

Appendix N: Test Data for E-UTRA Band 25

Product Name: Zettle Terminal
Trade Mark: Zettle Terminal
Test Model: Zettle Terminal

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

N.1 Effective (Isotropic) Radiated Power Output Data

Test Result

A.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.44	22.81	PASS
		1	3	23.22	22.87	PASS
		1	5	23.13	22.56	PASS
		3	0	23.35	22.32	PASS
		3	2	23.20	22.30	PASS
		3	3	23.15	22.21	PASS
		6	0	23.19	22.12	PASS
	MCH	1	0	22.98	22.13	PASS
		1	3	22.85	22.13	PASS
		1	5	22.71	22.07	PASS
		3	0	22.77	22.04	PASS
		3	2	22.78	21.95	PASS
		3	3	22.75	21.92	PASS
		6	0	21.85	20.87	PASS
	HCH	1	0	22.78	21.99	PASS
		1	3	22.81	22.48	PASS
		1	5	23.01	21.99	PASS
		3	0	22.87	22.11	PASS
		3	2	23.03	21.98	PASS
		3	3	22.92	21.94	PASS
		6	0	22.02	20.90	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.02	21.98	PASS
		1	7	23.31	22.15	PASS
		1	14	22.94	22.05	PASS
		8	0	21.96	22.06	PASS
		8	4	21.97	21.97	PASS
		8	7	22.14	22.06	PASS
		15	0	22.18	22.20	PASS
	MCH	1	0	22.86	22.45	PASS

		1	7	22.69	22.18	PASS
		1	14	22.61	21.91	PASS
		8	0	21.84	20.95	PASS
		8	4	21.82	20.94	PASS
		8	7	21.73	20.82	PASS
		15	0	21.81	20.83	PASS
	HCH	1	0	22.74	21.91	PASS
		1	7	23.23	22.21	PASS
		1	14	22.64	21.86	PASS
		8	0	21.95	21.15	PASS
		8	4	22.02	21.07	PASS
		8	7	21.86	21.02	PASS
		15	0	22.09	21.00	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.99	22.14	PASS
		1	12	22.80	21.74	PASS
		1	24	23.05	22.11	PASS
		12	0	22.08	21.17	PASS
		12	6	22.12	21.17	PASS
		12	13	22.08	21.17	PASS
		25	0	21.17	21.17	PASS
	MCH	1	0	23.10	22.54	PASS
		1	12	22.80	22.27	PASS
		1	24	22.54	21.96	PASS
		12	0	21.97	21.13	PASS
		12	6	21.87	21.04	PASS
		12	13	21.84	20.93	PASS
		25	0	21.88	20.87	PASS
	HCH	1	0	22.90	22.28	PASS
		1	12	22.62	22.08	PASS
		1	24	22.17	21.93	PASS
		12	0	22.12	21.16	PASS
		12	6	22.00	21.23	PASS
		12	13	21.98	21.09	PASS
		25	0	22.14	21.19	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.97	22.14	PASS
		1	24	21.92	20.98	PASS
		1	49	22.84	22.50	PASS
		25	0	22.22	21.24	PASS
		25	12	22.19	21.24	PASS
		25	25	22.26	21.27	PASS
		50	0	21.26	21.20	PASS
	MCH	1	0	23.38	22.68	PASS
		1	24	22.84	21.91	PASS
		1	49	23.12	21.97	PASS
		25	0	22.05	21.09	PASS
		25	12	21.87	20.91	PASS
		25	25	21.71	20.86	PASS
		50	0	21.83	20.87	PASS
	HCH	1	0	22.86	22.03	PASS
		1	24	23.64	22.14	PASS
		1	49	21.21	20.34	PASS
		25	0	21.81	20.96	PASS
		25	12	21.92	21.13	PASS
		25	25	21.97	21.24	PASS
		50	0	21.95	21.02	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.50	22.13	PASS
		1	37	22.48	21.62	PASS
		1	74	22.83	22.53	PASS
		37	0	21.97	21.01	PASS
		37	18	21.95	21.01	PASS
		37	38	21.87	21.04	PASS
		75	0	21.01	21.02	PASS
	MCH	1	0	23.20	22.52	PASS
		1	37	23.02	21.99	PASS
		1	74	22.27	21.53	PASS
		37	0	22.04	21.00	PASS
		37	18	21.89	20.94	PASS
		37	38	21.64	20.69	PASS
		75	0	21.79	20.85	PASS
	HCH	1	0	22.31	21.66	PASS
		1	37	22.79	21.85	PASS
		1	74	20.81	21.25	PASS
		37	0	21.56	20.63	PASS
		37	18	21.74	20.85	PASS
		37	38	21.99	21.03	PASS
		75	0	21.72	20.76	PASS

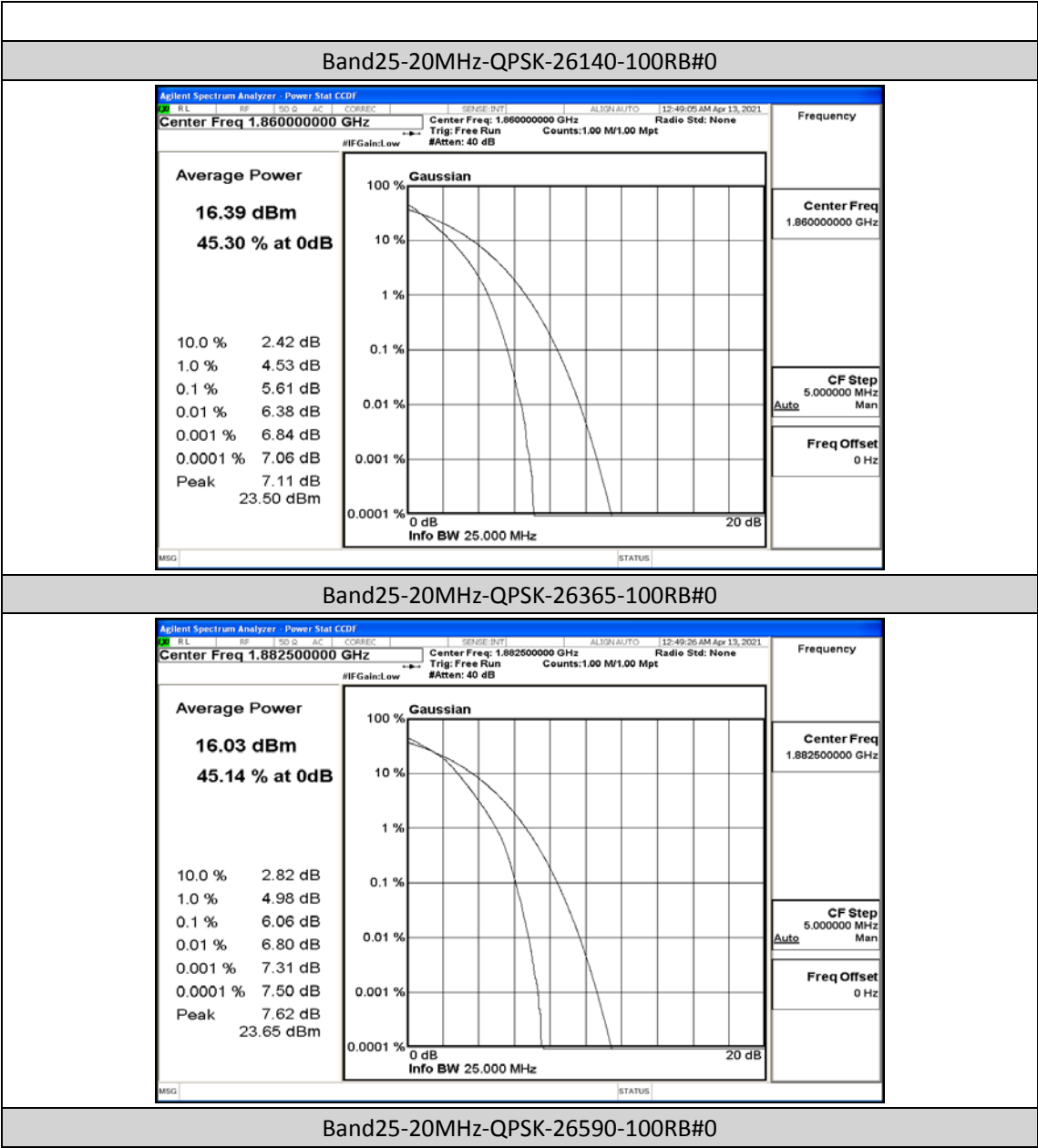
Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.40	21.98	PASS
		1	49	22.55	21.89	PASS
		1	99	22.73	21.81	PASS
		50	0	21.74	20.79	PASS
		50	25	21.95	20.82	PASS
		50	50	21.90	20.96	PASS
		100	0	21.01	21.00	PASS
	MCH	1	0	23.19	22.55	PASS
		1	49	22.69	22.06	PASS
		1	99	21.99	21.28	PASS
		50	0	22.05	21.17	PASS
		50	25	21.82	20.81	PASS
		50	50	21.46	20.43	PASS
		100	0	21.73	20.77	PASS
	HCH	1	0	22.18	21.23	PASS
		1	49	22.64	21.81	PASS
		1	99	21.89	21.00	PASS
		50	0	21.27	20.33	PASS
		50	25	21.62	20.66	PASS
		50	50	21.66	20.75	PASS
		100	0	21.68	20.64	PASS

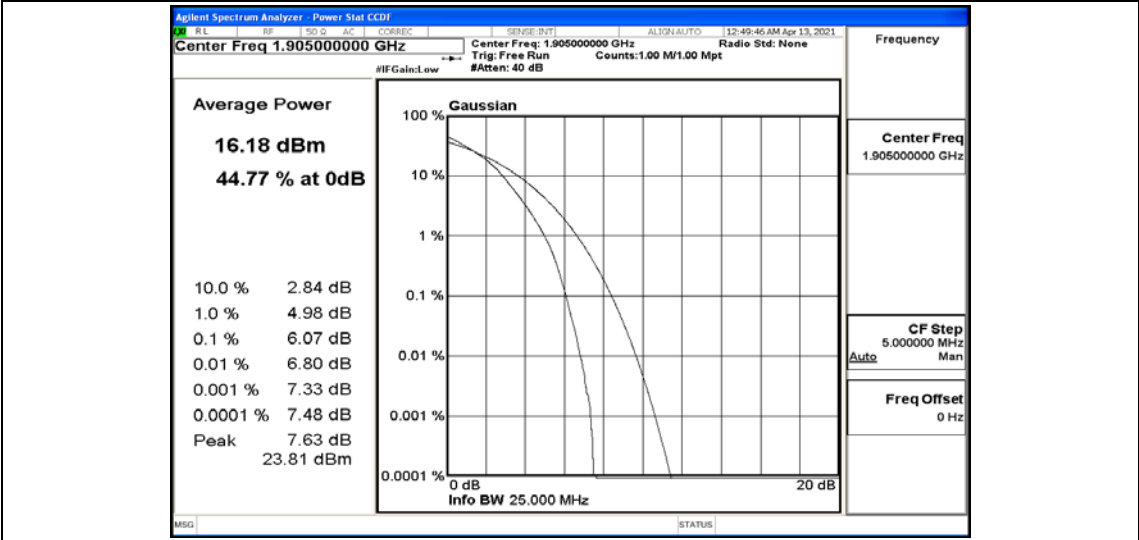
N.2 Peak-to-Average Ratio(CCDF)

Test Result

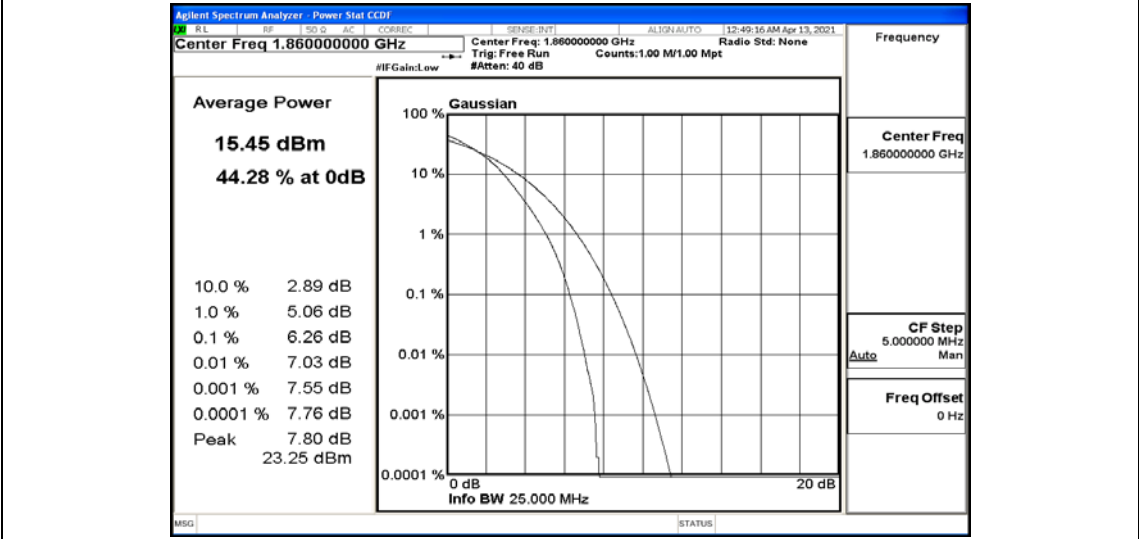
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	5.61	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	6.06	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	6.07	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.26	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.07	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.08	13	PASS

Test Graphs

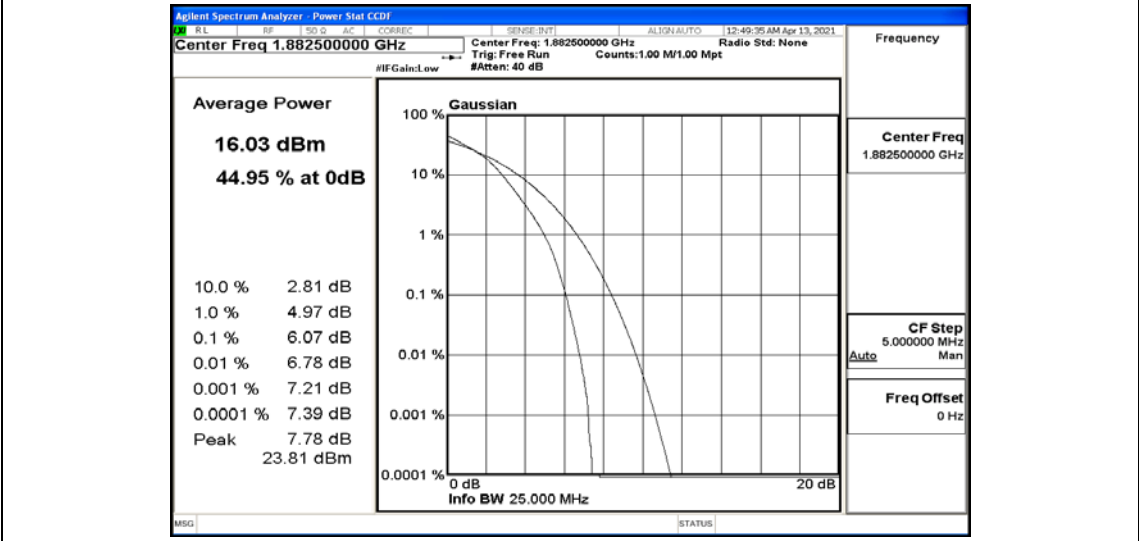




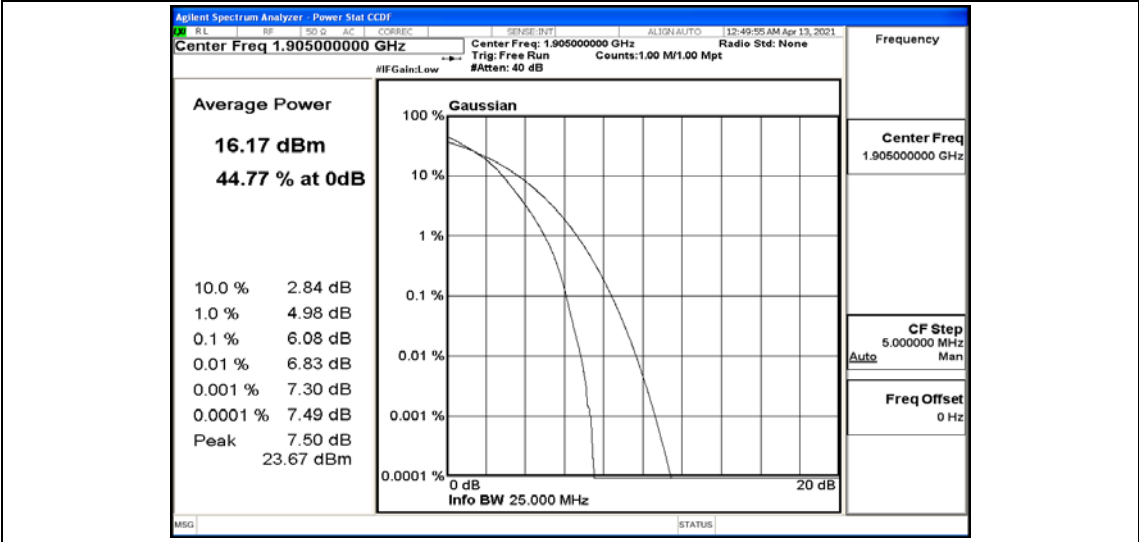
Band25-20MHz-16QAM-26140-100RB#0



Band25-20MHz-16QAM-26365-100RB#0



Band25-20MHz-16QAM-26590-100RB#0

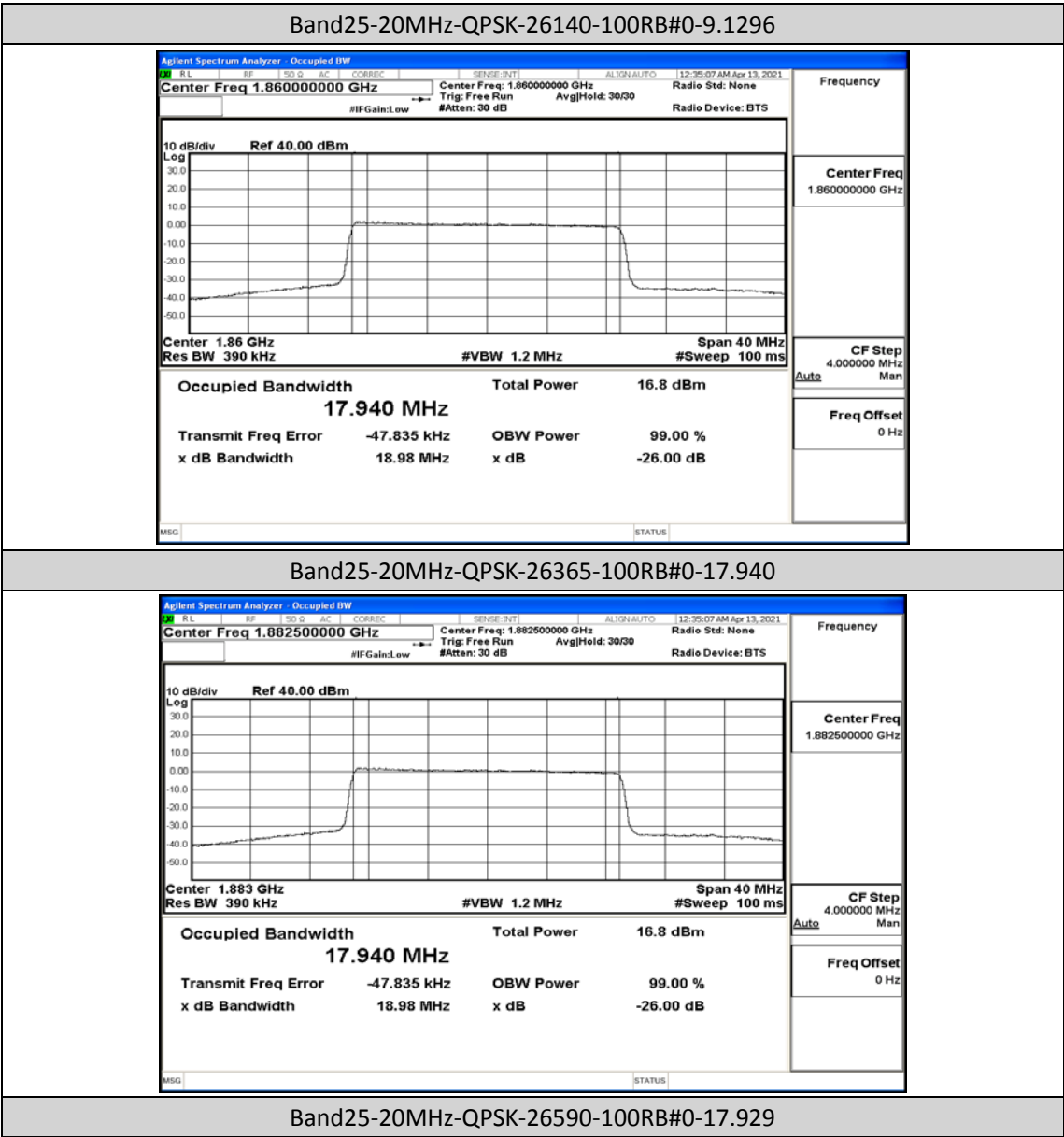


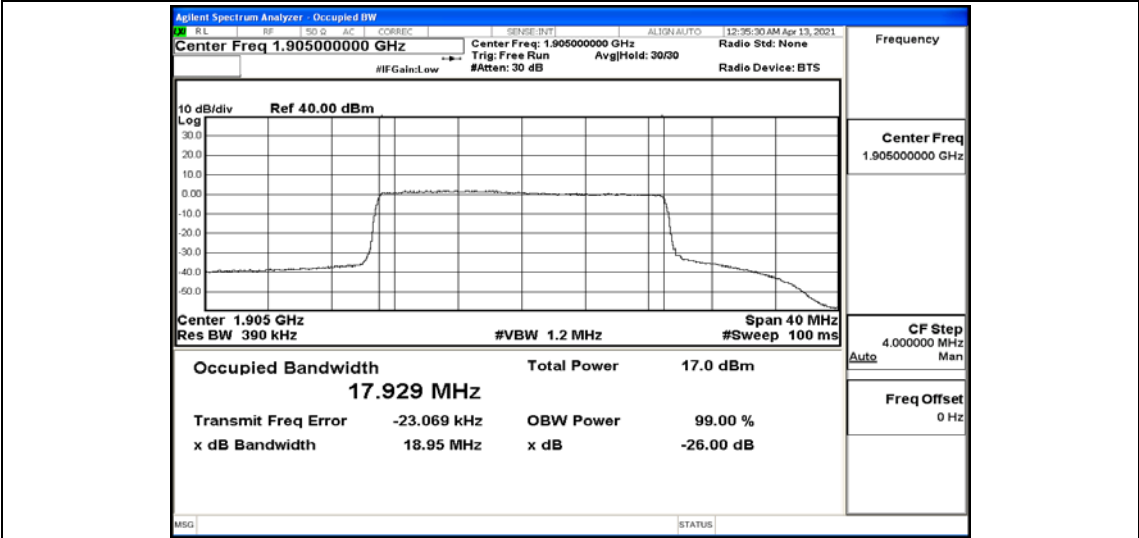
N.3 26dB Bandwidth and Occupied Bandwidth

Test Result

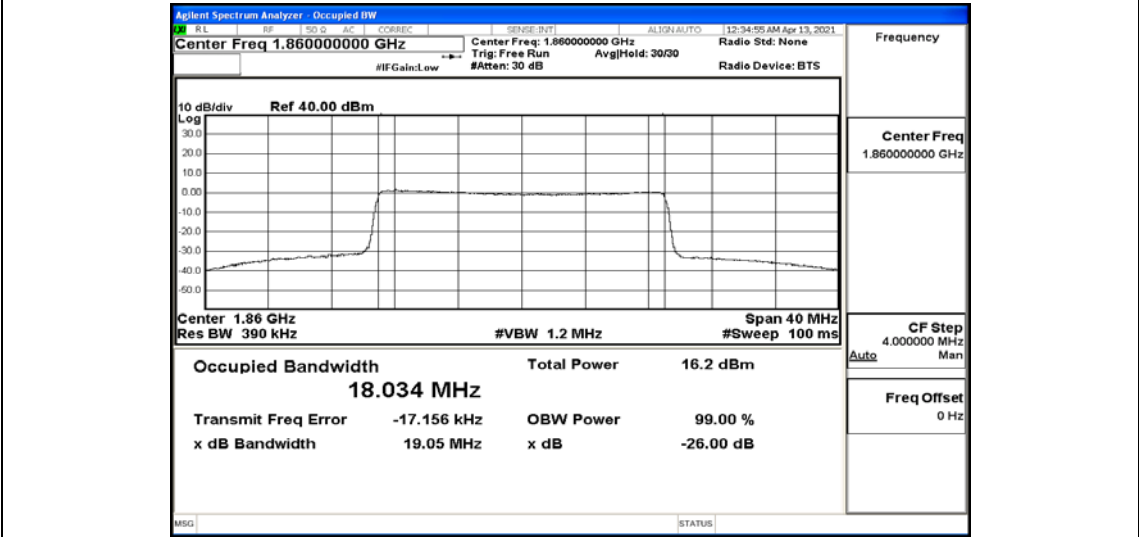
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	9.1296	10.02	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.940	18.98	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.929	18.95	PASS
Band25	20MHz	16QAM	26140	100RB#0	18.034	19.05	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.943	18.97	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.913	18.98	PASS

Test Graphs

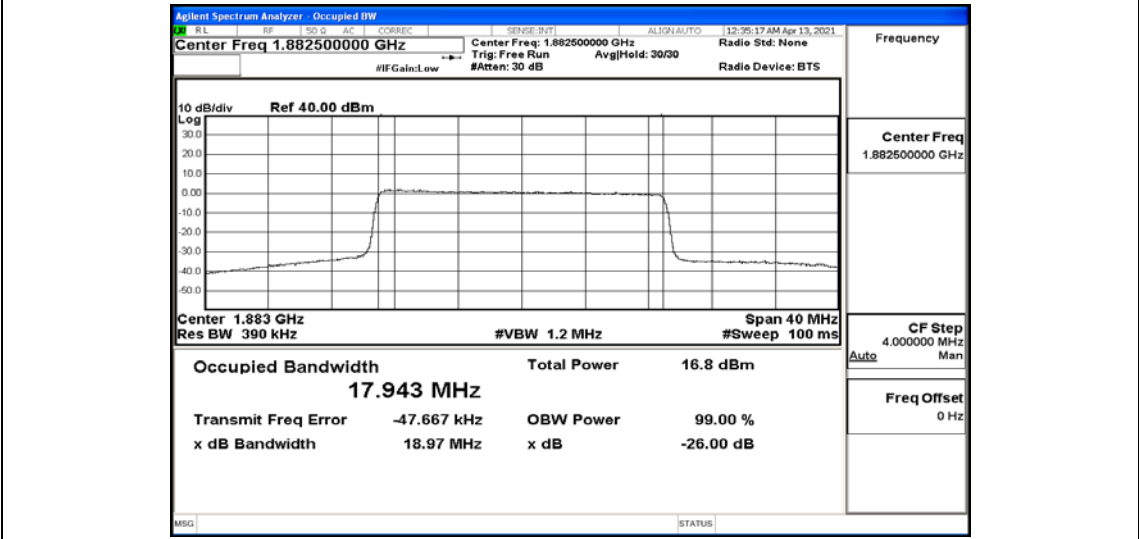




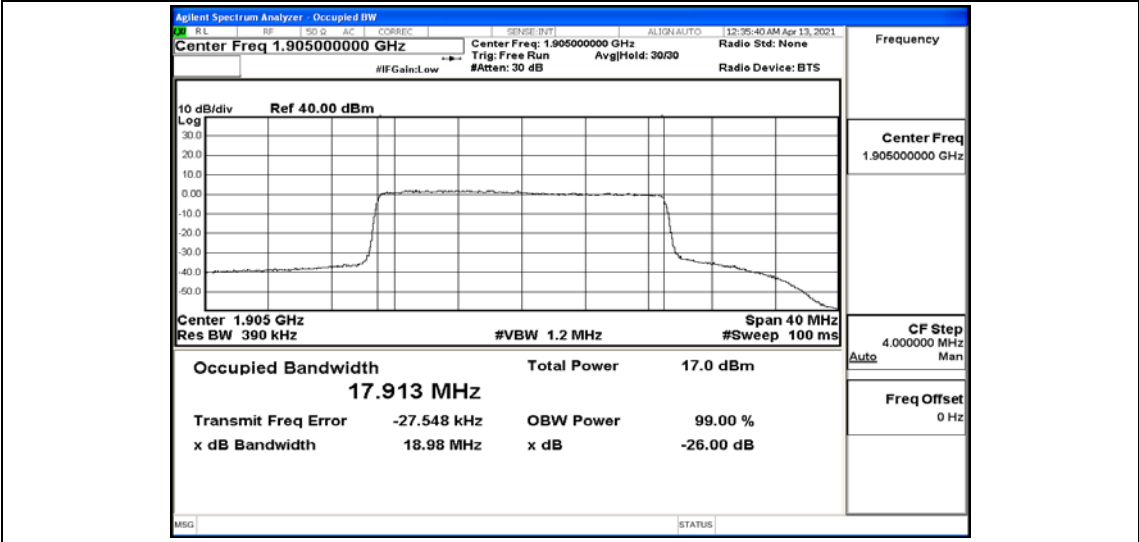
Band25-20MHz-16QAM-26140-100RB#0-18.034



Band25-20MHz-16QAM-26365-100RB#0-17.943



Band25-20MHz-16QAM-26590-100RB#0-17.913

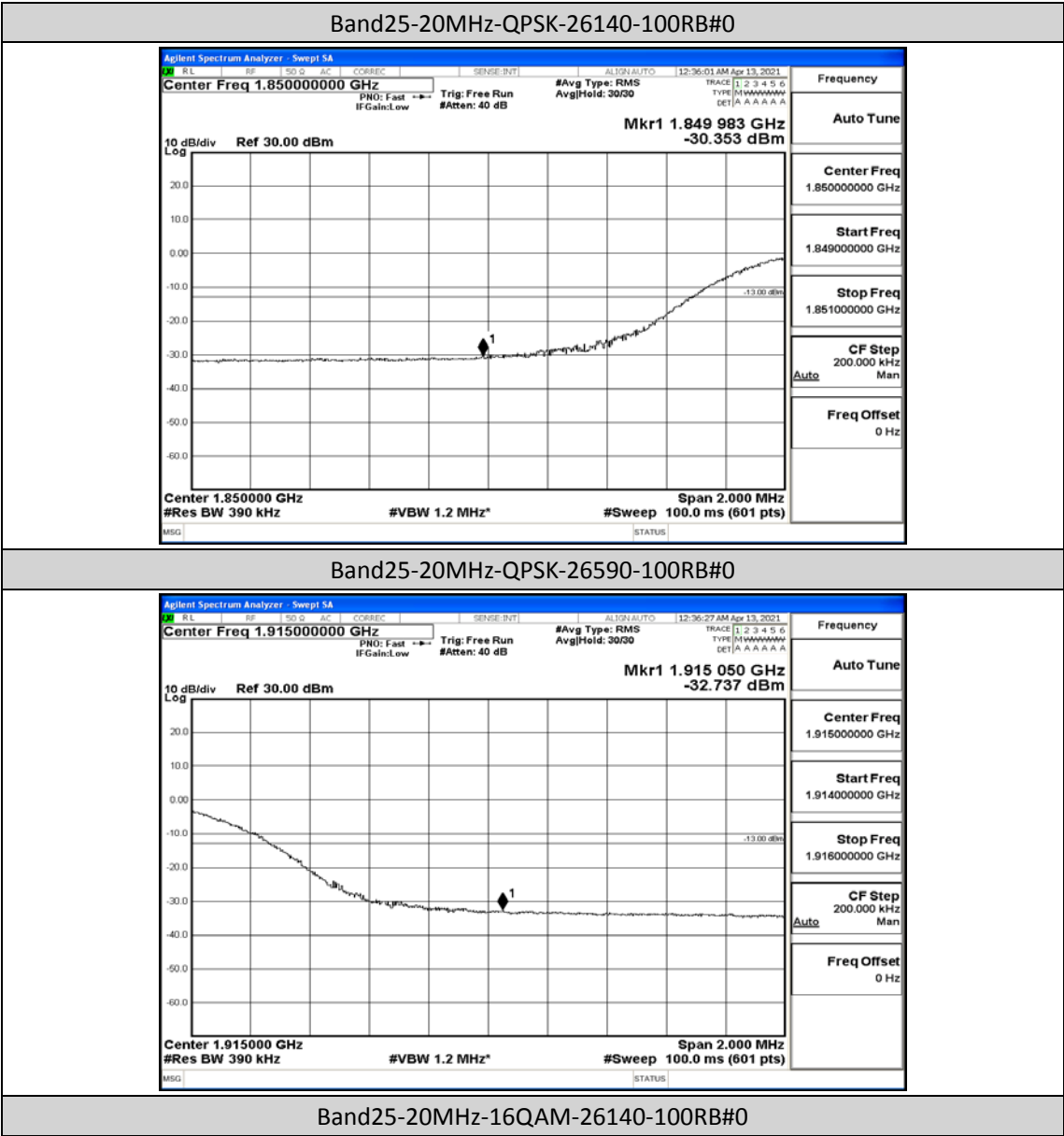


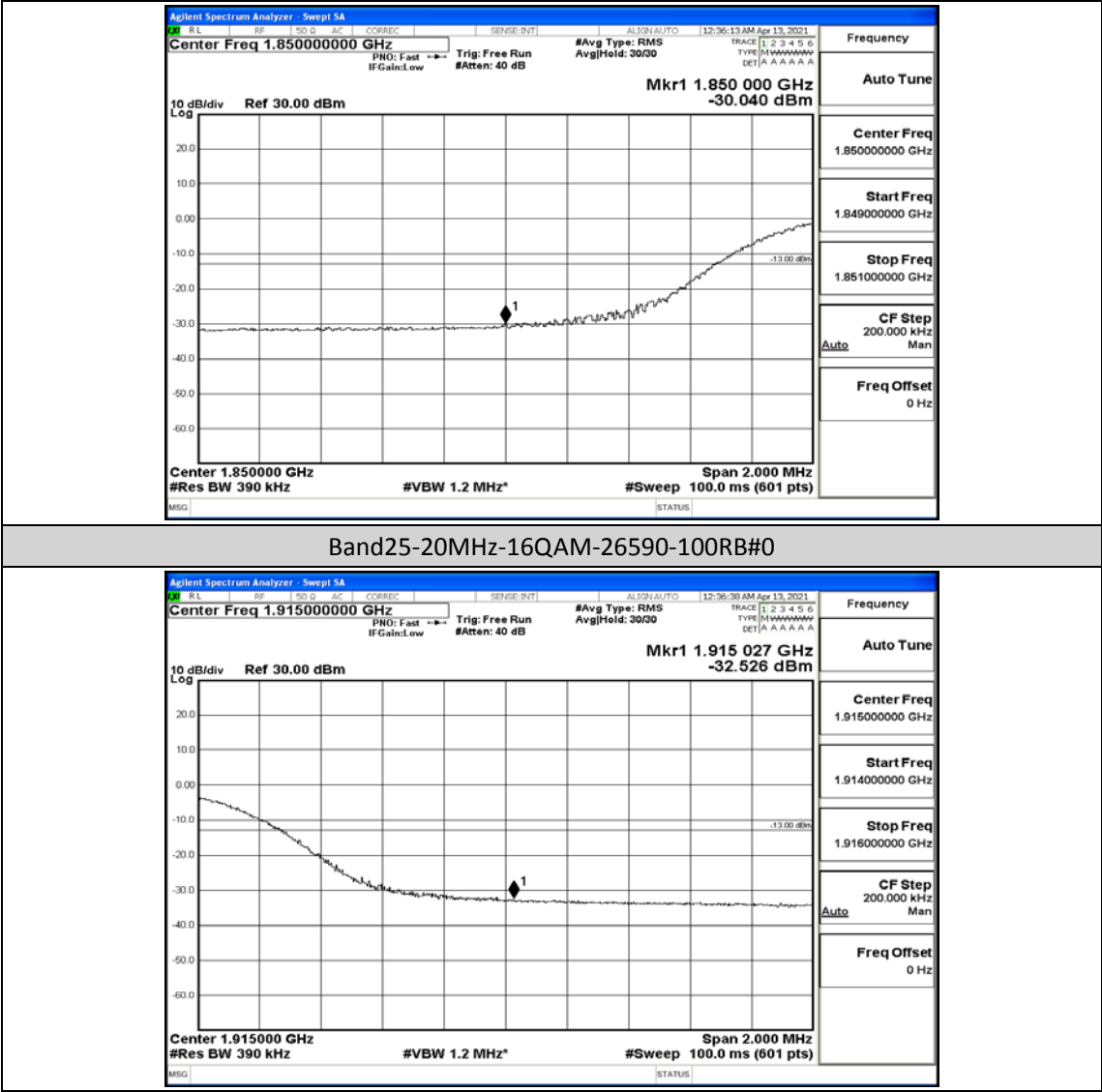
N.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	-30.35	PASS
Band25	20MHz	QPSK	26590	100RB#0	-32.74	PASS
Band25	20MHz	16QAM	26140	100RB#0	-30.04	PASS
Band25	20MHz	16QAM	26590	100RB#0	-32.53	PASS

Test Graphs





N.5 Conducted Spurious Emission

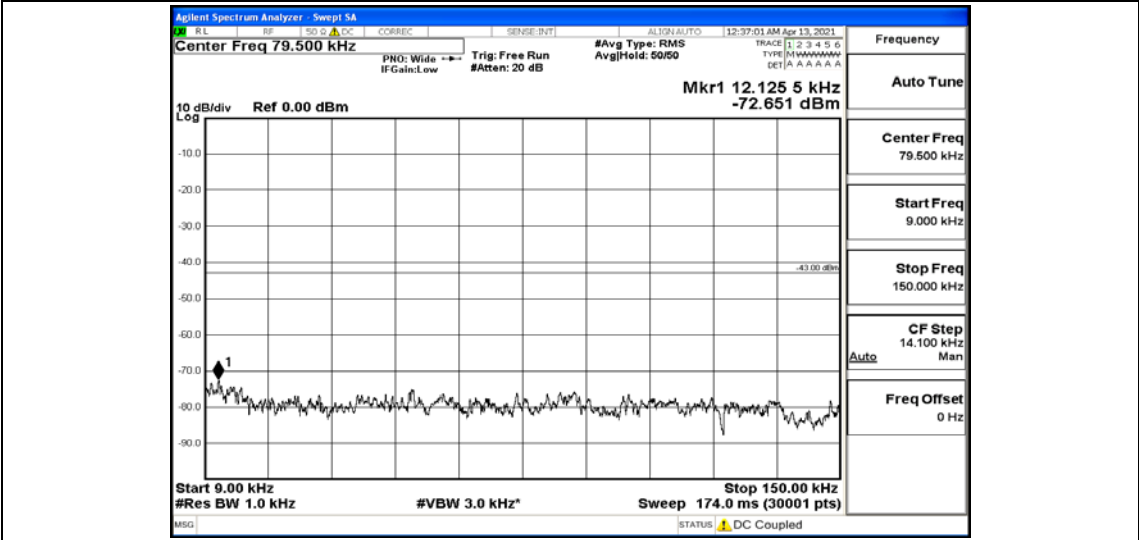
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band25	20MHz	QPSK	26140	1RB#0	Range1:0.009~0.15MHz	-72.65	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range2:0.15~30MHz	-61.56	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range3:30~1000MHz	-39.8	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range4:1000~5000MHz	-44.07	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range5:5000~12000MHz	-53.92	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range6:12000~26500MHz	-35.68	PASS
Band25	20MHz	QPSK	26365	1RB#0	Range1:0.009~0.15MHz	-73.65	PASS
Band25	20MHz	QPSK	26365	1RB#0	Range2:0.15~30MHz	-64.58	PASS
Band25	20MHz	QPSK	26365	1RB#0	Range3:30~1000MHz	-39.71	PASS
Band25	20MHz	QPSK	26365	1RB#0	Range4:1000~5000MHz	-43.92	PASS
Band25	20MHz	QPSK	26365	1RB#0	Range5:5000~12000MHz	-54.03	PASS
Band25	20MHz	QPSK	26365	1RB#0	Range6:12000~26500MHz	-35.46	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range1:0.009~0.15MHz	-72.79	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range2:0.15~30MHz	-62.97	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range3:30~1000MHz	-39.99	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range4:1000~5000MHz	-44.02	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range5:5000~12000MHz	-52.8	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range6:12000~26500MHz	-35.6	PASS

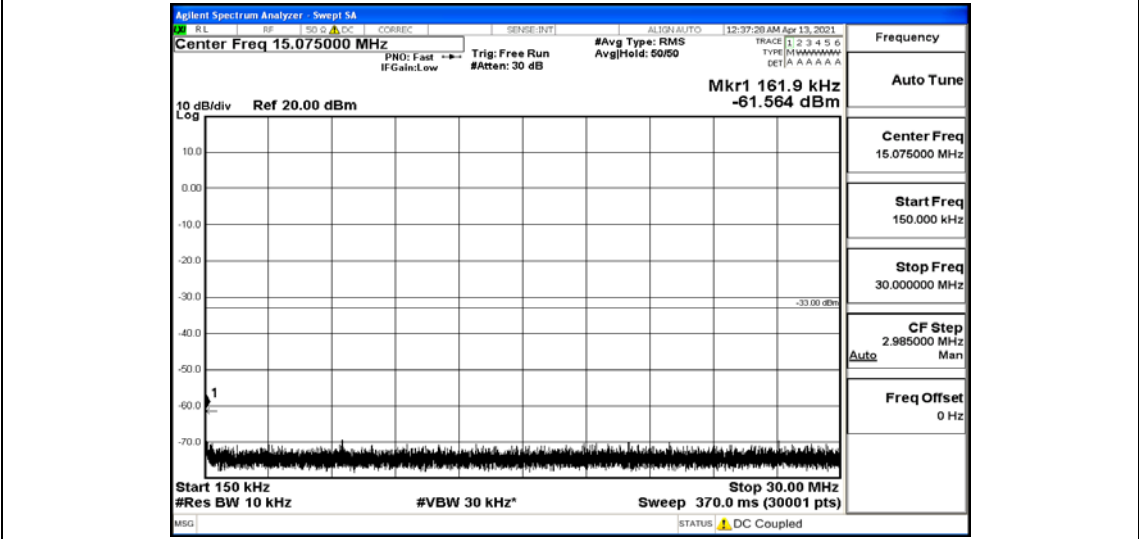
5					Hz	9	
Band2 5	20MHz	16QAM	26140	1RB#0	Range1:0.009~0.15MHz	-72.3 3	PASS
Band2 5	20MHz	16QAM	26140	1RB#0	Range2:0.15~30MHz	-63.9 4	PASS
Band2 5	20MHz	16QAM	26140	1RB#0	Range3:30~1000MHz	-39.9 1	PASS
Band2 5	20MHz	16QAM	26140	1RB#0	Range4:1000~5000MHz	-43.9 8	PASS
Band2 5	20MHz	16QAM	26140	1RB#0	Range5:5000~12000M Hz	-53.9 9	PASS
Band2 5	20MHz	16QAM	26140	1RB#0	Range6:12000~26500M Hz	-35.5 5	PASS
Band2 5	20MHz	16QAM	26365	1RB#0	Range1:0.009~0.15MHz	-73.8 7	PASS
Band2 5	20MHz	16QAM	26365	1RB#0	Range2:0.15~30MHz	-63.0 5	PASS
Band2 5	20MHz	16QAM	26365	1RB#0	Range3:30~1000MHz	-39.8	PASS
Band2 5	20MHz	16QAM	26365	1RB#0	Range4:1000~5000MHz	-43.8 6	PASS
Band2 5	20MHz	16QAM	26365	1RB#0	Range5:5000~12000M Hz	-53.9 1	PASS
Band2 5	20MHz	16QAM	26365	1RB#0	Range6:12000~26500M Hz	-35.5 3	PASS
Band2 5	20MHz	16QAM	26590	1RB#0	Range1:0.009~0.15MHz	-73.3 8	PASS
Band2 5	20MHz	16QAM	26590	1RB#0	Range2:0.15~30MHz	-63.7 2	PASS
Band2 5	20MHz	16QAM	26590	1RB#0	Range3:30~1000MHz	-39.9 9	PASS
Band2 5	20MHz	16QAM	26590	1RB#0	Range4:1000~5000MHz	-43.9	PASS
Band2 5	20MHz	16QAM	26590	1RB#0	Range5:5000~12000M Hz	-53.4	PASS
Band2 5	20MHz	16QAM	26590	1RB#0	Range6:12000~26500M Hz	-35.6 3	PASS

Test Graphs

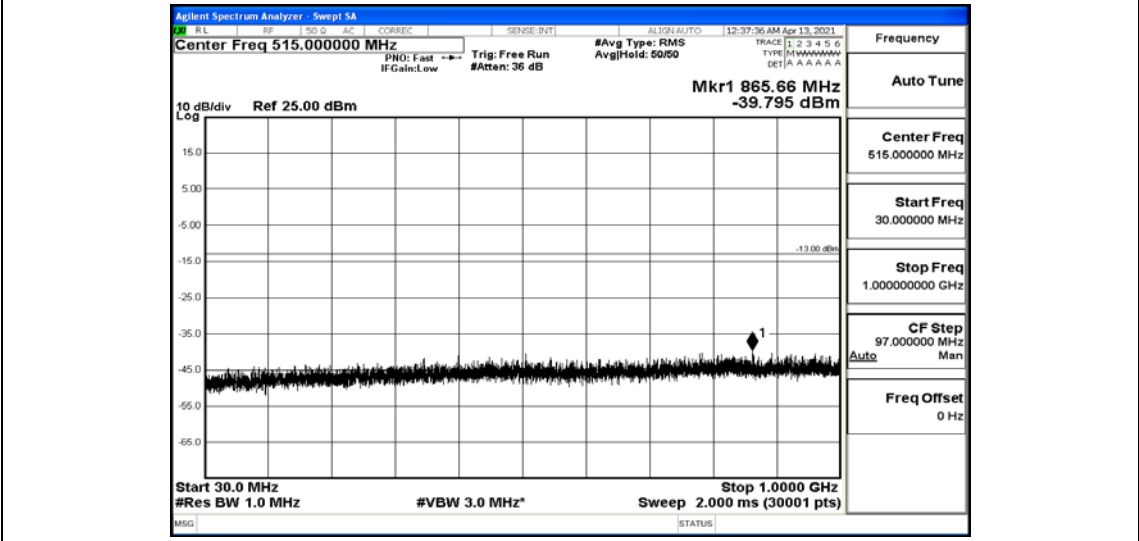
Band25-20MHz-QPSK-26140-1RB#0-Range1:0.009~0.15MHz



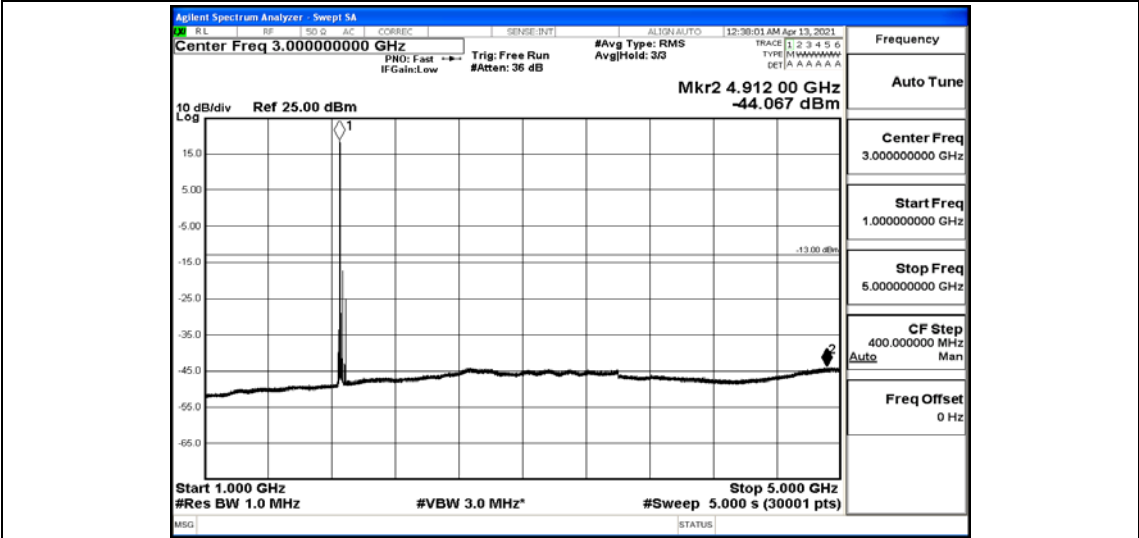
Band25-20MHz-QPSK-26140-1RB#0-Range2:0.15~30MHz



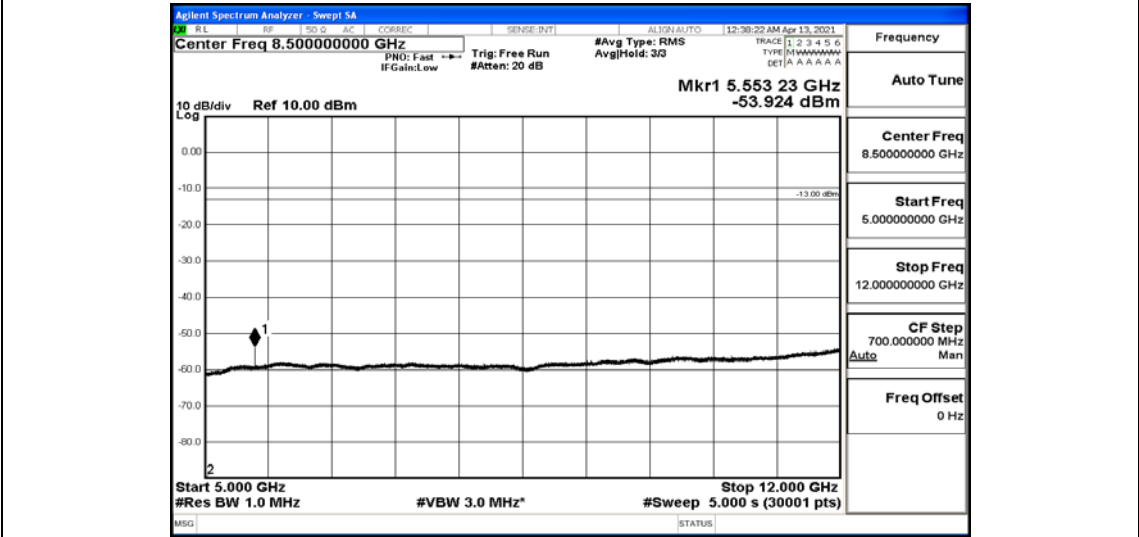
Band25-20MHz-QPSK-26140-1RB#0-Range3:30~1000MHz



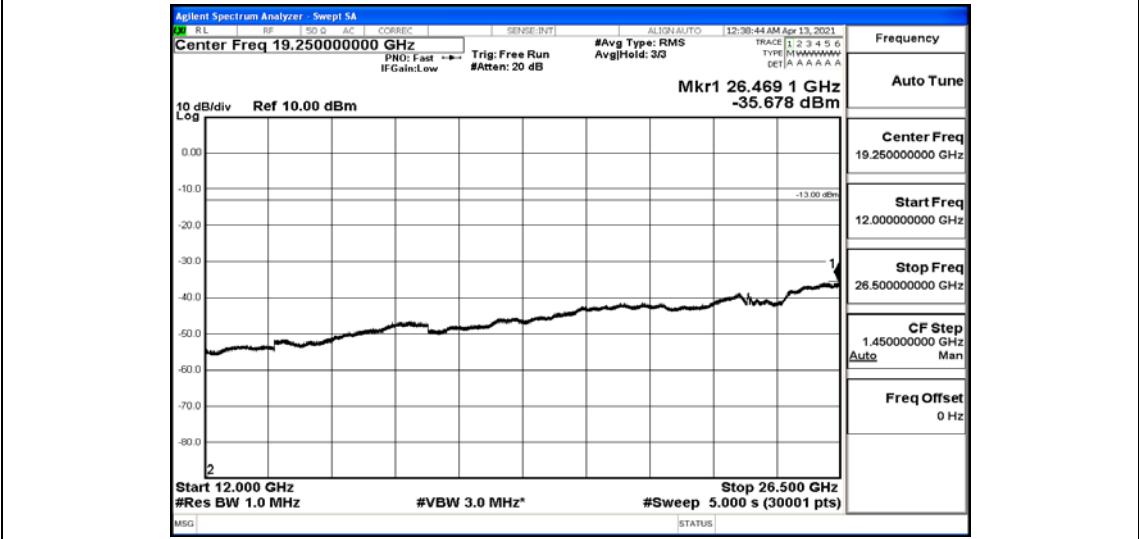
Band25-20MHz-QPSK-26140-1RB#0-Range4:1000~5000MHz



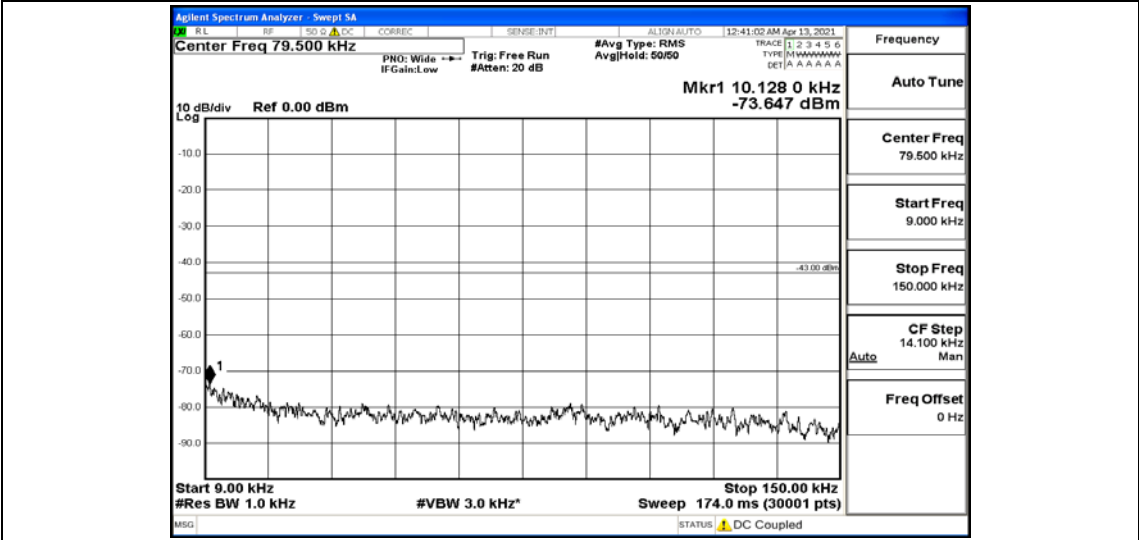
Band25-20MHz-QPSK-26140-1RB#0-Range5:5000~12000MHz



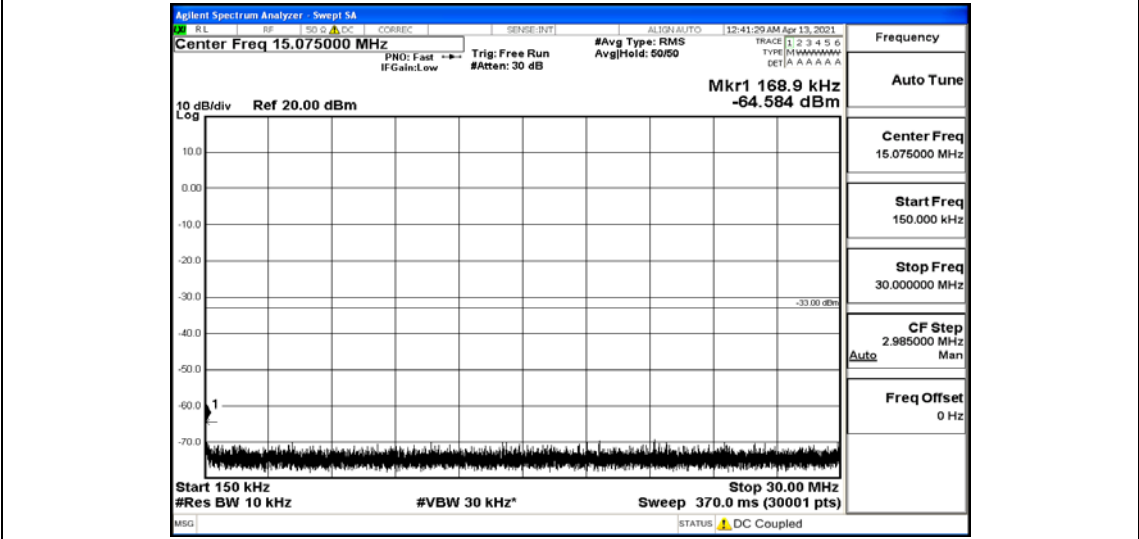
Band25-20MHz-QPSK-26140-1RB#0-Range6:12000~26500MHz



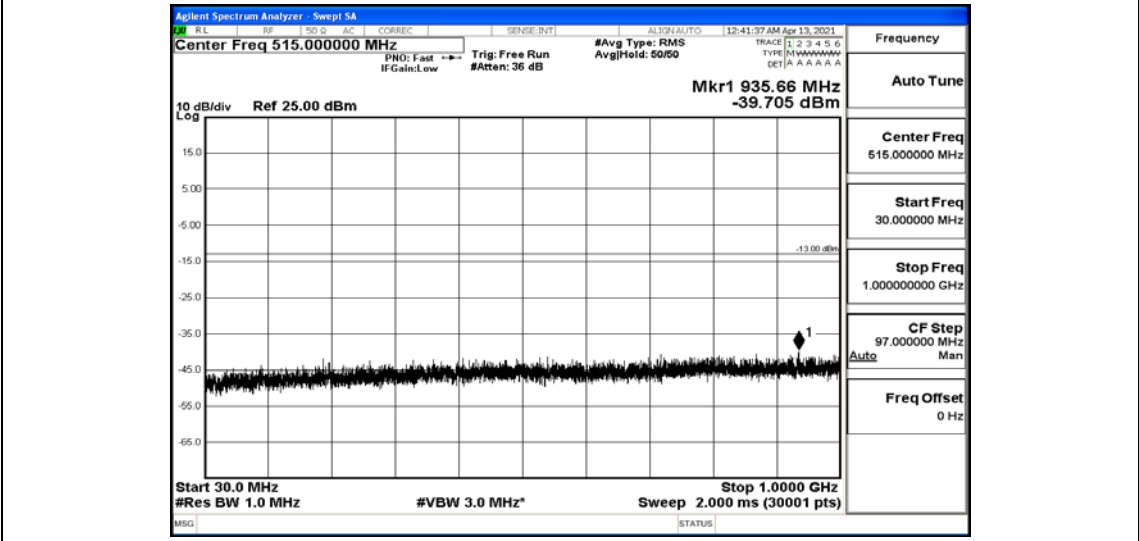
Band25-20MHz-QPSK-26365-1RB#0-Range1:0.009~0.15MHz



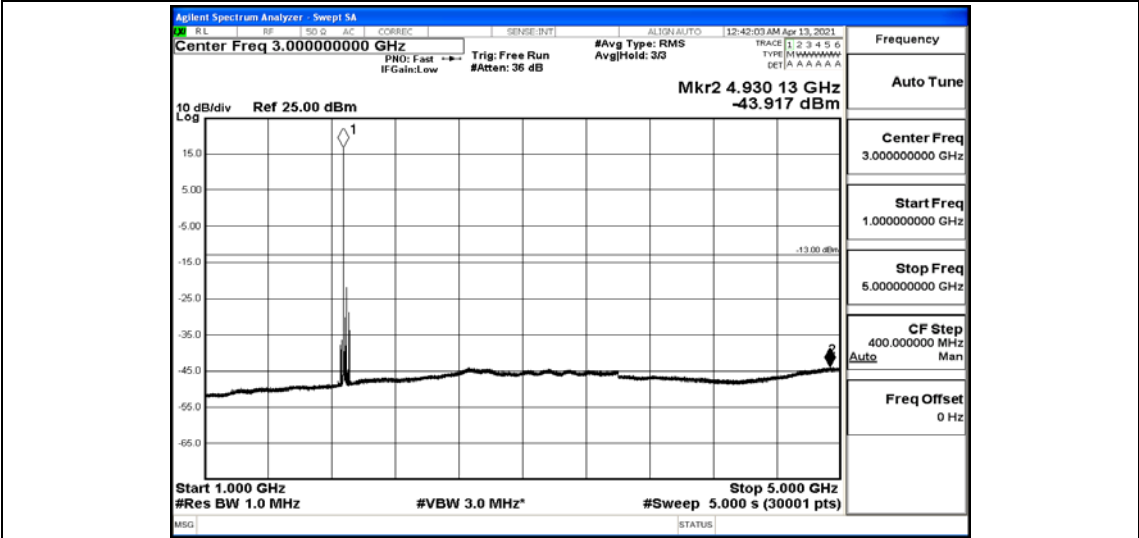
Band25-20MHz-QPSK-26365-1RB#0-Range2:0.15~30MHz



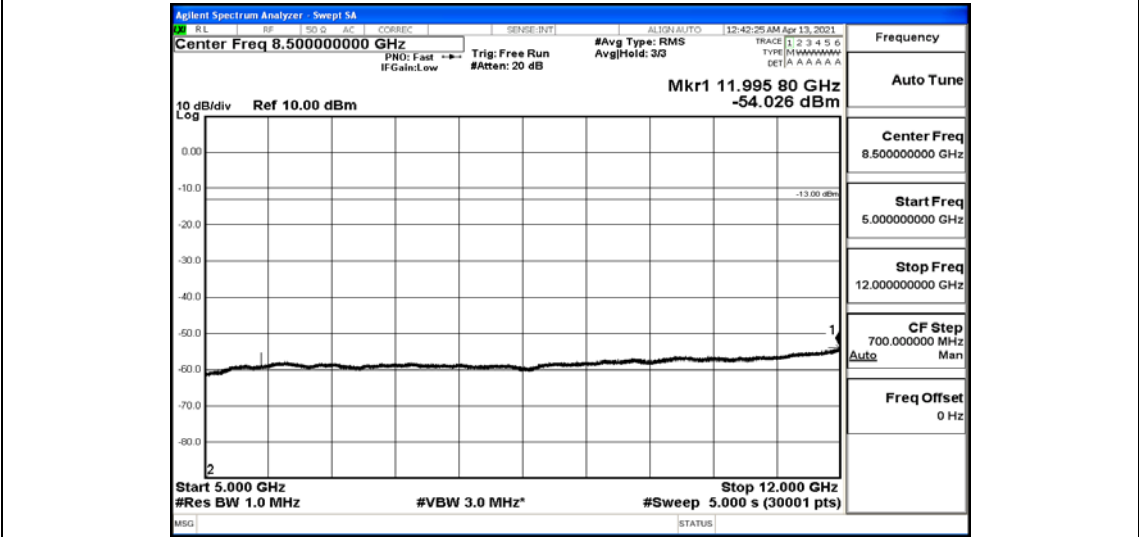
Band25-20MHz-QPSK-26365-1RB#0-Range3:30~1000MHz



Band25-20MHz-QPSK-26365-1RB#0-Range4:1000~5000MHz



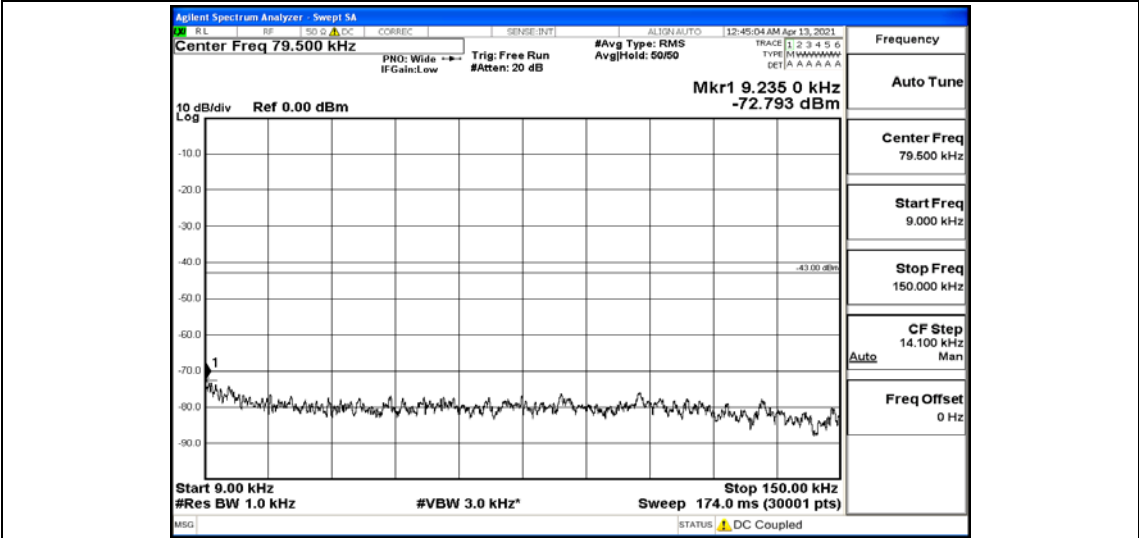
Band25-20MHz-QPSK-26365-1RB#0-Range5:5000~12000MHz



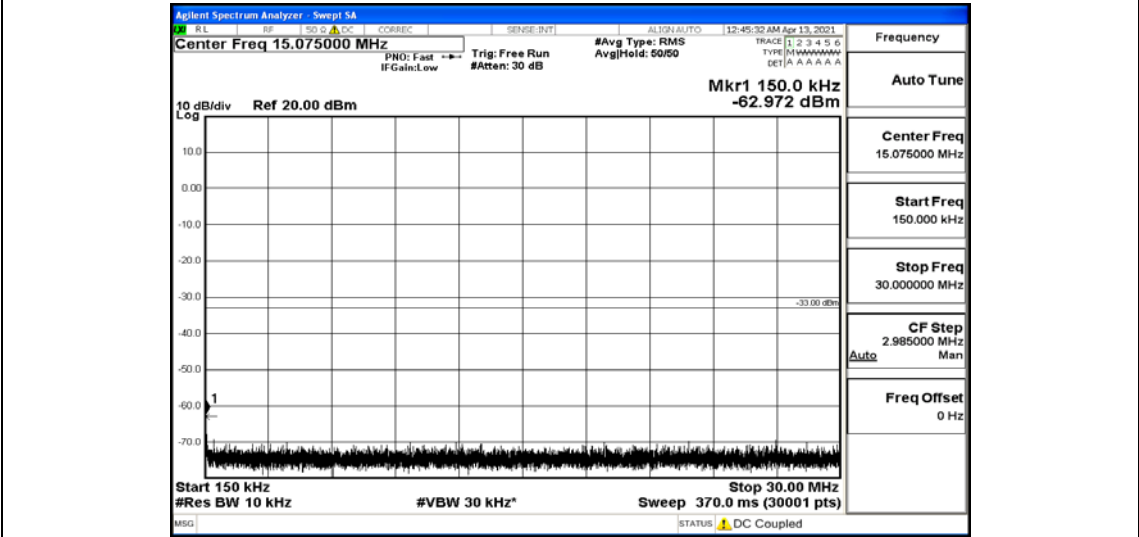
Band25-20MHz-QPSK-26365-1RB#0-Range6:12000~26500MHz



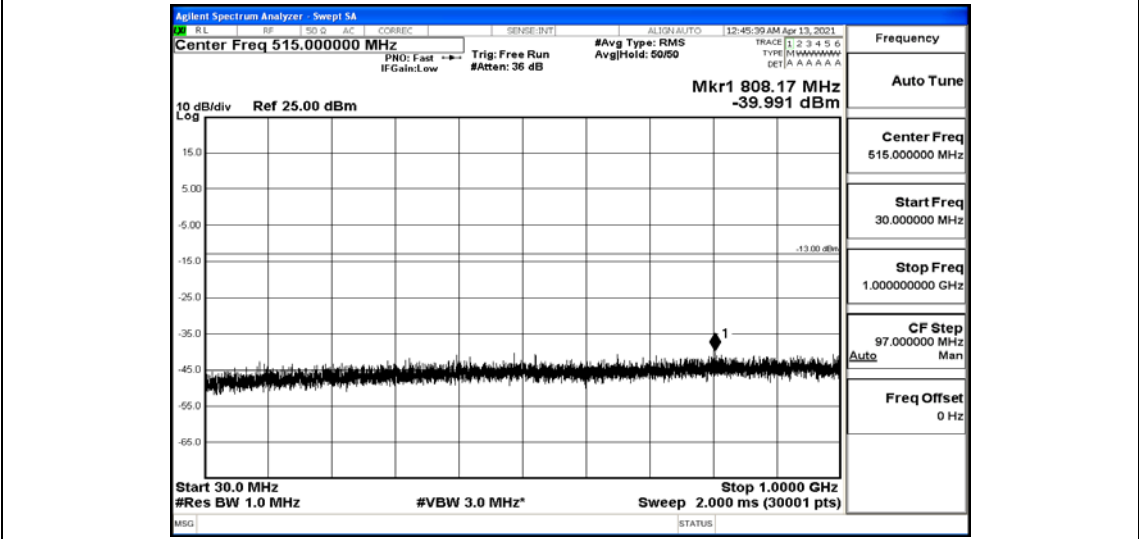
Band25-20MHz-QPSK-26590-1RB#0-Range1:0.009~0.15MHz



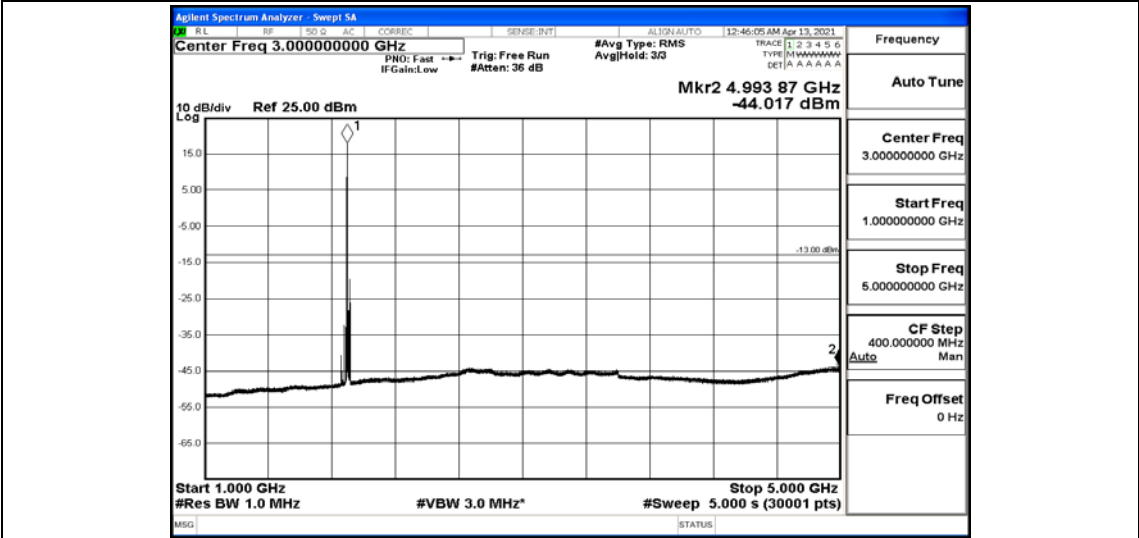
Band25-20MHz-QPSK-26590-1RB#0-Range2:0.15~30MHz



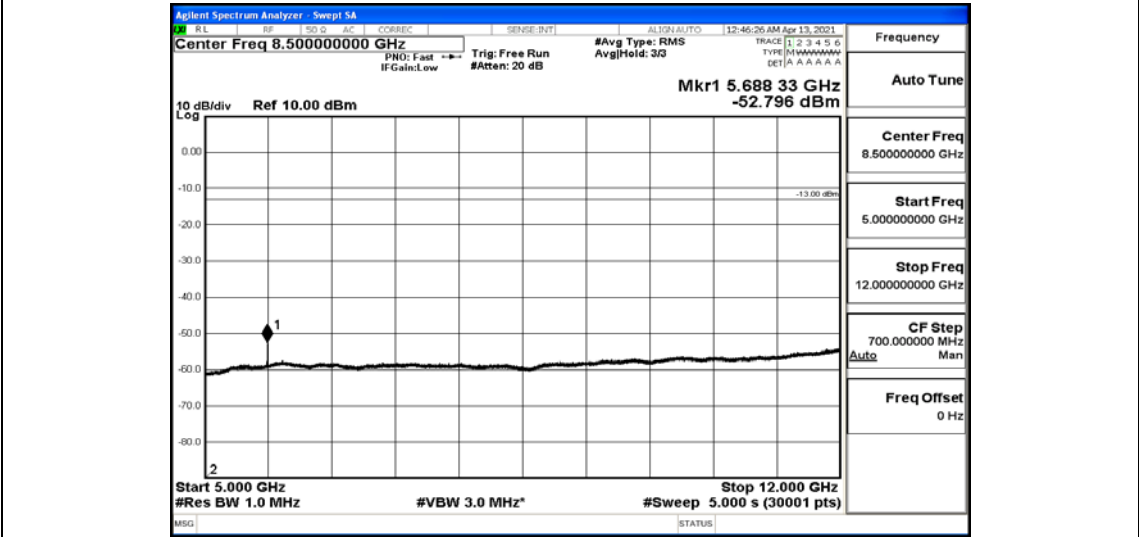
Band25-20MHz-QPSK-26590-1RB#0-Range3:30~1000MHz



Band25-20MHz-QPSK-26590-1RB#0-Range4:1000~5000MHz



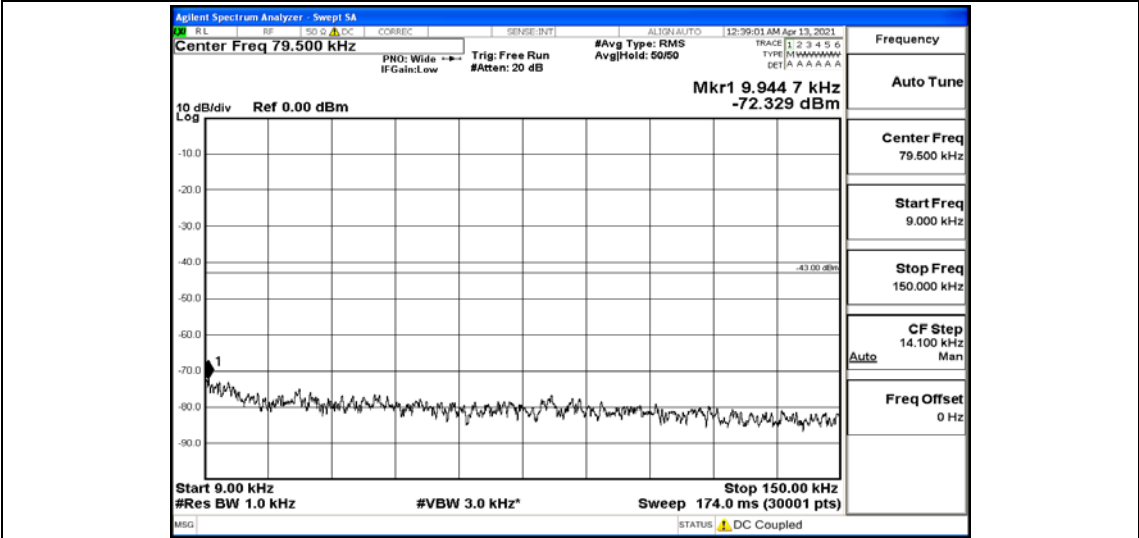
Band25-20MHz-QPSK-26590-1RB#0-Range5:5000~12000MHz



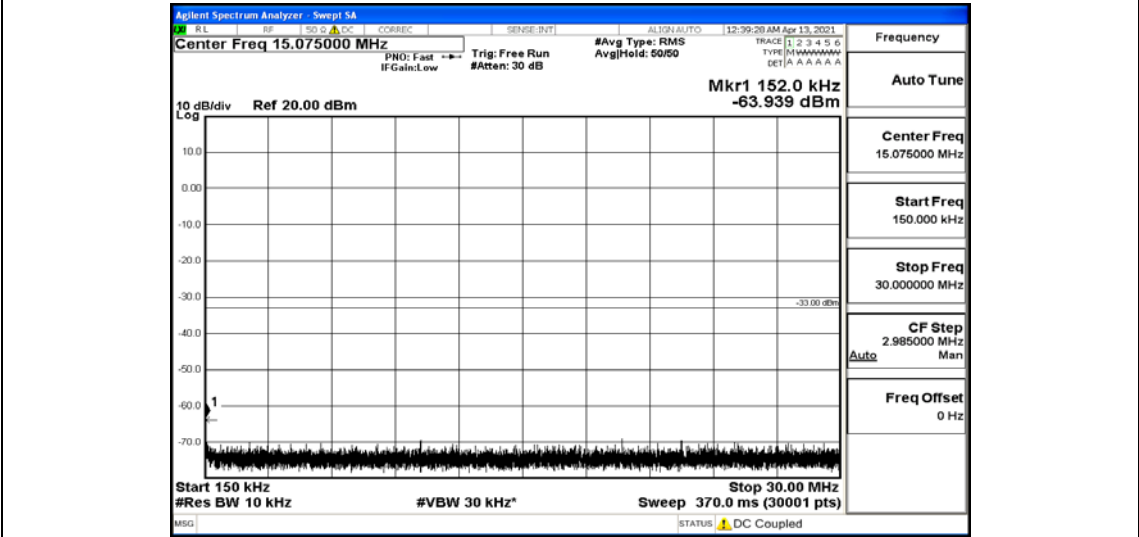
Band25-20MHz-QPSK-26590-1RB#0-Range6:12000~26500MHz



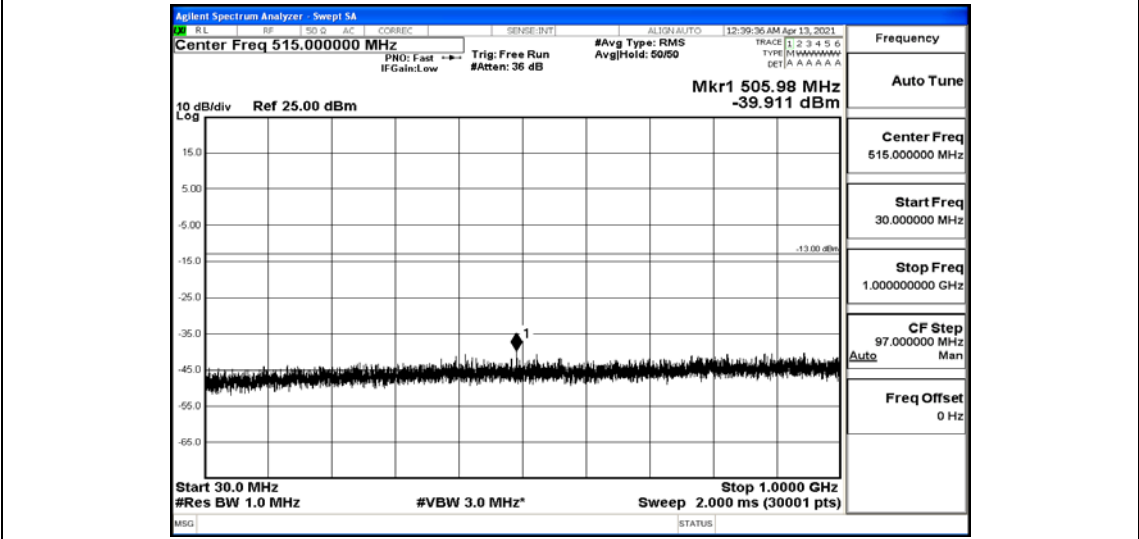
Band25-20MHz-16QAM-26140-1RB#0-Range1:0.009~0.15MHz



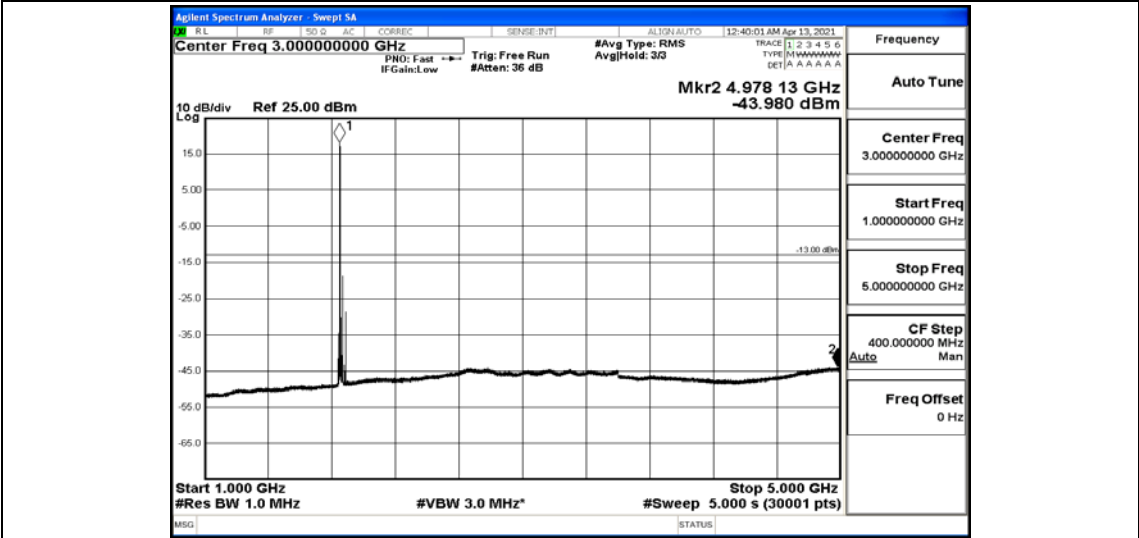
Band25-20MHz-16QAM-26140-1RB#0-Range2:0.15~30MHz



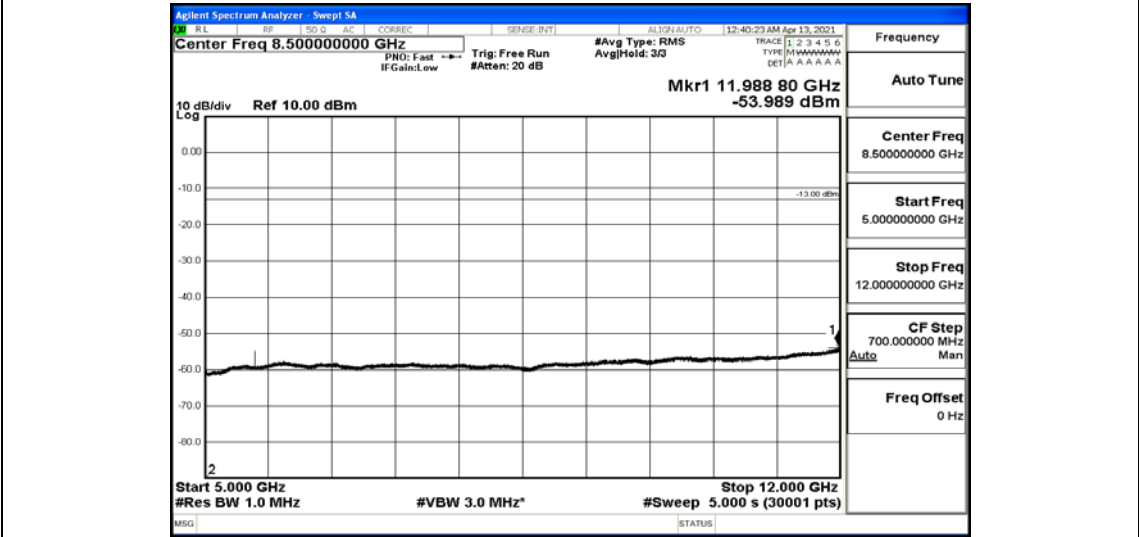
Band25-20MHz-16QAM-26140-1RB#0-Range3:30~1000MHz



Band25-20MHz-16QAM-26140-1RB#0-Range4:1000~5000MHz



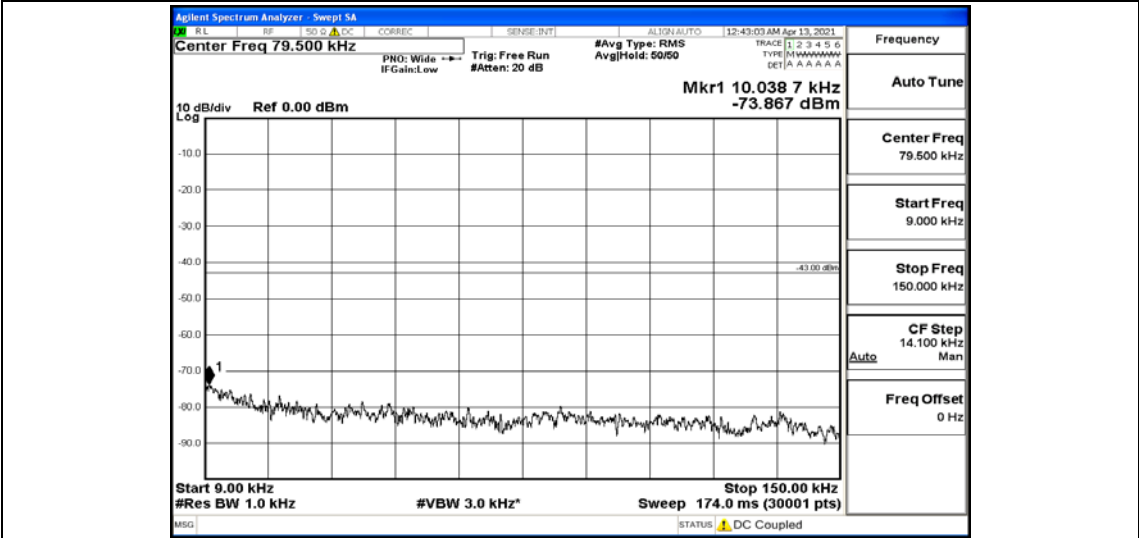
Band25-20MHz-16QAM-26140-1RB#0-Range5:5000~12000MHz



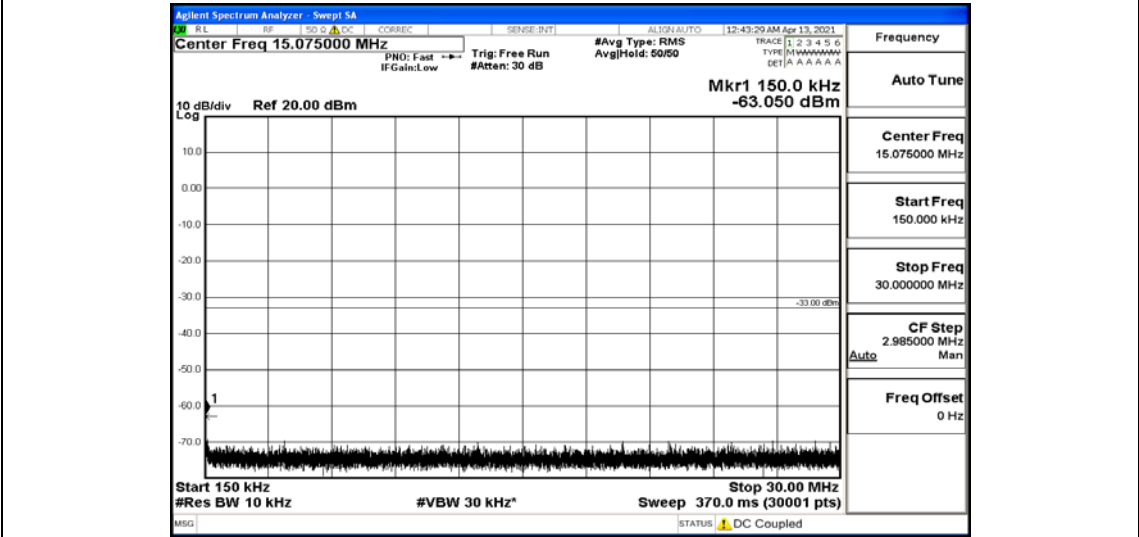
Band25-20MHz-16QAM-26140-1RB#0-Range6:12000~26500MHz



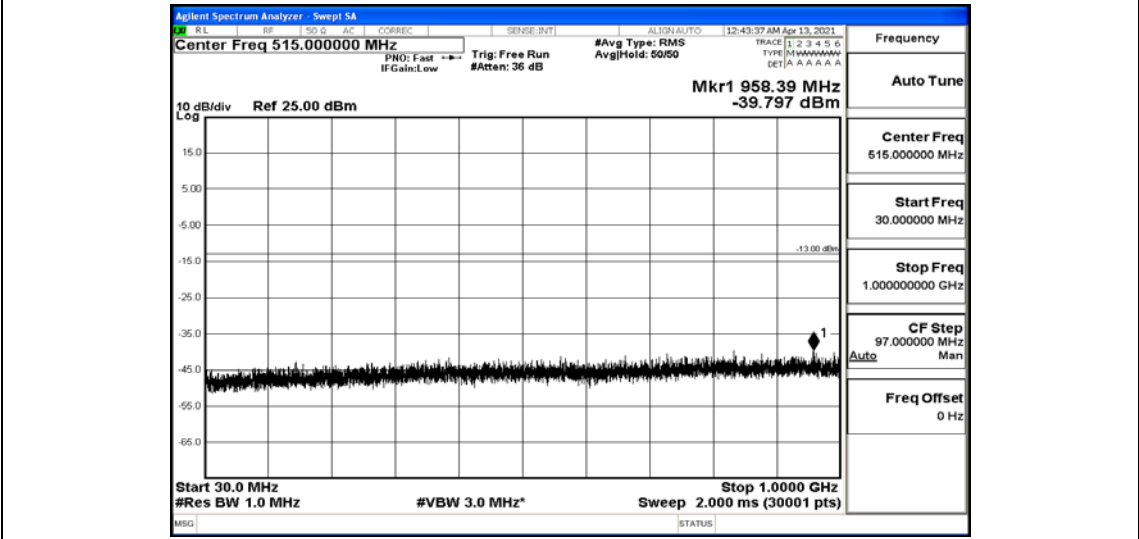
Band25-20MHz-16QAM-26365-1RB#0-Range1:0.009~0.15MHz



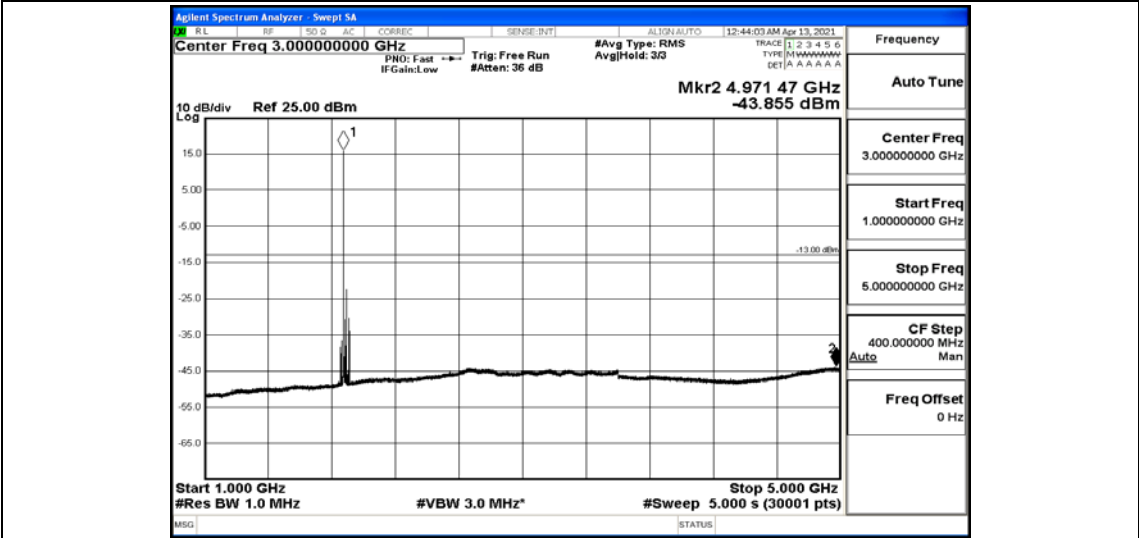
Band25-20MHz-16QAM-26365-1RB#0-Range2:0.15~30MHz



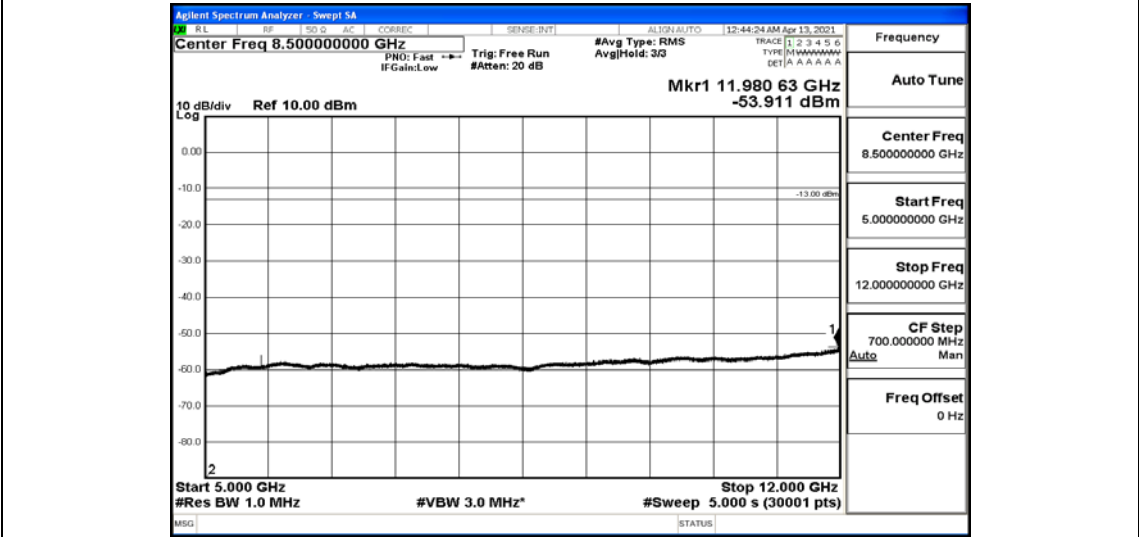
Band25-20MHz-16QAM-26365-1RB#0-Range3:30~1000MHz



Band25-20MHz-16QAM-26365-1RB#0-Range4:1000~5000MHz



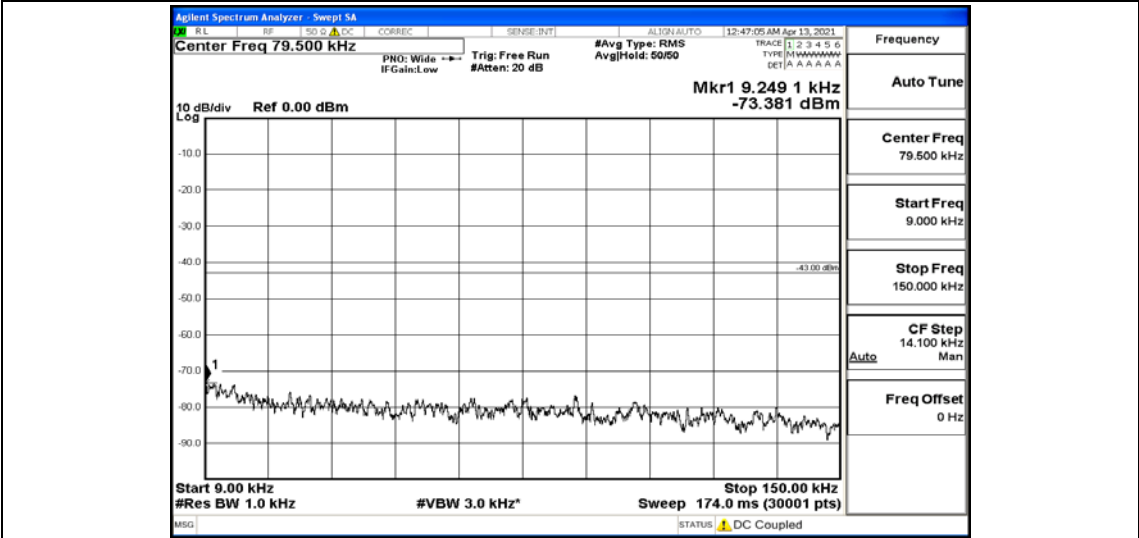
Band25-20MHz-16QAM-26365-1RB#0-Range5:5000~12000MHz



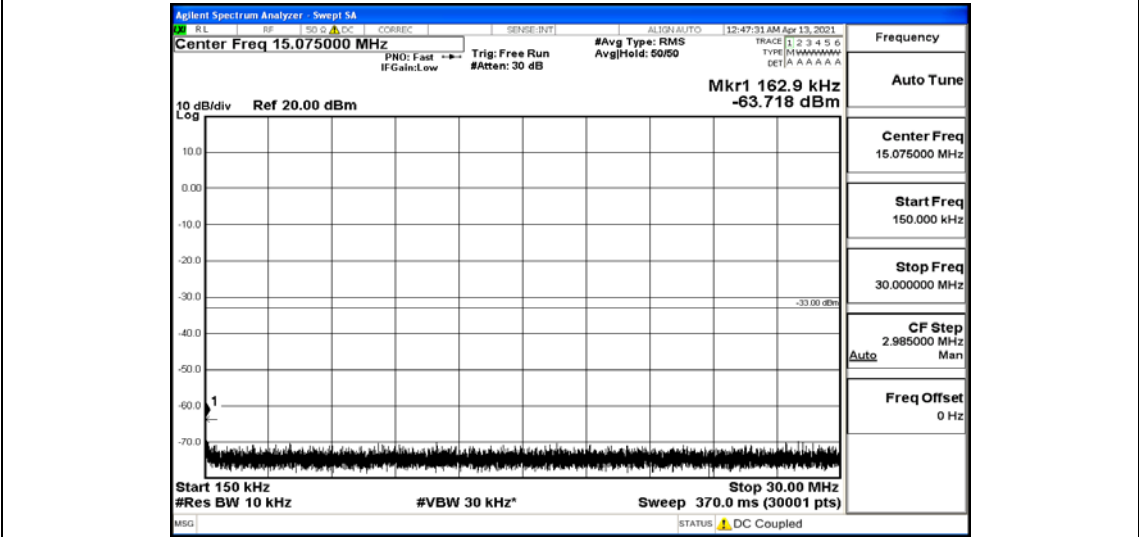
Band25-20MHz-16QAM-26365-1RB#0-Range6:12000~26500MHz



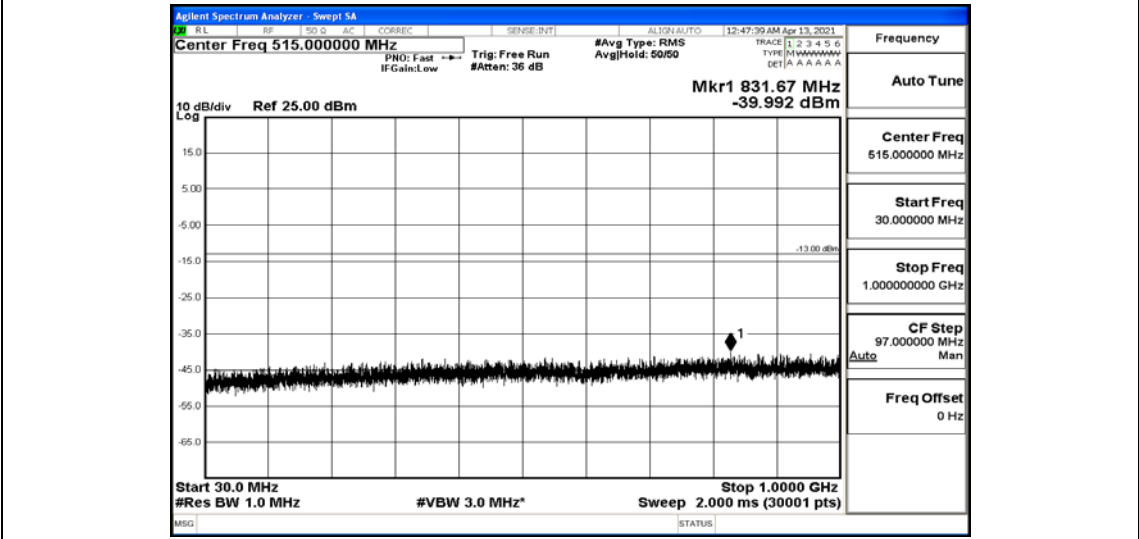
Band25-20MHz-16QAM-26590-1RB#0-Range1:0.009~0.15MHz



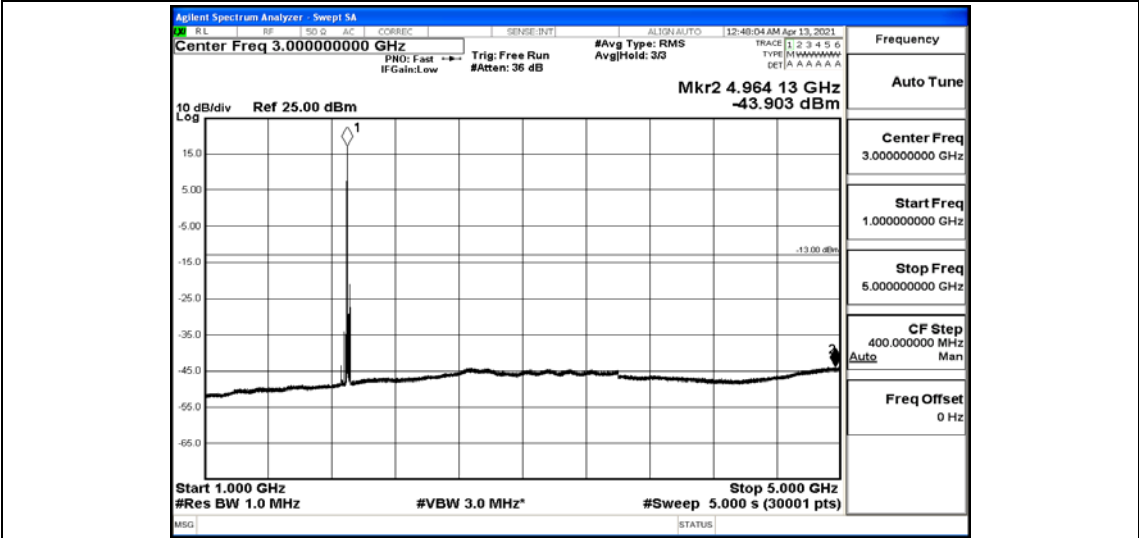
Band25-20MHz-16QAM-26590-1RB#0-Range2:0.15~30MHz



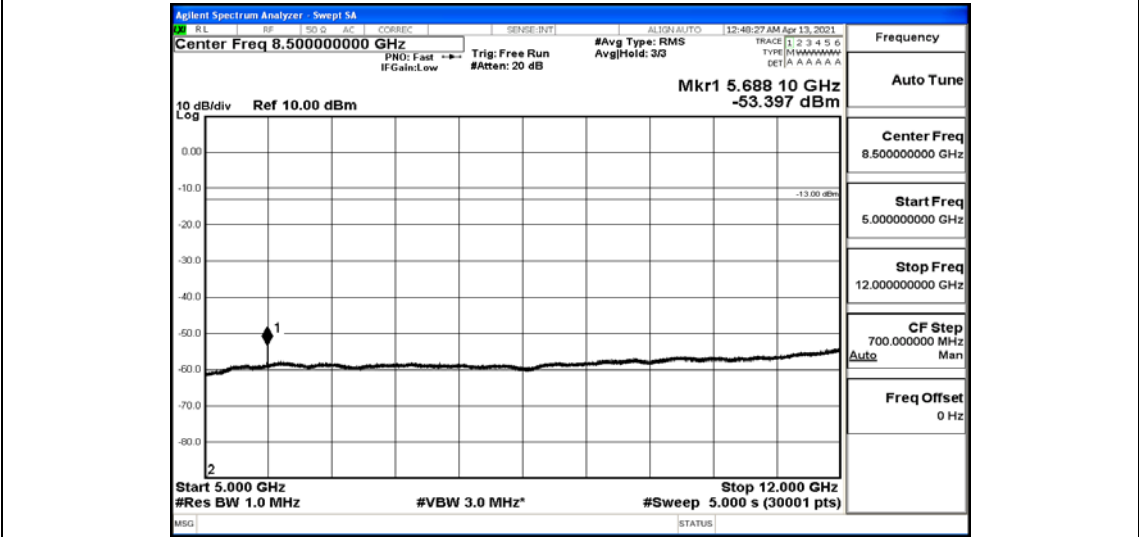
Band25-20MHz-16QAM-26590-1RB#0-Range3:30~1000MHz



Band25-20MHz-16QAM-26590-1RB#0-Range4:1000~5000MHz



Band25-20MHz-16QAM-26590-1RB#0-Range5:5000~12000MHz



Band25-20MHz-16QAM-26590-1RB#0-Range6:12000~26500MHz

