



Report No.: ZEWM2303000343RG02

Rev.: 01

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Appendix B.2

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BandII	9262	22.93	22.03	33.01	PASS
BandII	9400	22.97	22.07	33.01	PASS
BandII	9538	23.05	22.15	33.01	PASS

Ant13:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BandIV	1312	23.54	23.33	30.00	PASS
BandIV	1413	23.56	23.35	30.00	PASS
BandIV	1513	23.53	23.32	30.00	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BandV	4132	23.68	17.23	38.45	PASS
BandV	4182	23.87	17.42	38.45	PASS
BandV	4233	23.66	17.21	38.45	PASS



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Peak-to-Average Ratio

Test Result

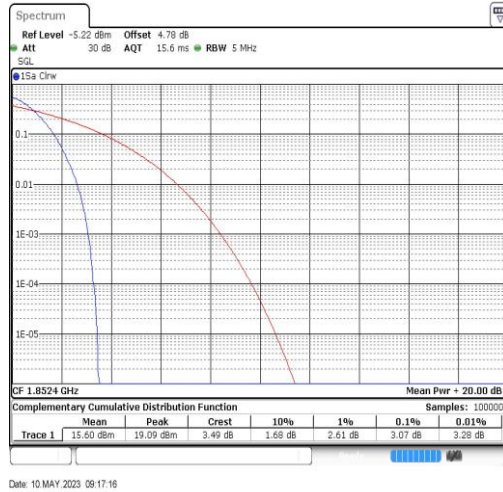
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
BandII	9262	3.07	13	PASS
BandII	9400	8.52	13	PASS
BandII	9538	2.9	13	PASS
BandIV	1312	2.93	13	PASS
BandIV	1413	2.96	13	PASS
BandIV	1513	2.96	13	PASS
BandV	4132	3.07	13	PASS
BandV	4182	2.7	13	PASS
BandV	4233	2.84	13	PASS



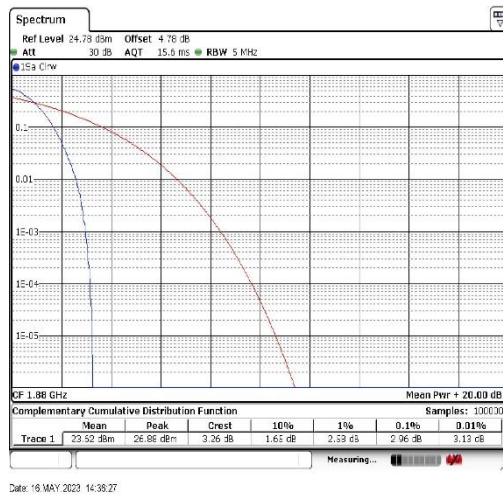
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Test Graphs



BandII-9262

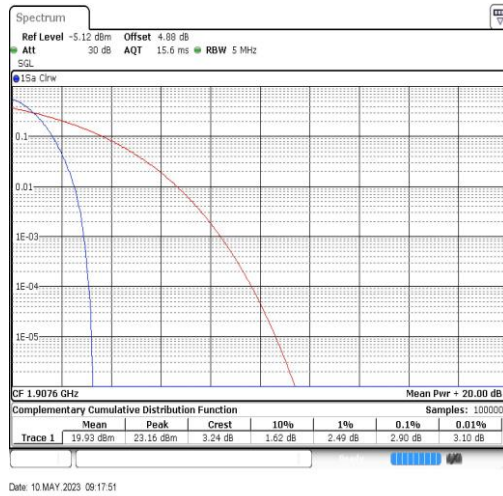


BandII-9400

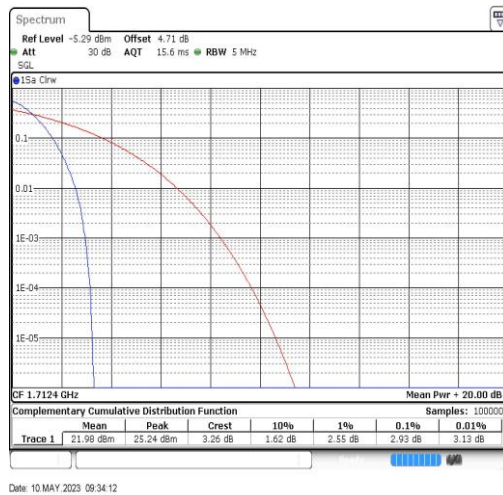


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BandII-9538



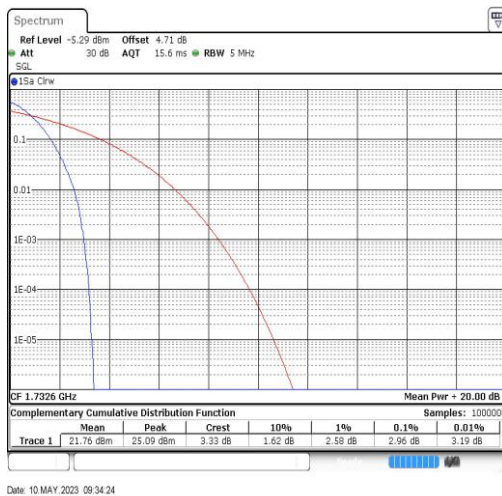
BandIV-1312



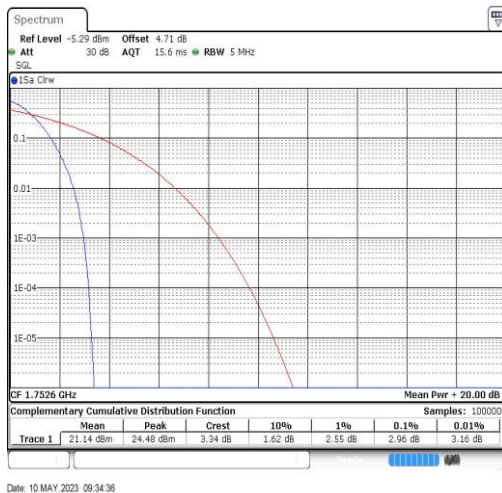
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BandIV-1413

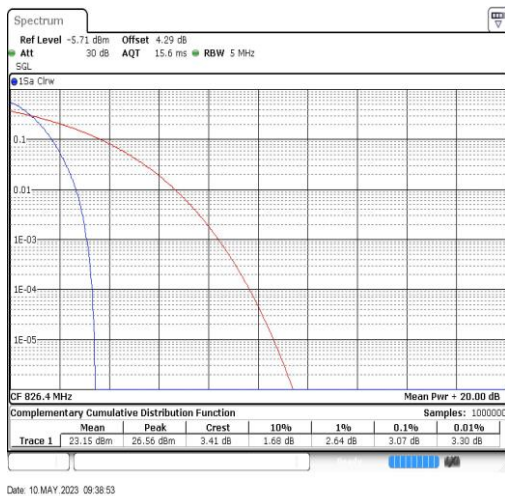


BandIV-1513

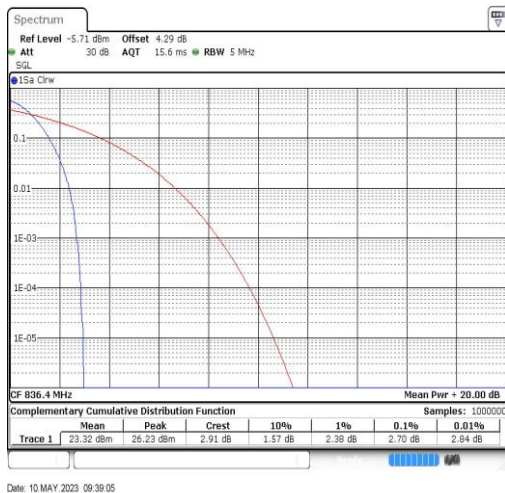


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BandV-4132



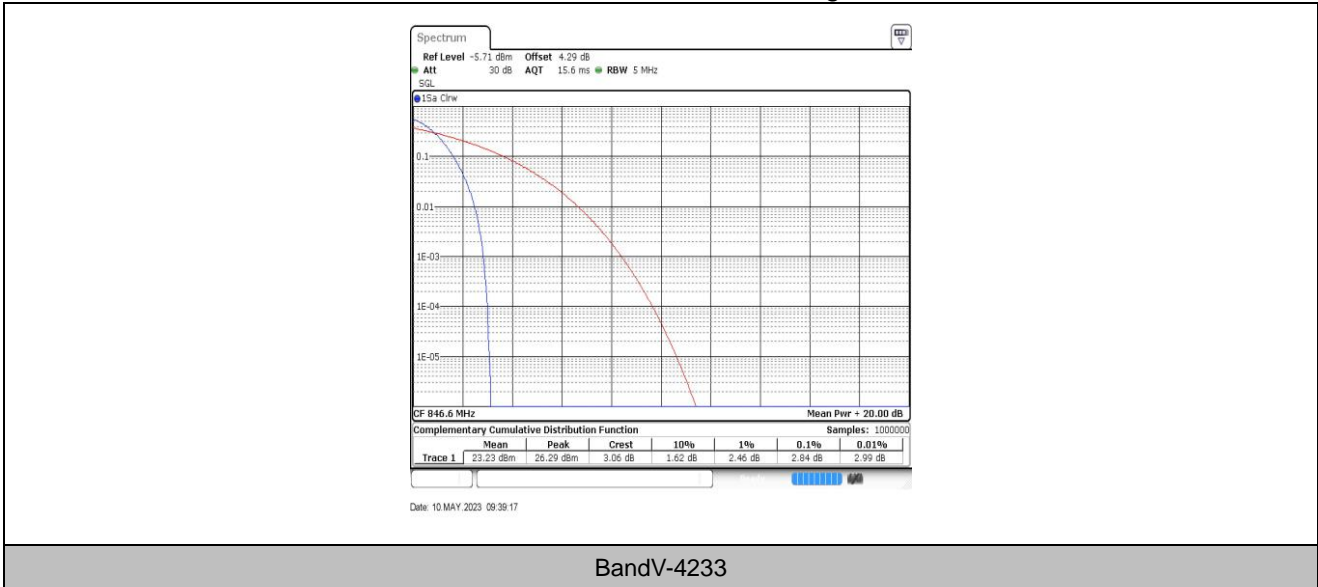
BandV-4182



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BandV-4233



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Modulation Characteristics

Test Result

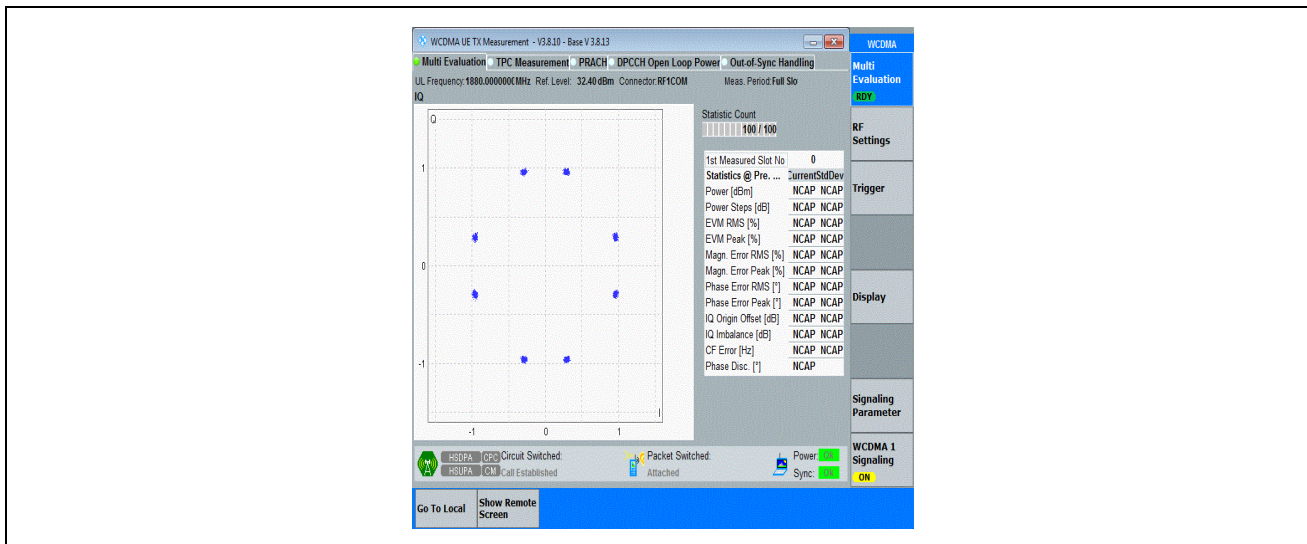
Band	Channel	Result	Verdict
BandII	9400	PASS	PASS
BandIV	1513	PASS	PASS
BandV	4182	PASS	PASS



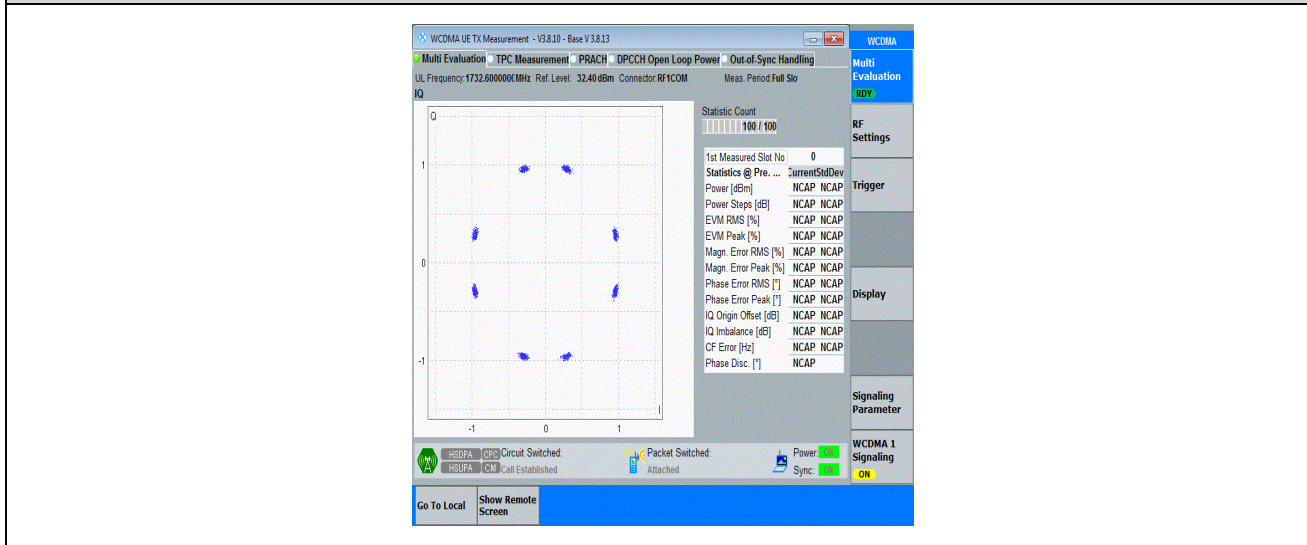
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Test Graphs



BandII-9400



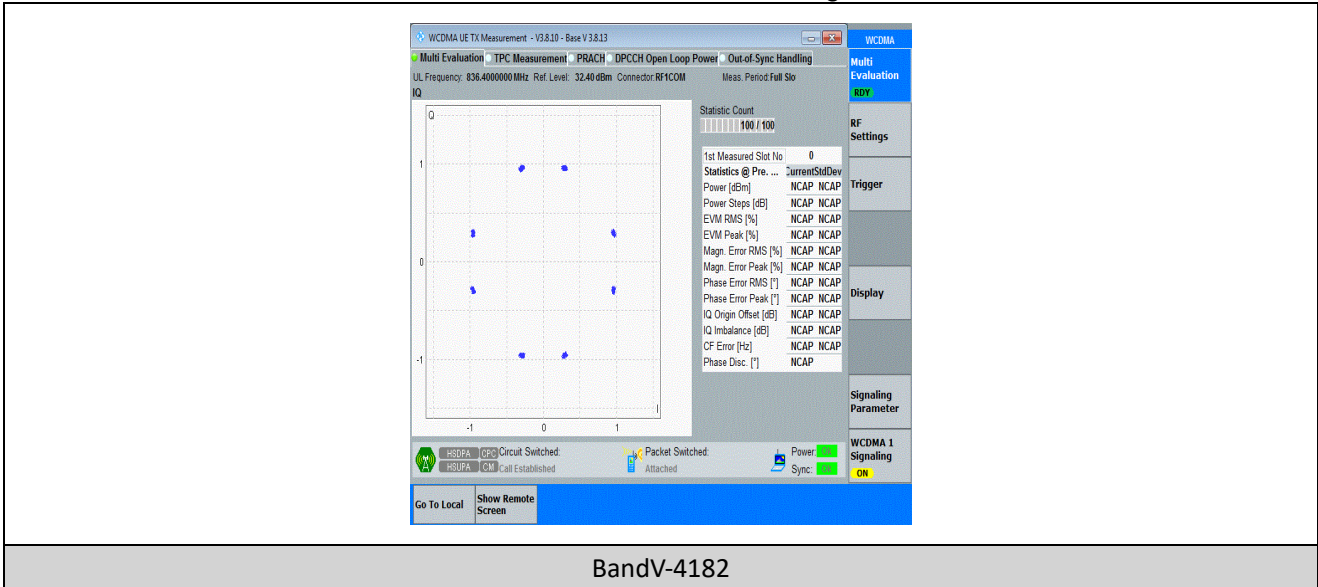
BandIV-1513



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BandV-4182



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
BandII	9262	4.156	4.76	---	PASS
BandII	9400	4.156	4.76	---	PASS
BandII	9538	4.166	4.74	---	PASS
BandIV	1312	4.136	4.72	---	PASS
BandIV	1413	4.136	4.72	---	PASS
BandIV	1513	4.136	4.72	---	PASS
BandV	4132	4.126	4.71	---	PASS
BandV	4182	4.136	4.75	---	PASS
BandV	4233	4.126	4.74	---	PASS



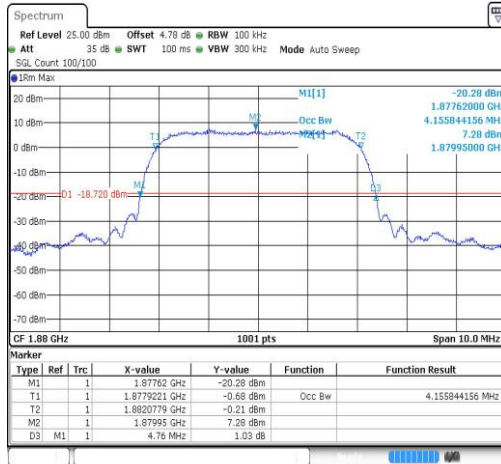
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Test Graphs



BandII-9262

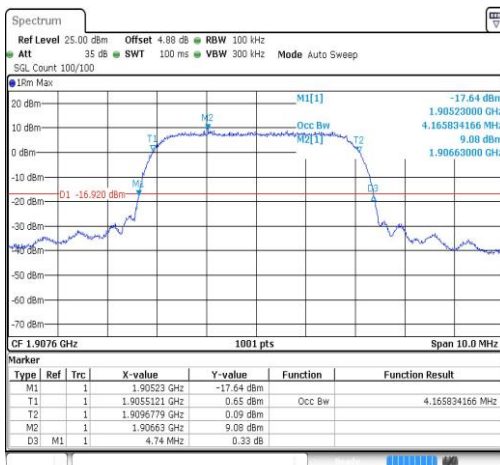


BandII-9400



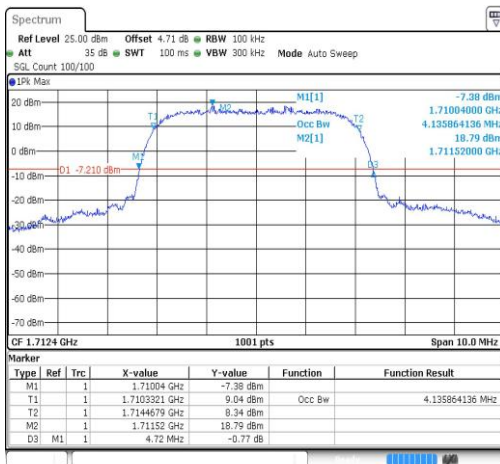
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Date: 10 MAY 2023 09:20:59

BandII-9538



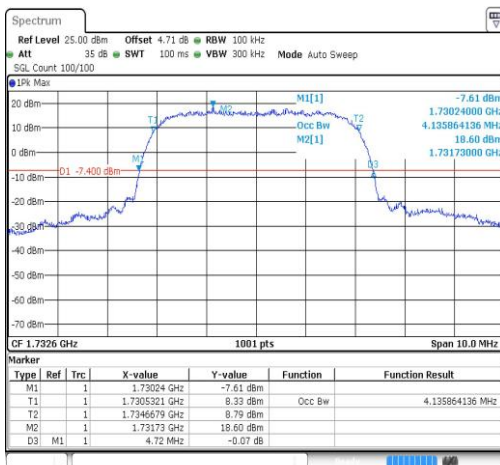
Date: 10 MAY 2023 09:34:55

BandIV-1312



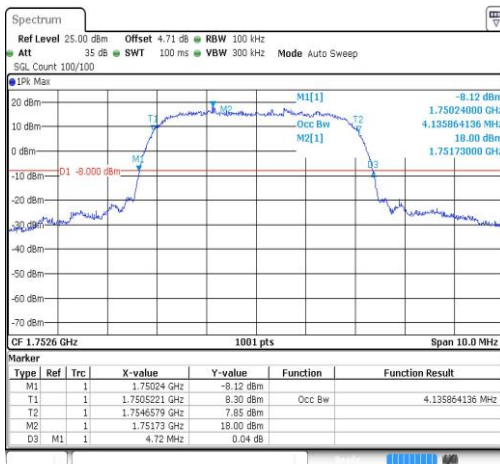
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Date: 10 MAY 2023 09:35:15

BandIV-1413



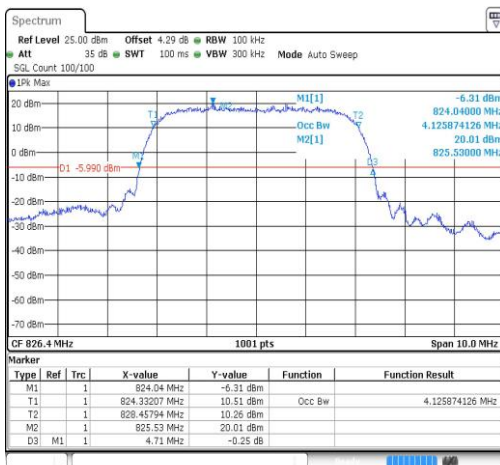
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BandIV-1513

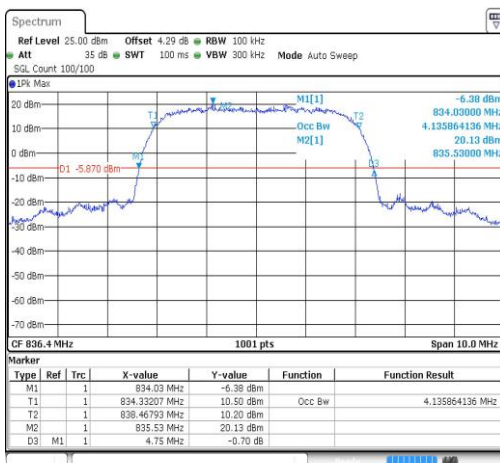


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BandV-4132



BandV-4182



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BandV-4233



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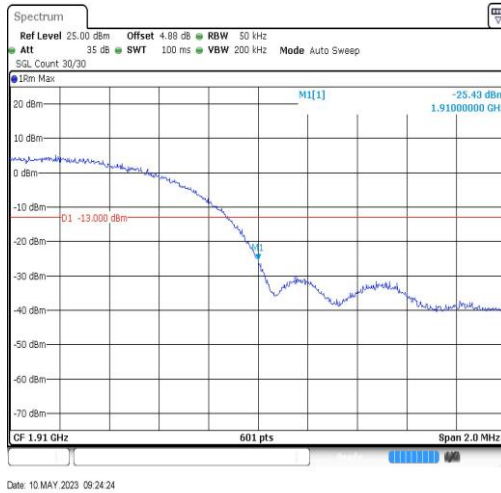
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Band Edge

Test Graphs



BandII-9262-1850.00



BandII-9538-1910.00

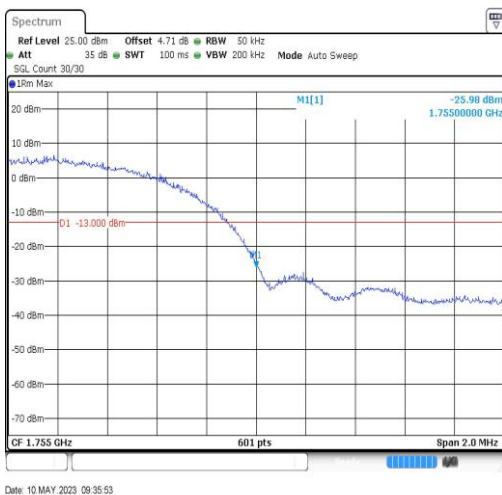


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BandIV-1312-1709.99

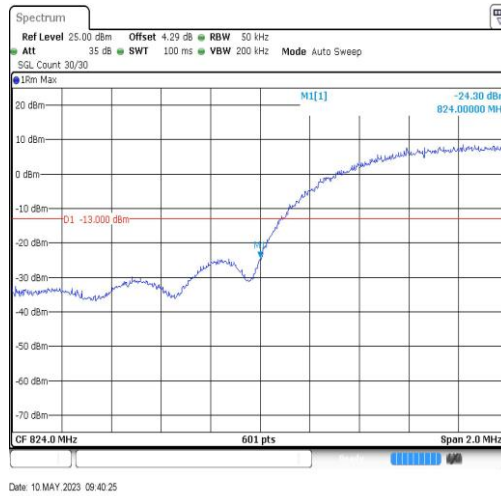


BandIV-1513-1755.00

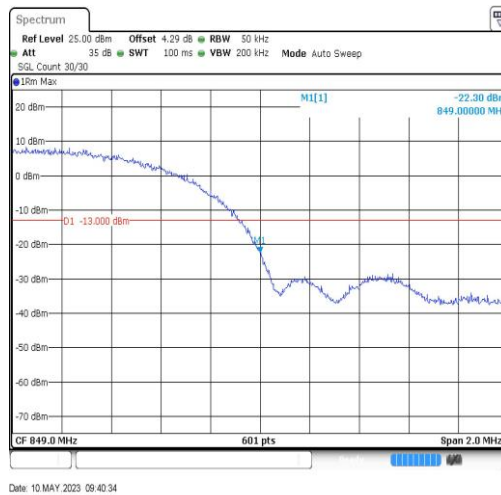


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BandV-4132-824.00



BandV-4233-849.00

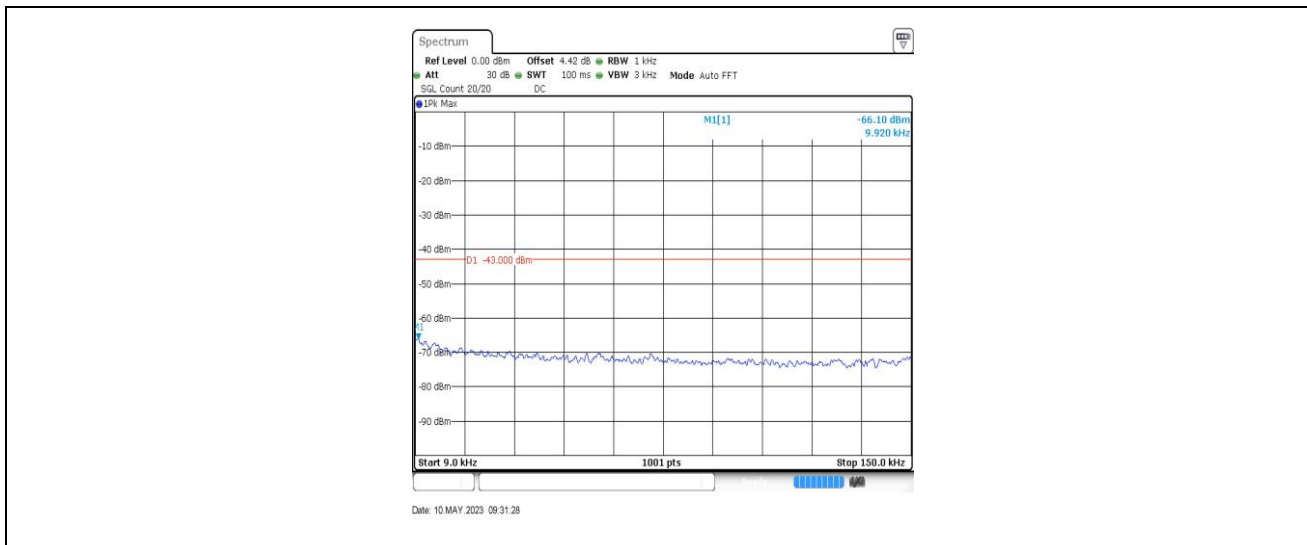


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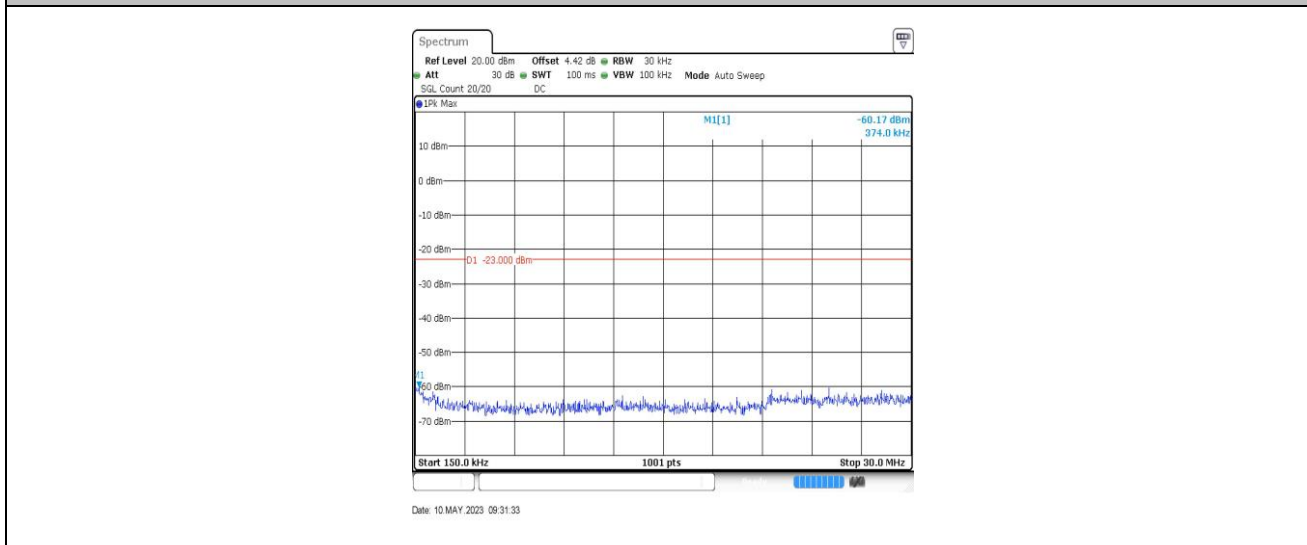
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Conducted Spurious Emission

Test Graphs



BandII-9262-0.009~0.15MHz-0.01

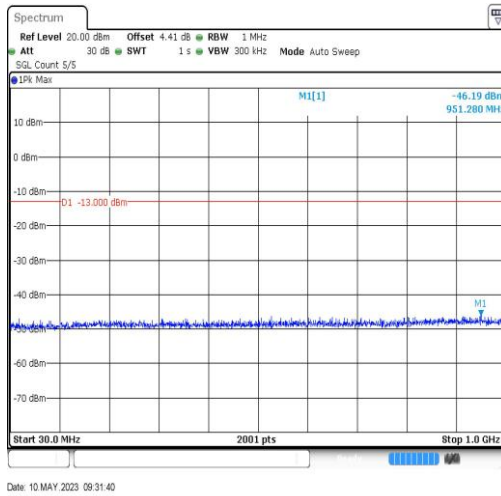


BandII-9262-0.15~30MHz-0.37



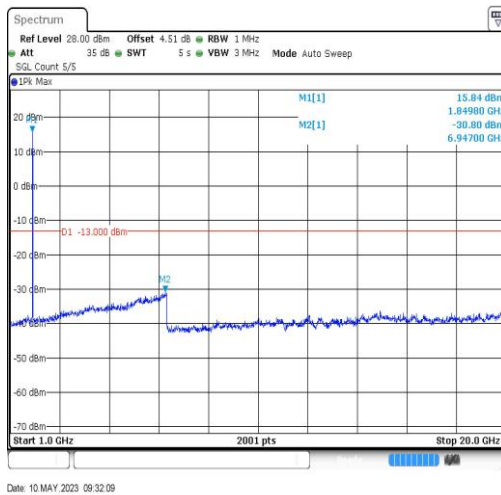
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Date: 10 MAY 2023 09:31:40

BandII-9262-30~1000MHz-951.28



Date: 10 MAY 2023 09:32:09

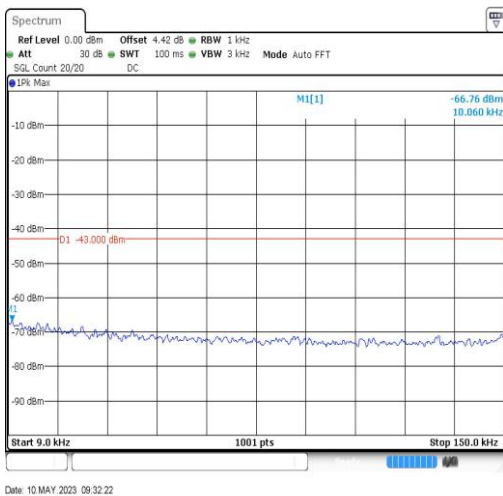
BandII-9262-1000~2000MHz-6947



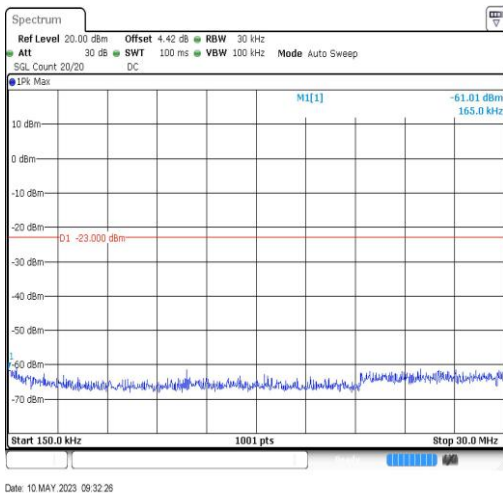
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BandII-9400-0.009~0.15MHz-0.01



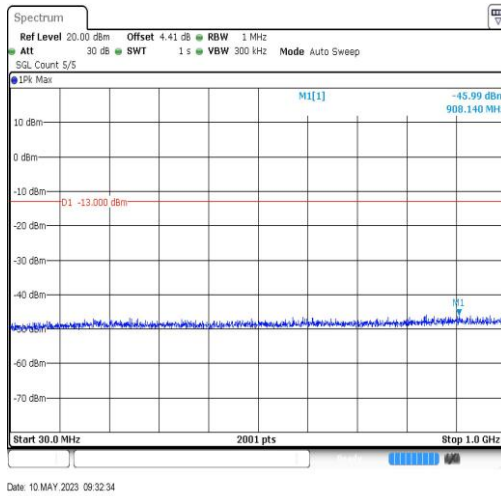
BandII-9400-0.15~30MHz-0.17



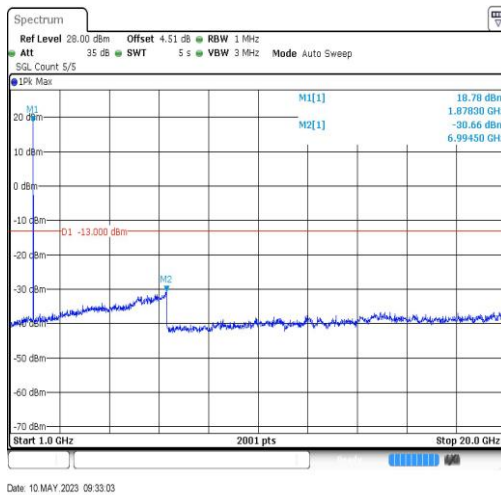
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BandII-9400-30~1000MHz-908.14



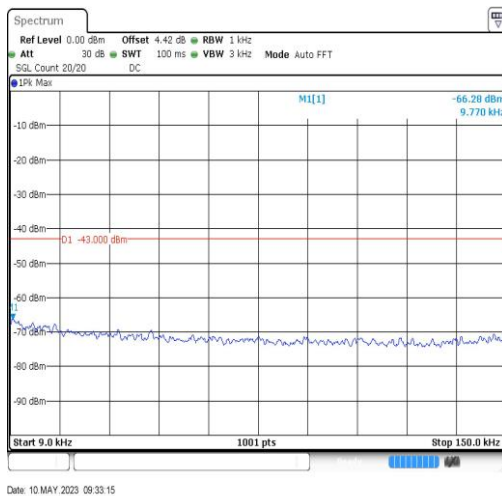
BandII-9400-1000~20000MHz-6994.5



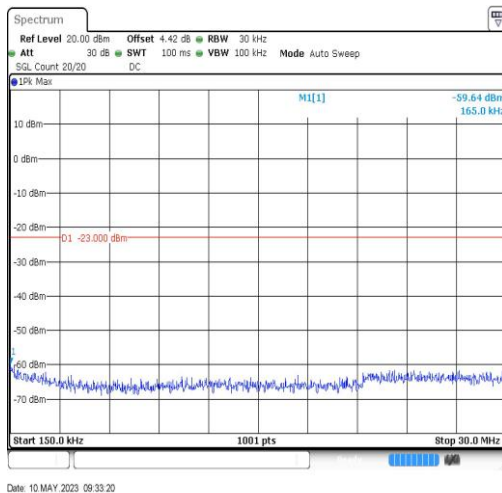
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BandII-9538-0.009~0.15MHz-0.01

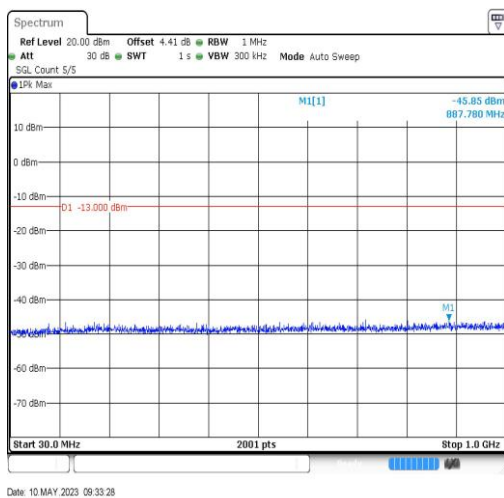


BandII-9538-0.15~30MHz-0.17

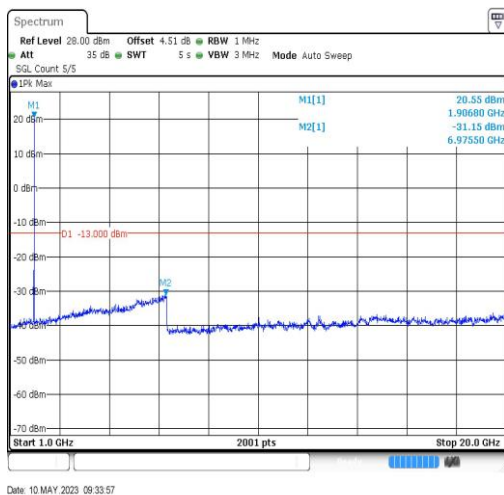


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BandII-9538-30~1000MHz-887.78

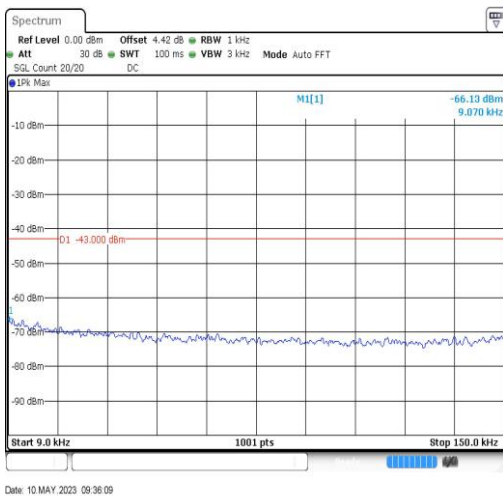


BandII-9538-1000~20000MHz-6975.5



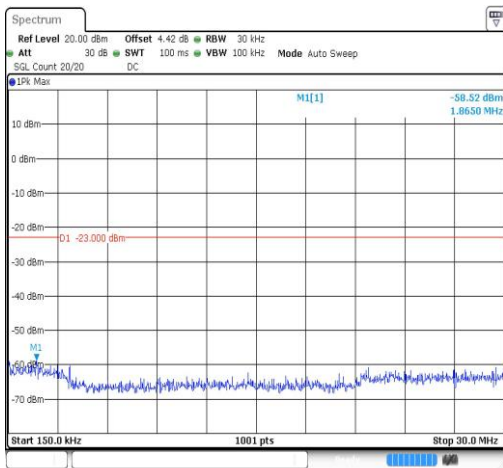
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Date: 10 MAY 2023 09:36:09

BandIV-1312-0.009~0.15MHz-0.01



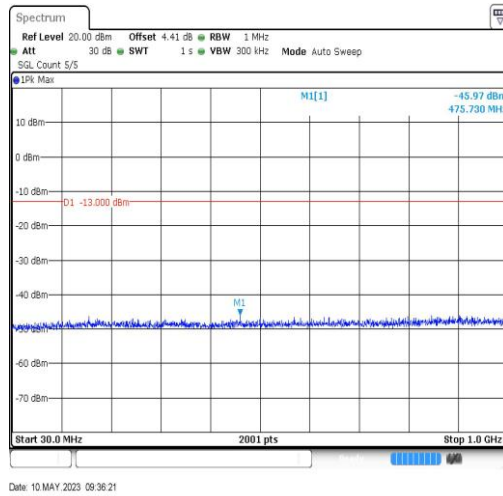
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BandIV-1312-0.15~30MHz-1.87



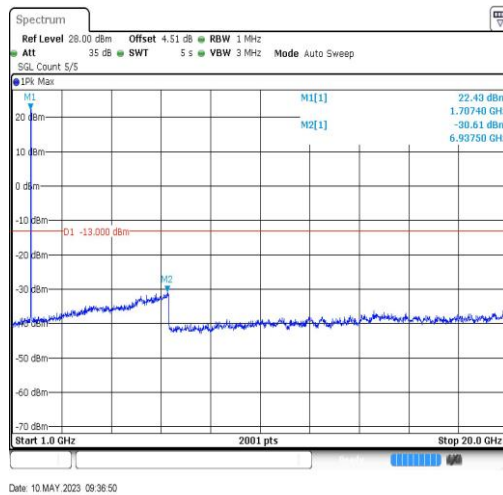
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Date: 10 MAY 2023 09:38:21

BandIV-1312-30~1000MHz-475.73



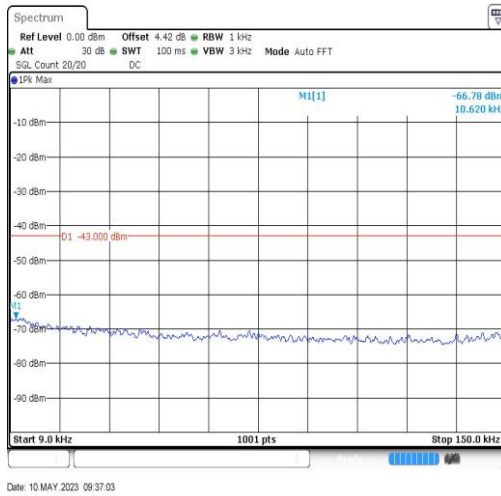
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BandIV-1312-1000~20000MHz-6937.5

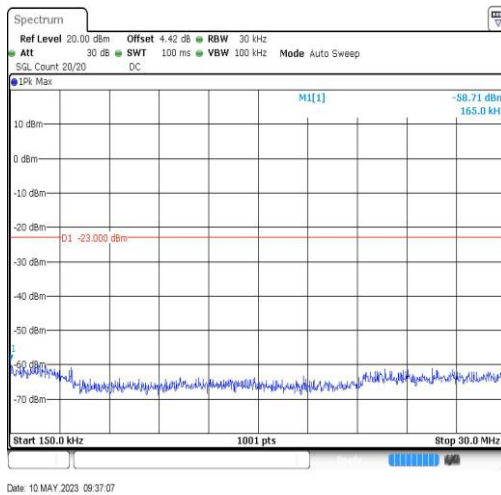


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BandIV-1413-0.009~0.15MHz-0.01

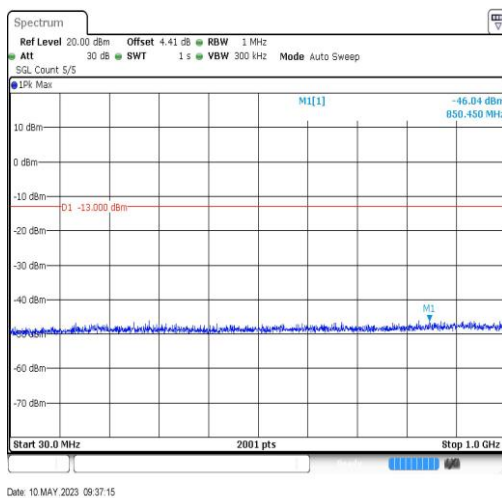


BandIV-1413-0.15~30MHz-0.17

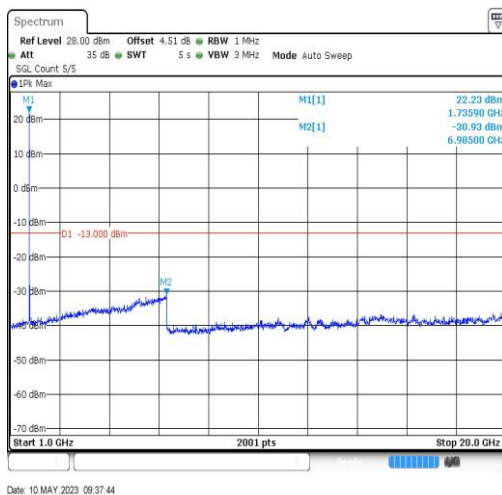


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BandIV-1413-30~1000MHz-850.45



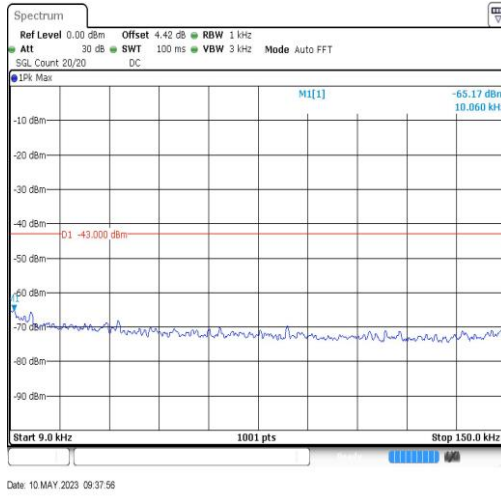
BandIV-1413-1000~20000MHz-6985



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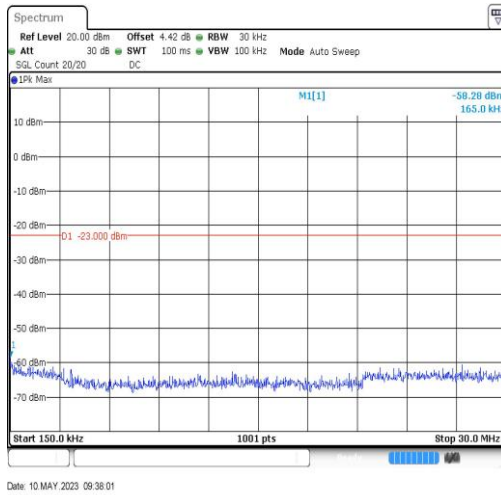
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Date: 10 MAY 2023 09:37:56

BandIV-1513-0.009~0.15MHz-0.01



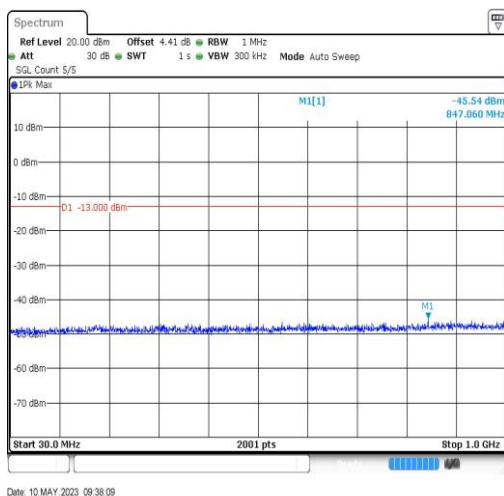
Date: 10 MAY 2023 09:38:01

BandIV-1513-0.15~30MHz-0.17

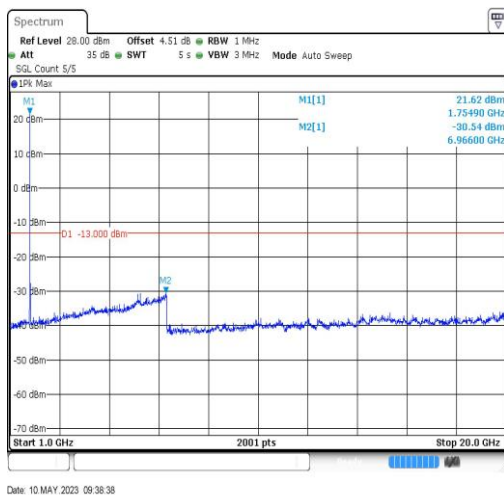


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BandIV-1513-30~1000MHz-847.06



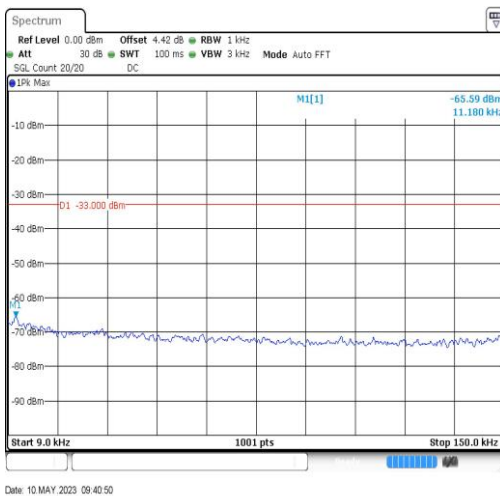
BandIV-1513-1000~20000MHz-6966



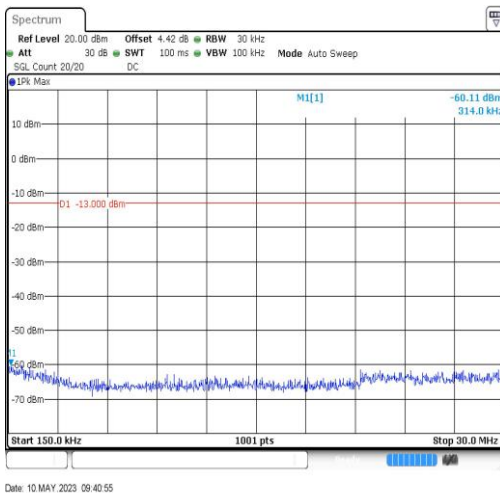
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BandV-4132-0.009~0.15MHz-0.01

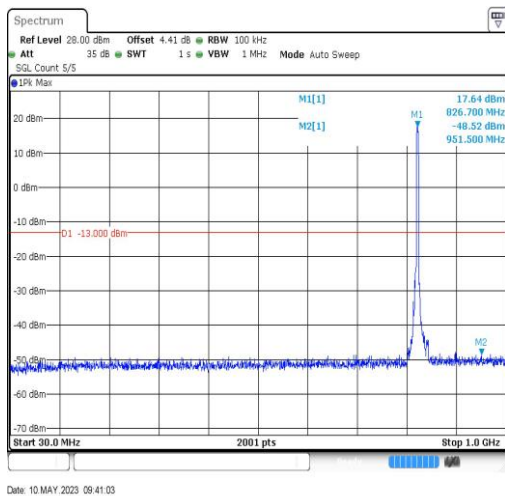


BandV-4132-0.15~30MHz-0.31

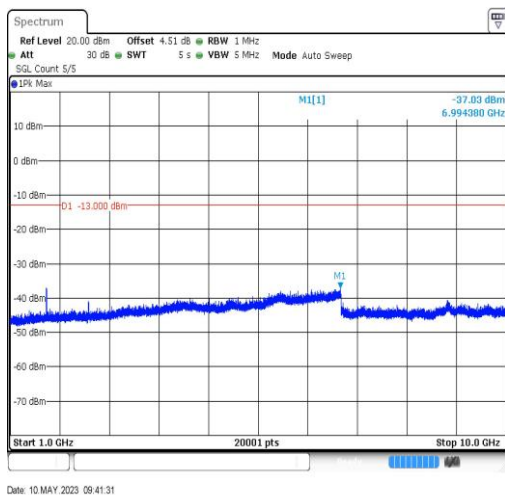


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BandV-4132-30~1000MHz-951.5

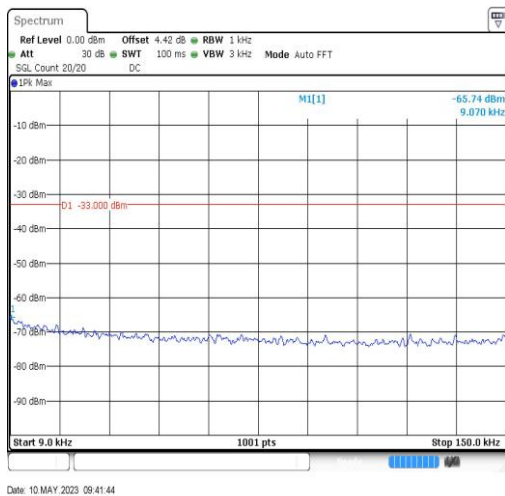


BandV-4132-1000~10000MHz-6994.38

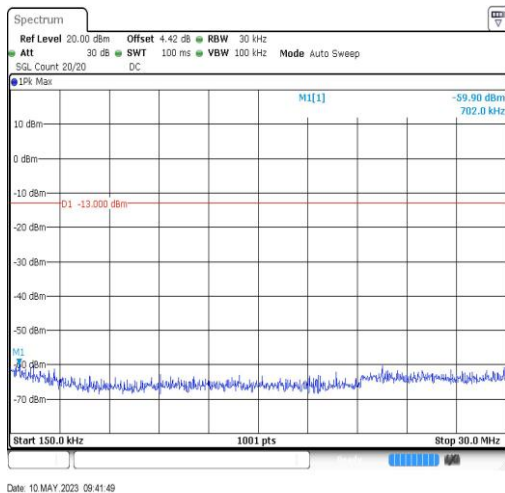


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BandV-4182-0.009~0.15MHz-0.01



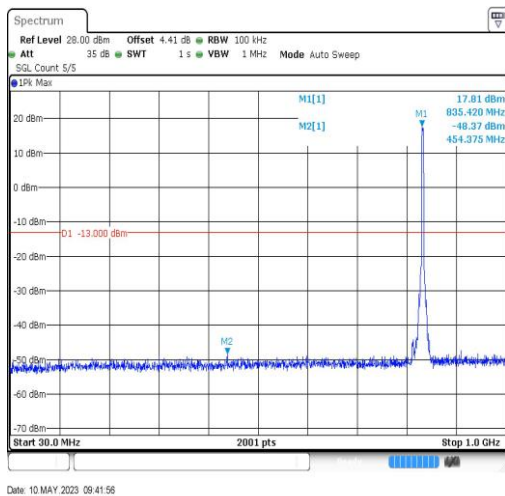
BandV-4182-0.15~30MHz-0.7



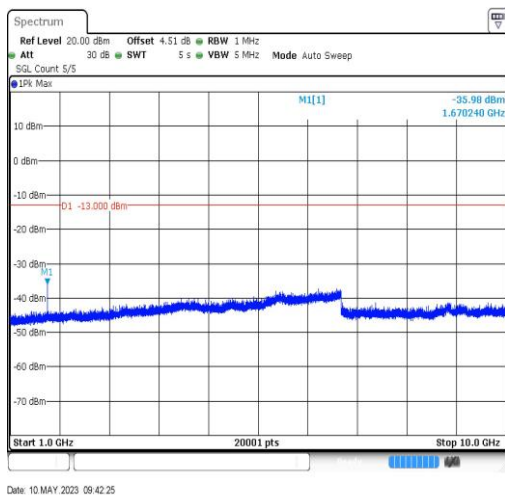
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BandV-4182-30~1000MHz-454.38

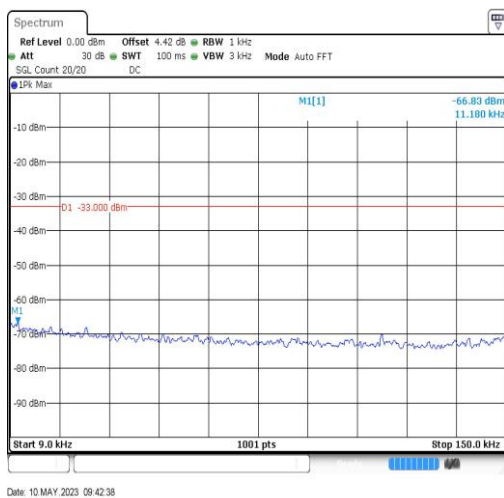


BandV-4182-1000~10000MHz-1670.24

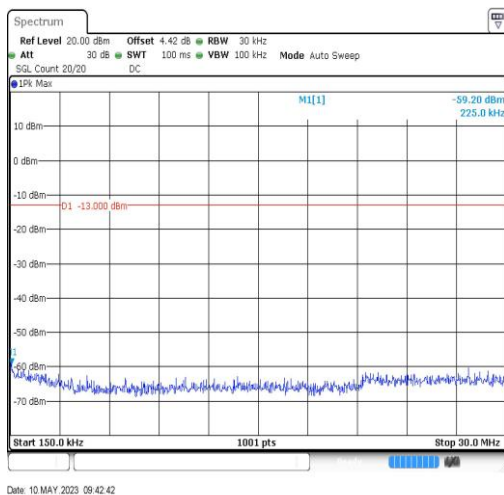


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BandV-4233-0.009~0.15MHz-0.01



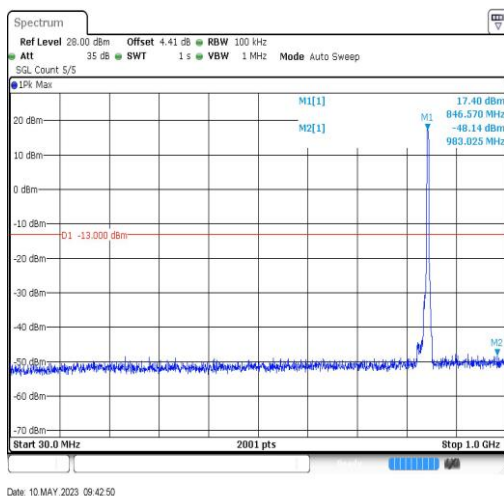
BandV-4233-0.15~30MHz-0.23



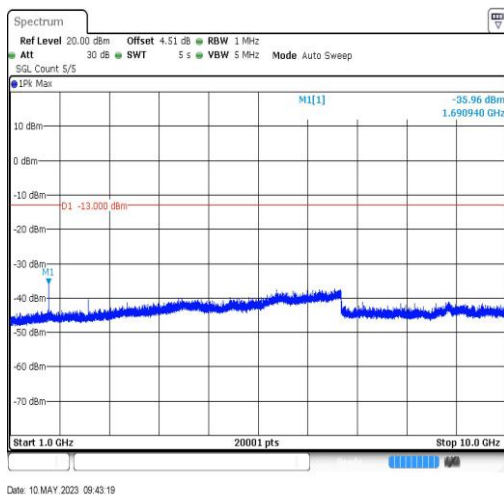
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BandV-4233-30~1000MHz-983.03



BandV-4233-1000~10000MHz-1690.94



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Field Strength of Spurious Radiation

Test Band = WCDMA_II ANT 13_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3703.5352	52.92	-44.52	29.32	-57.54	-13.00	44.54	346	62	Horizontal
2	5883.8942	51.82	-41.16	32.74	-51.86	-13.00	38.86	162	182	Horizontal
3	7847.4924	50.69	-37.70	36.79	-45.48	-13.00	32.48	192	122	Horizontal
4	9469.8235	51.94	-35.82	37.62	-41.52	-13.00	28.52	166	302	Horizontal
5	11067.4034	51.13	-37.39	40.17	-41.35	-13.00	28.35	164	246	Horizontal
6	15221.1111	54.45	-35.48	39.74	-36.55	-13.00	23.55	246	206	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3954.0477	51.14	-44.18	29.89	-58.41	-13.00	45.41	344	165	Vertical
2	5073.1037	52.12	-42.57	31.55	-54.16	-13.00	41.16	169	353	Vertical
3	7826.4913	50.95	-37.79	36.71	-45.39	-13.00	32.39	284	242	Vertical
4	9475.8238	51.97	-35.86	37.65	-41.50	-13.00	28.50	166	94	Vertical
5	10982.6491	51.07	-37.06	40.12	-41.13	-13.00	28.13	197	38	Vertical
6	16607.9304	55.10	-35.81	39.49	-36.48	-13.00	23.48	166	213	Vertical



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Test Band = WCDMA_II ANT 13 _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3762.0381	52.98	-44.77	29.65	-57.40	-13.00	44.40	198	70	Horizontal
2	5669.3835	52.27	-41.23	32.50	-51.72	-13.00	38.72	325	342	Horizontal
3	7854.2427	50.50	-37.67	36.77	-45.66	-13.00	32.66	168	186	Horizontal
4	9469.0735	52.28	-35.82	37.61	-41.19	-13.00	28.19	116	34	Horizontal
5	11029.1515	50.95	-37.16	40.13	-41.34	-13.00	28.34	244	246	Horizontal
6	16598.1799	54.80	-35.35	39.50	-36.31	-13.00	23.31	394	190	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3911.2956	51.25	-44.20	29.75	-58.46	-13.00	45.46	348	247	Vertical
2	6093.1547	51.32	-40.59	33.41	-51.12	-13.00	38.12	326	243	Vertical
3	7737.2369	50.72	-37.69	36.50	-45.73	-13.00	32.73	261	50	Vertical
4	9458.5729	51.95	-35.75	37.55	-41.51	-13.00	28.51	394	54	Vertical
5	11027.6514	51.21	-37.15	40.13	-41.07	-13.00	28.07	222	179	Vertical
6	16559.178	55.04	-35.45	39.42	-36.25	-13.00	23.25	264	255	Vertical



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Test Band = WCDMA_II ANT 13 _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3816.7908	56.49	-44.81	29.77	-53.81	-13.00	40.81	115	74	Horizontal
2	6099.155	51.35	-40.55	33.40	-51.06	-13.00	38.06	149	114	Horizontal
3	7837.7419	50.84	-37.74	36.75	-45.41	-13.00	32.41	168	102	Horizontal
4	9457.8229	52.15	-35.74	37.55	-41.30	-13.00	28.30	326	210	Horizontal
5	10975.8988	50.93	-37.09	40.12	-41.30	-13.00	28.30	336	360	Horizontal
6	15196.3598	54.73	-35.43	39.72	-36.24	-13.00	23.24	264	162	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3972.0486	51.33	-44.18	29.86	-58.25	-13.00	45.25	159	150	Vertical
2	5698.6349	51.83	-41.14	32.50	-52.07	-13.00	39.07	284	94	Vertical
3	7107.9554	50.71	-39.03	35.98	-47.60	-13.00	34.60	322	74	Vertical
4	9484.8242	51.82	-35.91	37.71	-41.64	-13.00	28.64	264	74	Vertical
5	11031.4016	51.04	-37.17	40.13	-41.26	-13.00	28.26	166	102	Vertical
6	15194.8597	54.52	-35.49	39.73	-36.50	-13.00	23.50	269	360	Vertical



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Test Band = WCDMA_IV ANT 13 _TM1
Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3426.7713	52.24	-45.32	28.76	-59.58	-13.00	46.58	306	202	Horizontal
2	5865.1433	51.97	-41.22	32.66	-51.85	-13.00	38.85	322	58	Horizontal
3	7824.2412	50.59	-37.80	36.70	-45.77	-13.00	32.77	106	198	Horizontal
4	9473.5737	52.31	-35.84	37.64	-41.15	-13.00	28.15	197	254	Horizontal
5	11003.6502	50.89	-37.00	40.10	-41.27	-13.00	28.27	167	142	Horizontal
6	15225.6113	54.75	-35.52	39.75	-36.28	-13.00	23.28	291	266	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3946.5473	51.48	-44.19	29.89	-58.08	-13.00	45.08	187	230	Vertical
2	5684.3842	52.13	-41.19	32.50	-51.82	-13.00	38.82	264	242	Vertical
3	7864.7432	50.75	-37.63	36.71	-45.43	-13.00	32.43	225	306	Vertical
4	9463.8232	51.98	-35.78	37.58	-41.48	-13.00	28.48	216	290	Vertical
5	11029.1515	51.18	-37.16	40.13	-41.11	-13.00	28.11	263	242	Vertical
6	15230.1115	54.47	-35.56	39.76	-36.59	-13.00	23.59	299	262	Vertical



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Test Band = WCDMA_IV ANT 13_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3624.7812	51.60	-44.39	29.10	-58.95	-13.00	45.95	164	94	Horizontal
2	5168.3584	51.67	-42.54	31.84	-54.29	-13.00	41.29	226	266	Horizontal
3	7833.2417	50.44	-37.76	36.73	-45.85	-13.00	32.85	263	338	Horizontal
4	9462.3231	51.92	-35.77	37.57	-41.54	-13.00	28.54	233	290	Horizontal
5	10998.3999	51.16	-36.99	40.10	-40.99	-13.00	27.99	100	66	Horizontal
6	15212.8606	54.46	-35.41	39.73	-36.48	-13.00	23.48	156	214	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3942.0471	51.29	-44.19	29.87	-58.29	-13.00	45.29	242	170	Vertical
2	5639.382	51.97	-41.32	32.52	-52.09	-13.00	39.09	158	2	Vertical
3	7837.7419	50.65	-37.74	36.75	-45.60	-13.00	32.60	106	82	Vertical
4	9476.5738	51.66	-35.86	37.66	-41.80	-13.00	28.80	122	327	Vertical
5	10993.1497	51.12	-37.01	40.11	-41.04	-13.00	28.04	264	135	Vertical
6	15195.6098	54.35	-35.46	39.73	-36.64	-13.00	23.64	236	267	Vertical



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Test Band = WCDMA_IV ANT 13_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3606.7803	51.80	-44.36	28.95	-58.87	-13.00	45.87	356	174	Horizontal
2	5688.1344	51.90	-41.18	32.50	-52.04	-13.00	39.04	266	26	Horizontal
3	7841.4921	50.58	-37.73	36.77	-45.64	-13.00	32.64	201	302	Horizontal
4	9463.0732	52.05	-35.78	37.58	-41.41	-13.00	28.41	265	162	Horizontal
5	10985.6493	51.01	-37.04	40.11	-41.18	-13.00	28.18	315	182	Horizontal
6	16598.9299	54.75	-35.34	39.50	-36.35	-13.00	23.35	199	186	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3630.7815	51.52	-44.40	29.15	-58.99	-13.00	45.99	264	58	Vertical
2	5635.6318	52.01	-41.33	32.53	-52.05	-13.00	39.05	169	106	Vertical
3	7863.2432	50.51	-37.63	36.72	-45.66	-13.00	32.66	266	274	Vertical
4	9451.8226	51.84	-35.71	37.51	-41.62	-13.00	28.62	364	126	Vertical
5	10959.398	51.02	-37.16	40.14	-41.26	-13.00	28.26	219	50	Vertical
6	16598.9299	54.49	-35.34	39.50	-36.61	-13.00	23.61	218	294	Vertical



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Test Band = WCDMA_V ANT 13_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1356.7946	48.91	-47.60	25.07	-68.88	-13.00	55.88	261	53	Horizontal
2	2084.3855	48.38	-46.88	26.64	-67.12	-13.00	54.12	226	114	Horizontal
3	3058.8029	47.80	-45.26	28.82	-63.90	-13.00	50.90	361	166	Horizontal
4	3920.896	48.64	-44.19	29.78	-61.03	-13.00	48.03	266	252	Horizontal
5	5717.8859	47.00	-41.19	32.50	-56.95	-13.00	43.95	234	124	Horizontal
6	7411.9706	45.10	-38.28	36.72	-51.72	-13.00	38.72	181	183	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1410.0513	48.92	-47.41	24.98	-68.77	-13.00	55.77	356	241	Vertical
2	2412.6766	49.44	-46.62	27.45	-64.99	-13.00	51.99	167	106	Vertical
3	3814.8407	48.34	-44.82	29.77	-61.97	-13.00	48.97	400	237	Vertical
4	5714.0357	47.38	-41.18	32.50	-56.56	-13.00	43.56	171	166	Vertical
5	7710.8855	44.73	-37.60	36.71	-51.42	-13.00	38.42	194	247	Vertical
6	9899.895	42.97	-34.96	38.60	-48.65	-13.00	35.65	264	290	Vertical



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Test Band = WCDMA_V ANT 13_TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1659.8325	48.52	-47.50	25.42	-68.82	-13.00	55.82	184	271	Horizontal
2	2506.1883	52.08	-46.66	27.80	-62.04	-13.00	49.04	291	68	Horizontal
3	3925.4463	48.73	-44.19	29.80	-60.92	-13.00	47.92	364	273	Horizontal
4	5859.293	47.74	-41.24	32.64	-56.12	-13.00	43.12	144	18	Horizontal
5	7414.0707	44.94	-38.28	36.73	-51.87	-13.00	38.87	169	103	Horizontal
6	9900.945	43.06	-34.98	38.60	-48.58	-13.00	35.58	348	82	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1631.3289	48.50	-47.55	25.35	-68.96	-13.00	55.96	179	267	Vertical
2	2505.9382	49.20	-46.66	27.80	-64.92	-13.00	51.92	263	355	Vertical
3	3713.3357	48.56	-44.57	29.38	-61.89	-13.00	48.89	100	251	Vertical
4	5884.8442	46.96	-41.16	32.74	-56.72	-13.00	43.72	199	117	Vertical
5	7750.0875	45.05	-37.73	36.40	-51.54	-13.00	38.54	297	171	Vertical
6	9897.4449	43.23	-34.98	38.58	-48.43	-13.00	35.43	346	241	Vertical



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Test Band = WCDMA_V ANT 13_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1454.8069	48.77	-47.52	25.26	-68.75	-13.00	55.75	254	47	Horizontal
2	2536.6921	52.38	-46.50	27.80	-61.58	-13.00	48.58	261	101	Horizontal
3	3615.6808	48.64	-44.38	29.03	-61.97	-13.00	48.97	281	301	Horizontal
4	5708.0854	47.14	-41.16	32.50	-56.78	-13.00	43.78	266	275	Horizontal
5	7736.4368	44.85	-37.68	36.51	-51.58	-13.00	38.58	106	114	Horizontal
6	9897.0949	43.17	-34.98	38.58	-48.49	-13.00	35.49	339	135	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1427.3034	48.64	-47.45	25.12	-68.95	-13.00	55.95	265	206	Vertical
2	2536.9421	49.58	-46.50	27.80	-64.38	-13.00	51.38	339	137	Vertical
3	3708.7854	48.78	-44.55	29.35	-61.68	-13.00	48.68	129	198	Vertical
4	5384.3192	47.01	-42.04	32.41	-57.88	-13.00	44.88	334	279	Vertical
5	7687.0844	44.60	-37.72	36.75	-51.63	-13.00	38.63	261	252	Vertical
6	9913.1957	43.25	-35.31	38.61	-48.71	-13.00	35.71	263	322	Vertical



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Test Band = WCDMA_II ANT 31 _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3702.7851	52.50	-44.52	29.32	-57.96	-13.00	44.96	254	54	Horizontal
2	5703.8852	52.09	-41.15	32.50	-51.82	-13.00	38.82	242	109	Horizontal
3	7701.2351	50.40	-37.56	36.79	-45.63	-13.00	32.63	287	192	Horizontal
4	9549.3275	51.58	-35.83	37.80	-41.71	-13.00	28.71	249	354	Horizontal
5	13501.2751	52.41	-37.99	39.90	-40.94	-13.00	27.94	266	256	Horizontal
6	16598.9299	54.37	-35.34	39.50	-36.73	-13.00	23.73	155	351	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3905.2953	50.78	-44.20	29.72	-58.96	-13.00	45.96	246	295	Vertical
2	6073.6537	51.19	-40.73	33.45	-51.35	-13.00	38.35	215	203	Vertical
3	7880.494	50.33	-37.56	36.62	-45.87	-13.00	32.87	266	84	Vertical
4	9458.5729	51.83	-35.75	37.55	-41.63	-13.00	28.63	236	68	Vertical
5	11059.903	50.85	-37.35	40.16	-41.60	-13.00	28.60	162	271	Vertical
6	15232.3616	54.39	-35.58	39.76	-36.69	-13.00	23.69	254	56	Vertical



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Test Band = WCDMA_II ANT 31 _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3762.0381	52.96	-44.77	29.65	-57.42	-13.00	44.42	249	72	Horizontal
2	5937.8969	51.52	-41.16	32.88	-52.02	-13.00	39.02	264	104	Horizontal
3	7951.7476	50.34	-37.37	36.40	-45.89	-13.00	32.89	336	56	Horizontal
4	9487.8244	51.94	-35.93	37.73	-41.52	-13.00	28.52	216	203	Horizontal
5	11018.6509	50.87	-37.09	40.12	-41.36	-13.00	28.36	261	139	Horizontal
6	16598.1799	54.60	-35.35	39.50	-36.51	-13.00	23.51	222	342	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3667.5334	51.41	-44.46	29.30	-59.01	-13.00	46.01	303	64	Vertical
2	5719.636	51.92	-41.20	32.50	-52.04	-13.00	39.04	224	188	Vertical
3	7421.4711	50.92	-38.28	36.74	-45.88	-13.00	32.88	302	9	Vertical
4	9471.3236	51.93	-35.83	37.63	-41.53	-13.00	28.53	265	227	Vertical
5	11005.1503	50.97	-37.01	40.11	-41.19	-13.00	28.19	211	80	Vertical
6	15200.86	53.99	-35.30	39.70	-36.87	-13.00	23.87	264	211	Vertical



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Test Band = WCDMA_II ANT 31 _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3816.7908	56.20	-44.81	29.77	-54.10	-13.00	41.10	243	59	Horizontal
2	5907.1454	51.44	-41.12	32.81	-52.13	-13.00	39.13	251	311	Horizontal
3	7847.4924	50.28	-37.70	36.79	-45.89	-13.00	32.89	266	268	Horizontal
4	9436.8218	51.70	-35.61	37.45	-41.72	-13.00	28.72	216	178	Horizontal
5	11021.6511	50.88	-37.11	40.12	-41.37	-13.00	28.37	219	51	Horizontal
6	15208.3604	54.29	-35.37	39.72	-36.62	-13.00	23.62	236	189	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3940.547	50.78	-44.19	29.86	-58.81	-13.00	45.81	262	351	Vertical
2	5710.6355	51.77	-41.17	32.50	-52.16	-13.00	39.16	251	102	Vertical
3	7855.7428	50.24	-37.67	36.77	-45.92	-13.00	32.92	266	220	Vertical
4	9473.5737	51.90	-35.84	37.64	-41.56	-13.00	28.56	226	31	Vertical
5	11035.1518	50.71	-37.19	40.14	-41.60	-13.00	28.60	169	264	Vertical
6	16586.9293	54.58	-35.38	39.47	-36.59	-13.00	23.59	214	126	Vertical



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Test Band = WCDMA_IV ANT 31 _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3647.2824	51.62	-44.43	29.28	-58.79	-13.00	45.79	258	306	Horizontal
2	5706.8853	51.93	-41.16	32.50	-51.99	-13.00	38.99	155	185	Horizontal
3	7482.2241	50.66	-38.29	36.86	-46.03	-13.00	33.03	264	185	Horizontal
4	9431.5716	51.64	-35.58	37.43	-41.77	-13.00	28.77	261	322	Horizontal
5	11103.4052	51.32	-37.65	40.20	-41.39	-13.00	28.39	266	255	Horizontal
6	15200.86	54.13	-35.30	39.70	-36.73	-13.00	23.73	258	39	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3621.0311	51.52	-44.38	29.07	-59.05	-13.00	46.05	308	184	Vertical
2	5636.3818	51.77	-41.33	32.53	-52.29	-13.00	39.29	384	322	Vertical
3	7849.7425	50.38	-37.69	36.80	-45.77	-13.00	32.77	241	196	Vertical
4	9427.0714	51.75	-35.55	37.41	-41.65	-13.00	28.65	266	176	Vertical
5	11087.6544	50.94	-37.51	40.19	-41.64	-13.00	28.64	218	26	Vertical
6	15203.8602	54.31	-35.33	39.71	-36.57	-13.00	23.57	264	180	Vertical



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Test Band = WCDMA_IV ANT 31 _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3600.03	51.56	-44.35	28.90	-59.15	-13.00	46.15	251	94	Horizontal
2	5675.3838	51.96	-41.21	32.50	-52.01	-13.00	39.01	361	346	Horizontal
3	7858.7429	50.22	-37.65	36.75	-45.94	-13.00	32.94	226	204	Horizontal
4	9492.3246	51.73	-35.96	37.75	-41.74	-13.00	28.74	215	295	Horizontal
5	11029.1515	51.31	-37.16	40.13	-40.98	-13.00	27.98	299	331	Horizontal
6	15208.3604	54.64	-35.37	39.72	-36.27	-13.00	23.27	321	244	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3695.2848	51.45	-44.50	29.30	-59.01	-13.00	46.01	366	208	Vertical
2	5730.1365	51.88	-41.23	32.50	-52.11	-13.00	39.11	241	181	Vertical
3	7694.4847	50.18	-37.63	36.78	-45.93	-13.00	32.93	156	303	Vertical
4	9457.0729	51.78	-35.74	37.54	-41.68	-13.00	28.68	266	94	Vertical
5	11062.9031	51.13	-37.36	40.16	-41.33	-13.00	28.33	219	303	Vertical
6	15194.1097	54.25	-35.52	39.74	-36.79	-13.00	23.79	264	157	Vertical



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Test Band = WCDMA_IV ANT 31 _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3649.5325	51.28	-44.43	29.30	-59.11	-13.00	46.11	183	299	Horizontal
2	5171.3586	58.14	-42.54	31.84	-47.82	-13.00	34.82	199	124	Horizontal
3	7462.7231	50.55	-38.29	36.83	-46.17	-13.00	33.17	256	264	Horizontal
4	9455.5728	51.80	-35.73	37.53	-41.66	-13.00	28.66	342	188	Horizontal
5	11000.65	50.78	-36.98	40.10	-41.36	-13.00	28.36	166	156	Horizontal
6	15196.3598	54.29	-35.43	39.72	-36.68	-13.00	23.68	285	49	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3615.0308	51.95	-44.37	29.02	-58.66	-13.00	45.66	333	275	Vertical
2	5701.6351	51.69	-41.14	32.50	-52.21	-13.00	39.21	321	102	Vertical
3	7714.7357	50.00	-37.61	36.68	-46.19	-13.00	33.19	164	267	Vertical
4	9444.3222	51.73	-35.66	37.48	-41.71	-13.00	28.71	285	327	Vertical
5	11006.6503	50.70	-37.02	40.11	-41.47	-13.00	28.47	177	315	Vertical
6	15219.611	54.43	-35.47	39.74	-36.56	-13.00	23.56	136	133	Vertical



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Test Band = WCDMA_V ANT 31_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1438.5548	48.27	-47.48	25.21	-69.26	-13.00	56.26	321	45	Horizontal
2	1793.8492	47.97	-47.34	25.35	-69.28	-13.00	56.28	268	238	Horizontal
3	3001.0501	47.38	-45.01	28.60	-64.29	-13.00	51.29	246	255	Horizontal
4	4723.1362	47.06	-42.93	30.55	-60.58	-13.00	47.58	264	334	Horizontal
5	7189.7095	44.05	-38.74	36.56	-53.39	-13.00	40.39	256	224	Horizontal
6	9557.2279	43.62	-35.80	37.80	-49.64	-13.00	36.64	284	49	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1660.3325	48.02	-47.50	25.42	-69.32	-13.00	56.32	261	184	Vertical
2	2201.6502	48.40	-47.00	26.90	-66.96	-13.00	53.96	255	154	Vertical
3	4022.7511	48.00	-44.19	29.71	-61.74	-13.00	48.74	241	217	Vertical
4	5678.6839	46.65	-41.20	32.50	-57.31	-13.00	44.31	230	112	Vertical
5	7372.4186	44.83	-38.45	36.59	-52.29	-13.00	39.29	216	233	Vertical
6	9521.1761	43.76	-35.93	37.80	-49.63	-13.00	36.63	297	233	Vertical



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Rev.: 01

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Test Band = WCDMA_V ANT 31_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1399.5499	48.15	-47.39	24.90	-69.60	-13.00	56.60	309	25	Horizontal
2	2506.4383	49.07	-46.66	27.80	-65.05	-13.00	52.05	211	55	Horizontal
3	3733.6367	48.87	-44.65	29.50	-61.54	-13.00	48.54	264	17	Horizontal
4	5698.2849	46.72	-41.15	32.50	-57.19	-13.00	44.19	258	86	Horizontal
5	7439.272	44.41	-38.28	36.78	-52.35	-13.00	39.35	218	154	Horizontal
6	9478.4739	43.78	-35.87	37.67	-49.68	-13.00	36.68	223	22	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1450.0563	48.08	-47.51	25.30	-69.39	-13.00	56.39	215	173	Vertical
2	2094.1368	47.89	-46.87	26.74	-67.50	-13.00	54.50	362	43	Vertical
3	3058.1029	47.34	-45.25	28.82	-64.35	-13.00	51.35	201	301	Vertical
4	5730.4865	46.99	-41.23	32.50	-57.00	-13.00	44.00	223	169	Vertical
5	7864.8932	43.98	-37.63	36.71	-52.20	-13.00	39.20	215	6	Vertical
6	9485.8243	43.79	-35.92	37.71	-49.68	-13.00	36.68	299	248	Vertical



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Test Band = WCDMA_V ANT 31_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1412.3015	48.28	-47.42	25.00	-69.40	-13.00	56.40	261	234	Horizontal
2	2536.6921	48.95	-46.50	27.80	-65.01	-13.00	52.01	233	189	Horizontal
3	3730.8365	48.79	-44.64	29.49	-61.62	-13.00	48.62	261	159	Horizontal
4	5693.7347	46.80	-41.16	32.50	-57.12	-13.00	44.12	264	360	Horizontal
5	8002.1001	44.30	-37.26	36.40	-51.82	-13.00	38.82	211	149	Horizontal
6	9558.9779	43.45	-35.79	37.80	-49.80	-13.00	36.80	263	170	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1438.5548	47.98	-47.48	25.21	-69.55	-13.00	56.55	355	55	Vertical
2	2373.4217	47.56	-46.62	27.51	-66.81	-13.00	53.81	247	43	Vertical
3	3730.8365	48.68	-44.64	29.49	-61.73	-13.00	48.73	158	216	Vertical
4	5670.2835	46.69	-41.23	32.50	-57.30	-13.00	44.30	227	316	Vertical
5	7444.8722	44.54	-38.28	36.79	-52.21	-13.00	39.21	165	22	Vertical
6	9627.5814	43.52	-35.83	37.97	-49.60	-13.00	36.60	138	121	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandIII	9400	VN	NT	-4.18	-0.002223	PASS
BandIII	9400	VL	NT	-4.55	-0.002420	PASS
BandIII	9400	VH	NT	-4.56	-0.002426	PASS
BandIV	1413	VN	NT	-3.10	-0.001789	PASS
BandIV	1413	VL	NT	-2.94	-0.001697	PASS
BandIV	1413	VH	NT	-3.10	-0.001789	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VN	NT	0.36	0.000430	±2.5	PASS
BandV	4182	VL	NT	-0.14	-0.000167	±2.5	PASS
BandV	4182	VH	NT	-0.01	-0.000012	±2.5	PASS



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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	-4.04	-0.002149	PASS
BandII	9400	NV	-20	-3.62	-0.001926	PASS
BandII	9400	NV	0	-3.59	-0.001910	PASS
BandII	9400	NV	10	-3.79	-0.002016	PASS
BandII	9400	NV	20	-2.90	-0.001543	PASS
BandII	9400	NV	30	-3.91	-0.002080	PASS
BandII	9400	NV	40	-3.18	-0.001691	PASS
BandII	9400	NV	50	-2.97	-0.001580	PASS
BandIV	1413	NV	-30	-3.11	-0.001795	PASS
BandIV	1413	NV	-20	-2.74	-0.001581	PASS
BandIV	1413	NV	0	-2.73	-0.001576	PASS
BandIV	1413	NV	10	-2.86	-0.001651	PASS
BandIV	1413	NV	20	-2.48	-0.001431	PASS
BandIV	1413	NV	30	-2.46	-0.001420	PASS
BandIV	1413	NV	40	-2.95	-0.001703	PASS
BandIV	1413	NV	50	-2.36	-0.001362	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	-0.11	-0.000132	±2.5	PASS
BandV	4182	NV	-20	-0.14	-0.000167	±2.5	PASS
BandV	4182	NV	0	-0.32	-0.000383	±2.5	PASS
BandV	4182	NV	10	-0.06	-0.000072	±2.5	PASS
BandV	4182	NV	20	-0.16	-0.000191	±2.5	PASS
BandV	4182	NV	30	-0.24	-0.000287	±2.5	PASS
BandV	4182	NV	40	-0.41	-0.000490	±2.5	PASS
BandV	4182	NV	50	-0.44	-0.000526	±2.5	PASS

---End of Attachment---



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