

Effective (Isotropic) Radiated Power Output Data

Test Result

Select the higher-powered ANT 1 as the final data.

Test Result(WCDMA)

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	23.17	23.11	33	PASS
Band2	9400	23.21	23.15	33	PASS
Band2	9538	23.77	23.71	33	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	-999	22.33	22.27	33	PASS
Band2	9400	-999	22.24	22.18	33	PASS
Band2	9538	-999	22.31	22.25	33	PASS

Test Result(HSUPA)

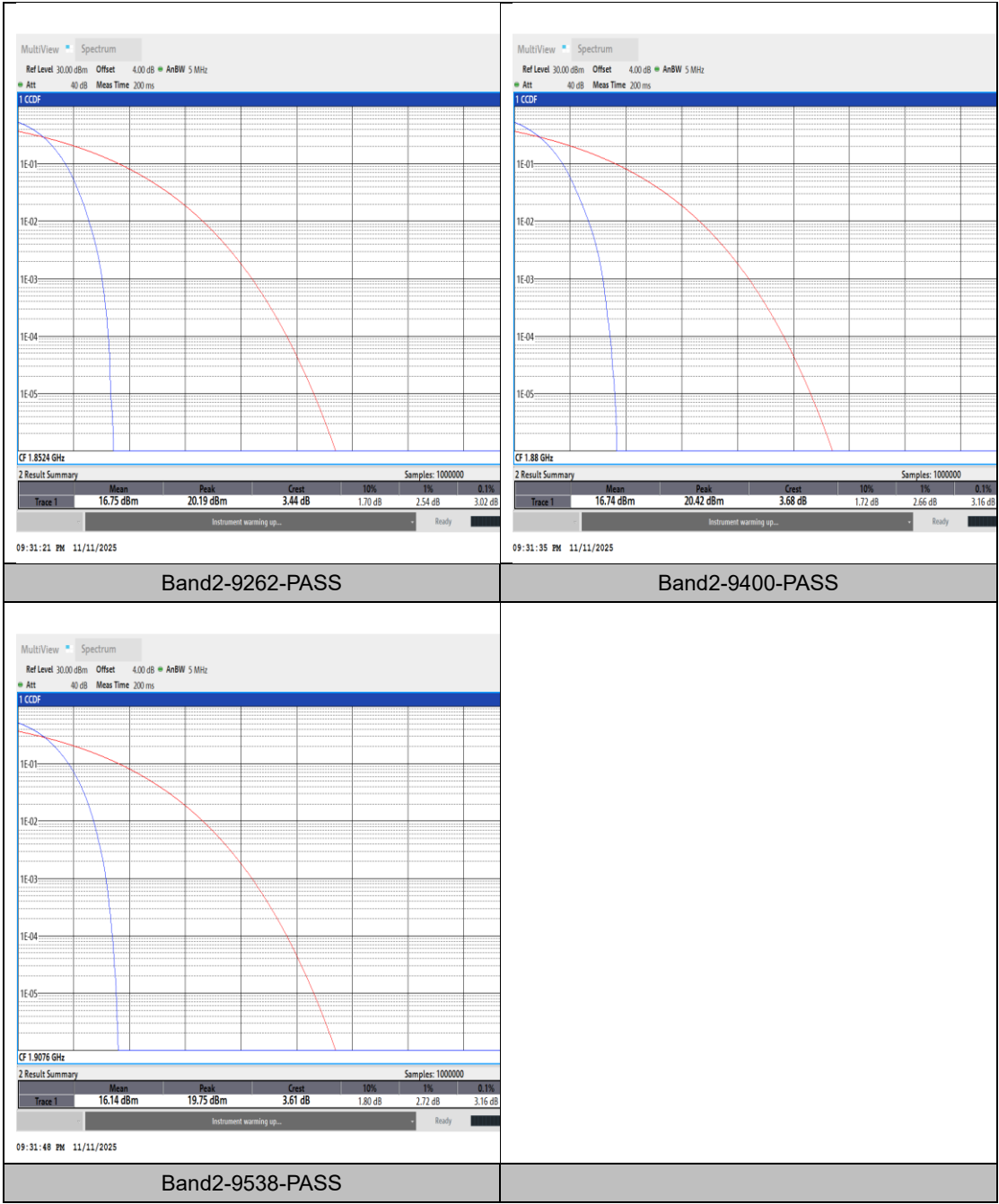
Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	-999	19.60	19.54	33	PASS
Band2	9400	-999	19.57	19.51	33	PASS
Band2	9538	-999	19.74	19.68	33	PASS

Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.02	13	PASS
Band2	9400	3.16	13	PASS
Band2	9538	3.16	13	PASS

Test Graphs

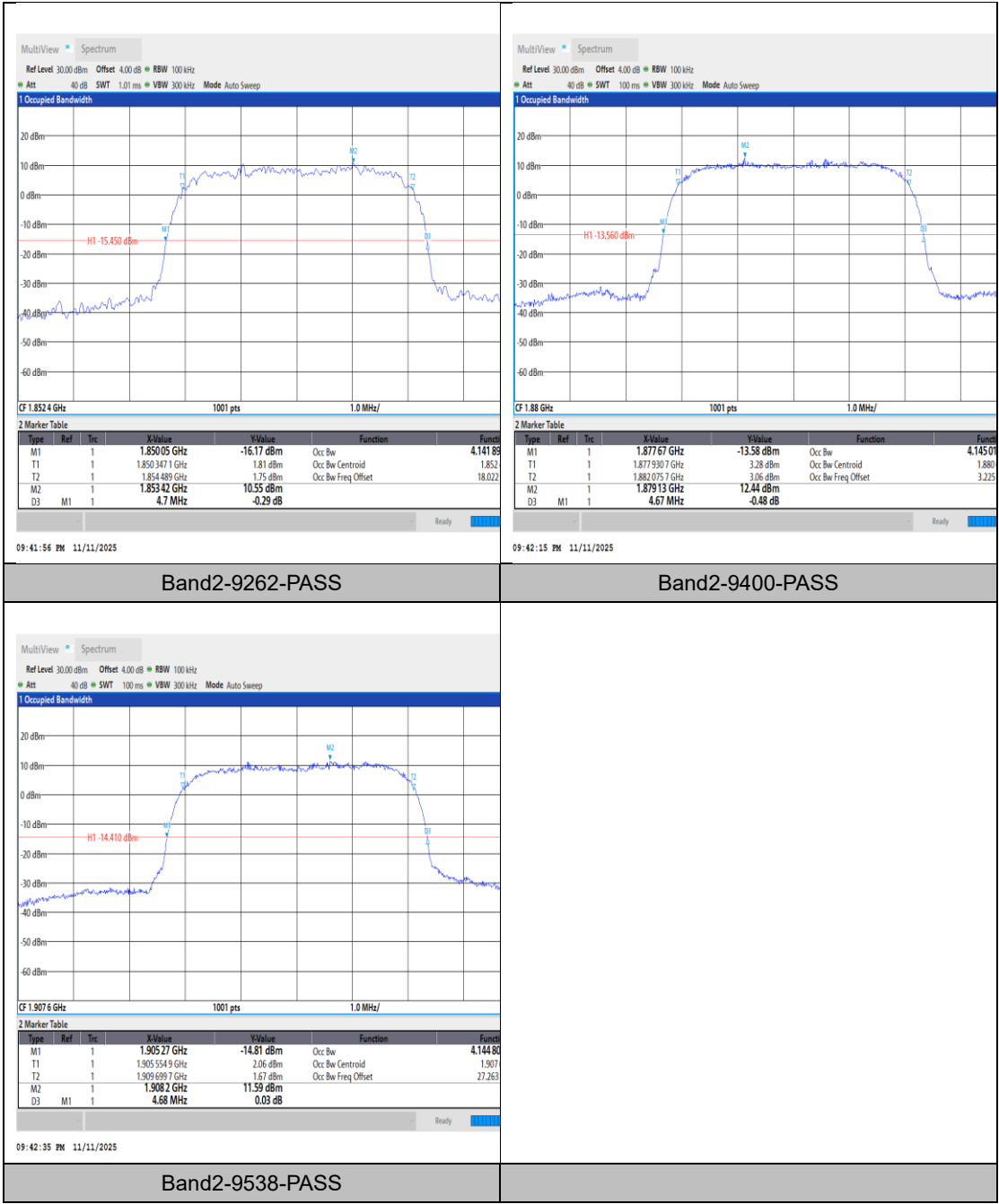


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.142	4.70	---	PASS
Band2	9400	4.145	4.67	---	PASS
Band2	9538	4.145	4.68	---	PASS

Test Graphs

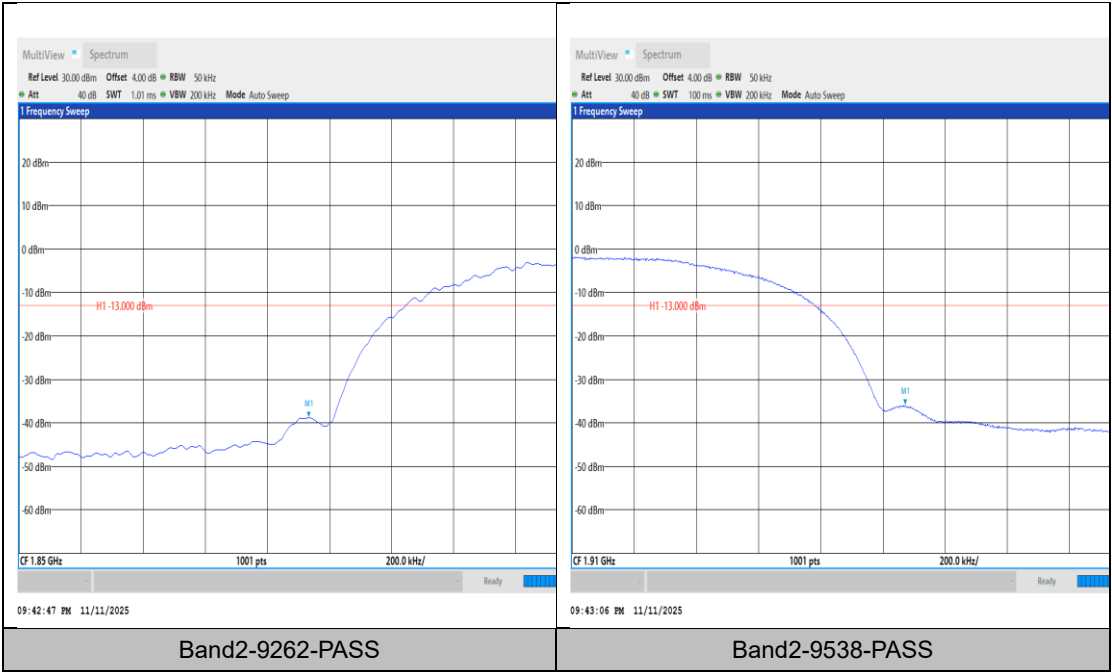


Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.93	-38.77	-13	PASS
Band2	9538	1910.07	-35.93	-13	PASS

Test Graphs

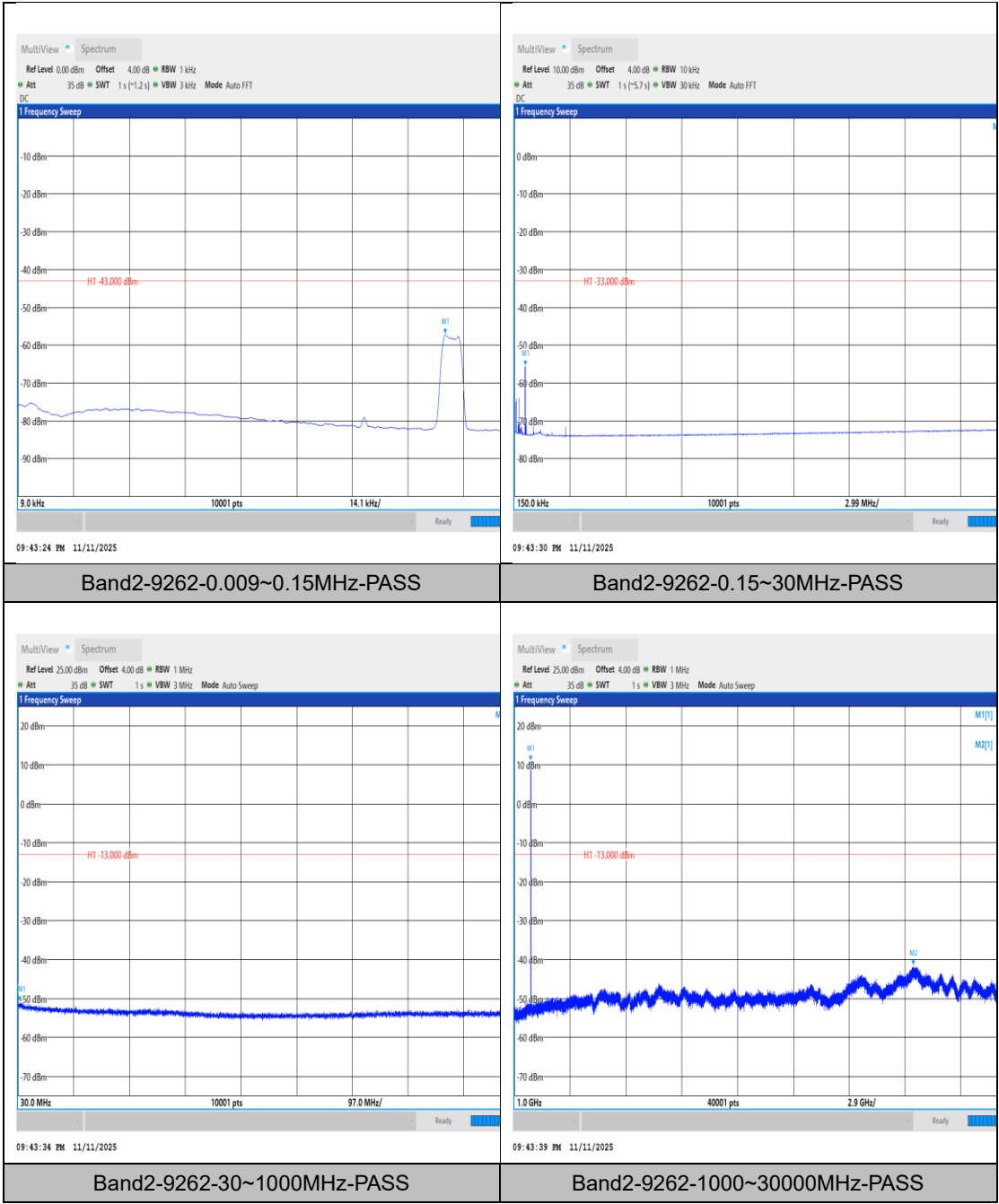


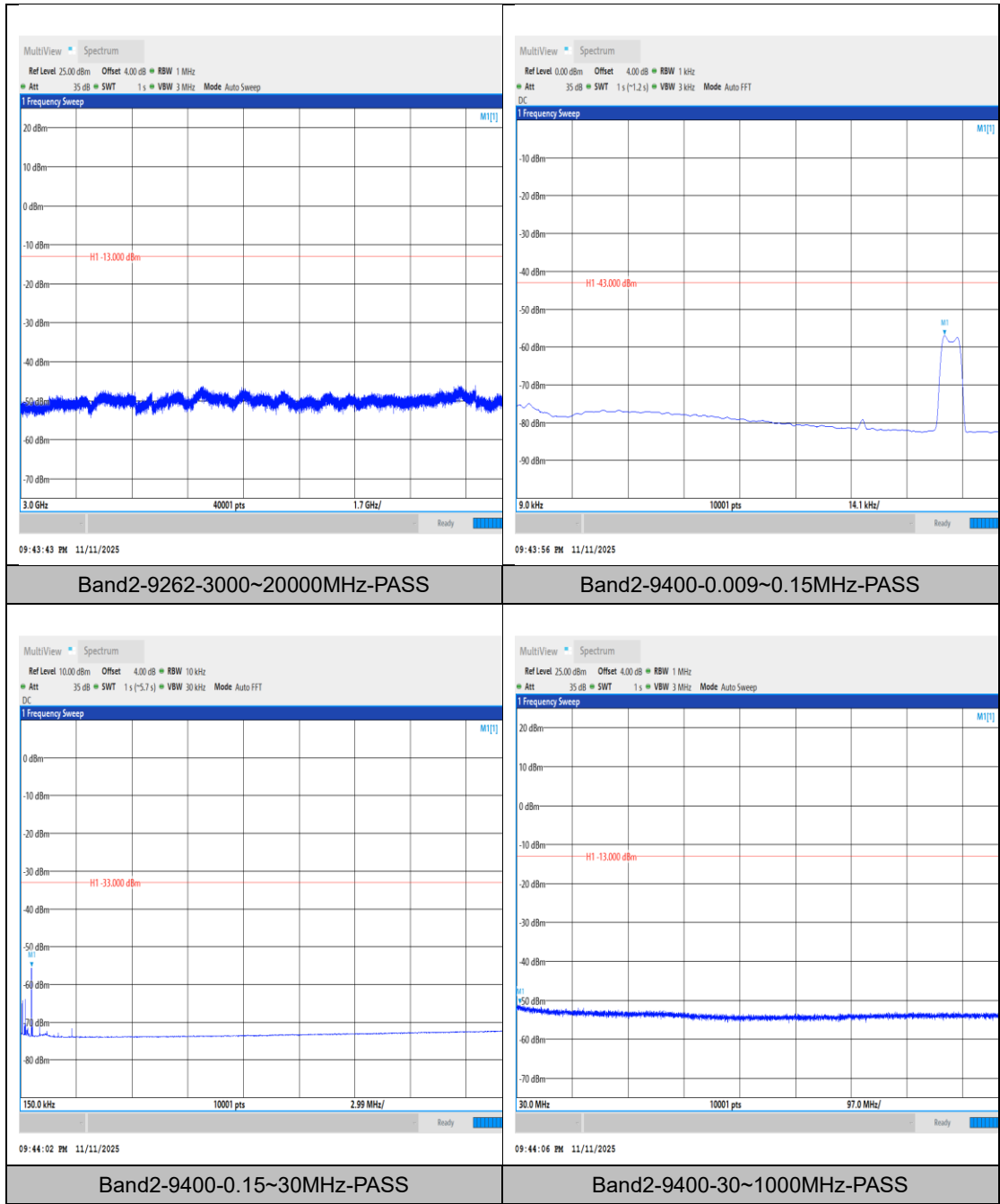
Conducted Spurious Emission

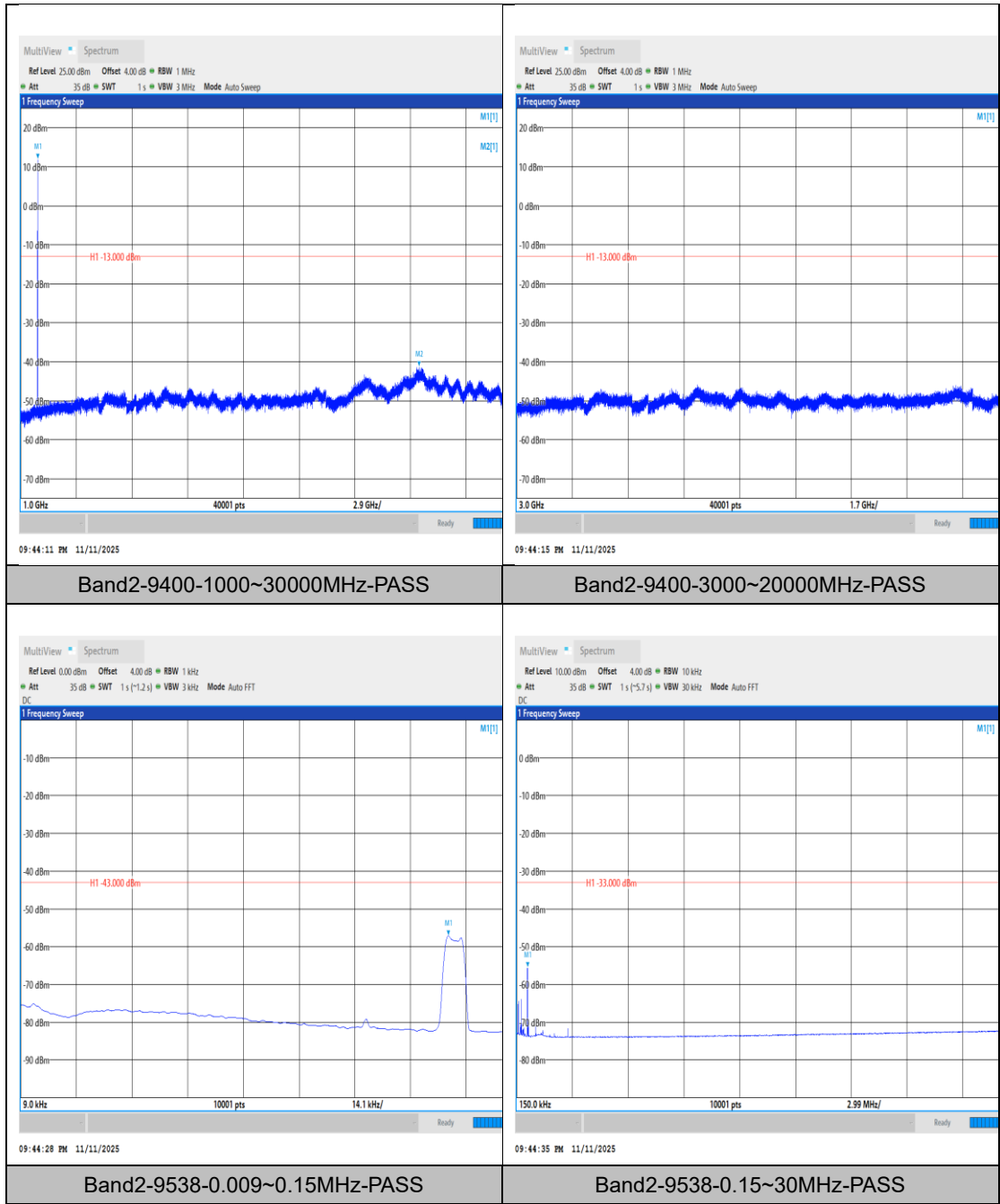
Test Result

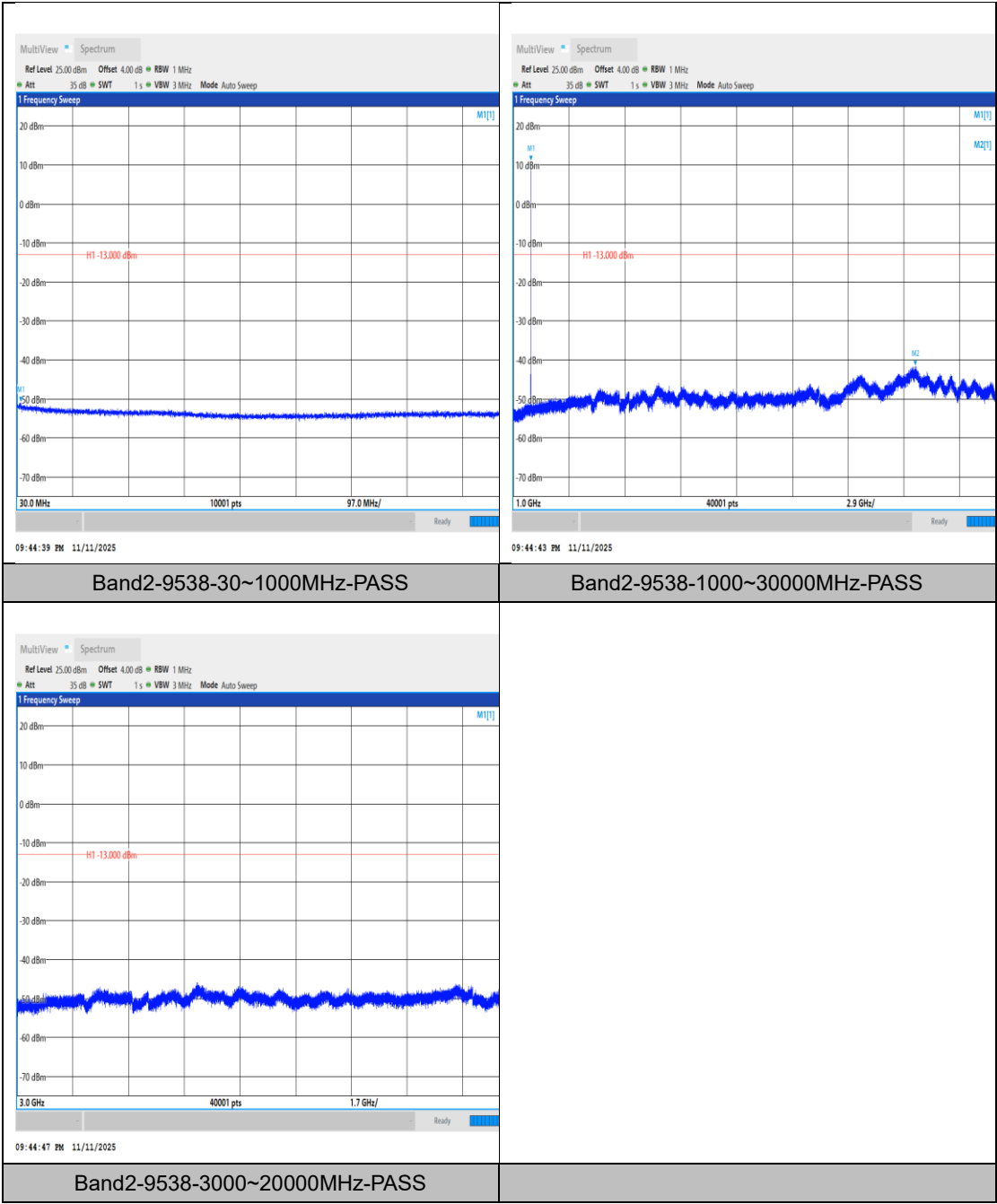
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.12	-57.13	-43	PASS
Band2	9262	0.15~30MHz	0.72	-55.6	-33	PASS
Band2	9262	30~1000MHz	32.96	-50.86	-13	PASS
Band2	9262	1000~30000MHz	21727.75	-41.67	-13	PASS
Band2	9262	3000~20000MHz	19054.61	-43.02	-13	PASS
Band2	9400	0.009~0.15MHz	0.12	-56.94	-43	PASS
Band2	9400	0.15~30MHz	0.72	-55.61	-33	PASS
Band2	9400	30~1000MHz	35.67	-50.99	-13	PASS
Band2	9400	1000~30000MHz	21755.3	-41.34	-13	PASS
Band2	9400	3000~20000MHz	19048.24	-42.82	-13	PASS
Band2	9538	0.009~0.15MHz	0.12	-57.09	-43	PASS
Band2	9538	0.15~30MHz	0.72	-55.61	-33	PASS
Band2	9538	30~1000MHz	35.77	-50.81	-13	PASS
Band2	9538	1000~30000MHz	21901.03	-41.54	-13	PASS
Band2	9538	3000~20000MHz	19041.44	-43.14	-13	PASS

Test Graphs









Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VN	NT	16600.00	8.961347	±NA	PASS
Band2	9262	VL	NT	14200.00	7.665731	±NA	PASS
Band2	9262	VH	NT	12100.00	6.532067	±NA	PASS
Band2	9400	VN	NT	7450.00	3.962766	±NA	PASS
Band2	9400	VL	NT	5600.00	2.978723	±NA	PASS
Band2	9400	VH	NT	5150.00	2.739362	±NA	PASS
Band2	9538	VN	NT	24100.00	12.633676	±NA	PASS
Band2	9538	VL	NT	25300.00	13.262739	±NA	PASS
Band2	9538	VH	NT	21050.00	11.034808	±NA	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	15600.00	8.421507	±NA	PASS
Band2	9262	NV	-20	15500.00	8.367523	±NA	PASS
Band2	9262	NV	-10	14100.00	7.611747	±NA	PASS
Band2	9262	NV	0	14950.00	8.070611	±NA	PASS
Band2	9262	NV	10	14450.00	7.800691	±NA	PASS
Band2	9262	NV	20	12350.00	6.667027	±NA	PASS
Band2	9262	NV	30	10750.00	5.803282	±NA	PASS
Band2	9262	NV	40	15300.00	8.259555	±NA	PASS
Band2	9262	NV	50	11500.00	6.208162	±NA	PASS
Band2	9400	NV	-30	8650.00	4.601064	±NA	PASS
Band2	9400	NV	-20	6400.00	3.404255	±NA	PASS
Band2	9400	NV	-10	5000.00	2.659574	±NA	PASS
Band2	9400	NV	0	4850.00	2.579787	±NA	PASS
Band2	9400	NV	10	8350.00	4.441489	±NA	PASS
Band2	9400	NV	20	7350.00	3.909574	±NA	PASS
Band2	9400	NV	30	6300.00	3.351064	±NA	PASS
Band2	9400	NV	40	4200.00	2.234043	±NA	PASS
Band2	9400	NV	50	4600.00	2.446809	±NA	PASS
Band2	9538	NV	-30	25850.00	13.551059	±NA	PASS
Band2	9538	NV	-20	29900.00	15.674146	±NA	PASS
Band2	9538	NV	-10	22600.00	11.847347	±NA	PASS
Band2	9538	NV	0	27000.00	14.153911	±NA	PASS

Band2	9538	NV	10	27800.00	14.573286	±NA	PASS
Band2	9538	NV	20	28050.00	14.704341	±NA	PASS
Band2	9538	NV	30	27250.00	14.284965	±NA	PASS
Band2	9538	NV	40	25950.00	13.603481	±NA	PASS
Band2	9538	NV	50	28700.00	15.045083	±NA	PASS

Effective (Isotropic) Radiated Power Output Data

Test Result

Select the higher-powered ANT 1 as the final data.

Test Result(WCDMA)

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	22.35	21.86	30	PASS
Band4	1413	22.42	21.93	30	PASS
Band4	1513	22.70	22.21	30	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	-999	22.29	21.8	30	PASS
Band4	1413	-999	22.05	21.56	30	PASS
Band4	1513	-999	22.18	21.69	30	PASS

Test Result(HSUPA)

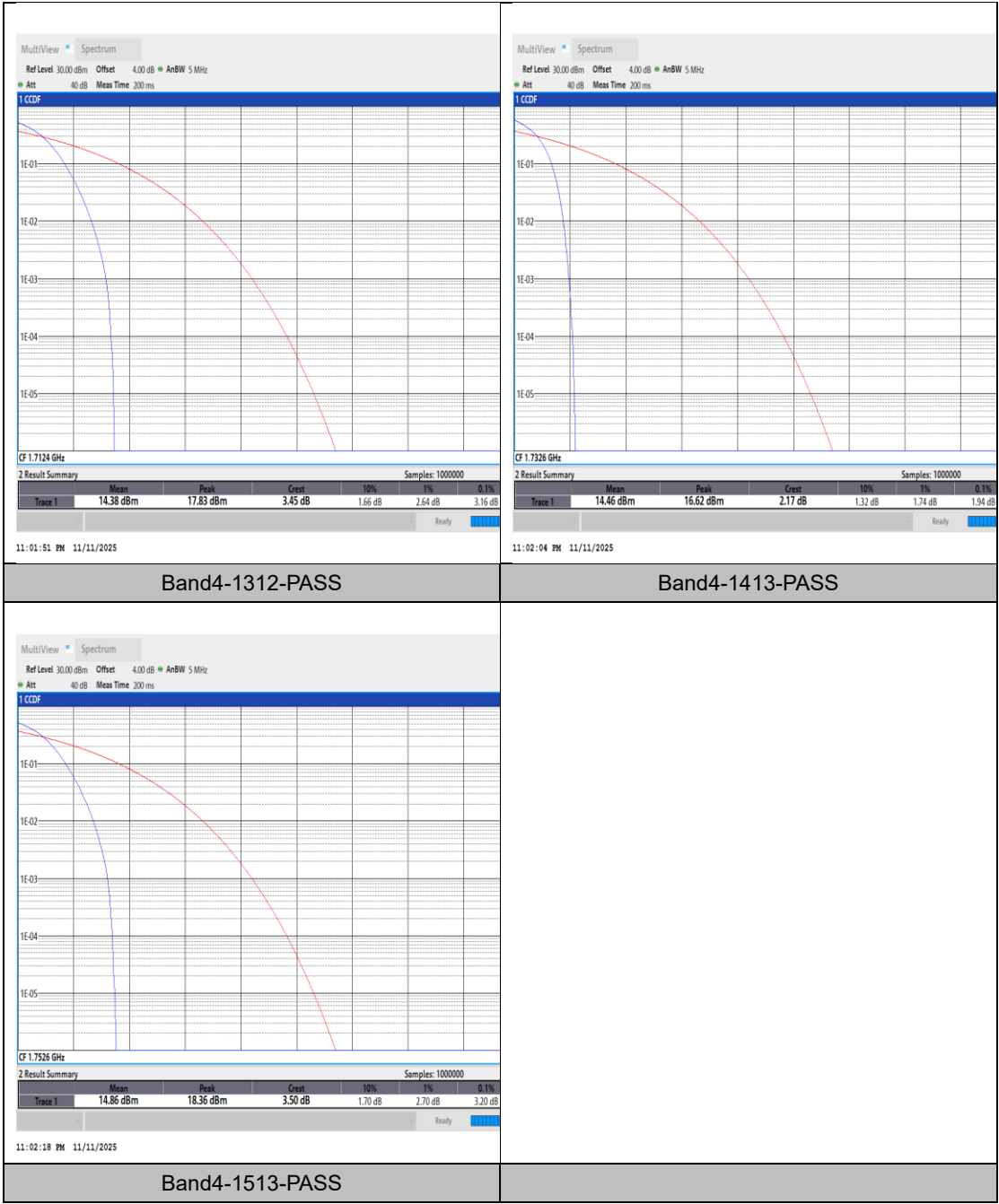
Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	-999	19.81	19.32	30	PASS
Band4	1413	-999	19.68	19.19	30	PASS
Band4	1513	-999	19.90	19.41	30	PASS

Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	3.16	13	PASS
Band4	1413	1.94	13	PASS
Band4	1513	3.2	13	PASS

Test Graphs

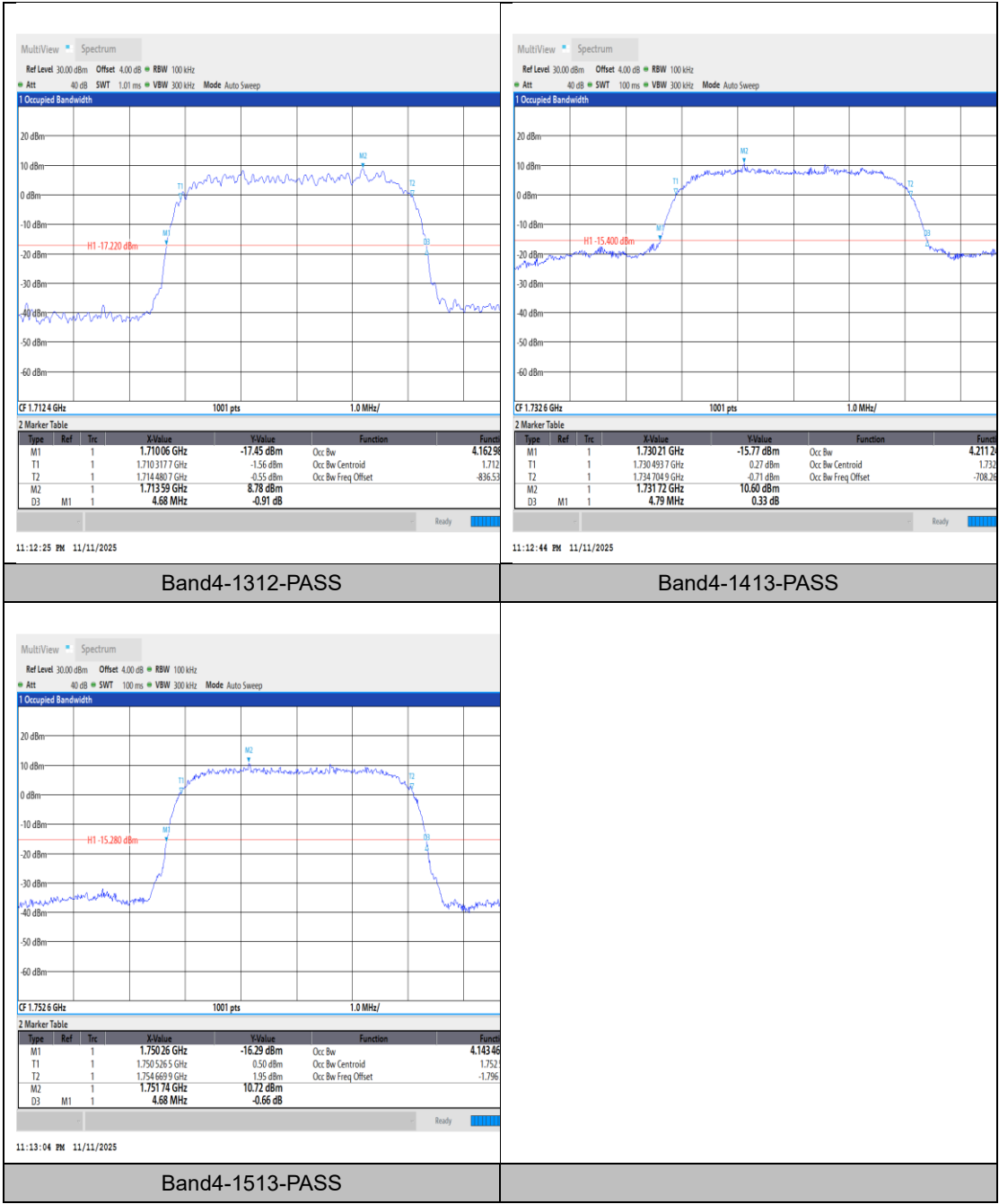


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.163	4.68	---	PASS
Band4	1413	4.211	4.79	---	PASS
Band4	1513	4.143	4.68	---	PASS

Test Graphs

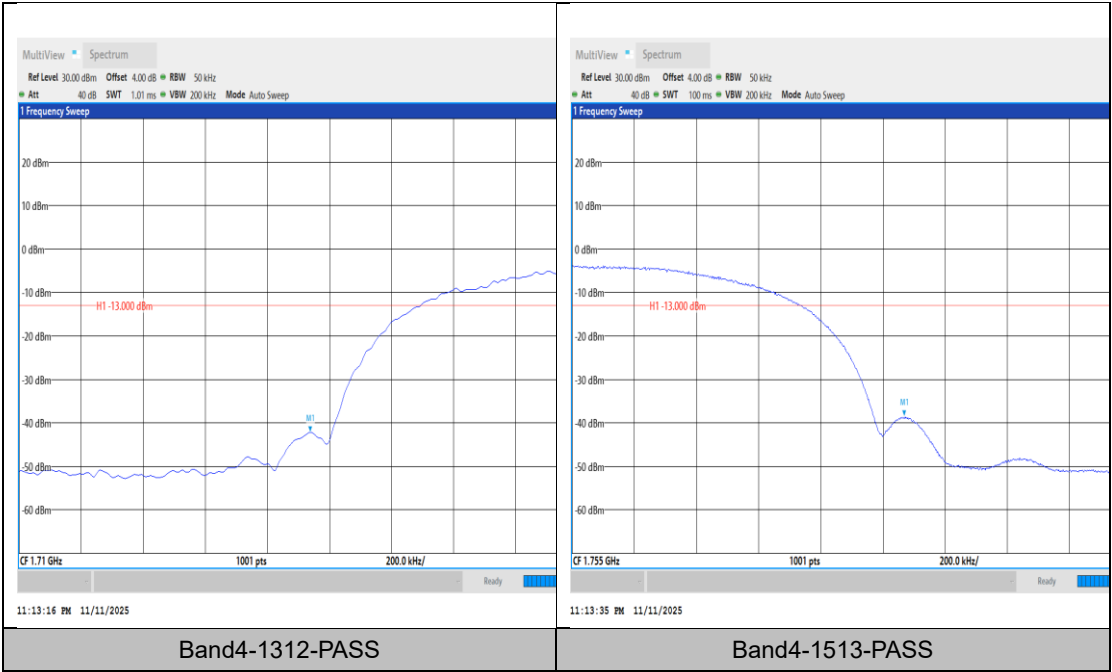


Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.94	-42.14	-13	PASS
Band4	1513	1755.07	-38.56	-13	PASS

Test Graphs

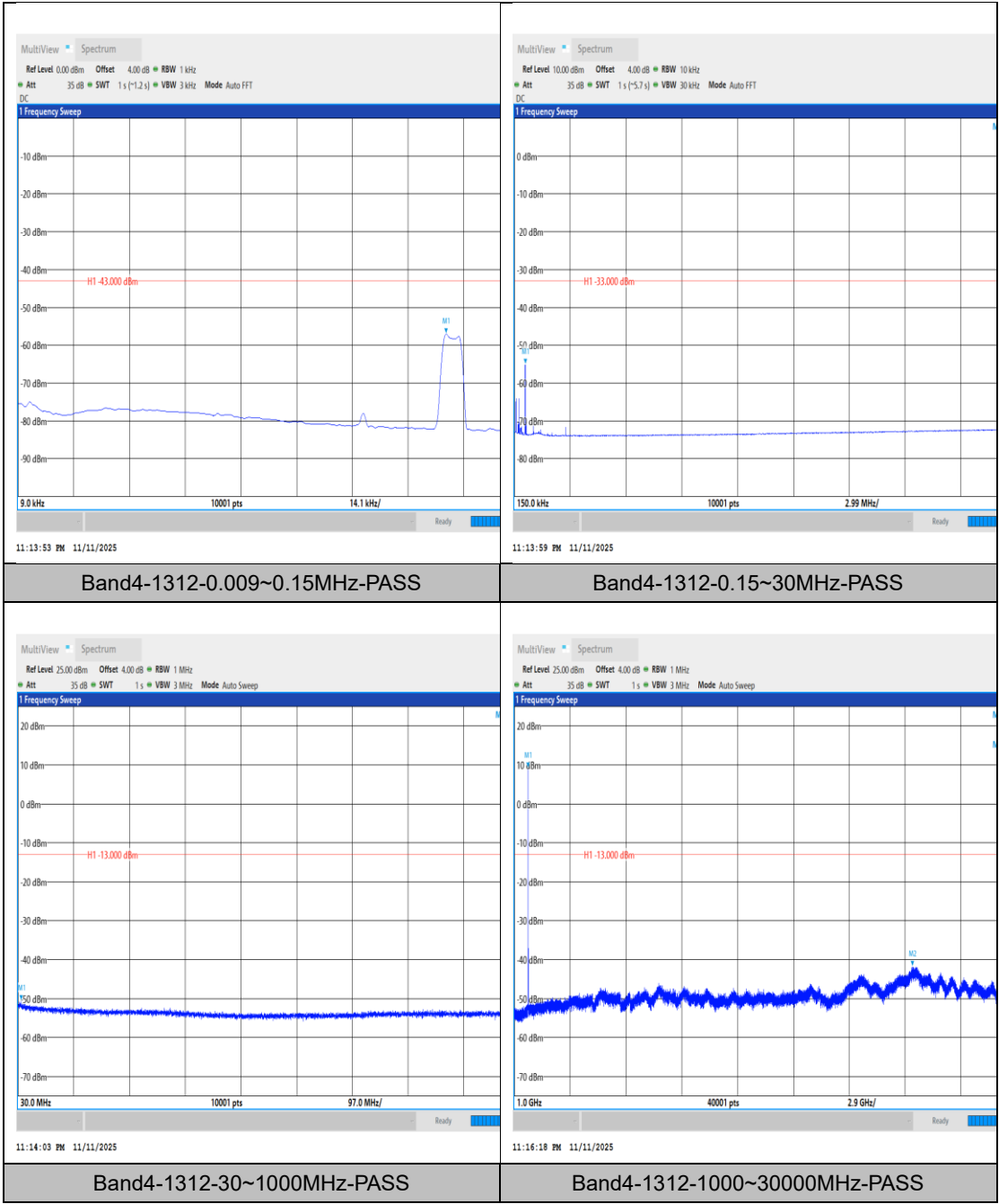


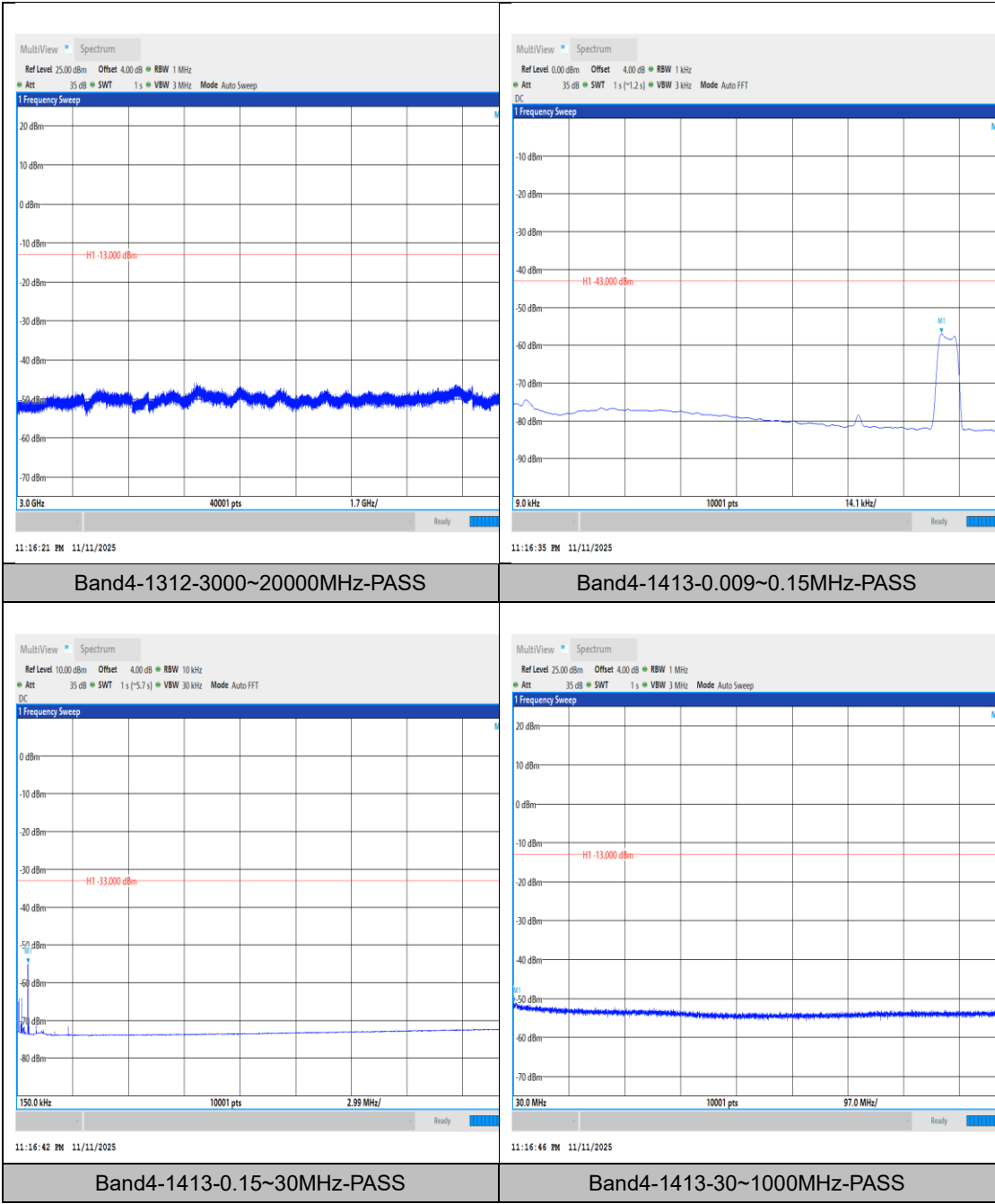
Conducted Spurious Emission

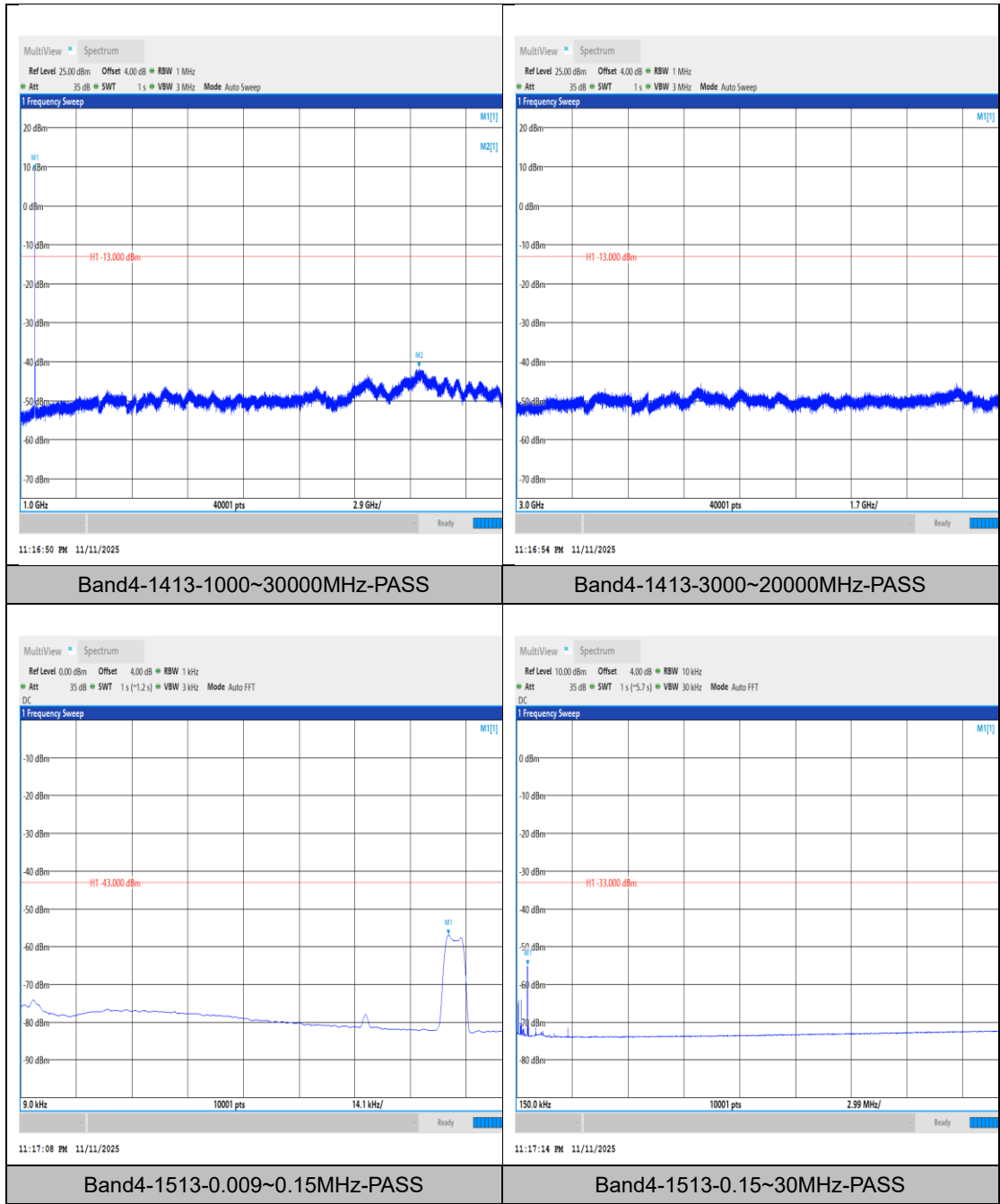
Test Result

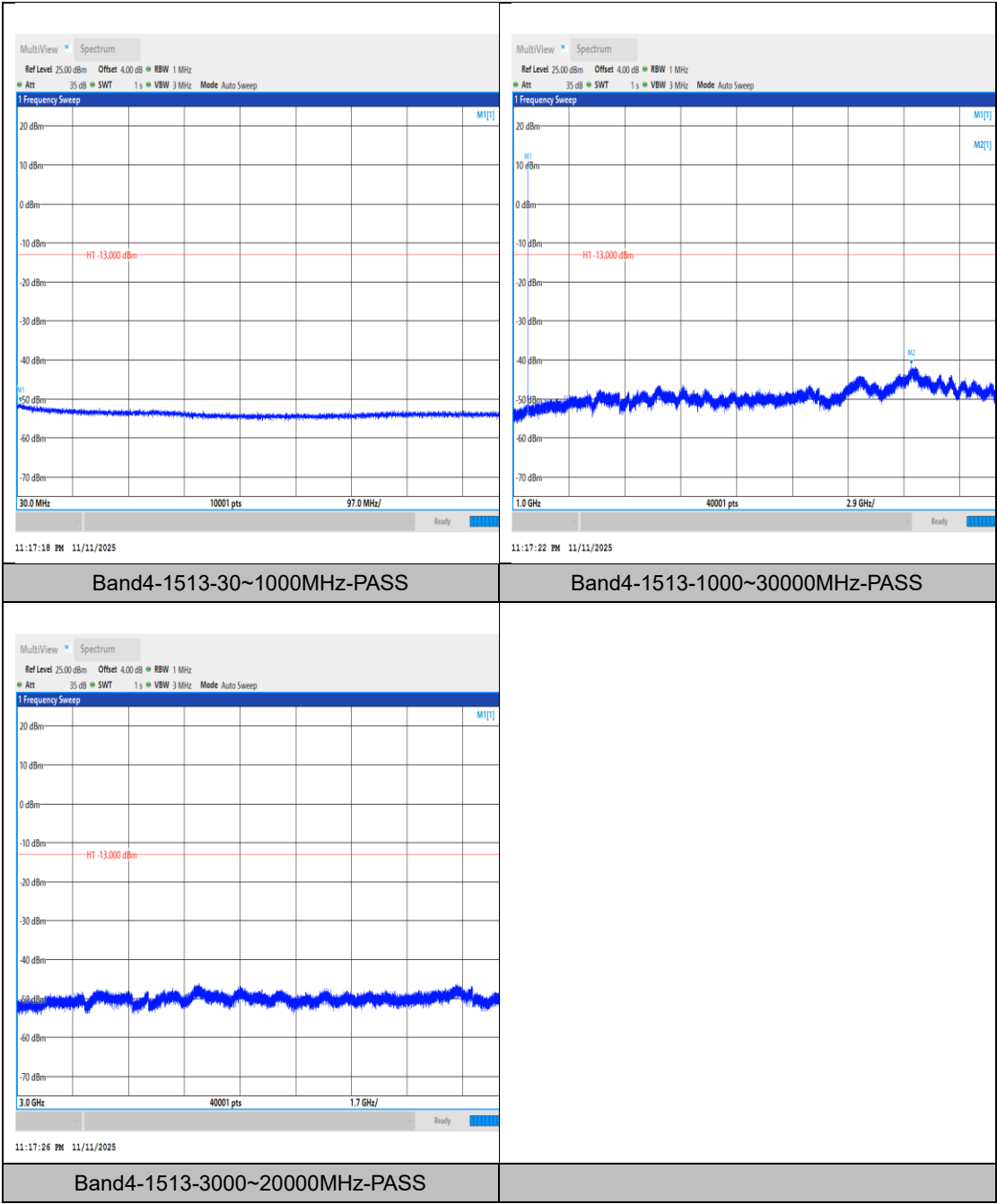
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.12	-57	-43	PASS
Band4	1312	0.15~30MHz	0.72	-55.13	-33	PASS
Band4	1312	30~1000MHz	35.19	-50.62	-13	PASS
Band4	1312	1000~30000MHz	21674.83	-41.82	-13	PASS
Band4	1312	3000~20000MHz	19052.91	-43.09	-13	PASS
Band4	1413	0.009~0.15MHz	0.12	-56.99	-43	PASS
Band4	1413	0.15~30MHz	0.72	-55.03	-33	PASS
Band4	1413	30~1000MHz	30.63	-51.12	-13	PASS
Band4	1413	1000~30000MHz	21751.68	-41.69	-13	PASS
Band4	1413	3000~20000MHz	18918.19	-43.47	-13	PASS
Band4	1513	0.009~0.15MHz	0.12	-56.95	-43	PASS
Band4	1513	0.15~30MHz	0.72	-55.06	-33	PASS
Band4	1513	30~1000MHz	35.19	-51.06	-13	PASS
Band4	1513	1000~30000MHz	21684.98	-41.5	-13	PASS
Band4	1513	3000~20000MHz	19026.14	-43.33	-13	PASS

Test Graphs









Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VN	NT	7850.00	4.584209	±NA	PASS
Band4	1312	VL	NT	7050.00	4.117029	±NA	PASS
Band4	1312	VH	NT	8800.00	5.138986	±NA	PASS
Band4	1413	VN	NT	-1700.00	-0.981184	±NA	PASS
Band4	1413	VL	NT	1500.00	0.865751	±NA	PASS
Band4	1413	VH	NT	2150.00	1.240910	±NA	PASS
Band4	1513	VN	NT	-650.00	-0.370878	±NA	PASS
Band4	1513	VL	NT	-3400.00	-1.939975	±NA	PASS
Band4	1513	VH	NT	-4500.00	-2.567614	±NA	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	7100.00	4.146228	±NA	PASS
Band4	1312	NV	-20	9150.00	5.343378	±NA	PASS
Band4	1312	NV	-10	8500.00	4.963794	±NA	PASS
Band4	1312	NV	0	9150.00	5.343378	±NA	PASS
Band4	1312	NV	10	10100.00	5.898155	±NA	PASS
Band4	1312	NV	20	5250.00	3.065872	±NA	PASS
Band4	1312	NV	30	6600.00	3.854240	±NA	PASS
Band4	1312	NV	40	9100.00	5.314179	±NA	PASS
Band4	1312	NV	50	4700.00	2.744686	±NA	PASS
Band4	1413	NV	-30	1000.00	0.577167	±NA	PASS
Band4	1413	NV	-20	-2300.00	-1.327485	±NA	PASS
Band4	1413	NV	-10	-600.00	-0.346300	±NA	PASS
Band4	1413	NV	0	-2100.00	-1.212051	±NA	PASS
Band4	1413	NV	10	-50.00	-0.028858	±NA	PASS
Band4	1413	NV	20	-350.00	-0.202009	±NA	PASS
Band4	1413	NV	30	-2000.00	-1.154335	±NA	PASS
Band4	1413	NV	40	-3800.00	-2.193236	±NA	PASS
Band4	1413	NV	50	1400.00	0.808034	±NA	PASS
Band4	1513	NV	-30	-500.00	-0.285290	±NA	PASS
Band4	1513	NV	-20	-1200.00	-0.684697	±NA	PASS
Band4	1513	NV	-10	-2250.00	-1.283807	±NA	PASS
Band4	1513	NV	0	-1000.00	-0.570581	±NA	PASS

Band4	1513	NV	10	950.00	0.542052	±NA	PASS
Band4	1513	NV	20	300.00	0.171174	±NA	PASS
Band4	1513	NV	30	-3800.00	-2.168207	±NA	PASS
Band4	1513	NV	40	-1000.00	-0.570581	±NA	PASS
Band4	1513	NV	50	750.00	0.427936	±NA	PASS

Effective (Isotropic) Radiated Power Output Data

Test Result

Select the higher-powered ANT 1 as the final data.

Test Result(WCDMA)

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	22.85	16.52	38.45	PASS
Band5	4182	22.84	16.51	38.45	PASS
Band5	4233	22.88	16.55	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	-999	21.48	15.15	38.45	PASS
Band5	4182	-999	22.24	15.91	38.45	PASS
Band5	4233	-999	22.65	16.32	38.45	PASS

Test Result(HSUPA)

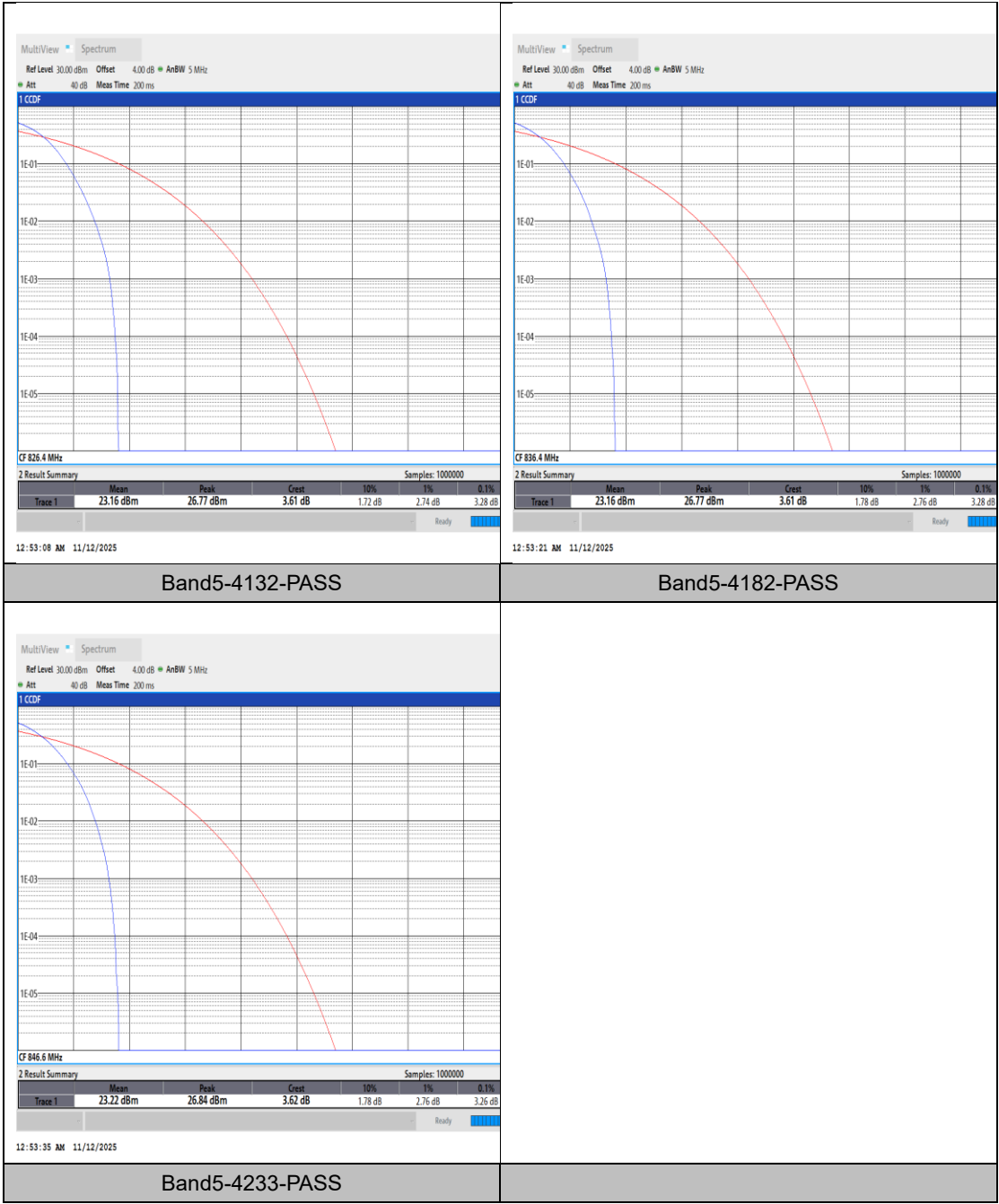
Band	Channel	SubTest	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	-999	19.91	13.58	38.45	PASS
Band5	4182	-999	20.46	14.13	38.45	PASS
Band5	4233	-999	20.73	14.4	38.45	PASS

Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.28	13	PASS
Band5	4182	3.28	13	PASS
Band5	4233	3.26	13	PASS

Test Graphs

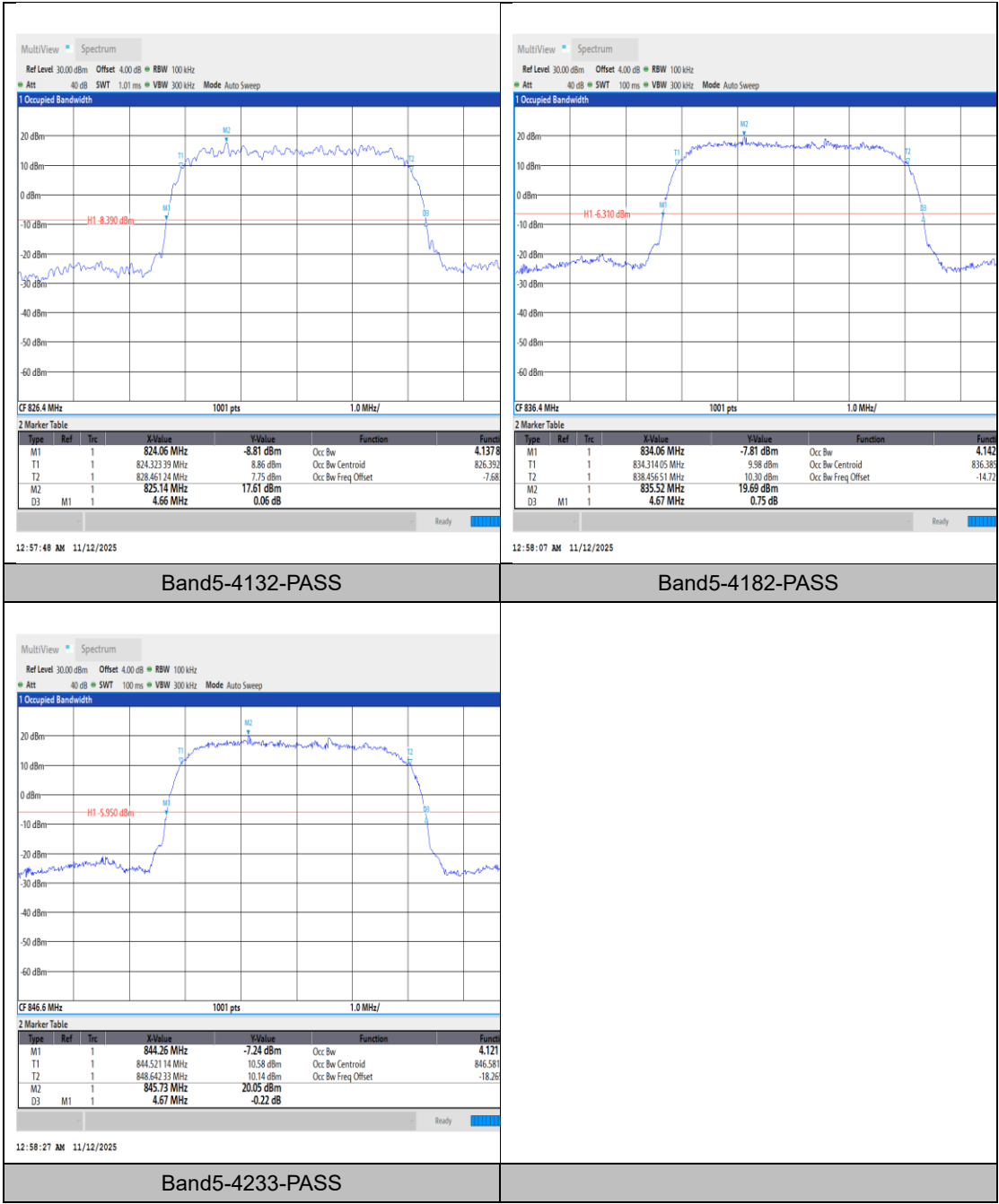


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.138	4.66	---	PASS
Band5	4182	4.142	4.67	---	PASS
Band5	4233	4.121	4.67	---	PASS

Test Graphs

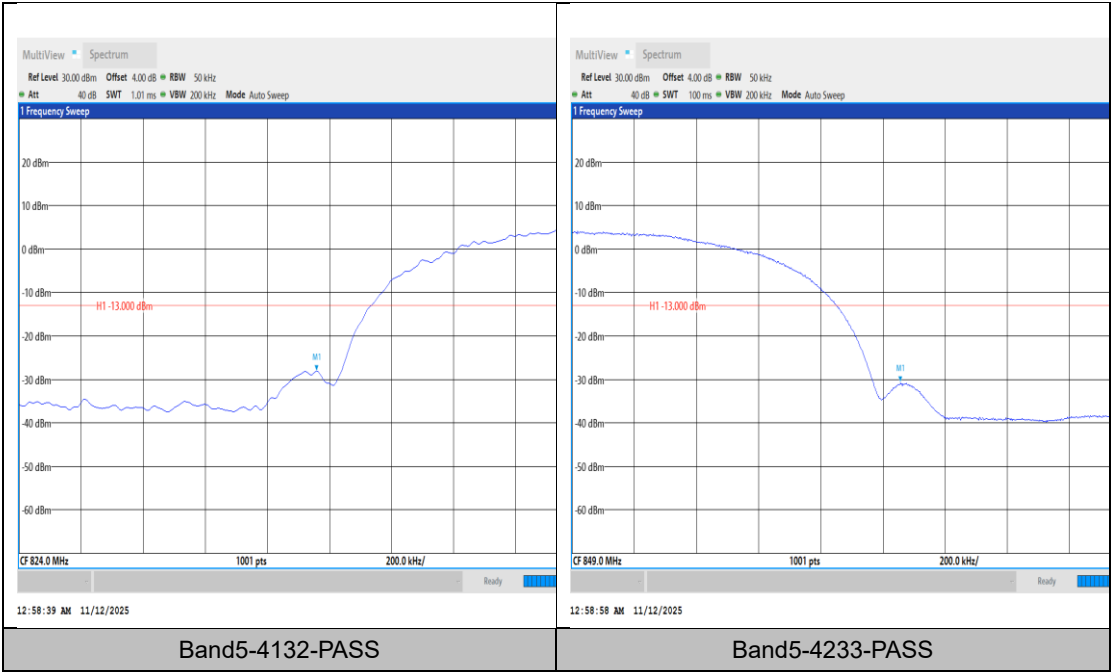


Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.96	-28.10	-13	PASS
Band5	4233	849.06	-30.76	-13	PASS

Test Graphs

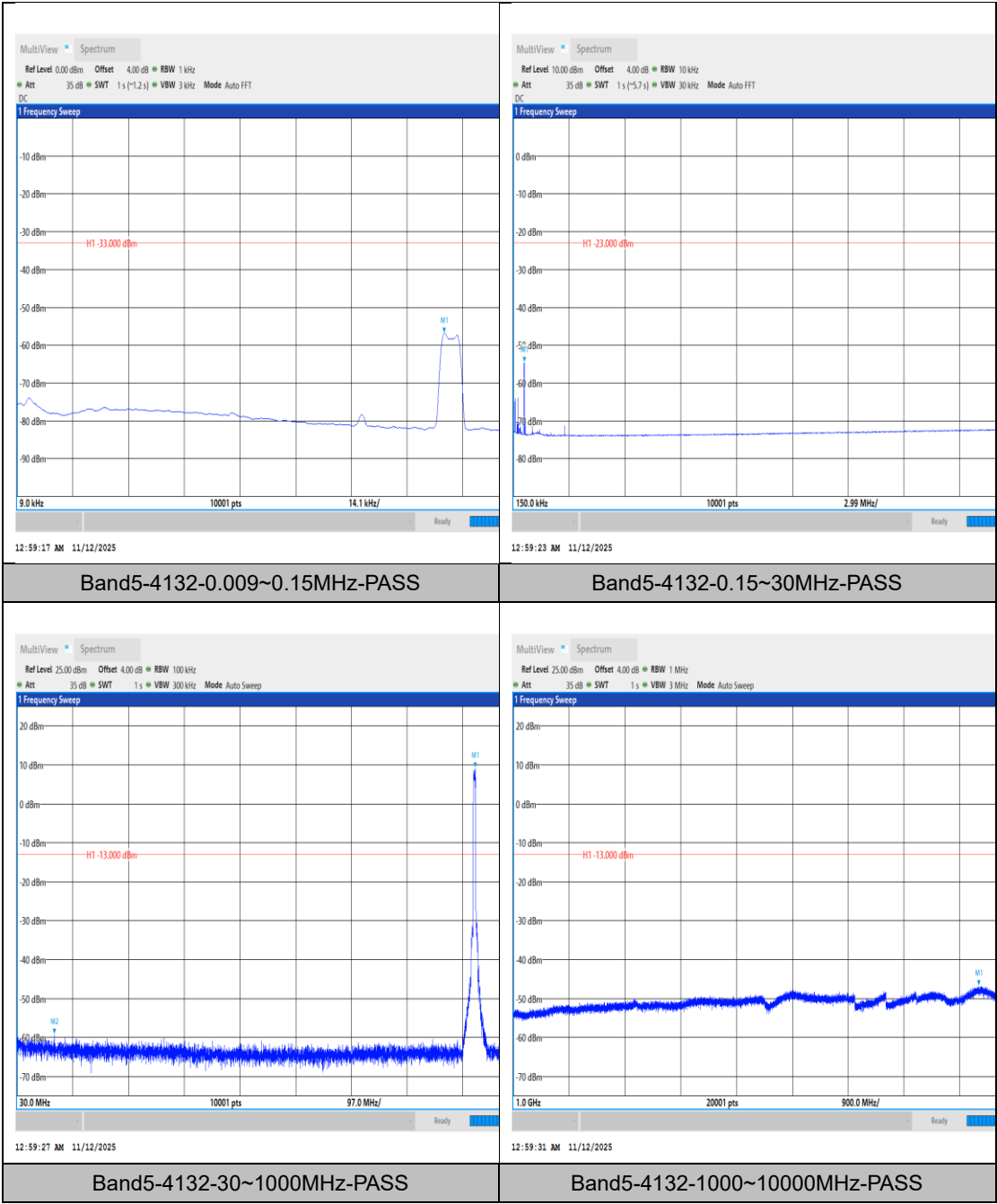


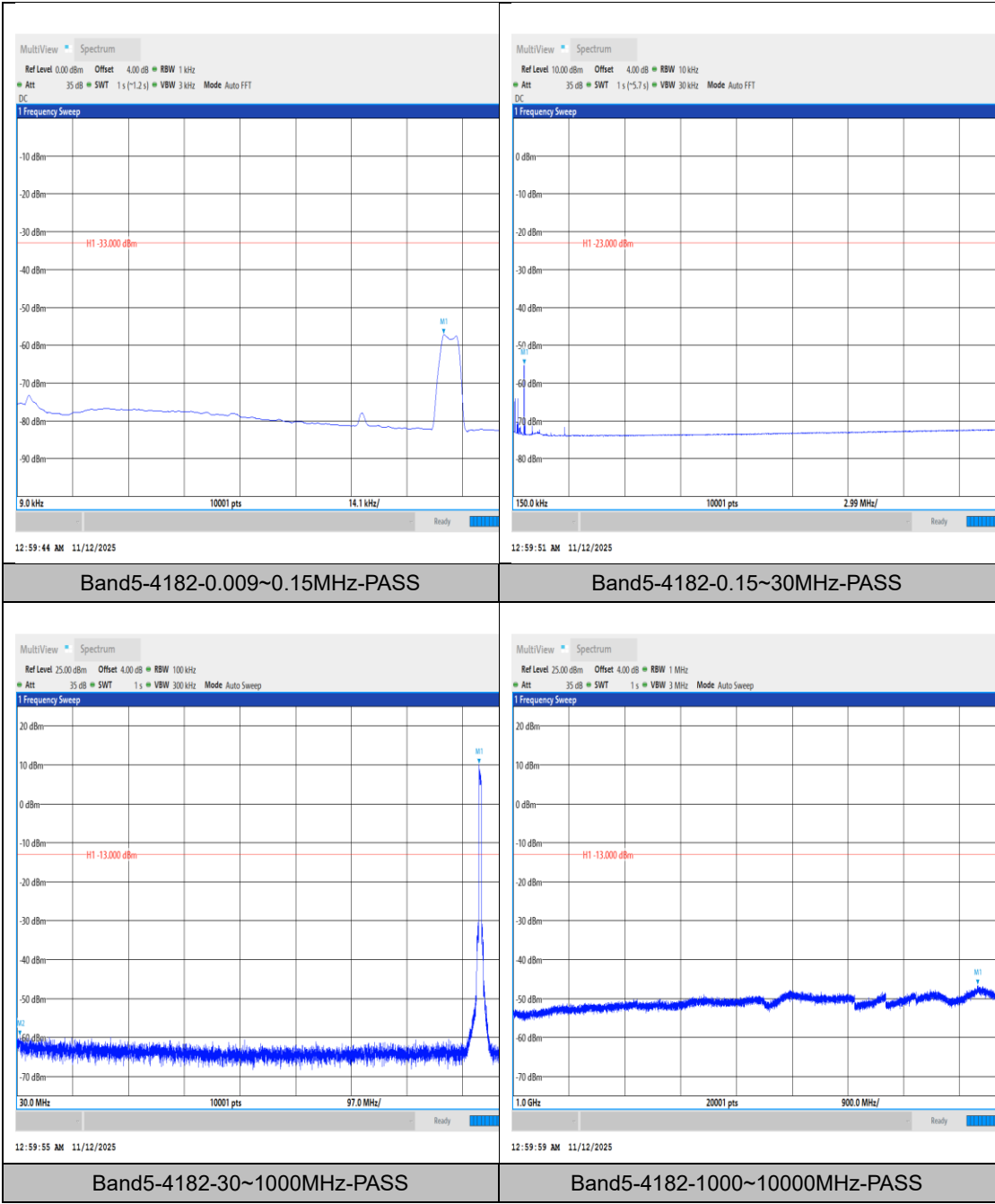
Conducted Spurious Emission

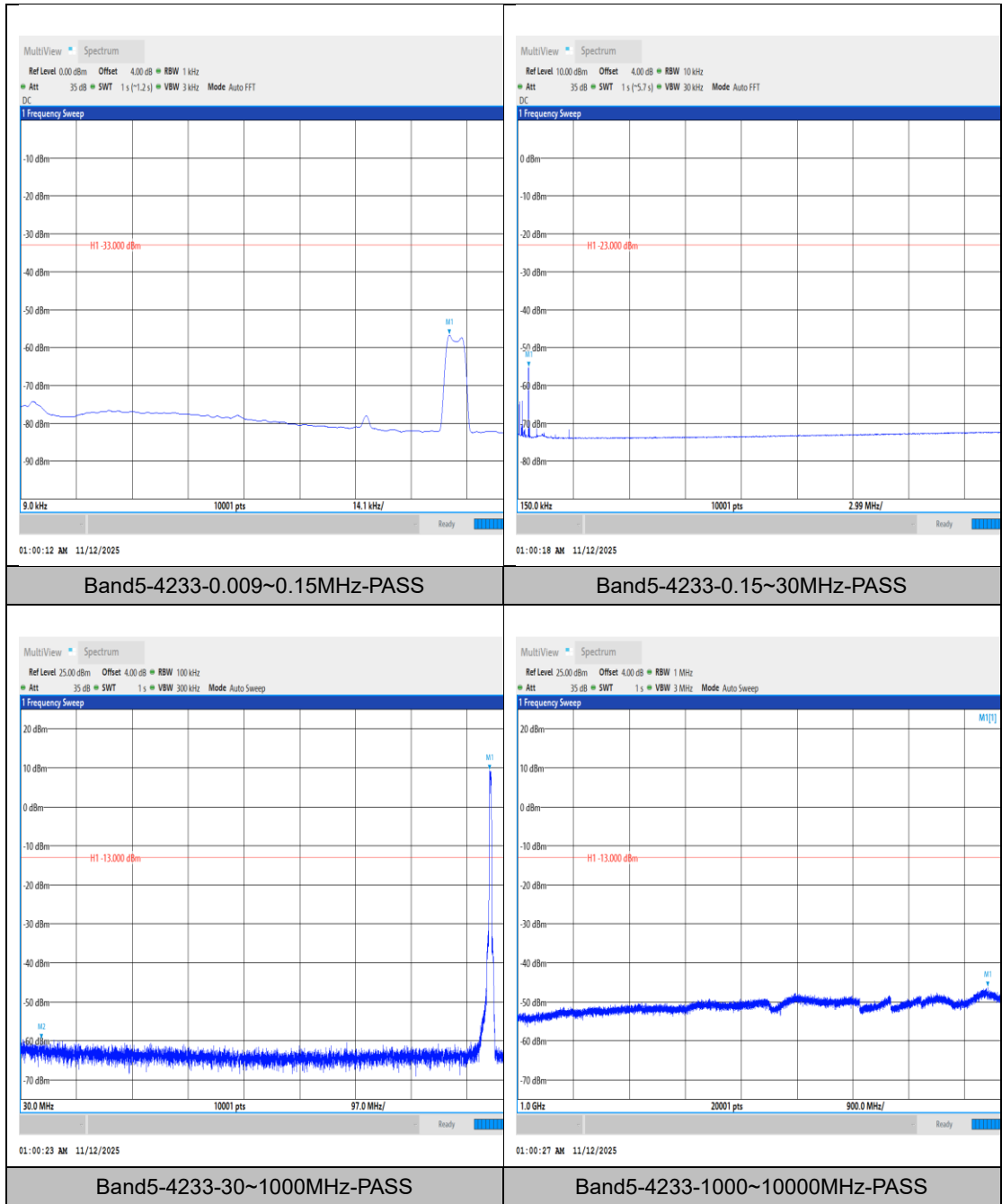
Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	0.009~0.15MHz	0.12	-56.77	-33	PASS
Band5	4132	0.15~30MHz	0.72	-54.58	-23	PASS
Band5	4132	30~1000MHz	94.99	-59.23	-13	PASS
Band5	4132	1000~10000MHz	8507.2	-46.77	-13	PASS
Band5	4182	0.009~0.15MHz	0.12	-57.11	-33	PASS
Band5	4182	0.15~30MHz	0.72	-55.17	-23	PASS
Band5	4182	30~1000MHz	34.37	-59.59	-13	PASS
Band5	4182	1000~10000MHz	8494.15	-46.51	-13	PASS
Band5	4233	0.009~0.15MHz	0.12	-56.75	-33	PASS
Band5	4233	0.15~30MHz	0.72	-55.17	-23	PASS
Band5	4233	30~1000MHz	65.79	-59.59	-13	PASS
Band5	4233	1000~10000MHz	8575.15	-46.23	-13	PASS

Test Graphs







Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VN	NT	-0.93	-0.001125	±2.5	PASS
Band5	4132	VL	NT	-3.69	-0.004465	±2.5	PASS
Band5	4132	VH	NT	-0.76	-0.000920	±2.5	PASS
Band5	4182	VN	NT	-2.39	-0.002857	±2.5	PASS
Band5	4182	VL	NT	-1.48	-0.001769	±2.5	PASS
Band5	4182	VH	NT	-1.97	-0.002355	±2.5	PASS
Band5	4233	VN	NT	1.92	0.002268	±2.5	PASS
Band5	4233	VL	NT	-1.84	-0.002173	±2.5	PASS
Band5	4233	VH	NT	1.70	0.002008	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	0.02	0.000024	±2.5	PASS
Band5	4132	NV	-20	-1.28	-0.001549	±2.5	PASS
Band5	4132	NV	-10	3.18	0.003848	±2.5	PASS
Band5	4132	NV	0	0.06	0.000073	±2.5	PASS
Band5	4132	NV	10	0.99	0.001198	±2.5	PASS
Band5	4132	NV	20	-3.55	-0.004296	±2.5	PASS
Band5	4132	NV	30	0.53	0.000641	±2.5	PASS
Band5	4132	NV	40	-3.39	-0.004102	±2.5	PASS
Band5	4132	NV	50	0.31	0.000375	±2.5	PASS
Band5	4182	NV	-30	-0.36	-0.000430	±2.5	PASS
Band5	4182	NV	-20	0.39	0.000466	±2.5	PASS
Band5	4182	NV	-10	-0.96	-0.001148	±2.5	PASS
Band5	4182	NV	0	0.64	0.000765	±2.5	PASS
Band5	4182	NV	10	-1.07	-0.001279	±2.5	PASS
Band5	4182	NV	20	-1.31	-0.001566	±2.5	PASS
Band5	4182	NV	30	1.39	0.001662	±2.5	PASS
Band5	4182	NV	40	-0.41	-0.000490	±2.5	PASS
Band5	4182	NV	50	0.60	0.000717	±2.5	PASS
Band5	4233	NV	-30	-3.25	-0.003839	±2.5	PASS
Band5	4233	NV	-20	-0.58	-0.000685	±2.5	PASS
Band5	4233	NV	-10	0.27	0.000319	±2.5	PASS
Band5	4233	NV	0	-3.34	-0.003945	±2.5	PASS

Band5	4233	NV	10	-0.12	-0.000142	±2.5	PASS
Band5	4233	NV	20	0.18	0.000213	±2.5	PASS
Band5	4233	NV	30	1.91	0.002256	±2.5	PASS
Band5	4233	NV	40	-0.75	-0.000886	±2.5	PASS
Band5	4233	NV	50	-0.97	-0.001146	±2.5	PASS