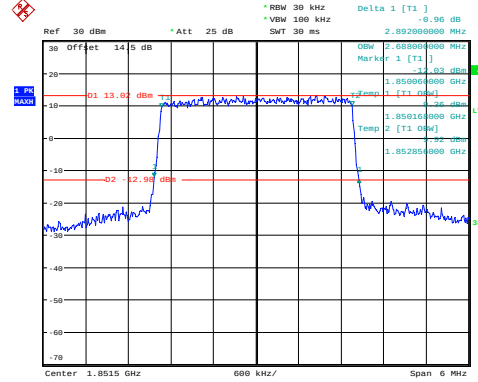
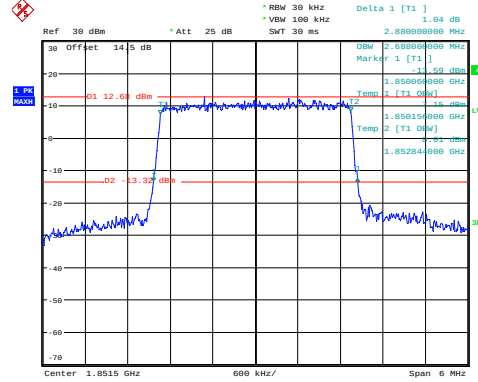
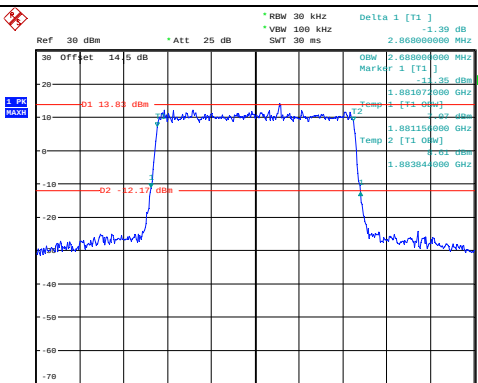
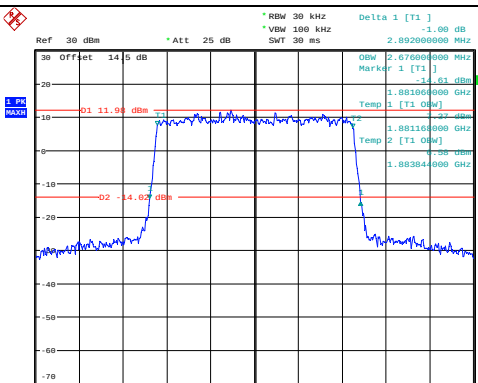
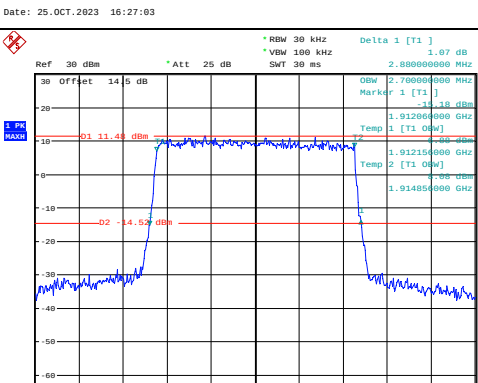
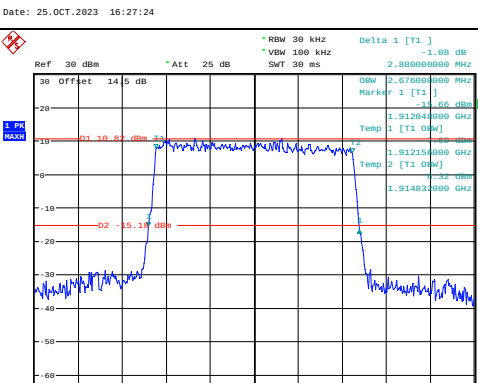


Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -13.82 dB *VBW 100 kHz SMT 30 ms 2.852000000 MHz OSW 2.688000000 MHz Marker 1 [T1] -13.82 dB 1.850000000 GHz Temp 1 [T1 OSW] 1.850150000 GHz Temp 2 [T1 OSW] 1.852000000 GHz Center 1.8515 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:26:26	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -12.68 dB *VBW 100 kHz SMT 30 ms 2.852000000 MHz OSW 2.688000000 MHz Marker 1 [T1] -12.68 dB 1.850000000 GHz Temp 1 [T1 OSW] 1.850150000 GHz Temp 2 [T1 OSW] 1.852000000 GHz Center 1.8515 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:26:42
Middle	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -13.83 dB *VBW 100 kHz SMT 30 ms 2.883000000 MHz OSW 2.688000000 MHz Marker 1 [T1] -13.83 dB 1.881000000 GHz Temp 1 [T1 OSW] 1.881150000 GHz Temp 2 [T1 OSW] 1.883000000 GHz Center 1.8825 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:27:03	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -11.99 dB *VBW 100 kHz SMT 30 ms 2.883000000 MHz OSW 2.676000000 MHz Marker 1 [T1] -11.99 dB 1.881000000 GHz Temp 1 [T1 OSW] 1.881150000 GHz Temp 2 [T1 OSW] 1.883000000 GHz Center 1.8825 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:27:24
Highest	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -14.48 dB *VBW 100 kHz SMT 30 ms 2.914000000 MHz OSW 2.700000000 MHz Marker 1 [T1] -14.48 dB 1.912000000 GHz Temp 1 [T1 OSW] 1.912150000 GHz Temp 2 [T1 OSW] 1.914000000 GHz Center 1.9135 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:27:44	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -10.87 dB *VBW 100 kHz SMT 30 ms 2.914000000 MHz OSW 2.676000000 MHz Marker 1 [T1] -10.87 dB 1.912000000 GHz Temp 1 [T1 OSW] 1.912150000 GHz Temp 2 [T1 OSW] 1.914000000 GHz Center 1.9135 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:28:04

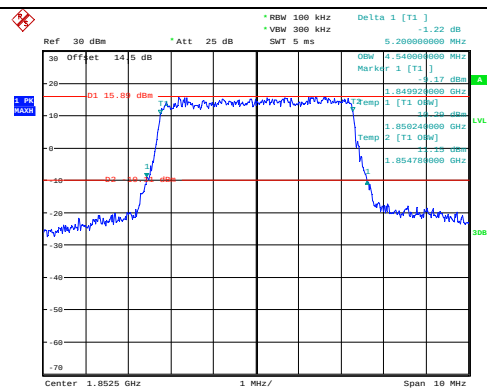
Occupied Bandwidth

Channel

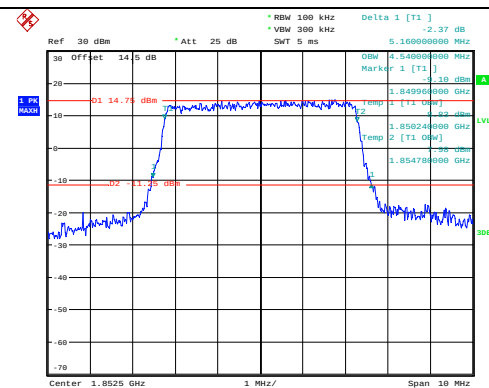
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

Lowest

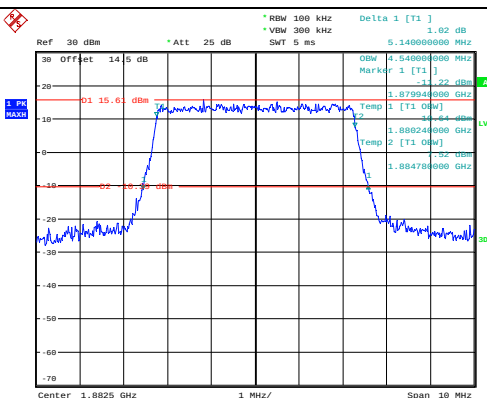


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:29:07

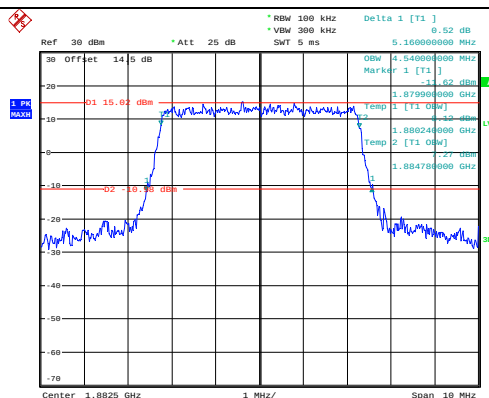


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:29:30

Middle

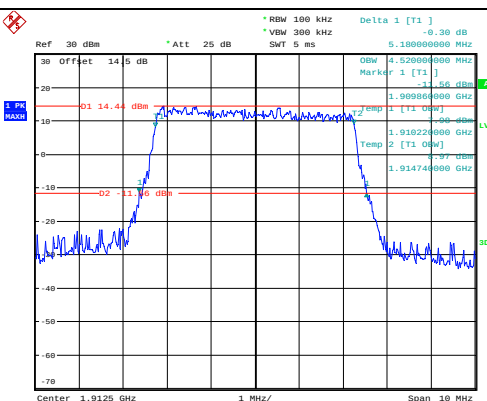


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:29:51

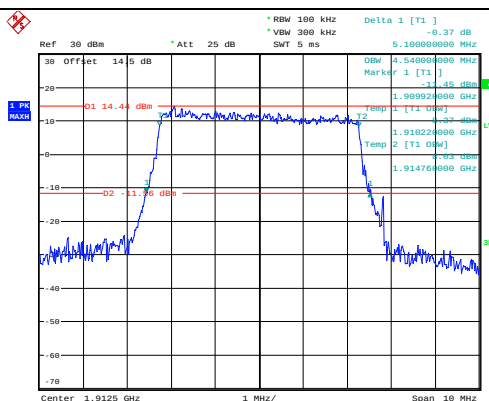


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:30:15

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:30:42



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:31:08

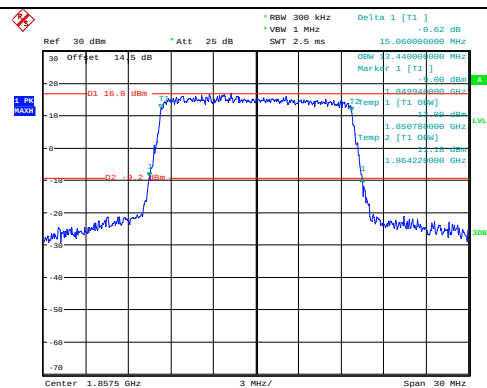
Occupied Bandwidth

Channel

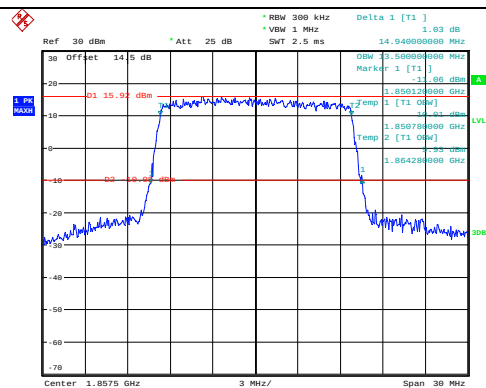
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

Lowest

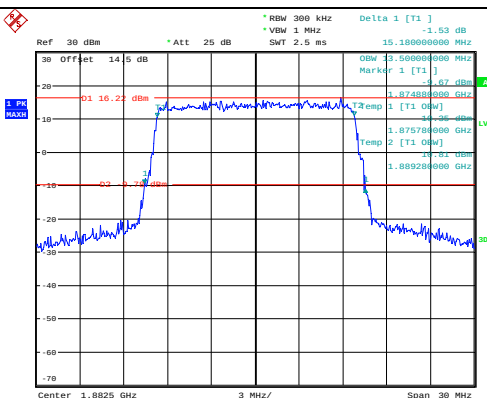


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:35:03

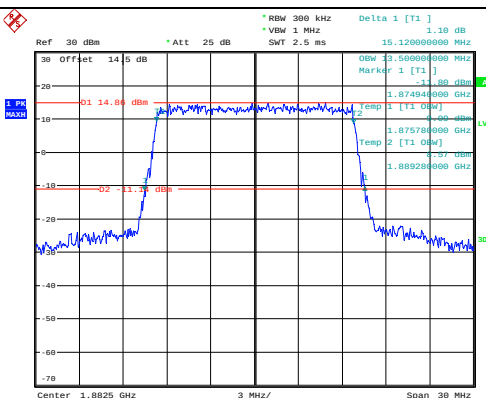


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:35:26

Middle

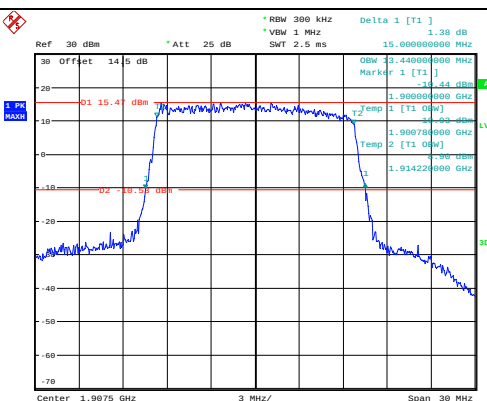


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:35:47

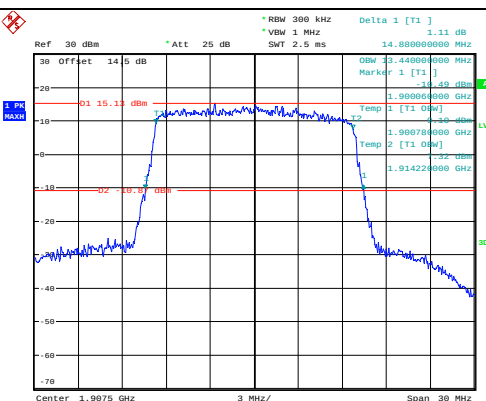


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:36:07

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:36:31



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:36:54

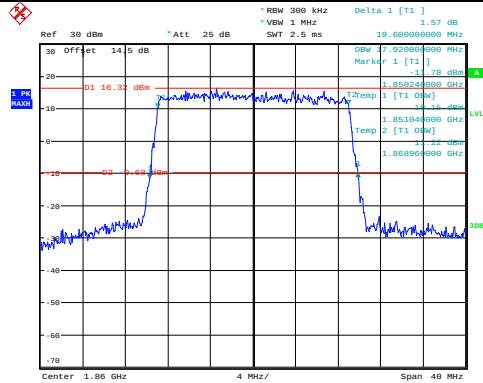
Occupied Bandwidth

Channel

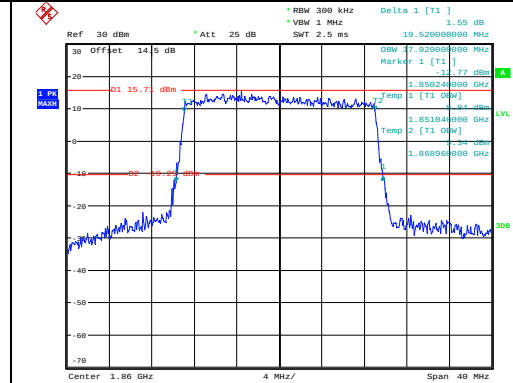
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

Lowest

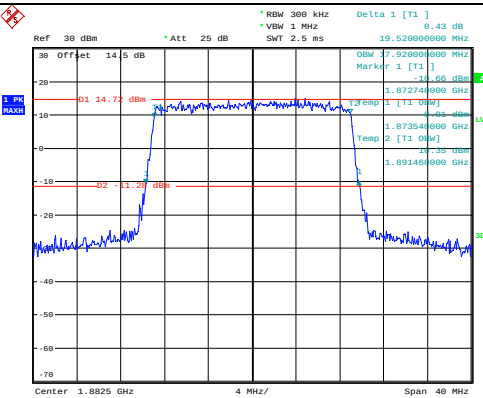


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:38:19

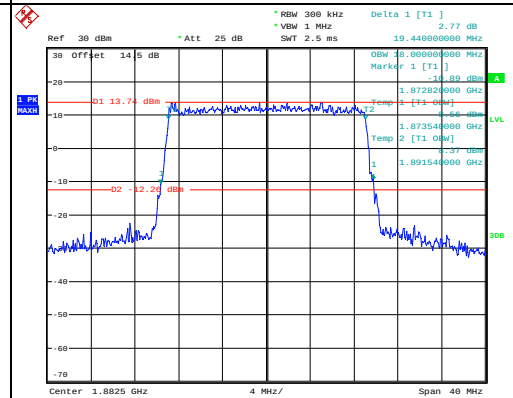


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:38:39

Middle

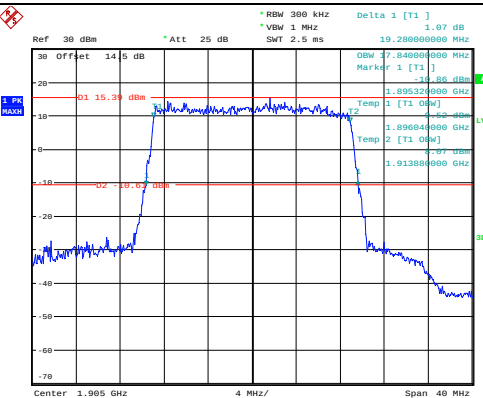


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:38:59

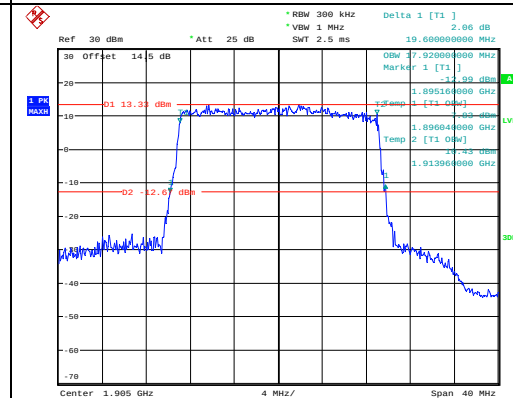


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:39:20

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:39:40



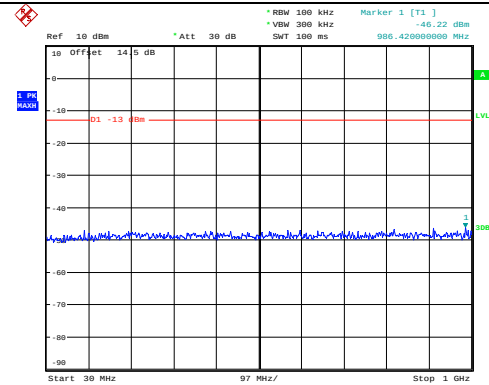
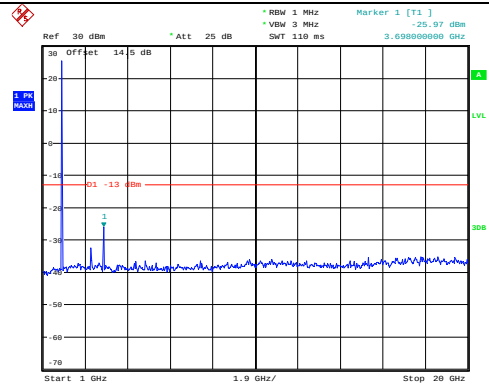
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:40:04

Spurious Emissions at Antenna Terminal

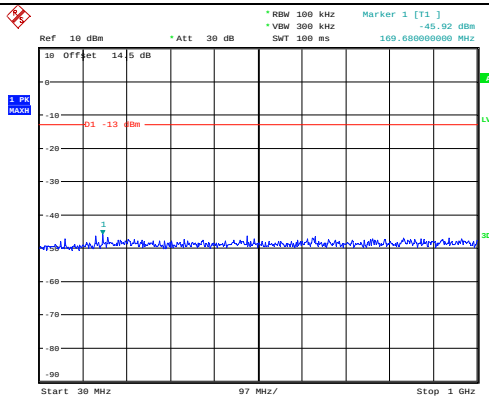
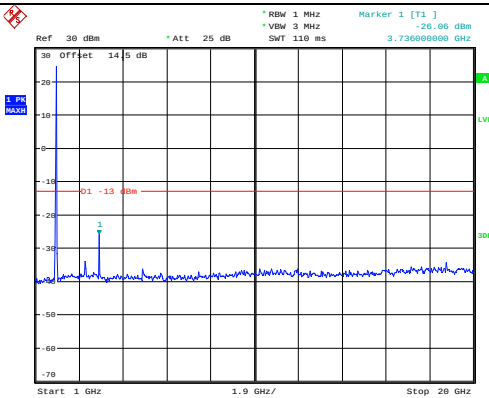
Channel

1.4MHz Bandwidth QPSK

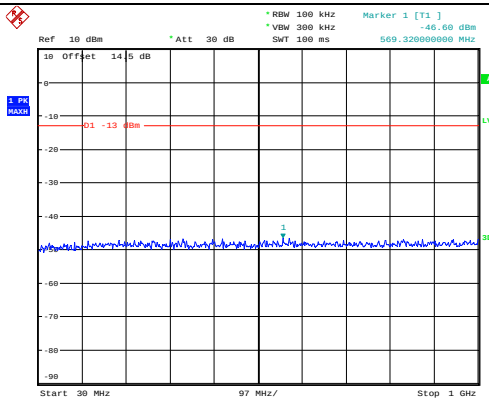
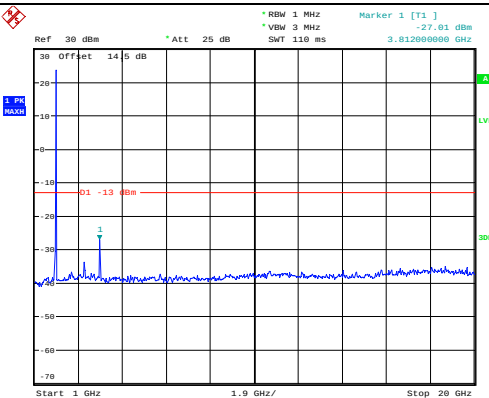
Lowest

ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:46:25ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:46:36

Middle

ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:46:48ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:46:59

Highest

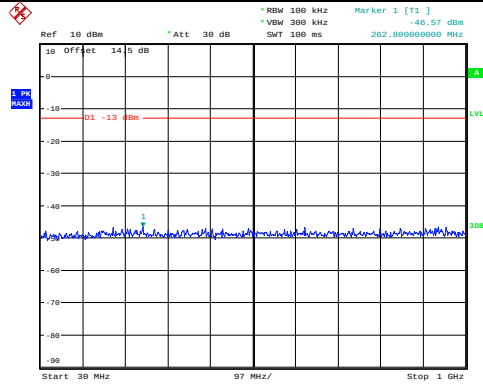
ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:47:15ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:47:25

Spurious Emissions at Antenna Terminal

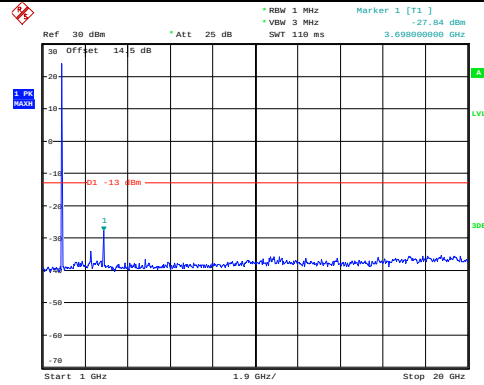
Channel

3MHz Bandwidth QPSK

Lowest

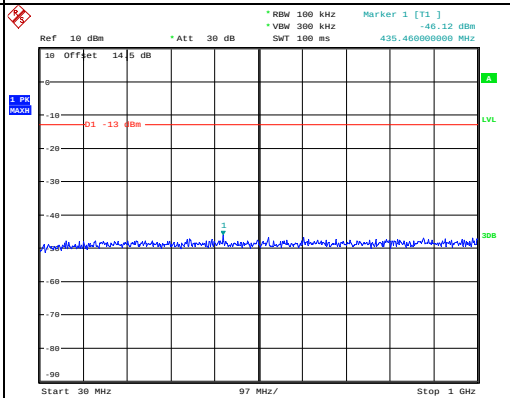


ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 21:48:16

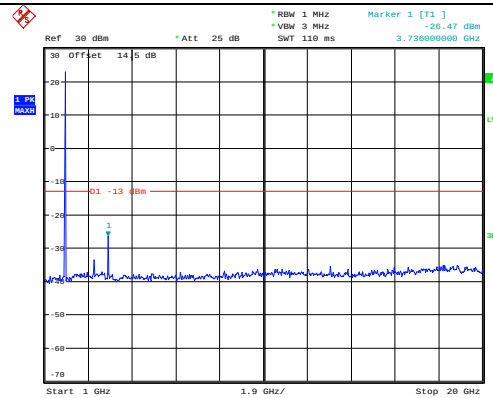


ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 21:48:27

Middle

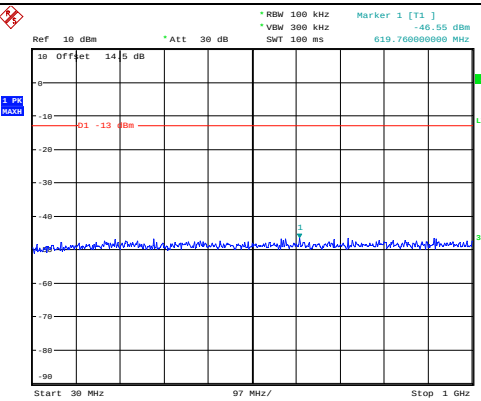


ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 21:48:39

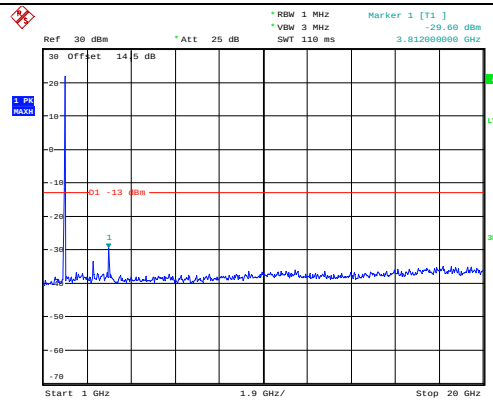


ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 21:48:50

Highest



ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 21:49:02



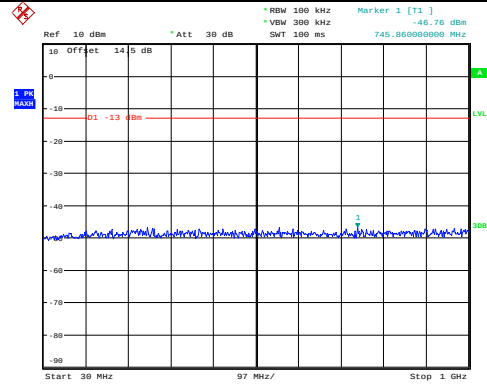
ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 21:49:13

Spurious Emissions at Antenna Terminal

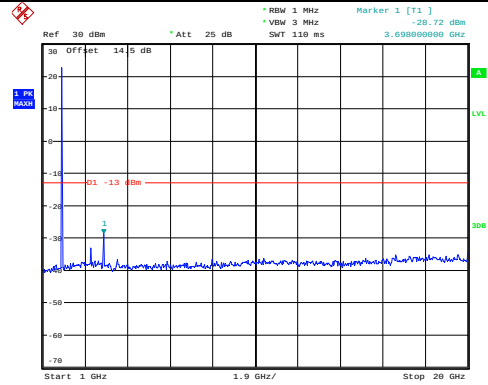
Channel

5MHz Bandwidth QPSK

Lowest

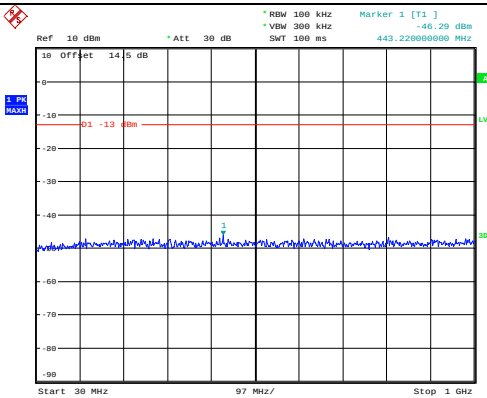


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:50:04

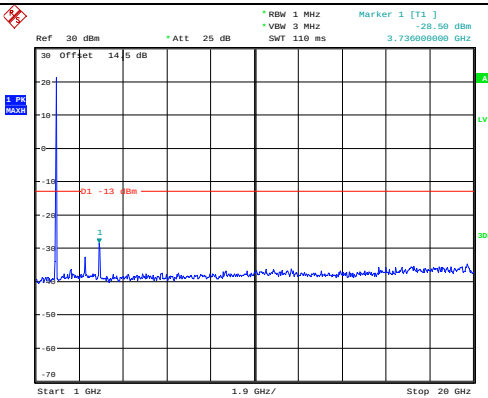


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:50:15

Middle

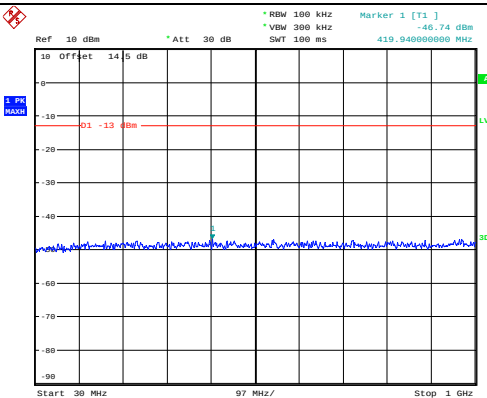


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:50:28

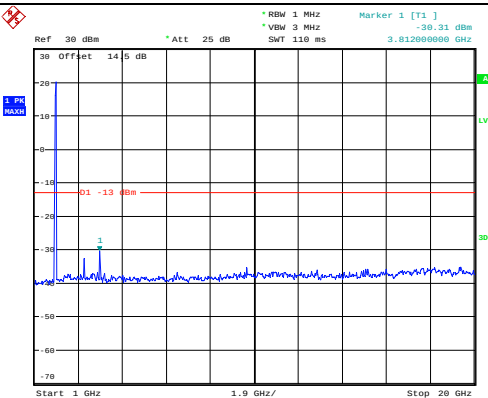


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:50:38

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:50:51



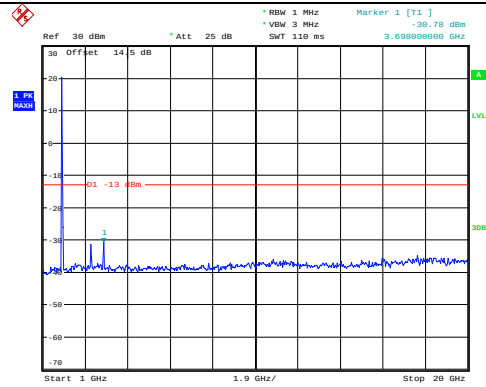
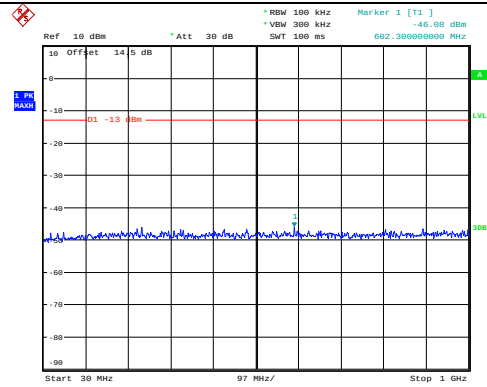
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:51:01

Spurious Emissions at Antenna Terminal

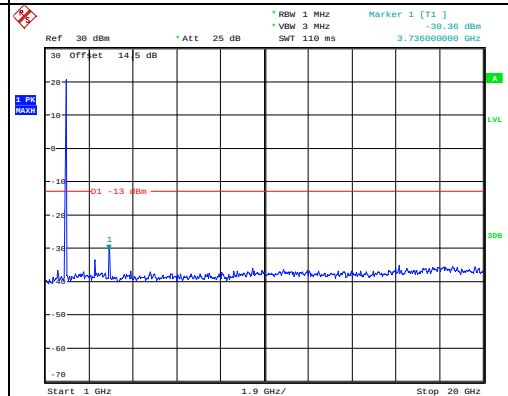
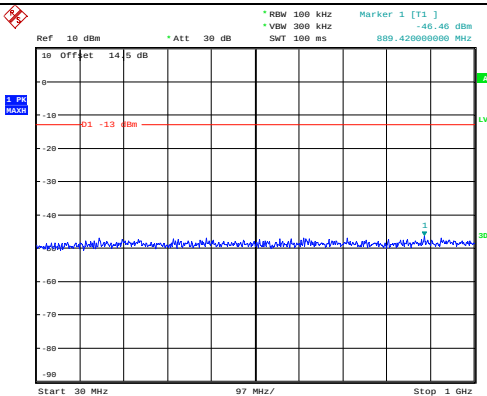
Channel

10MHz Bandwidth QPSK

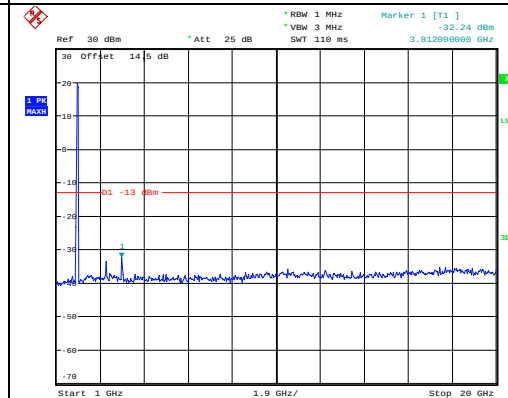
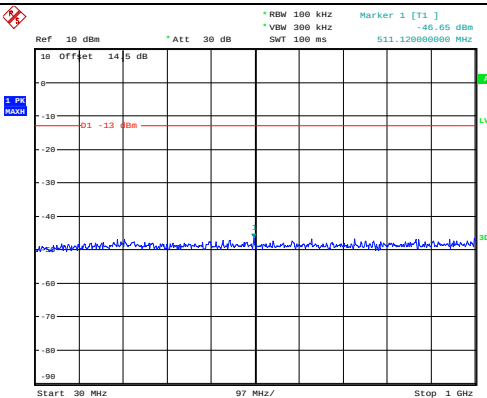
Lowest



Middle



Highest

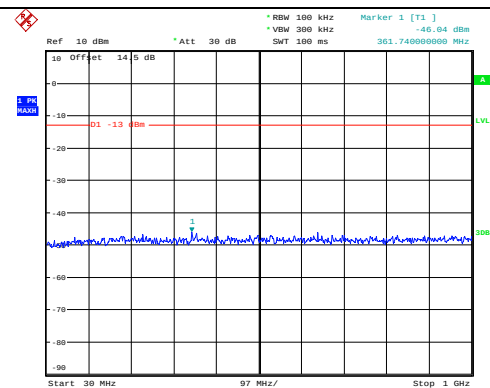


Spurious Emissions at Antenna Terminal

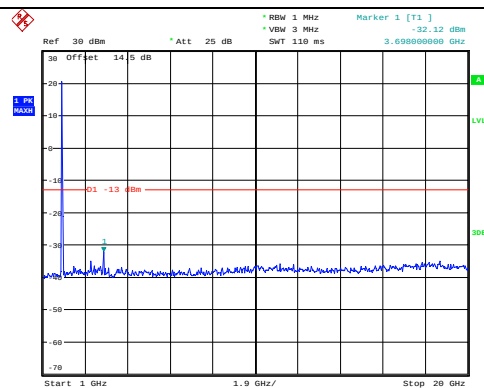
Channel

15MHz Bandwidth QPSK

Lowest

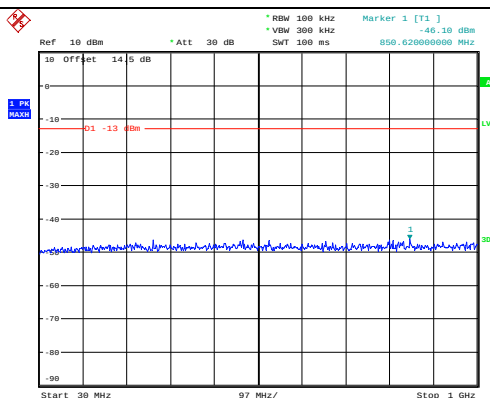


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:53:55

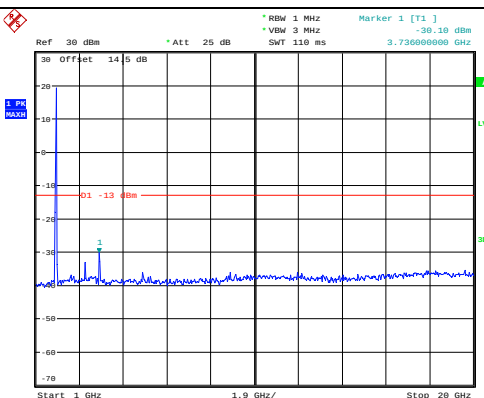


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:54:05

Middle

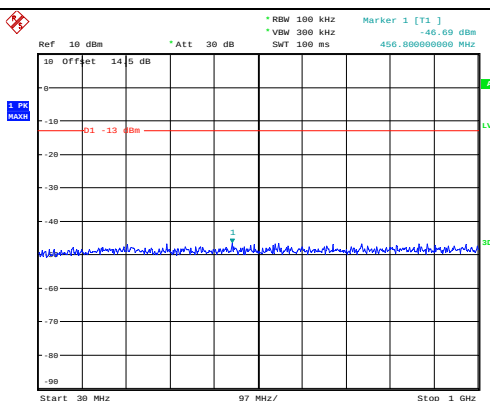


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:54:21

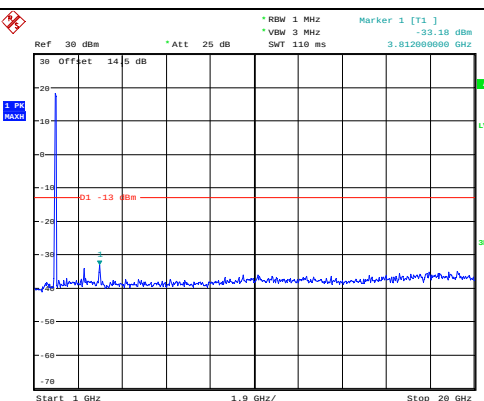


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:54:31

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:54:44



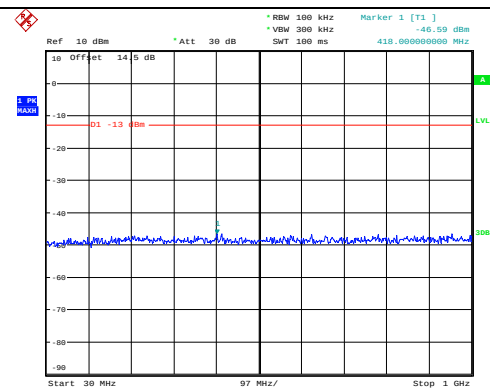
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:54:54

Spurious Emissions at Antenna Terminal

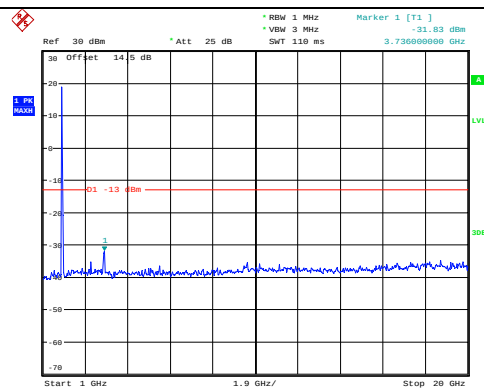
Channel

20MHz Bandwidth QPSK

Lowest

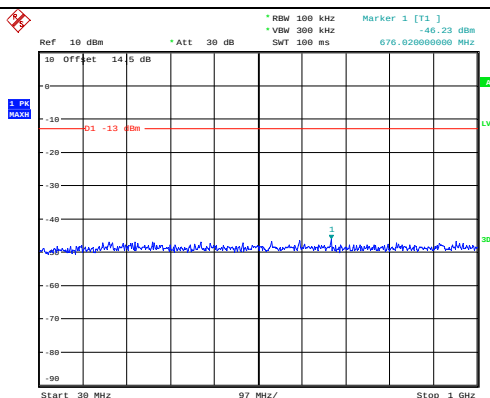


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:56:14

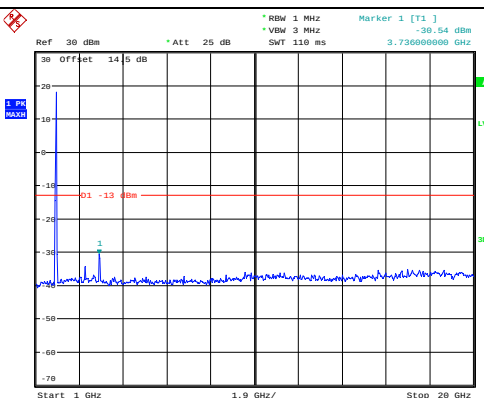


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:56:25

Middle

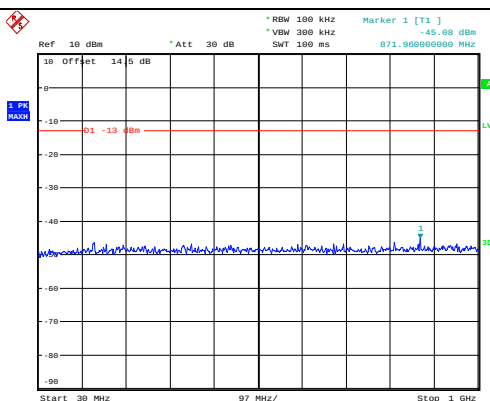


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:56:37

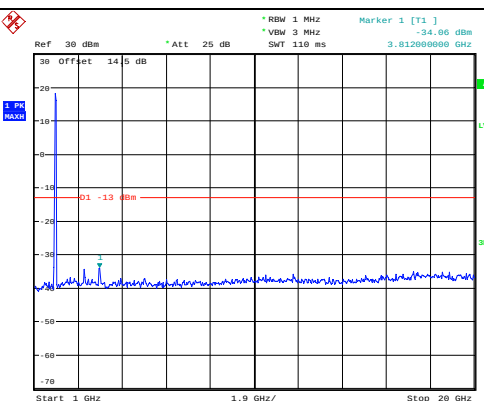


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:56:48

Highest

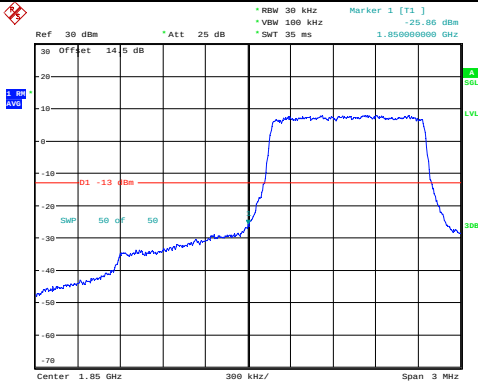
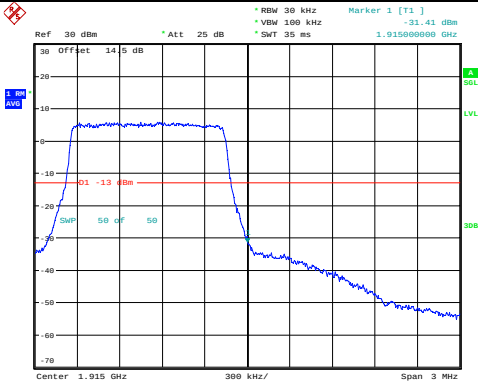
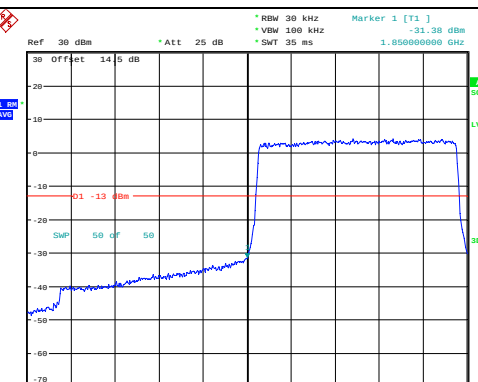
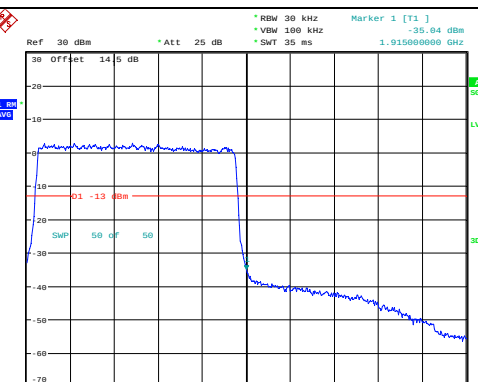
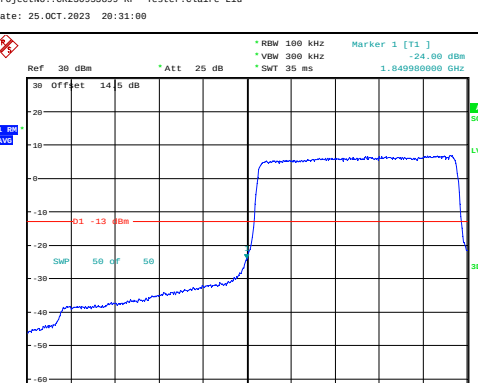


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:57:04



ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 21:57:14

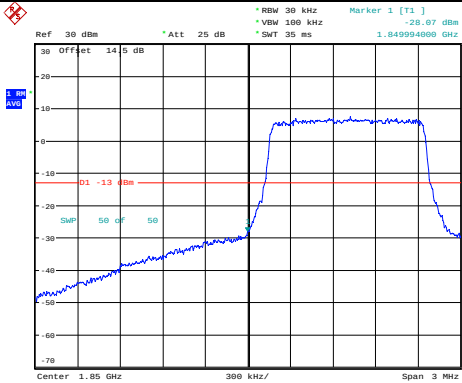
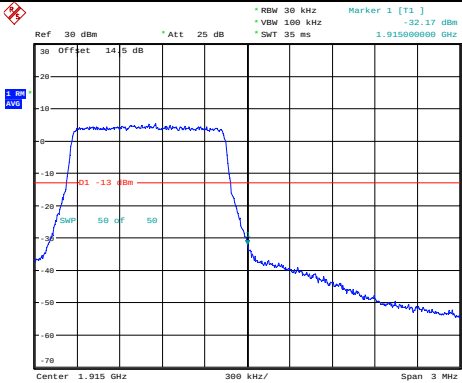
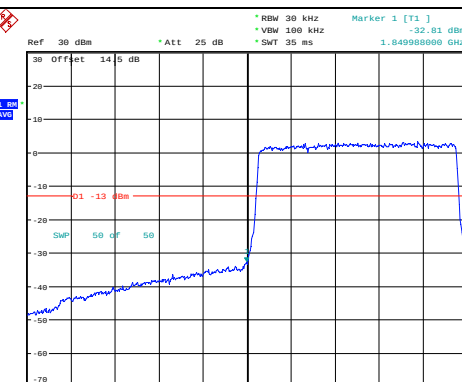
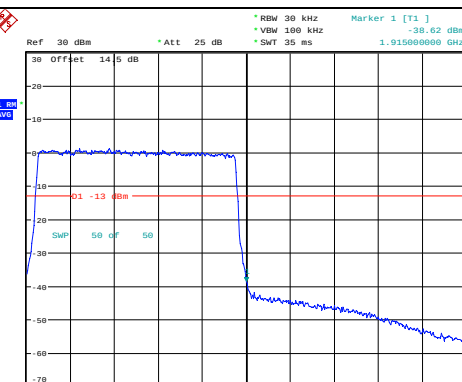
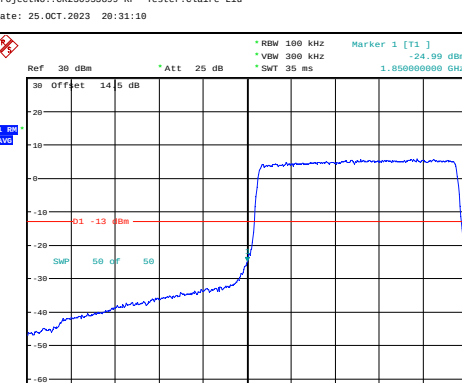
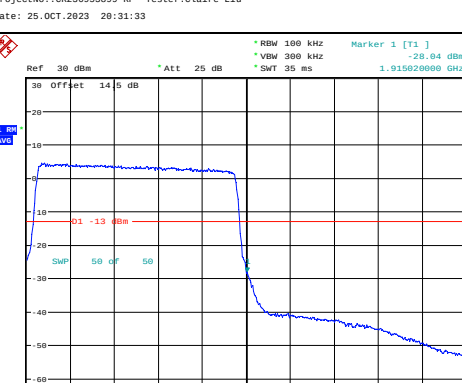
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	 Ref 30 dBm * Att 25 dB * RBW 30 kHz * VBW 100 kHz * SWT 35 ms * Marker 1 [T1] -25.86 dBm 1.850000000 GHz Center 1.85 GHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:29:40	 Ref 30 dBm * Att 25 dB * RBW 30 kHz * VBW 100 kHz * SWT 35 ms * Marker 1 [T1] -31.41 dBm 1.915000000 GHz Center 1.915 GHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:30:00
QPSK 3MHz	 Ref 30 dBm * Att 25 dB * RBW 30 kHz * VBW 100 kHz * SWT 35 ms * Marker 1 [T1] -31.38 dBm 1.850000000 GHz Center 1.85 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:31:00	 Ref 30 dBm * Att 25 dB * RBW 30 kHz * VBW 100 kHz * SWT 35 ms * Marker 1 [T1] -35.04 dBm 1.915000000 GHz Center 1.915 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:31:21
QPSK 5MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -24.00 dBm 1.849980000 GHz Center 1.85 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:32:22	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -26.44 dBm 1.915000000 GHz Center 1.915 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:32:43

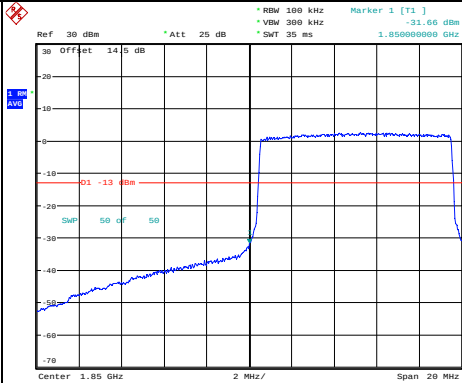
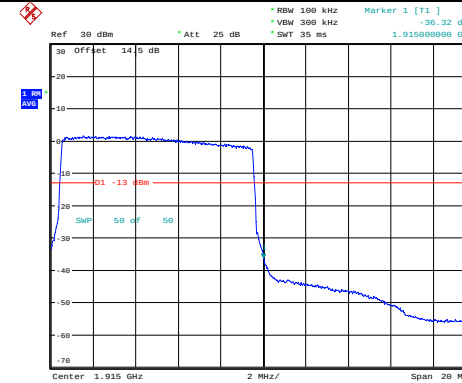
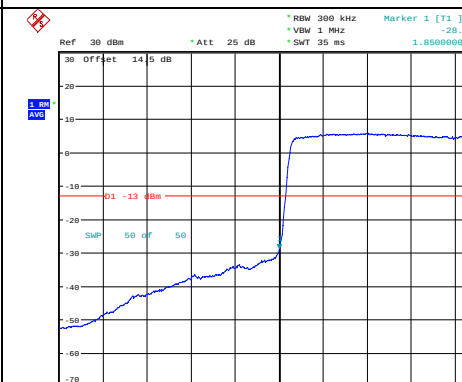
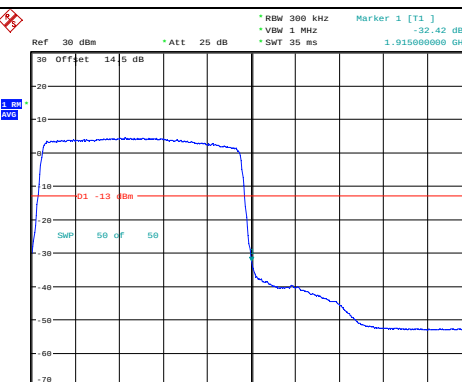
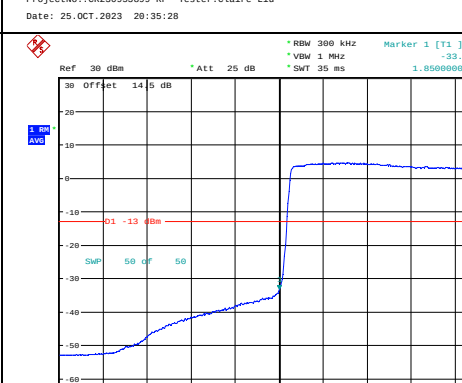
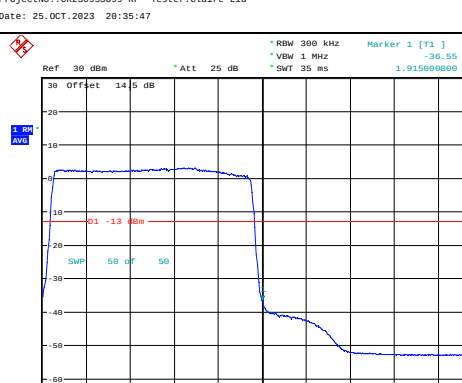
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -20.81 dBm 1.850000000 GHz Center 1.85 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:33:45	Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -24.88 dBm 1.915000000 GHz Center 1.915 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:34:10
QPSK 15MHz	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -26.99 dBm 1.850000000 GHz Center 1.85 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:35:19	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -30.74 dBm 1.915000000 GHz Center 1.915 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:35:38
QPSK 20MHz	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -32.97 dBm 1.850000000 GHz Center 1.85 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:36:44	Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -35.93 dBm 1.915000000 GHz Center 1.915 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:37:03

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -20.57 dBm 1.849954000 GHz Center 1.85 GHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:29:49	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -22.17 dBm 1.915000000 GHz Center 1.915 GHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:30:11
16QAM 3MHz	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -22.81 dBm 1.849980000 GHz Center 1.85 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:31:10	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -20.62 dBm 1.915000000 GHz Center 1.915 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:31:33
16QAM 5MHz	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -24.99 dBm 1.850000000 GHz Center 1.85 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:32:32	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -28.04 dBm 1.915020000 GHz Center 1.915 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:32:55

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * Marker 1 [T1] -21.66 dBm * VBW 300 kHz * SWT 35 ms 1.850000000 GHz Center 1.85 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:33:57	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * Marker 1 [T1] -26.22 dBm * VBW 300 kHz * SWT 35 ms 1.915000000 GHz Center 1.915 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:34:22
16QAM 15MHz	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -28.72 dBm * VBW 1 MHz * SWT 35 ms 1.850000000 GHz Center 1.85 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:35:28	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -32.42 dBm * VBW 1 MHz * SWT 35 ms 1.915000000 GHz Center 1.915 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:35:47
16QAM 20MHz	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -33.31 dBm * VBW 1 MHz * SWT 35 ms 1.850000000 GHz Center 1.85 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:36:54	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -36.55 dBm * VBW 1 MHz * SWT 35 ms 1.915000000 GHz Center 1.915 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:37:12

4.13 Antenna Port Test Data and Results for LTE Band 26

Serial Number:	2B7S-2	Test Date:	2023/10/17~2023/10/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	52~60	ATM Pressure: (kPa)	100.9~101.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency For 90S (MHz)	Highest Frequency For 90S (MHz)	Channel Cross 90S and 22H	Lowest Frequency For 22H (MHz)	Middle Frequency For 22H (MHz)	Highest Frequency For 22H (MHz)
1.4MHz	814.7	823.3	824	824.7	831.5	848.3
3MHz	815.5	822.5	824	825.5	831.5	847.5
5MHz	816.5	821.5	824	826.5	831.5	846.5
10MHz	819	/	824	829	831.5	844
15MHz	821.5	/	824	831.5	836.5	841.5

Test Data for Part 90S:**RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel For 90S	Highest Channel For 90S	Cross Channel		
1.4MHz QPSK	RB1#0	21.64	21.44	21.48	19.24	50
	RB1#3	21.53	21.45	21.6		
	RB1#5	21.32	21.4	21.71		
	RB3#0	21.66	21.82	21.53		
	RB3#3	21.72	21.81	21.46		
	RB6#0	20.41	20.44	20.39		
1.4MHz 16QAM	RB1#0	20.85	20.66	20.69	18.34	50
	RB1#3	20.79	20.87	20.81		
	RB1#5	20.92	20.72	20.77		
	RB3#0	20.39	20.6	20.64		
	RB3#3	20.5	20.56	20.56		
	RB6#0	19.42	19.48	19.46		
3MHz QPSK	RB1#0	21.52	21.8	21.79	19.22	50
	RB1#8	21.41	21.45	21.62		
	RB1#14	21.41	21.41	21.29		
	RB6#0	20.56	20.36	20.6		
	RB6#9	20.34	20.66	20.42		
	RB15#0	20.41	20.54	20.69		
3MHz 16QAM	RB1#0	20.54	20.65	21.03	18.71	50
	RB1#8	20.53	20.46	21.29		
	RB1#14	20.77	20.68	21.2		
	RB6#0	19.55	19.61	19.62		
	RB6#9	19.47	19.53	19.6		
	RB15#0	19.61	19.75	19.86		
5MHz QPSK	RB1#0	21.66	21.64	21.44	19.28	50
	RB1#13	21.86	21.48	21.66		
	RB1#24	21.46	21.3	21.28		
	RB15#0	20.73	20.56	20.47		
	RB15#10	20.83	20.6	20.44		
	RB25#0	20.6	20.5	20.72		
5MHz 16QAM	RB1#0	20.55	20.73	20.59	18.28	50
	RB1#13	20.29	20.79	20.86		
	RB1#24	20.53	20.66	20.78		
	RB15#0	19.82	19.56	19.84		
	RB15#10	19.5	19.55	19.71		
	RB25#0	19.65	19.55	19.82		
10MHz QPSK	RB1#0	21.31	/	21.53	19.25	50
	RB1#25	21.83	/	21.83		

	RB1#49	21.49	/	21.53		
	RB25#0	20.53	/	20.66		
	RB25#25	20.76	/	20.73		
	RB50#0	20.65	/	20.87		
10MHz 16QAM	RB1#0	20.92	/	20.62	18.84	50
	RB1#25	21.37	/	20.66		
	RB1#49	21.42	/	20.44		
	RB25#0	19.75	/	20.05		
	RB25#25	19.47	/	19.51		
	RB50#0	19.86	/	19.57		
15MHz QPSK	RB1#0	21.52	/	21.63	19.08	50
	RB1#38	21.51	/	21.66		
	RB1#74	21.37	/	21.4		
	RB36#0	20.91	/	20.98		
	RB36#39	20.52	/	20.58		
	RB75#0	20.89	/	20.7		
15MHz 16QAM	RB1#0	20.48	/	21.36	19.08	50
	RB1#38	20.8	/	21.2		
	RB1#74	20.93	/	20.85		
	RB36#0	19.84	/	19.89		
	RB36#39	19.92	/	19.56		
	RB75#0	19.68	/	19.82		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

Result:

Pass

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Lowest For 90S	Highest For 90S	Cross	Lowest For 90S	Highest For 90S	Cross
1.4MHz QPSK	1.098	1.098	1.11	1.314	1.312	1.331
1.4MHz 16QAM	1.092	1.11	1.098	1.29	1.326	1.304
3MHz QPSK	2.687	2.688	2.688	2.88	2.896	2.892
3MHz 16QAM	2.687	2.688	2.688	2.88	2.892	2.895
5MHz QPSK	4.48	4.5	4.5	4.92	4.875	4.849
5MHz 16QAM	4.52	4.5	4.5	4.94	4.856	4.861
10MHz QPSK	8.96	/	8.96	9.6	/	9.621
10MHz 16QAM	8.96	/	8.96	9.64	/	9.677
15MHz QPSK	13.56	/	13.5	14.76	/	14.879
15MHz 16QAM	13.5	/	13.56	14.76	/	14.848

Spurious Emissions at Antenna Terminal

Result:

Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

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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Frequency Stability

Test Modulation:	15 MHz QPSK		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	17	0.020	2.5
	-20	3.85	29	0.035	2.5
	-10	3.85	8	0.010	2.5
	0	3.85	13	0.016	2.5
	10	3.85	4	0.005	2.5
	20	3.85	12	0.014	2.5
	30	3.85	4	0.005	2.5
	40	3.85	6	0.007	2.5
Frequency Stability vs. Voltage	50	3.85	26	0.031	2.5
	20	3.4	32	0.038	2.5
	20	4.4	30	0.036	2.5
Result:				Pass	

Frequency Stability

Test Modulation:	15 MHz 16QAM		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	2	0.002	2.5
	-20	3.85	21	0.025	2.5
	-10	3.85	22	0.026	2.5
	0	3.85	15	0.018	2.5
	10	3.85	6	0.007	2.5
	20	3.85	27	0.032	2.5
	30	3.85	11	0.013	2.5
	40	3.85	30	0.036	2.5
	50	3.85	21	0.025	2.5
Frequency Stability vs. Voltage	20	3.4	26	0.031	2.5
	20	4.4	20	0.024	2.5
Result:				Pass	

Test Data for Part 22H:**RF Output Power**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H		
1.4MHz QPSK	RB1#0	21.74	21.76	21.74	19.41	38.45
	RB1#3	21.99	21.93	21.97		
	RB1#5	21.78	21.75	21.74		
	RB3#0	21.9	21.83	21.86		
	RB3#3	21.89	21.88	21.83		
	RB6#0	20.86	20.85	20.89		
1.4MHz 16QAM	RB1#0	20.94	20.81	20.79	18.52	38.45
	RB1#3	21.1	20.99	20.96		
	RB1#5	20.93	20.79	20.78		
	RB3#0	20.83	20.97	21.01		
	RB3#3	20.87	20.96	21.04		
	RB6#0	19.9	19.82	19.86		
3MHz QPSK	RB1#0	21.83	21.87	21.81	19.29	38.45
	RB1#8	21.87	21.75	21.81		
	RB1#14	21.82	21.81	21.76		
	RB6#0	20.84	20.83	20.81		
	RB6#9	20.81	20.8	20.75		
	RB15#0	20.87	20.88	20.9		
3MHz 16QAM	RB1#0	21.02	20.88	21.37	18.79	38.45
	RB1#8	21.01	20.83	21.31		
	RB1#14	20.95	20.9	21.3		
	RB6#0	19.86	19.79	19.89		
	RB6#9	19.88	19.79	19.83		
	RB15#0	19.81	19.93	19.91		
5MHz QPSK	RB1#0	21.74	21.77	21.72	19.33	38.45
	RB1#13	21.91	21.83	21.81		
	RB1#24	21.75	21.73	21.7		
	RB15#0	20.8	20.92	20.91		
	RB15#10	20.85	20.83	20.84		
	RB25#0	20.84	20.86	20.89		
5MHz 16QAM	RB1#0	20.63	21.08	20.86	18.58	38.45
	RB1#13	20.77	21.16	20.96		
	RB1#24	20.7	21.03	20.79		
	RB15#0	19.85	19.85	19.96		
	RB15#10	19.91	19.79	19.87		
	RB25#0	19.89	19.89	19.9		
10MHz QPSK	RB1#0	21.81	21.8	21.83	19.44	38.45

	RB1#25	21.96	21.95	22.02		
	RB1#49	21.81	21.85	21.87		
	RB25#0	20.89	20.94	21		
	RB25#25	20.93	20.85	20.91		
	RB50#0	20.89	20.91	20.93		
10MHz 16QAM	RB1#0	21.4	21	20.89	18.94	38.45
	RB1#25	21.52	21.12	21.08		
	RB1#49	21.45	20.99	20.86		
	RB25#0	19.93	19.96	20.12		
	RB25#25	19.96	19.88	20.01		
	RB50#0	19.93	19.93	19.98		
15MHz QPSK	RB1#0	21.83	21.81	21.74	19.36	38.45
	RB1#38	21.94	21.87	21.86		
	RB1#74	21.83	21.78	21.75		
	RB36#0	20.93	20.9	21		
	RB36#39	20.91	20.9	20.98		
	RB75#0	20.9	20.95	20.99		
15MHz 16QAM	RB1#0	20.95	21.26	21.43	18.9	38.45
	RB1#38	21.07	21.26	21.48		
	RB1#74	20.98	21.22	21.25		
	RB36#0	19.96	19.87	19.96		
	RB36#39	19.95	19.84	19.95		
	RB75#0	19.99	19.95	19.96		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15

Result:

Pass

Peak-to-average Ratio(PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H	
15MHz QPSK	RB1#0	5.58	5.97	5.58	13
	RB75#0	5.99	5.71	5.93	13
15MHz 16QAM	RB1#0	6.23	6.26	6.58	13
	RB75#0	6.76	6.57	6.79	13
				Result:	Pass

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H	Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H
1.4MHz QPSK	1.104	1.104	1.092	1.299	1.296	1.29

1.4MHz 16QAM	1.098	1.098	1.11	1.304	1.296	1.32
3MHz QPSK	2.676	2.687	2.687	2.88	2.868	2.856
3MHz 16QAM	2.676	2.687	2.687	2.897	2.856	2.868
5MHz QPSK	4.5	4.5	4.52	4.872	4.88	4.94
5MHz 16QAM	4.48	4.52	4.5	4.823	4.98	4.88
10MHz QPSK	8.96	8.96	8.96	9.658	9.56	9.56
10MHz 16QAM	8.96	8.96	8.96	9.602	9.52	9.52
15MHz QPSK	13.56	13.5	13.5	14.777	14.52	14.76
15MHz 16QAM	13.56	13.5	13.5	14.811	14.7	14.76

Note: The test plots please refer to the Plots of Occupied Bandwidth

Frequency Stability

Test Modulation:	15 MHz QPSK		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	17	0.020	2.5
	-20	3.85	36	0.043	2.5
	-10	3.85	40	0.048	2.5
	0	3.85	9	0.011	2.5
	10	3.85	3	0.004	2.5
	20	3.85	29	0.035	2.5
	30	3.85	1	0.001	2.5
	40	3.85	2	0.002	2.5
	50	3.85	15	0.018	2.5
Frequency Stability vs. Voltage	20	3.4	9	0.011	2.5
	20	4.4	34	0.041	2.5
				Result:	Pass

FCC §2.1055, §22.355, §90.213: Frequency Stability

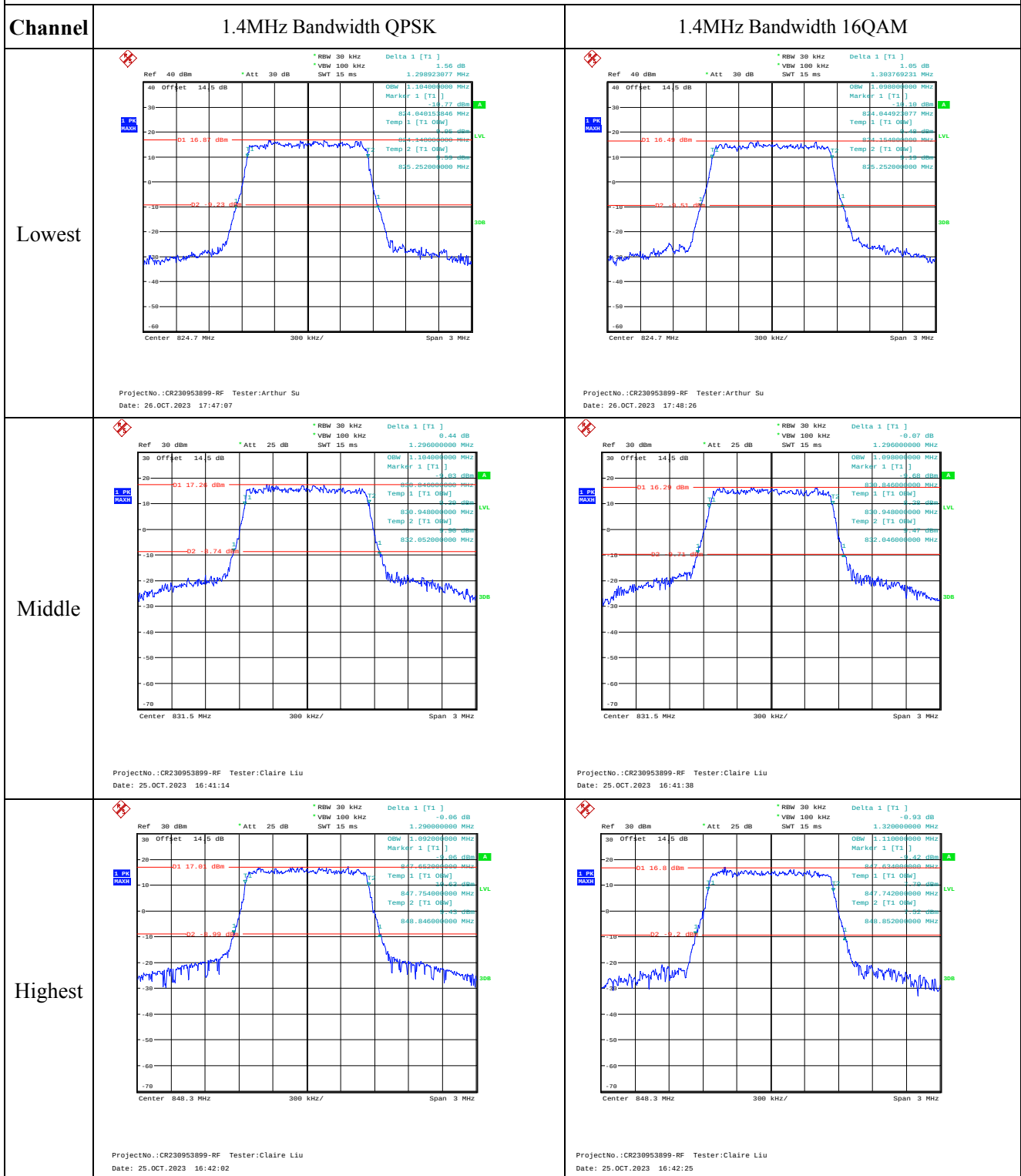
Test Modulation:	15 MHz 16QAM		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	12	0.014	2.5
	-20	3.85	18	0.022	2.5
	-10	3.85	3	0.004	2.5
	0	3.85	10	0.012	2.5
	10	3.85	8	0.010	2.5
	20	3.85	19	0.023	2.5
	30	3.85	7	0.008	2.5
	40	3.85	31	0.037	2.5
	50	3.85	33	0.040	2.5
Frequency Stability vs. Voltage	20	3.4	27	0.032	2.5
	20	4.4	16	0.019	2.5

Result:	Pass
----------------	-------------

Test Plots(Note: The 14.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Part 22:

Occupied Bandwidth



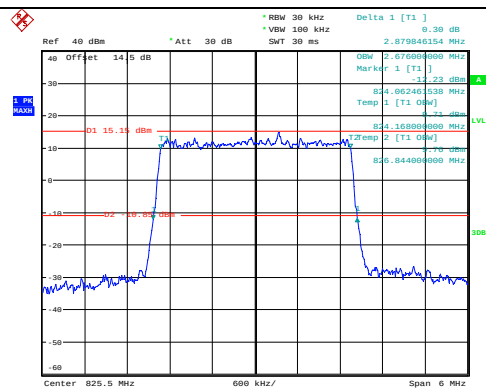
Occupied Bandwidth

Channel

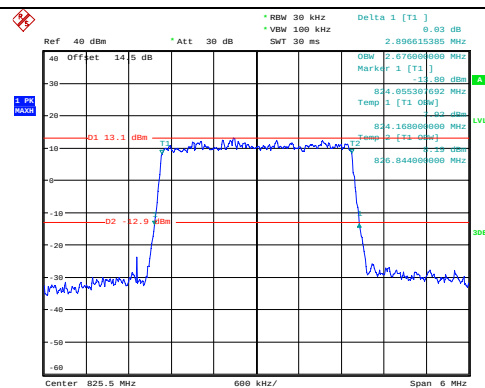
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

Lowest

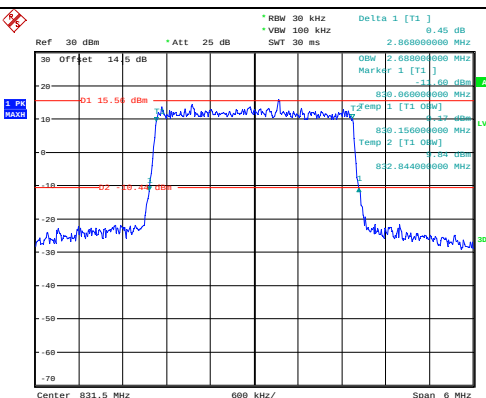


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 18:48:22

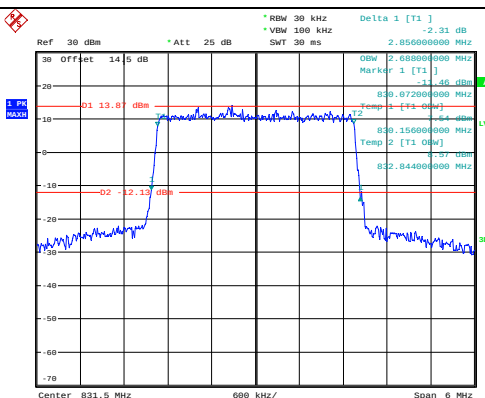


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 18:41:57

Middle

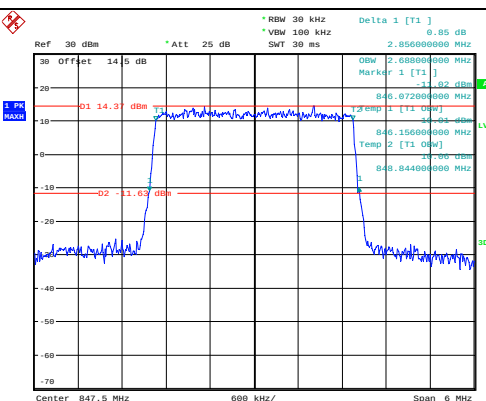


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:44:05

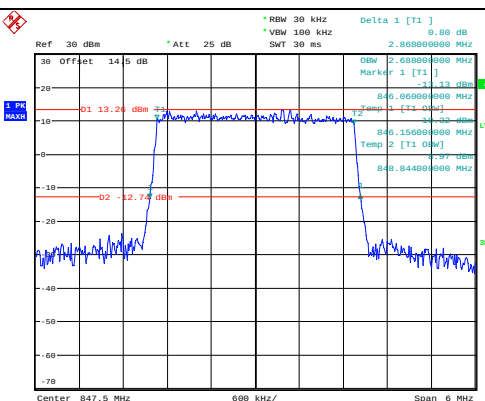


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:44:25

Highest



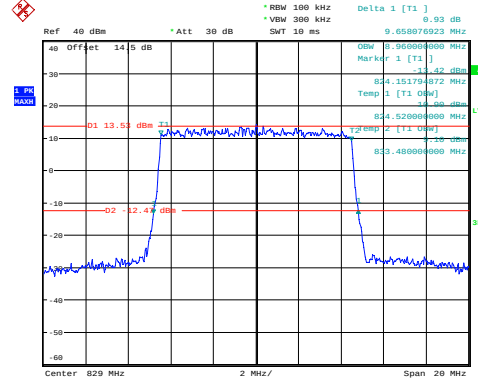
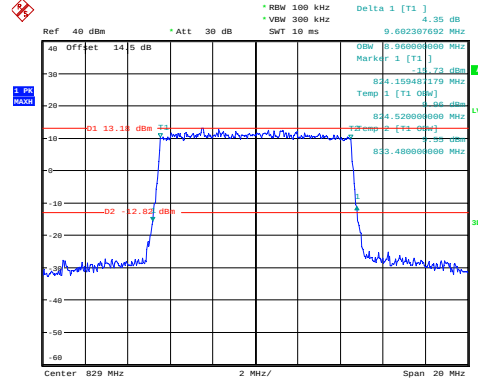
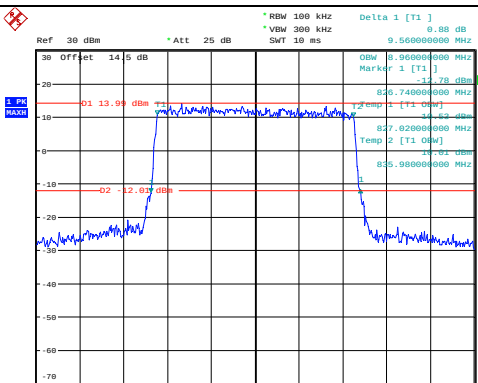
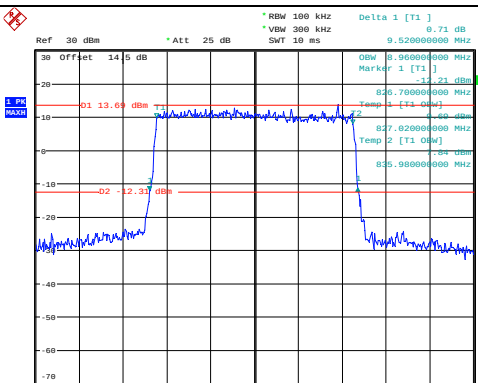
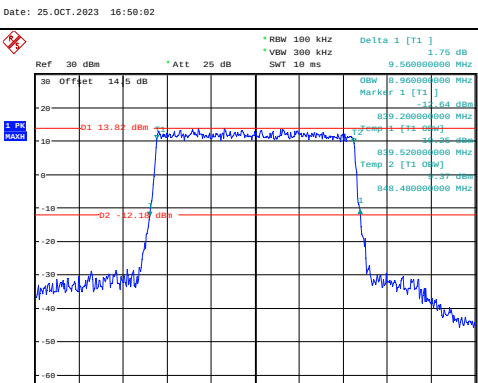
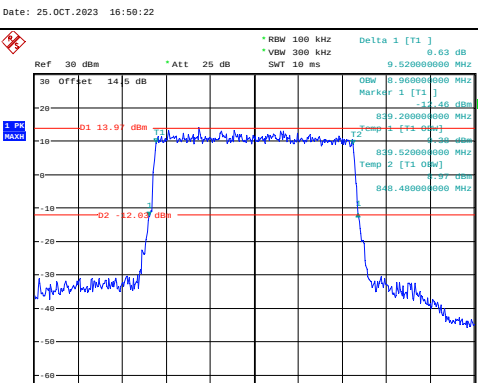
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:44:43



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:45:06

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:03:34	ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:07:29
	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:47:04	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:47:24
Highest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:47:48	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:48:11

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Ref 40 dBm *Att 30 dB *RBW 100 kHz Delta 1 [T1] 0.93 dB *VBW 300 kHz SWT 10 ms 9.55876923 MHz Offset 14.5 dB Marker 1 [T1] 13.53 dB OSW 9.55876923 MHz 829.151794872 MHz Temp 1 [T1 0dB] 13.53 dB 829.529000000 MHz 829.480000000 MHz LVL 30B Center 829 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:15:45	 Ref 40 dBm *Att 30 dB *RBW 100 kHz Delta 1 [T1] 4.35 dB *VBW 300 kHz SWT 10 ms 9.602387652 MHz Offset 14.5 dB Marker 1 [T1] 13.10 dB OSW 9.602387652 MHz 829.15948179 MHz Temp 1 [T1 0dB] 13.10 dB 829.529000000 MHz 829.480000000 MHz LVL 30B Center 829 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:36:22
Middle	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.88 dB *VBW 300 kHz SWT 10 ms 9.560000000 MHz Offset 14.5 dB Marker 1 [T1] 13.09 dB OSW 9.560000000 MHz 831.740000000 MHz Temp 1 [T1 0dB] 13.09 dB 831.520000000 MHz 831.980000000 MHz LVL 30B Center 831.5 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:58:02	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.71 dB *VBW 300 kHz SWT 10 ms 9.520000000 MHz Offset 14.5 dB Marker 1 [T1] 13.09 dB OSW 9.520000000 MHz 831.721111111 MHz Temp 1 [T1 0dB] 13.09 dB 831.520000000 MHz 831.980000000 MHz LVL 30B Center 831.5 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:58:22
Highest	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 1.75 dB *VBW 300 kHz SWT 10 ms 9.560000000 MHz Offset 14.5 dB Marker 1 [T1] 13.82 dB OSW 9.560000000 MHz 839.200000000 MHz Temp 1 [T1 0dB] 13.82 dB 839.520000000 MHz 839.480000000 MHz LVL 30B Center 844 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:58:45	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.63 dB *VBW 300 kHz SWT 10 ms 9.520000000 MHz Offset 14.5 dB Marker 1 [T1] 13.97 dB OSW 9.520000000 MHz 839.200000000 MHz Temp 1 [T1 0dB] 13.97 dB 839.520000000 MHz 839.480000000 MHz LVL 30B Center 844 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:51:08

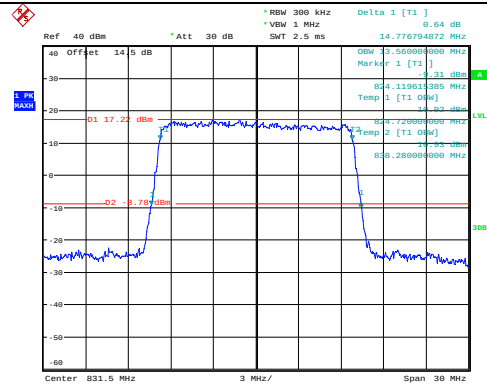
Occupied Bandwidth

Channel

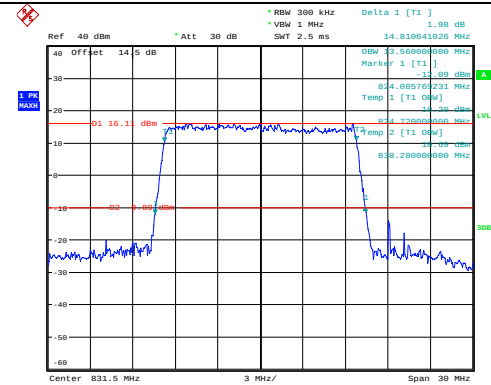
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

Lowest

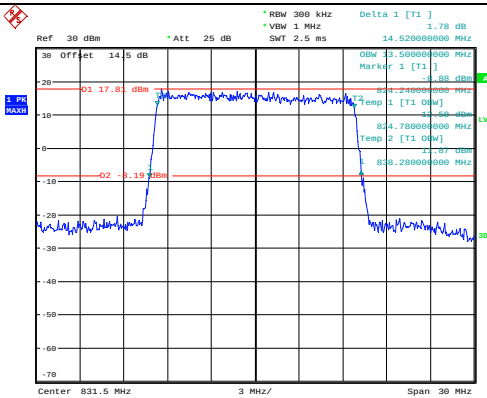


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 19:29:32

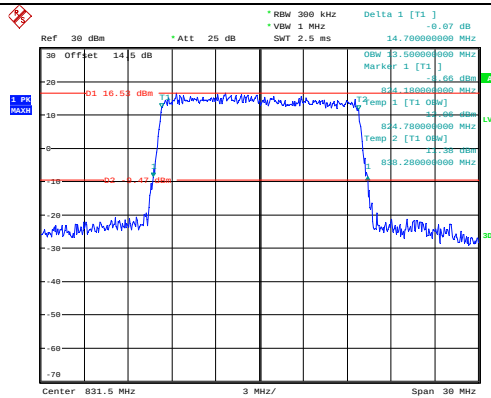


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 19:31:58

Middle

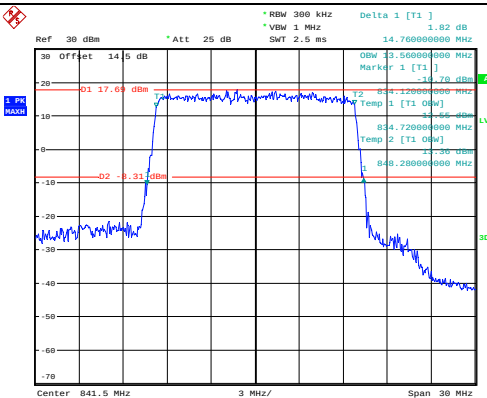


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:53:09

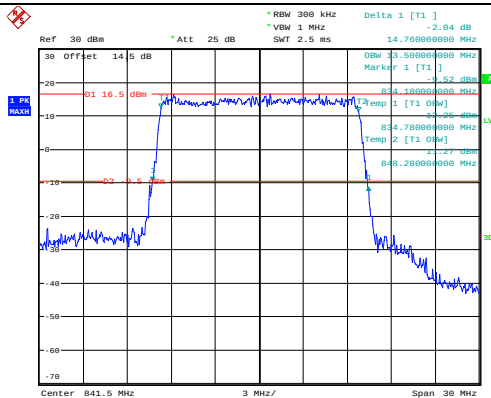


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:53:29

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:53:49



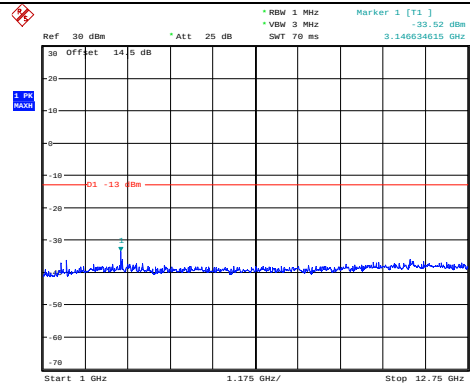
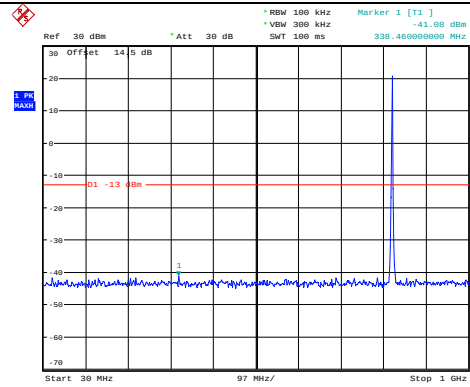
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:54:10

Spurious Emissions at Antenna Terminal

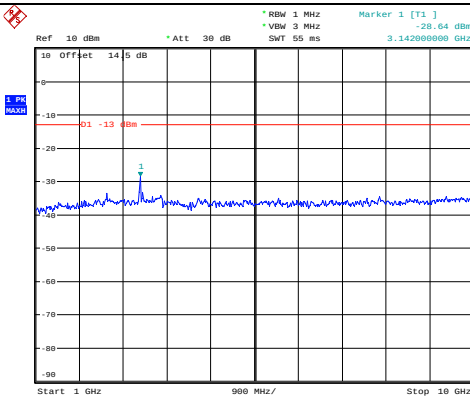
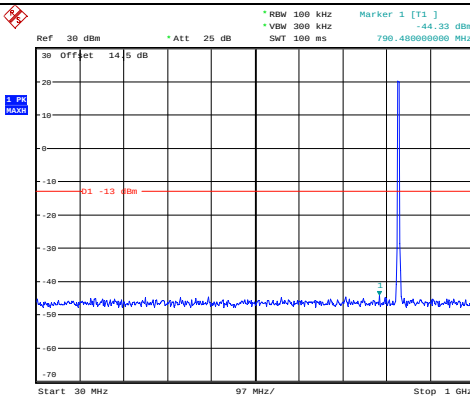
Channel

1.4MHz Bandwidth QPSK

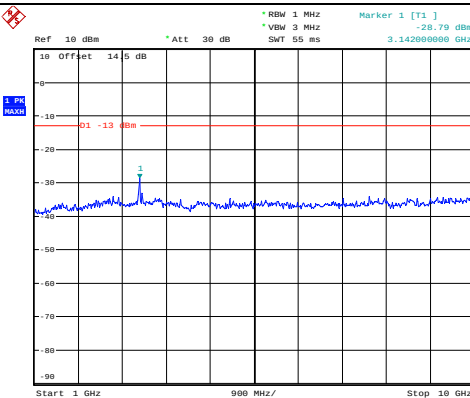
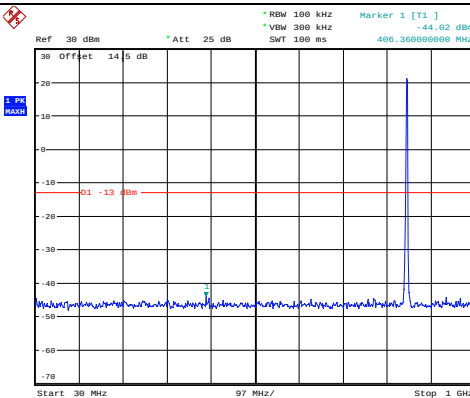
Lowest



Middle



Highest

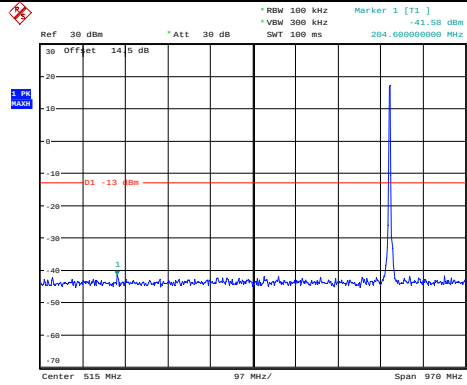


Spurious Emissions at Antenna Terminal

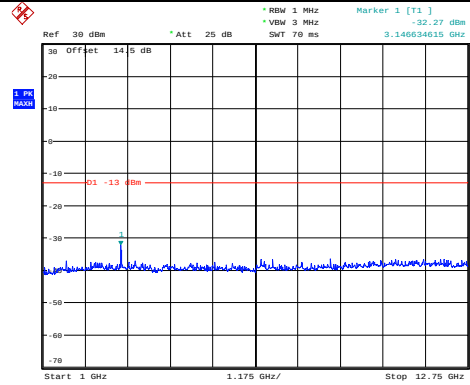
Channel

3MHz Bandwidth QPSK

Lowest

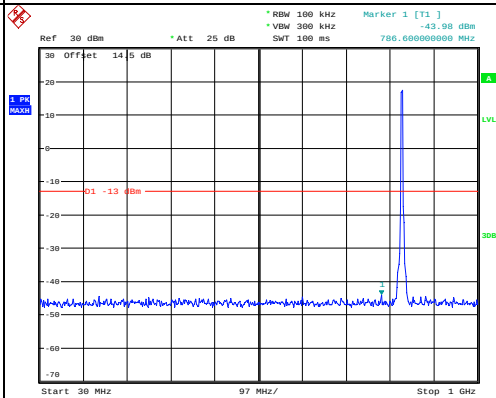


ProjectNo.:CR230953899-RF Tester:Arthur Su
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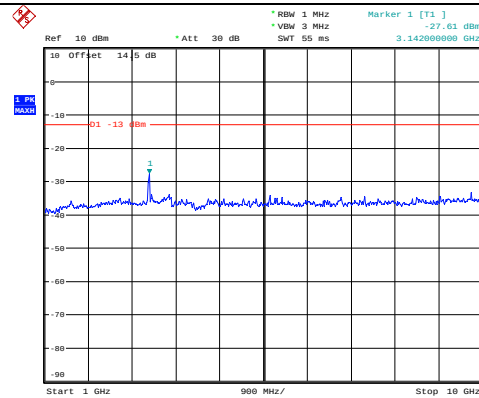


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 20:17:58

Middle

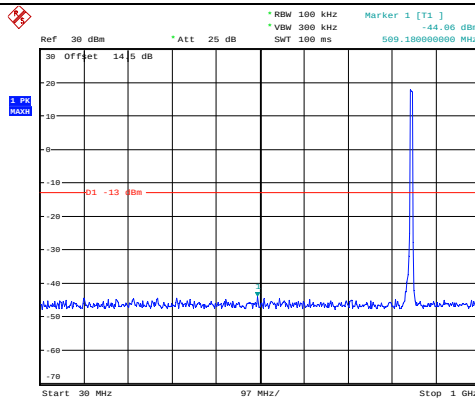


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:59:47

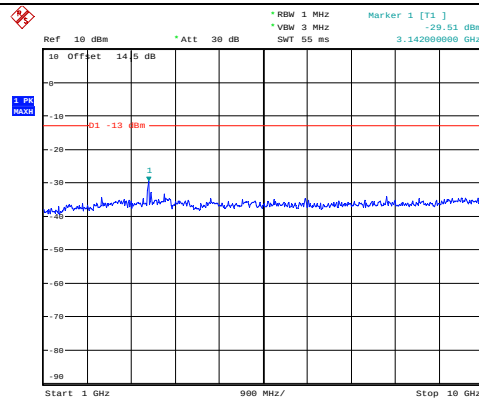


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 21:59:57

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:00:10



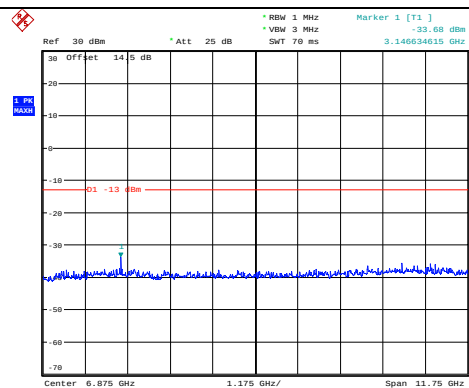
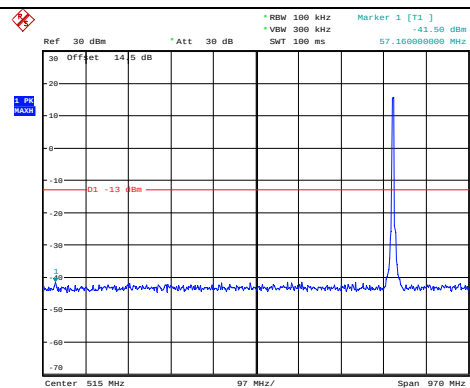
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Date: 25.OCT.2023 22:00:20

Spurious Emissions at Antenna Terminal

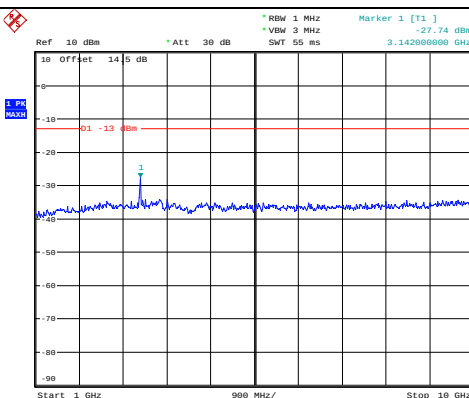
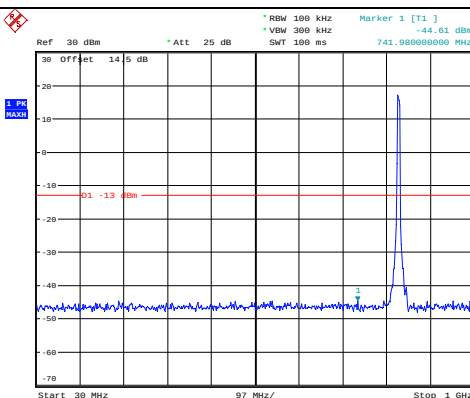
Channel

5MHz Bandwidth QPSK

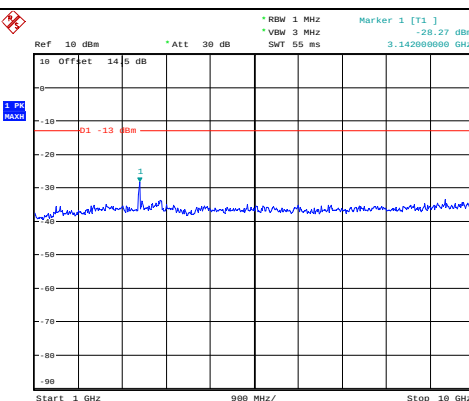
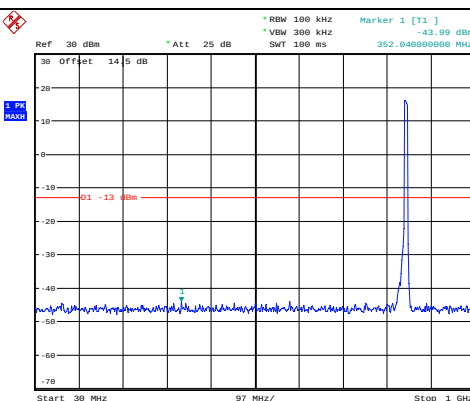
Lowest



Middle



Highest

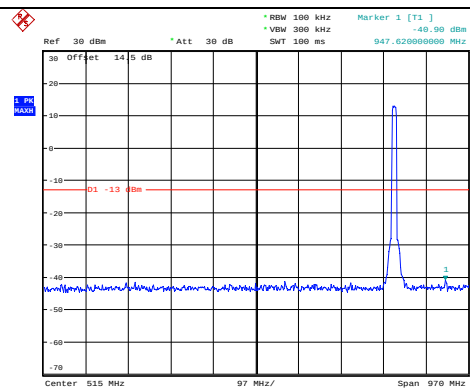


Spurious Emissions at Antenna Terminal

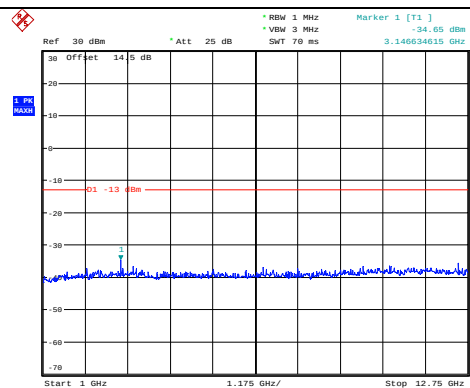
Channel

10MHz Bandwidth QPSK

Lowest

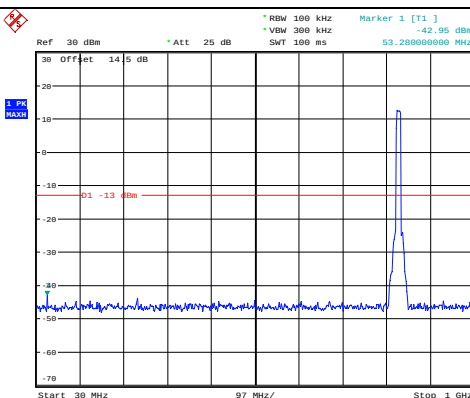


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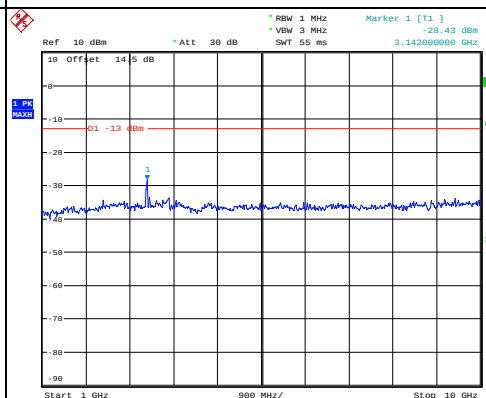


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Middle

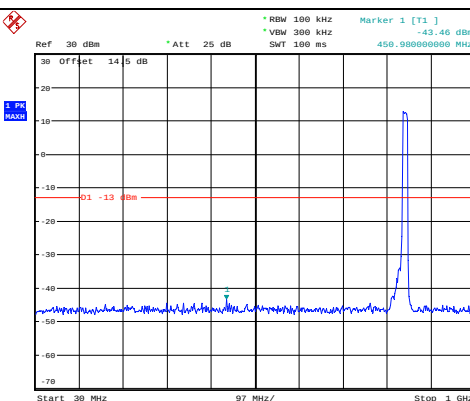


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 26.OCT.2023 22:03:46

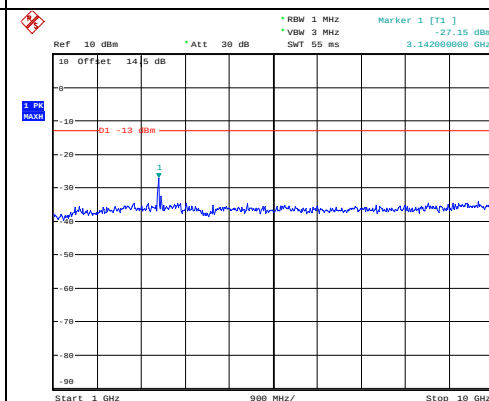


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:03:56

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:04:09



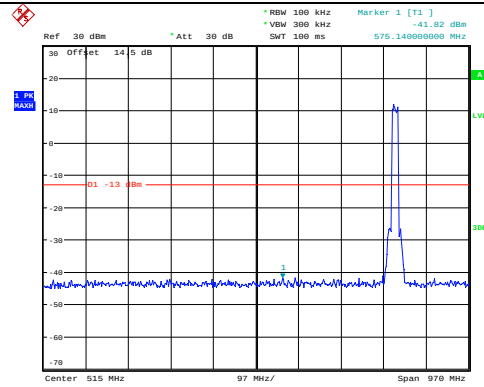
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Spurious Emissions at Antenna Terminal

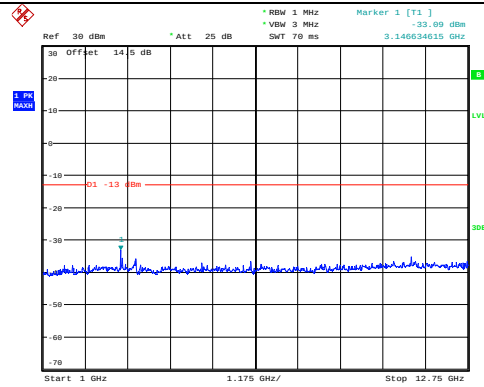
Channel

15MHz Bandwidth QPSK

Lowest

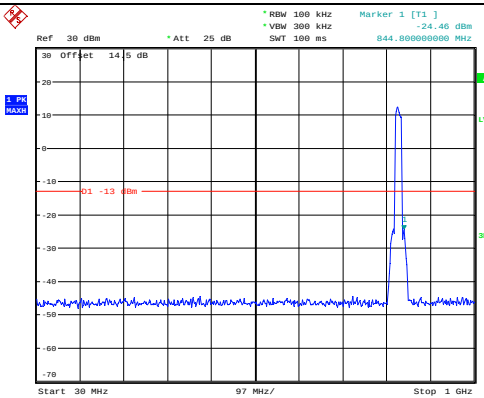


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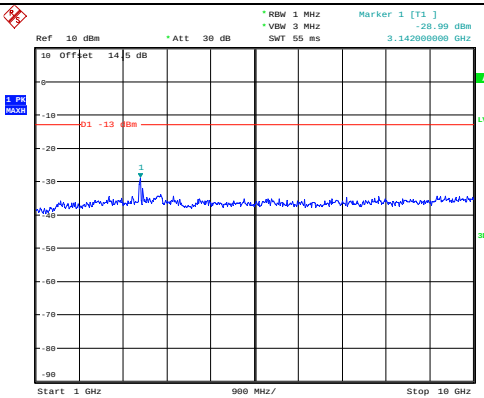


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 20:27:22

Middle

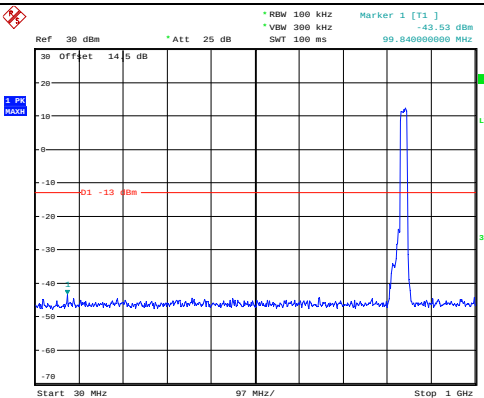


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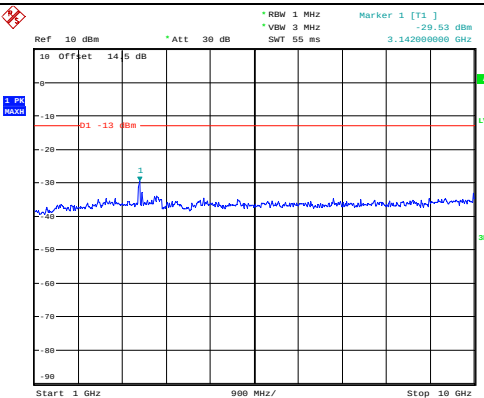


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:06:00

Highest

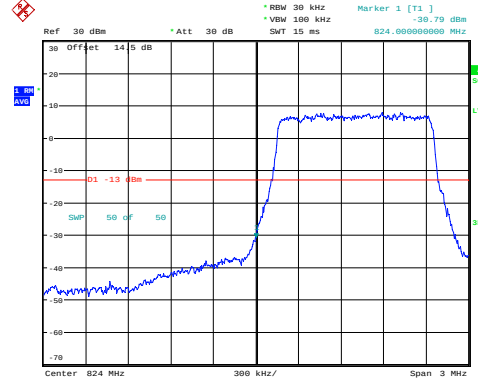
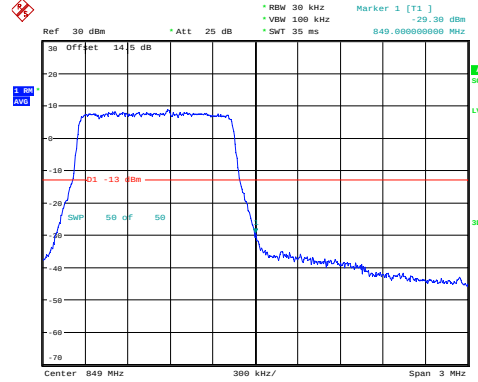
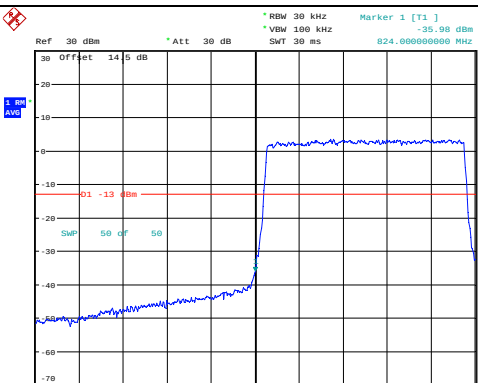
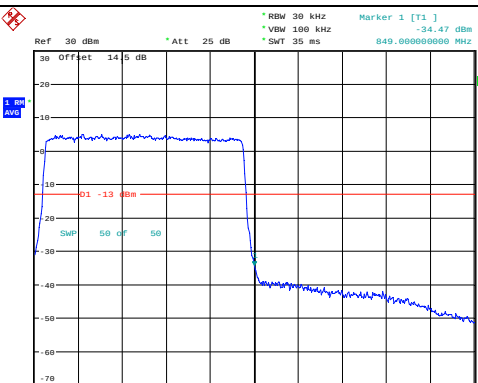
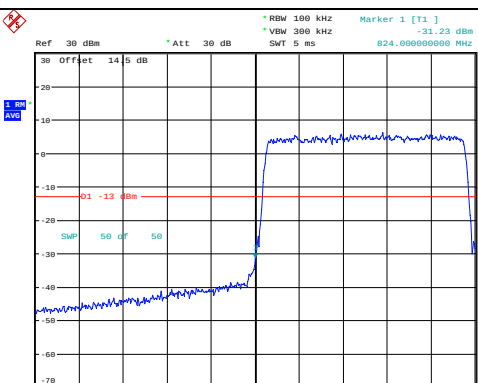
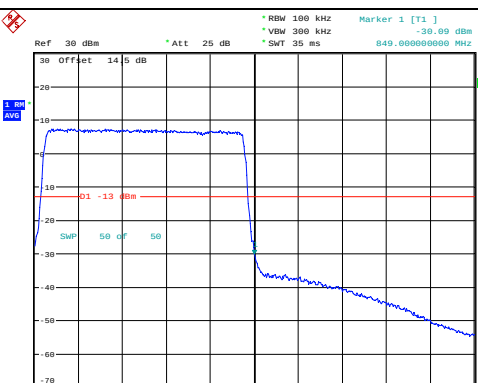


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:06:16

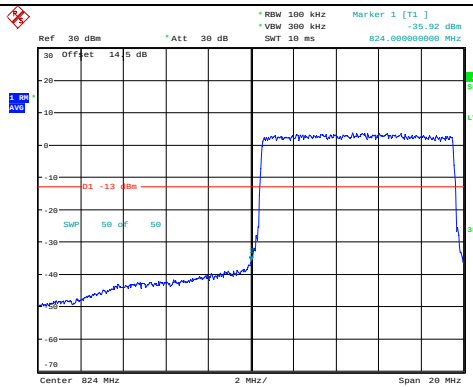
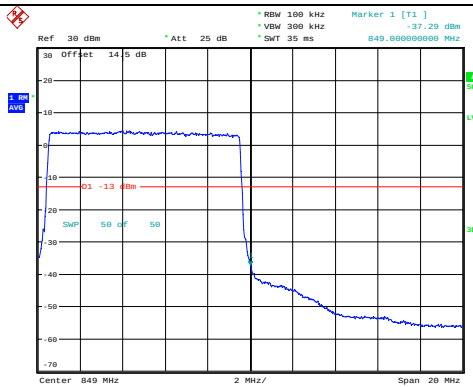
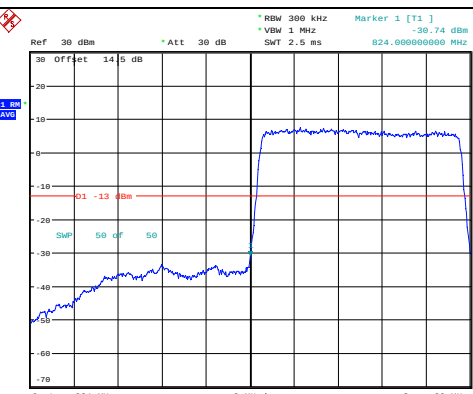
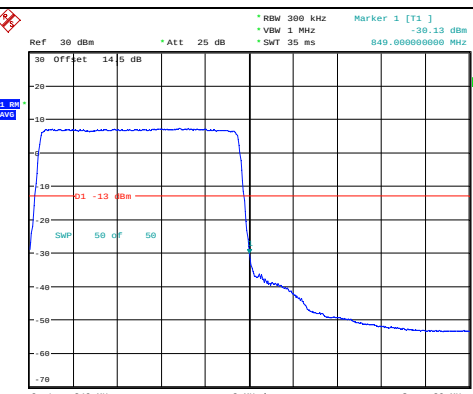


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:06:27

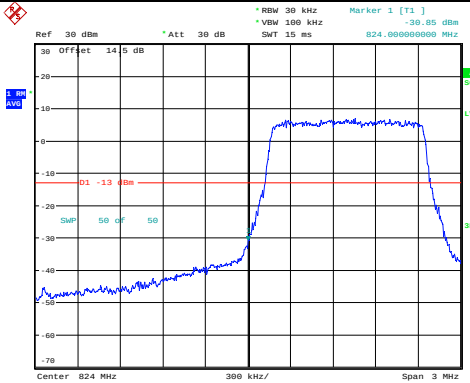
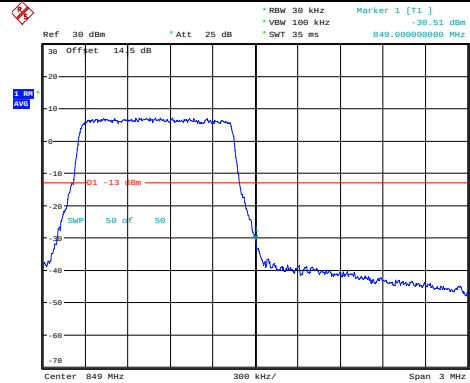
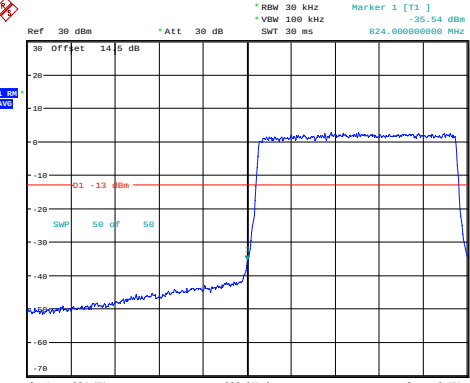
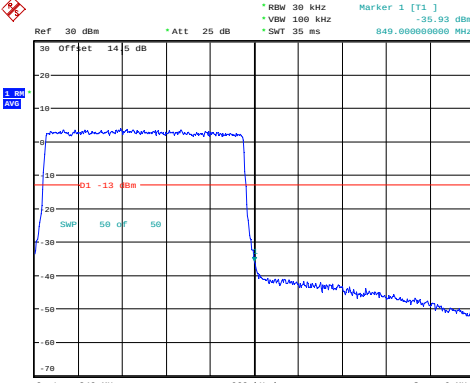
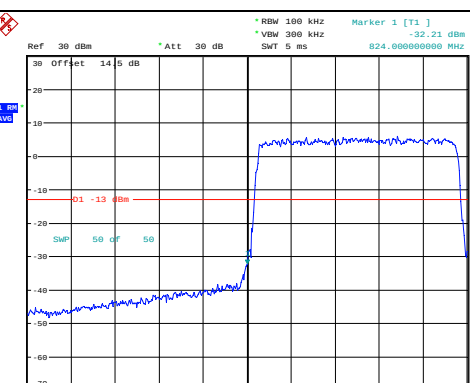
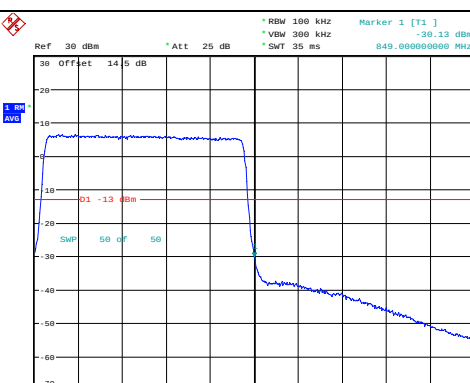
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:56:53	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:37:45
QPSK 3MHz	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:59:15	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:39:04
QPSK 5MHz	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:02:15	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:40:33

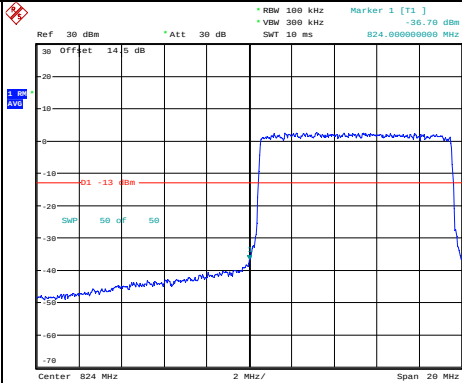
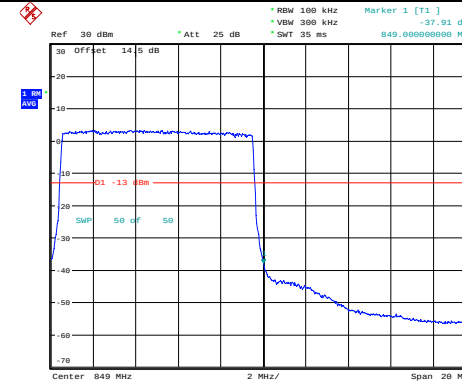
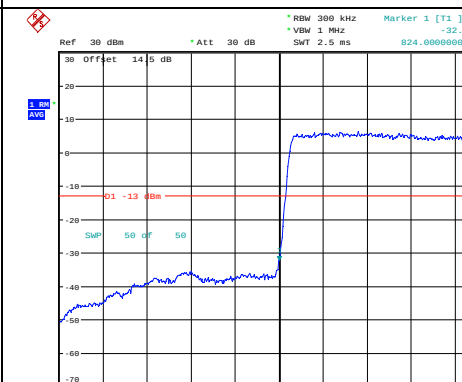
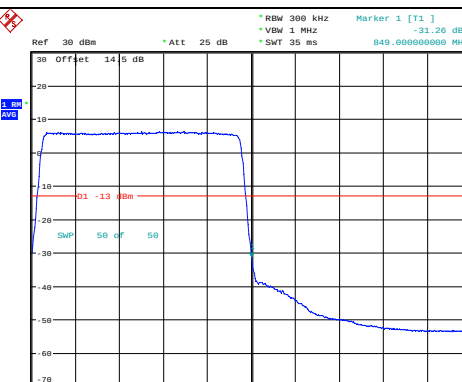
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:03:45	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:42:07
QPSK 15MHz	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:05:17	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:43:44

Out of band emission, Band Edge

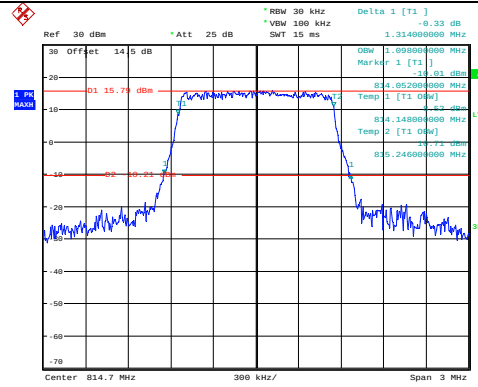
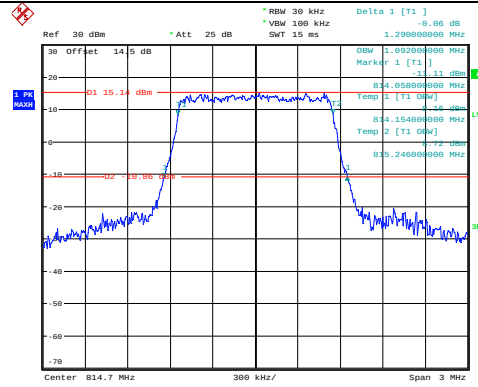
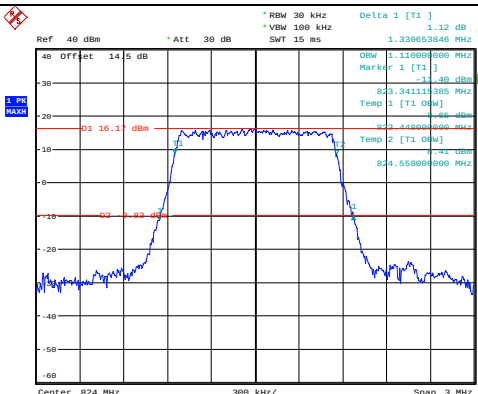
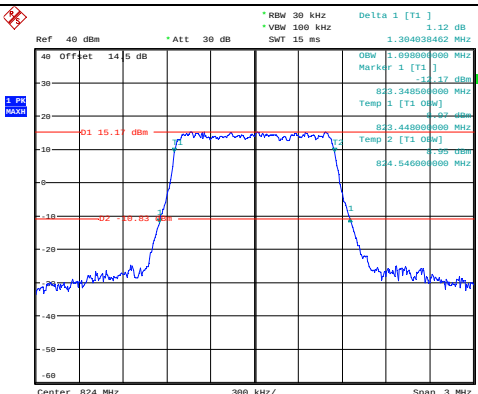
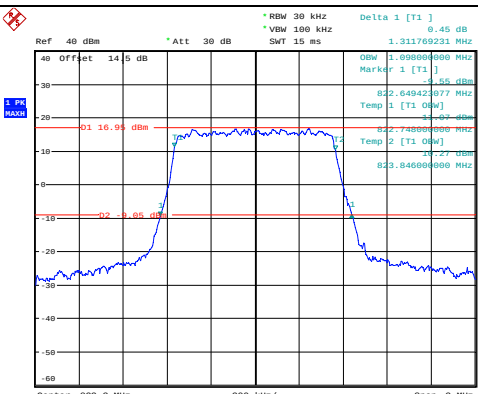
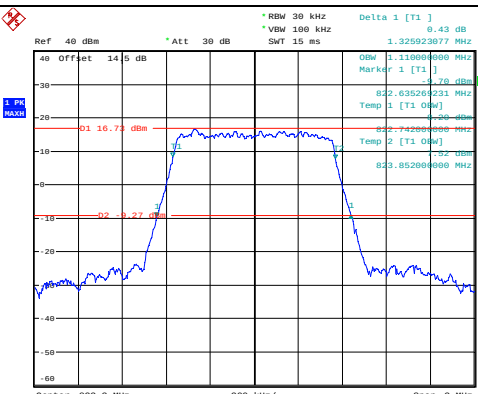
Mode	Lowest	Highest
16QAM 1.4MHz	 Ref 30 dBm *Att 30 dB *RBW 30 kHz *VBW 100 kHz *SWT 15 ms Marker 1 [T1] -30.85 dBm 824.000000000 MHz Center 824 MHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:56:30	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -30.51 dBm 849.000000000 MHz Center 849 MHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:37:55
16QAM 3MHz	 Ref 30 dBm *Att 30 dB *RBW 30 kHz *VBW 100 kHz *SWT 30 ms Marker 1 [T1] -35.54 dBm 824.000000000 MHz Center 824 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:58:46	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -35.93 dBm 849.000000000 MHz Center 849 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:39:15
16QAM 5MHz	 Ref 30 dBm *Att 30 dB *RBW 100 kHz *VBW 300 kHz *SWT 5 ms Marker 1 [T1] -32.21 dBm 824.000000000 MHz Center 824 MHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:01:55	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -30.13 dBm 849.000000000 MHz Center 849 MHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:48:44

Out of band emission, Band Edge

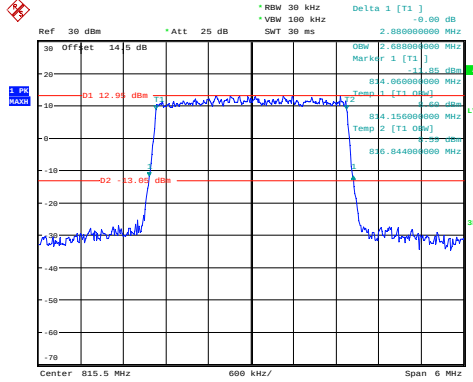
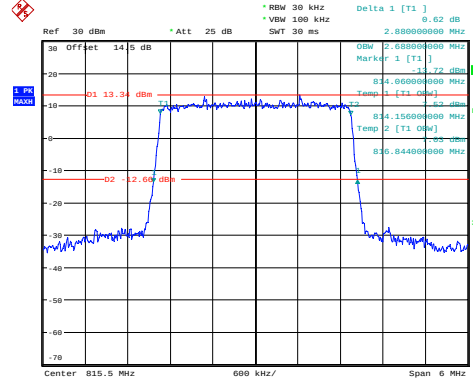
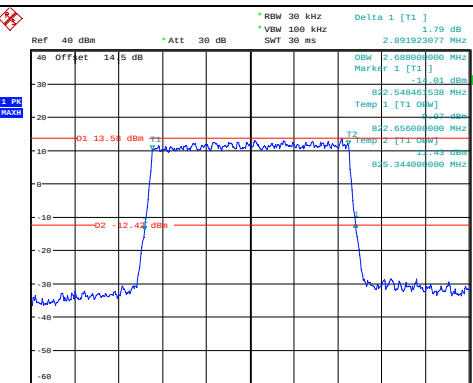
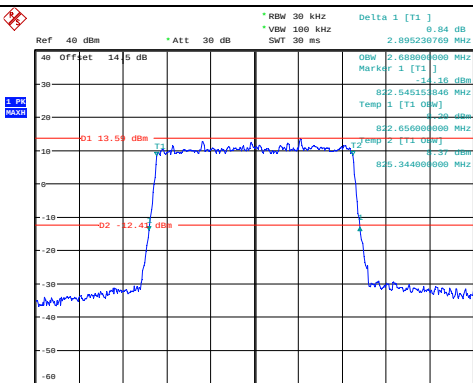
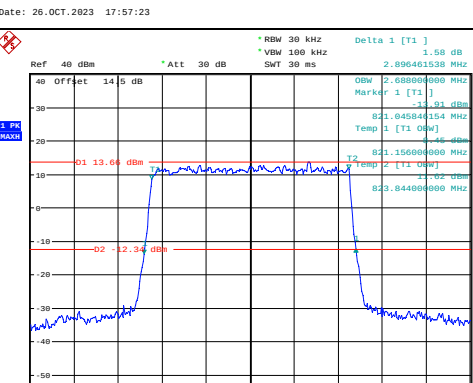
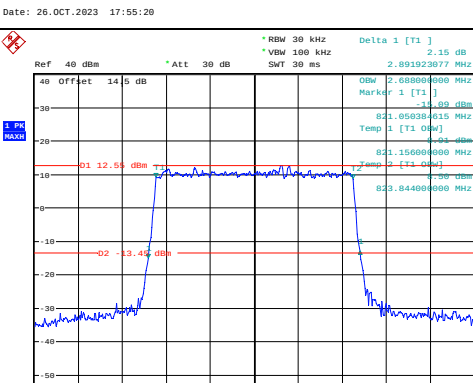
Mode	Lowest	Highest
16QAM 10MHz	 Ref 30 dBm * Att 30 dB * RBW 100 kHz Marker 1 [T1] -20.70 dBm * VBW 300 kHz * SWT 10 ms 824.000000000 MHz 30 Offset 14 5 dB -20 -30 -40 -50 -60 -70 01 -13 dBm SWP 50 OF 50 Center 824 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:03:12	 Ref 30 dBm * Att 25 dB * RBW 100 kHz Marker 1 [T1] -27.91 dBm * VBW 300 kHz * SWT 35 ms 849.000000000 MHz 30 Offset 14 5 dB -20 -30 -40 -50 -60 -70 01 -13 dBm SWP 50 OF 50 Center 849 MHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:42:19
16QAM 15MHz	 Ref 30 dBm * Att 30 dB * RBW 300 kHz Marker 1 [T1] -32.23 dBm * VBW 1 MHz * SWT 2.5 ms 824.000000000 MHz 30 Offset 14 5 dB -20 -30 -40 -50 -60 -70 01 -13 dBm SWP 50 OF 50 Center 824 MHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:04:53	 Ref 30 dBm * Att 25 dB * RBW 300 kHz Marker 1 [T1] -31.26 dBm * VBW 1 MHz * SWT 35 ms 849.000000000 MHz 30 Offset 14 5 dB -20 -30 -40 -50 -60 -70 01 -13 dBm SWP 50 OF 50 Center 849 MHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:43:53

Part 90:

Occupied Bandwidth

Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:40:27	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:40:51
Middle	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:41:26	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:42:57
Highest	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:35:38	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:37:57

Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.00 dB *VBW 100 kHz SMT 30 ms 2.88000000 MHz OSW 2.68800000 MHz Marker 1 [T1] -12.99 dBm 814.06000000 MHz 814.06000000 MHz 814.15000000 MHz 815.84000000 MHz Temp 1 [T1] 0.00 dB Temp 2 [T1] 0.00 dB LVL 30B Center 815.5 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:43:24	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.02 dB *VBW 100 kHz SMT 30 ms 2.88000000 MHz OSW 2.68800000 MHz Marker 1 [T1] -13.34 dBm 814.06000000 MHz 814.06000000 MHz 814.15000000 MHz 815.84000000 MHz Temp 1 [T1] 0.02 dB Temp 2 [T1] 0.00 dB LVL 30B Center 815.5 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:43:45
Middle	 Ref 40 dBm *Att 30 dB *RBW 30 kHz Delta 1 [T1] 1.79 dB *VBW 100 kHz SMT 30 ms 2.891023077 MHz OSW 2.68800000 MHz Marker 1 [T1] -13.55 dBm 822.54000000 MHz 822.54000000 MHz 822.65000000 MHz 825.34000000 MHz Temp 1 [T1] 0.00 dB Temp 2 [T1] 0.00 dB LVL 30B Center 824 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:57:23	 Ref 40 dBm *Att 30 dB *RBW 30 kHz Delta 1 [T1] 0.84 dB *VBW 100 kHz SMT 30 ms 2.891023077 MHz OSW 2.68800000 MHz Marker 1 [T1] -13.55 dBm 822.54000000 MHz 822.54000000 MHz 822.65000000 MHz 825.34000000 MHz Temp 1 [T1] 0.00 dB Temp 2 [T1] 0.00 dB LVL 30B Center 824 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:55:20
Highest	 Ref 40 dBm *Att 30 dB *RBW 30 kHz Delta 1 [T1] 1.58 dB *VBW 100 kHz SMT 30 ms 2.890461538 MHz OSW 2.68800000 MHz Marker 1 [T1] -13.66 dBm 821.04500000 MHz 821.04500000 MHz 821.15000000 MHz 823.84000000 MHz Temp 1 [T1] 0.00 dB Temp 2 [T1] 0.00 dB LVL 30B Center 822.5 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:51:13	 Ref 40 dBm *Att 30 dB *RBW 30 kHz Delta 1 [T1] 2.15 dB *VBW 100 kHz SMT 30 ms 2.891023077 MHz OSW 2.68800000 MHz Marker 1 [T1] -12.55 dBm 821.05000000 MHz 821.05000000 MHz 821.15000000 MHz 823.84000000 MHz Temp 1 [T1] 0.00 dB Temp 2 [T1] 0.00 dB LVL 30B Center 822.5 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 17:53:07

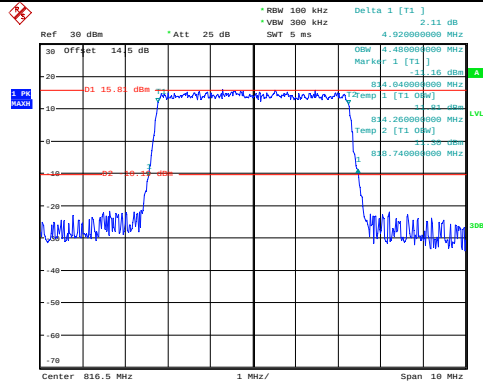
Occupied Bandwidth

Channel

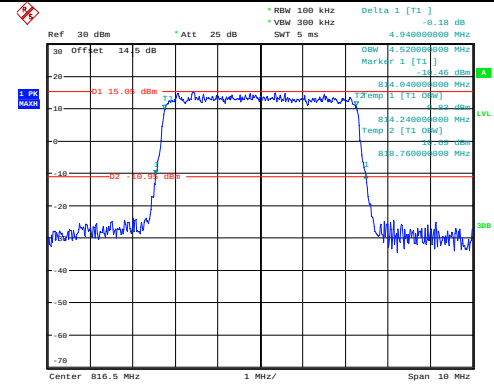
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

Lowest

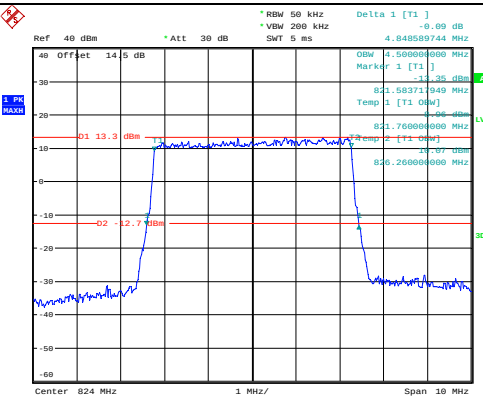


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:46:20

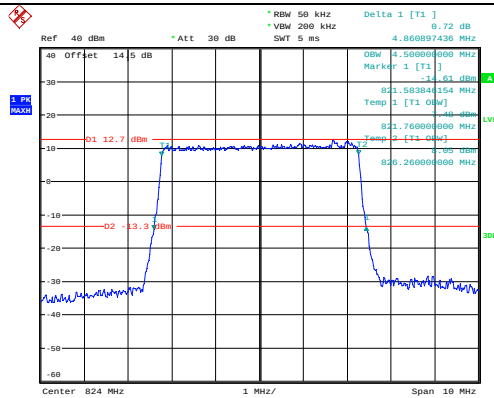


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:46:44

Middle

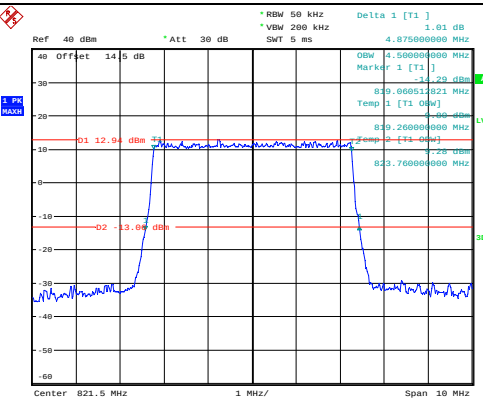


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 25.OCT.2023 18:59:02

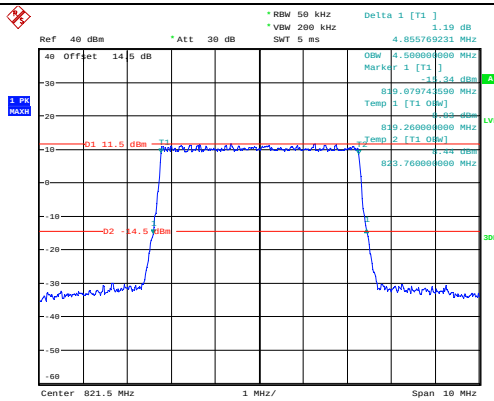


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 25.OCT.2023 19:01:07

Highest

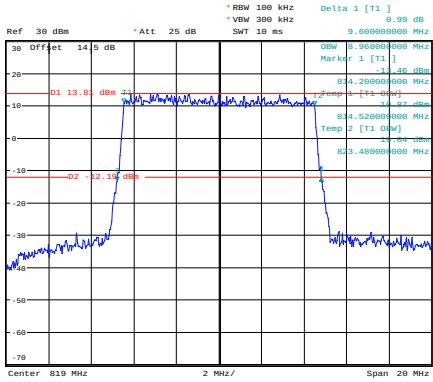
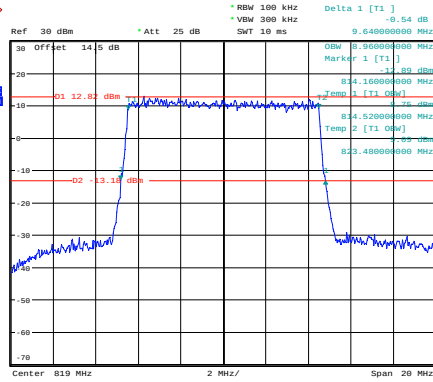
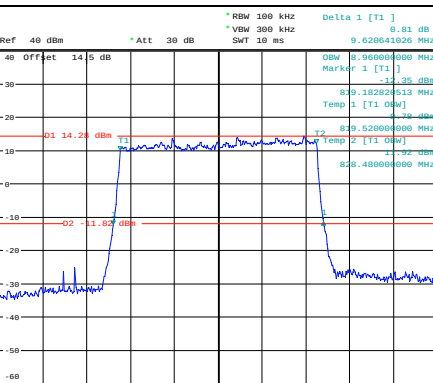
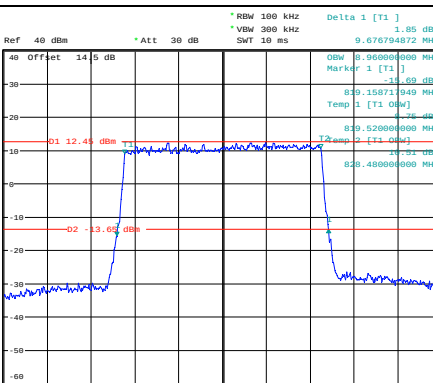


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 18:58:35



ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 18:53:12

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm * Offset 14.5 dB * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 10 ms Delta 1 [T1] 0.99 dB 9.60000000 MHz Marker 1 [T1] -13.82 dBm 819.20000000 MHz Temp 1 [T1 0dB] -13.82 dBm 819.20000000 MHz Temp 2 [T1 0dB] -13.82 dBm 819.20000000 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:49:18	 Ref 30 dBm * Offset 14.5 dB * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 10 ms Delta 1 [T1] -0.54 dB 9.64000000 MHz Marker 1 [T1] -12.82 dBm 819.16000000 MHz Temp 1 [T1 0dB] -12.82 dBm 819.16000000 MHz Temp 2 [T1 0dB] -12.82 dBm 819.16000000 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:49:39
Middle	 Ref 40 dBm * Offset 14.5 dB * Att 30 dB * RBW 100 kHz * VBW 300 kHz * SWT 10 ms Delta 1 [T1] 0.81 dB 9.620641626 MHz Marker 1 [T1] -14.26 dBm 824.182824513 MHz Temp 1 [T1 0dB] -14.26 dBm 824.182824513 MHz Temp 2 [T1 0dB] -14.26 dBm 824.182824513 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:11:24	 Ref 40 dBm * Offset 14.5 dB * Att 30 dB * RBW 100 kHz * VBW 300 kHz * SWT 10 ms Delta 1 [T1] 1.85 dB 9.676794872 MHz Marker 1 [T1] -12.45 dBm 824.15871340 MHz Temp 1 [T1 0dB] -12.45 dBm 824.15871340 MHz Temp 2 [T1 0dB] -12.45 dBm 824.15871340 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:13:27

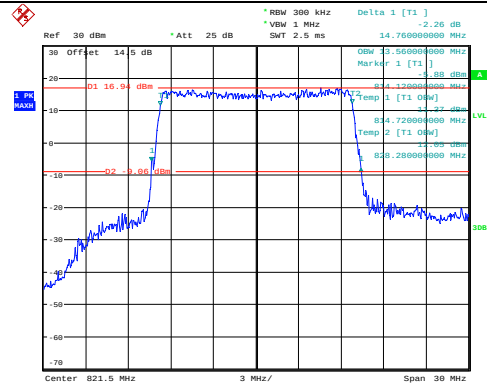
Occupied Bandwidth

Channel

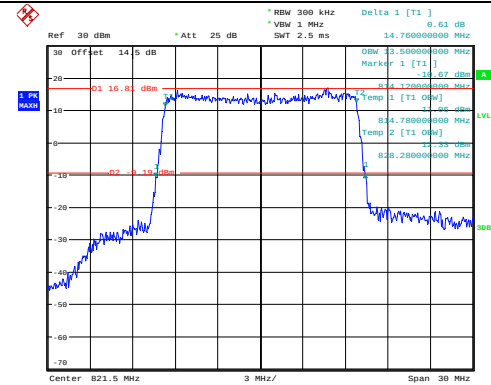
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

Lowest

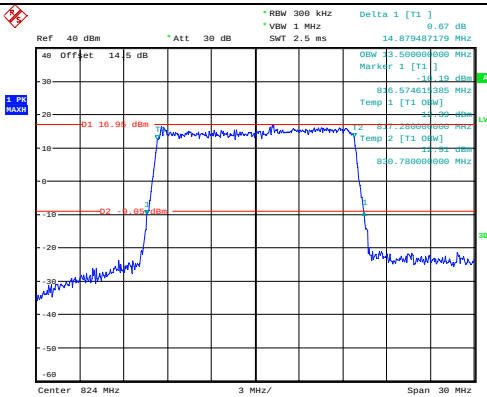


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:52:28

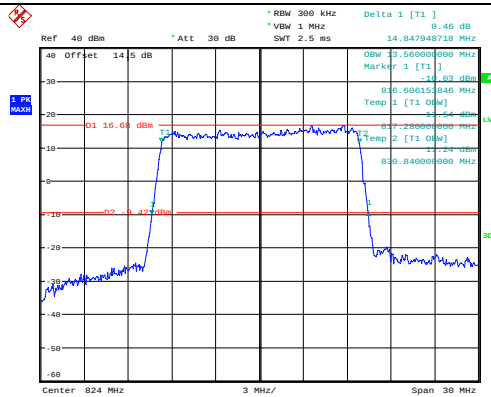


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 16:52:48

Middle



ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 19:24:17



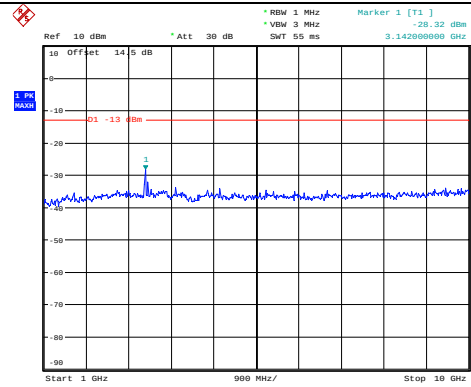
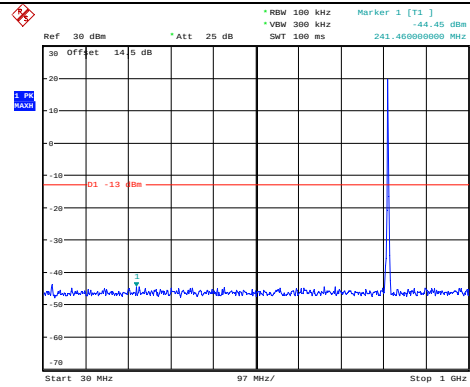
ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 19:26:33

Spurious Emissions at Antenna Terminal

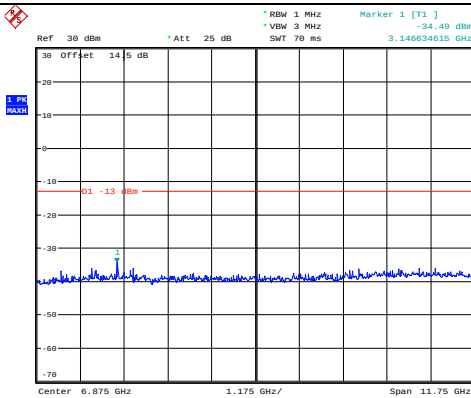
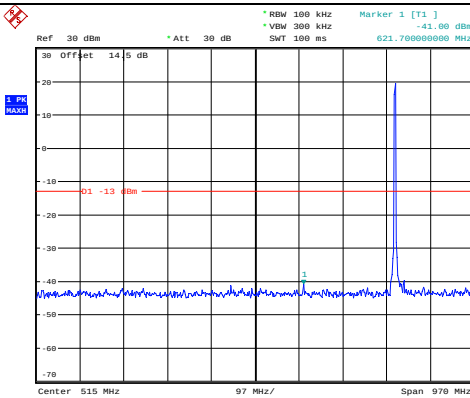
Channel

1.4MHz Bandwidth QPSK

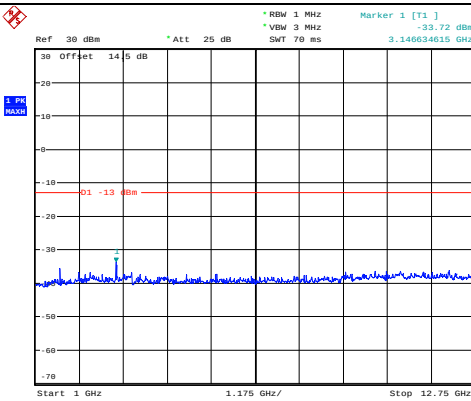
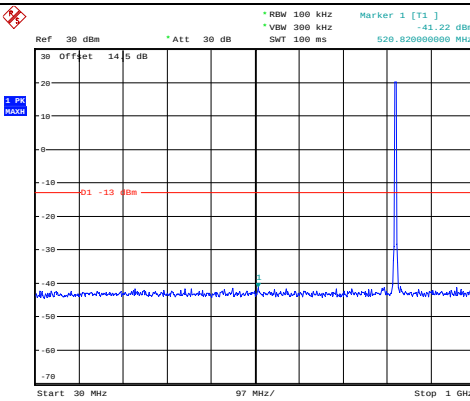
Lowest



Middle



Highest

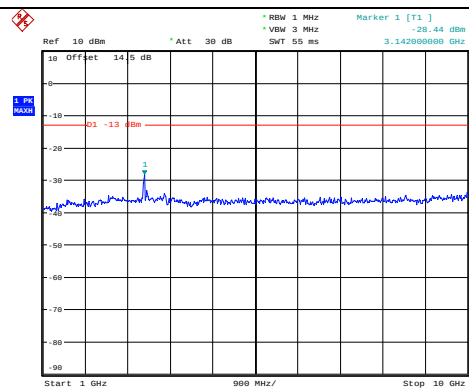
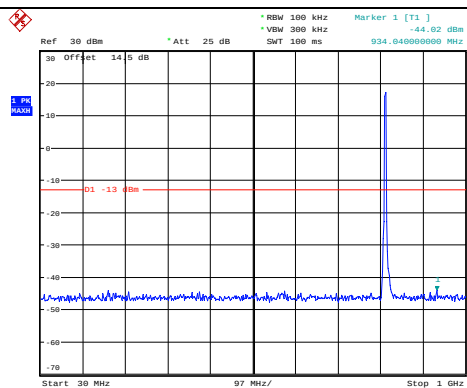


Spurious Emissions at Antenna Terminal

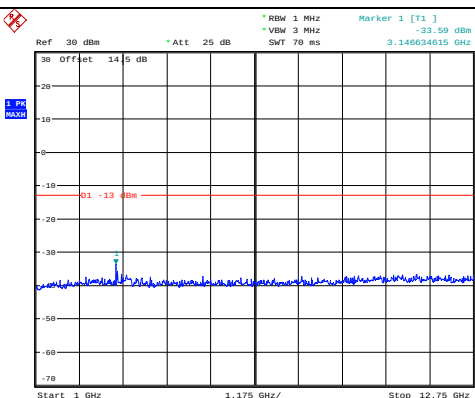
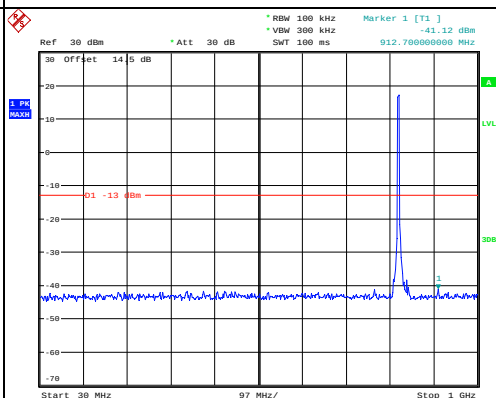
Channel

3MHz Bandwidth QPSK

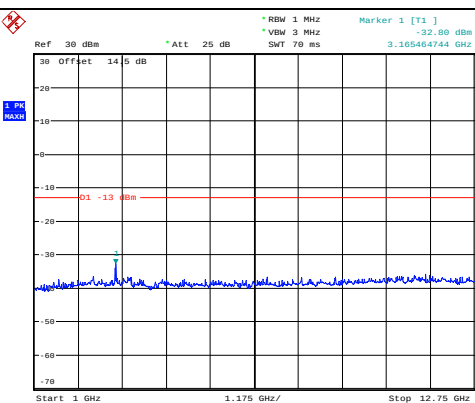
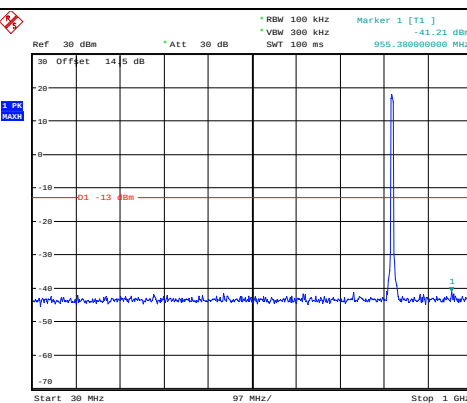
Lowest



Middle



Highest

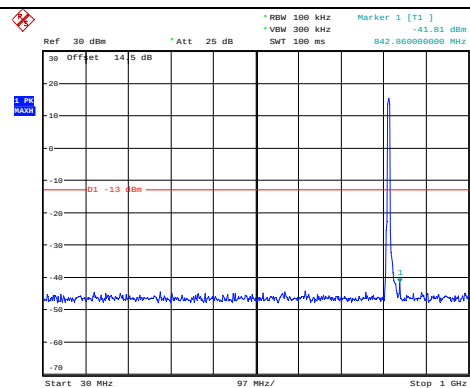


Spurious Emissions at Antenna Terminal

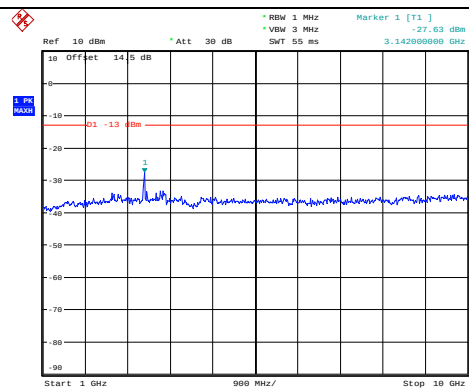
Channel

5MHz Bandwidth QPSK

Lowest

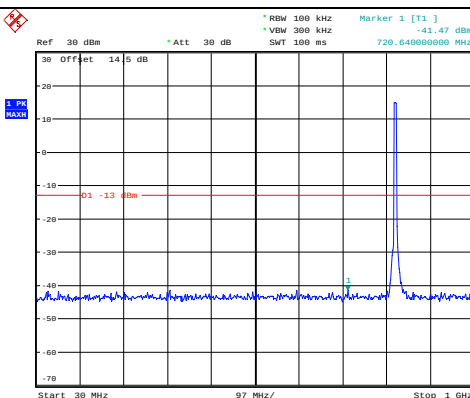


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:01:20

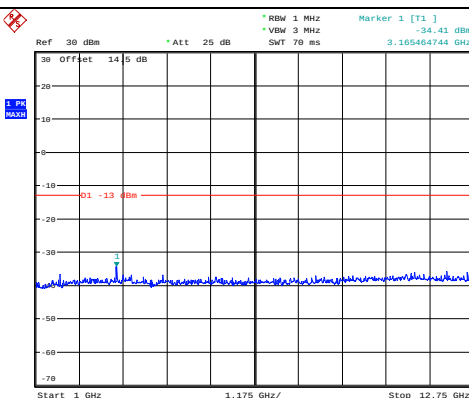


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:01:31

Middle

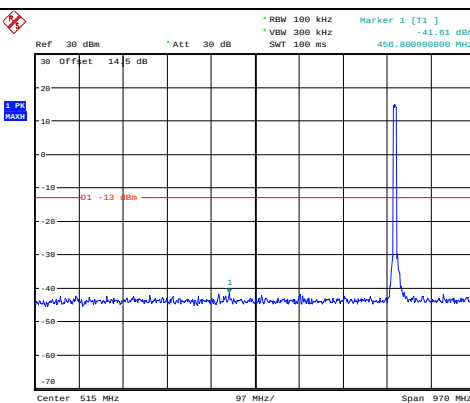


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 20:20:12

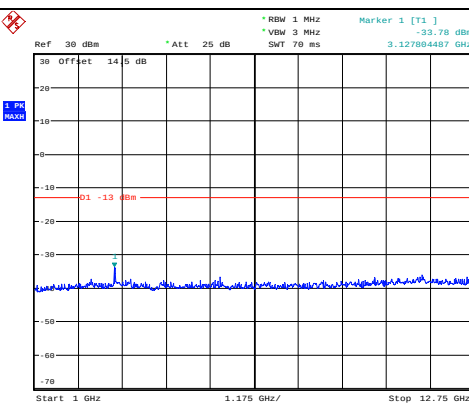


ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 20:20:35

Highest



ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 20:18:53



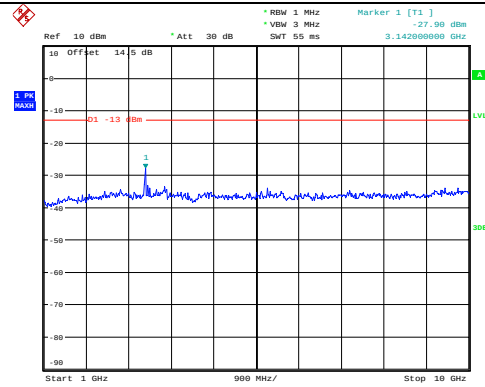
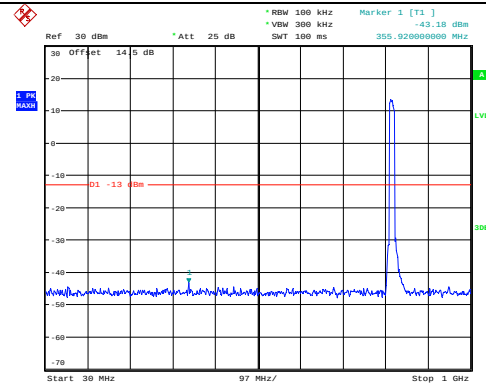
ProjectNo.:CR230953899-RF Tester:Arthur Su
Date: 26.OCT.2023 20:19:19

Spurious Emissions at Antenna Terminal

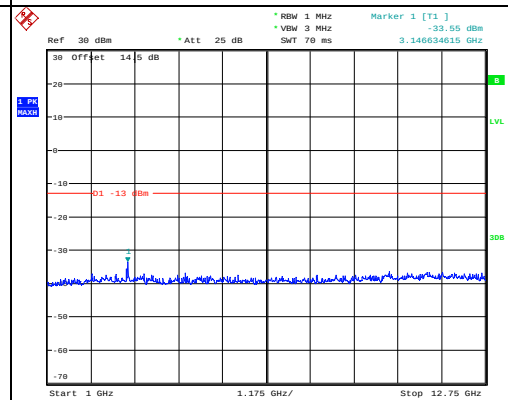
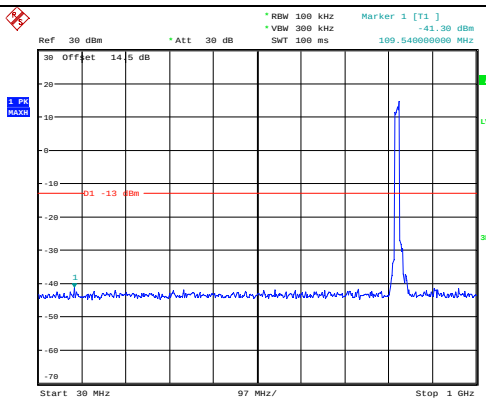
Channel

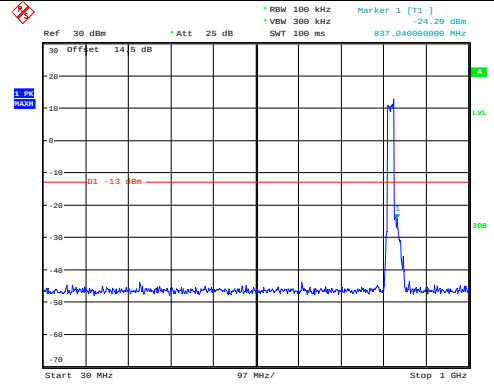
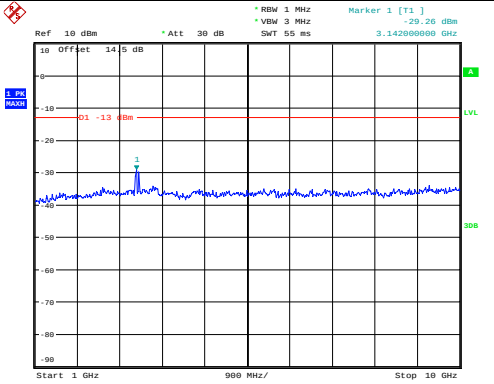
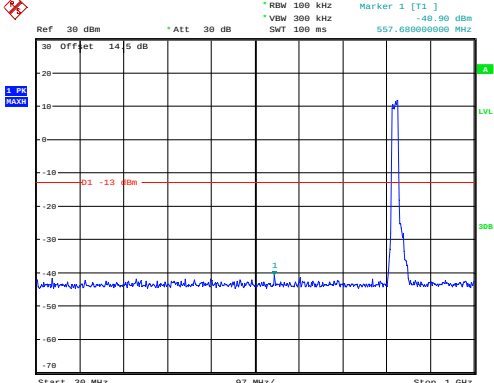
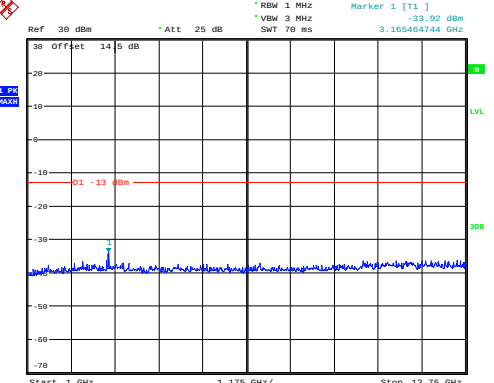
10MHz Bandwidth QPSK

Lowest

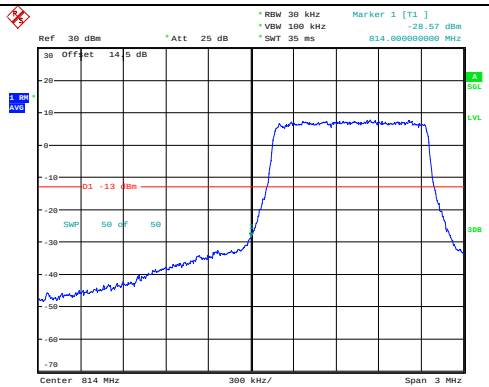
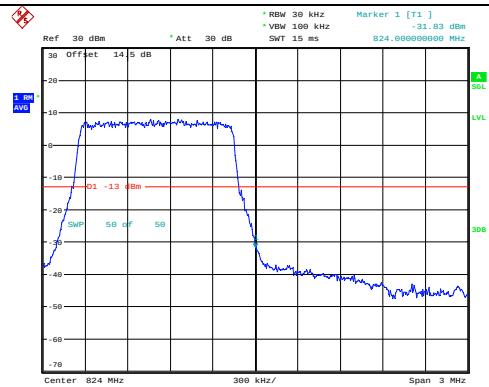
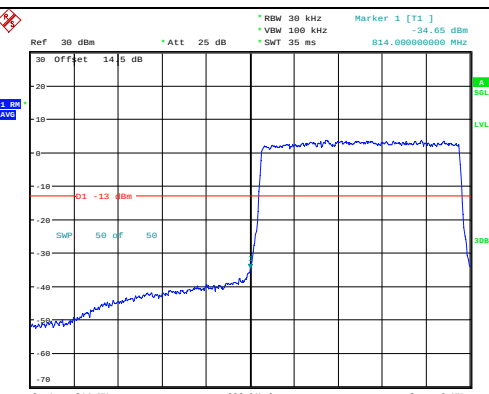
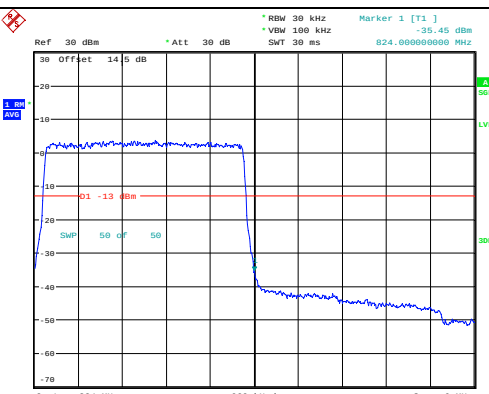
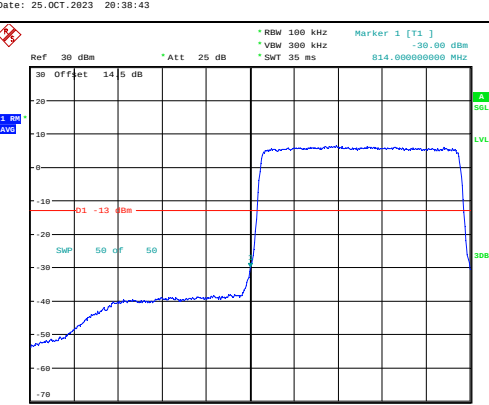
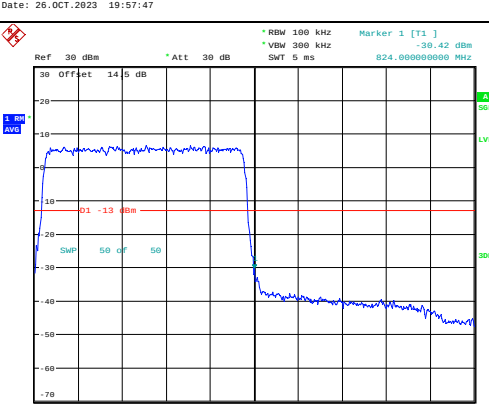


Middle



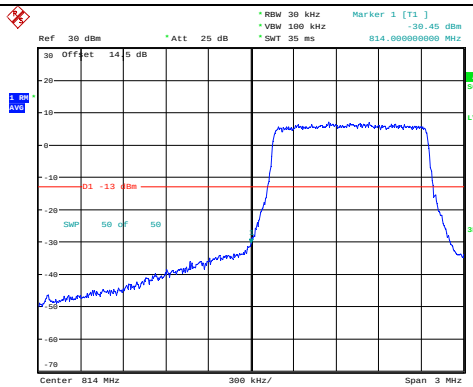
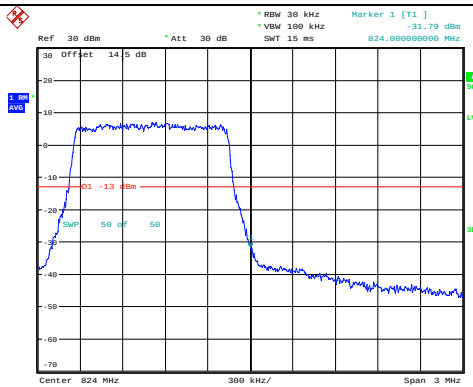
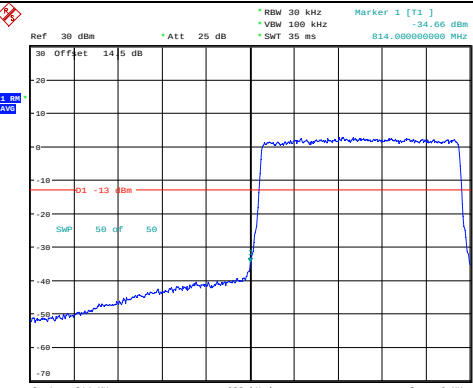
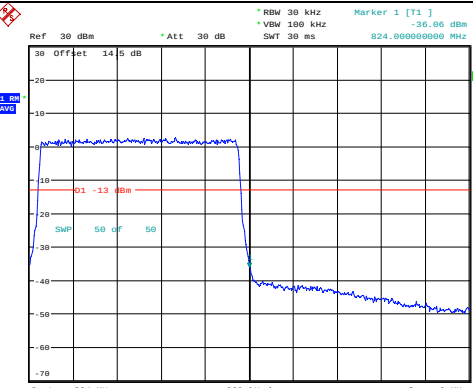
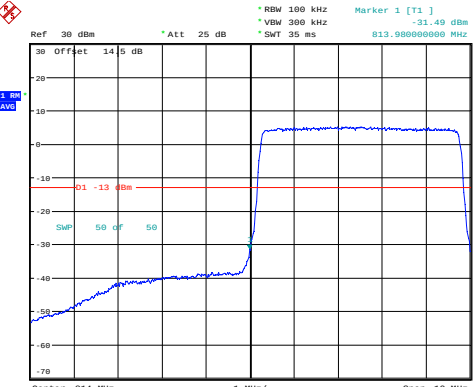
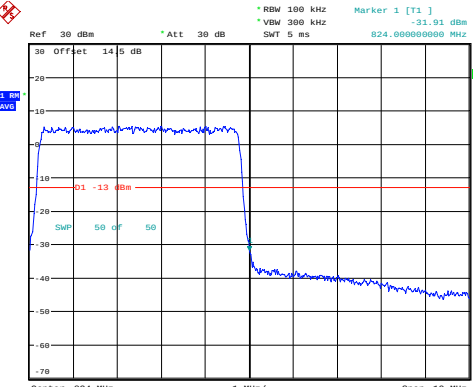
Channel	15MHz Bandwidth QPSK	
Lowest	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 22:05:27	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 22:05:38
	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:25:45	 ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:26:10

Out of band emission, Band Edge

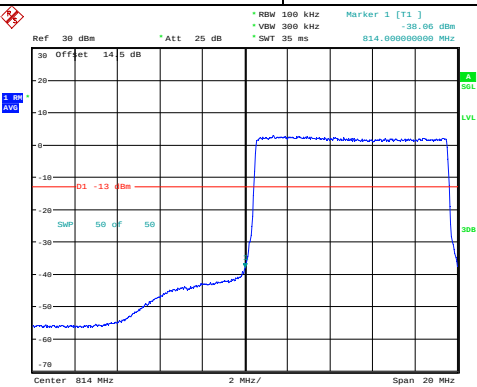
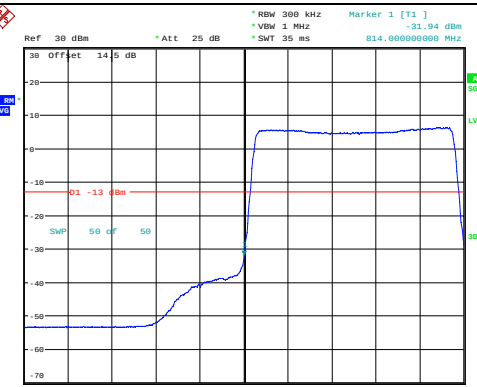
Mode	Lowest	Highest
QPSK 1.4MHz	 Ref 30 dBm * Att 25 dB * RBW 30 kHz * VBW 100 kHz * SWT 35 ms * Marker 1 [T1] -28.57 dBm 814.000000000 MHz Center 814 MHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:37:25	 Ref 30 dBm * Att 30 dB * RBW 30 kHz * VBW 100 kHz * SWT 15 ms * Marker 1 [T1] -31.83 dBm 824.000000000 MHz Center 824 MHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester: Arthur Su Date: 26.OCT.2023 19:54:46
QPSK 3MHz	 Ref 30 dBm * Att 25 dB * RBW 30 kHz * VBW 100 kHz * SWT 35 ms * Marker 1 [T1] -34.65 dBm 814.000000000 MHz Center 814 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:38:43	 Ref 30 dBm * Att 30 dB * RBW 30 kHz * VBW 100 kHz * SWT 35 ms * Marker 1 [T1] -35.45 dBm 824.000000000 MHz Center 824 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester: Arthur Su Date: 26.OCT.2023 19:57:47
QPSK 5MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -38.88 dBm 814.000000000 MHz Center 814 MHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:48:12	 Ref 30 dBm * Att 30 dB * RBW 100 kHz * VBW 300 kHz * SWT 5 ms * Marker 1 [T1] -39.42 dBm 824.000000000 MHz Center 824 MHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester: Arthur Su Date: 26.OCT.2023 20:00:34

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Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 Ref 30 dBm * Att 25 dB * RBW 30 kHz Marker 1 [T1] * VBW 100 kHz -20.45 dBm * SWT 35 ms 814.000000000 MHz Center 814 MHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:37:35	 Ref 30 dBm * Att 30 dB * RBW 30 kHz Marker 1 [T1] * VBW 100 kHz -21.79 dBm * SWT 15 ms 824.000000000 MHz Center 824 MHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:55:26
16QAM 3MHz	 Ref 30 dBm * Att 25 dB * RBW 30 kHz Marker 1 [T1] * VBW 100 kHz -34.66 dBm * SWT 35 ms 814.000000000 MHz Center 814 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:37:35	 Ref 30 dBm * Att 30 dB * RBW 30 kHz Marker 1 [T1] * VBW 100 kHz -36.06 dBm * SWT 30 ms 824.000000000 MHz Center 824 MHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 19:58:12
16QAM 5MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz Marker 1 [T1] * VBW 300 kHz -31.49 dBm * SWT 35 ms 813.990000000 MHz Center 814 MHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:48:22	 Ref 30 dBm * Att 30 dB * RBW 100 kHz Marker 1 [T1] * VBW 300 kHz -31.91 dBm * SWT 5 ms 824.000000000 MHz Center 824 MHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 26.OCT.2023 20:00:58

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	 Ref: 30 dBm, Offset: 14.5 dB, Att: 25 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 35 ms, Marker 1 [T1]: -30.00 dBm, 814.000000000 MHz Center: 814 MHz, Span: 20 MHz ProjectNo.: CR230953899-RF, Tester: Claire Liu, Date: 25.OCT.2023 20:41:54	
16QAM 15MHz	 Ref: 30 dBm, Offset: 14.5 dB, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SWT: 35 ms, Marker 1 [T1]: -31.94 dBm, 814.000000000 MHz Center: 814 MHz, Span: 30 MHz ProjectNo.: CR230953899-RF, Tester: Claire Liu, Date: 25.OCT.2023 20:43:34	

4.14 Antenna Port Test Data and Results for LTE Band 38

Serial Number:	2B7S-2	Test Date:	2023/10/17~2023/10/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	52~60	ATM Pressure: (kPa)	100.9~101.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2572.5	2595	2617.5
10MHz	2575	2595	2615
15MHz	2577.5	2595	2612.5
20MHz	2580	2595	2610

Test Data:**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	19.88	19.86	20.06	20.45	33
	RB1#13	19.99	20.01	20.19		
	RB1#24	19.88	19.91	20.07		
	RB15#0	18.86	18.87	19.08		
	RB15#10	18.89	18.96	19.12		
	RB25#0	18.87	18.92	19.11		
5MHz 16QAM	RB1#0	19.15	18.84	19.12	19.5	33
	RB1#13	19.22	19.01	19.24		
	RB1#24	19.08	18.91	19.12		
	RB15#0	17.92	17.81	18.11		
	RB15#10	17.92	17.9	18.12		
	RB25#0	17.88	17.92	18.16		
10MHz QPSK	RB1#0	20.04	19.98	20.06	20.74	33
	RB1#25	20.27	20.48	20.39		
	RB1#49	19.97	20.02	20.18		
	RB25#0	19.08	18.92	19.04		
	RB25#25	19.15	19.07	19.16		
	RB50#0	19.25	19.06	19.08		
10MHz 16QAM	RB1#0	19.06	19.06	19.29	19.86	33
	RB1#25	19.41	19.38	19.6		
	RB1#49	18.95	19.12	19.38		
	RB25#0	18.43	17.93	18.04		
	RB25#25	18.46	18.35	18.16		
	RB50#0	18.4	18.29	18.13		
15MHz QPSK	RB1#0	18.66	19.56	19.69	20.11	33
	RB1#38	19.51	19.75	19.85		
	RB1#74	19.51	19.66	19.74		
	RB36#0	18.55	18.62	18.82		
	RB36#39	18.56	18.69	18.88		
	RB75#0	18.55	18.67	18.8		
15MHz 16QAM	RB1#0	18.4	18.74	18.87	19.26	33
	RB1#38	18.55	18.94	19		
	RB1#74	18.45	18.85	18.95		
	RB36#0	17.46	17.64	17.77		
	RB36#39	17.47	17.73	17.81		
	RB75#0	17.53	17.65	17.75		
20MHz QPSK	RB1#0	18.42	19.2	19.2	20.02	33
	RB1#50	19.55	19.76	19.71		
	RB1#99	19.15	19.36	19.25		

20MHz 16QAM	RB50#0	18.28	18.37	18.42	19.23	33
	RB50#50	18.34	18.45	18.51		
	RB100#0	18.34	18.39	18.46		
	RB1#0	18.03	18.39	18.27		
	RB1#50	18.57	18.97	18.78		
	RB1#99	18.1	18.53	18.34		
	RB50#0	17.35	17.35	17.38		
	RB50#50	17.38	17.42	17.49		
	RB100#0	17.32	17.38	17.44		

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	7.65	7.36	7.49	13
	RB100#0	7.31	7.44	7.54	13
20MHz 16QAM	RB1#0	7.13	7.36	7.58	13
	RB100#0	7.14	7.32	7.35	13
Result:					Pass

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	4.5	4.5	4.52	4.88	4.9	4.86
5MHz 16QAM	4.5	4.5	4.5	4.88	4.9	5.06
10MHz QPSK	8.96	9	8.96	9.68	9.68	9.6
10MHz 16QAM	8.96	8.96	8.96	9.68	9.4	9.52
15MHz QPSK	13.5	13.5	13.5	14.76	14.58	15.18
15MHz 16QAM	13.5	13.56	13.5	15.84	15.48	14.88
20MHz QPSK	18	17.92	18	19.6	19.28	19.68
20MHz 16QAM	18	18	18	19.44	19.12	19.68

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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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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Frequency Stability

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge
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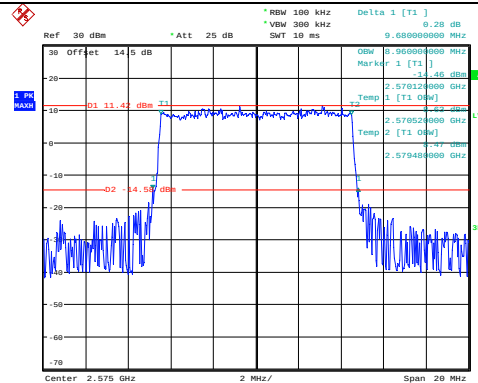
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2571.029	2570.00	2619.046	2620
	-20	3.85	2571.015	2570.00	2619.048	2620
	-10	3.85	2571.034	2570.00	2619.068	2620
	0	3.85	2571.018	2570.00	2619.064	2620
	10	3.85	2571.025	2570.00	2619.055	2620
	20	3.85	2571.040	2570.00	2619.040	2620
	30	3.85	2571.022	2570.00	2619.042	2620
	40	3.85	2571.028	2570.00	2619.069	2620
	50	3.85	2571.036	2570.00	2619.045	2620
Frequency Stability vs. Voltage	20	3.4	2571.026	2570.00	2619.047	2620
	20	4.4	2571.037	2570.00	2619.053	2620
					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	3.85	2571.036	2570.00	2619.043	2620
	-20	3.85	2571.014	2570.00	2619.048	2620
	-10	3.85	2571.024	2570.00	2619.054	2620
	0	3.85	2571.014	2570.00	2619.060	2620
	10	3.85	2571.034	2570.00	2619.055	2620
	20	3.85	2571.040	2570.00	2619.040	2620
	30	3.85	2571.020	2570.00	2619.056	2620
	40	3.85	2571.021	2570.00	2619.059	2620
	50	3.85	2571.015	2570.00	2619.067	2620
Frequency Stability vs. Voltage	20	3.4	2571.015	2570.00	2619.047	2620
	20	4.4	2571.026	2570.00	2619.045	2620
					Result:	Pass

Test Plots(Note: The 14.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:54:56	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:55:29
Middle	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:55:59	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:56:23
Highest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:56:56	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 16:57:26

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.25 dB *VBW 300 kHz SWT 10 ms 9.600000000 MHz Marker 1 [T1] -14.5 dB Temp 1 [T1 QW] 2.57020000 GHz Temp 2 [T2 QW] 2.57052000 GHz Temp 3 [T3 QW] 2.57084000 GHz Temp 4 [T4 QW] 2.57116000 GHz Temp 5 [T5 QW] 2.57148000 GHz Temp 6 [T6 QW] 2.57180000 GHz Temp 7 [T7 QW] 2.57212000 GHz Temp 8 [T8 QW] 2.57244000 GHz Temp 9 [T9 QW] 2.57276000 GHz Temp 10 [T10 QW] 2.57308000 GHz Temp 11 [T11 QW] 2.57340000 GHz Temp 12 [T12 QW] 2.57372000 GHz Temp 13 [T13 QW] 2.57404000 GHz Temp 14 [T14 QW] 2.57436000 GHz Temp 15 [T15 QW] 2.57468000 GHz Temp 16 [T16 QW] 2.57500000 GHz Temp 17 [T17 QW] 2.57532000 GHz Temp 18 [T18 QW] 2.57564000 GHz Temp 19 [T19 QW] 2.57596000 GHz Temp 20 [T20 QW] 2.57628000 GHz Temp 21 [T21 QW] 2.57660000 GHz Temp 22 [T22 QW] 2.57692000 GHz Temp 23 [T23 QW] 2.57724000 GHz Temp 24 [T24 QW] 2.57756000 GHz Temp 25 [T25 QW] 2.57788000 GHz Temp 26 [T26 QW] 2.57820000 GHz Temp 27 [T27 QW] 2.57852000 GHz Temp 28 [T28 QW] 2.57884000 GHz Temp 29 [T29 QW] 2.57916000 GHz Temp 30 [T30 QW] 2.57948000 GHz Temp 31 [T31 QW] 2.57980000 GHz Temp 32 [T32 QW] 2.58012000 GHz Temp 33 [T33 QW] 2.58044000 GHz Temp 34 [T34 QW] 2.58076000 GHz Temp 35 [T35 QW] 2.58108000 GHz Temp 36 [T36 QW] 2.58140000 GHz Temp 37 [T37 QW] 2.58172000 GHz Temp 38 [T38 QW] 2.58204000 GHz Temp 39 [T39 QW] 2.58236000 GHz Temp 40 [T40 QW] 2.58268000 GHz Temp 41 [T41 QW] 2.58300000 GHz Temp 42 [T42 QW] 2.58332000 GHz Temp 43 [T43 QW] 2.58364000 GHz Temp 44 [T44 QW] 2.58396000 GHz Temp 45 [T45 QW] 2.58428000 GHz Temp 46 [T46 QW] 2.58460000 GHz Temp 47 [T47 QW] 2.58492000 GHz Temp 48 [T48 QW] 2.58524000 GHz Temp 49 [T49 QW] 2.58556000 GHz Temp 50 [T50 QW] 2.58588000 GHz Temp 51 [T51 QW] 2.58620000 GHz Temp 52 [T52 QW] 2.58652000 GHz Temp 53 [T53 QW] 2.58684000 GHz Temp 54 [T54 QW] 2.58716000 GHz Temp 55 [T55 QW] 2.58748000 GHz Temp 56 [T56 QW] 2.58780000 GHz Temp 57 [T57 QW] 2.58812000 GHz Temp 58 [T58 QW] 2.58844000 GHz Temp 59 [T59 QW] 2.58876000 GHz Temp 60 [T60 QW] 2.58908000 GHz Temp 61 [T61 QW] 2.58940000 GHz Temp 62 [T62 QW] 2.58972000 GHz Temp 63 [T63 QW] 2.59004000 GHz Temp 64 [T64 QW] 2.59036000 GHz Temp 65 [T65 QW] 2.59068000 GHz Temp 66 [T66 QW] 2.59100000 GHz Temp 67 [T67 QW] 2.59132000 GHz Temp 68 [T68 QW] 2.59164000 GHz Temp 69 [T69 QW] 2.59196000 GHz Temp 70 [T70 QW] 2.59228000 GHz Temp 71 [T71 QW] 2.59260000 GHz Temp 72 [T72 QW] 2.59292000 GHz Temp 73 [T73 QW] 2.59324000 GHz Temp 74 [T74 QW] 2.59356000 GHz Temp 75 [T75 QW] 2.59388000 GHz Temp 76 [T76 QW] 2.59420000 GHz Temp 77 [T77 QW] 2.59452000 GHz Temp 78 [T78 QW] 2.59484000 GHz Temp 79 [T79 QW] 2.59516000 GHz Temp 80 [T80 QW] 2.59548000 GHz Temp 81 [T81 QW] 2.59580000 GHz Temp 82 [T82 QW] 2.59612000 GHz Temp 83 [T83 QW] 2.59644000 GHz Temp 84 [T84 QW] 2.59676000 GHz Temp 85 [T85 QW] 2.59708000 GHz Temp 86 [T86 QW] 2.59740000 GHz Temp 87 [T87 QW] 2.59772000 GHz Temp 88 [T88 QW] 2.59804000 GHz Temp 89 [T89 QW] 2.59836000 GHz Temp 90 [T90 QW] 2.59868000 GHz Temp 91 [T91 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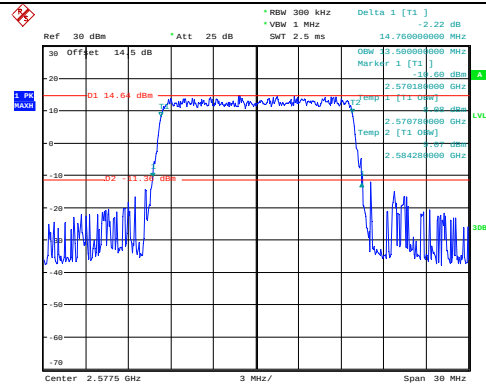
Occupied Bandwidth

Channel

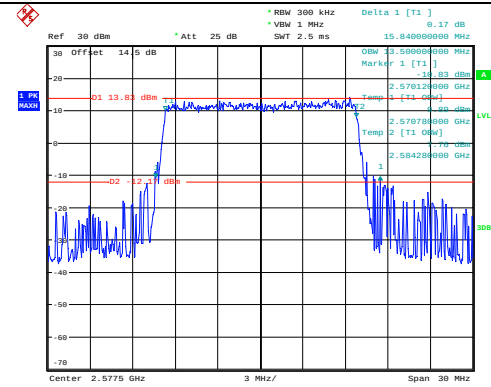
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15MHz Bandwidth 16QAM

Lowest

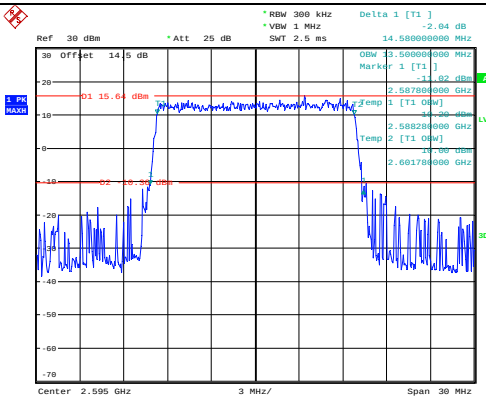


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Date: 25.OCT.2023 17:02:43

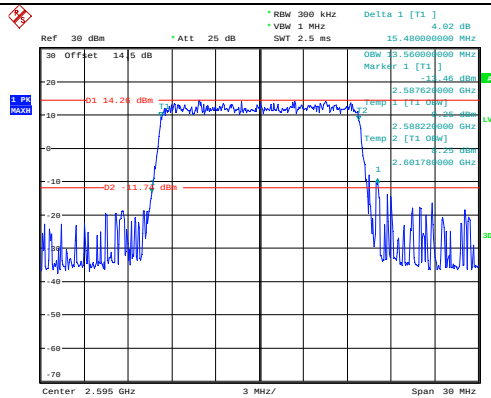


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Date: 25.OCT.2023 17:03:13

Middle

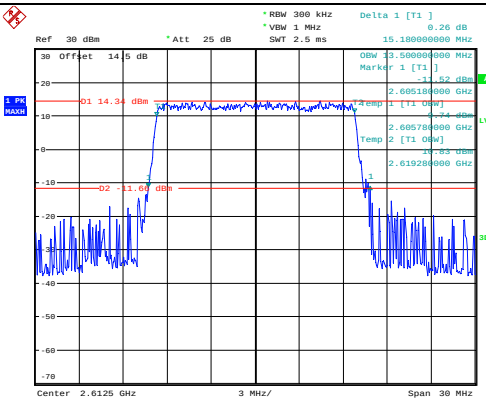


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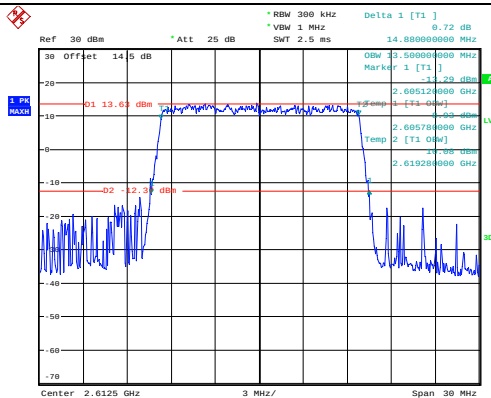


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:04:10

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:04:41



ProjectNo.:CR230953899-RF Tester:Claire Liu
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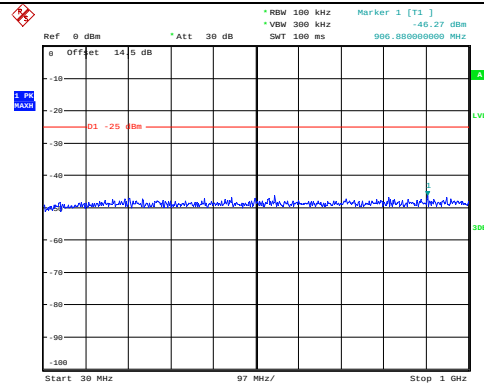
Occupied Bandwidth	
Channel	20MHz Bandwidth QPSK 20MHz Bandwidth 16QAM
Lowest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:06:24
Middle	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:07:23
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Spurious Emissions at Antenna Terminal

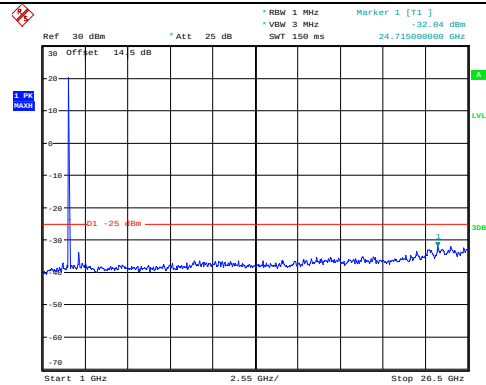
Channel

5MHz Bandwidth QPSK

Lowest

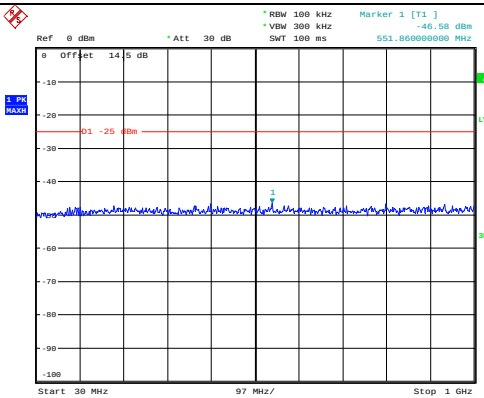


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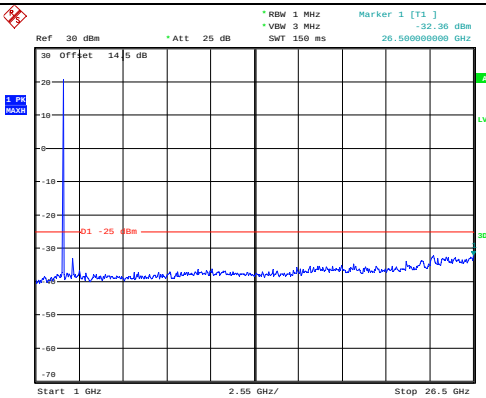


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Date: 25.OCT.2023 22:07:09

Middle

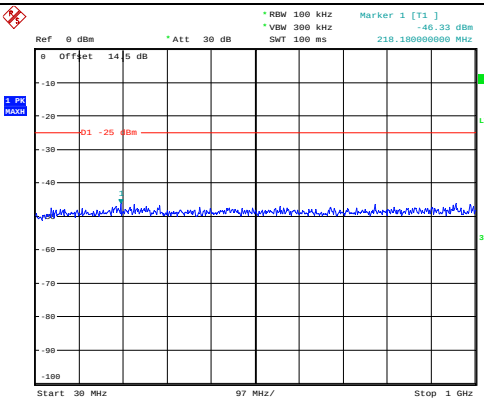


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Date: 25.OCT.2023 22:07:22

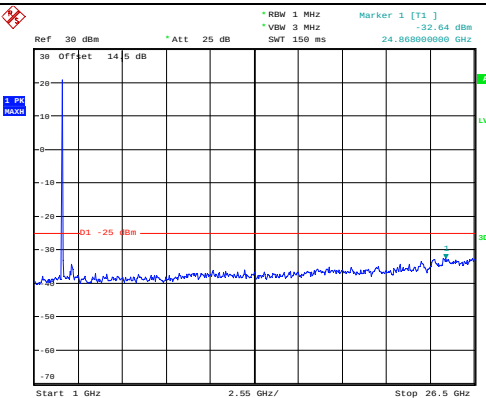


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:07:32

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:07:45



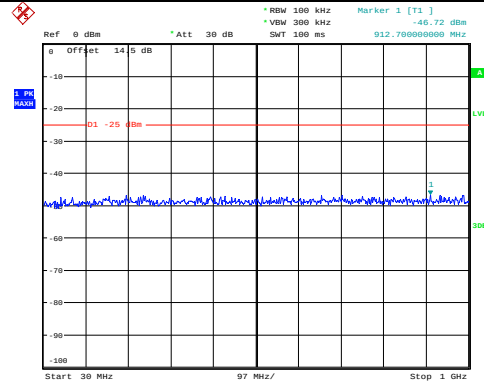
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Date: 25.OCT.2023 22:07:55

Spurious Emissions at Antenna Terminal

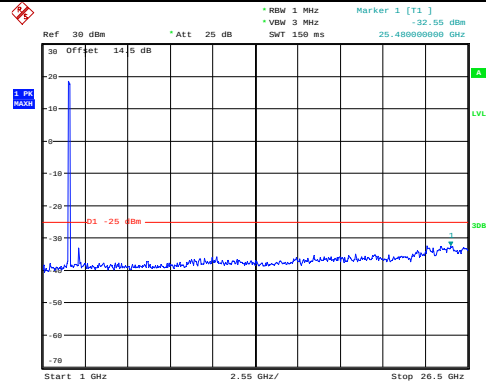
Channel

10MHz Bandwidth QPSK

Lowest

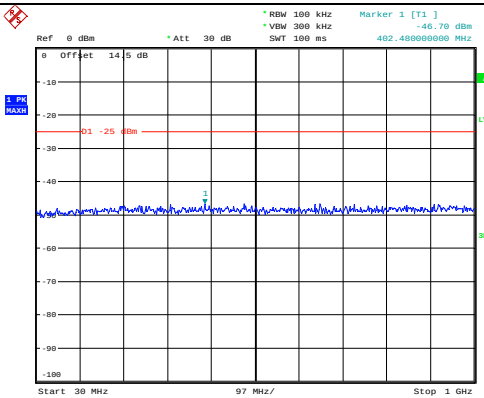


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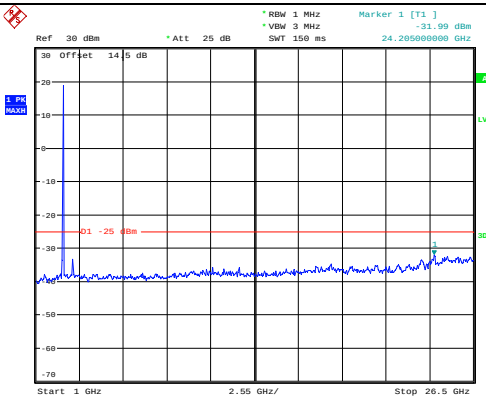


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Date: 25.OCT.2023 22:08:57

Middle

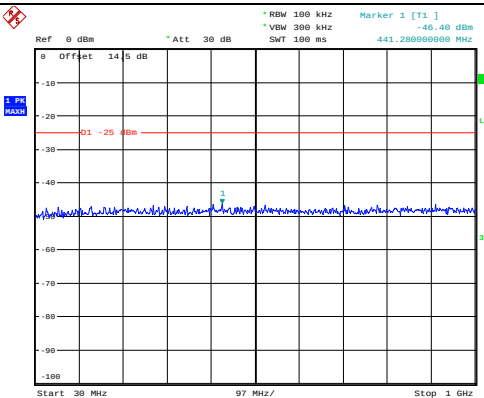


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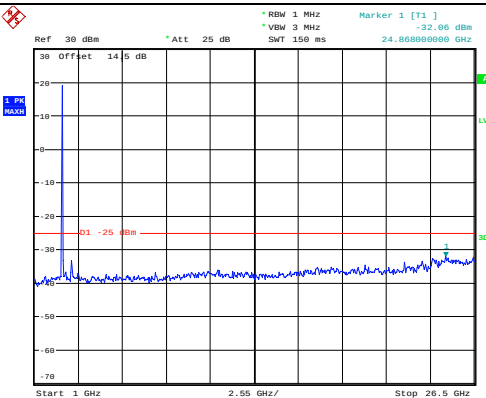


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:09:23

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:09:39



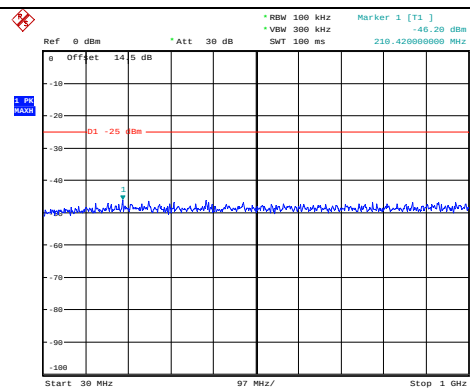
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:09:50

Spurious Emissions at Antenna Terminal

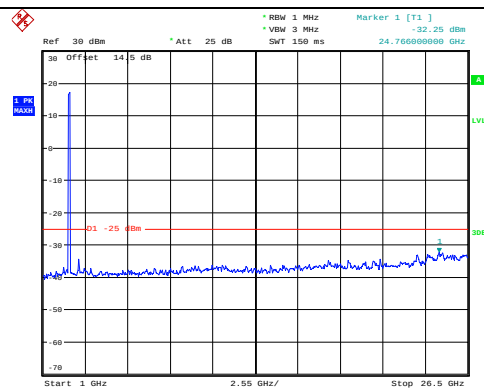
Channel

15MHz Bandwidth QPSK

Lowest

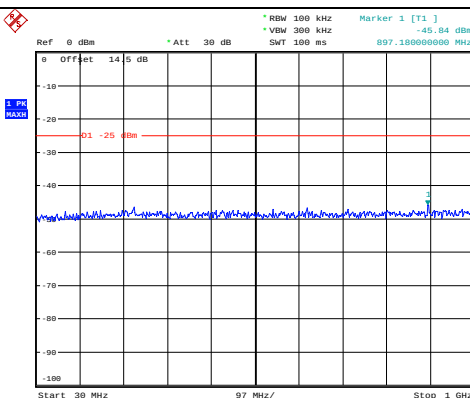


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:10:41

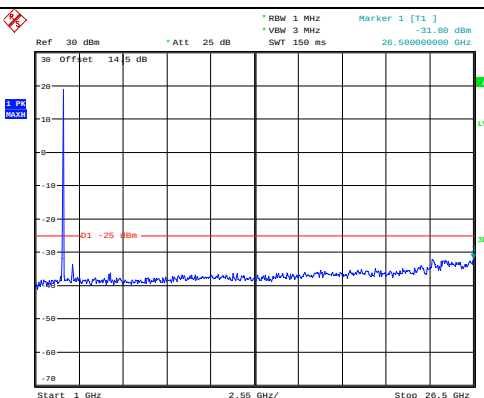


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:10:51

Middle

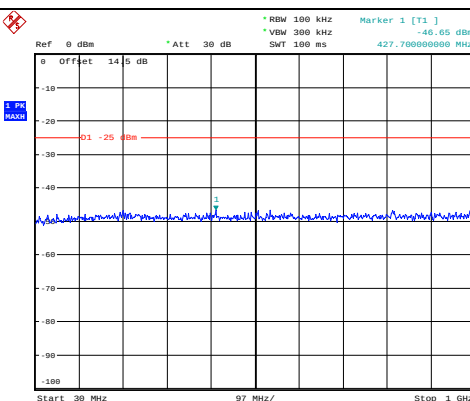


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:11:04

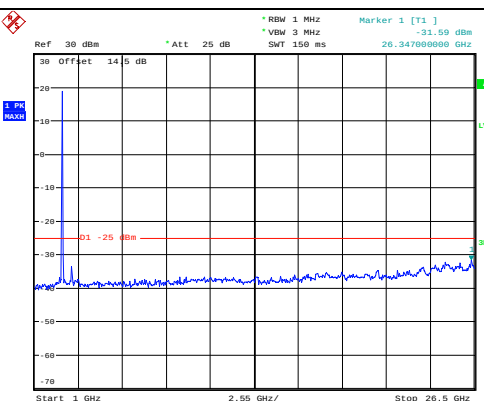


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:11:15

Highest



ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:11:27



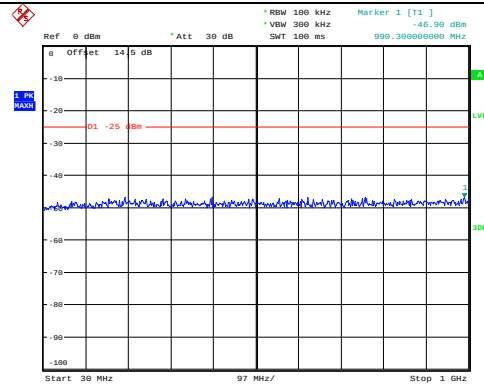
ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:11:38

Spurious Emissions at Antenna Terminal

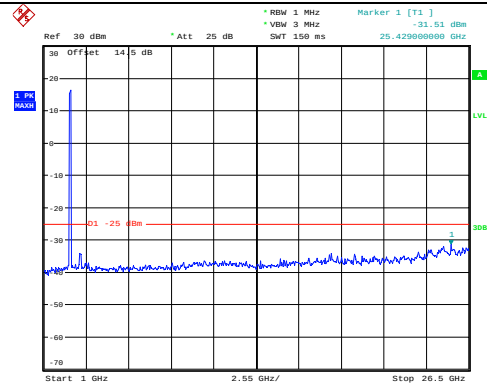
Channel

20MHz Bandwidth QPSK

Lowest

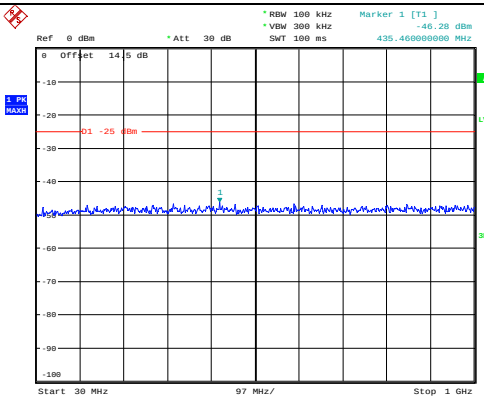


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:12:29

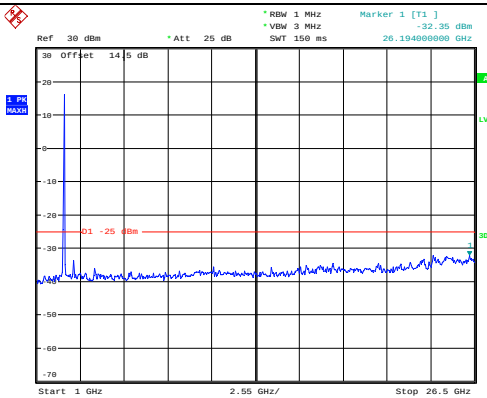


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:12:40

Middle

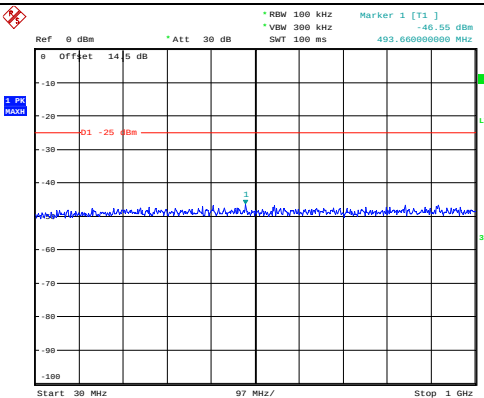


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Date: 25.OCT.2023 22:12:56

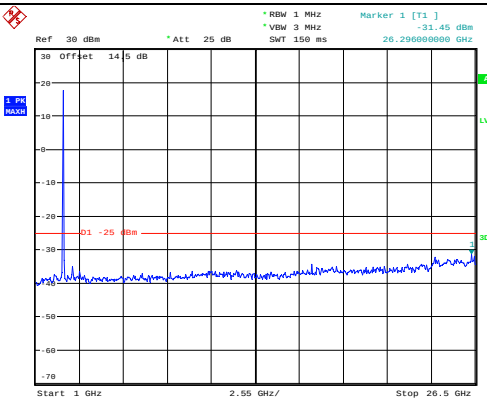


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:13:06

Highest

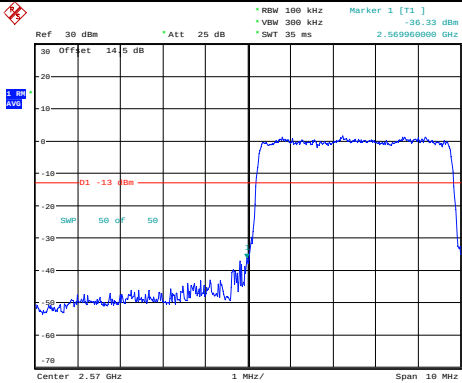
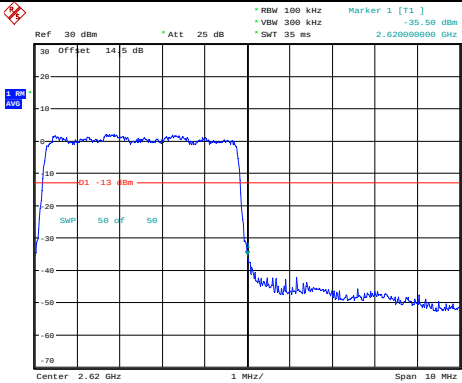
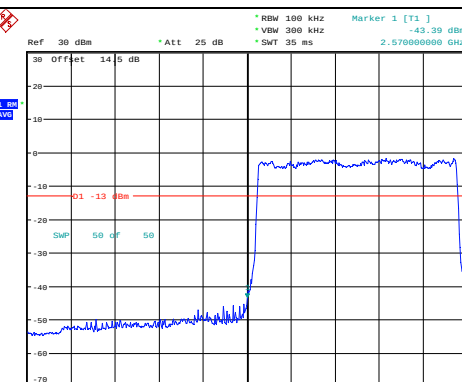
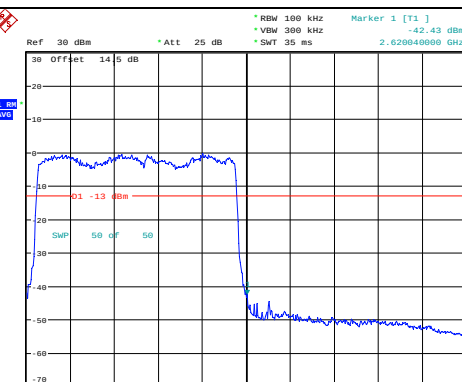
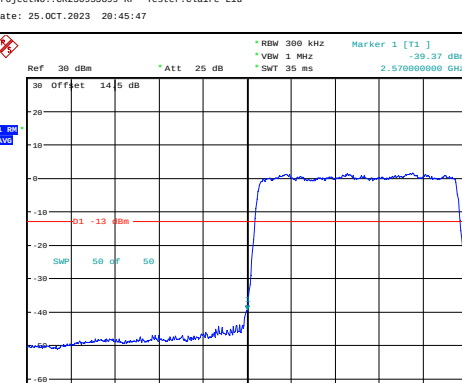
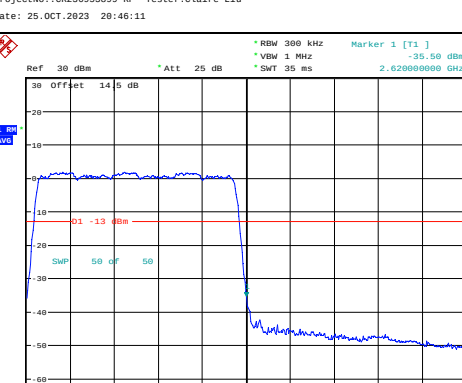


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:13:19

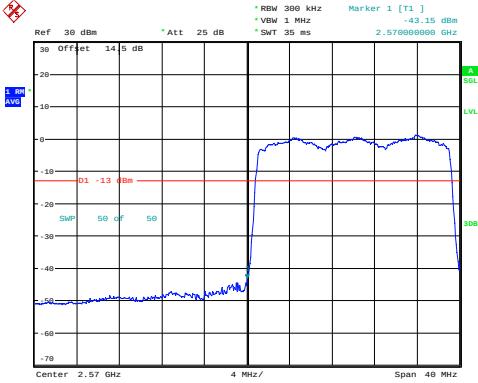
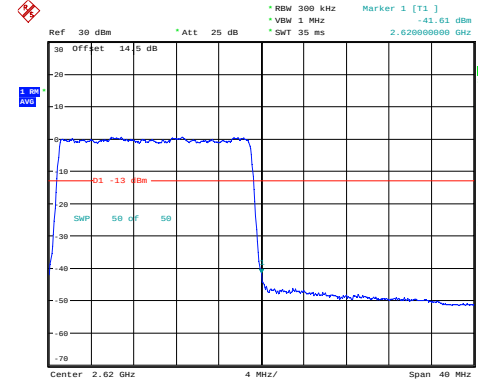


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:13:29

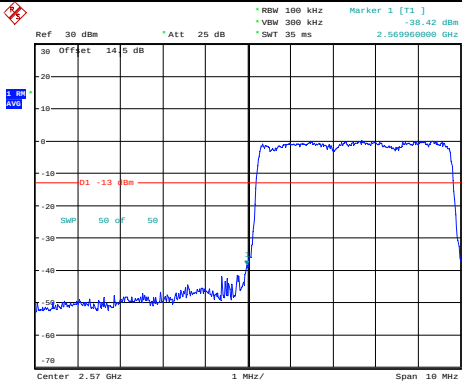
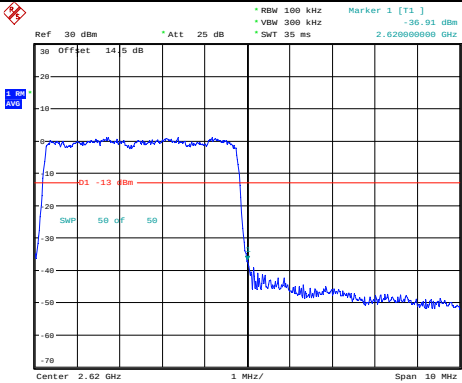
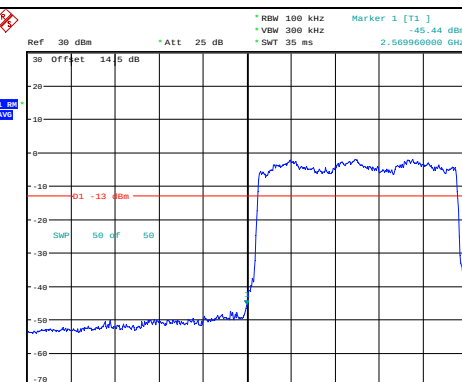
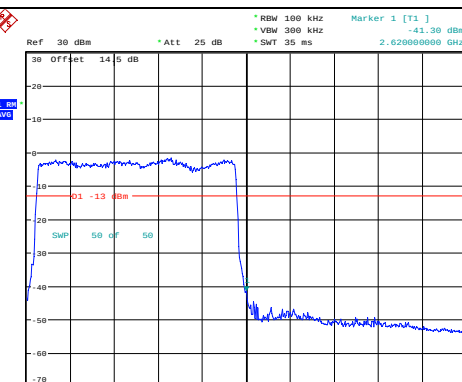
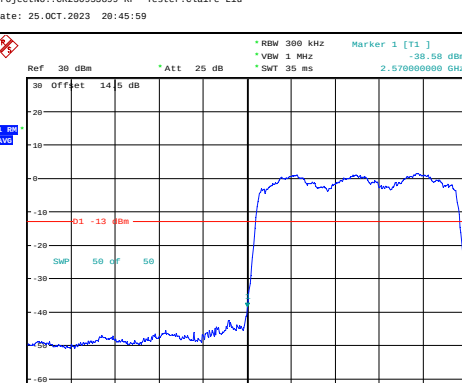
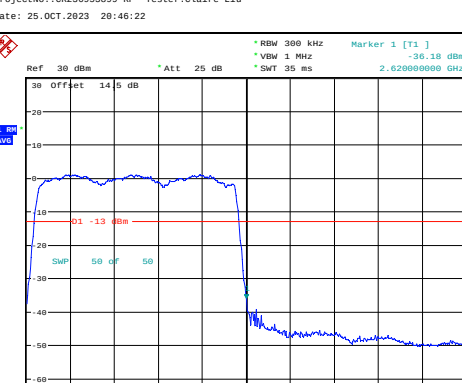
Out of band emission, Band Edge

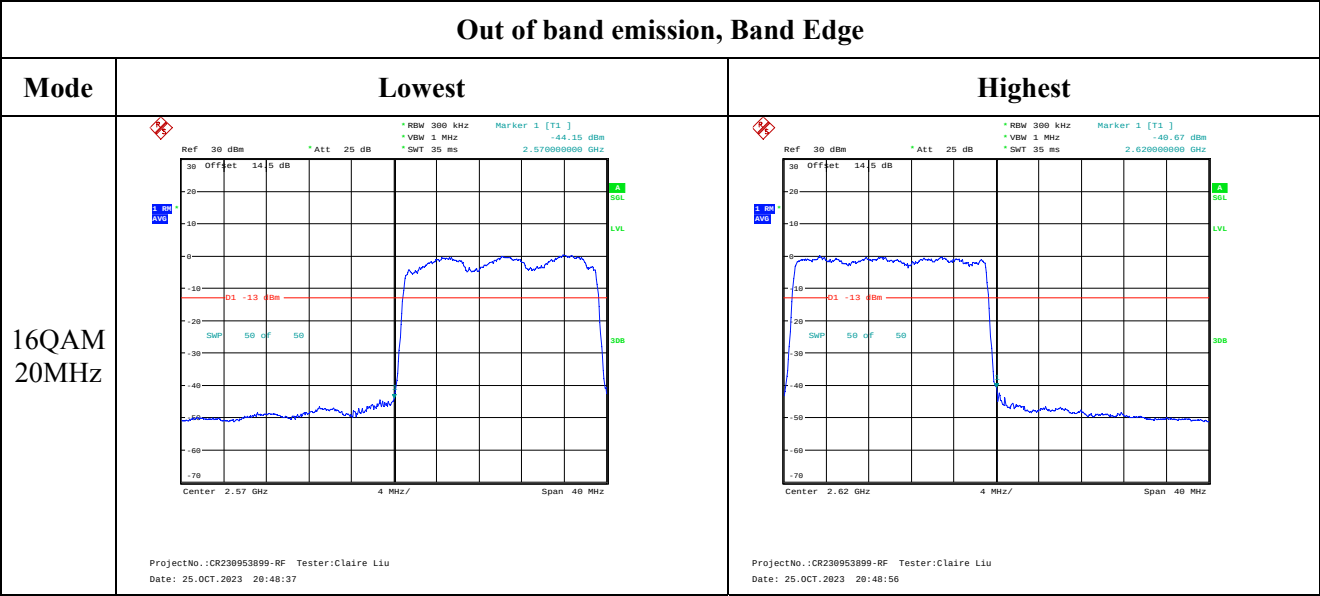
Mode	Lowest	Highest
QPSK 5MHz	 ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:44:24	 ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:44:46
QPSK 10MHz	 ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:45:47	 ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:46:11
QPSK 15MHz	 ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:47:11	 ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:47:38

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 Ref: 30 dBm Att: 25 dB RBW: 300 kHz VBW: 1 MHz SMT: 35 ms Marker 1 [T1] -43.15 dBm 2.570000000 GHz Center: 2.57 GHz Span: 40 MHz Date: 25.OCT.2023 20:48:28	 Ref: 30 dBm Att: 25 dB RBW: 300 kHz VBW: 1 MHz SMT: 35 ms Marker 1 [T1] -41.61 dBm 2.620000000 GHz Center: 2.62 GHz Span: 40 MHz Date: 25.OCT.2023 20:48:47

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -30.42 dBm 2.569950000 GHz Center 2.57 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:44:34	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -30.91 dBm 2.620000000 GHz Center 2.62 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:44:56
16QAM 10MHz	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -45.44 dBm 2.569950000 GHz Center 2.57 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:45:59	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -41.30 dBm 2.620000000 GHz Center 2.62 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:46:22
16QAM 15MHz	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 35 ms Marker 1 [T1] -38.58 dBm 2.570000000 GHz Center 2.57 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:47:20	 Ref 30 dBm *Att 25 dB *RBW 300 kHz *VBW 1 MHz *SWT 35 ms Marker 1 [T1] -36.18 dBm 2.620000000 GHz Center 2.62 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:47:39



4.15 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	2B7S-2	Test Date:	2023/10/17~2023/10/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	52~60	ATM Pressure: (kPa)	100.9~101.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2537.5	2595	2652.5
10MHz	2540	2595	2650
15MHz	2542.5	2595	2647.5
20MHz	2545	2595	2645

Test Data:**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	20.78	20.43	21	21.43	33
	RB1#13	20.83	20.51	21.17		
	RB1#24	20.68	20.42	21.08		
	RB15#0	19.78	19.41	20.12		
	RB15#10	19.77	19.44	20.15		
	RB25#0	19.78	19.43	20.13		
5MHz 16QAM	RB1#0	19.83	19.61	20.03	20.48	33
	RB1#13	19.89	19.73	20.22		
	RB1#24	19.76	19.64	20.13		
	RB15#0	18.8	18.44	19.06		
	RB15#10	18.81	18.45	19.06		
	RB25#0	18.8	18.4	19.15		
10MHz QPSK	RB1#0	20.91	20.53	20.97	21.63	33
	RB1#25	21.07	20.8	21.37		
	RB1#49	20.76	20.53	21.15		
	RB25#0	19.77	19.43	20.15		
	RB25#25	19.84	19.49	20.2		
	RB50#0	19.78	19.47	20.13		
10MHz 16QAM	RB1#0	19.79	19.57	20.24	20.86	33
	RB1#25	20.01	19.88	20.6		
	RB1#49	19.65	19.6	20.39		
	RB25#0	18.81	18.44	19.14		
	RB25#25	18.86	18.55	19.2		
	RB50#0	18.8	18.49	19.16		
15MHz QPSK	RB1#0	20.8	20.37	20.86	21.39	33
	RB1#38	20.79	20.57	21.04		
	RB1#74	20.61	20.43	21.13		
	RB36#0	19.72	19.42	20.07		
	RB36#39	19.76	19.52	20.17		
	RB75#0	19.71	19.44	20.15		
15MHz 16QAM	RB1#0	19.69	19.59	20.09	20.58	33
	RB1#38	19.68	19.77	20.28		
	RB1#74	19.54	19.68	20.32		
	RB36#0	18.66	18.46	19.02		
	RB36#39	18.73	18.54	19.11		
	RB75#0	18.69	18.45	19.06		
20MHz QPSK	RB1#0	20.56	20.32	20.62	21.54	33
	RB1#50	20.93	20.83	21.28		
	RB1#99	20.35	20.38	20.95		
	RB50#0	19.62	19.41	20		

	RB50#50	19.72	19.51	20.1		
	RB100#0	19.69	19.46	20.03		
20MHz 16QAM	RB1#0	19.56	19.5	19.72	20.6	33
	RB1#50	19.92	20.03	20.34		
	RB1#99	19.35	19.59	20.02		
	RB50#0	18.65	18.43	18.97		
	RB50#50	18.81	18.52	19.13		
	RB100#0	18.68	18.47	19.03		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(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	7.44	8.39	7.29	13
	RB100#0	8.14	7.81	7.52	13
20MHz 16QAM	RB1#0	7.08	7.9	7.15	13
	RB100#0	7.17	7.62	7.31	13
				Result:	Pass

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	4.52	4.5	4.5	4.88	4.98	4.94
5MHz 16QAM	4.5	4.5	4.52	4.88	4.98	5.04
10MHz QPSK	8.96	9	8.96	9.56	9.64	9.76
10MHz 16QAM	8.96	8.96	8.96	9.48	9.84	9.48
15MHz QPSK	13.5	13.44	13.5	14.64	14.76	14.52
15MHz 16QAM	13.5	13.5	13.56	15.24	15.42	15.36
20MHz QPSK	17.84	17.92	18.08	19.36	20	19.28
20MHz 16QAM	17.92	17.92	18	20.4	19.44	19.36
Note: The test plots please refer to the Plots of Occupied Bandwidth						

Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.85	2536.112	2535.00	2654.055	2655
	-20	3.85	2536.093	2535.00	2654.055	2655
	-10	3.85	2536.102	2535.00	2654.059	2655
	0	3.85	2536.104	2535.00	2654.066	2655
	10	3.85	2536.092	2535.00	2654.061	2655
	20	3.85	2536.120	2535.00	2654.040	2655
	30	3.85	2536.102	2535.00	2654.041	2655
	40	3.85	2536.112	2535.00	2654.043	2655
	50	3.85	2536.097	2535.00	2654.047	2655
Frequency Stability vs. Voltage	20	3.4	2536.106	2535.00	2654.041	2655
	20	4.4	2536.108	2535.00	2654.053	2655
					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	3.85	2536.030	2535.00	2654.061	2655
	-20	3.85	2536.023	2535.00	2654.056	2655
	-10	3.85	2536.034	2535.00	2654.060	2655
	0	3.85	2536.038	2535.00	2654.049	2655
	10	3.85	2536.030	2535.00	2654.054	2655
	20	3.85	2536.040	2535.00	2654.040	2655
	30	3.85	2536.037	2535.00	2654.062	2655
	40	3.85	2536.018	2535.00	2654.061	2655
	50	3.85	2536.029	2535.00	2654.059	2655
Frequency Stability vs. Voltage	20	3.4	2536.039	2535.00	2654.059	2655
	20	4.4	2536.025	2535.00	2654.055	2655
					Result:	Pass

Occupied Bandwidth

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Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:16:12	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:16:40
Middle	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:17:09	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:17:36
Highest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:18:05	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:18:33

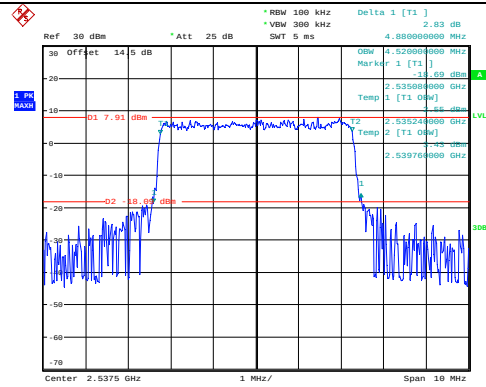
Occupied Bandwidth

Channel

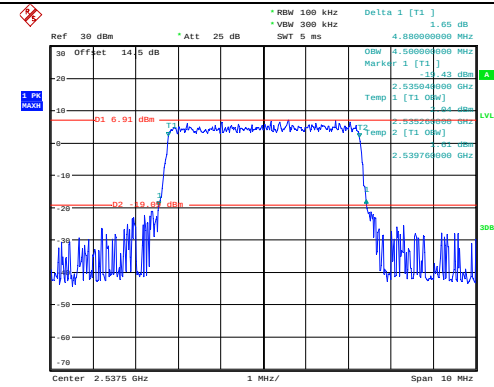
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

Lowest

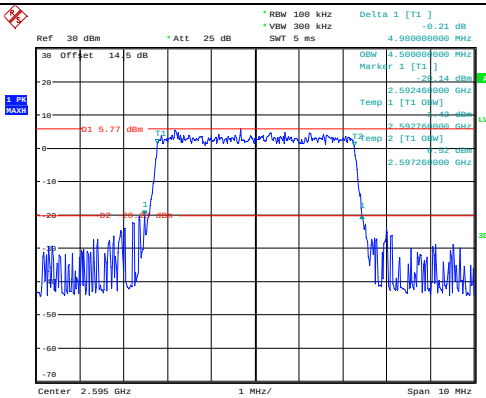


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 13:19:17

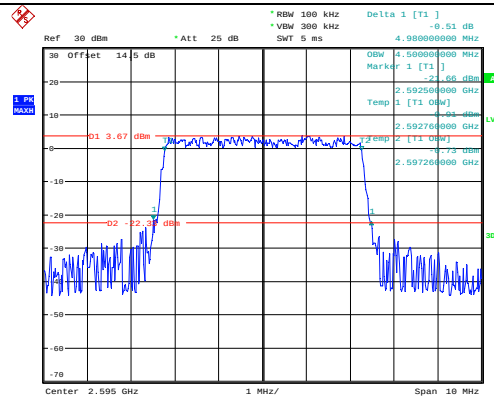


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 13:19:48

Middle

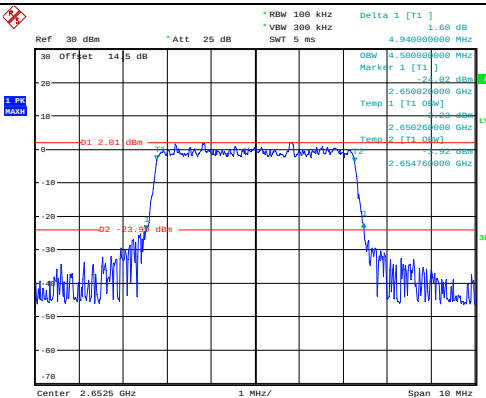


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 13:20:21

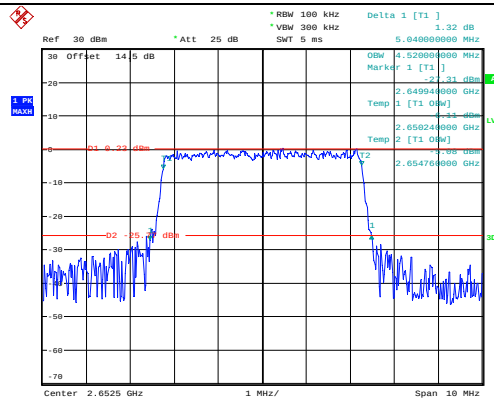


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 13:20:56

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 13:21:29



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 13:22:04

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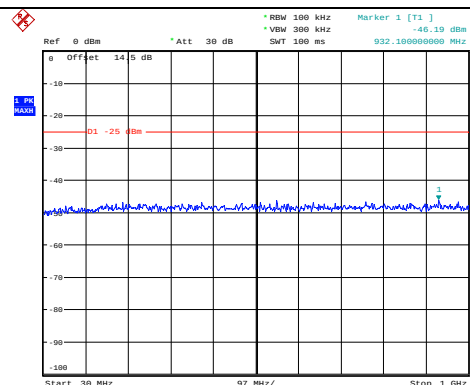
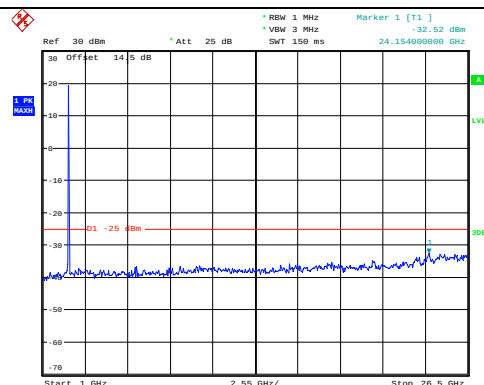
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:29:28	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:29:59
Middle	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:30:34	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:31:02
Highest	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:31:34	ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 13:32:11

Spurious Emissions at Antenna Terminal

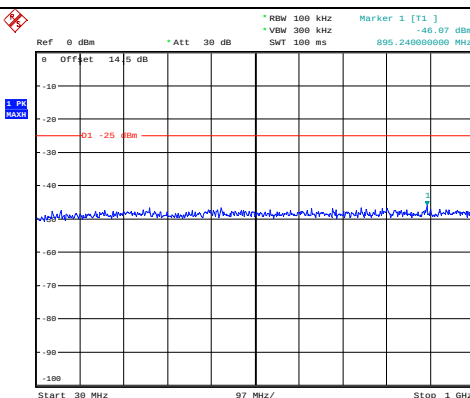
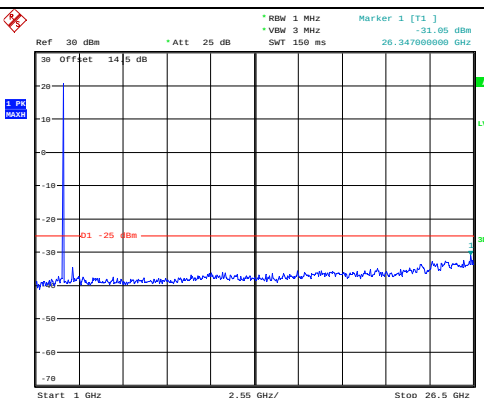
Channel

5MHz Bandwidth QPSK

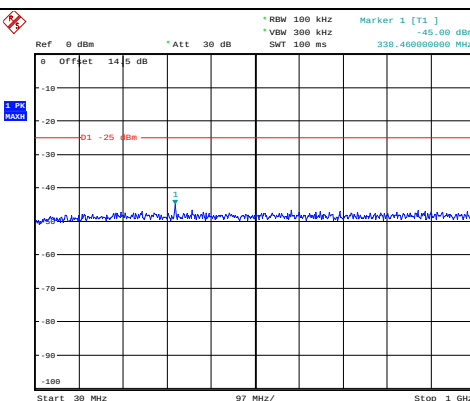
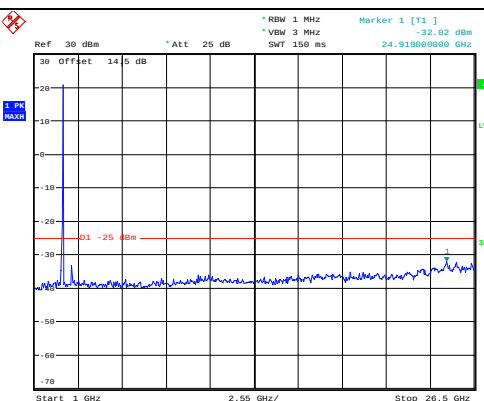
Lowest

ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 14:28:26ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 14:28:39

Middle

ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 14:28:57ProjectNo.:CR230953899-RF Tester:Clair Liu
Date: 25.OCT.2023 14:29:13

Highest

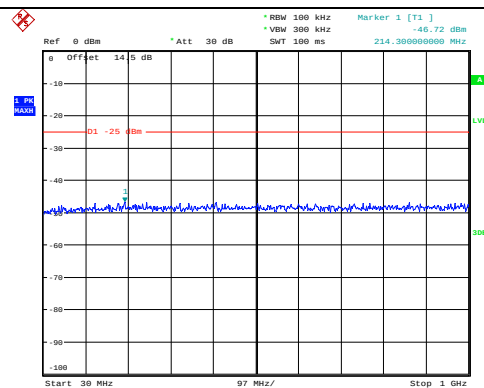
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Date: 25.OCT.2023 14:29:44

Spurious Emissions at Antenna Terminal

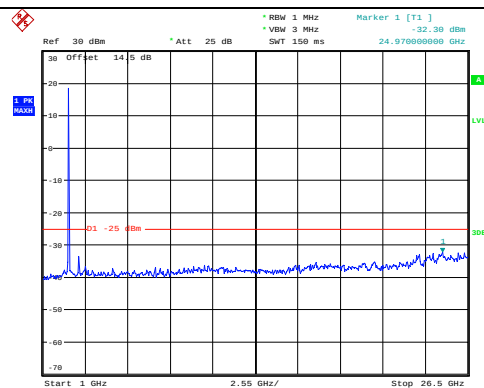
Channel

10MHz Bandwidth QPSK

Lowest

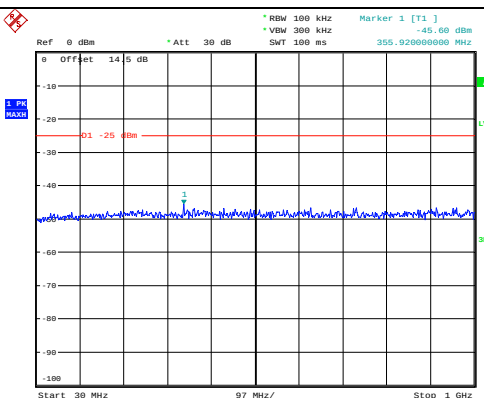


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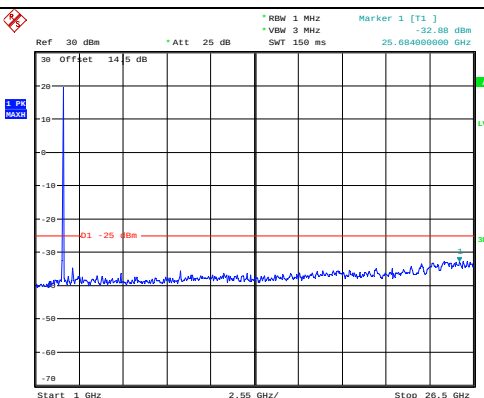


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Date: 25.OCT.2023 14:30:17

Middle

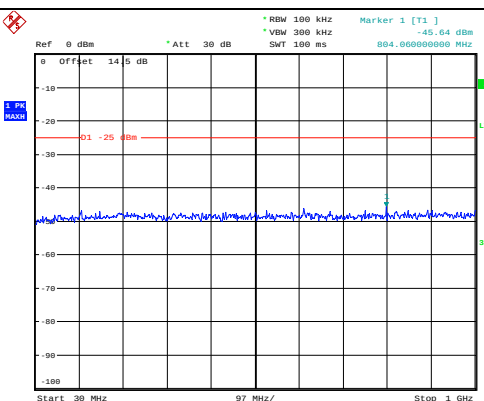


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Date: 25.OCT.2023 14:30:32

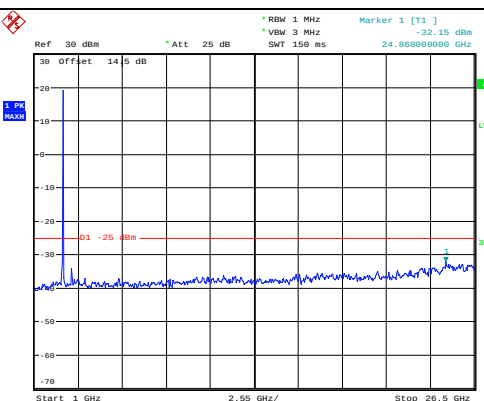


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 14:30:45

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 14:31:03



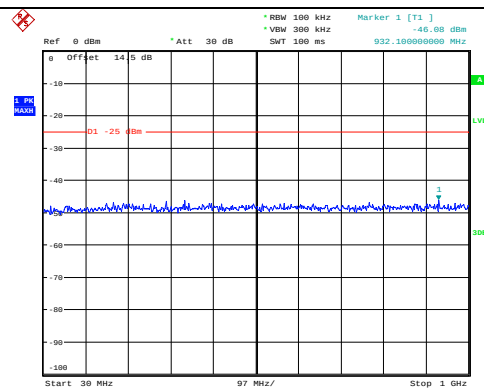
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Spurious Emissions at Antenna Terminal

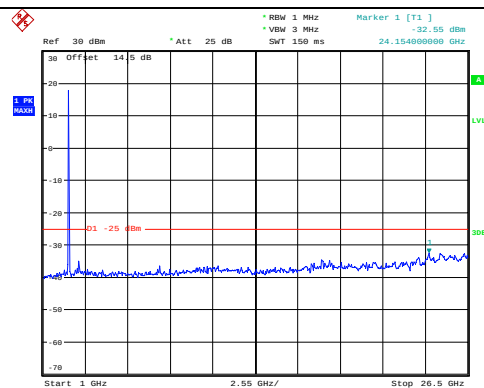
Channel

15MHz Bandwidth QPSK

Lowest

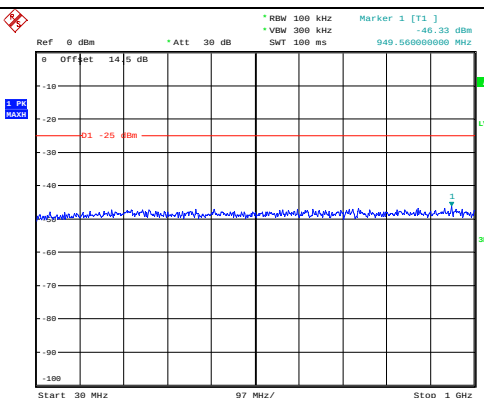


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 14:31:35

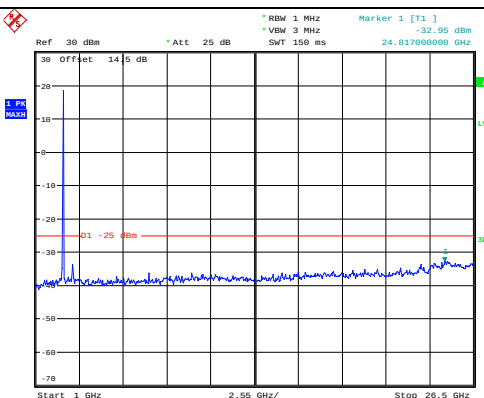


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 14:31:48

Middle

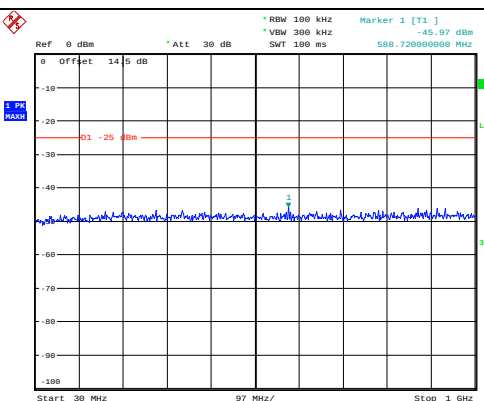


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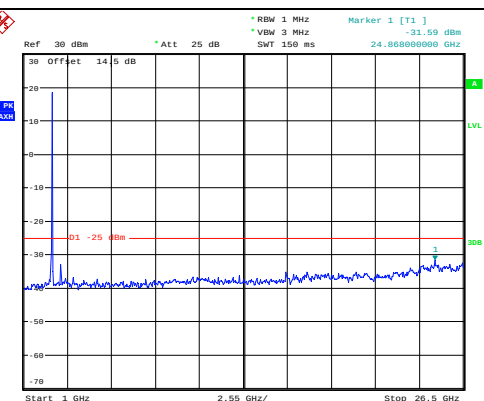


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 14:32:20

Highest



ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 14:32:35



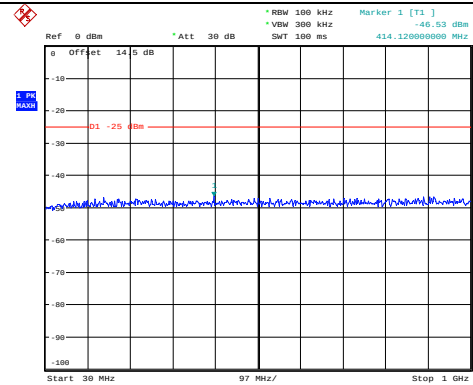
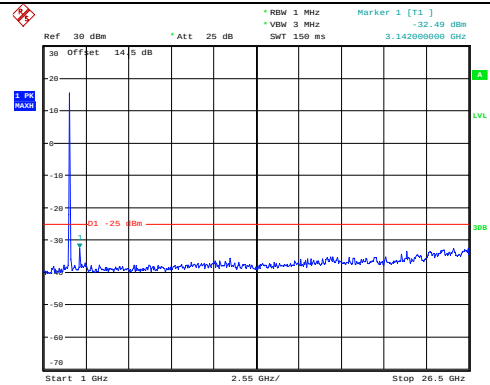
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Date: 25.OCT.2023 14:32:48

Spurious Emissions at Antenna Terminal

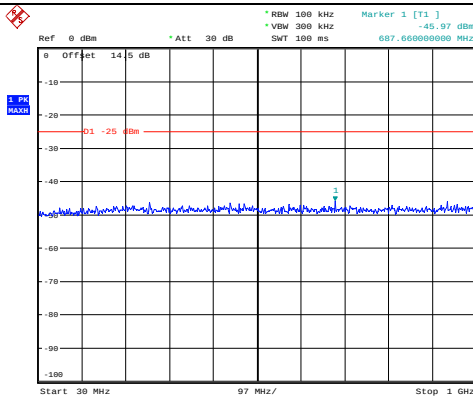
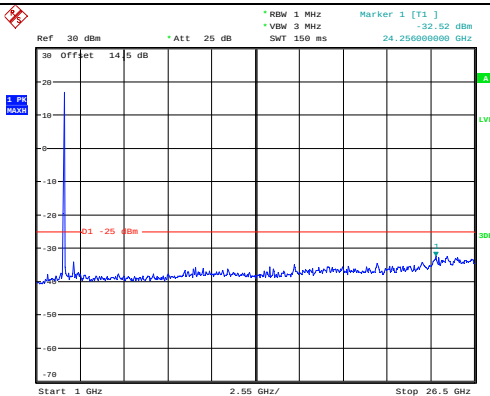
Channel

20MHz Bandwidth QPSK

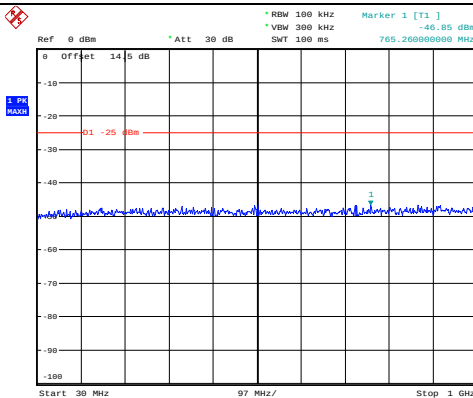
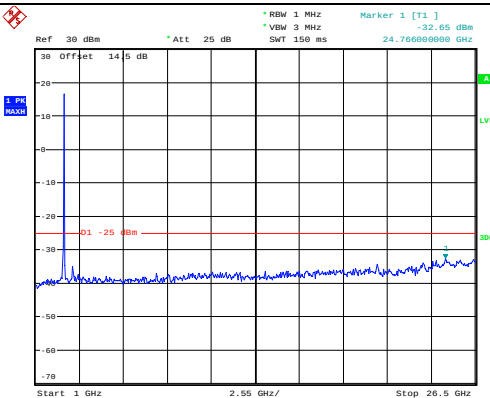
Lowest

ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 14:33:08ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 14:33:20

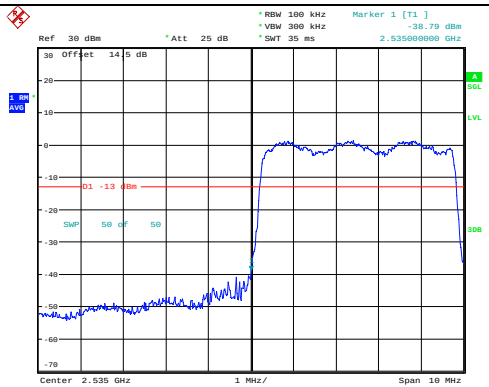
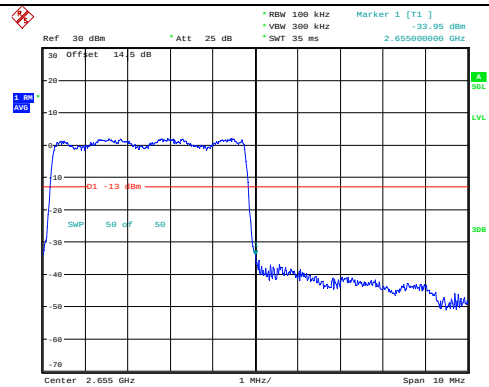
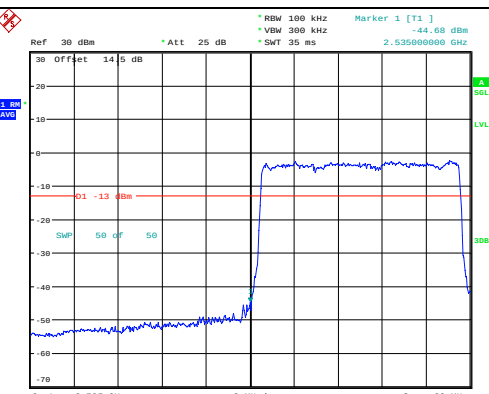
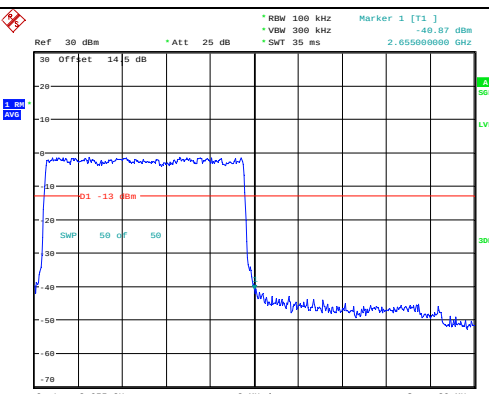
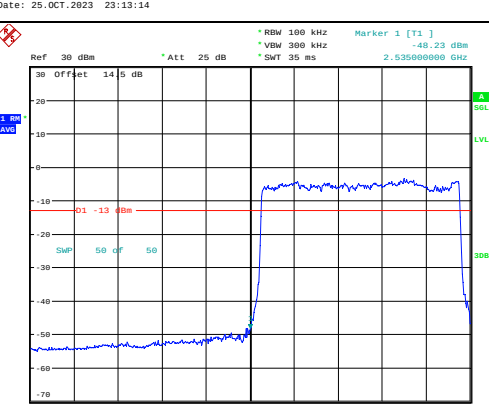
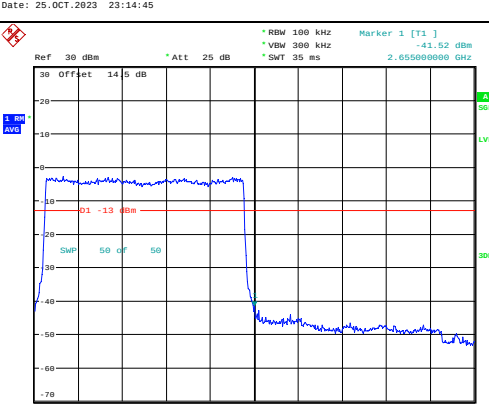
Middle

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Date: 25.OCT.2023 14:33:52

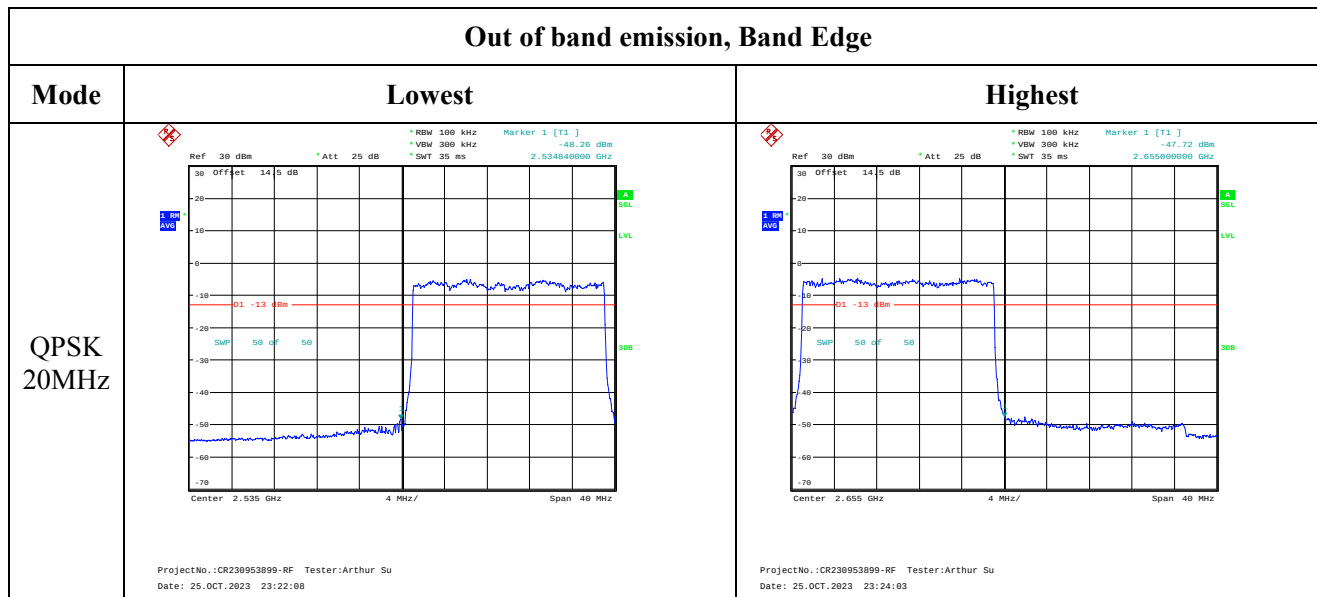
Highest

ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 14:34:07ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 14:34:16

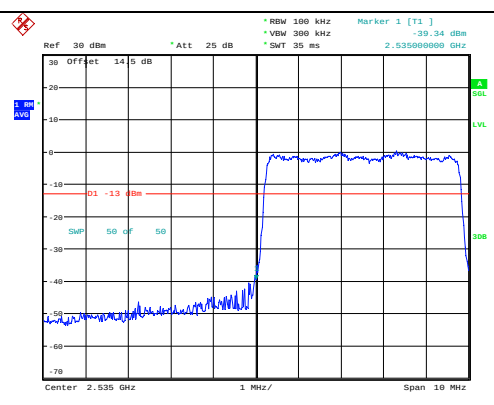
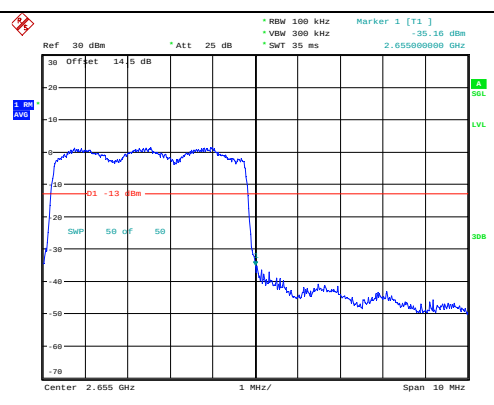
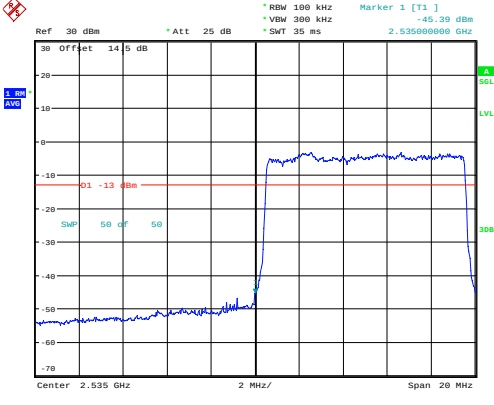
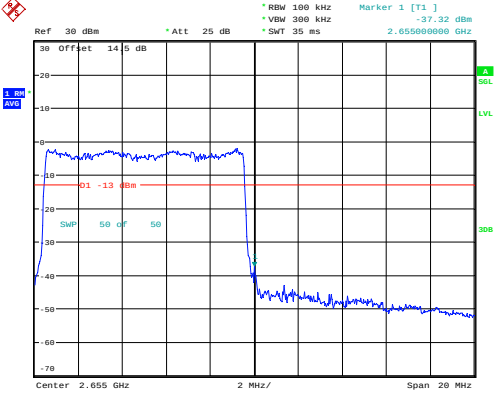
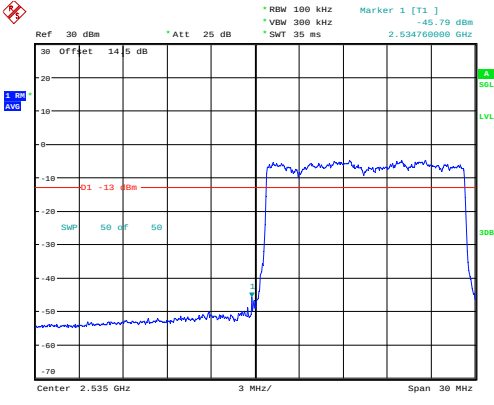
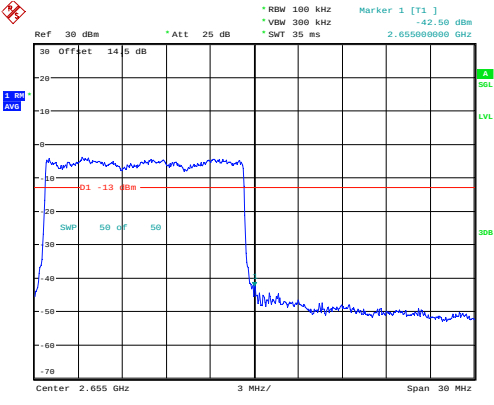
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -20.79 dBm 2.535000000 GHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:08:11	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -23.95 dBm 2.655000000 GHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:11:06
QPSK 10MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -44.68 dBm 2.535000000 GHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:13:14	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -49.87 dBm 2.655000000 GHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:14:45
QPSK 15MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -48.23 dBm 2.535000000 GHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:17:26	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -41.52 dBm 2.655000000 GHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:20:06

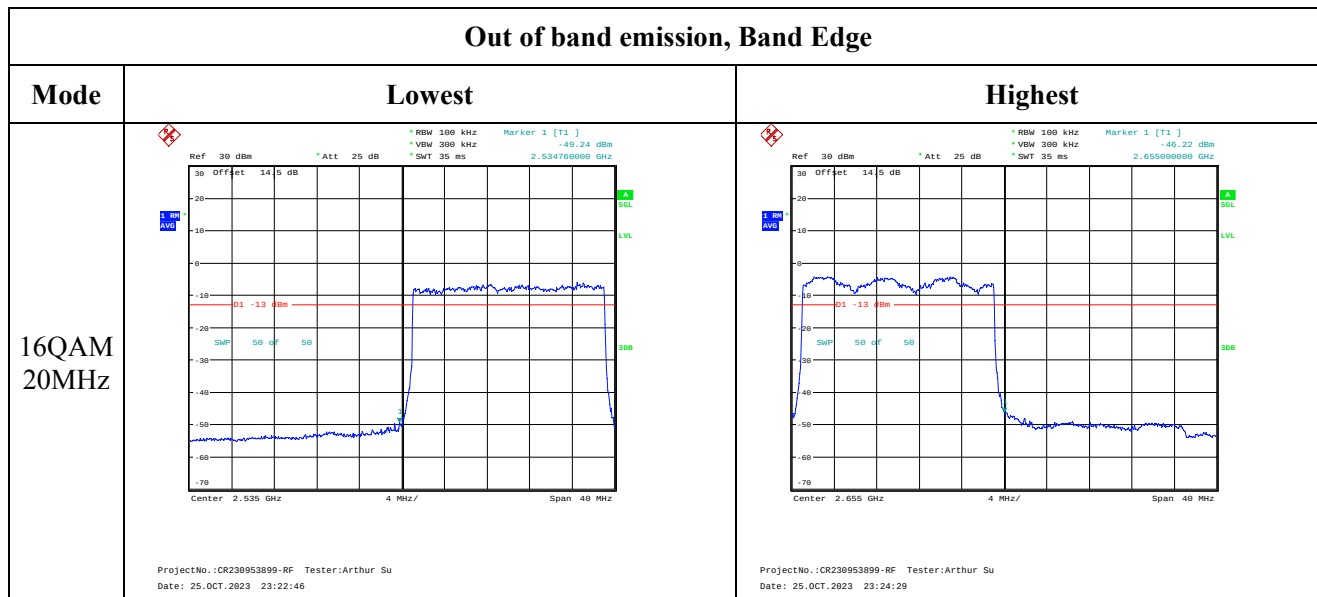
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -29.14 dBm 2.535000000 GHz 30 Offset 14.5 dB 10 20 30 40 50 60 70 01 -13 dBm SWP 50 OF 50 Center 2.535 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:09:17	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -25.16 dBm 2.655000000 GHz 30 Offset 14.5 dB 10 20 30 40 50 60 70 01 -13 dBm SWP 50 OF 50 Center 2.655 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:11:38
16QAM 10MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -45.39 dBm 2.535000000 GHz 30 Offset 14.5 dB 10 20 30 40 50 60 70 01 -13 dBm SWP 50 OF 50 Center 2.535 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:13:43	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -37.32 dBm 2.655000000 GHz 30 Offset 14.5 dB 10 20 30 40 50 60 70 01 -13 dBm SWP 50 OF 50 Center 2.655 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:15:31
16QAM 15MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -45.79 dBm 2.534760000 GHz 30 Offset 14.5 dB 10 20 30 40 50 60 70 01 -13 dBm SWP 50 OF 50 Center 2.535 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:18:31	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -42.58 dBm 2.655000000 GHz 30 Offset 14.5 dB 10 20 30 40 50 60 70 01 -13 dBm SWP 50 OF 50 Center 2.655 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Arthur Su Date: 25.OCT.2023 23:28:49

Out of band emission, Band Edge



4.16 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	2B7S-2	Test Date:	2023/10/17~2023/10/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	52~60	ATM Pressure: (kPa)	100.9~101.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:**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		
1.4MHz QPSK	RB1#0	21.28	20.77	20.88	21.96	30
	RB1#3	21.47	20.97	21.01		
	RB1#5	21.26	20.78	20.87		
	RB3#0	20.95	20.87	20.97		
	RB3#3	20.94	20.87	20.97		
	RB6#0	19.93	19.88	19.92		
1.4MHz 16QAM	RB1#0	19.96	19.77	19.91	20.67	30
	RB1#3	20.1	20.02	20.02		
	RB1#5	19.96	19.82	19.91		
	RB3#0	19.9	19.97	20.16		
	RB3#3	19.89	19.97	20.18		
	RB6#0	18.89	18.81	18.92		
3MHz QPSK	RB1#0	21.38	20.85	21.01	21.87	30
	RB1#8	20.89	20.85	20.97		
	RB1#14	20.91	20.84	20.98		
	RB6#0	19.9	19.86	19.93		
	RB6#9	19.9	19.84	19.93		
	RB15#0	19.9	19.89	19.97		
3MHz 16QAM	RB1#0	19.95	20.43	20.14	20.92	30
	RB1#8	19.88	20.39	20.1		
	RB1#14	19.93	20.41	20.13		
	RB6#0	18.84	18.92	18.94		
	RB6#9	18.85	18.92	18.97		
	RB15#0	18.98	18.97	18.93		
5MHz QPSK	RB1#0	20.84	20.79	20.94	21.5	30
	RB1#13	20.91	20.89	21.01		
	RB1#24	20.8	20.82	20.95		
	RB15#0	19.92	19.92	19.98		
	RB15#10	19.89	19.84	20.02		
	RB25#0	19.85	19.87	20.04		
5MHz 16QAM	RB1#0	19.93	19.68	20.25	20.79	30
	RB1#13	20.04	19.79	20.3		
	RB1#24	19.94	19.75	20.21		
	RB15#0	18.97	18.97	18.98		
	RB15#10	18.95	18.86	19.04		
	RB25#0	18.9	18.92	18.98		
10MHz QPSK	RB1#0	21.37	20.92	20.99	21.86	30
	RB1#25	21	21.01	21.15		
	RB1#49	20.9	20.92	20.95		
	RB25#0	19.95	19.99	20.12		

	RB25#25	19.94	19.88	19.99		
	RB50#0	19.95	19.95	20.08		
10MHz 16QAM	RB1#0	20.05	19.89	20.51	21.18	30
	RB1#25	20.21	19.99	20.69		
	RB1#49	20.03	19.93	20.55		
	RB25#0	18.96	19.09	19.17		
	RB25#25	18.94	18.97	19.01		
	RB50#0	18.97	18.98	19.07		
	RB1#0	20.82	20.82	20.94		
15MHz QPSK	RB1#38	20.91	20.89	21.01	21.5	30
	RB1#74	20.73	20.81	20.9		
	RB36#0	19.97	20.04	20.13		
	RB36#39	19.93	19.94	19.98		
	RB75#0	19.94	19.99	20.08		
	RB1#0	20.23	20.37	20.08	20.96	30
15MHz 16QAM	RB1#38	20.33	20.47	20.15		
	RB1#74	20.21	20.43	20.04		
	RB36#0	18.92	19	19.1		
	RB36#39	18.93	18.92	18.96		
	RB75#0	18.96	18.99	19.06		
	RB1#0	20.62	20.68	20.78	21.67	30
20MHz QPSK	RB1#50	21.03	21.07	21.18		
	RB1#99	20.58	20.73	20.76		
	RB50#0	19.97	20.05	19.97		
	RB50#50	20.02	19.89	19.83		
	RB100#0	20.02	20	19.89		
	RB1#0	20.27	19.96	20.01	21.15	30
20MHz 16QAM	RB1#50	20.66	20.38	20.31		
	RB1#99	20.23	20.06	19.91		
	RB50#0	18.95	19.09	18.96		
	RB50#50	19.05	18.85	18.83		
	RB100#0	19.05	19.02	18.91		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(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	6.16	6.48	6.64	13
	RB100#0	6.41	6.35	6.31	13
20MHz 16QAM	RB1#0	7.16	7.03	7.29	13
	RB100#0	7.15	7.12	7.12	13
				Result:	Pass

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
1.4MHz QPSK	1.104	1.104	1.104	1.29	1.302	1.314
1.4MHz 16QAM	1.104	1.104	1.092	1.29	1.314	1.284
3MHz QPSK	2.687	2.687	2.687	2.892	2.88	2.868
3MHz 16QAM	2.687	2.687	2.687	2.868	2.892	2.88
5MHz QPSK	4.52	4.56	4.52	5.08	5.22	5.14
5MHz 16QAM	4.54	4.52	4.56	5.2	5.14	5.22
10MHz QPSK	9	8.96	9	9.72	9.88	9.84
10MHz 16QAM	8.96	9	9	9.84	9.84	9.92
15MHz QPSK	13.62	13.56	13.56	15.12	15.18	15.06
15MHz 16QAM	13.62	13.56	13.5	15.12	15	14.94
20MHz QPSK	18	18	18	19.44	19.76	19.44
20MHz 16QAM	18	18.08	17.92	19.68	19.52	19.52

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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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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Frequency Stability

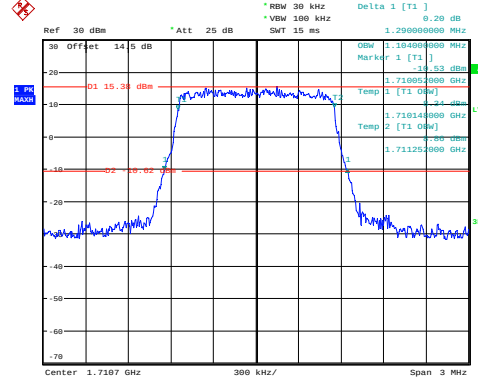
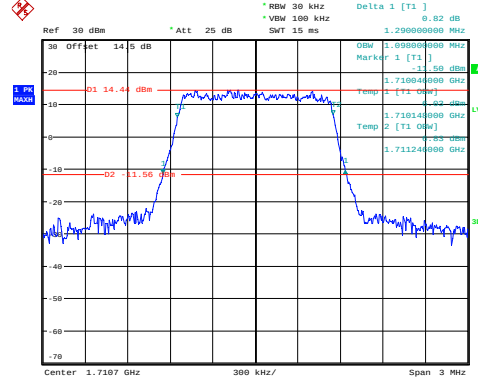
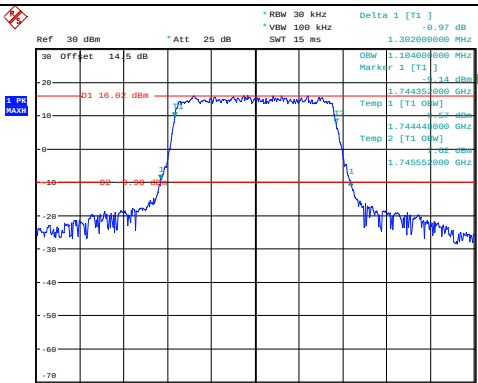
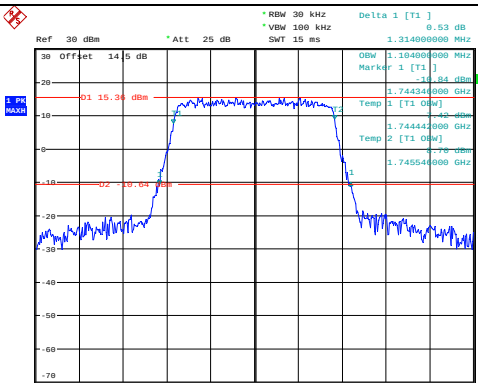
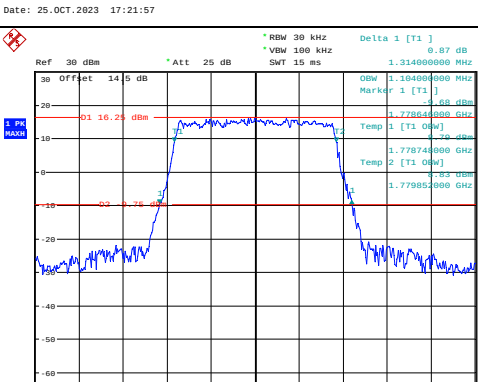
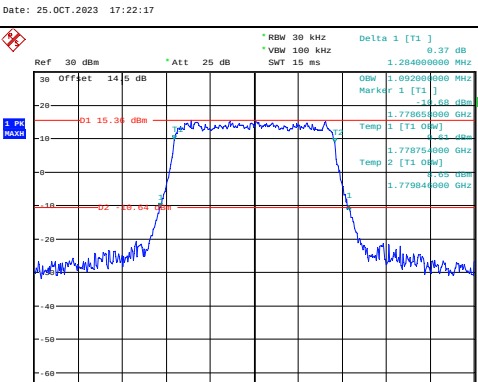
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	1711.038	1710.00	1779.048	1780
	-20	3.85	1711.021	1710.00	1779.057	1780
	-10	3.85	1711.028	1710.00	1779.061	1780
	0	3.85	1711.011	1710.00	1779.068	1780
	10	3.85	1711.027	1710.00	1779.061	1780
	20	3.85	1711.040	1710.00	1779.040	1780
	30	3.85	1711.018	1710.00	1779.068	1780
	40	3.85	1711.012	1710.00	1779.063	1780
	50	3.85	1711.031	1710.00	1779.041	1780
Frequency Stability vs. Voltage	20	3.4	1711.013	1710.00	1779.065	1780
	20	4.4	1711.032	1710.00	1779.064	1780
					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	3.85	1711.021	1710.00	1778.964	1780
	-20	3.85	1711.018	1710.00	1778.968	1780
	-10	3.85	1711.018	1710.00	1778.982	1780
	0	3.85	1711.029	1710.00	1778.963	1780
	10	3.85	1711.020	1710.00	1778.965	1780
	20	3.85	1711.040	1710.00	1778.960	1780
	30	3.85	1711.031	1710.00	1778.979	1780
	40	3.85	1711.036	1710.00	1778.971	1780
	50	3.85	1711.022	1710.00	1778.964	1780
Frequency Stability vs. Voltage	20	3.4	1711.030	1710.00	1778.981	1780
	20	4.4	1711.012	1710.00	1778.966	1780
					Result:	Pass

Test Plots(Note: The 14.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:21:07	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:21:30
Middle	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:21:57	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:22:17
Highest	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:22:44	 ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:23:07

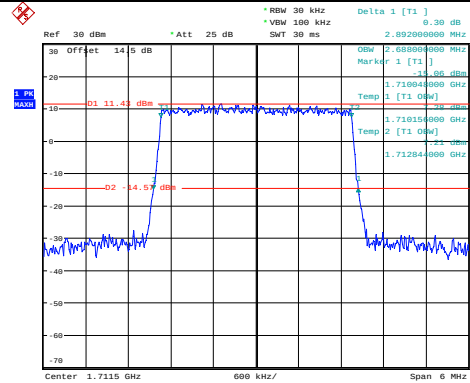
Occupied Bandwidth

Channel

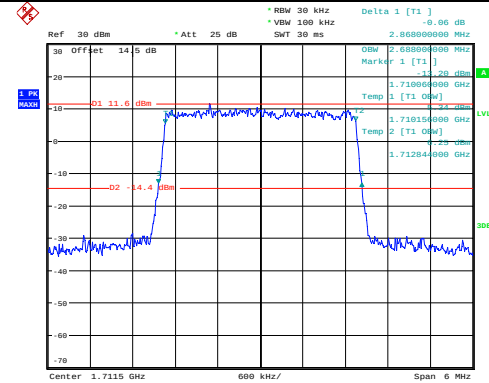
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

Lowest

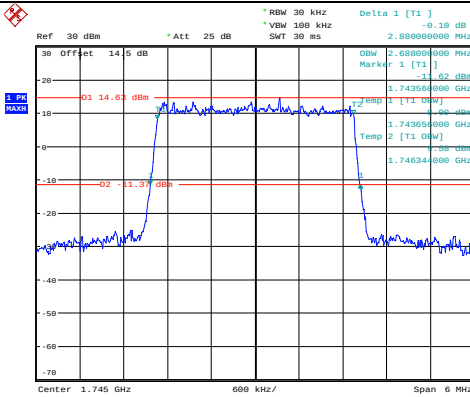


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:23:58

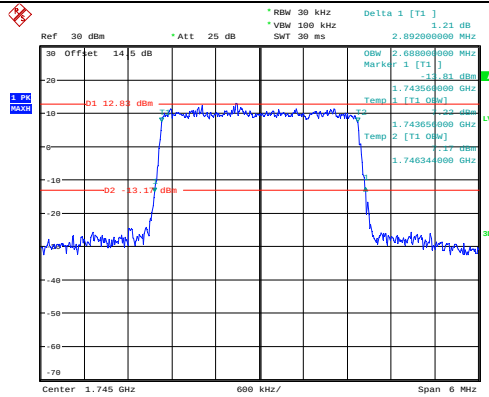


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:24:18

Middle

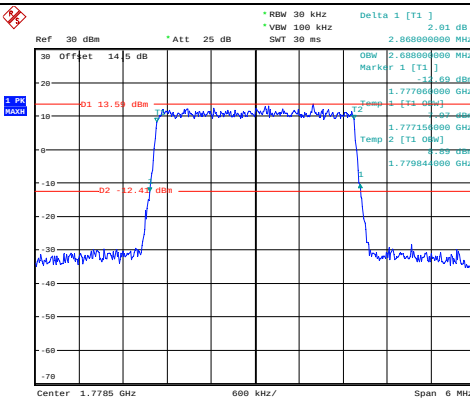


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:24:39

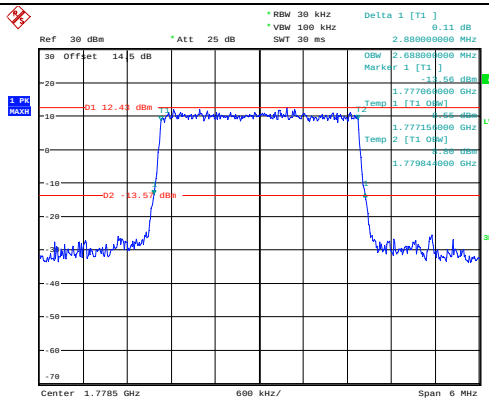


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:24:59

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:25:20



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:25:46

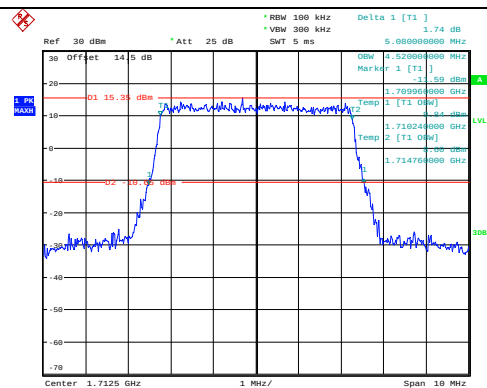
Occupied Bandwidth

Channel

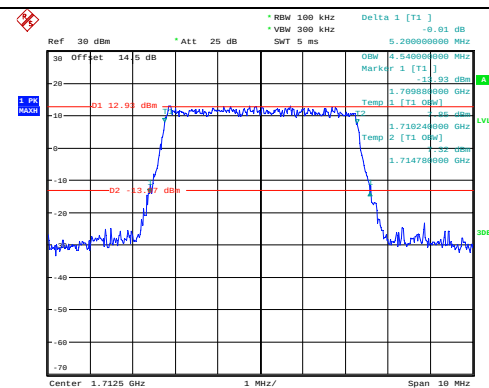
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

Lowest

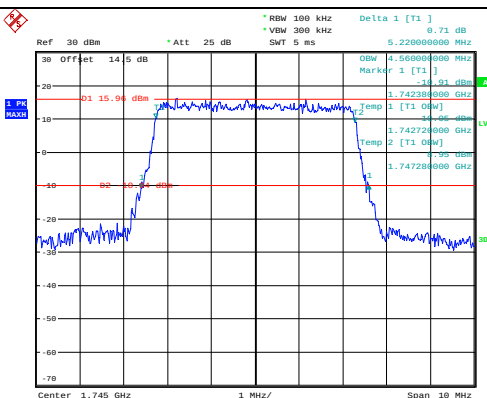


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:26:40

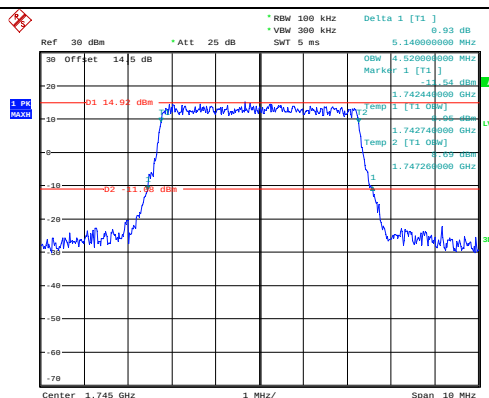


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:27:01

Middle

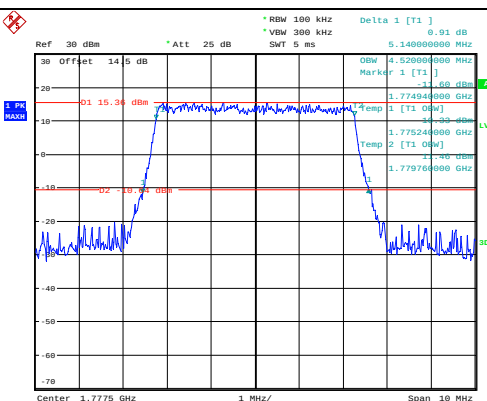


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:27:25

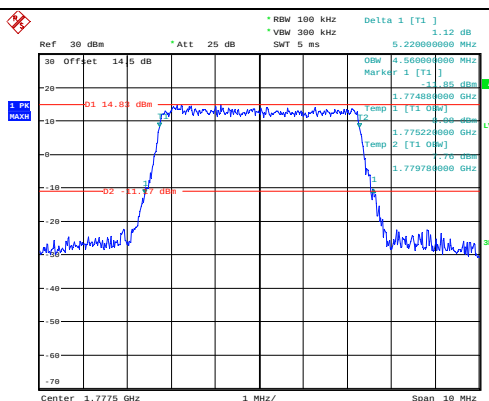


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:27:48

Highest

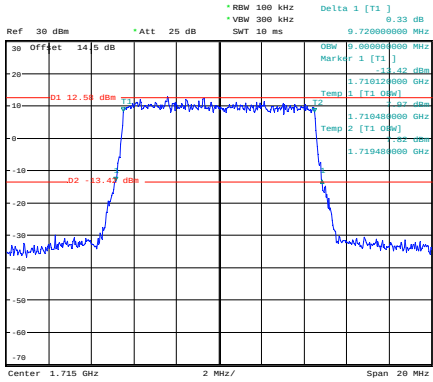
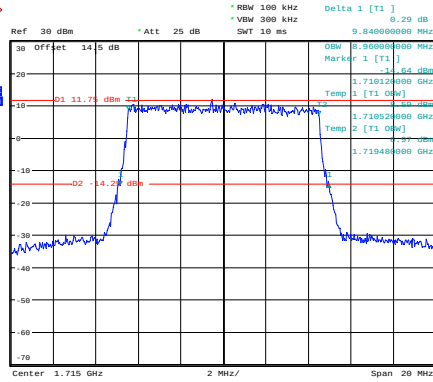
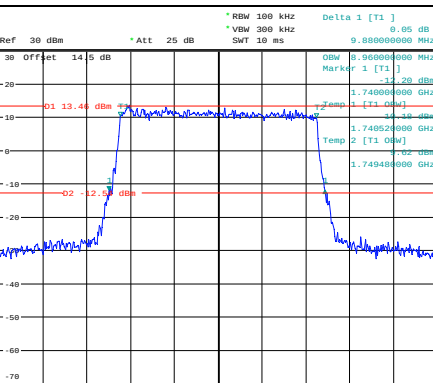
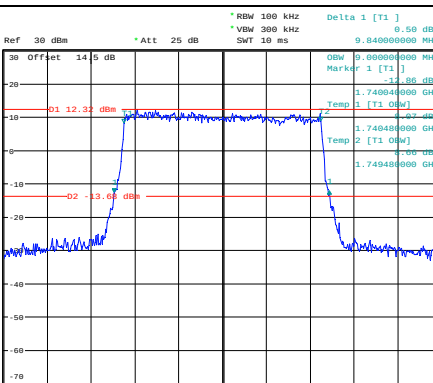
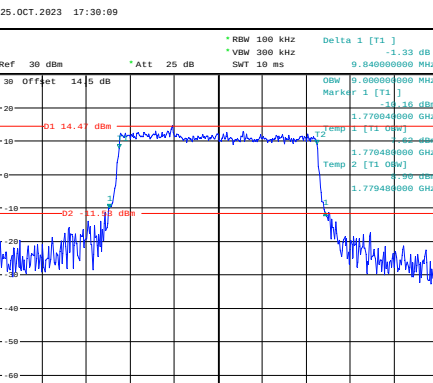
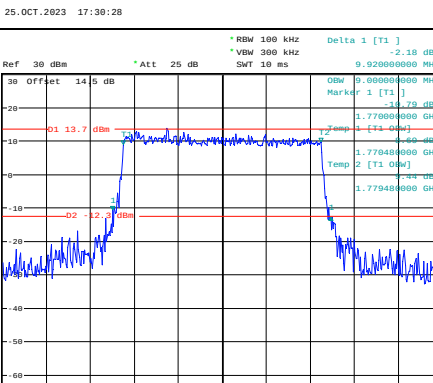


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:28:11



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:28:34

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.33 dB *VBW 300 kHz 9.720000000 MHz SMT 10 ms OSW 9.600000000 MHz Marker 1 [T1] -35.42 dBm Temp 1 [T1 OSW] 1.710120000 GHz 1.719480000 GHz Temp 2 [T1 OSW] 1.719480000 GHz LVL 30B Center 1.715 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:29:25	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.29 dB *VBW 300 kHz 9.840000000 MHz SMT 10 ms OSW 9.600000000 MHz Marker 1 [T1] -35.64 dBm Temp 1 [T1 OSW] 1.710120000 GHz 1.719480000 GHz Temp 2 [T1 OSW] 1.719480000 GHz LVL 30B Center 1.715 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:29:48
Middle	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.05 dB *VBW 300 kHz 9.600000000 MHz SMT 10 ms OSW 9.600000000 MHz Marker 1 [T1] -35.20 dBm Temp 1 [T1 OSW] 1.740040000 GHz 1.749480000 GHz Temp 2 [T1 OSW] 1.749480000 GHz LVL 30B Center 1.745 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:30:09	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.50 dB *VBW 300 kHz 9.840000000 MHz SMT 10 ms OSW 9.600000000 MHz Marker 1 [T1] -35.86 dBm Temp 1 [T1 OSW] 1.740040000 GHz 1.749480000 GHz Temp 2 [T1 OSW] 1.749480000 GHz LVL 30B Center 1.745 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:30:28
Highest	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -1.33 dB *VBW 300 kHz 9.640000000 MHz SMT 10 ms OSW 9.600000000 MHz Marker 1 [T1] -35.16 dBm Temp 1 [T1 OSW] 1.770040000 GHz 1.779480000 GHz Temp 2 [T1 OSW] 1.779480000 GHz LVL 30B Center 1.775 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:30:58	 Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -2.18 dB *VBW 300 kHz 9.820000000 MHz SMT 10 ms OSW 9.600000000 MHz Marker 1 [T1] -35.79 dBm Temp 1 [T1 OSW] 1.770040000 GHz 1.779480000 GHz Temp 2 [T1 OSW] 1.779480000 GHz LVL 30B Center 1.775 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 17:31:22

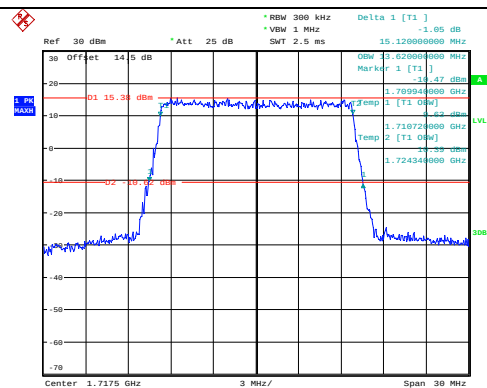
Occupied Bandwidth

Channel

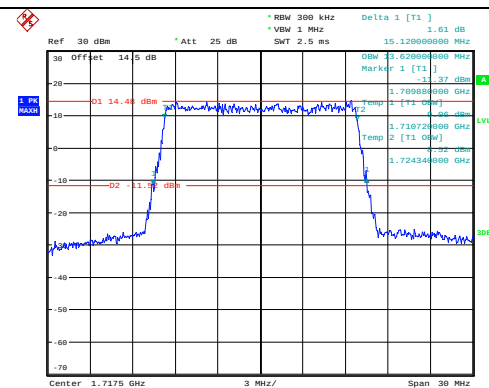
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

Lowest

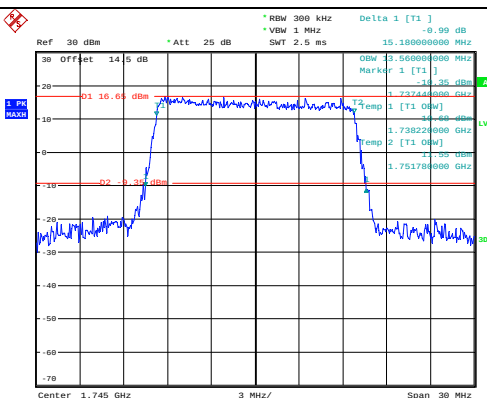


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:32:16

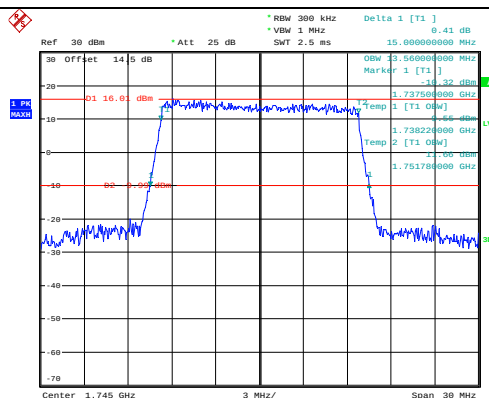


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:32:36

Middle

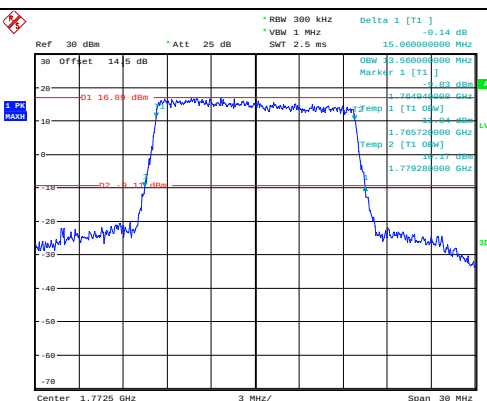


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:32:00

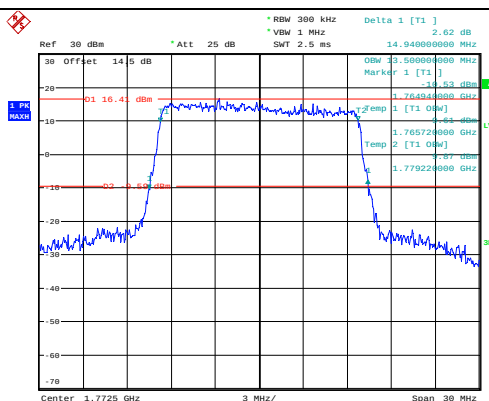


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:33:23

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:33:47



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:34:07

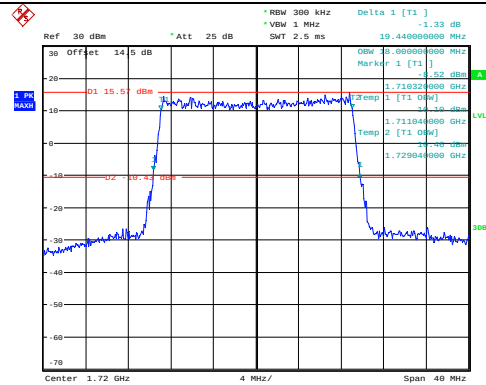
Occupied Bandwidth

Channel

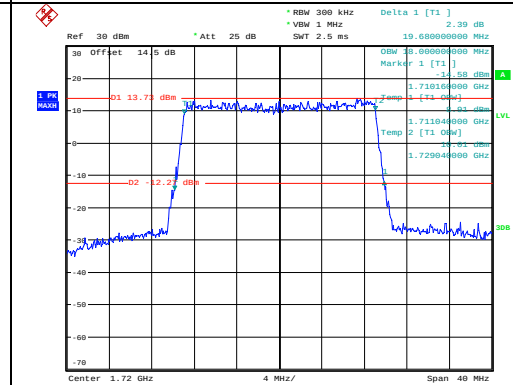
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

Lowest

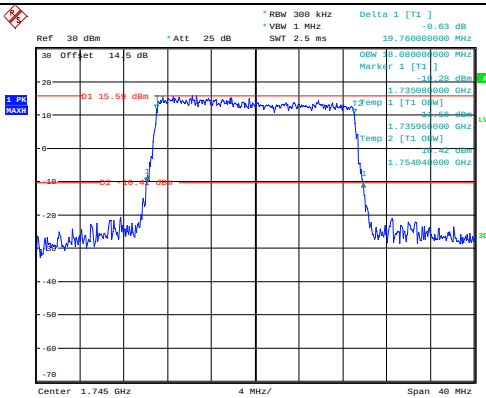


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:35:07

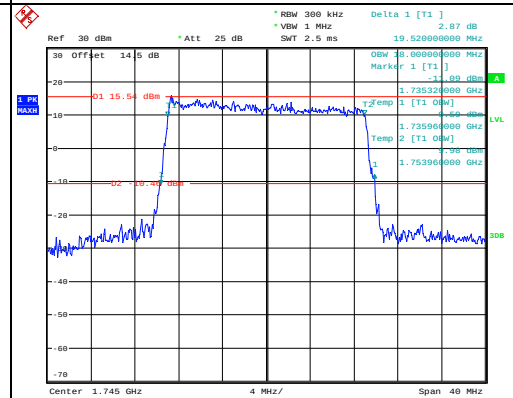


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:35:27

Middle

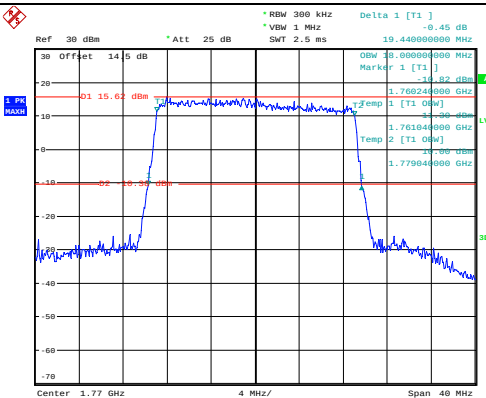


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:35:51

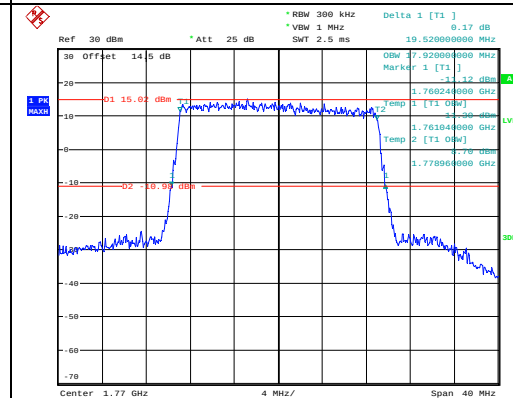


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:36:10

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:36:51



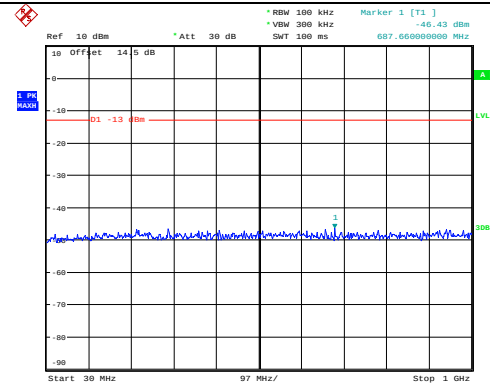
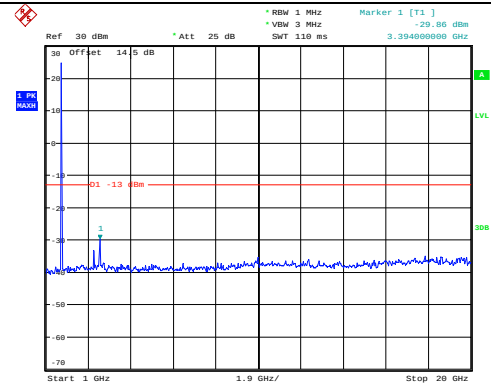
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 17:36:51

Spurious Emissions at Antenna Terminal

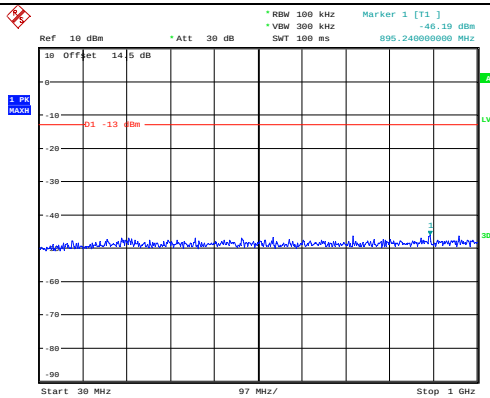
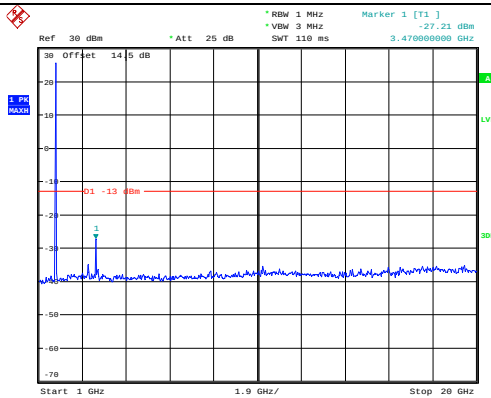
Channel

1.4MHz Bandwidth QPSK

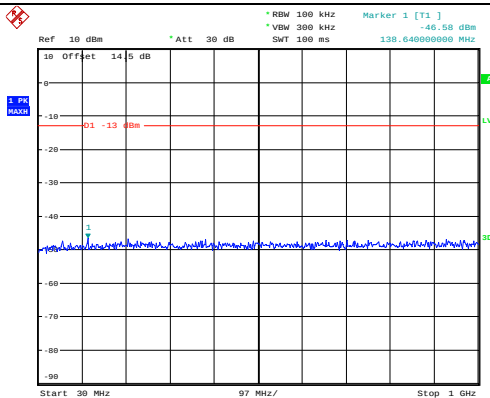
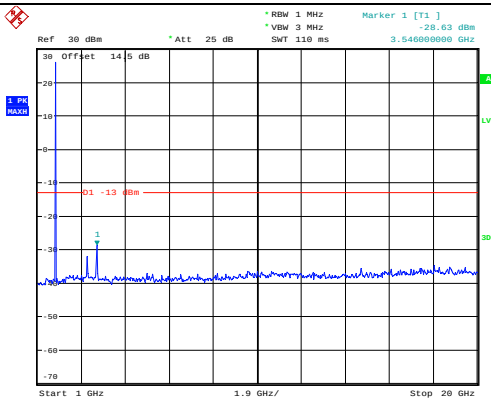
Lowest

ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:14:01ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:14:12

Middle

ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:14:25ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:14:35

Highest

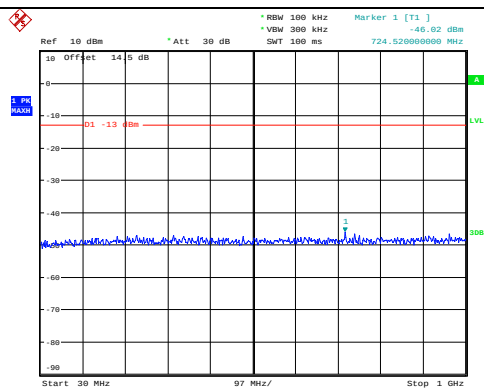
ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:14:49ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:14:59

Spurious Emissions at Antenna Terminal

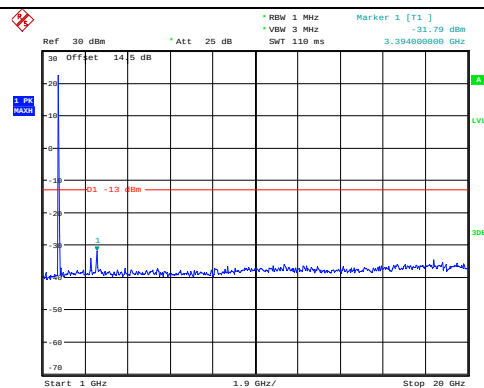
Channel

3MHz Bandwidth QPSK

Lowest

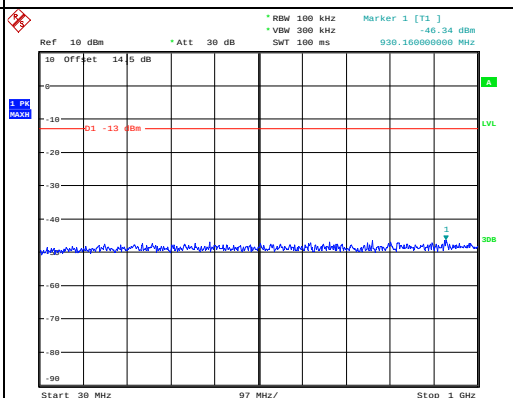


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:15:51

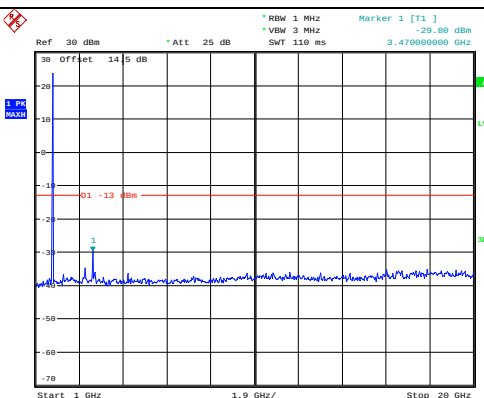


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:16:01

Middle

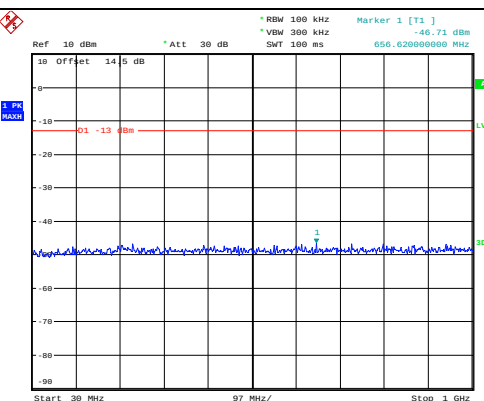


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:16:14

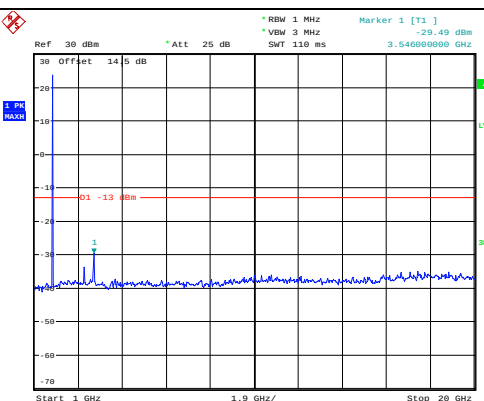


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:16:24

Highest



ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:16:37



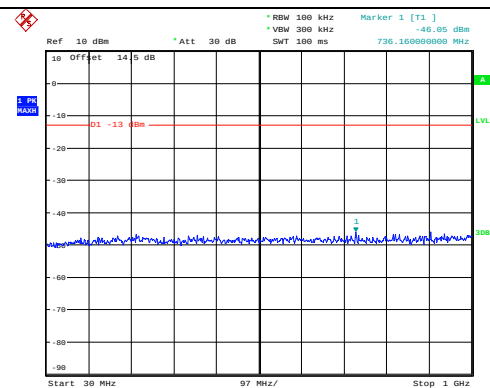
ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:16:47

Spurious Emissions at Antenna Terminal

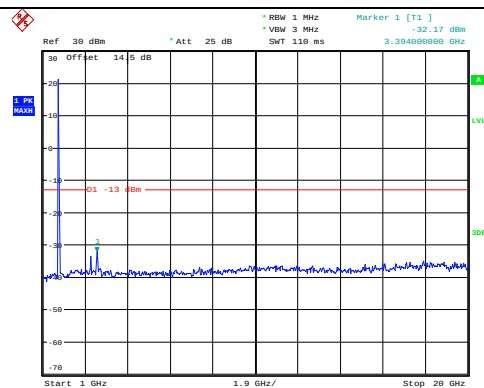
Channel

5MHz Bandwidth QPSK

Lowest

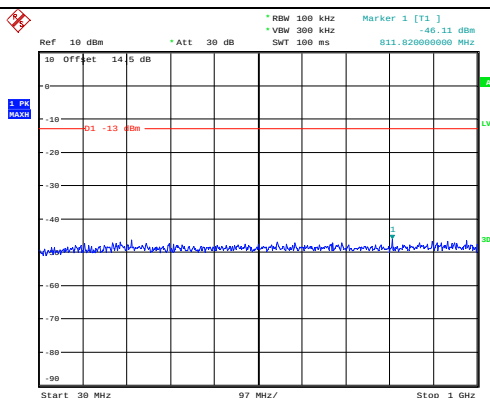


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:17:42

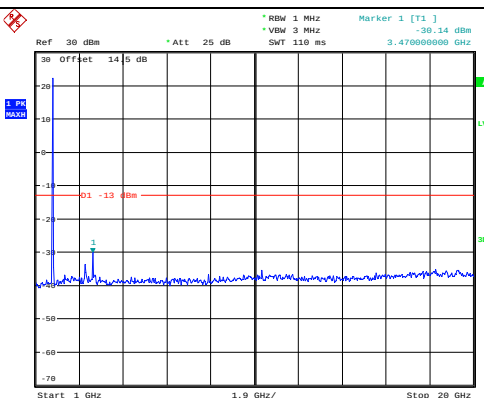


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:17:52

Middle

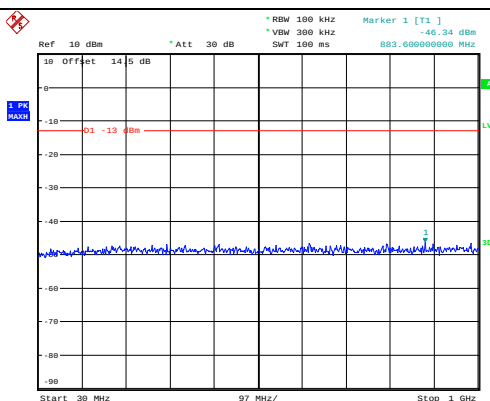


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:18:05

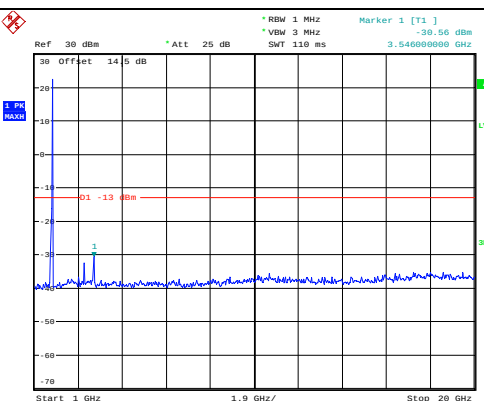


ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:18:15

Highest



ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:18:28



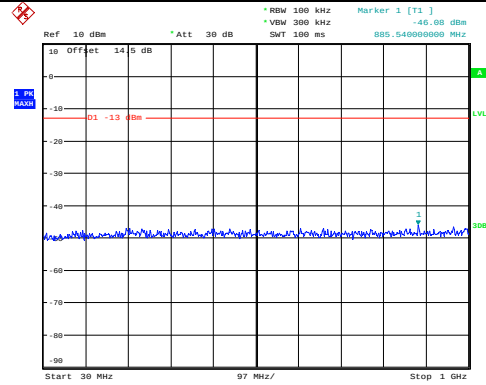
ProjectNo.:CR230953899-RF Tester:Claire Liu
Date: 25.OCT.2023 22:18:38

Spurious Emissions at Antenna Terminal

Channel

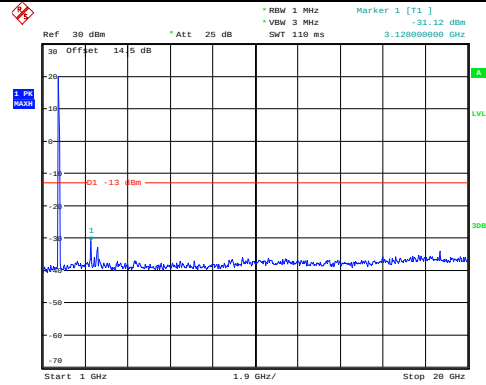
10MHz Bandwidth QPSK

Lowest



ProjectNo.:CR230953899-RF Tester: Claire Liu

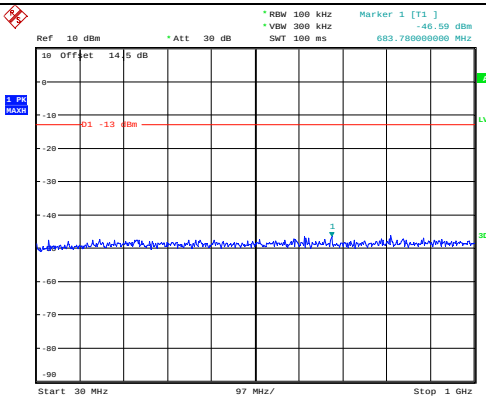
Date: 25.OCT.2023 22:19:30



ProjectNo.:CR230953899-RF Tester: Claire Liu

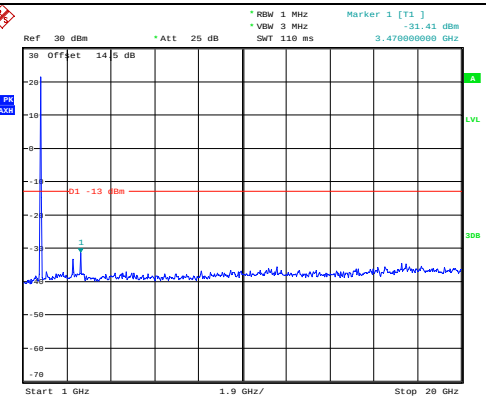
Date: 25.OCT.2023 22:19:40

Middle



ProjectNo.:CR230953899-RF Tester: Claire Liu

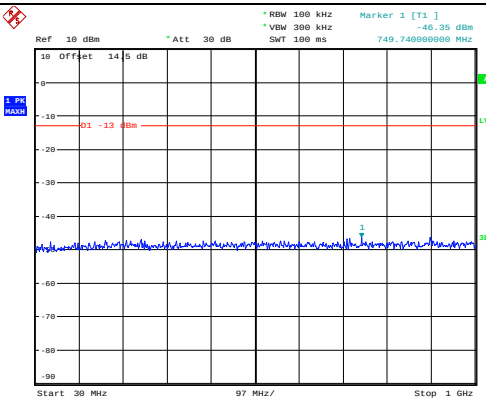
Date: 25.OCT.2023 22:19:53



ProjectNo.:CR230953899-RF Tester: Claire Liu

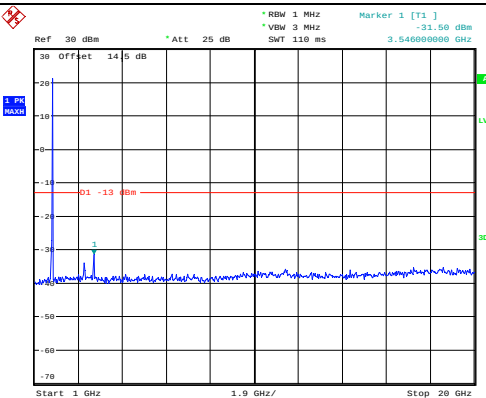
Date: 25.OCT.2023 22:20:03

Highest



ProjectNo.:CR230953899-RF Tester: Claire Liu

Date: 25.OCT.2023 22:20:16



ProjectNo.:CR230953899-RF Tester: Claire Liu

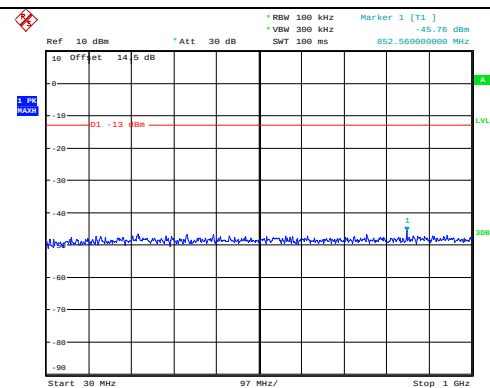
Date: 25.OCT.2023 22:20:26

Spurious Emissions at Antenna Terminal

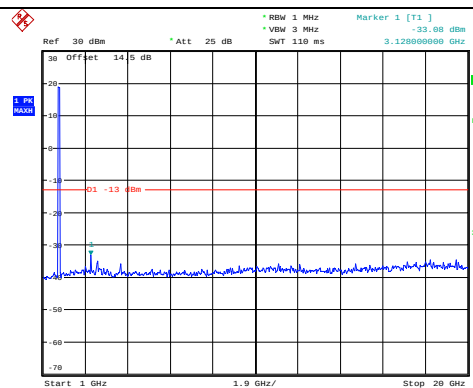
Channel

15MHz Bandwidth QPSK

Lowest

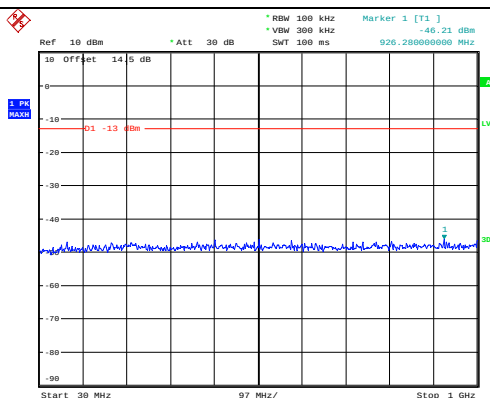


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:21:21

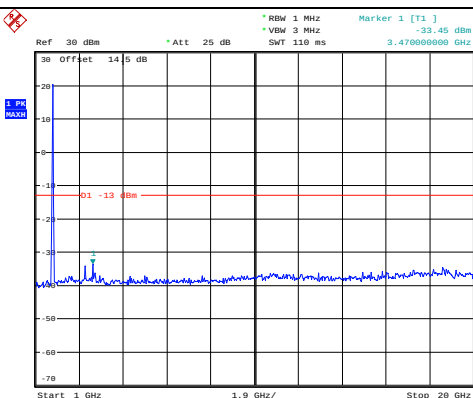


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:21:31

Middle

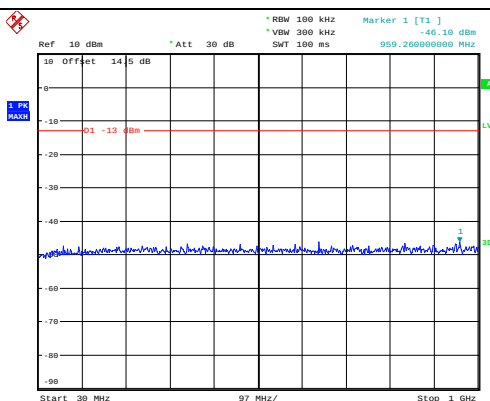


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:21:47

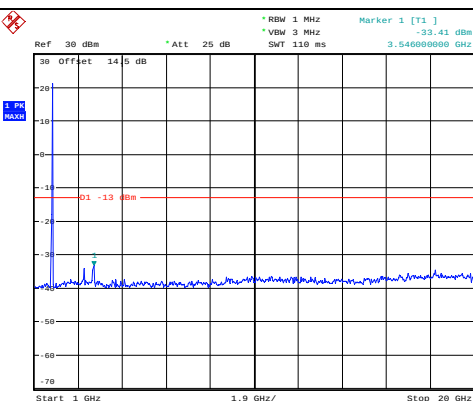


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:21:57

Highest



ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:22:10



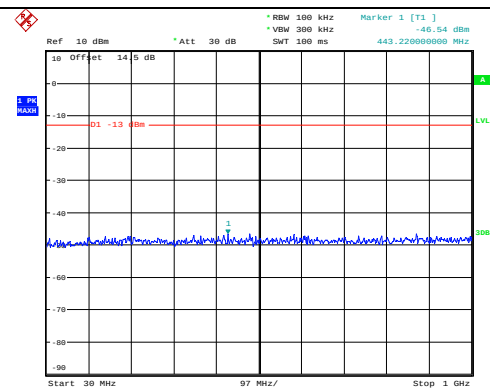
ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:22:20

Spurious Emissions at Antenna Terminal

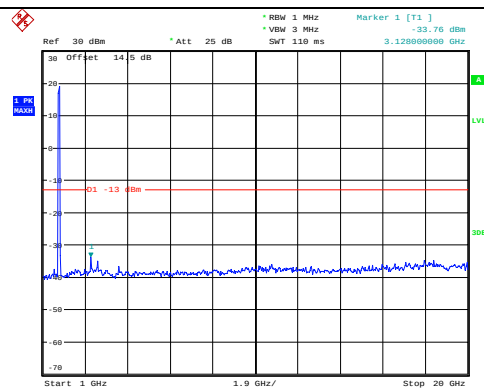
Channel

20MHz Bandwidth QPSK

Lowest

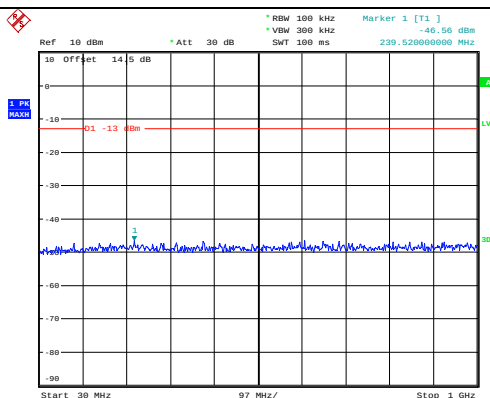


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:23:11

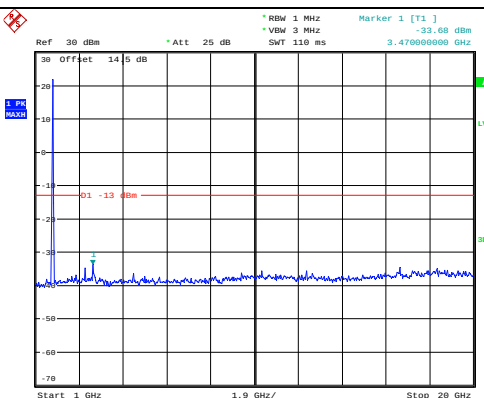


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:23:22

Middle

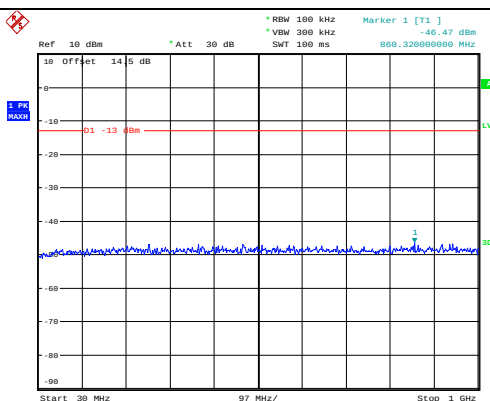


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:23:34

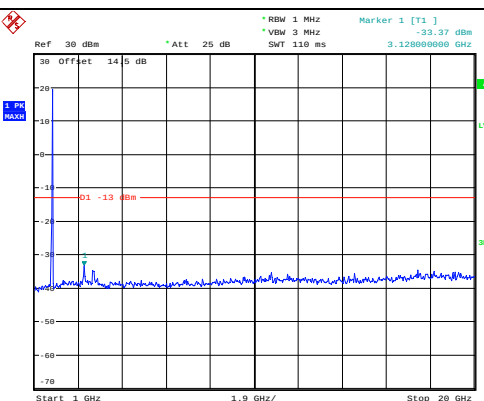


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:23:45

Highest



ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:23:58

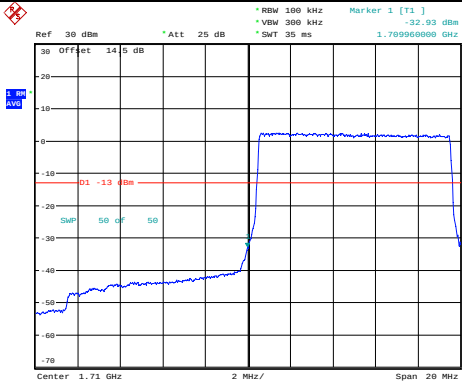
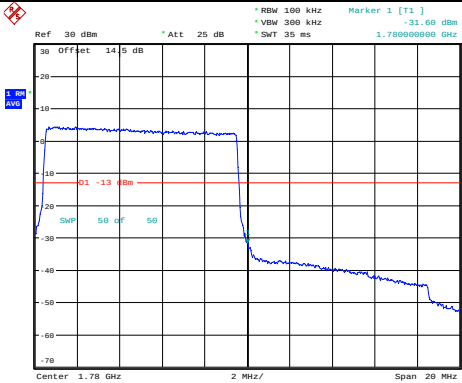
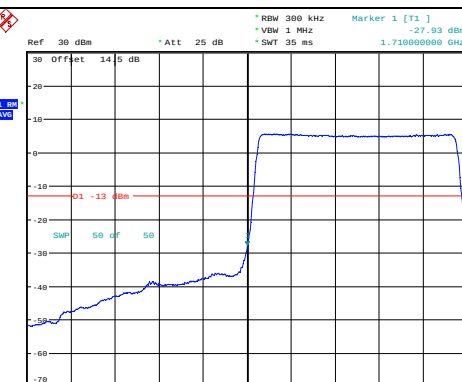
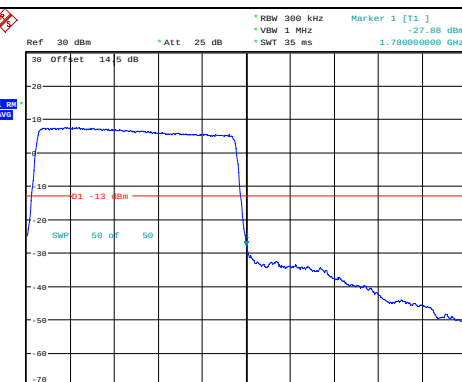
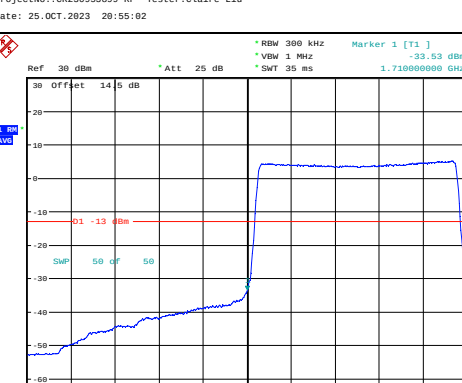


ProjectNo.:CR230953899-RF Tester: Claire Liu
Date: 25.OCT.2023 22:24:08

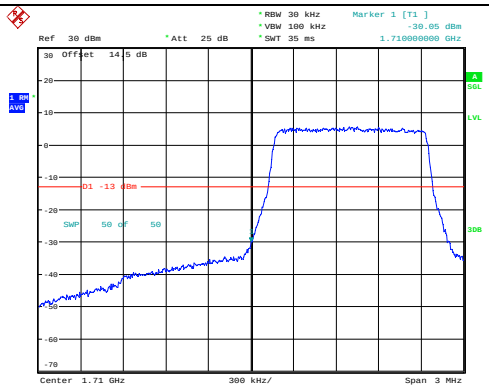
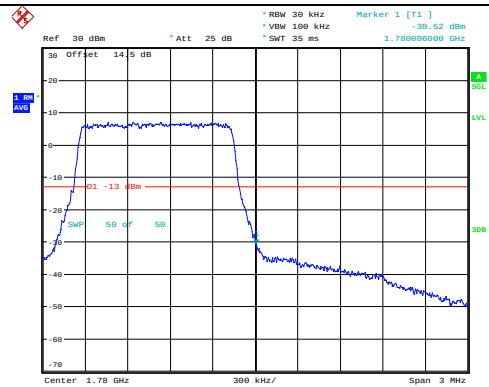
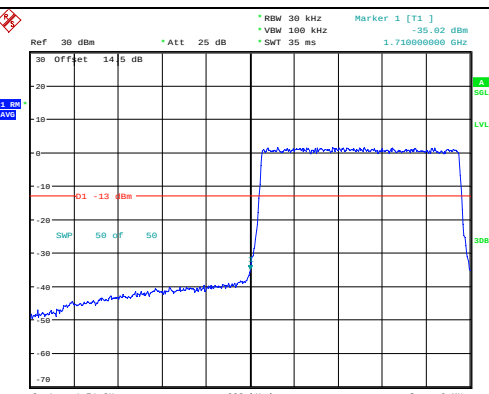
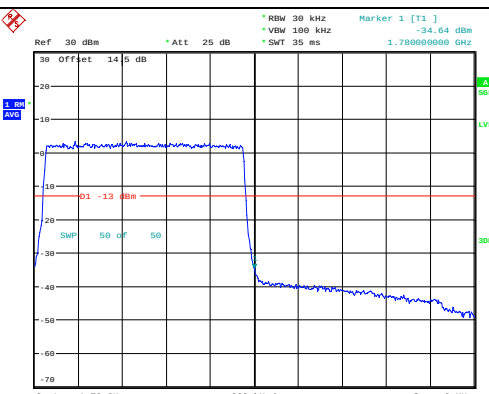
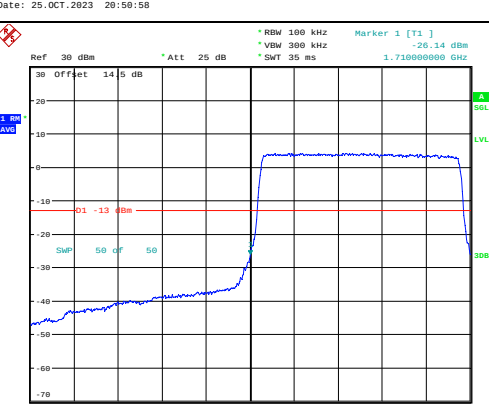
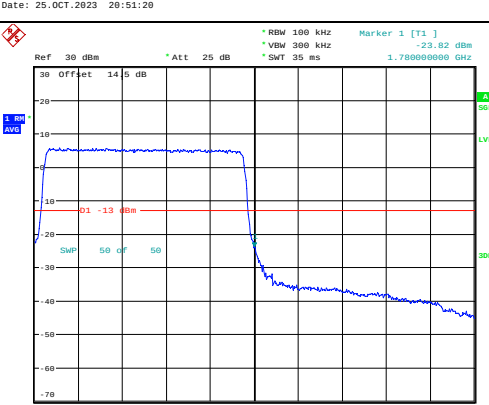
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -29.52 dBm 1.710000000 GHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:49:26	Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -29.28 dBm 1.780000000 GHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:49:48
QPSK 3MHz	Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -35.44 dBm 1.710000000 GHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:50:47	Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -34.20 dBm 1.780000000 GHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:51:09
QPSK 5MHz	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -24.58 dBm 1.710000000 GHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:52:10	Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -23.45 dBm 1.780000000 GHz ProjectNo.:CR230953899-RF Tester:Clair Liu Date: 25.OCT.2023 20:52:33

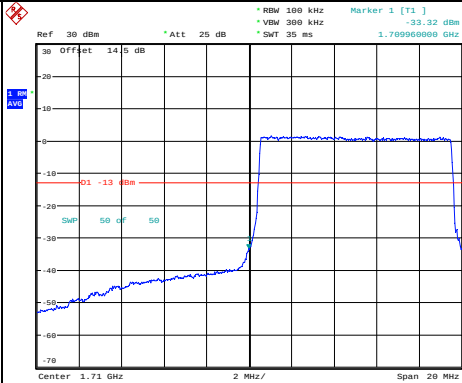
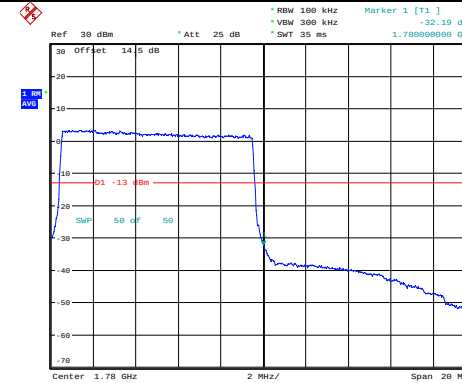
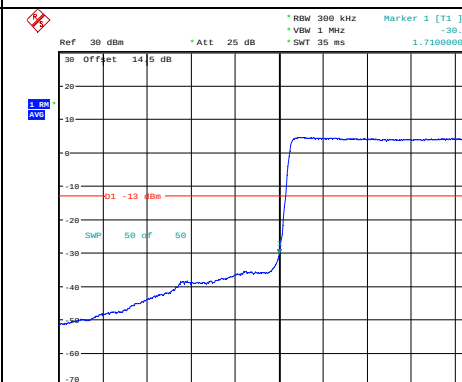
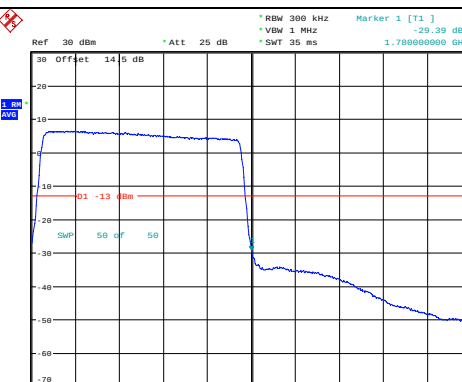
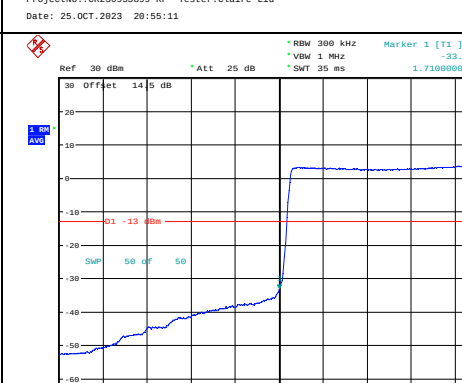
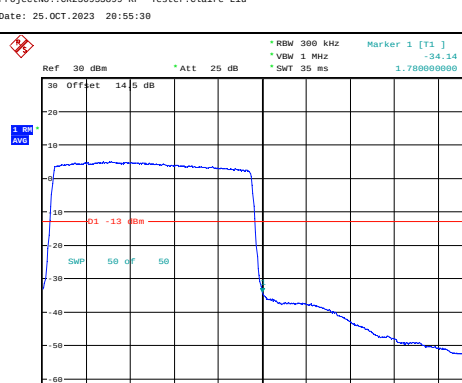
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -22.53 dBm 1.709950000 GHz Center 1.71 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:53:36	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -21.60 dBm 1.780000000 GHz Center 1.78 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:54:01
QPSK 15MHz	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -27.93 dBm 1.710000000 GHz Center 1.71 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:55:02	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -27.88 dBm 1.780000000 GHz Center 1.78 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:55:21
QPSK 20MHz	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -33.53 dBm 1.710000000 GHz Center 1.71 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:56:27	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -34.52 dBm 1.780000000 GHz Center 1.78 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:56:45

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -20.85 dBm 1.710000000 GHz Center 1.71 GHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:49:37	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -20.52 dBm 1.780000000 GHz Center 1.78 GHz 300 kHz/ Span 3 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:49:58
16QAM 3MHz	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -35.82 dBm 1.710000000 GHz Center 1.71 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:50:58	 Ref 30 dBm *Att 25 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -34.64 dBm 1.780000000 GHz Center 1.78 GHz 600 kHz/ Span 6 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:51:20
16QAM 5MHz	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -26.14 dBm 1.710000000 GHz Center 1.71 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:52:21	 Ref 30 dBm *Att 25 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -23.82 dBm 1.780000000 GHz Center 1.78 GHz 1 MHz/ Span 10 MHz ProjectNo.:CR230953899-RF Tester: Claire Liu Date: 25.OCT.2023 20:52:45

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * Marker 1 [T1] -33.12 dBm * VBW 300 kHz * SWT 35 ms 1.709950000 GHz Center 1.71 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:53:48	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * Marker 1 [T1] -32.19 dBm * VBW 300 kHz * SWT 35 ms 1.780000000 GHz Center 1.78 GHz 2 MHz/ Span 20 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:54:13
16QAM 15MHz	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -30.11 dBm * VBW 1 MHz * SWT 35 ms 1.710000000 GHz Center 1.71 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:55:11	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -29.39 dBm * VBW 1 MHz * SWT 35 ms 1.780000000 GHz Center 1.78 GHz 3 MHz/ Span 30 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:55:30
16QAM 20MHz	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -33.07 dBm * VBW 1 MHz * SWT 35 ms 1.710000000 GHz Center 1.71 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:56:36	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * Marker 1 [T1] -34.14 dBm * VBW 1 MHz * SWT 35 ms 1.780000000 GHz Center 1.78 GHz 4 MHz/ Span 40 MHz ProjectNo.:CR230953899-RF Tester:Claire Liu Date: 25.OCT.2023 20:56:55

4.17 Radiated Spurious Emissions

Serial Number:	2B7S-1	Test Date:	2023/10/5~2023/10/9
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	Carl Xue ,coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.3~26.7	Relative Humidity: (%)	56~62	ATM Pressure: (kPa)	100.3~100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/16	2024/7/15
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/2/5	2024/2/4
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5

*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (PART 22H)**GSM850:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 824.2 MHz								
716.68	H	20.84	-52.14	0.00	0.50	-52.64	-13.00	39.64
724.44	V	20.95	-48.44	0.00	0.51	-48.95	-13.00	35.95
1648.400	H	48.35	-55.98	8.68	0.80	-48.10	-13.00	35.10
1648.400	V	46.38	-58.03	8.68	0.80	-50.15	-13.00	37.15
2472.600	H	40.35	-60.43	9.38	1.00	-52.05	-13.00	39.05
2472.600	V	43.69	-57.04	9.38	1.00	-48.66	-13.00	35.66
3296.800	H	36.74	-59.94	10.32	1.15	-50.77	-13.00	37.77
3296.800	V	40.13	-56.31	10.32	1.15	-47.14	-13.00	34.14
Frequency: 836.6 MHz								
554.82	H	20.95	-53.80	0.00	0.49	-54.29	-13.00	41.29
714.36	V	20.73	-48.88	0.00	0.50	-49.38	-13.00	36.38
1673.200	H	47.62	-56.69	8.71	0.85	-48.83	-13.00	35.83
1673.200	V	47.83	-56.58	8.71	0.85	-48.72	-13.00	35.72
2509.800	H	41.26	-59.35	9.42	1.01	-50.94	-13.00	37.94
2509.800	V	42.17	-58.45	9.42	1.01	-50.04	-13.00	37.04
3346.400	H	38.67	-58.50	10.34	1.16	-49.32	-13.00	36.32
3346.400	V	37.96	-59.07	10.34	1.16	-49.89	-13.00	36.89
Frequency: 848.8 MHz								
724.43	H	20.91	-51.92	0.00	0.51	-52.43	-13.00	39.43
699.51	V	20.82	-49.11	0.00	0.55	-49.66	-13.00	36.66
1697.600	H	48.69	-55.60	8.74	0.90	-47.76	-13.00	34.76
1697.600	V	47.11	-57.31	8.74	0.90	-49.47	-13.00	36.47
2546.400	H	42.03	-58.30	9.47	1.01	-49.84	-13.00	36.84
2546.400	V	41.76	-58.52	9.47	1.01	-50.06	-13.00	37.06
3395.200	H	38.57	-59.12	10.36	1.19	-49.95	-13.00	36.95
3395.200	V	39.11	-58.55	10.36	1.19	-49.38	-13.00	36.38

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
729.44	H	20.77	-51.96	0.00	0.53	-52.49	-13.00	39.49
726.89	V	20.82	-48.51	0.00	0.52	-49.03	-13.00	36.03
1652.800	H	41.35	-62.98	8.68	0.81	-55.11	-13.00	42.11
1652.800	V	41.69	-62.72	8.68	0.81	-54.85	-13.00	41.85
2479.200	H	39.87	-60.89	9.39	1.01	-52.51	-13.00	39.51
2479.200	V	38.64	-62.09	9.39	1.01	-53.71	-13.00	40.71
3305.600	H	40.13	-56.60	10.32	1.15	-47.43	-13.00	34.43
3305.600	V	38.85	-57.65	10.32	1.15	-48.48	-13.00	35.48
WCDMA Band 5 Frequency:836.6MHz								
701.87	H	20.83	-52.45	0.00	0.55	-53.00	-13.00	40.00
716.78	V	20.87	-48.68	0.00	0.50	-49.18	-13.00	36.18
1673.200	H	42.67	-61.64	8.71	0.85	-53.78	-13.00	40.78
1673.200	V	42.03	-62.38	8.71	0.85	-54.52	-13.00	41.52
2509.800	H	38.26	-62.35	9.42	1.01	-53.94	-13.00	40.94
2509.800	V	41.36	-59.26	9.42	1.01	-50.85	-13.00	37.85
3346.400	H	39.64	-57.53	10.34	1.16	-48.35	-13.00	35.35
3346.400	V	36.75	-60.28	10.34	1.16	-51.10	-13.00	38.10
WCDMA Band 5 Frequency:846.6MHz								
711.77	H	20.74	-52.34	0.00	0.51	-52.85	-13.00	39.85
580.90	V	21.03	-50.67	0.00	0.46	-51.13	-13.00	38.13
1693.200	H	42.52	-61.78	8.73	0.89	-53.94	-13.00	40.94
1693.200	V	43.31	-61.11	8.73	0.89	-53.27	-13.00	40.27
2539.800	H	40.35	-60.03	9.46	1.01	-51.58	-13.00	38.58
2539.800	V	36.87	-63.47	9.46	1.01	-55.02	-13.00	42.02
3386.400	H	42.13	-55.46	10.35	1.18	-46.29	-13.00	33.29
3386.400	V	39.77	-57.77	10.35	1.18	-48.60	-13.00	35.60

GSM1900:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1850.2 MHz								
211.50	H	34.61	-78.05	0.00	0.26	-78.31	-13.00	65.31
42.89	V	39.72	-53.85	-22.59	0.12	-76.56	-13.00	63.56
3700.400	H	38.67	-58.65	10.60	1.25	-49.30	-13.00	36.30
3700.400	V	37.45	-59.85	10.60	1.25	-50.50	-13.00	37.50
5550.600	H	42.35	-50.91	11.44	1.49	-40.96	-13.00	27.96
5550.600	V	38.67	-54.43	11.44	1.49	-44.48	-13.00	31.48
Frequency: 1880 MHz								
208.56	H	34.57	-78.15	0.00	0.26	-78.41	-13.00	65.41
43.80	V	39.60	-55.14	-21.38	0.12	-76.64	-13.00	63.64
3760.000	H	38.69	-57.72	10.66	1.24	-48.30	-13.00	35.30
3760.000	V	37.96	-58.33	10.66	1.24	-48.91	-13.00	35.91
5640.000	H	41.35	-52.10	11.33	1.54	-42.31	-13.00	29.31
5640.000	V	38.77	-54.56	11.33	1.54	-44.77	-13.00	31.77
Frequency: 1909.8 MHz								
207.83	H	34.43	-78.30	0.00	0.26	-78.56	-13.00	65.56
45.20	V	39.41	-57.09	-19.60	0.12	-76.81	-13.00	63.81
3819.600	H	38.97	-56.89	10.72	1.29	-47.46	-13.00	34.46
3819.600	V	38.12	-57.60	10.72	1.29	-48.17	-13.00	35.17
5729.400	H	41.29	-52.19	11.22	1.59	-42.56	-13.00	29.56
5729.400	V	39.35	-54.01	11.22	1.59	-44.38	-13.00	31.38

PCS Band (PART 24E)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
207.10	H	34.89	-77.86	0.00	0.26	-78.12	-13.00	65.12
43.50	V	39.40	-54.96	-21.78	0.12	-76.86	-13.00	63.86
3704.800	H	53.08	-44.18	10.60	1.25	-34.83	-13.00	21.83
3704.800	V	55.64	-41.59	10.60	1.25	-32.24	-13.00	19.24
5557.200	H	42.29	-50.99	11.43	1.49	-41.05	-13.00	28.05
5557.200	V	43.61	-49.52	11.43	1.49	-39.58	-13.00	26.58
WCDMA Band II, Frequency:1880 MHz								
211.50	H	34.67	-77.99	0.00	0.26	-78.25	-13.00	65.25
45.21	V	39.80	-56.71	-19.59	0.12	-76.42	-13.00	63.42
3760.000	H	54.43	-41.98	10.66	1.24	-32.56	-13.00	19.56
3760.000	V	54.38	-41.91	10.66	1.24	-32.49	-13.00	19.49
5640.000	H	43.04	-50.41	11.33	1.54	-40.62	-13.00	27.62
5640.000	V	44.74	-48.59	11.33	1.54	-38.80	-13.00	25.80
WCDMA Band II, Frequency:1907.6MHz								
208.56	H	34.73	-77.99	0.00	0.26	-78.25	-13.00	65.25
66.23	V	39.53	-64.36	-7.00	0.15	-71.51	-13.00	58.51
3815.200	H	55.38	-40.47	10.72	1.29	-31.04	-13.00	18.04
3815.200	V	57.44	-38.25	10.72	1.29	-28.82	-13.00	15.82
5722.800	H	42.88	-50.61	11.23	1.58	-40.96	-13.00	27.96
5722.800	V	45.69	-47.66	11.23	1.58	-38.01	-13.00	25.01

AWS Band(Part 27)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV Frequency: 1712.4 MHz								
209.29	H	34.60	-78.11	0.00	0.26	-78.37	-13.00	65.37
70.30	V	39.79	-63.00	-4.85	0.15	-68.00	-13.00	55.00
3424.800	H	54.33	-43.44	10.37	1.17	-34.24	-13.00	21.24
3424.800	V	55.43	-42.31	10.37	1.17	-33.11	-13.00	20.11
5137.200	H	43.15	-50.47	11.28	1.46	-40.65	-13.00	27.65
5137.200	V	46.70	-46.80	11.28	1.46	-36.98	-13.00	23.98
Frequency: 1732.6 MHz								
207.83	H	34.53	-78.20	0.00	0.26	-78.46	-13.00	65.46
46.66	V	39.51	-58.43	-18.17	0.12	-76.72	-13.00	63.72
3465.200	H	52.86	-44.95	10.39	1.15	-35.71	-13.00	22.71
3465.200	V	53.56	-44.21	10.39	1.15	-34.97	-13.00	21.97
5197.800	H	43.35	-50.78	11.32	1.44	-40.90	-13.00	27.90
5197.800	V	43.83	-50.15	11.32	1.44	-40.27	-13.00	27.27
Frequency: 1752.6 MHz								
210.76	H	34.94	-77.74	0.00	0.26	-78.00	-13.00	65.00
43.65	V	39.42	-55.13	-21.58	0.12	-76.83	-13.00	63.83
3505.200	H	51.63	-46.20	10.41	1.18	-36.97	-13.00	23.97
3505.200	V	52.21	-45.56	10.41	1.18	-36.33	-13.00	23.33
5257.800	H	43.23	-50.50	11.35	1.47	-40.62	-13.00	27.62
5257.800	V	46.12	-47.39	11.35	1.47	-37.51	-13.00	24.51

LTE Bands:
(The Worst modulation and bandwidth was below)

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1850.7 MHz								
210.76	H	35.13	-77.55	0.00	0.26	-77.81	-13.00	64.81
45.69	V	39.79	-57.19	-19.12	0.12	-76.43	-13.00	63.43
3701.400	H	57.25	-40.06	10.60	1.25	-30.71	-13.00	17.71
3701.400	V	58.16	-39.13	10.60	1.25	-29.78	-13.00	16.78
5552.100	H	50.32	-42.95	11.44	1.49	-33.00	-13.00	20.00
5552.100	V	52.49	-40.61	11.44	1.49	-30.66	-13.00	17.66
QPSK,Frequency:1880 MHz								
207.97	H	34.73	-78.00	0.00	0.26	-78.26	-13.00	65.26
45.69	V	39.86	-57.12	-19.12	0.12	-76.36	-13.00	63.36
3760.000	H	57.86	-38.55	10.66	1.24	-29.13	-13.00	16.13
3760.000	V	58.67	-37.62	10.66	1.24	-28.20	-13.00	15.20
5640.000	H	49.73	-43.72	11.33	1.54	-33.93	-13.00	20.93
5640.000	V	53.64	-39.69	11.33	1.54	-29.90	-13.00	16.90
QPSK,Frequency:1909.3 MHz								
210.17	H	35.28	-77.41	0.00	0.26	-77.67	-13.00	64.67
43.66	V	39.56	-55.00	-21.57	0.12	-76.69	-13.00	63.69
3818.600	H	58.03	-37.83	10.72	1.29	-28.40	-13.00	15.40
3818.600	V	58.62	-37.09	10.72	1.29	-27.66	-13.00	14.66
5727.900	H	50.21	-43.27	11.23	1.59	-33.63	-13.00	20.63
5727.900	V	54.01	-39.35	11.23	1.59	-29.71	-13.00	16.71

LTE Band 4 (30MHz-20GHz):

EME Band 1 (Common to all)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
209.31	H	35.15	-77.56	0.00	0.26	-77.82	-13.00	64.82
44.58	V	40.22	-55.54	-20.35	0.12	-76.01	-13.00	63.01
3421.400	H	54.12	-43.64	10.37	1.17	-34.44	-13.00	21.44
3421.400	V	58.76	-38.97	10.37	1.17	-29.77	-13.00	16.77
5132.100	H	45.11	-48.46	11.28	1.47	-38.65	-13.00	25.65
5132.100	V	46.89	-46.57	11.28	1.47	-36.76	-13.00	23.76
QPSK, Frequency: 1732.5 MHz								
212.67	H	34.75	-77.89	0.00	0.27	-78.16	-13.00	65.16
43.87	V	39.81	-55.03	-21.29	0.12	-76.44	-13.00	63.44
3465.000	H	53.99	-43.82	10.39	1.15	-34.58	-13.00	21.58
3465.000	V	59.89	-37.88	10.39	1.15	-28.64	-13.00	15.64
5197.500	H	45.69	-48.44	11.32	1.44	-38.56	-13.00	25.56
5197.500	V	46.80	-47.18	11.32	1.44	-37.30	-13.00	24.30
QPSK, Frequency: 1754.3MHz								
207.12	H	34.68	-78.07	0.00	0.26	-78.33	-13.00	65.33
45.28	V	39.89	-56.69	-19.53	0.12	-76.34	-13.00	63.34
3508.600	H	54.73	-43.09	10.41	1.19	-33.87	-13.00	20.87
3508.600	V	59.53	-38.23	10.41	1.19	-29.01	-13.00	16.01
5262.900	H	45.87	-47.83	11.36	1.47	-37.94	-13.00	24.94
5262.900	V	46.79	-46.68	11.36	1.47	-36.79	-13.00	23.79

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
584.78	H	21.09	-53.07	0.00	0.46	-53.53	-13.00	40.53
727.02	V	20.76	-48.57	0.00	0.52	-49.09	-13.00	36.09
1649.400	H	40.69	-63.64	8.68	0.80	-55.76	-13.00	42.76
1649.400	V	40.08	-64.33	8.68	0.80	-56.45	-13.00	43.45
2474.100	H	38.66	-62.12	9.38	1.00	-53.74	-13.00	40.74
2474.100	V	37.84	-62.89	9.38	1.00	-54.51	-13.00	41.51
3298.800	H	37.94	-58.74	10.32	1.15	-49.57	-13.00	36.57
3298.800	V	38.36	-58.08	10.32	1.15	-48.91	-13.00	35.91
QPSK, Frequency: 836.5 MHz								
729.19	H	20.76	-51.97	0.00	0.53	-52.50	-13.00	39.50
714.40	V	20.72	-48.89	0.00	0.50	-49.39	-13.00	36.39
1673.000	H	41.56	-62.75	8.71	0.85	-54.89	-13.00	41.89
1673.000	V	40.35	-64.06	8.71	0.85	-56.20	-13.00	43.20
2509.500	H	39.87	-60.74	9.42	1.01	-52.33	-13.00	39.33
2509.500	V	37.25	-63.37	9.42	1.01	-54.96	-13.00	41.96
3346.000	H	37.42	-59.74	10.34	1.16	-50.56	-13.00	37.56
3346.000	V	36.88	-60.14	10.34	1.16	-50.96	-13.00	37.96
QPSK, Frequency: 848.3 MHz								
706.56	H	20.59	-52.60	0.00	0.54	-53.14	-13.00	40.14
576.95	V	20.85	-50.85	0.00	0.46	-51.31	-13.00	38.31
1696.600	H	41.43	-62.86	8.74	0.89	-55.01	-13.00	42.01
1696.600	V	40.76	-63.66	8.74	0.89	-55.81	-13.00	42.81
2544.900	H	39.74	-60.60	9.47	1.01	-52.14	-13.00	39.14
2544.900	V	38.59	-61.71	9.47	1.01	-53.25	-13.00	40.25
3393.200	H	36.75	-60.92	10.36	1.19	-51.75	-13.00	38.75
3393.200	V	38.49	-59.14	10.36	1.19	-49.97	-13.00	36.97

LTE Band 7:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2502.5 MHz								
210.02	H	34.65	-78.04	0.00	0.26	-78.30	-25.00	53.30
70.09	V	39.83	-62.83	-4.96	0.15	-67.94	-25.00	42.94
5005.000	H	45.37	-47.59	11.20	1.47	-37.86	-25.00	12.86
5005.000	V	46.08	-46.74	11.20	1.47	-37.01	-25.00	12.01
7507.500	H	35.79	-54.00	10.90	1.95	-45.05	-25.00	20.05
7507.500	V	36.18	-54.11	10.90	1.95	-45.16	-25.00	20.16
5MHz QPSK, Frequency: 2535 MHz								
211.50	H	34.80	-77.86	0.00	0.26	-78.12	-25.00	53.12
45.71	V	39.62	-57.38	-19.10	0.12	-76.60	-25.00	51.60
5070.000	H	44.37	-48.82	11.24	1.47	-39.05	-25.00	14.05
5070.000	V	46.60	-46.49	11.24	1.47	-36.72	-25.00	11.72
7605.000	H	37.52	-51.95	10.88	2.01	-43.08	-25.00	18.08
7605.000	V	36.95	-53.24	10.88	2.01	-44.37	-25.00	19.37
5MHz QPSK, Frequency: 2567.5 MHz								
206.38	H	36.52	-76.24	0.00	0.26	-76.50	-25.00	51.50
45.07	V	39.70	-56.67	-19.73	0.12	-76.52	-25.00	51.52
5135.000	H	44.86	-48.74	11.28	1.47	-38.93	-25.00	13.93
5135.000	V	45.79	-47.70	11.28	1.47	-37.89	-25.00	12.89
7702.500	H	36.45	-53.07	10.86	1.97	-44.18	-25.00	19.18
7702.500	V	37.13	-53.05	10.86	1.97	-44.16	-25.00	19.16

LTE Band 12:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 699.7 MHz								
564.76	H	20.46	-54.09	0.00	0.46	-54.55	-13.00	41.55
491.02	V	20.61	-51.33	0.00	0.44	-51.77	-13.00	38.77
1399.400	H	35.76	-67.94	8.22	0.71	-60.43	-13.00	47.43
1399.400	V	34.89	-68.86	8.22	0.71	-61.35	-13.00	48.35
2099.100	H	38.54	-63.34	9.16	0.91	-55.09	-13.00	42.09
2099.100	V	37.98	-63.85	9.16	0.91	-55.60	-13.00	42.60
2798.800	H	37.42	-62.51	9.88	1.04	-53.67	-13.00	40.67
2798.800	V	36.89	-62.91	9.88	1.04	-54.07	-13.00	41.07
1.4MHz QPSK, Frequency: 707.5 MHz								
508.42	H	20.51	-55.15	0.00	0.45	-55.60	-13.00	42.60
547.35	V	20.57	-51.08	0.00	0.47	-51.55	-13.00	38.55
1415.000	H	35.69	-67.98	8.26	0.72	-60.44	-13.00	47.44
1415.000	V	34.99	-68.73	8.26	0.72	-61.19	-13.00	48.19
2122.500	H	36.89	-65.10	9.17	0.92	-56.85	-13.00	43.85
2122.500	V	38.13	-63.84	9.17	0.92	-55.59	-13.00	42.59
2830.000	H	38.64	-61.16	9.93	1.06	-52.29	-13.00	39.29
2830.000	V	38.64	-61.09	9.93	1.06	-52.22	-13.00	39.22
1.4MHz QPSK, Frequency: 715.3 MHz								
618.21	H	20.54	-53.22	0.00	0.49	-53.71	-13.00	40.71
645.31	V	20.59	-50.32	0.00	0.52	-50.84	-13.00	37.84
1430.600	H	35.37	-68.26	8.31	0.73	-60.68	-13.00	47.68
1430.600	V	35.16	-68.53	8.31	0.73	-60.95	-13.00	47.95
2145.900	H	38.41	-63.69	9.19	0.93	-55.43	-13.00	42.43
2145.900	V	37.63	-64.48	9.19	0.93	-56.22	-13.00	43.22
2861.200	H	36.79	-62.86	9.98	1.07	-53.95	-13.00	40.95
2861.200	V	37.25	-62.42	9.98	1.07	-53.51	-13.00	40.51

LTE Band 17:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 706.5 MHz								
501.45	H	20.68	-55.12	0.00	0.45	-55.57	-13.00	42.57
605.88	V	20.70	-50.92	0.00	0.49	-51.41	-13.00	38.41
1413.000	H	35.79	-67.88	8.26	0.72	-60.34	-13.00	47.34
1413.000	V	36.08	-67.64	8.26	0.72	-60.10	-13.00	47.10
2119.500	H	38.65	-63.32	9.17	0.92	-55.07	-13.00	42.07
2119.500	V	37.85	-64.10	9.17	0.92	-55.85	-13.00	42.85
2826.000	H	36.57	-63.24	9.92	1.06	-54.38	-13.00	41.38
2826.000	V	37.41	-62.33	9.92	1.06	-53.47	-13.00	40.47
5MHz QPSK, Frequency: 710 MHz								
574.86	H	20.52	-53.84	0.00	0.46	-54.30	-13.00	41.30
528.51	V	20.56	-51.06	0.00	0.44	-51.50	-13.00	38.50
1420.000	H	36.24	-67.42	8.28	0.73	-59.87	-13.00	46.87
1420.000	V	37.64	-66.07	8.28	0.73	-58.52	-13.00	45.52
2130.000	H	39.64	-62.38	9.18	0.92	-54.12	-13.00	41.12
2130.000	V	38.97	-63.04	9.18	0.92	-54.78	-13.00	41.78
2840.000	H	37.65	-62.10	9.94	1.06	-53.22	-13.00	40.22
2840.000	V	37.48	-62.23	9.94	1.06	-53.35	-13.00	40.35
5MHz QPSK, Frequency: 713.5 MHz								
549.27	H	20.49	-54.37	0.00	0.47	-54.84	-13.00	41.84
589.19	V	20.63	-51.08	0.00	0.48	-51.56	-13.00	38.56
1427.000	H	37.89	-65.75	8.30	0.73	-58.18	-13.00	45.18
1427.000	V	38.43	-65.26	8.30	0.73	-57.69	-13.00	44.69
2140.500	H	40.65	-61.42	9.18	0.93	-53.17	-13.00	40.17
2140.500	V	39.75	-62.33	9.18	0.93	-54.08	-13.00	41.08
2854.000	H	35.63	-64.06	9.97	1.07	-55.16	-13.00	42.16
2854.000	V	34.95	-64.73	9.97	1.07	-55.83	-13.00	42.83

LTE Band 25:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1850.7 MHz								
207.85	H	34.54	-78.19	0.00	0.26	-78.45	-13.00	65.45
45.37	V	39.43	-57.23	-19.44	0.12	-76.79	-13.00	63.79
3700.800	H	53.76	-43.56	10.60	1.25	-34.21	-13.00	21.21
3700.800	V	54.03	-43.27	10.60	1.25	-33.92	-13.00	20.92
5551.200	H	40.59	-52.67	11.44	1.49	-42.72	-13.00	29.72
5551.200	V	42.31	-50.79	11.44	1.49	-40.84	-13.00	27.84
1.4MHz QPSK, Frequency: 1882.5 MHz								
205.67	H	34.43	-78.35	0.00	0.26	-78.61	-13.00	65.61
42.90	V	39.63	-53.95	-22.57	0.12	-76.64	-13.00	63.64
3765.000	H	54.23	-42.10	10.67	1.25	-32.68	-13.00	19.68
3765.000	V	54.39	-41.82	10.67	1.25	-32.40	-13.00	19.40
5647.500	H	41.39	-52.06	11.32	1.55	-42.29	-13.00	29.29
5647.500	V	43.69	-49.64	11.32	1.55	-39.87	-13.00	26.87
1.4MHz QPSK, Frequency: 1914.3 MHz								
210.78	H	34.61	-78.07	0.00	0.26	-78.33	-13.00	65.33
66.26	V	39.87	-64.01	-6.98	0.15	-71.14	-13.00	58.14
3828.600	H	54.62	-41.28	10.73	1.28	-31.83	-13.00	18.83
3828.600	V	54.29	-41.48	10.73	1.28	-32.03	-13.00	19.03
5742.900	H	41.47	-52.01	11.21	1.60	-42.40	-13.00	29.40
5742.900	V	42.83	-50.53	11.21	1.60	-40.92	-13.00	27.92

LTE Band 26:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 814.7 MHz								
726.87	H	20.83	-51.95	0.00	0.52	-52.47	-13.00	39.47
714.40	V	20.75	-48.86	0.00	0.50	-49.36	-13.00	36.36
1629.400	H	38.98	-65.37	8.66	0.81	-57.52	-13.00	44.52
1629.400	V	38.81	-65.60	8.66	0.81	-57.75	-13.00	44.75
2444.100	H	35.64	-65.25	9.37	1.00	-56.88	-13.00	43.88
2444.100	V	35.29	-65.46	9.37	1.00	-57.09	-13.00	44.09
3258.800	H	37.56	-59.30	10.30	1.17	-50.17	-13.00	37.17
3258.800	V	37.43	-59.18	10.30	1.17	-50.05	-13.00	37.05
1.4MHz QPSK, Frequency: 831.5 MHz								
631.84	H	20.74	-52.95	0.00	0.49	-53.44	-13.00	40.44
732.13	V	21.04	-48.18	0.00	0.53	-48.71	-13.00	35.71
1663.000	H	39.12	-65.20	8.70	0.83	-57.33	-13.00	44.33
1663.000	V	38.69	-65.72	8.70	0.83	-57.85	-13.00	44.85
2494.500	H	35.52	-65.18	9.40	1.01	-56.79	-13.00	43.79
2494.500	V	35.33	-65.38	9.40	1.01	-56.99	-13.00	43.99
3326.000	H	37.34	-59.61	10.33	1.16	-50.44	-13.00	37.44
3326.000	V	38.02	-58.75	10.33	1.16	-49.58	-13.00	36.58
1.4MHz QPSK, Frequency: 848.3 MHz								
706.79	H	20.76	-52.42	0.00	0.54	-52.96	-13.00	39.96
684.99	V	20.71	-49.48	0.00	0.53	-50.01	-13.00	37.01
1696.600	H	38.69	-65.60	8.74	0.89	-57.75	-13.00	44.75
1696.600	V	38.57	-65.85	8.74	0.89	-58.00	-13.00	45.00
2544.900	H	34.97	-65.37	9.47	1.01	-56.91	-13.00	43.91
2544.900	V	35.07	-65.23	9.47	1.01	-56.77	-13.00	43.77
3393.200	H	38.12	-59.55	10.36	1.19	-50.38	-13.00	37.38
3393.200	V	37.66	-59.97	10.36	1.19	-50.80	-13.00	37.80

LTE Band 38:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2572.5 MHz								
206.39	H	34.58	-78.18	0.00	0.26	-78.44	-25.00	53.44
45.21	V	39.80	-56.71	-19.59	0.12	-76.42	-25.00	51.42
5145.000	H	45.37	-48.31	11.29	1.44	-38.46	-25.00	13.46
5145.000	V	45.71	-47.86	11.29	1.44	-38.01	-25.00	13.01
7717.500	H	34.79	-54.72	10.86	1.99	-45.85	-25.00	20.85
7717.500	V	35.07	-55.06	10.86	1.99	-46.19	-25.00	21.19
5MHz QPSK, Frequency: 2595 MHz								
211.52	H	34.63	-78.03	0.00	0.26	-78.29	-25.00	53.29
70.80	V	39.74	-63.35	-4.60	0.15	-68.10	-25.00	43.10
5190.000	H	44.65	-49.42	11.31	1.44	-39.55	-25.00	14.55
5190.000	V	44.16	-49.76	11.31	1.44	-39.89	-25.00	14.89
7785.000	H	35.12	-54.37	10.84	1.99	-45.52	-25.00	20.52
7785.000	V	34.79	-55.13	10.84	1.99	-46.28	-25.00	21.28
5MHz QPSK, Frequency: 2617.5 MHz								
204.95	H	34.73	-78.06	0.00	0.26	-78.32	-25.00	53.32
47.25	V	39.46	-59.06	-17.60	0.12	-76.78	-25.00	51.78
5235.000	H	44.78	-49.12	11.34	1.46	-39.24	-25.00	14.24
5235.000	V	45.12	-48.59	11.34	1.46	-38.71	-25.00	13.71
7852.500	H	35.13	-54.06	10.83	2.03	-45.26	-25.00	20.26
7852.500	V	35.27	-54.31	10.83	2.03	-45.51	-25.00	20.51

LTE Band 41(2535- 2655 MHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2537.5 MHz								
208.50	H	34.80	-77.92	0.00	0.26	-78.18	-25.00	53.18
45.85	V	40.12	-57.02	-18.97	0.12	-76.11	-25.00	51.11
5070.000	H	45.32	-47.87	11.24	1.47	-38.10	-25.00	13.10
5070.000	V	45.76	-47.33	11.24	1.47	-37.56	-25.00	12.56
7605.000	H	35.28	-54.19	10.88	2.01	-45.32	-25.00	20.32
7605.000	V	35.34	-54.85	10.88	2.01	-45.98	-25.00	20.98
5MHz QPSK, Frequency: 2595 MHz								
207.12	H	34.69	-78.06	0.00	0.26	-78.32	-25.00	53.32
44.90	V	39.89	-56.28	-19.93	0.12	-76.33	-25.00	51.33
5186.000	H	44.93	-49.10	11.31	1.44	-39.23	-25.00	14.23
5186.000	V	45.27	-48.62	11.31	1.44	-38.75	-25.00	13.75
7779.000	H	35.11	-54.38	10.84	1.99	-45.53	-25.00	20.53
7779.000	V	35.07	-54.87	10.84	1.99	-46.02	-25.00	21.02
5MHz QPSK, Frequency: 2652.5 MHz								
210.04	H	34.56	-78.13	0.00	0.26	-78.39	-25.00	53.39
48.49	V	39.50	-60.24	-16.38	0.12	-76.74	-25.00	51.74
5310.000	H	44.83	-48.61	11.39	1.46	-38.68	-25.00	13.68
5310.000	V	45.07	-48.14	11.39	1.46	-38.21	-25.00	13.21
7965.000	H	35.23	-53.12	10.81	2.09	-44.40	-25.00	19.40
7965.000	V	35.41	-53.40	10.81	2.09	-44.68	-25.00	19.68

LTE Band 66:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
212.24	H	34.89	-77.76	0.00	0.26	-78.02	-13.00	65.02
45.21	V	39.43	-57.08	-19.59	0.12	-76.79	-13.00	63.79
3421.400	H	58.63	-39.13	10.37	1.17	-29.93	-13.00	16.93
3421.400	V	57.49	-40.24	10.37	1.17	-31.04	-13.00	18.04
5132.100	H	44.76	-48.81	11.28	1.47	-39.00	-13.00	26.00
5132.100	V	44.82	-48.64	11.28	1.47	-38.83	-13.00	25.83
1.4MHz QPSK, Frequency: 1745 MHz								
209.29	H	34.71	-78.00	0.00	0.26	-78.26	-13.00	65.26
44.12	V	39.68	-55.48	-20.96	0.12	-76.56	-13.00	63.56
3490.000	H	59.23	-38.61	10.40	1.17	-29.38	-13.00	16.38
3490.000	V	52.59	-45.19	10.40	1.17	-35.96	-13.00	22.96
5235.000	H	44.28	-49.62	11.34	1.46	-39.74	-13.00	26.74
5235.000	V	44.73	-48.98	11.34	1.46	-39.10	-13.00	26.10
1.4MHz QPSK, Frequency: 1779.3 MHz								
207.10	H	34.84	-77.91	0.00	0.26	-78.17	-13.00	65.17
46.17	V	39.26	-58.19	-18.65	0.12	-76.96	-13.00	63.96
3558.600	H	58.67	-39.00	10.46	1.22	-29.76	-13.00	16.76
3558.600	V	55.49	-42.08	10.46	1.22	-32.84	-13.00	19.84
5337.900	H	43.76	-49.71	11.40	1.47	-39.78	-13.00	26.78
5337.900	V	44.09	-49.24	11.40	1.47	-39.31	-13.00	26.31

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

5. EUT PHOTOGRAPHS

Please refer to the attachment CR230953899-EXP EUT EXTERNAL PHOTOGRAPHS and
CR230953899-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230953899-00G-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT =====