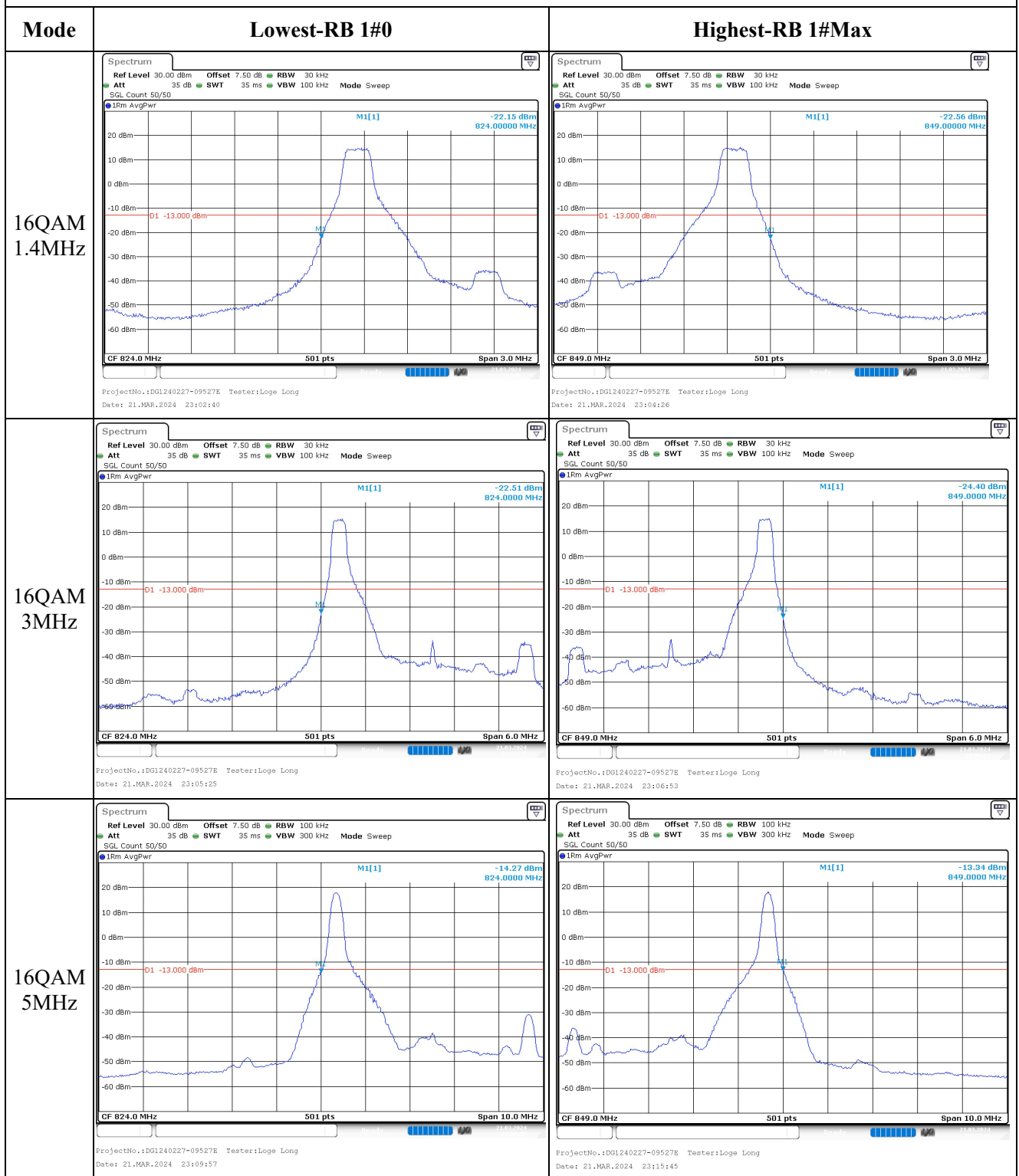
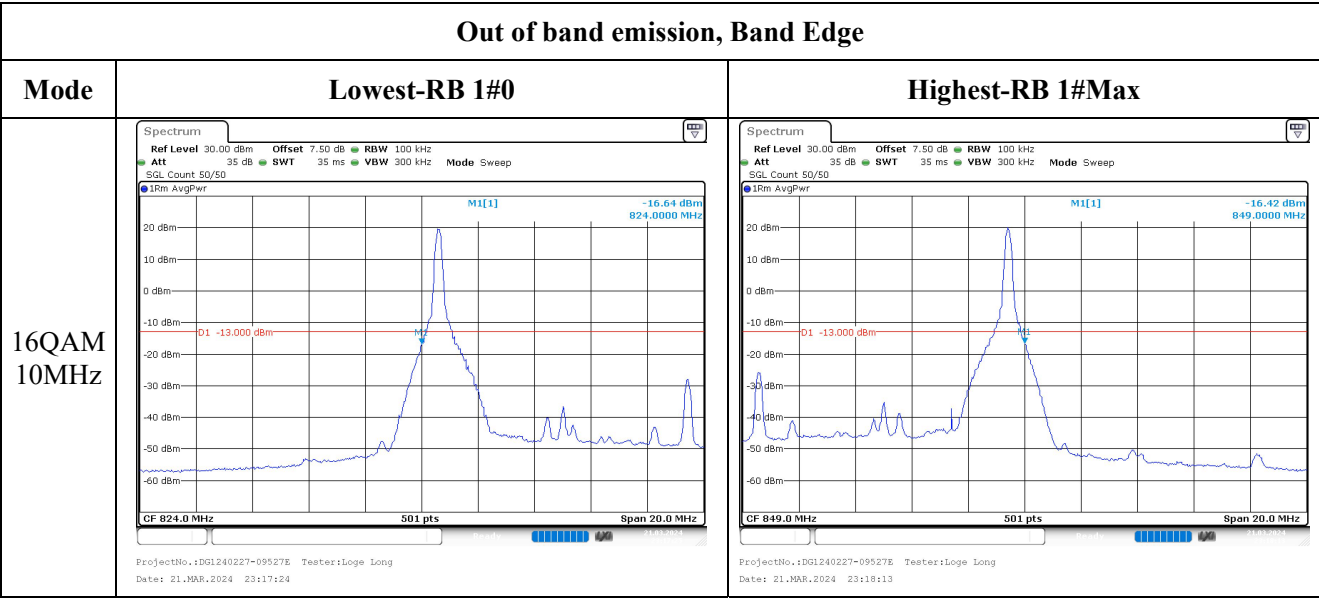
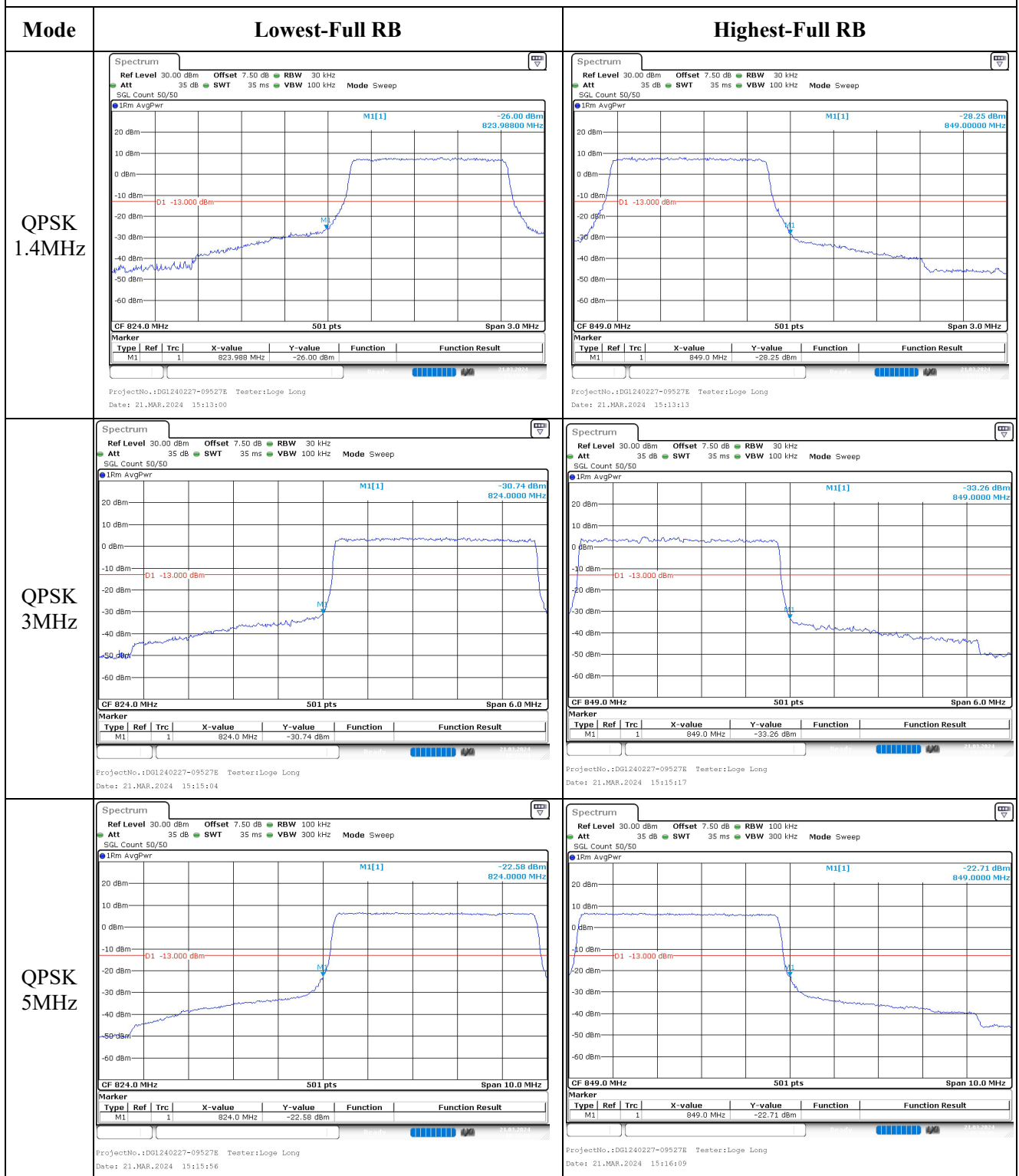


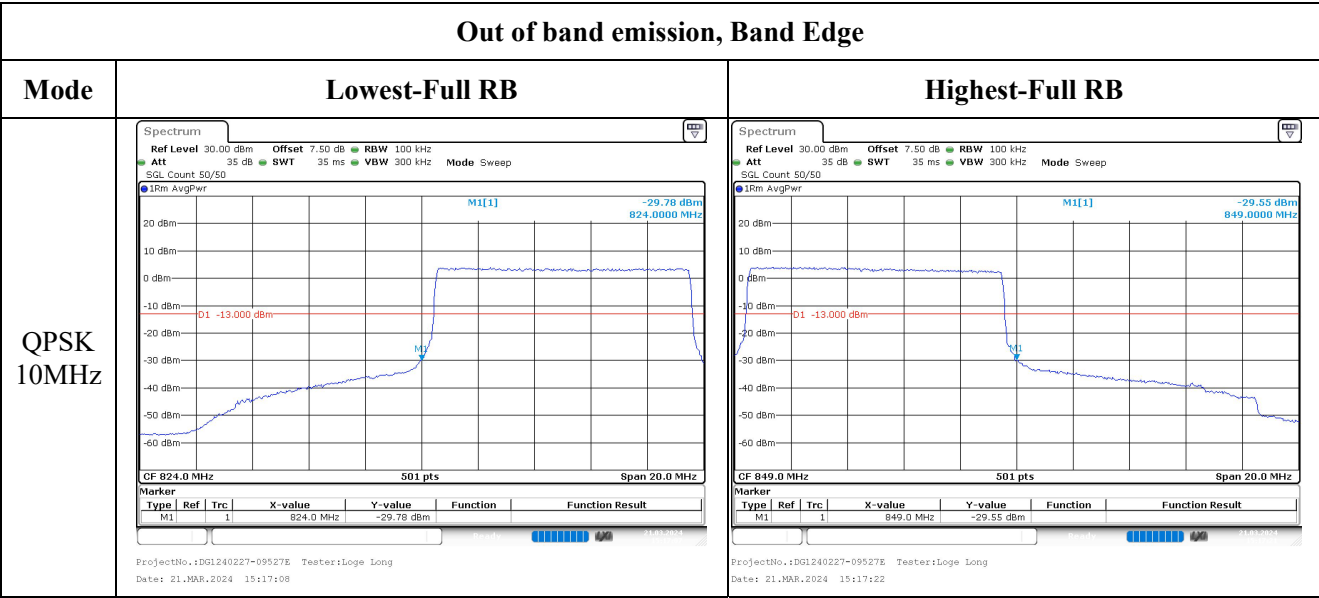
Out of band emission, Band Edge



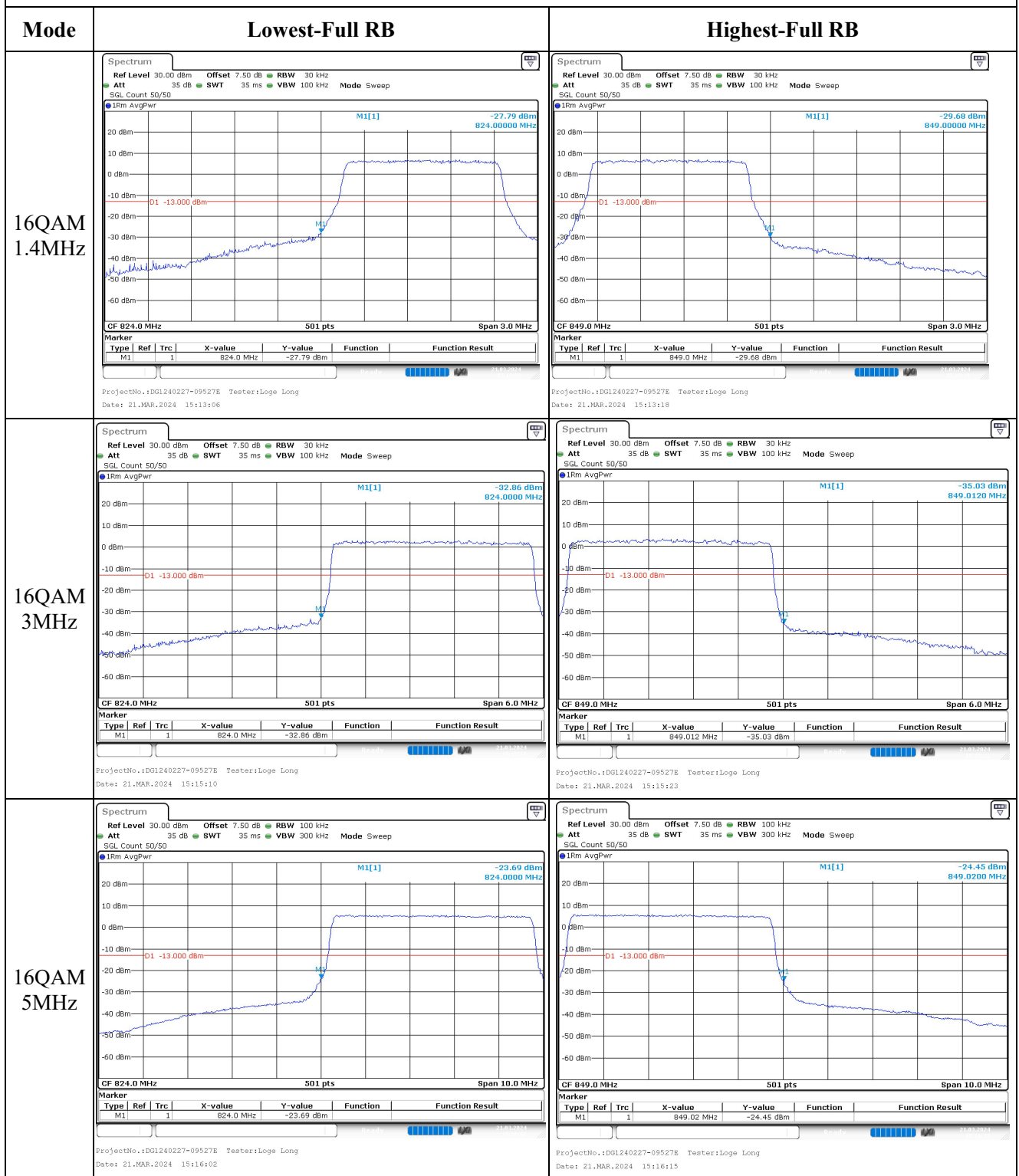


Out of band emission, Band Edge

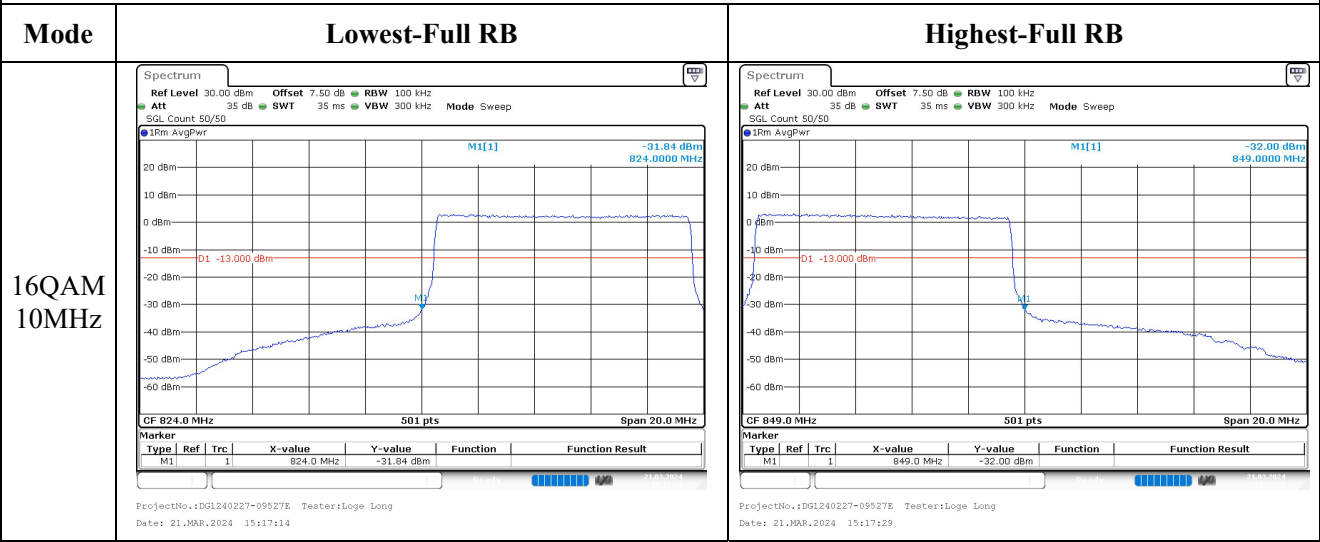




Out of band emission, Band Edge



Out of band emission, Band Edge



5.8 Antenna Port Test Data and Results for LTE Band 7

Serial Number:	2I25-7	Test Date:	2024/3/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.2	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Minl-Circuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/2/25	2025/2/24
R&S	Wideband Radio Communication Tester	CMW500	149216	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005011	2023/9/1	2024/8/31
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	2023/9/1	2024/8/31
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

Test Data:**FCC§2.1046;§ 27.50(h)(2)****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.17	22.04	22.16	24.07	33
	RB1#13	22.35	22.22	22.32		
	RB1#24	22.21	22.04	22.17		
	RB15#0	21.35	21.29	21.25		
	RB15#10	21.3	21.2	21.29		
	RB25#0	21.3	21.2	21.2		
5MHz 16QAM	RB1#0	21.16	21.03	21.36	23.23	33
	RB1#13	21.29	21.06	21.51		
	RB1#24	21.11	20.99	21.37		
	RB15#0	20.28	20.29	20.16		
	RB15#10	20.17	20.21	20.2		
	RB25#0	20.19	20.22	20.16		
10MHz QPSK	RB1#0	22.42	22.09	22.03	24.3	33
	RB1#25	22.58	22.23	22.4		
	RB1#49	22.42	22.05	22.32		
	RB25#0	21.37	21.17	21.2		
	RB25#25	21.38	21.05	21.31		
	RB50#0	21.39	21.13	21.17		
10MHz 16QAM	RB1#0	21.24	21.61	21.15	23.55	33
	RB1#25	21.4	21.83	21.35		
	RB1#49	21.25	21.56	21.19		
	RB25#0	20.3	20.21	20.02		
	RB25#25	20.31	20.09	20.12		
	RB50#0	20.23	20.1	20.02		
15MHz QPSK	RB1#0	22.06	22	21.94	23.96	33
	RB1#38	22.24	22.08	22.09		
	RB1#74	22.04	21.92	22		
	RB36#0	21.26	21.15	21.17		
	RB36#39	21.32	21.09	21.35		
	RB75#0	21.25	21.14	21.25		
15MHz 16QAM	RB1#0	21.34	21.46	21.21	23.28	33
	RB1#38	21.47	21.56	21.36		
	RB1#74	21.31	21.39	21.3		
	RB36#0	20.17	20.11	20.19		
	RB36#39	20.22	19.97	20.28		
	RB75#0	20.19	20.08	20.2		
20MHz QPSK	RB1#0	21.97	21.85	21.91	24.18	33
	RB1#50	22.42	22.18	22.46		
	RB1#99	22.01	22.06	22.17		

20MHz 16QAM	RB50#0	21.27	21.28	21.21	23.55	33
	RB50#50	21.46	21.12	21.33		
	RB100#0	21.37	21.21	21.27		
	RB1#0	21.48	21.35	21.15		
	RB1#50	21.83	21.67	21.6		
	RB1#99	21.49	21.28	21.13		
	RB50#0	20.12	20.27	19.88		
	RB50#50	20.17	20.11	20.1		
	RB100#0	20.12	20.21	19.99		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)**Result:****Pass****Peak-to-average Ratio(PAR)**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	3.62	4.67	4.7	13
	RB100#0	4.78	4.99	4.9	13
20MHz 16QAM	RB1#0	4.52	5.48	5.59	13
	RB100#0	5.68	5.91	5.86	13
Result:					Pass

FCC §2.1049, §27.53:Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.531	4.511	4.551	5.24	5.18	5.26
5MHz 16QAM	4.551	4.551	4.511	5.2	5.26	5.18
10MHz QPSK	8.942	8.981	8.981	9.92	9.96	10
10MHz 16QAM	8.942	8.981	8.942	9.88	9.88	9.8
15MHz QPSK	13.533	13.533	13.533	14.82	14.88	14.88
15MHz 16QAM	13.533	13.533	13.473	14.88	14.82	14.82
20MHz QPSK	18.044	17.964	17.964	20	19.6	19.68
20MHz 16QAM	18.044	17.964	17.964	19.76	19.68	19.6

Note: Test was performed at full RB. The test plots please refer to the Plots of Occupied Bandwidth

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

Result:	Pass, Test was performed at RB1#0, please refer to the test plots of Spurious Emissions at Antenna Terminal.
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FCC §2.1051, § 27.53:Out of band emission, Band Edge

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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FCC §2.1055, §27.54: Frequency Stability

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2501.022	2500.00	2569.007	2570
	-20	3.8	2501.034	2500.00	2569.001	2570
	-10	3.8	2501.031	2500.00	2569.019	2570
	0	3.8	2501.052	2500.00	2569.016	2570
	10	3.8	2501.037	2500.00	2569.016	2570
	20	3.8	2501.058	2500.00	2569.022	2570
	30	3.8	2501.082	2500.00	2569.049	2570
	40	3.8	2501.067	2500.00	2569.049	2570
	50	3.8	2501.064	2500.00	2569.046	2570
Frequency Stability vs. Voltage	20	3.5	2501.067	2500.00	2569.025	2570
	20	4.35	2501.082	2500.00	2569.043	2570
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2501.040	2500.00	2569.007	2570
	-20	3.8	2501.034	2500.00	2569.019	2570
	-10	3.8	2501.040	2500.00	2569.019	2570
	0	3.8	2501.037	2500.00	2568.998	2570
	10	3.8	2501.043	2500.00	2569.004	2570
	20	3.8	2501.058	2500.00	2569.022	2570
	30	3.8	2501.073	2500.00	2569.028	2570
	40	3.8	2501.073	2500.00	2569.046	2570
	50	3.8	2501.082	2500.00	2569.049	2570
Frequency Stability vs. Voltage	20	3.5	2501.082	2500.00	2569.040	2570
	20	4.35	2501.082	2500.00	2569.049	2570
					Result:	Pass

Test Plots:

Occupied Bandwidth

