



Appendix B

WCDMA BAND II & IV & V



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

BAND	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BAND II	9262	23.21	20.60	33.00	PASS
BAND II	9400	23.23	20.62	33.00	PASS
BAND II	9538	23.11	20.50	33.00	PASS
BAND IV	1312	23.13	22.85	30.00	PASS
BAND IV	1413	23.14	22.86	30.00	PASS
BAND IV	1513	23.05	22.77	30.00	PASS

BAND	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BAND V	4132	23.16	17.6	38.45	PASS
BAND V	4182	23.05	17.49	38.45	PASS
BAND V	4233	23.12	17.56	38.45	PASS

Note:

a: For getting the ERP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

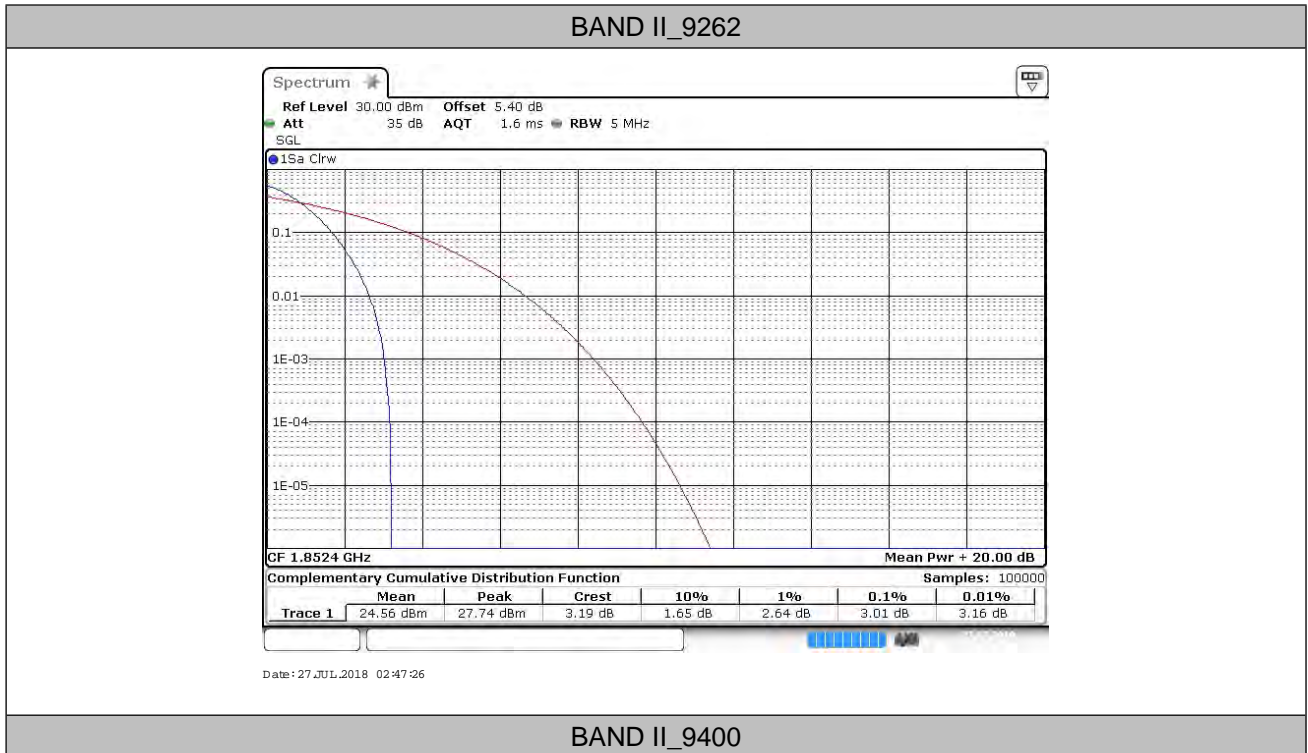


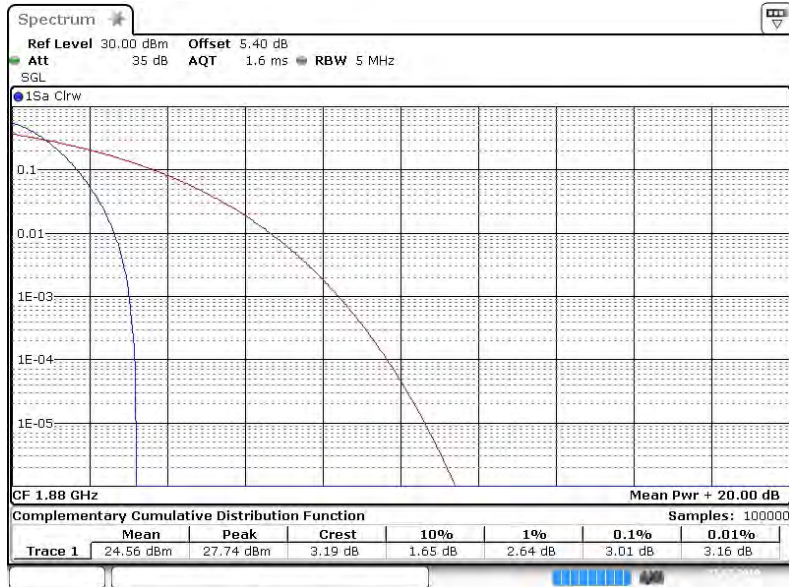
2. Peak-to-Average Ratio

2.1. Test Result

BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
BAND II	9262	3.01	13	PASS
BAND II	9400	3.01	13	PASS
BAND II	9538	3.01	13	PASS
BAND IV	1312	3.10	13	PASS
BAND IV	1413	3.10	13	PASS
BAND IV	1513	3.10	13	PASS
BAND V	4132	3.19	13	PASS
BAND V	4182	3.19	13	PASS
BAND V	4233	3.19	13	PASS

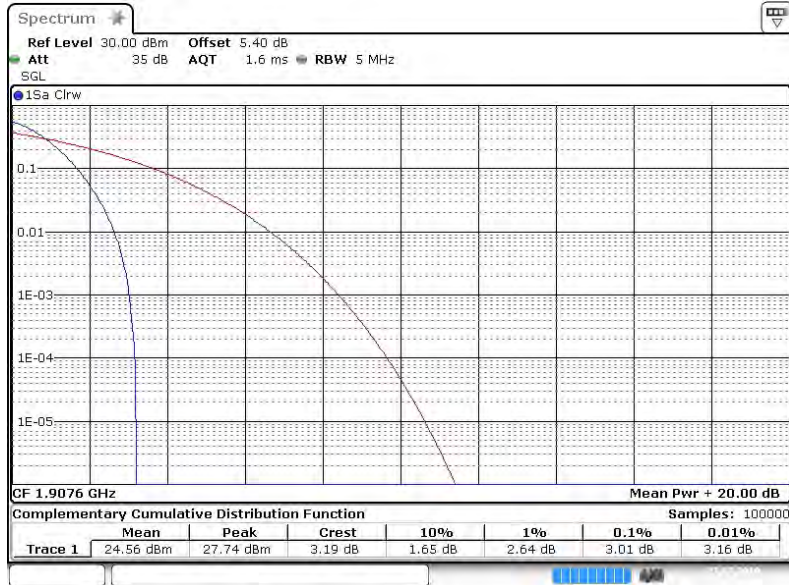
2.2. Test Plots





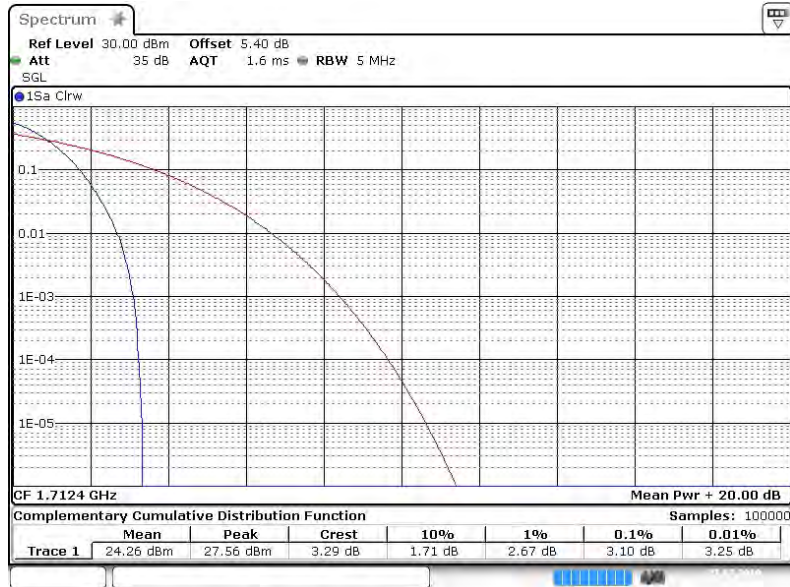
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BAND II_9538



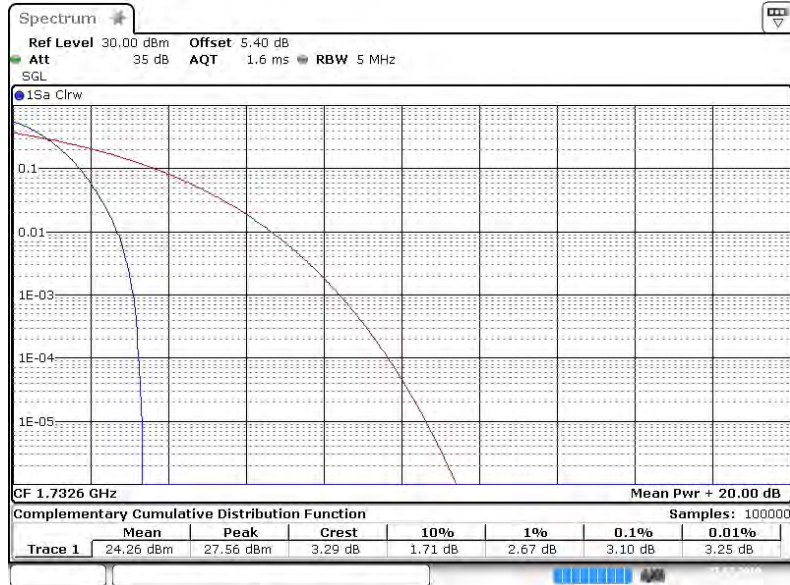
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BAND IV_1312



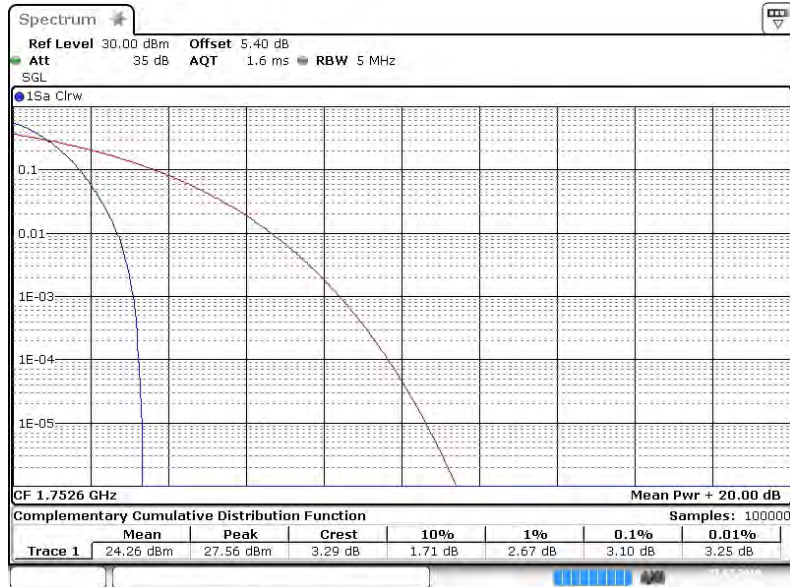
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BAND IV_1413



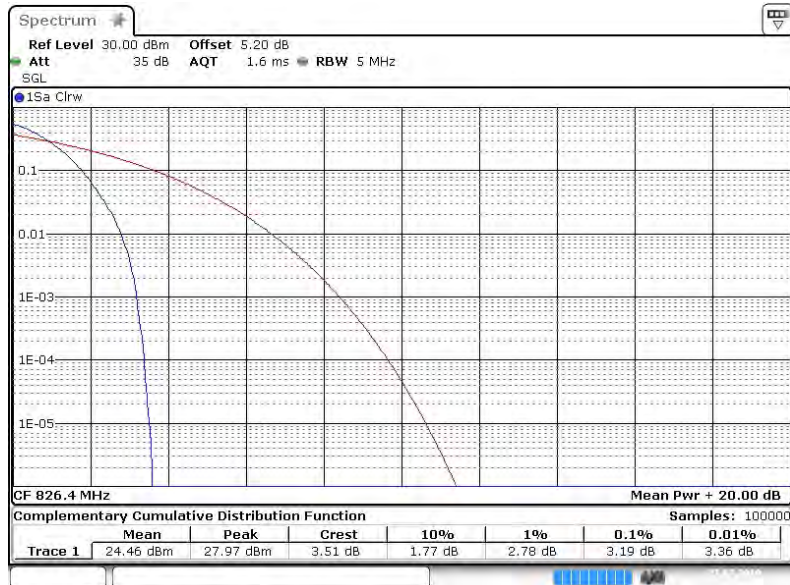
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BAND IV_1513



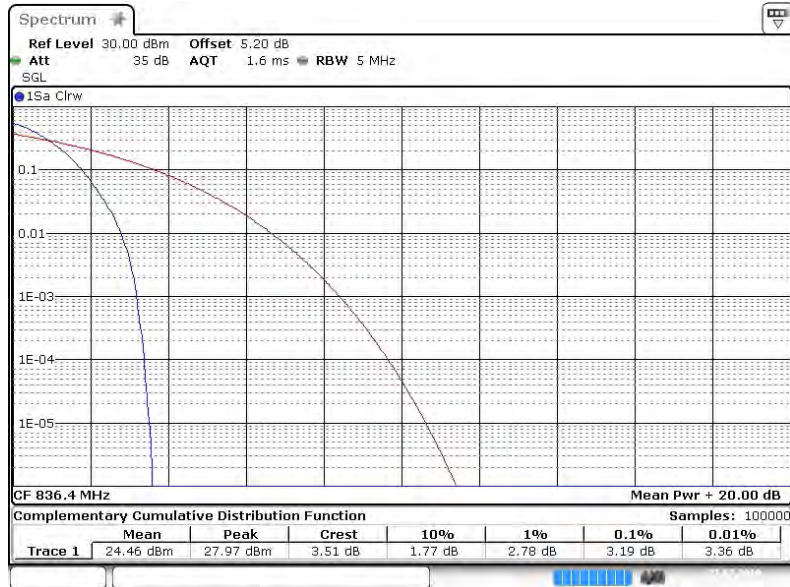
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BAND V_4132



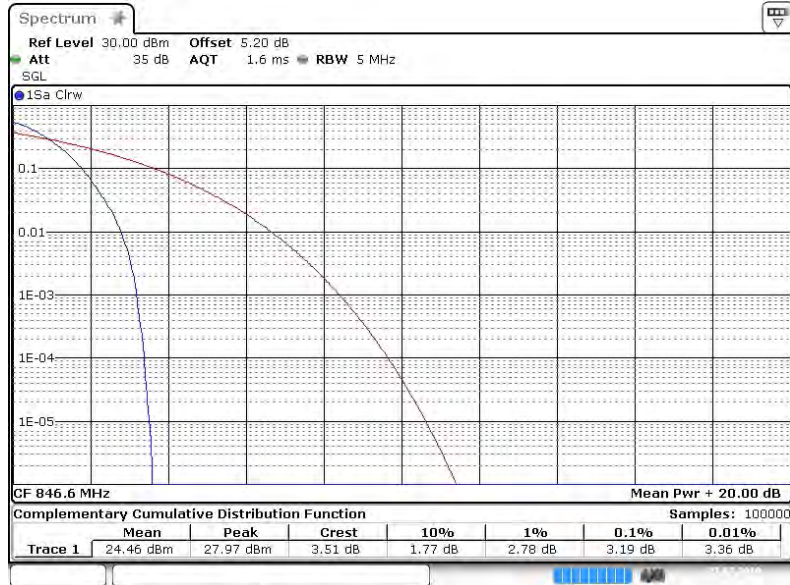
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BAND V_4182



Date: 27 JUL 2018 03:01:45

BAND V_4233



Date: 27 JUL 2018 03:01:54



3. Modulation Characteristics

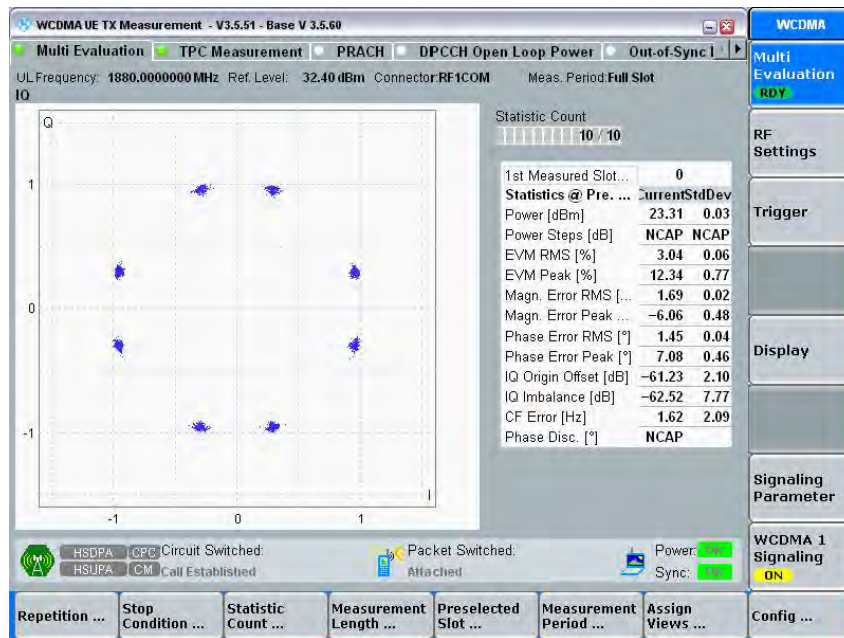
Part I - Test Plots

3.1. For WCDMA

3.1.1. Test BAND = WCDMA BAND II

3.1.1.1. Test Mode = UMTS/TM1

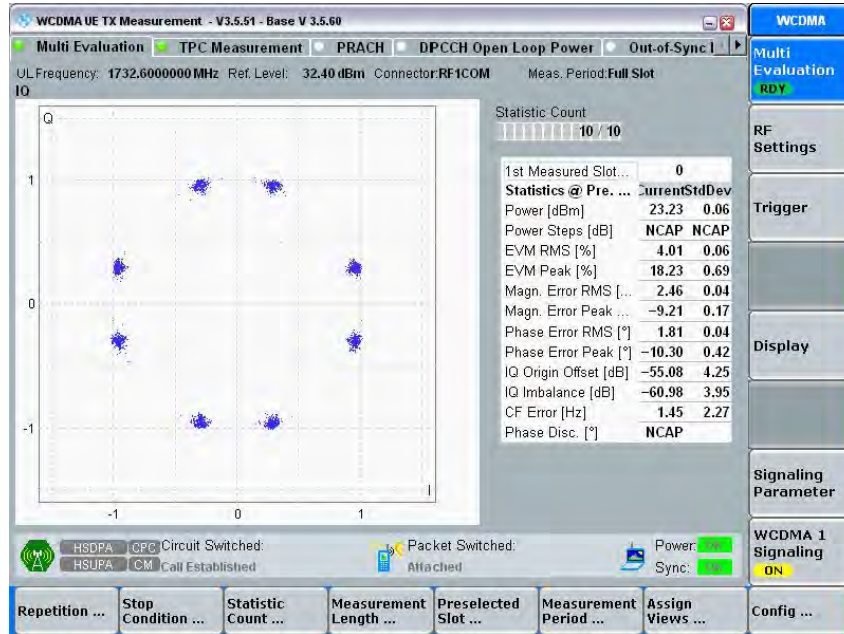
3.1.1.1.1. Test Channel = MCH



3.1.2. Test BAND = WCDMA BAND IV

3.1.2.1. Test Mode = UMTS/TM1

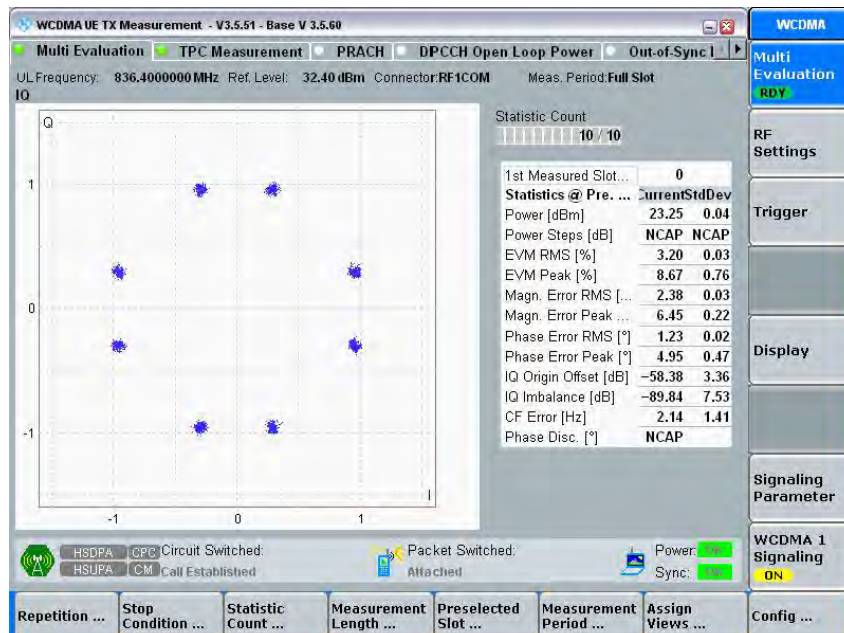
3.1.2.1.1. Test Channel = MCH



3.1.3. Test BAND = WCDMA BAND V

3.1.3.1. Test Mode = UMTS /TM1

3.1.3.1.1. Test Channel = MCH



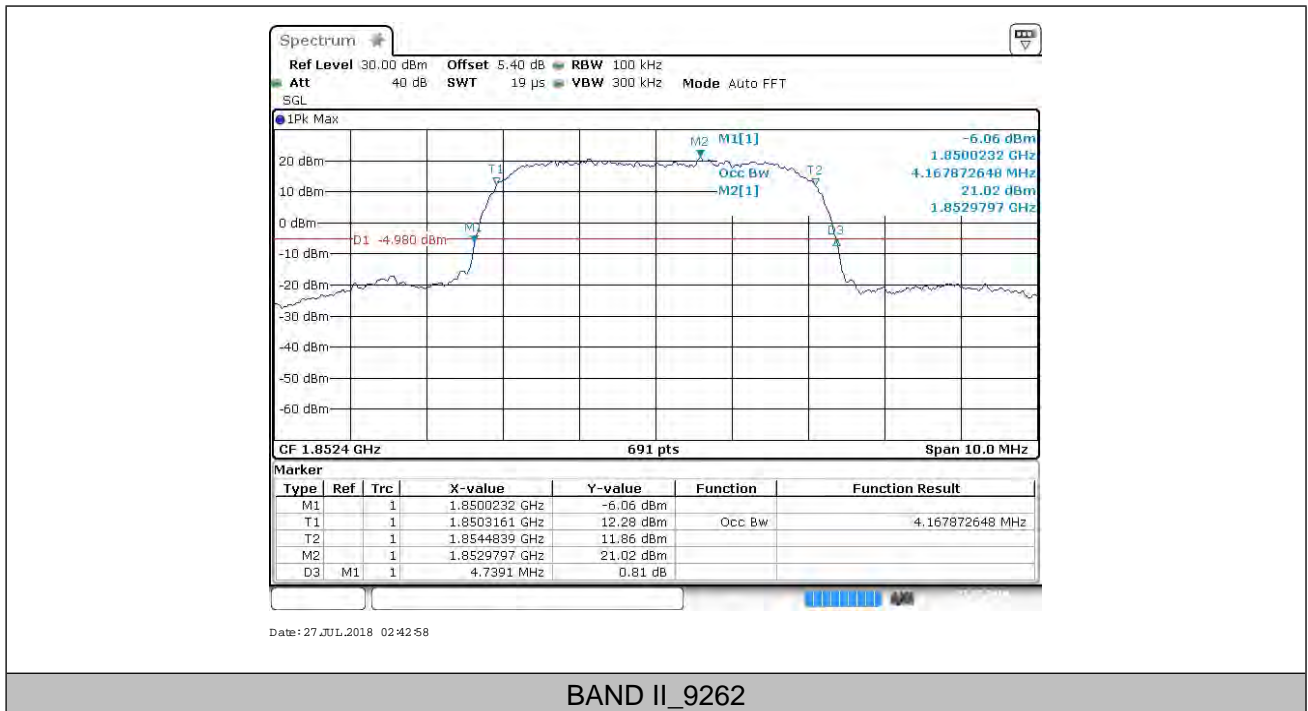


4. 26dB Bandwidth and Occupied Bandwidth

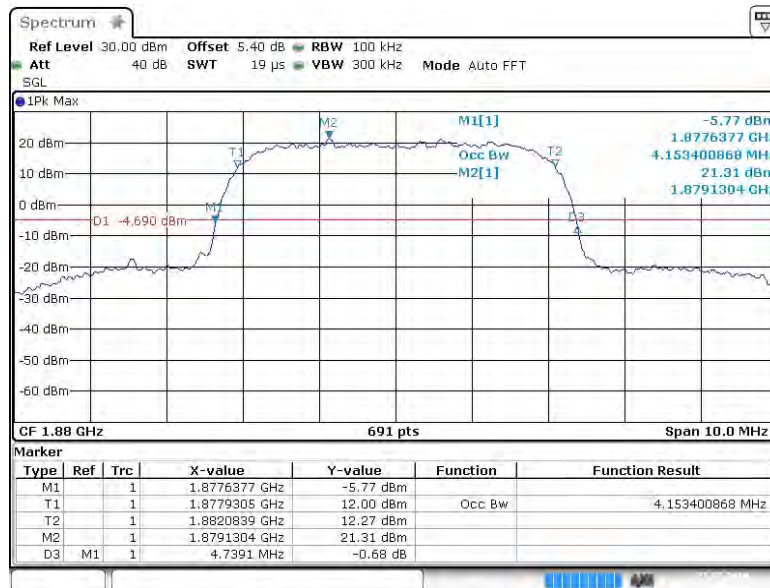
4.1. Test Result

BAND	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
BAND II	9262	4167.9	4739	---	PASS
BAND II	9400	4153.4	4739	---	PASS
BAND II	9538	4153.4	4725	---	PASS
BAND IV	1312	4153.4	4739	---	PASS
BAND IV	1413	4153.4	4739	---	PASS
BAND IV	1513	4167.9	4725	---	PASS
BAND V	4132	4153.4	4725	---	PASS
BAND V	4182	4167.9	4725	---	PASS
BAND V	4233	4153.4	4725	---	PASS

4.2. Test Plots

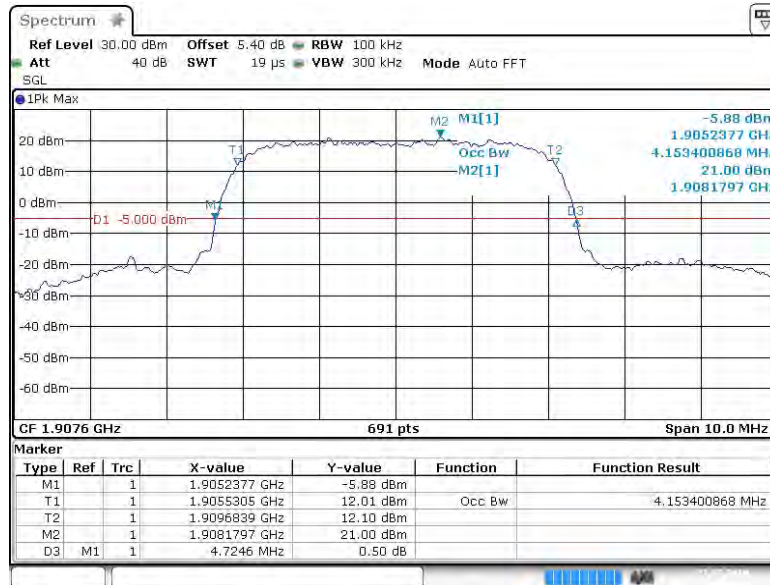


BAND II_9262



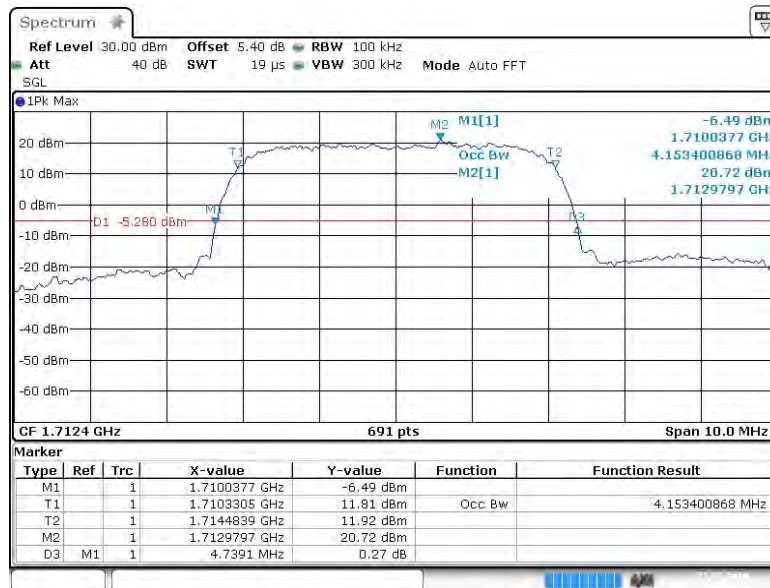
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BAND II_9400



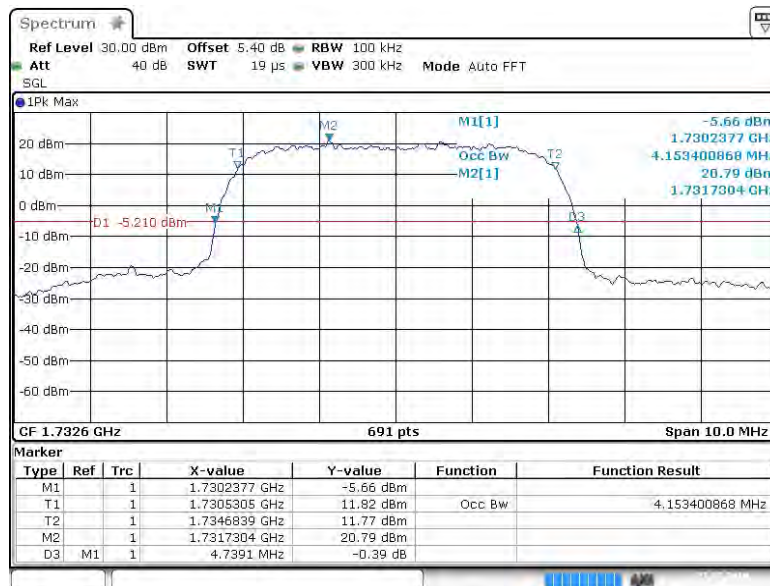
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BAND II_9538



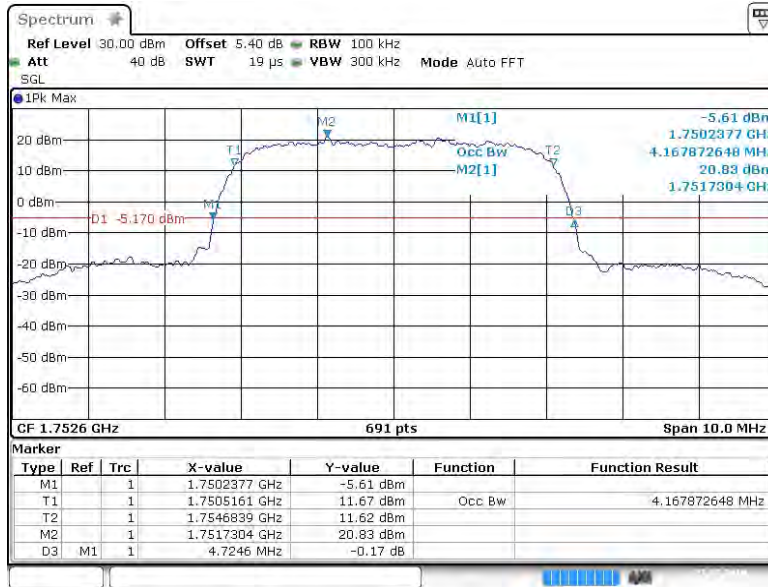
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BAND IV_1312



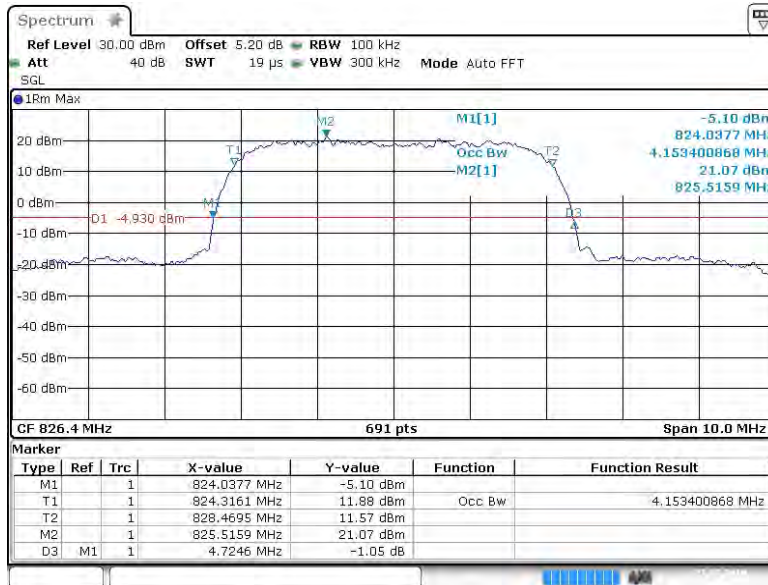
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BAND IV_1413



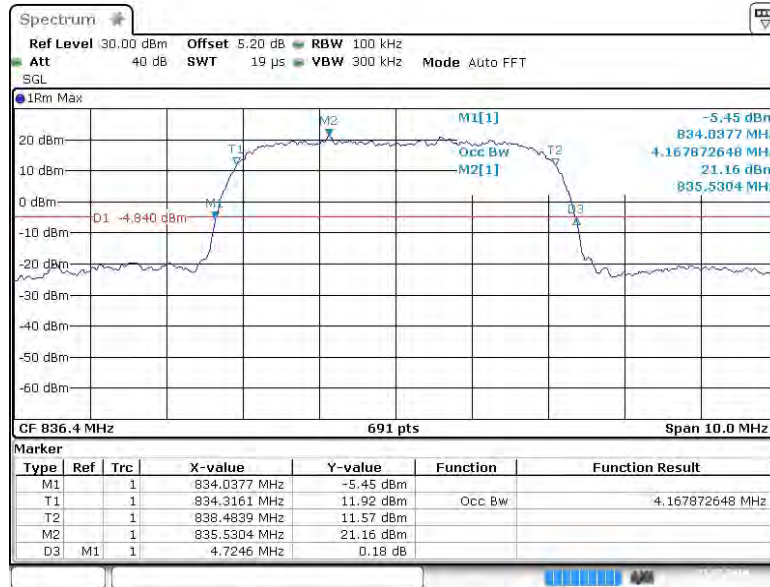
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BAND IV_1513



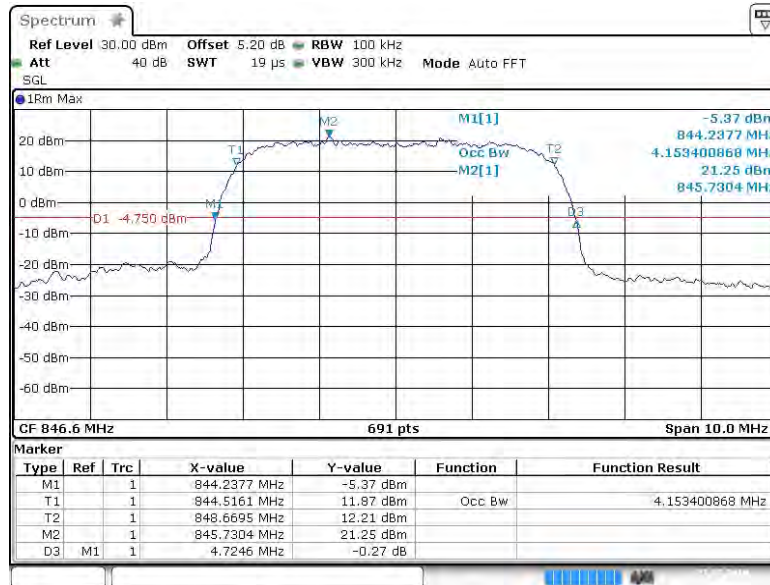
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BAND V_4132



Date: 27 JUL 2018 02:58:17

BAND V_4182

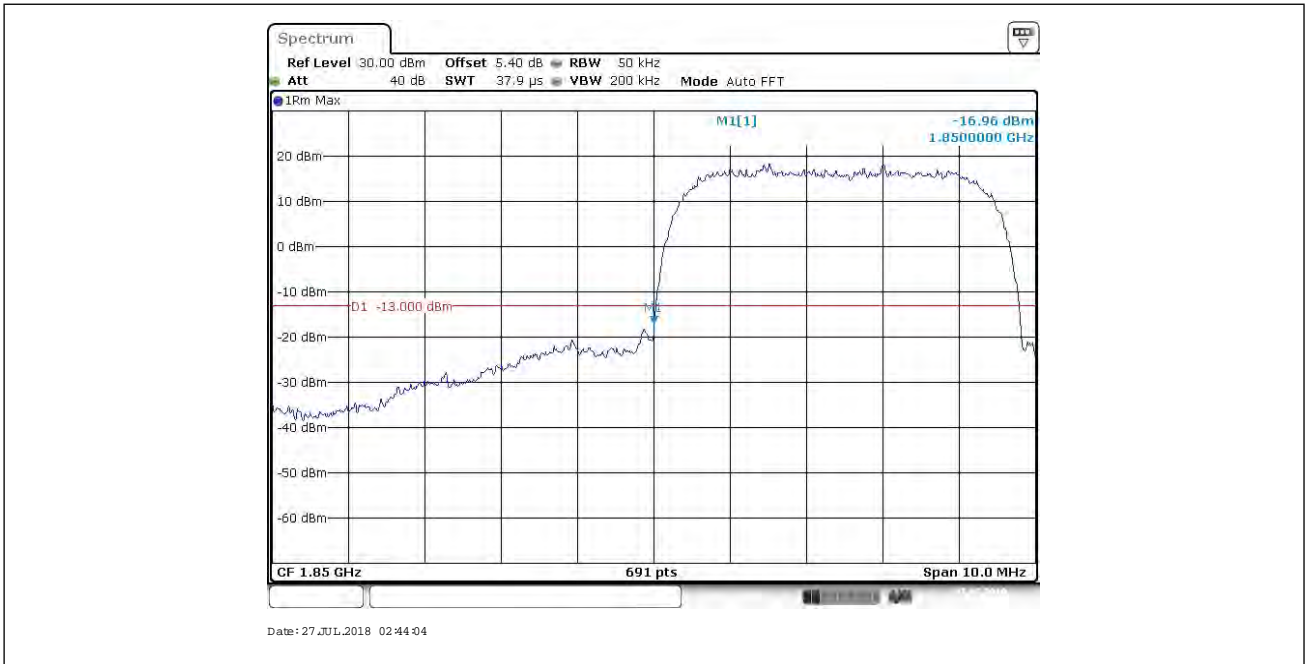


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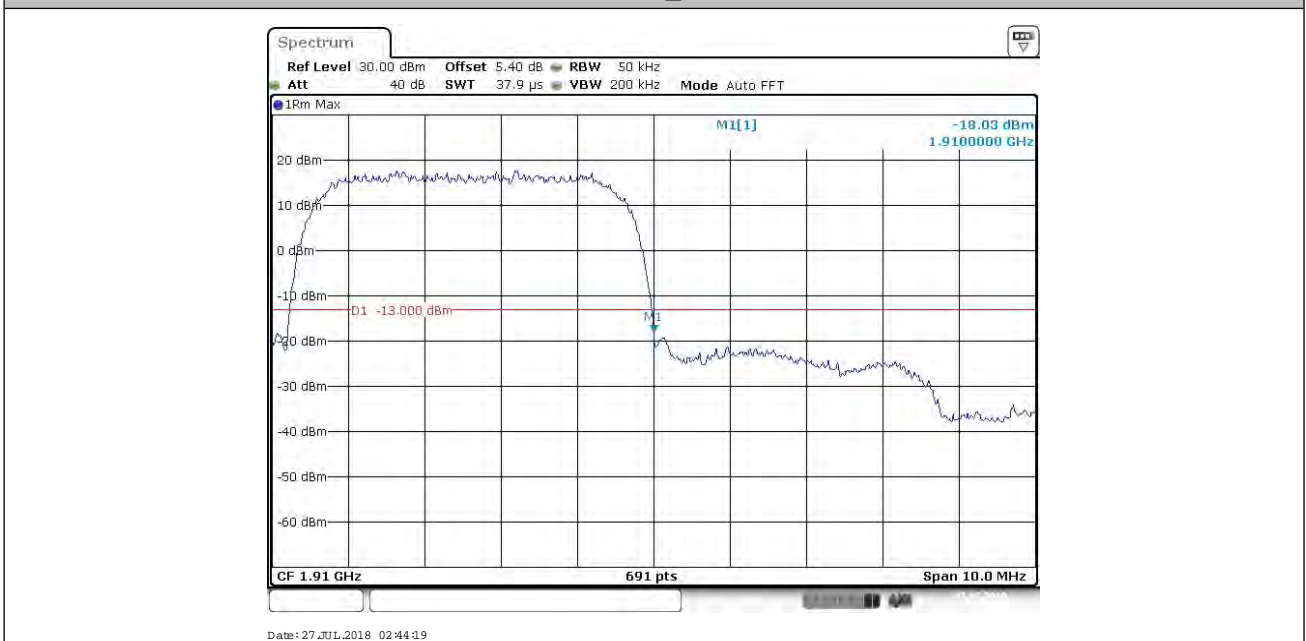
BAND V_4233

5. Band Edge Compliance

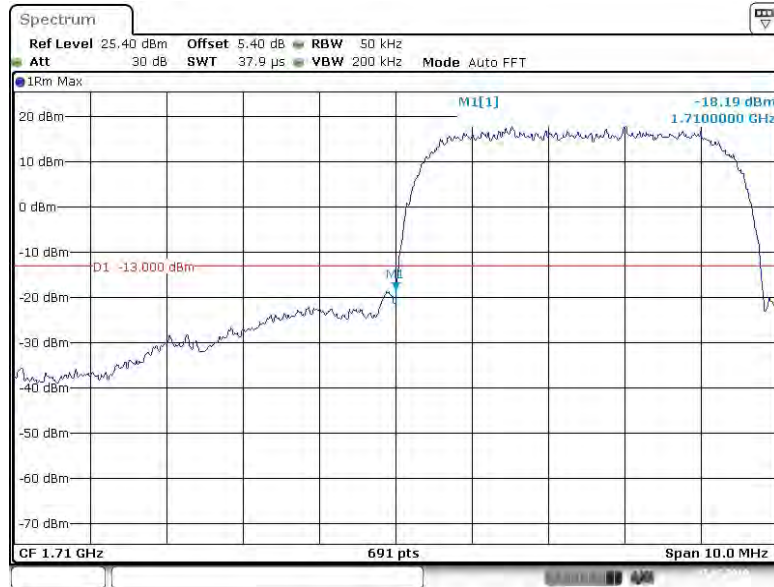
5.1. Test Plots



BAND II_9262

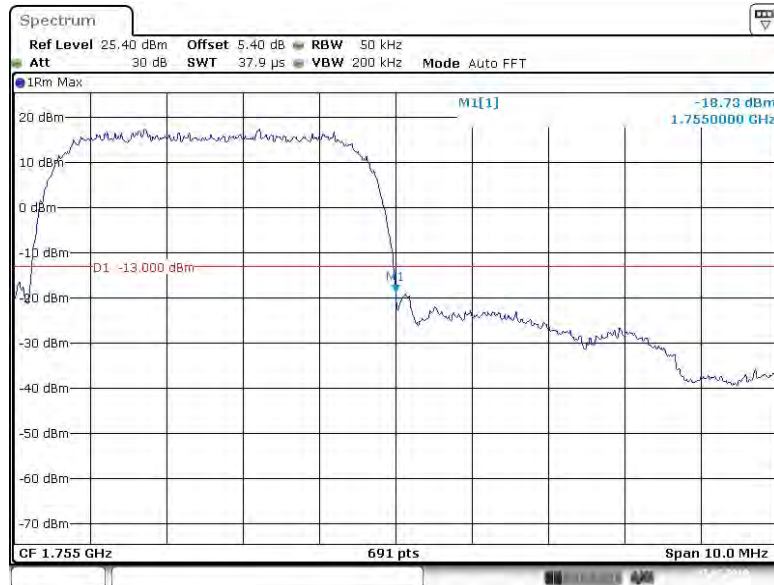


BAND II_9538



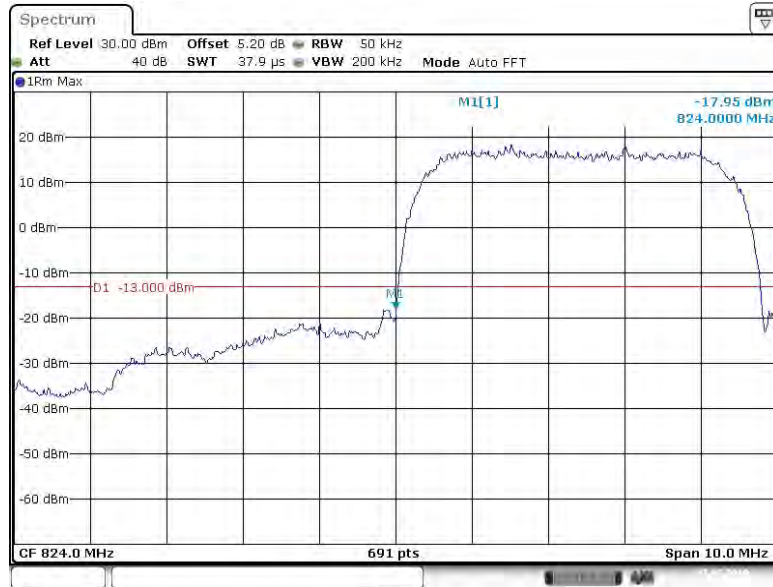
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BAND IV_1312



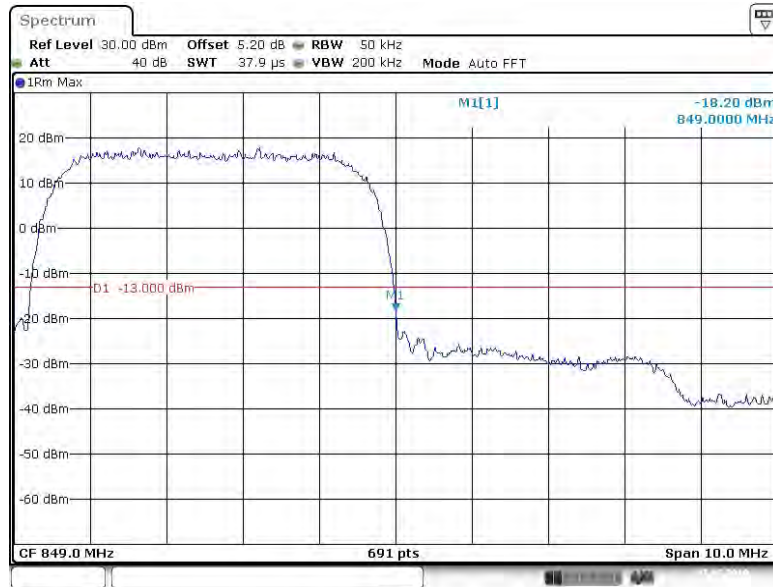
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BAND IV_1513



Date: 27 JUL 2018 02:58:59

BAND V_4132



Date: 27 JUL 2018 02:59:14

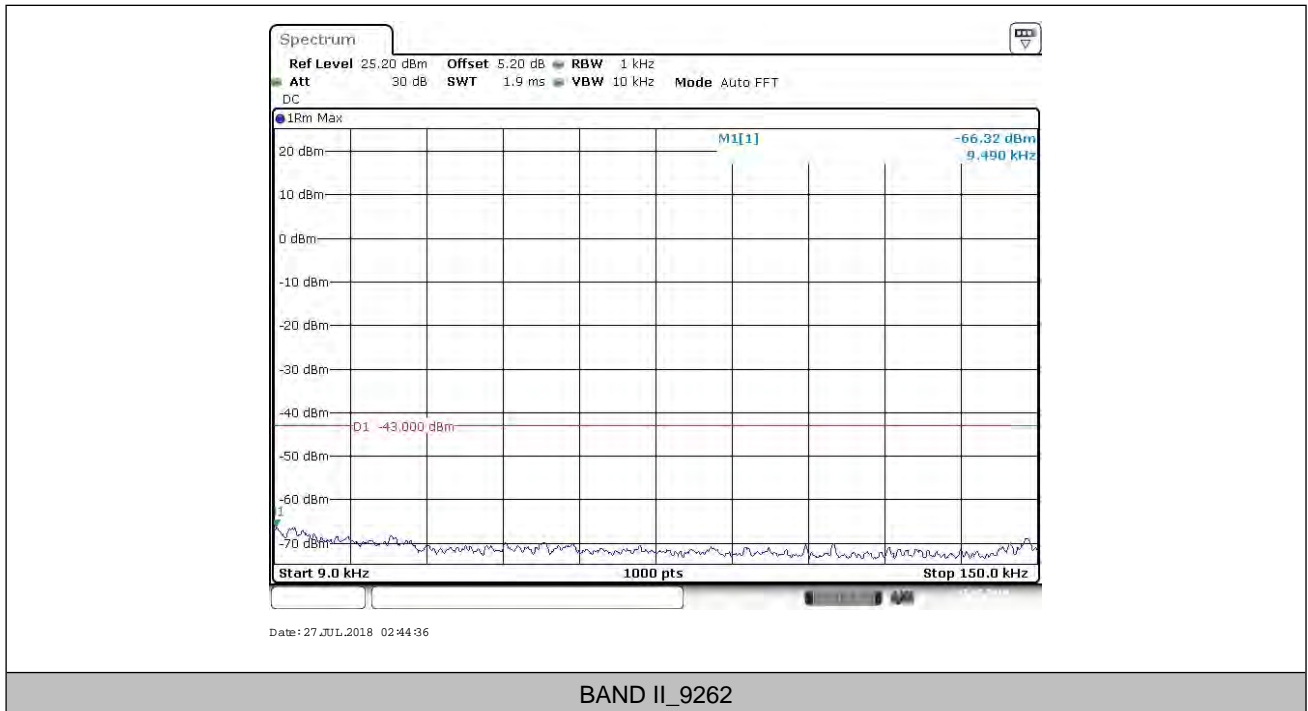
BAND V_4233

6. Spurious Emission at Antenna Terminal

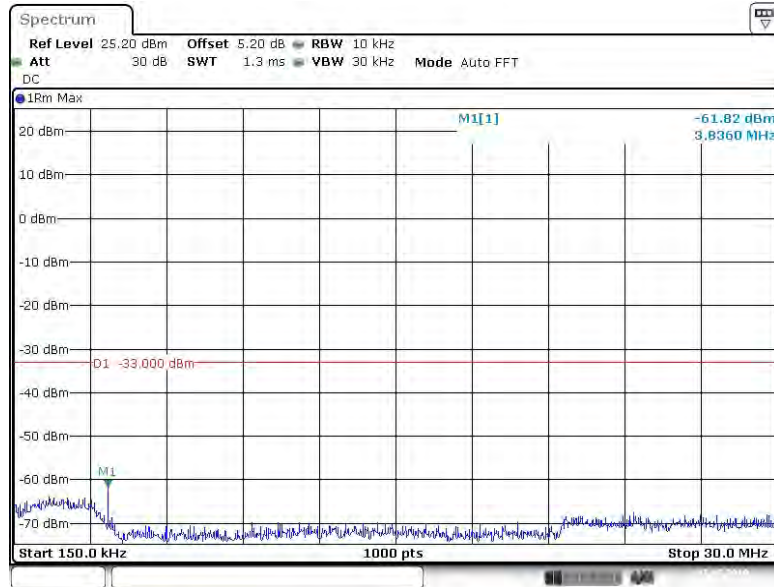
NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

NOTE2: only the worst case data displayed in this report.

7.1. Test Plots

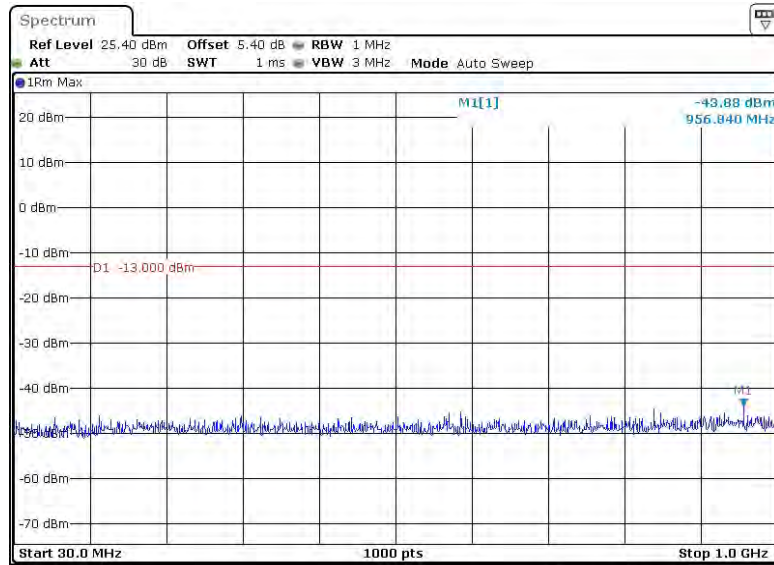


BAND II_9262



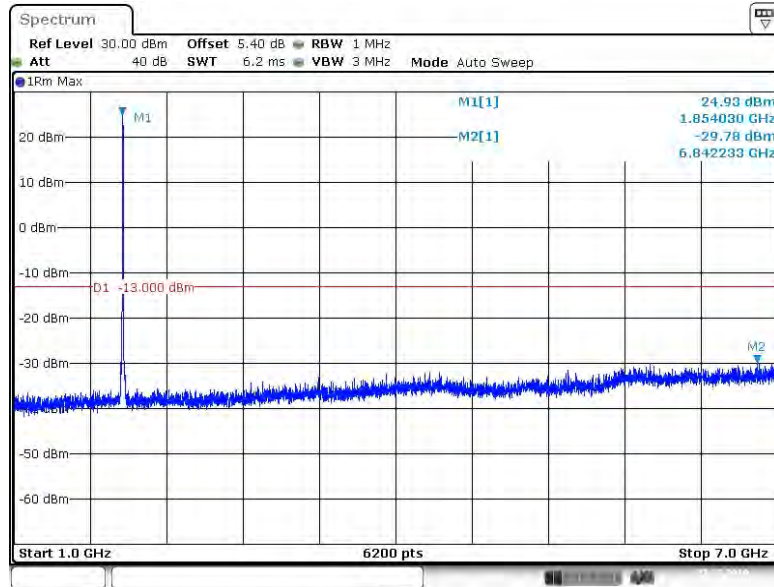
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BAND II_9262



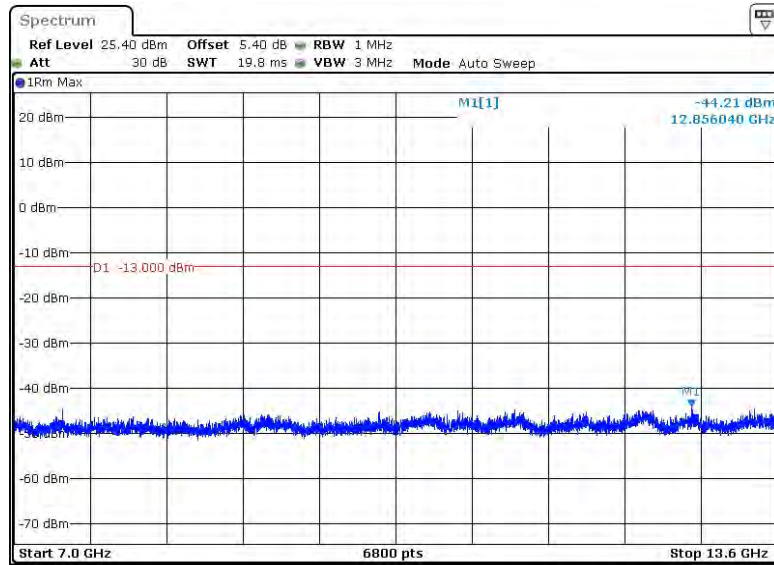
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BAND II_9262



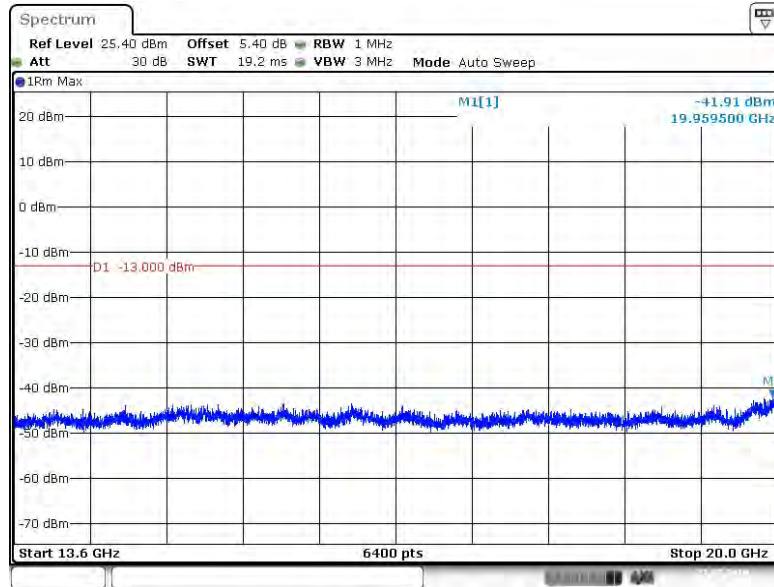
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BAND II_9262



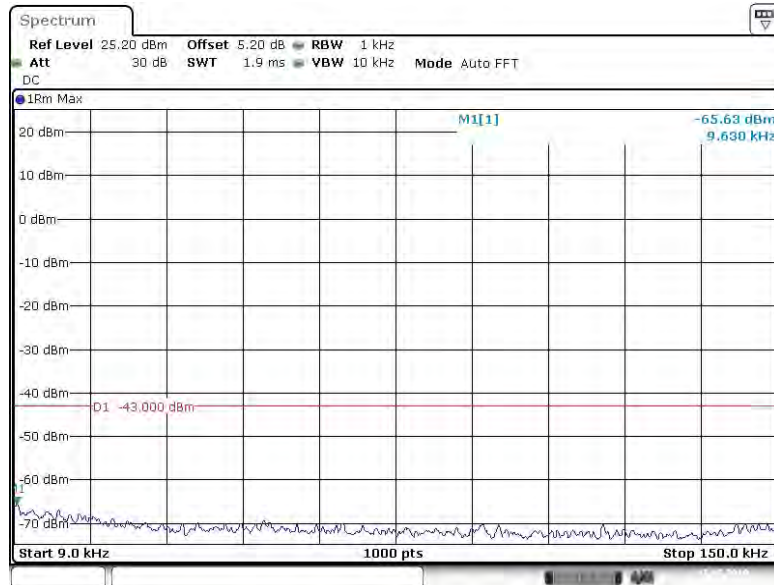
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BAND II_9262



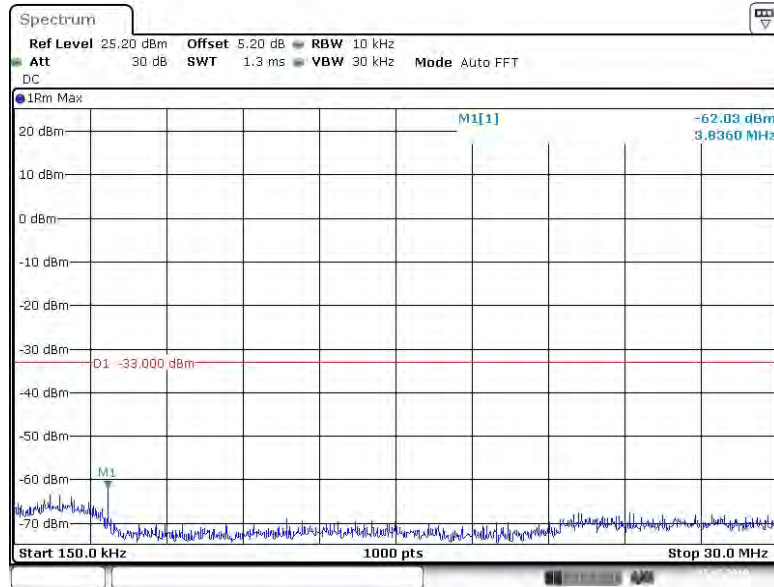
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BAND II_9262



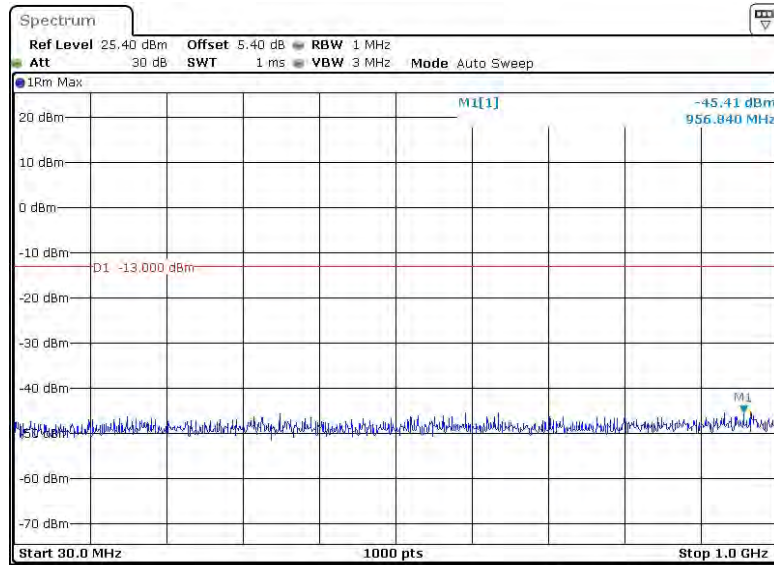
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BAND II_9400



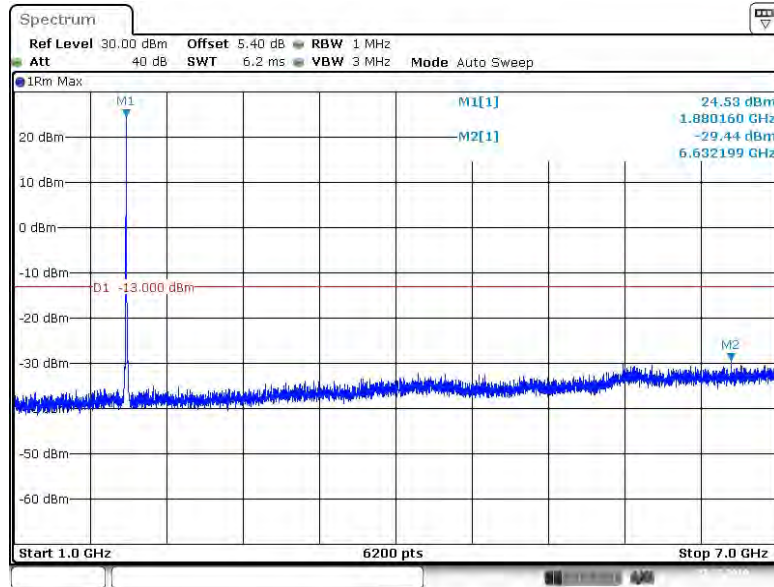
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BAND II_9400



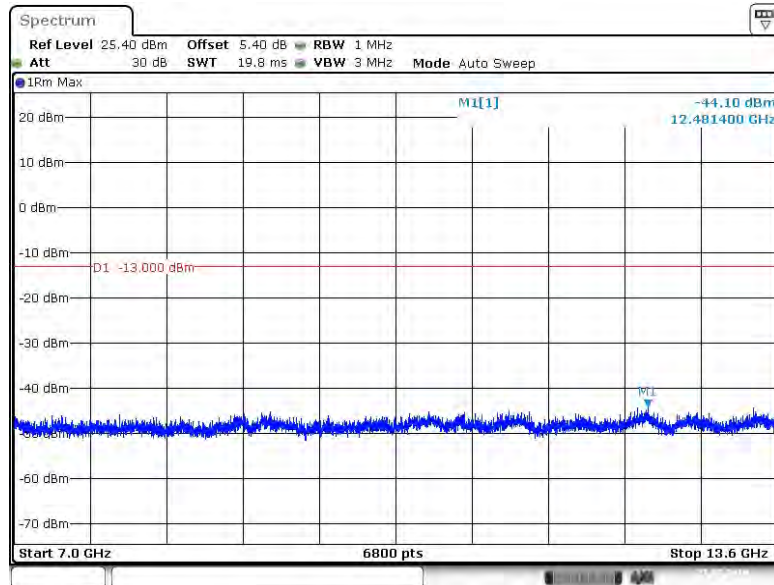
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BAND II_9400



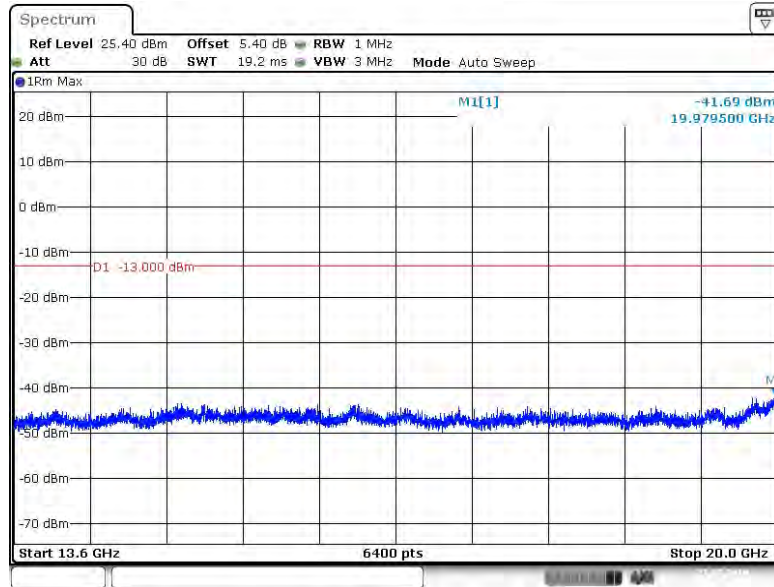
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BAND II_9400



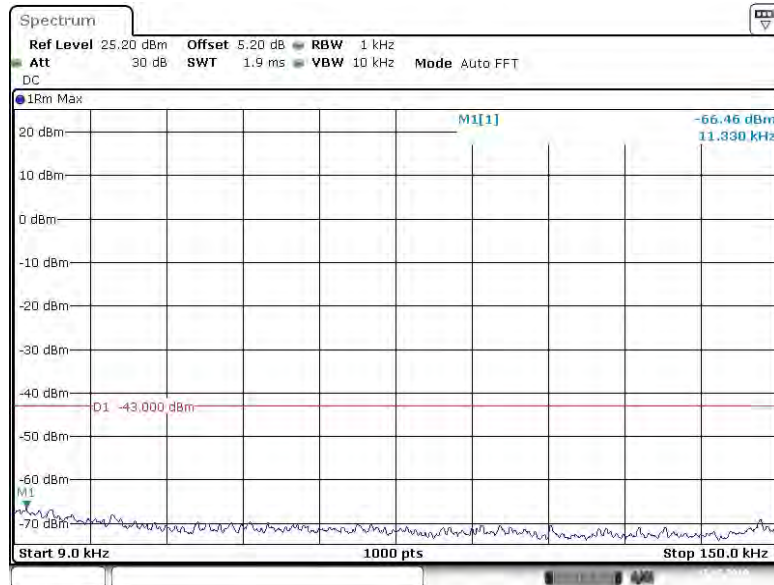
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BAND II_9400



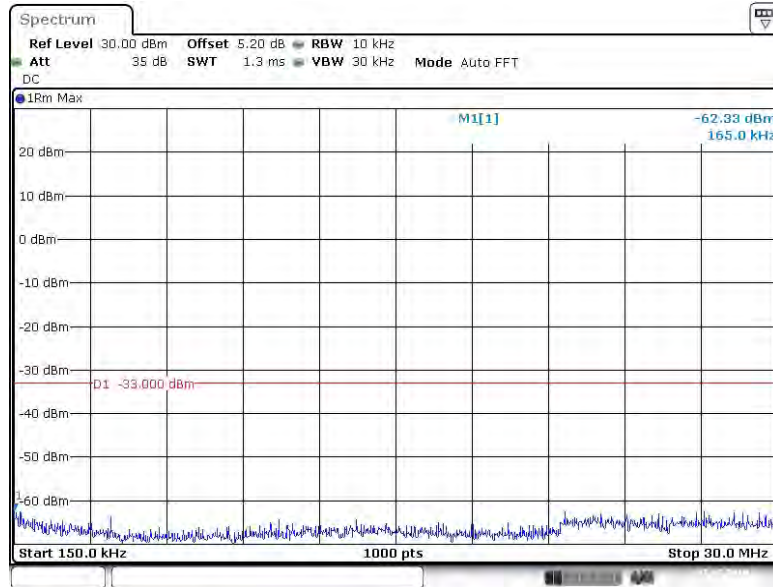
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BAND II_9400



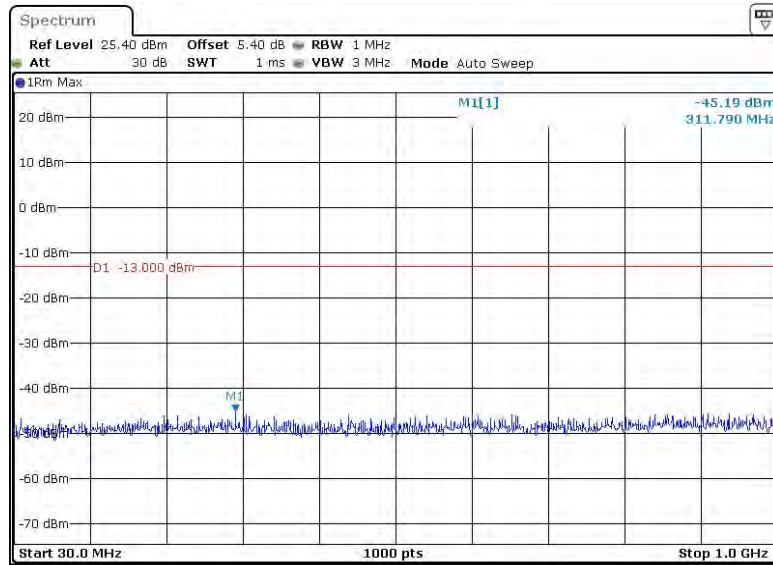
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BAND II_9538



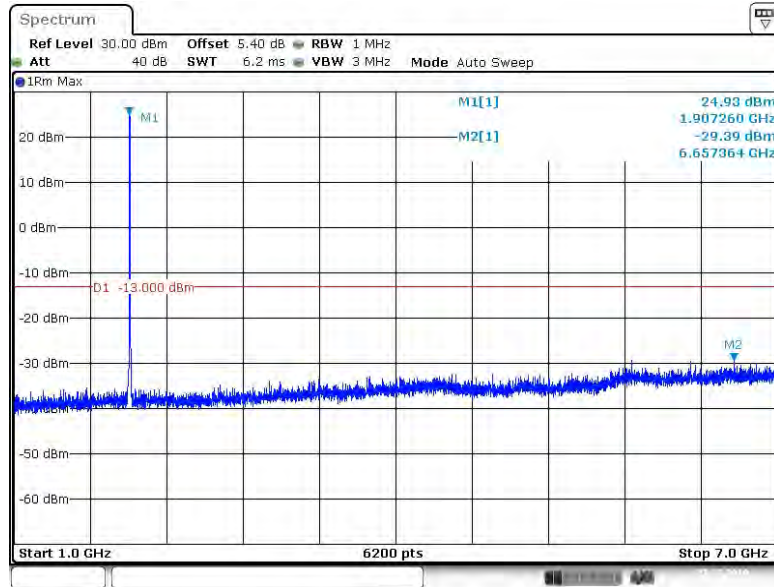
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BAND II_9538



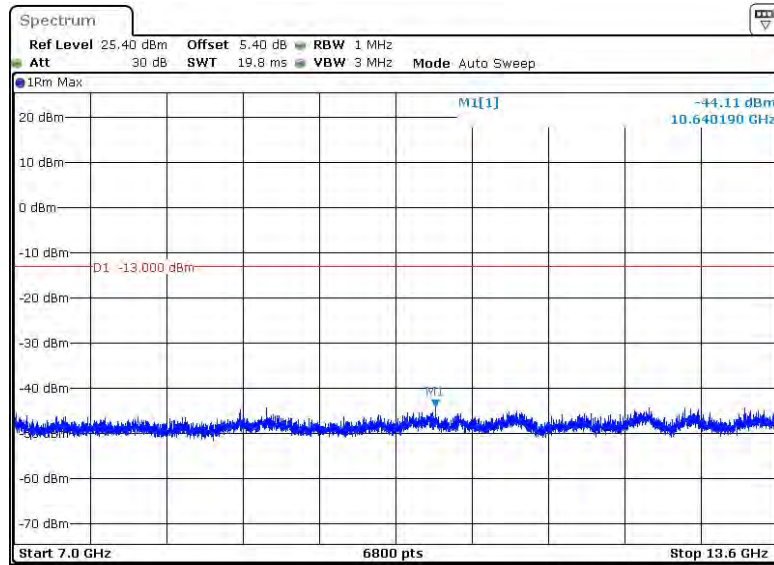
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BAND II_9538



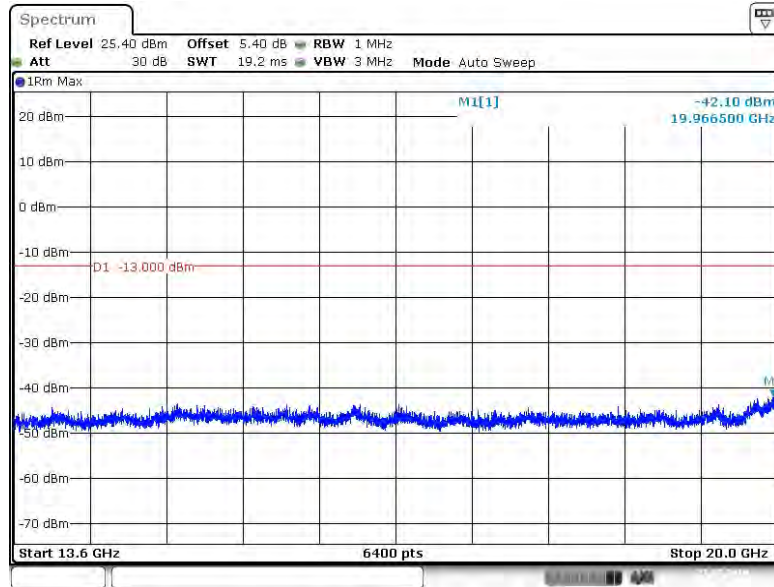
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BAND II_9538



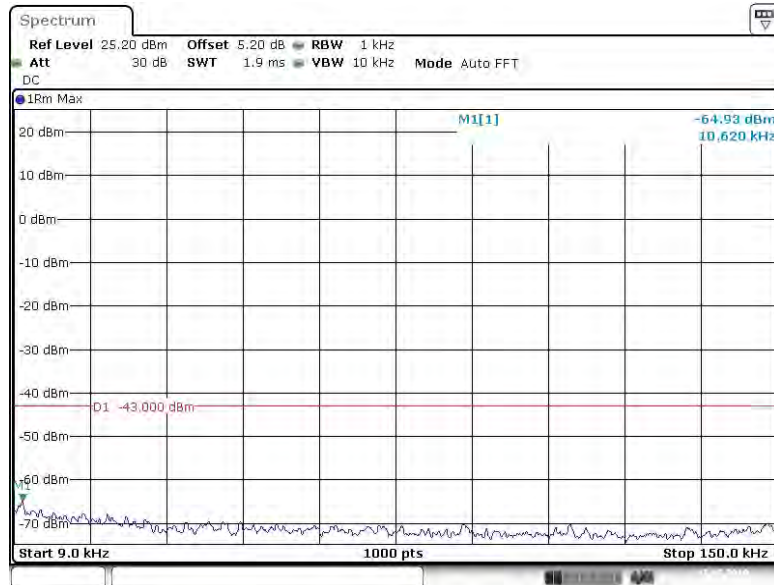
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BAND II_9538



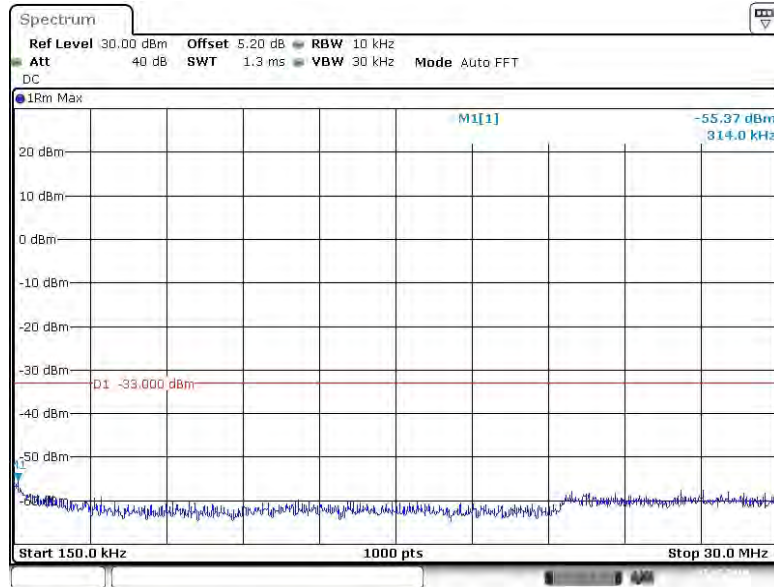
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BAND II_9538



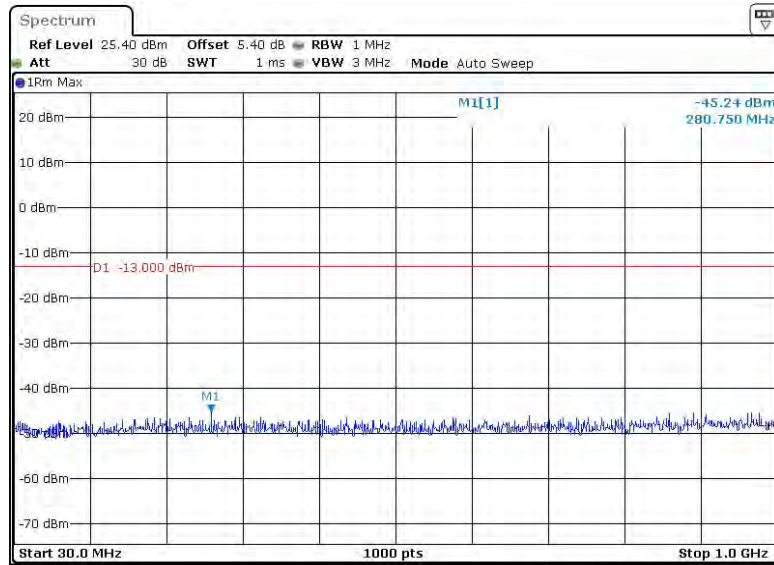
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BAND IV_1312



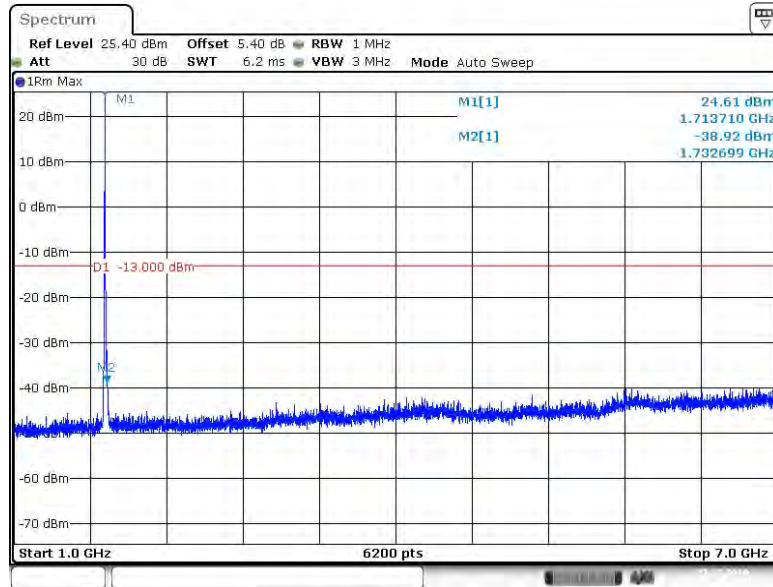
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BAND IV_1312



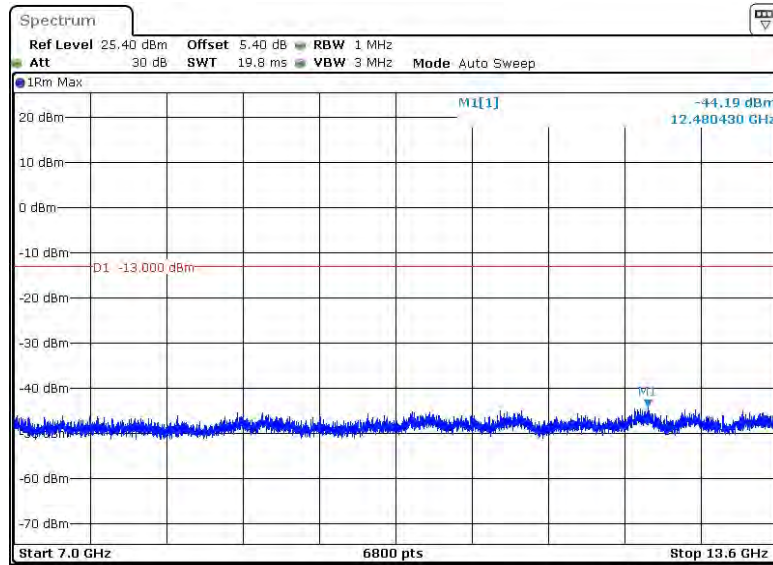
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BAND IV_1312



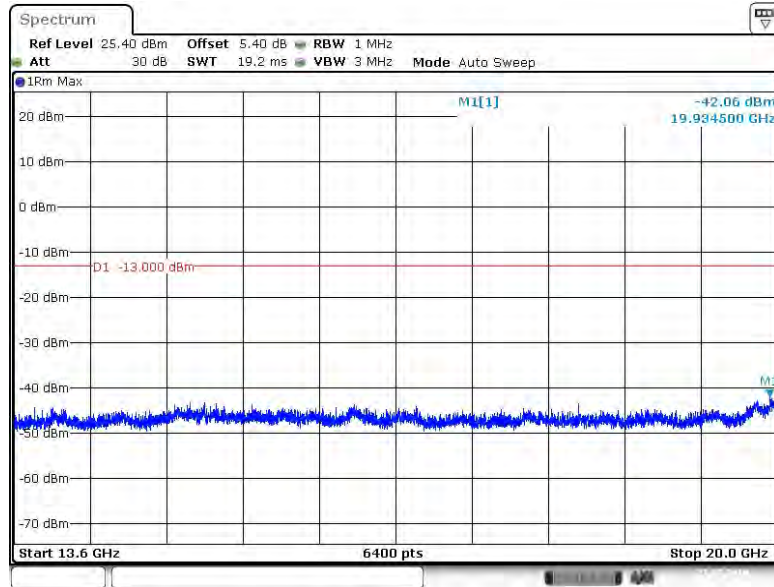
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BAND IV_1312

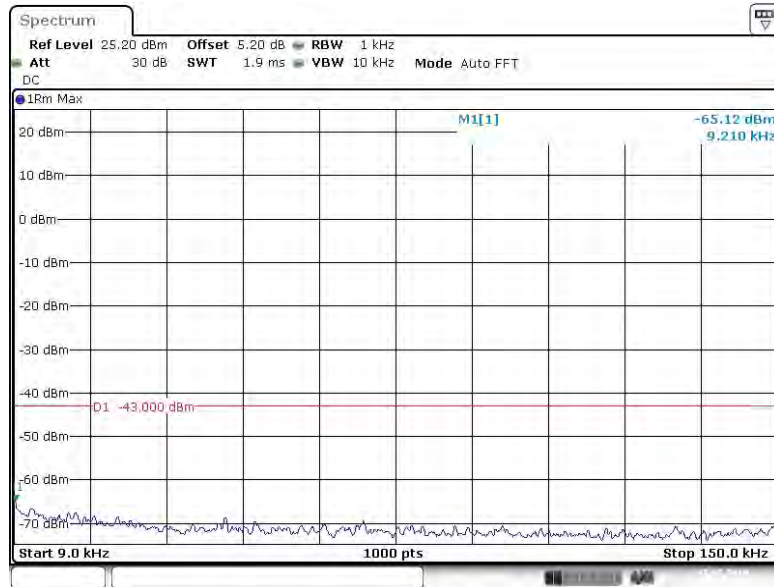


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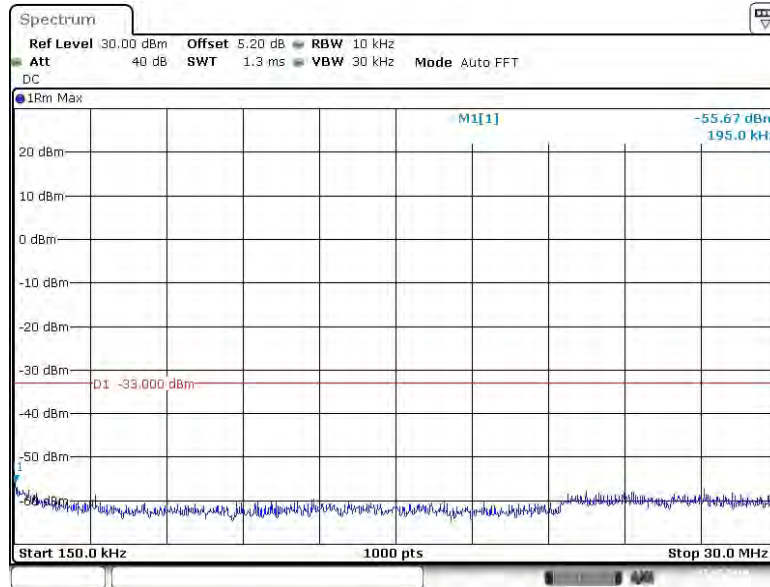
BAND IV_1312



BAND IV_1312

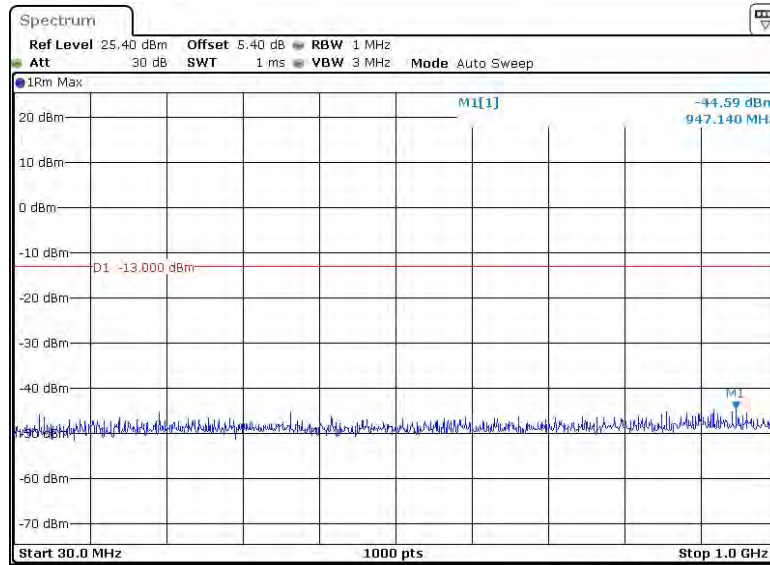


BAND IV_1413



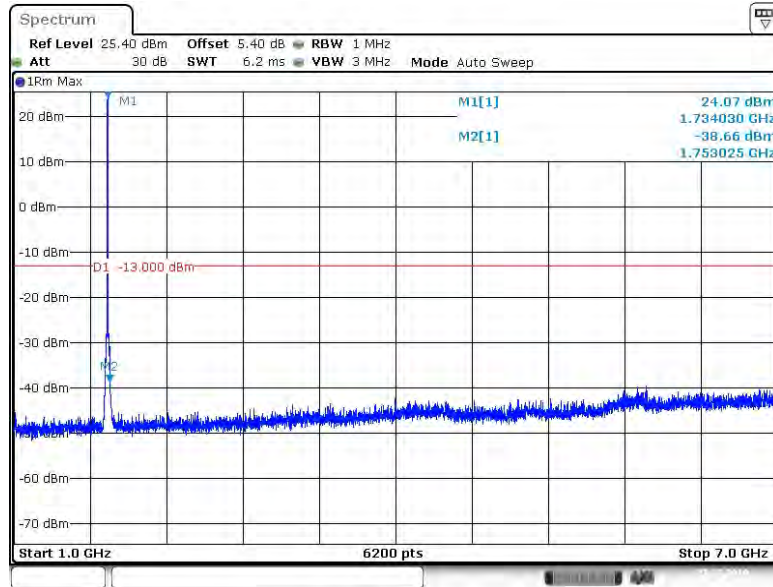
Date: 27 JUL 2018 02:53:46

BAND IV_1413



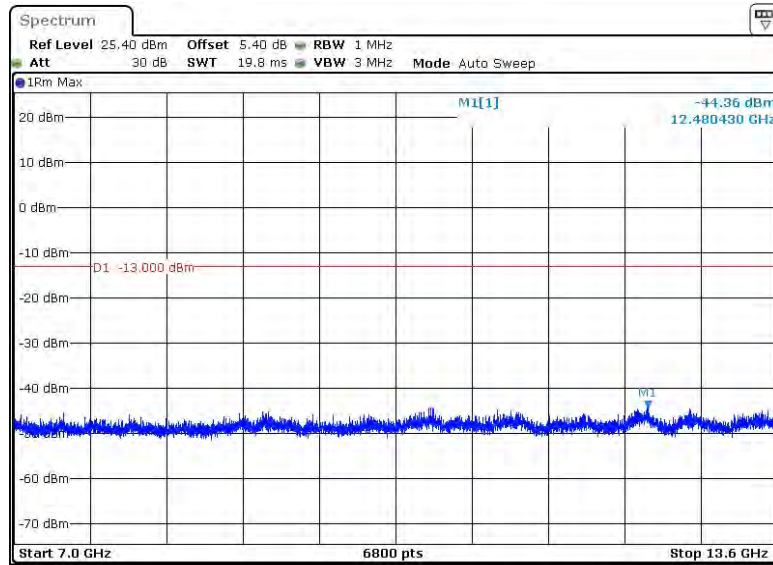
Date: 27 JUL 2018 02:53:54

BAND IV_1413



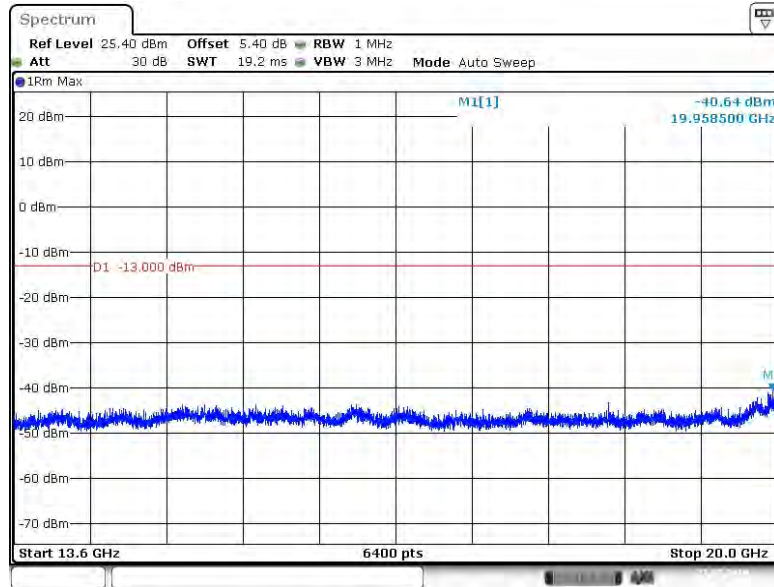
Date: 27 JUL 2018 02:54:03

BAND IV_1413



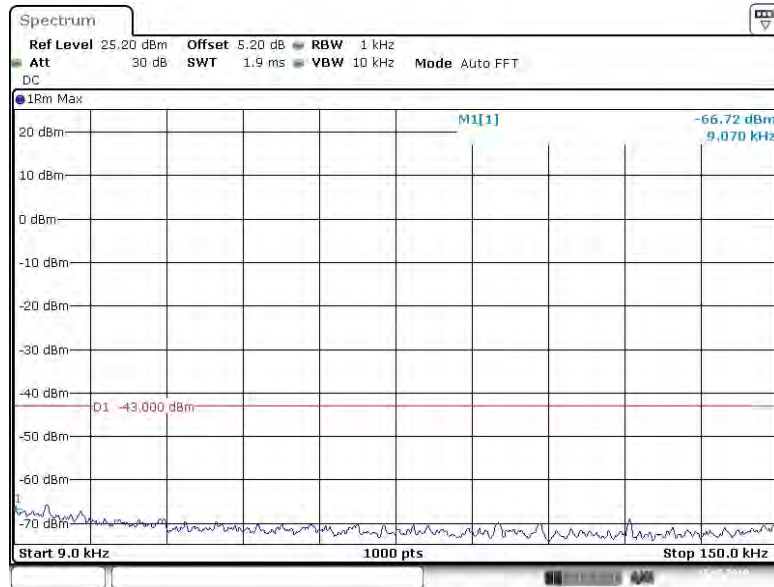
Date: 27 JUL 2018 02:54:11

BAND IV_1413



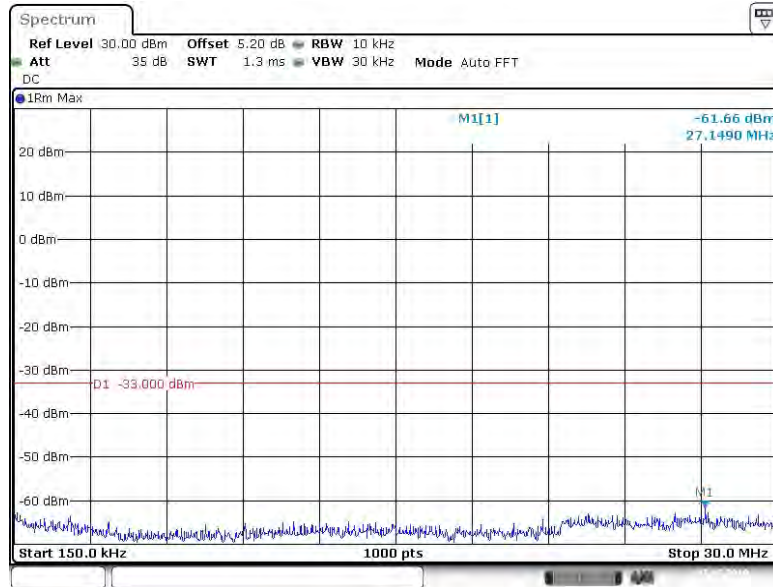
Date: 27 JUL 2018 02:54:19

BAND IV_1413



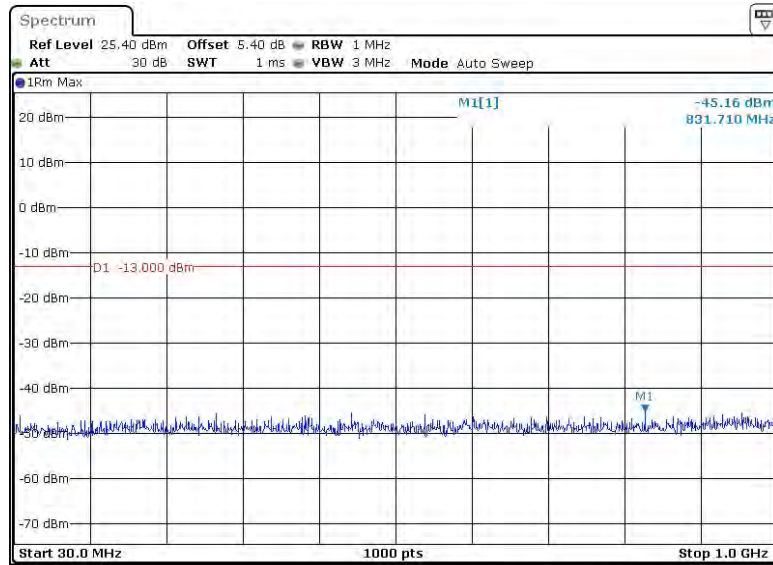
Date: 27 JUL 2018 02:54:30

BAND IV_1513



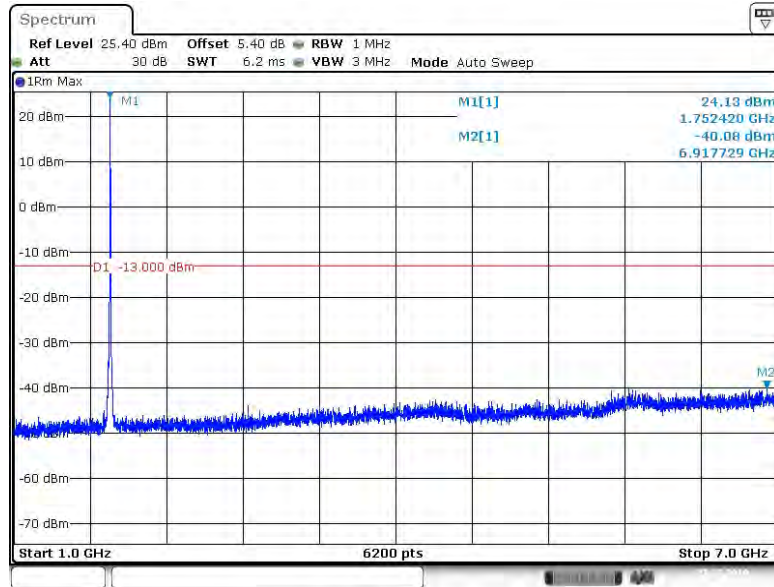
Date: 27 JUL 2018 02:54:45

BAND IV_1513



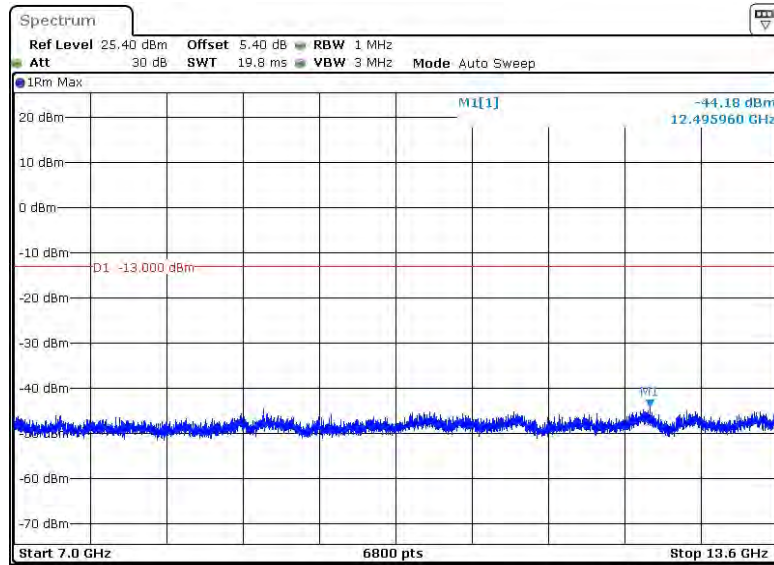
Date: 27 JUL 2018 02:54:53

BAND IV_1513



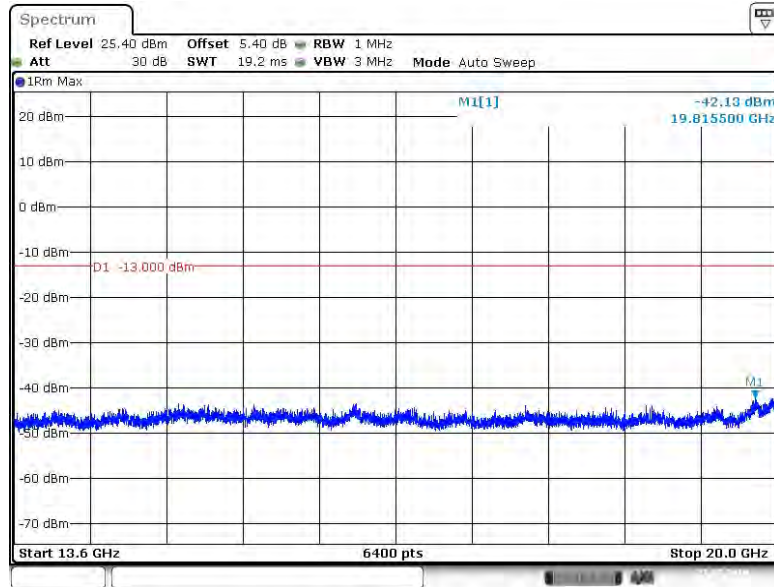
Date: 27 JUL 2018 02:55:02

BAND IV_1513



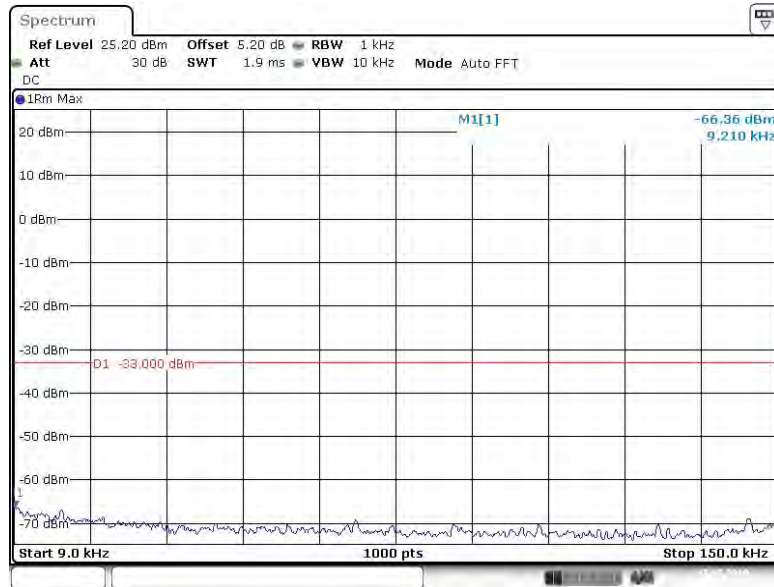
Date: 27 JUL 2018 02:55:10

BAND IV_1513



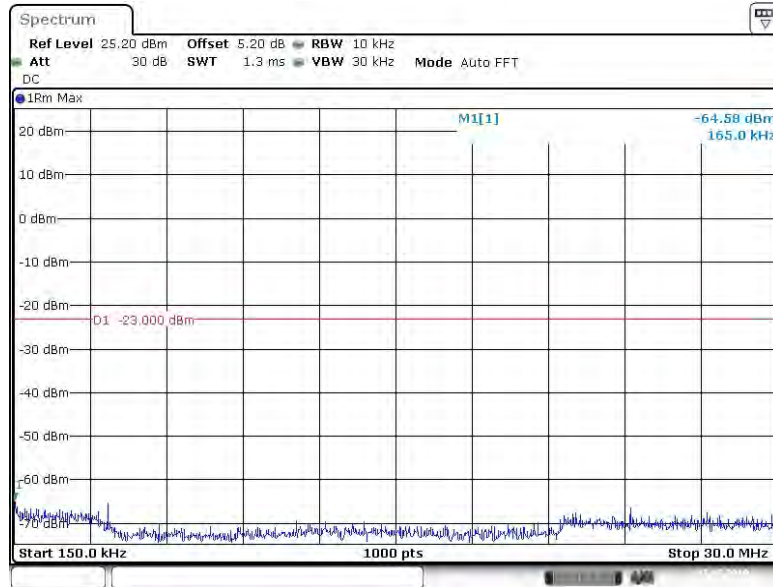
Date: 27 JUL 2018 02:55:18

BAND IV_1513



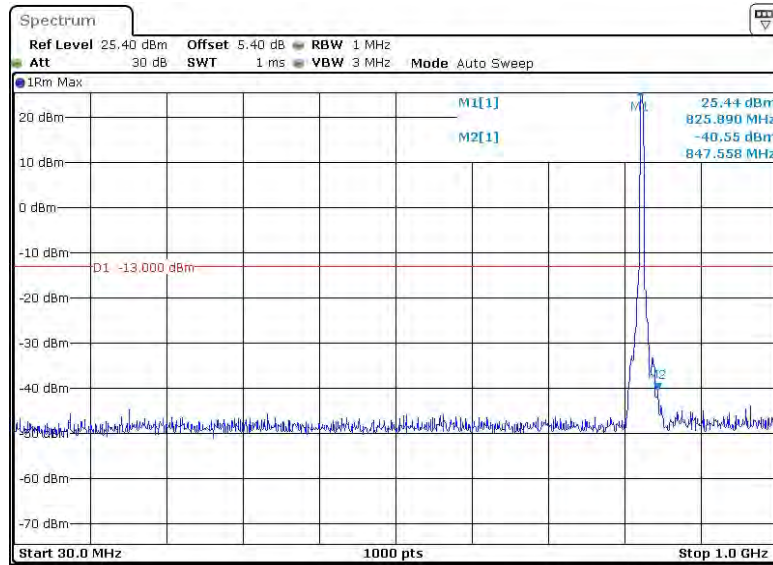
Date: 27 JUL 2018 02:59:30

BAND V_4132



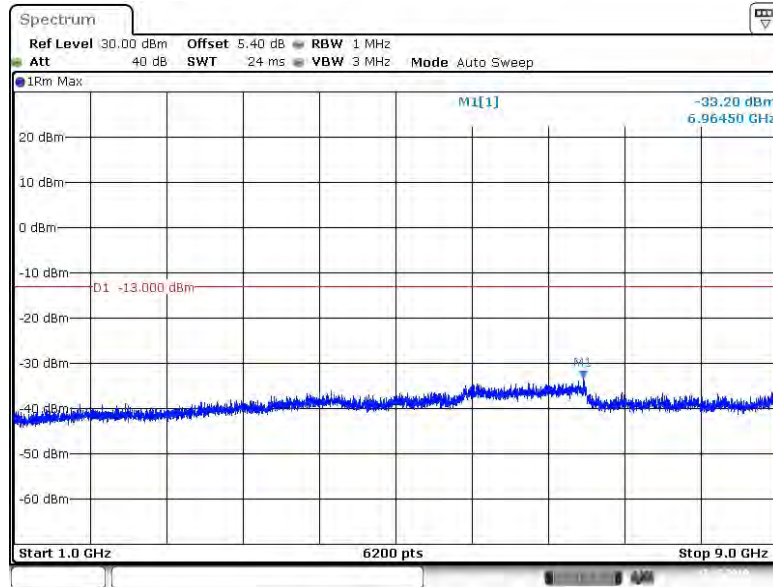
Date: 27 JUL 2018 02:59:38

BAND V_4132



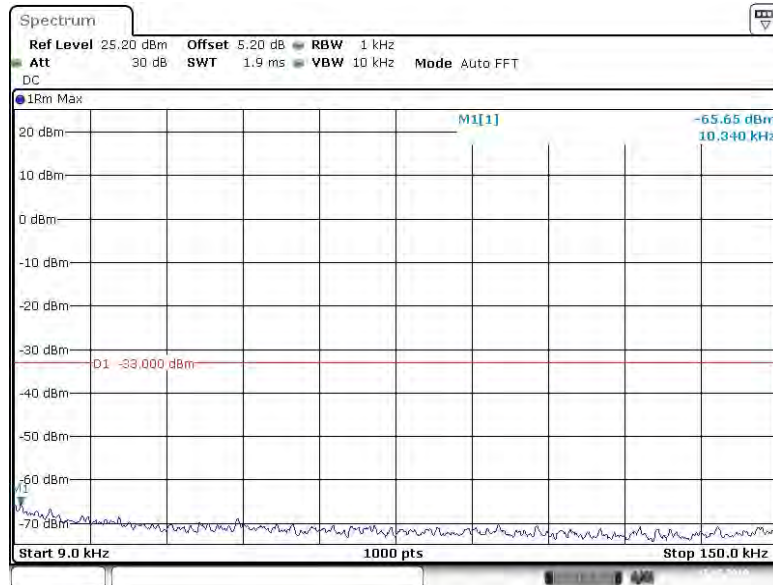
Date: 27 JUL 2018 02:59:48

BAND V_4132



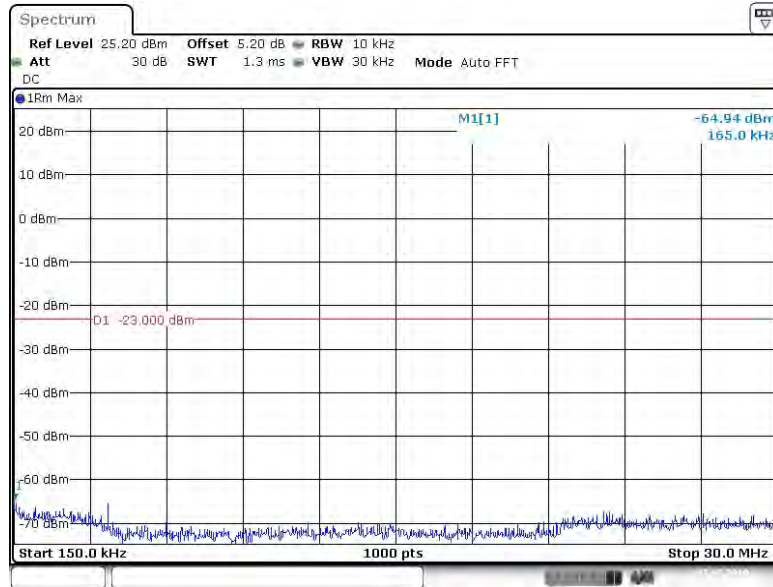
Date: 27 JUL 2018 02:59:56

BAND V_4132



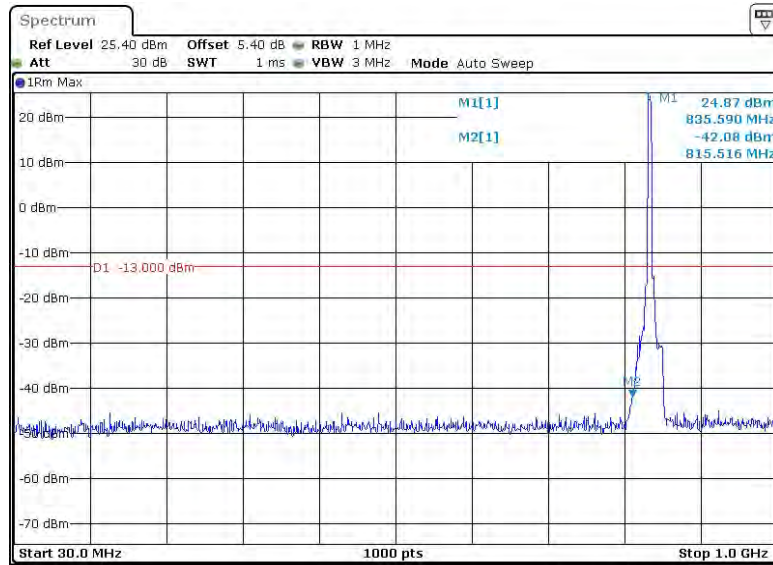
Date: 27 JUL 2018 03:00:06

BAND V_4182



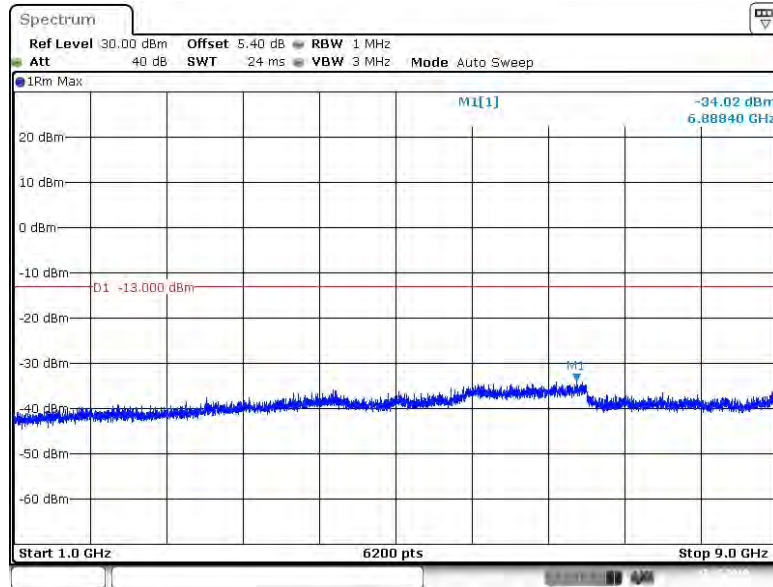
Date: 27_JUL.2018 03:00:14

BAND V_4182



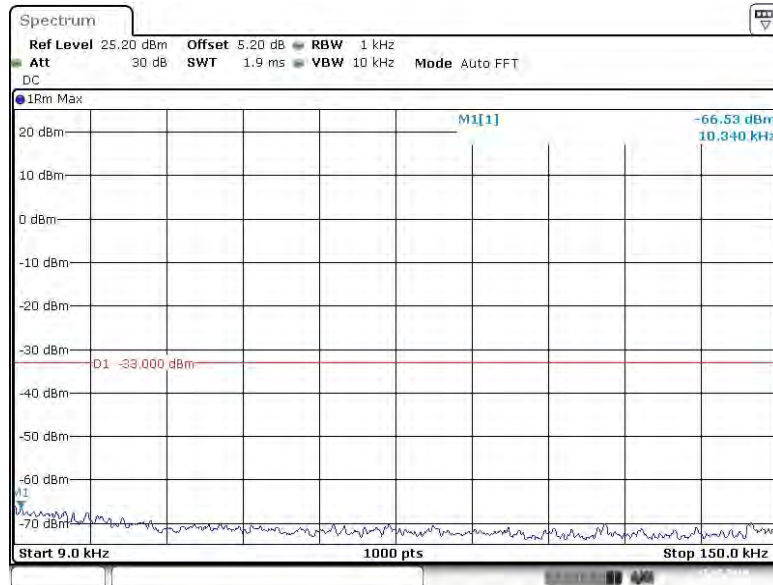
Date: 27_JUL.2018 03:00:23

BAND V_4182



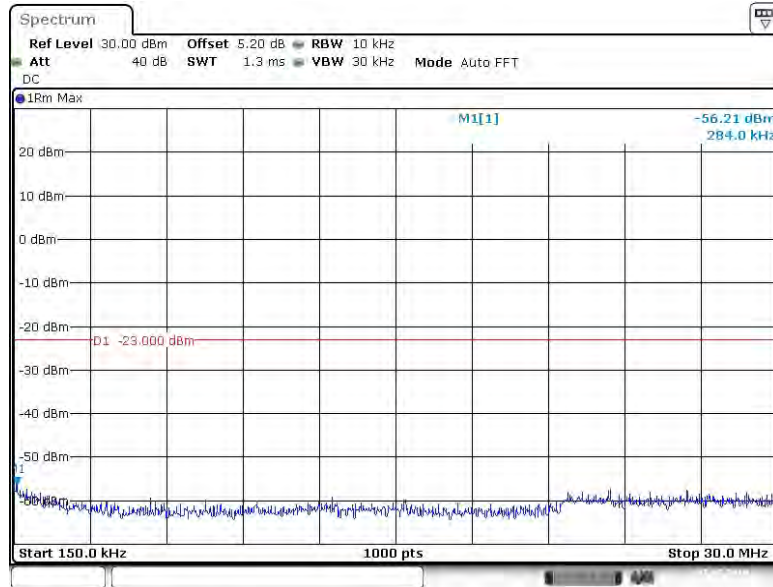
Date: 27 JUL 2018 03:00:31

BAND V_4182



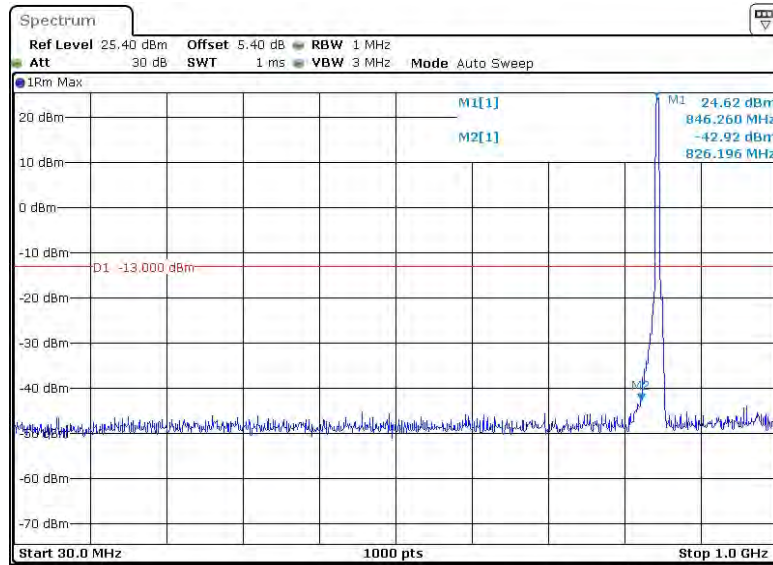
Date: 27 JUL 2018 03:00:42

BAND V_4233



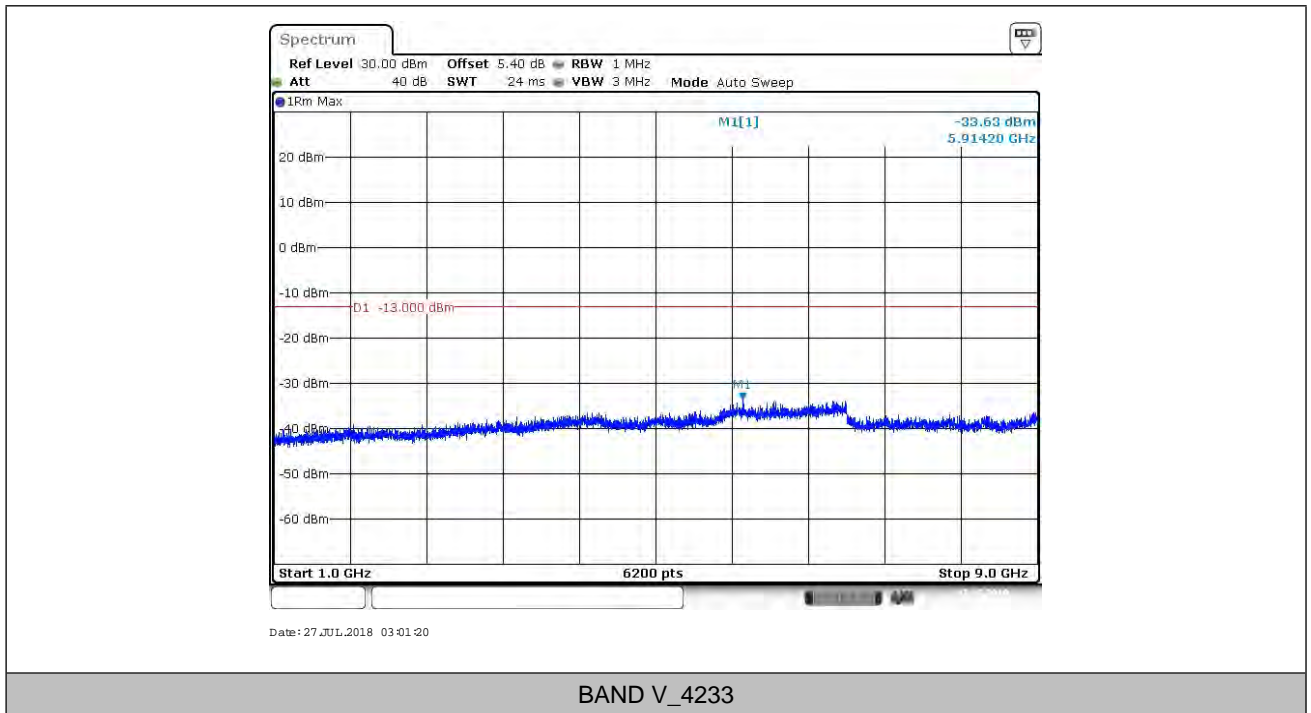
Date: 27 JUL 2018 03:01:03

BAND V_4233



Date: 27 JUL 2018 03:01:12

BAND V_4233



7. Field Strength of Spurious Radiation

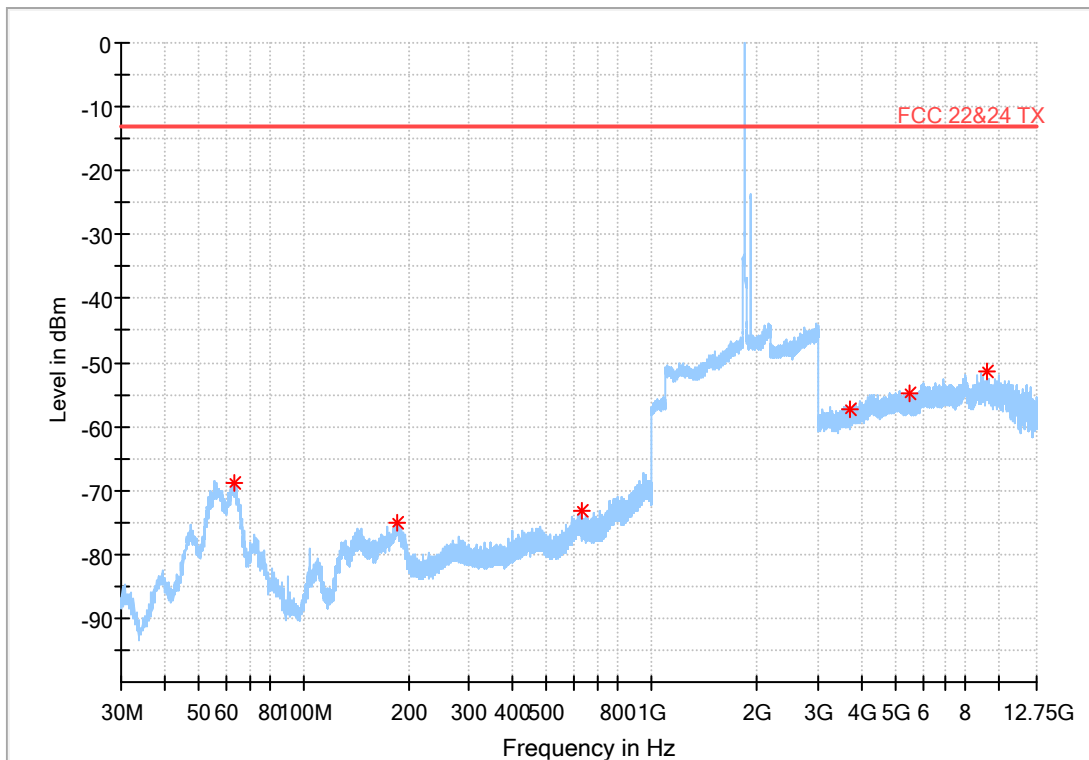
Part I - Test Plots

8.1. For WCDMA-Main Antenna

8.1.1. Test Band = WCDMA BAND II

8.1.1.1. Test Channel = LCH_H

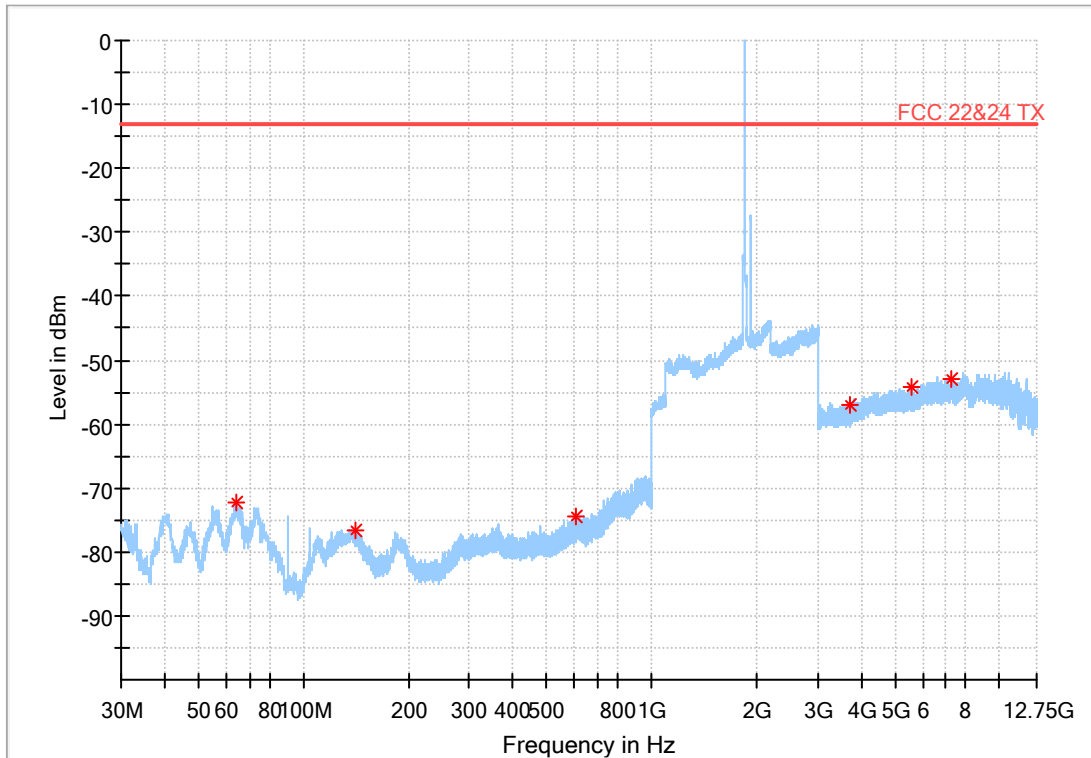
Full Spectrum





8.1.1.2. Test Channel = LCH_V

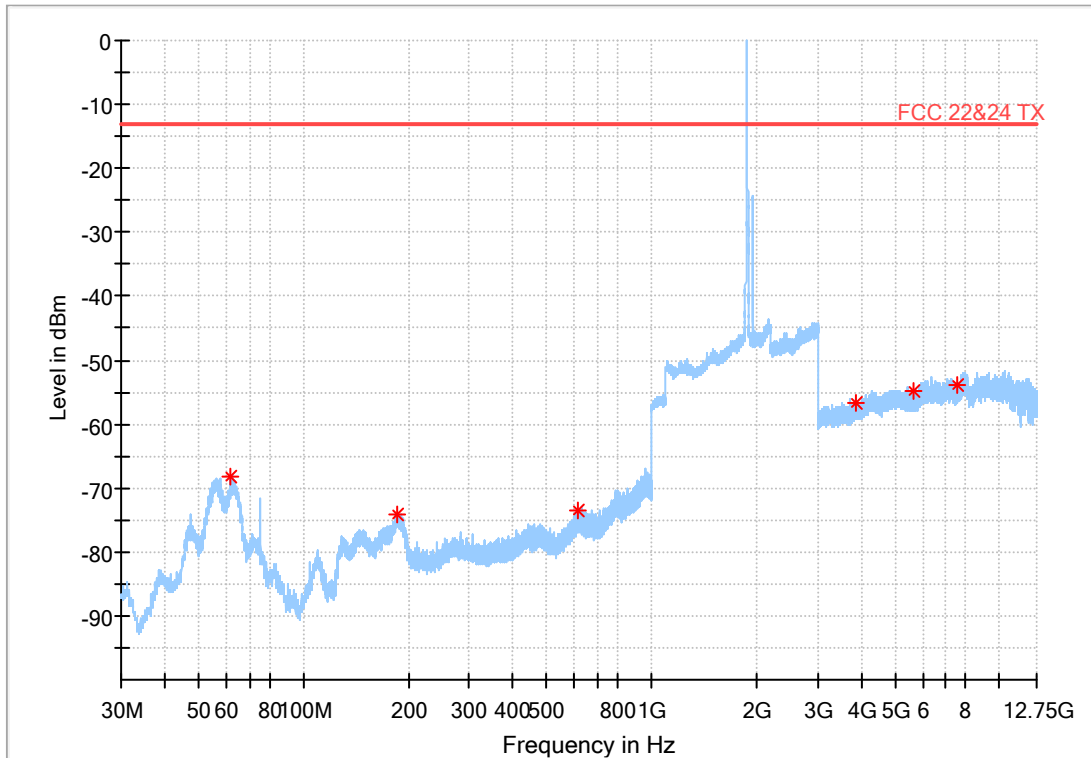
Full Spectrum





8.1.1.3. Test Channel = MCH_H

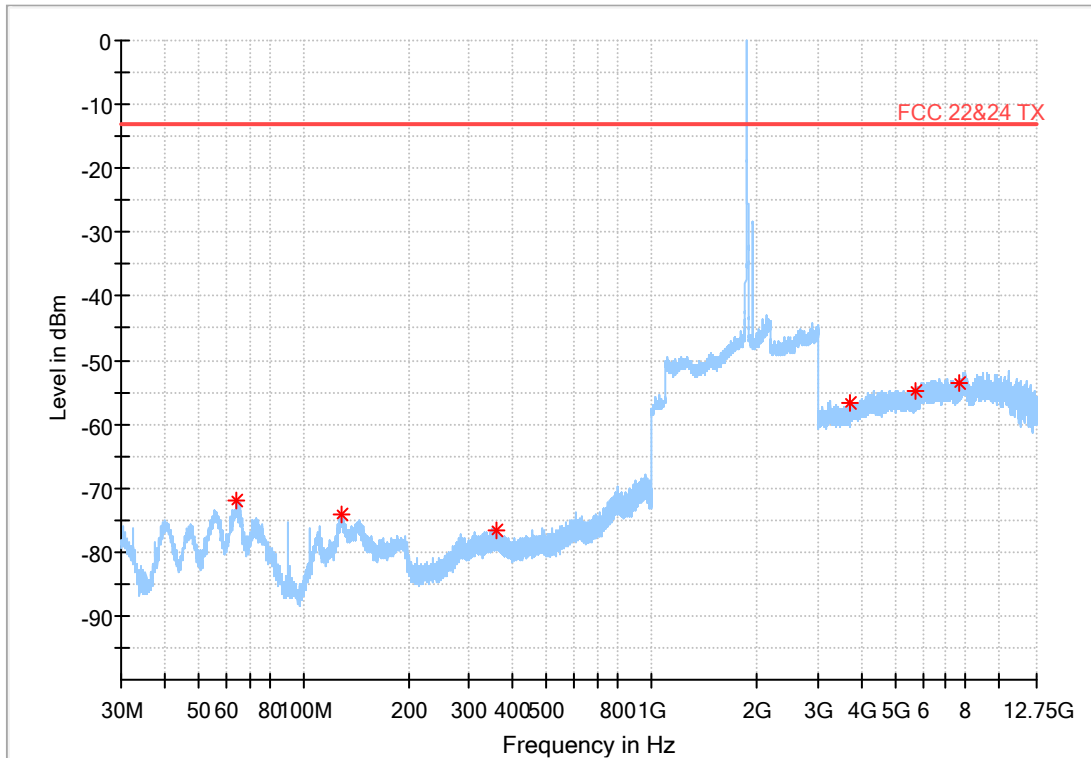
Full Spectrum





8.1.1.4. Test Channel = MCH_V

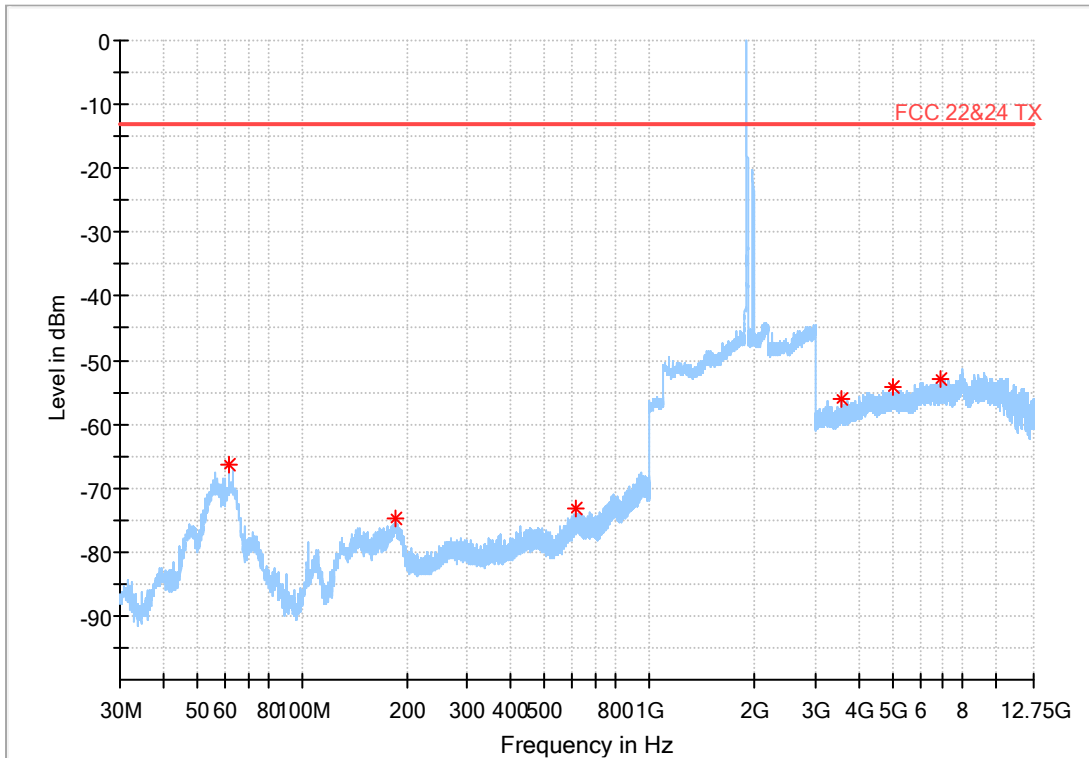
Full Spectrum





8.1.1.5. Test Channel = HCH_H

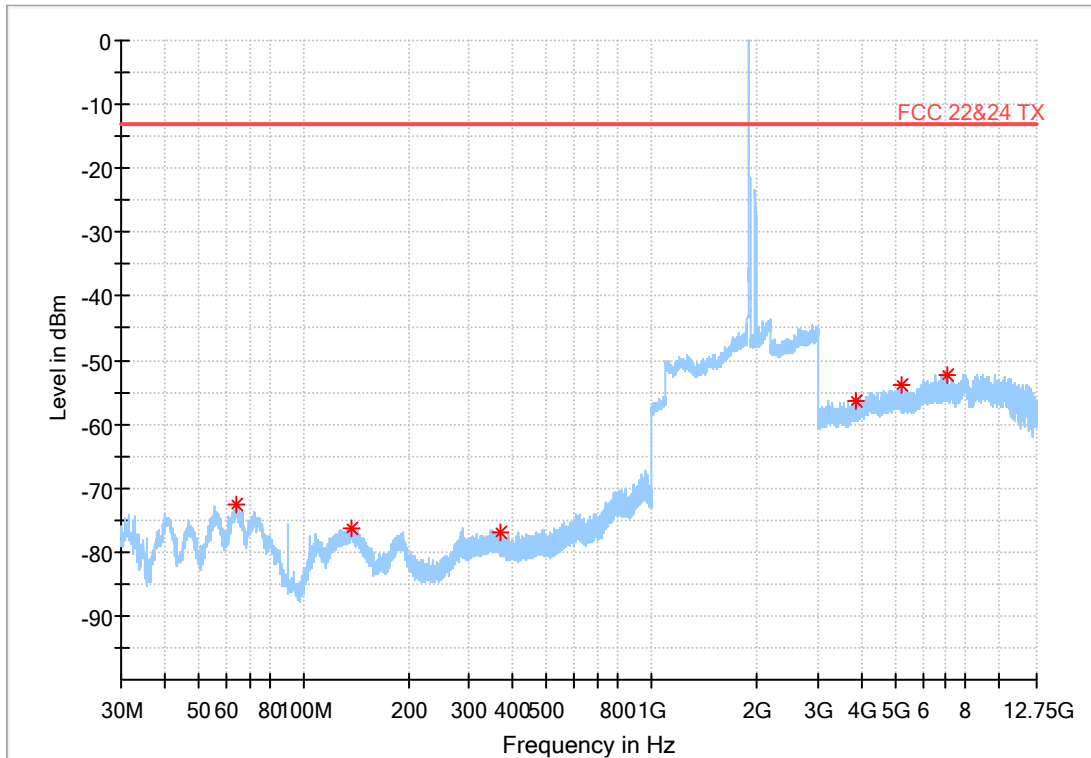
Full Spectrum





8.1.1.6. Test Channel = HCH_V

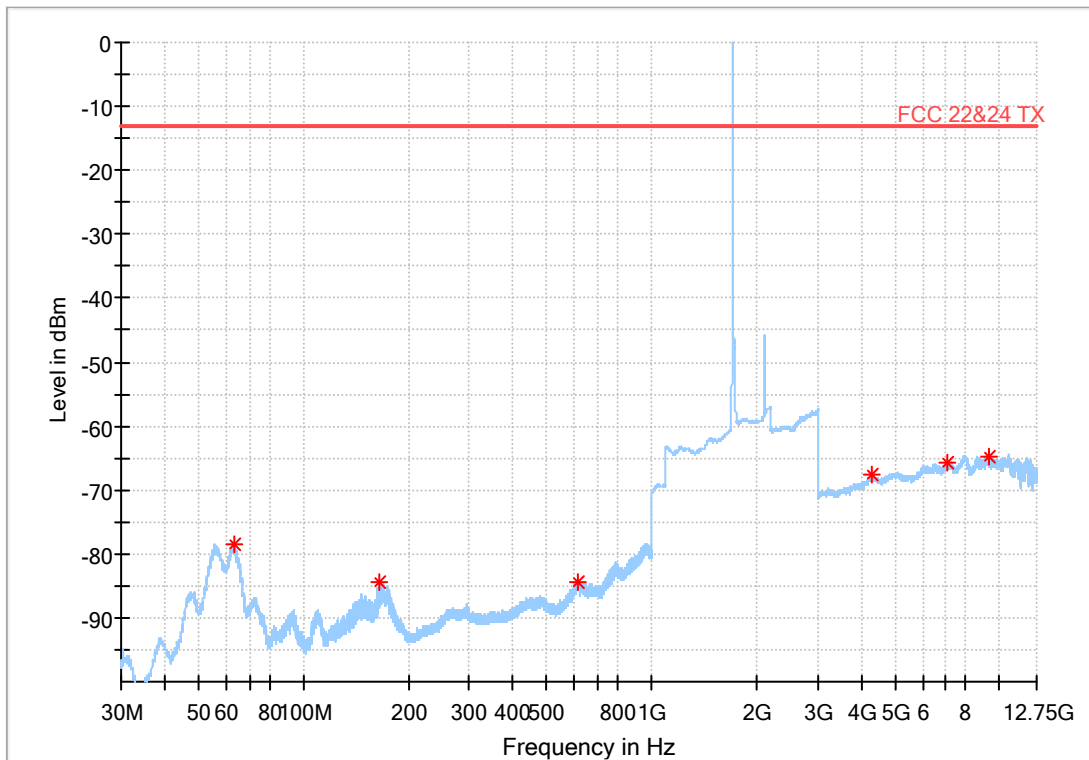
Full Spectrum



8.1.2. Test Band = WCDMA BAND IV

8.1.2.1. Test Channel = LCH_H

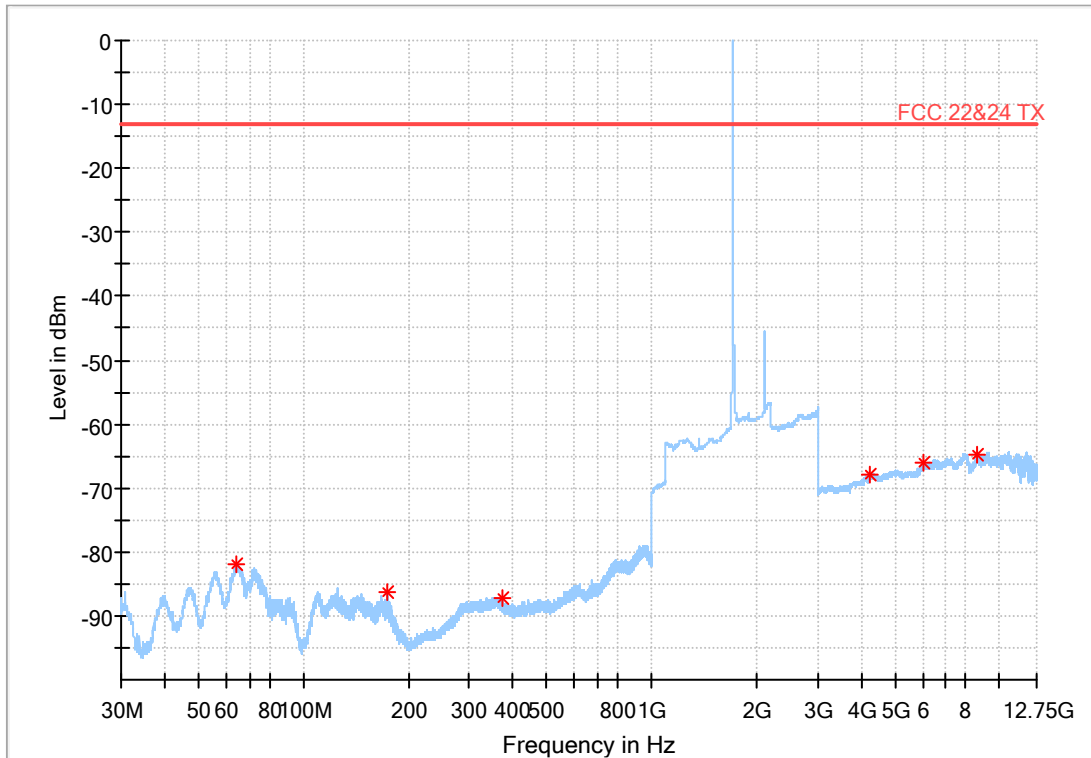
Full Spectrum





8.1.2.2. Test Channel = LCH_V

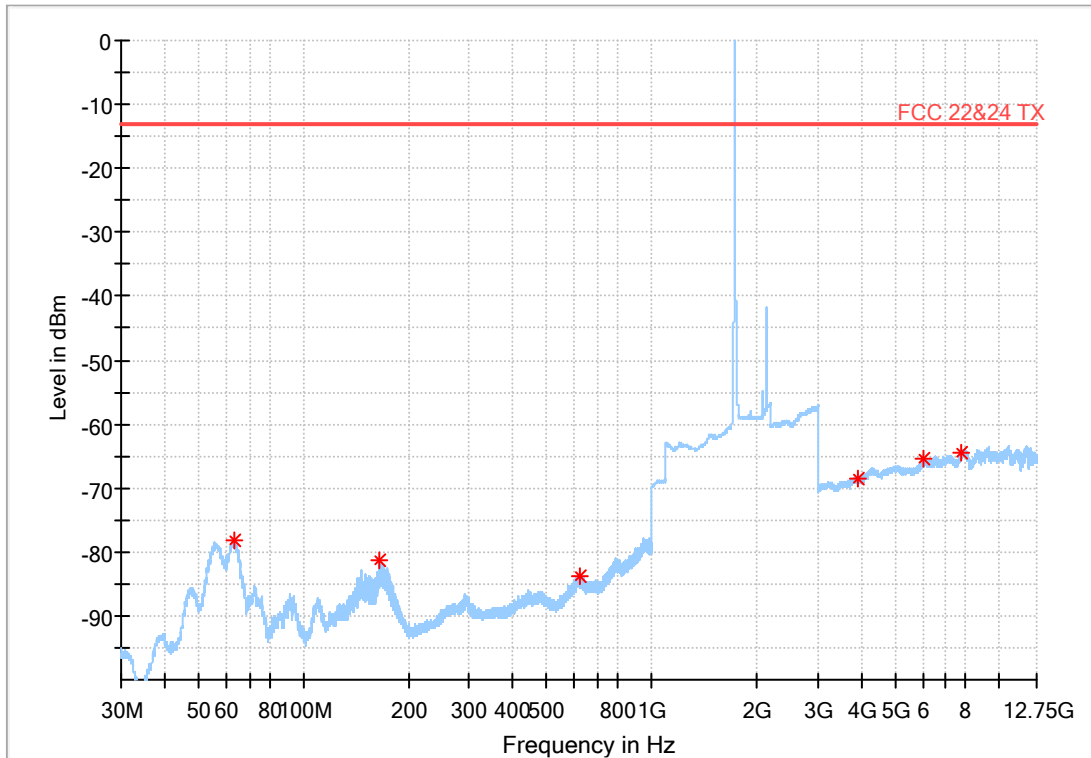
Full Spectrum





8.1.2.3. Test Channel = MCH_H

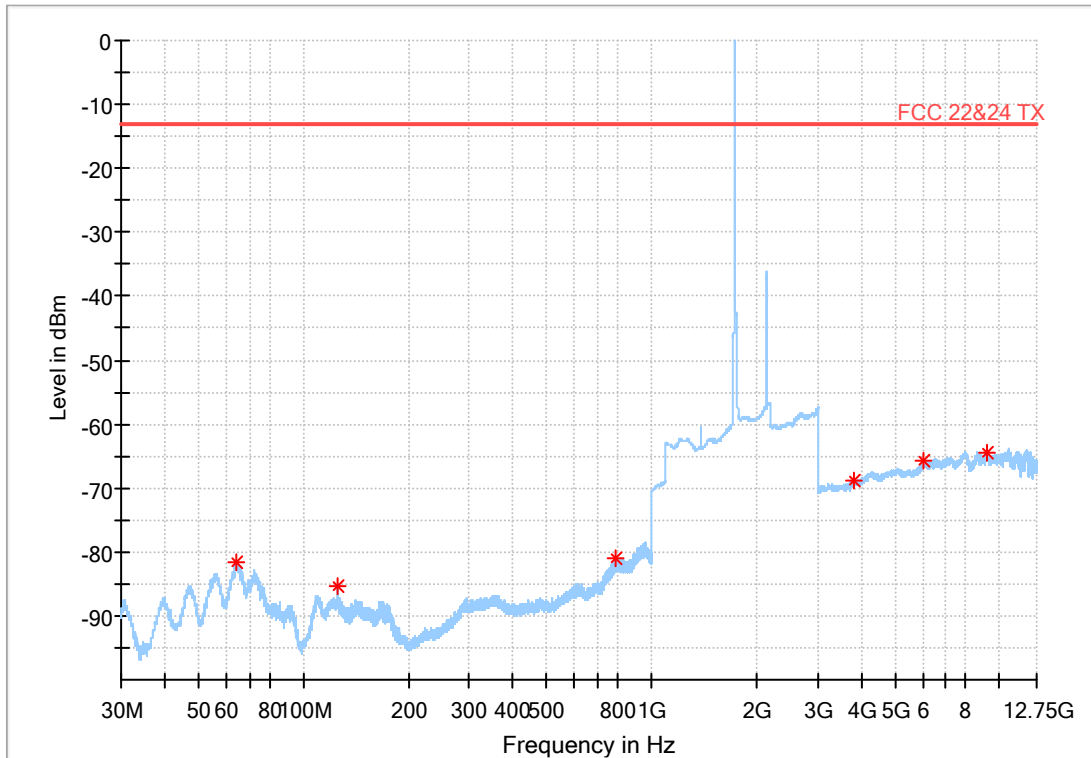
Full Spectrum





8.1.2.4. Test Channel = MCH_V

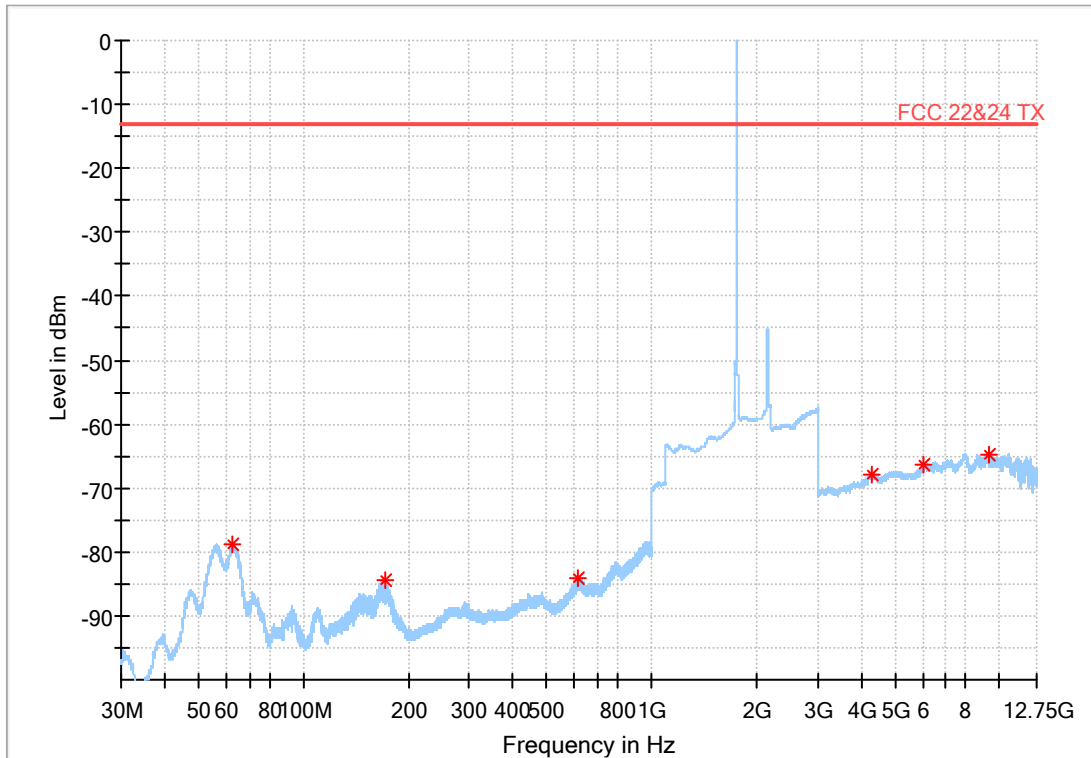
Full Spectrum





8.1.2.5. Test Channel = HCH_H

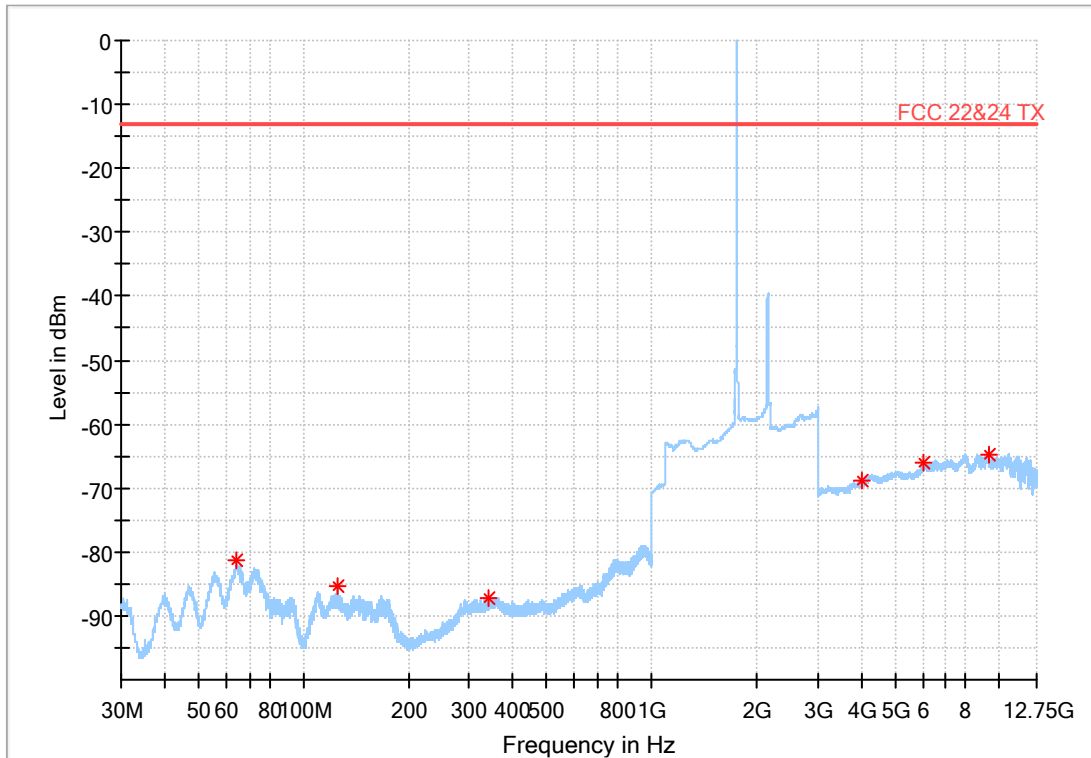
Full Spectrum





8.1.2.6. Test Channel = HCH_V

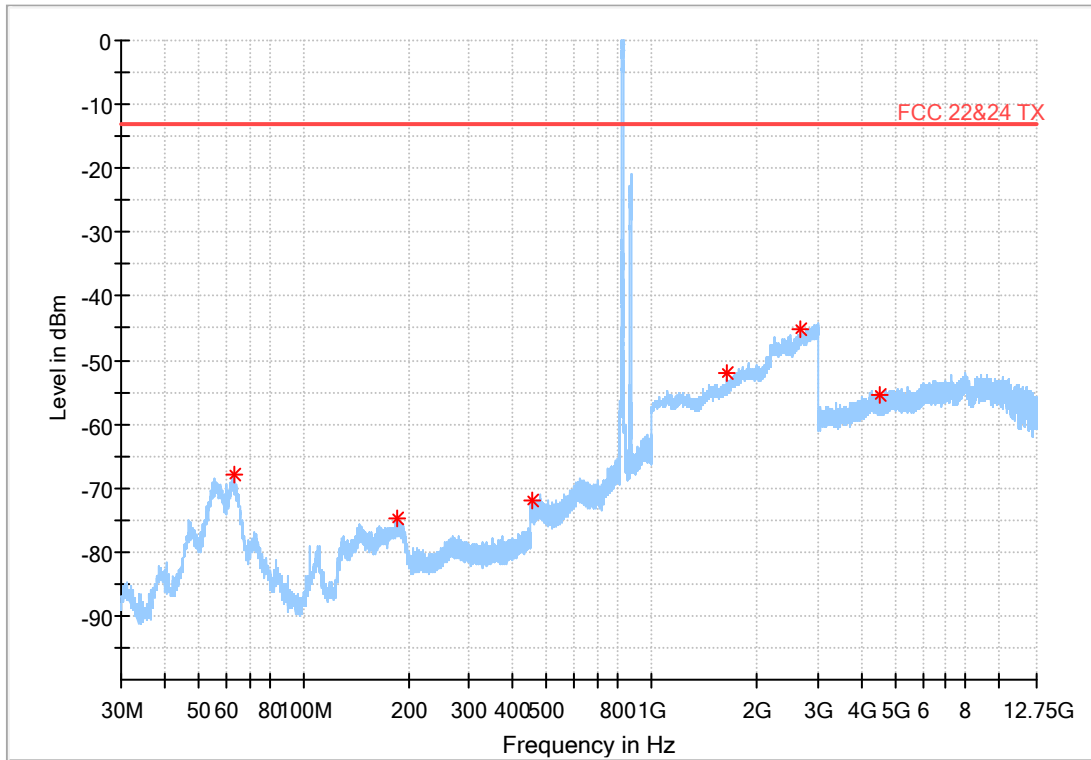
Full Spectrum



8.1.3. Test Band = WCDMA BAND V

8.1.3.1. Test Channel = LCH_H

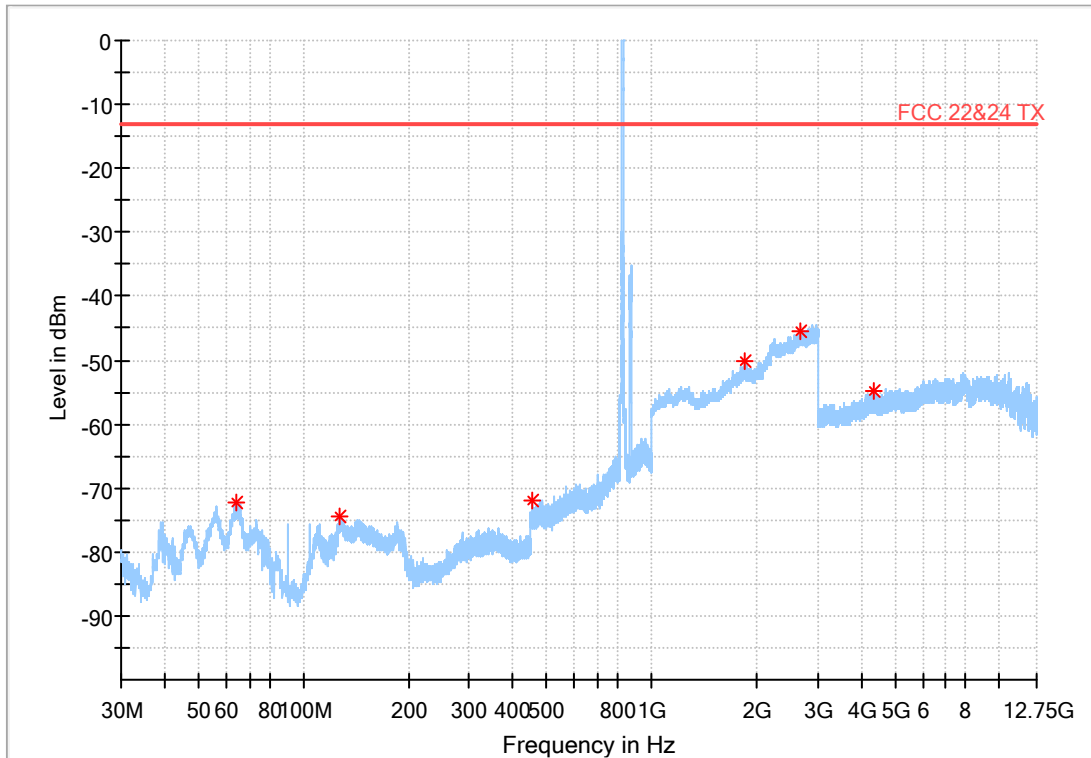
Full Spectrum





8.1.3.2. Test Channel = LCH_V

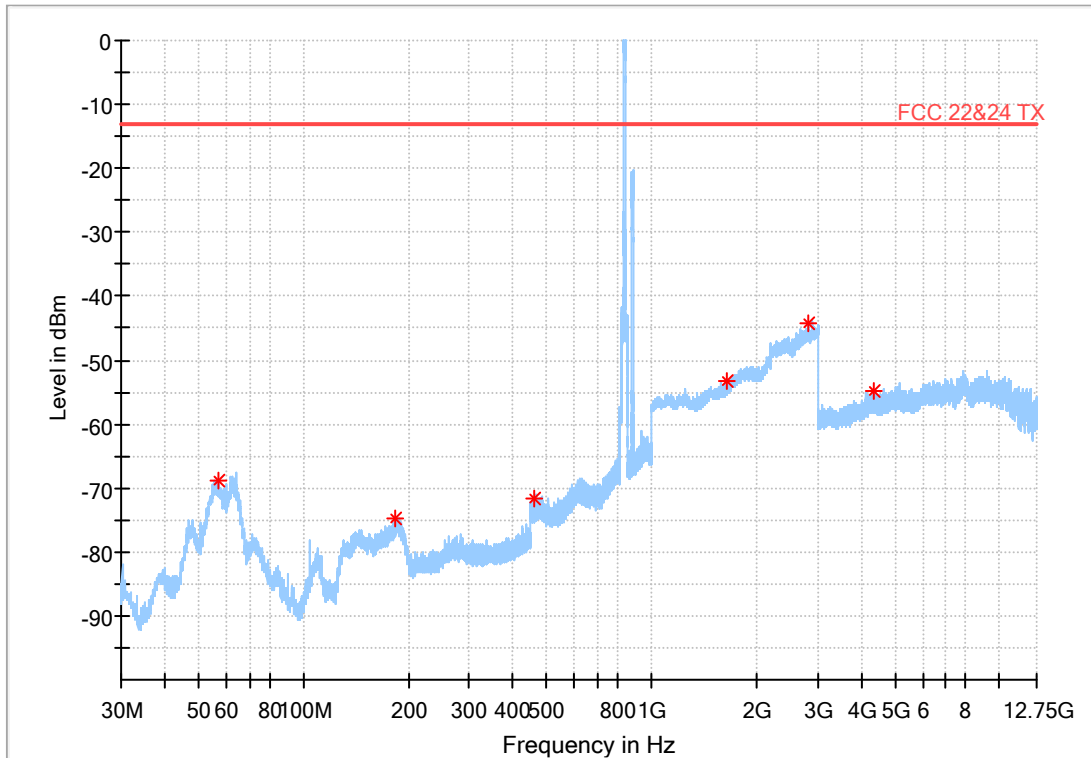
Full Spectrum





8.1.3.3. Test Channel = MCH_H

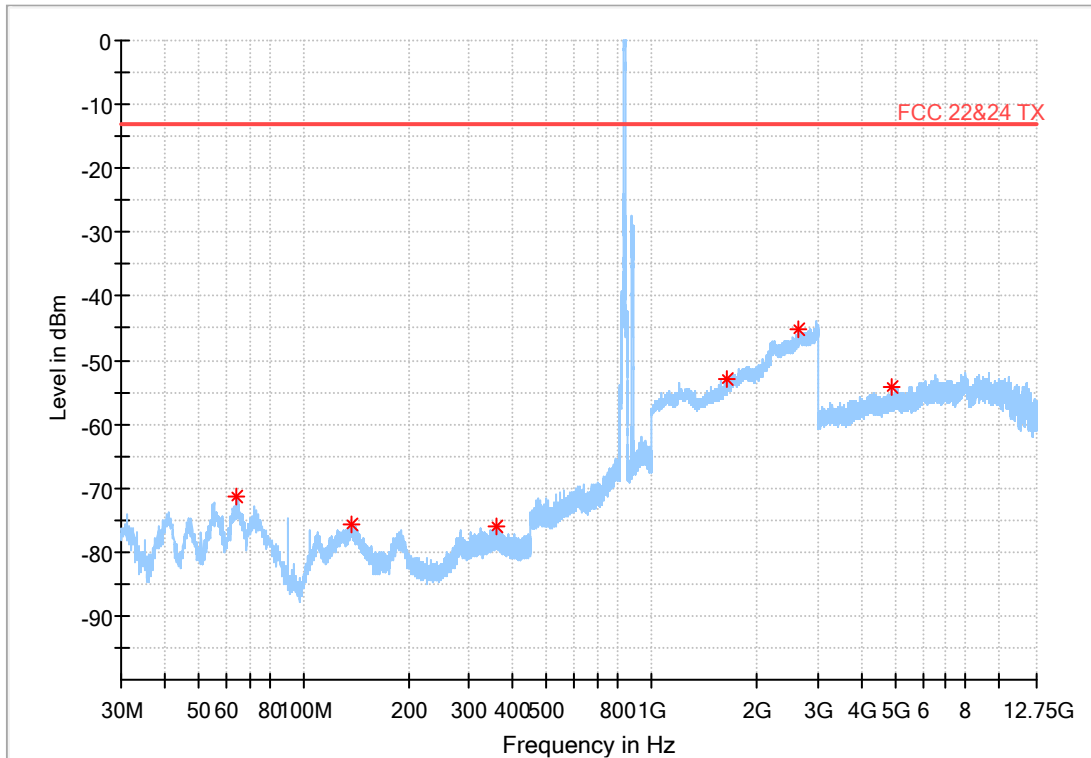
Full Spectrum





8.1.3.4. Test Channel = MCH_V

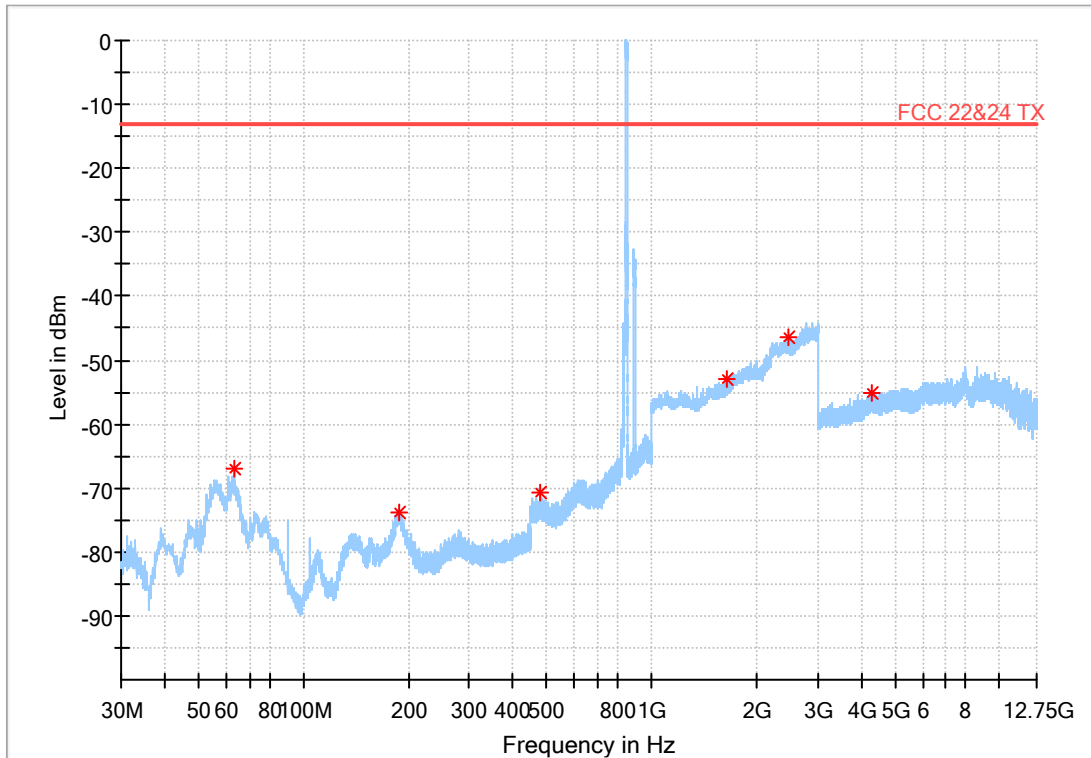
Full Spectrum





8.1.3.5. Test Channel = HCH_H

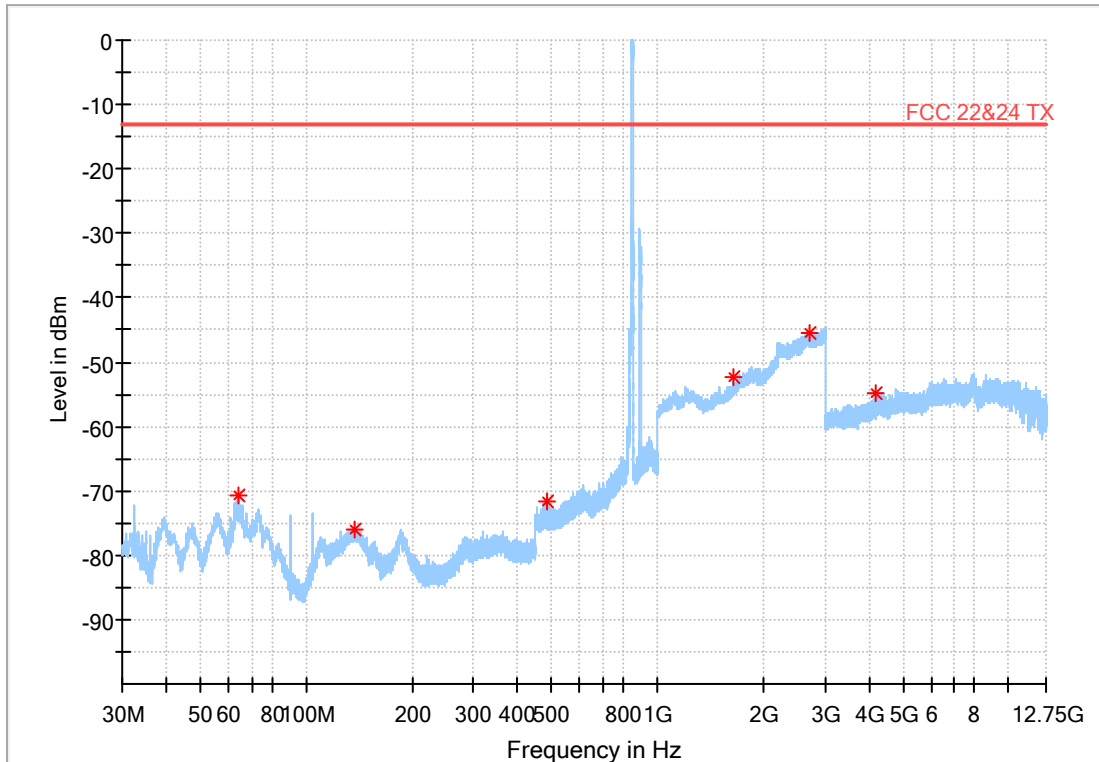
Full Spectrum





8.1.3.6. Test Channel = HCH_V

Full Spectrum

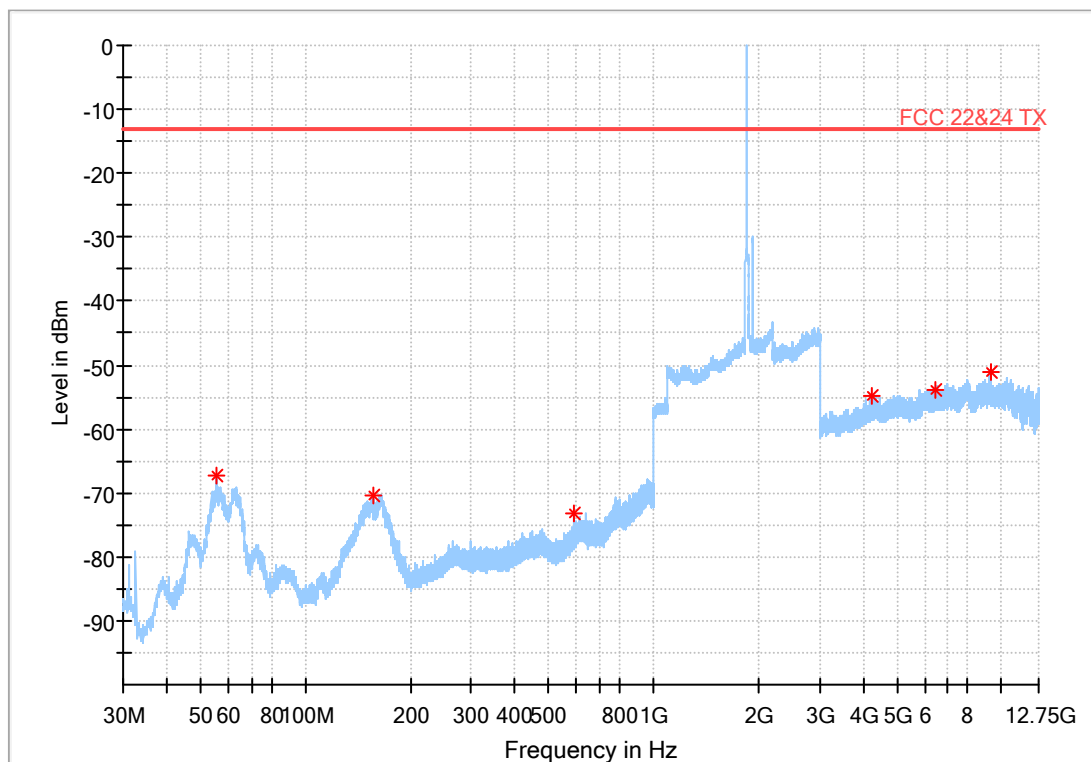


8.2. For WCDMA-Second Antenna

8.2.1. Test Band = WC DMA BAND II

8.2.1.1. Test Channel = LCH_H

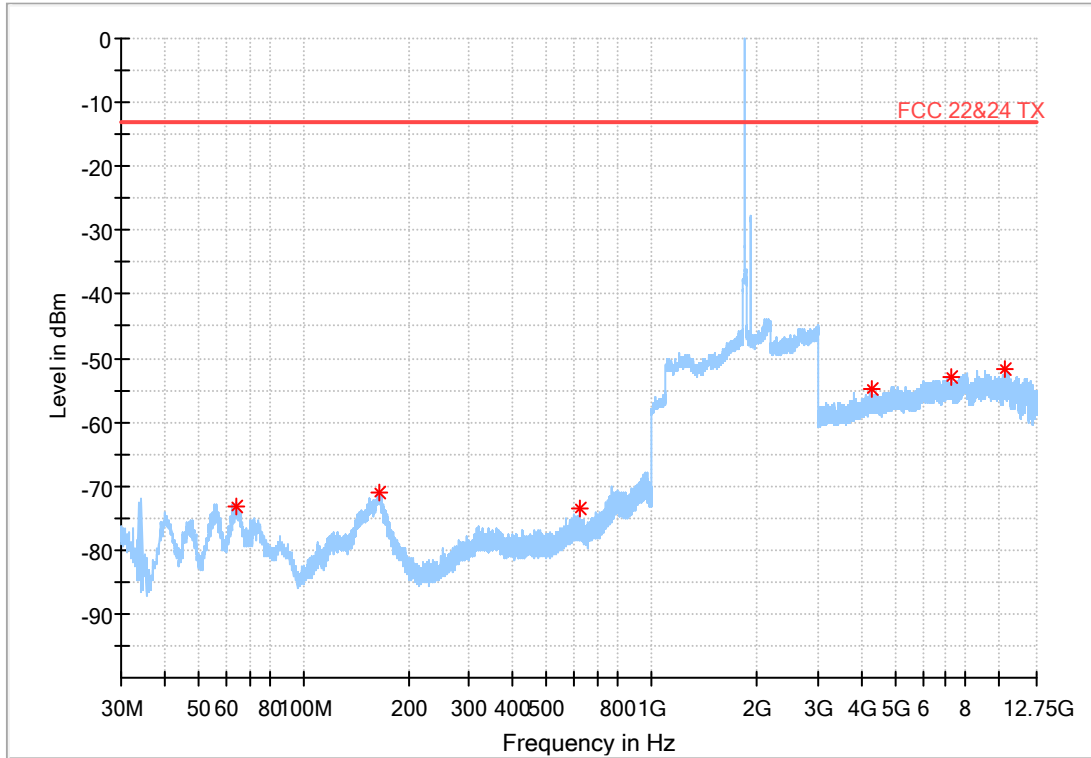
Full Spectrum





8.2.1.2. Test Channel = LCH_V

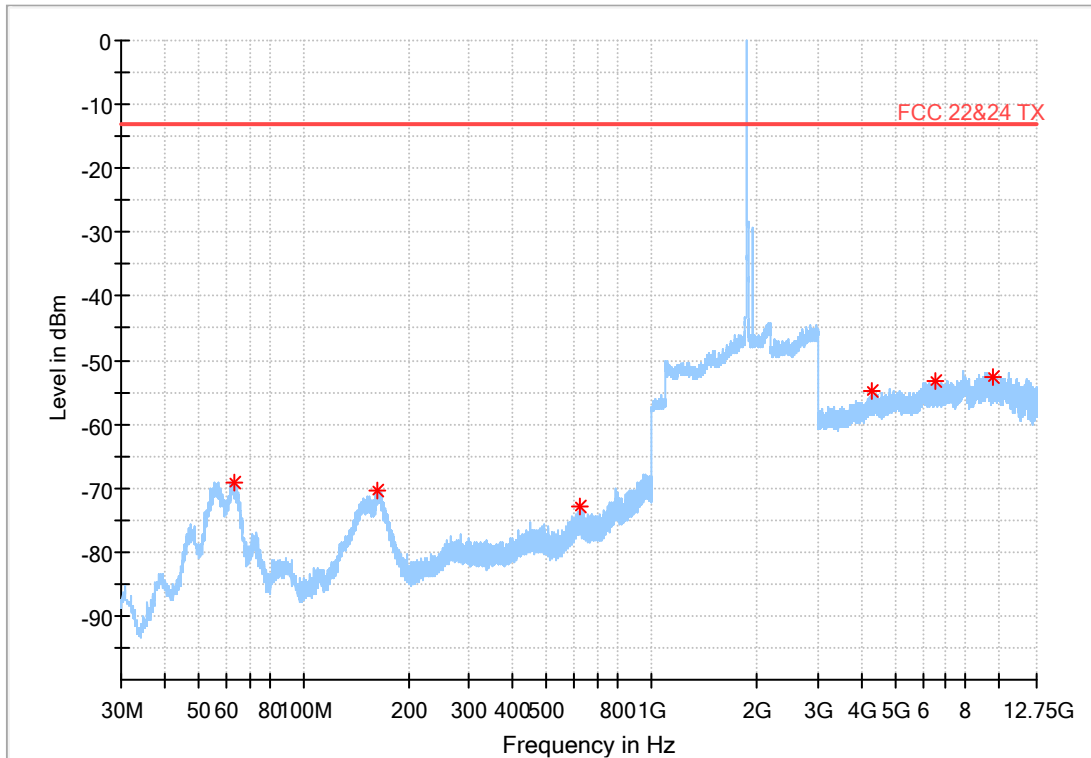
Full Spectrum





8.2.1.3. Test Channel = MCH_H

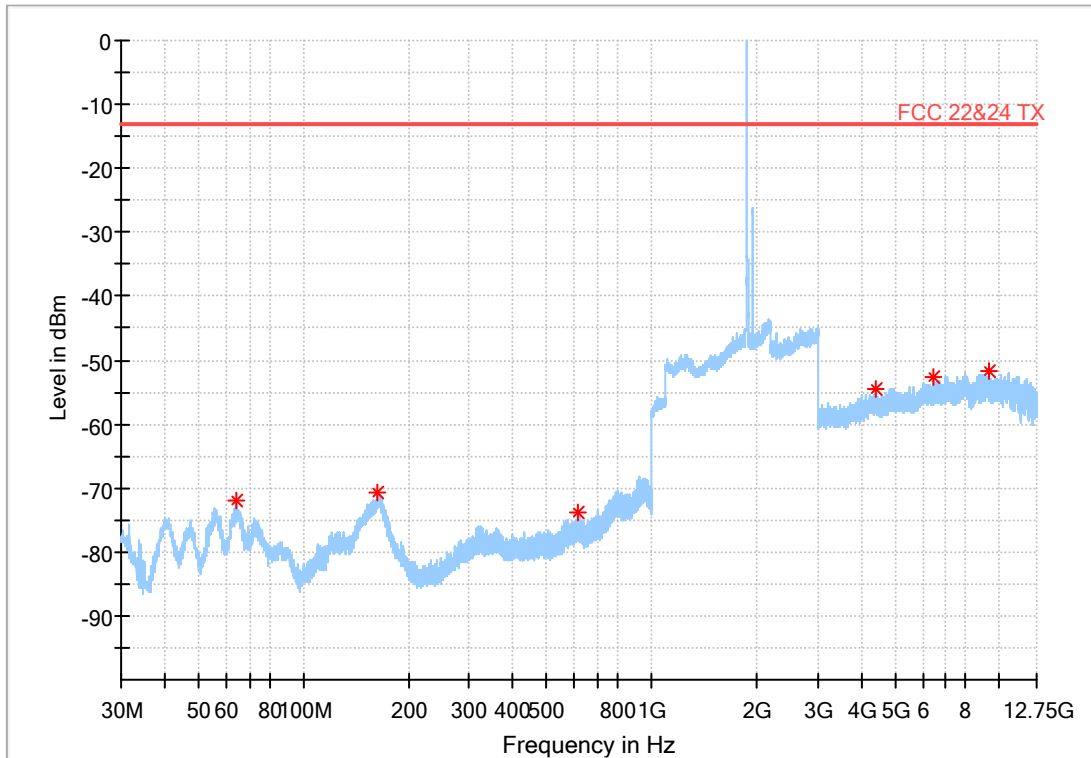
Full Spectrum





8.2.1.4. Test Channel = MCH_V

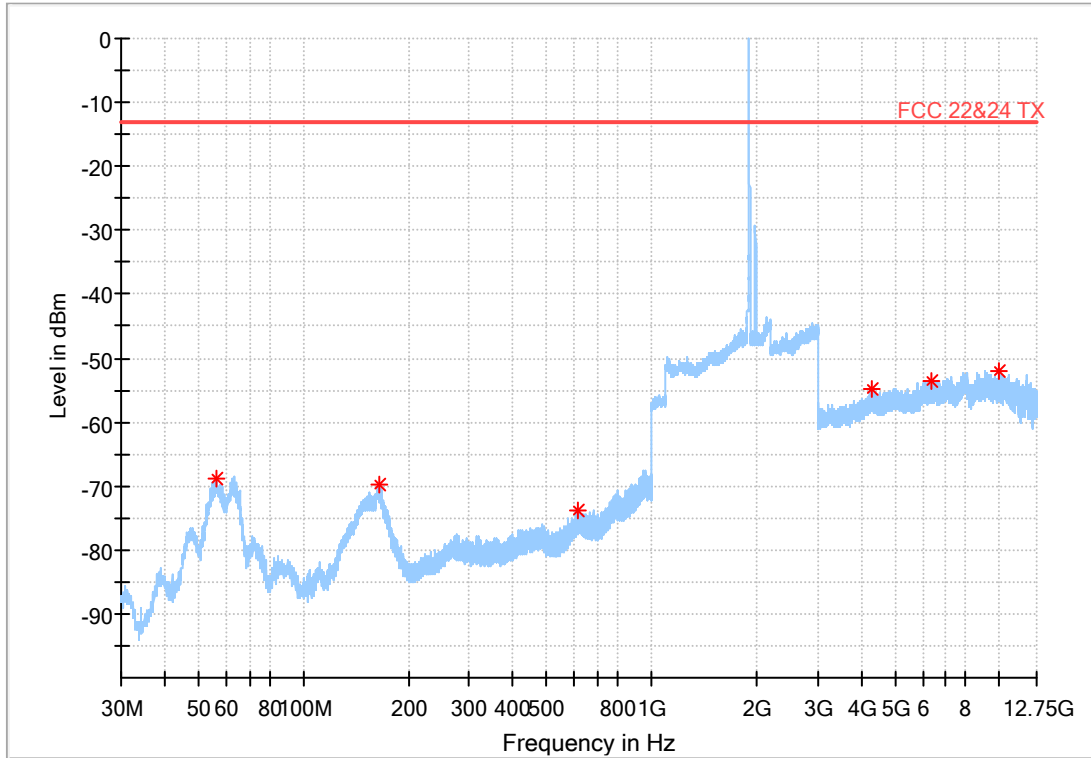
Full Spectrum





8.2.1.5. Test Channel = HCH_H

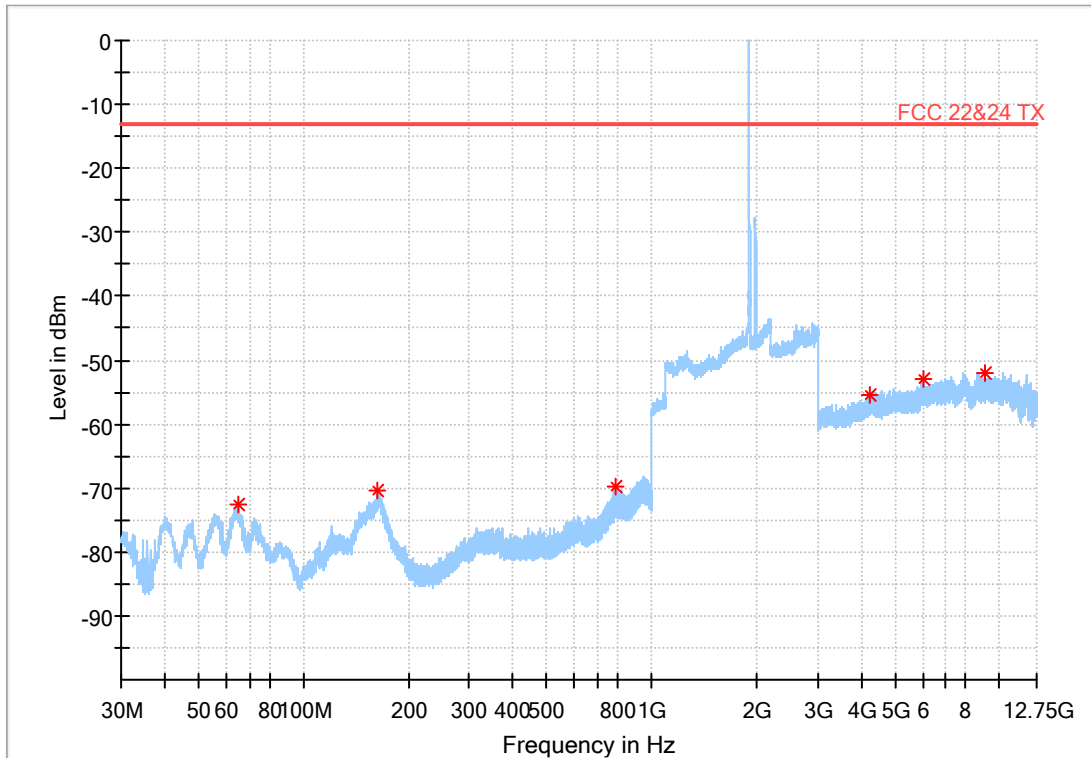
Full Spectrum





8.2.1.6. Test Channel = HCH_V

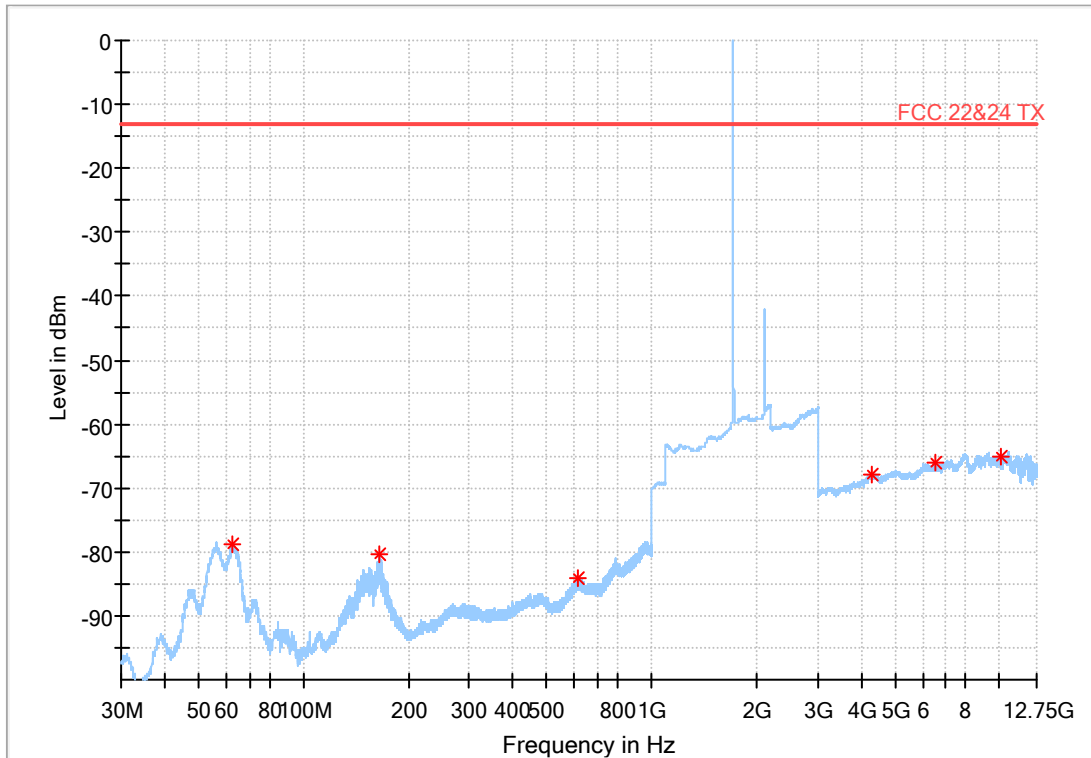
Full Spectrum



8.2.2. Test Band = WCDMA BAND IV

8.2.2.1. Test Channel = LCH_H

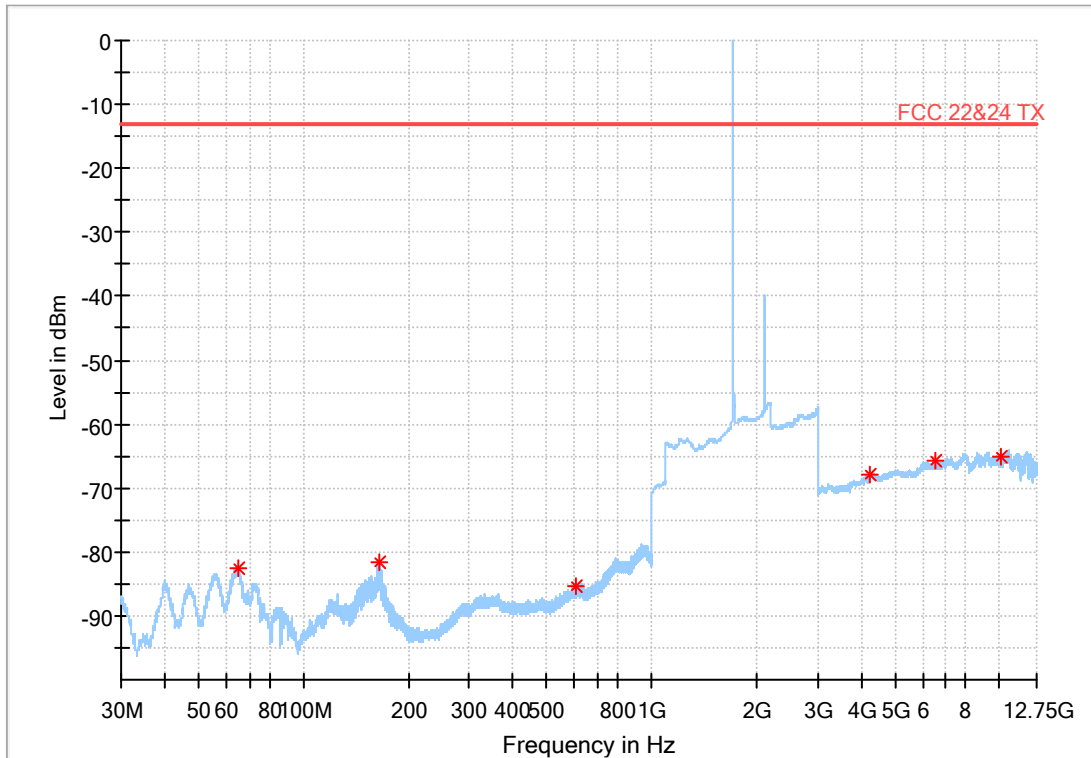
Full Spectrum





8.2.2.2. Test Channel = LCH_V

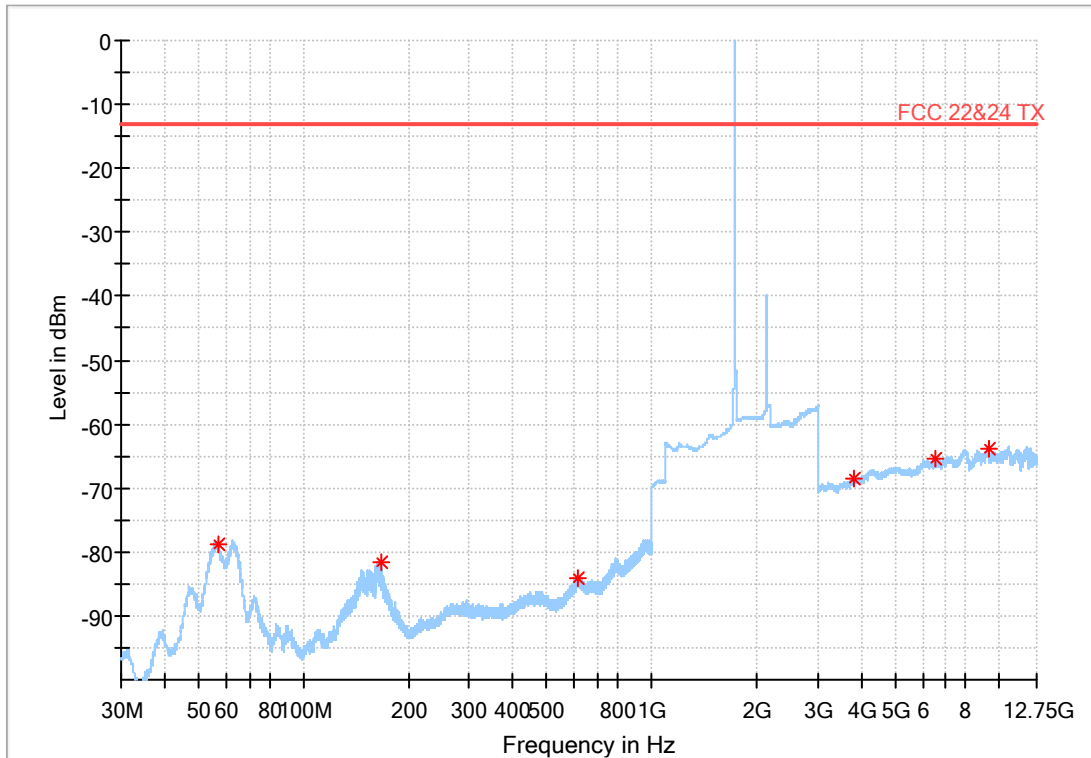
Full Spectrum





8.2.2.3. Test Channel = MCH_H

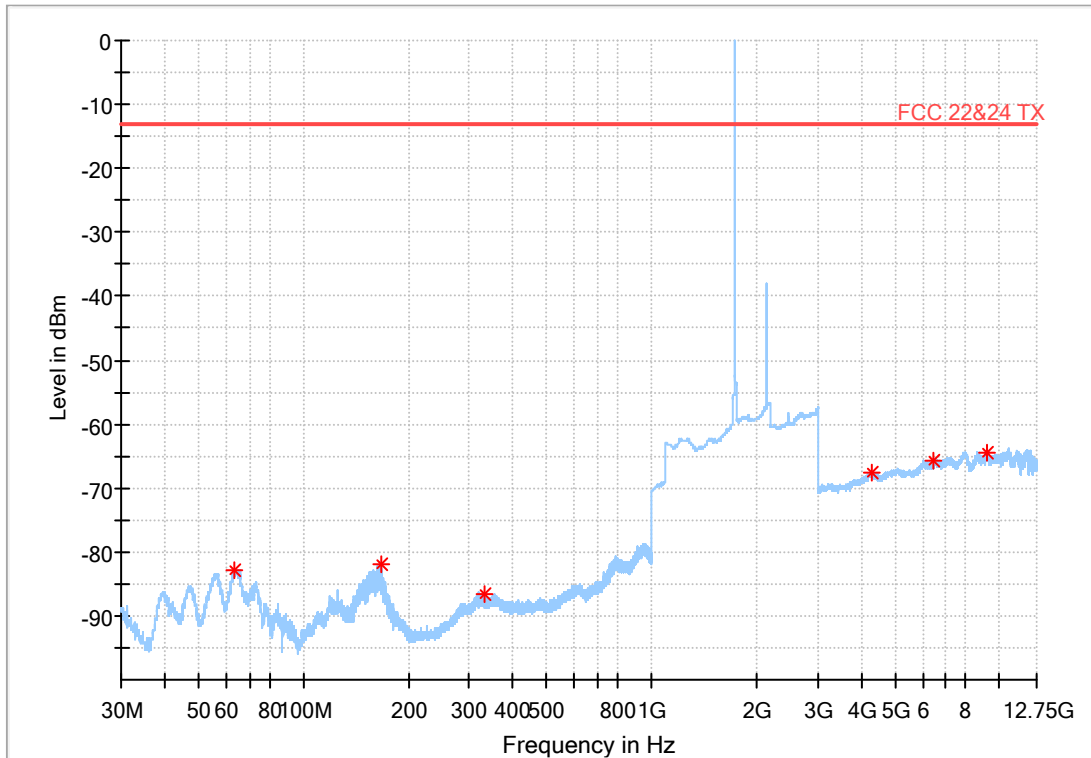
Full Spectrum





8.2.2.4. Test Channel = MCH_V

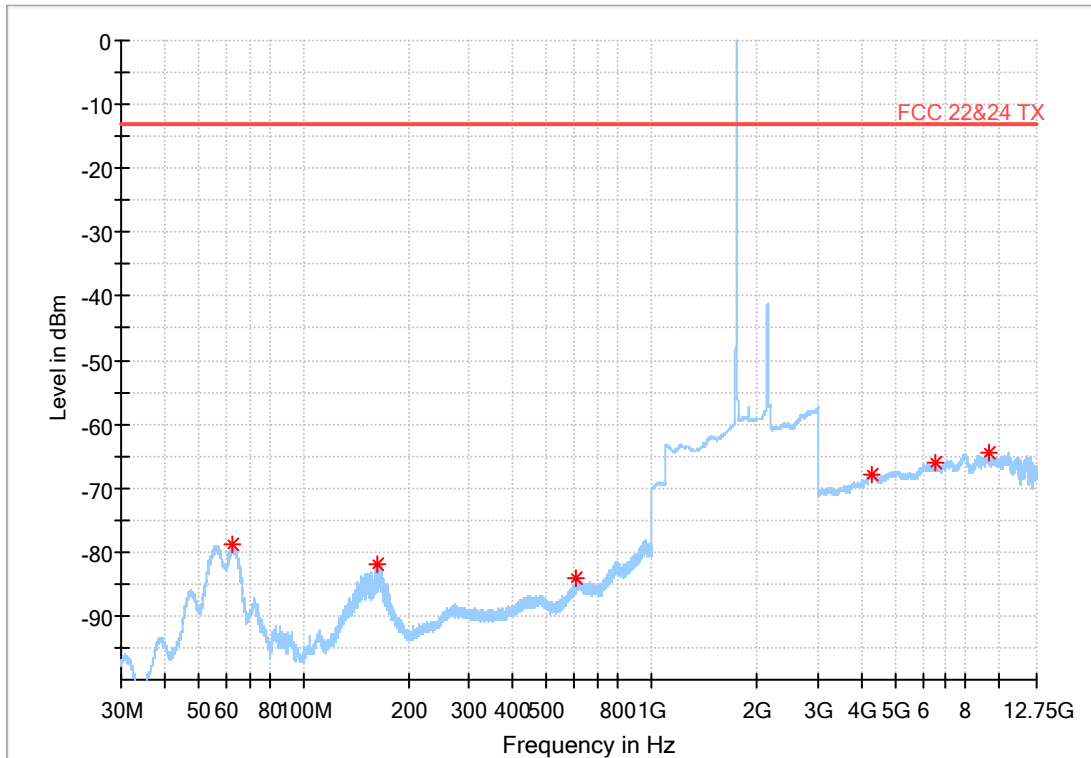
Full Spectrum





8.2.2.5. Test Channel = HCH_H

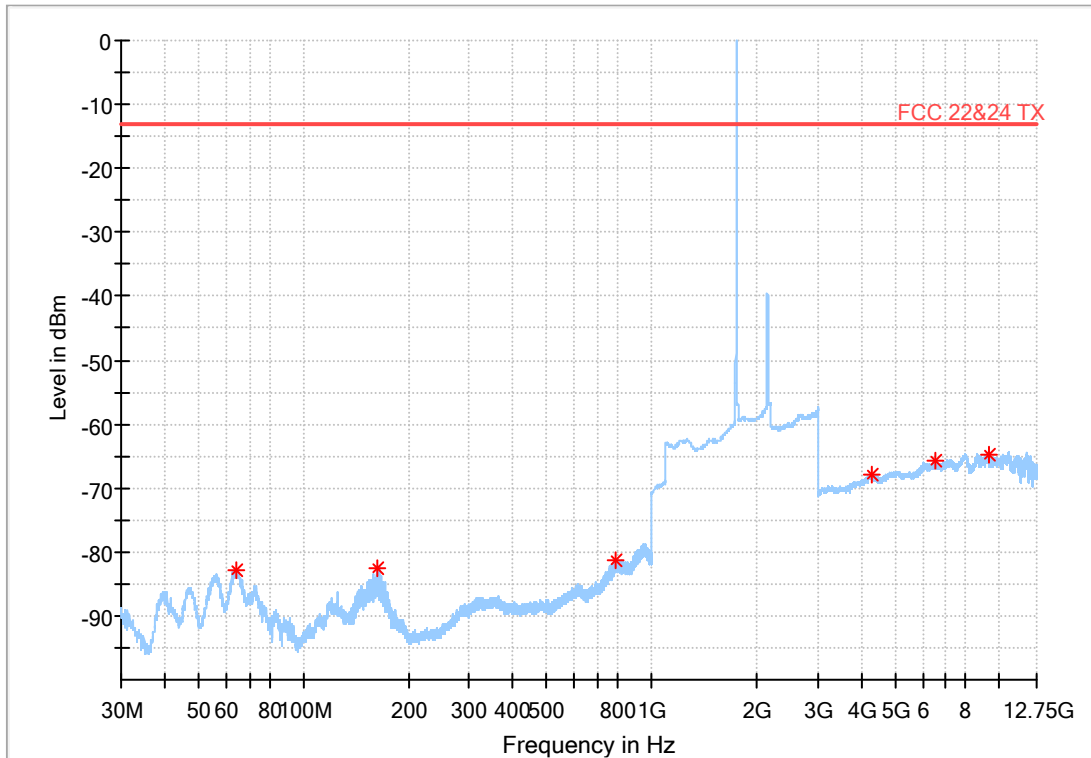
Full Spectrum





8.2.2.6. Test Channel = HCH_V

Full Spectrum

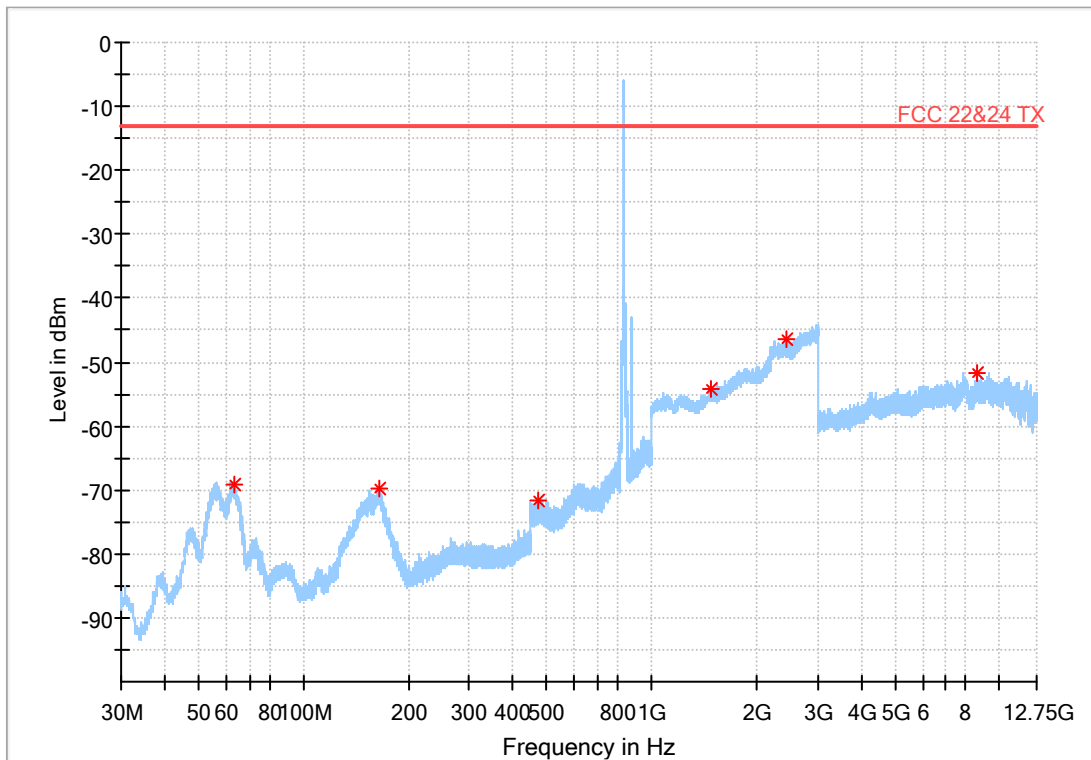




8.2.3. Test Band = WCDMA BAND V

8.2.3.1. Test Channel = LCH_H

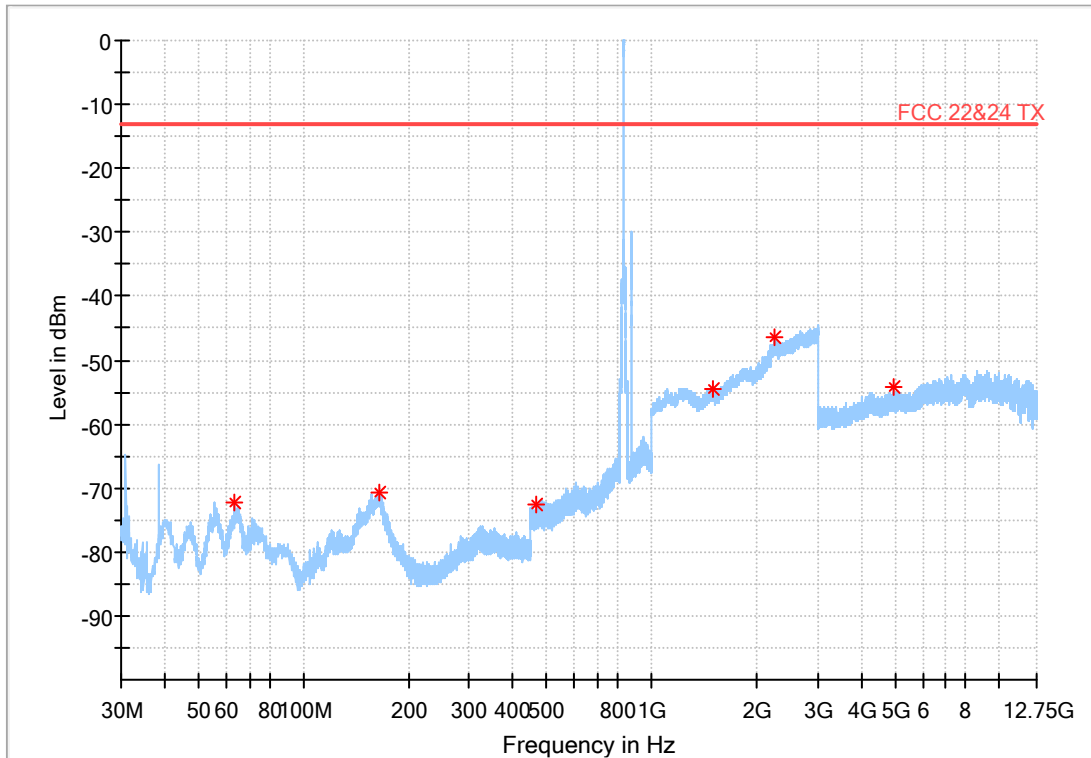
Full Spectrum





8.2.3.2. Test Channel = LCH_V

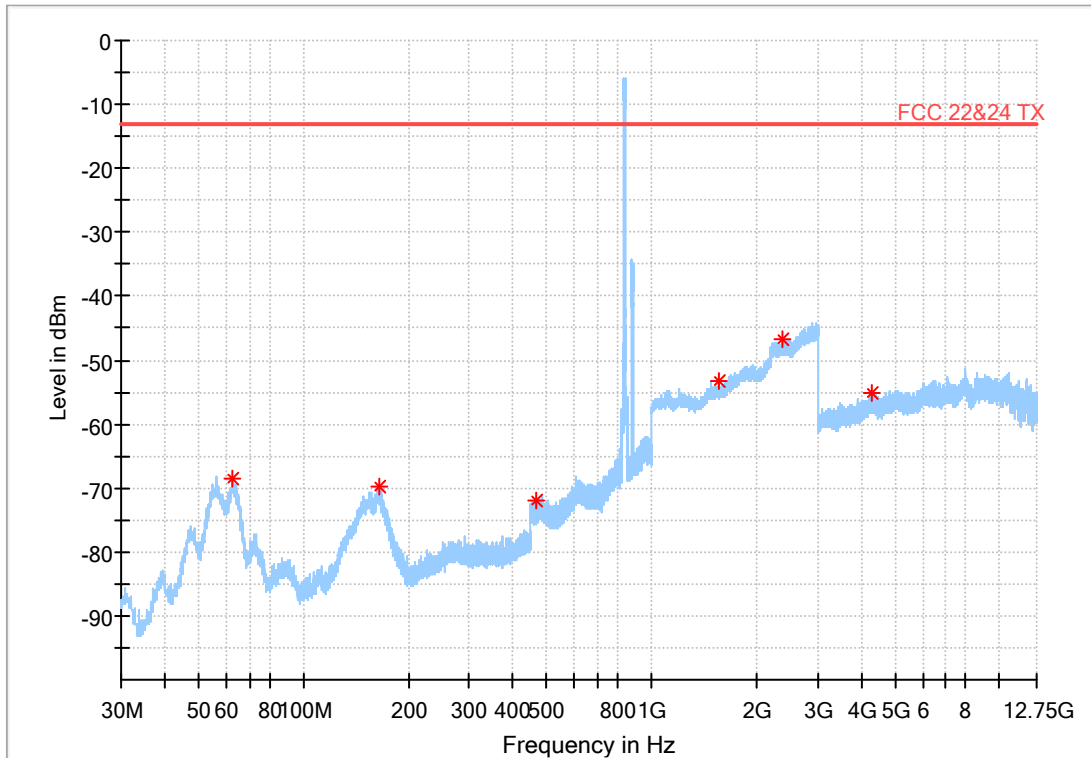
Full Spectrum





8.2.3.3. Test Channel = MCH_H

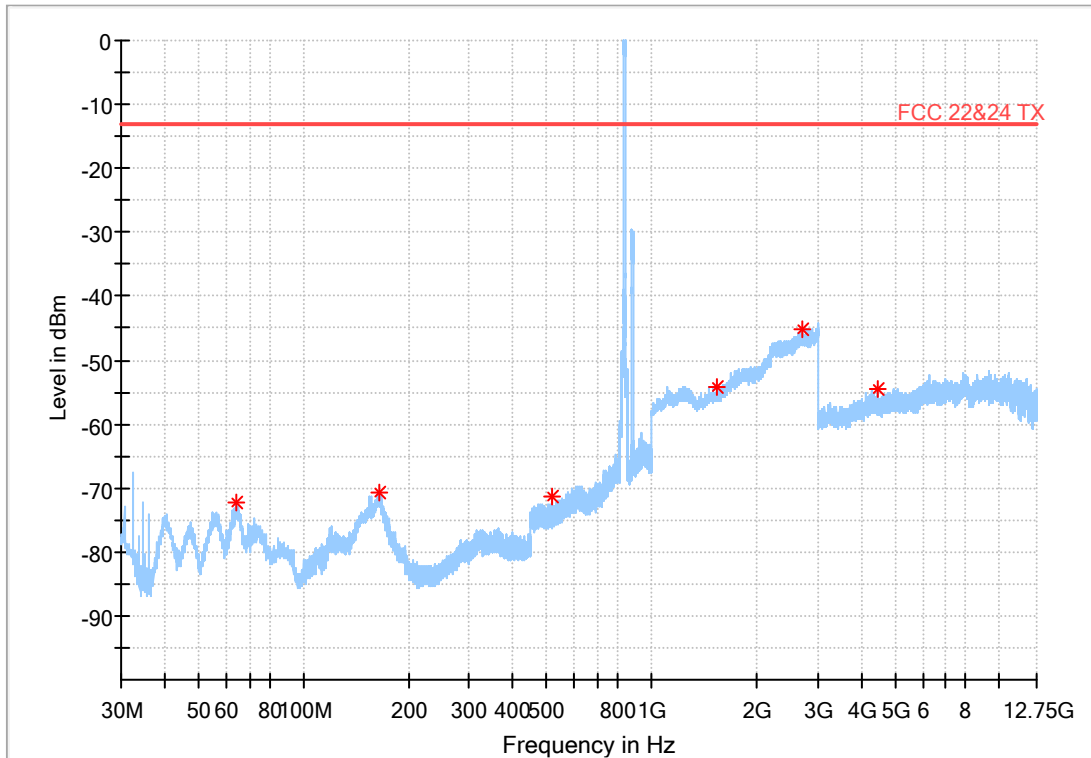
Full Spectrum





8.2.3.4. Test Channel = MCH_V

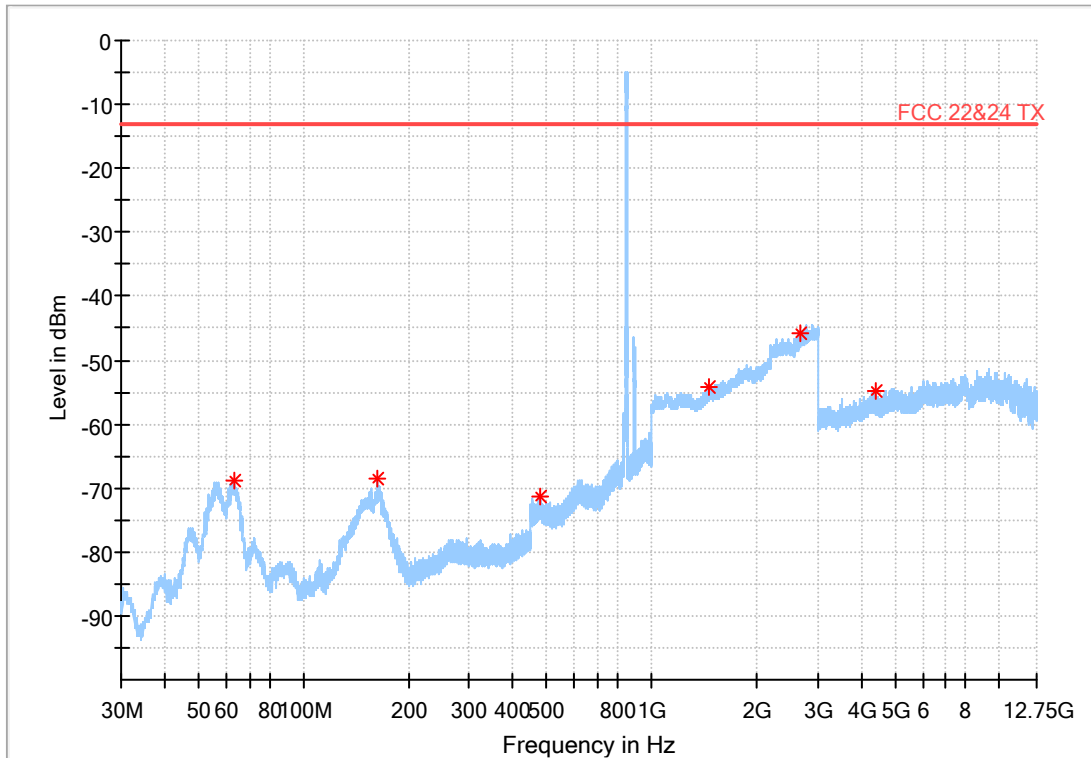
Full Spectrum





8.2.3.5. Test Channel = HCH_H

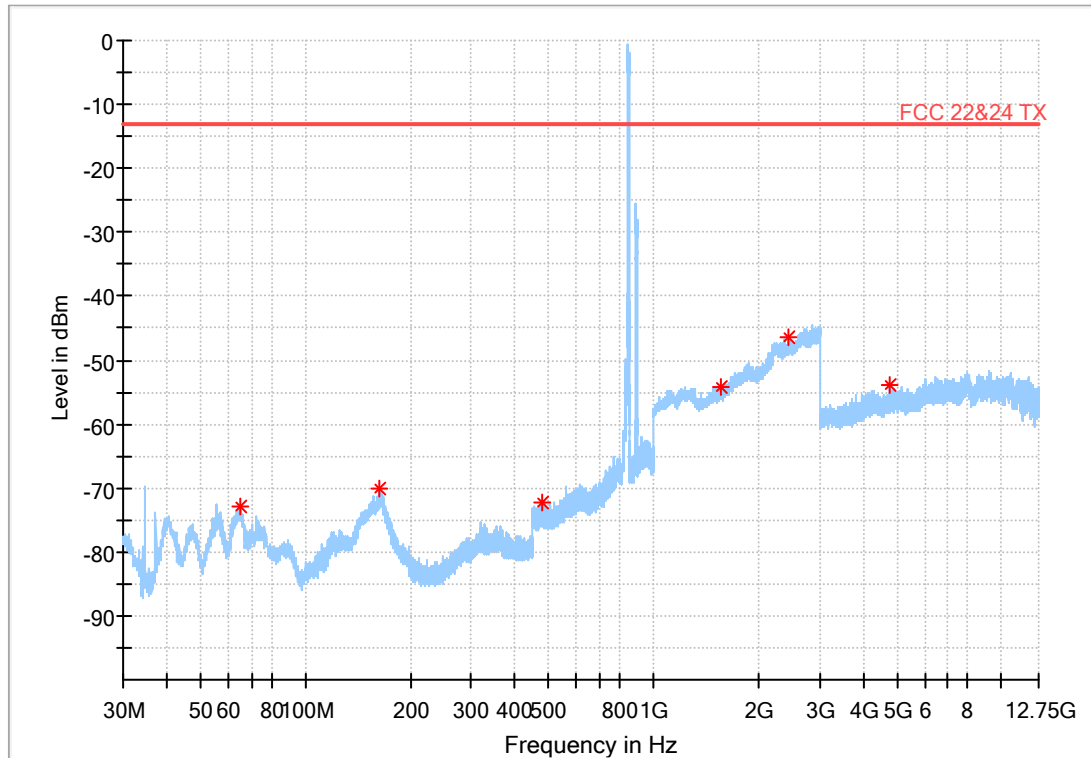
Full Spectrum





8.2.3.6. Test Channel = HCH_V

Full Spectrum



NOTE:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case had been displayed.
- 2) We have tested all modulation and channels, but only the worst case data was displayed in this report.



8. Frequency Stability

9.1. Frequency Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND II	9262	VL	TN	-1.68	-0.000907	2.5	PASS
BAND II	9262	VN	TN	-5.87	-0.003166	2.5	PASS
BAND II	9262	VH	TN	-2.42	-0.001305	2.5	PASS
BAND II	9400	VL	TN	14.68	0.007807	2.5	PASS
BAND II	9400	VN	TN	7.02	0.003732	2.5	PASS
BAND II	9400	VH	TN	25.83	0.013738	2.5	PASS
BAND II	9538	VL	TN	16.89	0.008853	2.5	PASS
BAND II	9538	VN	TN	11.64	0.006104	2.5	PASS
BAND II	9538	VH	TN	14.61	0.007656	2.5	PASS
BAND IV	1312	VL	TN	14.91	0.008705	2.5	PASS
BAND IV	1312	VN	TN	9.18	0.005363	2.5	PASS
BAND IV	1312	VH	TN	19.26	0.011248	2.5	PASS
BAND IV	1413	VL	TN	15.34	0.008851	2.5	PASS
BAND IV	1413	VN	TN	2.35	0.001354	2.5	PASS
BAND IV	1413	VH	TN	20.48	0.011819	2.5	PASS
BAND IV	1513	VL	TN	9.69	0.005530	2.5	PASS
BAND IV	1513	VN	TN	-7.32	-0.004179	2.5	PASS
BAND IV	1513	VH	TN	14.37	0.008199	2.5	PASS
BAND V	4132	VL	TN	4.94	0.005972	2.5	PASS
BAND V	4132	VN	TN	1.62	0.001956	2.5	PASS
BAND V	4132	VH	TN	-2.01	-0.002432	2.5	PASS
BAND V	4182	VL	TN	14.08	0.016830	2.5	PASS
BAND V	4182	VN	TN	17.07	0.020413	2.5	PASS
BAND V	4182	VH	TN	18.37	0.021961	2.5	PASS
BAND V	4233	VL	TN	10.79	0.012740	2.5	PASS
BAND V	4233	VN	TN	1.09	0.001284	2.5	PASS
BAND V	4233	VH	TN	16.82	0.019863	2.5	PASS



9.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND II	9262	VN	-30	-8.86	-0.004784	2.5	PASS
BAND II	9262	VN	-20	9.48	0.005120	2.5	PASS
BAND II	9262	VN	-10	24.50	0.013225	2.5	PASS
BAND II	9262	VN	0	26.56	0.014337	2.5	PASS
BAND II	9262	VN	10	-20.03	-0.010815	2.5	PASS
BAND II	9262	VN	20	-4.42	-0.002386	2.5	PASS
BAND II	9262	VN	30	33.85	0.018271	2.5	PASS
BAND II	9262	VN	40	28.24	0.015244	2.5	PASS
BAND II	9262	VN	50	7.80	0.004209	2.5	PASS
BAND II	9400	VN	-30	12.47	0.006635	2.5	PASS
BAND II	9400	VN	-20	21.45	0.011410	2.5	PASS
BAND II	9400	VN	-10	19.61	0.010432	2.5	PASS
BAND II	9400	VN	0	7.25	0.003858	2.5	PASS
BAND II	9400	VN	10	6.32	0.003359	2.5	PASS
BAND II	9400	VN	20	12.21	0.006494	2.5	PASS
BAND II	9400	VN	30	11.00	0.005851	2.5	PASS
BAND II	9400	VN	40	10.49	0.005581	2.5	PASS
BAND II	9400	VN	50	-5.04	-0.002682	2.5	PASS
BAND II	9538	VN	-30	12.10	0.006344	2.5	PASS
BAND II	9538	VN	-20	-11.01	-0.005774	2.5	PASS
BAND II	9538	VN	-10	17.75	0.009303	2.5	PASS
BAND II	9538	VN	0	2.73	0.001429	2.5	PASS
BAND II	9538	VN	10	14.95	0.007836	2.5	PASS
BAND II	9538	VN	20	7.22	0.003787	2.5	PASS
BAND II	9538	VN	30	10.38	0.005441	2.5	PASS
BAND II	9538	VN	40	-22.54	-0.011818	2.5	PASS
BAND II	9538	VN	50	36.10	0.018924	2.5	PASS
BAND IV	1312	VN	-30	23.94	0.013980	2.5	PASS
BAND IV	1312	VN	-20	2.31	0.001349	2.5	PASS
BAND IV	1312	VN	-10	0.38	0.000221	2.5	PASS
BAND IV	1312	VN	0	17.71	0.010342	2.5	PASS
BAND IV	1312	VN	10	11.29	0.006591	2.5	PASS
BAND IV	1312	VN	20	17.79	0.010388	2.5	PASS
BAND IV	1312	VN	30	38.81	0.022664	2.5	PASS
BAND IV	1312	VN	40	32.16	0.018779	2.5	PASS



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Shenzhen Branch

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BAND IV	1312	VN	50	24.49	0.014302	2.5	PASS
BAND IV	1413	VN	-30	17.44	0.010065	2.5	PASS
BAND IV	1413	VN	-20	6.58	0.003798	2.5	PASS
BAND IV	1413	VN	-10	6.61	0.003814	2.5	PASS
BAND IV	1413	VN	0	4.36	0.002518	2.5	PASS
BAND IV	1413	VN	10	7.71	0.004450	2.5	PASS
BAND IV	1413	VN	20	4.36	0.002514	2.5	PASS
BAND IV	1413	VN	30	4.34	0.002506	2.5	PASS
BAND IV	1413	VN	40	13.31	0.007683	2.5	PASS
BAND IV	1413	VN	50	5.94	0.003431	2.5	PASS
BAND IV	1513	VN	-30	7.77	0.004436	2.5	PASS
BAND IV	1513	VN	-20	17.61	0.010048	2.5	PASS
BAND IV	1513	VN	-10	4.53	0.002583	2.5	PASS
BAND IV	1513	VN	0	32.16	0.018349	2.5	PASS
BAND IV	1513	VN	10	-5.86	-0.003342	2.5	PASS
BAND IV	1513	VN	20	10.66	0.006085	2.5	PASS
BAND IV	1513	VN	30	14.83	0.008464	2.5	PASS
BAND IV	1513	VN	40	4.61	0.002628	2.5	PASS
BAND IV	1513	VN	50	20.87	0.011909	2.5	PASS
BAND V	4132	VN	-30	9.22	0.011156	2.5	PASS
BAND V	4132	VN	-20	7.07	0.008560	2.5	PASS
BAND V	4132	VN	-10	2.02	0.002441	2.5	PASS
BAND V	4132	VN	0	1.68	0.002034	2.5	PASS
BAND V	4132	VN	10	7.62	0.009226	2.5	PASS
BAND V	4132	VN	20	11.46	0.013865	2.5	PASS
BAND V	4132	VN	30	11.57	0.013995	2.5	PASS
BAND V	4132	VN	40	1.09	0.001316	2.5	PASS
BAND V	4132	VN	50	9.57	0.011580	2.5	PASS
BAND V	4182	VN	-30	22.19	0.026527	2.5	PASS
BAND V	4182	VN	-20	25.01	0.029896	2.5	PASS
BAND V	4182	VN	-10	24.86	0.029717	2.5	PASS
BAND V	4182	VN	0	9.99	0.011947	2.5	PASS
BAND V	4182	VN	10	24.51	0.029306	2.5	PASS
BAND V	4182	VN	20	17.02	0.020353	2.5	PASS
BAND V	4182	VN	30	9.84	0.011767	2.5	PASS
BAND V	4182	VN	40	13.55	0.016197	2.5	PASS
BAND V	4182	VN	50	10.66	0.012750	2.5	PASS
BAND V	4233	VN	-30	-19.53	-0.023065	2.5	PASS
BAND V	4233	VN	-20	-1.75	-0.002070	2.5	PASS
BAND V	4233	VN	-10	14.87	0.017565	2.5	PASS



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BAND V	4233	VN	0	-9.75	-0.011515	2.5	PASS
BAND V	4233	VN	10	19.99	0.023614	2.5	PASS
BAND V	4233	VN	20	6.72	0.007933	2.5	PASS
BAND V	4233	VN	30	20.30	0.023977	2.5	PASS
BAND V	4233	VN	40	-5.28	-0.006235	2.5	PASS
BAND V	4233	VN	50	-1.59	-0.001876	2.5	PASS

The End