

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	22.94	23.44	33.00	PASS
Band II	9400	23.01	23.51	33.00	PASS
Band II	9538	22.95	23.45	33.00	PASS
Band IV	4132	22.83	23.33	30.00	PASS
Band IV	4182	22.74	23.24	30.00	PASS
Band IV	4233	22.78	23.28	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.34	21.69	38.45	PASS
Band V	4182	23.36	21.71	38.45	PASS
Band V	4233	23.31	21.66	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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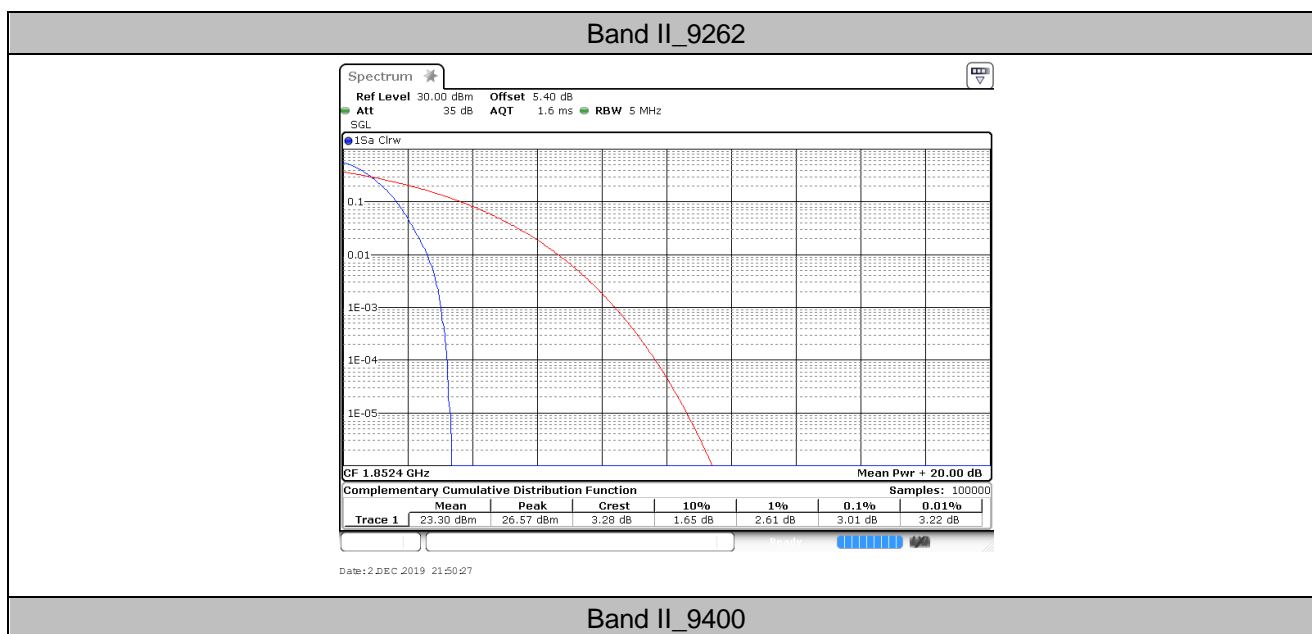
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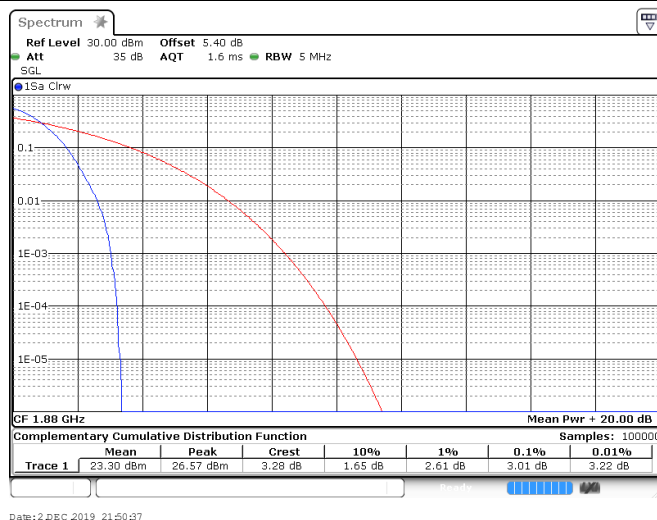
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

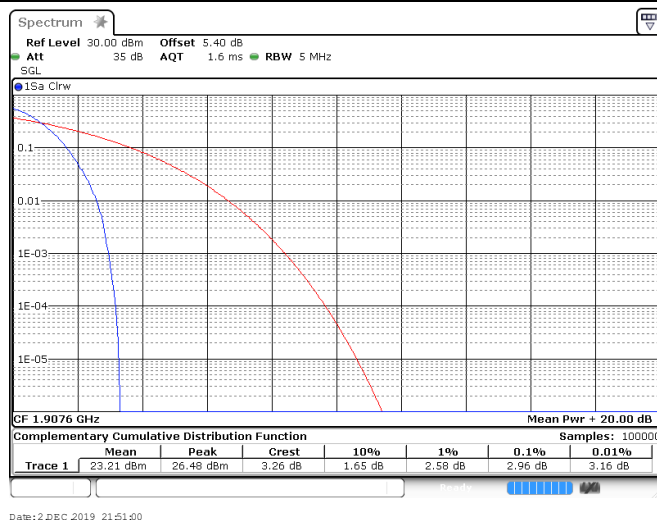
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.01	13	PASS
Band II	9400	3.01	13	PASS
Band II	9538	2.96	13	PASS
Band IV	1312	3.04	13	PASS
Band IV	1413	3.07	13	PASS
Band IV	1513	3.07	13	PASS
Band V	4132	2.72	13	PASS
Band V	4182	2.72	13	PASS
Band V	4233	2.72	13	PASS

2.2. Test Plots



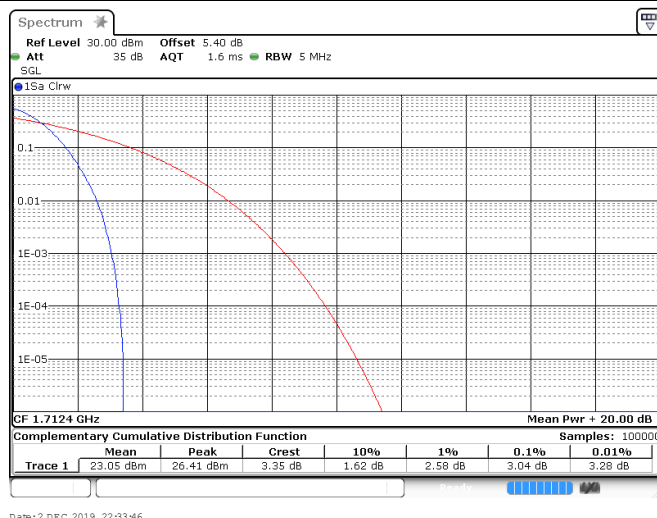


Band II_9538

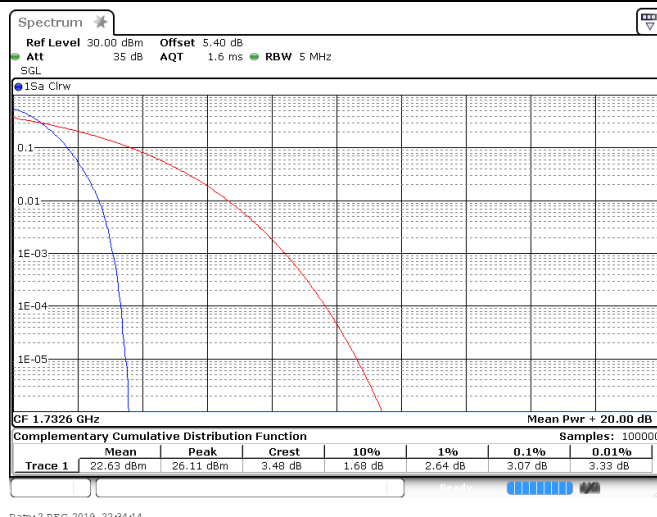


Band IV_1312





Band IV_1413

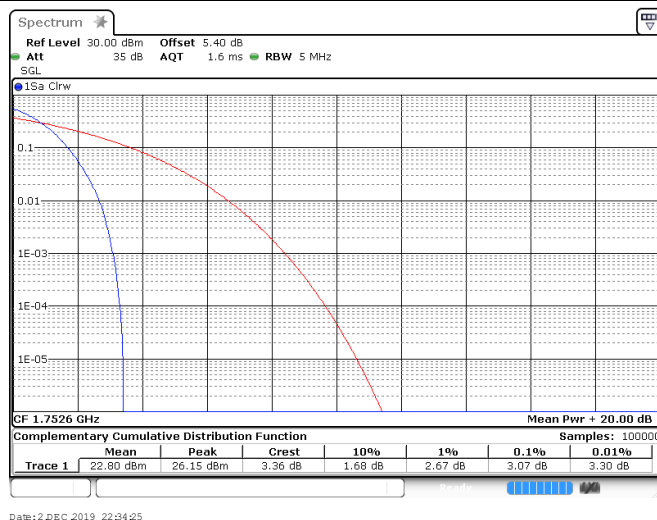


Band IV_1513

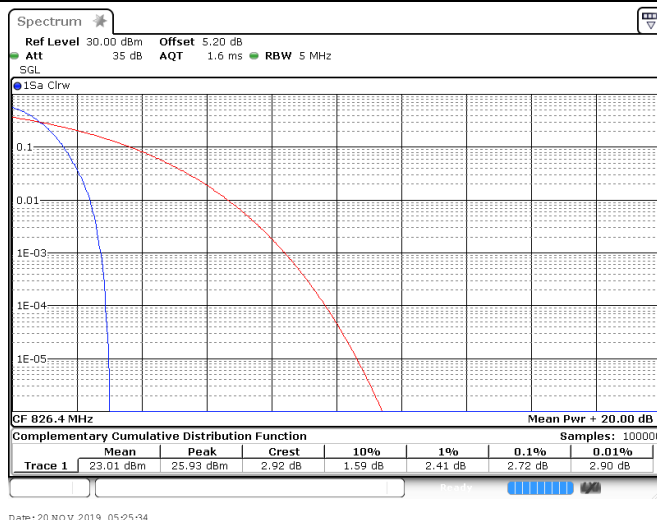


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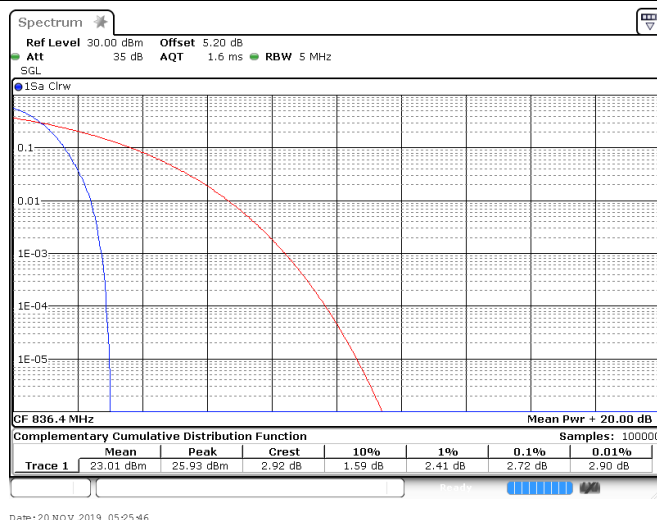


Band V_4132



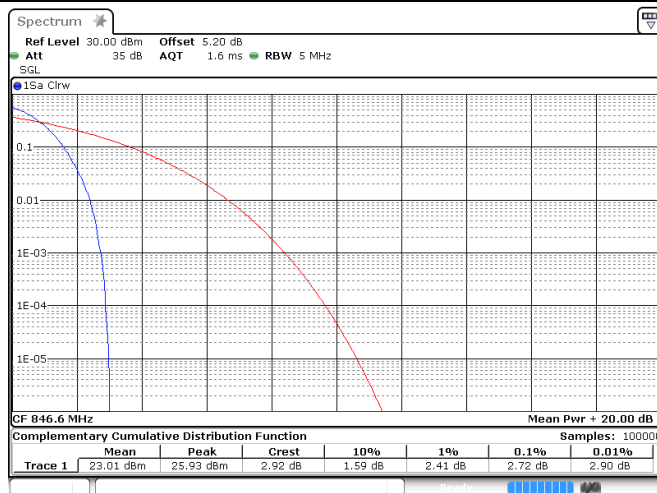
Band V_4182





Date: 20 NOV 2019 05:25:46

Band V_4233



Date: 20 NOV 2019 05:25:57

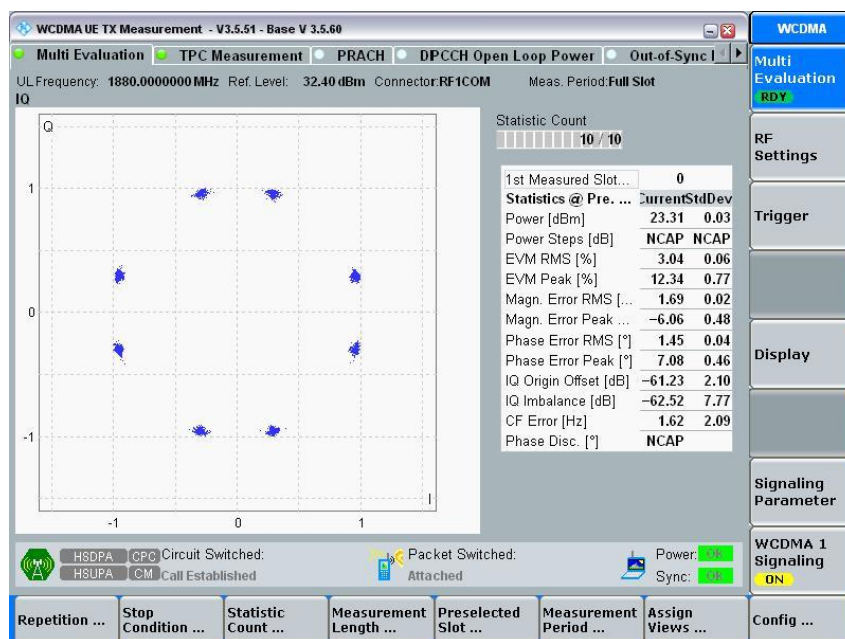


3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH

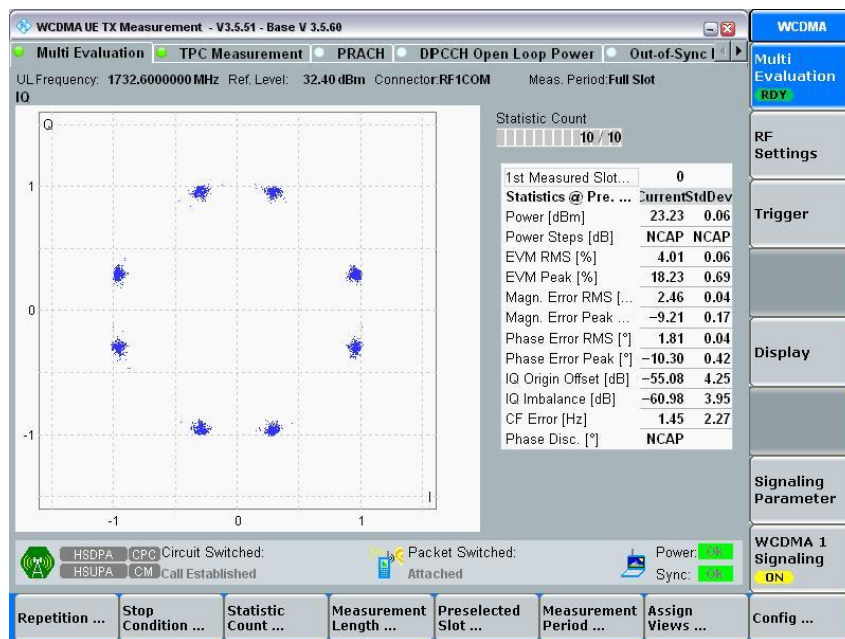


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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

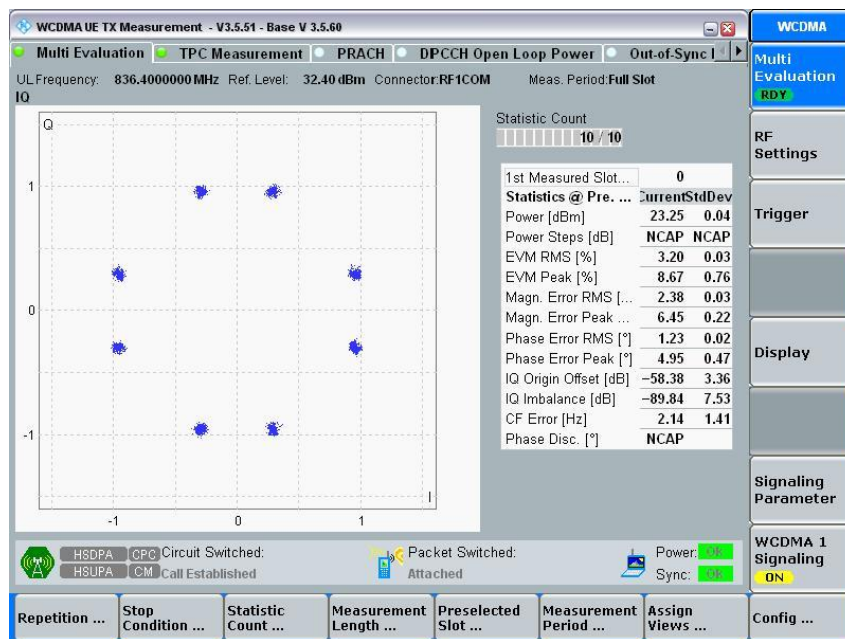
3.2.1.1. Test Channel = MCH



3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



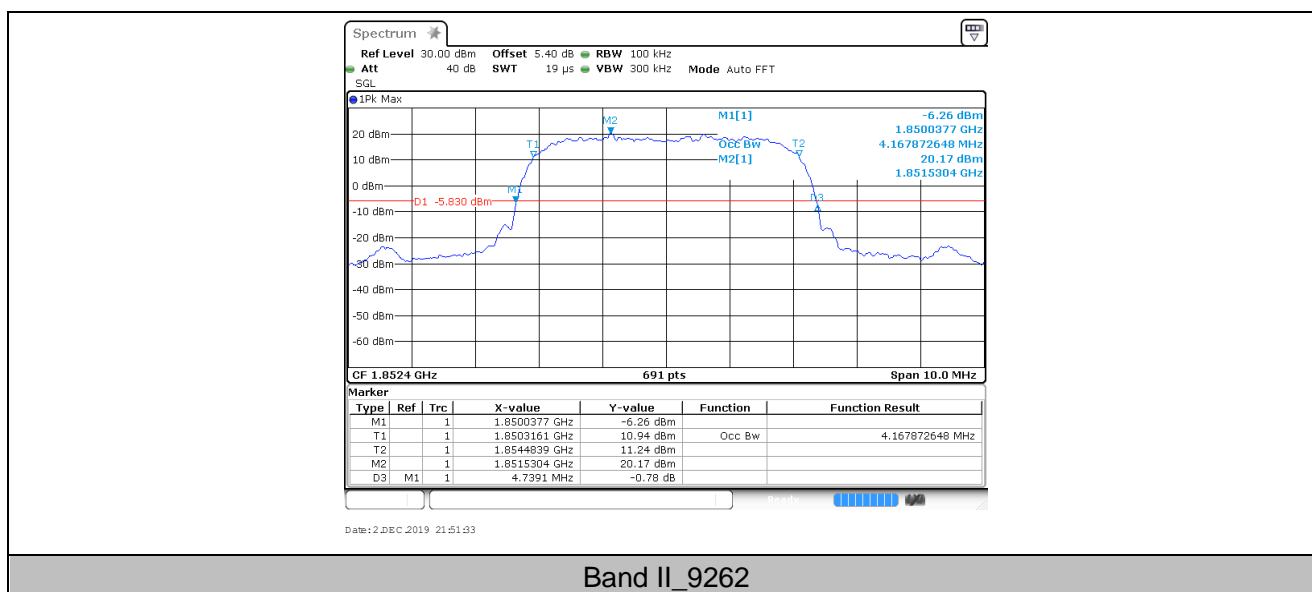


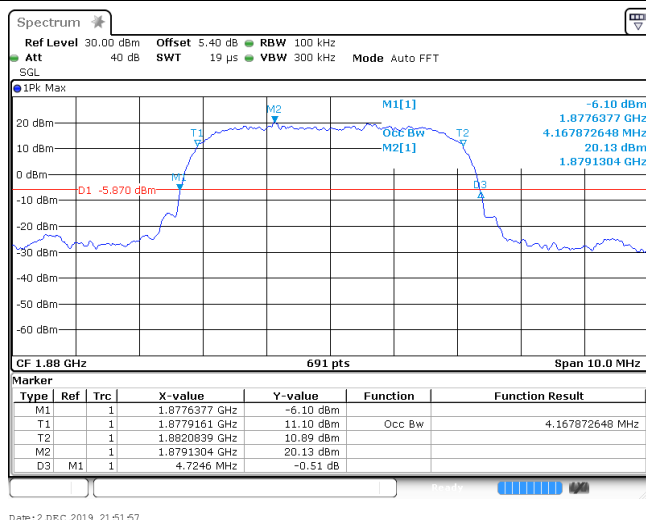
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

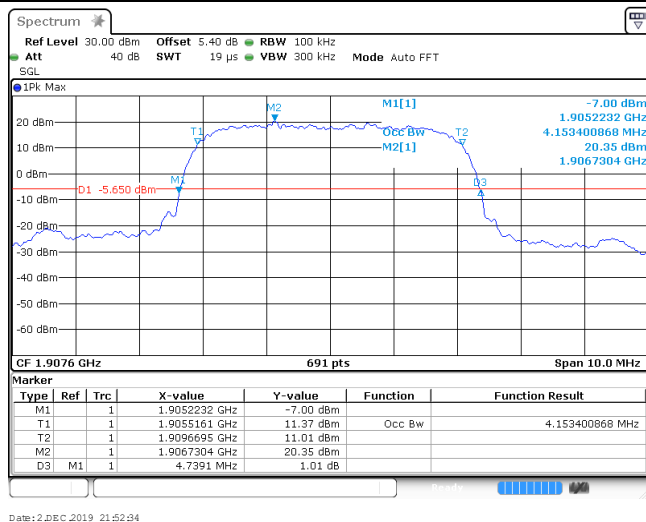
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4739	---	PASS
Band II	9400	4167.9	4725	---	PASS
Band II	9538	4153.4	4739	---	PASS
Band IV	1312	4153.4	4725	---	PASS
Band IV	1413	4167.9	4725	---	PASS
Band IV	1513	4153.4	4725	---	PASS
Band V	4132	4153.4	4754	---	PASS
Band V	4182	4153.4	4725	---	PASS
Band V	4233	4153.4	4754	---	PASS

4.2. Test Plots



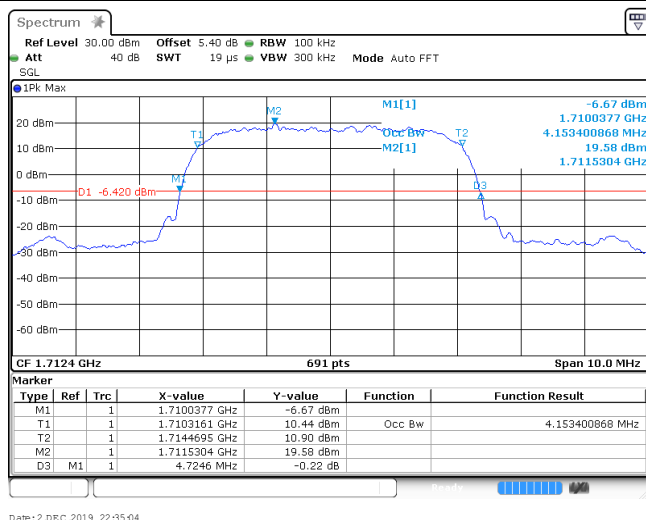


Band II_9400

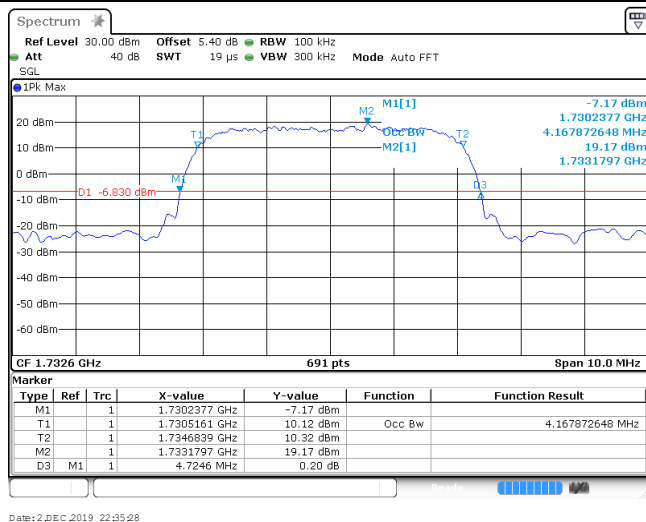


Band II_9538



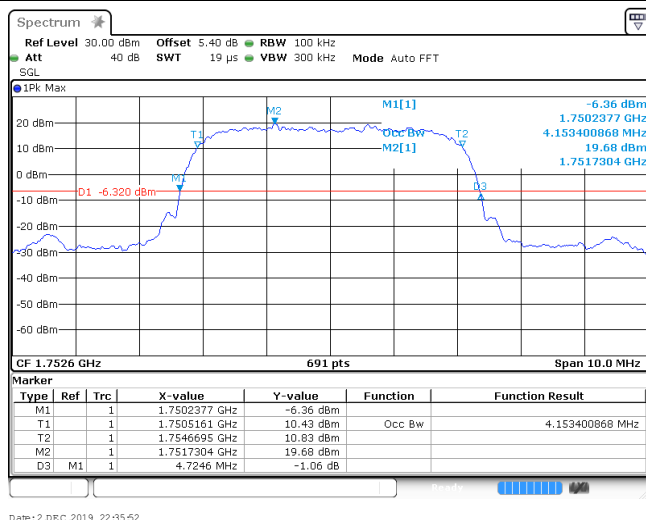


Band IV_1312

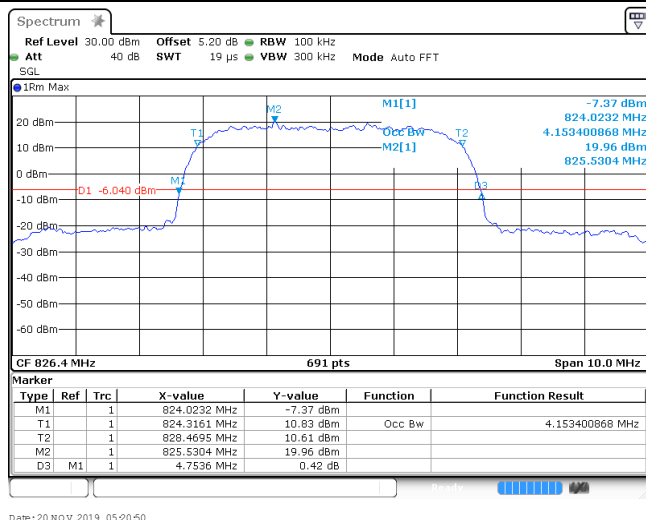


Band IV_1413



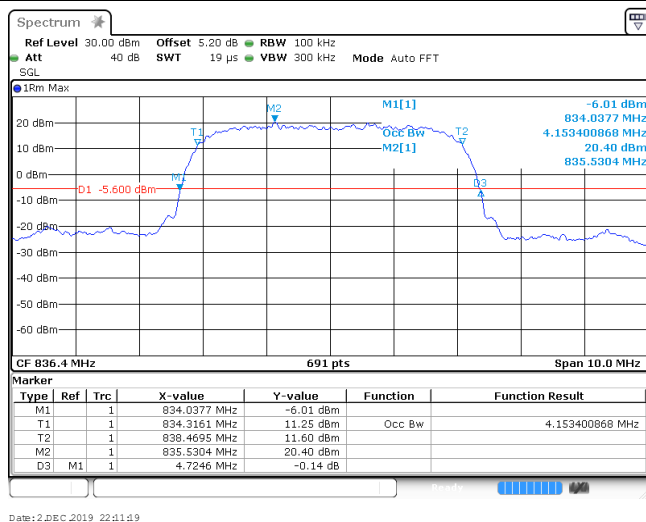


Band IV_1513

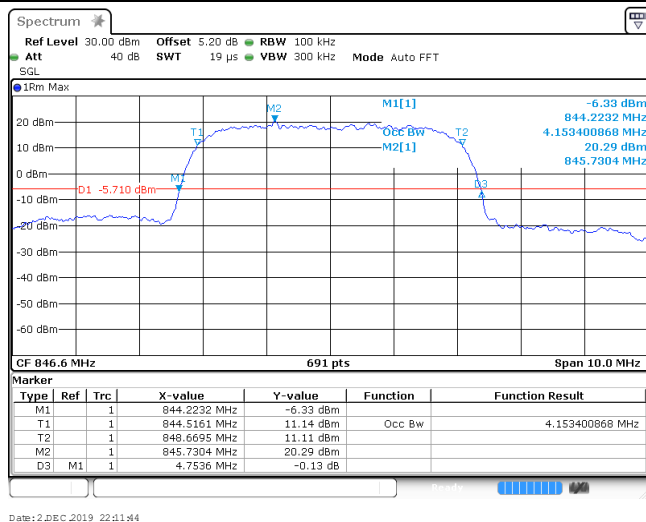


Band V_4132





Band V_4182

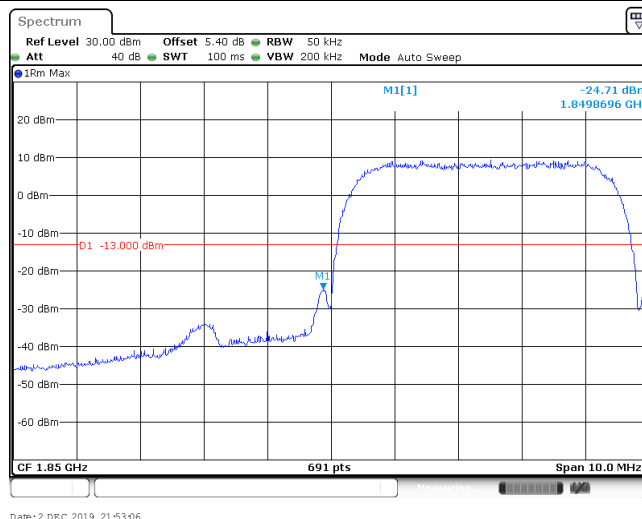


Band V_4233

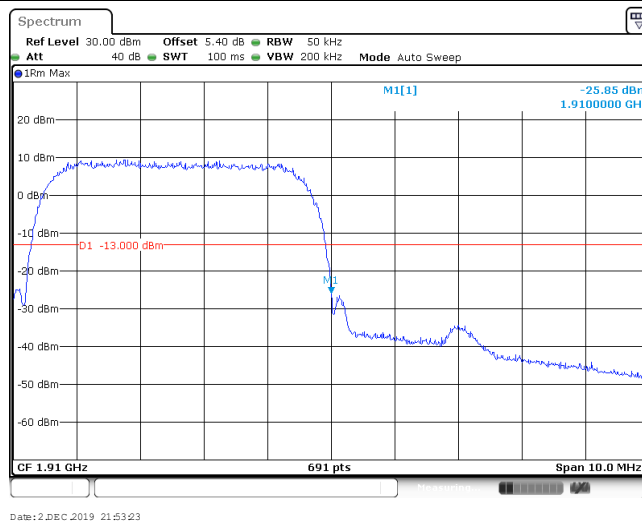


5. Band Edge Compliance

5.1. Test Plots

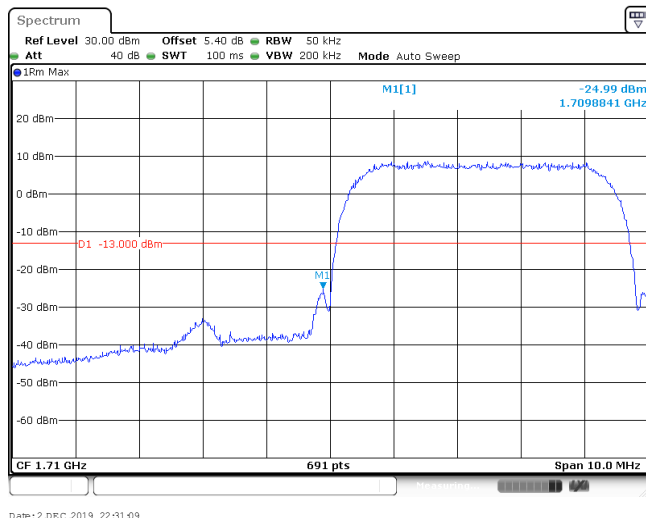


Band II_9262

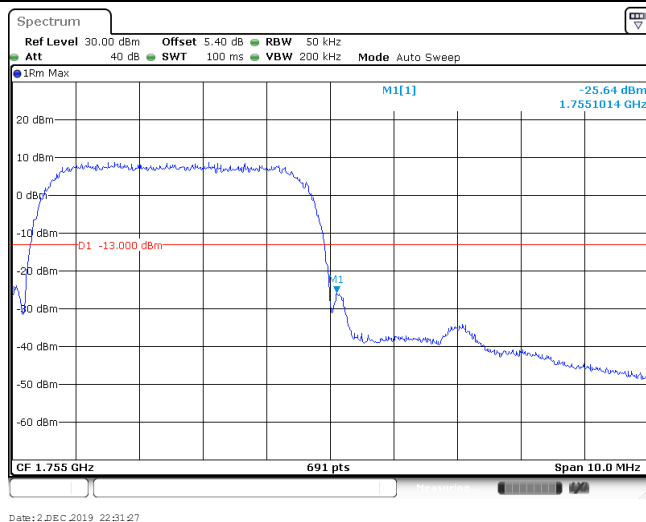


Band II_9538



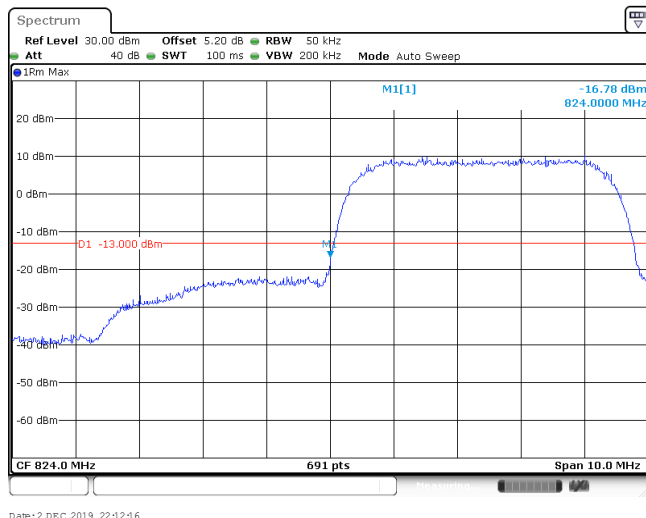


Band IV_1312

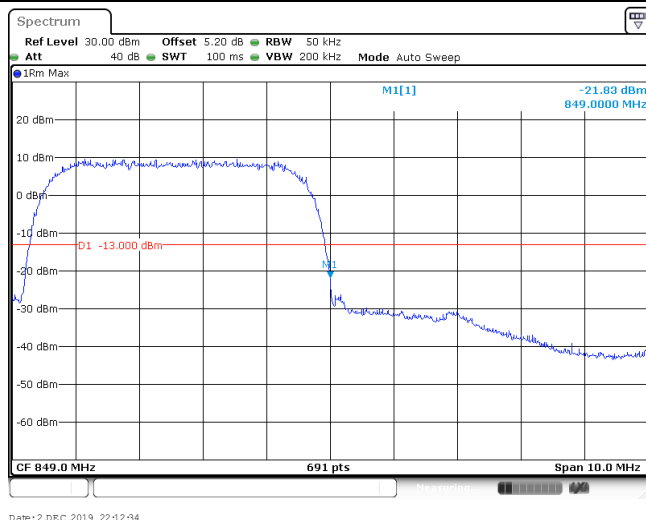


Band IV_1513





Band V_4132



Band V_4233



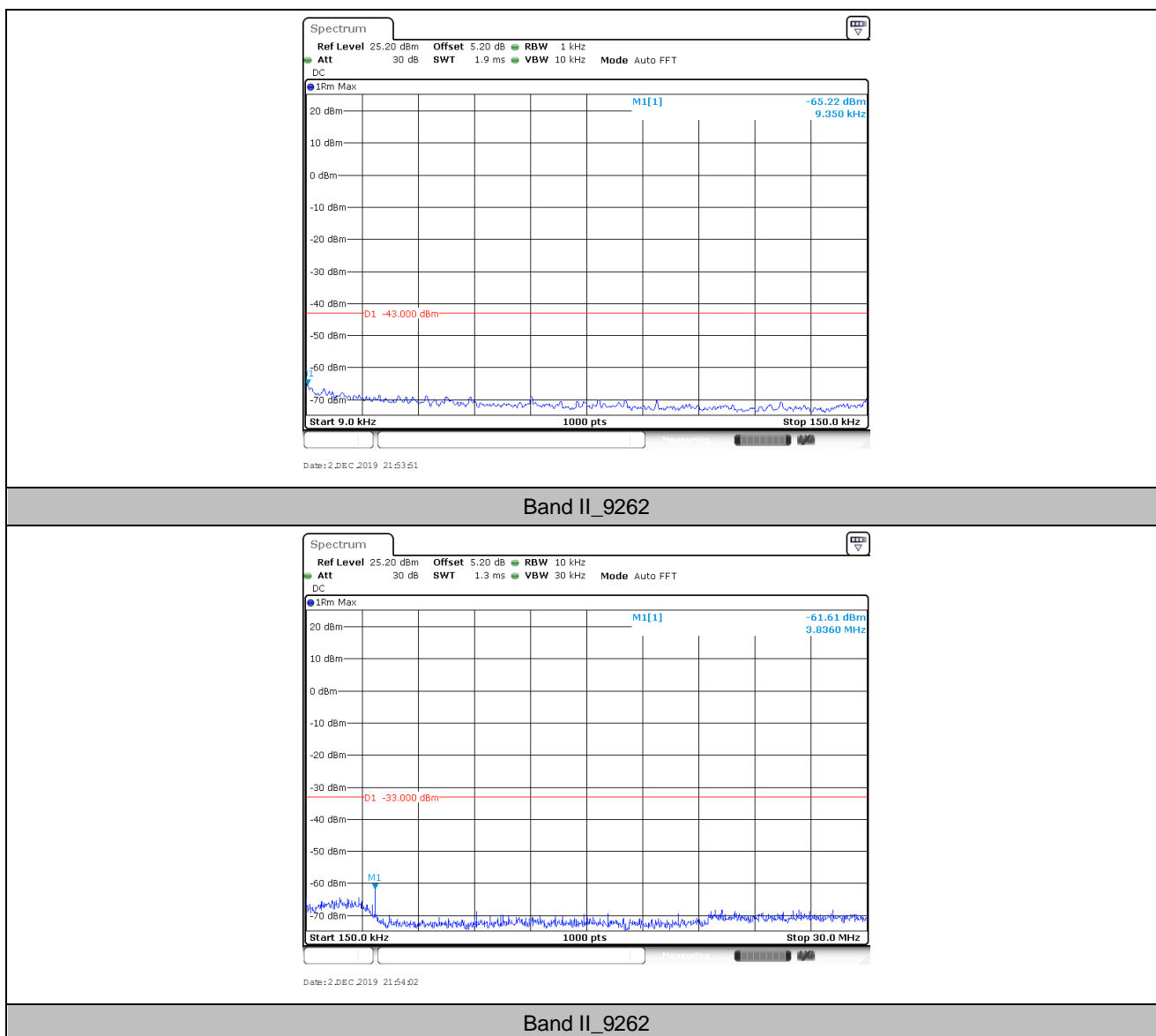


6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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

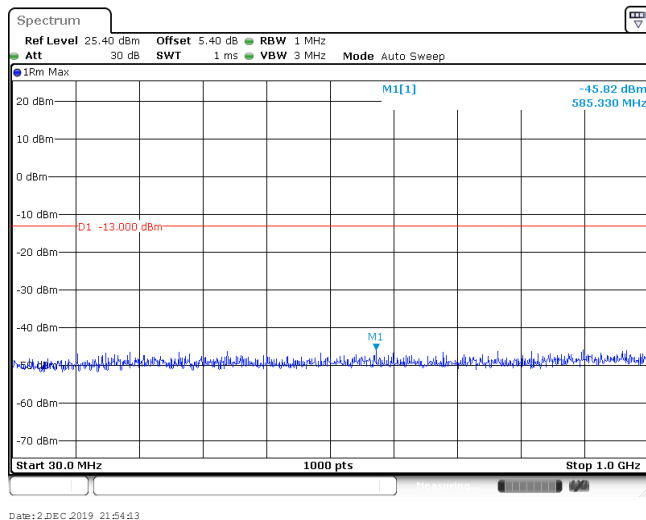


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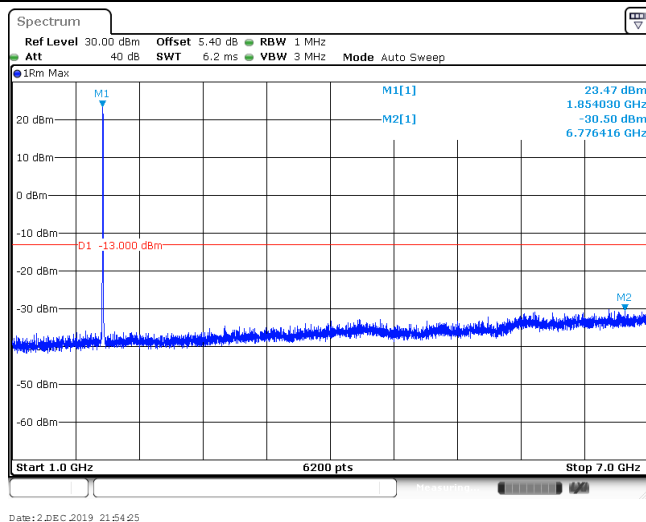
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Band II_9262



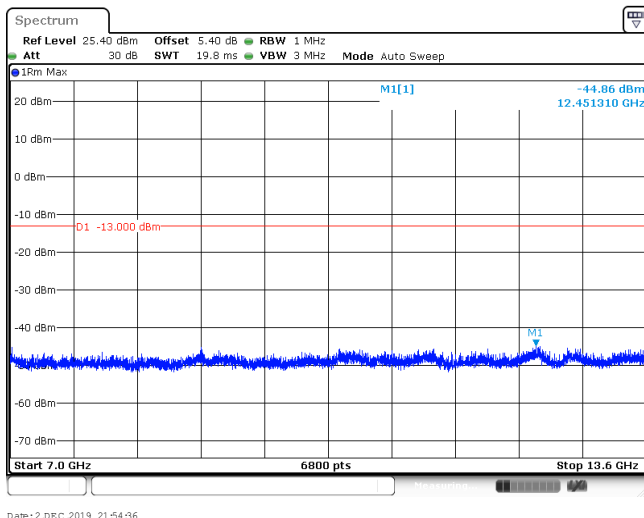
Band II_9262



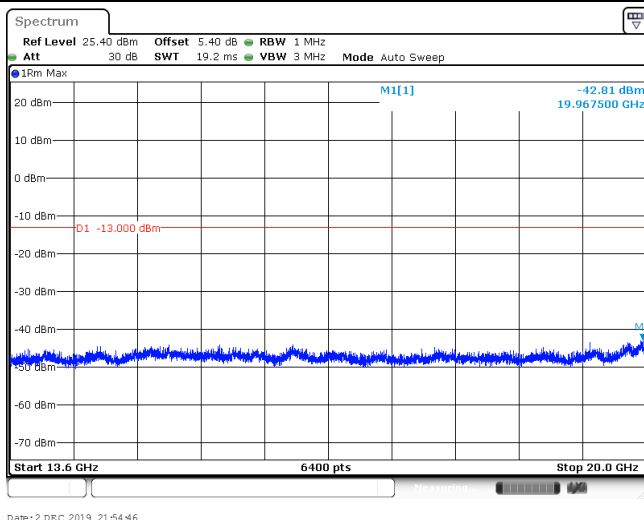
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Band II_9262

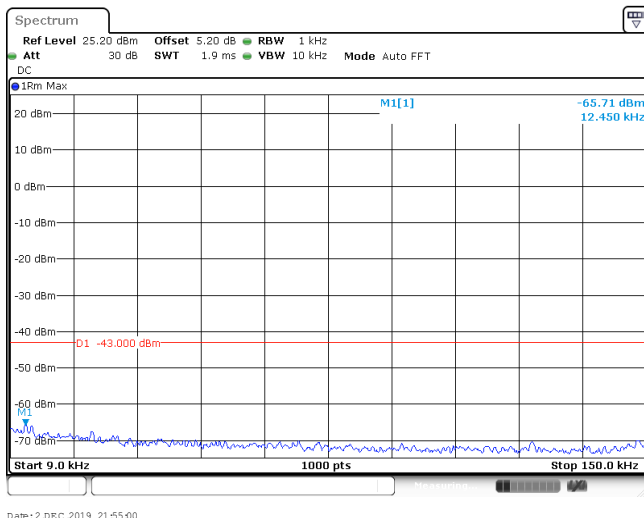


Band II_9262

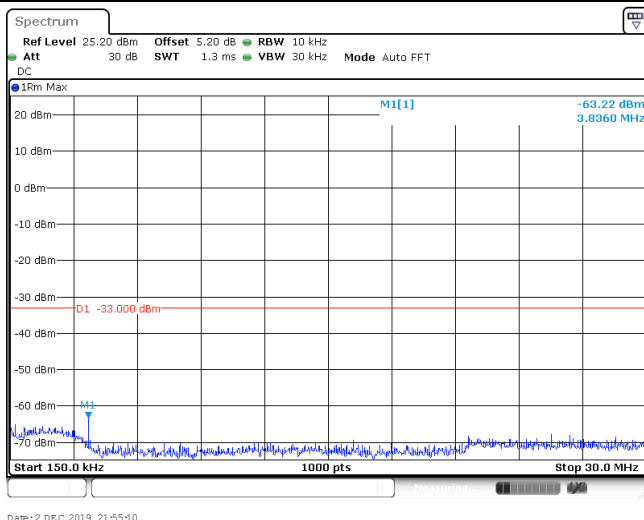


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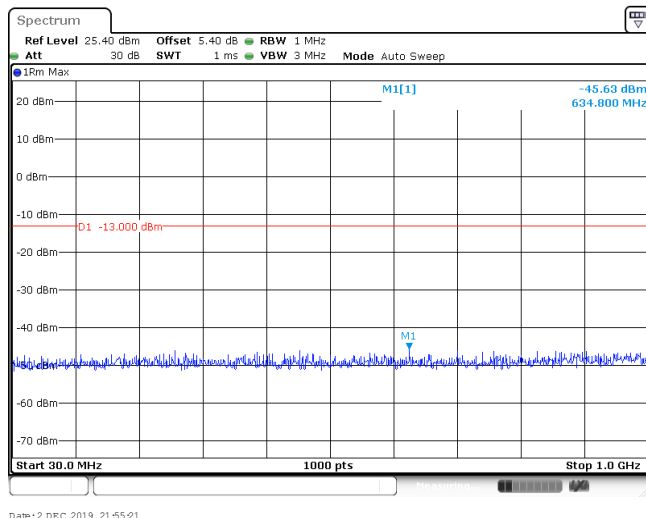
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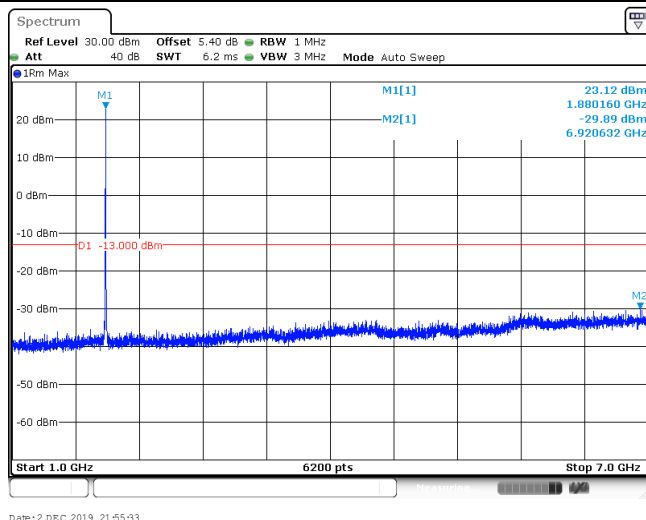
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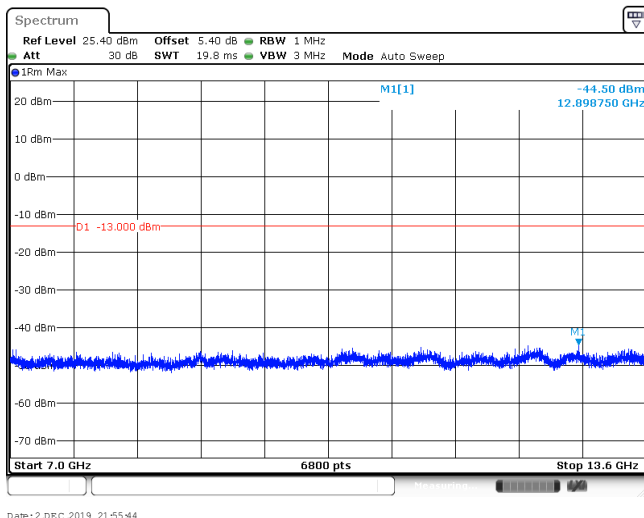
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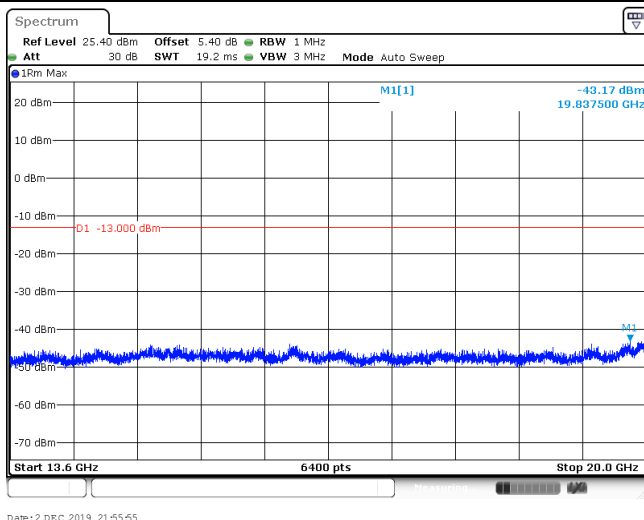
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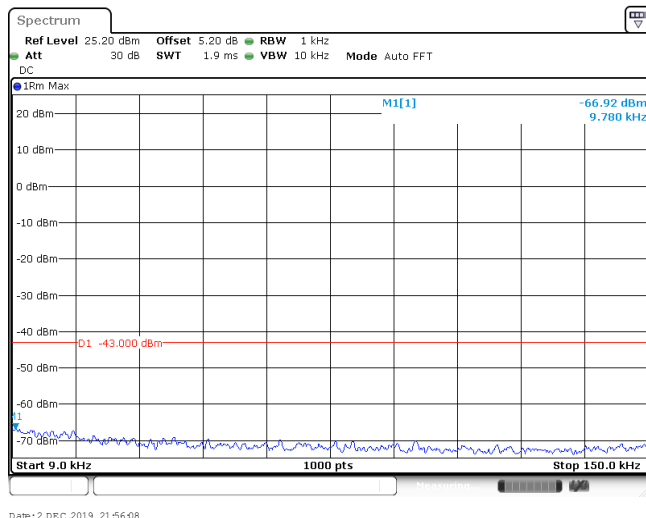
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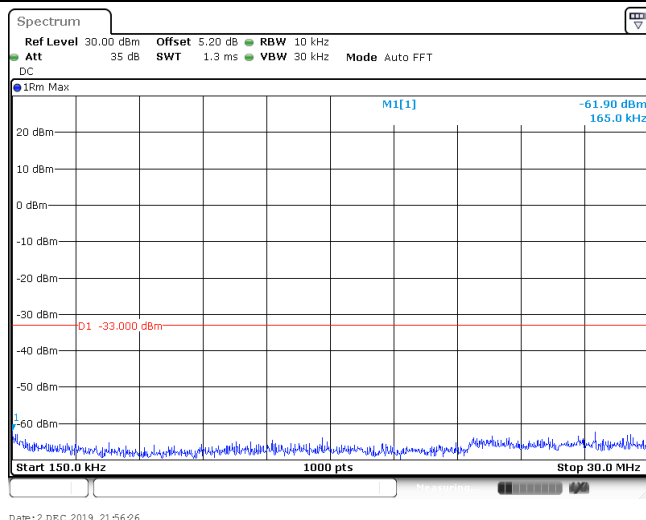
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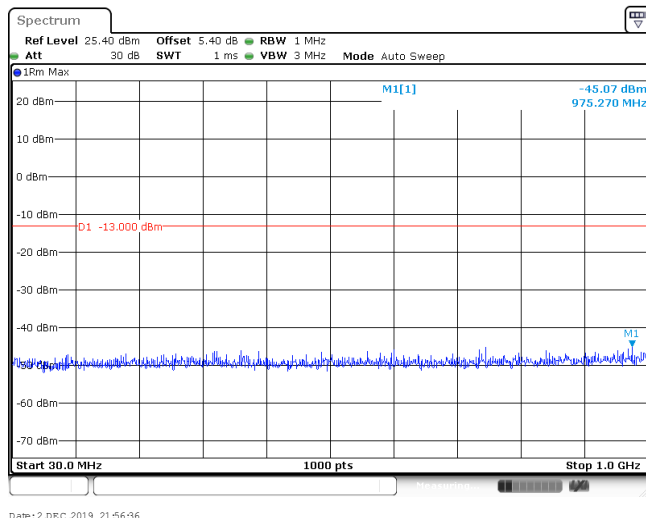
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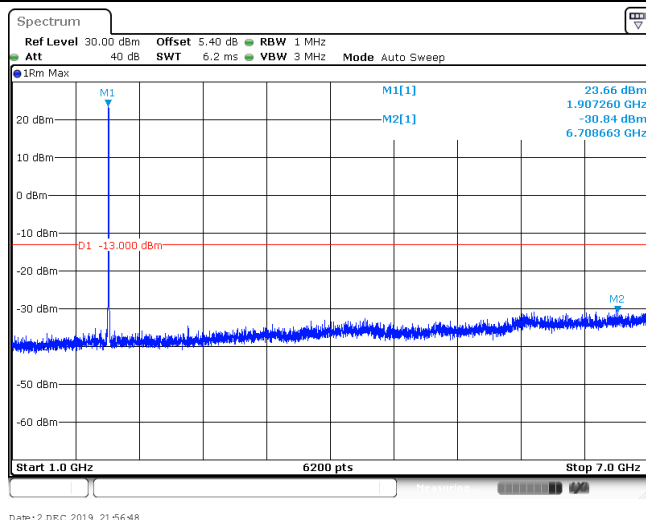
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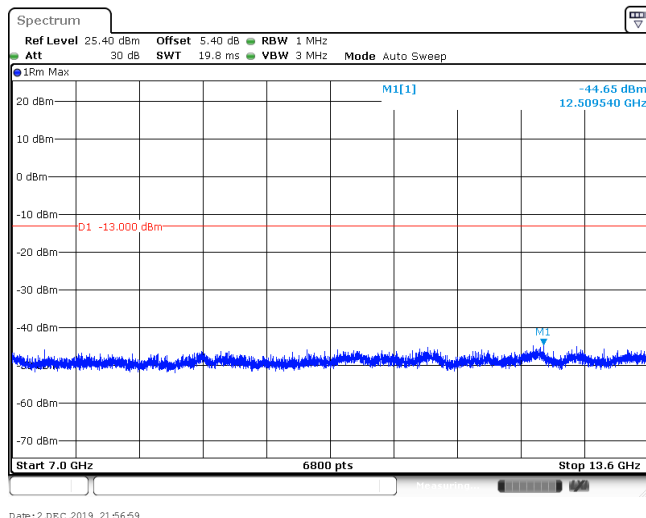
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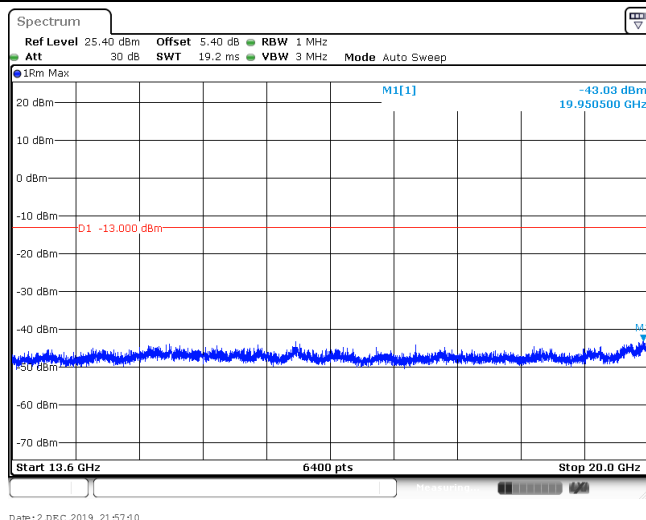
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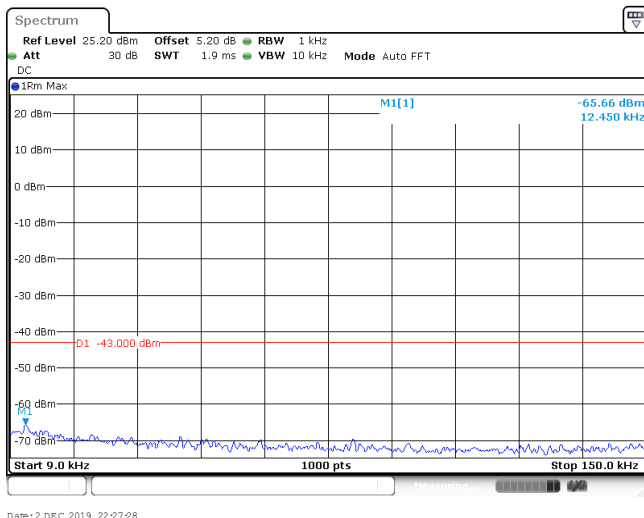
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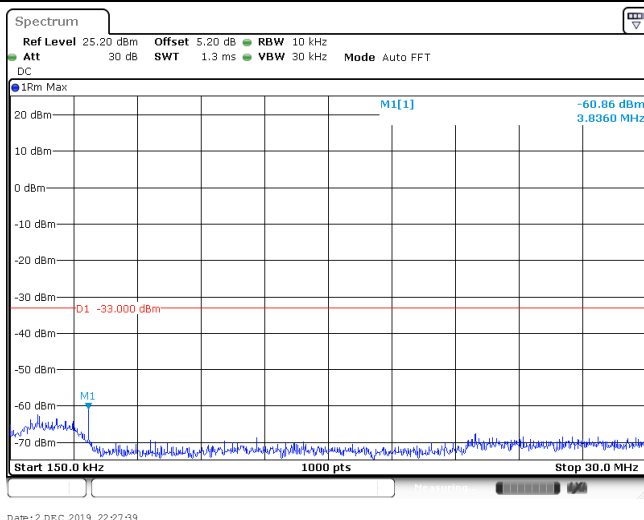
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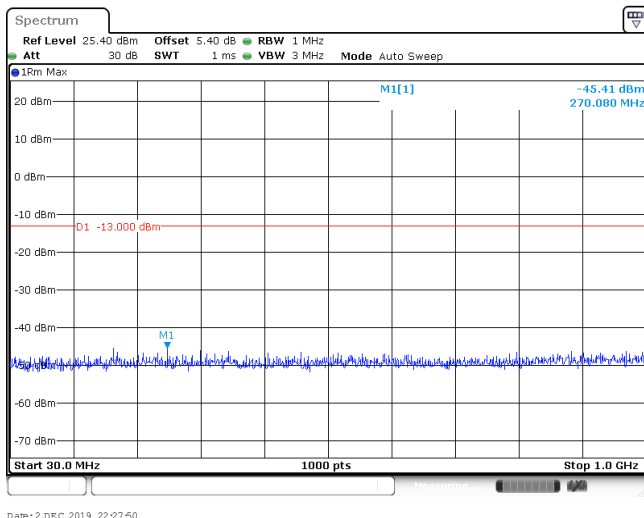


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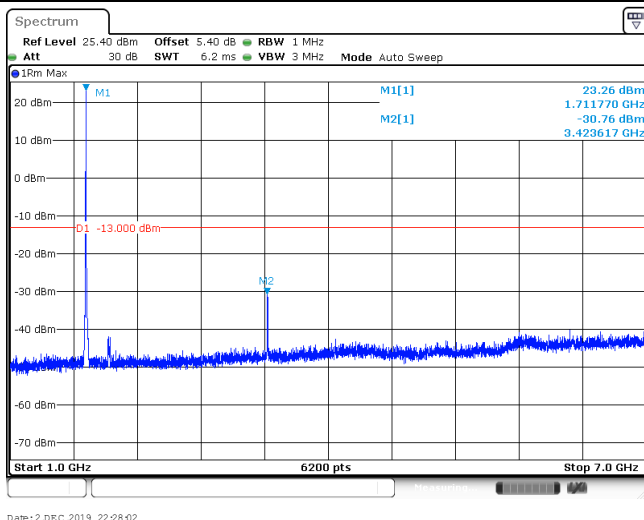


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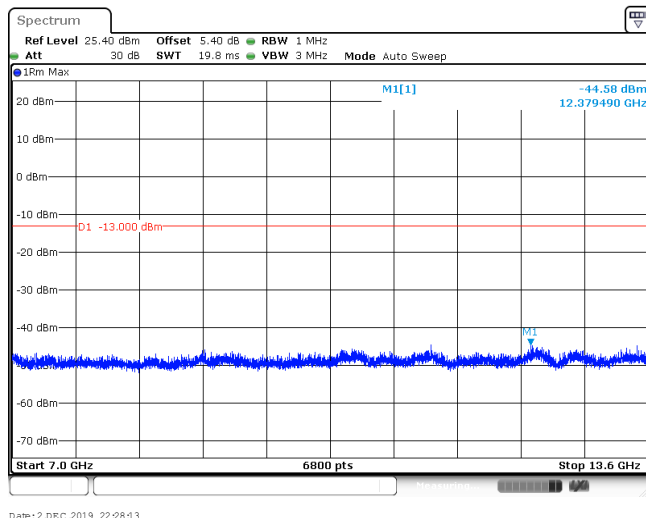
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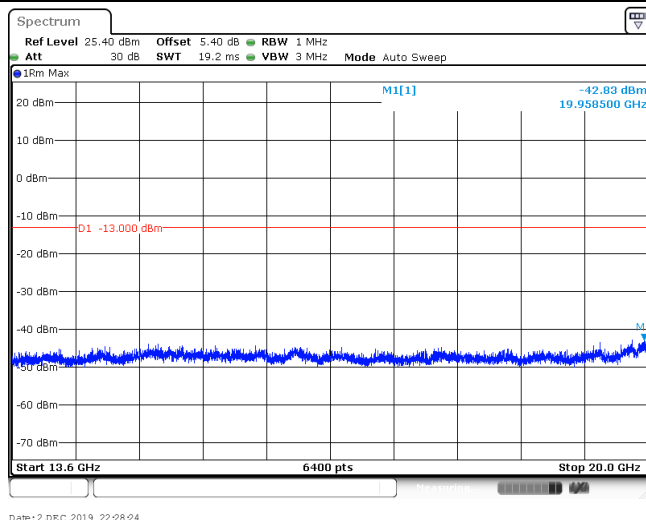
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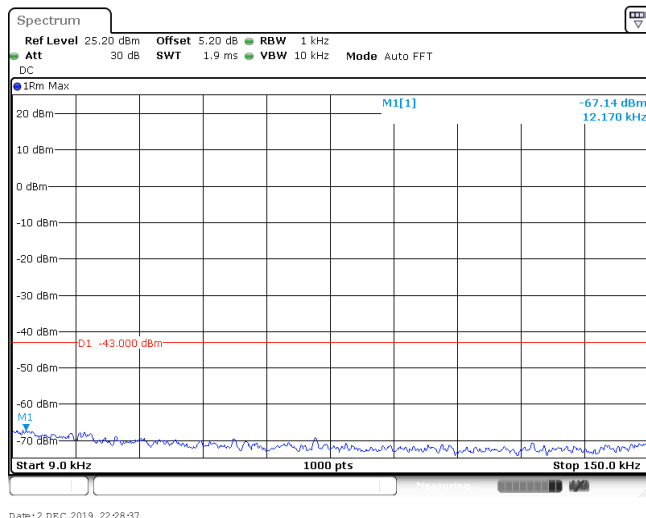
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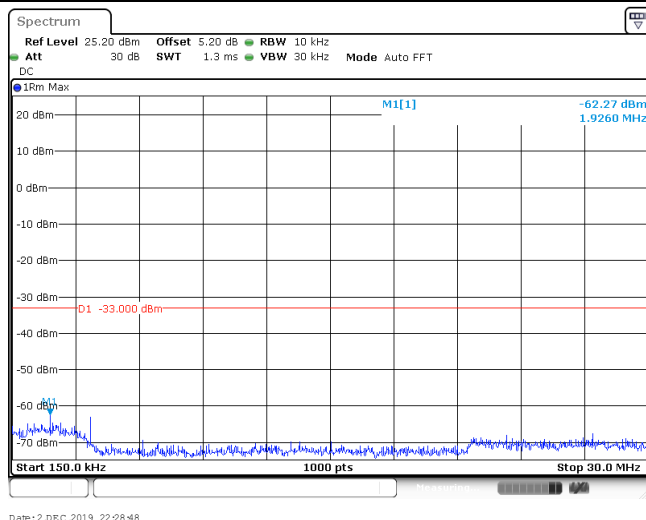
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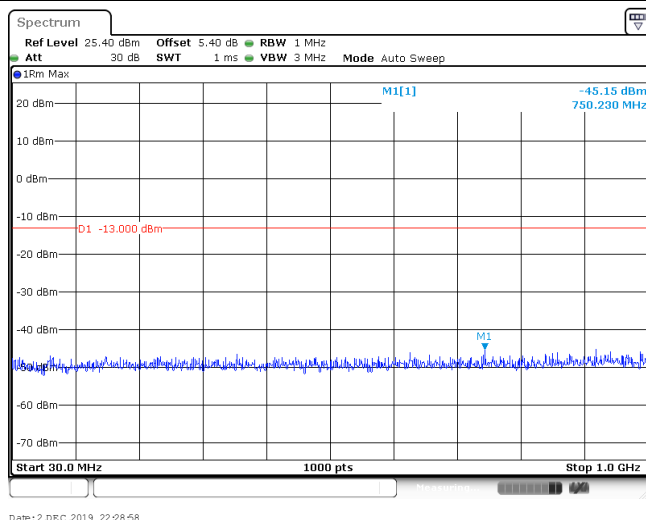
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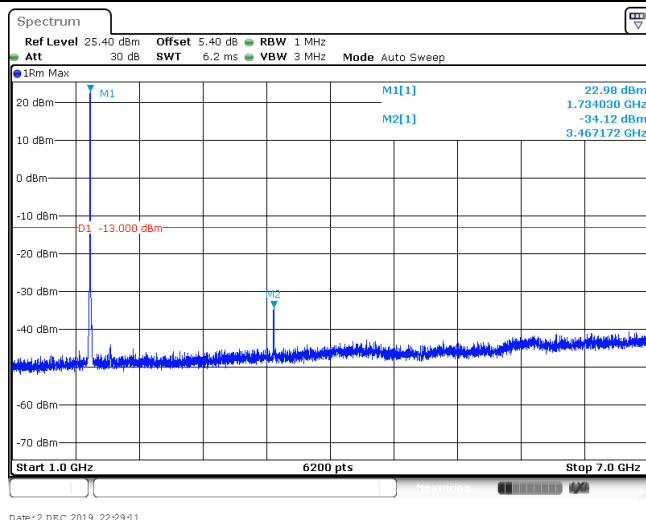
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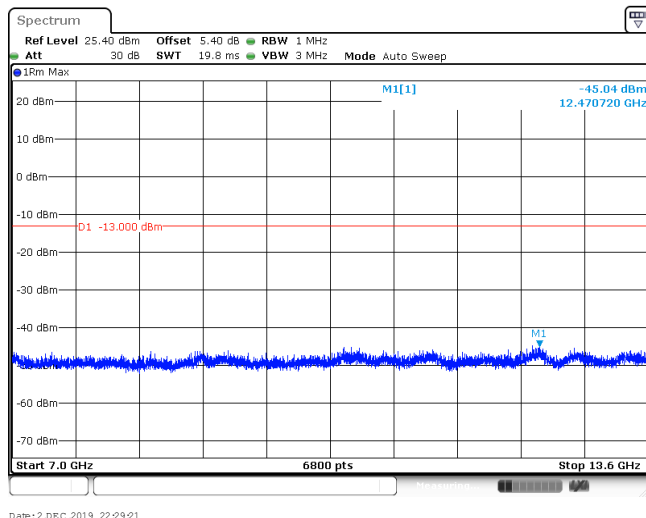


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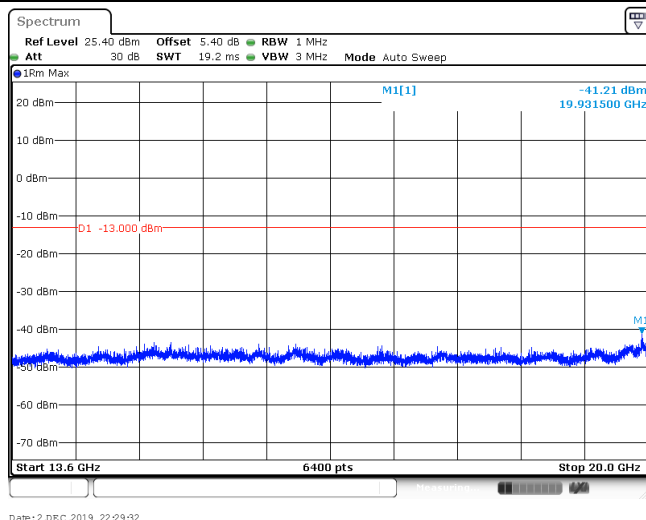


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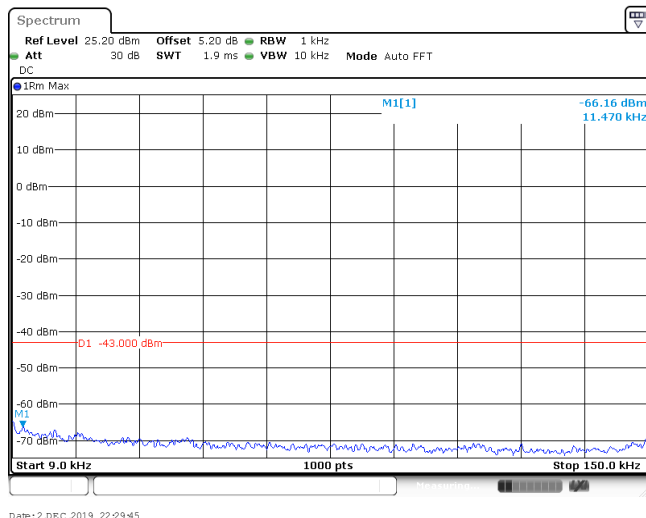


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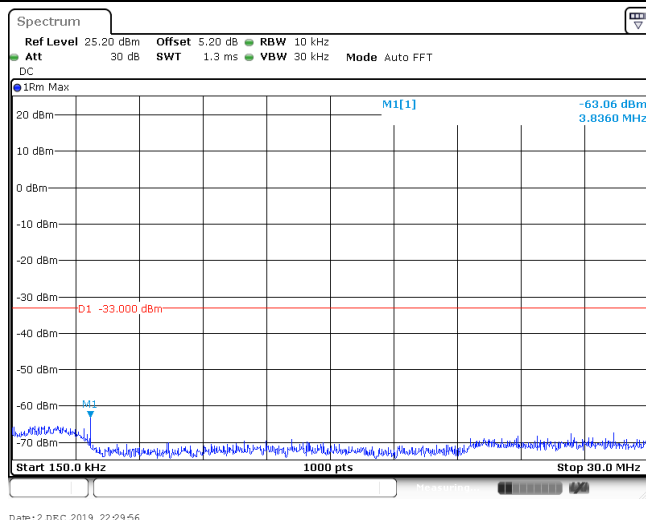


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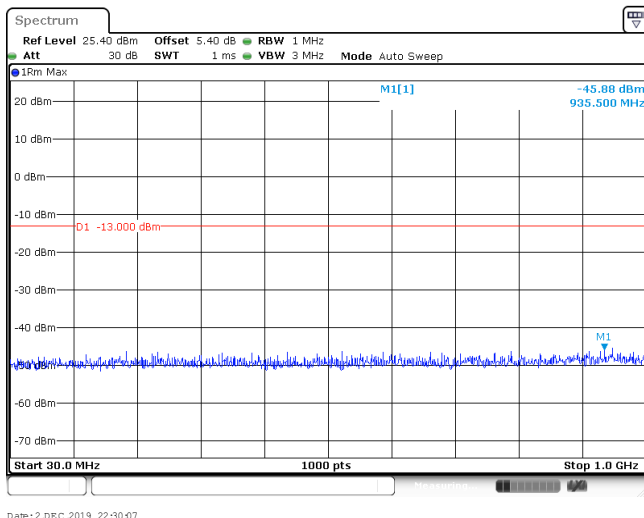
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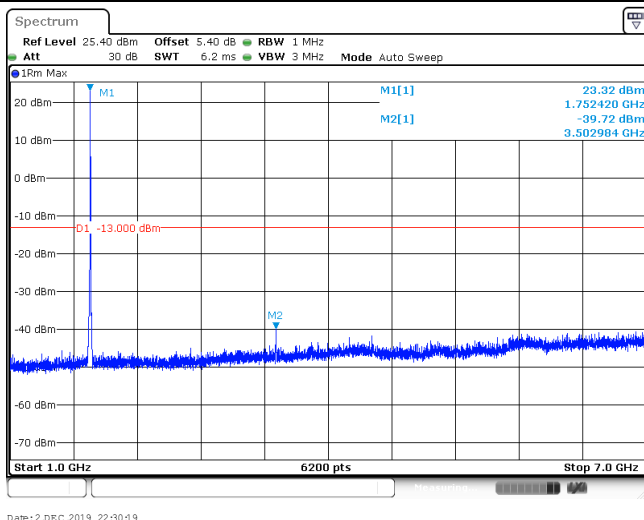
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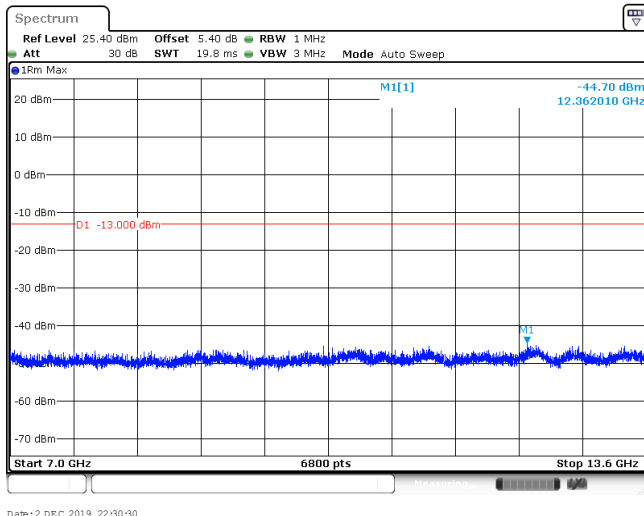
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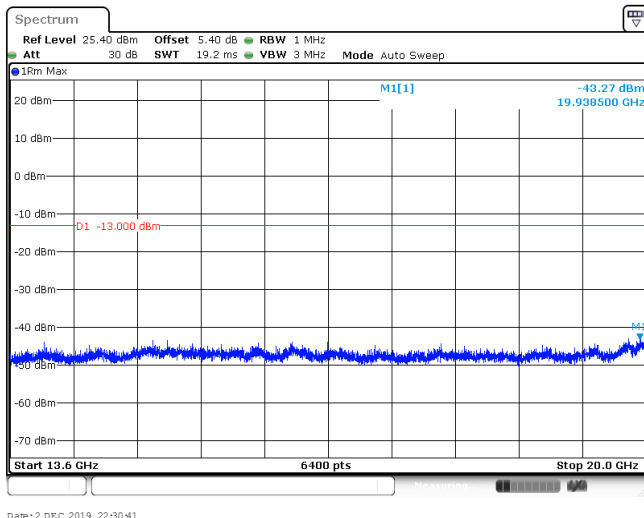
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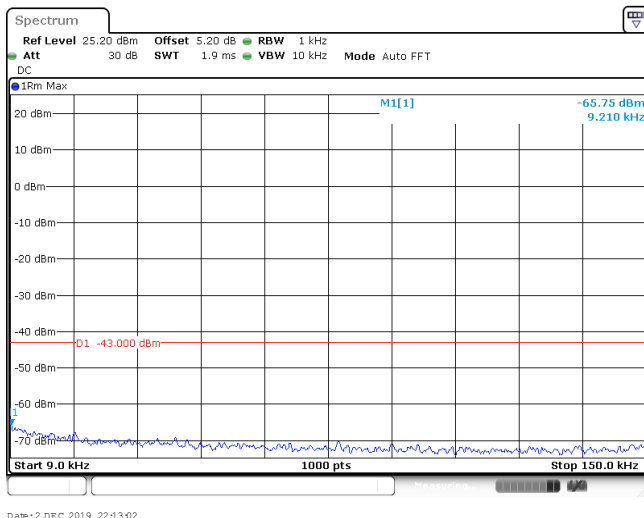
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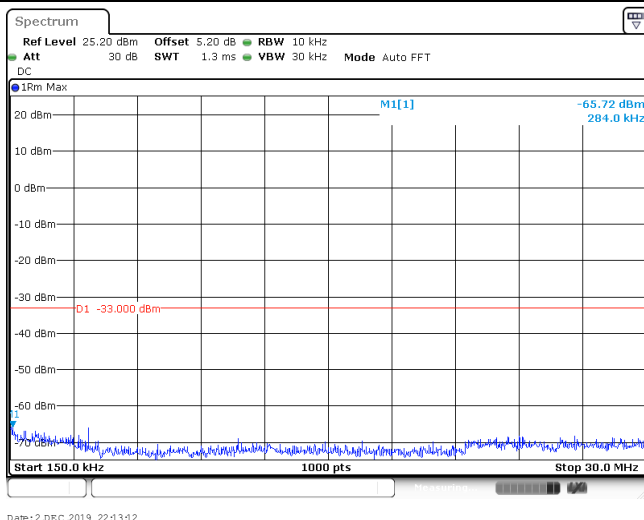
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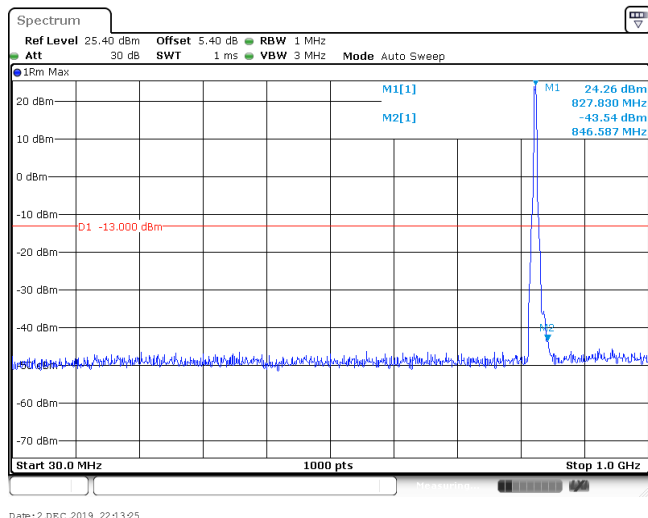
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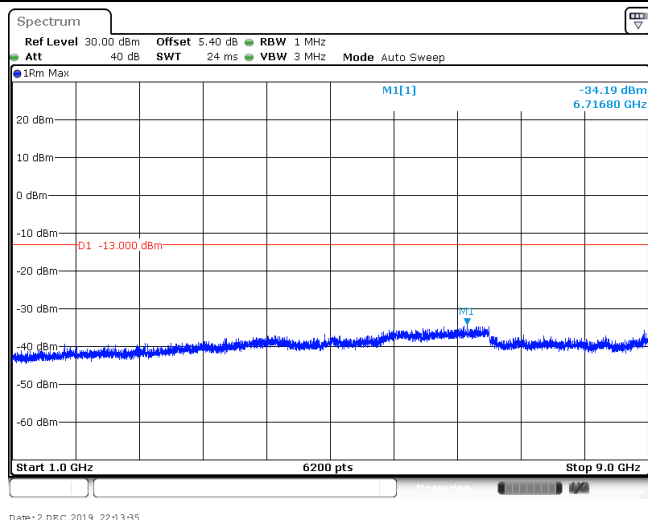
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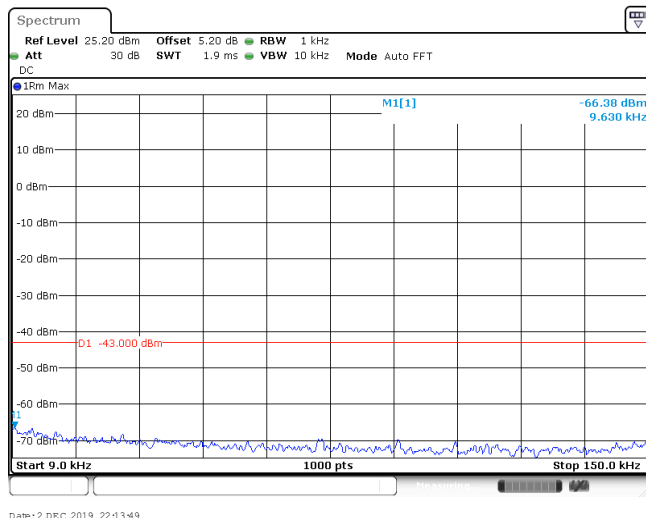
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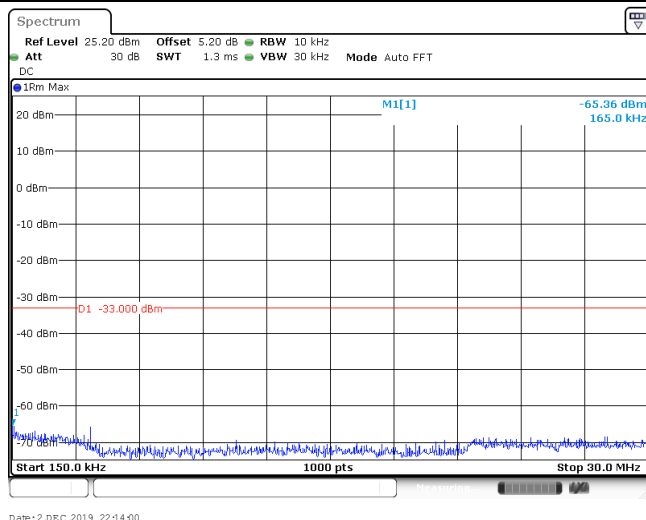
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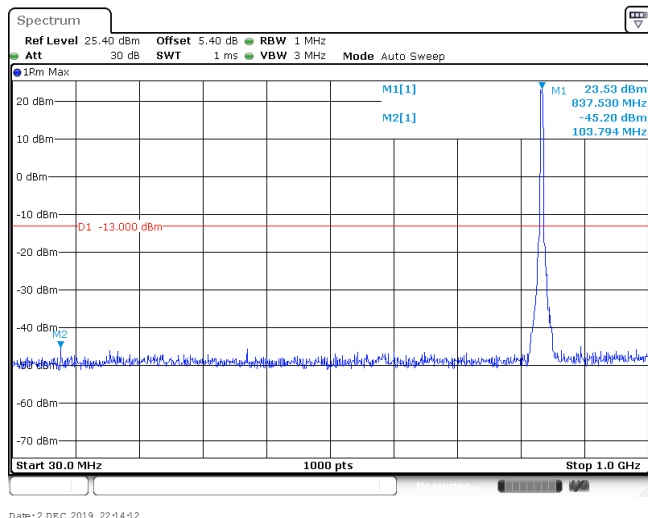


Band V_4182

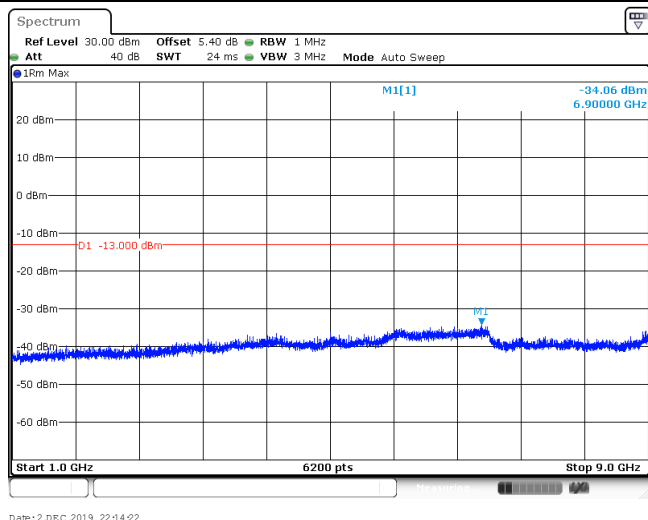


Band V_4182





Band V_4182



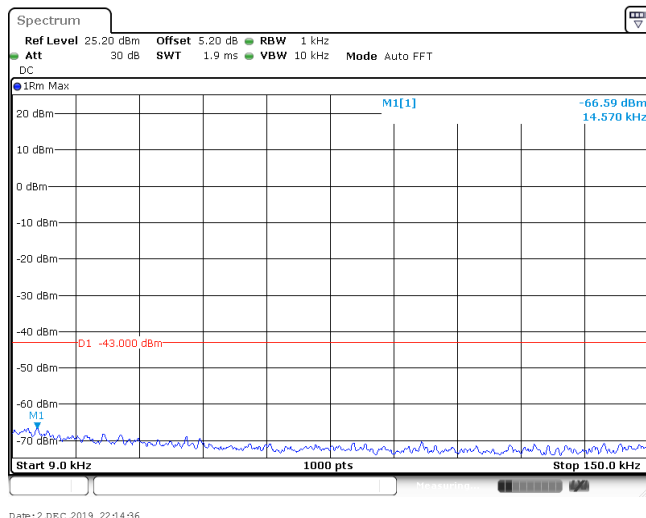
Band V_4182



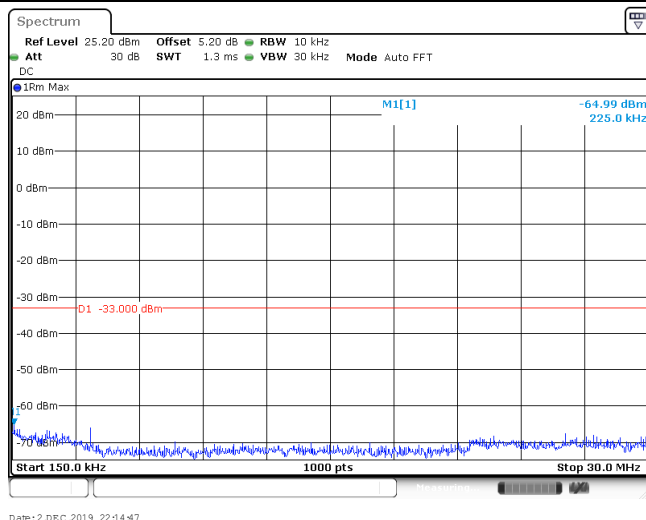
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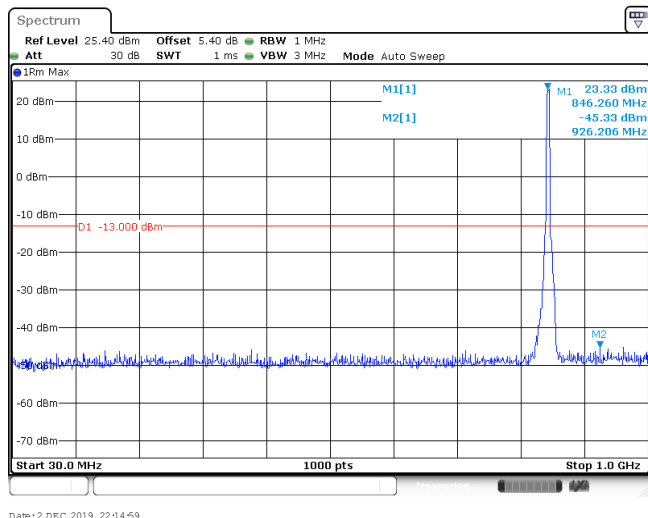


Band V_4233

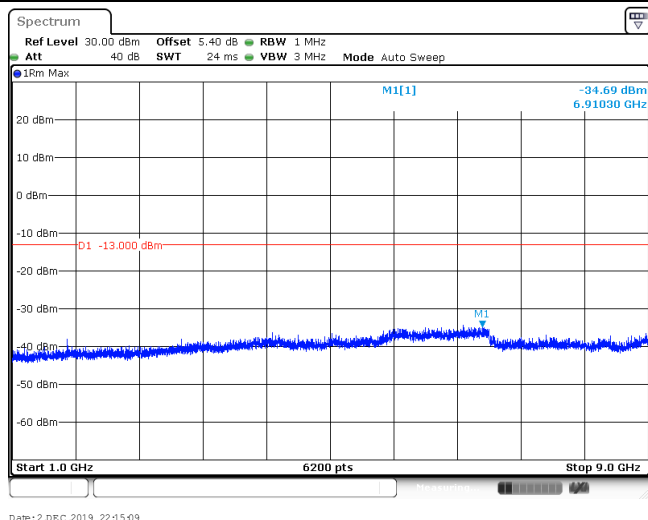


Band V_4233





Band V_4233



Band V_4233



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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II (Main Ant)

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
113.3757	-64.35	-13.00	51.35	215	319	Vertical
775.4338	-62.48	-13.00	49.48	163	4	Vertical
2721.1442	-36.69	-13.00	23.69	232	149	Vertical
5161.0720	-58.49	-13.00	45.49	284	288	Vertical
14482.3827	-43.15	-13.00	30.15	184	193	Vertical
17994.9998	-34.64	-13.00	21.64	194	36	Vertical
41.2041	-62.37	-13.00	49.37	211	66	Horizontal
233.8072	-68.22	-13.00	55.22	184	256	Horizontal
2693.9388	-35.39	-13.00	22.39	321	47	Horizontal
7373.1458	-53.36	-13.00	40.36	252	350	Horizontal
16887.9629	-39.97	-13.00	26.97	262	193	Horizontal
17997.4999	-39.13	-13.00	26.13	248	350	Horizontal





7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
111.2416	-64.19	-13.00	51.19	158	224	Vertical
755.9358	-62.58	-13.00	49.58	196	350	Vertical
2697.9396	-36.59	-13.00	23.59	231	92	Vertical
7388.1463	-53.07	-13.00	40.07	235	350	Vertical
14473.3824	-43.73	-13.00	30.73	168	129	Vertical
17984.9995	-35.18	-13.00	22.18	284	318	Vertical
48.6734	-63.84	-13.00	50.84	185	129	Horizontal
237.1539	-68.19	-13.00	55.19	196	255	Horizontal
2427.0854	-31.03	-13.00	18.03	321	15	Horizontal
7349.1450	-53.81	-13.00	40.81	252	287	Horizontal
16366.4455	-39.56	-13.00	26.56	261	98	Horizontal
17918.9973	-41.21	-13.00	28.21	174	353	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
113.1332	-64.74	-13.00	51.74	185	193	Vertical
809.6280	-60.63	-13.00	47.63	196	130	Vertical
2699.9400	-36.51	-13.00	23.51	321	0	Vertical
7357.1452	-53.11	-13.00	40.11	255	224	Vertical
14684.8895	-44.31	-13.00	31.31	248	193	Vertical
17904.9968	-37.01	-13.00	24.01	194	319	Vertical
41.2526	-63.39	-13.00	50.39	185	350	Horizontal
234.0497	-67.57	-13.00	54.57	196	287	Horizontal
2693.1386	-35.25	-13.00	22.25	231	33	Horizontal
7341.6447	-53.70	-13.00	40.70	262	4	Horizontal
16380.9460	-39.75	-13.00	26.75	254	350	Horizontal
17985.4995	-39.88	-13.00	26.88	184	67	Horizontal



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7.2. Test Band = WCDMA Band IV (Main Ant)

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
113.7152	-64.62	-13.00	51.62	258	257	Vertical
2113.0226	-35.75	-13.00	22.75	196	298	Vertical
3423.5141	-44.53	-13.00	31.53	231	160	Vertical
7395.1465	-53.52	-13.00	40.52	262	128	Vertical
14495.8832	-44.17	-13.00	31.17	254	35	Vertical
17997.9999	-36.98	-13.00	23.98	174	35	Vertical
41.2041	-62.05	-13.00	49.05	158	69	Horizontal
2683.9368	-36.04	-13.00	23.04	196	104	Horizontal
3423.0141	-49.10	-13.00	36.10	321	163	Horizontal
4834.0611	-53.41	-13.00	40.41	252	100	Horizontal
16398.4466	-40.11	-13.00	27.11	254	100	Horizontal
17990.9997	-41.63	-13.00	28.63	147	257	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
108.7194	-64.52	-13.00	51.52	185	134	Vertical
2133.0266	-35.94	-13.00	22.94	196	356	Vertical
3463.5155	-50.75	-13.00	37.75	213	134	Vertical
8003.1668	-53.17	-13.00	40.17	252	352	Vertical
14478.8826	-44.39	-13.00	31.39	226	321	Vertical
17997.4999	-37.31	-13.00	24.31	284	352	Vertical
48.7219	-61.19	-13.00	48.19	158	263	Horizontal
231.8186	-67.60	-13.00	54.60	196	326	Horizontal
2693.1386	-35.65	-13.00	22.65	321	157	Horizontal
3464.0155	-54.99	-13.00	41.99	262	165	Horizontal
16397.9466	-41.28	-13.00	28.28	254	326	Horizontal
17999.5000	-41.99	-13.00	28.99	184	326	Horizontal



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7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
112.1146	-64.67	-13.00	51.67	285	35	Vertical
2698.7397	-36.73	-13.00	23.73	184	136	Vertical
3507.0169	-52.48	-13.00	39.48	196	130	Vertical
7354.6452	-53.44	-13.00	40.44	251	350	Vertical
14492.3831	-44.07	-13.00	31.07	252	130	Vertical
17998.5000	-37.42	-13.00	24.42	161	193	Vertical
41.2526	-61.30	-13.00	48.30	258	67	Horizontal
236.9598	-68.41	-13.00	55.41	174	98	Horizontal
2699.1398	-35.64	-13.00	22.64	196	222	Horizontal
3503.5168	-56.79	-13.00	43.79	321	130	Horizontal
7359.1453	-53.56	-13.00	40.56	262	319	Horizontal
16387.4462	-41.08	-13.00	28.08	261	67	Horizontal

7.3. Test Band = WCDMA Band V (Main Ant)

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
110.1745	-65.06	-13.00	52.06	258	287	Vertical
1654.5309	-55.14	-13.00	42.14	185	90	Vertical
3000.0000	-55.75	-13.00	42.75	189	251	Vertical
7372.1457	-53.79	-13.00	40.79	213	255	Vertical
14520.8840	-44.95	-13.00	31.95	252	129	Vertical
17989.4997	-37.54	-13.00	24.54	291	161	Vertical
41.2041	-61.06	-13.00	48.06	258	287	Horizontal
1654.1308	-51.20	-13.00	38.20	185	90	Horizontal
2577.5155	-49.17	-13.00	36.17	189	251	Horizontal
7371.1457	-54.11	-13.00	41.11	213	255	Horizontal
16394.4465	-41.18	-13.00	28.18	252	129	Horizontal
17997.4999	-41.92	-13.00	28.92	291	161	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
115.7523	-65.56	-13.00	52.56	258	129	Vertical
1674.5349	-54.00	-13.00	41.00	147	185	Vertical
2992.7986	-55.75	-13.00	42.75	196	200	Vertical
7362.1454	-53.73	-13.00	40.73	231	97	Vertical
14686.3895	-45.63	-13.00	32.63	262	287	Vertical
17997.4999	-38.31	-13.00	25.31	211	160	Vertical
48.6734	-62.64	-13.00	49.64	258	256	Horizontal
240.5490	-68.79	-13.00	55.79	174	130	Horizontal
1674.5349	-51.88	-13.00	38.88	196	115	Horizontal
2464.6929	-52.18	-13.00	39.18	213	132	Horizontal
16398.4466	-41.95	-13.00	28.95	262	36	Horizontal
17996.9999	-42.62	-13.00	29.62	261	193	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
113.8122	-65.24	-13.00	52.24	158	67	Vertical
1691.3383	-53.41	-13.00	40.41	196	99	Vertical
3000.0000	-55.77	-13.00	42.77	231	188	Vertical
7332.6444	-53.77	-13.00	40.77	252	161	Vertical
14489.8830	-44.98	-13.00	31.98	284	67	Vertical
17995.4999	-38.23	-13.00	25.23	196	224	Vertical
41.2041	-61.01	-13.00	48.01	184	161	Horizontal
1256.4513	-63.36	-13.00	50.36	231	337	Horizontal
1973.3947	-55.74	-13.00	42.74	252	246	Horizontal
3000.0000	-55.85	-13.00	42.85	261	281	Horizontal
7362.6454	-54.61	-13.00	41.61	189	130	Horizontal
16392.9464	-42.21	-13.00	29.21	196	36	Horizontal



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7.4. Test Band = WCDMA Band II (Second Ant)

7.4.1. Test Mode = WCDMA/TM1

7.4.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
116.7708	-65.94	-13.00	52.94	185	318	Vertical
752.0556	-62.17	-13.00	49.17	196	192	Vertical
2706.7413	-36.97	-13.00	23.97	231	351	Vertical
7343.6448	-53.61	-13.00	40.61	251	318	Vertical
14469.3823	-43.84	-13.00	30.84	164	130	Vertical
17986.9996	-36.43	-13.00	23.43	184	4	Vertical
41.2526	-61.96	-13.00	48.96	288	255	Horizontal
241.0826	-67.05	-13.00	54.05	196	129	Horizontal
2707.5415	-35.66	-13.00	22.66	231	313	Horizontal
7348.1449	-53.92	-13.00	40.92	251	129	Horizontal
16379.4460	-40.48	-13.00	27.48	184	224	Horizontal
17917.9973	-42.22	-13.00	29.22	194	129	Horizontal

7.4.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
111.0961	-65.16	-13.00	52.16	158	360	Vertical
842.0276	-60.33	-13.00	47.33	196	35	Vertical
2703.5407	-36.92	-13.00	23.92	321	244	Vertical
7354.1451	-53.53	-13.00	40.53	252	258	Vertical
14441.8814	-44.80	-13.00	31.80	228	162	Vertical
17996.4999	-38.04	-13.00	25.04	184	227	Vertical
45.3268	-64.23	-13.00	51.23	185	320	Horizontal
729.3565	-62.39	-13.00	49.39	196	36	Horizontal
2693.5387	-35.73	-13.00	22.73	321	139	Horizontal
7344.6448	-54.10	-13.00	41.10	255	162	Horizontal
16399.9467	-40.89	-13.00	27.89	174	131	Horizontal
17999.0000	-41.89	-13.00	28.89	184	193	Horizontal



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7.4.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
108.8649	-65.12	-13.00	52.12	158	73	Vertical
765.7333	-62.64	-13.00	49.64	196	104	Vertical
2702.3405	-36.84	-13.00	23.84	231	0	Vertical
7349.1450	-53.60	-13.00	40.60	252	136	Vertical
14509.8837	-45.27	-13.00	32.27	244	273	Vertical
17998.5000	-39.41	-13.00	26.41	184	207	Vertical
48.7704	-62.56	-13.00	49.56	258	254	Horizontal
745.6533	-61.68	-13.00	48.68	174	35	Horizontal
2700.3401	-35.67	-13.00	22.67	196	296	Horizontal
7340.6447	-54.36	-13.00	41.36	231	66	Horizontal
16398.9466	-42.27	-13.00	29.27	262	191	Horizontal
17984.9995	-44.00	-13.00	31.00	215	66	Horizontal

7.5. Test Band = WCDMA Band IV (Second Ant)

7.5.1. Test Mode = WCDMA/TM1

7.5.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
110.6110	-65.13	-13.00	52.13	185	224	Vertical
2700.7401	-36.90	-13.00	23.90	196	179	Vertical
3423.0141	-45.07	-13.00	32.07	185	162	Vertical
7366.6456	-53.67	-13.00	40.67	231	224	Vertical
14444.8815	-45.40	-13.00	32.40	252	193	Vertical
17991.9997	-39.34	-13.00	26.34	248	318	Vertical
48.7704	-60.21	-13.00	47.21	164	318	Horizontal
769.0800	-62.40	-13.00	49.40	185	193	Horizontal
2699.5399	-35.85	-13.00	22.85	196	286	Horizontal
3426.0142	-50.65	-13.00	37.65	213	161	Horizontal
7889.1630	-54.53	-13.00	41.53	252	98	Horizontal
16399.4466	-42.99	-13.00	29.99	264	350	Horizontal



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7.5.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
111.3871	-65.42	-13.00	52.42	258	129	Vertical
2132.6265	-36.16	-13.00	23.16	174	127	Vertical
3463.5155	-51.14	-13.00	38.14	196	129	Vertical
7334.1445	-53.82	-13.00	40.82	213	352	Vertical
14493.8831	-45.41	-13.00	32.41	252	4	Vertical
17999.0000	-39.17	-13.00	26.17	214	225	Vertical
41.2041	-61.44	-13.00	48.44	151	358	Horizontal
757.4394	-61.89	-13.00	48.89	185	227	Horizontal
2694.7389	-35.77	-13.00	22.77	196	356	Horizontal
3464.0155	-55.45	-13.00	42.45	213	132	Horizontal
16381.4460	-42.62	-13.00	29.62	251	258	Horizontal
17995.9999	-44.15	-13.00	31.15	141	358	Horizontal

7.5.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
113.8607	-64.00	-13.00	51.00	185	35	Vertical
2703.9408	-36.86	-13.00	23.86	196	235	Vertical
3507.0169	-53.13	-13.00	40.13	213	162	Vertical
7363.1454	-53.70	-13.00	40.70	252	319	Vertical
14483.3828	-45.67	-13.00	32.67	254	287	Vertical
17994.9998	-39.69	-13.00	26.69	184	162	Vertical
48.7219	-62.62	-13.00	49.62	258	264	Horizontal
849.5455	-60.40	-13.00	47.40	174	295	Horizontal
2698.3397	-35.76	-13.00	22.76	195	242	Horizontal
3503.0168	-53.82	-13.00	40.82	225	71	Horizontal
7353.1451	-54.63	-13.00	41.63	213	264	Horizontal
16380.9460	-42.61	-13.00	29.61	184	295	Horizontal



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7.6. Test Band = WCDMA Band V (Second Ant)

7.6.1. Test Mode = WCDMA/TM1

7.6.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
108.4284	-64.53	-13.00	51.53	258	285	Vertical
1654.5309	-55.90	-13.00	42.90	274	95	Vertical
2711.9424	-57.17	-13.00	44.17	196	119	Vertical
7353.6451	-53.83	-13.00	40.83	231	98	Vertical
14463.8821	-45.40	-13.00	32.40	262	191	Vertical
17999.5000	-40.02	-13.00	27.02	241	191	Vertical
41.5921	-64.17	-13.00	51.17	174	102	Horizontal
228.9084	-67.20	-13.00	54.20	185	230	Horizontal
1654.1308	-53.11	-13.00	40.11	196	117	Horizontal
2500.7001	-55.86	-13.00	42.86	231	106	Horizontal
16382.4461	-42.54	-13.00	29.54	252	325	Horizontal
17993.4998	-44.35	-13.00	31.35	215	294	Horizontal

7.6.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
108.1859	-65.18	-13.00	52.18	185	222	Vertical
1674.5349	-54.71	-13.00	41.71	196	190	Vertical
2936.7874	-56.84	-13.00	43.84	213	272	Vertical
7374.6458	-53.82	-13.00	40.82	252	348	Vertical
14485.8829	-45.94	-13.00	32.94	274	348	Vertical
17994.9998	-39.86	-13.00	26.86	184	35	Vertical
48.7704	-60.79	-13.00	47.79	185	35	Horizontal
237.2994	-68.71	-13.00	55.71	196	67	Horizontal
1674.5349	-53.53	-13.00	40.53	231	117	Horizontal
2502.7005	-56.20	-13.00	43.20	252	348	Horizontal
16382.9461	-43.31	-13.00	30.31	274	192	Horizontal
17999.0000	-44.34	-13.00	31.34	184	287	Horizontal



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7.6.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
112.4056	-65.60	-13.00	52.60	156	259	Vertical
1691.3383	-54.53	-13.00	41.53	198	94	Vertical
2403.8808	-56.97	-13.00	43.97	185	205	Vertical
7252.6418	-55.61	-13.00	42.61	196	35	Vertical
14457.8819	-46.13	-13.00	33.13	231	195	Vertical
17996.9999	-40.74	-13.00	27.74	251	163	Vertical
41.2526	-63.82	-13.00	50.82	215	36	Horizontal
240.3550	-68.08	-13.00	55.08	148	4	Horizontal
1691.3383	-53.73	-13.00	40.73	196	158	Horizontal
2479.4959	-57.81	-13.00	44.81	231	219	Horizontal
7363.6455	-54.60	-13.00	41.60	262	98	Horizontal
16397.4466	-43.53	-13.00	30.53	284	260	Horizontal

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 (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-10.30	-0.005560	±2.5	PASS
Band II	9262	VN	TN	-3.50	-0.001888	±2.5	PASS
Band II	9262	VH	TN	-8.93	-0.004819	±2.5	PASS
Band II	9400	VL	TN	-9.88	-0.005258	±2.5	PASS
Band II	9400	VN	TN	-9.91	-0.005269	±2.5	PASS
Band II	9400	VH	TN	-8.96	-0.004763	±2.5	PASS
Band II	9538	VL	TN	-8.88	-0.004657	±2.5	PASS
Band II	9538	VN	TN	-9.87	-0.005174	±2.5	PASS
Band II	9538	VH	TN	-9.72	-0.005096	±2.5	PASS
Band IV	1312	VL	TN	-15.87	-0.009269	±2.5	PASS
Band IV	1312	VN	TN	-13.07	-0.007631	±2.5	PASS
Band IV	1312	VH	TN	-17.85	-0.010426	±2.5	PASS
Band IV	1413	VL	TN	-3.35	-0.001932	±2.5	PASS
Band IV	1413	VN	TN	-7.75	-0.004471	±2.5	PASS
Band IV	1413	VH	TN	-10.99	-0.006345	±2.5	PASS
Band IV	1513	VL	TN	-9.35	-0.005334	±2.5	PASS
Band IV	1513	VN	TN	-8.75	-0.004991	±2.5	PASS
Band IV	1513	VH	TN	-2.59	-0.001477	±2.5	PASS
Band V	4132	VL	TN	-9.18	-0.011113	±2.5	PASS
Band V	4132	VN	TN	-6.12	-0.007400	±2.5	PASS
Band V	4132	VH	TN	-8.71	-0.010542	±2.5	PASS
Band V	4182	VL	TN	-13.67	-0.016342	±2.5	PASS
Band V	4182	VN	TN	-12.39	-0.014811	±2.5	PASS
Band V	4182	VH	TN	-12.68	-0.015162	±2.5	PASS
Band V	4233	VL	TN	-9.47	-0.011186	±2.5	PASS
Band V	4233	VN	TN	-8.85	-0.010459	±2.5	PASS
Band V	4233	VH	TN	-7.04	-0.008313	±2.5	PASS



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8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-4.15	-0.002240	±2.5	PASS
Band II	9262	VN	-20	-6.70	-0.003618	±2.5	PASS
Band II	9262	VN	-10	-6.17	-0.003332	±2.5	PASS
Band II	9262	VN	0	-13.75	-0.007421	±2.5	PASS
Band II	9262	VN	10	-12.85	-0.006935	±2.5	PASS
Band II	9262	VN	20	-14.15	-0.007641	±2.5	PASS
Band II	9262	VN	30	-15.56	-0.008398	±2.5	PASS
Band II	9262	VN	40	-13.37	-0.007217	±2.5	PASS
Band II	9262	VN	50	-9.74	-0.005259	±2.5	PASS
Band II	9400	VN	-30	-7.95	-0.004227	±2.5	PASS
Band II	9400	VN	-20	-8.42	-0.004478	±2.5	PASS
Band II	9400	VN	-10	-6.52	-0.003470	±2.5	PASS
Band II	9400	VN	0	-8.84	-0.004702	±2.5	PASS
Band II	9400	VN	10	-11.58	-0.006160	±2.5	PASS
Band II	9400	VN	20	-13.10	-0.006966	±2.5	PASS
Band II	9400	VN	30	-5.14	-0.002732	±2.5	PASS
Band II	9400	VN	40	-8.87	-0.004718	±2.5	PASS
Band II	9400	VN	50	-6.13	-0.003261	±2.5	PASS
Band II	9538	VN	-30	-8.42	-0.004413	±2.5	PASS
Band II	9538	VN	-20	-6.50	-0.003408	±2.5	PASS
Band II	9538	VN	-10	-8.35	-0.004379	±2.5	PASS
Band II	9538	VN	0	-8.12	-0.004256	±2.5	PASS
Band II	9538	VN	10	-5.31	-0.002782	±2.5	PASS
Band II	9538	VN	20	-9.17	-0.004807	±2.5	PASS
Band II	9538	VN	30	-11.11	-0.005823	±2.5	PASS
Band II	9538	VN	40	-6.49	-0.003405	±2.5	PASS
Band II	9538	VN	50	-11.30	-0.005924	±2.5	PASS
Band IV	1312	VN	-30	-13.64	-0.007965	±2.5	PASS
Band IV	1312	VN	-20	-10.56	-0.006169	±2.5	PASS
Band IV	1312	VN	-10	-12.42	-0.007255	±2.5	PASS
Band IV	1312	VN	0	-9.91	-0.005785	±2.5	PASS
Band IV	1312	VN	10	-12.74	-0.007439	±2.5	PASS
Band IV	1312	VN	20	-11.68	-0.006821	±2.5	PASS



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Band IV	1312	VN	30	-14.89	-0.008696	±2.5	PASS
Band IV	1312	VN	40	-12.50	-0.007297	±2.5	PASS
Band IV	1312	VN	50	-15.29	-0.008930	±2.5	PASS
Band IV	1413	VN	-30	-7.44	-0.004293	±2.5	PASS
Band IV	1413	VN	-20	-6.84	-0.003951	±2.5	PASS
Band IV	1413	VN	-10	-11.54	-0.006659	±2.5	PASS
Band IV	1413	VN	0	-5.56	-0.003208	±2.5	PASS
Band IV	1413	VN	10	-3.80	-0.002192	±2.5	PASS
Band IV	1413	VN	20	-8.77	-0.005061	±2.5	PASS
Band IV	1413	VN	30	-14.71	-0.008488	±2.5	PASS
Band IV	1413	VN	40	-7.45	-0.004302	±2.5	PASS
Band IV	1413	VN	50	-7.47	-0.004314	±2.5	PASS
Band IV	1513	VN	-30	-8.47	-0.004832	±2.5	PASS
Band IV	1513	VN	-20	-10.12	-0.005775	±2.5	PASS
Band IV	1513	VN	-10	-11.21	-0.006395	±2.5	PASS
Band IV	1513	VN	0	-7.55	-0.004310	±2.5	PASS
Band IV	1513	VN	10	-10.36	-0.005909	±2.5	PASS
Band IV	1513	VN	20	-9.48	-0.005407	±2.5	PASS
Band IV	1513	VN	30	-5.11	-0.002918	±2.5	PASS
Band IV	1513	VN	40	-5.18	-0.002955	±2.5	PASS
Band IV	1513	VN	50	-5.17	-0.002951	±2.5	PASS
Band V	4132	VN	-30	-7.73	-0.009356	±2.5	PASS
Band V	4132	VN	-20	-4.38	-0.005306	±2.5	PASS
Band V	4132	VN	-10	-5.82	-0.007037	±2.5	PASS
Band V	4132	VN	0	-7.50	-0.009071	±2.5	PASS
Band V	4132	VN	10	-7.50	-0.009079	±2.5	PASS
Band V	4132	VN	20	-7.95	-0.009616	±2.5	PASS
Band V	4132	VN	30	-9.23	-0.011165	±2.5	PASS
Band V	4132	VN	40	-5.01	-0.006067	±2.5	PASS
Band V	4132	VN	50	-6.97	-0.008430	±2.5	PASS
Band V	4182	VN	-30	-6.42	-0.007671	±2.5	PASS
Band V	4182	VN	-20	-8.36	-0.009997	±2.5	PASS
Band V	4182	VN	-10	-11.64	-0.013922	±2.5	PASS
Band V	4182	VN	0	-12.49	-0.014931	±2.5	PASS
Band V	4182	VN	10	-13.94	-0.016667	±2.5	PASS
Band V	4182	VN	20	-4.21	-0.005028	±2.5	PASS
Band V	4182	VN	30	-4.95	-0.005918	±2.5	PASS
Band V	4182	VN	40	-4.77	-0.005704	±2.5	PASS



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Band V	4182	VN	50	-3.23	-0.003865	±2.5	PASS
Band V	4233	VN	-30	-4.44	-0.005247	±2.5	PASS
Band V	4233	VN	-20	-4.33	-0.005120	±2.5	PASS
Band V	4233	VN	-10	-1.80	-0.002121	±2.5	PASS
Band V	4233	VN	0	-6.16	-0.007274	±2.5	PASS
Band V	4233	VN	10	-10.56	-0.012470	±2.5	PASS
Band V	4233	VN	20	-9.48	-0.011194	±2.5	PASS
Band V	4233	VN	30	-7.10	-0.008389	±2.5	PASS
Band V	4233	VN	40	-6.58	-0.007773	±2.5	PASS
Band V	4233	VN	50	-5.87	-0.006936	±2.5	PASS

The End

