



Appendix B.1

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	22.53	21.33	33	PASS
Band II	9400	22.48	21.28	33	PASS
Band II	9538	22.54	21.34	33	PASS
Band IV	1312	22.84	19.44	30	PASS
Band IV	1413	22.86	19.46	30	PASS
Band IV	1513	22.84	19.44	30	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	22.96	16.91	38.5	PASS
Band V	4182	22.86	16.81	38.5	PASS
Band V	4233	22.82	16.77	38.5	PASS



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Peak-to-Average Ratio

Test Result

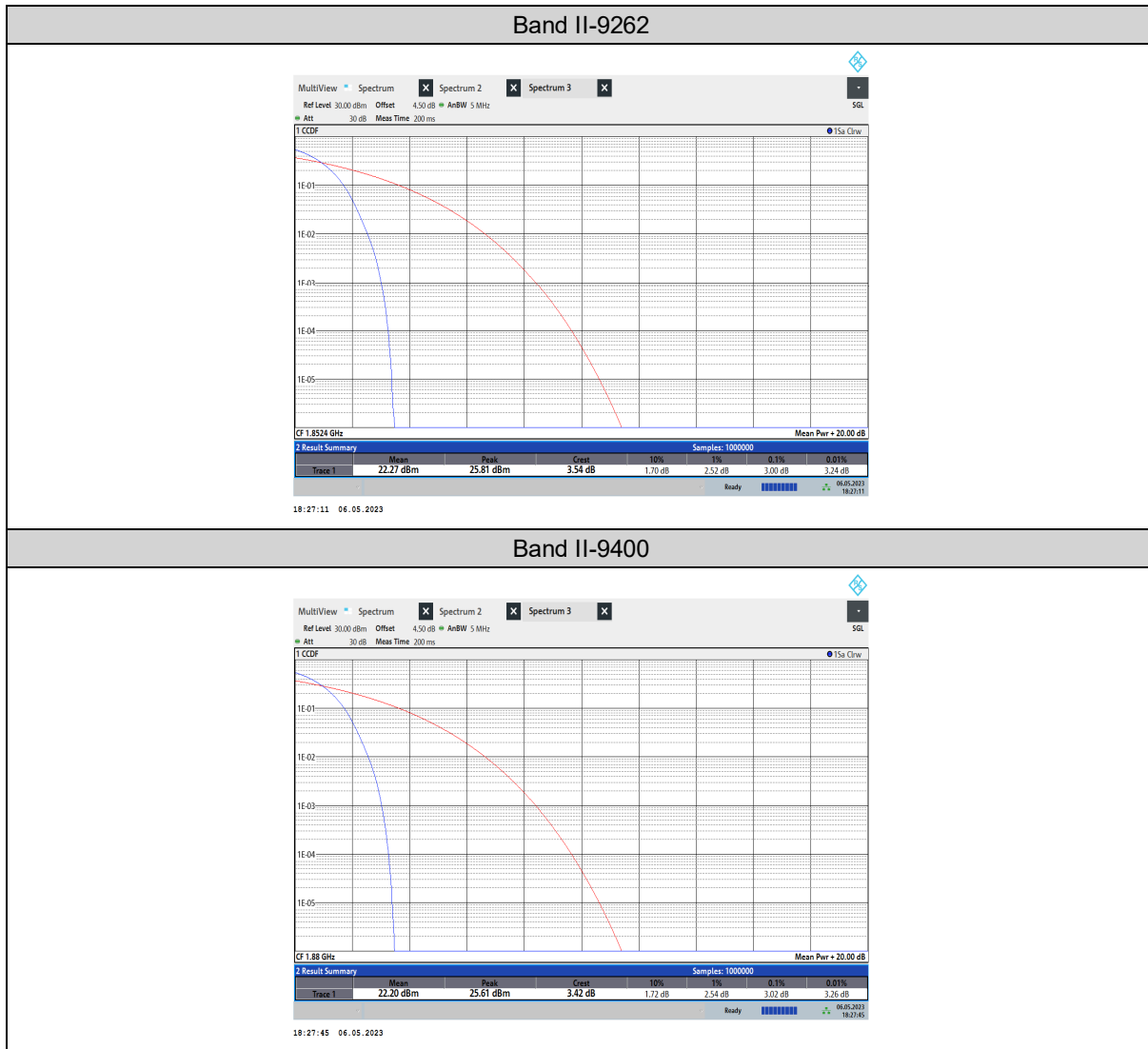
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.00	13	PASS
Band II	9400	3.02	13	PASS
Band II	9538	2.92	13	PASS
Band IV	1312	2.82	13	PASS
Band IV	1413	2.88	13	PASS
Band IV	1513	2.80	13	PASS
Band V	4132	3.02	13	PASS
Band V	4182	3.06	13	PASS
Band V	4233	2.92	13	PASS



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Test Graphs

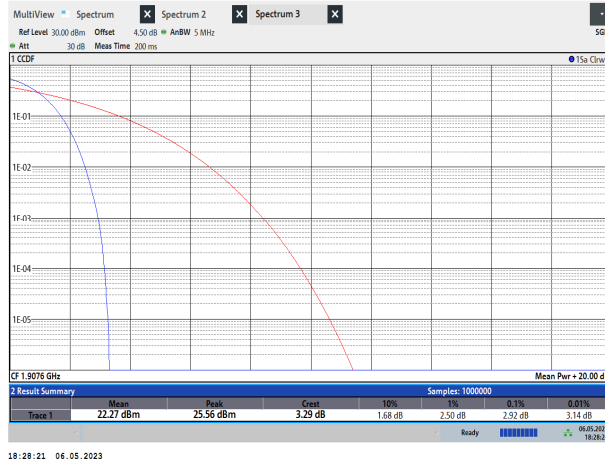


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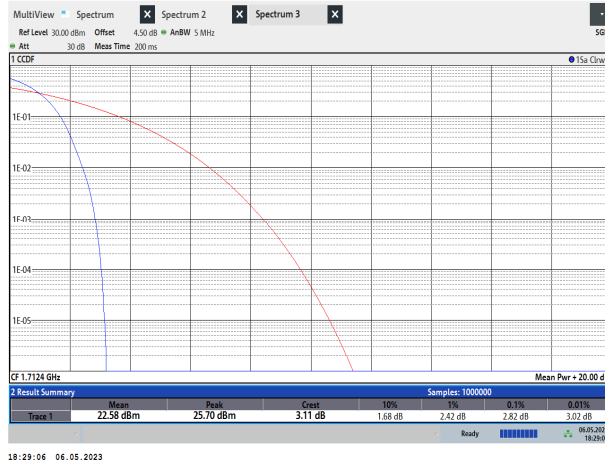
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Band II-9538



Band IV-1312

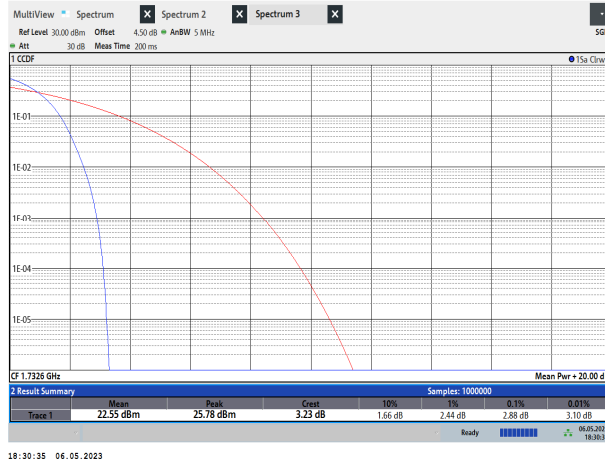


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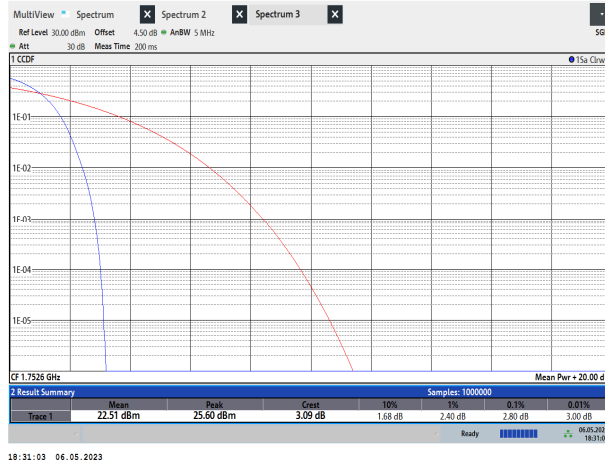
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Band IV-1413



Band IV-1513

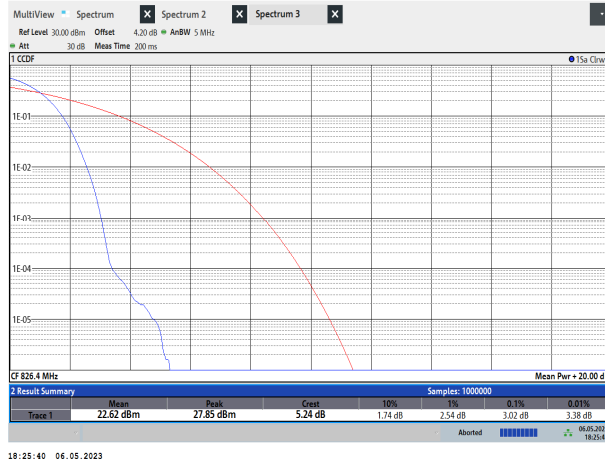


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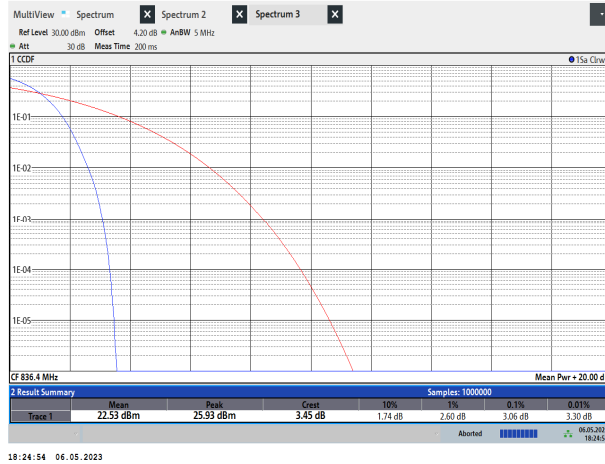
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Band V-4132



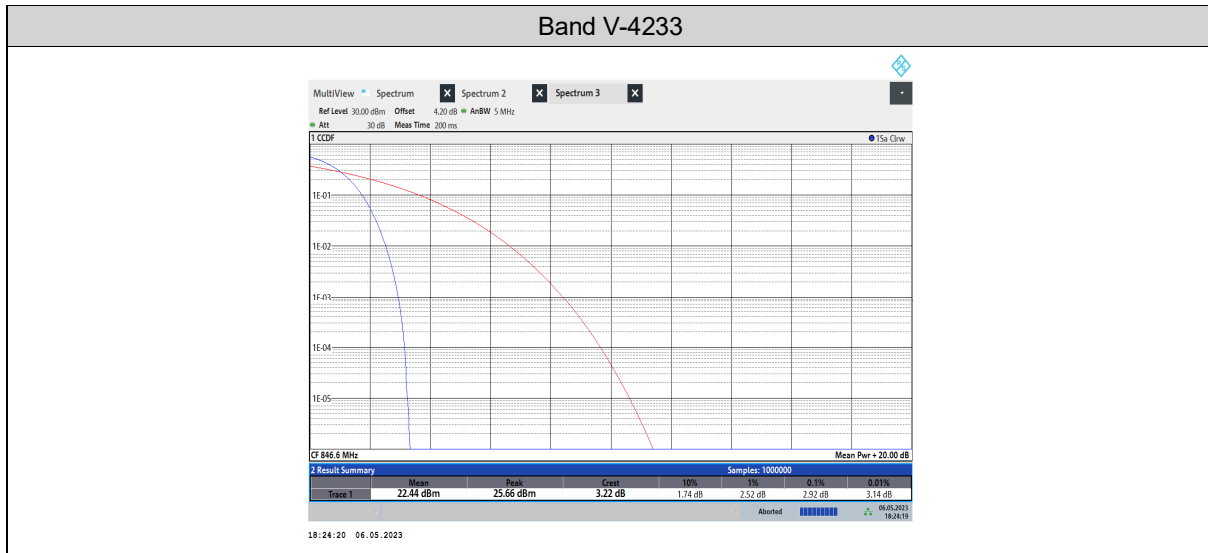
Band V-4182



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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band II	9400	PASS	PASS
Band IV	1413	PASS	PASS
Band V	4182	PASS	PASS

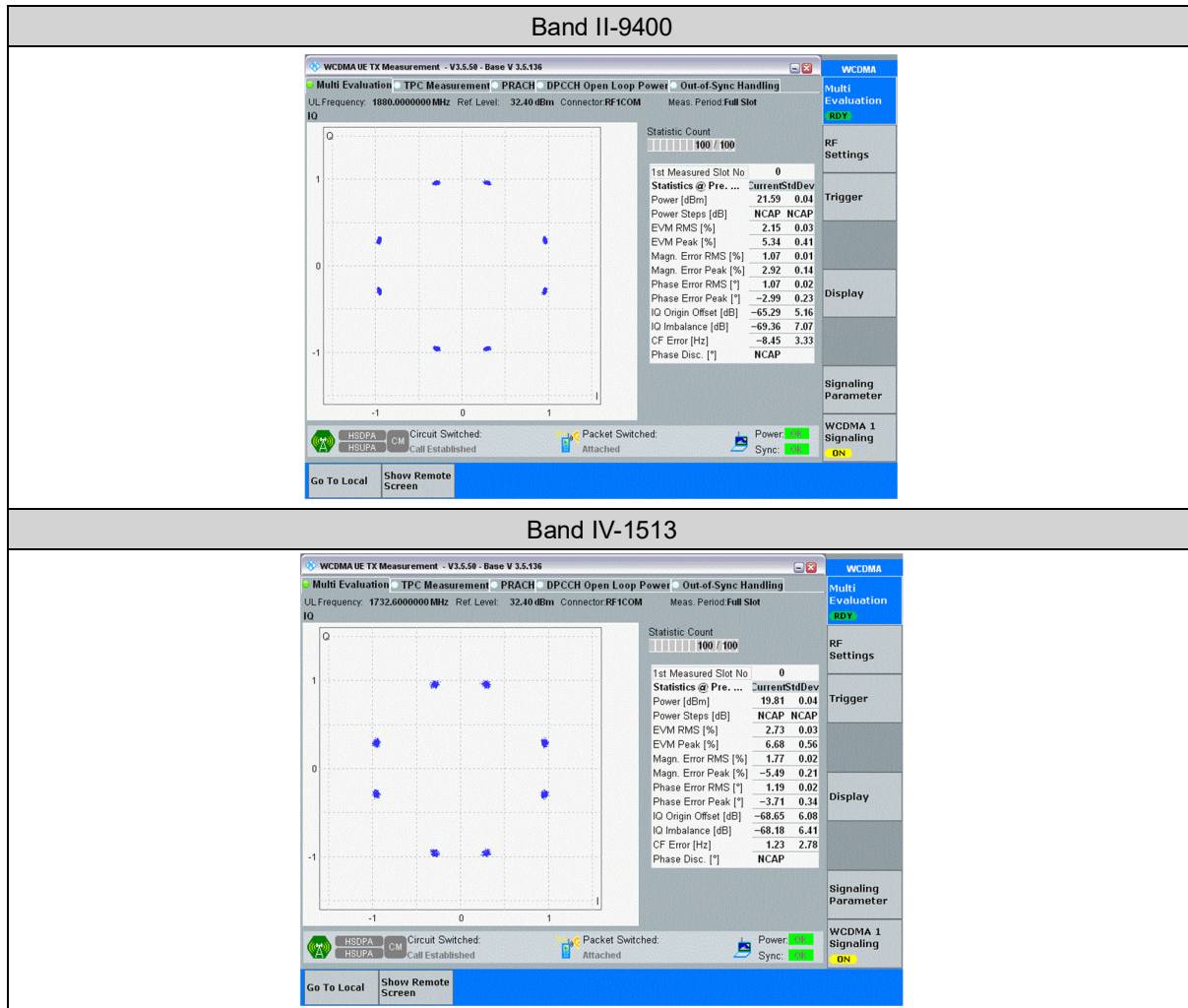


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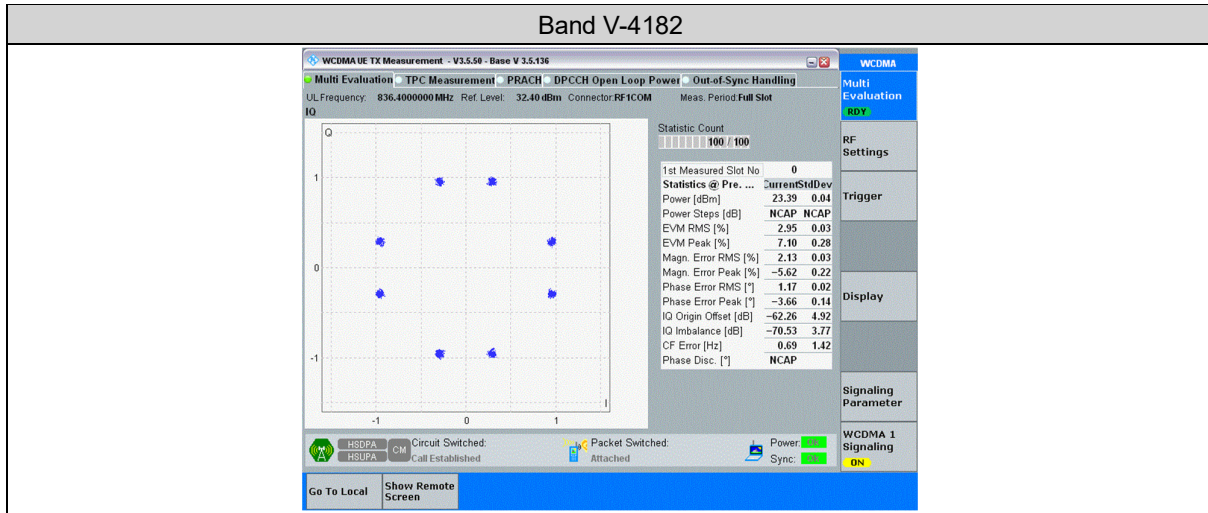
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band II	9262	4.171	4.72	---	PASS
Band II	9400	4.171	4.74	---	PASS
Band II	9538	4.171	4.73	---	PASS
Band IV	1312	4.145	4.72	---	PASS
Band IV	1413	4.150	4.72	---	PASS
Band IV	1513	4.152	4.73	---	PASS
Band V	4132	4.148	4.70	---	PASS
Band V	4182	4.143	4.70	---	PASS
Band V	4233	4.147	4.71	---	PASS



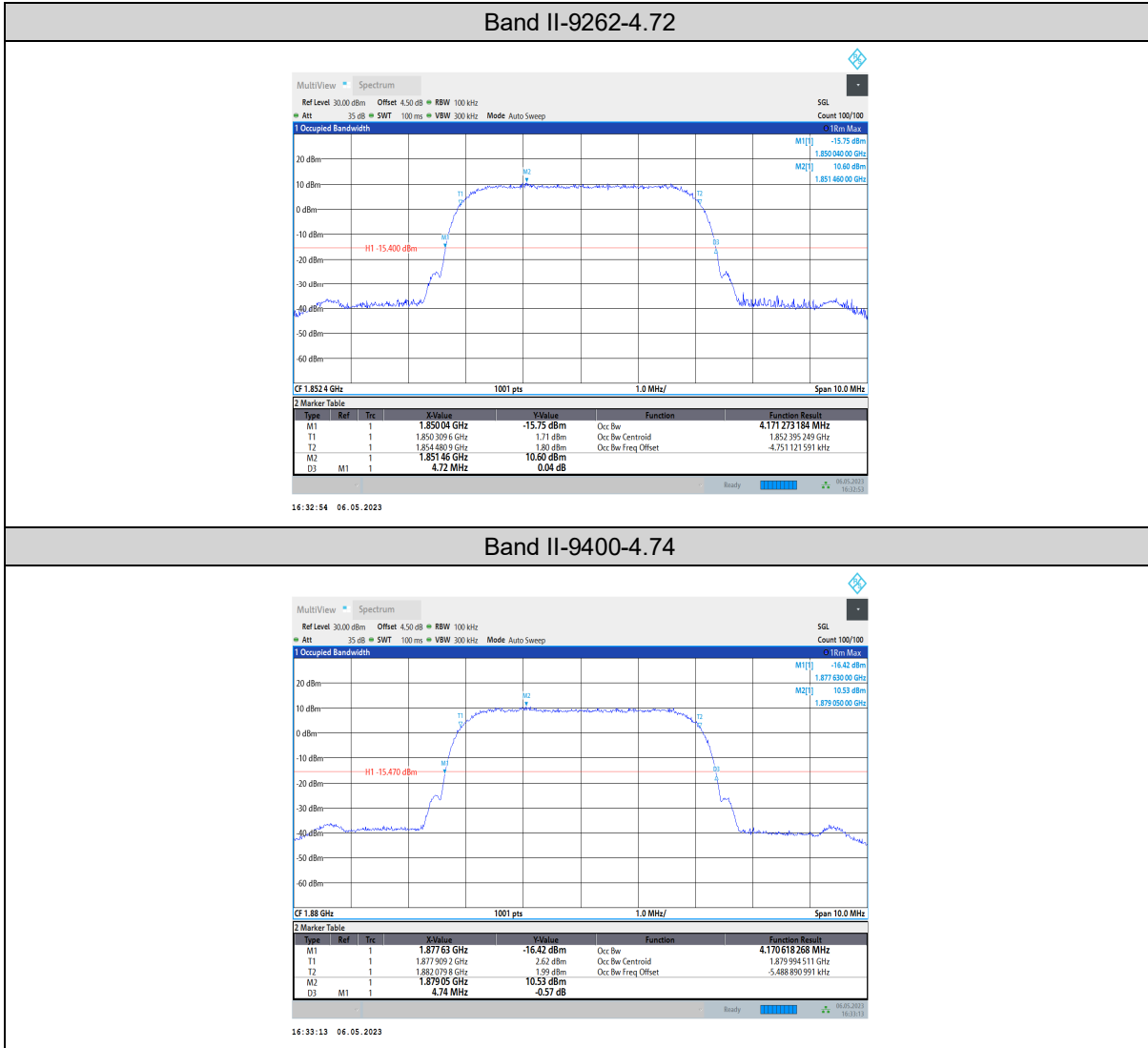
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Wireless Laboratories

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Test Graphs

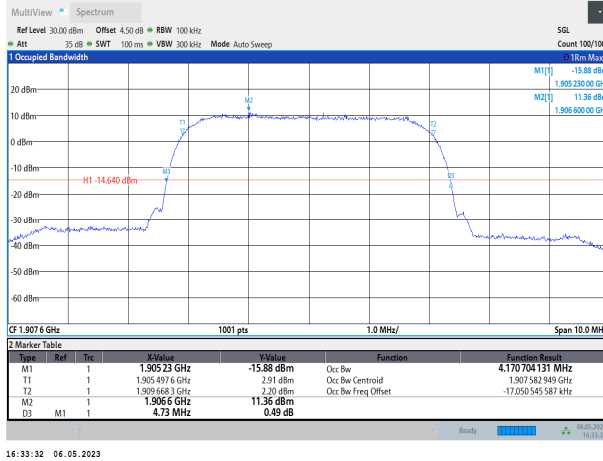


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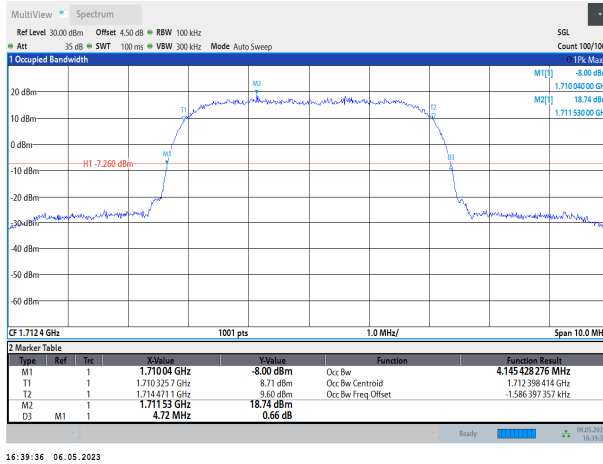
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Band II-9538-4.73



Band IV-1312-4.72

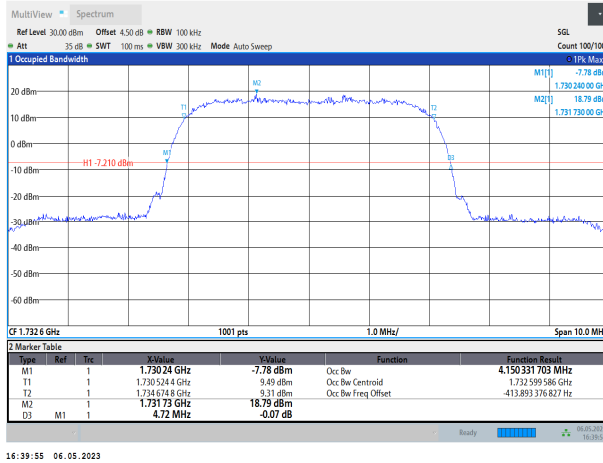


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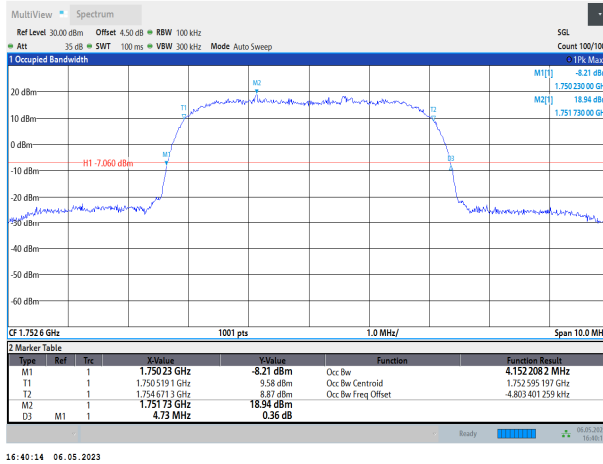
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Band IV-1413-4.72



Band IV-1513-4.73

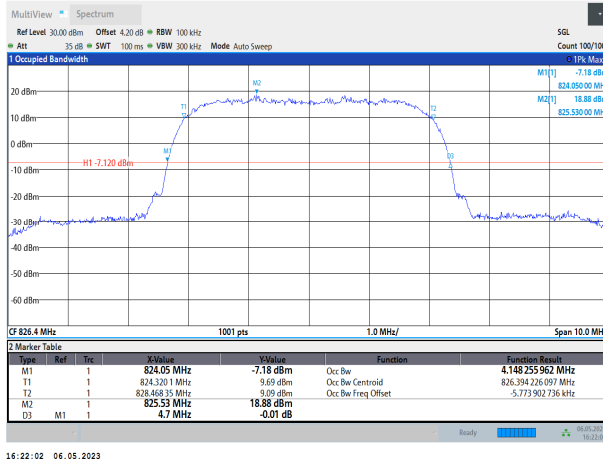


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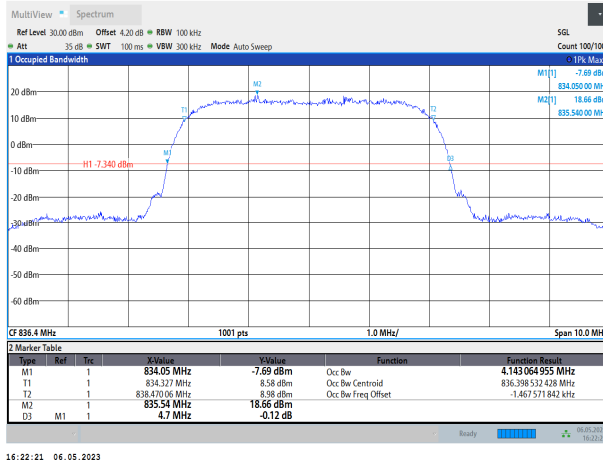
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Band V-4132-4.70



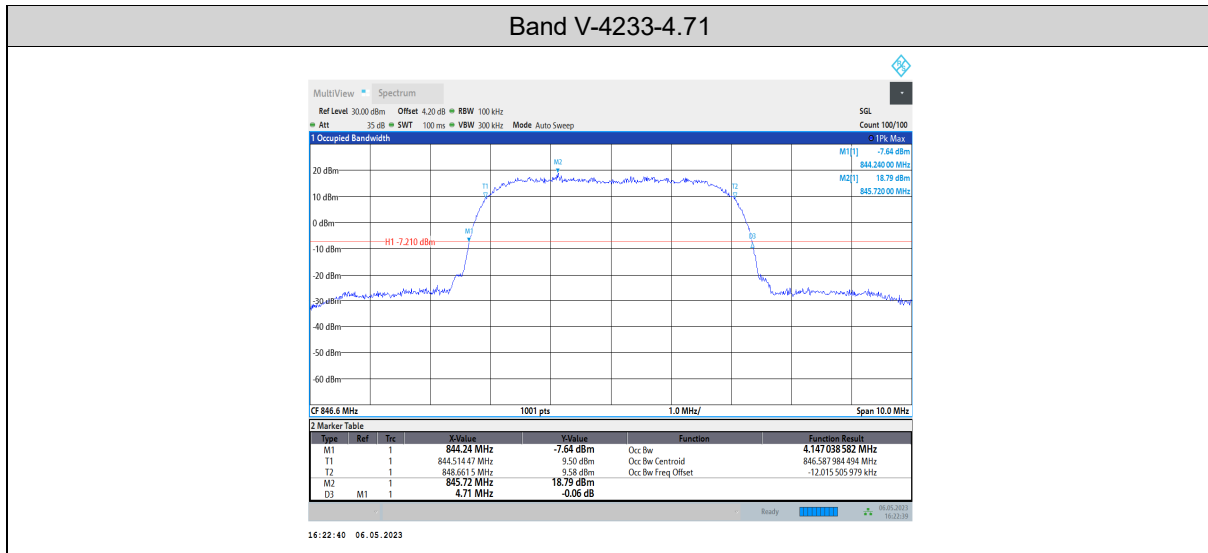
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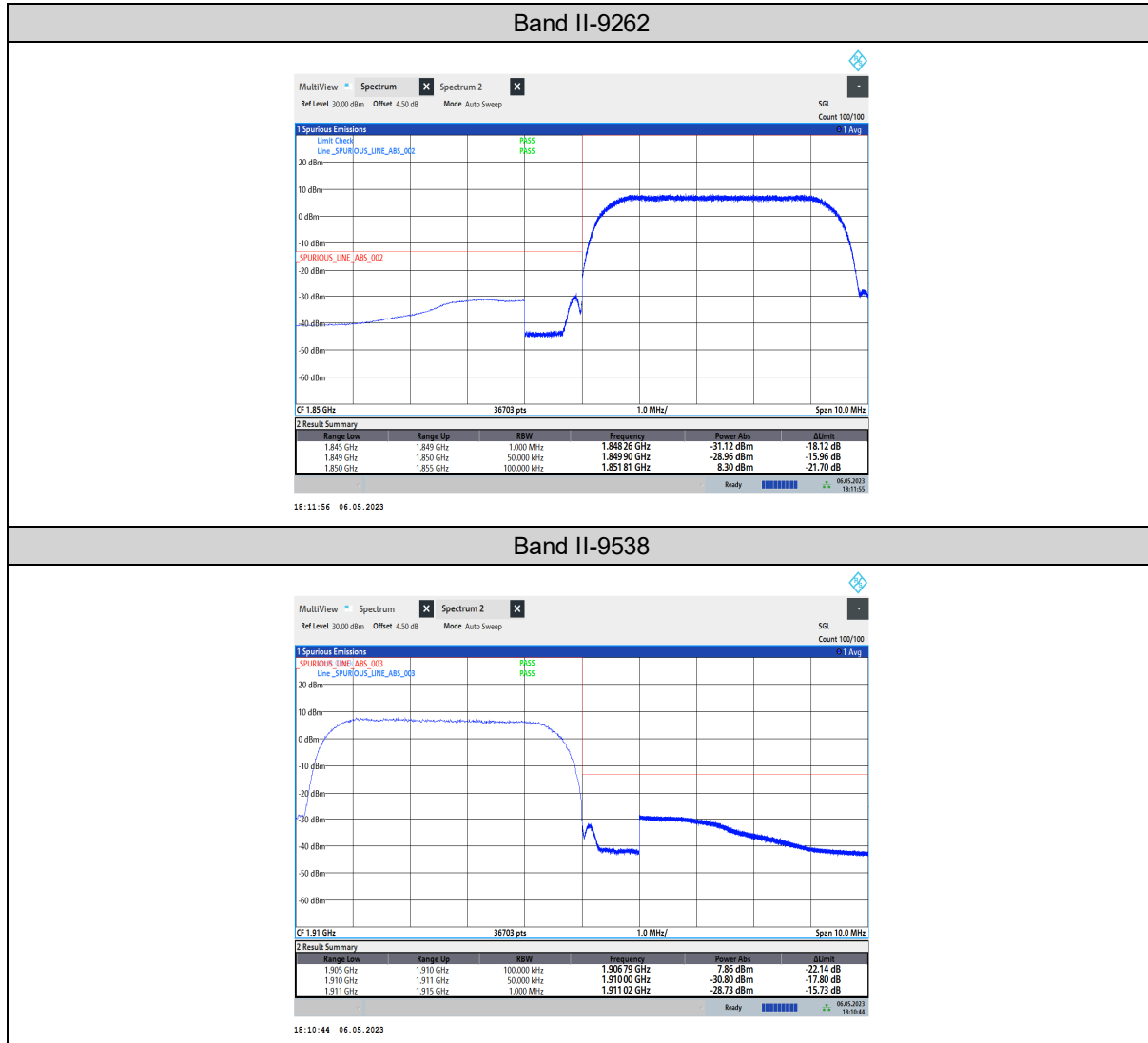


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Band Edge

Test Graphs

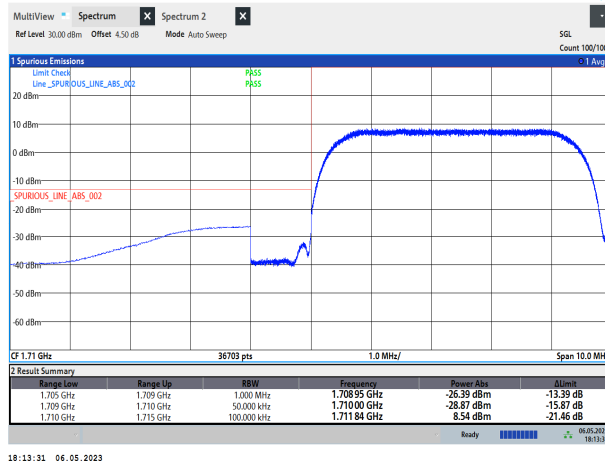


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Band IV-1312



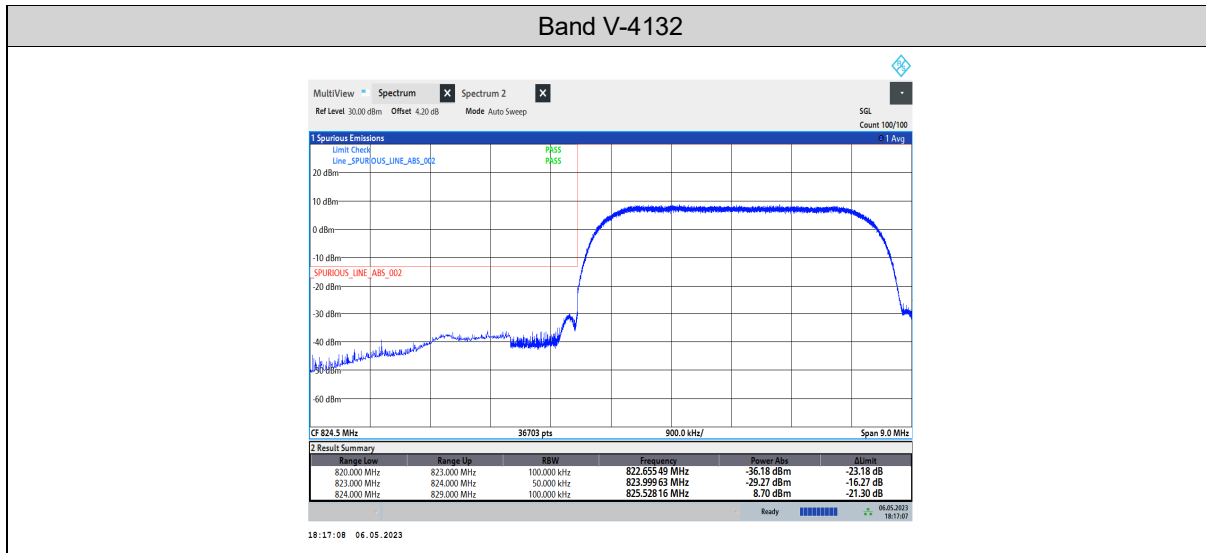
Band IV-1513



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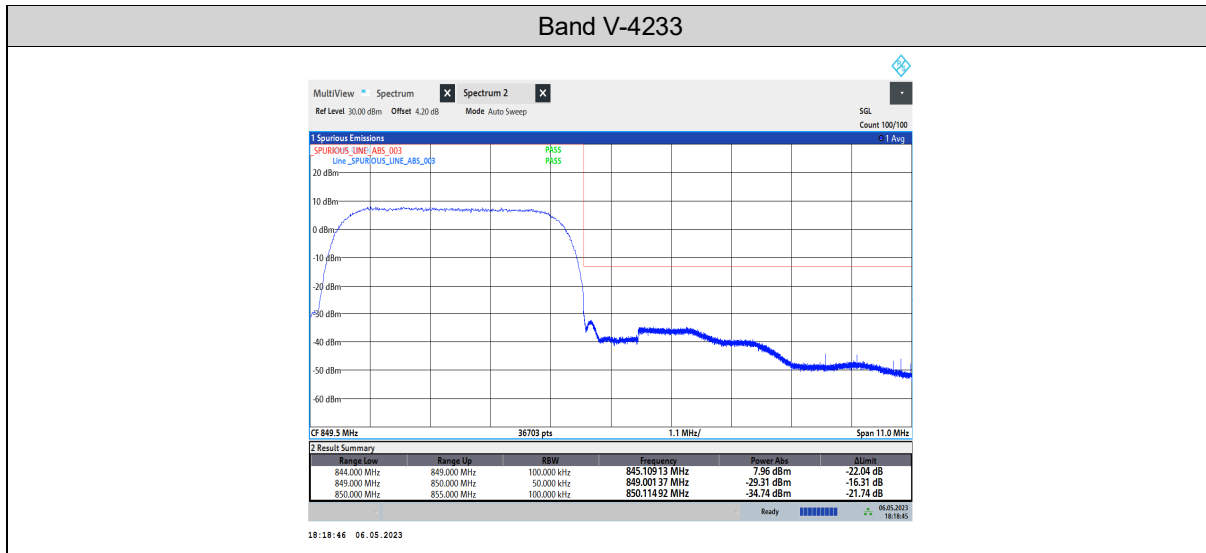
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Conducted Spurious Emission

Test Graphs



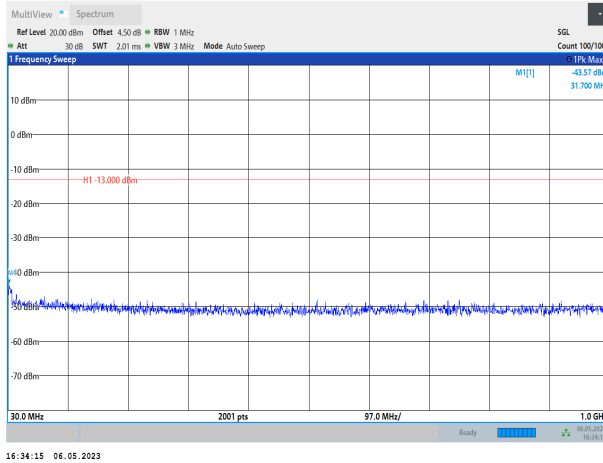
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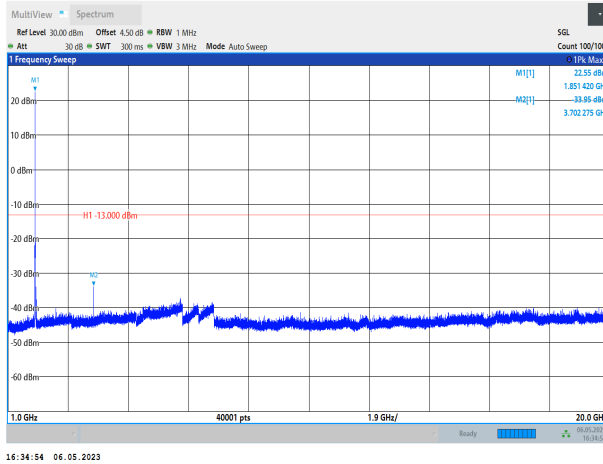
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Band II-9262-30~1000MHz



Band II-9262-1000~20000MHz



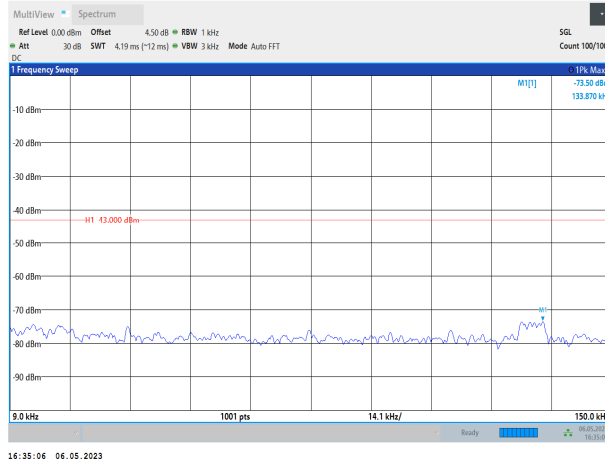
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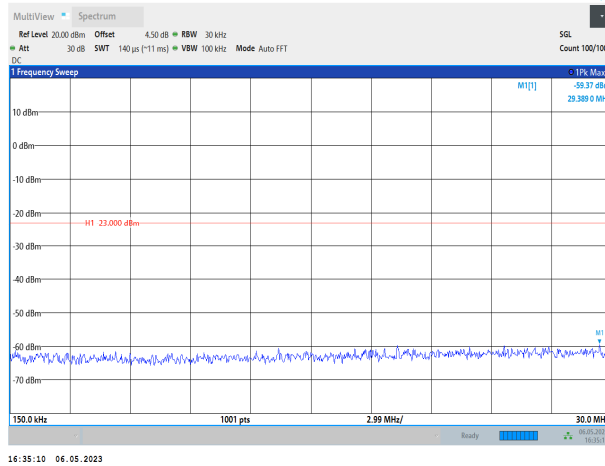
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Band II-9400-0.009~0.15MHz



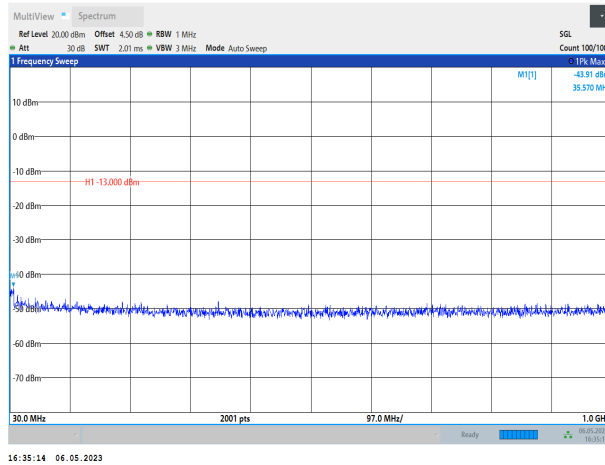
Band II-9400-0.15~30MHz



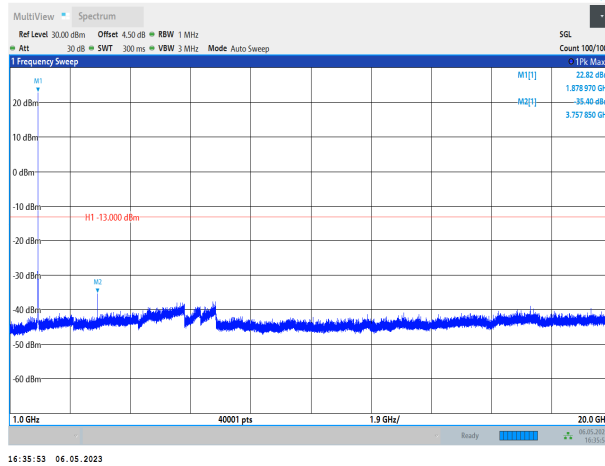
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Band II-9400-30~1000MHz



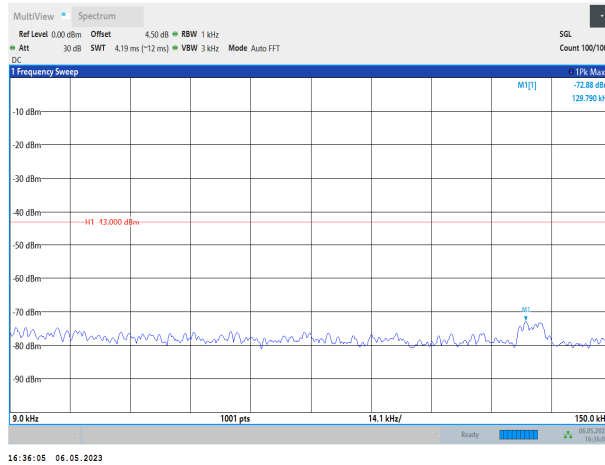
Band II-9400-1000~20000MHz



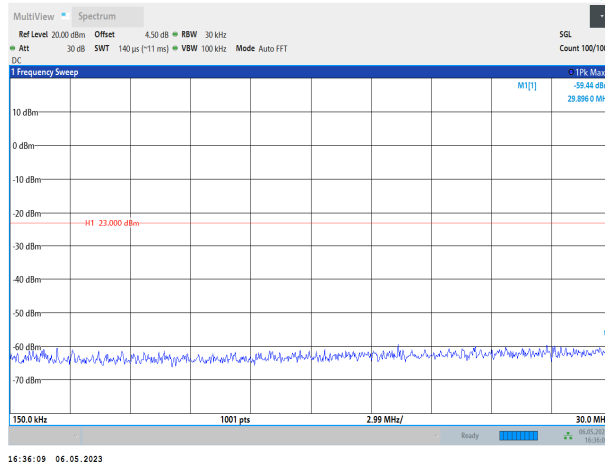
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Band II-9538-0.009~0.15MHz



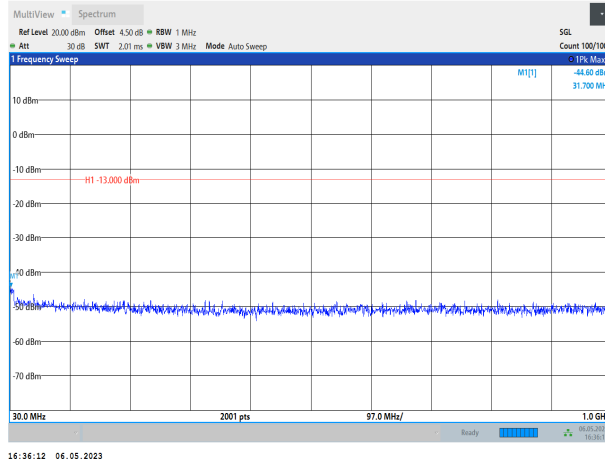
Band II-9538-0.15~30MHz



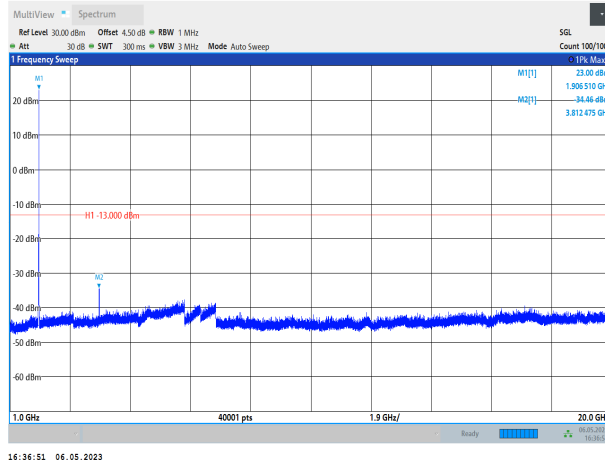
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Band II-9538-30~1000MHz



Band II-9538-1000~20000MHz

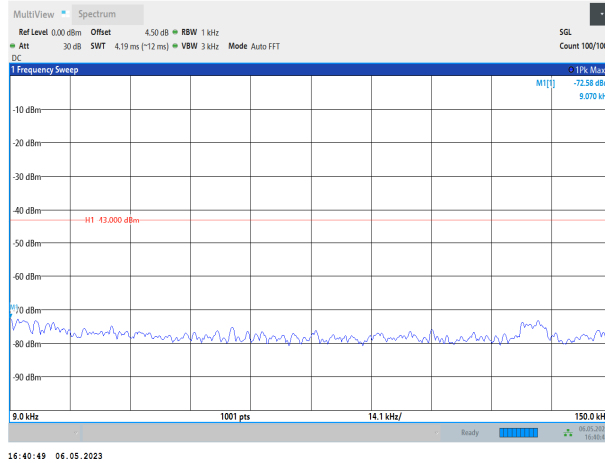


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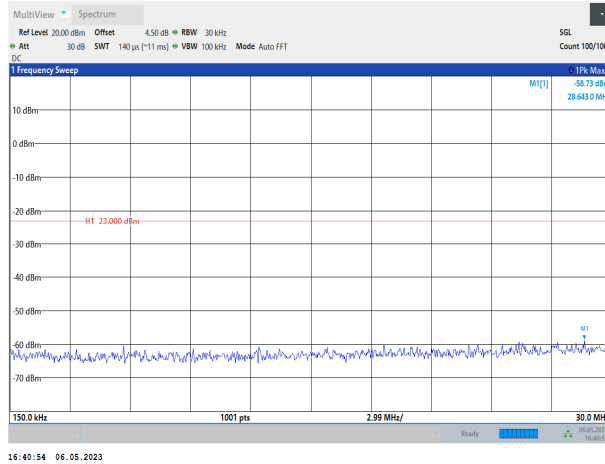
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Band IV-1312-0.009~0.15MHz



Band IV-1312-0.15~30MHz

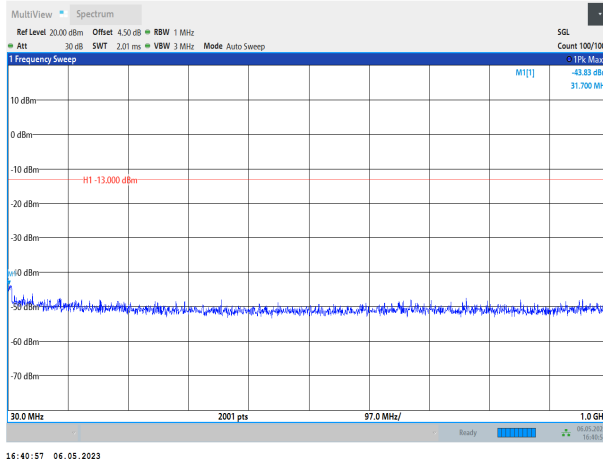


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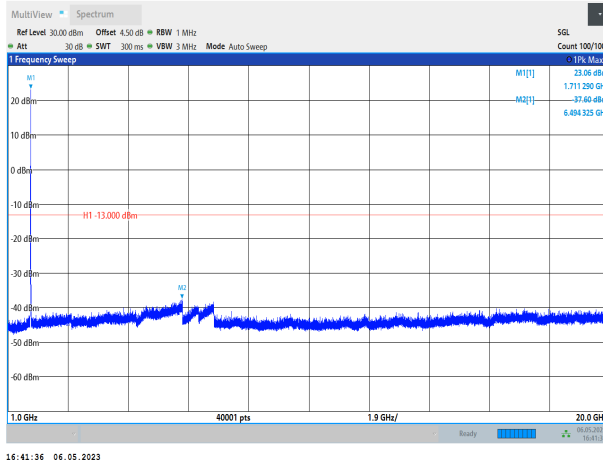
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Band IV-1312-30~1000MHz



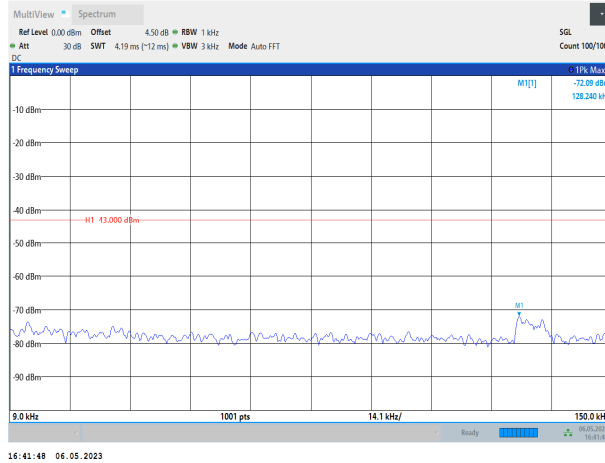
Band IV-1312-1000~20000MHz



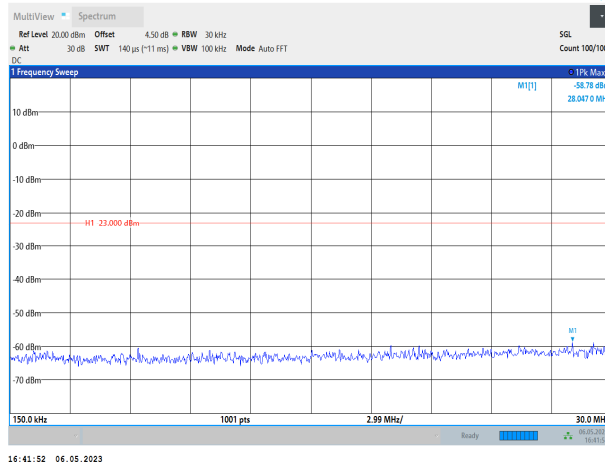
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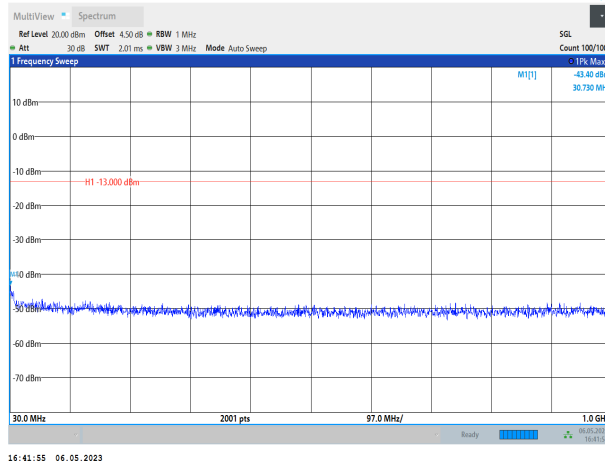
Band IV-1413-0.15~30MHz



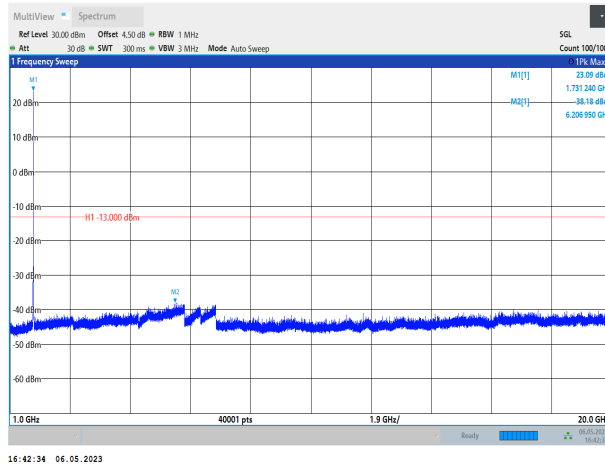
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Band IV-1413-30~1000MHz



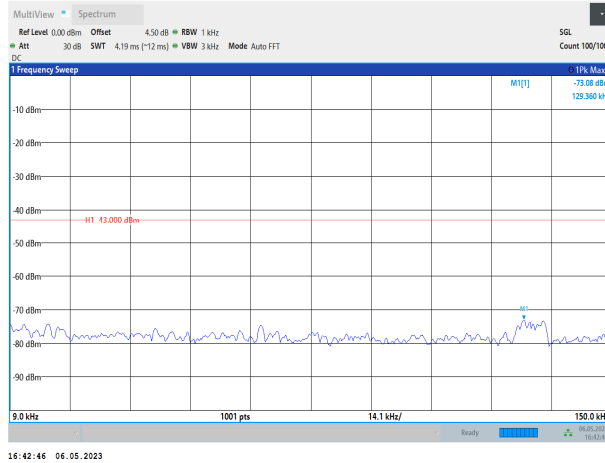
Band IV-1413-1000~20000MHz



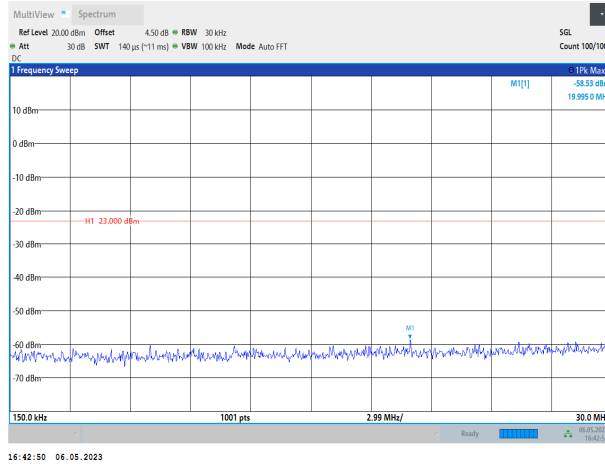
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Band IV-1513-0.009~0.15MHz



Band IV-1513-0.15~30MHz

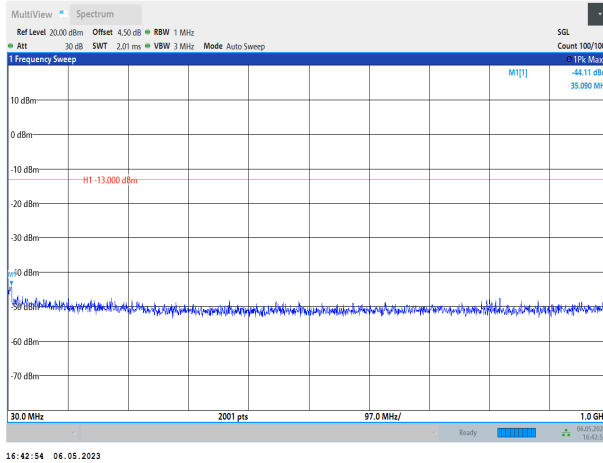


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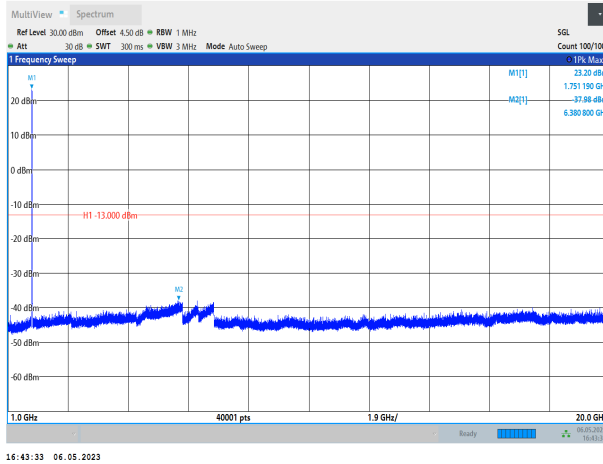
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Band IV-1513-30~1000MHz



Band IV-1513-1000~20000MHz

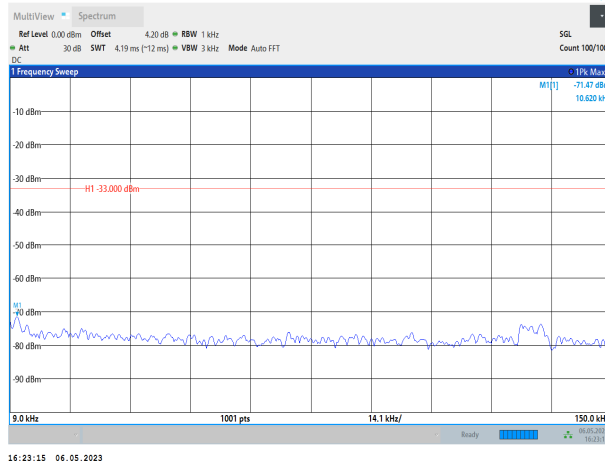


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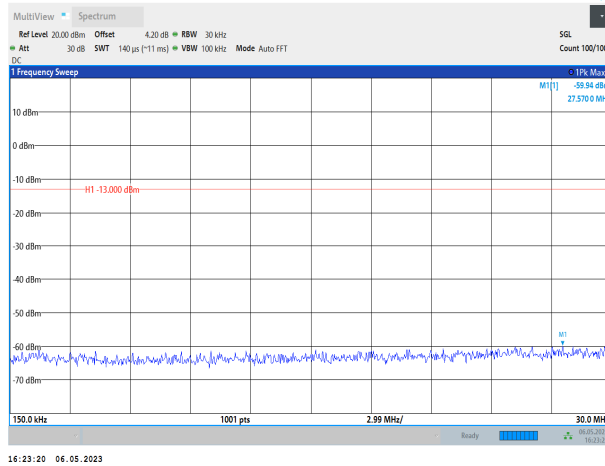
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Band V-4132-0.009~0.15MHz



Band V-4132-0.15~30MHz

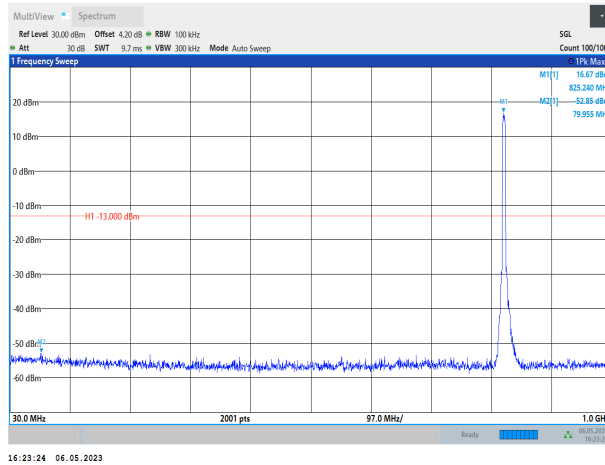


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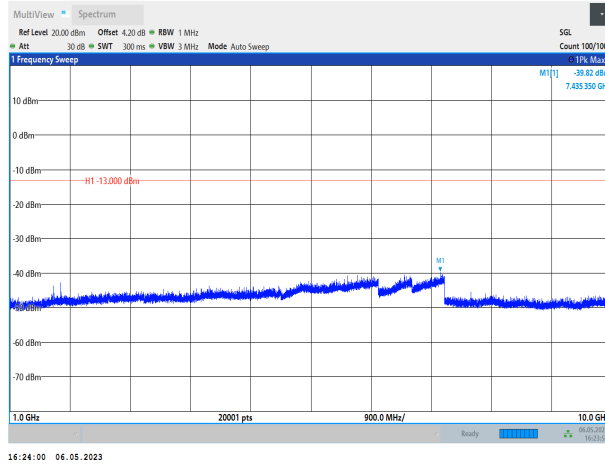
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Band V-4132-30~1000MHz



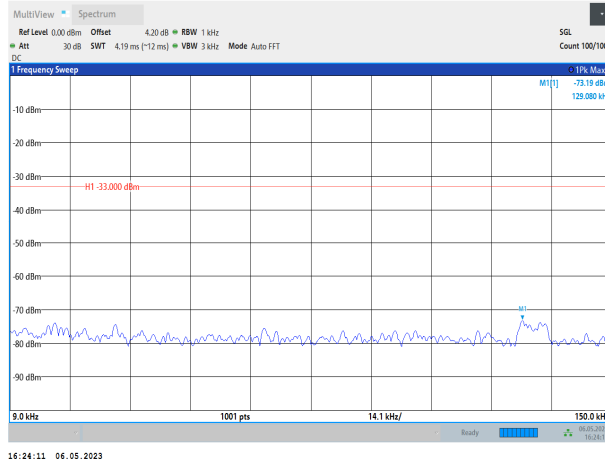
Band V-4132-1000~10000MHz



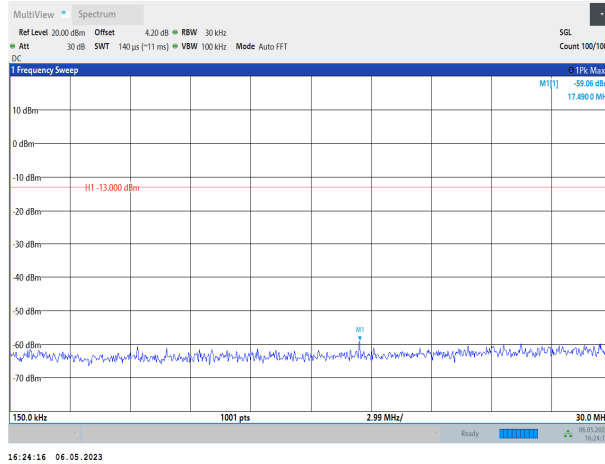
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Band V-4182-0.009~0.15MHz



Band V-4182-0.15~30MHz

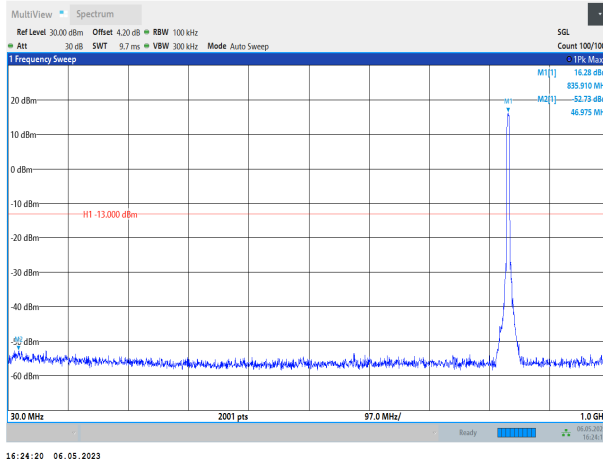


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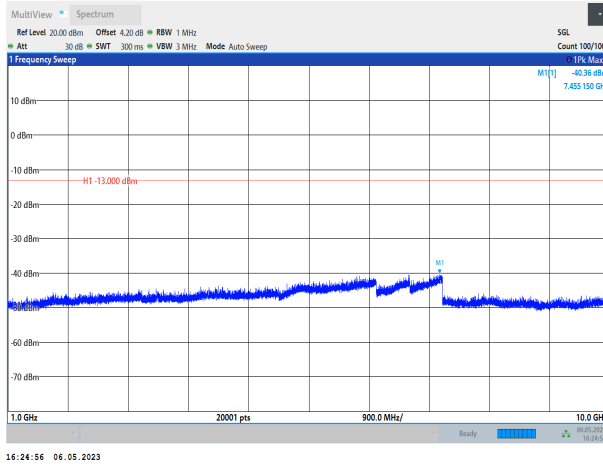
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Band V-4182-30~1000MHz



Band V-4182-1000~10000MHz

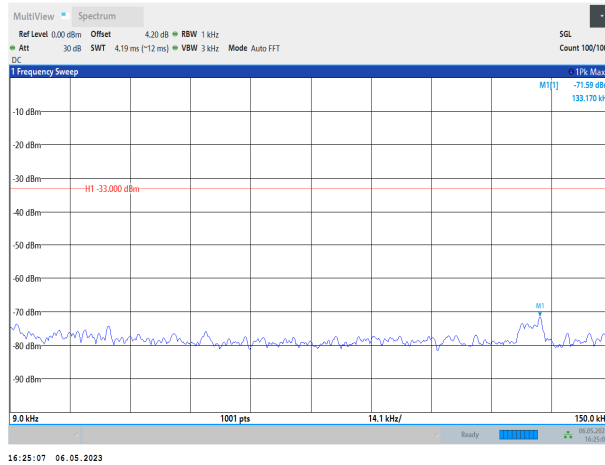


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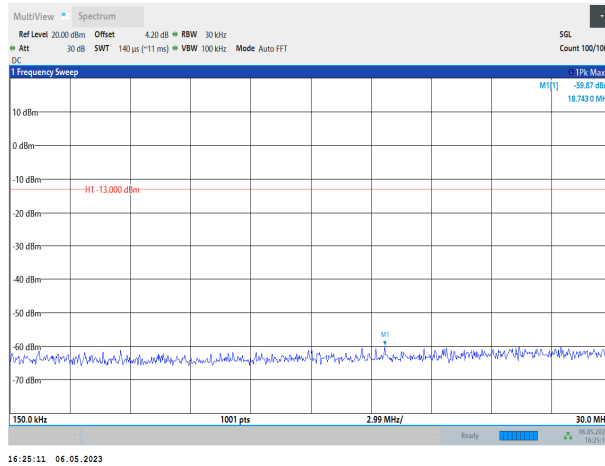
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Band V-4233-0.009~0.15MHz



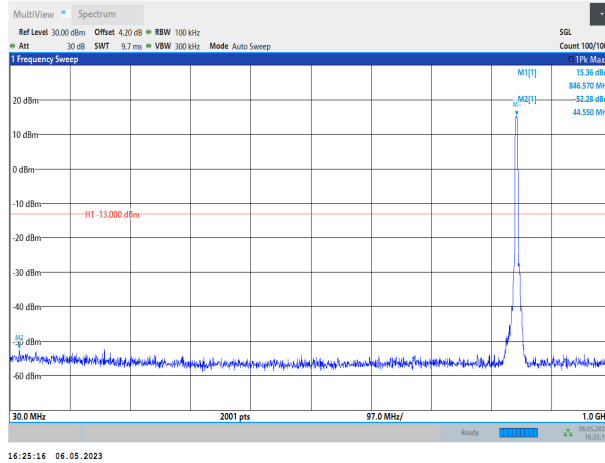
Band V-4233-0.15~30MHz



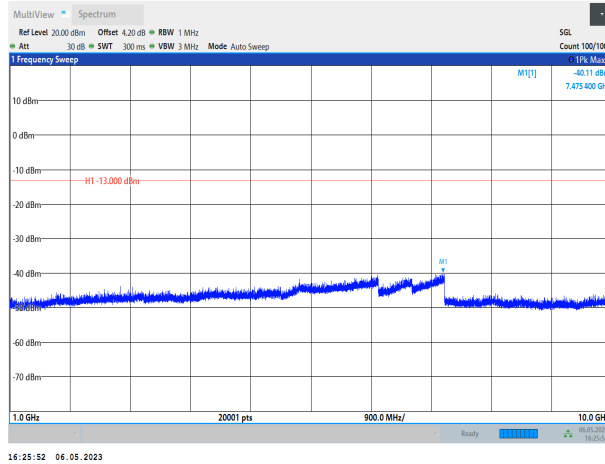
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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ TM1

Test Channel = LOW

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3706.5	56.60	-45.53	29.99	-54.19	-13.00	41.19	142	118	Horizontal
2	5557.2000	42.68	-45.14	32.97	-64.75	-13.00	51.75	136	209	Horizontal
3	7409.6000	42.15	-43.38	36.49	-60.01	-13.00	47.01	258	238	Horizontal
4	9262.0000	37.21	-40.23	38.39	-59.89	-13.00	46.89	186	102	Horizontal
5	11114.4000	34.58	-37.88	39.09	-59.47	-13.00	46.47	126	356	Horizontal
6	14480.25	34.09	-34.83	40.02	-55.98	-13.00	42.98	111	224	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3703.5	49.04	-45.51	29.98	-61.75	-13.00	48.75	186	209	Vertical
2	5557.2000	44.38	-45.14	32.97	-63.05	-13.00	50.05	175	285	Vertical
3	7409.6000	40.63	-43.38	36.49	-61.53	-13.00	48.53	146	0	Vertical
4	9262.0000	38.10	-40.23	38.39	-59.00	-13.00	46.00	149	73	Vertical
5	11114.4000	34.42	-37.88	39.09	-59.63	-13.00	46.63	186	29	Vertical
6	14510.25	34.20	-34.89	40.00	-55.94	-13.00	42.94	310	1	Vertical



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Test Band = WCDMA Band II_ TM1
Test Channel = MID

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3758.25	53.74	-45.74	30.18	-57.08	-13.00	44.08	128	129	Horizontal
2	5640.0000	46.29	-44.98	33.17	-60.79	-13.00	47.79	143	221	Horizontal
3	7520.0000	41.35	-43.10	36.43	-60.58	-13.00	47.58	256	252	Horizontal
4	9400.0000	37.94	-39.83	38.49	-58.66	-13.00	45.66	215	284	Horizontal
5	11280.0000	35.16	-37.41	39.11	-58.40	-13.00	45.40	193	1	Horizontal
6	13715.25	35.51	-36.20	40.04	-55.91	-13.00	42.91	211	221	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3761.25	48.50	-45.76	30.19	-62.33	-13.00	49.33	247	90	Vertical
2	5640.0000	45.40	-44.98	33.17	-61.68	-13.00	48.68	186	2	Vertical
3	7520.0000	40.62	-43.10	36.43	-61.31	-13.00	48.31	142	285	Vertical
4	9400.0000	37.71	-39.83	38.49	-58.89	-13.00	45.89	156	196	Vertical
5	11280.0000	34.63	-37.41	39.11	-58.93	-13.00	45.93	236	104	Vertical
6	13756.5	35.18	-36.30	40.00	-56.37	-13.00	43.37	291	165	Vertical



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Test Band = WCDMA Band II_ TM1
Test Channel = HIGH

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3816.75	56.64	-45.98	30.37	-54.23	-13.00	41.23	241	224	Horizontal
2	5725.5	51.46	-44.82	33.48	-55.15	-13.00	42.15	186	224	Horizontal
3	7520.0000	38.96	-43.10	36.43	-62.97	-13.00	49.97	136	356	Horizontal
4	9400.0000	36.59	-39.83	38.49	-60.01	-13.00	47.01	259	252	Horizontal
5	11280.0000	34.05	-37.41	39.11	-59.51	-13.00	46.51	219	356	Horizontal
6	14337.75	34.25	-35.65	40.13	-56.53	-13.00	43.53	175	0	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3813.75	50.36	-45.97	30.36	-60.51	-13.00	47.51	241	91	Vertical
2	5719.5	50.28	-44.83	33.46	-56.35	-13.00	43.35	156	0	Vertical
3	7520.0000	39.09	-43.10	36.43	-62.84	-13.00	49.84	235	60	Vertical
4	9400.0000	37.04	-39.83	38.49	-59.56	-13.00	46.56	188	180	Vertical
5	11280.0000	35.31	-37.41	39.11	-58.25	-13.00	45.25	175	44	Vertical
6	13710	35.25	-36.18	40.05	-56.15	-13.00	43.15	169	60	Vertical



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Test Band = WCDMA Band IV_ TM1
Test Channel = LOW

Table with 11 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

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Test Band = WCDMA Band IV_ TM1
Test Channel = MID

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Test Band = WCDMA Band IV_ TM1
Test Channel = HIGH

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Test Band = WCDMA Band V _ TM1
Test Channel = LOW

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.8571	47.18	-48.22	25.37	-70.93	-13.00	57.93	109	277	Horizontal
2	2479.2000	43.04	-47.31	27.70	-71.82	-13.00	58.82	215	360	Horizontal
3	3305.6000	43.00	-46.67	29.55	-69.38	-13.00	56.38	187	118	Horizontal
4	4132.0000	41.59	-45.92	31.00	-68.59	-13.00	55.59	221	290	Horizontal
5	4958.4000	42.04	-45.72	32.76	-66.17	-13.00	53.17	196	171	Horizontal
6	5954.2857	42.57	-44.68	34.04	-63.32	-13.00	50.32	285	305	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8000	44.49	-48.22	25.37	-73.61	-13.00	60.61	215	222	Vertical
2	2479.2000	44.04	-47.31	27.70	-70.82	-13.00	57.82	147	32	Vertical
3	3305.6000	42.75	-46.67	29.55	-69.63	-13.00	56.63	231	180	Vertical
4	4132.0000	42.01	-45.92	31.00	-68.17	-13.00	55.17	159	251	Vertical
5	4958.4000	41.56	-45.72	32.76	-66.65	-13.00	53.65	148	208	Vertical
6	7408.5714	41.64	-43.27	36.49	-60.41	-13.00	47.41	129	0	Vertical



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Test Band = WCDMA Band V _ TM1
Test Channel = MID

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1671.4286	46.94	-48.19	25.38	-71.14	-13.00	58.14	187	335	Horizontal
2	2509.2000	43.60	-47.24	27.80	-71.09	-13.00	58.09	214	335	Horizontal
3	3345.6000	42.97	-46.62	29.50	-69.41	-13.00	56.41	296	39	Horizontal
4	4182.0000	41.07	-45.95	31.07	-69.07	-13.00	56.07	158	352	Horizontal
5	5018.4000	40.96	-45.73	32.89	-67.14	-13.00	54.14	213	214	Horizontal
6	7001.1429	41.17	-43.58	36.08	-61.58	-13.00	48.58	156	253	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	44.58	-48.19	25.38	-73.49	-13.00	60.49	103	267	Vertical
2	2509.2000	43.53	-47.24	27.80	-71.16	-13.00	58.16	256	357	Vertical
3	3345.6000	43.09	-46.62	29.50	-69.29	-13.00	56.29	188	201	Vertical
4	4182.0000	41.75	-45.95	31.07	-68.39	-13.00	55.39	223	25	Vertical
5	5018.4000	41.17	-45.73	32.89	-66.93	-13.00	53.93	159	53	Vertical
6	7401.1429	41.73	-43.26	36.49	-60.30	-13.00	47.30	214	357	Vertical



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Test Band = WCDMA Band V _ TM1
Test Channel = HIGH

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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

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	-7.45	-0.003963	PASS
Band II	9400	VN	NT	-4.90	-0.002606	PASS
Band II	9400	VH	NT	-10.62	-0.005649	PASS
Band IV	1413	VL	NT	-11.85	-0.006839	PASS
Band IV	1413	VN	NT	-14.03	-0.008098	PASS
Band IV	1413	VH	NT	-11.56	-0.006672	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-9.48	-0.011334	±2.5	PASS
Band V	4182	VN	NT	-12.78	-0.015280	±2.5	PASS
Band V	4182	VH	NT	-7.43	-0.008883	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	-9.68	-0.005149	PASS
Band II	9400	NV	-20	-10.25	-0.005452	PASS
Band II	9400	NV	-10	-7.46	-0.006783	PASS
Band II	9400	NV	0	-8.19	-0.004356	PASS
Band II	9400	NV	10	-6.03	-0.003207	PASS
Band II	9400	NV	20	-10.72	-0.005702	PASS
Band II	9400	NV	30	-8.88	-0.004723	PASS
Band II	9400	NV	40	-11.64	-0.006191	PASS
Band II	9400	NV	50	-10.97	-0.005835	PASS
Band IV	1413	NV	-30	-13.43	-0.007751	PASS
Band IV	1413	NV	-20	-12.18	-0.007030	PASS
Band IV	1413	NV	-10	-8.36	-0.087431	PASS
Band IV	1413	NV	0	-15.35	-0.008860	PASS
Band IV	1413	NV	10	-13.21	-0.007624	PASS
Band IV	1413	NV	20	-9.67	-0.005581	PASS
Band IV	1413	NV	30	-8.46	-0.004883	PASS
Band IV	1413	NV	40	-8.61	-0.004969	PASS
Band IV	1413	NV	50	-13.43	-0.007751	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-11.06	-0.013223	±2.5	PASS
Band V	4182	NV	-20	-8.55	-0.010222	±2.5	PASS
Band V	4182	NV	-10	-13.30	-0.016798	±2.5	PASS
Band V	4182	NV	0	-12.90	-0.015423	±2.5	PASS
Band V	4182	NV	10	-7.25	-0.008668	±2.5	PASS
Band V	4182	NV	20	-13.39	-0.016009	±2.5	PASS
Band V	4182	NV	30	-6.50	-0.007771	±2.5	PASS
Band V	4182	NV	40	-13.12	-0.015686	±2.5	PASS
Band V	4182	NV	50	-4.61	-0.005512	±2.5	PASS

---End of Attachment---



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