Appendix B

WCDMA Band II & IV & V

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.98	23.98	33.00	PASS
Band II	9400	23.97	23.97	33.00	PASS
Band II	9538	23.96	23.96	33.00	PASS
Band IV	4132	23.99	23.49	30.00	PASS
Band IV	4182	23.94	23.44	30.00	PASS
Band IV	4233	23.98	23.48	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.35	18.16	38.45	PASS
Band V	4182	23.39	18.20	38.45	PASS
Band V	4233	23.40	18.21	38.45	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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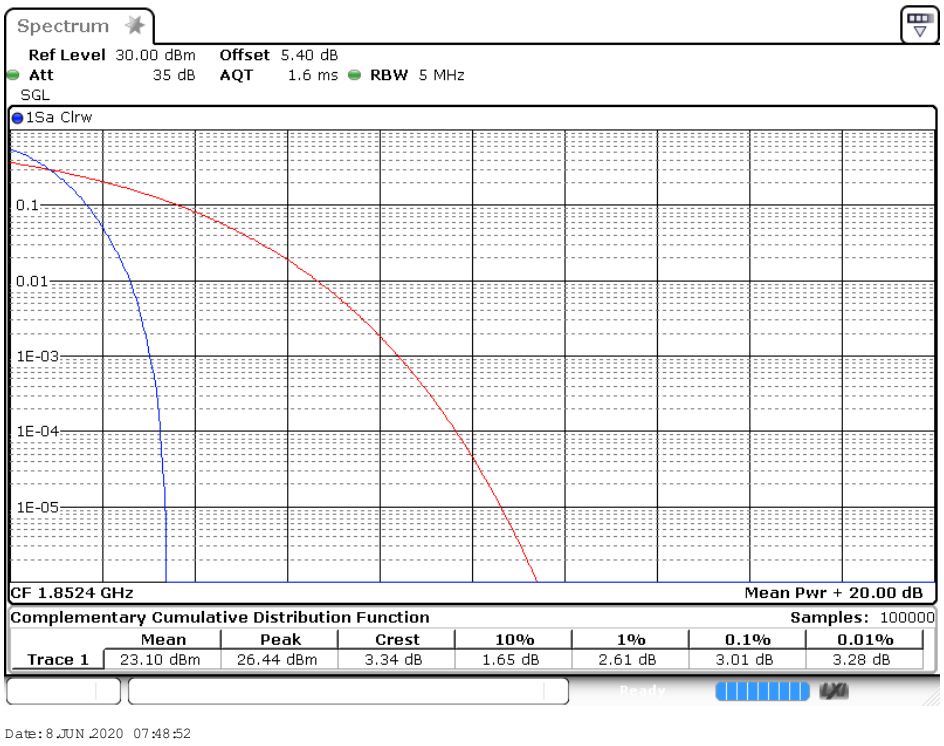
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	3.07	13	PASS
Band II	9538	2.90	13	PASS
Band IV	1312	3.10	13	PASS
Band IV	1413	3.04	13	PASS
Band IV	1513	2.99	13	PASS
Band V	4132	3.07	13	PASS
Band V	4182	3.13	13	PASS
Band V	4233	2.81	13	PASS

2.2. Test Plots

Band II_9262



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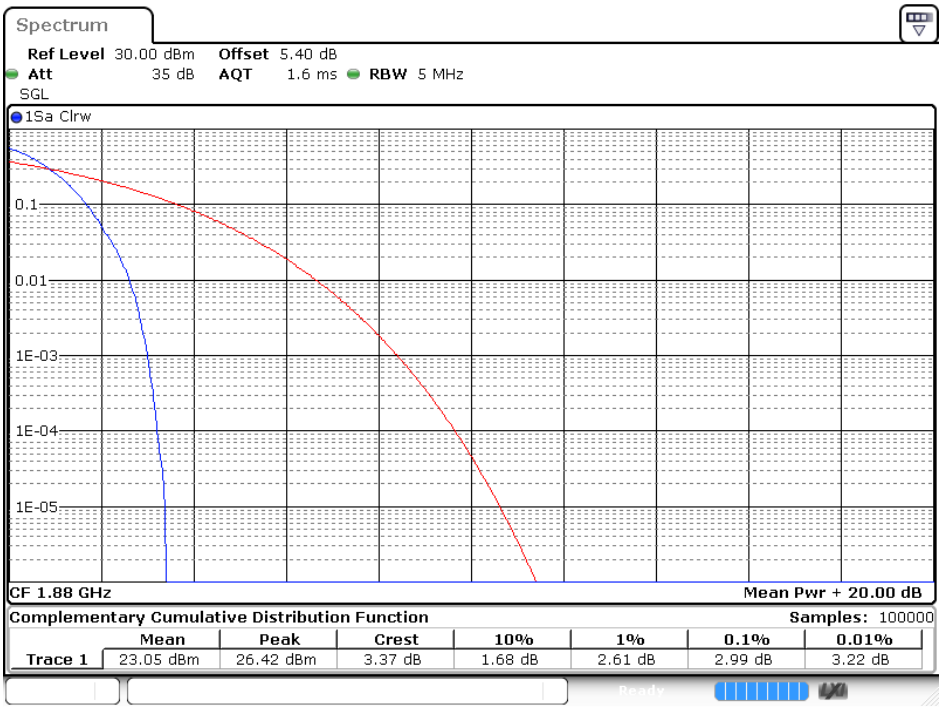
Band II_9400



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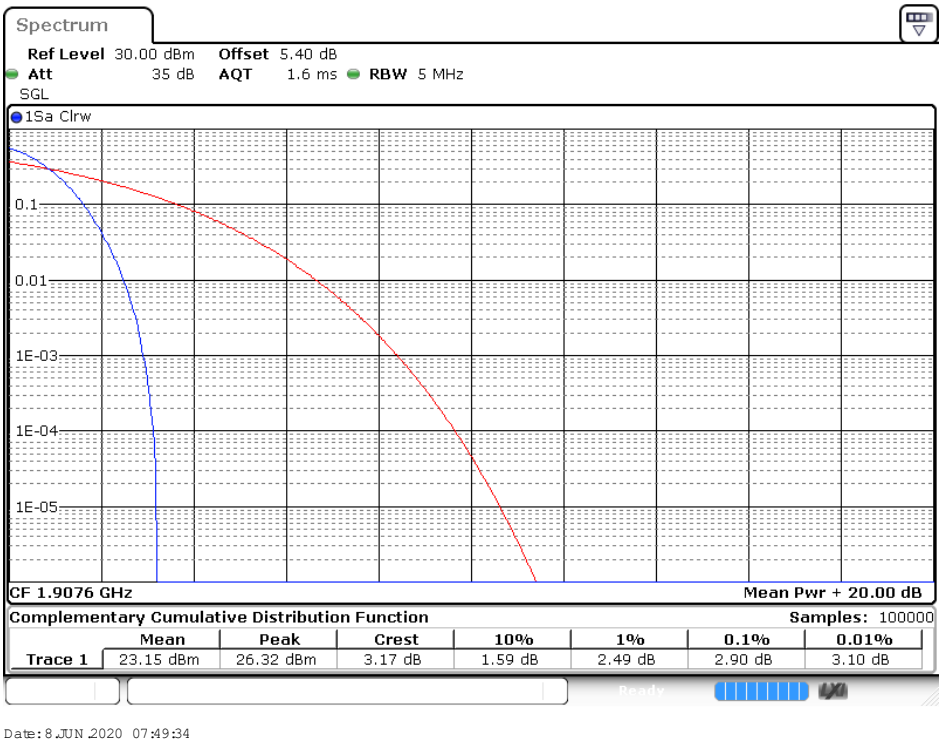
Band II_9538



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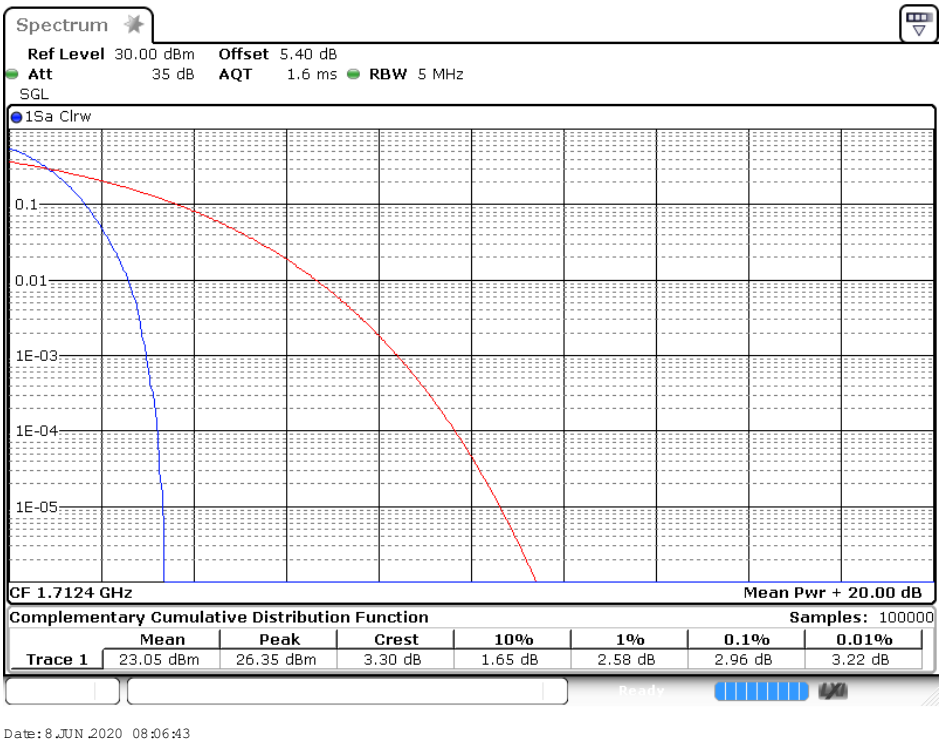
Band IV_1312



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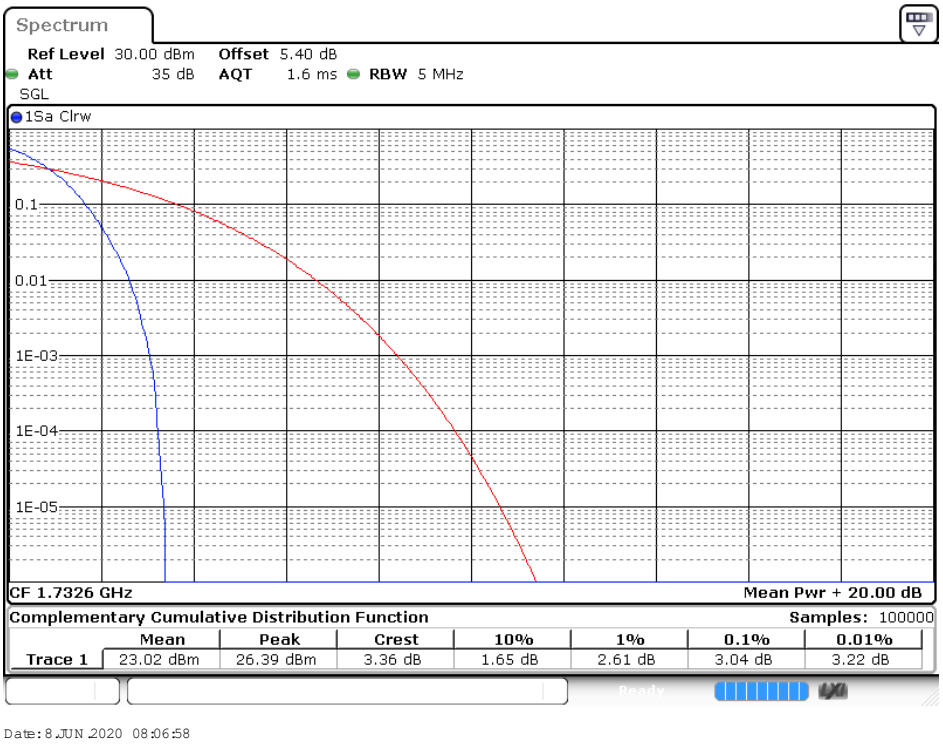
Band IV_1413



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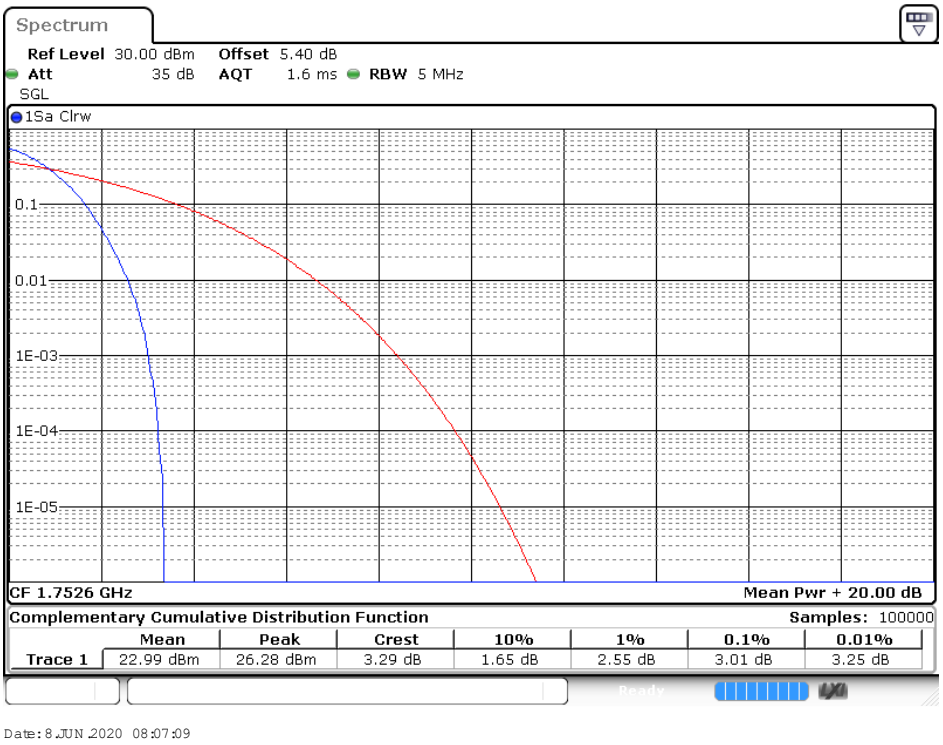

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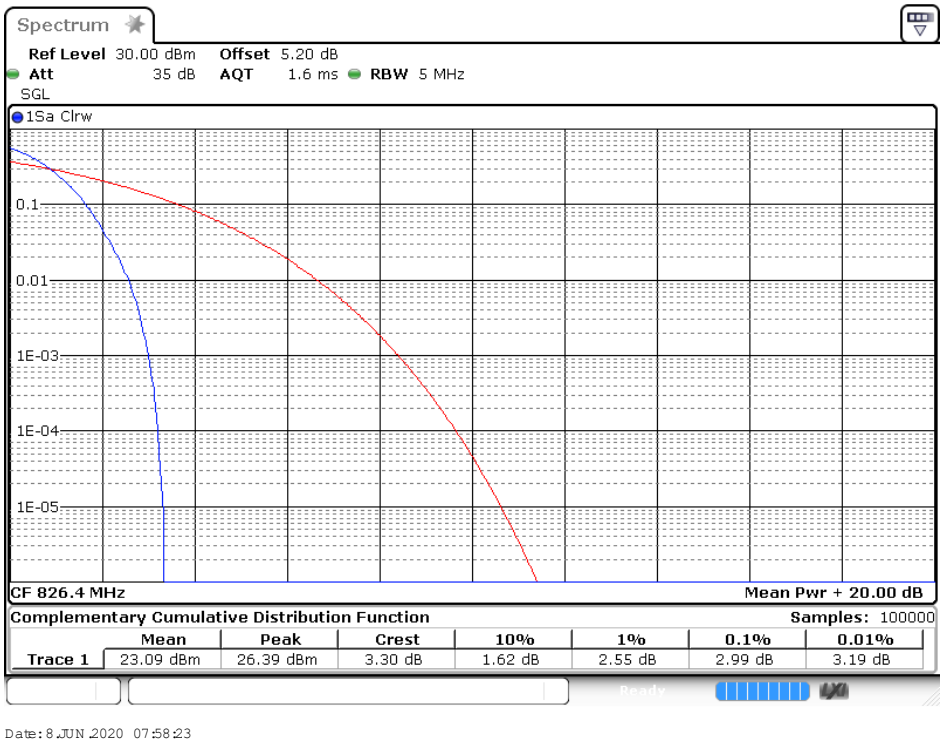

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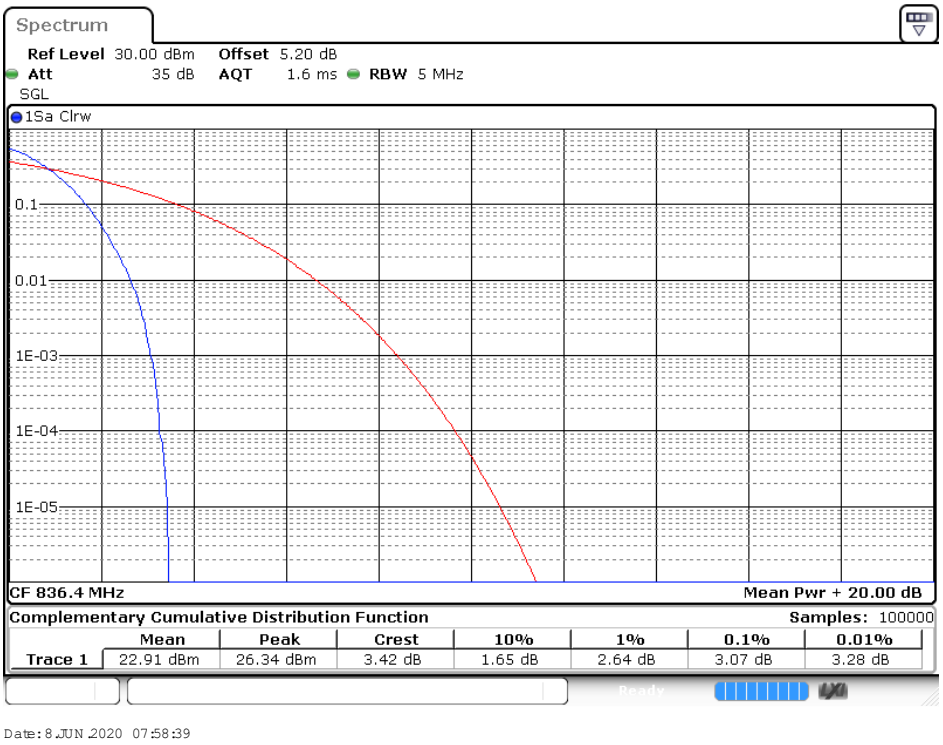
Band V_4182



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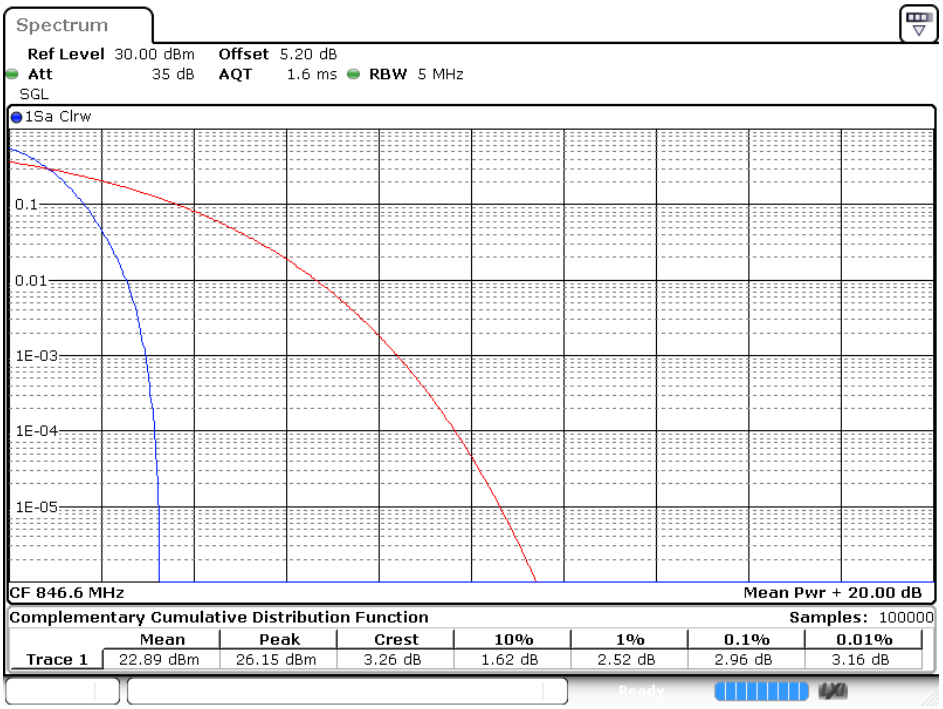

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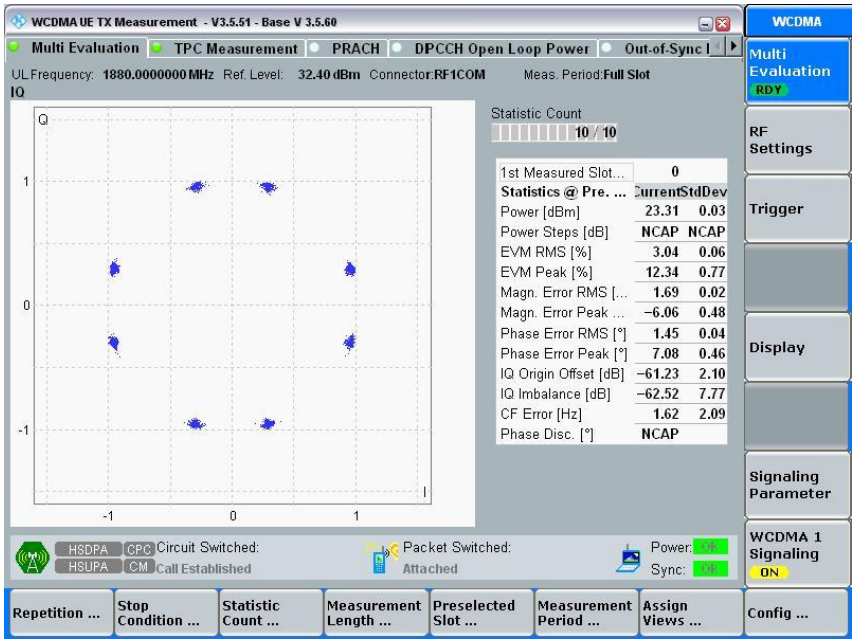
3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



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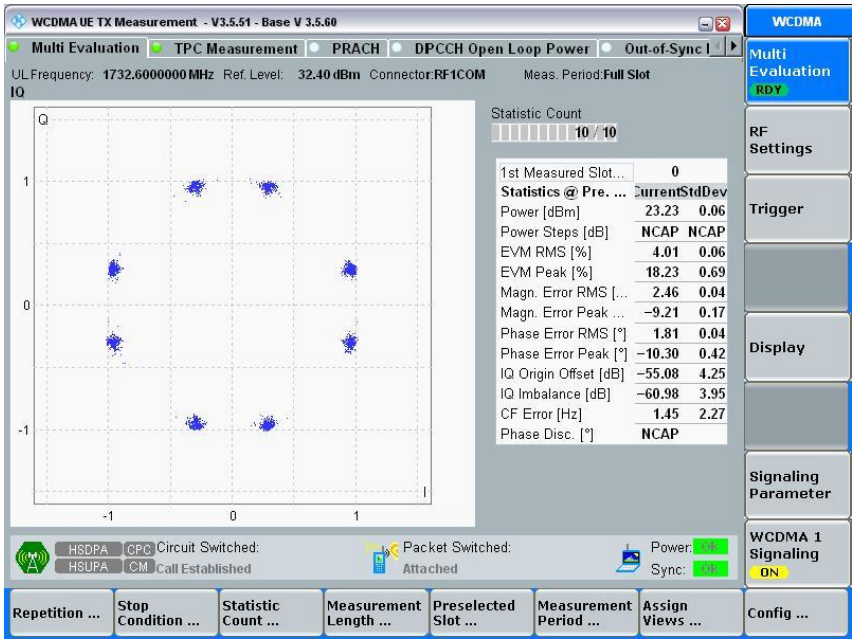
3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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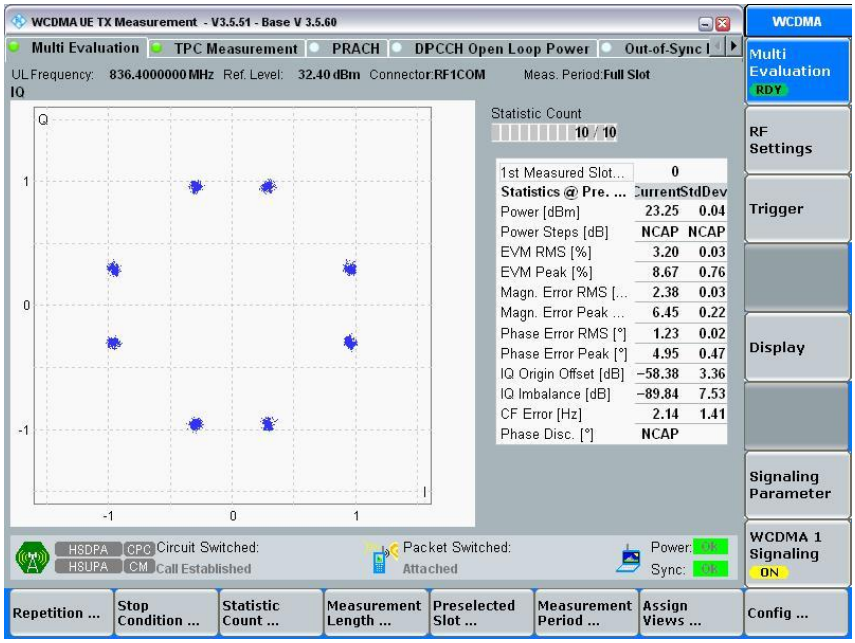
3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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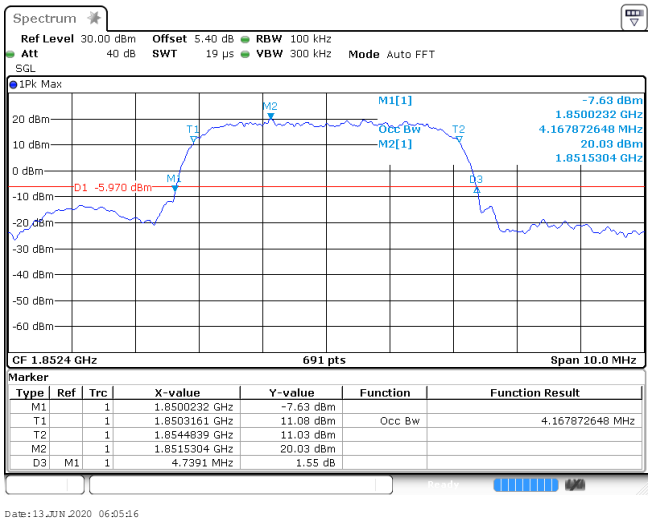
4. 26dB Bandwidth and Occupied Bandwidth

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	4167.9	4725	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4167.9	4725	---	PASS
Band IV	1413	4167.9	4725	---	PASS
Band IV	1513	4182.3	4826	---	PASS
Band V	4132	4153.4	4725	---	PASS
Band V	4182	4167.9	4725	---	PASS
Band V	4233	4196.8	5159	---	PASS

4.2. Test Plots



Band II_9262

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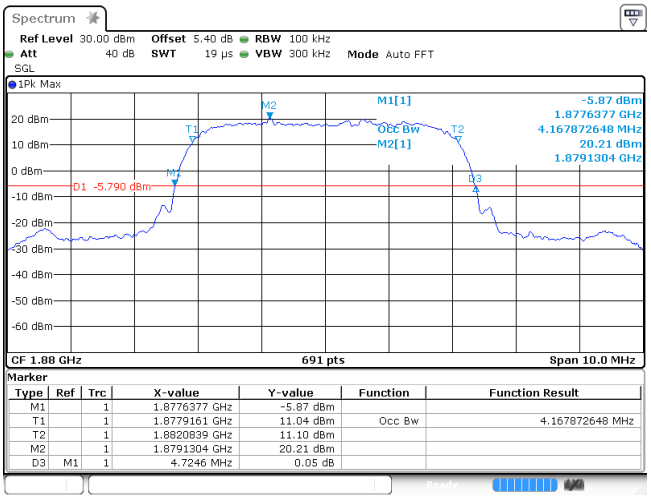
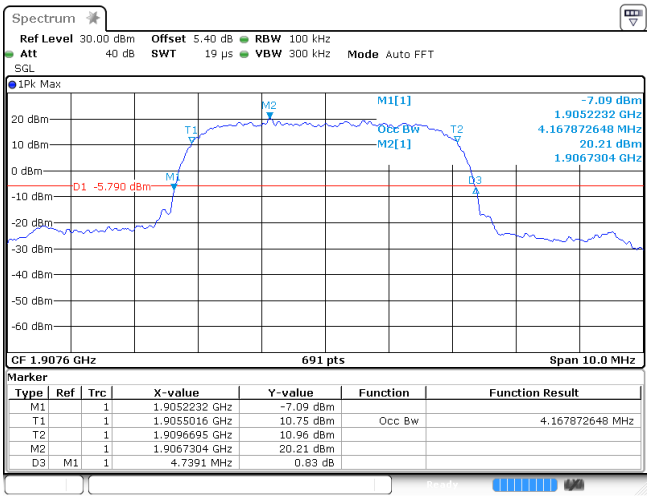


Band II_9400



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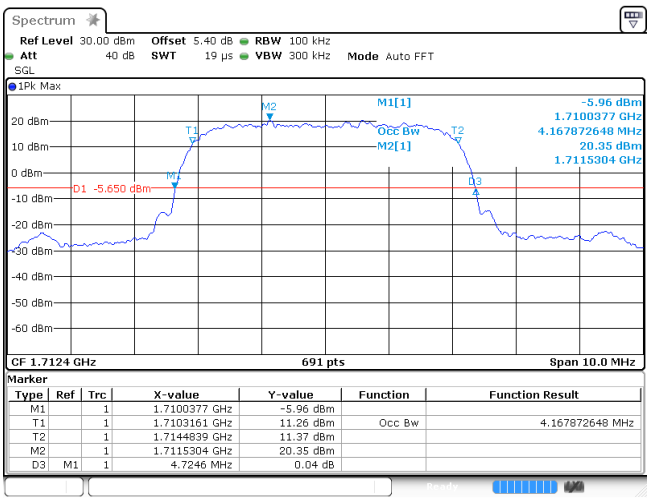
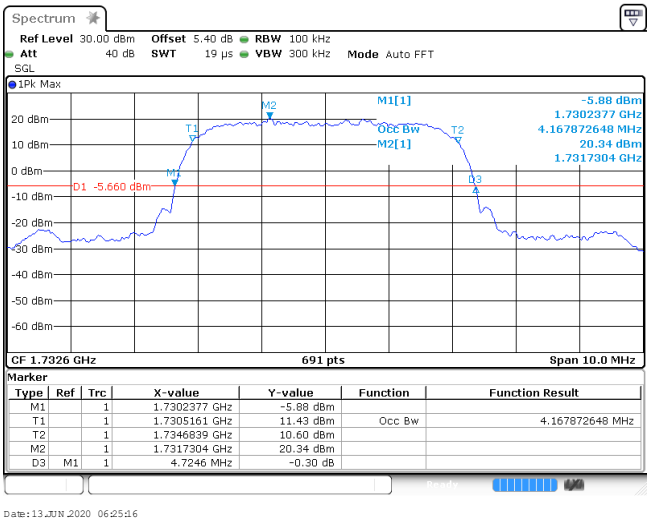


Band IV_1312



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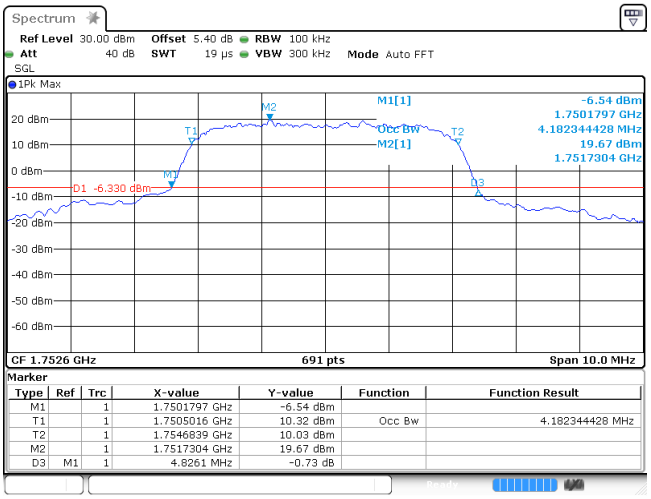
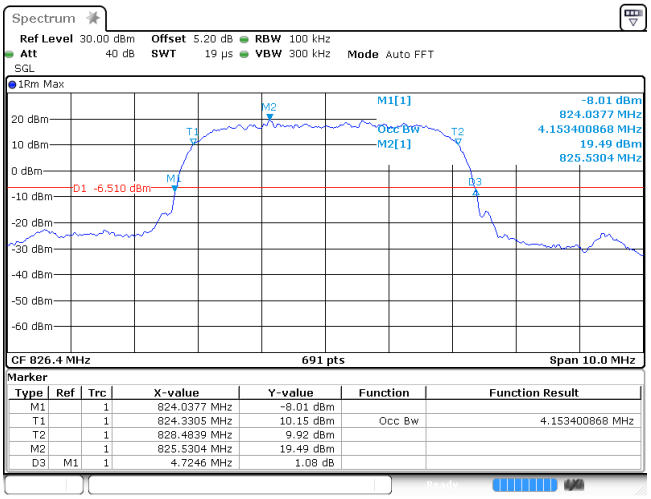


Band IV_1513



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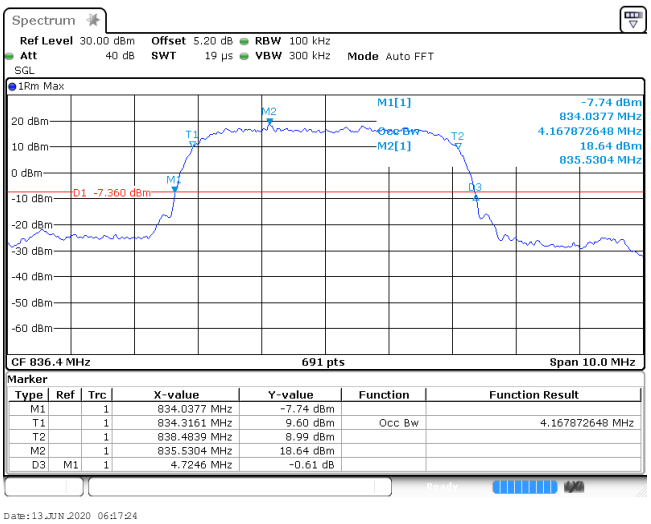
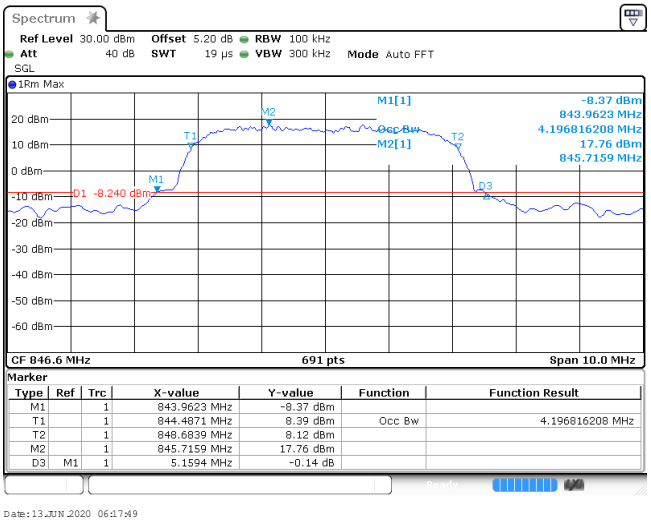


Band V_4182



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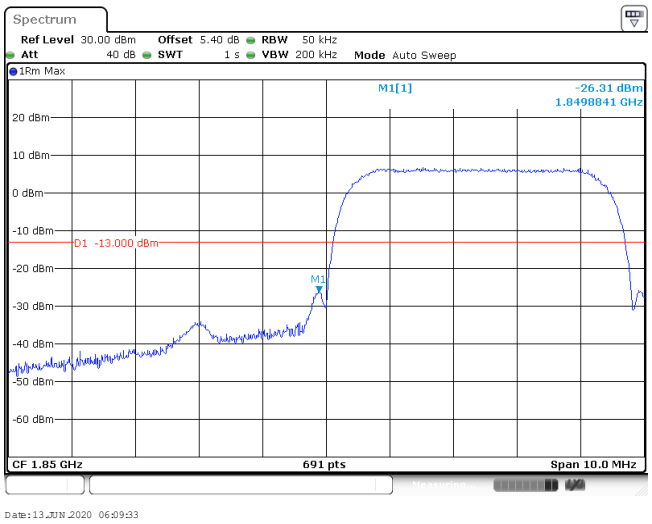
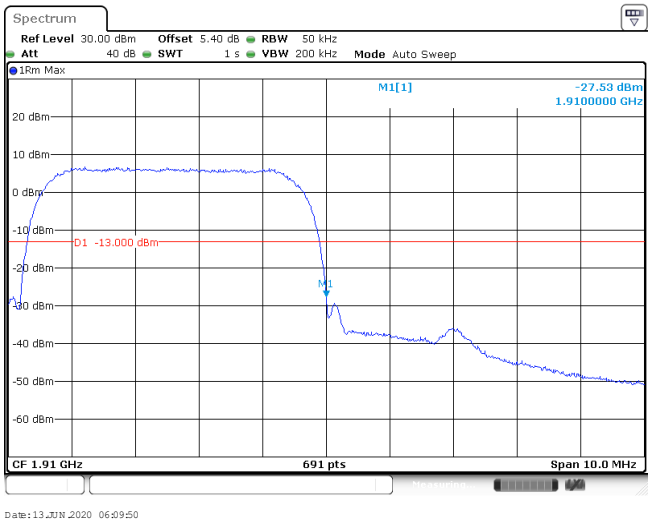
5. Band Edge Compliance

5.1. Test Plots



Band II_9262



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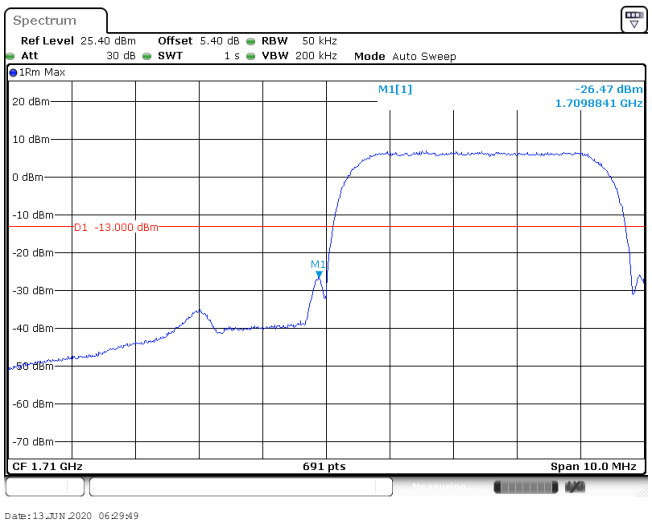
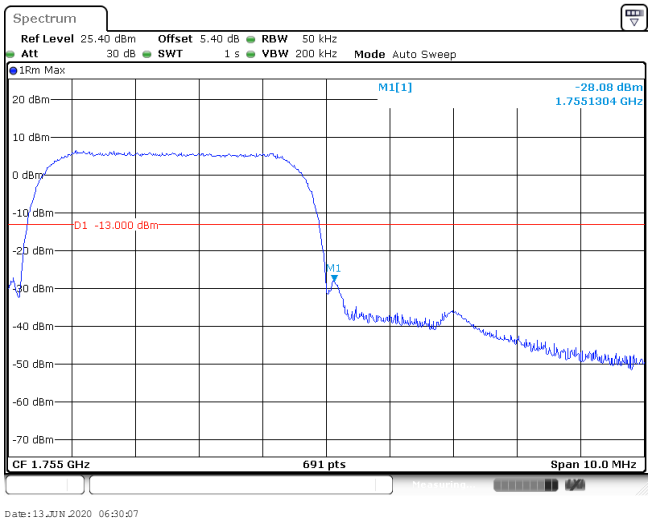


Band IV_1312



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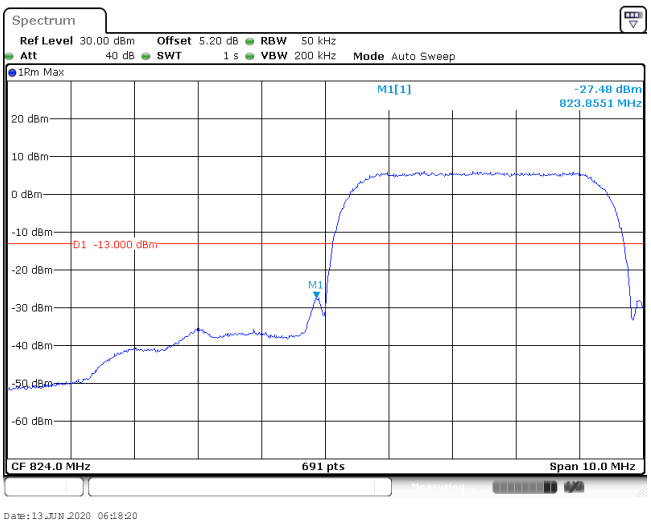
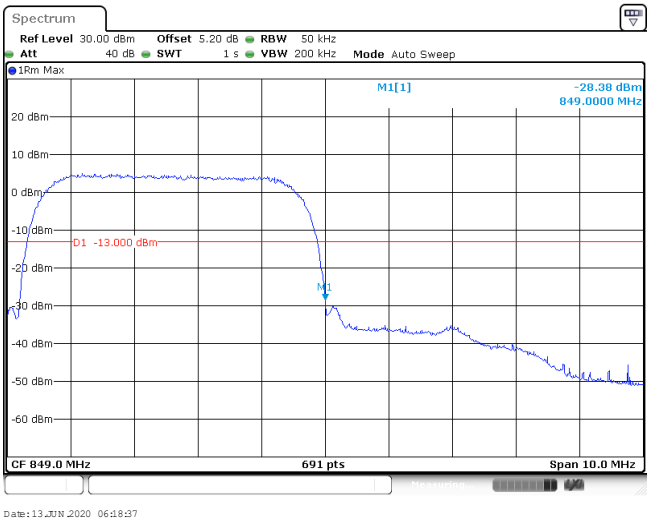


Band V_4132



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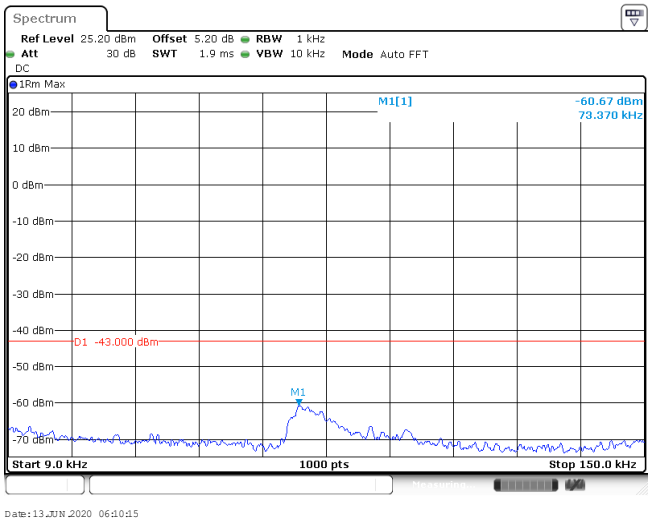
6. Spurious Emission at Antenna Terminal

Remark1: 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.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots



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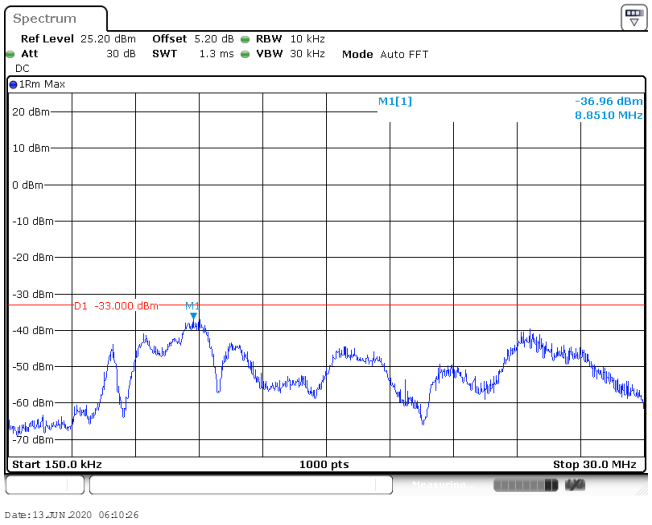

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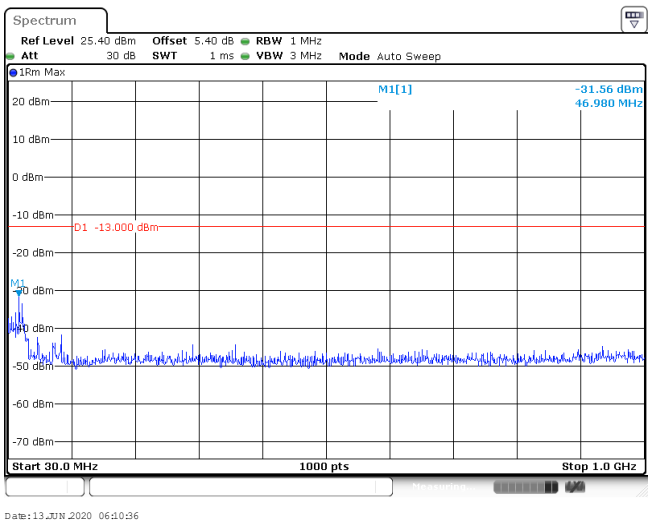

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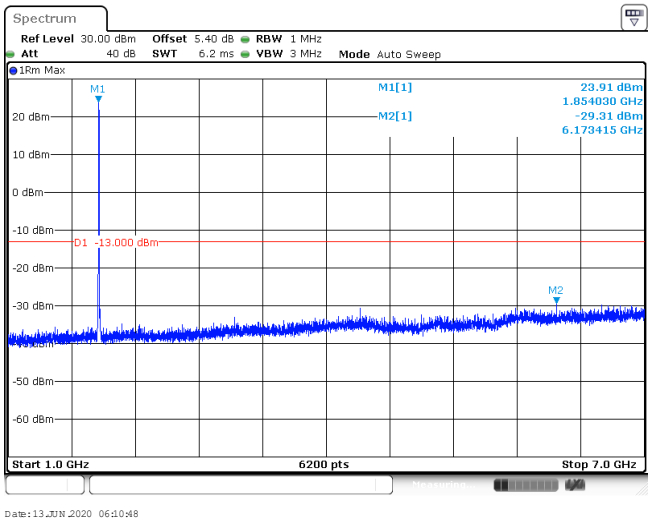

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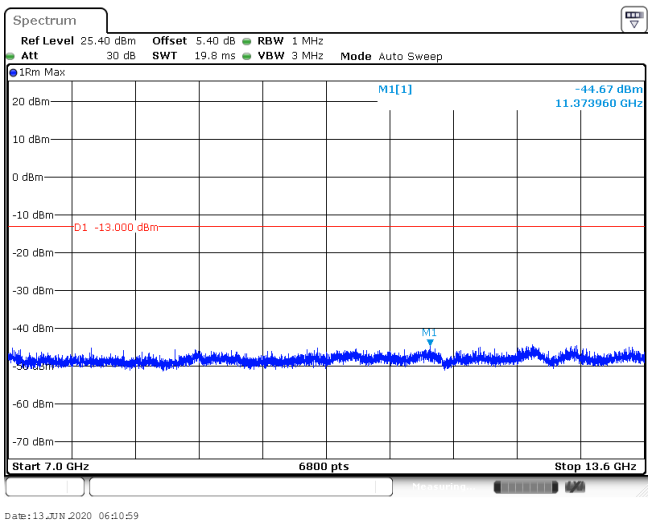

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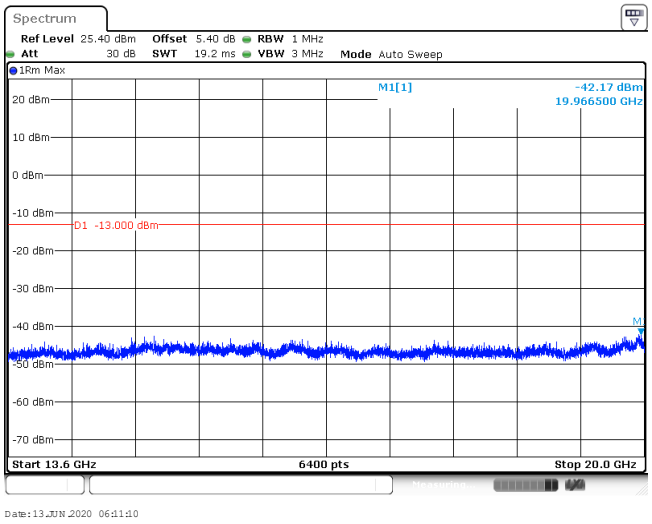

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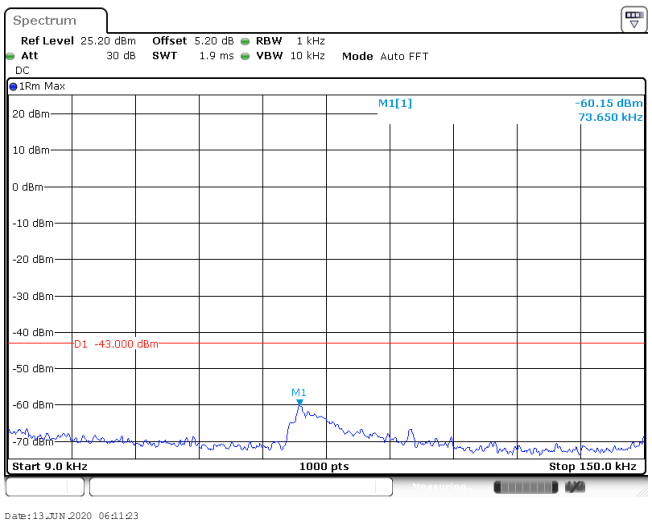

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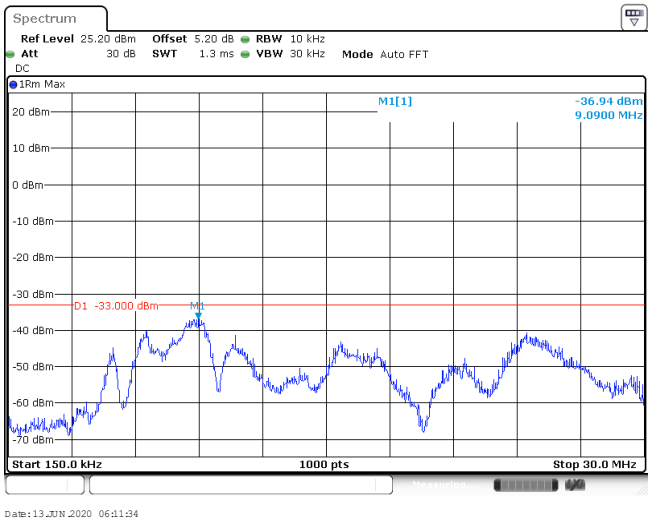

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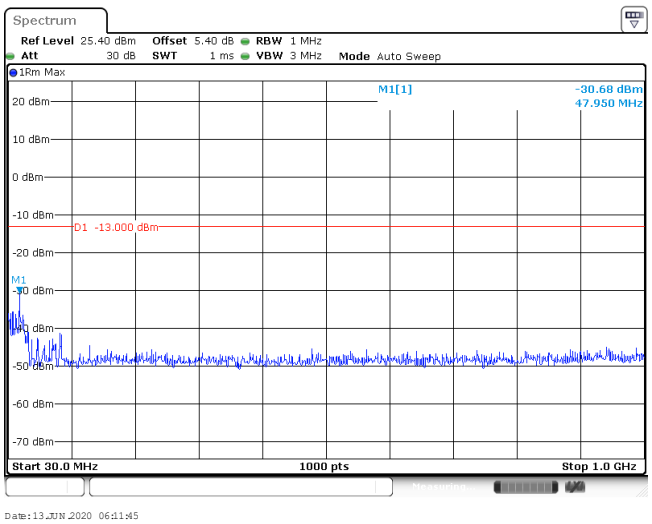

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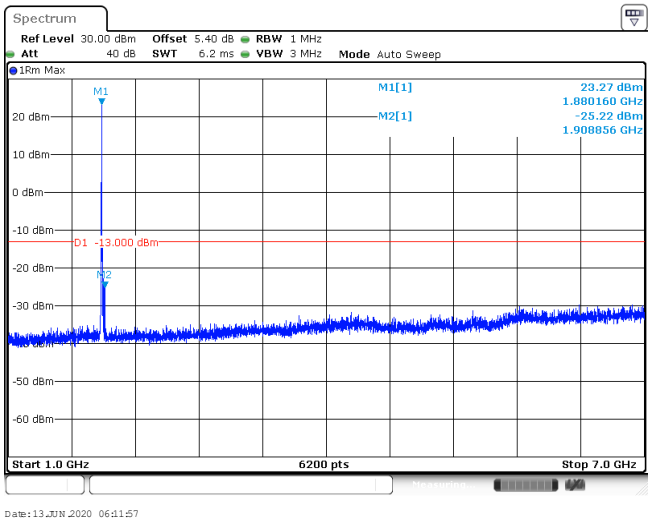

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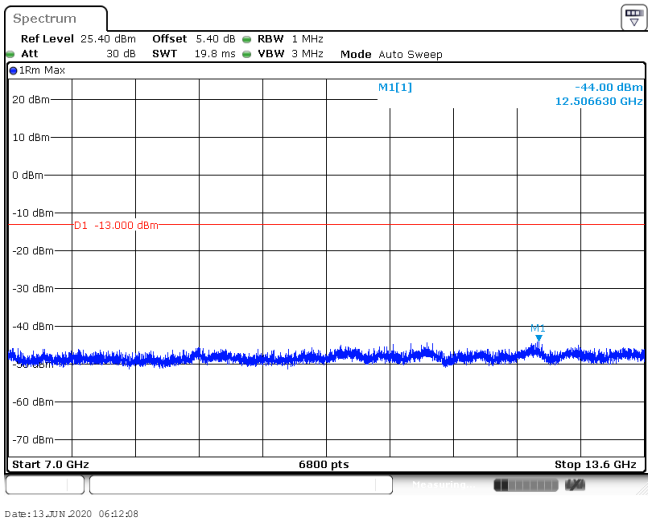

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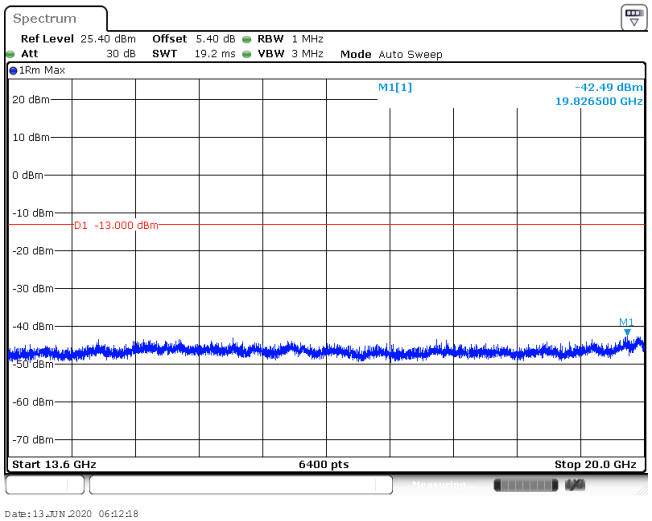

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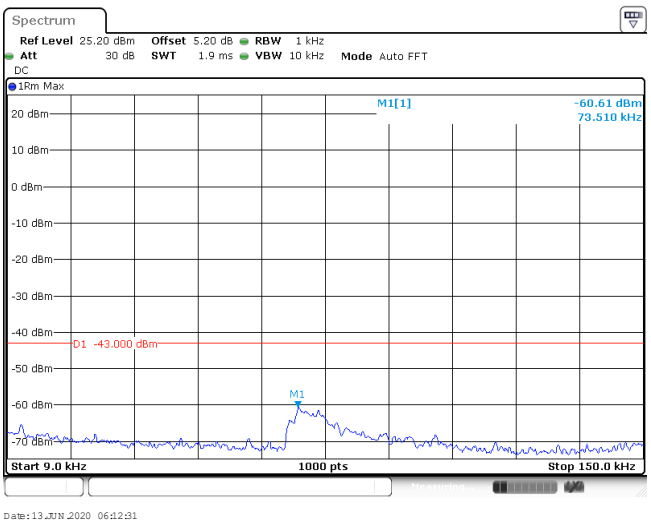

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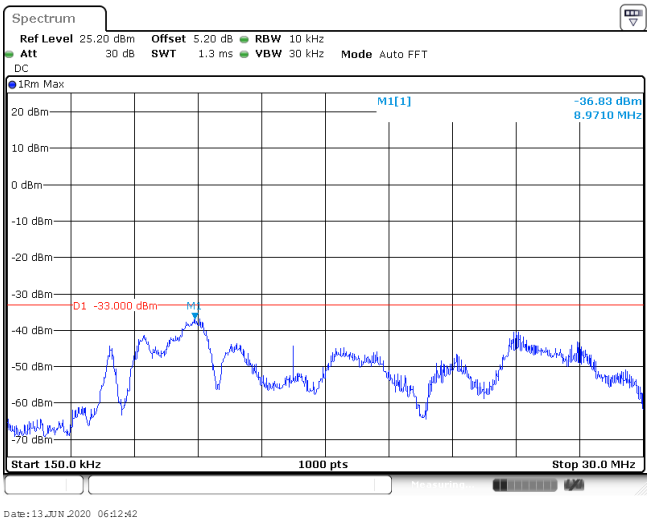

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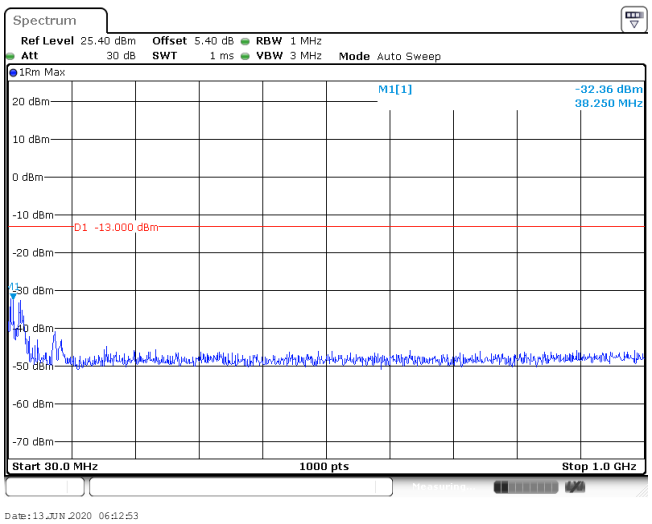

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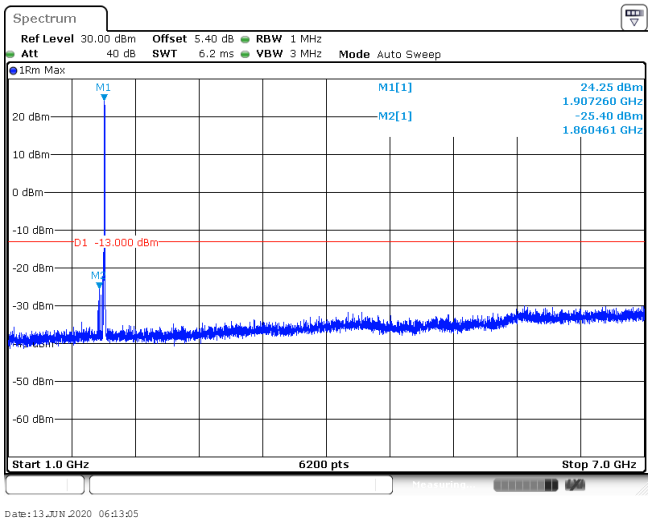

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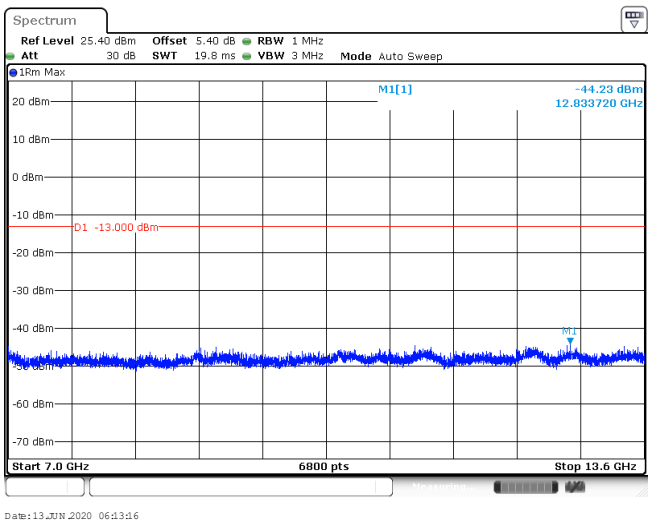

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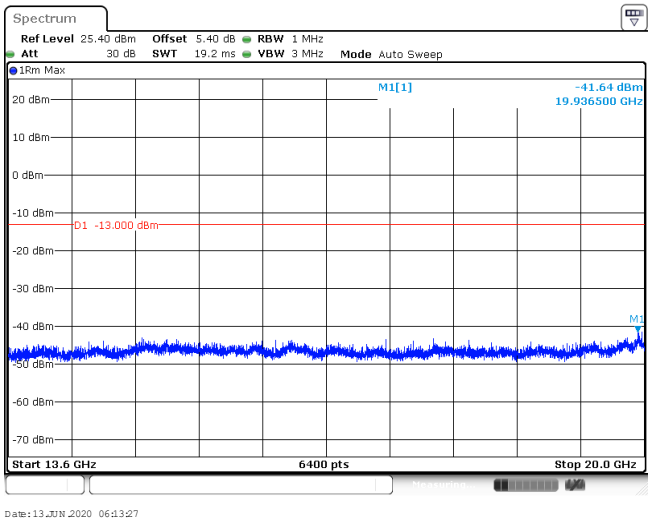

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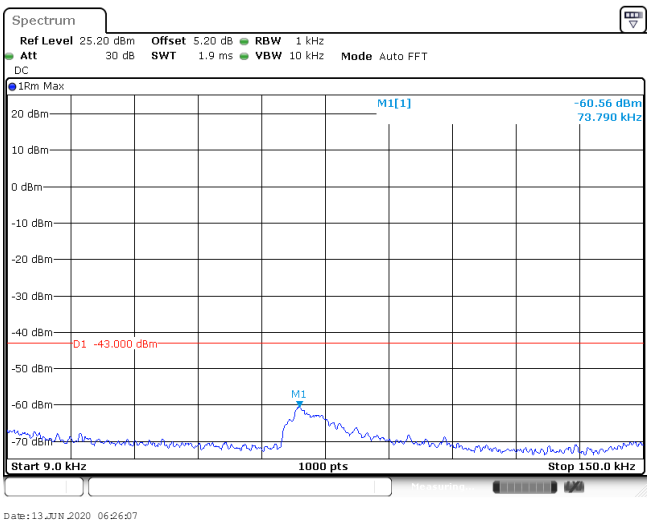

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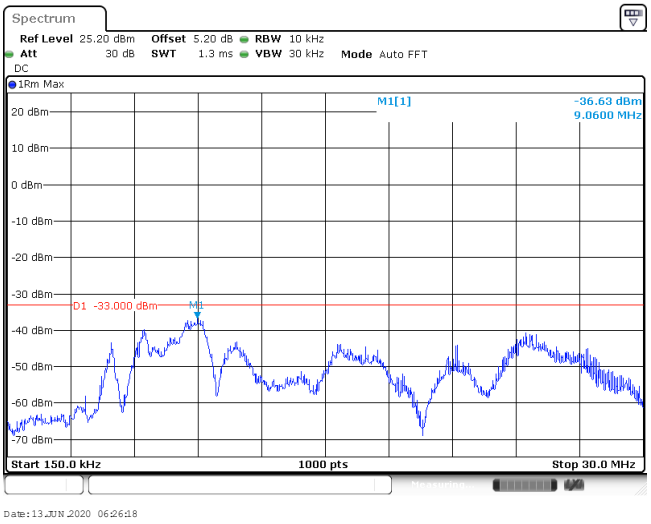

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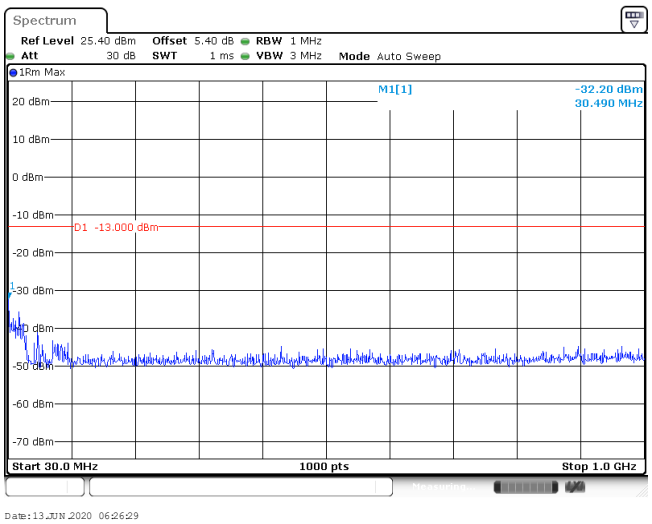

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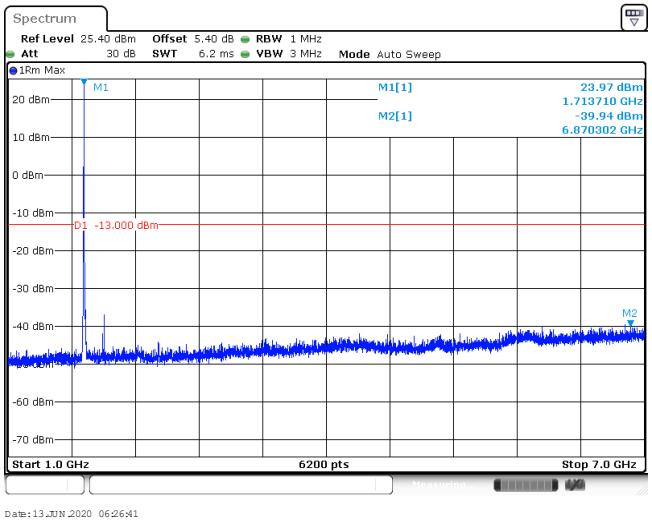

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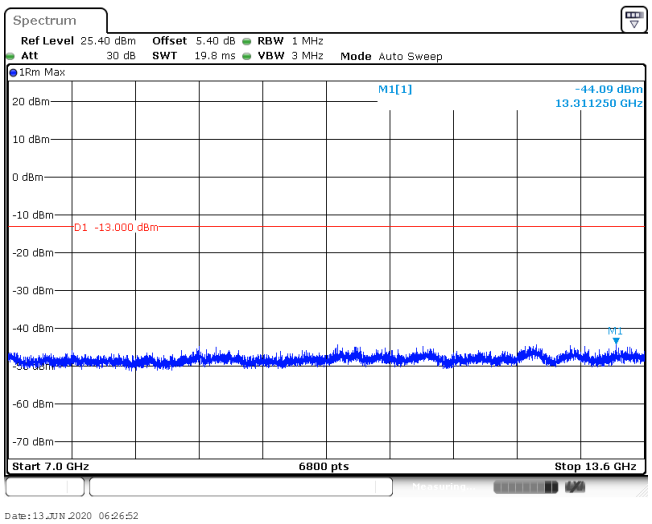

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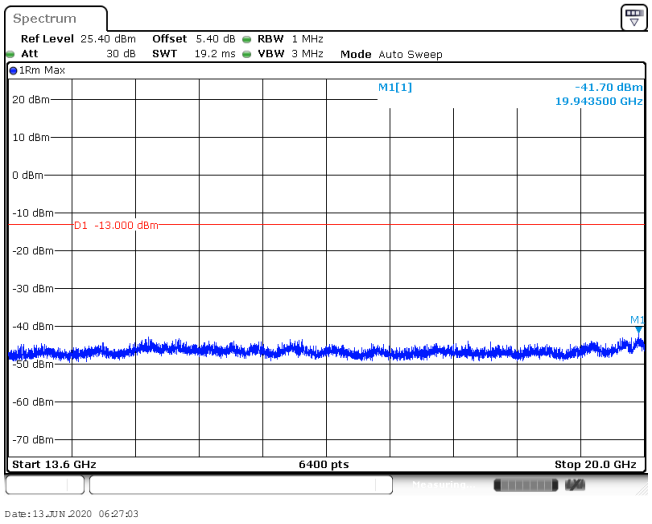

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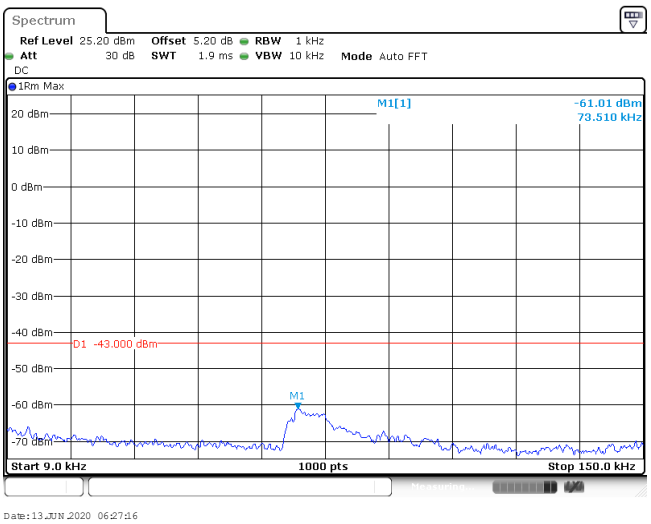

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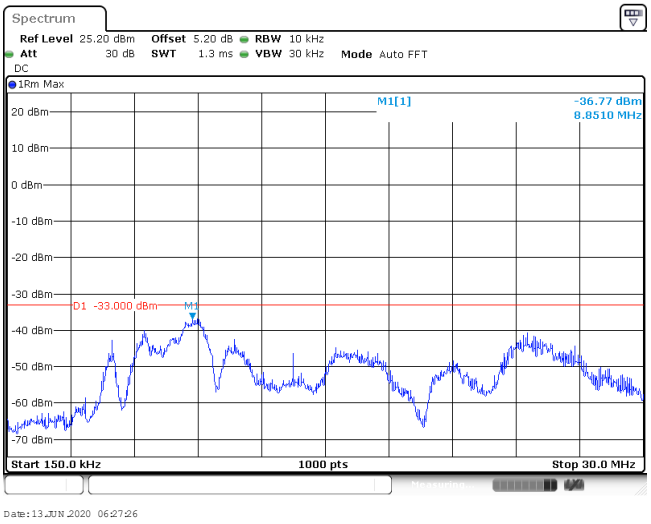

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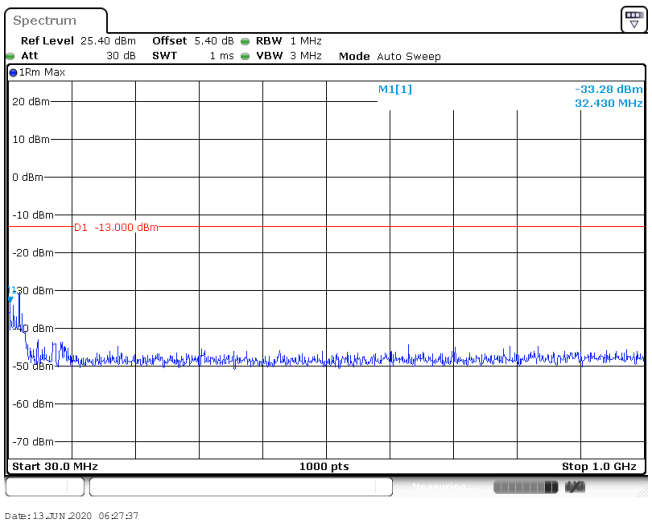

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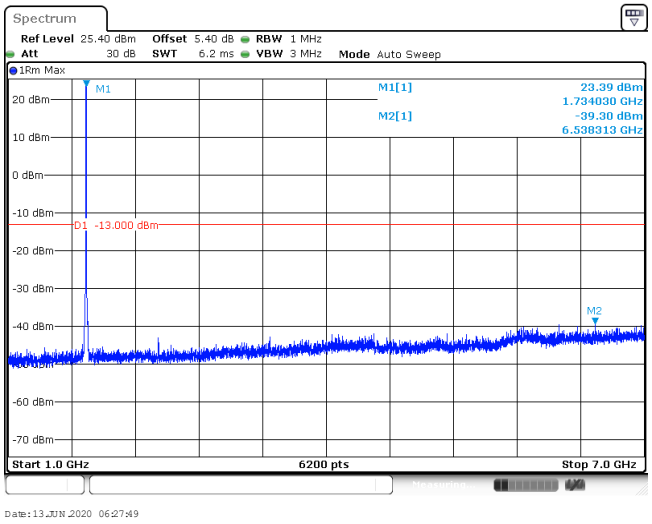

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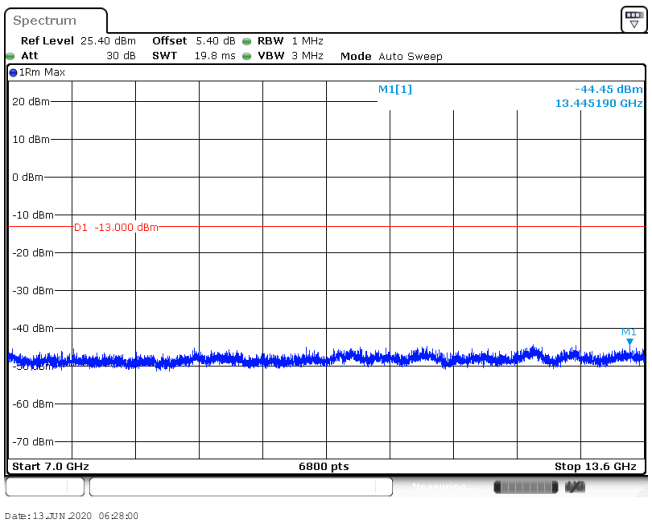

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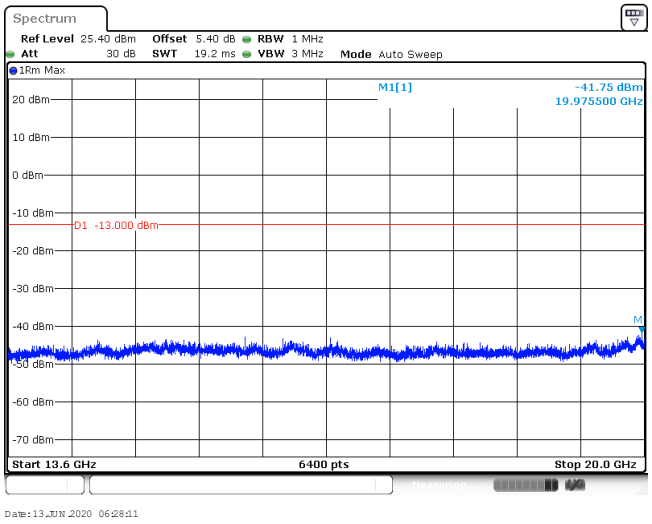

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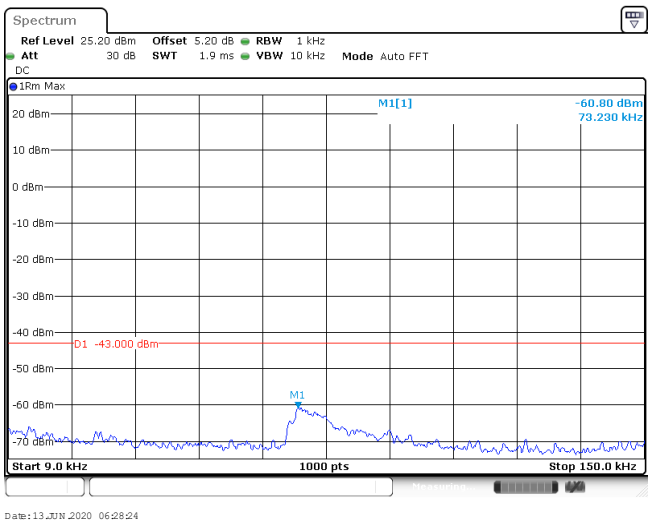

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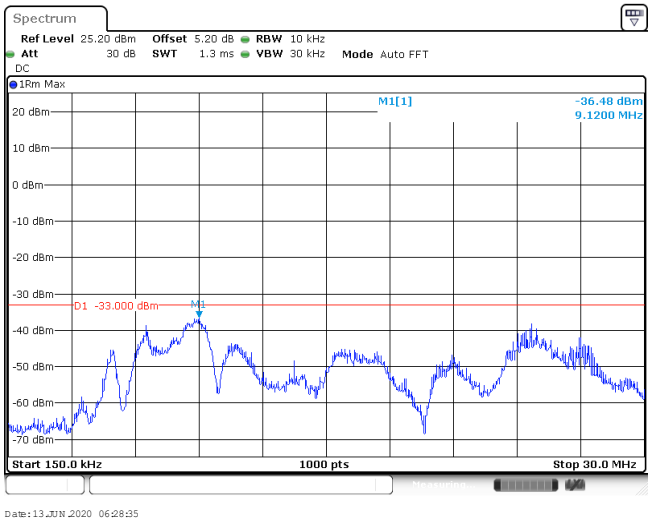

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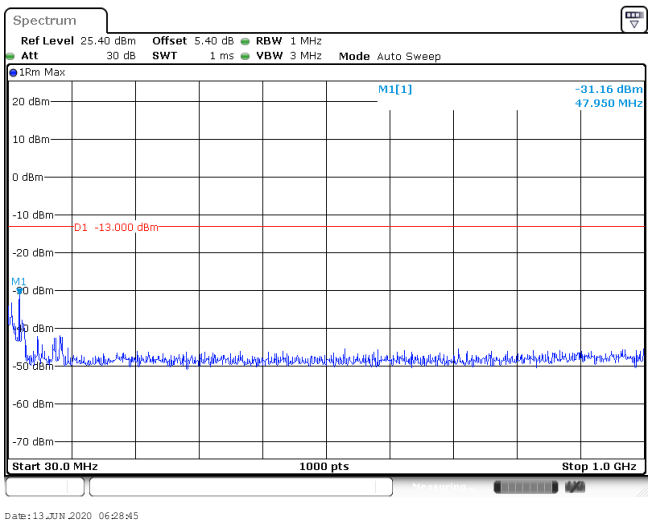

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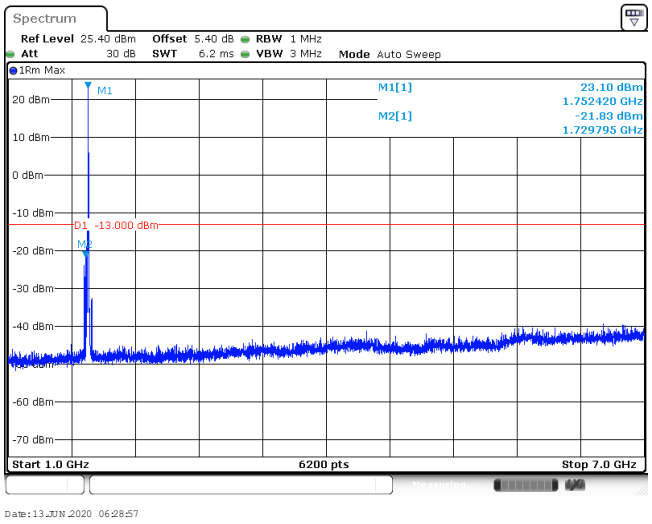

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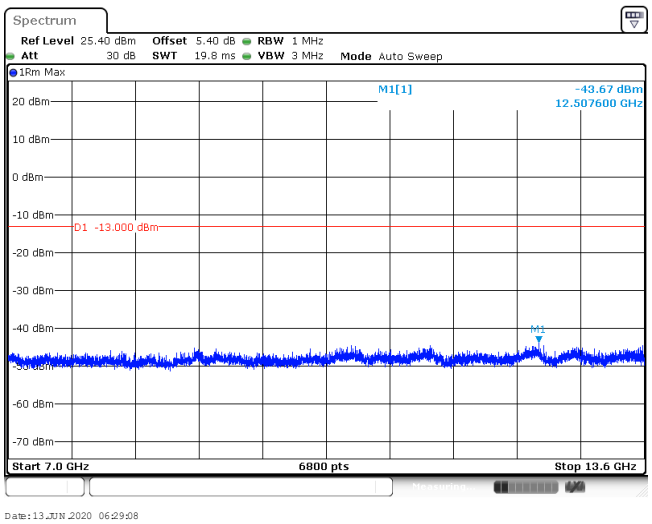

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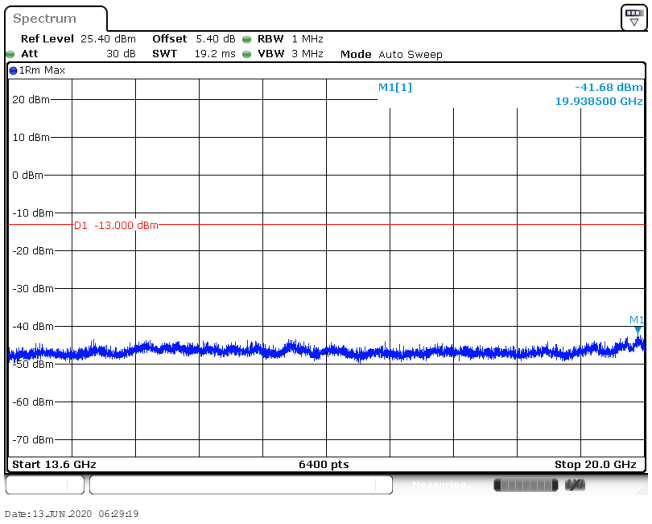

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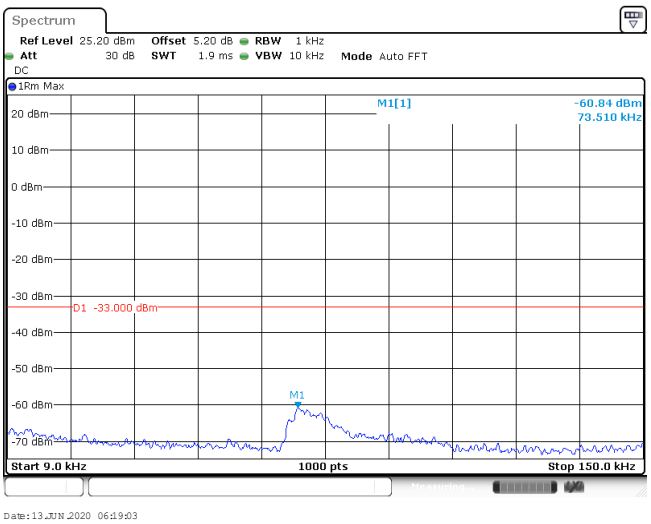

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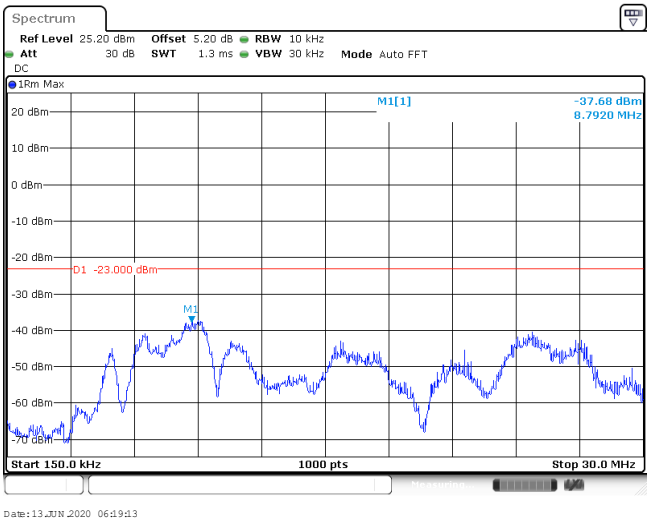

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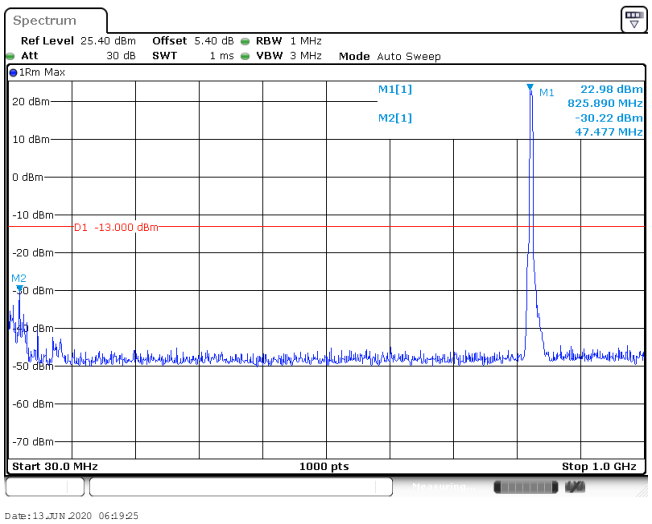

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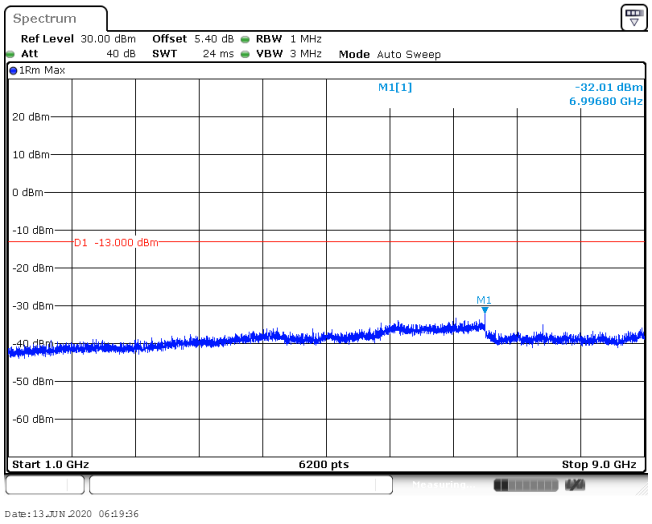

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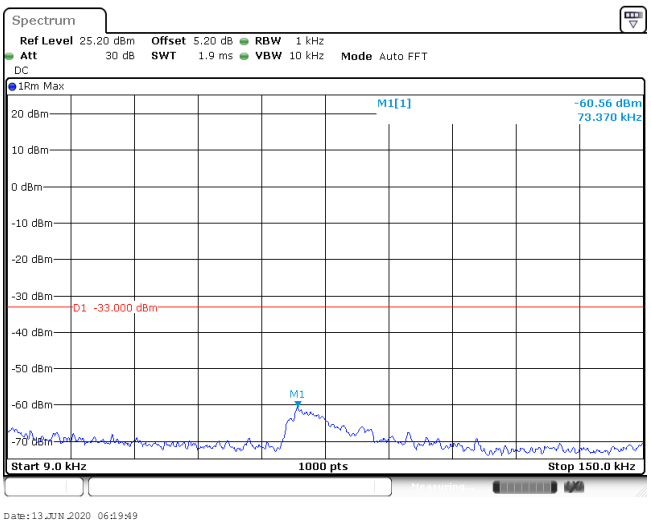

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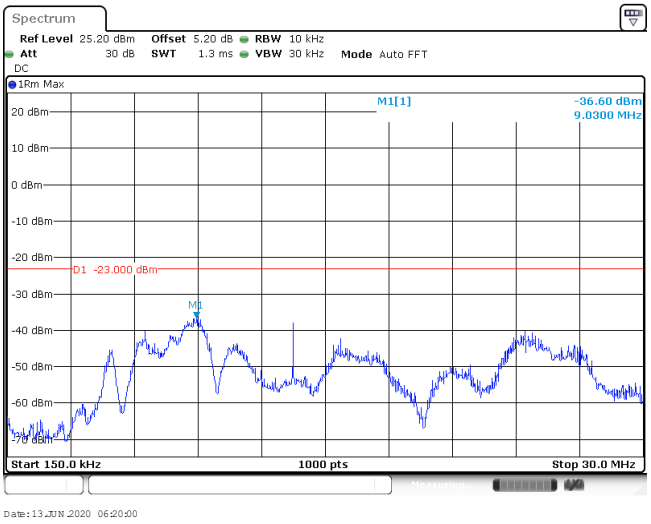

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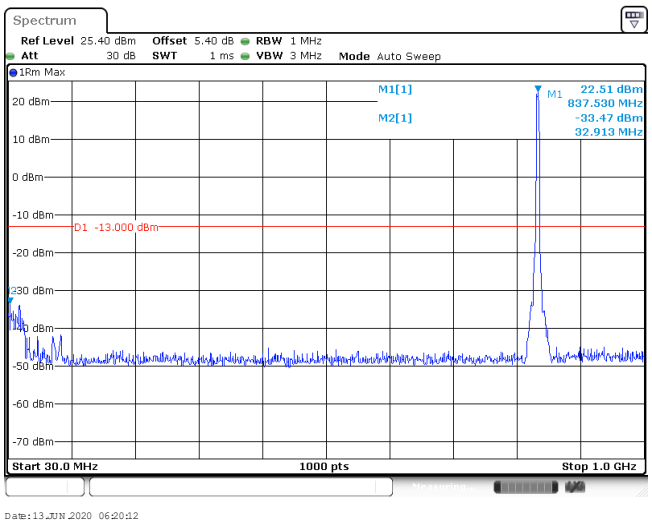

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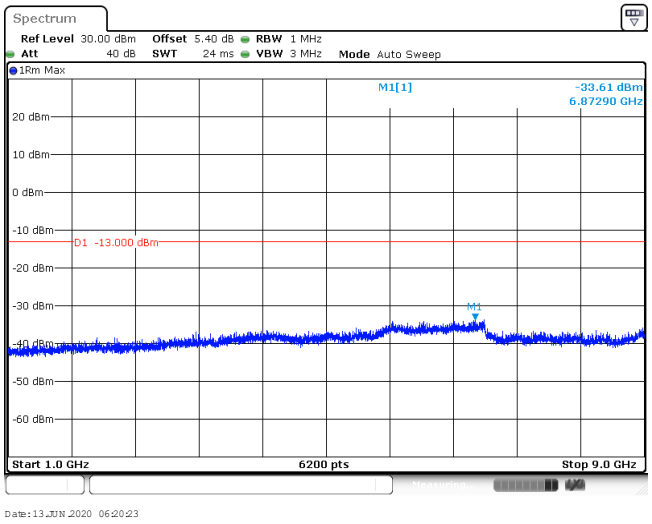

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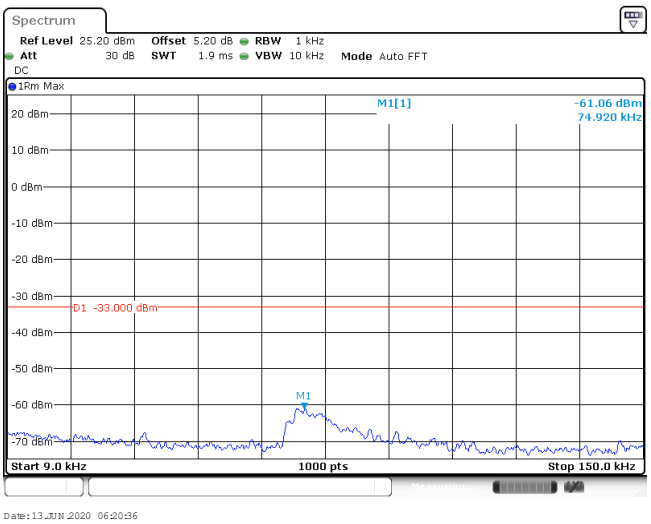

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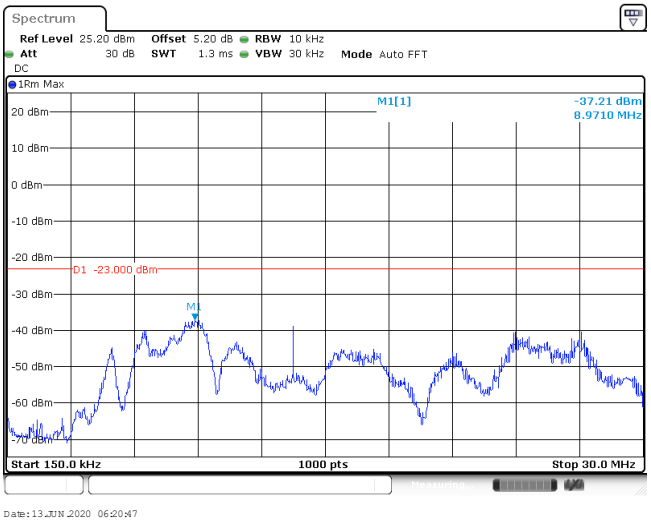

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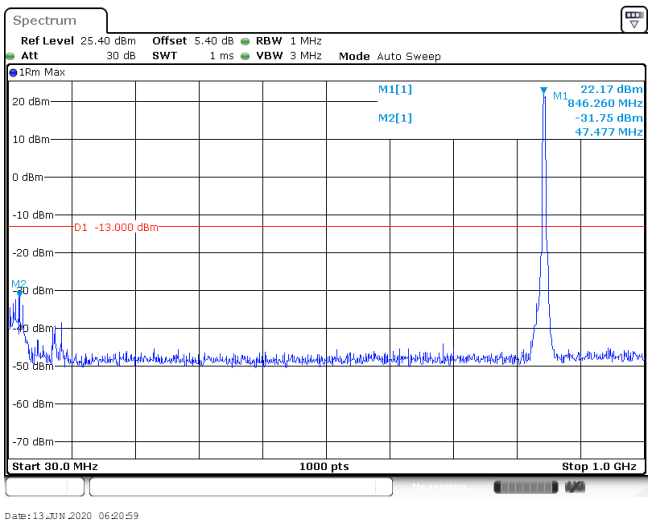

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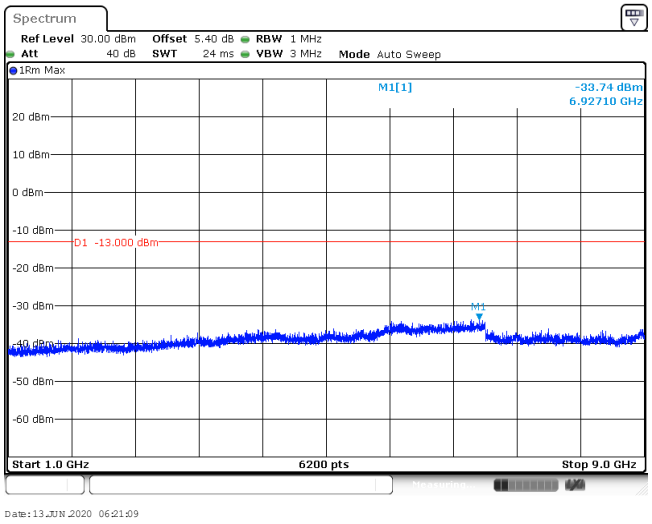

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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1.Test Mode =WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.7266	-65.07	-13.00	52.07	Vertical
700.0610	-63.30	-13.00	50.30	Vertical
2697.5395	-36.83	-13.00	23.83	Vertical
7462.1487	-56.23	-13.00	43.23	Vertical
14715.3905	-47.98	-13.00	34.98	Vertical
17998.5000	-40.81	-13.00	27.81	Vertical
43.7747	-64.59	-13.00	51.59	Horizontal
235.6988	-68.16	-13.00	55.16	Horizontal
2701.5403	-35.64	-13.00	22.64	Horizontal
7480.1493	-56.54	-13.00	43.54	Horizontal
16401.4467	-43.88	-13.00	30.88	Horizontal
17998.5000	-45.35	-13.00	32.35	Horizontal

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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1745	-65.14	-13.00	52.14	Vertical
600.7280	-64.12	-13.00	51.12	Vertical
2689.5379	-36.89	-13.00	23.89	Vertical
7951.6651	-55.97	-13.00	42.97	Vertical
14461.8821	-48.12	-13.00	35.12	Vertical
17998.5000	-40.56	-13.00	27.56	Vertical
44.7932	-63.93	-13.00	50.93	Horizontal
232.3036	-67.51	-13.00	54.51	Horizontal
2695.1390	-35.70	-13.00	22.70	Horizontal
7474.1491	-56.55	-13.00	43.55	Horizontal
16403.9468	-44.07	-13.00	31.07	Horizontal
17997.4999	-45.72	-13.00	32.72	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1745	-65.23	-13.00	52.23	Vertical
599.3700	-63.32	-13.00	50.32	Vertical
2577.5155	-34.38	-13.00	21.38	Vertical
7348.6450	-56.46	-13.00	43.46	Vertical
14481.8827	-47.90	-13.00	34.90	Vertical
17999.0000	-40.03	-13.00	27.03	Vertical
45.4723	-64.25	-13.00	51.25	Horizontal
236.0868	-67.86	-13.00	54.86	Horizontal
2697.9396	-35.53	-13.00	22.53	Horizontal
3817.0272	-58.39	-13.00	45.39	Horizontal
16390.4463	-44.19	-13.00	31.19	Horizontal
17999.0000	-45.63	-13.00	32.63	Horizontal

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7.2. Test Band = WCDMA Band IV

7.2.1.Test Mode =WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
53.5237	-69.82	-13.00	56.82	Vertical
109.4470	-62.42	-13.00	49.42	Vertical
487.2324	-64.11	-13.00	51.11	Vertical
2703.9408	-32.15	-13.00	19.15	Vertical
7433.1478	-53.26	-13.00	40.26	Vertical
17988.9996	-33.65	-13.00	20.65	Vertical
41.9316	-62.71	-13.00	49.71	Horizontal
237.9784	-65.85	-13.00	52.85	Horizontal
583.8007	-61.58	-13.00	48.58	Horizontal
2699.9400	-30.99	-13.00	17.99	Horizontal
7465.6489	-52.91	-13.00	39.91	Horizontal
16398.9466	-35.82	-13.00	22.82	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.2255	-71.15	-13.00	58.15	Vertical
114.6367	-62.51	-13.00	49.51	Vertical
435.8683	-65.32	-13.00	52.32	Vertical
2707.1414	-32.04	-13.00	19.04	Vertical
7459.1486	-53.10	-13.00	40.10	Vertical
17991.9997	-34.17	-13.00	21.17	Vertical
42.0286	-62.64	-13.00	49.64	Horizontal
236.3293	-64.57	-13.00	51.57	Horizontal
460.6045	-64.78	-13.00	51.78	Horizontal
2705.9412	-30.88	-13.00	17.88	Horizontal
9307.7103	-49.98	-13.00	36.98	Horizontal
16380.9460	-35.35	-13.00	22.35	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.8746	-70.67	-13.00	57.67	Vertical
110.3200	-62.57	-13.00	49.57	Vertical
477.1924	-64.23	-13.00	51.23	Vertical
3848.0283	-61.05	-13.00	48.05	Vertical
7449.6483	-53.38	-13.00	40.38	Vertical
15189.4063	-42.18	-13.00	29.18	Vertical
45.6663	-61.74	-13.00	48.74	Horizontal
247.7759	-65.09	-13.00	52.09	Horizontal
609.7495	-61.26	-13.00	48.26	Horizontal
2699.5399	-30.86	-13.00	17.86	Horizontal
7460.1487	-53.39	-13.00	40.39	Horizontal
16388.9463	-35.58	-13.00	22.58	Horizontal

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7.3. Test Band = WCDMA Band V

7.3.1.Test Mode =WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.5925	-65.36	-13.00	52.36	Vertical
597.7209	-63.75	-13.00	50.75	Vertical
2704.3409	-52.02	-13.00	39.02	Vertical
7258.1419	-57.42	-13.00	44.42	Vertical
14459.3820	-47.92	-13.00	34.92	Vertical
17911.4971	-41.61	-13.00	28.61	Vertical
41.3496	-64.66	-13.00	51.66	Horizontal
248.0669	-68.61	-13.00	55.61	Horizontal
1650.5301	-60.54	-13.00	47.54	Horizontal
2698.7397	-50.94	-13.00	37.94	Horizontal
7480.1493	-56.27	-13.00	43.27	Horizontal
16391.9464	-44.09	-13.00	31.09	Horizontal

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7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.2344	-65.73	-13.00	52.73	Vertical
582.1031	-65.12	-13.00	52.12	Vertical
2701.1402	-52.10	-13.00	39.10	Vertical
7459.1486	-56.05	-13.00	43.05	Vertical
14489.8830	-47.87	-13.00	34.87	Vertical
17999.5000	-40.31	-13.00	27.31	Vertical
43.5807	-64.20	-13.00	51.20	Horizontal
229.2480	-67.71	-13.00	54.71	Horizontal
2700.3401	-50.69	-13.00	37.69	Horizontal
7364.1455	-56.56	-13.00	43.56	Horizontal
16408.4469	-43.86	-13.00	30.86	Horizontal
17991.9997	-45.05	-13.00	32.05	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.5625	-65.72	-13.00	52.72	Vertical
607.0334	-63.89	-13.00	50.89	Vertical
2861.9724	-51.96	-13.00	38.96	Vertical
7359.1453	-55.93	-13.00	42.93	Vertical
14512.3837	-47.83	-13.00	34.83	Vertical
17995.9999	-40.57	-13.00	27.57	Vertical
41.3011	-64.54	-13.00	51.54	Horizontal
234.2922	-68.18	-13.00	55.18	Horizontal
2693.9388	-50.74	-13.00	37.74	Horizontal
7442.6481	-56.30	-13.00	43.30	Horizontal
16388.9463	-43.59	-13.00	30.59	Horizontal
17996.9999	-44.89	-13.00	31.89	Horizontal

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1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-5.39	-0.002908	2.5	PASS
Band II	9262	VN	TN	-14.27	-0.007703	2.5	PASS
Band II	9262	VH	TN	-14.63	-0.007896	2.5	PASS
Band II	9400	VL	TN	-9.46	-0.005033	2.5	PASS
Band II	9400	VN	TN	-9.31	-0.004950	2.5	PASS
Band II	9400	VH	TN	-9.86	-0.005243	2.5	PASS
Band II	9538	VL	TN	-9.71	-0.005092	2.5	PASS
Band II	9538	VN	TN	-17.41	-0.009126	2.5	PASS
Band II	9538	VH	TN	-17.72	-0.009291	2.5	PASS
Band IV	1312	VL	TN	-12.07	-0.007051	2.5	PASS
Band IV	1312	VN	TN	-13.07	-0.007631	2.5	PASS
Band IV	1312	VH	TN	-16.16	-0.009436	2.5	PASS
Band IV	1413	VL	TN	-8.32	-0.004801	2.5	PASS
Band IV	1413	VN	TN	-10.65	-0.006147	2.5	PASS
Band IV	1413	VH	TN	-8.78	-0.005069	2.5	PASS
Band IV	1513	VL	TN	-13.40	-0.007644	2.5	PASS
Band IV	1513	VN	TN	-6.64	-0.003787	2.5	PASS
Band IV	1513	VH	TN	-10.34	-0.005901	2.5	PASS
Band V	4132	VL	TN	-11.09	-0.013424	2.5	PASS
Band V	4132	VN	TN	-13.07	-0.015821	2.5	PASS
Band V	4132	VH	TN	-5.58	-0.006751	2.5	PASS
Band V	4182	VL	TN	-8.37	-0.010005	2.5	PASS
Band V	4182	VN	TN	-7.72	-0.009236	2.5	PASS
Band V	4182	VH	TN	-7.39	-0.008834	2.5	PASS
Band V	4233	VL	TN	-8.43	-0.009961	2.5	PASS
Band V	4233	VN	TN	-11.21	-0.013239	2.5	PASS
Band V	4233	VH	TN	-9.53	-0.011262	2.5	PASS

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8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-13.30	-0.007182	2.5	PASS
Band II	9262	VN	-20	-14.04	-0.007580	2.5	PASS
Band II	9262	VN	-10	-14.05	-0.007583	2.5	PASS
Band II	9262	VN	0	-11.57	-0.006244	2.5	PASS
Band II	9262	VN	10	-13.88	-0.007495	2.5	PASS
Band II	9262	VN	20	-11.63	-0.006278	2.5	PASS
Band II	9262	VN	30	-12.86	-0.006943	2.5	PASS
Band II	9262	VN	40	-12.27	-0.006622	2.5	PASS
Band II	9262	VN	50	-14.83	-0.008008	2.5	PASS
Band II	9400	VN	-30	-5.44	-0.002895	2.5	PASS
Band II	9400	VN	-20	-10.55	-0.005612	2.5	PASS
Band II	9400	VN	-10	-7.09	-0.003770	2.5	PASS
Band II	9400	VN	0	-10.53	-0.005600	2.5	PASS
Band II	9400	VN	10	-8.59	-0.004569	2.5	PASS
Band II	9400	VN	20	-6.92	-0.003683	2.5	PASS
Band II	9400	VN	30	-11.70	-0.006224	2.5	PASS
Band II	9400	VN	40	-13.83	-0.007354	2.5	PASS
Band II	9400	VN	50	-17.96	-0.009553	2.5	PASS
Band II	9538	VN	-30	-16.66	-0.008733	2.5	PASS
Band II	9538	VN	-20	-7.88	-0.004132	2.5	PASS
Band II	9538	VN	-10	-15.06	-0.007893	2.5	PASS
Band II	9538	VN	0	-13.95	-0.007312	2.5	PASS
Band II	9538	VN	10	-12.05	-0.006318	2.5	PASS
Band II	9538	VN	20	-12.67	-0.006644	2.5	PASS
Band II	9538	VN	30	-15.50	-0.008125	2.5	PASS
Band II	9538	VN	40	-14.39	-0.007544	2.5	PASS
Band II	9538	VN	50	-10.66	-0.005587	2.5	PASS
Band IV	1312	VN	-30	-13.27	-0.007748	2.5	PASS
Band IV	1312	VN	-20	-12.55	-0.007326	2.5	PASS
Band IV	1312	VN	-10	-7.84	-0.004578	2.5	PASS
Band IV	1312	VN	0	-12.42	-0.007251	2.5	PASS
Band IV	1312	VN	10	-12.50	-0.007297	2.5	PASS
Band IV	1312	VN	20	-8.28	-0.004833	2.5	PASS
Band IV	1312	VN	30	-11.62	-0.006787	2.5	PASS

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Band IV	1312	VN	40	-11.32	-0.006608	2.5	PASS
Band IV	1312	VN	50	-17.75	-0.010367	2.5	PASS
Band IV	1413	VN	-30	-5.52	-0.003187	2.5	PASS
Band IV	1413	VN	-20	-6.01	-0.003468	2.5	PASS
Band IV	1413	VN	-10	-6.02	-0.003472	2.5	PASS
Band IV	1413	VN	0	-6.27	-0.003616	2.5	PASS
Band IV	1413	VN	10	-9.21	-0.005313	2.5	PASS
Band IV	1413	VN	20	-8.25	-0.004764	2.5	PASS
Band IV	1413	VN	30	-7.20	-0.004157	2.5	PASS
Band IV	1413	VN	40	-6.49	-0.003744	2.5	PASS
Band IV	1413	VN	50	-9.52	-0.005495	2.5	PASS
Band IV	1513	VN	-30	-7.19	-0.004102	2.5	PASS
Band IV	1513	VN	-20	-5.96	-0.003400	2.5	PASS
Band IV	1513	VN	-10	-10.25	-0.005848	2.5	PASS
Band IV	1513	VN	0	-10.74	-0.006126	2.5	PASS
Band IV	1513	VN	10	-7.47	-0.004261	2.5	PASS
Band IV	1513	VN	20	-9.34	-0.005330	2.5	PASS
Band IV	1513	VN	30	-7.64	-0.004359	2.5	PASS
Band IV	1513	VN	40	-4.71	-0.002685	2.5	PASS
Band IV	1513	VN	50	-0.72	-0.000412	2.5	PASS
Band V	4132	VN	-30	-8.88	-0.010750	2.5	PASS
Band V	4132	VN	-20	-12.51	-0.015138	2.5	PASS
Band V	4132	VN	-10	-8.69	-0.010516	2.5	PASS
Band V	4132	VN	0	-9.23	-0.011174	2.5	PASS
Band V	4132	VN	10	-7.23	-0.008750	2.5	PASS
Band V	4132	VN	20	-12.58	-0.015224	2.5	PASS
Band V	4132	VN	30	-9.20	-0.011130	2.5	PASS
Band V	4132	VN	40	-11.34	-0.013727	2.5	PASS
Band V	4132	VN	50	-11.44	-0.013848	2.5	PASS
Band V	4182	VN	-30	-8.30	-0.009920	2.5	PASS
Band V	4182	VN	-20	-10.78	-0.012887	2.5	PASS
Band V	4182	VN	-10	-5.10	-0.006097	2.5	PASS
Band V	4182	VN	0	-10.14	-0.012126	2.5	PASS
Band V	4182	VN	10	-9.71	-0.011605	2.5	PASS
Band V	4182	VN	20	-10.05	-0.012015	2.5	PASS
Band V	4182	VN	30	-8.68	-0.010373	2.5	PASS
Band V	4182	VN	40	-12.12	-0.014495	2.5	PASS
Band V	4182	VN	50	-14.07	-0.016821	2.5	PASS

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Band V	4233	VN	-30	-7.91	-0.009344	2.5	PASS
Band V	4233	VN	-20	-8.40	-0.009927	2.5	PASS
Band V	4233	VN	-10	-5.39	-0.006362	2.5	PASS
Band V	4233	VN	0	-10.86	-0.012825	2.5	PASS
Band V	4233	VN	10	-11.19	-0.013222	2.5	PASS
Band V	4233	VN	20	-5.56	-0.006573	2.5	PASS
Band V	4233	VN	30	-11.15	-0.013171	2.5	PASS
Band V	4233	VN	40	-13.58	-0.016035	2.5	PASS
Band V	4233	VN	50	-6.02	-0.007114	2.5	PASS

The End

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