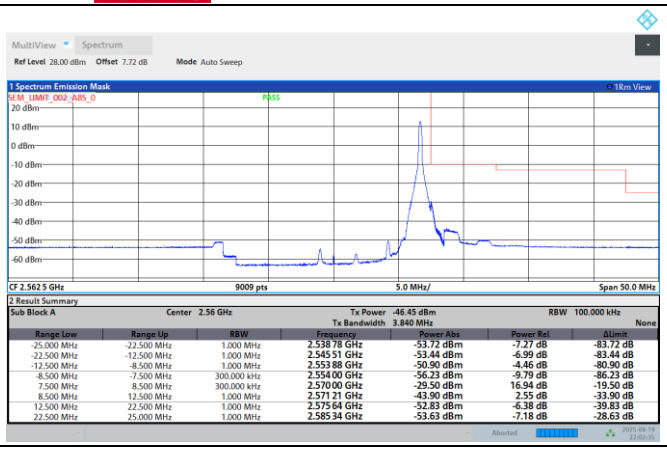
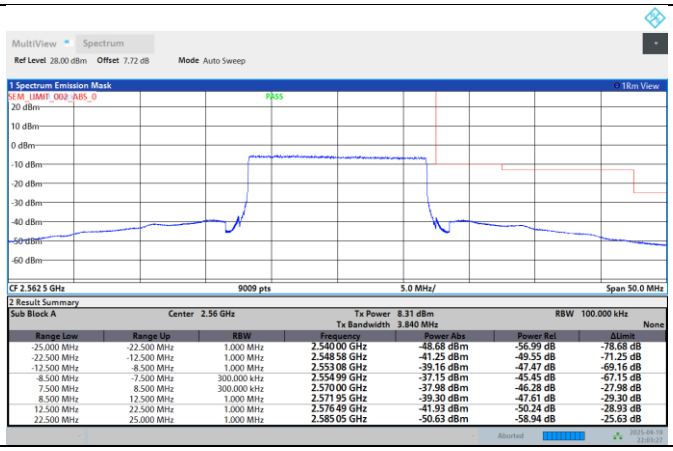


Band7-15MHz-256QAM-2507.5-1RB#0



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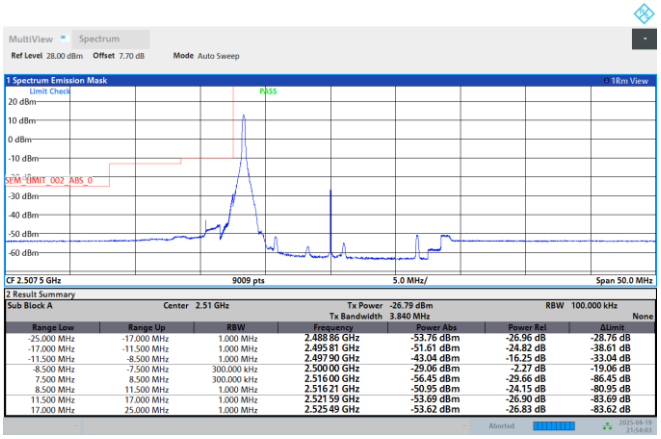

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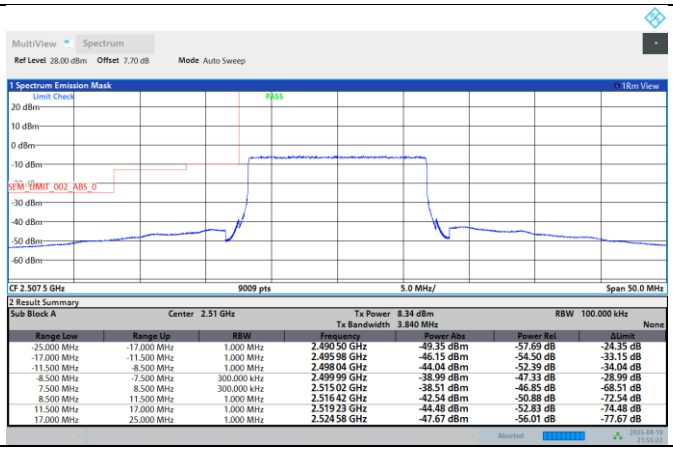

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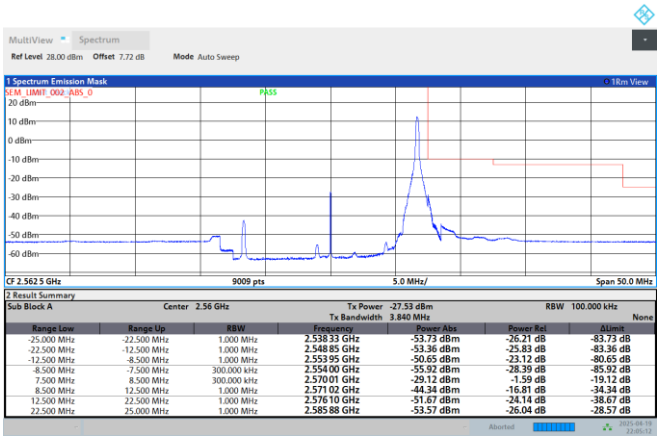

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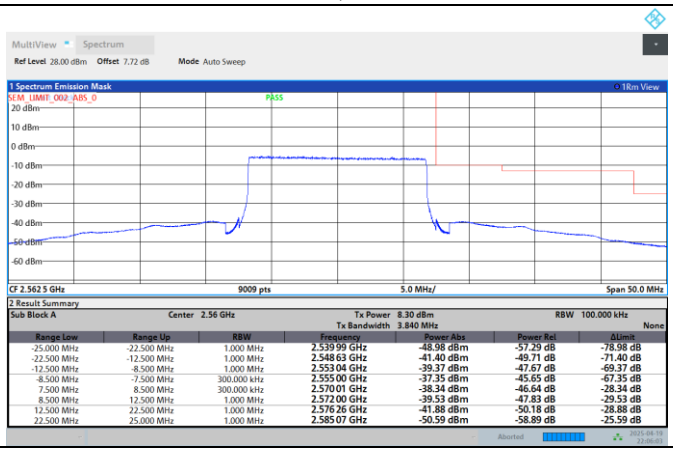

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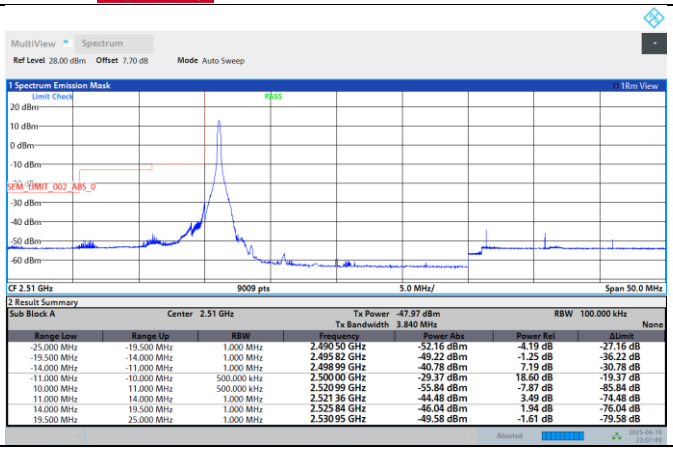

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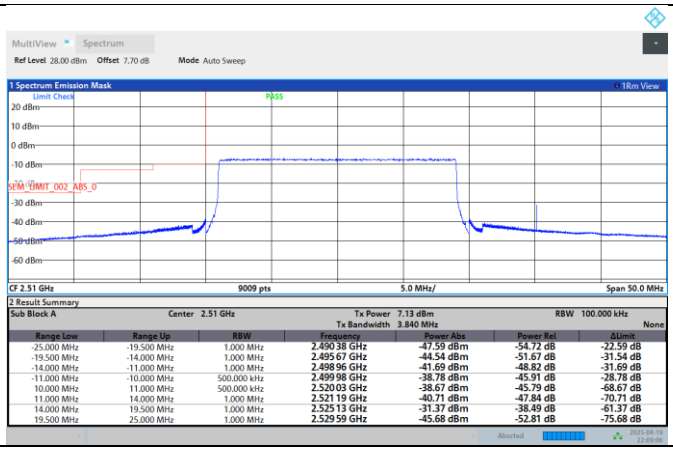

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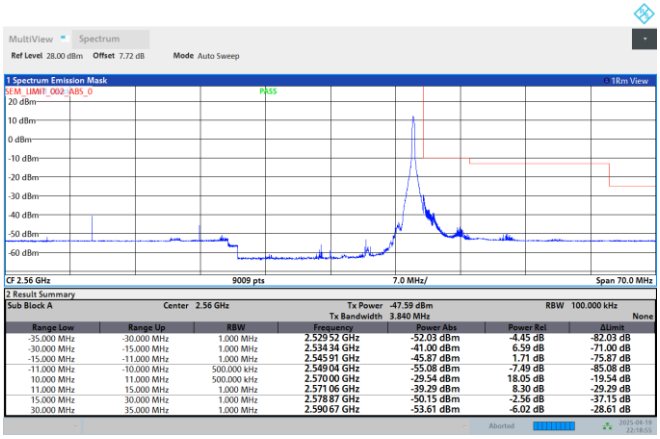

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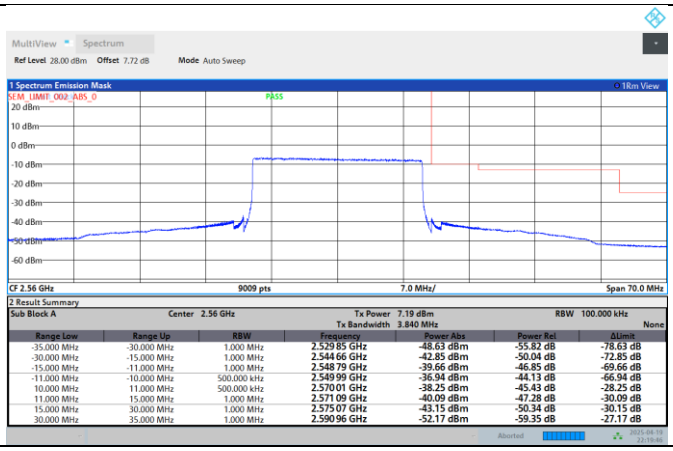

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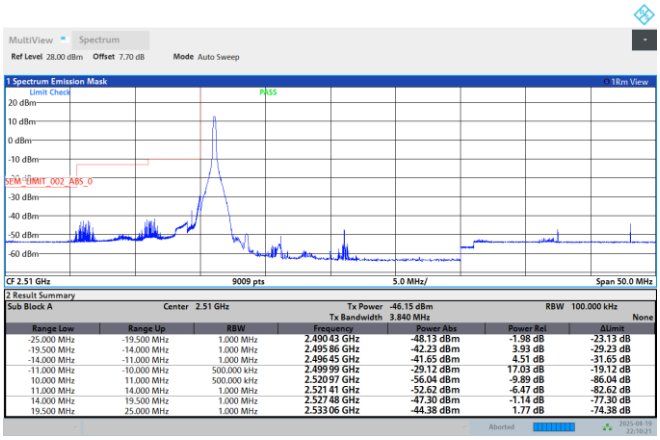

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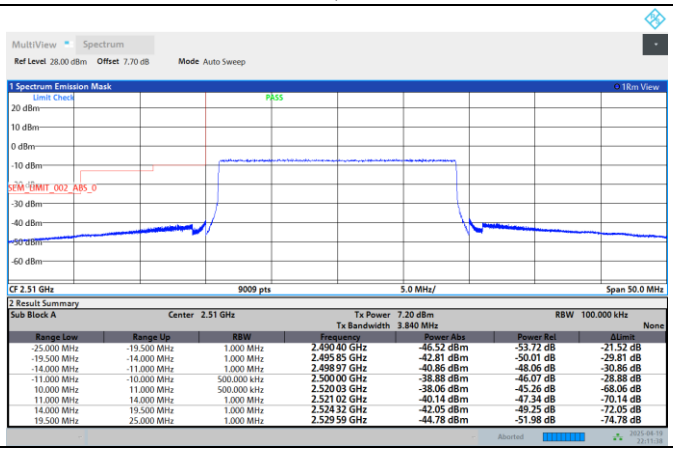
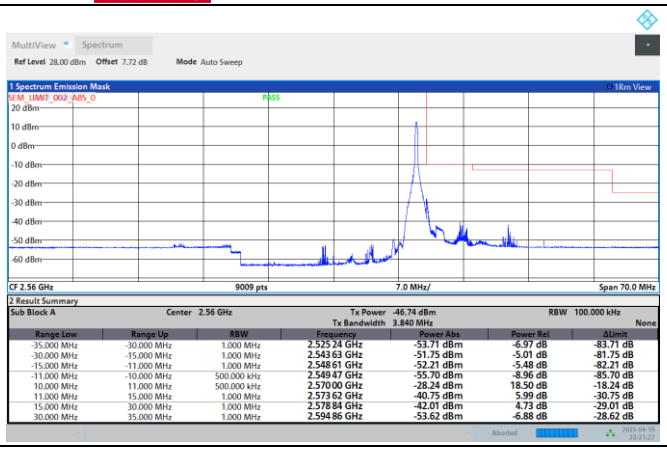


Band7-20MHz-16QAM-2560-100RB#0



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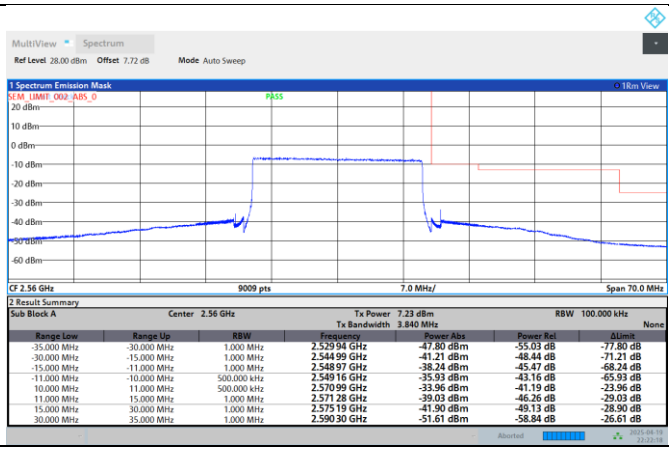

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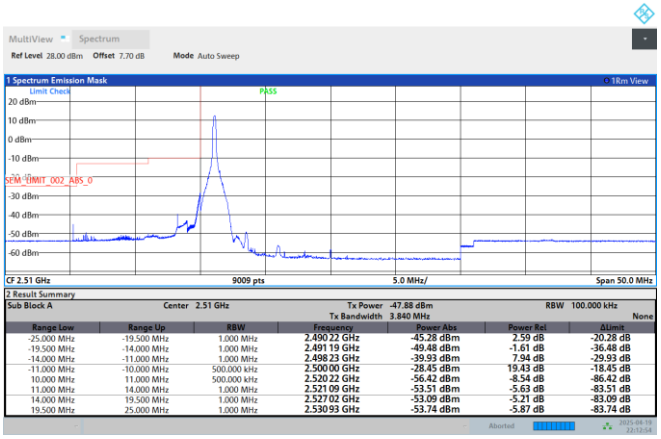

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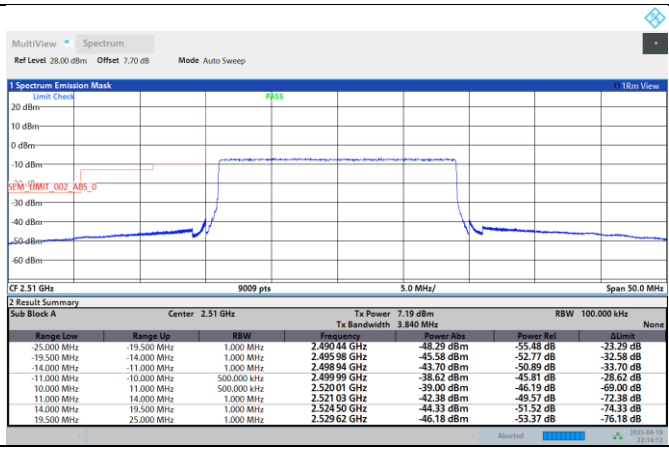

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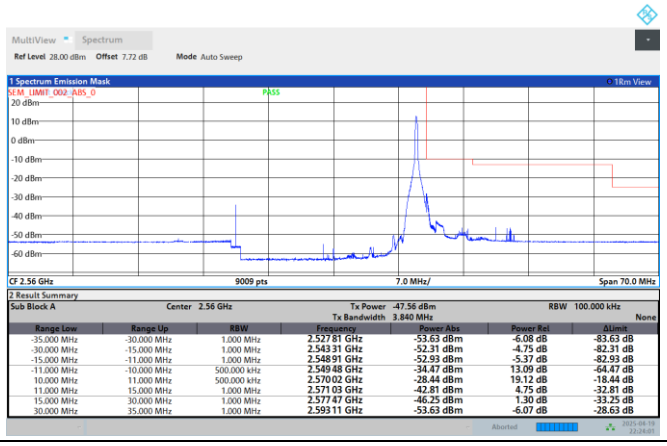

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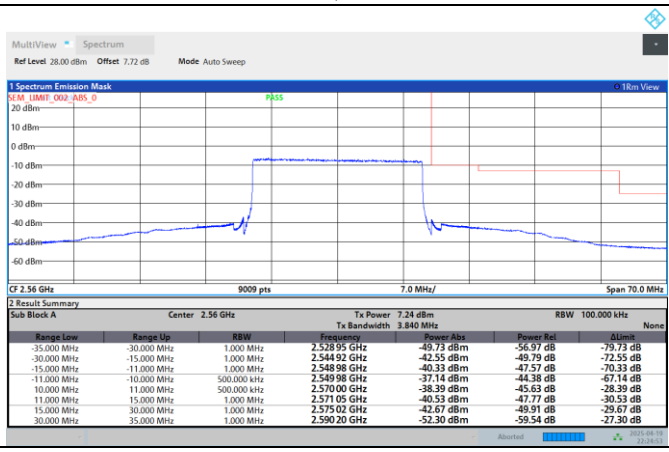

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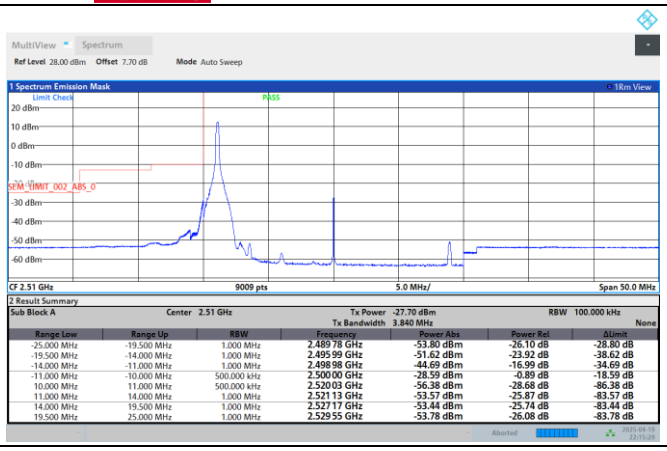
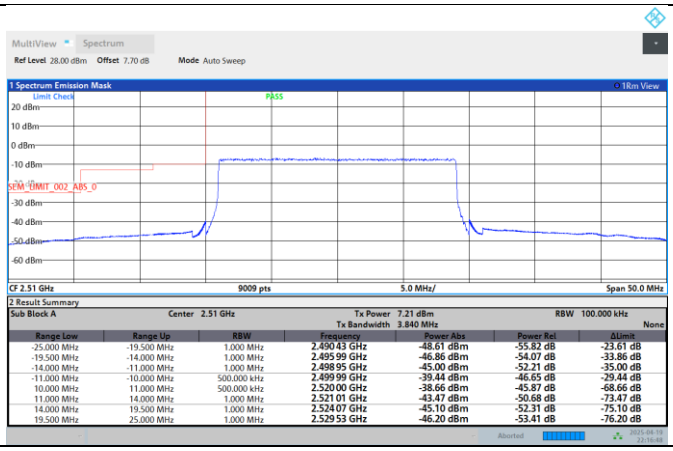


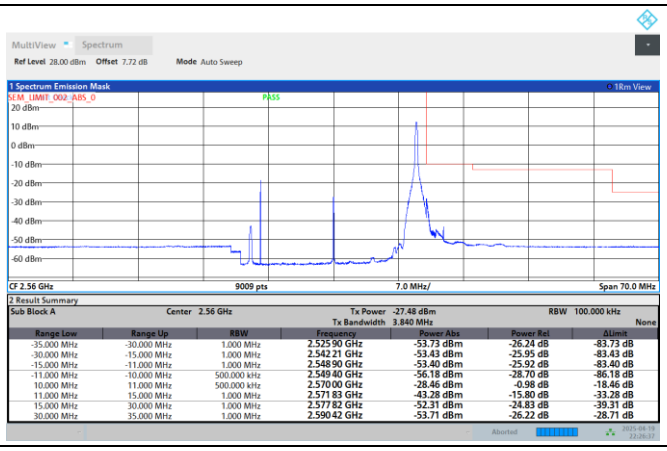
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-25.000 MHz	-19.500 MHz	1.000 MHz	2.489 78 GHz	-53.80 dBm	-26.10 dB	-28.80 dB
-19.500 MHz	-14.000 MHz	1.000 MHz	2.495 99 GHz	-51.62 dBm	-23.92 dB	-38.62 dB
-14.000 MHz	-11.000 MHz	1.000 MHz	2.498 98 GHz	-44.69 dBm	-16.99 dB	-34.69 dB
-11.000 MHz	-10.000 MHz	500.000 kHz	2.500 00 GHz	-28.59 dBm	-0.89 dB	-18.59 dB
10.000 MHz	11.000 MHz	500.000 kHz	2.520 03 GHz	-56.38 dBm	-28.68 dB	-86.38 dB
11.000 MHz	14.000 MHz	1.000 MHz	2.521 13 GHz	-53.57 dBm	-25.87 dB	-83.57 dB
14.000 MHz	19.500 MHz	1.000 MHz	2.527 17 GHz	-53.44 dBm	-25.74 dB	-83.44 dB
19.500 MHz	25.000 MHz	1.000 MHz	2.529 55 GHz	-53.78 dBm	-26.08 dB	-83.78 dB

Band7-20MHz-256QAM-2560-1RB#99

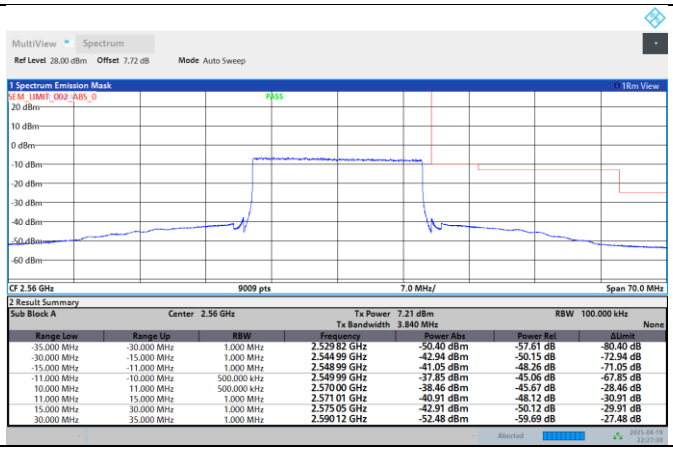


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-25.000 MHz	-19.500 MHz	1.000 MHz	2.490 43 GHz	-48.61 dBm	-55.82 dB	-23.61 dB
-19.500 MHz	-14.000 MHz	1.000 MHz	2.495 99 GHz	-46.86 dBm	-54.07 dB	-33.86 dB
-14.000 MHz	-11.000 MHz	1.000 MHz	2.498 95 GHz	-45.00 dBm	-52.21 dB	-35.00 dB
-11.000 MHz	-10.000 MHz	500.000 kHz	2.499 99 GHz	-39.44 dBm	-46.65 dB	-29.44 dB
10.000 MHz	11.000 MHz	500.000 kHz	2.520 00 GHz	-38.66 dBm	-45.87 dB	-68.66 dB
11.000 MHz	14.000 MHz	1.000 MHz	2.521 01 GHz	-43.47 dBm	-50.68 dB	-73.47 dB
14.000 MHz	19.500 MHz	1.000 MHz	2.524 07 GHz	-45.10 dBm	-52.31 dB	-75.10 dB
19.500 MHz	25.000 MHz	1.000 MHz	2.529 53 GHz	-46.20 dBm	-53.41 dB	-76.20 dB

Band7-20MHz-256QAM-2560-100RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-35.000 MHz	-30.000 MHz	1.000 MHz	2.525 90 GHz	-53.73 dBm	-26.24 dB	-83.73 dB
-30.000 MHz	-15.000 MHz	1.000 MHz	2.542 21 GHz	-53.43 dBm	-25.95 dB	-83.43 dB
-15.000 MHz	-11.000 MHz	1.000 MHz	2.548 90 GHz	-53.40 dBm	-25.92 dB	-83.40 dB
-11.000 MHz	-10.000 MHz	500.000 kHz	2.549 40 GHz	-56.18 dBm	-28.70 dB	-86.18 dB
10.000 MHz	11.000 MHz	500.000 kHz	2.570 00 GHz	-28.46 dBm	-0.98 dB	-18.46 dB
11.000 MHz	15.000 MHz	1.000 MHz	2.571 83 GHz	-43.28 dBm	-15.80 dB	-33.28 dB
15.000 MHz	30.000 MHz	1.000 MHz	2.577 82 GHz	-52.31 dBm	-24.83 dB	-39.31 dB
30.000 MHz	35.000 MHz	1.000 MHz	2.590 42 GHz	-53.71 dBm	-26.22 dB	-28.71 dB



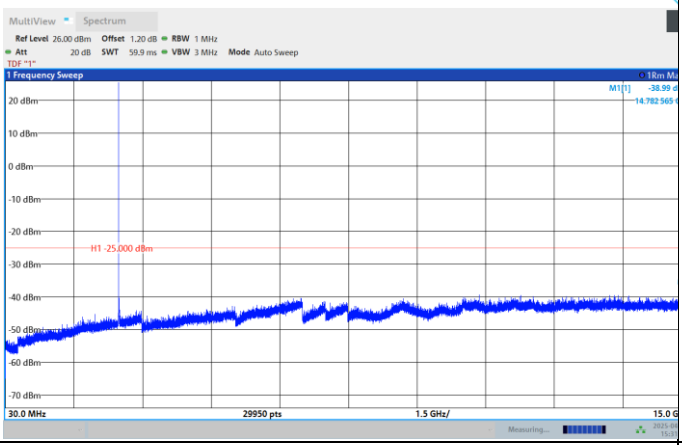
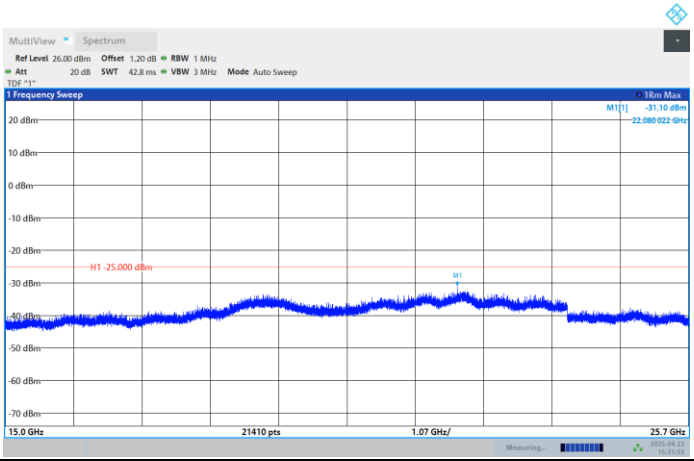
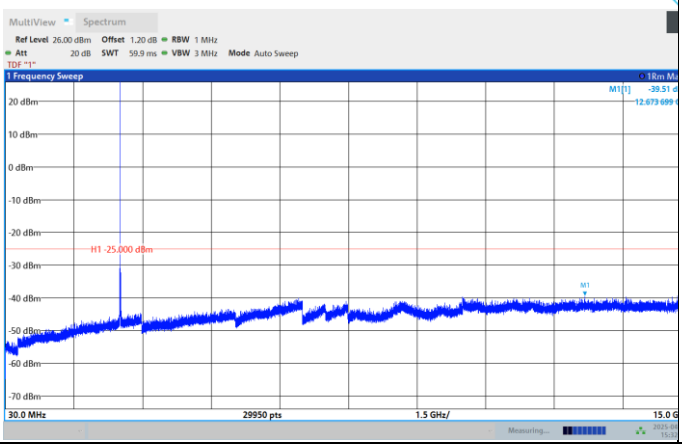
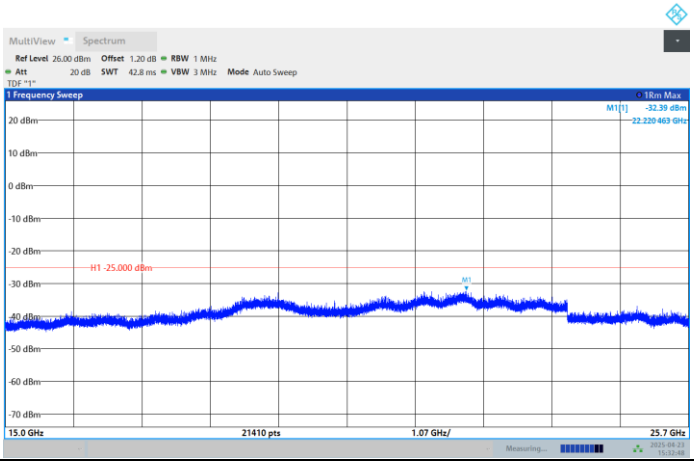
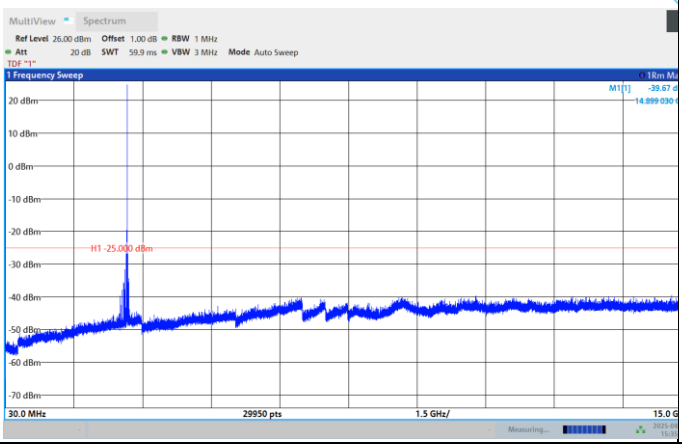
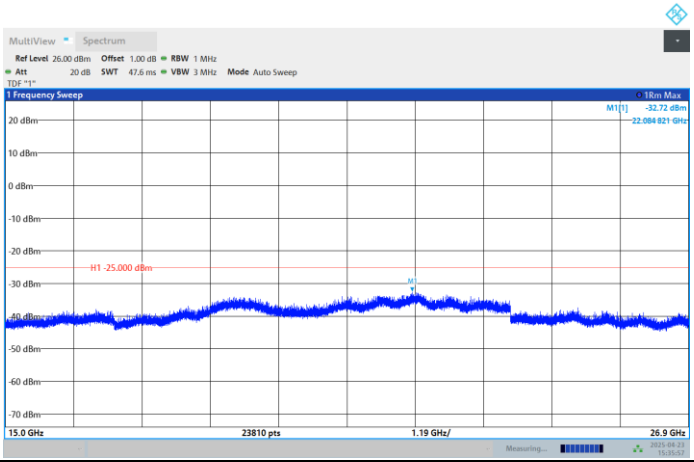
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-35.000 MHz	-30.000 MHz	1.000 MHz	2.529 82 GHz	-50.40 dBm	-57.61 dB	-80.40 dB
-30.000 MHz	-15.000 MHz	1.000 MHz	2.544 99 GHz	-42.94 dBm	-50.15 dB	-72.94 dB
-15.000 MHz	-11.000 MHz	1.000 MHz	2.548 99 GHz	-41.05 dBm	-48.26 dB	-71.05 dB
-11.000 MHz	-10.000 MHz	500.000 kHz	2.549 99 GHz	-37.85 dBm	-45.06 dB	-67.85 dB
10.000 MHz	11.000 MHz	500.000 kHz	2.570 00 GHz	-38.46 dBm	-45.67 dB	-28.46 dB
11.000 MHz	15.000 MHz	1.000 MHz	2.571 01 GHz	-40.91 dBm	-48.12 dB	-30.91 dB
15.000 MHz	30.000 MHz	1.000 MHz	2.575 05 GHz	-42.91 dBm	-50.12 dB	-29.91 dB
30.000 MHz	35.000 MHz	1.000 MHz	2.590 12 GHz	-52.48 dBm	-59.69 dB	-27.48 dB

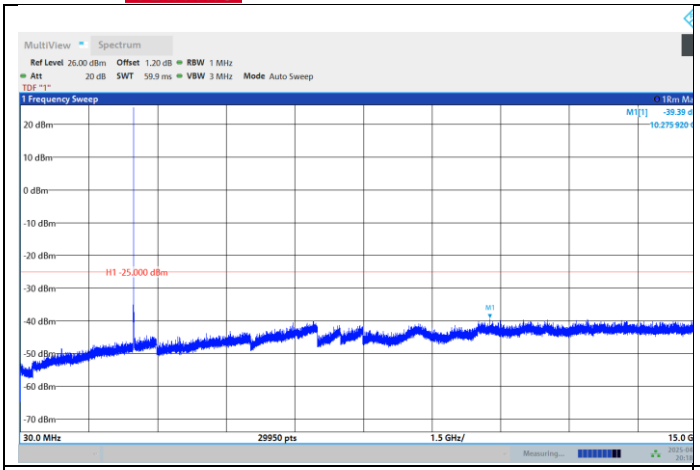
CONDUCTED SPURIOUS EMISSION

Test Result

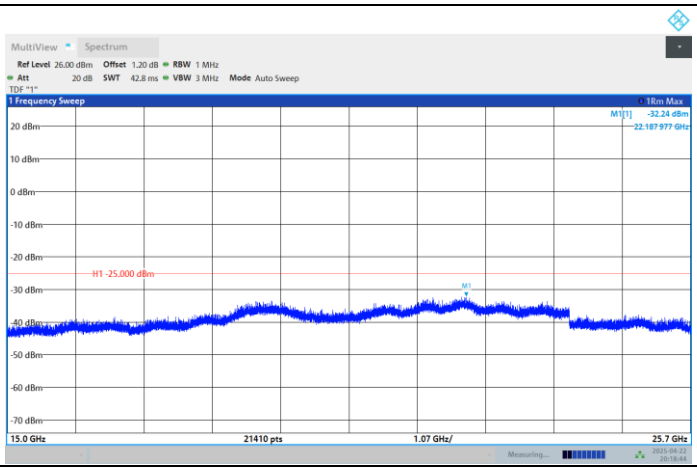
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	2502.5	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	5MHz	QPSK	2502.5	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	5MHz	QPSK	2535	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	5MHz	QPSK	2535	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	5MHz	QPSK	2567.5	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	5MHz	QPSK	2567.5	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	10MHz	QPSK	2505	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	10MHz	QPSK	2505	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	10MHz	QPSK	2535	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	10MHz	QPSK	2535	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	10MHz	QPSK	2565	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	10MHz	QPSK	2565	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	15MHz	QPSK	2507.5	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	15MHz	QPSK	2507.5	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	15MHz	QPSK	2535	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	15MHz	QPSK	2535	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	15MHz	QPSK	2562.5	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	15MHz	QPSK	2562.5	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	20MHz	QPSK	2510	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	20MHz	QPSK	2510	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	20MHz	QPSK	2535	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	20MHz	QPSK	2535	1RB#0	Range:15000~25700MHz	See Graph	PASS
Band7	20MHz	QPSK	2560	1RB#0	Range:30~15000MHz	See Graph	PASS
Band7	20MHz	QPSK	2560	1RB#0	Range:15000~25700MHz	See Graph	PASS

Test Graphs

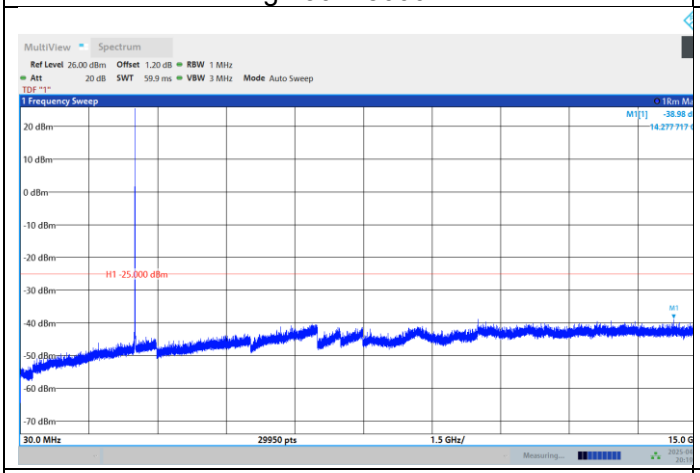
Band7-5MHz-QPSK-2502.5-1RB#0-Range:30~15000MHz	Band7-5MHz-QPSK-2502.5-1RB#0-Range:15000~25700MHz
	
Band7-5MHz-QPSK-2535-1RB#0-Range:30~15000MHz	Band7-5MHz-QPSK-2535-1RB#0-Range:15000~25700MHz
	
Band7-5MHz-QPSK-2567.5-1RB#0-Range:30~15000MHz	Band7-5MHz-QPSK-2567.5-1RB#0-Range:15000~25700MHz
	
Band7-10MHz-QPSK-2505-1RB#0-Range:30~15000MHz	Band7-10MHz-QPSK-2505-1RB#0-Range:15000~25700MHz



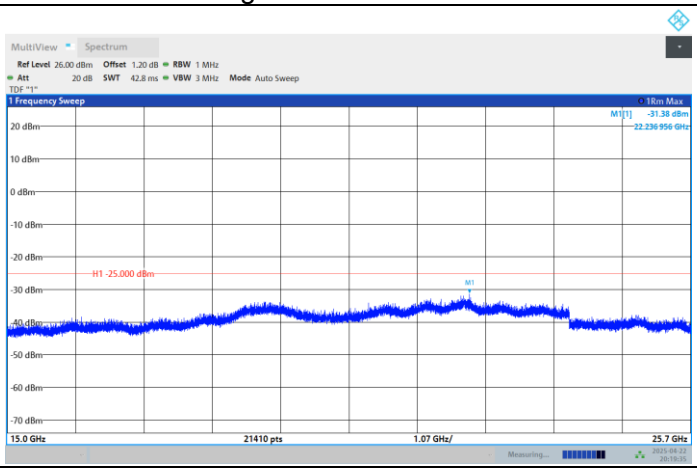
Band7-10MHz-QPSK-2535-1RB#0-Range:30~15000MHz



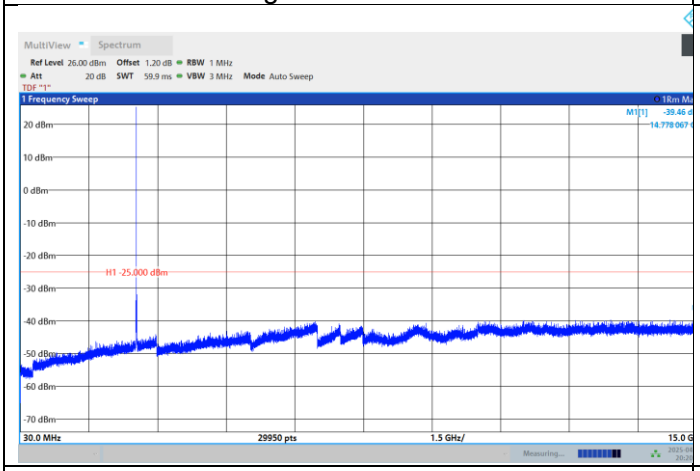
Band7-10MHz-QPSK-2535-1RB#0-Range:15000~25700MHz



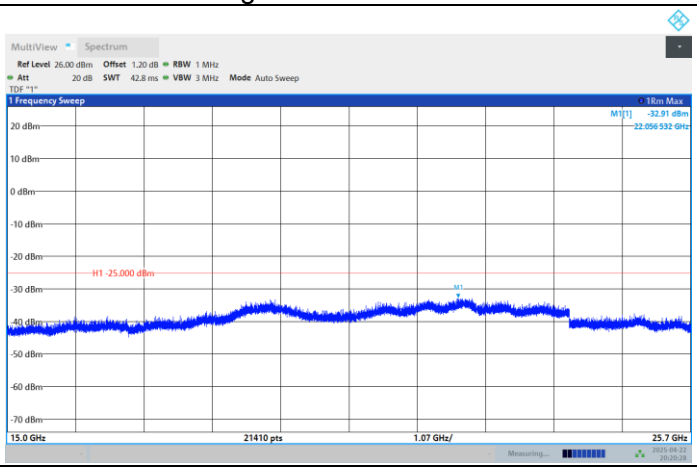
Band7-10MHz-QPSK-2565-1RB#0-Range:30~15000MHz



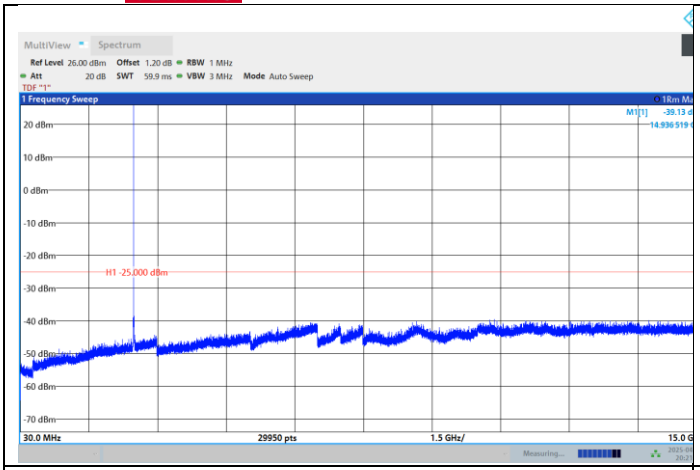
Band7-10MHz-QPSK-2565-1RB#0-Range:15000~25700MHz



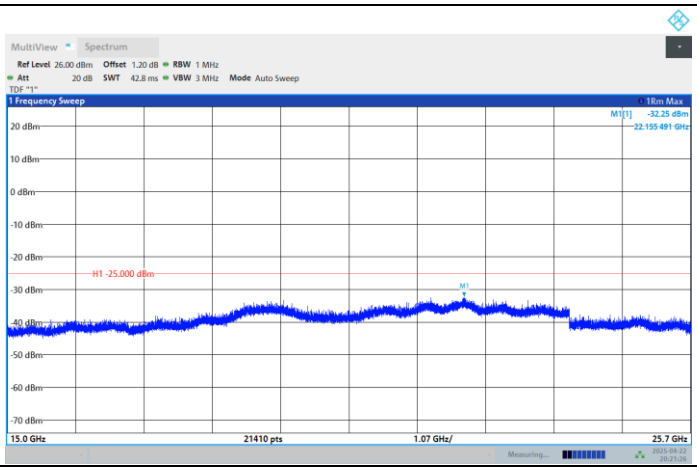
Band7-15MHz-QPSK-2507.5-1RB#0-Range:30~15000MHz



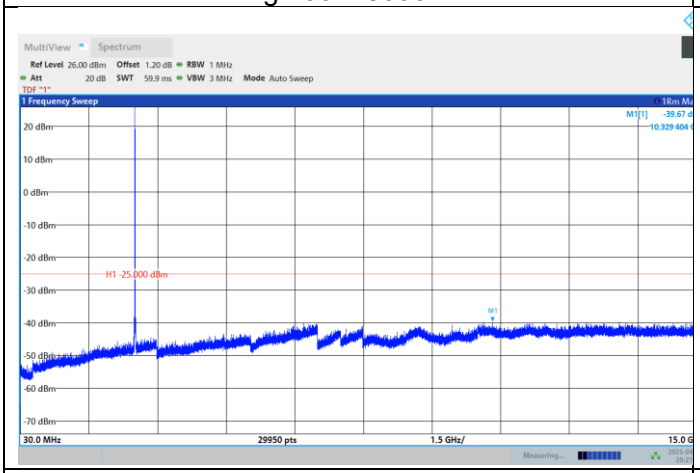
Band7-15MHz-QPSK-2507.5-1RB#0-Range:15000~25700MHz



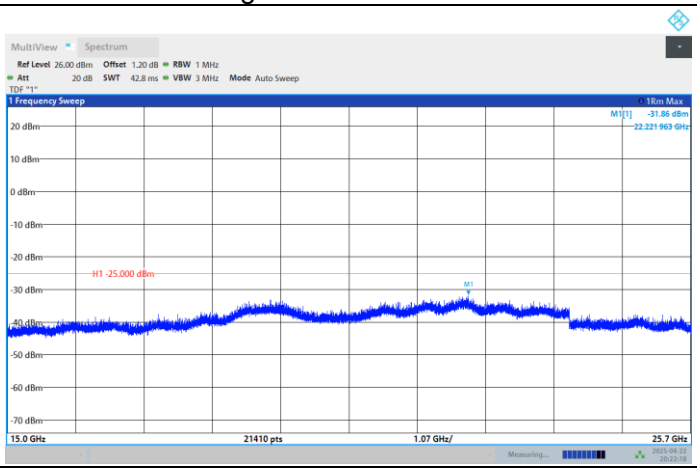
Band7-15MHz-QPSK-2535-1RB#0-
Range:30~15000MHz



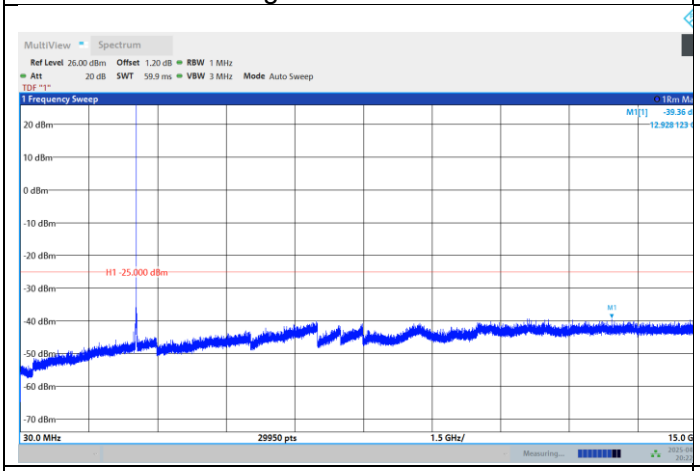
Band7-15MHz-QPSK-2535-1RB#0-
Range:15000~25700MHz



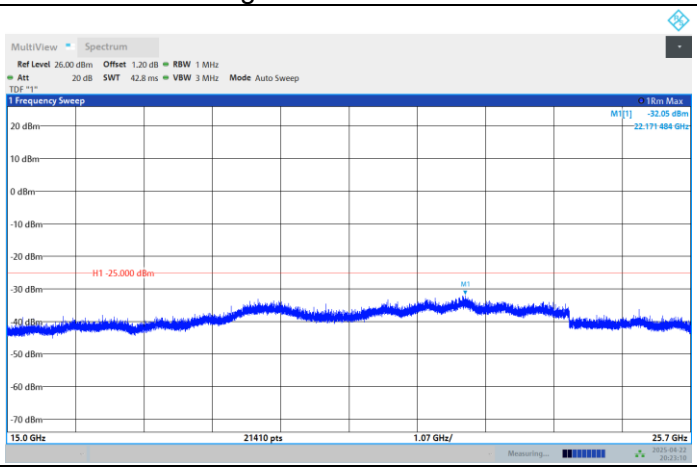
Band7-15MHz-QPSK-2562.5-1RB#0-
Range:30~15000MHz



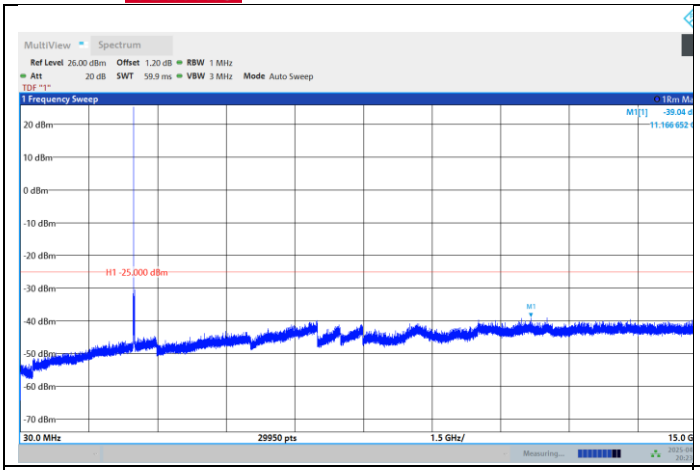
Band7-15MHz-QPSK-2562.5-1RB#0-
Range:15000~25700MHz



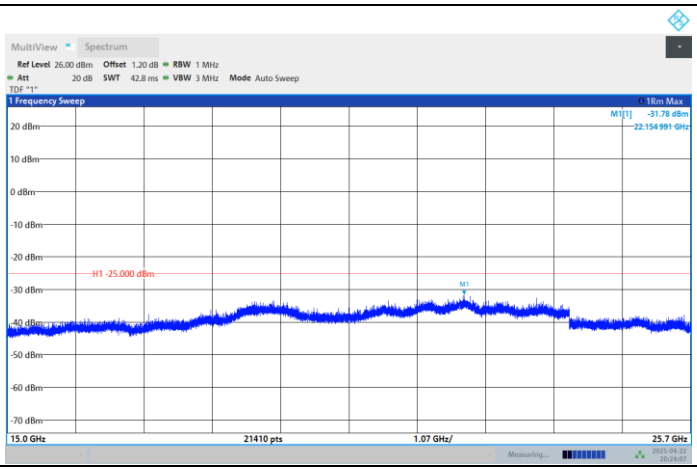
Band7-20MHz-QPSK-2510-1RB#0-
Range:30~15000MHz



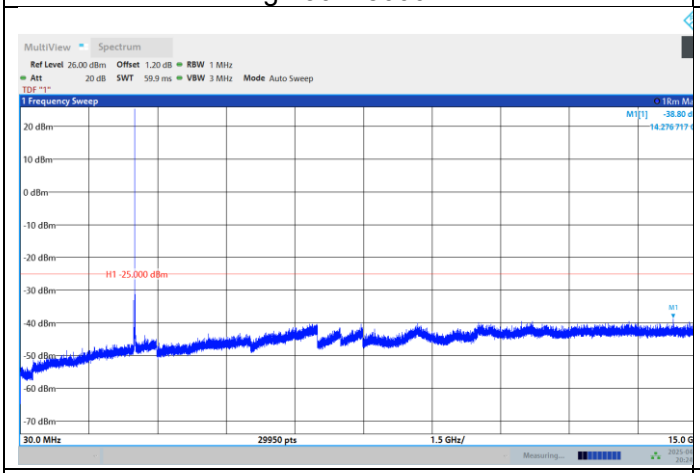
Band7-20MHz-QPSK-2510-1RB#0-
Range:15000~25700MHz



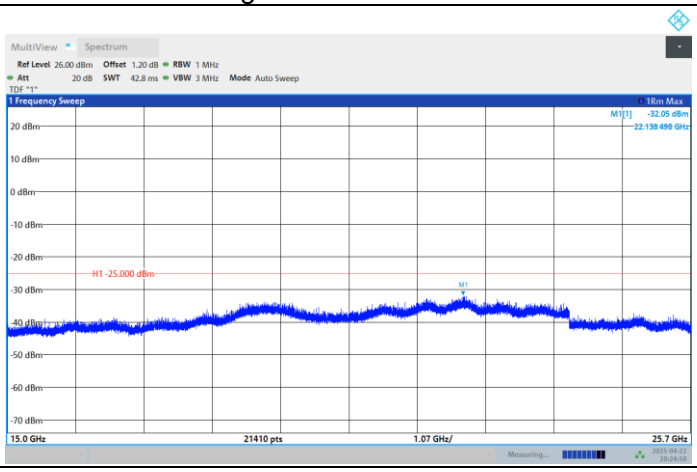
Band7-20MHz-QPSK-2535-1RB#0-Range:30~15000MHz



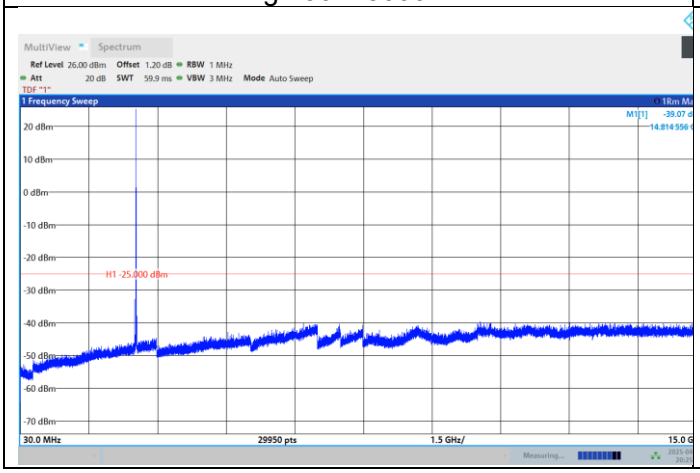
Band7-20MHz-QPSK-2535-1RB#0-Range:15000~25700MHz

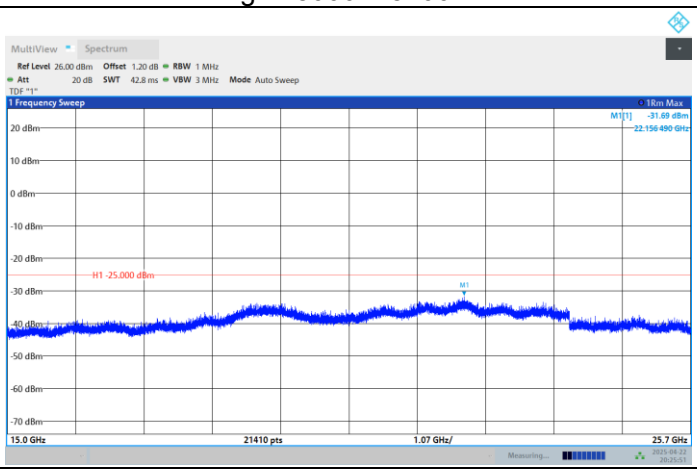


Band7-20MHz-QPSK-2560-1RB#0-Range:30~15000MHz



Band7-20MHz-QPSK-2560-1RB#0-Range:15000~25700MHz





FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	2510	100RB#0	LV	NT	-5.94	-0.0024	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	NT	9.15	0.0036	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	HV	NT	13.38	0.0053	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	LV	NT	6.51	0.0026	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	NT	11.24	0.0044	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	HV	NT	-6.97	-0.0027	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	LV	NT	19.30	0.0075	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	NT	10.57	0.0041	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	HV	NT	-16.20	-0.0063	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	2510	100RB#0	NV	-30	-12.70	-0.0051	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	-20	-15.10	-0.0060	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	-10	17.40	0.0069	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	0	-20.40	-0.0081	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	10	24.10	0.0096	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	20	-5.90	-0.0024	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	30	16.60	0.0066	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	40	17.60	0.0070	±2.5	PASS
Band7	20MHz	QPSK	2510	100RB#0	NV	50	-0.70	-0.0003	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	-30	-1.39	-0.0005	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	-20	10.71	0.0042	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	-10	-9.52	-0.0038	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	0	17.69	0.0070	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	10	-9.79	-0.0039	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	20	10.67	0.0042	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	30	1.93	0.0008	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	40	-22.03	-0.0087	±2.5	PASS
Band7	20MHz	QPSK	2535	100RB#0	NV	50	13.76	0.0054	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	-30	-16.00	-0.0063	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	-20	13.90	0.0054	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	-10	-18.30	-0.0071	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	0	-0.80	-0.0003	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	10	16.20	0.0063	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	20	-25.40	-0.0099	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	30	-6.00	-0.0023	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	40	-13.30	-0.0052	±2.5	PASS
Band7	20MHz	QPSK	2560	100RB#0	NV	50	-27.80	-0.0109	±2.5	PASS

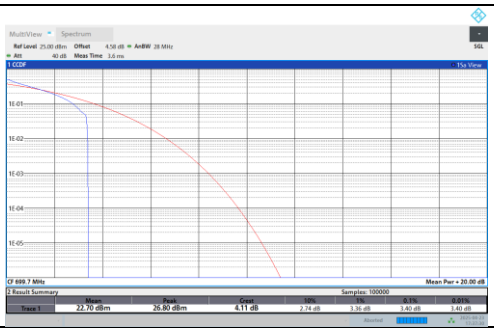
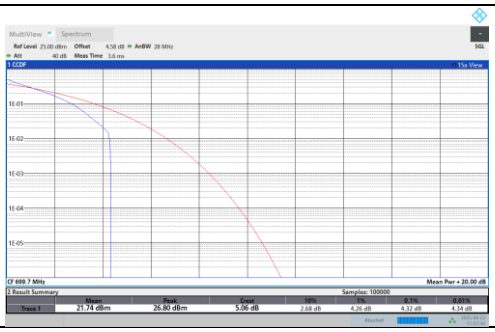
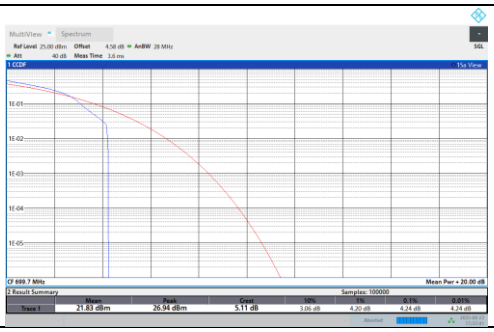
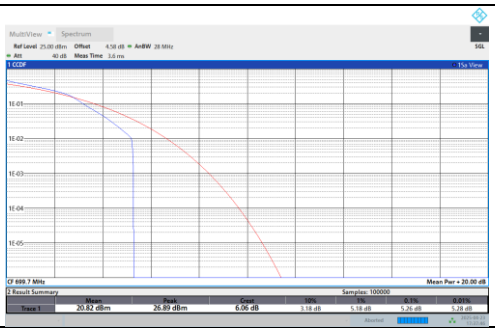
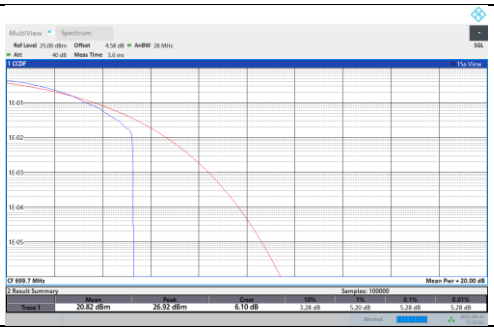
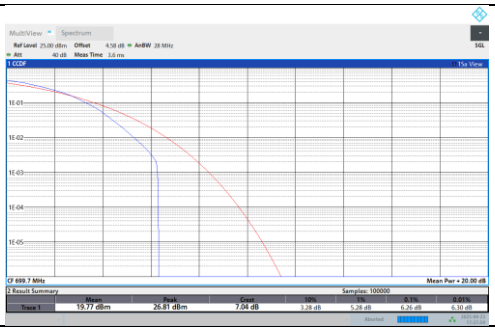
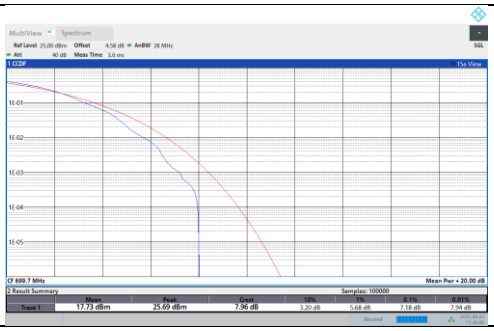
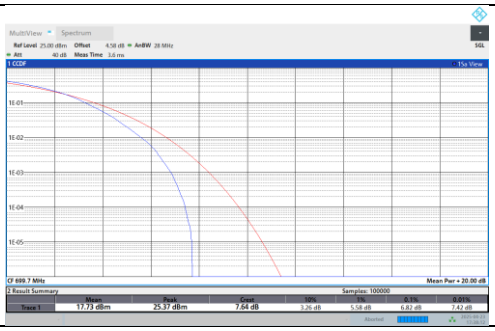
LTE BAND12 (INCLUDING B17)
PEAK-TO-AVERAGE RATIO(CCDF)

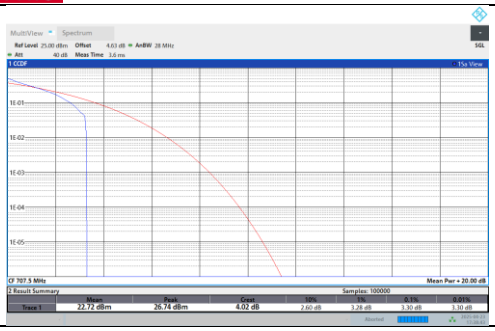
Test Result

Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Result (dB)	Limit (dB)	Verdict
1.4MHz	QPSK	699.7	1 RB low	3.4	13	PASS
1.4MHz	QPSK	699.7	100% RB	4.32	13	PASS
1.4MHz	16QAM	699.7	1 RB low	4.24	13	PASS
1.4MHz	16QAM	699.7	100% RB	5.26	13	PASS
1.4MHz	64QAM	699.7	1 RB low	5.28	13	PASS
1.4MHz	64QAM	699.7	100% RB	6.26	13	PASS
1.4MHz	256QAM	699.7	1 RB low	7.18	13	PASS
1.4MHz	256QAM	699.7	100% RB	6.82	13	PASS
1.4MHz	QPSK	707.5	1 RB low	3.3	13	PASS
1.4MHz	QPSK	707.5	100% RB	4.42	13	PASS
1.4MHz	16QAM	707.5	1 RB low	4.14	13	PASS
1.4MHz	16QAM	707.5	100% RB	5.44	13	PASS
1.4MHz	64QAM	707.5	1 RB low	5.18	13	PASS
1.4MHz	64QAM	707.5	100% RB	6.34	13	PASS
1.4MHz	256QAM	707.5	1 RB low	6.8	13	PASS
1.4MHz	256QAM	707.5	100% RB	7.2	13	PASS
1.4MHz	QPSK	715.3	1 RB low	3.48	13	PASS
1.4MHz	QPSK	715.3	100% RB	4.42	13	PASS
1.4MHz	16QAM	715.3	1 RB low	4.34	13	PASS
1.4MHz	16QAM	715.3	100% RB	5.44	13	PASS
1.4MHz	64QAM	715.3	1 RB low	5.26	13	PASS
1.4MHz	64QAM	715.3	100% RB	6.26	13	PASS
1.4MHz	256QAM	715.3	1 RB low	6.26	13	PASS
1.4MHz	256QAM	715.3	100% RB	6.62	13	PASS
3MHz	QPSK	700.5	1 RB low	3.4	13	PASS
3MHz	QPSK	700.5	100% RB	4.24	13	PASS
3MHz	16QAM	700.5	1 RB low	4.34	13	PASS
3MHz	16QAM	700.5	100% RB	5.18	13	PASS
3MHz	64QAM	700.5	1 RB low	5.26	13	PASS
3MHz	64QAM	700.5	100% RB	6.18	13	PASS
3MHz	256QAM	700.5	1 RB low	6.66	13	PASS
3MHz	256QAM	700.5	100% RB	7.14	13	PASS
3MHz	QPSK	707.5	1 RB low	3.2	13	PASS
3MHz	QPSK	707.5	100% RB	4.32	13	PASS
3MHz	16QAM	707.5	1 RB low	4.06	13	PASS
3MHz	16QAM	707.5	100% RB	5.26	13	PASS
3MHz	64QAM	707.5	1 RB low	5.16	13	PASS
3MHz	64QAM	707.5	100% RB	6.26	13	PASS
3MHz	256QAM	707.5	1 RB low	7.26	13	PASS
3MHz	256QAM	707.5	100% RB	7	13	PASS
3MHz	QPSK	714.5	1 RB low	3.48	13	PASS
3MHz	QPSK	714.5	100% RB	4.5	13	PASS
3MHz	16QAM	714.5	1 RB low	4.52	13	PASS
3MHz	16QAM	714.5	100% RB	5.34	13	PASS

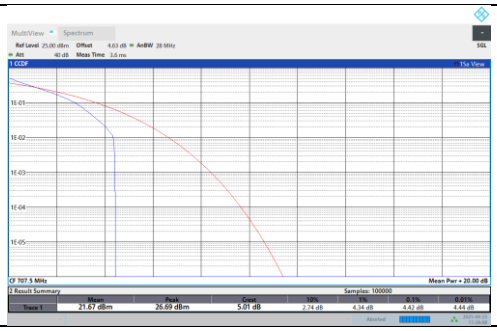
3MHz	64QAM	714.5	1 RB low	5.36	13	PASS
3MHz	64QAM	714.5	100% RB	6.44	13	PASS
3MHz	256QAM	714.5	1 RB low	6.5	13	PASS
3MHz	256QAM	714.5	100% RB	7.04	13	PASS
5MHz	QPSK	701.5	1 RB low	3.3	13	PASS
5MHz	QPSK	701.5	100% RB	4.14	13	PASS
5MHz	16QAM	701.5	1 RB low	4.24	13	PASS
5MHz	16QAM	701.5	100% RB	5.08	13	PASS
5MHz	64QAM	701.5	1 RB low	5.26	13	PASS
5MHz	64QAM	701.5	100% RB	6.18	13	PASS
5MHz	256QAM	701.5	1 RB low	7.12	13	PASS
5MHz	256QAM	701.5	100% RB	6.94	13	PASS
5MHz	QPSK	707.5	1 RB low	3.2	13	PASS
5MHz	QPSK	707.5	100% RB	4.24	13	PASS
5MHz	16QAM	707.5	1 RB low	3.96	13	PASS
5MHz	16QAM	707.5	100% RB	5.36	13	PASS
5MHz	64QAM	707.5	1 RB low	4.8	13	PASS
5MHz	64QAM	707.5	100% RB	6.26	13	PASS
5MHz	256QAM	707.5	1 RB low	7.1	13	PASS
5MHz	256QAM	707.5	100% RB	7.08	13	PASS
5MHz	QPSK	713.5	1 RB low	3.48	13	PASS
5MHz	QPSK	713.5	100% RB	4.32	13	PASS
5MHz	16QAM	713.5	1 RB low	4.42	13	PASS
5MHz	16QAM	713.5	100% RB	5.36	13	PASS
5MHz	64QAM	713.5	1 RB low	5.46	13	PASS
5MHz	64QAM	713.5	100% RB	6.42	13	PASS
5MHz	256QAM	713.5	1 RB low	7.4	13	PASS
5MHz	256QAM	713.5	100% RB	7	13	PASS
10MHz	QPSK	704	1 RB low	4.24	13	PASS
10MHz	QPSK	704	100% RB	5.24	13	PASS
10MHz	16QAM	704	1 RB low	4.14	13	PASS
10MHz	16QAM	704	100% RB	5.16	13	PASS
10MHz	64QAM	704	1 RB low	4.98	13	PASS
10MHz	64QAM	704	100% RB	6.1	13	PASS
10MHz	256QAM	704	1 RB low	7.08	13	PASS
10MHz	256QAM	704	100% RB	7.02	13	PASS
10MHz	QPSK	707.5	1 RB low	4.24	13	PASS
10MHz	QPSK	707.5	100% RB	5.24	13	PASS
10MHz	16QAM	707.5	1 RB low	4.06	13	PASS
10MHz	16QAM	707.5	100% RB	5.36	13	PASS
10MHz	64QAM	707.5	1 RB low	5.18	13	PASS
10MHz	64QAM	707.5	100% RB	6.26	13	PASS
10MHz	256QAM	707.5	1 RB low	7.16	13	PASS
10MHz	256QAM	707.5	100% RB	6.94	13	PASS
10MHz	QPSK	711	1 RB low	4.22	13	PASS
10MHz	QPSK	711	100% RB	5.1	13	PASS
10MHz	16QAM	711	1 RB low	4.06	13	PASS
10MHz	16QAM	711	100% RB	5.44	13	PASS
10MHz	64QAM	711	1 RB low	4.98	13	PASS
10MHz	64QAM	711	100% RB	6.34	13	PASS
10MHz	256QAM	711	1 RB low	6.54	13	PASS
10MHz	256QAM	711	100% RB	7	13	PASS

Test Graphs

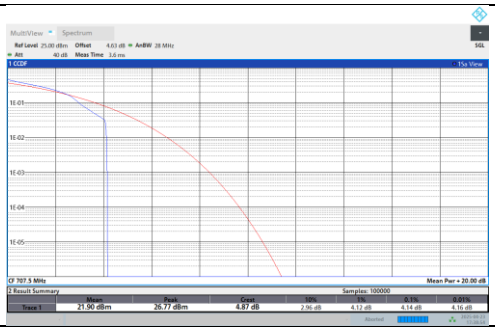
Band 12-1.4M-LOW-1 RB low	Band 12-1.4M-LOW-100% RB
	
Band 12-1.4M-LOW-1 RB low	Band 12-1.4M-LOW-100% RB
	
Band 12-1.4M-LOW-1 RB low	Band 12-1.4M-LOW-100% RB
	
Band 12-1.4M-LOW-1 RB low	Band 12-1.4M-LOW-100% RB
	
Band 12-1.4M-MID-1 RB low	Band 12-1.4M-MID-100% RB



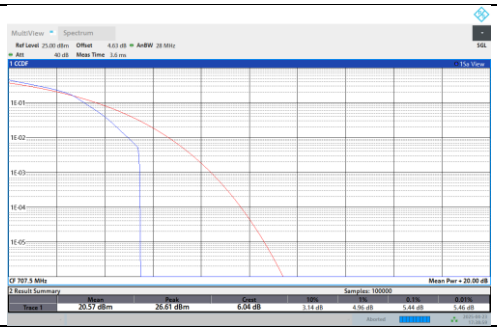
Band 12-1.4M-MID-1 RB low



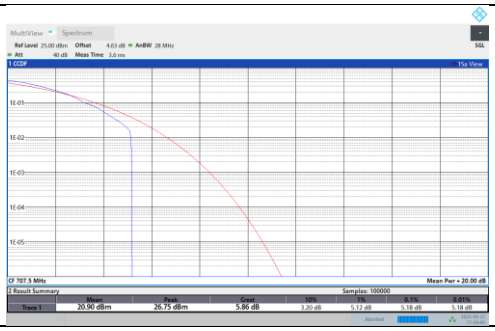
Band 12-1.4M-MID-100% RB



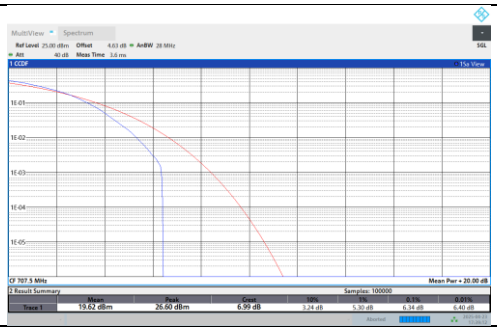
Band 12-1.4M-MID-1 RB low



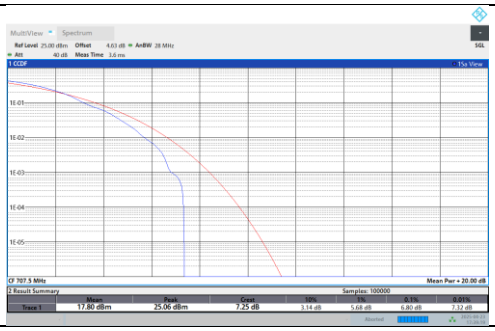
Band 12-1.4M-MID-100% RB



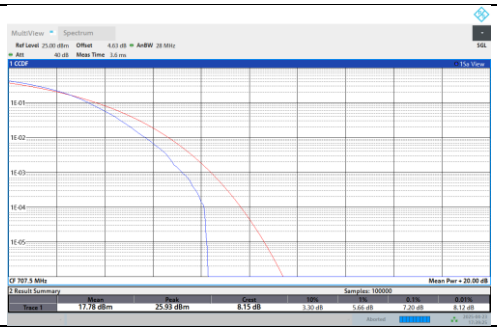
Band 12-1.4M-MID-1 RB low



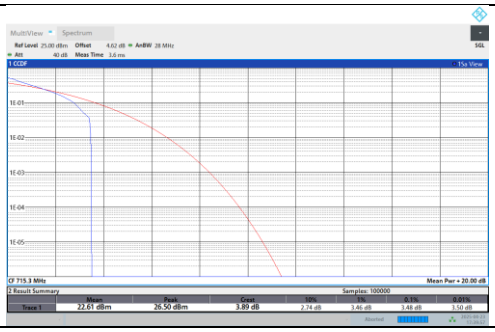
Band 12-1.4M-MID-100% RB



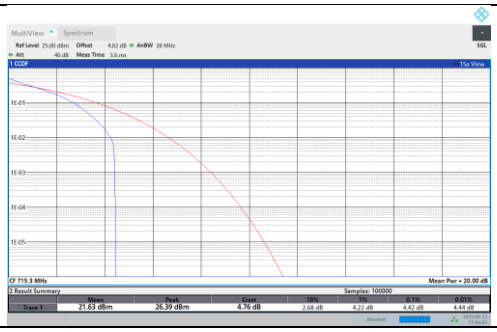
Band 12-1.4M-HIGH-1 RB low



Band 12-1.4M-HIGH-100% RB



Band 12-1.4M-HIGH-1 RB low



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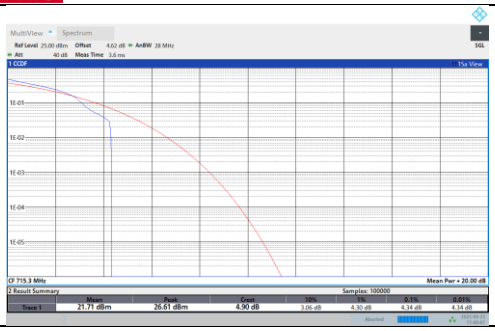
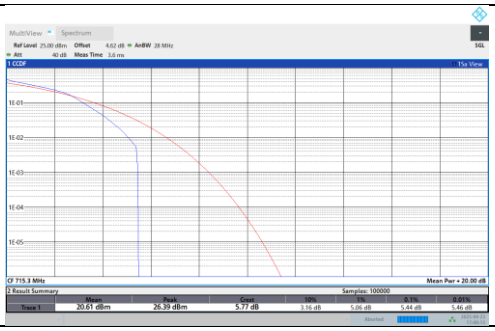


Band 12-1.4M-HIGH-1 RB low



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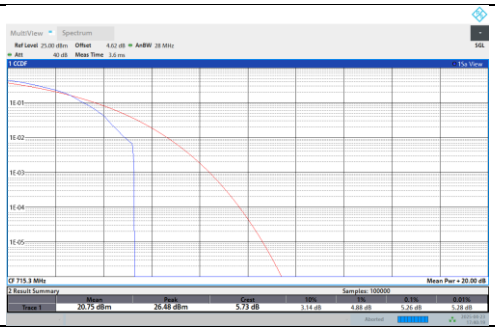

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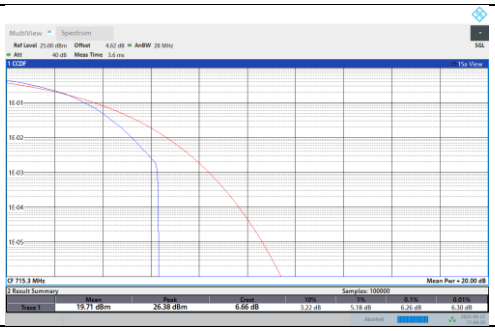

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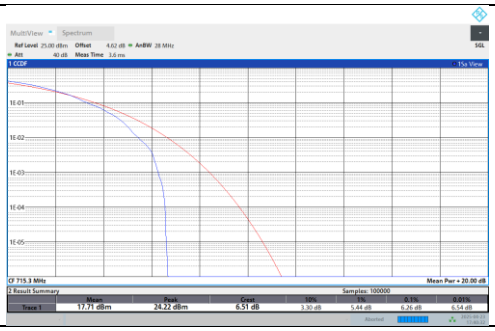
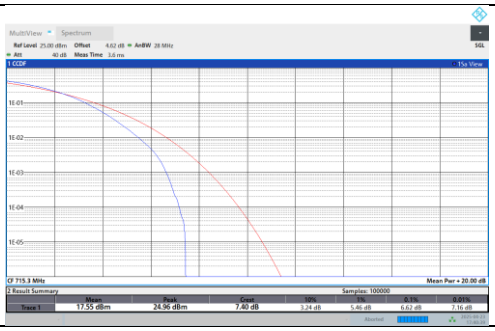


Band 12-3M-LOW-1 RB low



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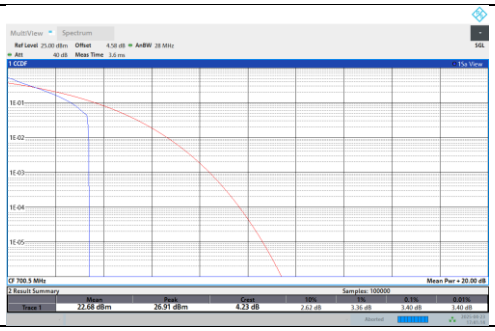

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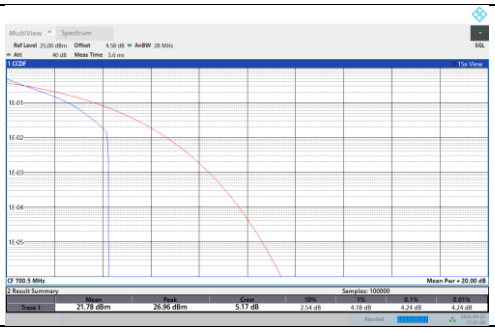

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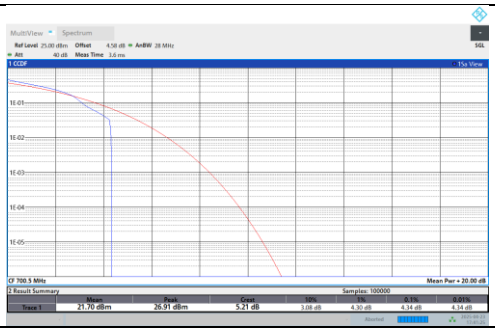

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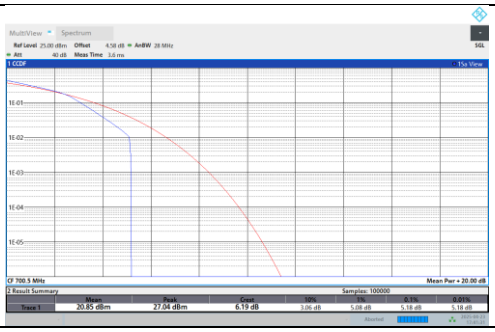

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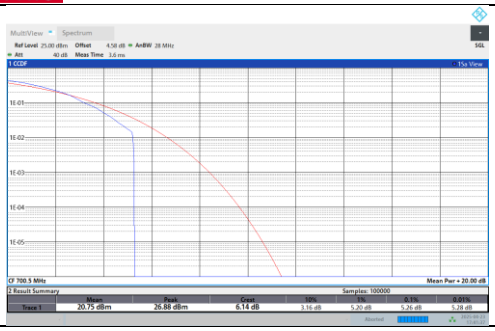

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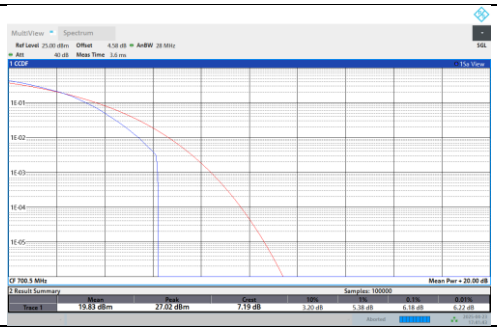

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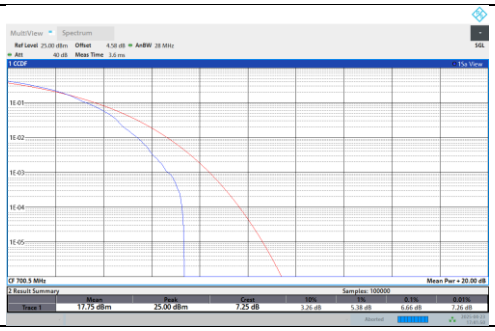

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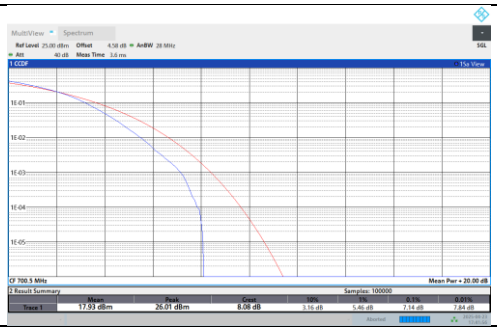

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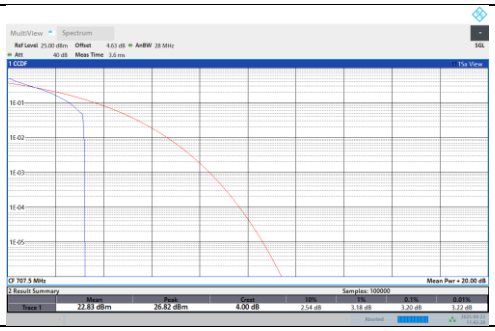

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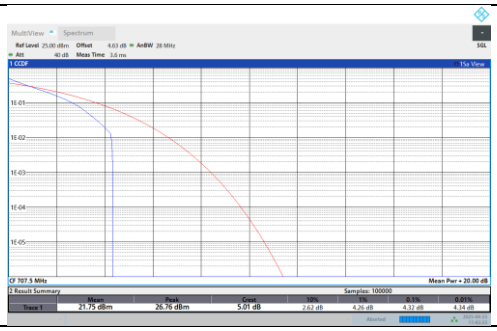

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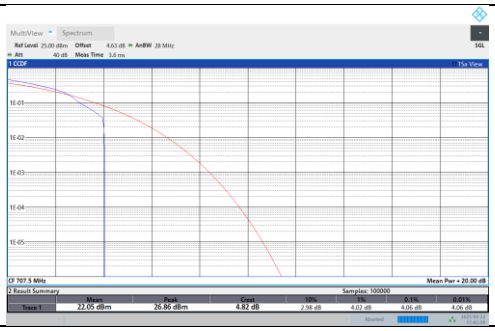

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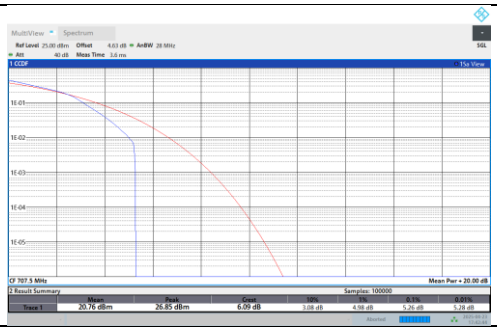

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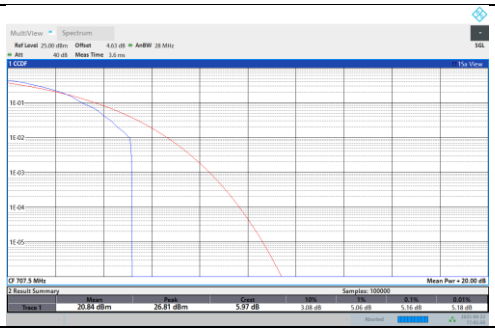

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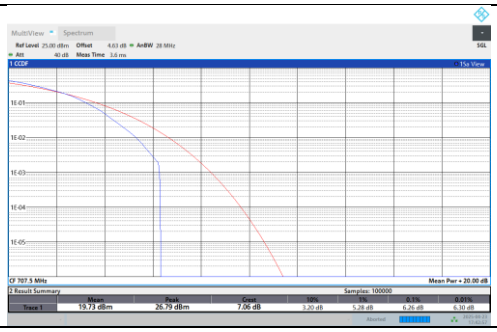

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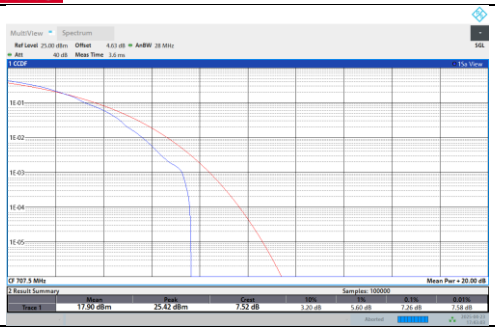

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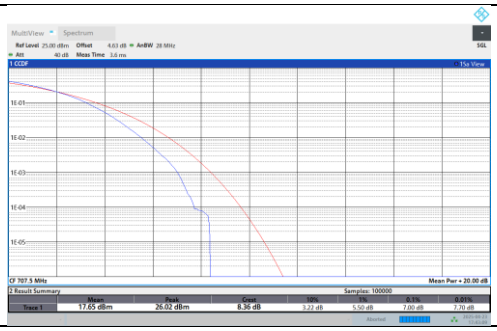

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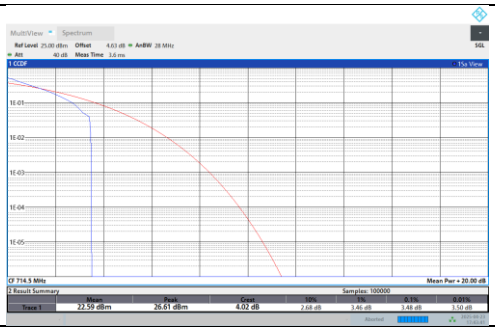

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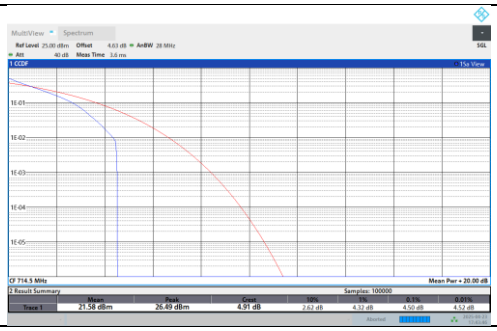

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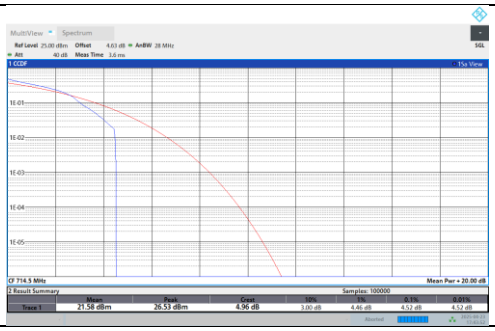

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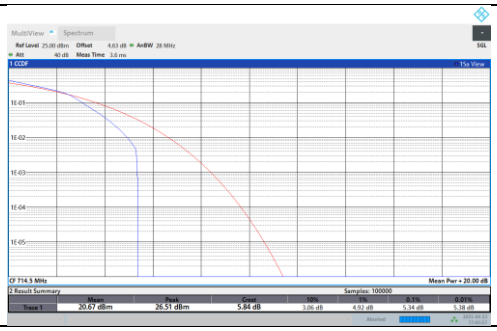

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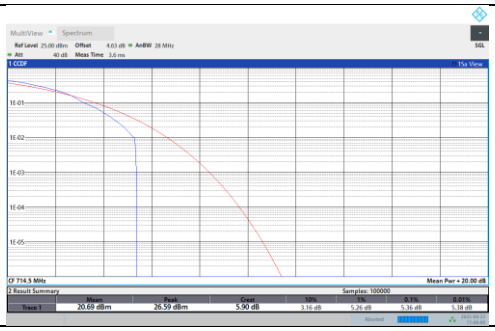
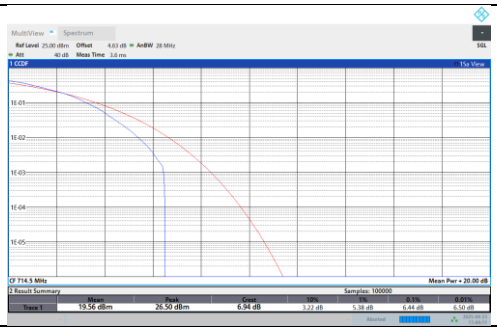


Band 12-3M-HIGH-1 RB low



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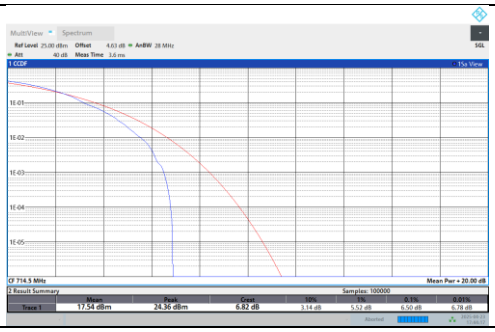
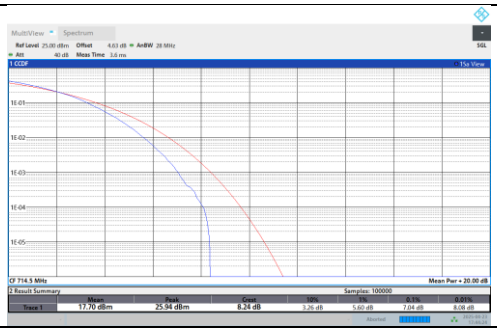
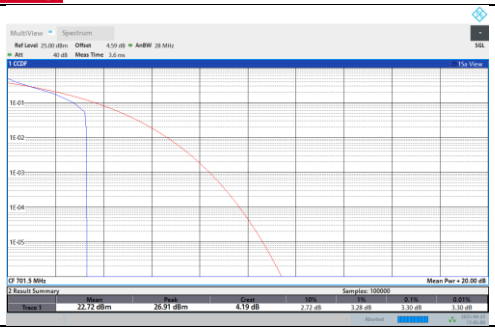


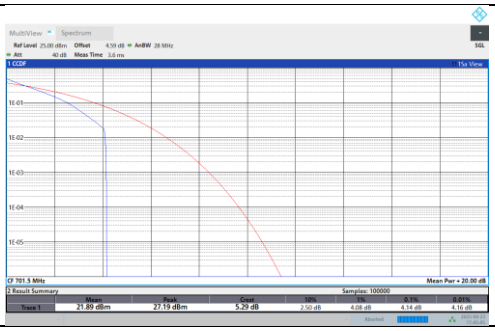
Band 12-5M-LOW-1 RB low



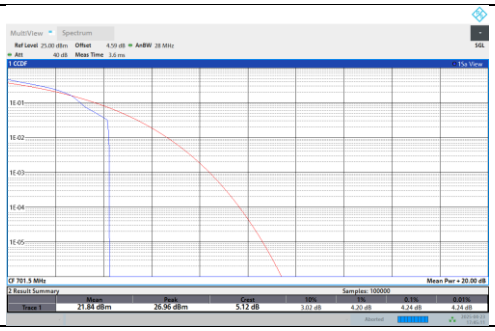
Band 12-5M-LOW-100% RB



Band 12-5M-LOW-1 RB low



Band 12-5M-LOW-100% RB



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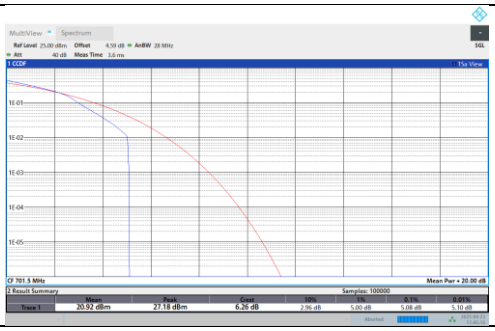

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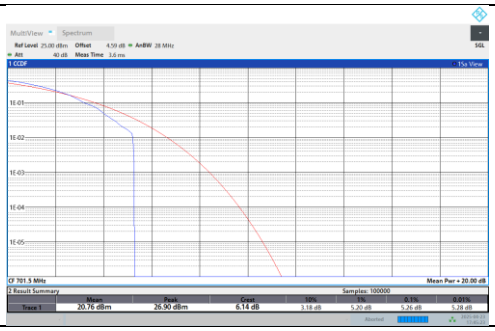

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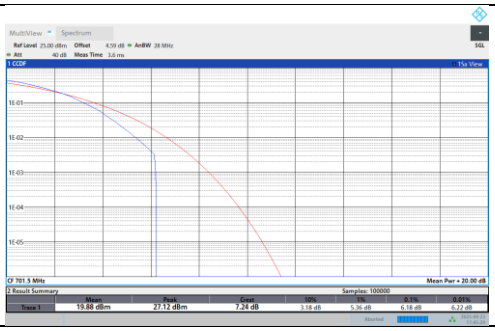

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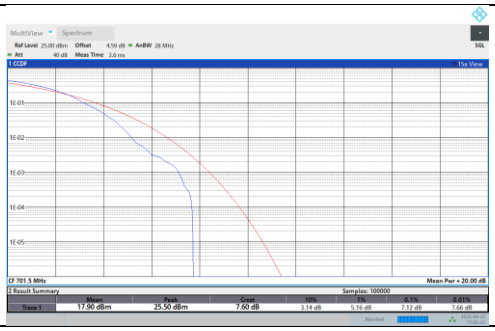

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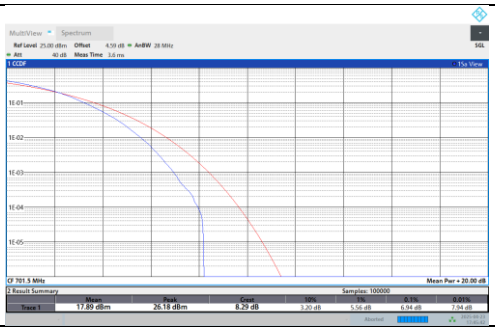

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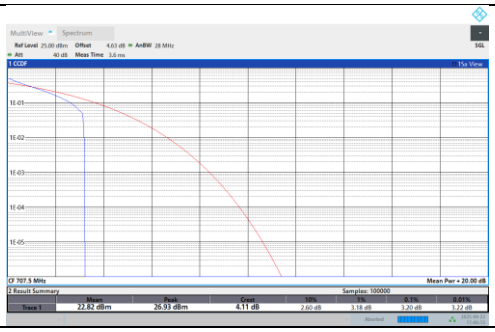

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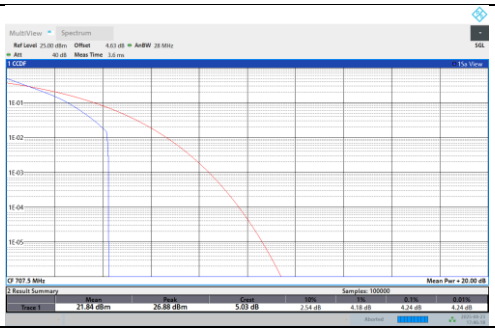

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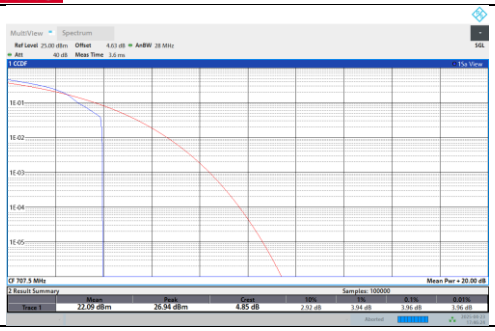

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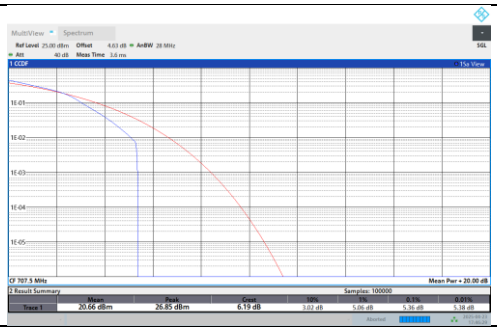

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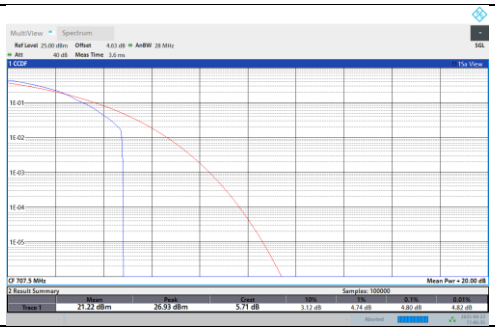

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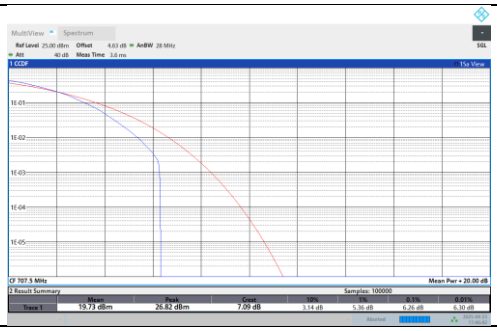

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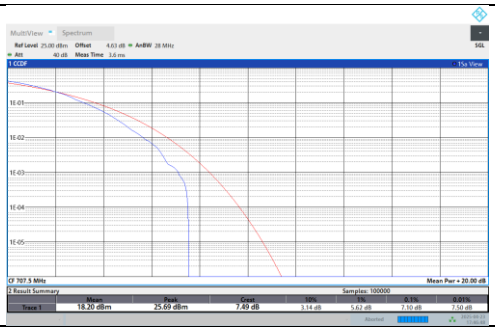
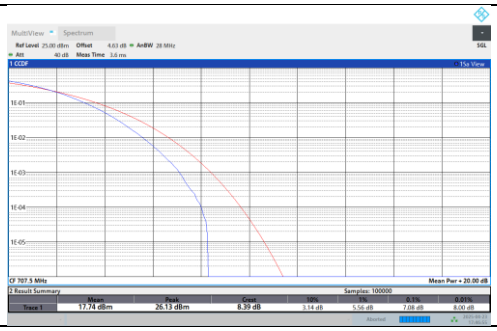
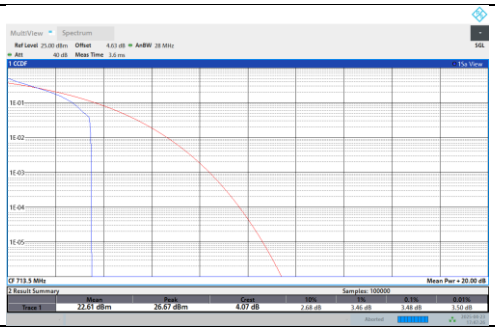


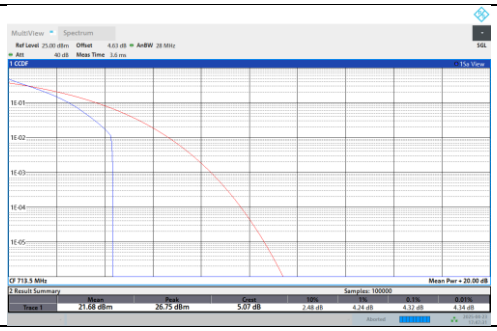
Band 12-5M-HIGH-1 RB low



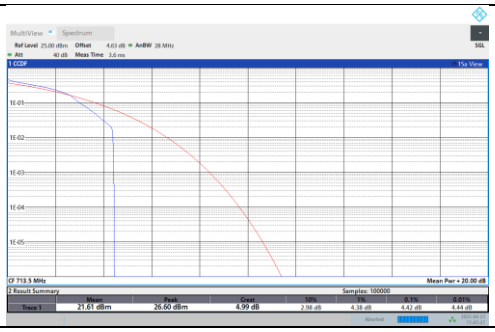
Band 12-5M-HIGH-100% RB



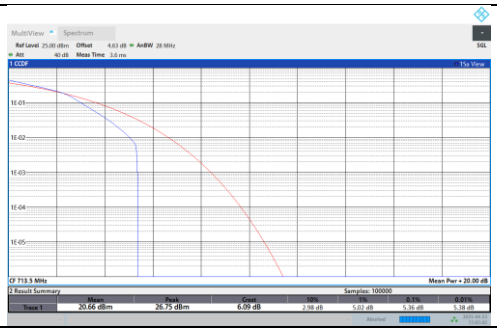
Band 12-5M-HIGH-1 RB low



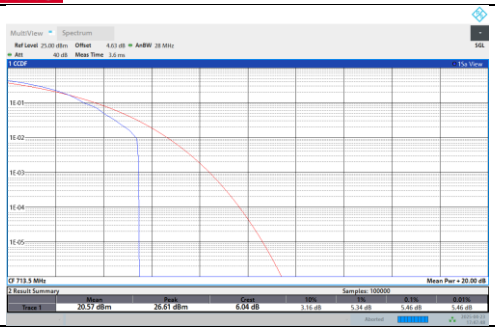
Band 12-5M-HIGH-100% RB



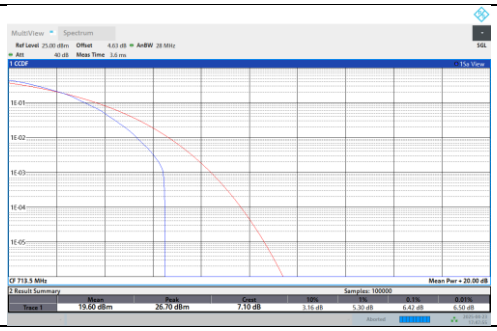
Band 12-5M-HIGH-1 RB low



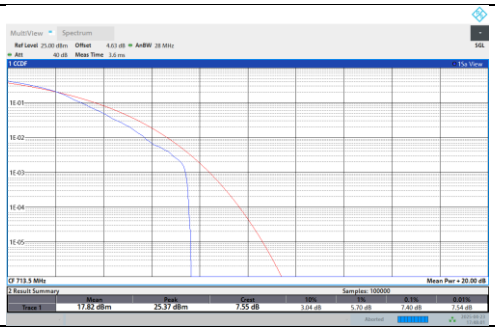
Band 12-5M-HIGH-100% RB



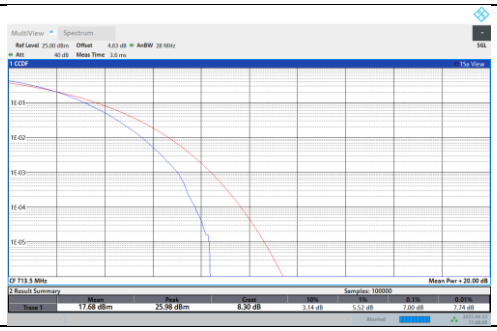
Band 12-5M-HIGH-1 RB low



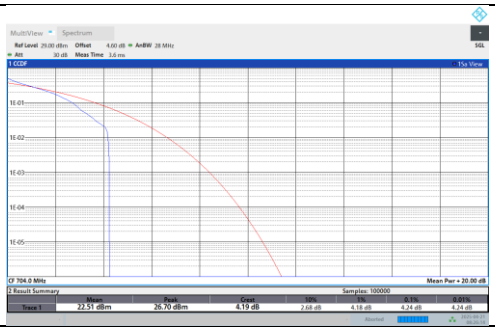
Band 12-5M-HIGH-100% RB



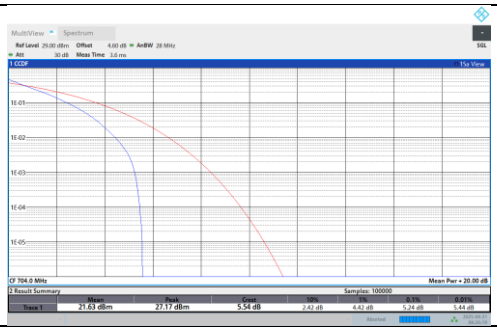
Band 12-10M-LOW-1 RB low



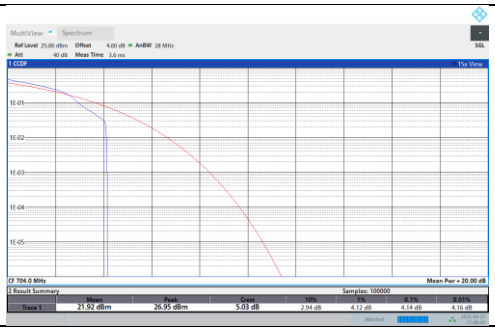
Band 12-10M-LOW-100% RB



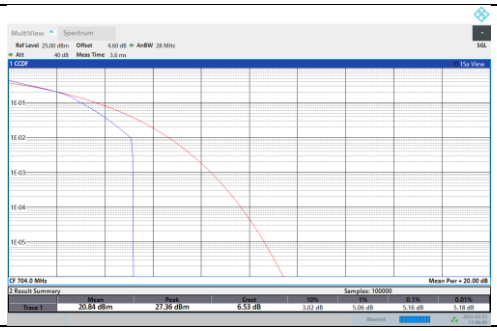
Band 12-10M-LOW-1 RB low



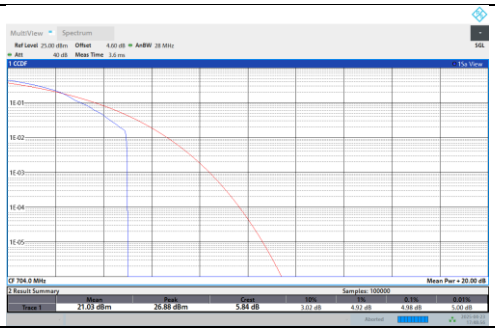
Band 12-10M-LOW-100% RB



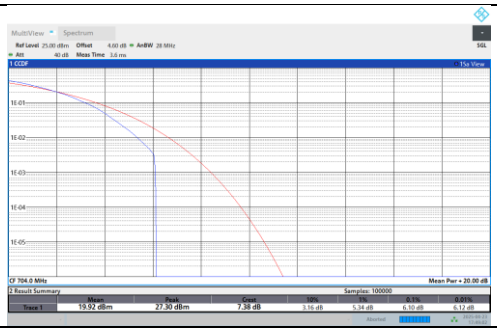
Band 12-10M-LOW-1 RB low



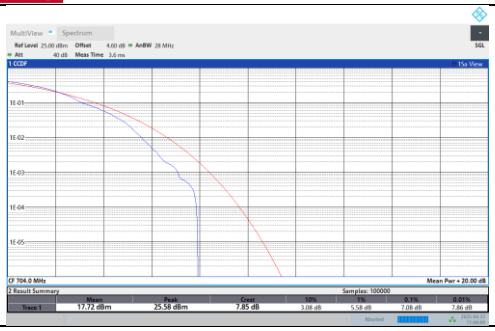
Band 12-10M-LOW-100% RB



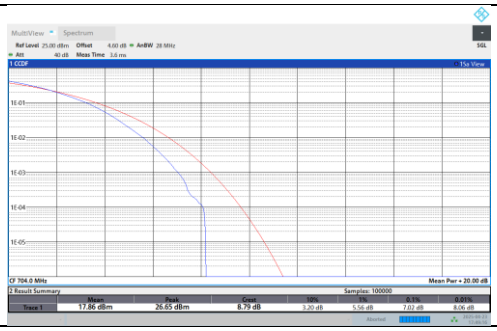
Band 12-10M-LOW-1 RB low



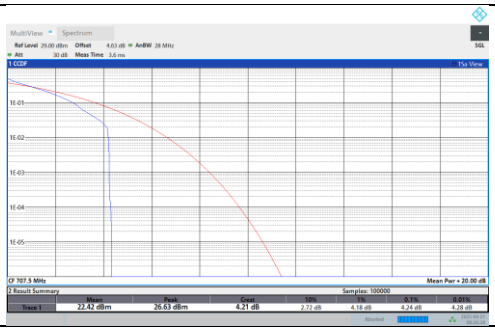
Band 12-10M-LOW-100% RB



Band 12-10M-MID-1 RB low



Band 12-10M-MID-100% RB



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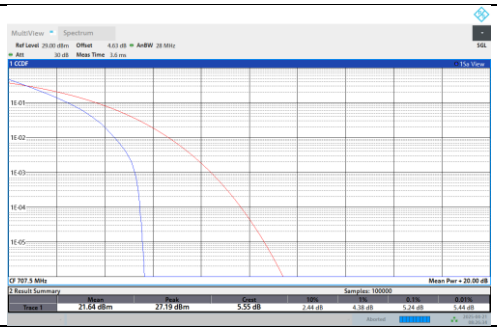

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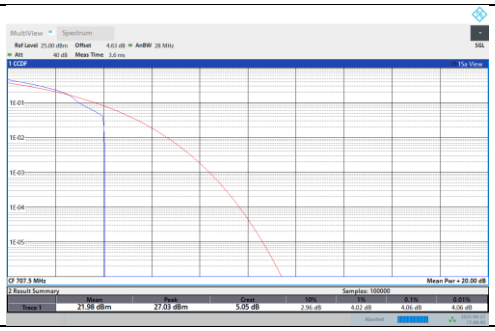

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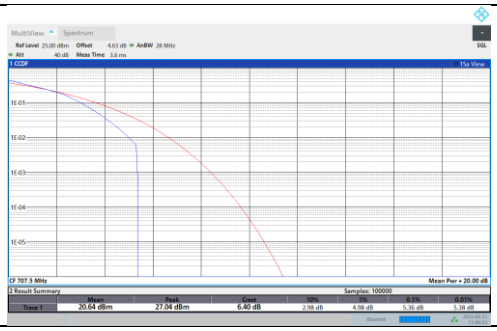

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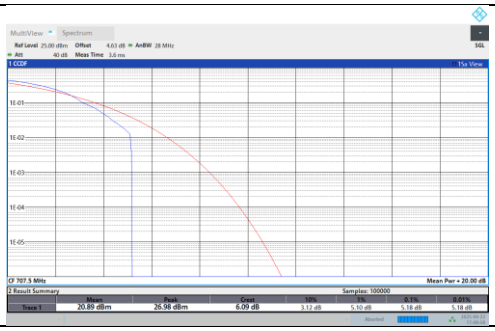

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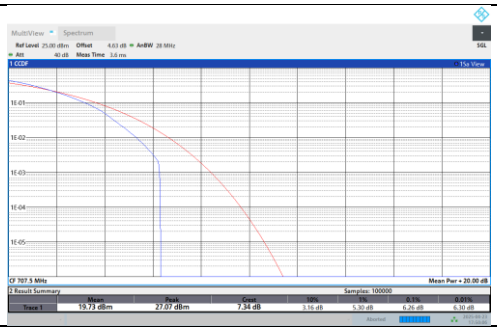

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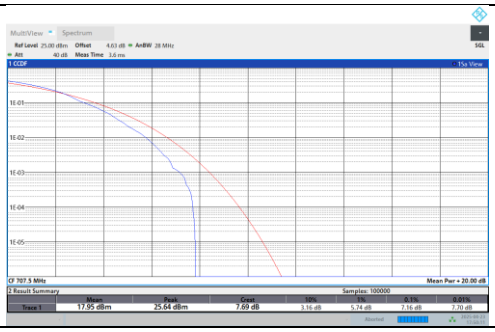
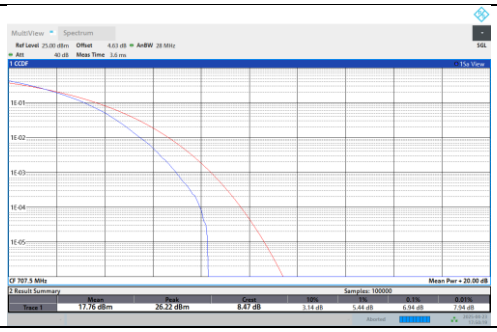


Band 12-10M-HIGH-1 RB low



Band 12-10M-HIGH-100% RB