



Appendix B

WCDMA Band II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
Band2	9262	23.75	27.75	33	PASS
Band2	9400	23.30	27.30	33	PASS
Band2	9538	23.06	27.06	33	PASS
Band4	1312	24.30	28.30	30	PASS
Band4	1413	24.56	28.56	30	PASS
Band4	1513	24.64	28.64	30	PASS

Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
Band5	4132	23.85	24.7	38.5	PASS
Band5	4182	23.91	24.76	38.5	PASS
Band5	4233	23.91	24.76	38.5	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 [dBi]

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



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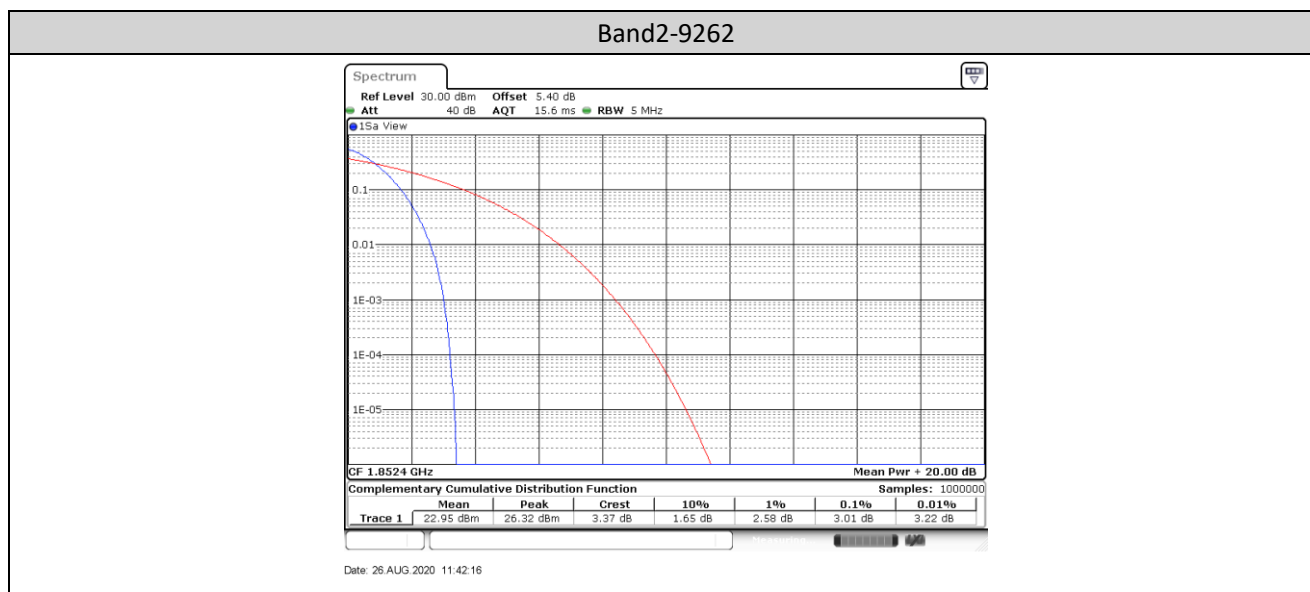
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2. Peak-to-Average Ratio(CCDF)

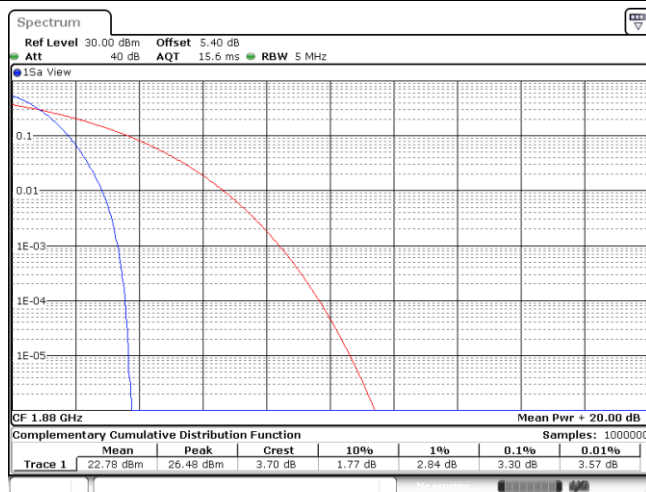
2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.01	13	PASS
Band2	9400	3.3	13	PASS
Band2	9538	3.28	13	PASS
Band4	1312	2.9	13	PASS
Band4	1413	2.9	13	PASS
Band4	1513	2.72	13	PASS
Band5	4132	3.07	13	PASS
Band5	4182	3.16	13	PASS
Band5	4233	2.87	13	PASS

2.2. Test Plots

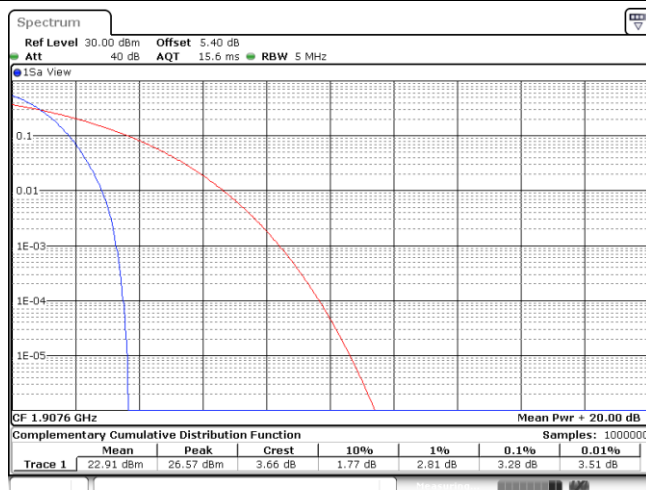


Band2-9400



Date: 26 AUG 2020 11:42:29

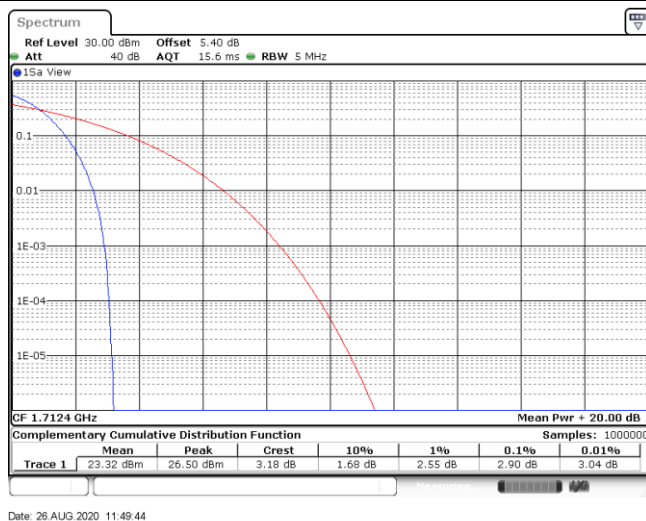
Band2-9538



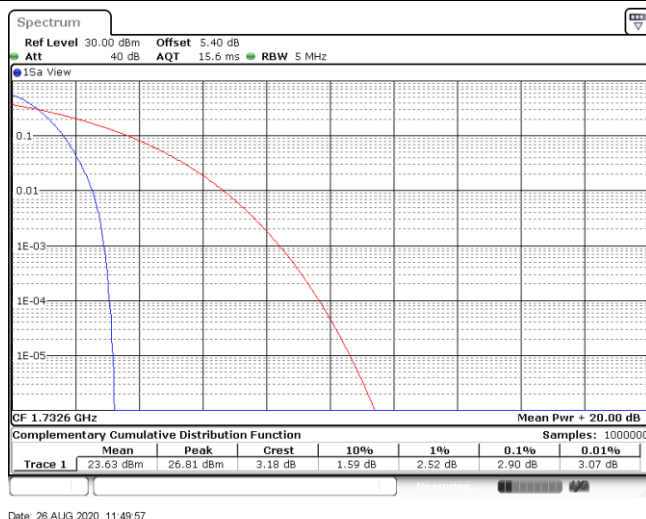
Date: 26 AUG 2020 11:42:42



Band4-1312



Band4-1413



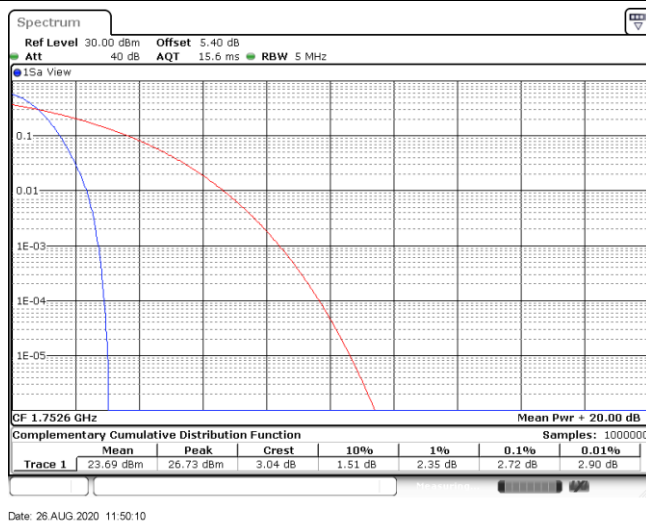
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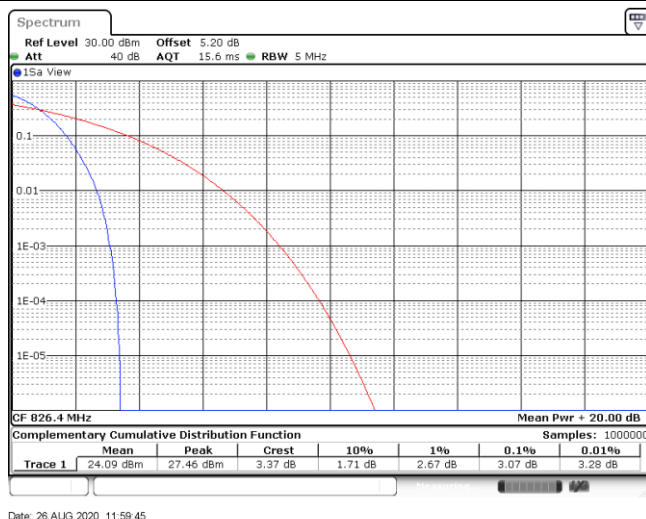
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Band4-1513



Band5-4132



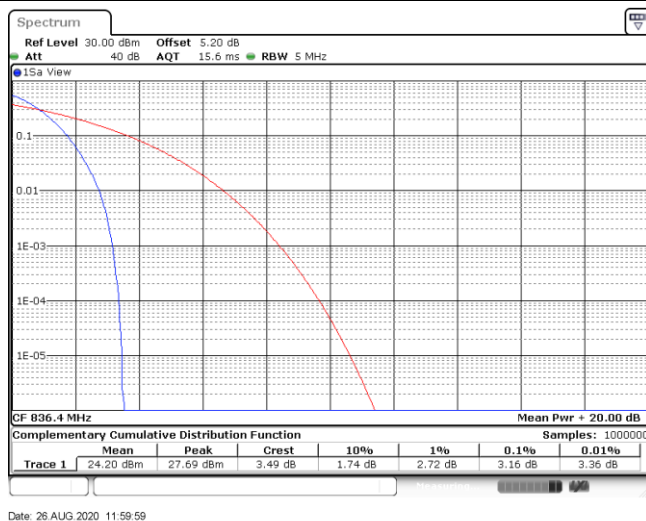
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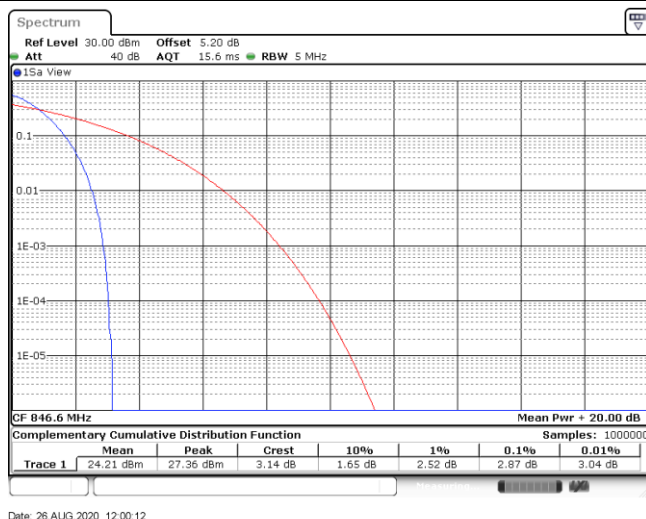
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Band5-4182



Band5-4233



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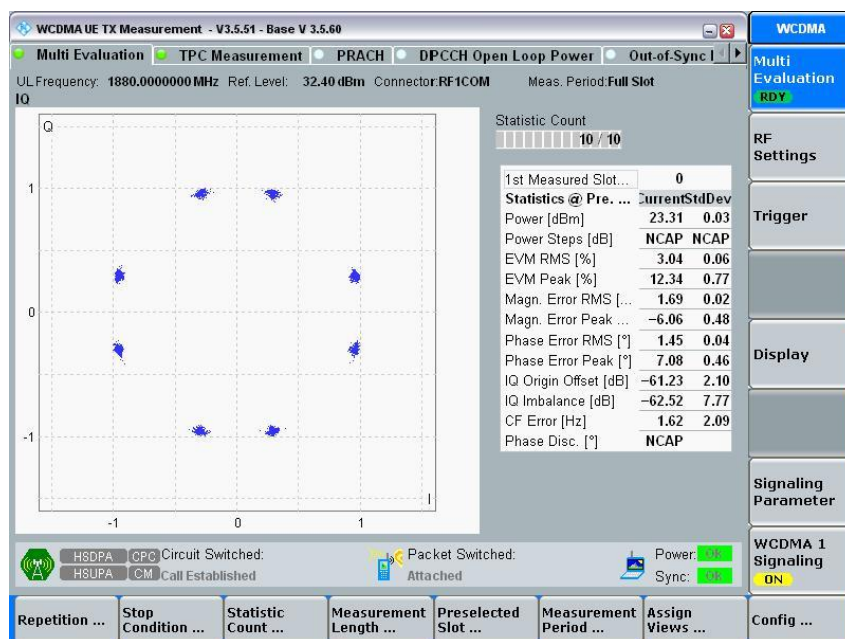
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3. Modulation Characteristics

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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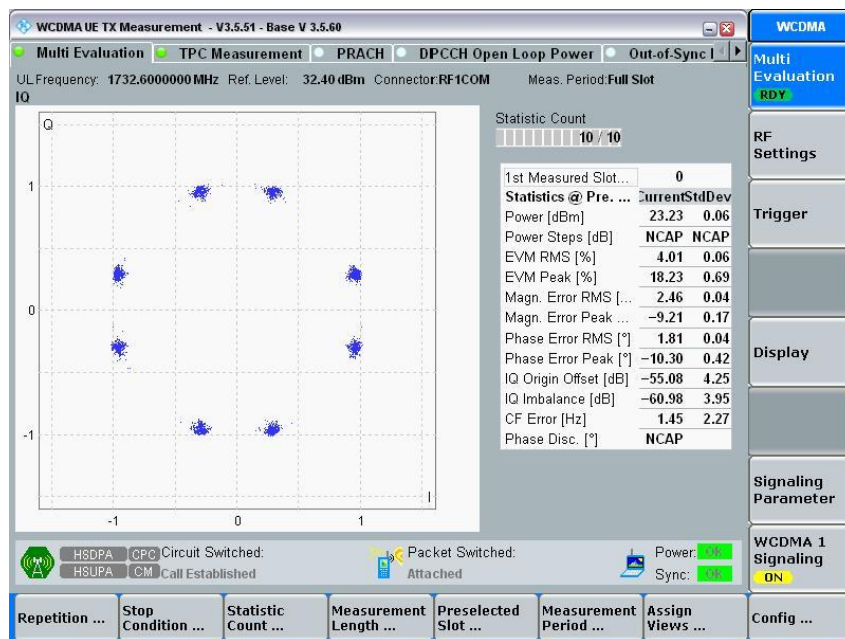
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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



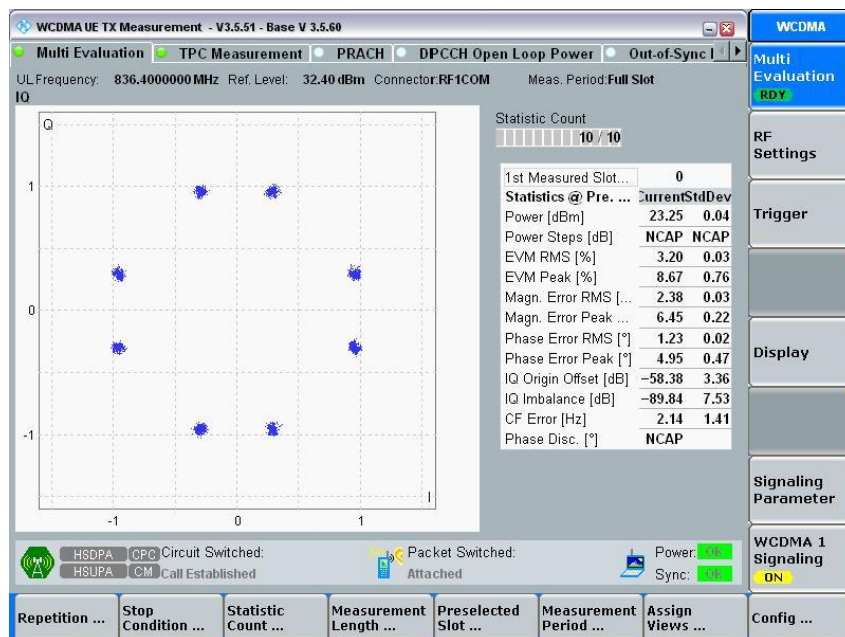
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3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH

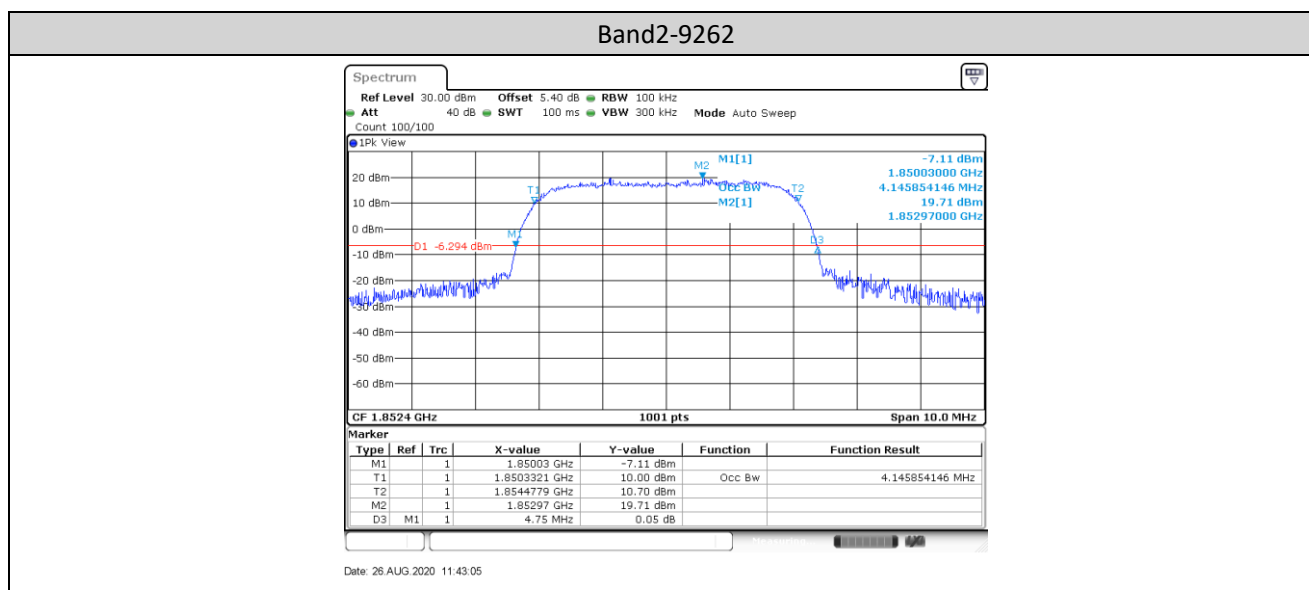


4. 26dB Bandwidth and Occupied Bandwidth

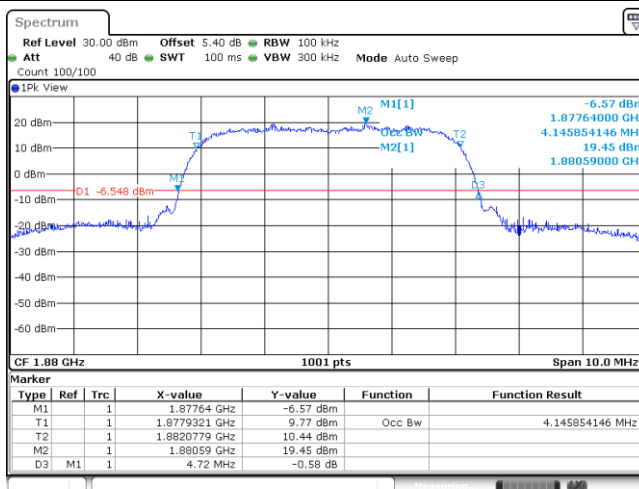
4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.146	4.750	---	PASS
Band2	9400	4.146	4.720	---	PASS
Band2	9538	4.146	4.720	---	PASS
Band4	1312	4.156	4.760	---	PASS
Band4	1413	4.156	4.740	---	PASS
Band4	1513	4.156	4.760	---	PASS
Band5	4132	4.136	4.720	---	PASS
Band5	4182	4.136	4.720	---	PASS
Band5	4233	4.126	4.730	---	PASS

4.2. Test Plots

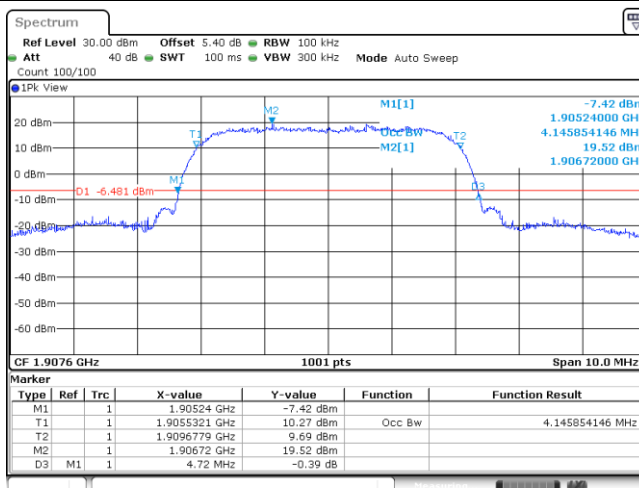


Band2-9400



Date: 26 AUG 2020 11:43:27

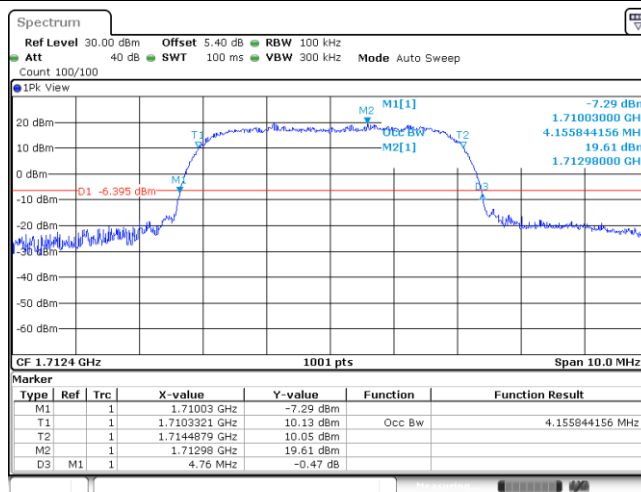
Band2-9538



Date: 26 AUG 2020 11:43:48

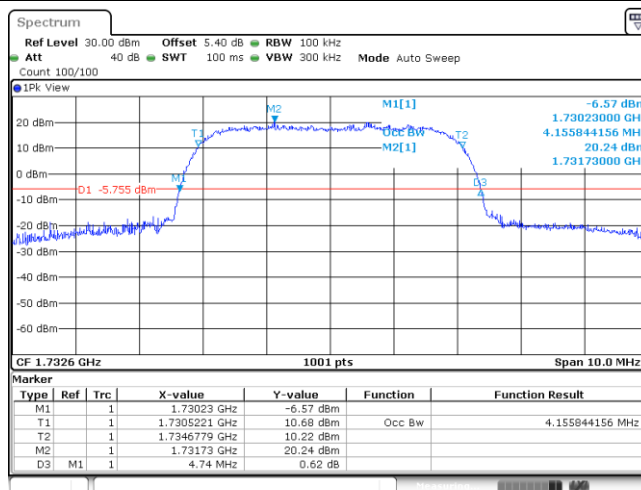


Band4-1312



Date: 26 AUG 2020 11:52:34

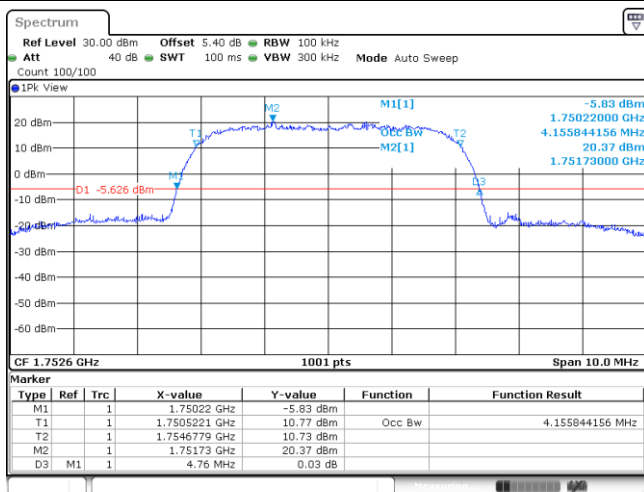
Band4-1413



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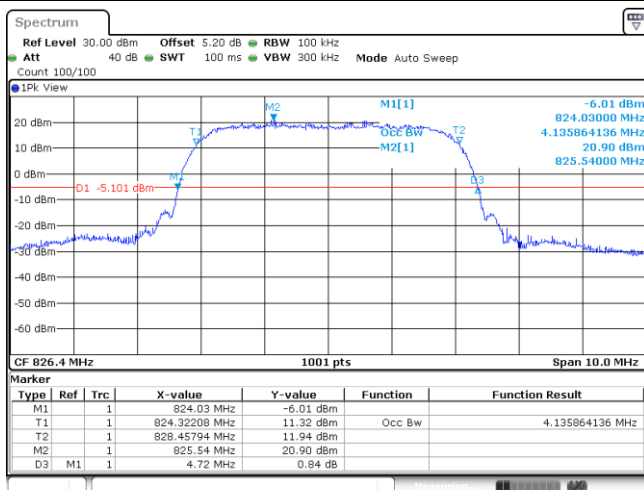


Band4-1513



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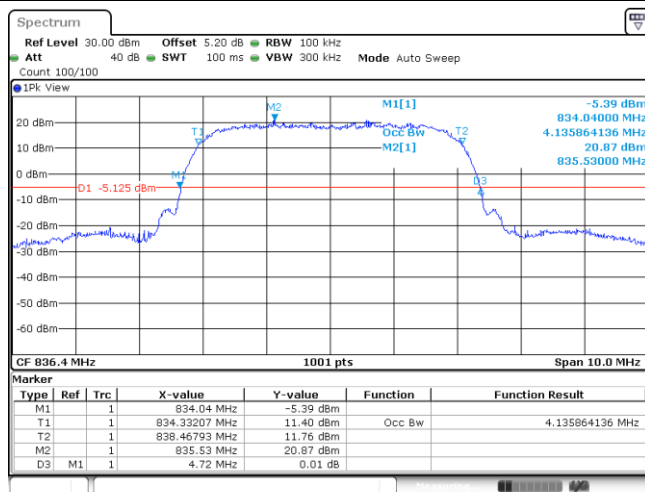
Band5-4132



Date: 26 AUG 2020 12:00:34

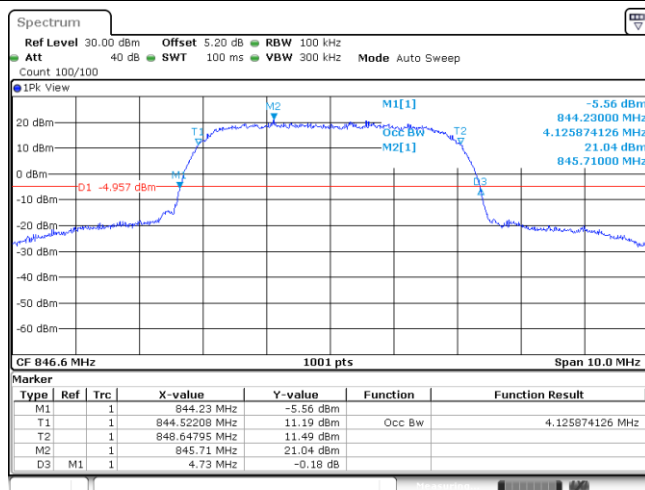


Band5-4182



Date: 26 AUG 2020 12:00:56

Band5-4233

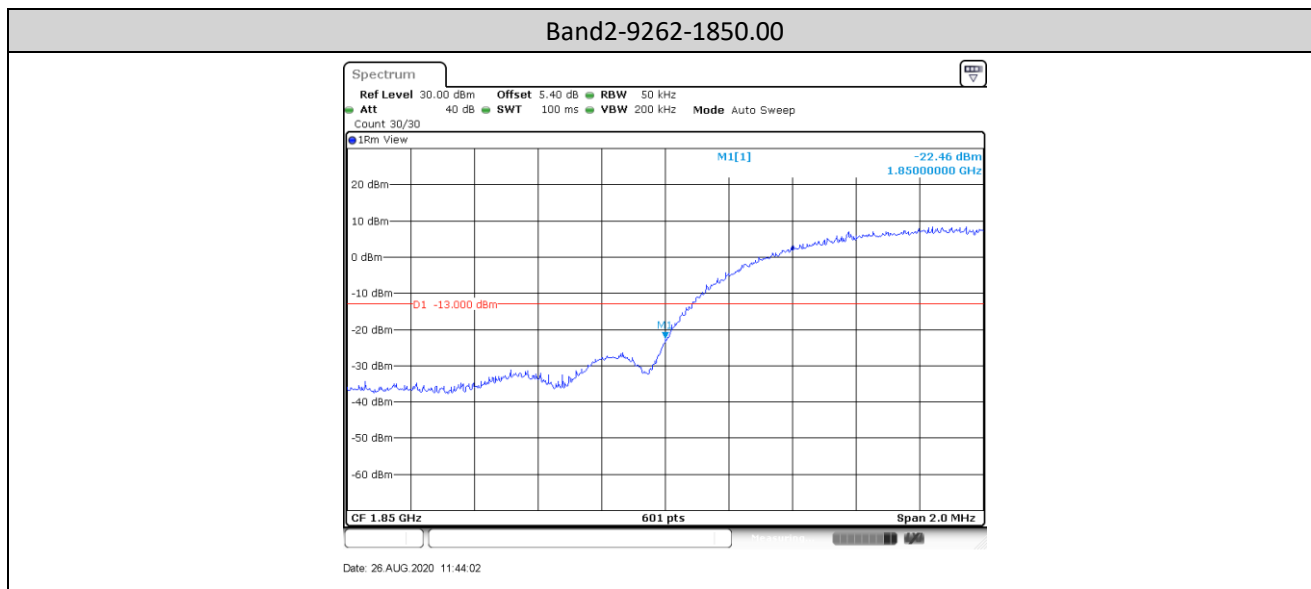


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5. Band Edge Compliance

5.1. Test Plots



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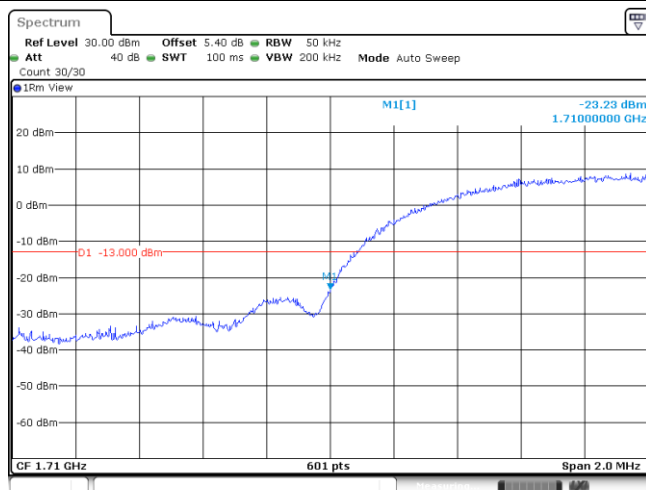
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Band2-9538-1910.15



Date: 26 AUG 2020 11:44:16

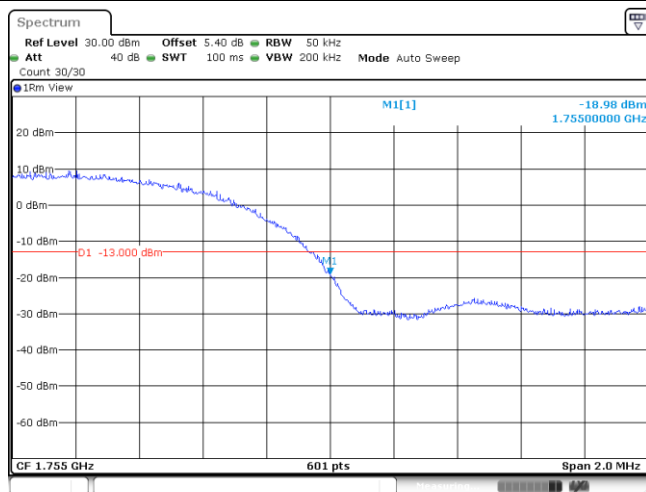
Band4-1312-1710.00



Date: 26 AUG 2020 11:53:31

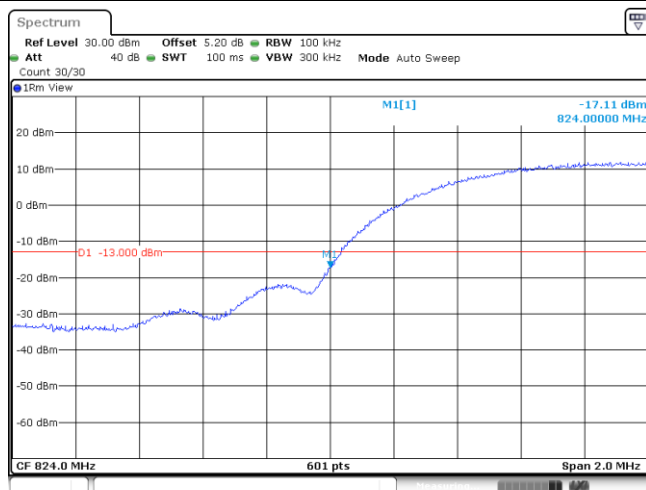


Band4-1513-1755.00



Date: 26 AUG 2020 11:53:45

Band5-4132-824.00



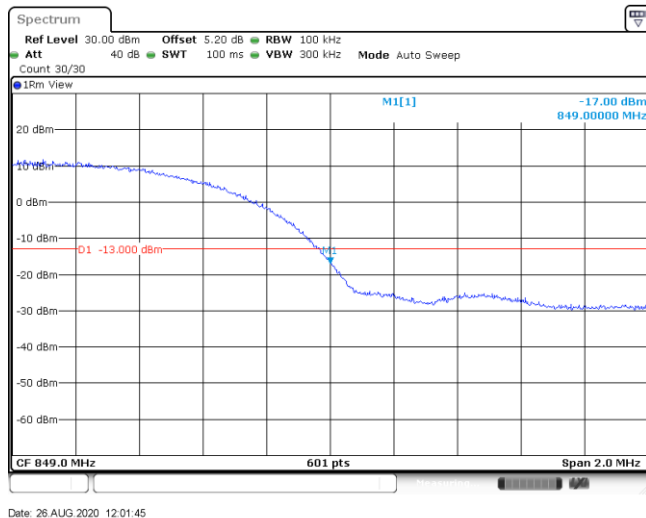
Date: 26 AUG 2020 12:01:32



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Band5-4233-849.00



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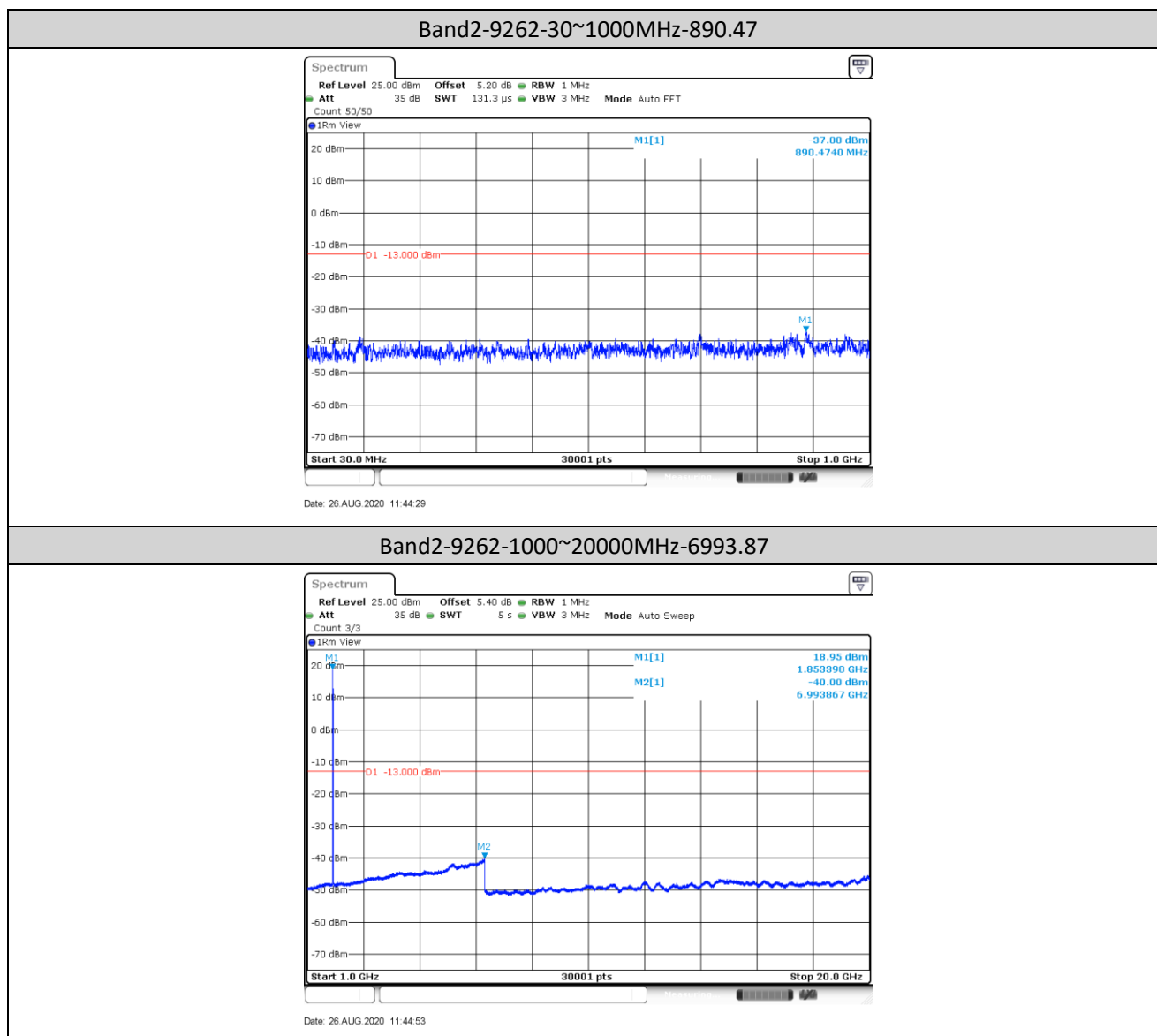
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6. Spurious Emission at Antenna Terminal

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



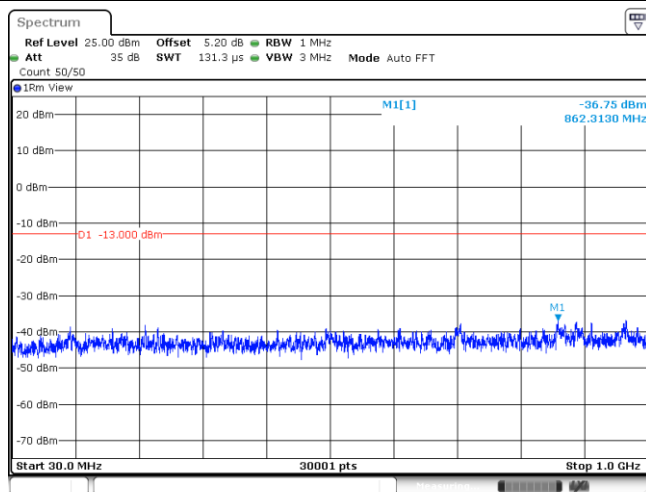
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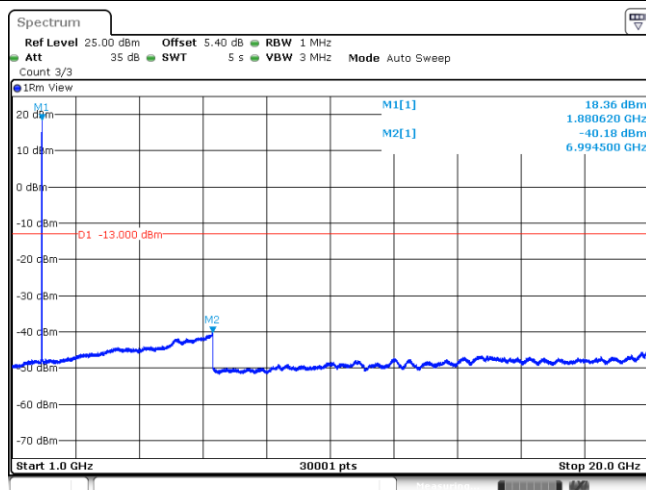
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Band2-9400-30~1000MHz-862.31



Date: 26 AUG 2020 11:45:06

Band2-9400-1000~20000MHz-6994.5



Date: 26 AUG 2020 11:45:29

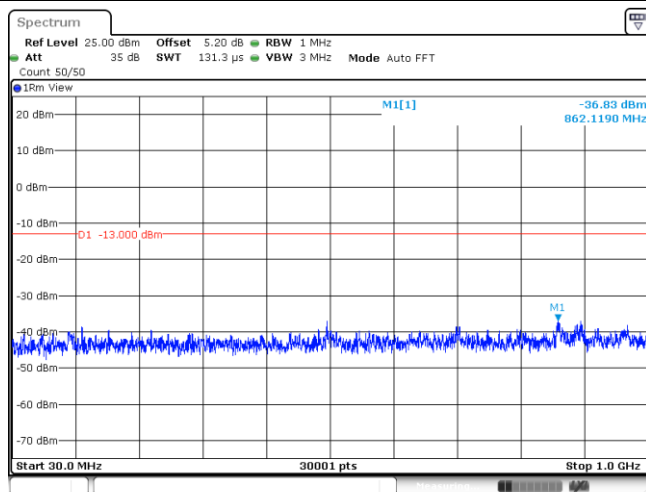


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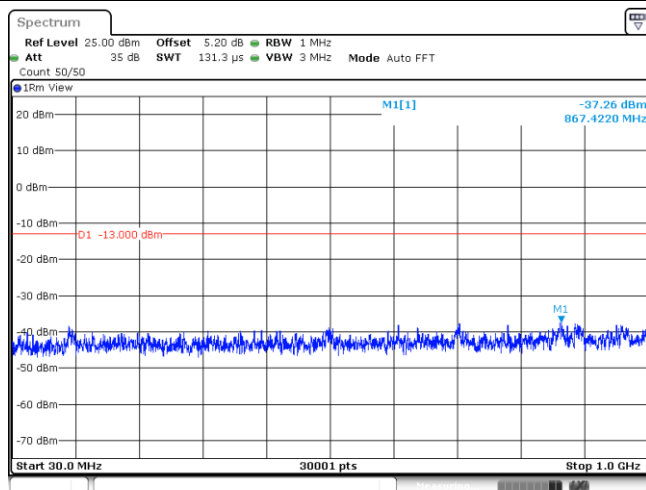
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Band2-9538-30~1000MHz-862.12



Date: 26 AUG 2020 11:45:42

Band4-1312-30~1000MHz-867.42



Date: 26 AUG 2020 11:53:58



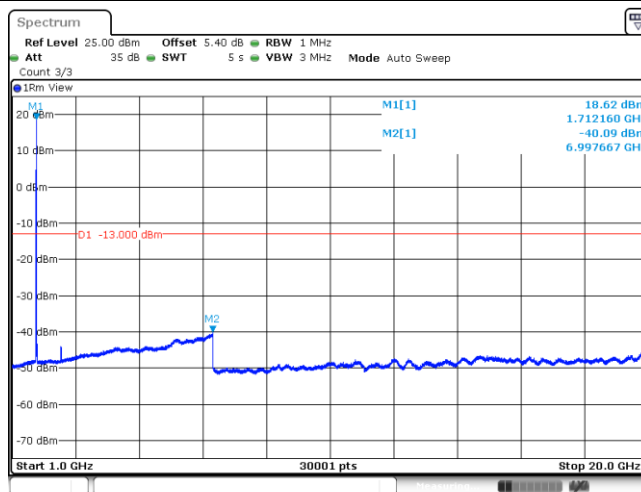
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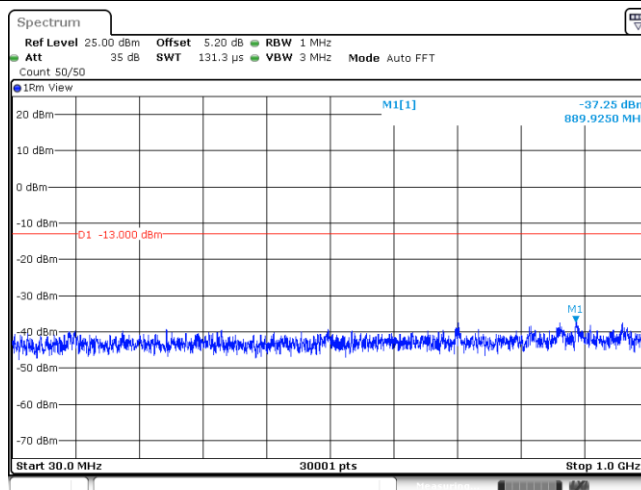
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Band4-1312-1000~20000MHz-6997.67



Date: 26 AUG 2020 11:54:21

Band4-1413-30~1000MHz-889.93



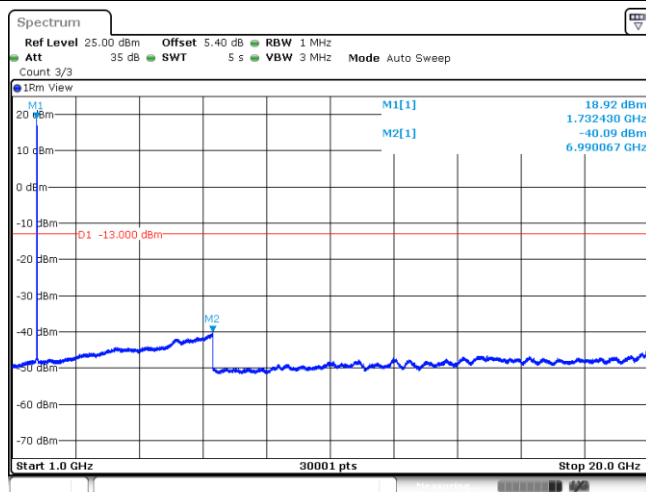
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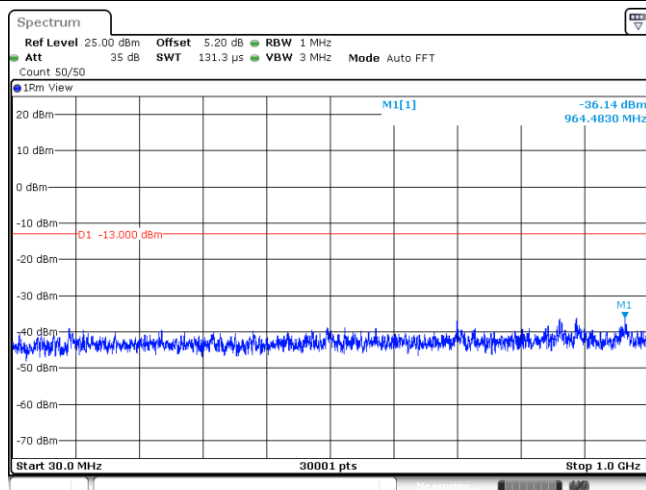
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Band4-1413-1000~20000MHz-6990.07



Date: 26 AUG 2020 11:54:58

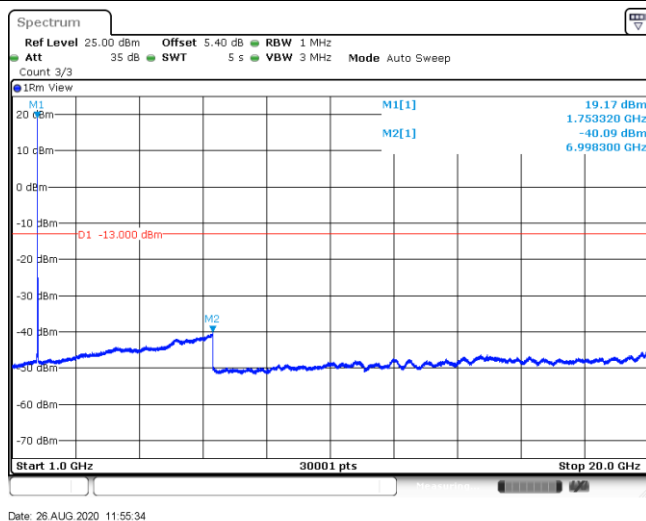
Band4-1513-30~1000MHz-964.48



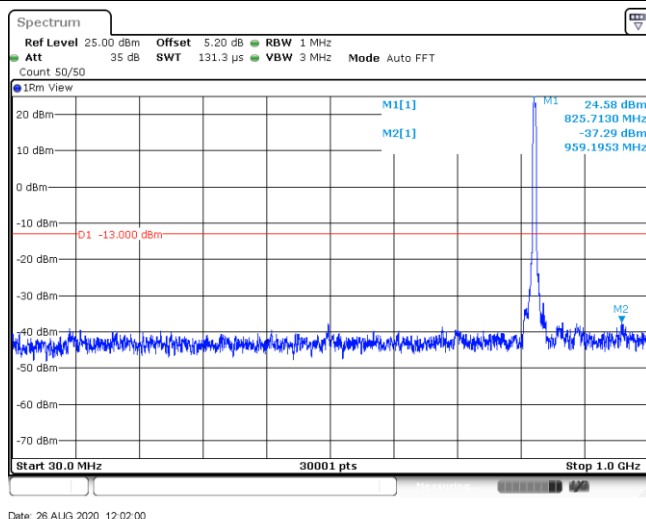
Date: 26 AUG 2020 11:55:10



Band4-1513-1000~20000MHz-6998.3

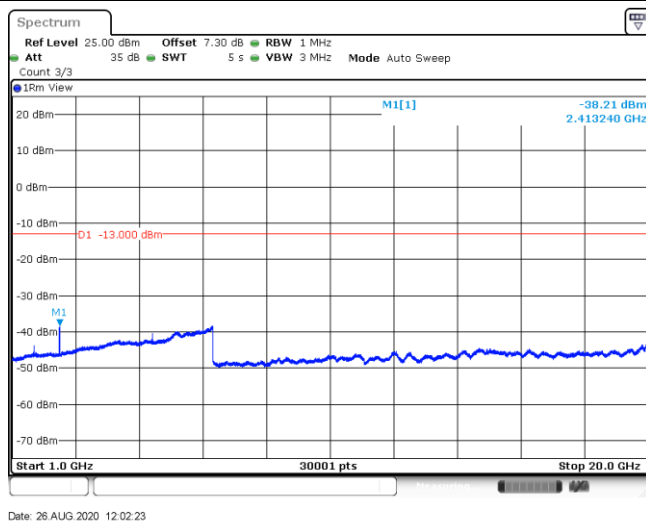


Band5-4132-30~1000MHz-959.2

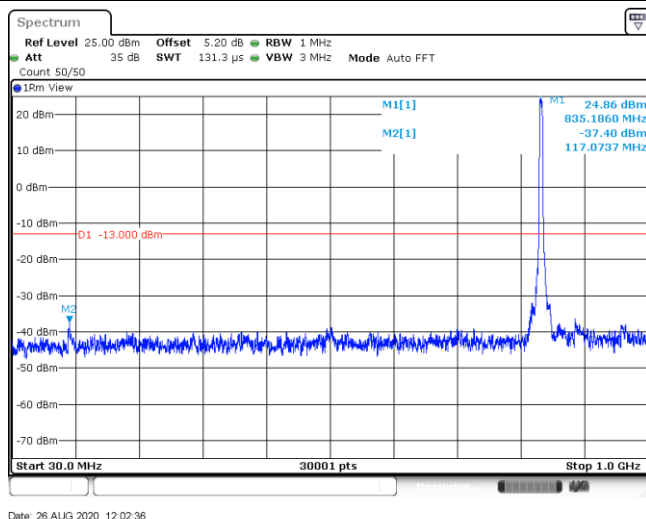


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Band5-4132-1000~20000MHz-2413.24



Band5-4182-30~1000MHz-117.07

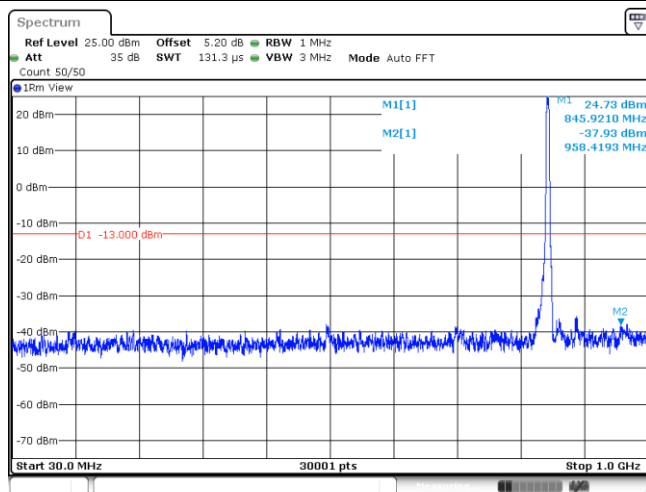


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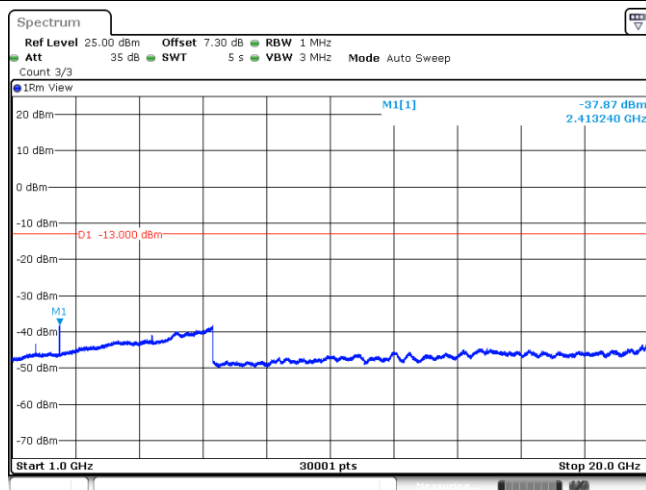
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Band5-4233-30~1000MHz-958.42



Band5-4233-1000~20000MHz-2413.24



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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
73.8462	-63.74	-13.00	50.74	159	134	Vertical
117.1589	-64.64	-13.00	51.64	196	293	Vertical
382.9521	-67.40	-13.00	54.40	185	197	Vertical
3706.0235	-60.40	-13.00	47.40	312	7	Vertical
5560.5854	-59.84	-13.00	46.84	262	229	Vertical
17996.9999	-40.24	-13.00	27.24	164	197	Vertical
44.0657	-64.12	-13.00	51.12	251	229	Horizontal
231.6731	-68.23	-13.00	55.23	231	229	Horizontal
625.3673	-63.35	-13.00	50.35	251	293	Horizontal
3623.0208	-60.48	-13.00	47.48	161	261	Horizontal
7387.1462	-56.27	-13.00	43.27	184	229	Horizontal
16388.9463	-43.65	-13.00	30.65	196	198	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
31.3096	-72.58	-13.00	59.58	141	7	Vertical
73.9917	-63.92	-13.00	50.92	321	135	Vertical
498.4849	-66.78	-13.00	53.78	252	356	Vertical
3762.0254	-59.93	-13.00	46.93	291	39	Vertical
7355.1452	-56.00	-13.00	43.00	184	261	Vertical
17997.9999	-40.06	-13.00	27.06	231	103	Vertical
41.7861	-64.28	-13.00	51.28	174	7	Horizontal
239.4335	-67.56	-13.00	54.56	185	324	Horizontal
548.5394	-65.00	-13.00	52.00	196	7	Horizontal
4494.0498	-61.80	-13.00	48.80	184	166	Horizontal
7459.6487	-55.90	-13.00	42.90	261	7	Horizontal
16406.9469	-43.80	-13.00	30.80	261	198	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
46.3453	-72.93	-13.00	59.93	213	102	Vertical
108.9134	-64.54	-13.00	51.54	262	166	Vertical
346.2358	-68.32	-13.00	55.32	284	198	Vertical
3937.5313	-61.94	-13.00	48.94	185	325	Vertical
7393.6465	-55.55	-13.00	42.55	196	356	Vertical
17999.0000	-40.08	-13.00	27.08	231	7	Vertical
44.0172	-64.49	-13.00	51.49	159	133	Horizontal
235.0198	-67.87	-13.00	54.87	196	325	Horizontal
576.9133	-63.84	-13.00	50.84	213	165	Horizontal
3776.5259	-60.56	-13.00	47.56	262	261	Horizontal
7460.6487	-56.18	-13.00	43.18	284	133	Horizontal
16395.9465	-43.61	-13.00	30.61	185	2	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
103.8692	-62.67	-13.00	49.67	158	164	Vertical
610.3315	-60.75	-13.00	47.75	174	196	Vertical
3423.0141	-59.20	-13.00	46.20	196	260	Vertical
5134.5712	-57.04	-13.00	44.04	185	260	Vertical
6846.6282	-53.43	-13.00	40.43	196	101	Vertical
17961.9987	-34.01	-13.00	21.01	231	292	Vertical
43.3867	-62.49	-13.00	49.49	185	189	Horizontal
244.4292	-65.58	-13.00	52.58	196	260	Horizontal
508.2824	-63.10	-13.00	50.10	321	1	Horizontal
3625.5209	-59.56	-13.00	46.56	262	221	Horizontal
7469.1490	-53.37	-13.00	40.37	244	29	Horizontal
16389.9463	-35.22	-13.00	22.22	184	189	Horizontal



7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.2045	-62.78	-13.00	49.78	185	36	Vertical
603.5897	-61.40	-13.00	48.40	196	68	Vertical
3467.5156	-58.48	-13.00	45.48	231	260	Vertical
5201.0734	-55.79	-13.00	42.79	262	292	Vertical
6933.1311	-53.25	-13.00	40.25	241	68	Vertical
17973.9991	-33.80	-13.00	20.80	184	228	Vertical
41.1071	-62.84	-13.00	49.84	258	164	Horizontal
242.2466	-64.71	-13.00	51.71	174	36	Horizontal
637.3474	-61.22	-13.00	48.22	196	68	Horizontal
3466.5156	-58.69	-13.00	45.69	231	196	Horizontal
7461.6487	-53.65	-13.00	40.65	266	228	Horizontal
16398.4466	-35.24	-13.00	22.24	264	4	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
105.2273	-62.35	-13.00	49.35	155	261	Vertical
411.3261	-65.53	-13.00	52.53	196	5	Vertical
3503.5168	-54.37	-13.00	41.37	321	261	Vertical
5260.5754	-55.87	-13.00	42.87	256	133	Vertical
7013.6338	-52.81	-13.00	39.81	281	69	Vertical
17998.5000	-34.03	-13.00	21.03	157	325	Vertical
45.4723	-62.84	-13.00	49.84	258	37	Horizontal
243.1682	-65.59	-13.00	52.59	196	5	Horizontal
621.9721	-61.03	-13.00	48.03	258	132	Horizontal
3507.0169	-55.89	-13.00	42.89	159	196	Horizontal
7015.6339	-53.75	-13.00	40.75	196	5	Horizontal
16403.9468	-35.32	-13.00	22.32	254	260	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
75.5923	-63.53	-13.00	50.53	174	6	Vertical
113.0847	-65.13	-13.00	52.13	185	102	Vertical
400.0735	-66.89	-13.00	53.89	196	70	Vertical
1952.5905	-57.85	-13.00	44.85	213	189	Vertical
2849.9700	-51.85	-13.00	38.85	262	25	Vertical
7349.7117	-54.62	-13.00	41.62	285	38	Vertical
41.3011	-63.42	-13.00	50.42	281	259	Horizontal
72.3426	-66.10	-13.00	53.10	196	99	Horizontal
248.2124	-63.75	-13.00	50.75	231	226	Horizontal
1654.9310	-59.25	-13.00	46.25	262	258	Horizontal
2478.6957	-50.85	-13.00	37.85	251	285	Horizontal
7457.2819	-55.05	-13.00	42.05	147	322	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
75.4468	-63.50	-13.00	50.50	174	61	Vertical
112.7936	-64.91	-13.00	51.91	185	259	Vertical
280.0785	-69.66	-13.00	56.66	196	324	Vertical
1699.7399	-60.43	-13.00	47.43	231	127	Vertical
2687.5375	-52.02	-13.00	39.02	252	289	Vertical
7978.7993	-54.01	-13.00	41.01	294	227	Vertical
39.9915	-64.41	-13.00	51.41	262	92	Horizontal
67.8804	-67.91	-13.00	54.91	251	60	Horizontal
239.5305	-68.03	-13.00	55.03	185	255	Horizontal
1674.5349	-59.90	-13.00	46.90	199	271	Horizontal
2699.9400	-50.55	-13.00	37.55	231	249	Horizontal
7483.1828	-54.87	-13.00	41.87	251	356	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.3581	-73.87	-13.00	60.87	174	292	Vertical
111.5811	-64.67	-13.00	51.67	185	5	Vertical
363.8422	-67.57	-13.00	54.57	196	260	Vertical
1778.5557	-58.16	-13.00	45.16	321	166	Vertical
2862.3725	-52.07	-13.00	39.07	252	25	Vertical
7457.9819	-54.65	-13.00	41.65	261	197	Vertical
43.3867	-64.58	-13.00	51.58	274	6	Horizontal
240.7430	-68.42	-13.00	55.42	185	356	Horizontal
1691.3383	-57.28	-13.00	44.28	196	279	Horizontal
2700.3401	-50.95	-13.00	37.95	213	146	Horizontal
5122.9374	-60.62	-13.00	47.62	262	165	Horizontal
7445.6149	-55.21	-13.00	42.21	224	133	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 (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	8.65	0.004670	±2.5	PASS
Band2	9262	VN	NT	7.93	0.004281	±2.5	PASS
Band2	9262	VH	NT	10.06	0.005431	±2.5	PASS
Band2	9400	VL	NT	12.22	0.006500	±2.5	PASS
Band2	9400	VN	NT	11.87	0.006314	±2.5	PASS
Band2	9400	VH	NT	12.03	0.006399	±2.5	PASS
Band2	9538	VL	NT	12.37	0.006485	±2.5	PASS
Band2	9538	VN	NT	12.35	0.006474	±2.5	PASS
Band2	9538	VH	NT	12.54	0.006574	±2.5	PASS
Band4	1312	VL	NT	-4.11	-0.002400	±2.5	PASS
Band4	1312	VN	NT	-8.22	-0.004800	±2.5	PASS
Band4	1312	VH	NT	-1.20	-0.000701	±2.5	PASS
Band4	1413	VL	NT	-11.61	-0.006701	±2.5	PASS
Band4	1413	VN	NT	-11.57	-0.006678	±2.5	PASS
Band4	1413	VH	NT	-11.59	-0.006689	±2.5	PASS
Band4	1513	VL	NT	5.35	0.003053	±2.5	PASS
Band4	1513	VN	NT	4.91	0.002802	±2.5	PASS
Band4	1513	VH	NT	5.26	0.003001	±2.5	PASS
Band5	4132	VL	NT	-5.57	-0.006740	±2.5	PASS
Band5	4132	VN	NT	-6.36	-0.007696	±2.5	PASS
Band5	4132	VH	NT	-5.09	-0.006159	±2.5	PASS
Band5	4182	VL	NT	-0.02	-0.000024	±2.5	PASS
Band5	4182	VN	NT	-0.14	-0.000167	±2.5	PASS
Band5	4182	VH	NT	-0.21	-0.000251	±2.5	PASS
Band5	4233	VL	NT	0.56	0.000661	±2.5	PASS
Band5	4233	VN	NT	0.61	0.000721	±2.5	PASS
Band5	4233	VH	NT	0.54	0.000638	±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
Band2	9262	NV	-30	10.56	0.005701	±2.5	PASS
Band2	9262	NV	-20	10.84	0.005852	±2.5	PASS
Band2	9262	NV	0	11.19	0.006041	±2.5	PASS
Band2	9262	NV	10	11.13	0.006008	±2.5	PASS
Band2	9262	NV	20	11.30	0.006100	±2.5	PASS
Band2	9262	NV	30	12.07	0.006420	±2.5	PASS
Band2	9262	NV	40	11.19	0.006041	±2.5	PASS
Band2	9262	NV	50	11.13	0.006218	±2.5	PASS
Band2	9400	NV	-30	11.71	0.006229	±2.5	PASS
Band2	9400	NV	-20	11.93	0.006346	±2.5	PASS
Band2	9400	NV	0	11.99	0.006378	±2.5	PASS
Band2	9400	NV	10	11.69	0.006218	±2.5	PASS
Band2	9400	NV	20	12.07	0.006420	±2.5	PASS
Band2	9400	NV	30	11.19	0.006041	±2.5	PASS
Band2	9400	NV	40	11.13	0.006218	±2.5	PASS
Band2	9400	NV	50	11.30	0.006032	±2.5	PASS
Band2	9538	NV	-30	12.46	0.006532	±2.5	PASS
Band2	9538	NV	-20	12.47	0.006537	±2.5	PASS
Band2	9538	NV	0	12.17	0.006380	±2.5	PASS
Band2	9538	NV	10	12.27	0.006432	±2.5	PASS
Band2	9538	NV	20	12.47	0.006537	±2.5	PASS
Band2	9538	NV	30	11.30	0.006032	±2.5	PASS
Band2	9538	NV	40	12.46	0.006532	±2.5	PASS
Band2	9538	NV	50	12.47	0.006537	±2.5	PASS
Band4	1312	NV	-30	0.42	0.000245	±2.5	PASS
Band4	1312	NV	-20	1.50	0.000876	±2.5	PASS
Band4	1312	NV	0	2.13	0.001244	±2.5	PASS
Band4	1312	NV	10	2.38	0.001390	±2.5	PASS
Band4	1312	NV	20	3.21	0.001875	±2.5	PASS
Band4	1312	NV	30	12.47	0.006537	±2.5	PASS
Band4	1312	NV	40	0.42	0.000245	±2.5	PASS
Band4	1312	NV	50	1.50	0.000876	±2.5	PASS
Band4	1413	NV	-30	-11.47	-0.006620	±2.5	PASS



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Band4	1413	NV	-20	-11.39	-0.006574	±2.5	PASS
Band4	1413	NV	0	-11.72	-0.006764	±2.5	PASS
Band4	1413	NV	10	-11.46	-0.006614	±2.5	PASS
Band4	1413	NV	20	-11.40	-0.006580	±2.5	PASS
Band4	1413	NV	30	-11.47	-0.006620	±2.5	PASS
Band4	1413	NV	40	-11.39	-0.006574	±2.5	PASS
Band4	1413	NV	50	-11.72	-0.006764	±2.5	PASS
Band4	1513	NV	-30	5.44	0.003104	±2.5	PASS
Band4	1513	NV	-20	5.35	0.003053	±2.5	PASS
Band4	1513	NV	0	5.59	0.003190	±2.5	PASS
Band4	1513	NV	10	5.35	0.003053	±2.5	PASS
Band4	1513	NV	20	5.51	0.003144	±2.5	PASS
Band4	1513	NV	30	5.59	0.003190	±2.5	PASS
Band4	1513	NV	40	5.35	0.003053	±2.5	PASS
Band4	1513	NV	50	5.51	0.003144	±2.5	PASS
Band5	4132	NV	-30	-4.89	-0.005917	±2.5	PASS
Band5	4132	NV	-20	-4.81	-0.005820	±2.5	PASS
Band5	4132	NV	0	-4.64	-0.005615	±2.5	PASS
Band5	4132	NV	10	-4.64	-0.005615	±2.5	PASS
Band5	4132	NV	20	-4.61	-0.005578	±2.5	PASS
Band5	4132	NV	30	-4.89	-0.005917	±2.5	PASS
Band5	4132	NV	40	-4.81	-0.005820	±2.5	PASS
Band5	4132	NV	50	-4.64	-0.005615	±2.5	PASS
Band5	4182	NV	-30	-0.15	-0.000179	±2.5	PASS
Band5	4182	NV	-20	-0.34	-0.000407	±2.5	PASS
Band5	4182	NV	0	-0.12	-0.000143	±2.5	PASS
Band5	4182	NV	10	-0.05	-0.000060	±2.5	PASS
Band5	4182	NV	20	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	30	-4.64	-0.005615	±2.5	PASS
Band5	4182	NV	40	-4.61	-0.005578	±2.5	PASS
Band5	4182	NV	50	-0.15	-0.000179	±2.5	PASS
Band5	4233	NV	-30	0.54	0.000638	±2.5	PASS
Band5	4233	NV	-20	0.38	0.000449	±2.5	PASS
Band5	4233	NV	0	0.42	0.000496	±2.5	PASS
Band5	4233	NV	10	0.51	0.000602	±2.5	PASS
Band5	4233	NV	20	0.49	0.000579	±2.5	PASS
Band5	4233	NV	30	-0.21	-0.000251	±2.5	PASS



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Band5	4233	NV	40	-0.12	-0.000143	±2.5	PASS
Band5	4233	NV	50	-0.05	-0.000060	±2.5	PASS

The End



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