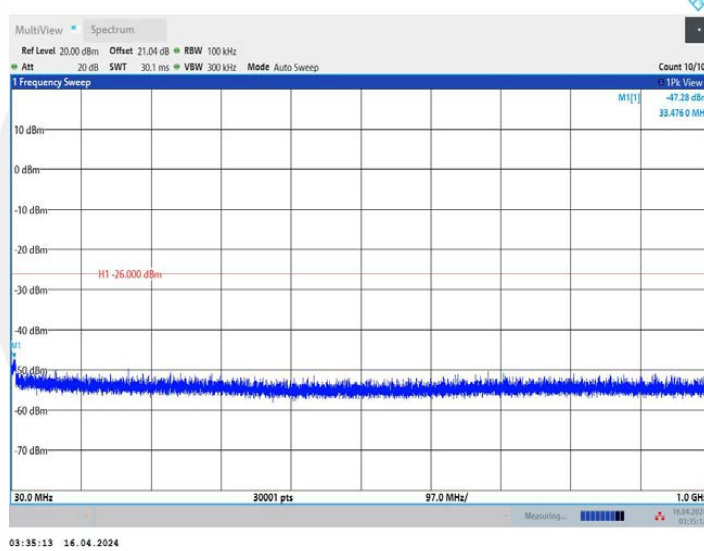
11G_Ant1_2437_1000~26500



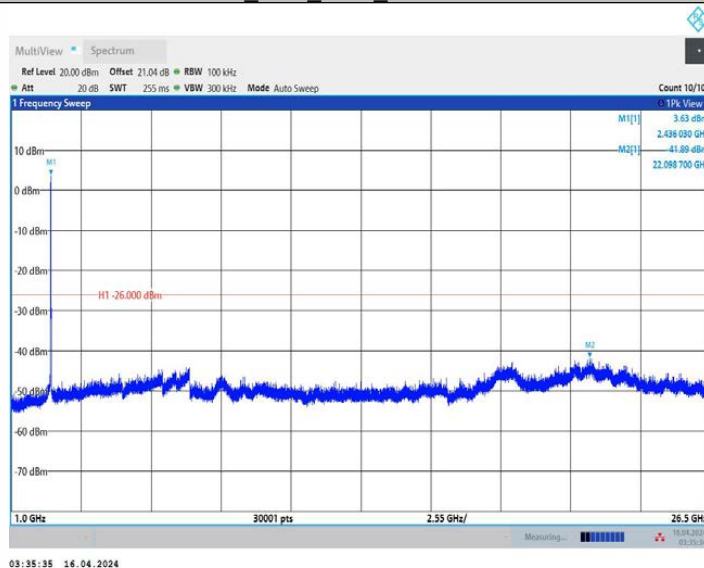
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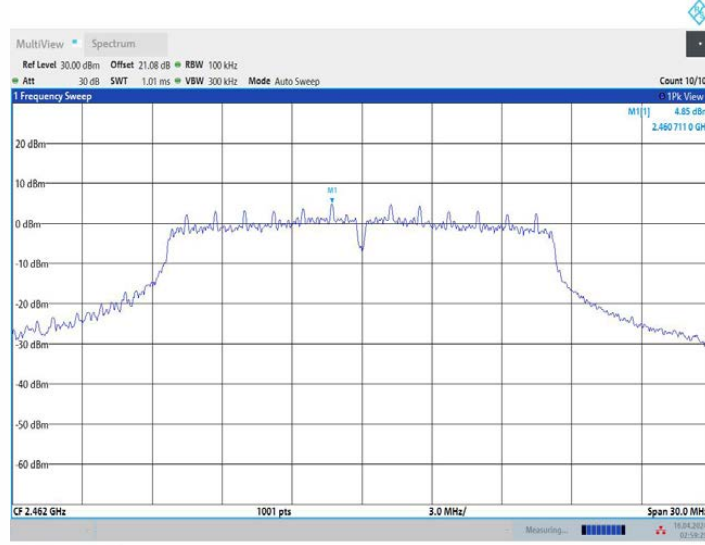
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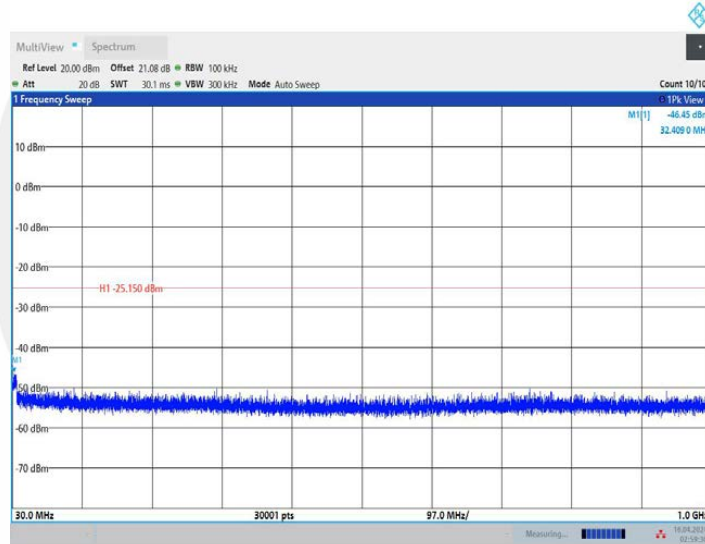
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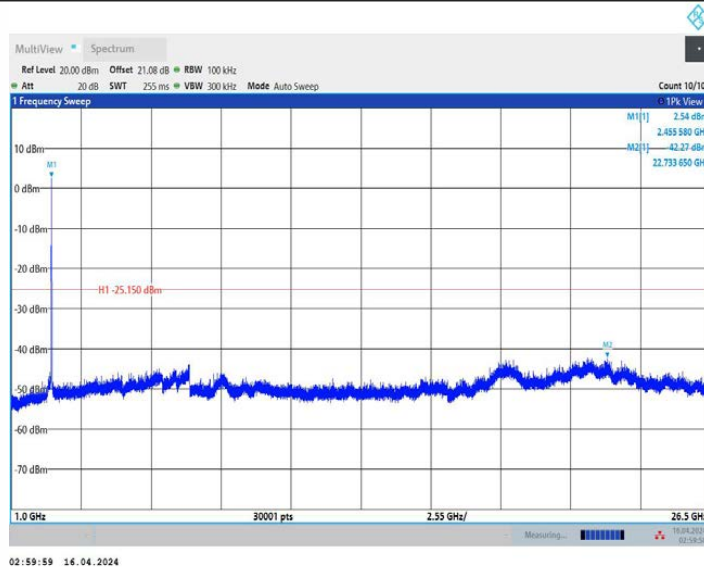
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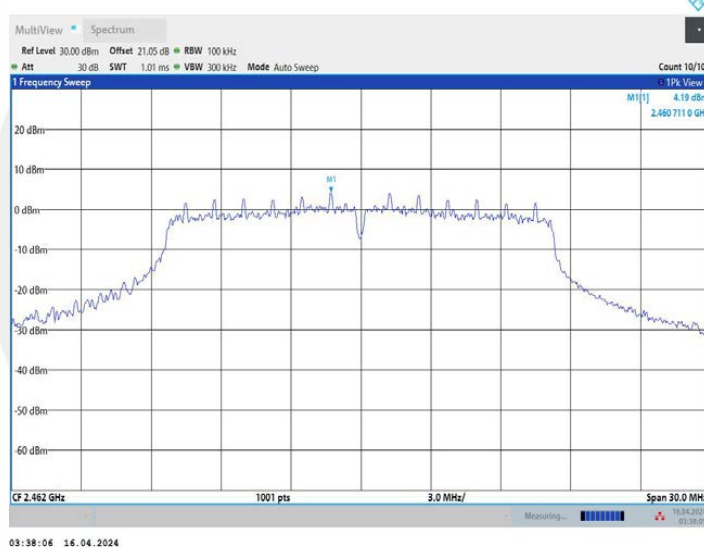
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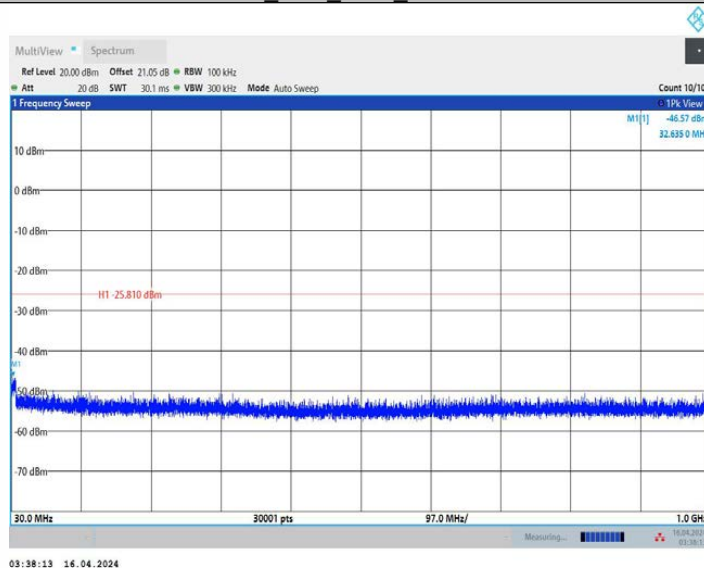
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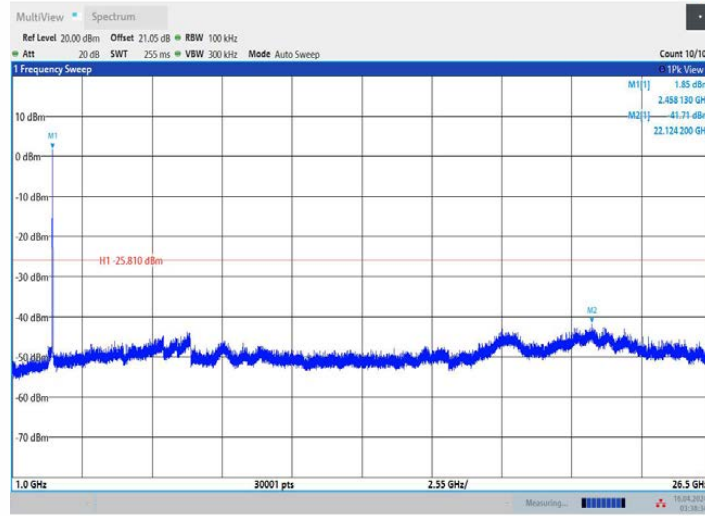
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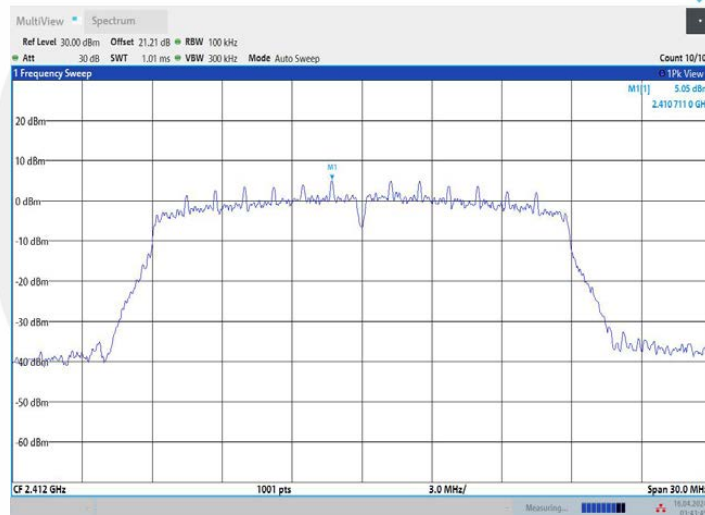
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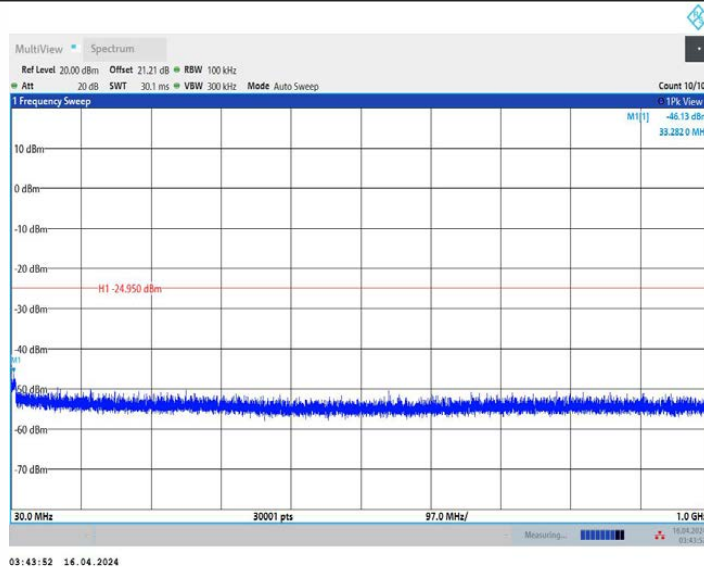
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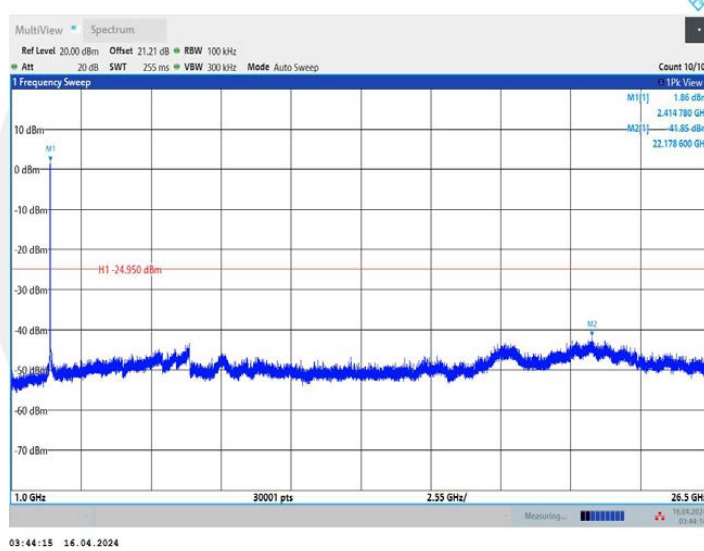
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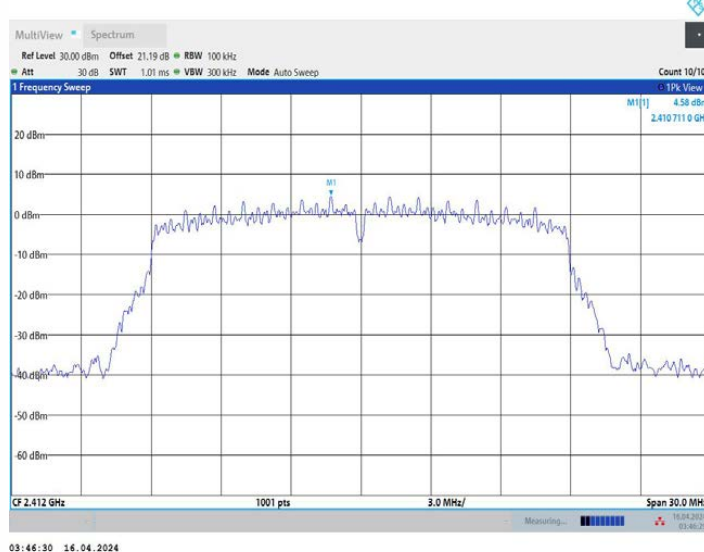
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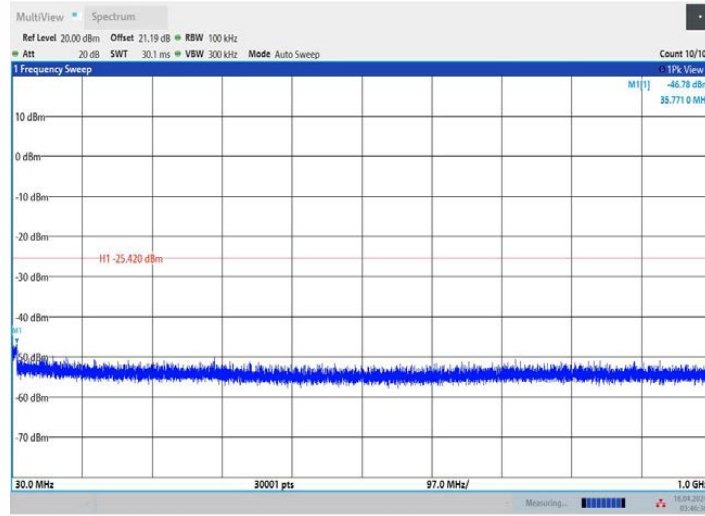
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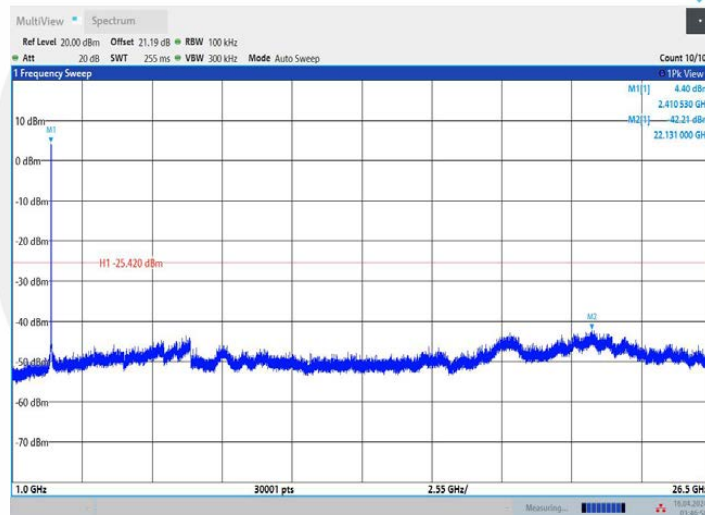
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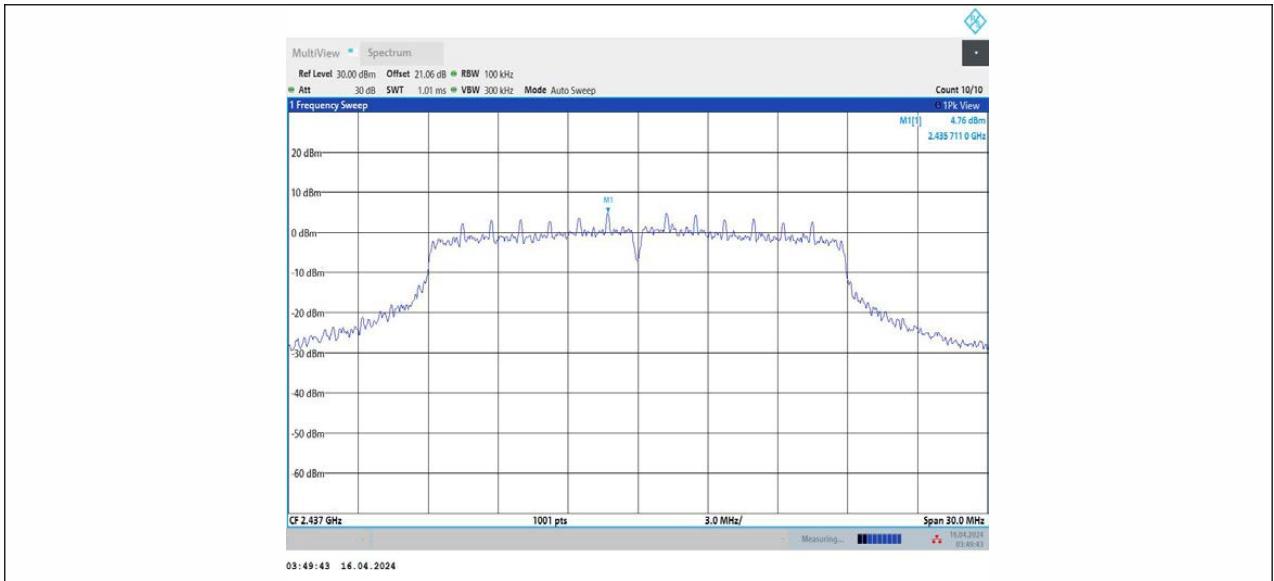
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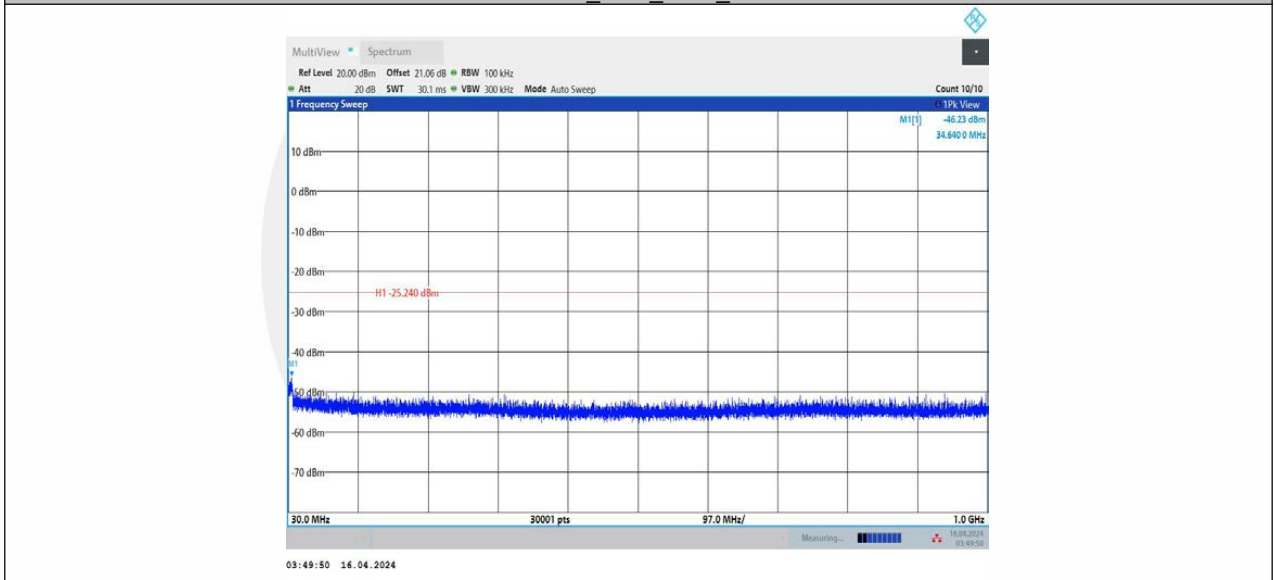
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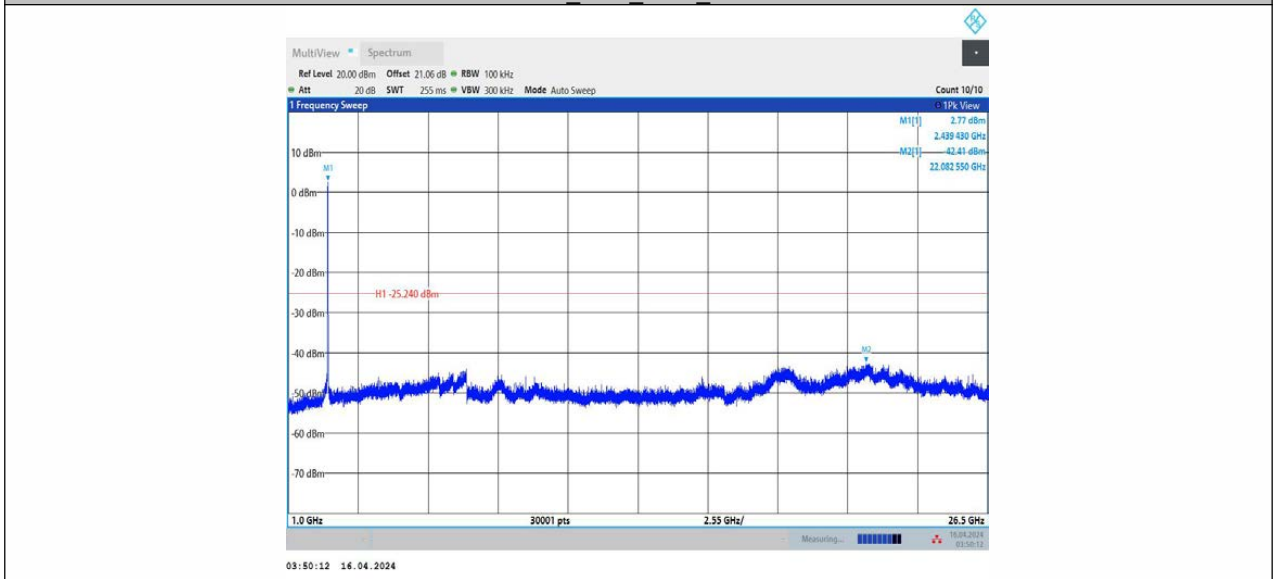
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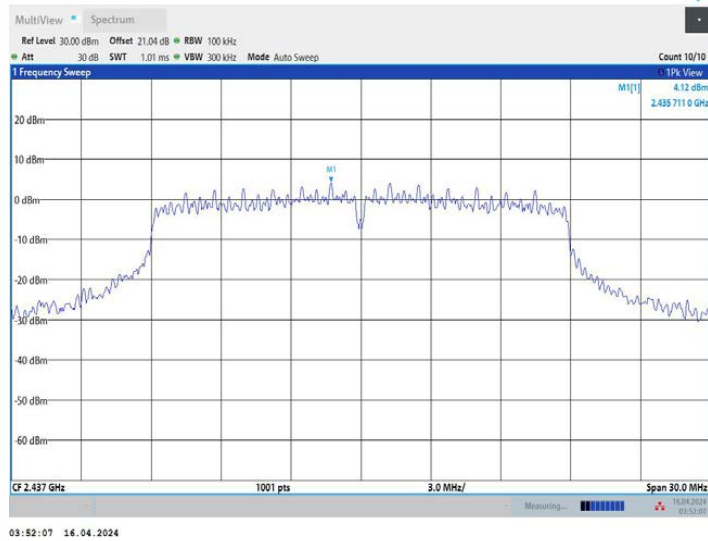
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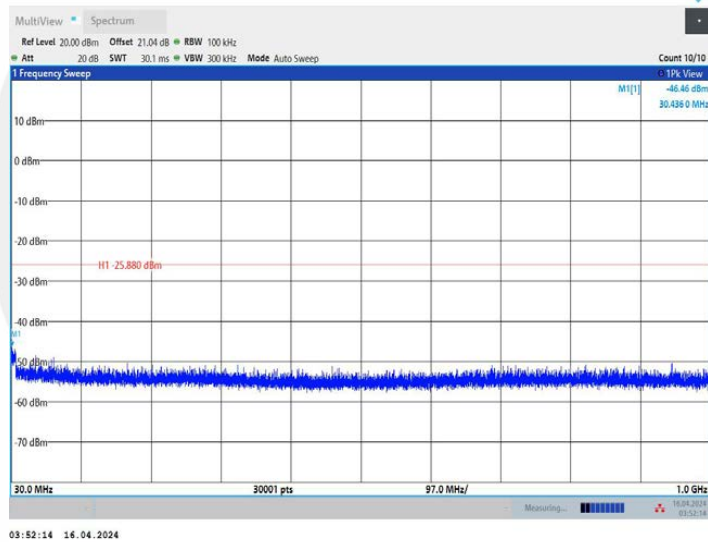
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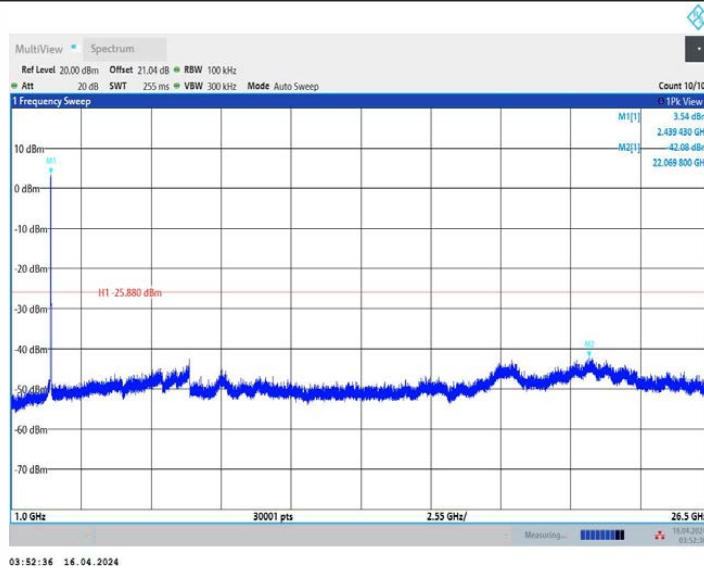
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11N20MIMO_Ant2_2437_30~1000



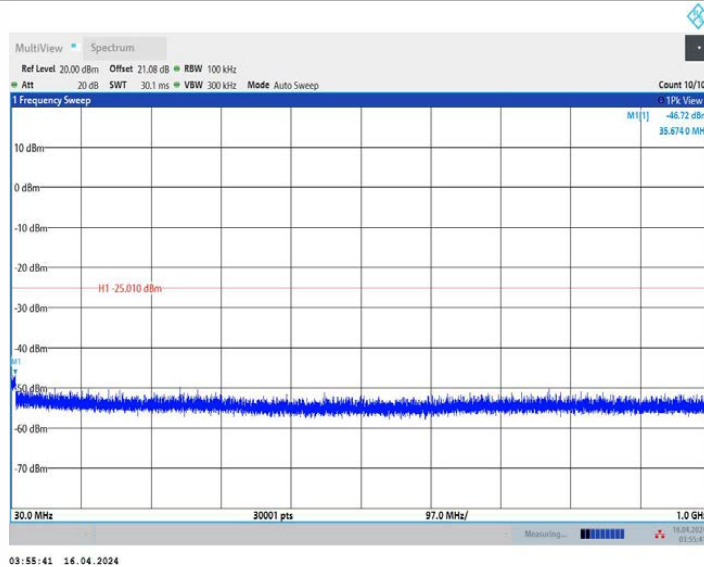
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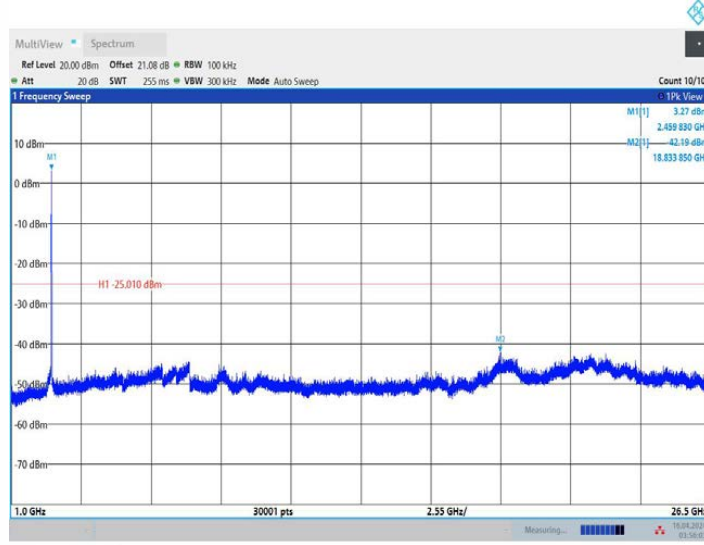
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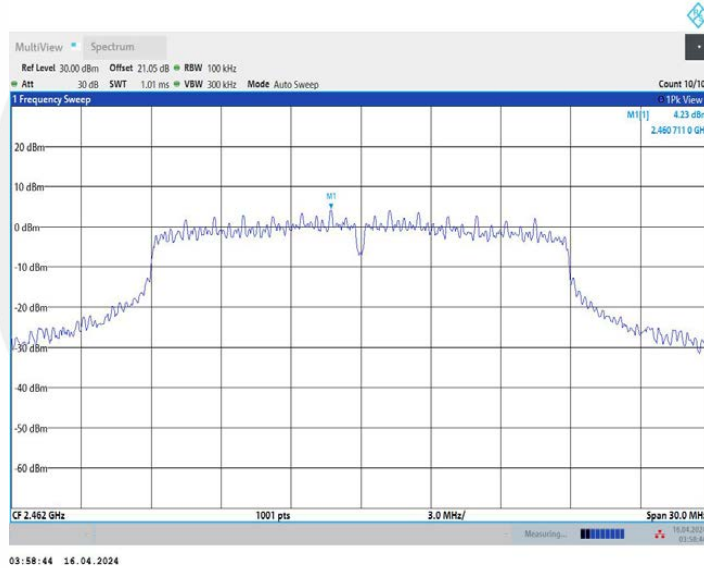
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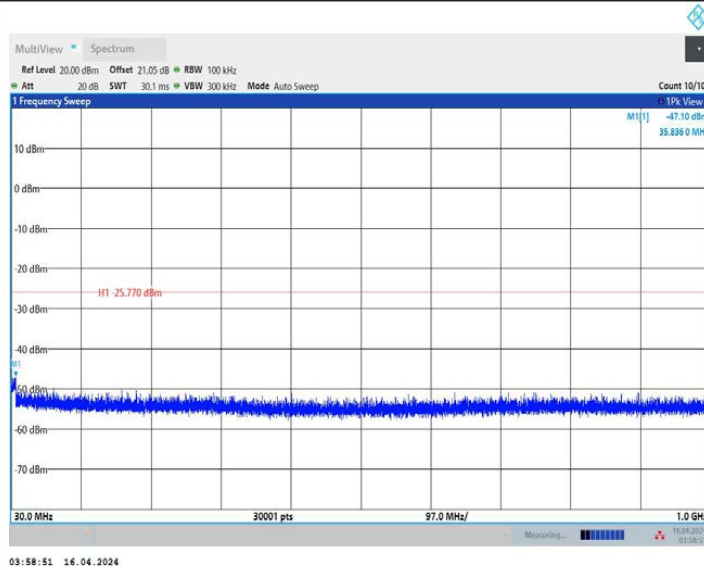
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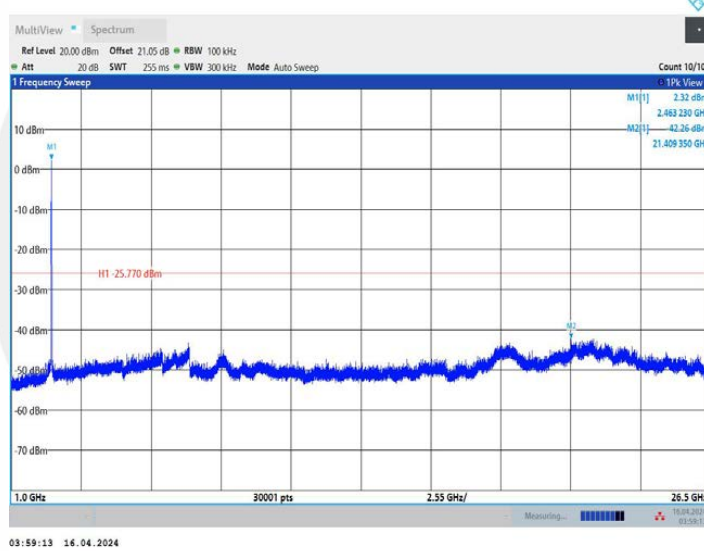
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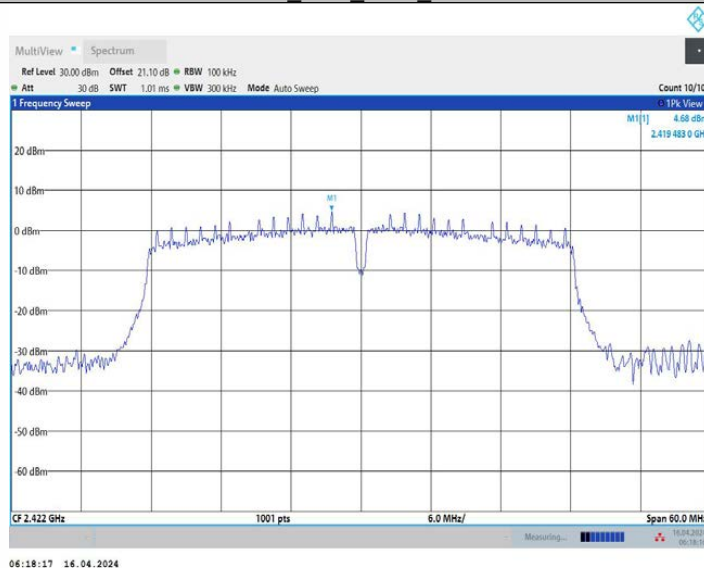
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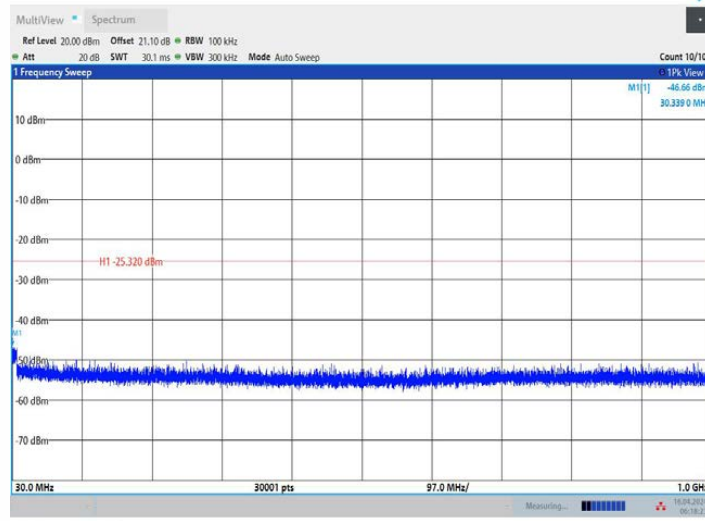
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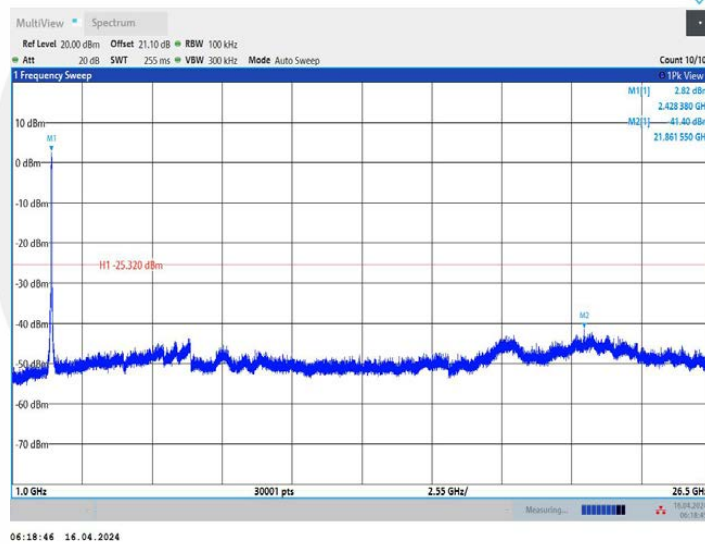
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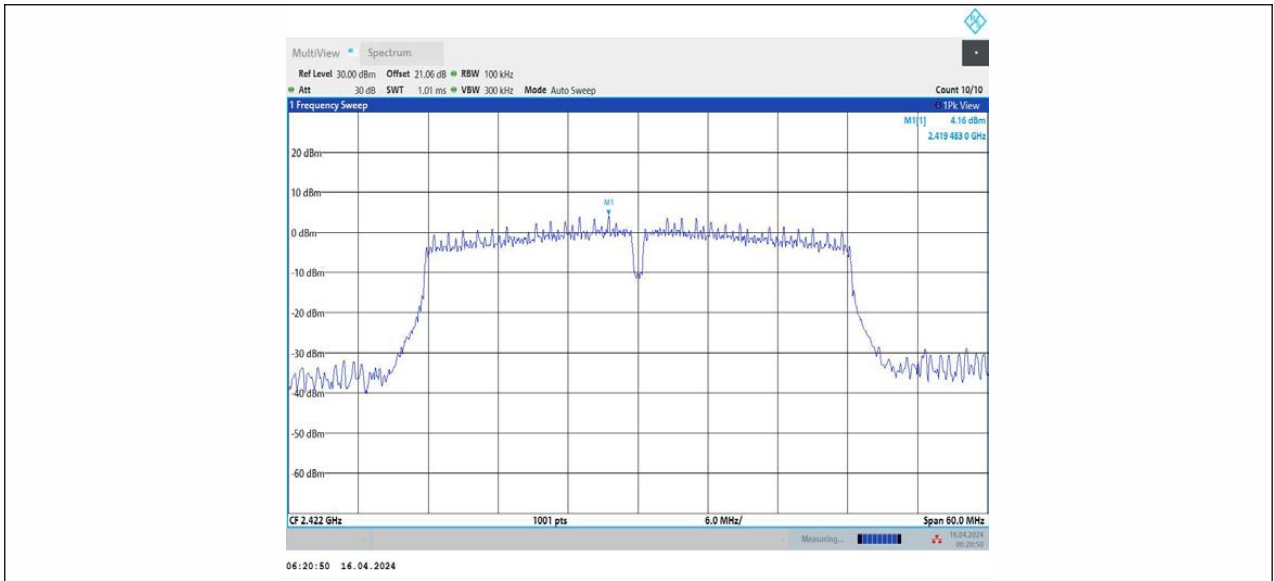
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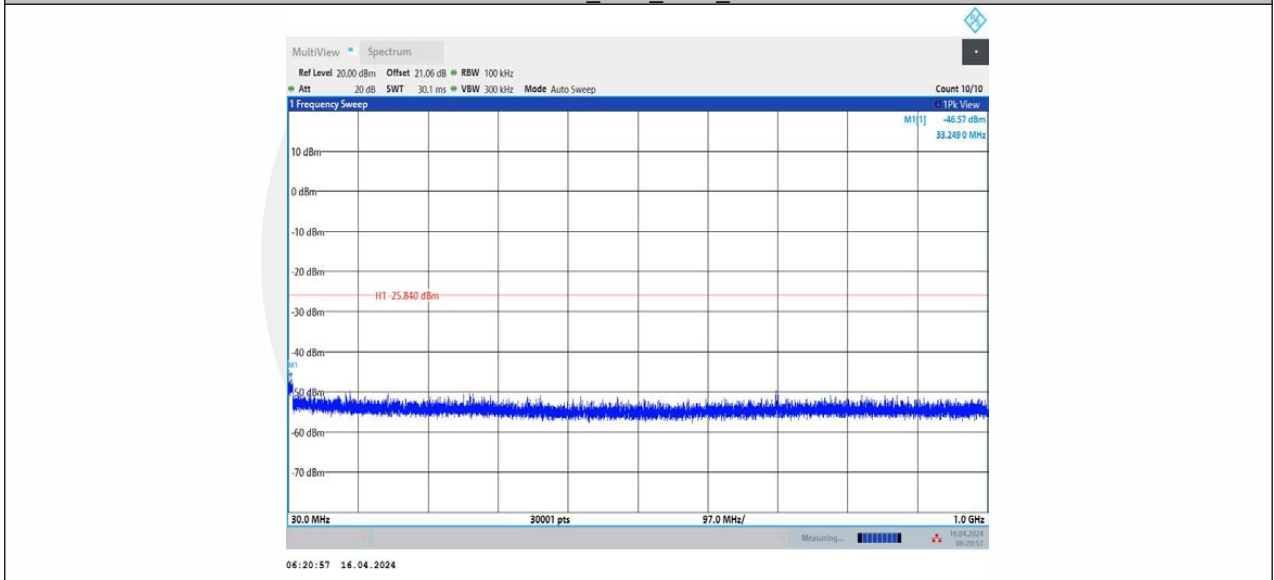
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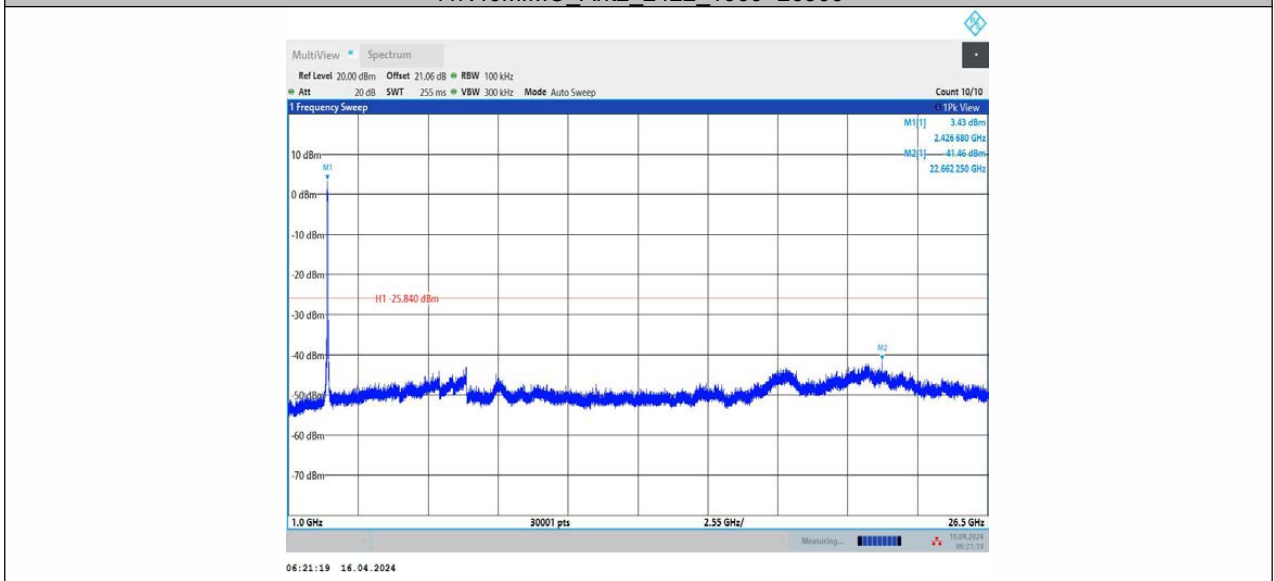
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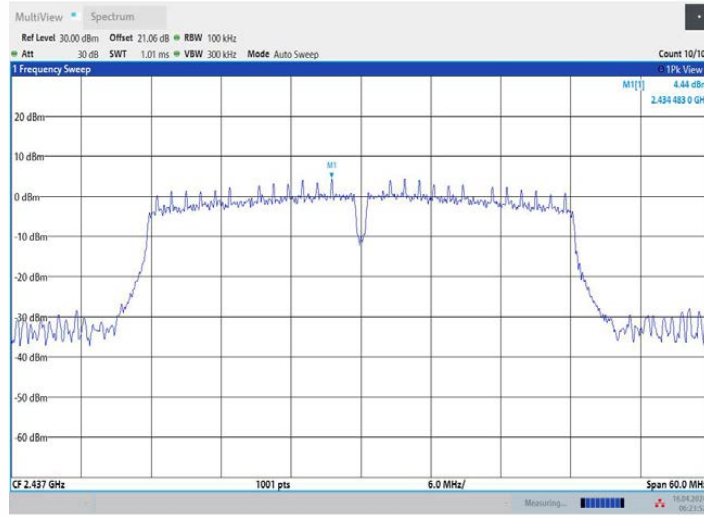
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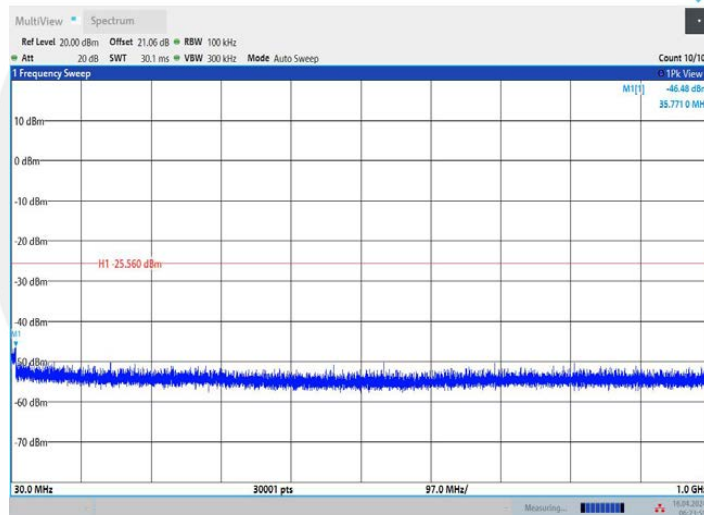
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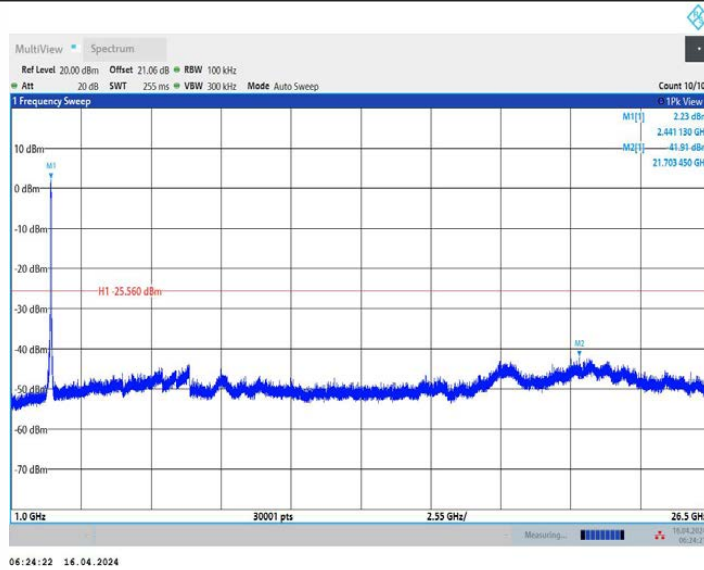
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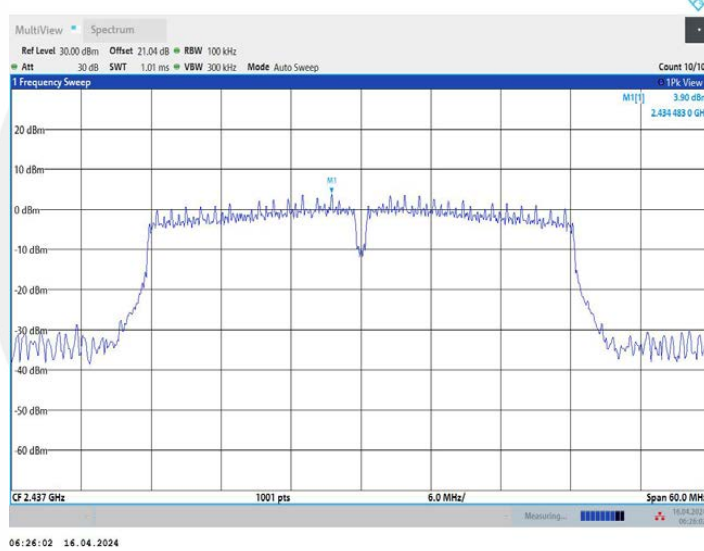
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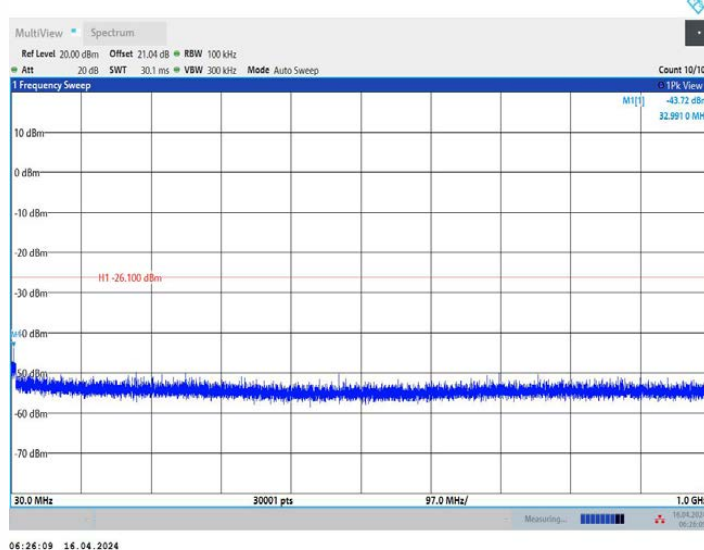
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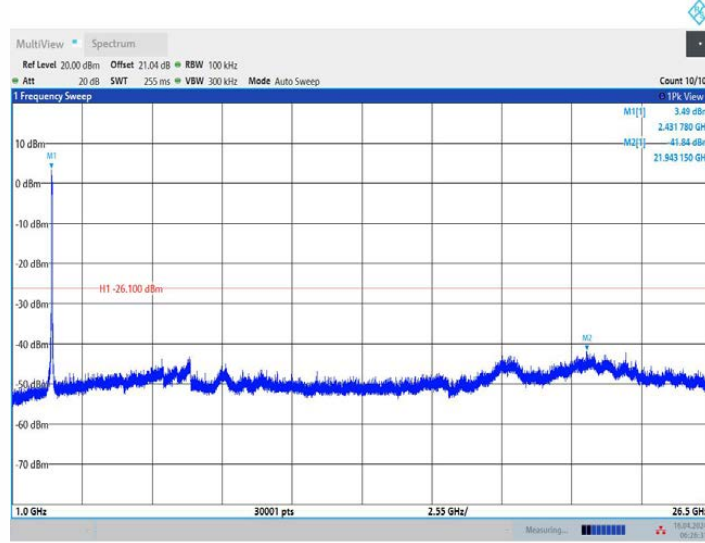
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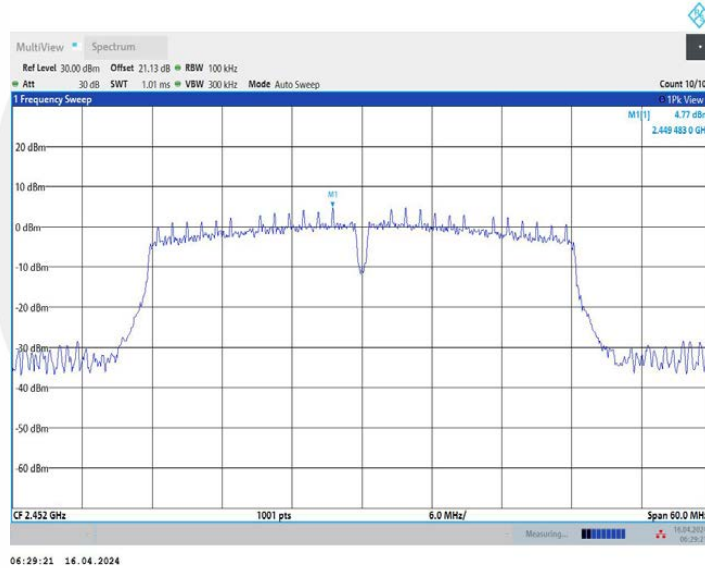
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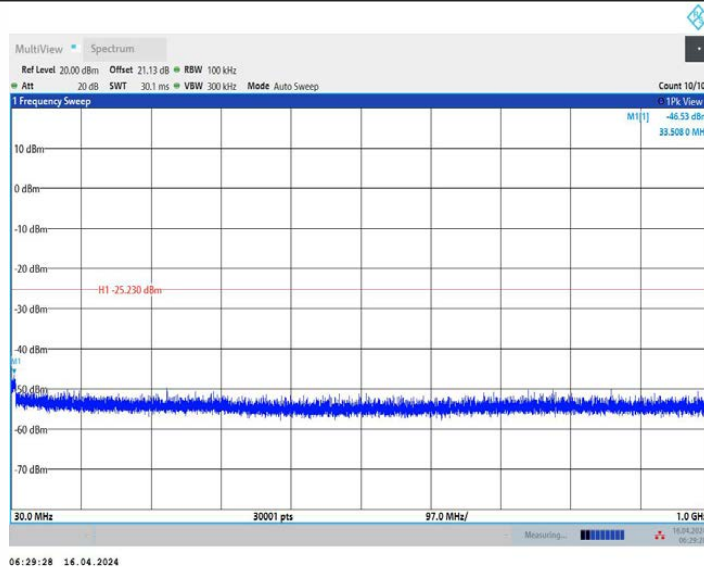
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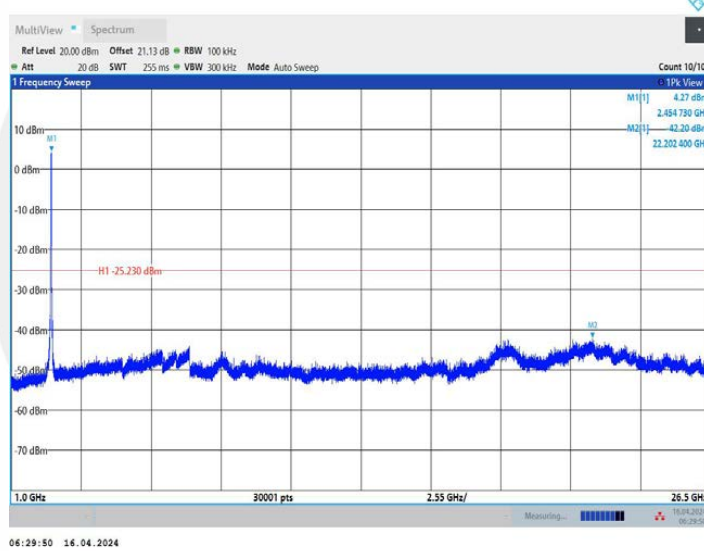
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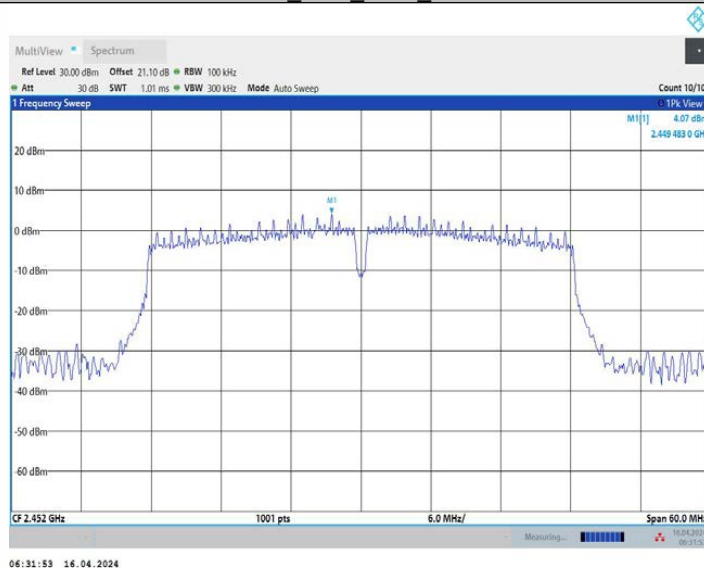
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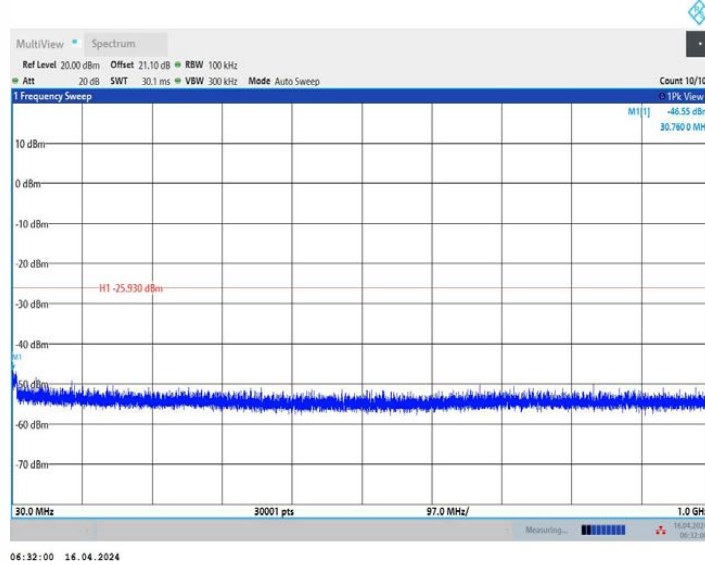
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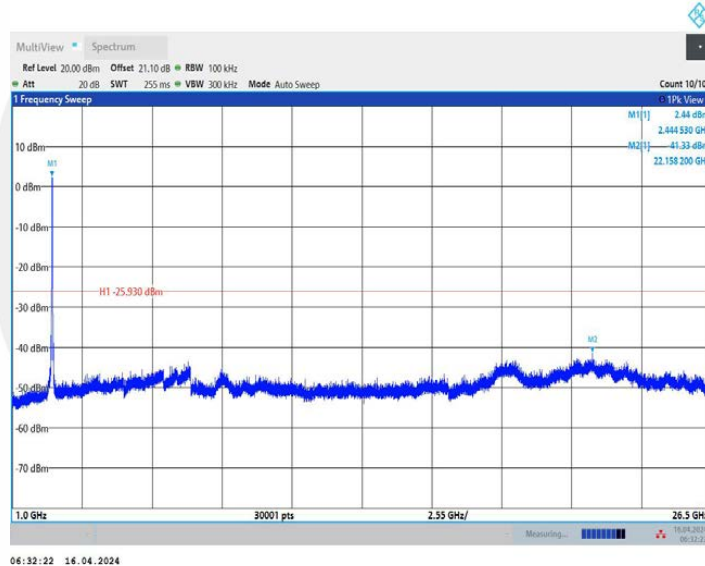
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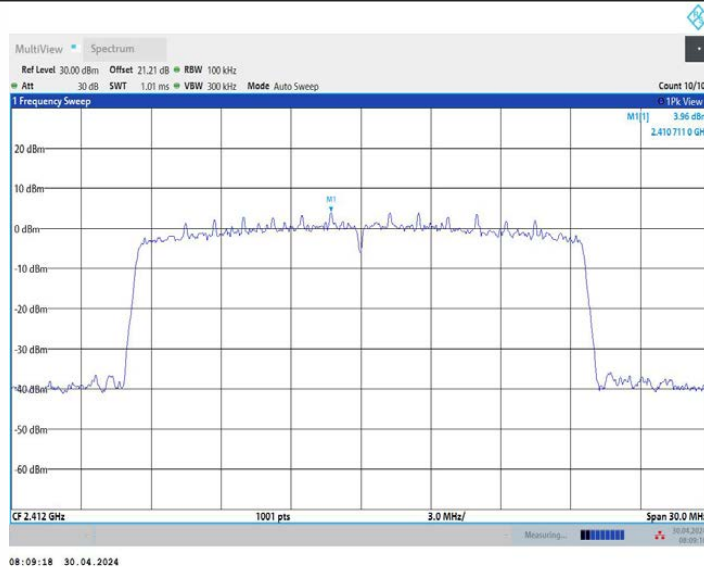
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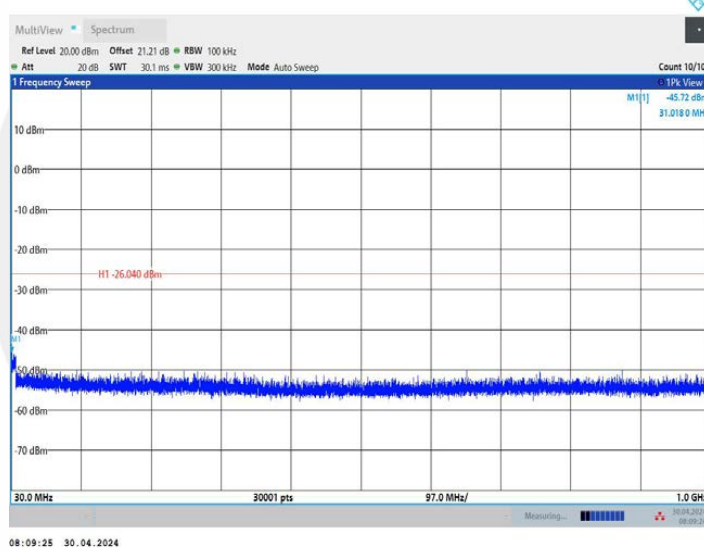
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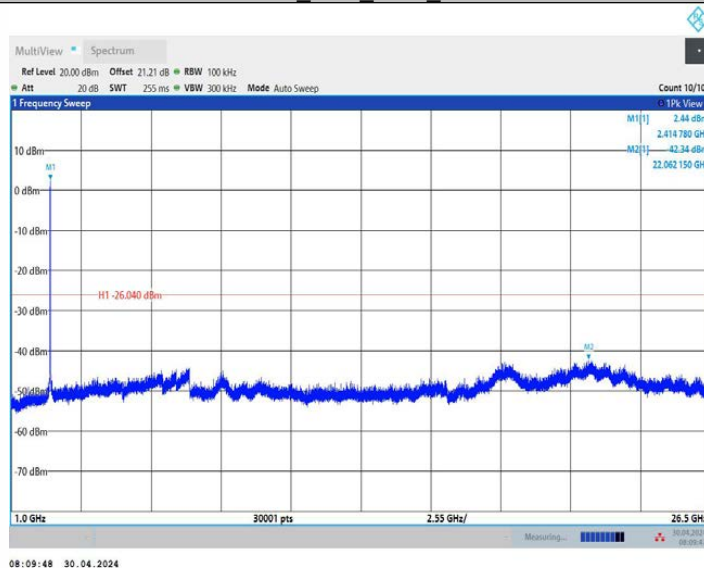
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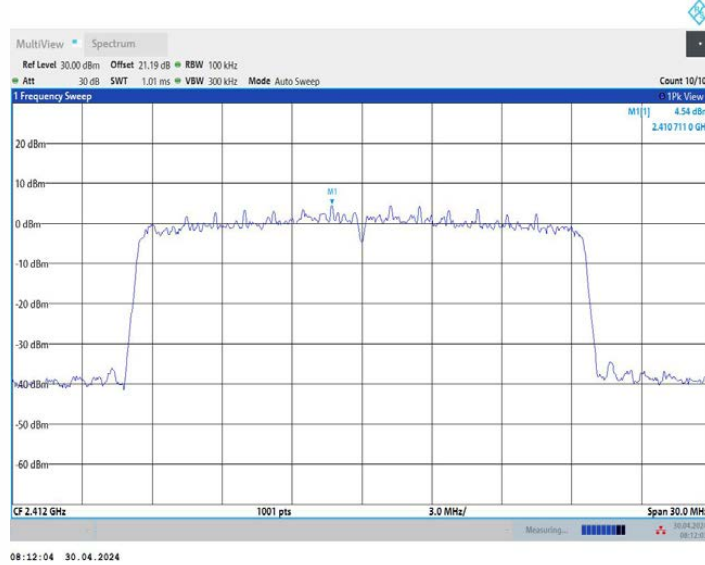
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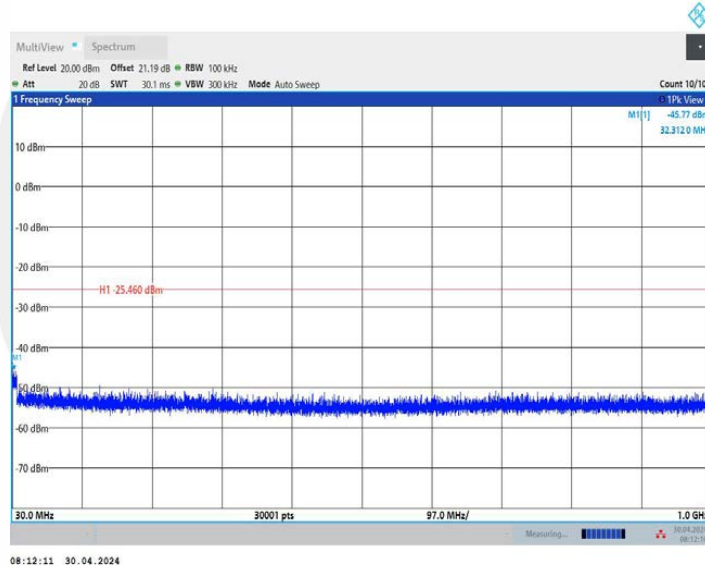
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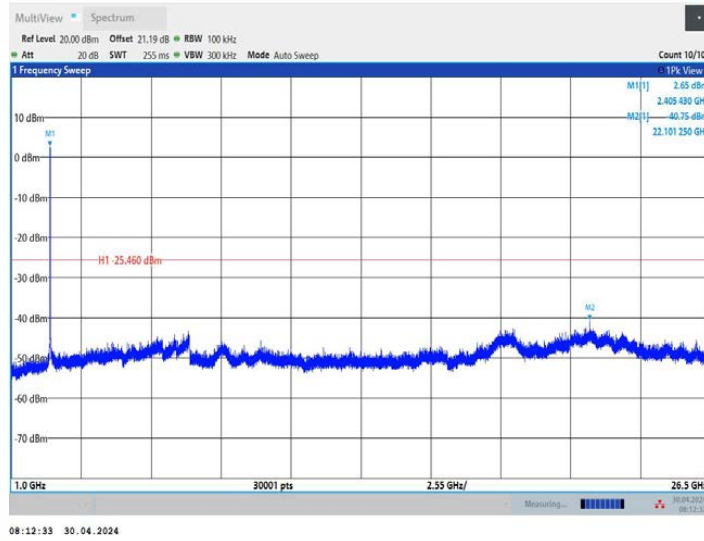
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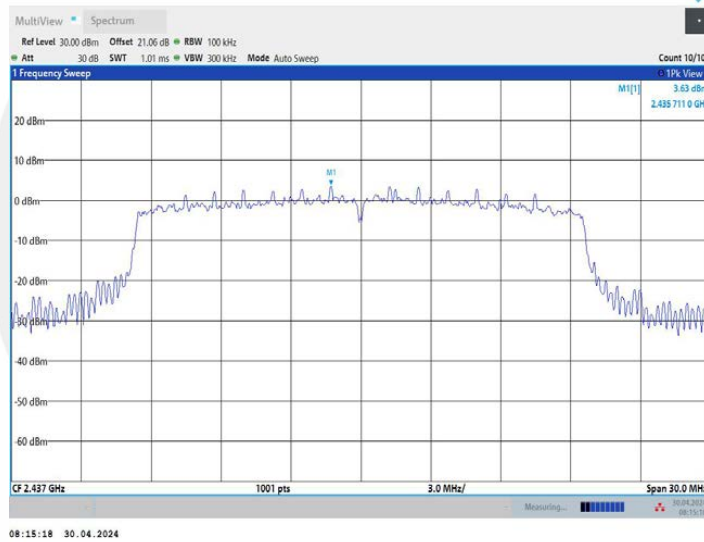
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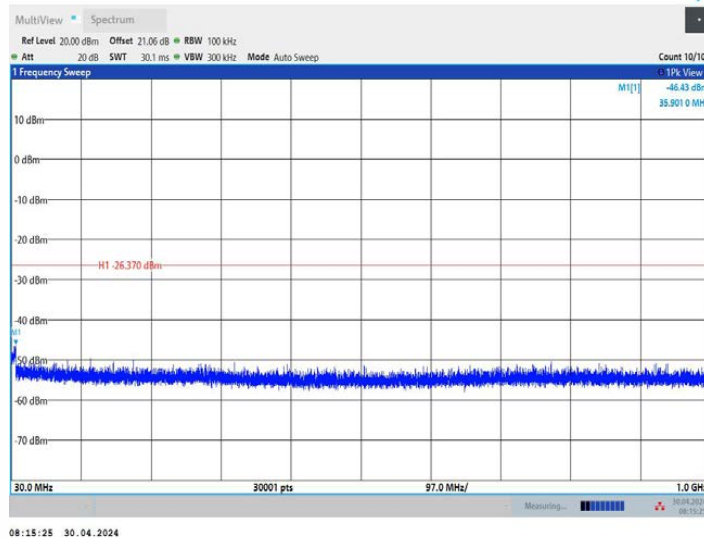
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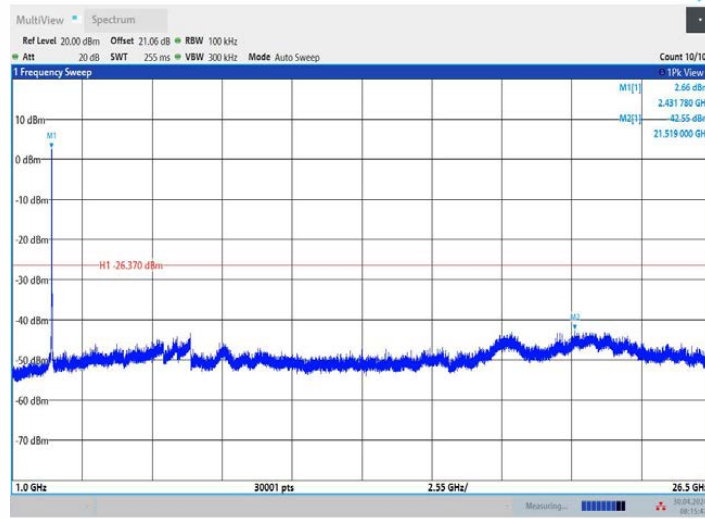
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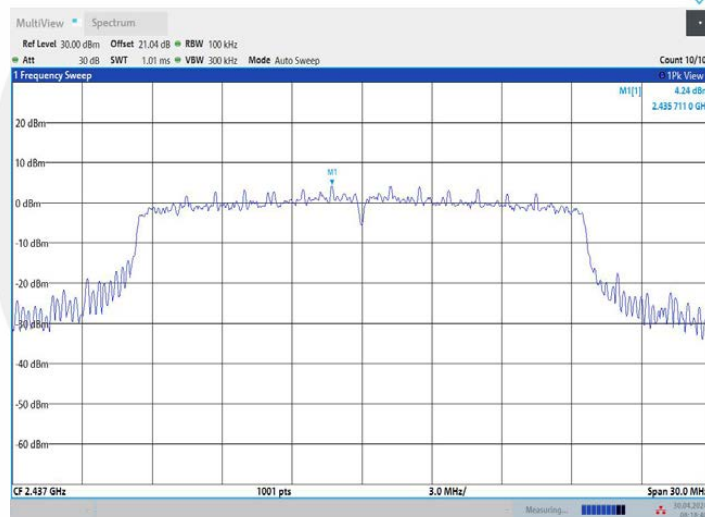
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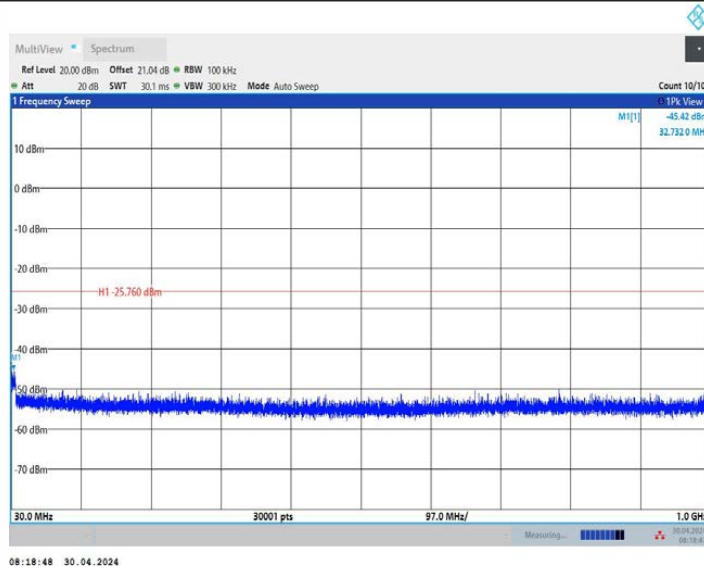
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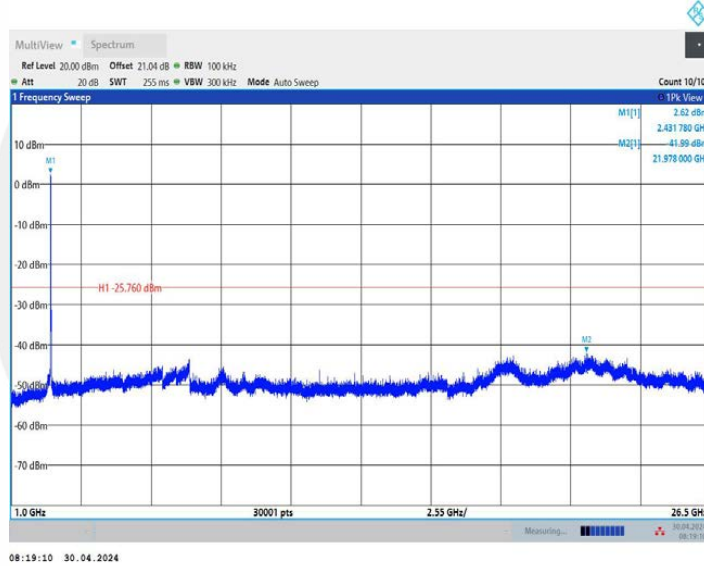
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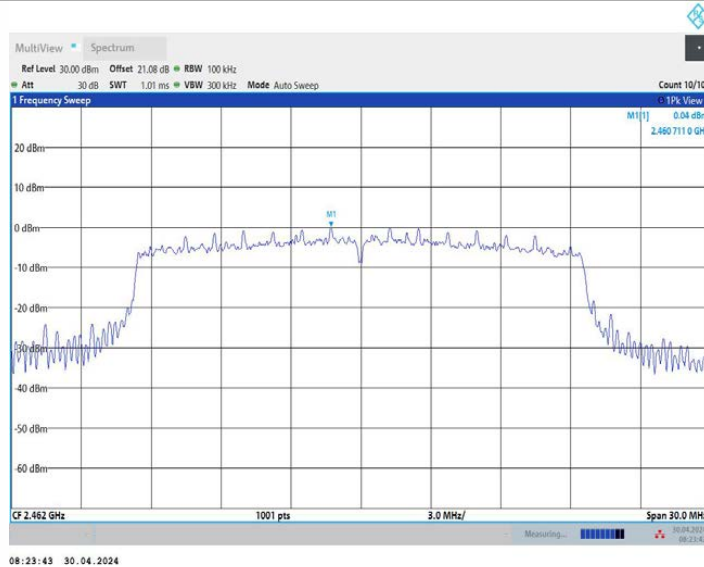
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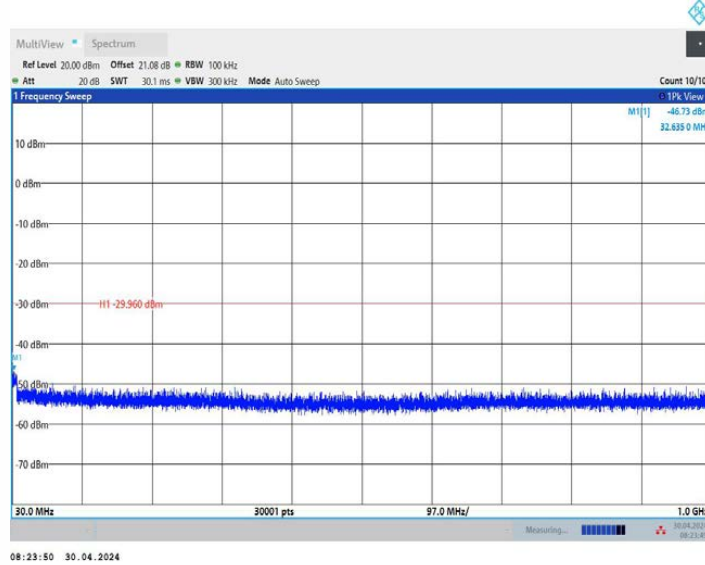
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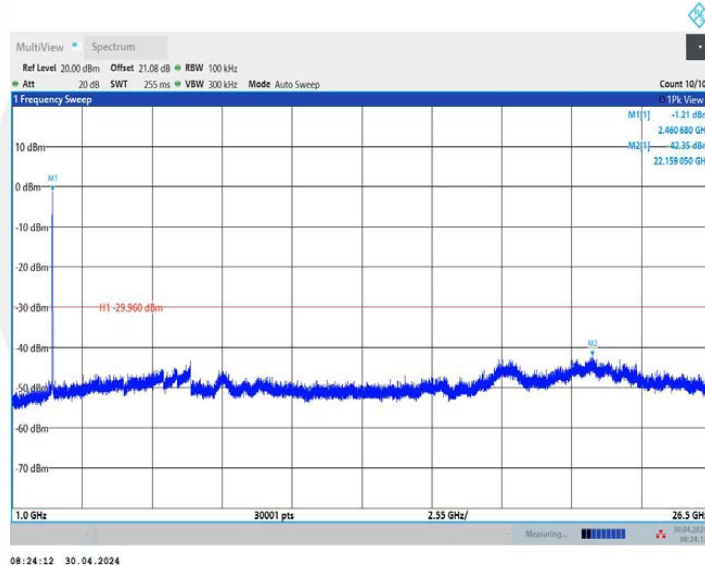
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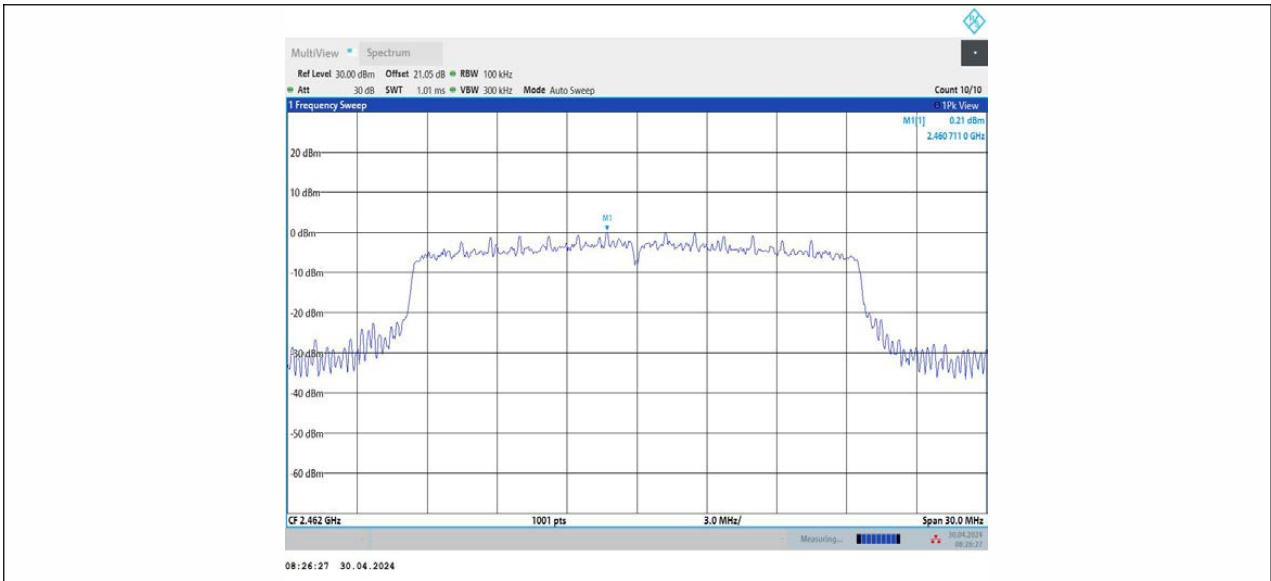
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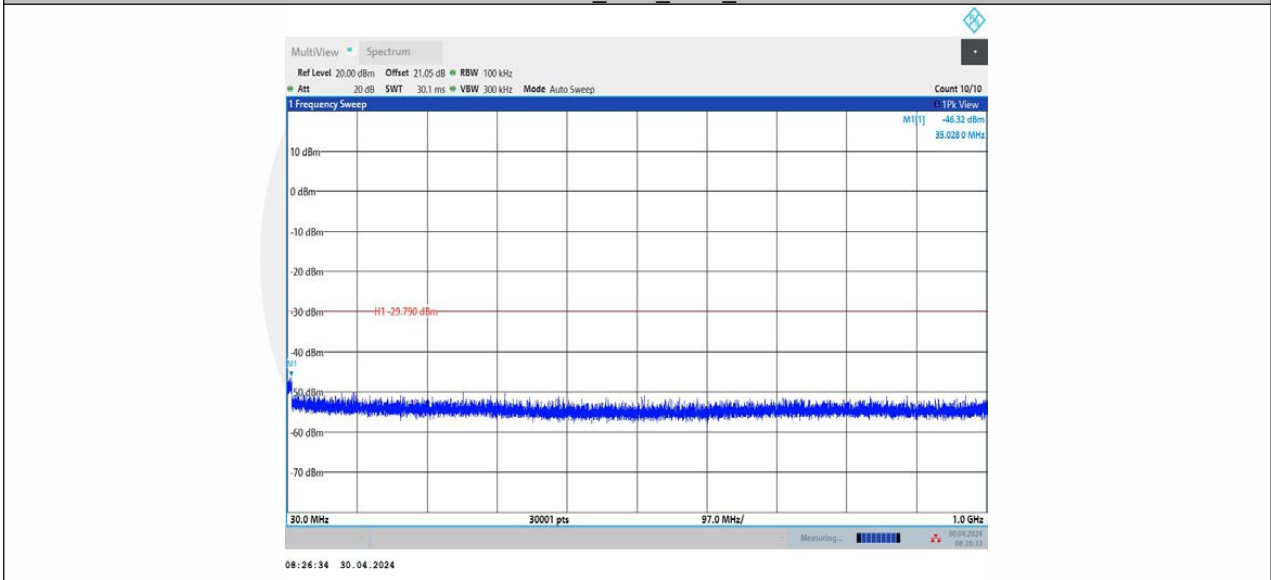
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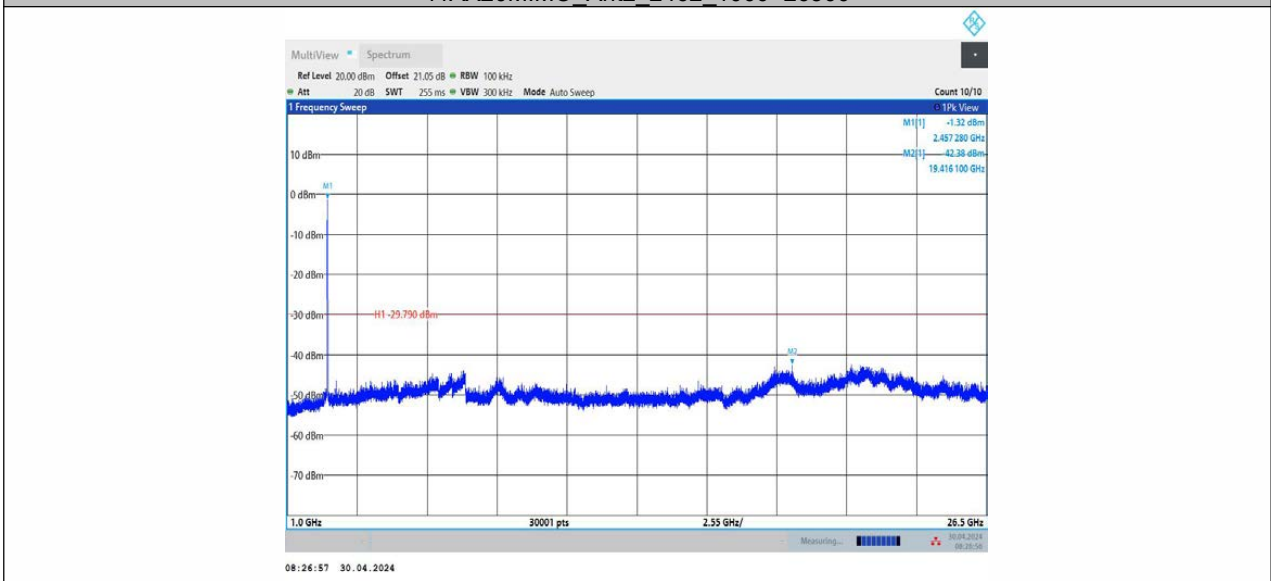
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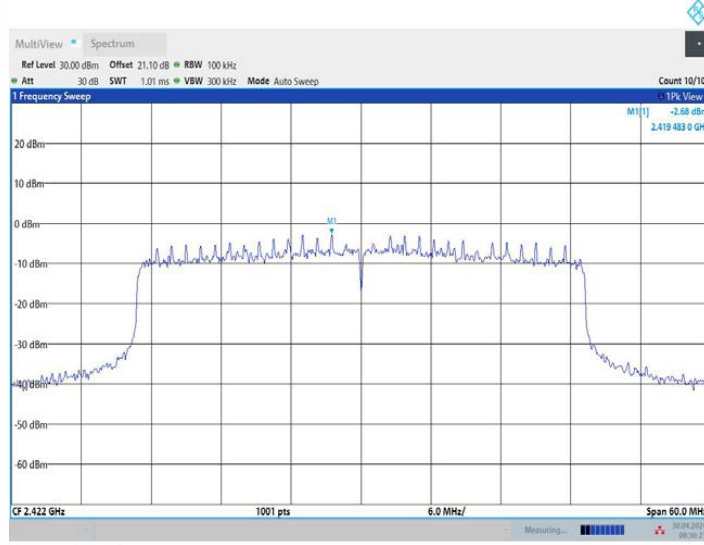
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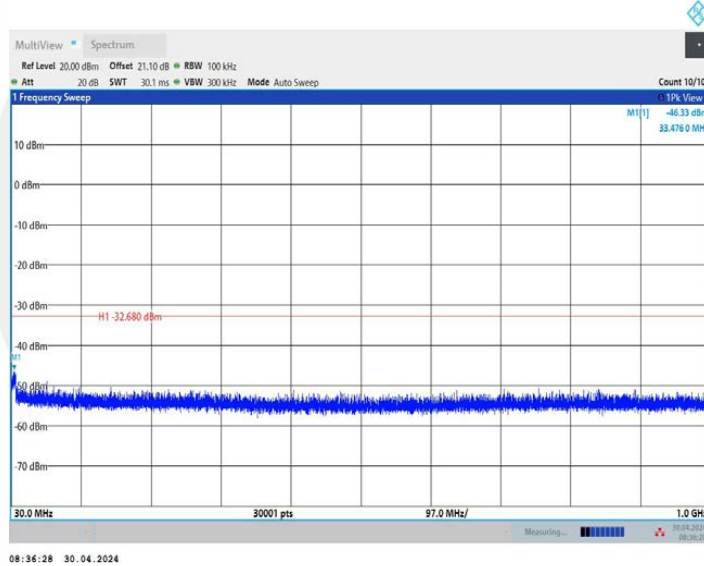
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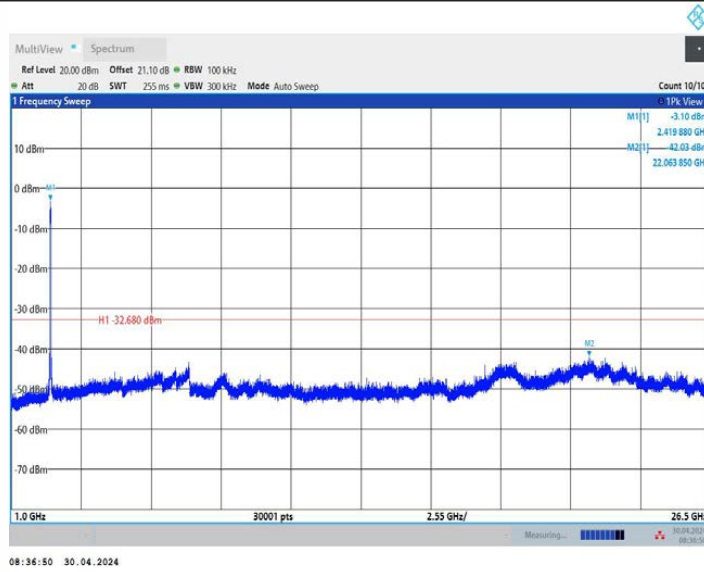
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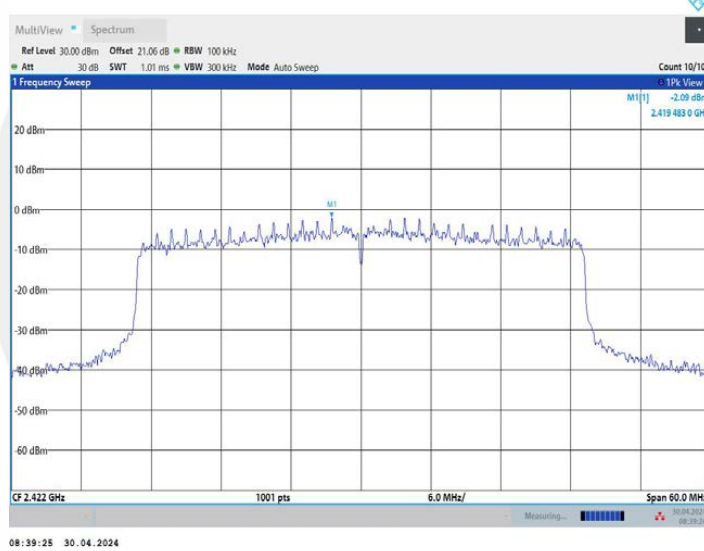
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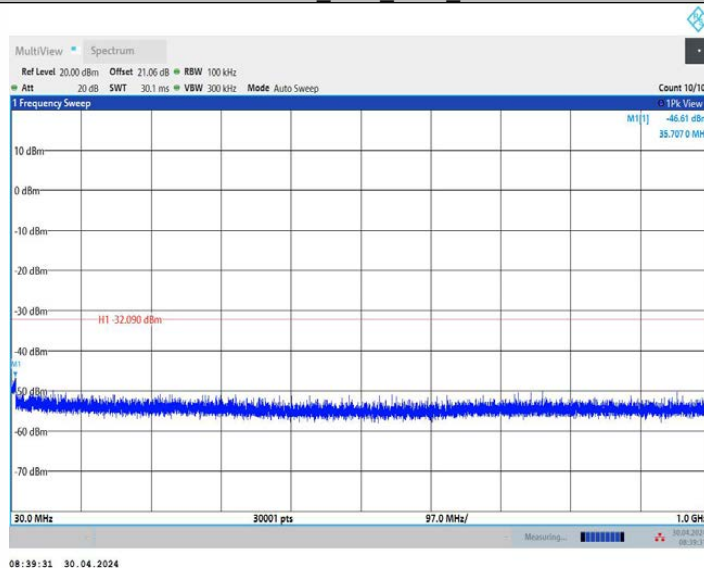
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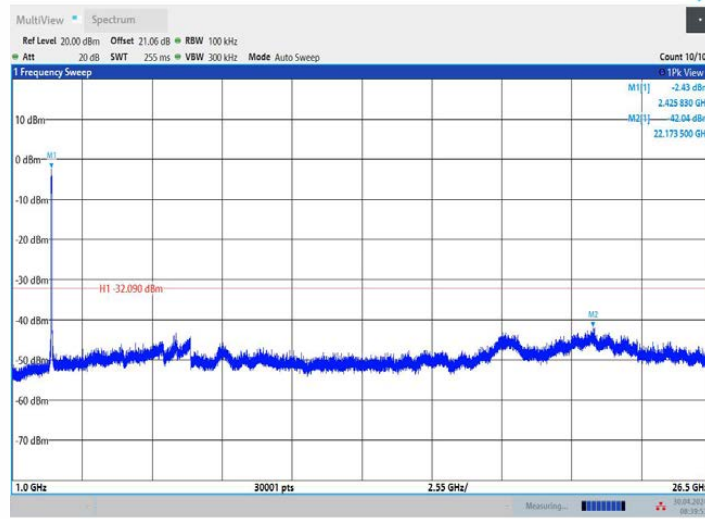
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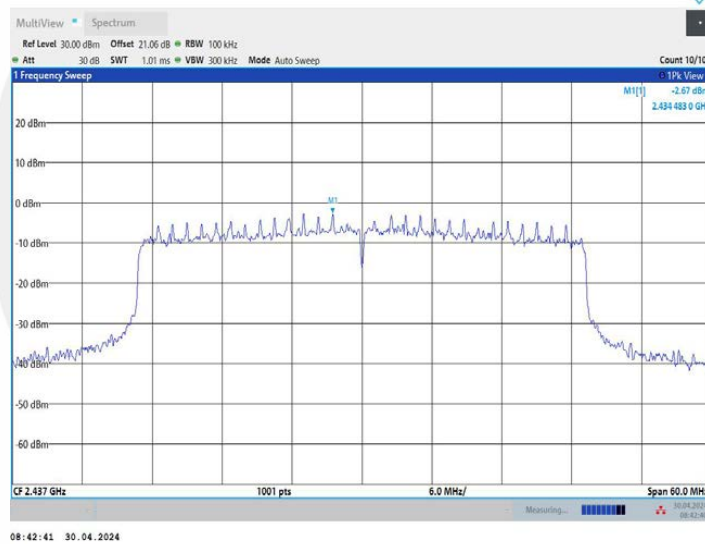
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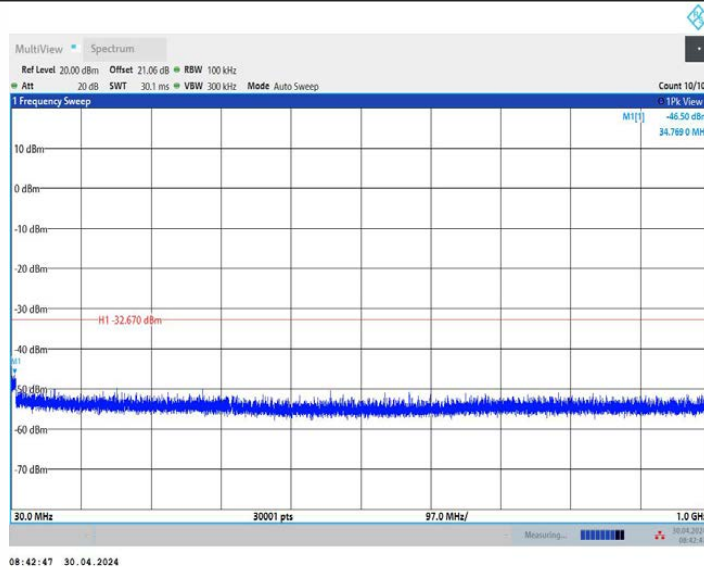
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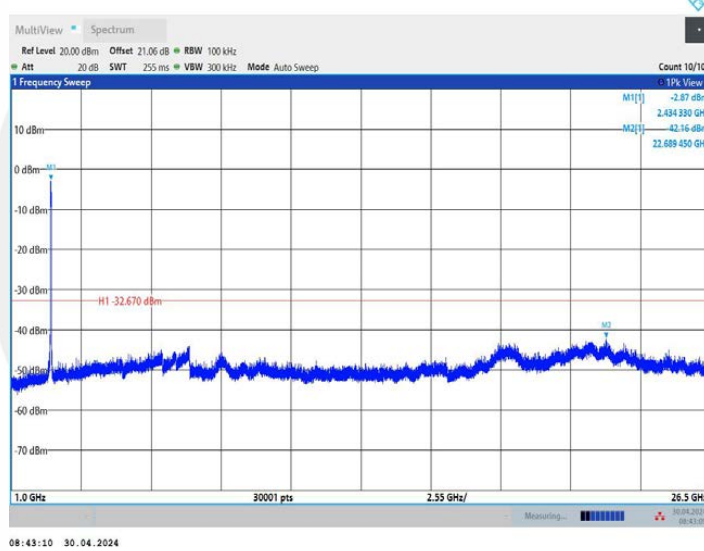
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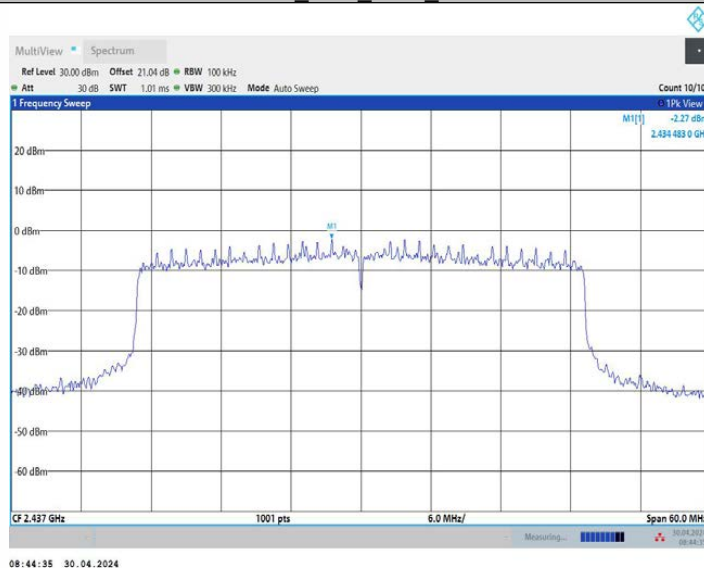
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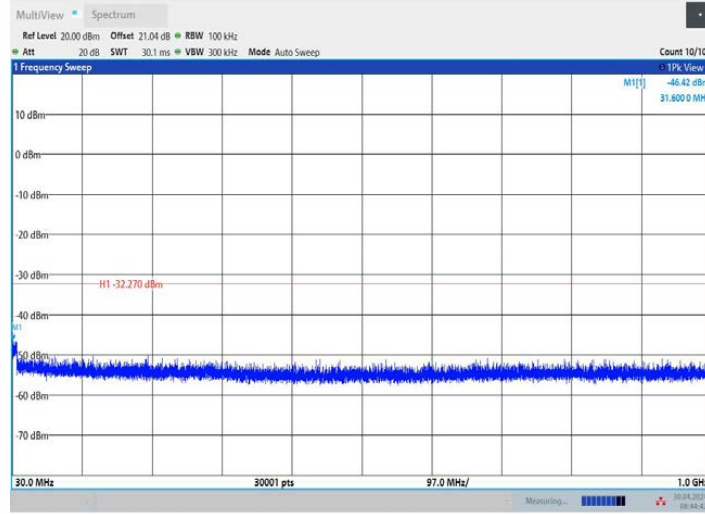
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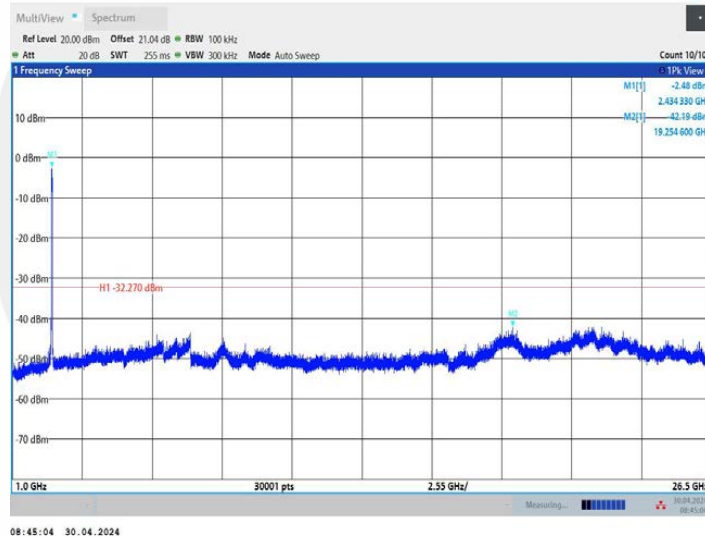
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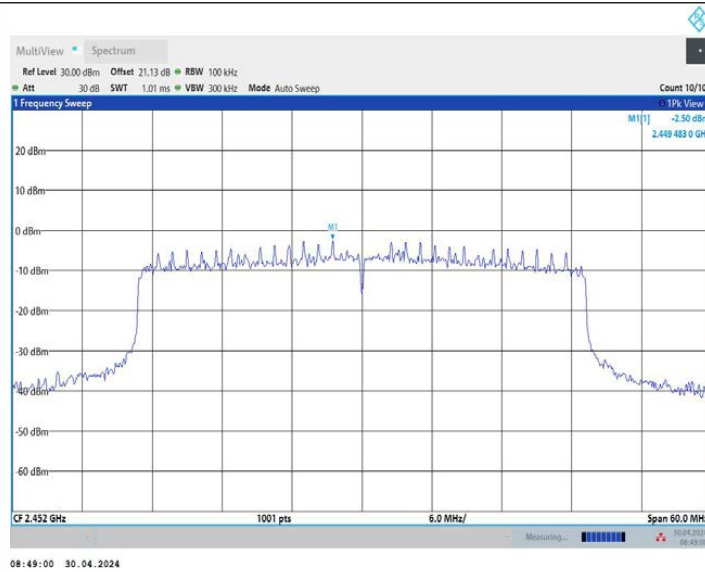
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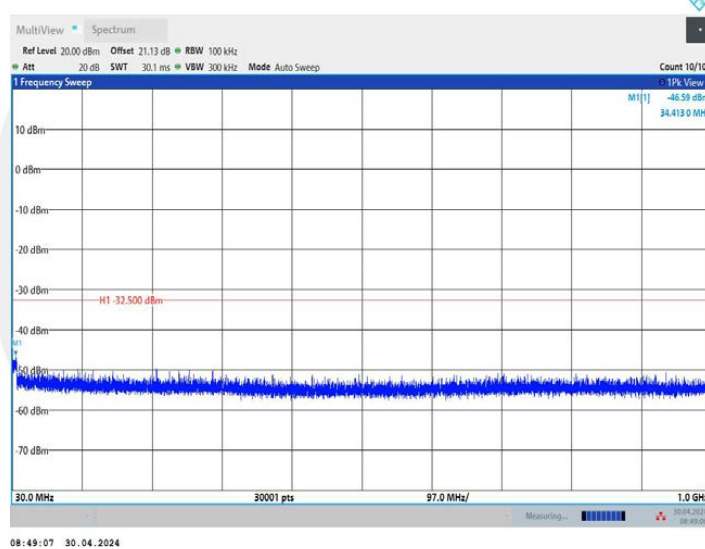
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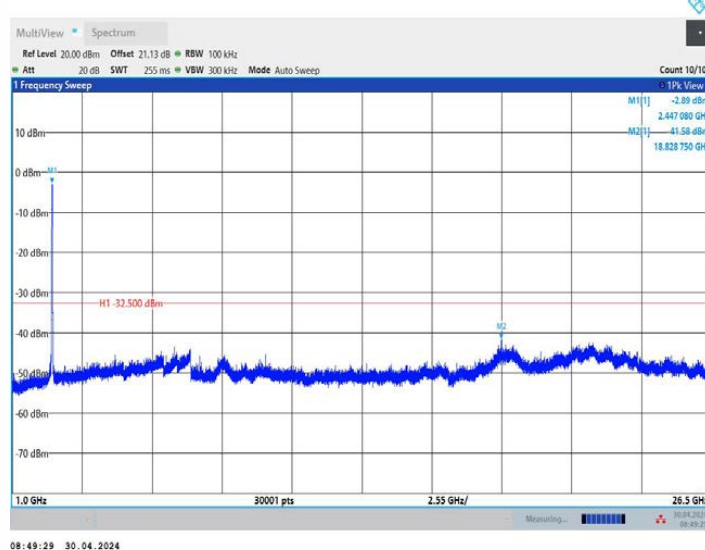
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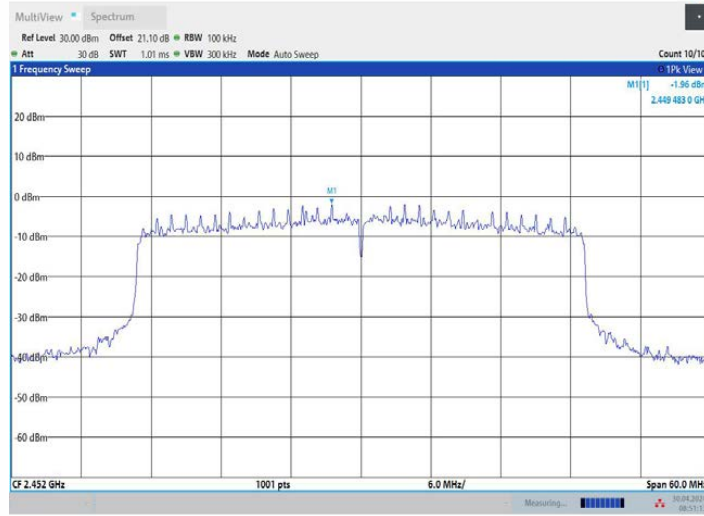
11AX40MIMO_Ant1_2452_30~1000



11AX40MIMO_Ant1_2452_1000~26500

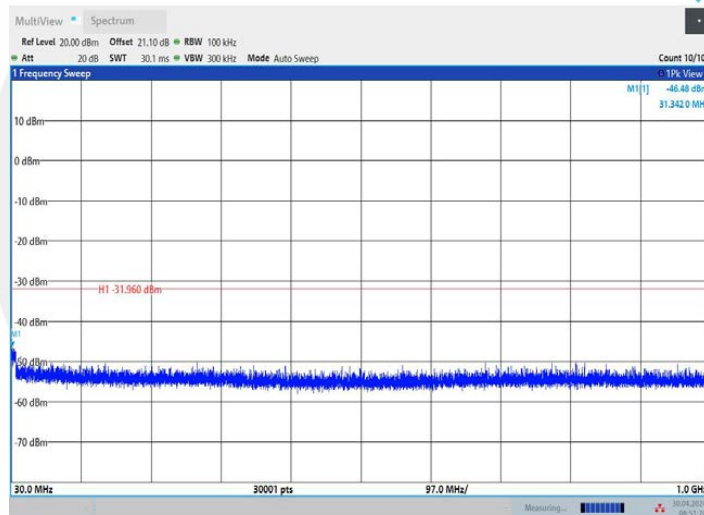


11AX40MIMO_Ant2_2452_0~Reference



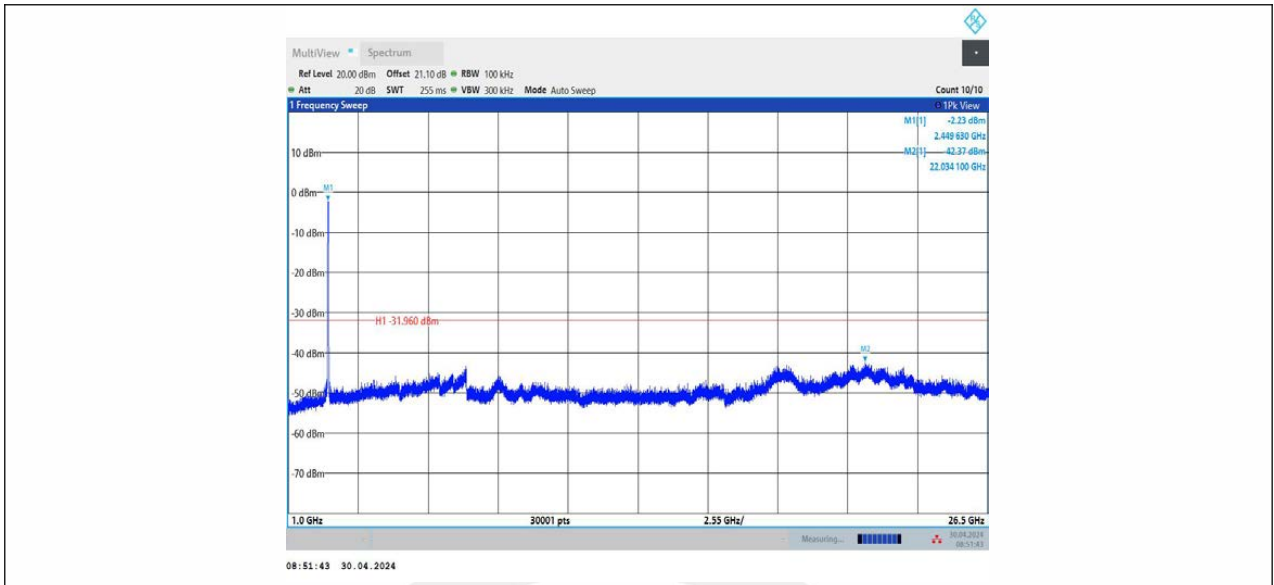
08:51:14 30.04.2024

11AX40MIMO_Ant2_2452_30~1000



08:51:21 30.04.2024

11AX40MIMO_Ant2_2452_1000~26500



8.7 RADIATED SPURIOUS EMISSION

8.7.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209

According to RSS-Gen and RSS-247

According to 558074 D01 15.247 Meas Guidance v05r02 Section 8.6

According to ANSI C63.10 Section 11.12

8.7.2 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
0.495-0.505	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	Above 38.6
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

8.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup

8.7.4 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 average measurements the resolution bandwidth of spectrum analyzer is 1 MHz with the video bandwidth is $\geq 1/T$ with peak detector.

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.

8.7.5 Test Results

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

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

For Spurious Emission below 30MHz (9KHz to 30MHz), was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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

All the antenna(Antenna 1&2) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1&2, 802.11n(HT20)) result recorded was report as below:

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

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
11497.5	V	56.88	3.79	60.67	74.00	13.33	Peak
13213.1	V	55.04	6.53	61.57	74.00	12.43	Peak
17656.8	V	55.04	10.83	65.87	74.00	8.13	Peak
11497.5	V	39.62	3.79	43.41	54.00	10.59	Avg
13213.12	V	35.18	6.53	41.71	54.00	12.29	Avg
17656.87	V	33.74	10.83	44.57	54.00	9.43	Avg
10880.6	H	56.35	2.93	59.28	74.00	14.72	Peak
13181.2	H	54.43	6.70	61.13	74.00	12.87	Peak
17542.5	H	54.89	10.84	65.73	74.00	8.27	Peak
10880.62	H	39.62	2.93	42.55	54.00	11.45	Avg
13181.25	H	35.12	6.70	41.82	54.00	12.18	Avg
17542.5	H	33.84	10.84	44.68	54.00	9.32	Avg

Note: (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
 (2) Avg RBW = 1 MHz, VBW = $1/T_{on}$, Detector = Peak, where: T_{on} is transmit duration;
 (3) Corrected Reading = Reading Level + Correct Factor;
 (4) Correct Factor = Ant_F + Cab_L - Preamp;
 (5) Margin = Limit - Corrected Reading;

Test mode: 802.11n(HT20) Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
9271.87	V	57.44	-0.23	57.21	74.00	16.79	Peak
11486.2	V	57.99	3.63	61.62	74.00	12.38	Peak
17030.6	V	55.86	10.41	66.27	74.00	7.73	Peak
9271.875	V	39.18	-0.23	38.95	54.00	15.05	Avg
11486.25	V	35.62	3.63	39.25	54.00	14.75	Avg
17030.62	V	33.84	10.41	44.25	54.00	9.75	Avg
9256.87	H	57.4	-0.31	57.09	74.00	16.91	Peak
11506.8	H	57.14	3.68	60.82	74.00	13.18	Peak
17041.8	H	55.98	10.06	66.04	74.00	7.96	Peak
9256.875	H	39.26	-0.31	38.95	54.00	15.05	Avg
11506.87	H	35.18	3.68	38.86	54.00	15.14	Avg
17041.87	H	33.17	10.06	43.23	54.00	10.77	Avg

Note: (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
 (2) Avg RBW = 1 MHz, VBW = $1/T_{on}$, Detector = Peak, where: T_{on} is transmit duration;
 (3) Corrected Reading = Reading Level + Correct Factor;
 (4) Correct Factor = Ant_F + Cab_L - Preamp;
 (5) Margin = Limit - Corrected Reading;

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

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
9236.25	V	58.02	-0.47	57.55	74.00	16.45	Peak
11499.3	V	57.4	3.82	61.22	74.00	12.78	Avg
17656.8	V	55.07	10.83	65.90	74.00	8.10	Peak
9236.25	V	39.26	-0.47	38.79	54.00	15.21	Avg
11499.37	V	35.38	3.82	39.20	54.00	14.80	Peak
17656.87	V	33.94	10.83	44.77	54.00	9.23	Avg
7548.75	H	58.95	-5.14	53.81	74.00	20.19	Avg
11520	H	57.1	3.41	60.51	74.00	13.49	Peak
17021.2	H	54.79	10.70	65.49	74.00	8.51	Avg
7548.75	H	39.26	-5.14	34.12	54.00	19.88	Peak
11520	H	35.18	3.41	38.59	54.00	15.41	Avg
17021.25	H	33.84	10.70	44.54	54.00	9.46	Peak

Note:

- (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW = $1/T_{on}$, Detector = Peak, where: T_{on} is transmit duration;
- (3) Corrected Reading = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;

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

All the antenna(Antenna 1&2) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1&2, 802.11n(HT20)) result recorded was report as below:

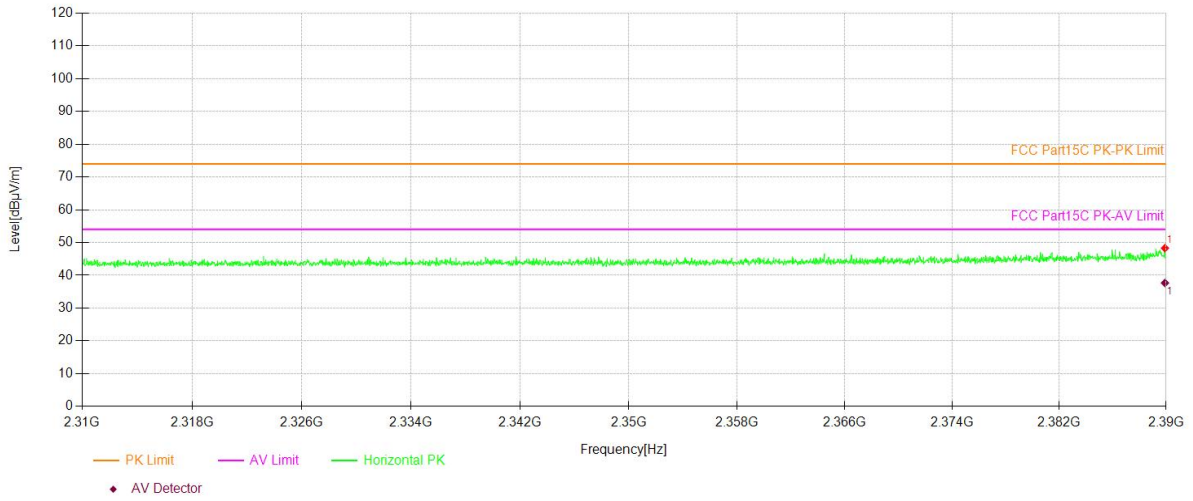
Test mode: 802.11n(HT20) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
2389.43	V	27.06	30.78	57.84	74.00	16.16	Peak
2389.43	V	6.94	30.78	37.72	54.00	16.28	Avg
2389.92	H	17.52	30.78	48.30	74.00	25.70	Peak
2389.92	H	6.89	30.78	37.67	54.00	16.33	Avg
Note: (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading;							

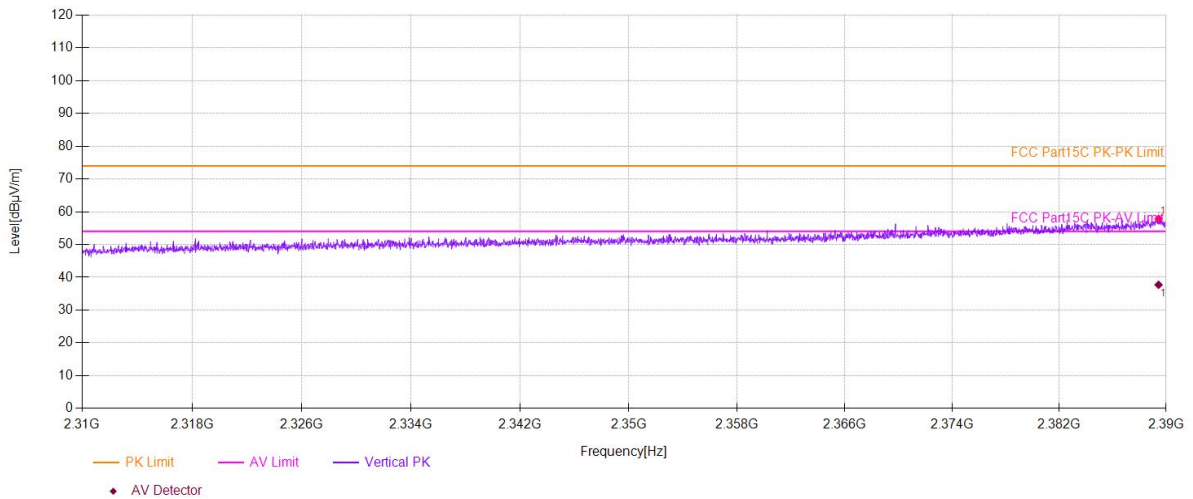
Test mode: 802.11n(HT20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
2483.55	V	29.86	31.04	60.90	74.00	13.10	Peak
2483.55	V	7.26	31.04	38.30	54.00	15.70	Avg
2487.06	H	23.37	31.06	54.43	74.00	19.57	Peak
2487.06	H	7.52	31.06	38.58	54.00	15.42	Avg
Note: (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW = $1/T_{on}$, Detector = Peak, where: T_{on} is transmit duration; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading;							

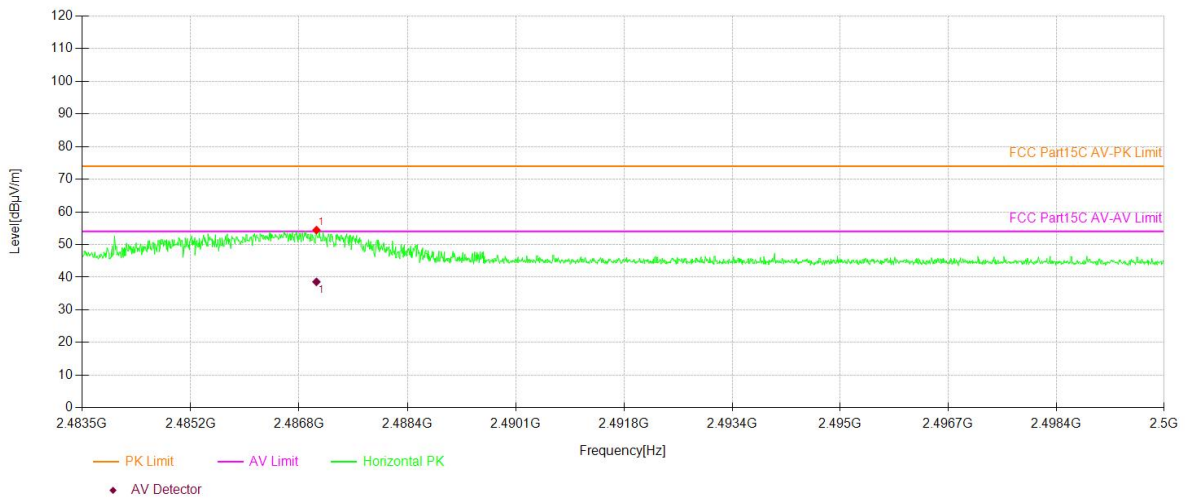
Test Model **Spurious Emission in Restricted Band 2310-2390MHz**
802.11n(HT20) **Channel 1: 2412MHz** **Polarity: H**



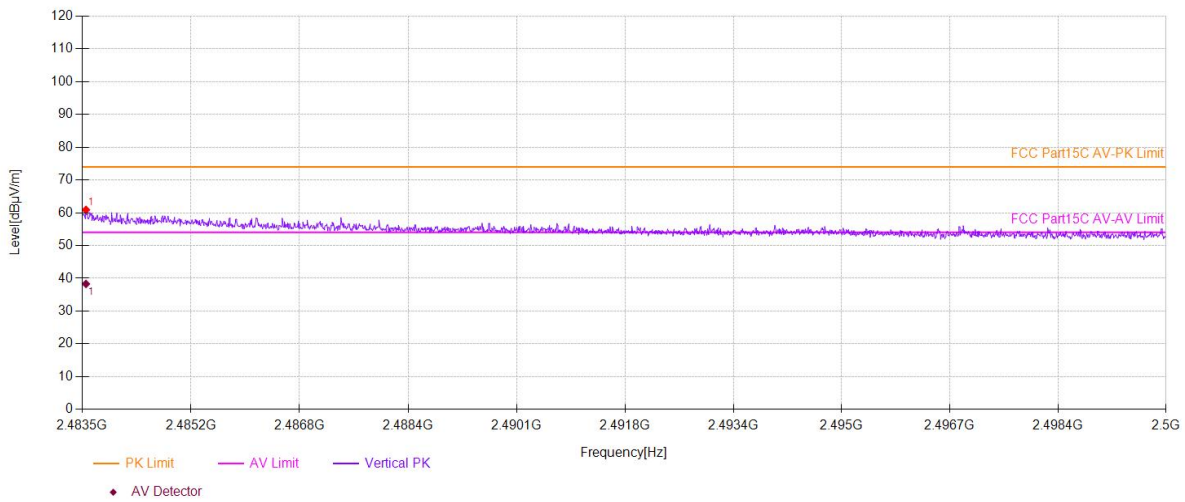
Test Model **Spurious Emission in Restricted Band 2310-2390MHz**
802.11n(HT20) **Channel 1: 2412MHz** **Polarity: V**



Test Model 802.11n(HT20) **Spurious Emission in Restricted Band 2483.5-2500MHz**
Channel 11: 2462MHz **Polarity: H**



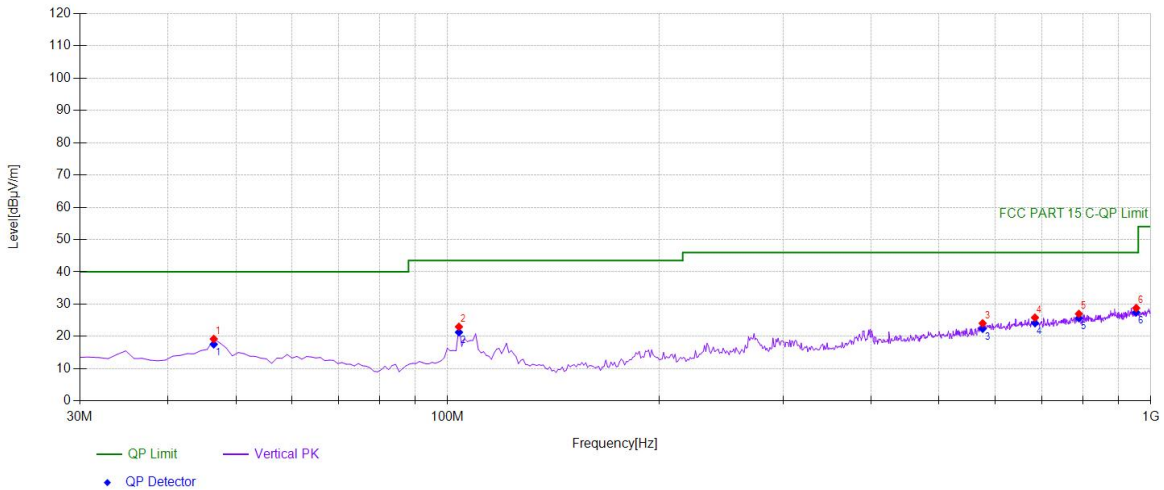
Test Model 802.11n(HT20) **Spurious Emission in Restricted Band 2483.5-2500MHz**
Channel 11: 2462MHz **Polarity: V**



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

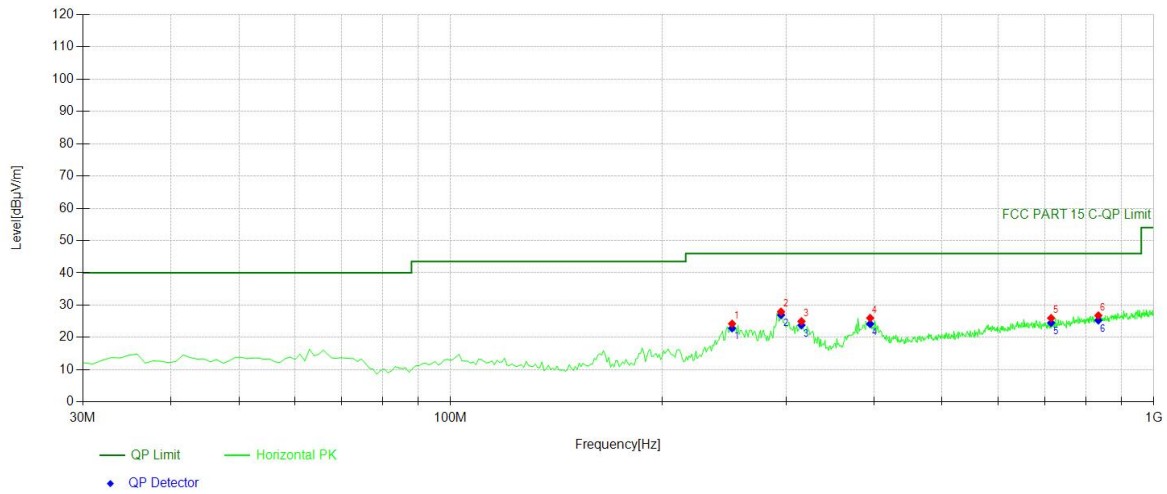
All the antenna(Antenna 1&2) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1, 802.11b) result recorded was report as below:

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	46.5065	36.70	-17.45	19.25	PK	40.00	20.75	Vertical
2	103.793	40.00	-17.00	23.00	PK	43.50	20.50	Vertical
3	576.656	31.52	-7.44	24.08	PK	46.00	21.92	Vertical
4	684.434	31.90	-6.07	25.83	PK	46.00	20.17	Vertical
5	790.270	31.53	-4.52	27.01	PK	46.00	18.99	Vertical
6	953.393	31.11	-2.31	28.80	PK	46.00	17.20	Vertical

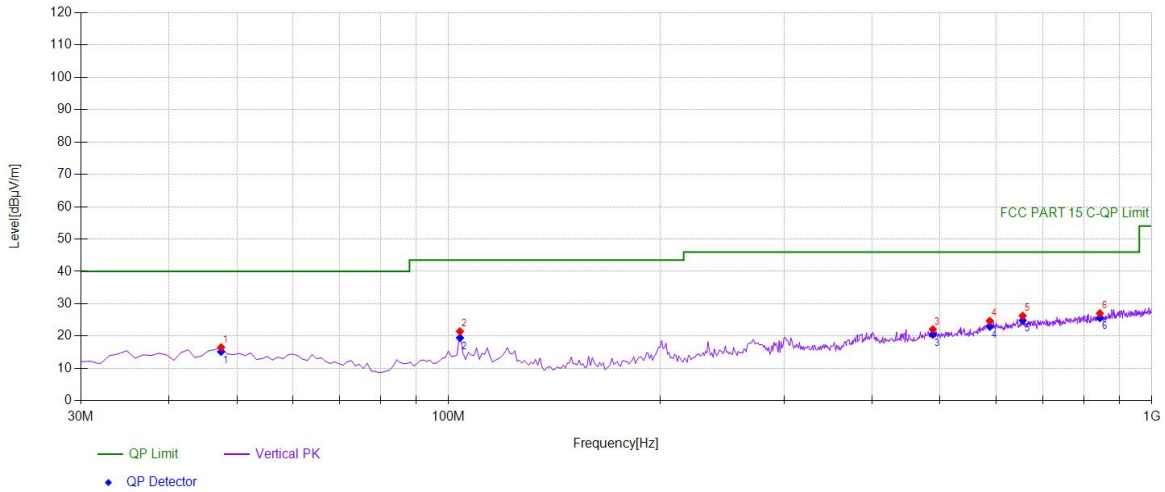
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]
1	46.5065	-17.45	17.56	40.00	22.44
2	103.7938	-17.00	21.31	43.50	22.19
3	576.6567	-7.44	22.39	46.00	23.61
4	684.4344	-6.07	24.14	46.00	21.86
5	790.2703	-4.52	25.67	46.00	20.33
6	953.3934	-2.31	27.46	46.00	18.54



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	251.381	39.41	-15.17	24.24	PK	46.00	21.76	Horizontal
2	295.075	42.12	-14.15	27.97	PK	46.00	18.03	Horizontal
3	315.465	39.13	-14.14	24.99	PK	46.00	21.01	Horizontal
4	395.085	37.82	-11.81	26.01	PK	46.00	19.99	Horizontal
5	714.534	31.81	-5.83	25.98	PK	46.00	20.02	Horizontal
6	833.964	30.81	-4.02	26.79	PK	46.00	19.21	Horizontal

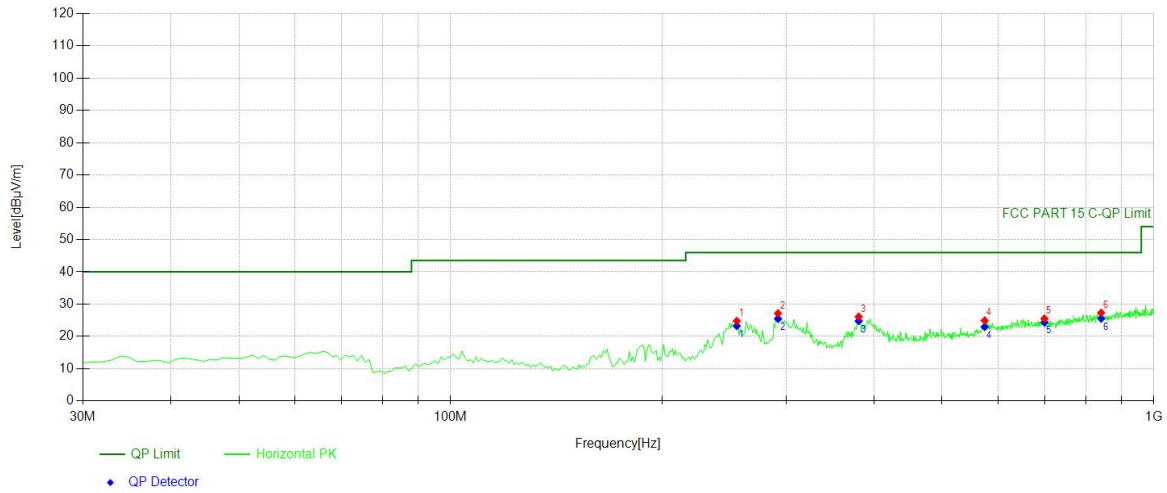
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]
1	251.3814	-15.17	22.86	46.00	23.14
2	295.0751	-14.15	26.95	46.00	19.05
3	315.4655	-14.14	23.80	46.00	22.20
4	395.0851	-11.81	24.18	46.00	21.82
5	714.5345	-5.83	24.51	46.00	21.49
6	833.964	-4.02	25.32	46.00	20.68

Mode: 11B 2437



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	47.4775	33.91	-17.39	16.52	PK	40.00	23.48	Vertical
2	103.793	38.45	-17.00	21.45	PK	43.50	22.05	Vertical
3	488.298	31.90	-9.80	22.10	PK	46.00	23.90	Vertical
4	588.308	31.84	-7.14	24.70	PK	46.00	21.30	Vertical
5	655.305	32.46	-6.17	26.29	PK	46.00	19.71	Vertical
6	843.673	30.88	-3.84	27.04	PK	46.00	18.96	Vertical

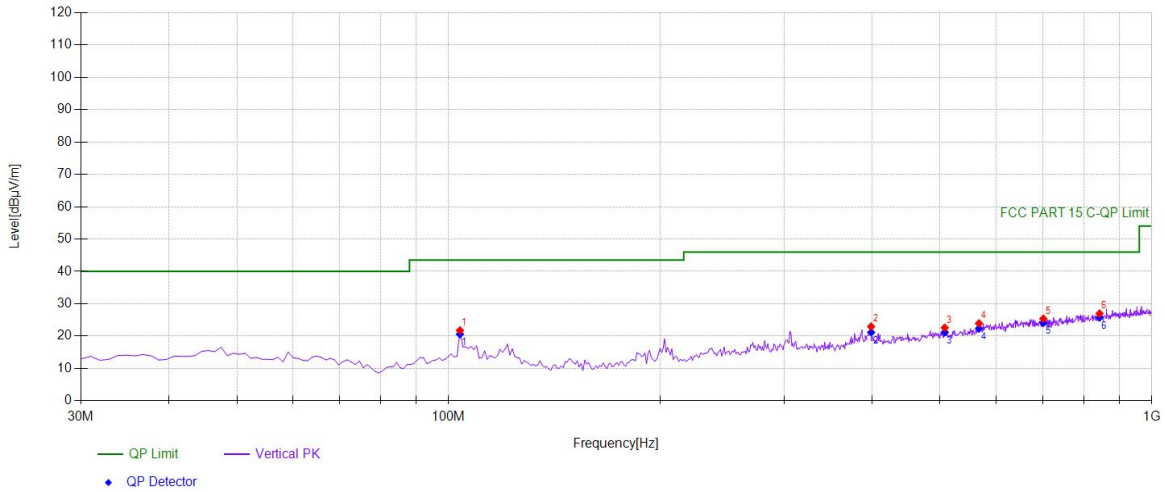
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]
1	47.4775	-17.39	15.20	40.00	24.80
2	103.7938	-17.00	19.49	43.50	24.01
3	488.2983	-9.80	20.50	46.00	25.50
4	588.3083	-7.14	22.94	46.00	23.06
5	655.3053	-6.17	24.88	46.00	21.12
6	843.6737	-3.84	25.63	46.00	20.37



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	255.265	39.95	-15.17	24.78	PK	46.00	21.22	Horizontal
2	292.162	41.32	-14.16	27.16	PK	46.00	18.84	Horizontal
3	380.520	37.94	-11.83	26.11	PK	46.00	19.89	Horizontal
4	574.714	32.57	-7.63	24.94	PK	46.00	21.06	Horizontal
5	698.999	31.48	-5.95	25.53	PK	46.00	20.47	Horizontal
6	841.731	31.18	-3.85	27.33	PK	46.00	18.67	Horizontal

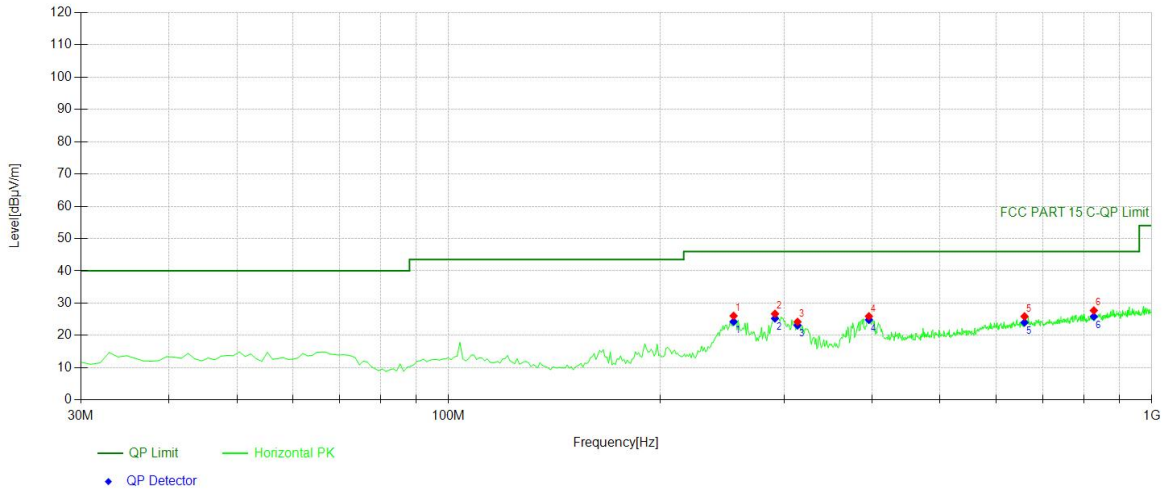
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	255.2653	-15.17	23.25	46.00	22.75
2	292.1622	-14.16	25.47	46.00	20.53
3	380.5205	-11.83	24.78	46.00	21.22
4	574.7147	-7.63	22.97	46.00	23.03
5	698.999	-5.95	24.39	46.00	21.61
6	841.7317	-3.85	25.55	46.00	20.45

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	103.793	38.76	-17.00	21.76	PK	43.50	21.74	Vertical
2	398.969	34.75	-11.79	22.96	PK	46.00	23.04	Vertical
3	507.717	32.40	-9.78	22.62	PK	46.00	23.38	Vertical
4	567.917	32.20	-8.25	23.95	PK	46.00	22.05	Vertical
5	700.940	31.32	-5.93	25.39	PK	46.00	20.61	Vertical
6	842.702	30.84	-3.84	27.00	PK	46.00	19.00	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]
1	103.7938	-17.00	20.61	43.50	22.89
2	398.969	-11.79	21.17	46.00	24.83
3	507.7177	-9.78	21.19	46.00	24.81
4	567.9179	-8.25	22.35	46.00	23.65
5	700.9409	-5.93	24.15	46.00	21.85
6	842.7027	-3.84	25.76	46.00	20.24



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	254.294	41.24	-15.17	26.07	PK	46.00	19.93	Horizontal
2	291.191	40.87	-14.16	26.71	PK	46.00	19.29	Horizontal
3	313.523	38.36	-14.14	24.22	PK	46.00	21.78	Horizontal
4	396.056	37.74	-11.81	25.93	PK	46.00	20.07	Horizontal
5	659.189	32.05	-6.14	25.91	PK	46.00	20.09	Horizontal
6	827.167	31.91	-4.17	27.74	PK	46.00	18.26	Horizontal

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]
1	254.2943	-15.17	24.27	46.00	21.73
2	291.1912	-14.16	25.26	46.00	20.74
3	313.5235	-14.14	23.13	46.00	22.87
4	396.0561	-11.81	24.84	46.00	21.16
5	659.1892	-6.14	24.02	46.00	21.98
6	827.1672	-4.17	25.85	46.00	20.15

8.8 CONDUCTED EMISSION TEST

8.8.1 Applicable Standard

According to FCC Part 15.207(a)

According to RSS-Gen 8.8

8.8.2 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.

8.8.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

8.8.4 Test Procedure

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

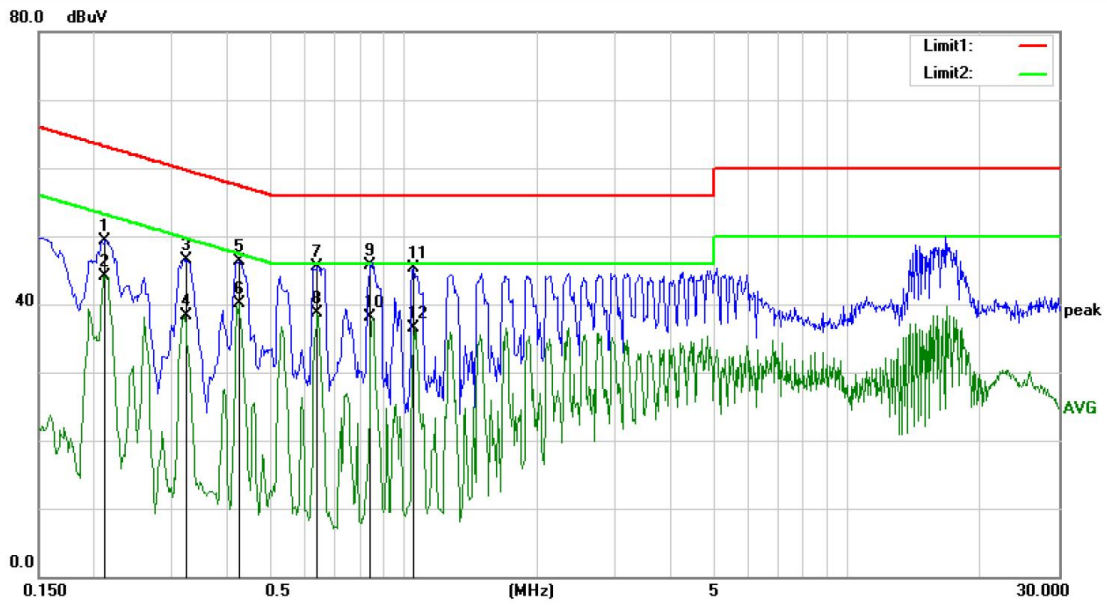
Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.8.5 Test Results

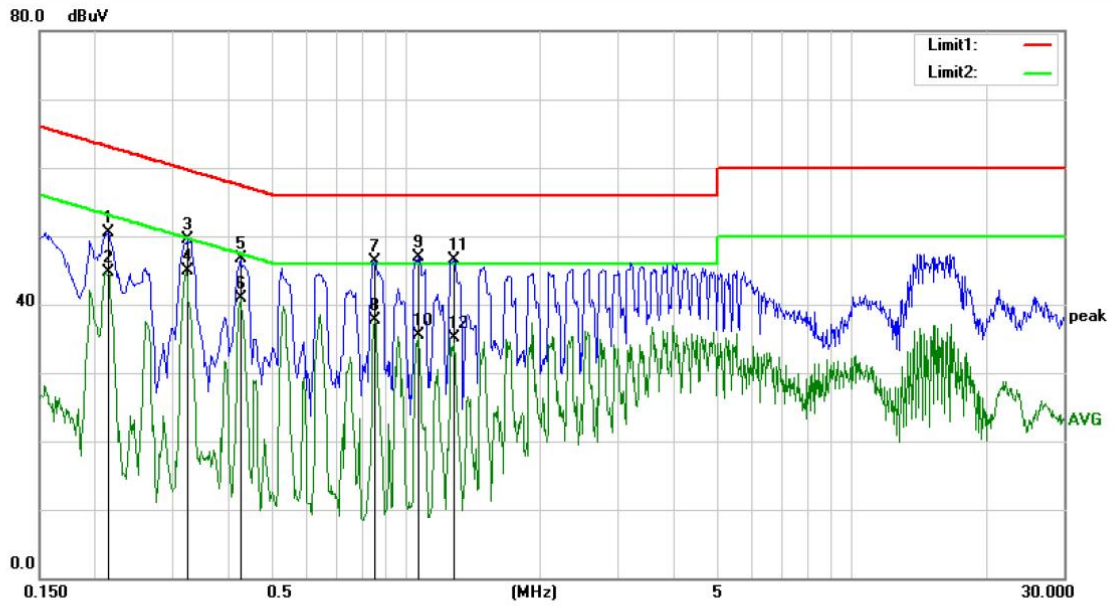
Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #2 Phase: **N** Temperature: 25.1
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 45 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2116	39.30	10.08	49.38	63.14	-13.76	QP	
2		0.2116	33.99	10.08	44.07	53.14	-9.07	AVG	
3		0.3250	36.47	10.10	46.57	59.58	-13.01	QP	
4		0.3250	28.14	10.10	38.24	49.58	-11.34	AVG	
5		0.4250	36.22	10.12	46.34	57.35	-11.01	QP	
6	*	0.4250	29.92	10.12	40.04	47.35	-7.31	AVG	
7		0.6400	35.31	10.13	45.44	56.00	-10.56	QP	
8		0.6400	28.50	10.13	38.63	46.00	-7.37	AVG	
9		0.8400	35.58	10.17	45.75	56.00	-10.25	QP	
10		0.8400	27.95	10.17	38.12	46.00	-7.88	AVG	
11		1.0500	35.07	10.19	45.26	56.00	-10.74	QP	
12		1.0500	26.32	10.19	36.51	46.00	-9.49	AVG	



Site Conduction #2 Phase: **L1** Temperature: 25.1
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 45 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2150	40.45	10.08	50.53	63.01	-12.48	QP	
2		0.2150	34.53	10.08	44.61	53.01	-8.40	AVG	
3		0.3215	39.46	10.10	49.56	59.67	-10.11	QP	
4	*	0.3215	34.82	10.10	44.92	49.67	-4.75	AVG	
5		0.4250	36.63	10.12	46.75	57.35	-10.60	QP	
6		0.4250	30.86	10.12	40.98	47.35	-6.37	AVG	
7		0.8500	36.22	10.17	46.39	56.00	-9.61	QP	
8		0.8500	27.46	10.17	37.63	46.00	-8.37	AVG	
9		1.0700	36.66	10.18	46.84	56.00	-9.16	QP	
10		1.0700	25.38	10.18	35.56	46.00	-10.44	AVG	
11		1.2800	36.30	10.17	46.47	56.00	-9.53	QP	
12		1.2800	25.03	10.17	35.20	46.00	-10.80	AVG	

8.9 ANTENNA APPLICATION

8.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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. 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.

8.9.2 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 -----