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	22.71	20.61	33.00	PASS
Band II	9400	22.74	20.64	33.00	PASS
Band II	9538	22.74	20.64	33.00	PASS
Band IV	4132	22.87	19.17	30.00	PASS
Band IV	4182	22.75	19.05	30.00	PASS
Band IV	4233	22.91	19.21	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	22.75	17	38.45	PASS
Band V	4182	22.66	16.91	38.45	PASS
Band V	4233	22.54	16.79	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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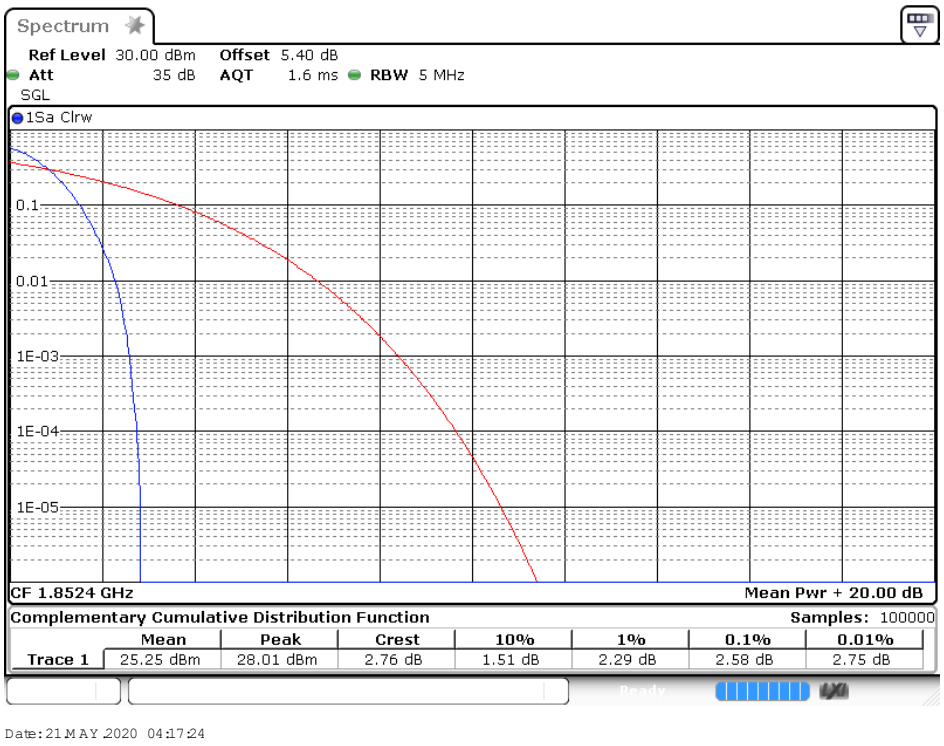
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.58	13	PASS
Band II	9400	2.96	13	PASS
Band II	9538	2.46	13	PASS
Band IV	1312	2.90	13	PASS
Band IV	1413	2.67	13	PASS
Band IV	1513	2.72	13	PASS
Band V	4132	2.52	13	PASS
Band V	4182	3.16	13	PASS
Band V	4233	2.87	13	PASS

2.2. Test Plots

Band II_9262



Band II_9400

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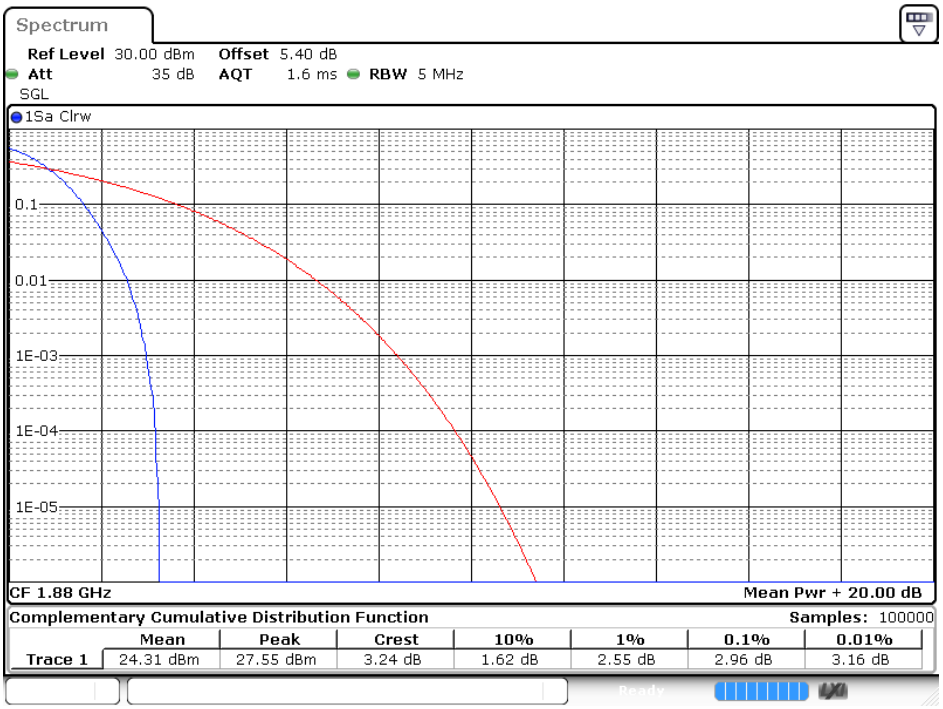

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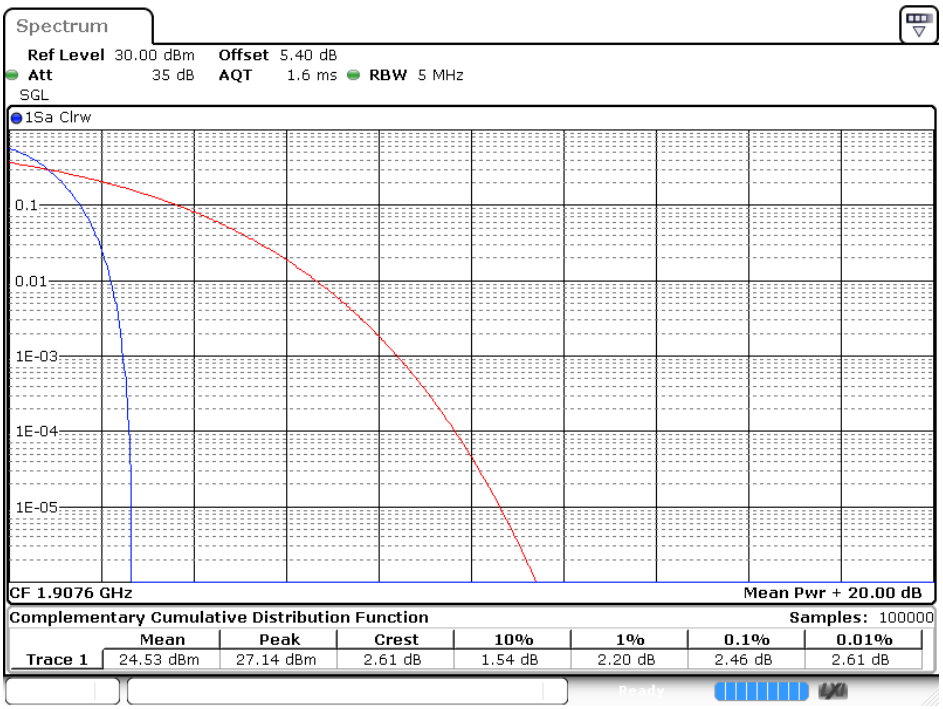
Band II_9538



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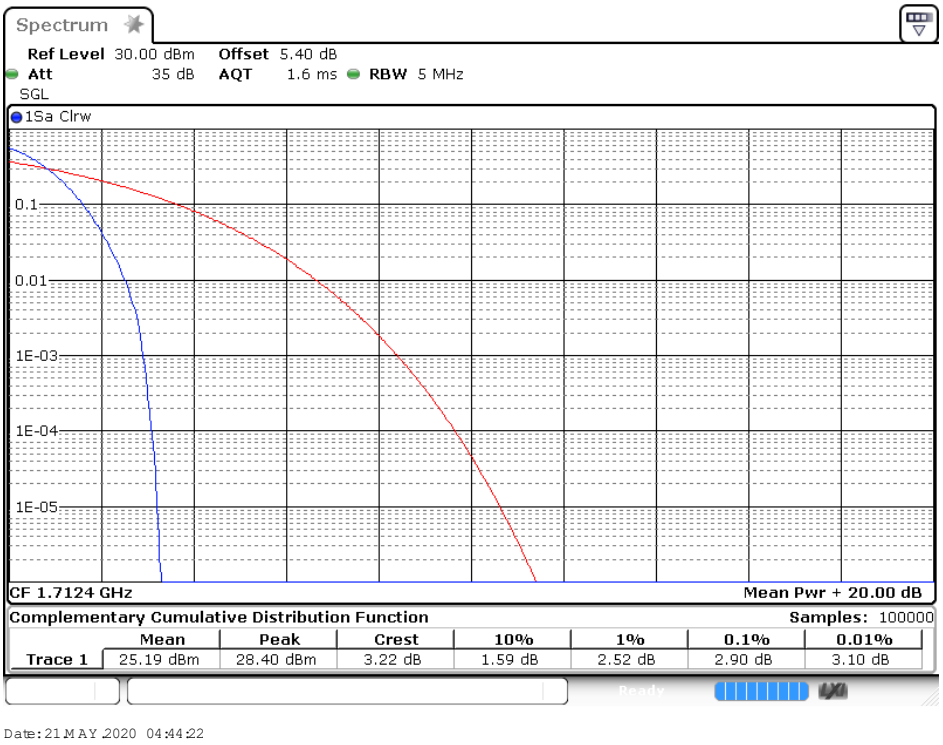
Band IV_1312



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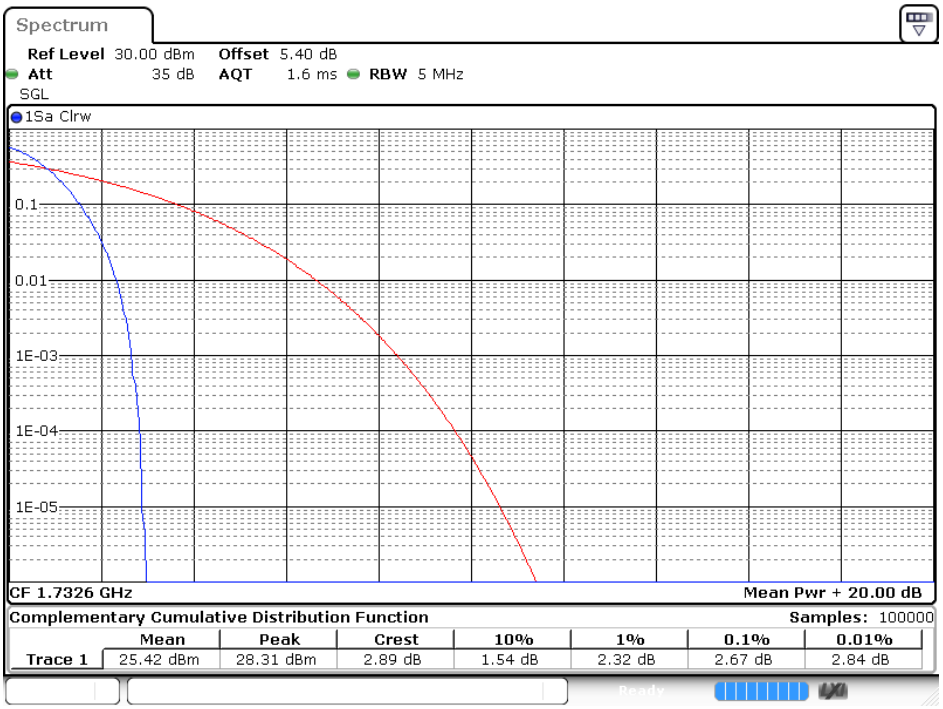

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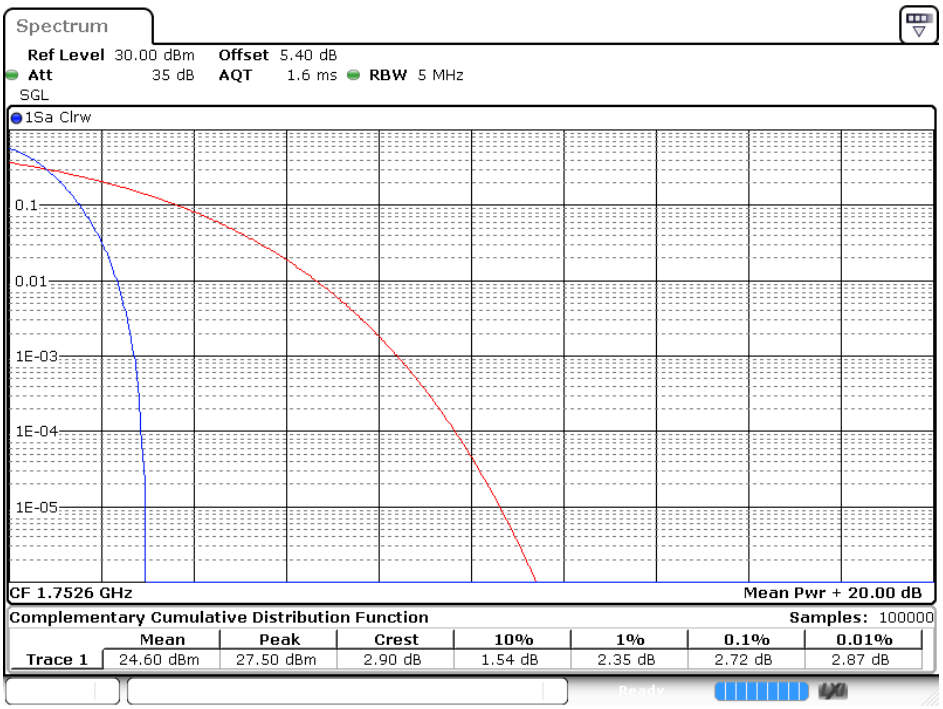

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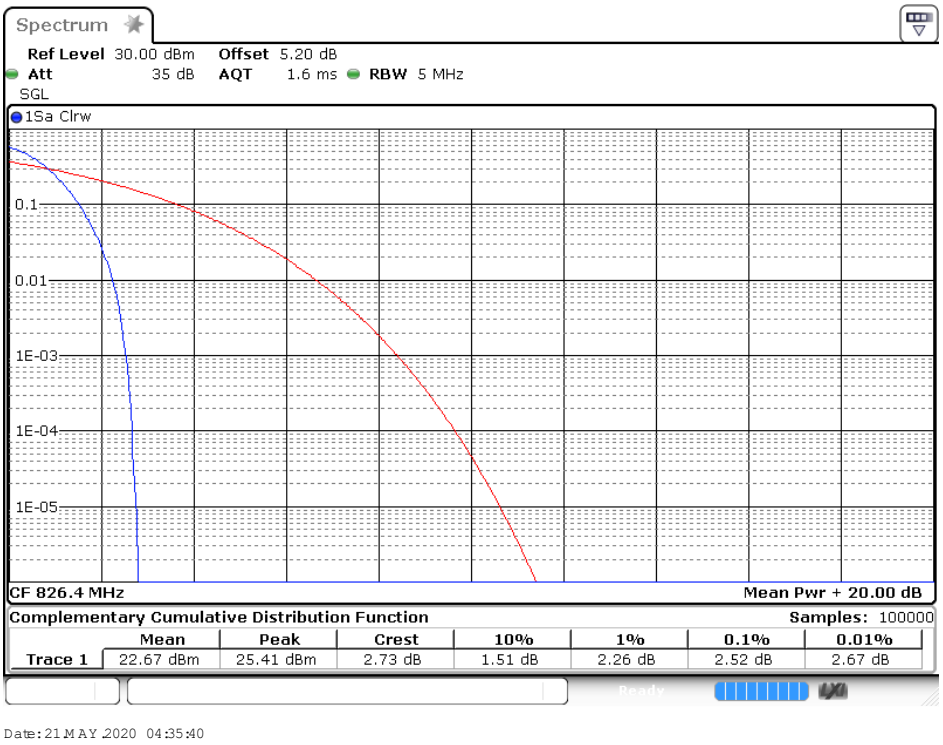
Band V_4132



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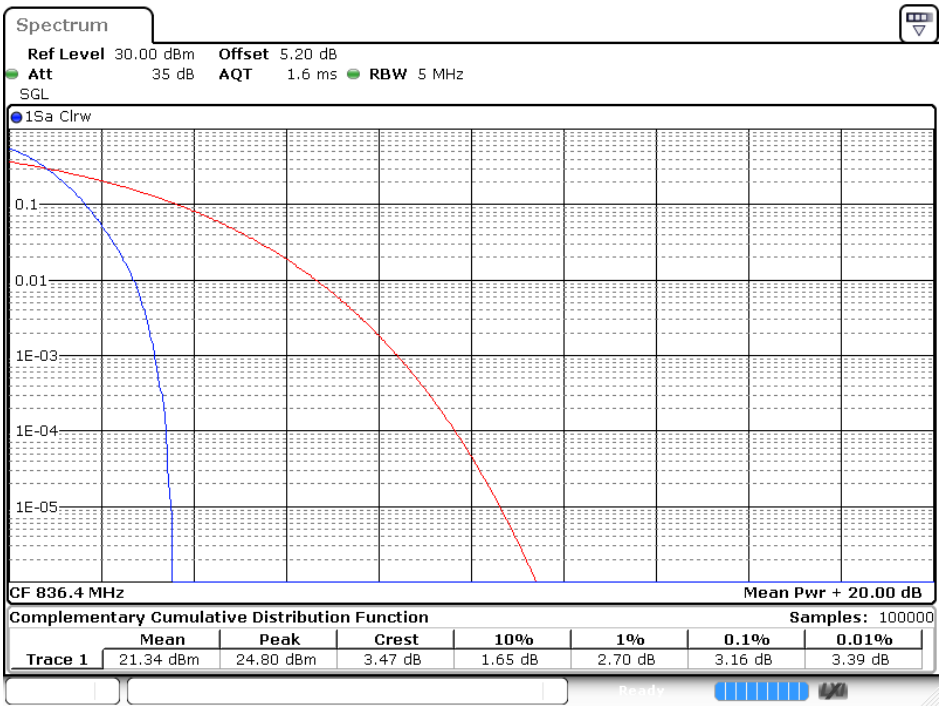

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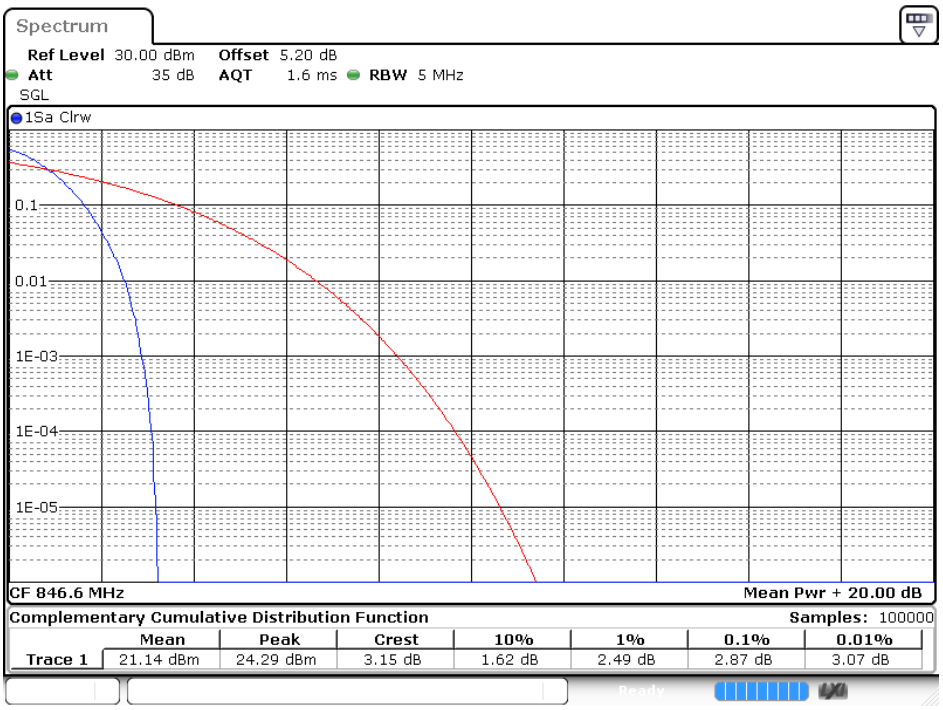

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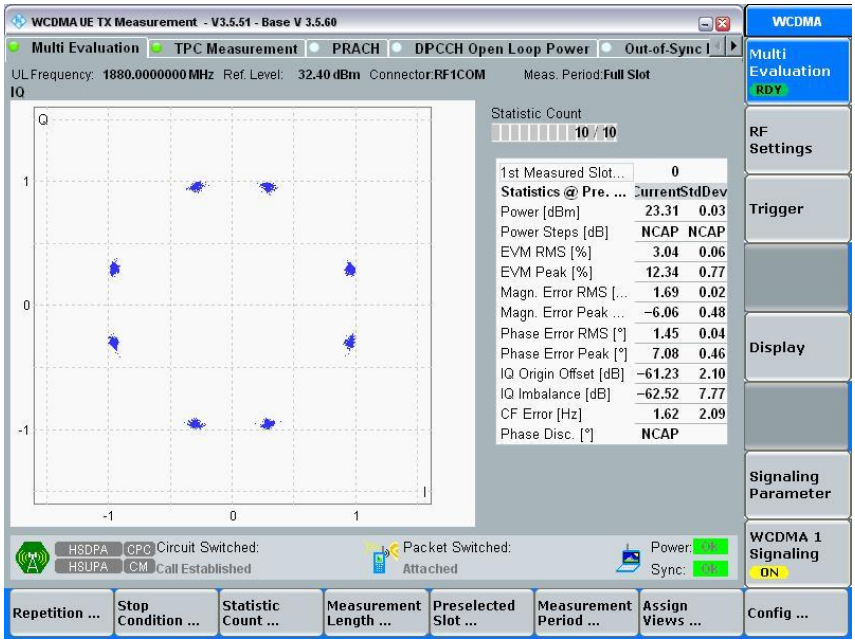
3. Modulation Characteristics

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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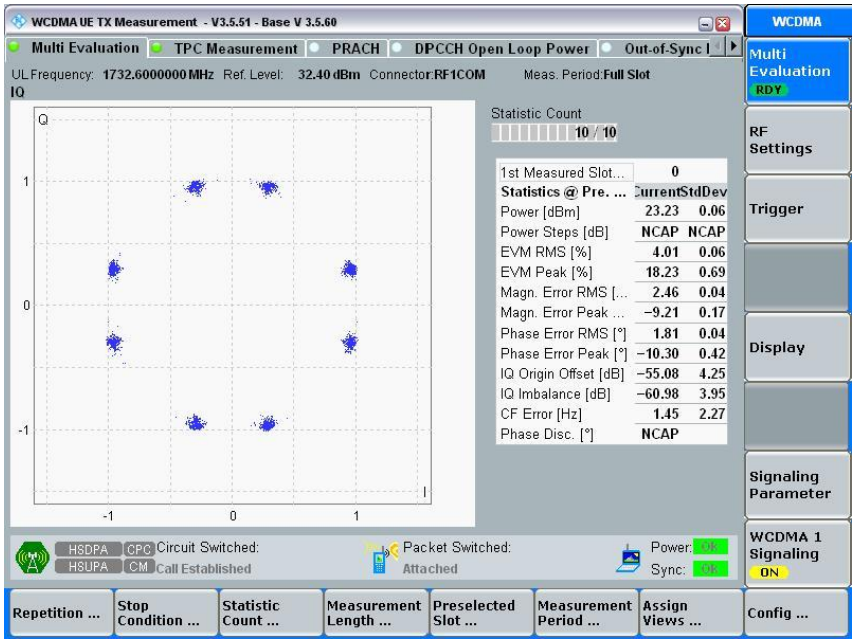
3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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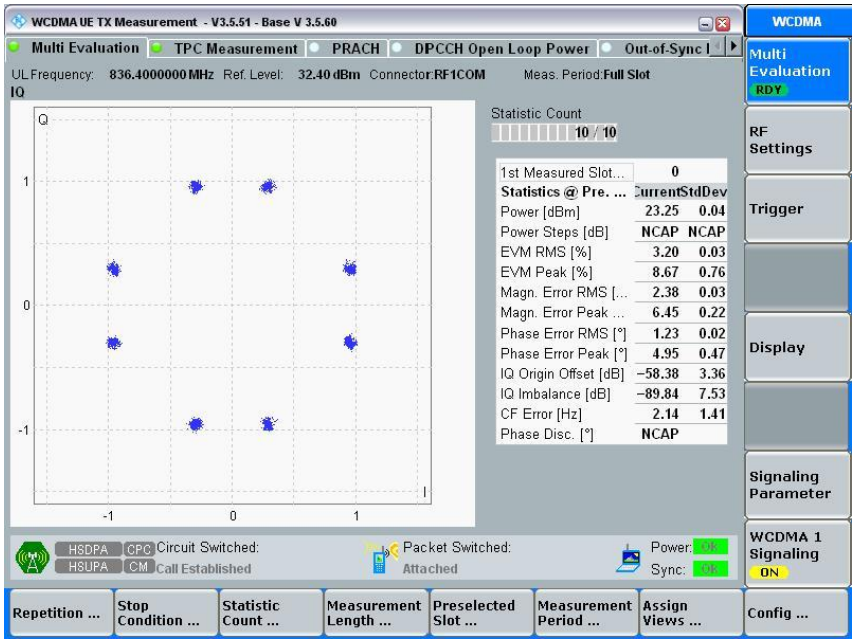
3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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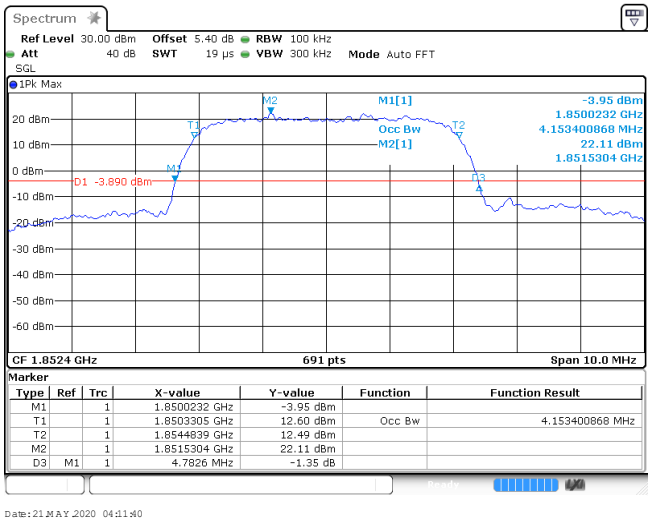
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4783	---	PASS
Band II	9400	4153.4	4768	---	PASS
Band II	9538	4153.4	4797	---	PASS
Band IV	1312	4124.5	4754	---	PASS
Band IV	1413	4124.5	4754	---	PASS
Band IV	1513	4124.5	4754	---	PASS
Band V	4132	4138.9	4783	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4138.9	4739	---	PASS

4.2. Test Plots



Band II_9262

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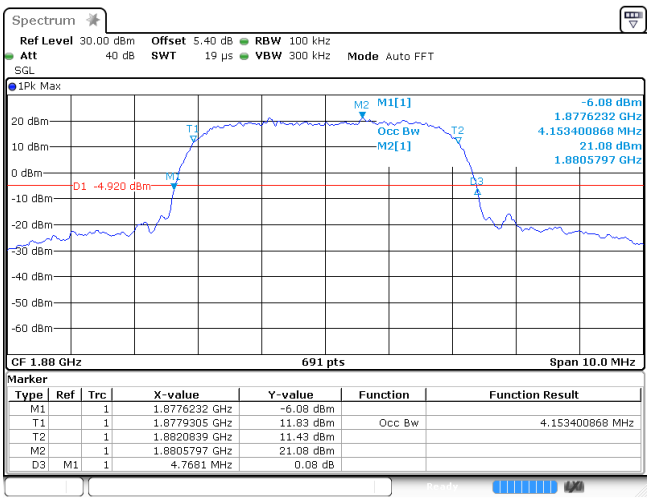
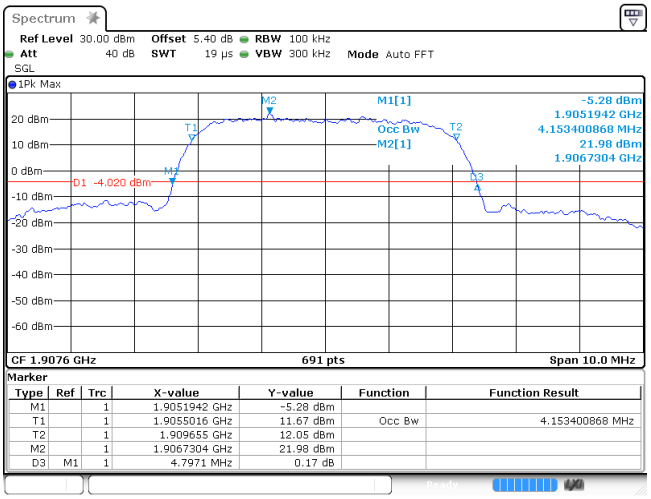


Band II_9400



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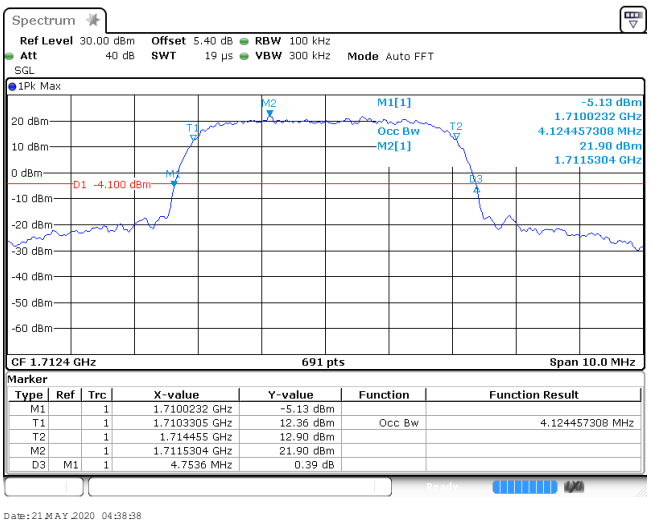
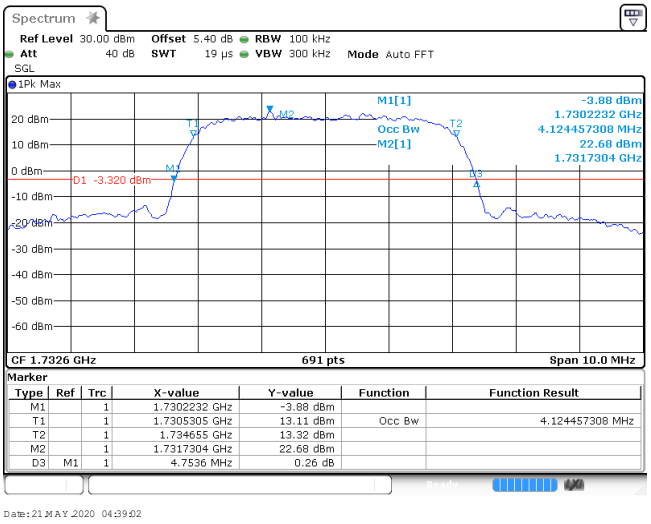


Band IV_1312



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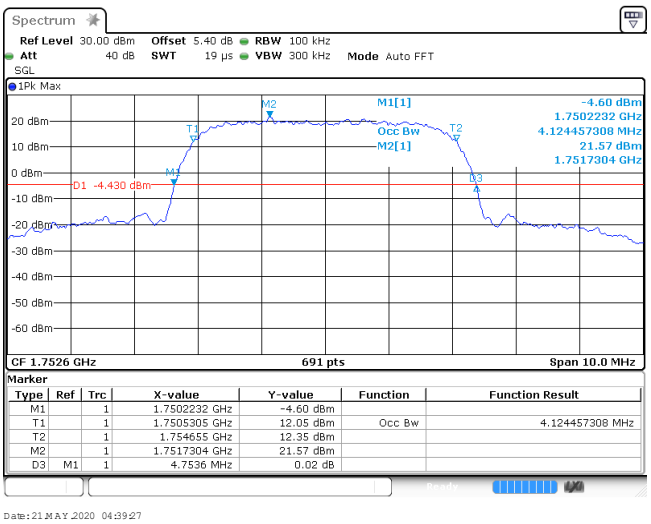
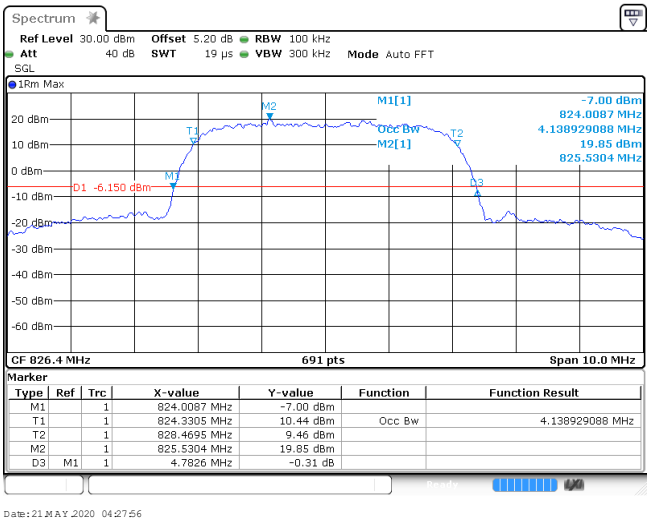


Band IV_1513



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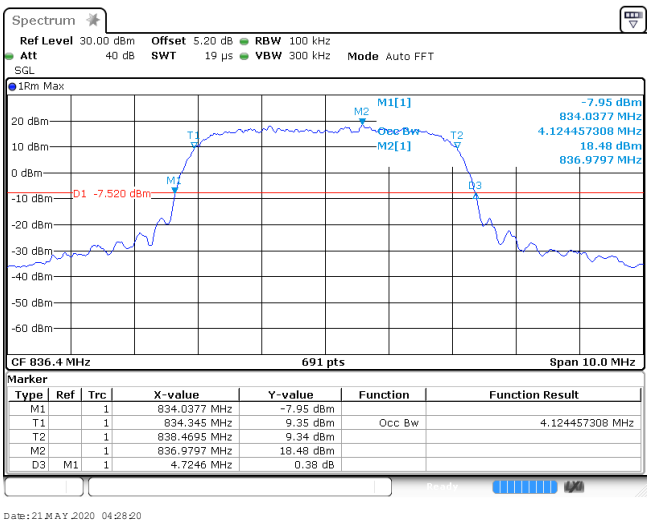
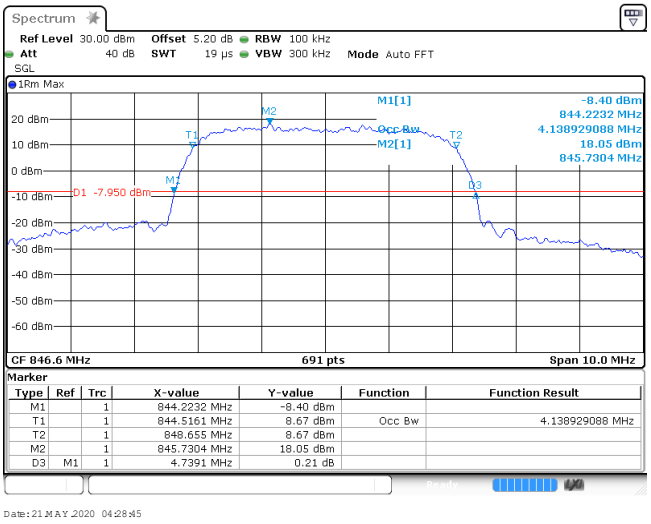


Band V_4182



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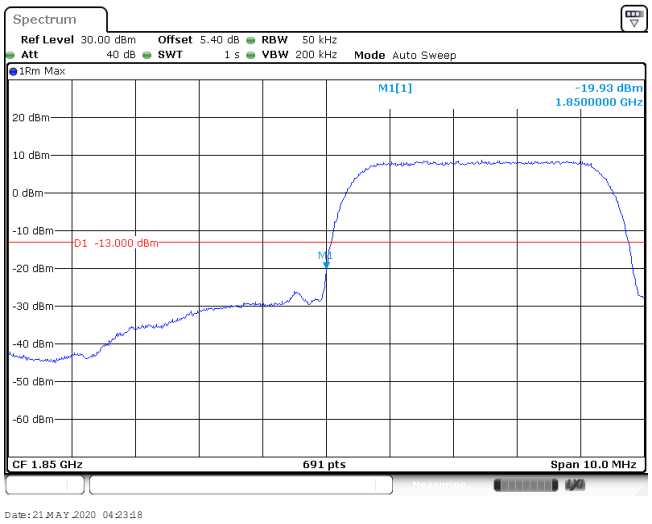
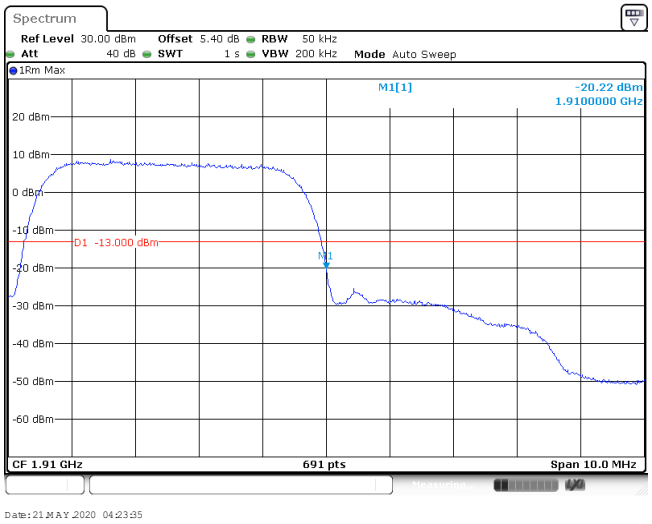
5. Band Edge Compliance

5.1. Test Plots



Band II_9262



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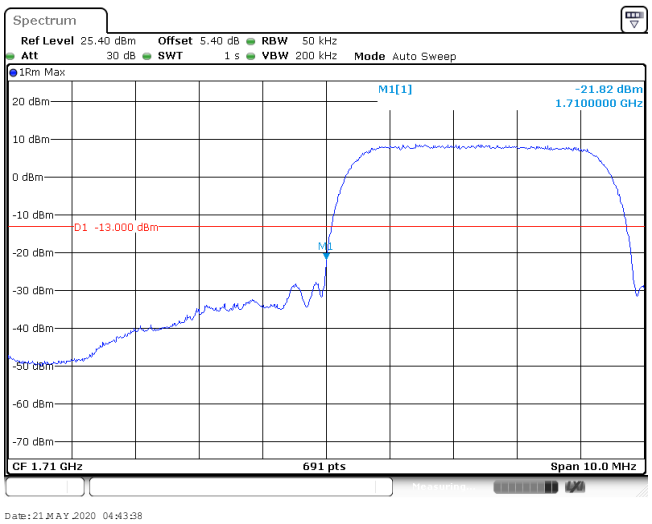
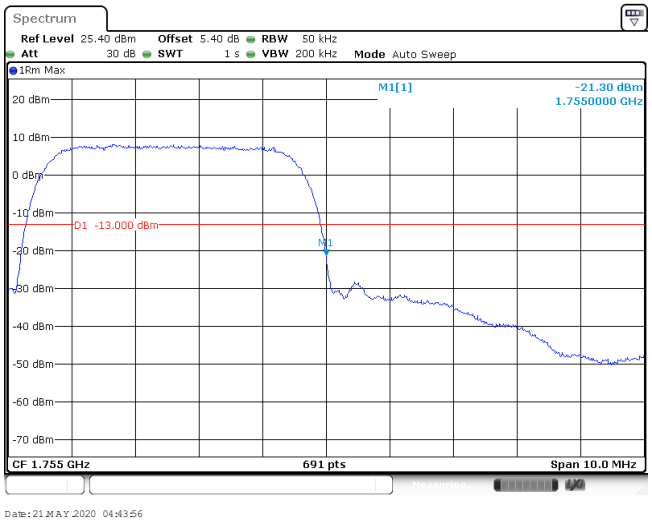


Band IV_1312



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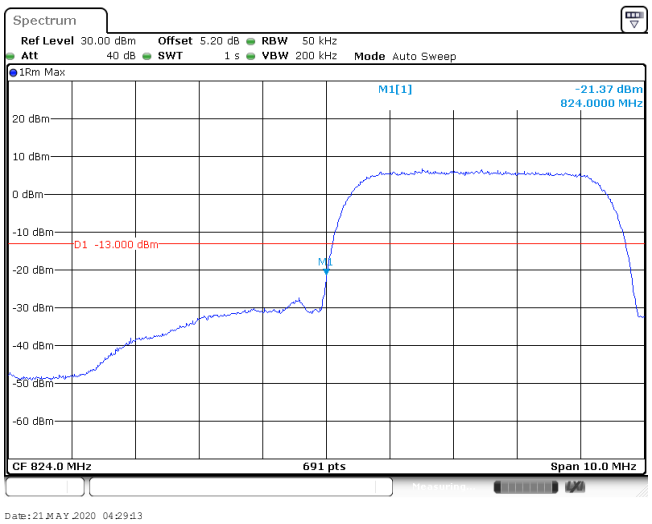

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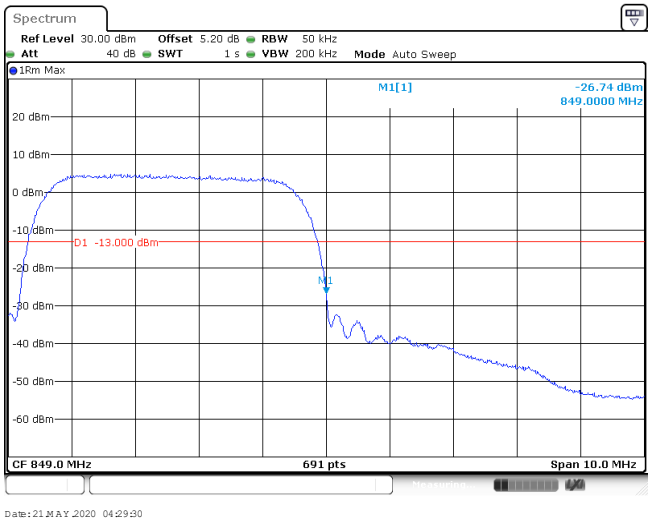

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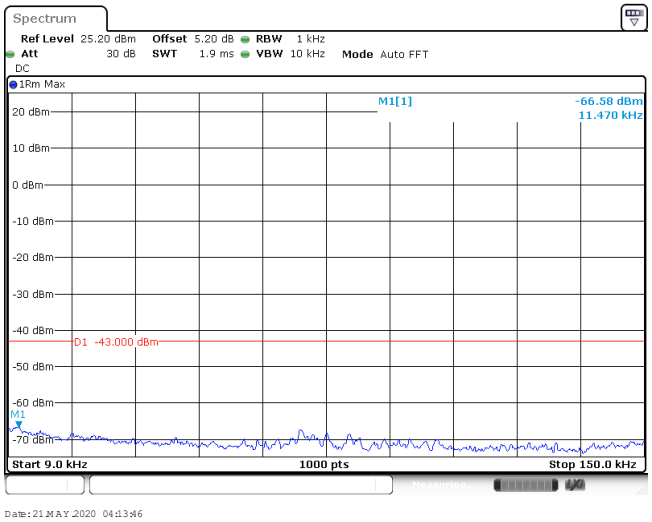
6. Spurious Emission at Antenna Terminal

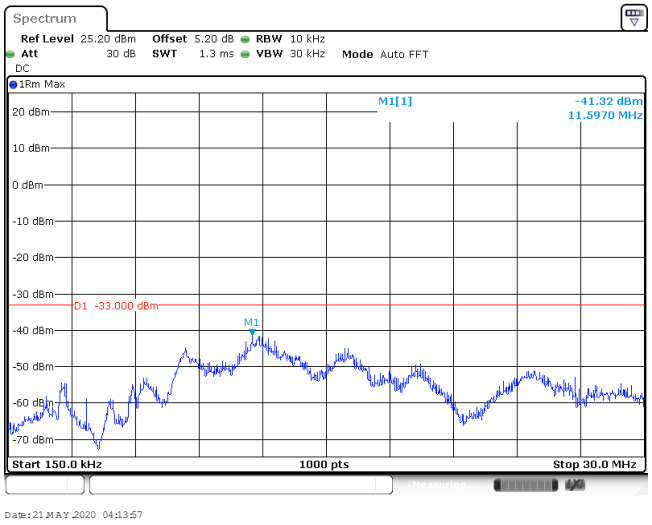
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (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



Band II_9262



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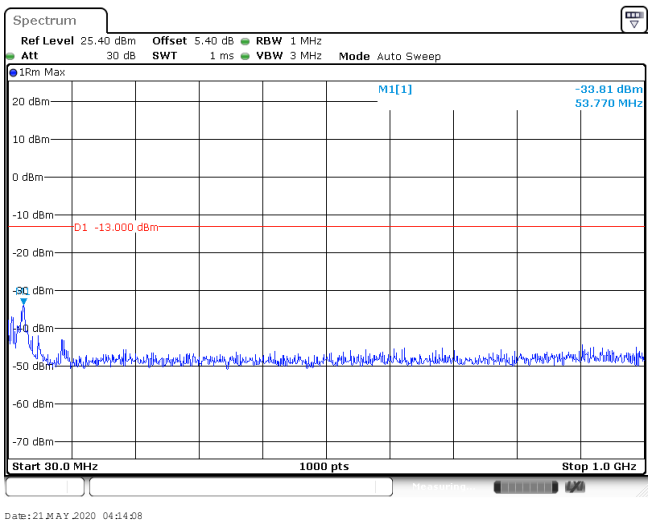

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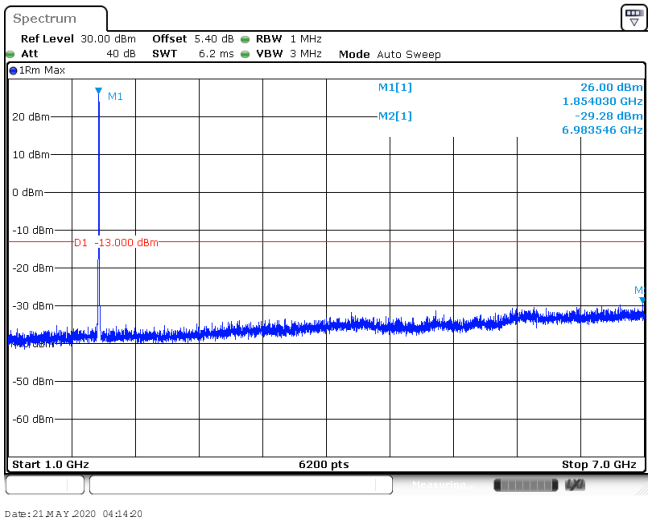

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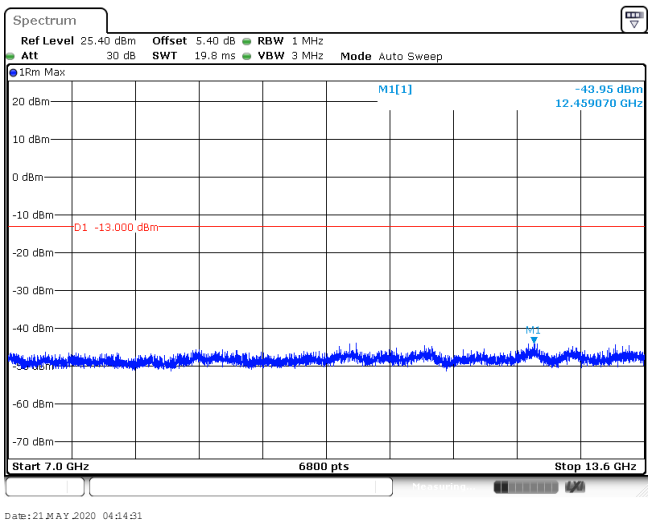

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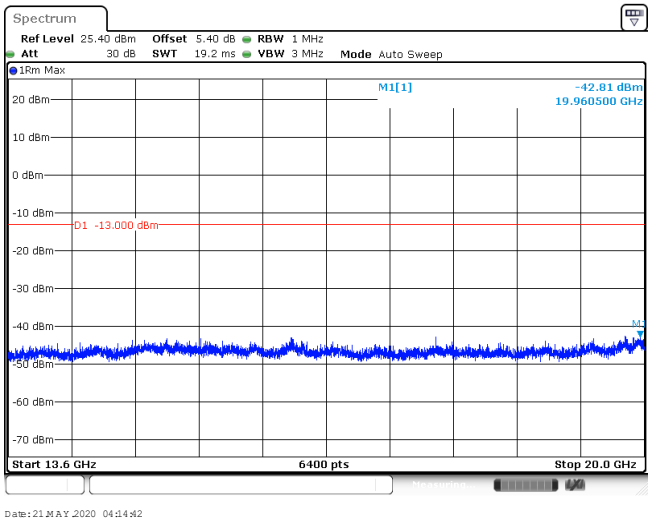

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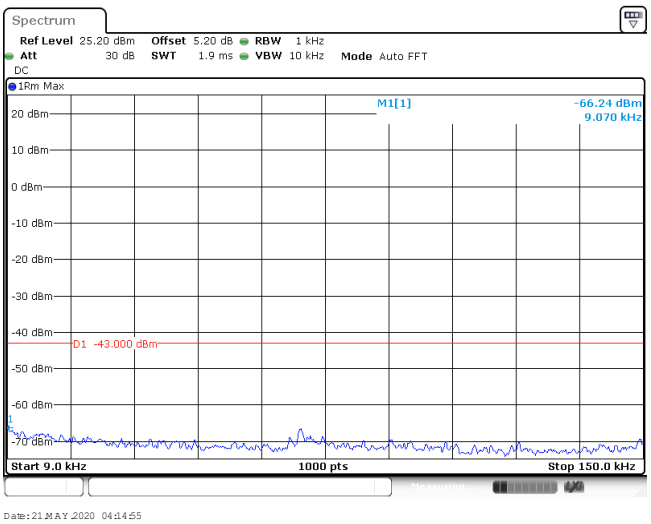

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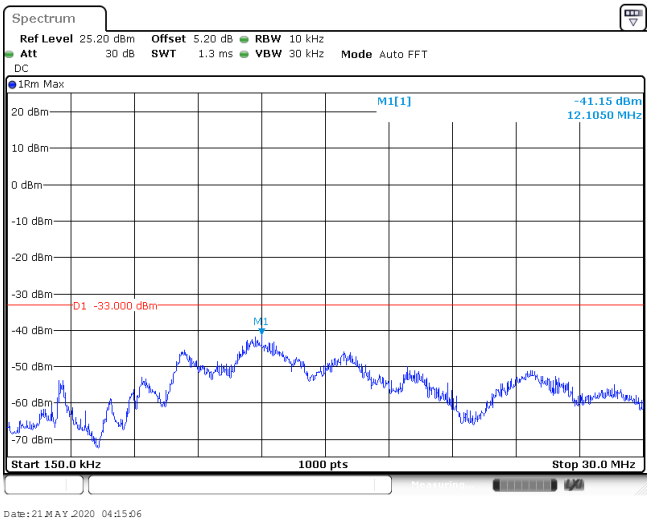

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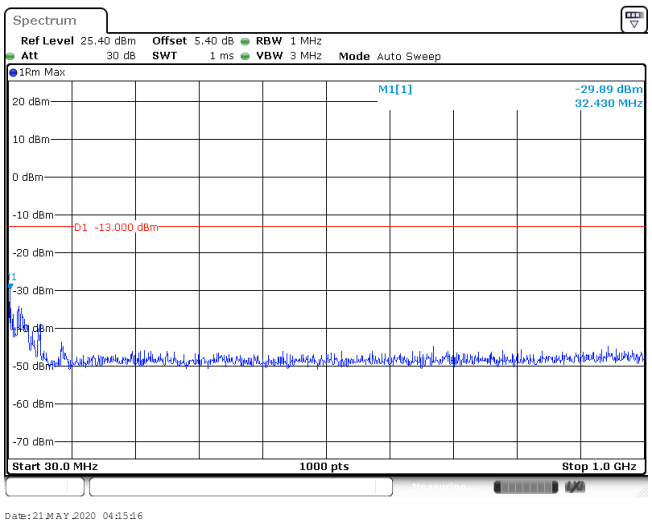

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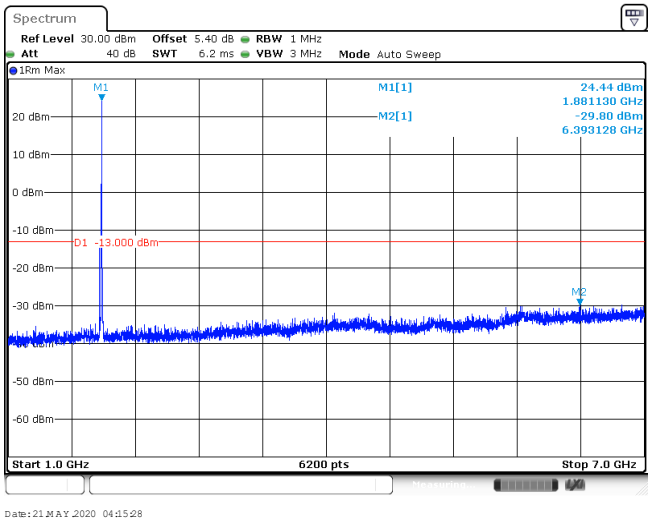

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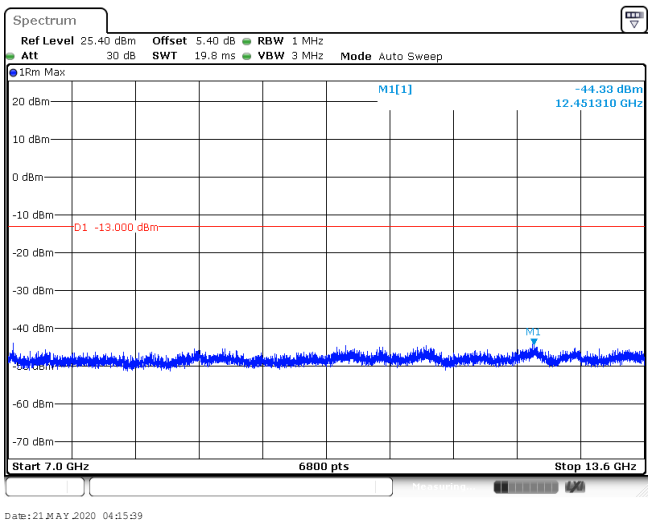

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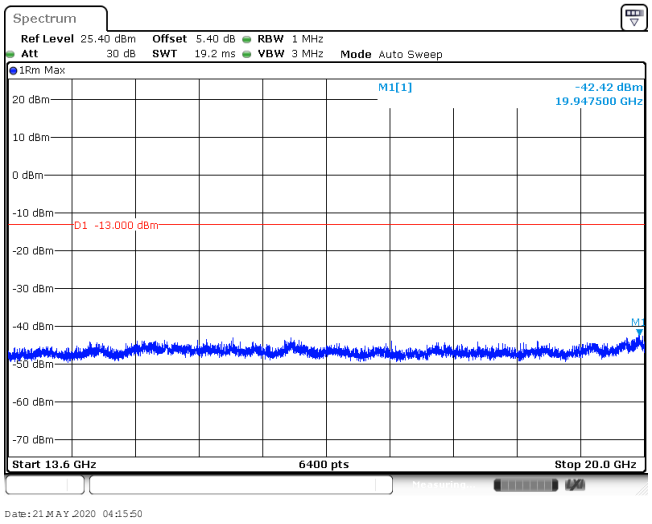

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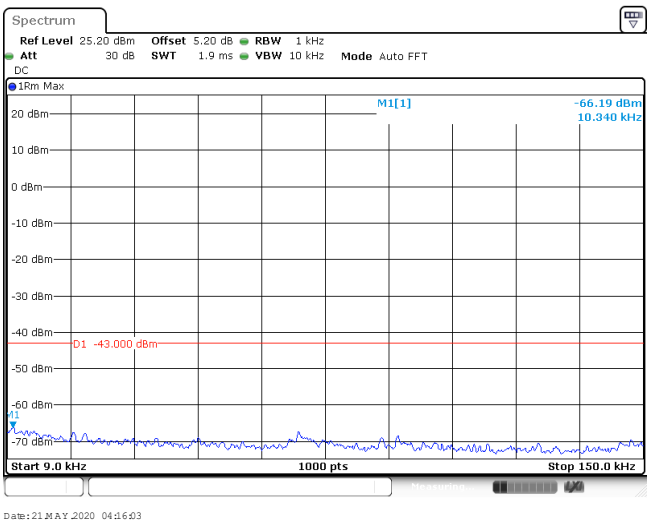

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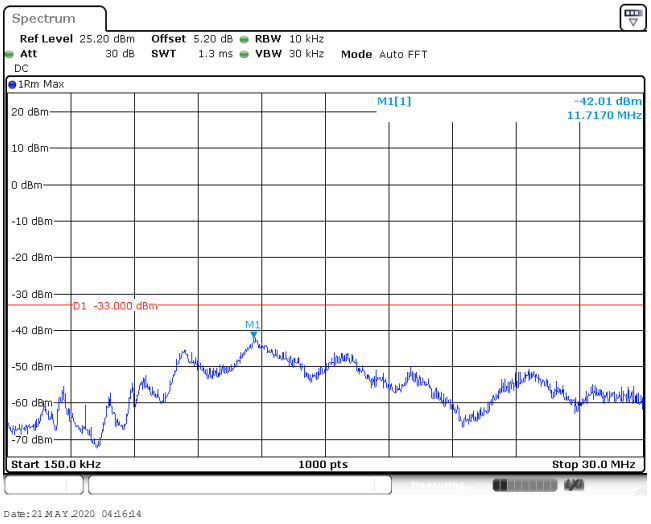

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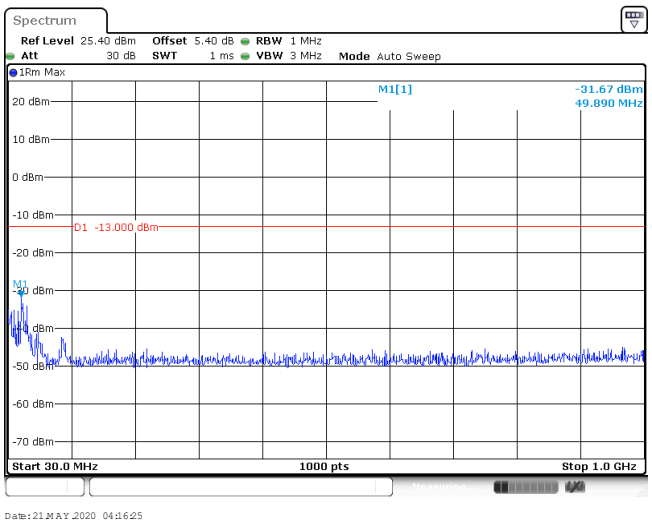

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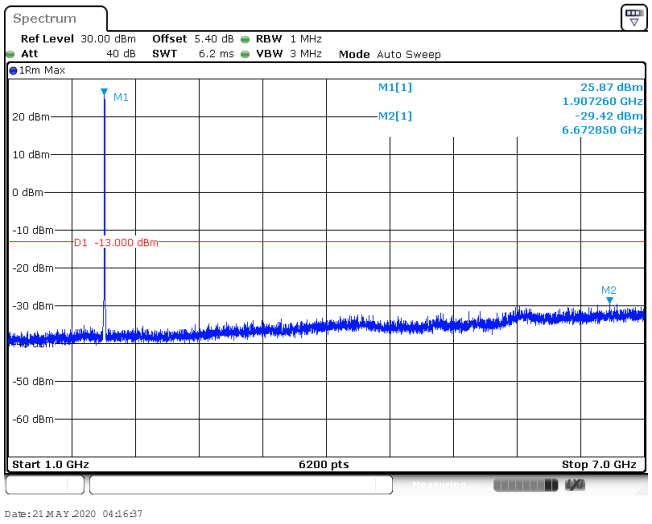

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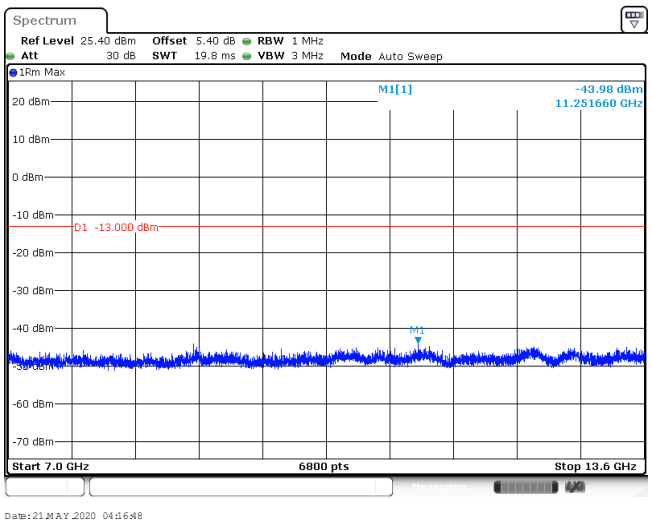

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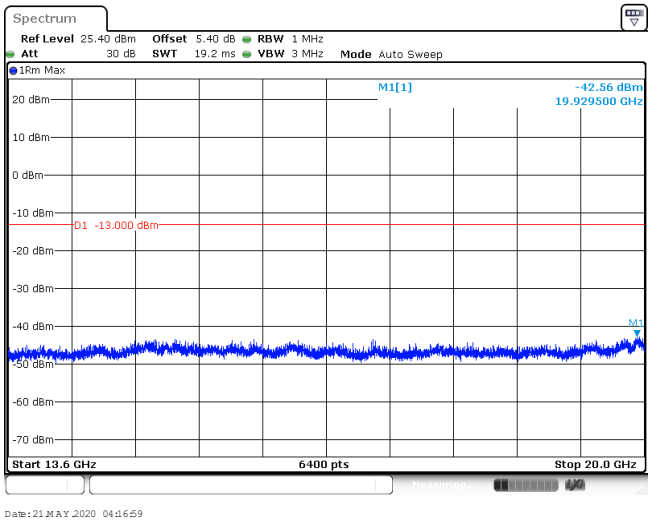

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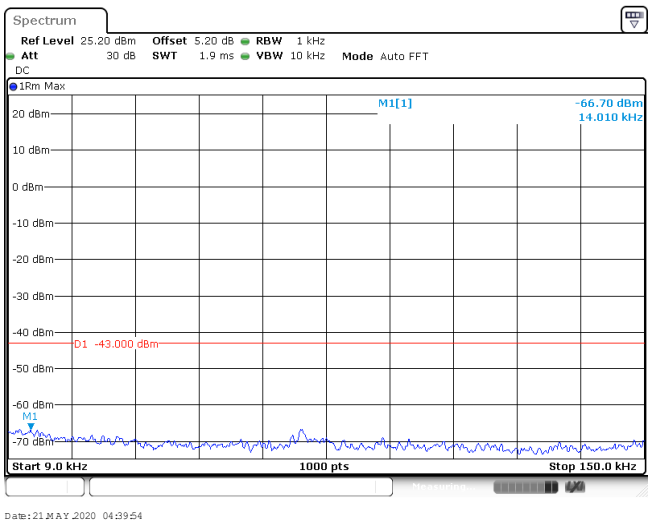

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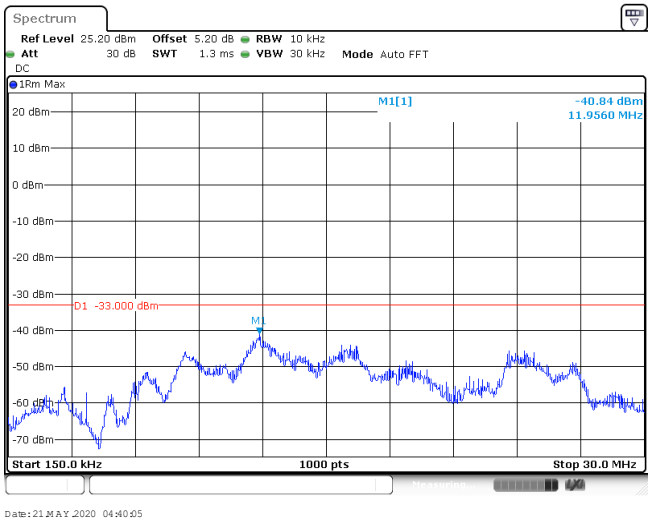

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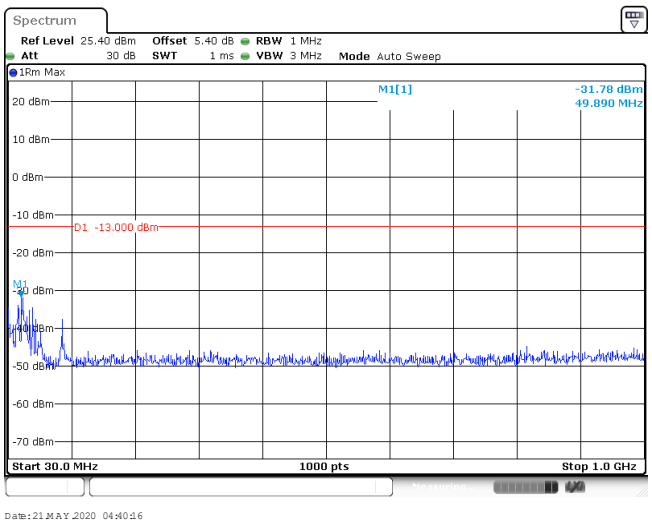

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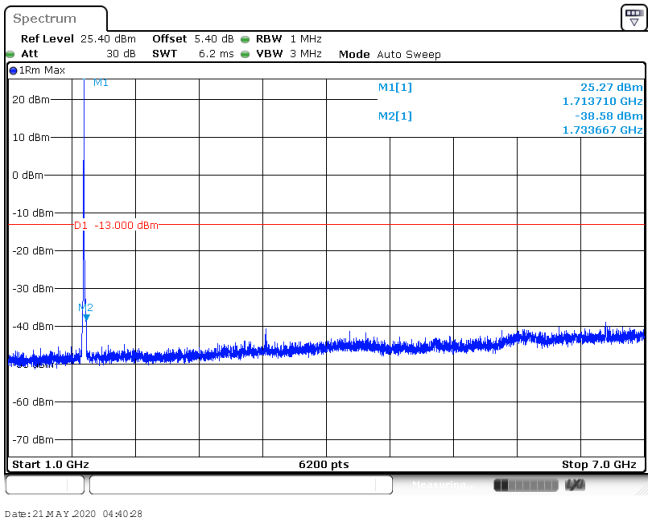

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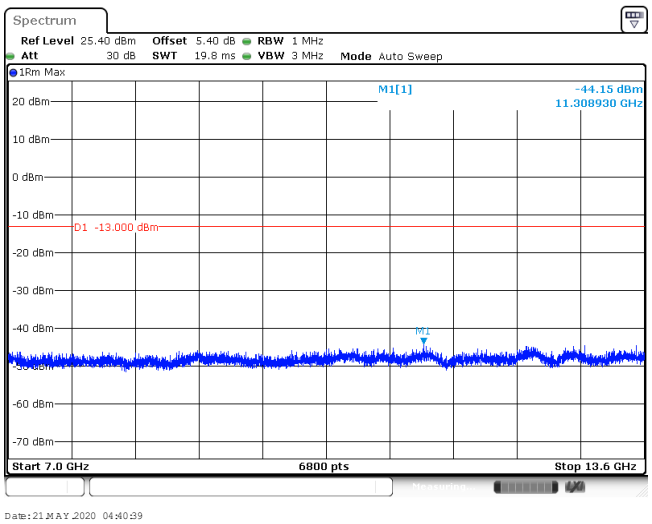

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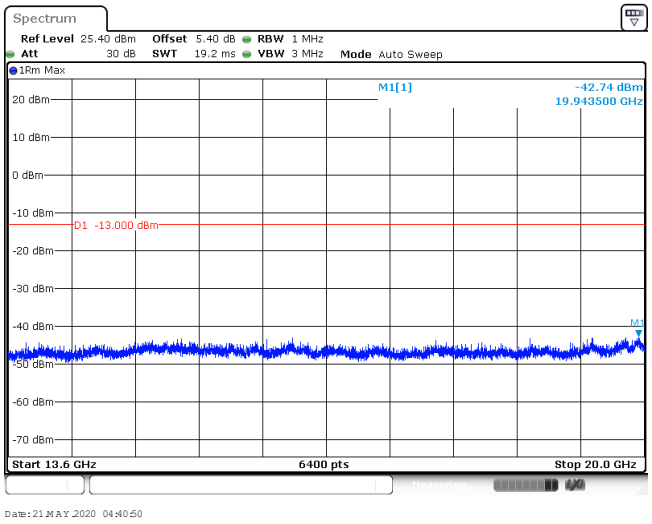

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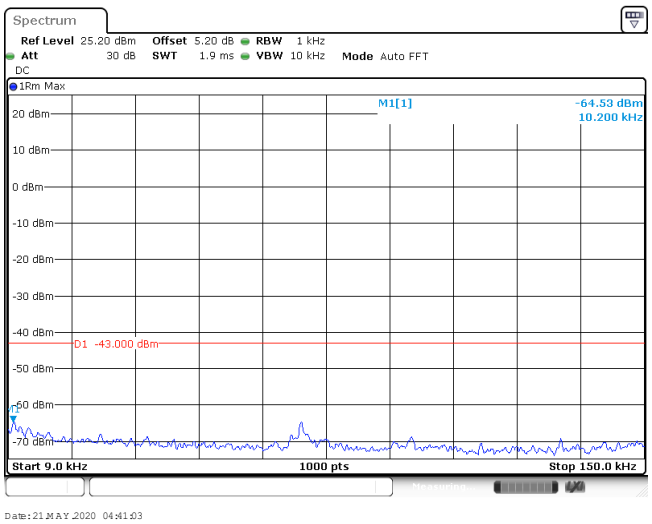

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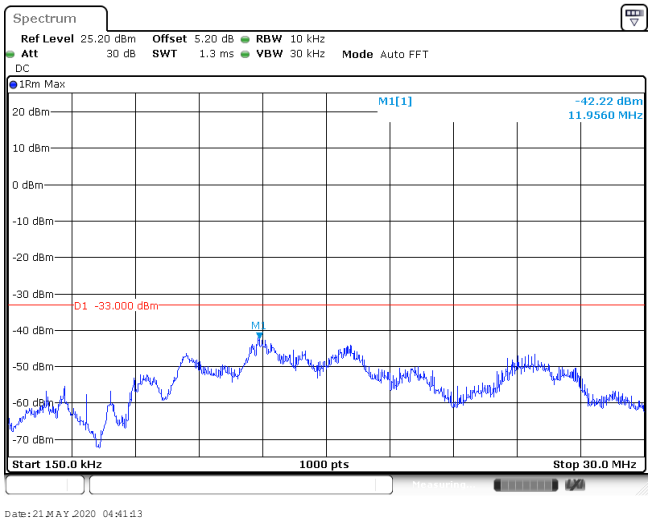

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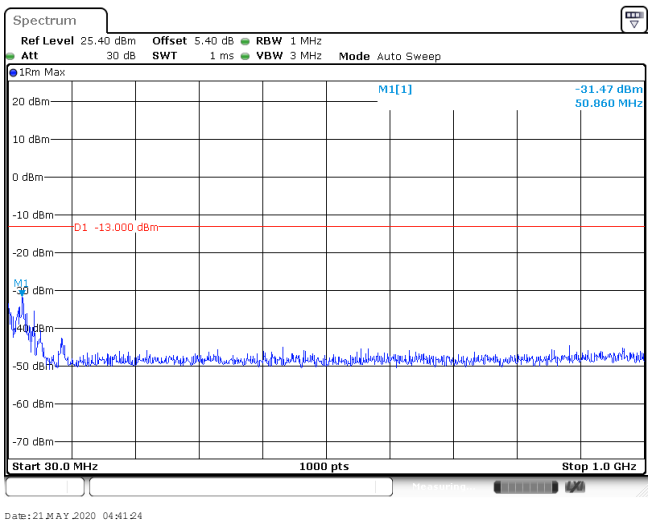

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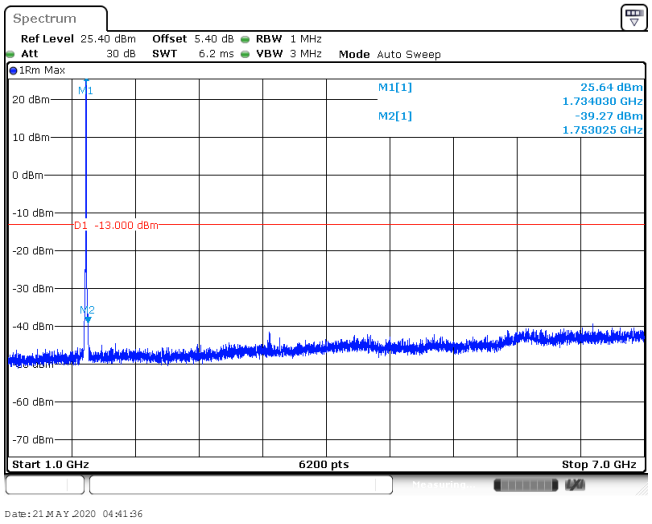

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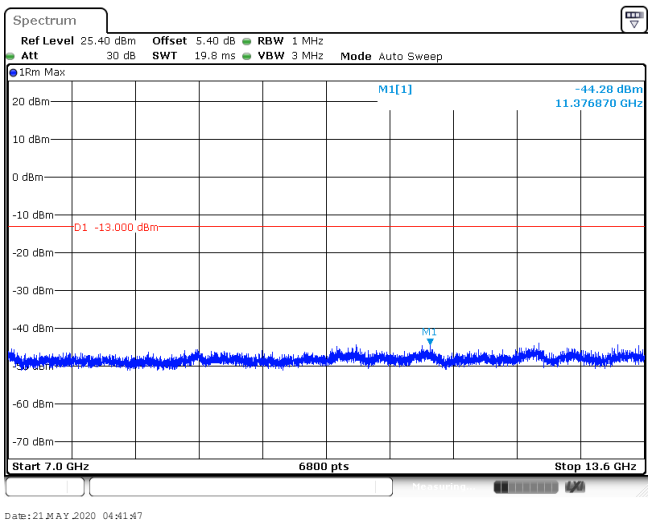

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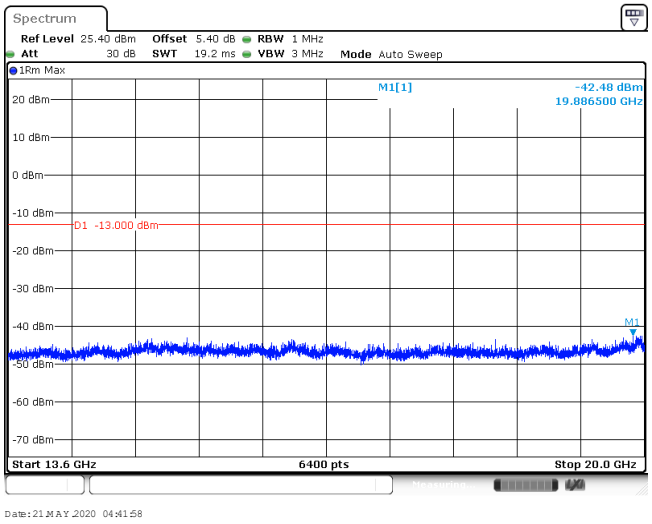

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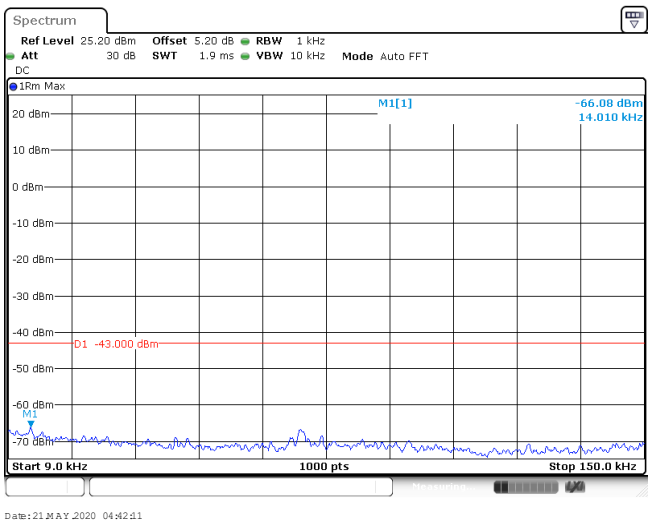

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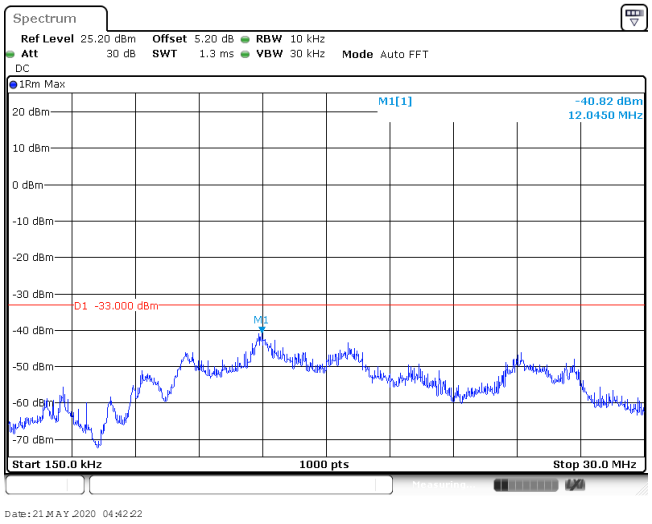

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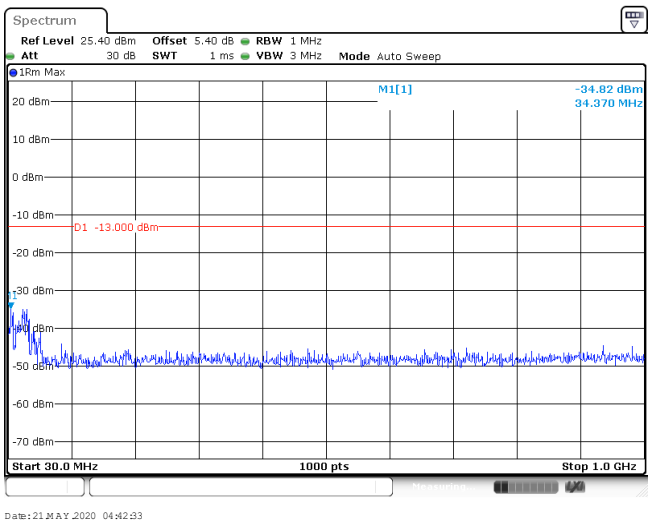

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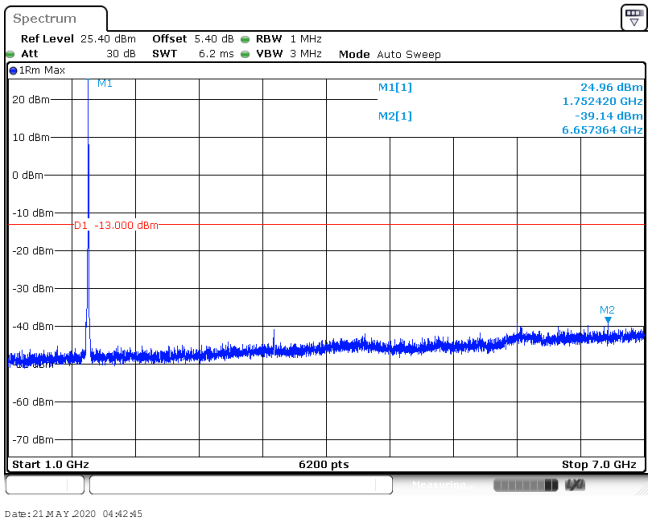

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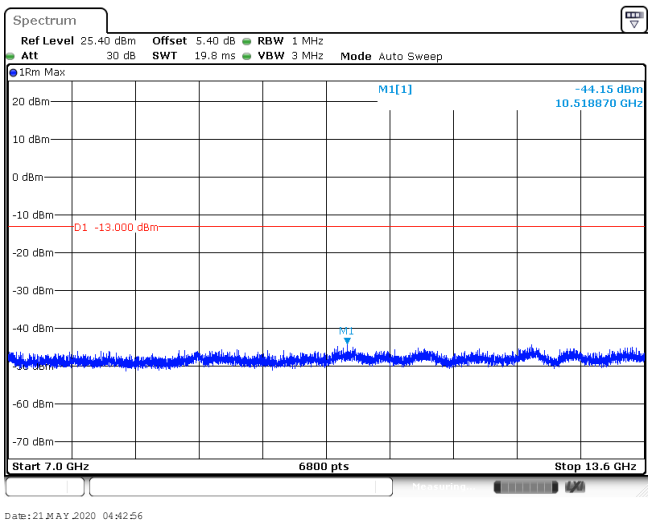

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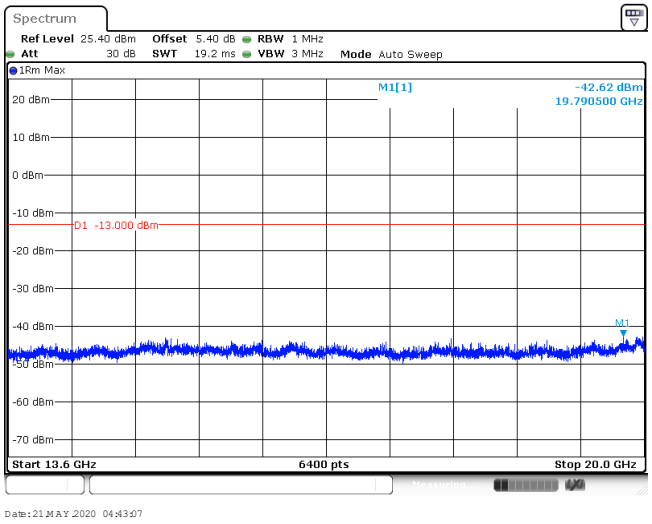

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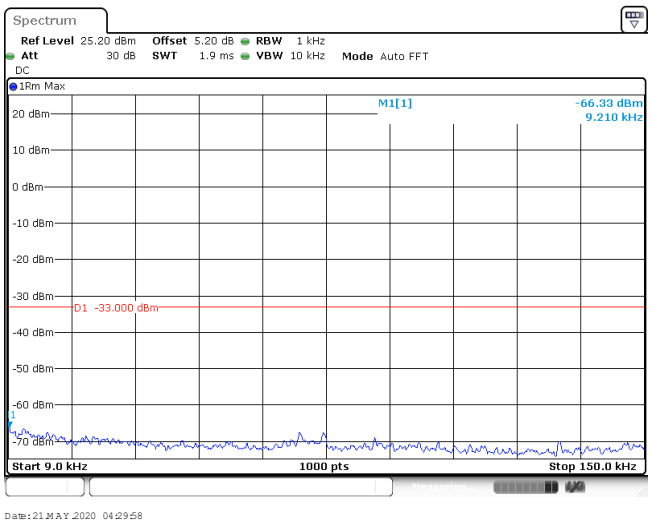

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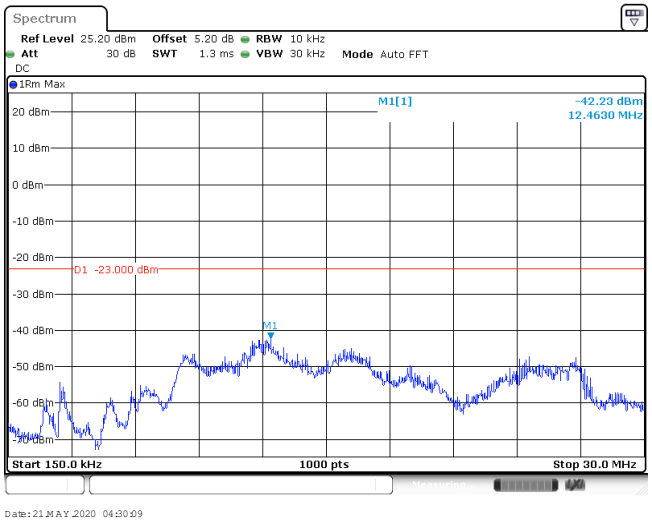

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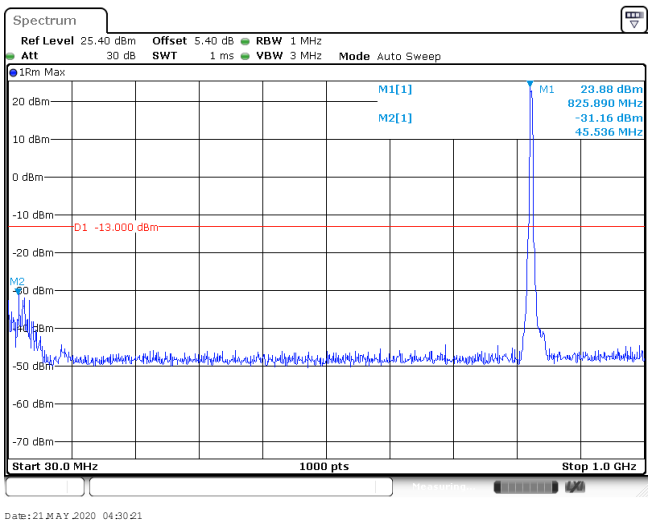

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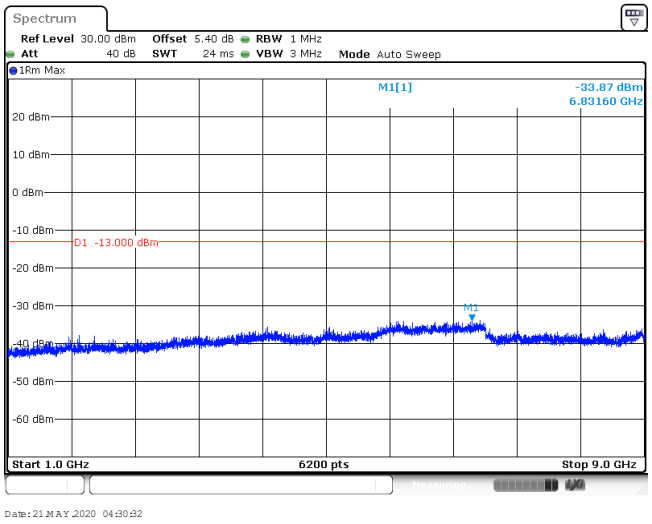

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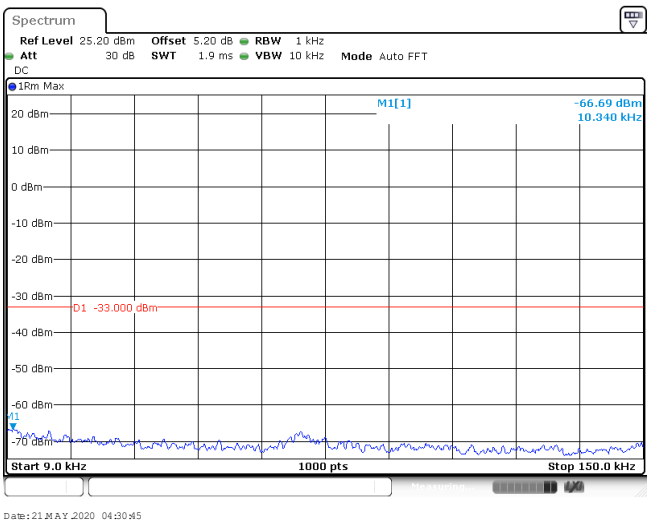

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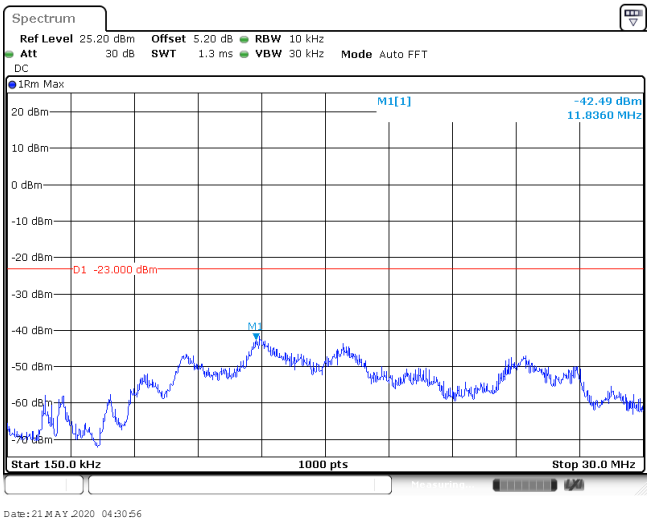

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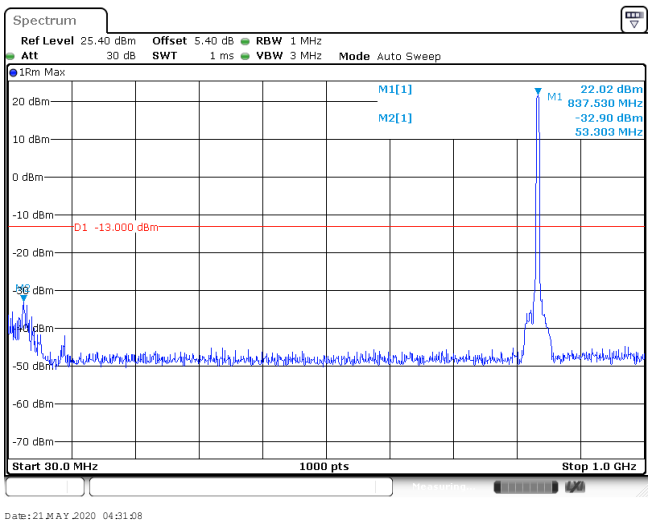

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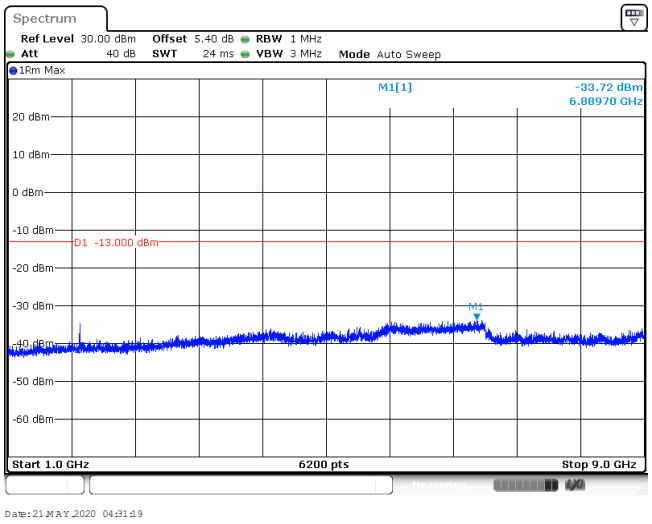

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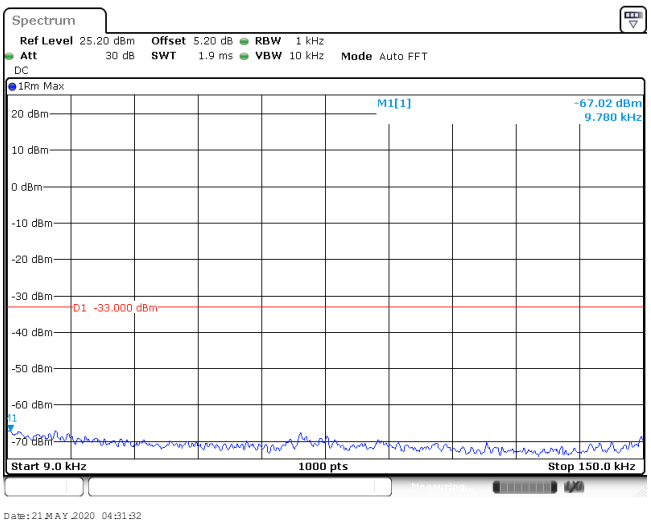

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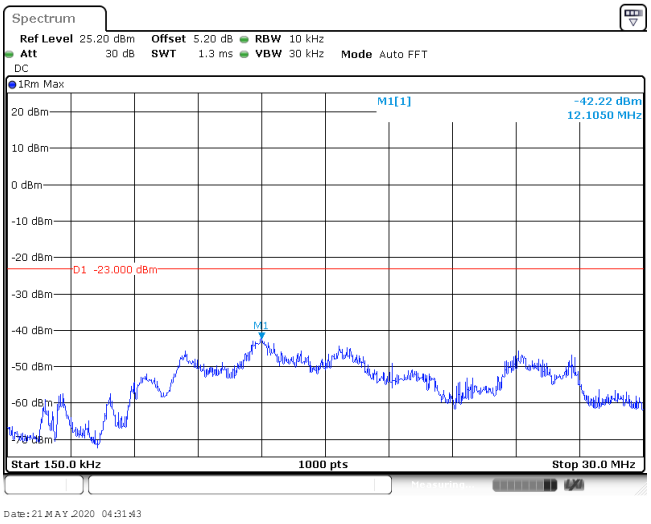

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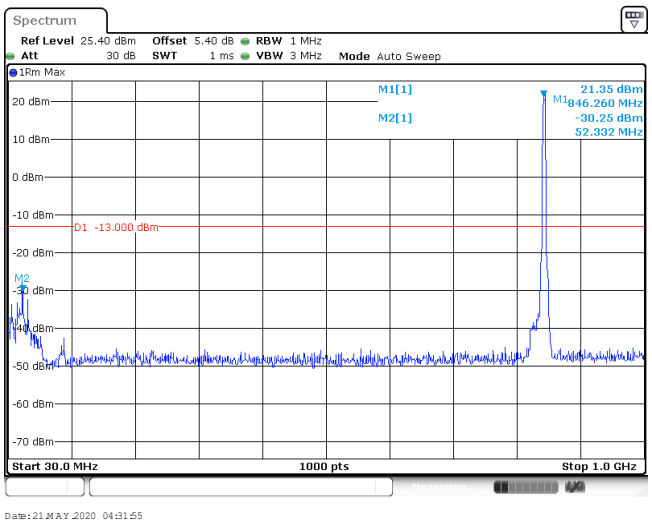

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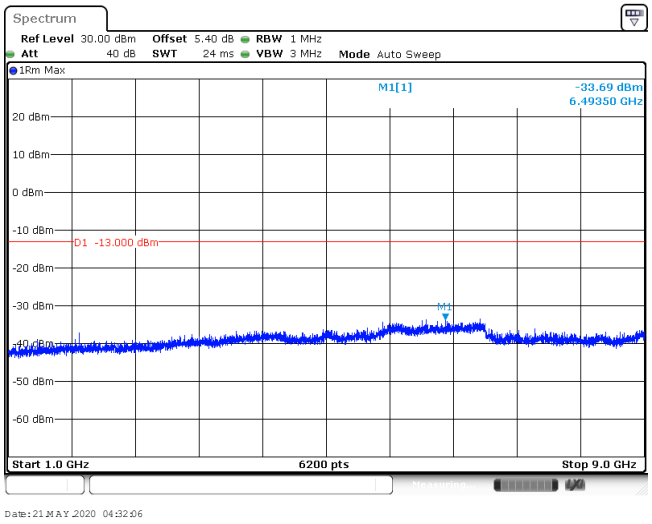

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7. Field Strength of Spurious Radiation

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)	Height [cm]	Angle [°]	Polarization
51.1956	-72.04	-13.00	59.04	263	72	Vertical
114.9277	-64.13	-13.00	51.13	274	262	Vertical
313.7392	-68.12	-13.00	55.12	178	325	Vertical
3703.0234	-56.71	-13.00	43.71	290	9	Vertical
5560.0853	-55.01	-13.00	42.01	132	9	Vertical
14480.3827	-47.50	-13.00	34.50	173	293	Vertical
39.6520	-63.48	-13.00	50.48	296	198	Horizontal
250.3950	-67.96	-13.00	54.96	245	262	Horizontal
597.6239	-63.44	-13.00	50.44	111	293	Horizontal
3706.5236	-54.59	-13.00	41.59	178	356	Horizontal
5560.5854	-56.40	-13.00	43.40	253	8	Horizontal
16382.4461	-44.05	-13.00	31.05	229	40	Horizontal

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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
51.1471	-72.89	-13.00	59.89	196	262	Vertical
109.9805	-64.84	-13.00	51.84	124	325	Vertical
393.1862	-67.70	-13.00	54.70	112	9	Vertical
3758.0253	-56.77	-13.00	43.77	263	9	Vertical
5637.5879	-56.13	-13.00	43.13	284	9	Vertical
14508.3836	-48.21	-13.00	35.21	242	72	Vertical
43.8232	-63.89	-13.00	50.89	185	72	Horizontal
233.1282	-67.68	-13.00	54.68	163	325	Horizontal
511.2411	-66.54	-13.00	53.54	125	9	Horizontal
3761.5254	-56.77	-13.00	43.77	176	9	Horizontal
5636.5879	-57.79	-13.00	44.79	252	72	Horizontal
16390.9464	-43.84	-13.00	30.84	296	198	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.1770	-71.43	-13.00	58.43	132	135	Vertical
116.8193	-63.74	-13.00	50.74	175	40	Vertical
608.8279	-63.25	-13.00	50.25	295	198	Vertical
3817.0272	-54.55	-13.00	41.55	174	198	Vertical
5719.5907	-57.21	-13.00	44.21	222	8	Vertical
7625.6542	-56.07	-13.00	43.07	217	72	Vertical
42.8531	-64.83	-13.00	51.83	111	262	Horizontal
242.8286	-67.80	-13.00	54.80	154	72	Horizontal
569.9775	-64.60	-13.00	51.60	196	8	Horizontal
3813.5271	-54.96	-13.00	41.96	173	356	Horizontal
5725.0908	-57.28	-13.00	44.28	245	40	Horizontal
16408.4469	-44.12	-13.00	31.12	284	103	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)	Height [cm]	Angle [°]	Polarization
46.2968	-72.52	-13.00	59.52	263	9	Vertical
110.7080	-61.91	-13.00	48.91	284	262	Vertical
342.5981	-65.85	-13.00	52.85	222	293	Vertical
3621.0207	-60.45	-13.00	47.45	285	262	Vertical
8578.1859	-52.78	-13.00	39.78	211	230	Vertical
17992.9998	-34.36	-13.00	21.36	238	72	Vertical
42.1256	-61.68	-13.00	48.68	263	230	Horizontal
240.5005	-64.99	-13.00	51.99	272	293	Horizontal
599.7580	-61.34	-13.00	48.34	144	198	Horizontal
5109.5703	-59.69	-13.00	46.69	189	135	Horizontal
10597.7533	-48.64	-13.00	35.64	219	40	Horizontal
16396.4465	-35.50	-13.00	22.50	245	167	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.8560	-70.21	-13.00	57.21	185	10	Vertical
110.1745	-62.28	-13.00	49.28	132	167	Vertical
685.4133	-59.81	-13.00	46.81	246	136	Vertical
3562.0187	-60.76	-13.00	47.76	237	73	Vertical
7453.6485	-53.14	-13.00	40.14	222	41	Vertical
17999.0000	-34.27	-13.00	21.27	187	10	Vertical
45.0358	-62.43	-13.00	49.43	296	40	Horizontal
233.8557	-65.11	-13.00	52.11	245	8	Horizontal
513.3752	-63.62	-13.00	50.62	111	40	Horizontal
5132.5711	-59.93	-13.00	46.93	152	71	Horizontal
9303.7101	-50.23	-13.00	37.23	194	8	Horizontal
16408.9470	-35.33	-13.00	22.33	132	325	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
46.2483	-71.28	-13.00	58.28	182	9	Vertical
113.4242	-62.34	-13.00	49.34	145	199	Vertical
539.2755	-63.15	-13.00	50.15	166	104	Vertical
3718.0239	-60.48	-13.00	47.48	178	230	Vertical
7995.1665	-53.13	-13.00	40.13	294	230	Vertical
17996.4999	-34.06	-13.00	21.06	244	135	Vertical
46.1998	-61.97	-13.00	48.97	294	325	Horizontal
242.5861	-65.47	-13.00	52.47	242	40	Horizontal
514.7332	-62.45	-13.00	49.45	111	9	Horizontal
3593.5198	-59.80	-13.00	46.80	189	103	Horizontal
9337.2112	-50.10	-13.00	37.10	163	135	Horizontal
16400.9467	-35.57	-13.00	22.57	127	262	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)	Height [cm]	Angle [°]	Polarization
52.4566	-72.18	-13.00	59.18	179	103	Vertical
112.2601	-64.72	-13.00	51.72	253	135	Vertical
294.0472	-69.87	-13.00	56.87	224	198	Vertical
1654.5309	-59.64	-13.00	46.64	263	28	Vertical
2700.7401	-51.94	-13.00	38.94	284	277	Vertical
17998.5000	-40.18	-13.00	27.18	132	325	Vertical
40.7675	-63.01	-13.00	50.01	189	198	Horizontal
124.9192	-75.91	-13.00	62.91	166	325	Horizontal
229.7815	-67.96	-13.00	54.96	173	9	Horizontal
1651.3303	-56.21	-13.00	43.21	125	187	Horizontal
2708.3417	-50.84	-13.00	37.84	264	347	Horizontal
7475.6492	-56.54	-13.00	43.54	222	167	Horizontal

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7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
50.8075	-71.70	-13.00	58.70	263	293	Vertical
115.2673	-64.43	-13.00	51.43	278	293	Vertical
449.7400	-67.71	-13.00	54.71	222	167	Vertical
1674.1348	-60.34	-13.00	47.34	189	148	Vertical
2697.5395	-51.99	-13.00	38.99	171	90	Vertical
7355.1452	-56.29	-13.00	43.29	118	293	Vertical
43.5322	-63.20	-13.00	50.20	196	40	Horizontal
101.0561	-75.34	-13.00	62.34	124	103	Horizontal
237.5904	-68.58	-13.00	55.58	142	103	Horizontal
1674.1348	-58.74	-13.00	45.74	111	150	Horizontal
2699.9400	-50.91	-13.00	37.91	172	155	Horizontal
9317.2106	-52.94	-13.00	39.94	263	198	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
113.3757	-65.14	-13.00	52.14	152	262	Vertical
466.5703	-66.44	-13.00	53.44	133	199	Vertical
2703.1406	-51.96	-13.00	38.96	228	120	Vertical
7365.6455	-56.07	-13.00	43.07	194	72	Vertical
14476.3825	-48.34	-13.00	35.34	162	262	Vertical
17994.9998	-39.94	-13.00	26.94	277	199	Vertical
42.1741	-64.39	-13.00	51.39	232	40	Horizontal
233.6617	-67.98	-13.00	54.98	274	72	Horizontal
2698.7397	-50.84	-13.00	37.84	222	220	Horizontal
7467.1489	-56.92	-13.00	43.92	296	135	Horizontal
16402.4467	-43.78	-13.00	30.78	261	167	Horizontal
17997.9999	-45.56	-13.00	32.56	184	261	Horizontal

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Remark:

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	3.54	0.001911	±2.5	PASS
Band II	9262	VN	TN	8.56	0.004621	±2.5	PASS
Band II	9262	VH	TN	9.55	0.005158	±2.5	PASS
Band II	9400	VL	TN	-9.42	-0.005010	±2.5	PASS
Band II	9400	VN	TN	-7.77	-0.004135	±2.5	PASS
Band II	9400	VH	TN	3.40	0.001811	±2.5	PASS
Band II	9538	VL	TN	-9.02	-0.004727	±2.5	PASS
Band II	9538	VN	TN	7.57	0.003966	±2.5	PASS
Band II	9538	VH	TN	12.77	0.006696	±2.5	PASS
Band IV	1312	VL	TN	9.34	0.005457	±2.5	PASS
Band IV	1312	VN	TN	-2.42	-0.001412	±2.5	PASS
Band IV	1312	VH	TN	4.39	0.002565	±2.5	PASS
Band IV	1413	VL	TN	10.82	0.006246	±2.5	PASS
Band IV	1413	VN	TN	-6.01	-0.003466	±2.5	PASS
Band IV	1413	VH	TN	4.67	0.002694	±2.5	PASS
Band IV	1513	VL	TN	10.63	0.006065	±2.5	PASS
Band IV	1513	VN	TN	5.42	0.003093	±2.5	PASS
Band IV	1513	VH	TN	-13.50	-0.007701	±2.5	PASS
Band V	4132	VL	TN	-3.03	-0.003670	±2.5	PASS
Band V	4132	VN	TN	-10.07	-0.012189	±2.5	PASS
Band V	4132	VH	TN	-7.82	-0.009460	±2.5	PASS
Band V	4182	VL	TN	-12.65	-0.015124	±2.5	PASS
Band V	4182	VN	TN	-2.95	-0.003523	±2.5	PASS
Band V	4182	VH	TN	12.10	0.014468	±2.5	PASS
Band V	4233	VL	TN	11.89	0.014042	±2.5	PASS
Band V	4233	VN	TN	-13.09	-0.015463	±2.5	PASS
Band V	4233	VH	TN	-11.84	-0.013982	±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	4.51	0.002435	±2.5	PASS
Band II	9262	VN	-20	9.94	0.005368	±2.5	PASS
Band II	9262	VN	-10	-12.85	-0.006940	±2.5	PASS
Band II	9262	VN	0	1.45	0.000783	±2.5	PASS
Band II	9262	VN	10	-5.67	-0.003062	±2.5	PASS
Band II	9262	VN	20	9.62	0.005194	±2.5	PASS
Band II	9262	VN	30	-13.71	-0.007399	±2.5	PASS
Band II	9262	VN	40	-14.05	-0.007583	±2.5	PASS
Band II	9262	VN	50	9.17	0.004948	±2.5	PASS
Band II	9400	VN	-30	12.50	0.006650	±2.5	PASS
Band II	9400	VN	-20	-14.73	-0.007836	±2.5	PASS
Band II	9400	VN	-10	12.10	0.006434	±2.5	PASS
Band II	9400	VN	0	-14.98	-0.007969	±2.5	PASS
Band II	9400	VN	10	-8.75	-0.004652	±2.5	PASS
Band II	9400	VN	20	-0.90	-0.000476	±2.5	PASS
Band II	9400	VN	30	-5.47	-0.002911	±2.5	PASS
Band II	9400	VN	40	10.15	0.005397	±2.5	PASS
Band II	9400	VN	50	9.43	0.005018	±2.5	PASS
Band II	9538	VN	-30	-1.04	-0.000543	±2.5	PASS
Band II	9538	VN	-20	-8.40	-0.004405	±2.5	PASS
Band II	9538	VN	-10	-7.41	-0.003885	±2.5	PASS
Band II	9538	VN	0	7.54	0.003952	±2.5	PASS
Band II	9538	VN	10	-2.79	-0.001463	±2.5	PASS
Band II	9538	VN	20	-11.98	-0.006279	±2.5	PASS
Band II	9538	VN	30	-5.72	-0.002999	±2.5	PASS
Band II	9538	VN	40	-5.48	-0.002871	±2.5	PASS
Band II	9538	VN	50	5.44	0.002851	±2.5	PASS
Band IV	1312	VN	-30	1.62	0.000946	±2.5	PASS
Band IV	1312	VN	-20	-7.58	-0.004428	±2.5	PASS
Band IV	1312	VN	-10	7.81	0.004563	±2.5	PASS
Band IV	1312	VN	0	-3.23	-0.001885	±2.5	PASS
Band IV	1312	VN	10	-7.01	-0.004095	±2.5	PASS

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Band IV	1312	VN	20	3.65	0.002129	±2.5	PASS
Band IV	1312	VN	30	-7.15	-0.004177	±2.5	PASS
Band IV	1312	VN	40	-1.58	-0.000925	±2.5	PASS
Band IV	1312	VN	50	7.04	0.004114	±2.5	PASS
Band IV	1413	VN	-30	4.21	0.002429	±2.5	PASS
Band IV	1413	VN	-20	-10.74	-0.006197	±2.5	PASS
Band IV	1413	VN	-10	-8.83	-0.005099	±2.5	PASS
Band IV	1413	VN	0	-7.78	-0.004488	±2.5	PASS
Band IV	1413	VN	10	12.42	0.007166	±2.5	PASS
Band IV	1413	VN	20	-4.85	-0.002799	±2.5	PASS
Band IV	1413	VN	30	2.43	0.001400	±2.5	PASS
Band IV	1413	VN	40	3.35	0.001932	±2.5	PASS
Band IV	1413	VN	50	-2.07	-0.001193	±2.5	PASS
Band IV	1513	VN	-30	-10.65	-0.006076	±2.5	PASS
Band IV	1513	VN	-20	-4.33	-0.002473	±2.5	PASS
Band IV	1513	VN	-10	13.25	0.007560	±2.5	PASS
Band IV	1513	VN	0	-8.66	-0.004942	±2.5	PASS
Band IV	1513	VN	10	-4.97	-0.002835	±2.5	PASS
Band IV	1513	VN	20	-10.12	-0.005773	±2.5	PASS
Band IV	1513	VN	30	-0.25	-0.000145	±2.5	PASS
Band IV	1513	VN	40	1.94	0.001106	±2.5	PASS
Band IV	1513	VN	50	-9.42	-0.005375	±2.5	PASS
Band V	4132	VN	-30	-4.01	-0.004852	±2.5	PASS
Band V	4132	VN	-20	-11.68	-0.014129	±2.5	PASS
Band V	4132	VN	-10	3.63	0.004392	±2.5	PASS
Band V	4132	VN	0	-6.66	-0.008059	±2.5	PASS
Band V	4132	VN	10	-11.92	-0.014429	±2.5	PASS
Band V	4132	VN	20	-5.28	-0.006384	±2.5	PASS
Band V	4132	VN	30	-9.05	-0.010953	±2.5	PASS
Band V	4132	VN	40	-10.09	-0.012215	±2.5	PASS
Band V	4132	VN	50	-12.23	-0.014802	±2.5	PASS
Band V	4182	VN	-30	14.61	0.017464	±2.5	PASS
Band V	4182	VN	-20	-6.77	-0.008094	±2.5	PASS
Band V	4182	VN	-10	6.16	0.007366	±2.5	PASS
Band V	4182	VN	0	-7.77	-0.009291	±2.5	PASS
Band V	4182	VN	10	1.42	0.001699	±2.5	PASS
Band V	4182	VN	20	0.34	0.000411	±2.5	PASS

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Band V	4182	VN	40	1.20	0.001429	±2.5	PASS
Band V	4182	VN	50	-8.14	-0.009729	±2.5	PASS
Band V	4233	VN	-30	11.76	0.013886	±2.5	PASS
Band V	4233	VN	-20	9.69	0.011447	±2.5	PASS
Band V	4233	VN	-10	-6.02	-0.007116	±2.5	PASS
Band V	4233	VN	0	-5.92	-0.006987	±2.5	PASS
Band V	4233	VN	10	8.64	0.010209	±2.5	PASS
Band V	4233	VN	20	7.24	0.008547	±2.5	PASS
Band V	4233	VN	30	10.11	0.011939	±2.5	PASS
Band V	4233	VN	40	2.16	0.002549	±2.5	PASS
Band V	4233	VN	50	-9.69	-0.011444	±2.5	PASS

The End

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