



Appendix B

WCDMA Band II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

ANT13:

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	22.19	18.79	33.00	PASS
Band II	9400	22.18	18.78	33.00	PASS
Band II	9538	22.26	18.86	33.00	PASS
Band IV	1312	22.58	18.48	30.00	PASS
Band IV	1413	22.55	18.45	30.00	PASS
Band IV	1513	22.57	18.47	30.00	PASS

ANT13:

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.63	16.85	38.45	PASS
Band V	4182	23.68	16.9	38.45	PASS
Band V	4233	23.75	16.97	38.45	PASS

ANT31:

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.00	22.33	33.00	PASS
Band II	9400	23.02	22.35	33.00	PASS
Band II	9538	23.06	22.39	33.00	PASS
Band IV	1312	23.20	21.47	30.00	PASS
Band IV	1413	23.30	21.57	30.00	PASS
Band IV	1513	23.34	21.61	30.00	PASS

ANT41:

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.67	18.02	38.45	PASS
Band V	4182	23.63	17.98	38.45	PASS
Band V	4233	23.68	18.03	38.45	PASS

Remark:

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

$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$

$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$



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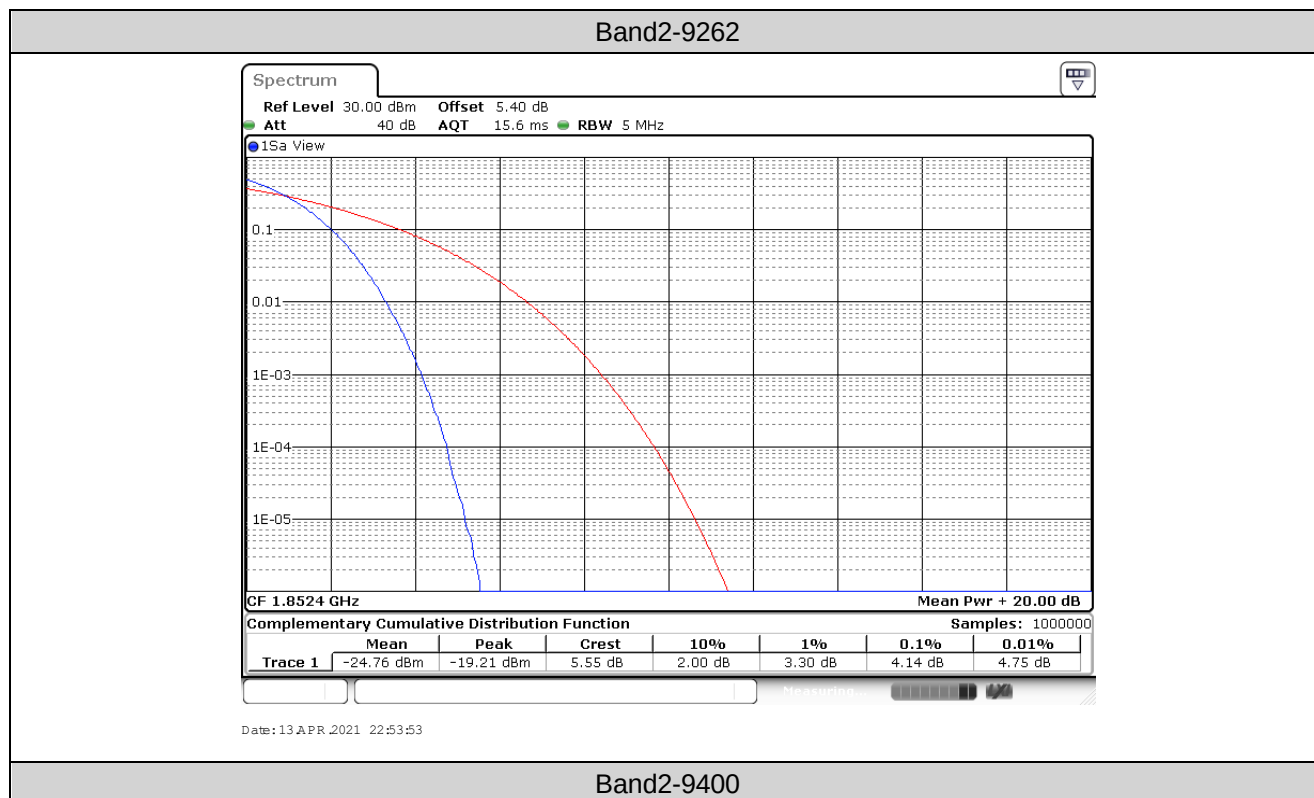


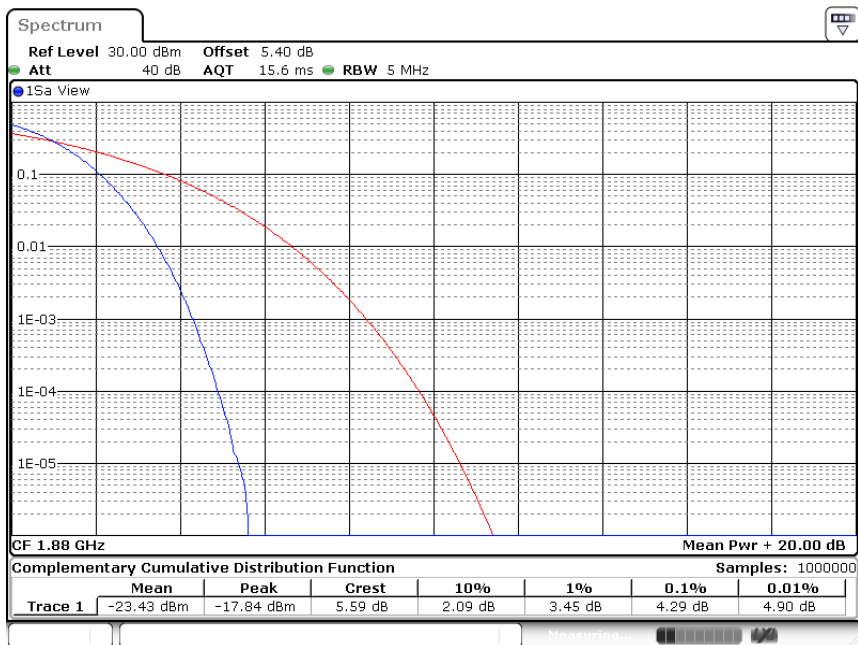
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	4.14	13	PASS
Band2	9400	4.29	13	PASS
Band2	9538	3.62	13	PASS
Band4	1312	2.87	13	PASS
Band4	1413	3.01	13	PASS
Band4	1513	2.9	13	PASS
Band5	4132	3.01	13	PASS
Band5	4182	2.96	13	PASS
Band5	4233	2.87	13	PASS

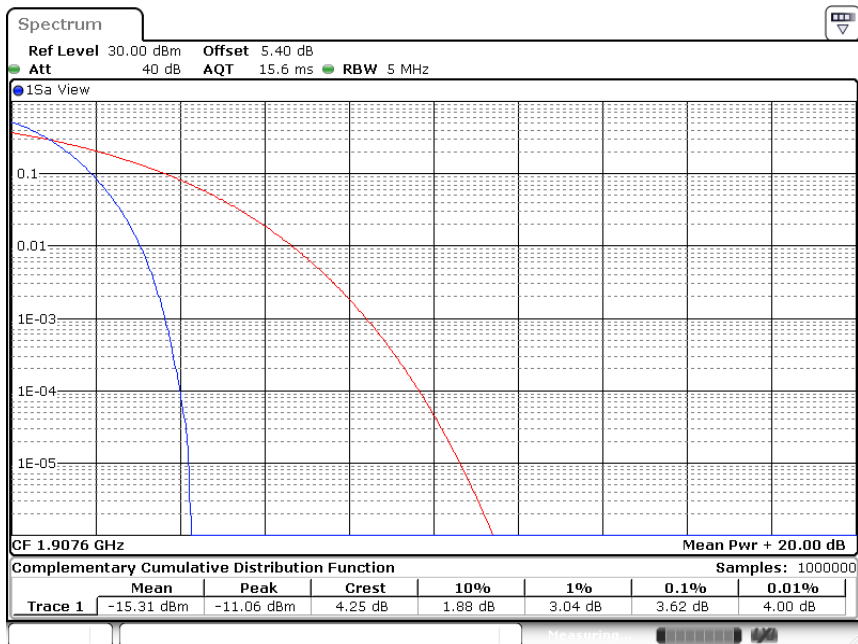
2.2. Test Plots





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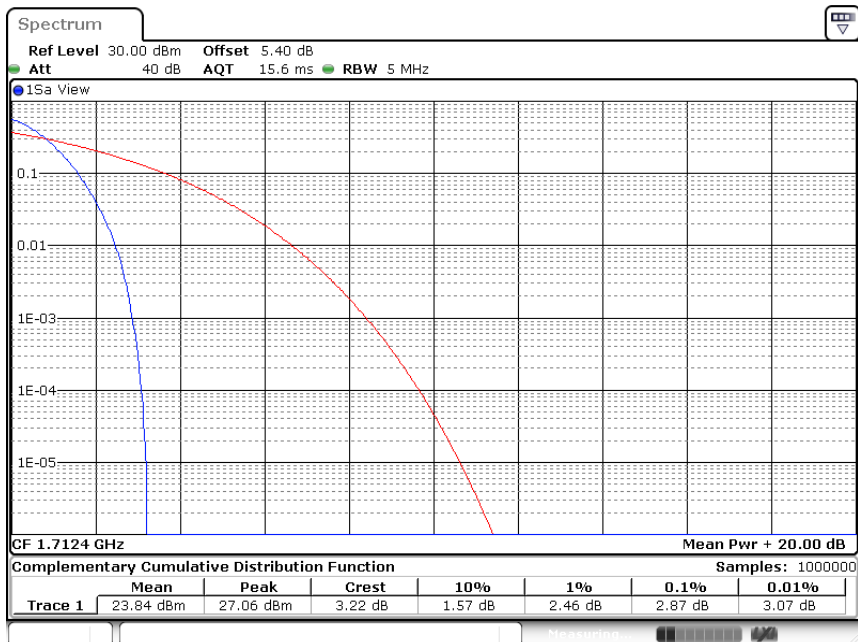
Band2-9538



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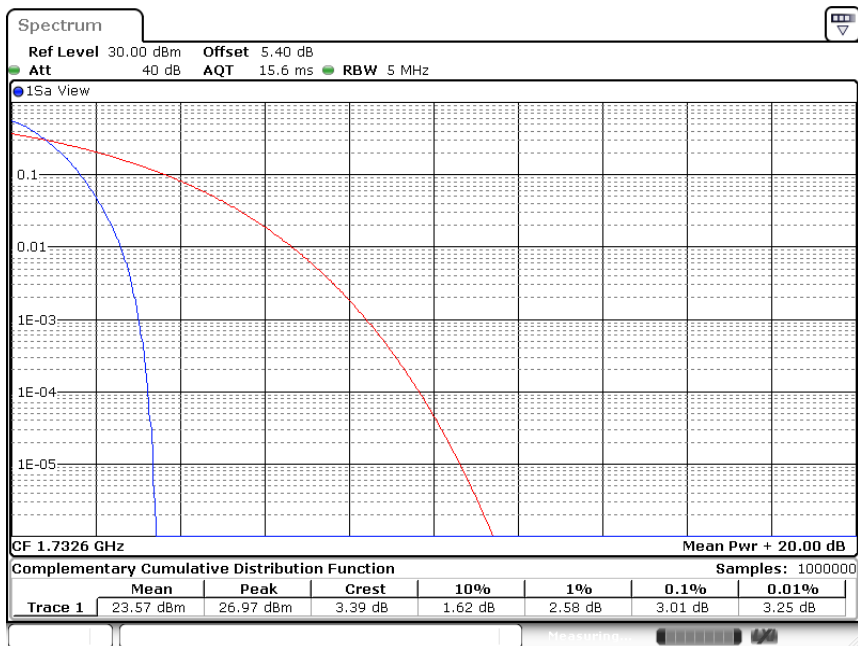


Band4-1312



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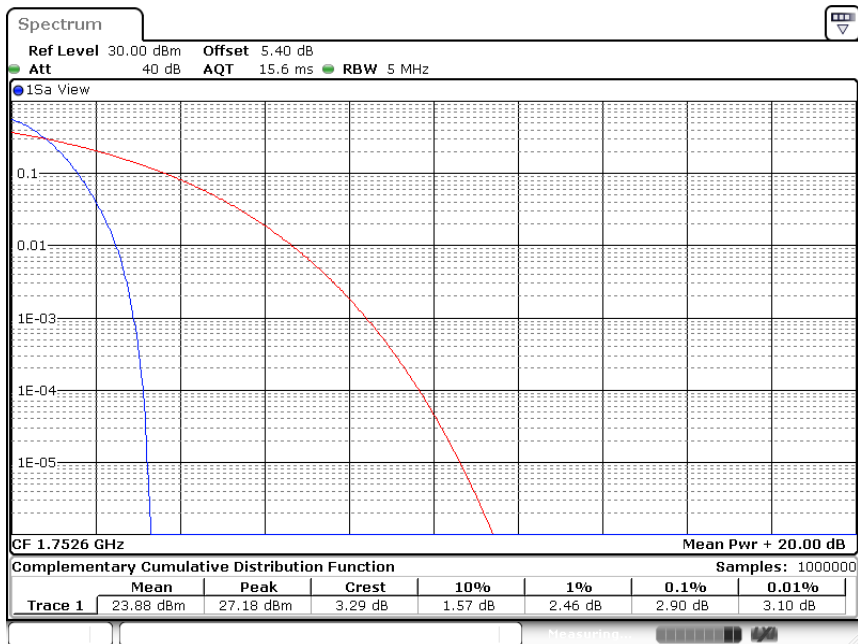
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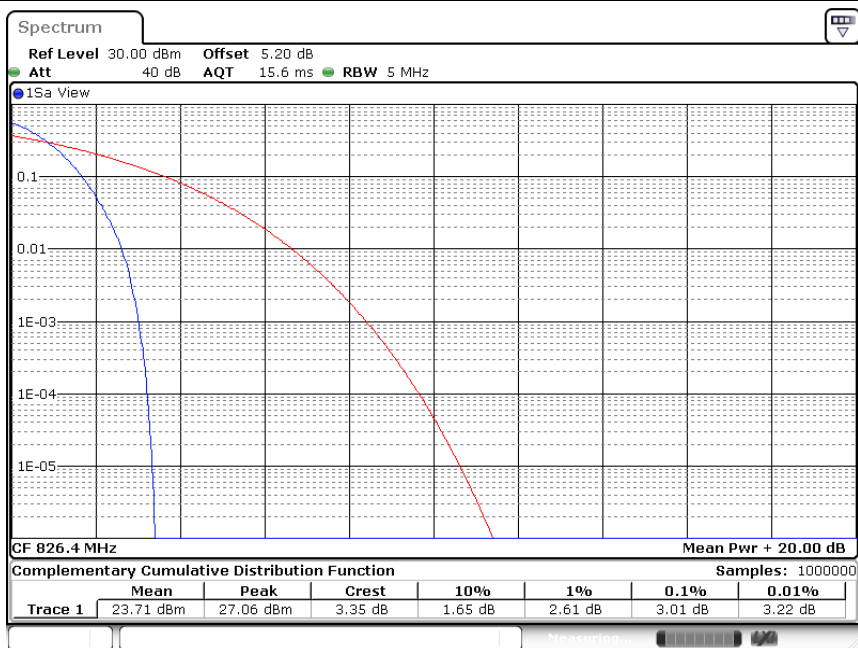


Band4-1513



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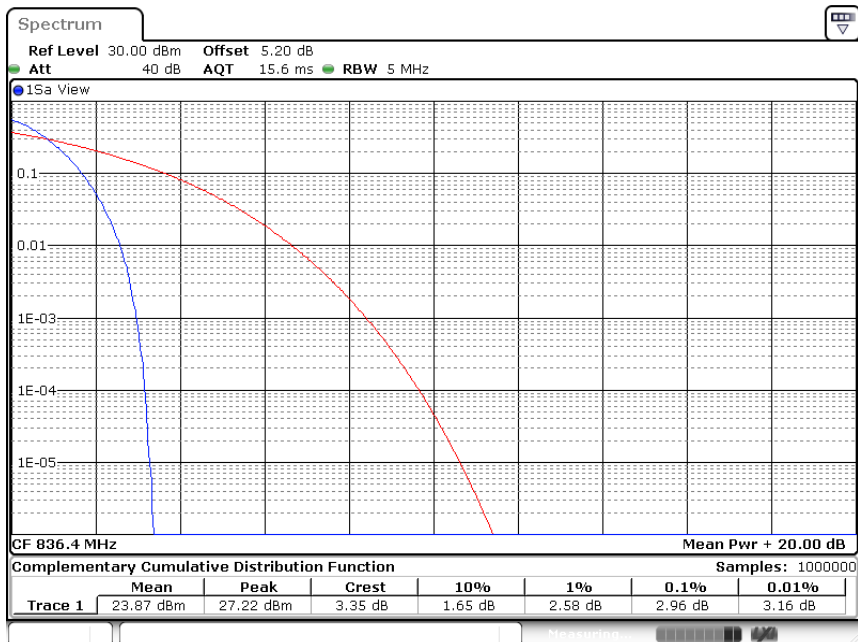
Band5-4132



Date: 13 APR 2021 23:06:15

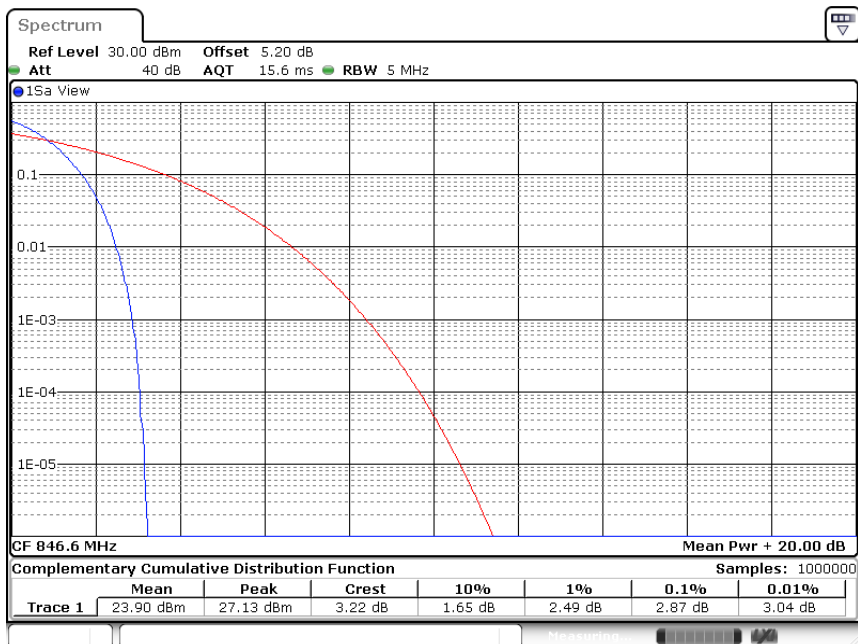


Band5-4182



Date: 13 APR 2021 23:06:29

Band5-4233



Date: 13 APR 2021 23:06:44

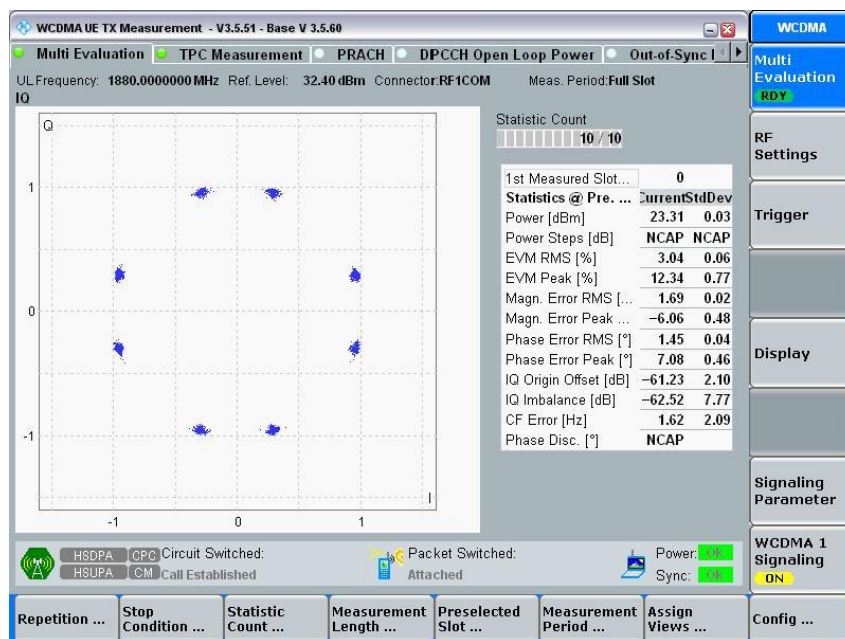


3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH

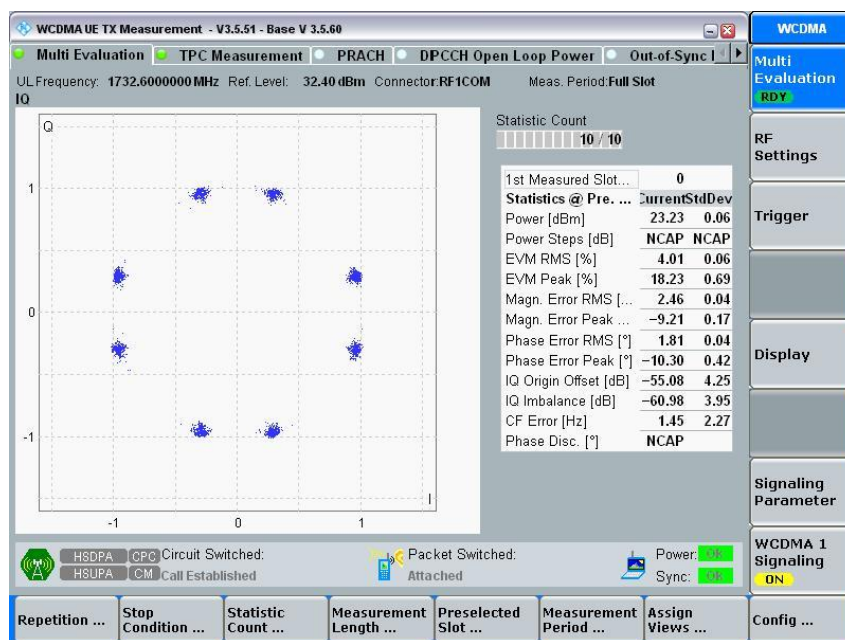


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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

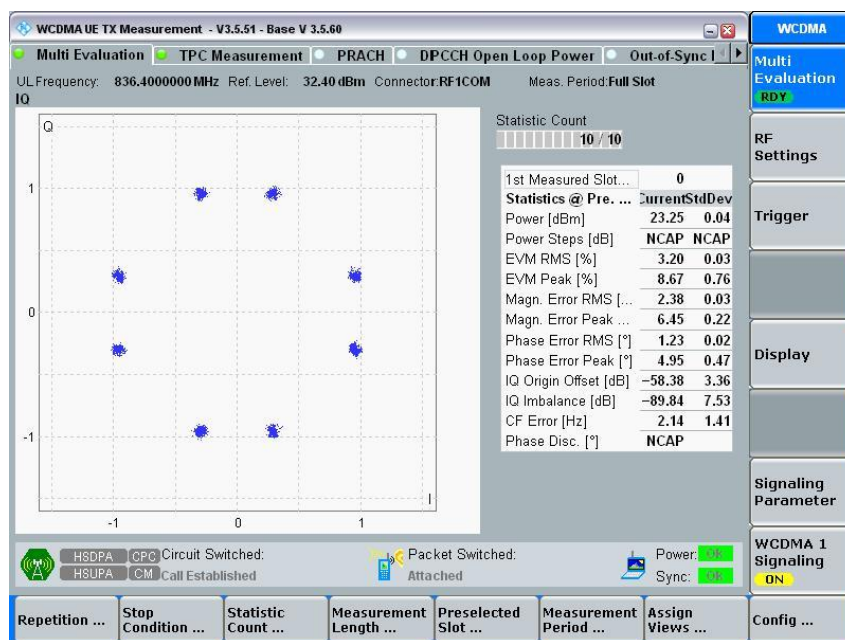
3.2.1.1. Test Channel = MCH



3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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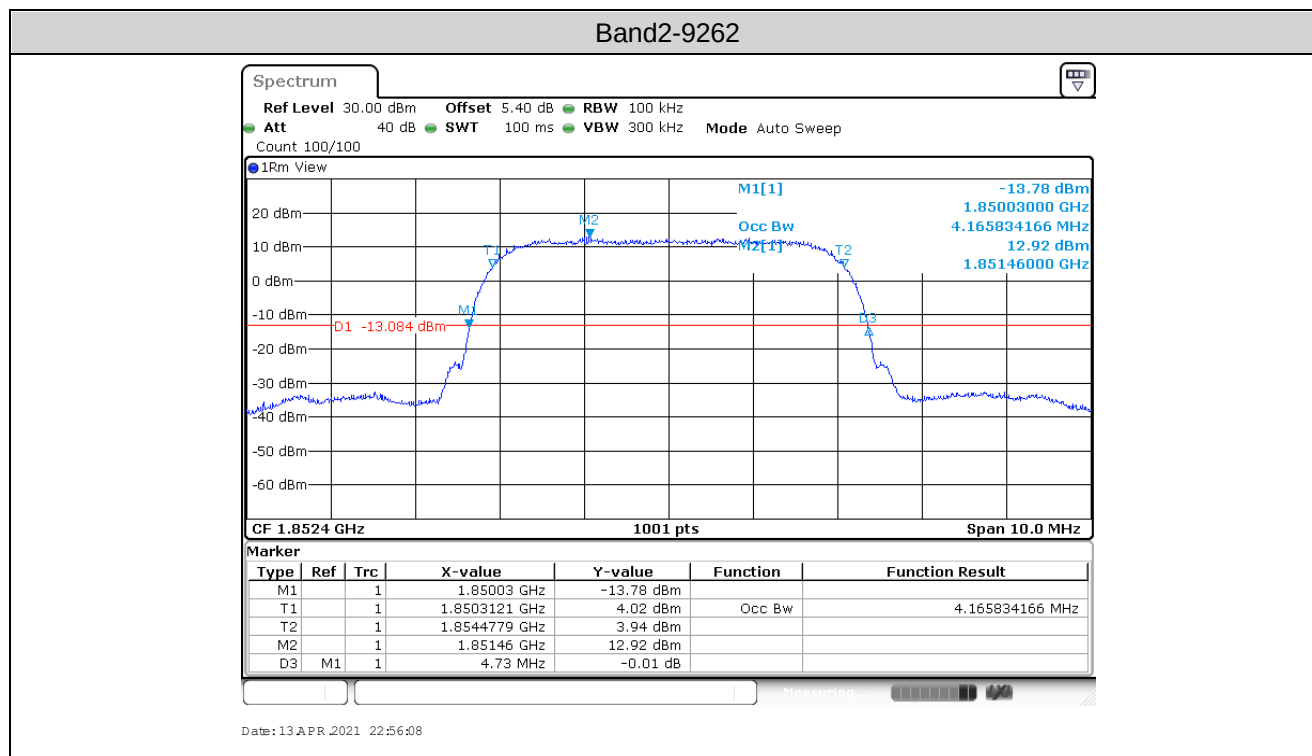


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.166	4.730	---	PASS
Band2	9400	4.156	4.730	---	PASS
Band2	9538	4.166	4.710	---	PASS
Band4	1312	4.176	4.740	---	PASS
Band4	1413	4.166	4.720	---	PASS
Band4	1513	4.156	4.740	---	PASS
Band5	4132	4.166	4.720	---	PASS
Band5	4182	4.156	4.720	---	PASS
Band5	4233	4.156	4.720	---	PASS

4.2. Test Plots

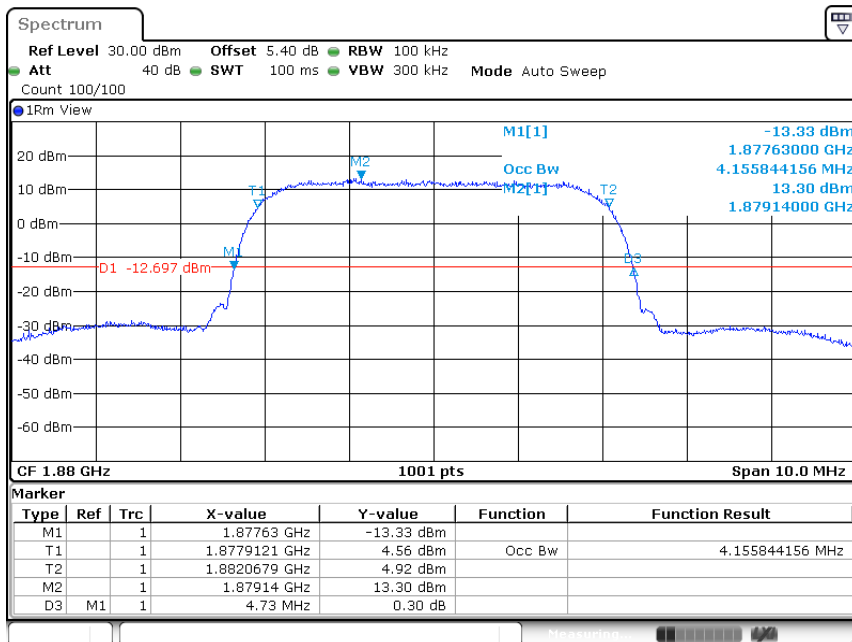


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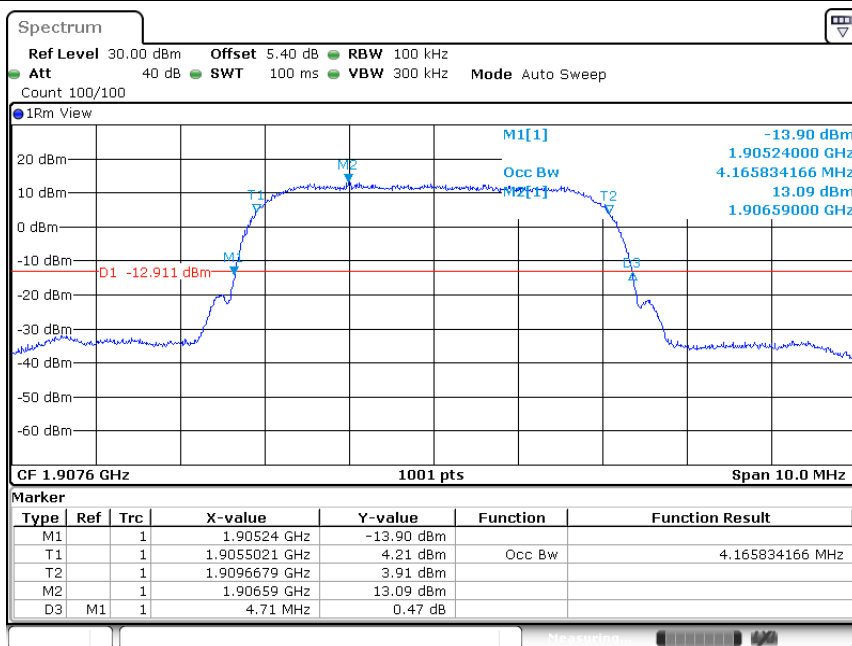
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Band2-9400



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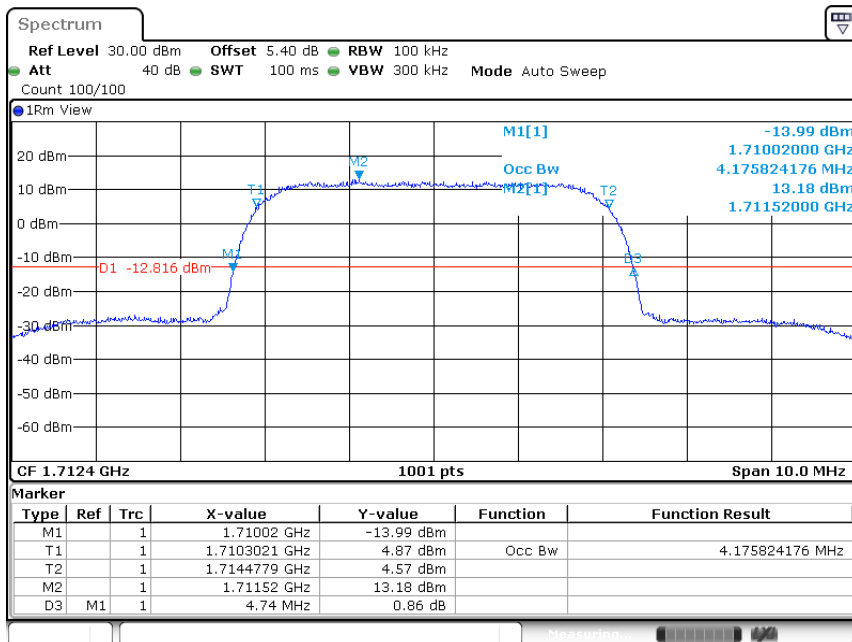
Band2-9538



Date: 13 APR 2021 22:56:55

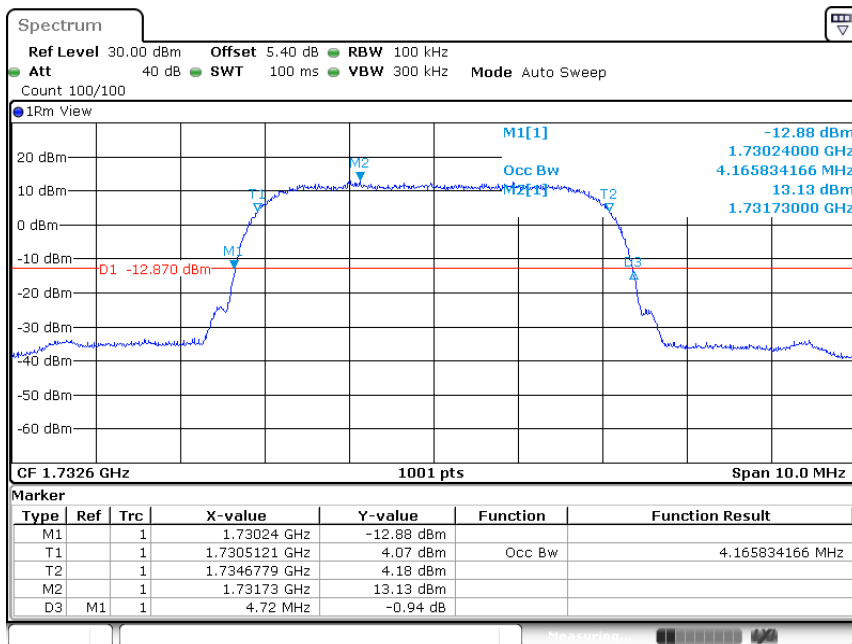


Band4-1312



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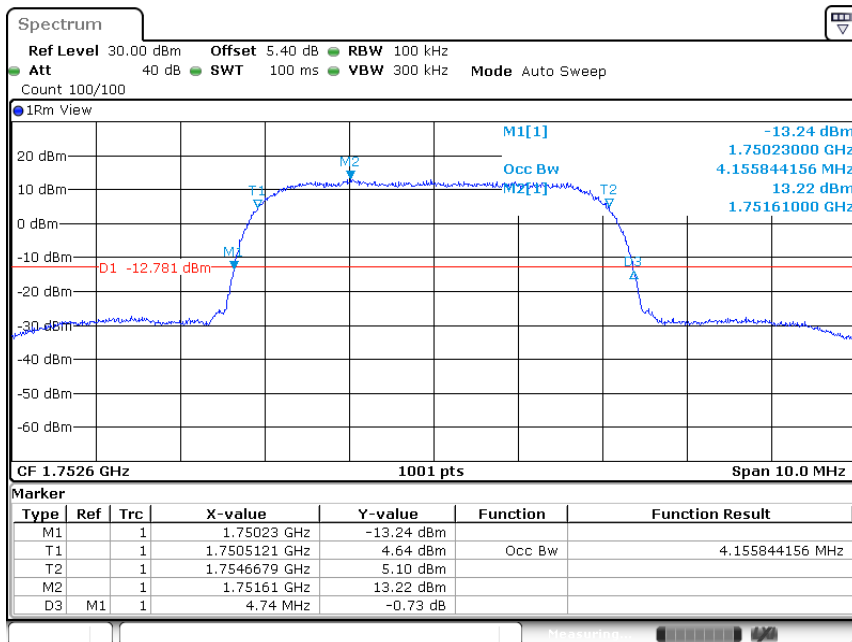
Band4-1413



Date: 13 APR 2021 23:01:35

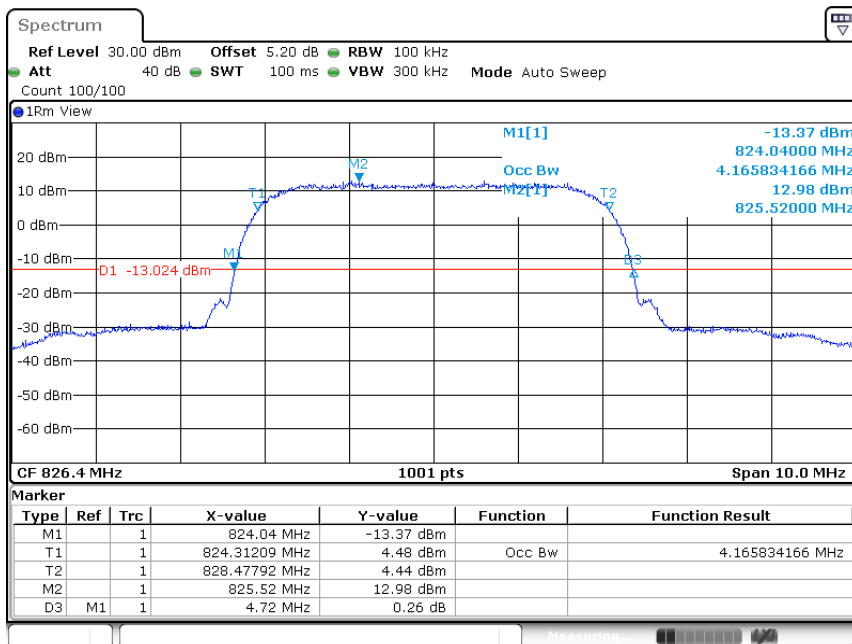


Band4-1513



Date: 13 APR 2021 23:01:58

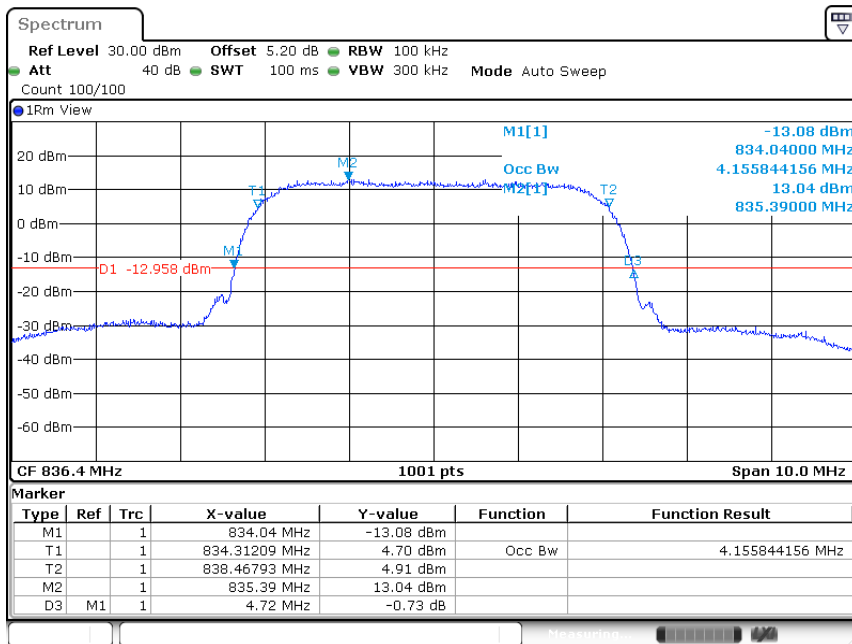
Band5-4132



Date: 13 APR 2021 23:07:08

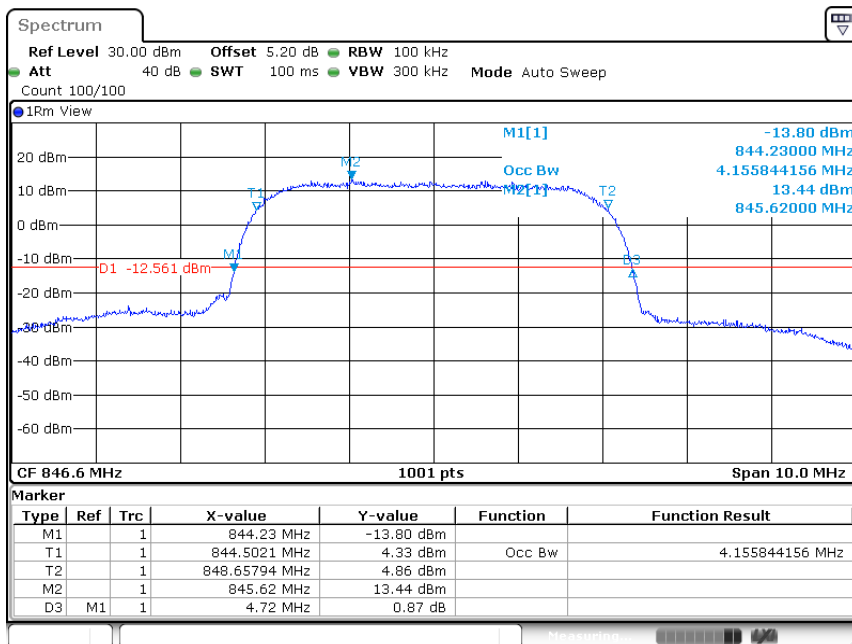


Band5-4182



Date: 13 APR 2021 23:07:31

Band5-4233

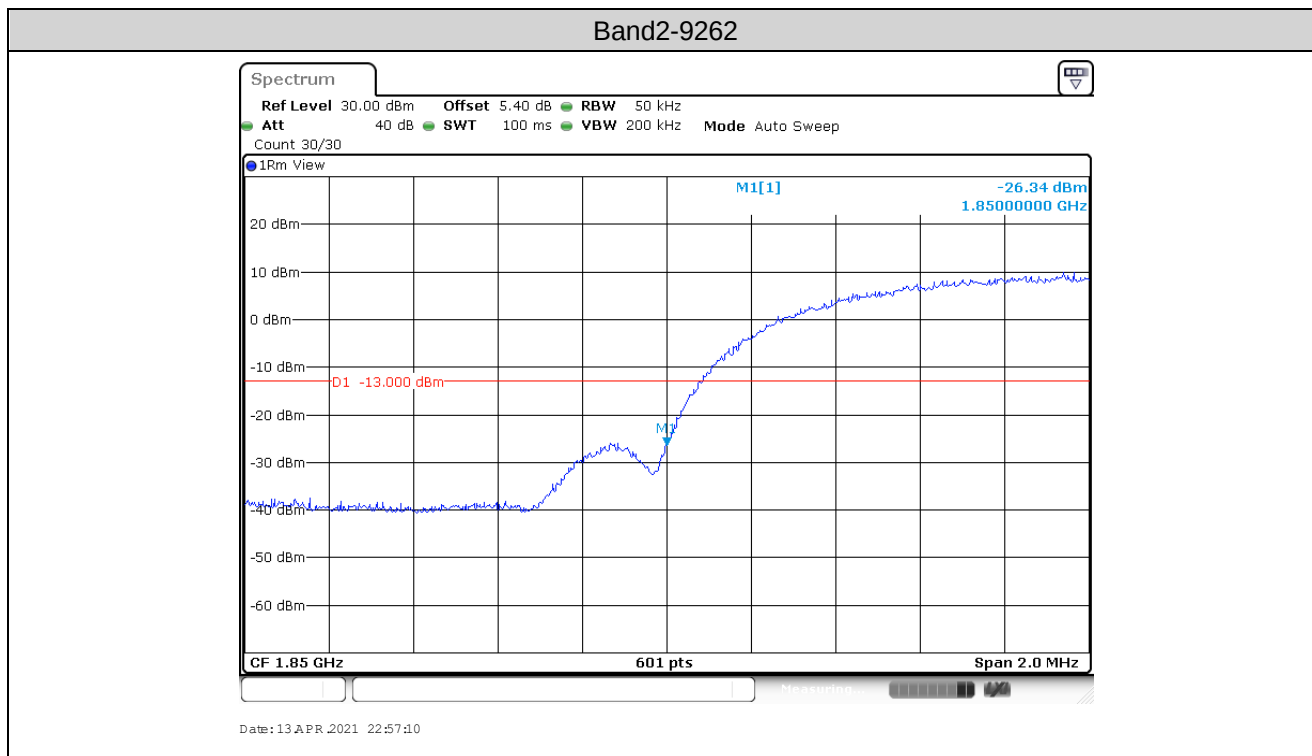


Date: 13 APR 2021 23:07:54

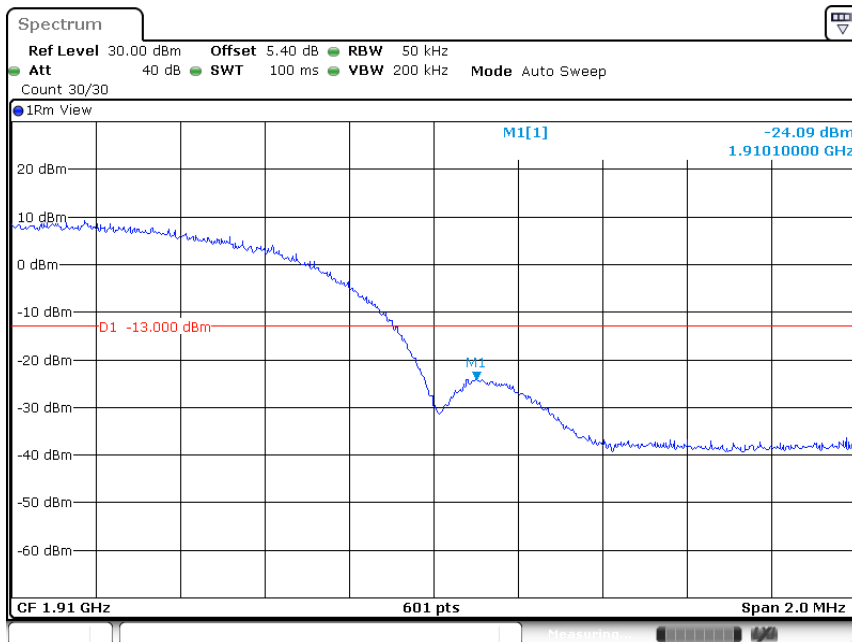


5. Band Edge Compliance

5.1. Test Plots

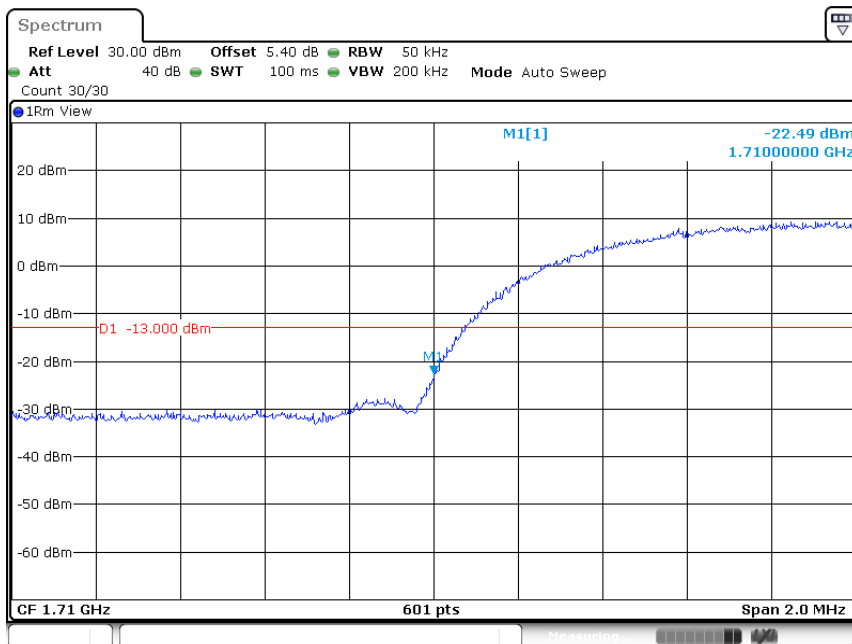


Band2-9538



Date: 13 APR 2021 22:57:25

Band4-1312

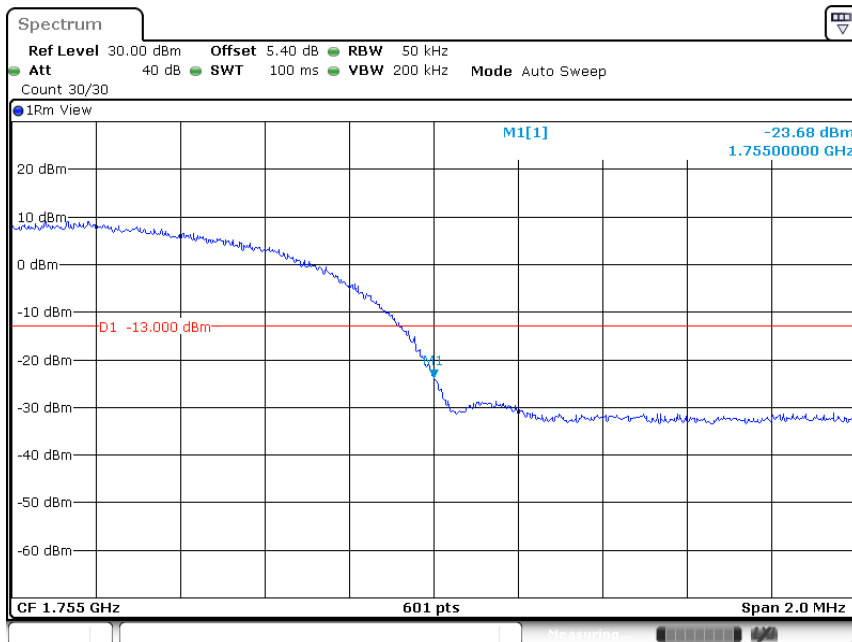


Date: 13 APR 2021 23:02:13



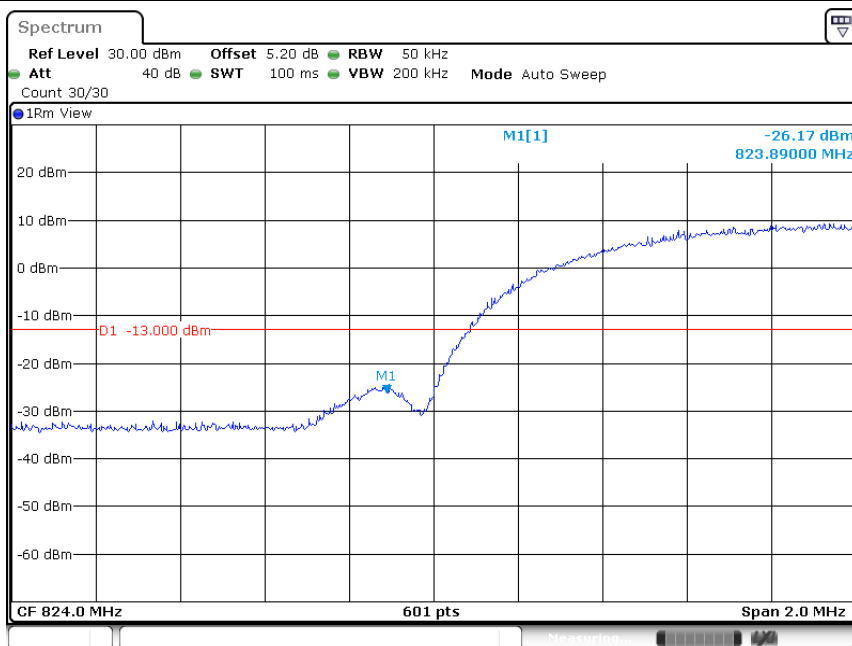
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Band4-1513



Date: 13 APR 2021 23:02:28

Band5-4132

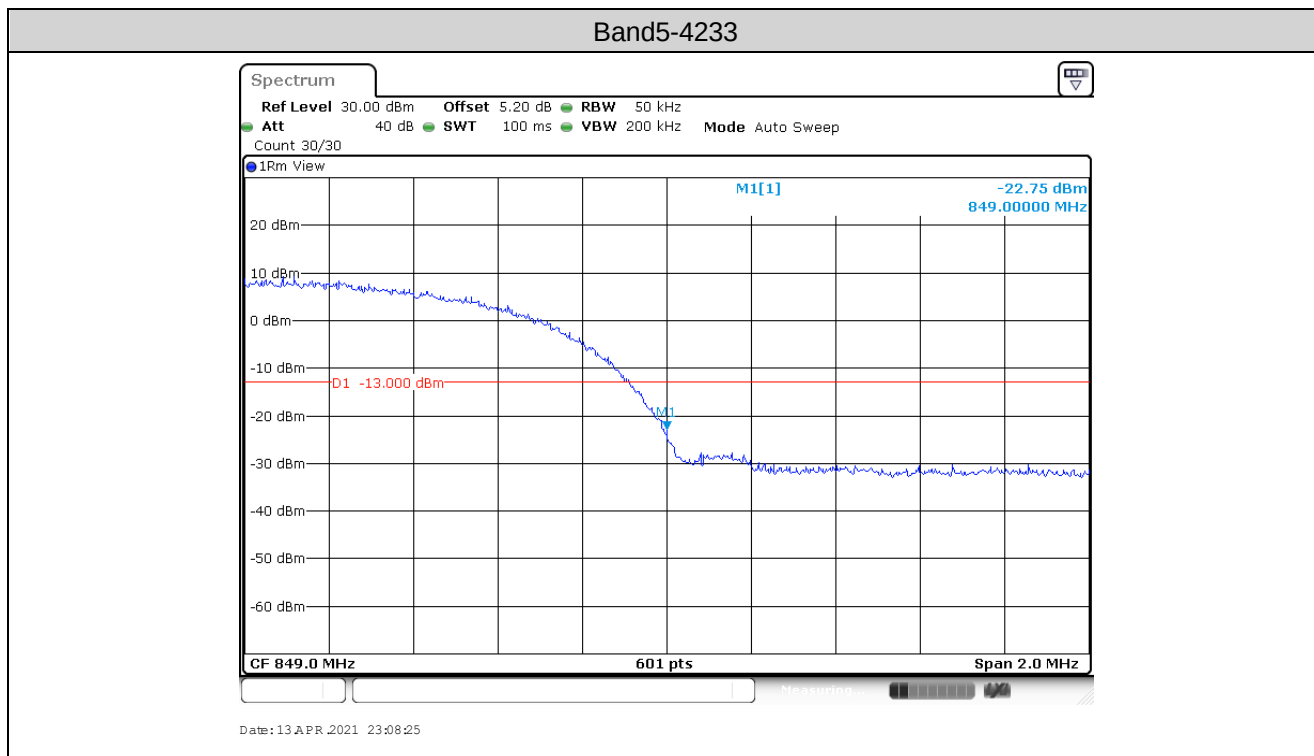


Date: 13 APR 2021 23:08:10



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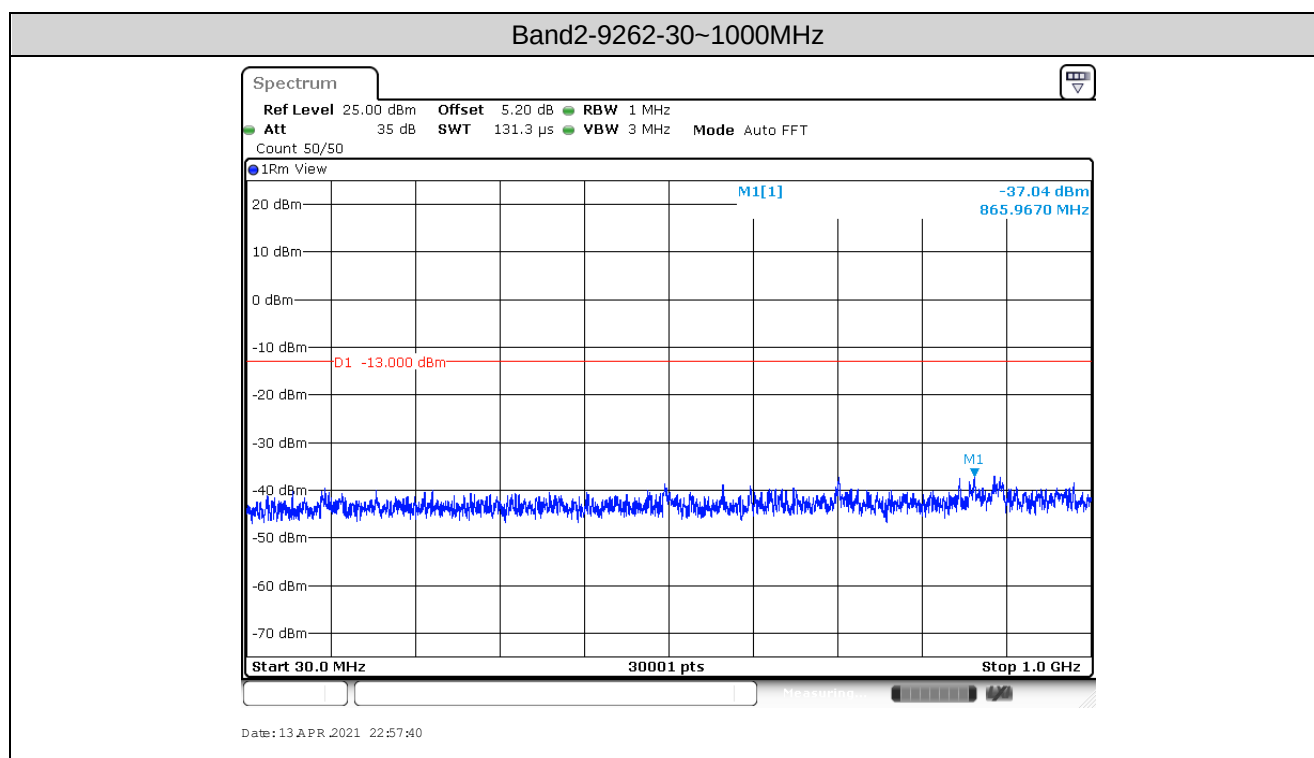


6. Spurious Emission at Antenna Terminal

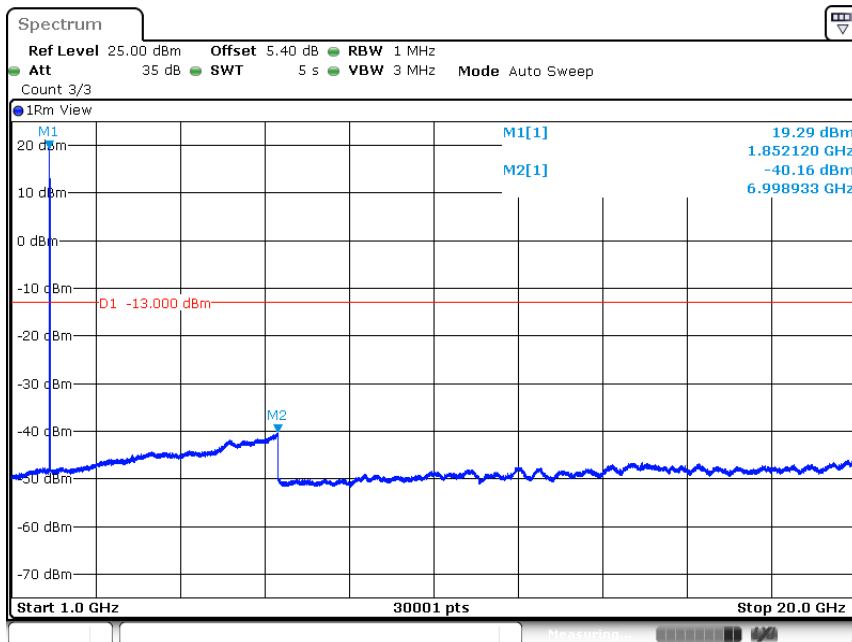
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

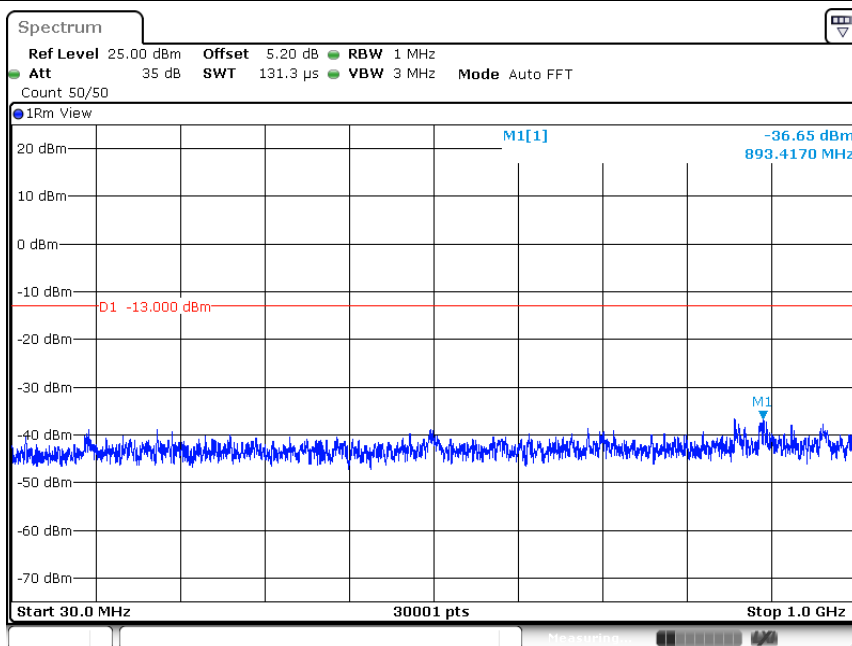


Band2-9262-1000~20000MHz



Date: 13 APR 2021 22:58:05

Band2-9400-30~1000MHz



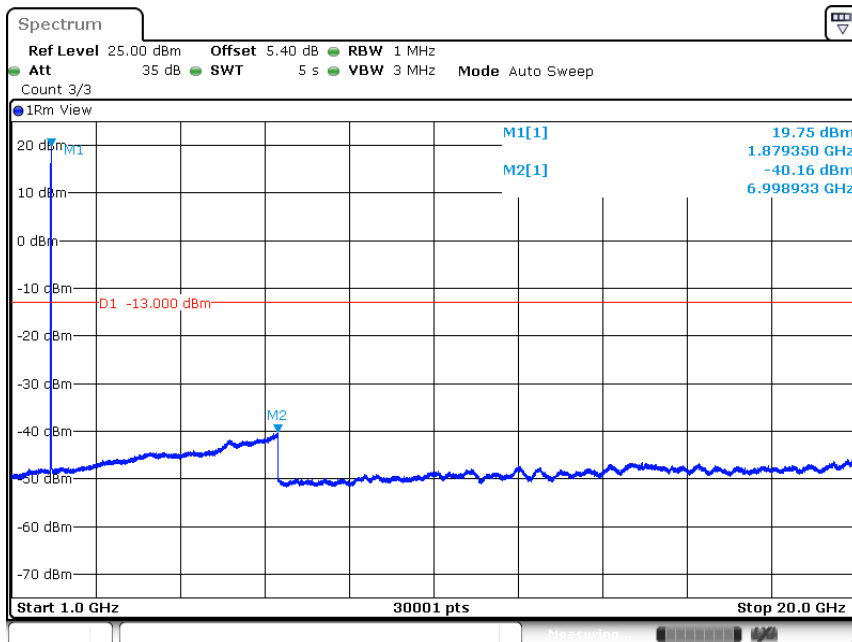
Date: 13 APR 2021 22:58:20



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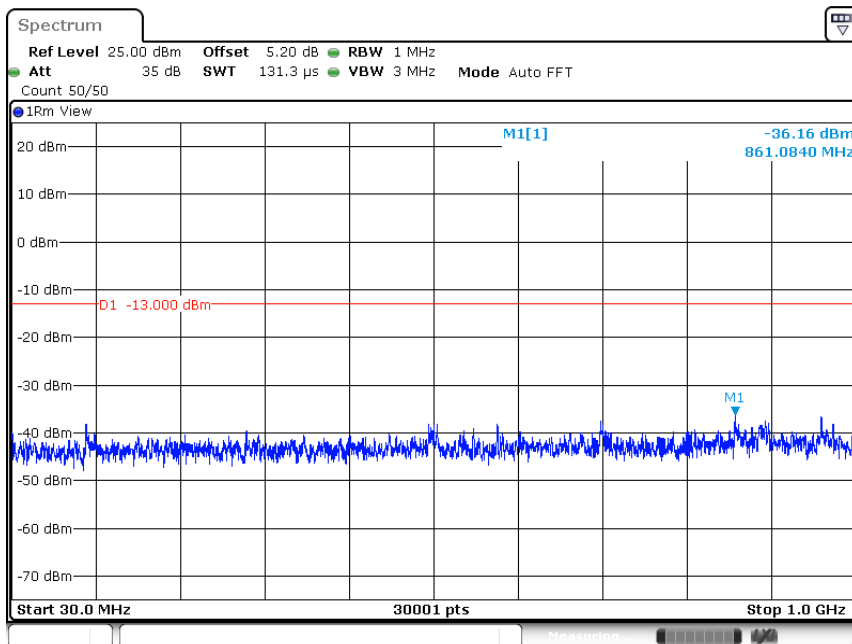
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Band2-9400-1000~20000MHz



Date: 13 APR 2021 22:58:45

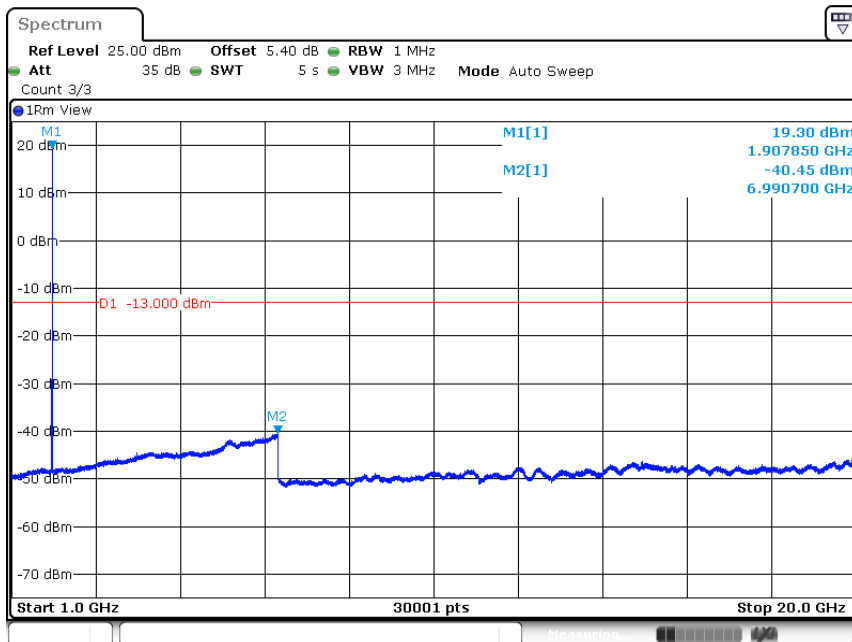
Band2-9538-30~1000MHz



Date: 13 APR 2021 22:58:59

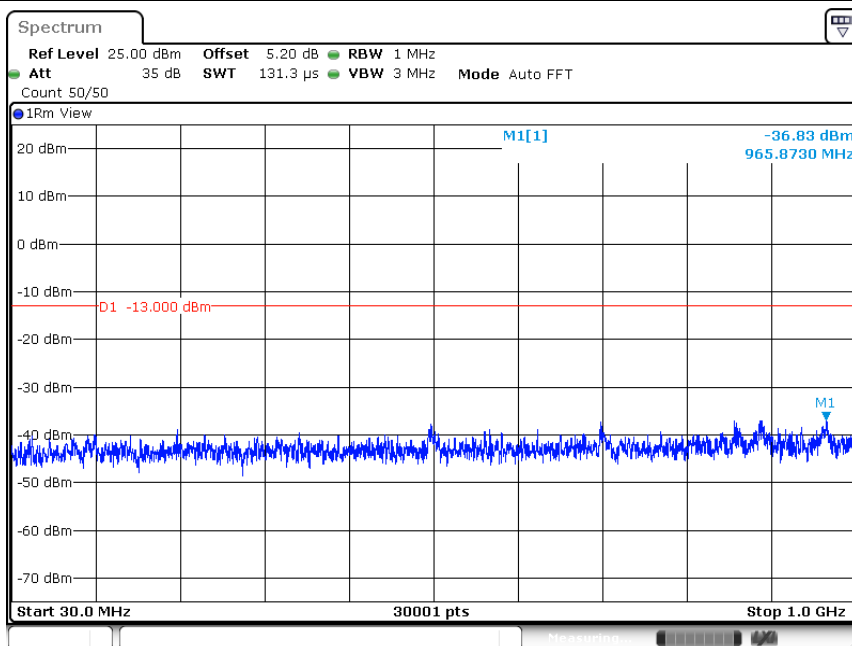


Band2-9538-1000~20000MHz



Date: 13 APR 2021 22:59:25

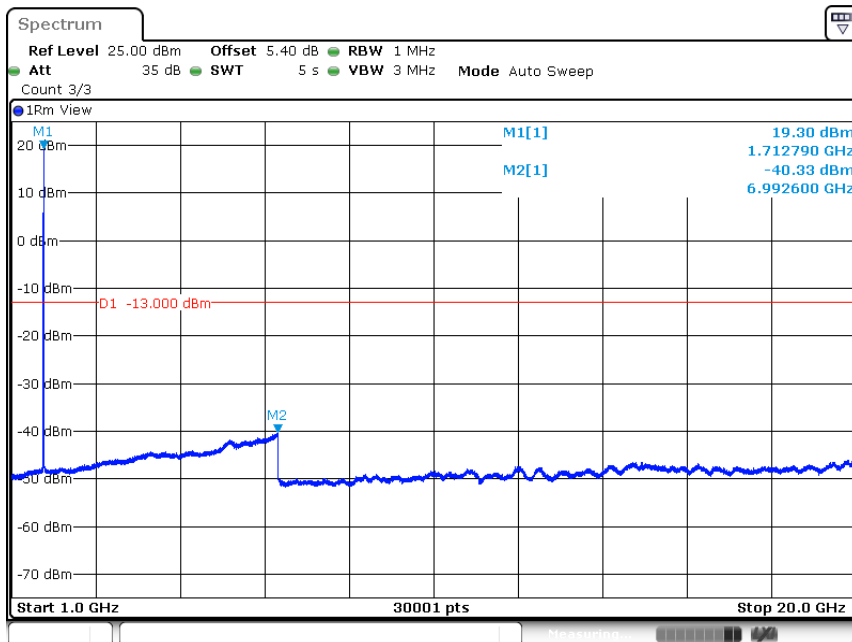
Band4-1312-30~1000MHz



Date: 13 APR 2021 23:02:43

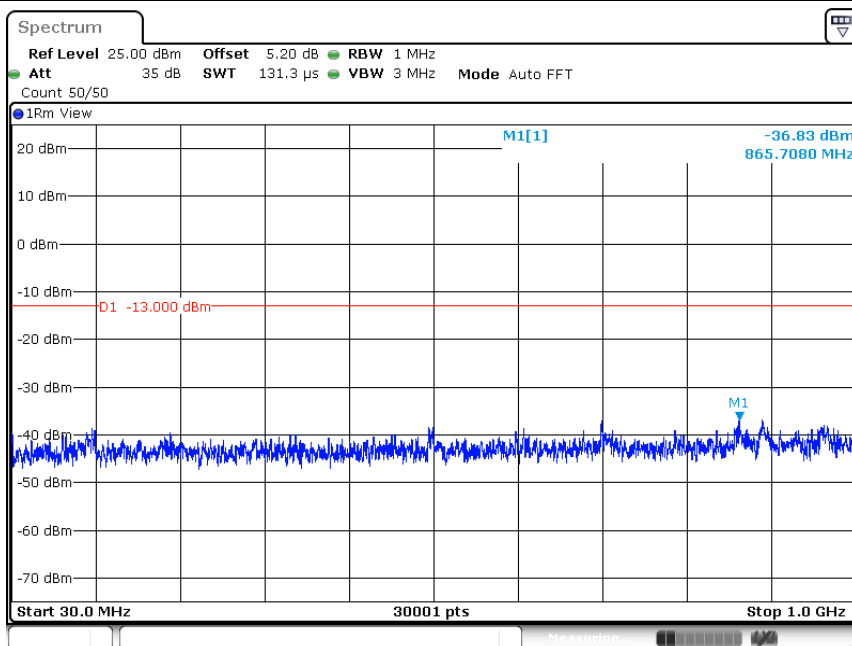


Band4-1312-1000~20000MHz



Date: 13 APR 2021 23:03:09

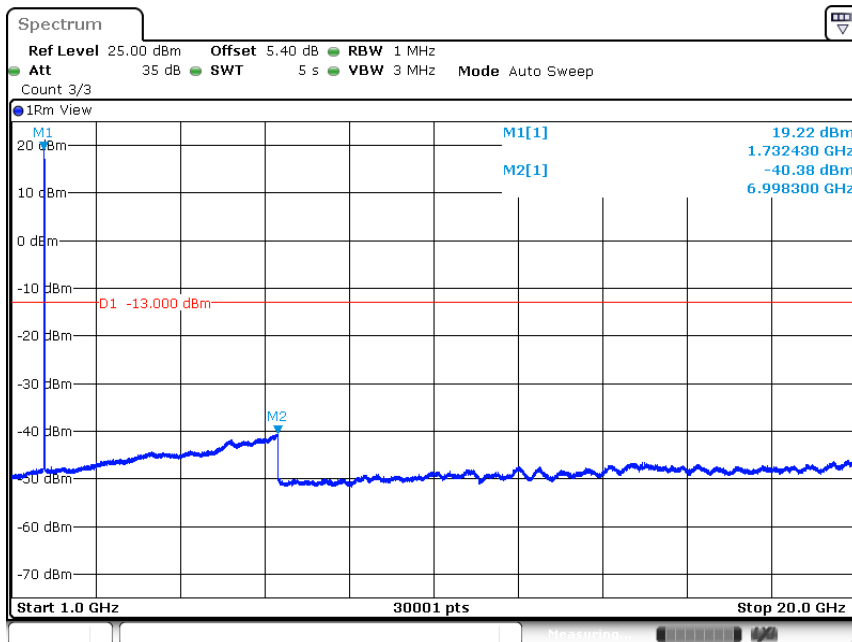
Band4-1413-30~1000MHz



Date: 13 APR 2021 23:03:23

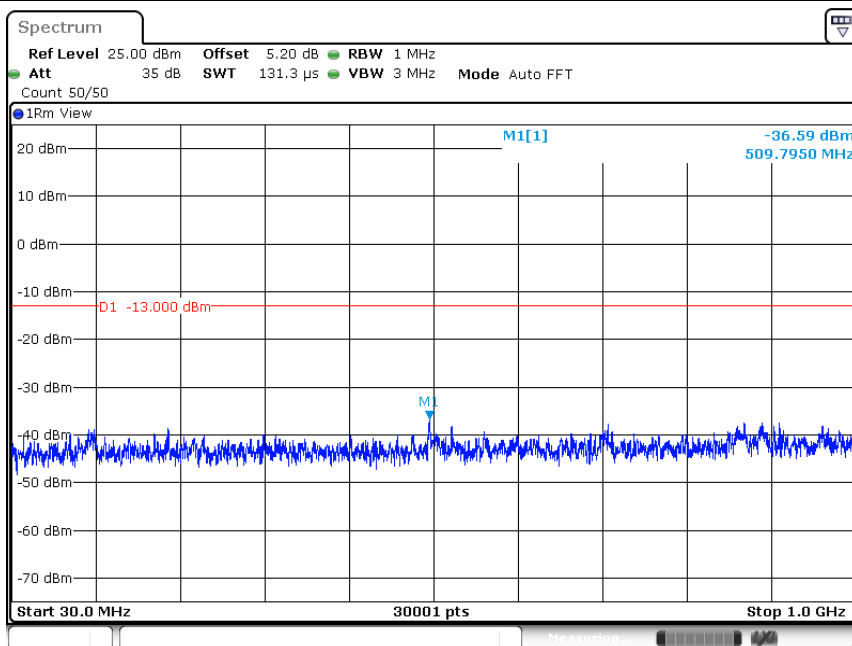


Band4-1413-1000~20000MHz



Date: 13 APR 2021 23:03:49

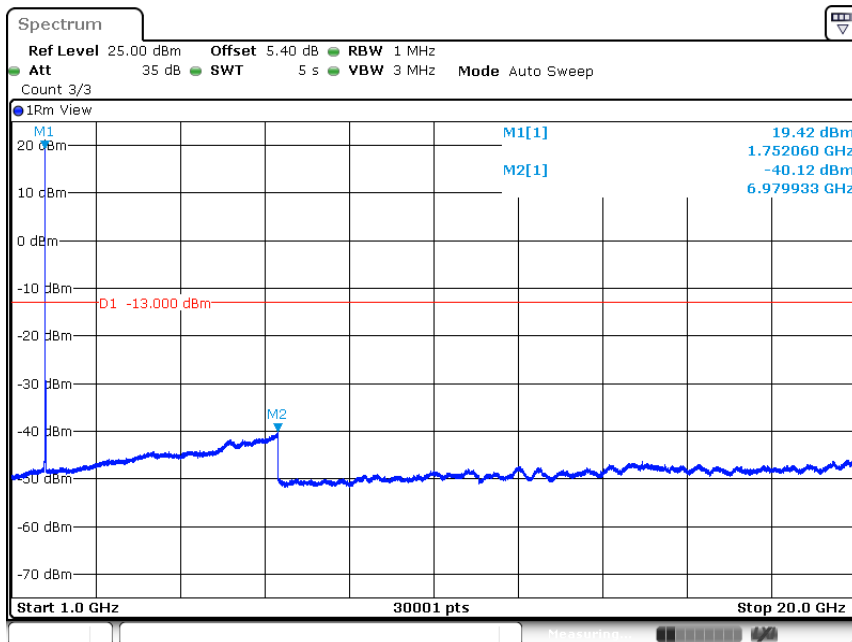
Band4-1513-30~1000MHz



Date: 13 APR 2021 23:04:03

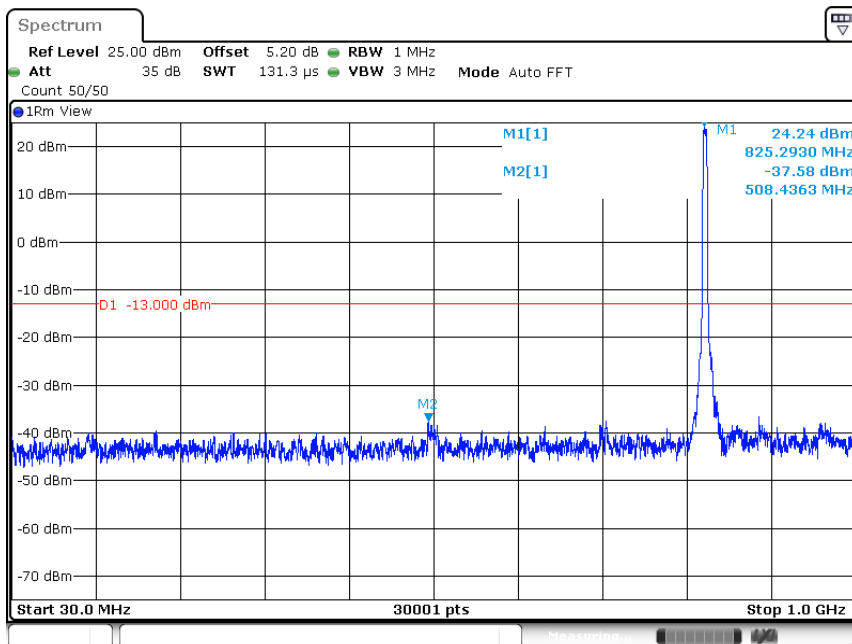


Band4-1513-1000~20000MHz



Date: 13 APR 2021 23:04:29

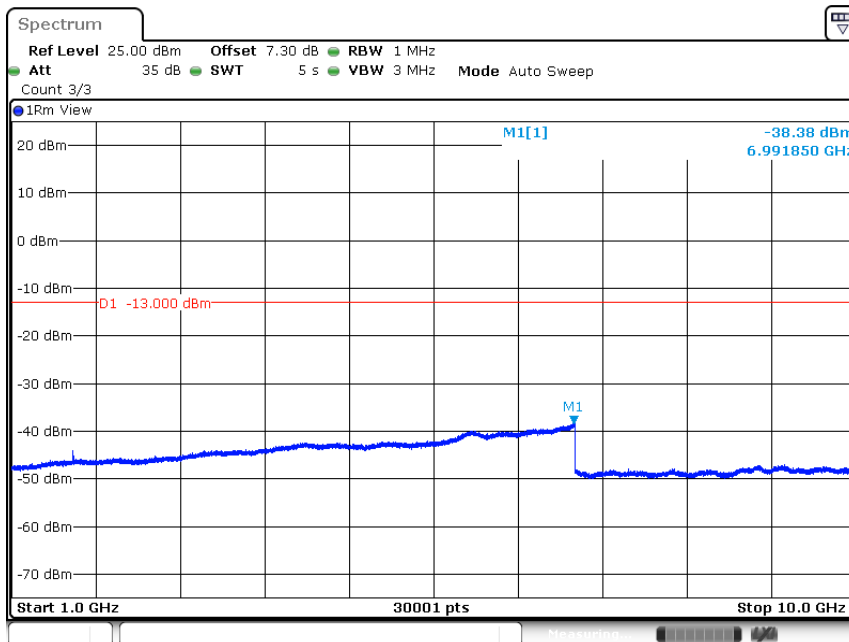
Band5-4132-30~1000MHz



Date: 13 APR 2021 23:08:41

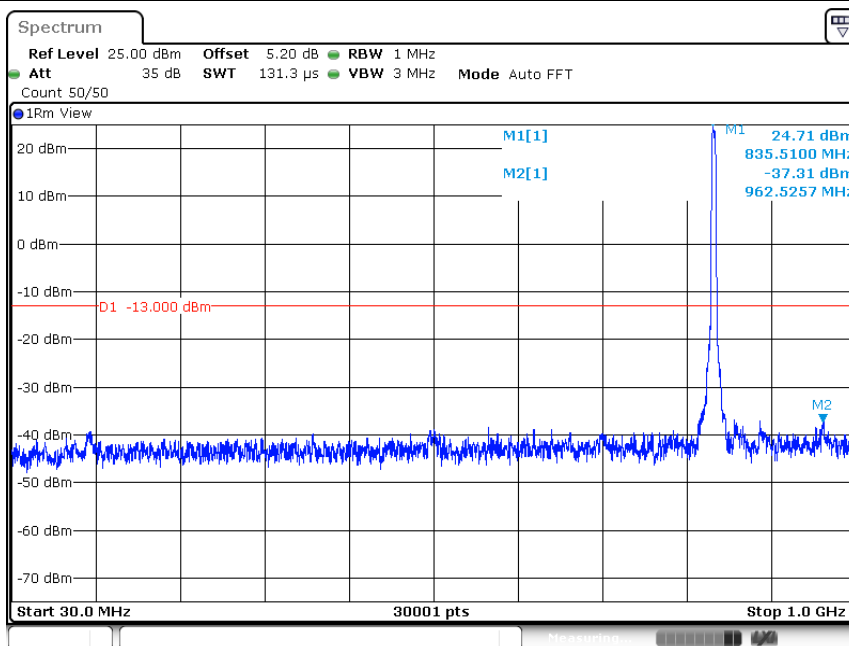


Band5-4132-1000~10000MHz



Date: 13 APR 2021 23:09:06

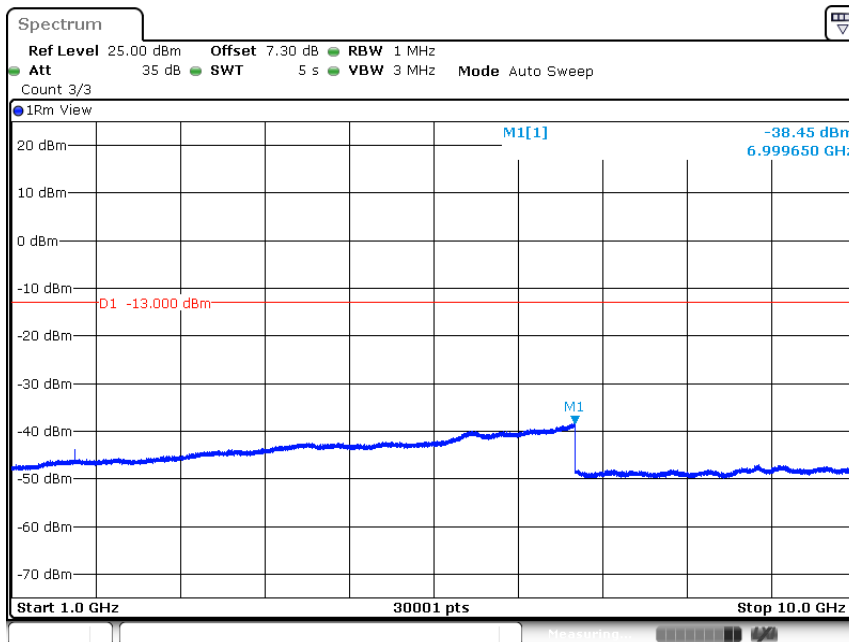
Band5-4182-30~1000MHz



Date: 13 APR 2021 23:09:21

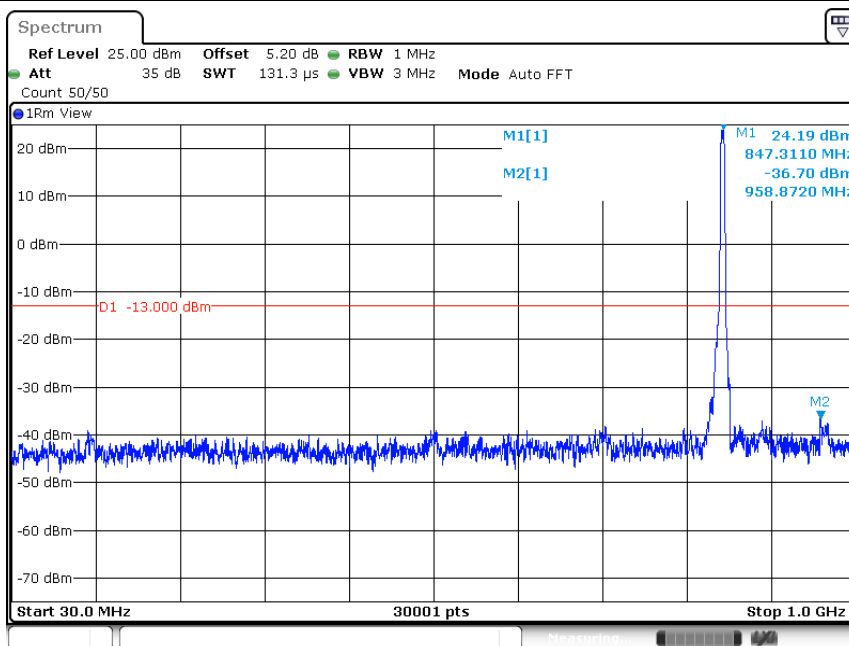


Band5-4182-1000~10000MHz



Date: 13 APR 2021 23:09:45

Band5-4233-30~1000MHz

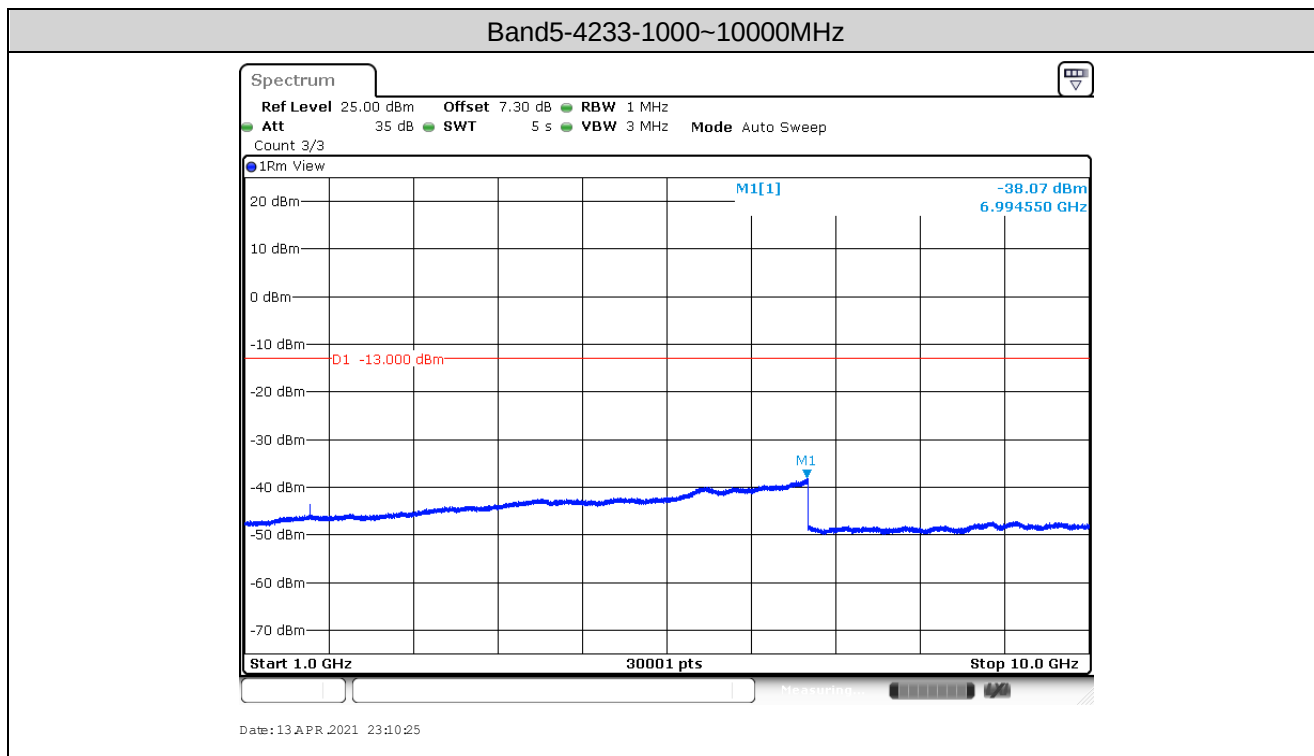


Date: 13 APR 2021 23:10:00



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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA_II_TM1 ANT13

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.2463	-66.42	-57.44	-13.00	44.44	Horizontal
2	234.7913	-65.63	-60.91	-13.00	47.91	Horizontal
3	646.0713	-64.91	-55.23	-13.00	42.23	Horizontal
4	5299.0766	-54.43	-52.84	-13.00	39.84	Horizontal
5	9253.2084	-57.62	-50.65	-13.00	37.65	Horizontal
6	16387.946	-57.67	-42.27	-13.00	29.27	Horizontal



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7.2. Test Band = WCDMA_II_TM1 ANT13

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.6100	-63.64	-65.88	-13.00	52.88	Vertical
2	111.7225	-66.36	-57.61	-13.00	44.61	Vertical
3	404.7838	-65.90	-60.49	-13.00	47.49	Vertical
4	5314.0771	-54.38	-53.49	-13.00	40.49	Vertical
5	9733.2244	-57.69	-49.77	-13.00	36.77	Vertical
6	14701.890	-58.98	-45.39	-13.00	32.39	Vertical



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7.3. Test Band = WCDMA_II_TM1 ANT13

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8225	-65.33	-56.27	-13.00	43.27	Horizontal
2	244.1275	-65.81	-61.25	-13.00	48.25	Horizontal
3	666.8050	-66.14	-55.88	-13.00	42.88	Horizontal
4	5372.5791	-53.33	-52.96	-13.00	39.96	Horizontal
5	9746.7249	-57.42	-50.39	-13.00	37.39	Horizontal
6	16417.447	-57.62	-42.44	-13.00	29.44	Horizontal



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7.4. Test Band = WCDMA_II_TM1 ANT13

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.5213	-65.96	-65.15	-13.00	52.15	Vertical
2	110.7525	-66.26	-57.42	-13.00	44.42	Vertical
3	603.6338	-65.53	-56.08	-13.00	43.08	Vertical
4	5298.0766	-54.63	-53.59	-13.00	40.59	Vertical
5	9874.7292	-57.34	-49.59	-13.00	36.59	Vertical
6	14704.390	-58.90	-45.36	-13.00	32.36	Vertical



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7.5. Test Band = WCDMA_II_TM1 ANT13

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.2163	-66.36	-57.33	-13.00	44.33	Horizontal
2	229.3350	-65.98	-61.03	-13.00	48.03	Horizontal
3	578.8988	-66.17	-56.76	-13.00	43.76	Horizontal
4	5295.0765	-54.74	-53.24	-13.00	40.24	Horizontal
5	9302.2101	-57.27	-50.55	-13.00	37.55	Horizontal
6	16419.947	-57.71	-42.63	-13.00	29.63	Horizontal



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7.6. Test Band = WCDMA_II_TM1 ANT13

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1863	-66.27	-67.15	-13.00	54.15	Vertical
2	112.2075	-65.40	-56.70	-13.00	43.70	Vertical
3	445.0388	-65.72	-59.69	-13.00	46.69	Vertical
4	5302.5768	-54.68	-53.64	-13.00	40.64	Vertical
5	10401.746	-57.97	-49.27	-13.00	36.27	Vertical
6	14545.884	-59.80	-45.43	-13.00	32.43	Vertical



7.7. Test Band = WCDMA_IV_TM1 ANT13

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.2763	-56.66	-47.73	-13.00	34.73	Horizontal
2	231.7600	-56.20	-51.26	-13.00	38.26	Horizontal
3	578.1713	-57.13	-47.77	-13.00	34.77	Horizontal
4	5319.0773	-51.95	-50.63	-13.00	37.63	Horizontal
5	10747.758	-54.72	-47.40	-13.00	34.40	Horizontal
6	17001.966	-54.45	-37.94	-13.00	24.94	Horizontal



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7.8. Test Band = WCDMA_IV_TM1 ANT13

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.3988	-57.02	-57.11	-13.00	44.11	Vertical
2	110.5100	-57.09	-48.22	-13.00	35.22	Vertical
3	399.5700	-56.80	-51.30	-13.00	38.30	Vertical
4	5236.5746	-52.14	-52.34	-13.00	39.34	Vertical
5	10407.246	-55.61	-46.94	-13.00	33.94	Vertical
6	14902.396	-55.25	-41.21	-13.00	28.21	Vertical



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7.9. Test Band = WCDMA_IV_TM1 ANT13

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.4288	-56.58	-47.49	-13.00	34.49	Horizontal
2	229.8200	-56.58	-51.55	-13.00	38.55	Horizontal
3	606.9075	-55.84	-46.15	-13.00	33.15	Horizontal
4	5340.5780	-51.53	-50.53	-13.00	37.53	Horizontal
5	9250.2083	-54.69	-47.71	-13.00	34.71	Horizontal
6	16413.947	-54.24	-38.92	-13.00	25.92	Horizontal



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7.10. Test Band = WCDMA_IV_TM1 ANT13

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.8550	-57.05	-56.20	-13.00	43.20	Vertical
2	114.2688	-56.62	-48.13	-13.00	35.13	Vertical
3	459.1038	-56.23	-49.61	-13.00	36.61	Vertical
4	5301.0767	-51.99	-50.92	-13.00	37.92	Vertical
5	7497.1499	-51.07	-49.05	-13.00	36.05	Vertical
6	14522.884	-55.97	-42.04	-13.00	29.04	Vertical



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7.11. Test Band = WCDMA_IV_TM1 ANT13

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.0050	-56.53	-47.98	-13.00	34.98	Horizontal
2	230.1838	-57.16	-52.11	-13.00	39.11	Horizontal
3	610.4238	-56.52	-46.64	-13.00	33.64	Horizontal
4	5311.0770	-52.19	-50.75	-13.00	37.75	Horizontal
5	7485.1495	-51.34	-49.50	-13.00	36.50	Horizontal
6	16384.446	-54.15	-38.89	-13.00	25.89	Horizontal



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7.12. Test Band = WCDMA_IV_TM1 ANT13

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	48.1875	-56.98	-56.46	-13.00	43.46	Vertical
2	107.7213	-57.04	-48.82	-13.00	35.82	Vertical
3	381.2613	-56.24	-51.09	-13.00	38.09	Vertical
4	5319.5773	-51.92	-51.11	-13.00	38.11	Vertical
5	9670.7224	-55.19	-47.59	-13.00	34.59	Vertical
6	14538.384	-55.89	-41.67	-13.00	28.67	Vertical



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7.13. Test Band = WCDMA_V_TM1 ANT13

7.13.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.5200	-65.42	-56.60	-13.00	43.60	Horizontal
2	224.0000	-66.08	-62.05	-13.00	49.05	Horizontal
3	500.3288	-65.85	-58.53	-13.00	45.53	Horizontal
4	2709.5000	-59.44	-47.80	-13.00	34.80	Horizontal
5	5312.4104	-54.07	-52.65	-13.00	39.65	Horizontal
6	9360.1787	-57.24	-50.60	-13.00	37.60	Horizontal



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7.14. Test Band = WCDMA_V_TM1 ANT13

7.14.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8225	-65.52	-66.72	-13.00	53.72	Vertical
2	109.5400	-66.83	-58.05	-13.00	45.05	Vertical
3	367.5600	-65.71	-61.01	-13.00	48.01	Vertical
4	2227.5000	-57.72	-49.54	-13.00	36.54	Vertical
5	5305.6435	-54.26	-53.26	-13.00	40.26	Vertical
6	9048.4349	-57.01	-51.59	-13.00	38.59	Vertical



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7.15. Test Band = WCDMA_V_TM1 ANT13

7.15.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.2163	-66.72	-57.69	-13.00	44.69	Horizontal
2	232.8513	-65.62	-60.76	-13.00	47.76	Horizontal
3	556.3463	-66.30	-57.94	-13.00	44.94	Horizontal
4	1781.0000	-57.77	-53.27	-13.00	40.27	Horizontal
5	2423.2500	-56.57	-47.98	-13.00	34.98	Horizontal
6	5318.7106	-54.53	-53.20	-13.00	40.20	Horizontal



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7.16. Test Band = WCDMA_V_TM1 ANT13

7.16.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.8525	-64.75	-66.78	-13.00	53.78	Vertical
2	115.6025	-64.84	-56.49	-13.00	43.49	Vertical
3	383.8075	-65.89	-60.65	-13.00	47.65	Vertical
4	2480.7500	-52.09	-44.31	-13.00	31.31	Vertical
5	5315.4438	-54.56	-53.69	-13.00	40.69	Vertical
6	9121.4707	-56.91	-51.63	-13.00	38.63	Vertical



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7.17. Test Band = WCDMA_V_TM1 ANT13

7.17.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.4288	-67.02	-57.93	-13.00	44.93	Horizontal
2	226.9100	-65.83	-61.30	-13.00	48.30	Horizontal
3	474.3813	-66.27	-59.98	-13.00	46.98	Horizontal
4	2413.2500	-54.87	-46.67	-13.00	33.67	Horizontal
5	5297.4766	-54.64	-53.08	-13.00	40.08	Horizontal
6	8782.8928	-56.55	-51.97	-13.00	38.97	Horizontal



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7.18. Test Band = WCDMA_V_TM1 ANT13

7.18.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.0063	-66.62	-65.70	-13.00	52.70	Vertical
2	110.3888	-66.25	-57.37	-13.00	44.37	Vertical
3	387.4450	-65.43	-60.07	-13.00	47.07	Vertical
4	2227.2500	-58.65	-50.47	-13.00	37.47	Vertical
5	5300.7434	-54.83	-53.76	-13.00	40.76	Vertical
6	8642.4214	-56.46	-51.90	-13.00	38.90	Vertical



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7.19. Test Band = WCDMA_II_TM1 ANT31

7.19.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.9273	-75.70	-67.68	-13.00	54.68	Horizontal
2	228.7629	-76.18	-71.33	-13.00	58.33	Horizontal
3	780.1385	-75.59	-63.80	-13.00	50.80	Horizontal
4	5324.5000	-46.14	-44.90	-13.00	31.90	Horizontal
5	11538.0000	-50.97	-41.17	-13.00	28.17	Horizontal
6	16435.500	-50.73	-36.30	-13.00	23.30	Horizontal



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7.20. Test Band = WCDMA_II_TM1 ANT31

7.20.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	51.4866	-77.22	-76.42	-13.00	63.42	Vertical
2	108.9619	-76.53	-67.93	-13.00	54.93	Vertical
3	443.1437	-75.92	-69.98	-13.00	56.98	Vertical
4	1114.5333	-75.65	-56.83	-13.00	43.83	Vertical
5	5254.5000	-47.07	-46.89	-13.00	33.89	Vertical
6	14937.000	-51.37	-37.98	-13.00	24.98	Vertical



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7.21. Test Band = WCDMA_II_TM1 ANT31

7.21.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.6777	-77.26	-68.21	-13.00	55.21	Horizontal
2	230.8970	-75.62	-70.62	-13.00	57.62	Horizontal
3	621.5841	-75.23	-65.48	-13.00	52.48	Horizontal
4	5318.5000	-48.81	-47.48	-13.00	34.48	Horizontal
5	9616.5000	-50.20	-43.60	-13.00	30.60	Horizontal
6	16650.500	-49.96	-35.87	-13.00	22.87	Horizontal



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7.22. Test Band = WCDMA_II_TM1 ANT31

7.22.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.2783	-77.90	-78.02	-13.00	65.02	Vertical
2	110.0775	-77.24	-68.33	-13.00	55.33	Vertical
3	626.5798	-75.70	-66.18	-13.00	53.18	Vertical
4	5228.5000	-46.32	-46.70	-13.00	33.70	Vertical
5	9278.5000	-51.11	-44.17	-13.00	31.17	Vertical
6	14539.000	-52.16	-37.93	-13.00	24.93	Vertical



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7.23. Test Band = WCDMA_II_TM1 ANT31

7.23.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.8417	-78.27	-69.16	-13.00	56.16	Horizontal
2	234.4862	-75.15	-70.40	-13.00	57.40	Horizontal
3	1001.3333	-76.50	-57.60	-13.00	44.60	Horizontal
4	5289.0000	-48.58	-47.21	-13.00	34.21	Horizontal
5	9590.5000	-50.64	-44.22	-13.00	31.22	Horizontal
6	16791.000	-51.38	-37.15	-13.00	24.15	Horizontal



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7.24. Test Band = WCDMA_II_TM1 ANT31

7.24.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.3525	-77.68	-76.90	-13.00	63.90	Vertical
2	111.1446	-76.75	-67.95	-13.00	54.95	Vertical
3	621.2446	-75.44	-65.86	-13.00	52.86	Vertical
4	5285.5000	-47.82	-47.03	-13.00	34.03	Vertical
5	9565.0000	-49.96	-43.46	-13.00	30.46	Vertical
6	14697.500	-50.78	-37.15	-13.00	24.15	Vertical



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7.25. Test Band = WCDMA_IV_TM1 ANT31

7.25.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.1581	-70.21	-61.18	-13.00	48.18	Horizontal
2	240.2738	-68.11	-63.74	-13.00	50.74	Horizontal
3	626.9884	-67.93	-58.20	-13.00	45.20	Horizontal
4	5247.0000	-48.04	-47.58	-13.00	34.58	Horizontal
5	10224.750	-50.43	-43.11	-13.00	30.11	Horizontal
6	16608.750	-49.47	-35.48	-13.00	22.48	Horizontal



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7.26. Test Band = WCDMA_IV_TM1 ANT31

7.26.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.7047	-68.75	-68.33	-13.00	55.33	Vertical
2	113.3092	-69.33	-60.74	-13.00	47.74	Vertical
3	582.9691	-67.83	-58.72	-13.00	45.72	Vertical
4	5196.0000	-47.64	-48.69	-13.00	35.69	Vertical
5	9041.2500	-50.25	-44.85	-13.00	31.85	Vertical
6	14685.750	-51.61	-37.97	-13.00	24.97	Vertical



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7.27. Test Band = WCDMA_IV_TM1 ANT31

7.27.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8242	-69.70	-60.64	-13.00	47.64	Horizontal
2	231.1789	-68.57	-63.59	-13.00	50.59	Horizontal
3	642.5103	-67.38	-57.78	-13.00	44.78	Horizontal
4	5312.2500	-47.14	-45.71	-13.00	32.71	Horizontal
5	9395.2500	-49.43	-42.90	-13.00	29.90	Horizontal
6	16376.250	-50.68	-35.76	-13.00	22.76	Horizontal



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7.28. Test Band = WCDMA_IV_TM1 ANT31

7.28.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.3708	-69.67	-69.55	-13.00	56.55	Vertical
2	109.3074	-69.30	-60.59	-13.00	47.59	Vertical
3	583.6967	-68.15	-59.02	-13.00	46.02	Vertical
4	5303.2500	-47.06	-46.02	-13.00	33.02	Vertical
5	9208.5000	-50.11	-44.64	-13.00	31.64	Vertical
6	14506.500	-51.16	-37.55	-13.00	24.55	Vertical



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7.29. Test Band = WCDMA_IV_TM1 ANT31

7.29.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.6116	-69.12	-60.12	-13.00	47.12	Horizontal
2	230.4513	-68.97	-63.94	-13.00	50.94	Horizontal
3	618.4998	-68.21	-58.43	-13.00	45.43	Horizontal
4	5193.7500	-46.35	-47.07	-13.00	34.07	Horizontal
5	10389.000	-50.06	-41.87	-13.00	28.87	Horizontal
6	16416.000	-51.55	-36.31	-13.00	23.31	Horizontal



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7.30. Test Band = WCDMA_IV_TM1 ANT31

7.30.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.2794	-69.68	-69.80	-13.00	56.80	Vertical
2	113.1879	-69.80	-61.20	-13.00	48.20	Vertical
3	585.2732	-67.54	-58.35	-13.00	45.35	Vertical
4	5304.0000	-48.72	-47.69	-13.00	34.69	Vertical
5	14293.500	-52.30	-38.49	-13.00	25.49	Vertical
6	17999.250	-50.77	-31.33	-13.00	18.33	Vertical



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7.31. Test Band = WCDMA_V_TM1 ANT41

7.31.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.8046	-95.85	-65.14	-13.00	52.14	Horizontal
2	229.9270	-96.13	-71.30	-13.00	58.30	Horizontal
3	1651.2000	-69.32	-50.45	-13.00	37.45	Horizontal
4	2480.2667	-80.79	-57.53	-13.00	44.53	Horizontal
5	5303.4667	-55.28	-53.72	-13.00	40.72	Horizontal
6	8780.1333	-57.15	-52.58	-13.00	39.58	Horizontal



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7.32. Test Band = WCDMA_V_TM1 ANT41

7.32.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.4010	-94.62	-72.20	-13.00	59.20	Vertical
2	113.4727	-96.02	-66.97	-13.00	53.97	Vertical
3	1651.3333	-79.20	-60.72	-13.00	47.72	Vertical
4	2479.8667	-80.68	-57.83	-13.00	44.83	Vertical
5	5301.6000	-55.64	-54.58	-13.00	41.58	Vertical
6	9189.8667	-57.28	-52.08	-13.00	39.08	Vertical



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7.33. Test Band = WCDMA_V_TM1 ANT41

7.33.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.2112	-97.27	-66.50	-13.00	53.50	Horizontal
2	94.0717	-93.92	-76.12	-13.00	63.12	Horizontal
3	243.3622	-95.71	-71.05	-13.00	58.05	Horizontal
4	1671.2000	-73.04	-54.08	-13.00	41.08	Horizontal
5	5306.2667	-55.24	-53.72	-13.00	40.72	Horizontal
6	9365.8000	-57.40	-50.78	-13.00	37.78	Horizontal



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7.34. Test Band = WCDMA_V_TM1 ANT41

7.34.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.0315	-93.75	-71.20	-13.00	58.20	Vertical
2	111.7266	-95.10	-65.86	-13.00	52.86	Vertical
3	1674.4000	-79.42	-60.83	-13.00	47.83	Vertical
4	2426.2667	-80.46	-57.18	-13.00	44.18	Vertical
5	5247.9333	-54.53	-54.48	-13.00	41.48	Vertical
6	9355.0667	-57.42	-50.62	-13.00	37.62	Vertical



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7.35. Test Band = WCDMA_V_TM1 ANT41

7.35.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.0657	-96.63	-65.87	-13.00	52.87	Horizontal
2	93.5382	-93.16	-75.33	-13.00	62.33	Horizontal
3	227.9869	-95.43	-70.92	-13.00	57.92	Horizontal
4	1691.6000	-72.94	-53.89	-13.00	40.89	Horizontal
5	5302.0667	-55.52	-53.94	-13.00	40.94	Horizontal
6	9293.0000	-57.57	-50.81	-13.00	37.81	Horizontal



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7.36. Test Band = WCDMA_V_TM1 ANT41

7.36.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.5465	-93.32	-70.87	-13.00	57.87	Vertical
2	112.1146	-95.99	-66.80	-13.00	53.80	Vertical
3	337.9904	-96.13	-72.54	-13.00	59.54	Vertical
4	1691.7333	-77.65	-58.97	-13.00	45.97	Vertical
5	5315.6000	-55.14	-54.27	-13.00	41.27	Vertical
6	9260.8000	-57.70	-50.72	-13.00	37.72	Vertical

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	2.45	0.001323	±2.5	PASS
Band2	9262	VN	NT	1.89	0.001020	±2.5	PASS
Band2	9262	VH	NT	2.96	0.001598	±2.5	PASS
Band2	9400	VL	NT	2.92	0.001553	±2.5	PASS
Band2	9400	VN	NT	2.37	0.001261	±2.5	PASS
Band2	9400	VH	NT	3.11	0.001654	±2.5	PASS
Band2	9538	VL	NT	4.14	0.002170	±2.5	PASS
Band2	9538	VN	NT	5.12	0.002684	±2.5	PASS
Band2	9538	VH	NT	3.96	0.002076	±2.5	PASS
Band4	1312	VL	NT	3.09	0.001804	±2.5	PASS
Band4	1312	VN	NT	3.74	0.002184	±2.5	PASS
Band4	1312	VH	NT	3.09	0.001804	±2.5	PASS
Band4	1413	VL	NT	-0.29	-0.000167	±2.5	PASS
Band4	1413	VN	NT	-1.19	-0.000687	±2.5	PASS
Band4	1413	VH	NT	0.05	0.000029	±2.5	PASS
Band4	1513	VL	NT	-1.75	-0.000999	±2.5	PASS
Band4	1513	VN	NT	-1.19	-0.000679	±2.5	PASS
Band4	1513	VH	NT	-2.32	-0.001324	±2.5	PASS
Band5	4132	VL	NT	-0.45	-0.000545	±2.5	PASS
Band5	4132	VN	NT	-0.24	-0.000290	±2.5	PASS
Band5	4132	VH	NT	-0.57	-0.000690	±2.5	PASS
Band5	4182	VL	NT	-1.04	-0.001243	±2.5	PASS
Band5	4182	VN	NT	-1.14	-0.001363	±2.5	PASS
Band5	4182	VH	NT	-0.85	-0.001016	±2.5	PASS
Band5	4233	VL	NT	-0.20	-0.000236	±2.5	PASS
Band5	4233	VN	NT	-0.12	-0.000142	±2.5	PASS
Band5	4233	VH	NT	-0.08	-0.000094	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature							
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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	2.79	0.001506	±2.5	PASS
Band2	9262	NV	-20	3.09	0.001668	±2.5	PASS
Band2	9262	NV	-10	3.03	0.001636	±2.5	PASS
Band2	9262	NV	0	3.10	0.001674	±2.5	PASS
Band2	9262	NV	10	3.09	0.001668	±2.5	PASS
Band2	9262	NV	20	3.70	0.001997	±2.5	PASS
Band2	9262	NV	30	3.20	0.001727	±2.5	PASS
Band2	9262	NV	40	3.23	0.001744	±2.5	PASS
Band2	9262	NV	50	3.38	0.001825	±2.5	PASS
Band2	9400	NV	-30	3.69	0.001963	±2.5	PASS
Band2	9400	NV	-20	3.62	0.001926	±2.5	PASS
Band2	9400	NV	-10	3.66	0.001947	±2.5	PASS
Band2	9400	NV	0	3.48	0.001851	±2.5	PASS
Band2	9400	NV	10	3.68	0.001957	±2.5	PASS
Band2	9400	NV	20	3.50	0.001862	±2.5	PASS
Band2	9400	NV	30	3.61	0.001920	±2.5	PASS
Band2	9400	NV	40	3.45	0.001835	±2.5	PASS
Band2	9400	NV	50	3.49	0.001856	±2.5	PASS
Band2	9538	NV	-30	4.26	0.002233	±2.5	PASS
Band2	9538	NV	-20	3.93	0.002060	±2.5	PASS
Band2	9538	NV	-10	3.88	0.002034	±2.5	PASS
Band2	9538	NV	0	3.76	0.001971	±2.5	PASS
Band2	9538	NV	10	3.70	0.001940	±2.5	PASS
Band2	9538	NV	20	3.55	0.001861	±2.5	PASS
Band2	9538	NV	30	3.85	0.002018	±2.5	PASS
Band2	9538	NV	40	3.56	0.001866	±2.5	PASS
Band2	9538	NV	50	3.35	0.001756	±2.5	PASS
Band4	1312	NV	-30	2.87	0.001676	±2.5	PASS
Band4	1312	NV	-20	2.53	0.001477	±2.5	PASS
Band4	1312	NV	-10	2.98	0.001740	±2.5	PASS
Band4	1312	NV	0	2.88	0.001682	±2.5	PASS
Band4	1312	NV	10	2.73	0.001594	±2.5	PASS
Band4	1312	NV	20	3.02	0.001764	±2.5	PASS
Band4	1312	NV	30	3.27	0.001910	±2.5	PASS
Band4	1312	NV	40	2.80	0.001635	±2.5	PASS



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Band4	1312	NV	50	2.93	0.001711	±2.5	PASS
Band4	1413	NV	-30	0.39	0.000225	±2.5	PASS
Band4	1413	NV	-20	0.16	0.000092	±2.5	PASS
Band4	1413	NV	-10	0.22	0.000127	±2.5	PASS
Band4	1413	NV	0	1.01	0.000583	±2.5	PASS
Band4	1413	NV	10	0.39	0.000225	±2.5	PASS
Band4	1413	NV	20	0.26	0.000150	±2.5	PASS
Band4	1413	NV	30	1.02	0.000589	±2.5	PASS
Band4	1413	NV	40	0.71	0.000410	±2.5	PASS
Band4	1413	NV	50	0.74	0.000427	±2.5	PASS
Band4	1513	NV	-30	-2.20	-0.001255	±2.5	PASS
Band4	1513	NV	-20	-2.04	-0.001164	±2.5	PASS
Band4	1513	NV	-10	-2.10	-0.001198	±2.5	PASS
Band4	1513	NV	0	-2.11	-0.001204	±2.5	PASS
Band4	1513	NV	10	-2.32	-0.001324	±2.5	PASS
Band4	1513	NV	20	-2.29	-0.001307	±2.5	PASS
Band4	1513	NV	30	-2.31	-0.001318	±2.5	PASS
Band4	1513	NV	40	-1.89	-0.001078	±2.5	PASS
Band4	1513	NV	50	-2.23	-0.001272	±2.5	PASS
Band5	4132	NV	-30	-0.67	-0.000811	±2.5	PASS
Band5	4132	NV	-20	-0.34	-0.000411	±2.5	PASS
Band5	4132	NV	-10	-0.09	-0.000109	±2.5	PASS
Band5	4132	NV	0	0.06	0.000073	±2.5	PASS
Band5	4132	NV	10	0.00	0.000000	±2.5	PASS
Band5	4132	NV	20	-0.73	-0.000883	±2.5	PASS
Band5	4132	NV	30	-0.18	-0.000218	±2.5	PASS
Band5	4132	NV	40	0.37	0.000448	±2.5	PASS
Band5	4132	NV	50	0.03	0.000036	±2.5	PASS
Band5	4182	NV	-30	-0.76	-0.000909	±2.5	PASS
Band5	4182	NV	-20	-0.84	-0.001004	±2.5	PASS
Band5	4182	NV	-10	-0.46	-0.000550	±2.5	PASS
Band5	4182	NV	0	-0.47	-0.000562	±2.5	PASS
Band5	4182	NV	10	-0.71	-0.000849	±2.5	PASS
Band5	4182	NV	20	-0.78	-0.000933	±2.5	PASS
Band5	4182	NV	30	-0.42	-0.000502	±2.5	PASS
Band5	4182	NV	40	-0.44	-0.000526	±2.5	PASS
Band5	4182	NV	50	-0.60	-0.000717	±2.5	PASS



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Band5	4233	NV	-30	0.10	0.000118	±2.5	PASS
Band5	4233	NV	-20	0.01	0.000012	±2.5	PASS
Band5	4233	NV	-10	-0.19	-0.000224	±2.5	PASS
Band5	4233	NV	0	-0.02	-0.000024	±2.5	PASS
Band5	4233	NV	10	-0.11	-0.000130	±2.5	PASS
Band5	4233	NV	20	-0.05	-0.000059	±2.5	PASS
Band5	4233	NV	30	-0.01	-0.000012	±2.5	PASS
Band5	4233	NV	40	-0.16	-0.000189	±2.5	PASS
Band5	4233	NV	50	-0.10	-0.000118	±2.5	PASS

The End

