

**Test Data:**

<b>FCC §2.1046; §27.50(d)(4)</b>						
<b>RF Output Power:</b>						
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	19.11	20.97	21.84	24.78	30
	RB1#3	19.34	21.22	21.98		
	RB1#5	19.17	21.02	21.84		
	RB3#0	19.08	20.97	21.71		
	RB3#3	19.09	20.98	21.69		
	RB6#0	18.25	20.09	20.95		
1.4MHz 16QAM	RB1#0	18.06	19.83	20.65	23.6	30
	RB1#3	18.3	20.1	20.8		
	RB1#5	18.12	19.92	20.66		
	RB3#0	17.91	19.96	20.72		
	RB3#3	17.99	19.93	20.72		
	RB6#0	17.12	18.92	19.8		
3MHz QPSK	RB1#0	19.12	20.96	21.89	24.69	30
	RB1#8	19.21	21.02	21.89		
	RB1#14	19.28	21.02	21.89		
	RB6#0	18.12	19.93	20.86		
	RB6#9	18.25	20	20.88		
	RB15#0	18.07	19.92	20.69		
3MHz 16QAM	RB1#0	18.39	19.96	20.69	23.51	30
	RB1#8	18.48	20.02	20.71		
	RB1#14	18.58	20.06	20.7		
	RB6#0	17.03	18.86	19.67		
	RB6#9	17.14	18.96	19.68		
	RB15#0	17.01	18.8	19.6		
5MHz QPSK	RB1#0	19.49	20.83	21.67	24.65	30
	RB1#13	19.33	21.04	21.85		
	RB1#24	19.35	21.04	21.73		
	RB15#0	18.14	19.97	20.74		
	RB15#10	18.26	19.95	20.74		
	RB25#0	18.13	19.89	20.68		
5MHz 16QAM	RB1#0	17.79	19.98	20.59	23.54	30
	RB1#13	18.09	20.19	20.74		
	RB1#24	18.15	20.13	20.65		
	RB15#0	17.05	18.84	19.59		
	RB15#10	17.17	18.84	19.58		
	RB25#0	17.06	18.82	19.54		

10MHz QPSK	RB1#0	19.14	20.8	21.78	24.77	30
	RB1#25	19.65	21.12	21.97		
	RB1#49	19.77	21.2	21.9		
	RB25#0	18.19	19.88	20.76		
	RB25#25	18.57	20.03	20.75		
	RB50#0	18.36	19.96	20.69		
10MHz 16QAM	RB1#0	18.4	19.83	20.6	23.58	30
	RB1#25	18.87	20.17	20.78		
	RB1#49	19.09	20.16	20.68		
	RB25#0	17.15	18.84	19.66		
	RB25#25	17.48	18.95	19.63		
	RB50#0	17.25	18.83	19.55		
15MHz QPSK	RB1#0	19.07	20.64	21.6	24.6	30
	RB1#38	19.67	21.05	21.79		
	RB1#74	19.99	21.22	21.8		
	RB36#0	18.46	19.97	20.82		
	RB36#39	19.01	20.2	20.85		
	RB75#0	18.73	20.09	20.82		
15MHz 16QAM	RB1#0	18.05	19.87	20.85	23.83	30
	RB1#38	18.66	20.24	21.01		
	RB1#74	19.02	20.37	21.03		
	RB36#0	17.35	18.84	19.7		
	RB36#39	17.93	19.07	19.72		
	RB75#0	17.64	18.96	19.69		
20MHz QPSK	RB1#0	18.89	20.39	21.26	24.64	30
	RB1#50	19.98	21.2	21.84		
	RB1#99	20.12	21.14	21.58		
	RB50#0	18.36	19.86	20.61		
	RB50#50	19.14	20.03	20.59		
	RB100#0	18.77	19.92	20.58		
20MHz 16QAM	RB1#0	18.04	19.47	20.55	23.92	30
	RB1#50	19.06	20.24	21.12		
	RB1#99	19.24	20.18	20.83		
	RB50#0	17.26	18.76	19.46		
	RB50#50	18.01	18.96	19.43		
	RB100#0	17.71	18.87	19.51		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

**Result:** **Pass**

<b>Peak-to-average Ratio(PAR)</b>					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	3.77	3.8	3.77	13
	RB100#0	3.45	3.48	3.33	13
20MHz 16QAM	RB1#0	4.78	4.46	4.58	13
	RB100#0	5.13	5.22	4.96	13
<b>Result:</b>					<b>Pass</b>

<b>FCC §2.1049, §27.53:Occupied Bandwidth</b>						
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	1.102	1.102	1.126	1.362	1.308	2.022
1.4MHz 16QAM	1.102	1.102	1.114	1.302	1.296	1.686
3MHz QPSK	2.695	2.683	2.695	2.916	2.988	2.964
3MHz 16QAM	2.683	2.683	2.683	2.88	2.916	2.976
5MHz QPSK	4.531	4.531	4.531	5.32	5.26	5.9
5MHz 16QAM	4.551	4.551	4.571	5.24	5.18	5.88
10MHz QPSK	9.022	8.942	9.022	10.64	9.92	11.16
10MHz 16QAM	8.982	8.942	8.982	9.92	9.92	10.04
15MHz QPSK	13.593	13.533	13.533	15.54	15.24	16.74
15MHz 16QAM	13.593	13.533	13.653	15.3	15.12	15.72
20MHz QPSK	18.044	18.044	18.044	26.16	20	20.72
20MHz 16QAM	18.044	17.964	18.044	20.08	20	19.84

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

<b>FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

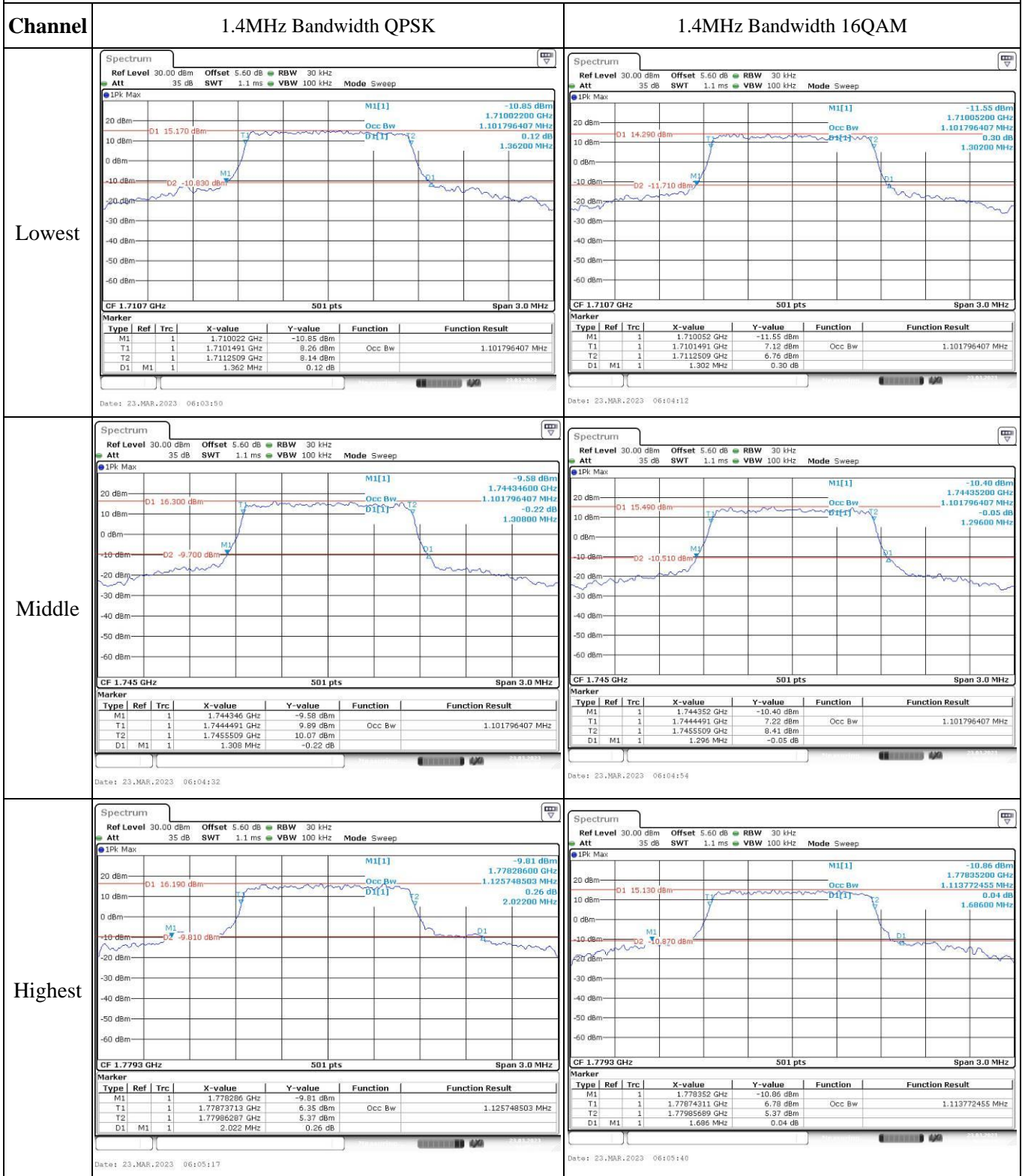
<b>FCC §2.1051, §27.53:Out of band emission, Band Edge</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>

<b>FCC §2.1055, §27.54: Frequency Stability</b>						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.057	1710.00	1779.099	1780
	-20	3.8	1711.040	1710.00	1779.056	1780
	-10	3.8	1711.092	1710.00	1779.023	1780
	0	3.8	1711.063	1710.00	1779.081	1780
	10	3.8	1711.094	1710.00	1779.046	1780
	20	3.8	1711.058	1710.00	1779.022	1780
	30	3.8	1711.042	1710.00	1779.018	1780
	40	3.8	1711.033	1710.00	1779.015	1780
	50	3.8	1711.022	1710.00	1779.024	1780
Frequency Stability vs. Voltage	20	3.3	1711.080	1710.00	1779.030	1780
	20	4.3	1711.045	1710.00	1779.012	1780
					<b>Result:</b>	<b>Pass</b>

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.020	1710.00	1779.005	1780
	-20	3.8	1711.056	1710.00	1779.073	1780
	-10	3.8	1711.094	1710.00	1779.057	1780
	0	3.8	1711.064	1710.00	1779.001	1780
	10	3.8	1711.028	1710.00	1779.066	1780
	20	3.8	1710.978	1710.00	1779.022	1780
	30	3.8	1710.973	1710.00	1779.011	1780
	40	3.8	1710.959	1710.00	1779.012	1780
	50	3.8	1710.939	1710.00	1779.024	1780
Frequency Stability vs. Voltage	20	3.3	1710.983	1710.00	1779.014	1780
	20	4.3	1710.970	1710.00	1779.008	1780
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 5.6dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



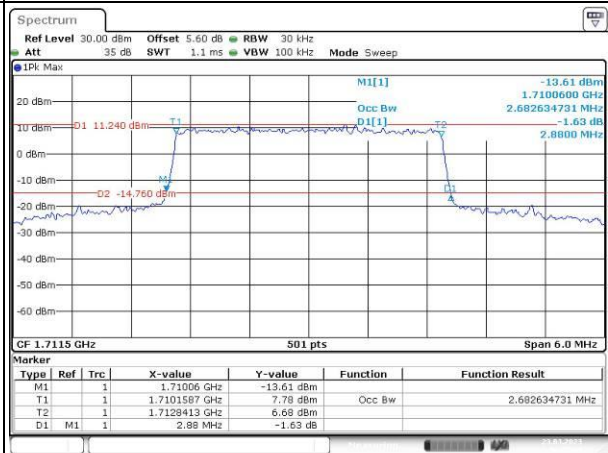
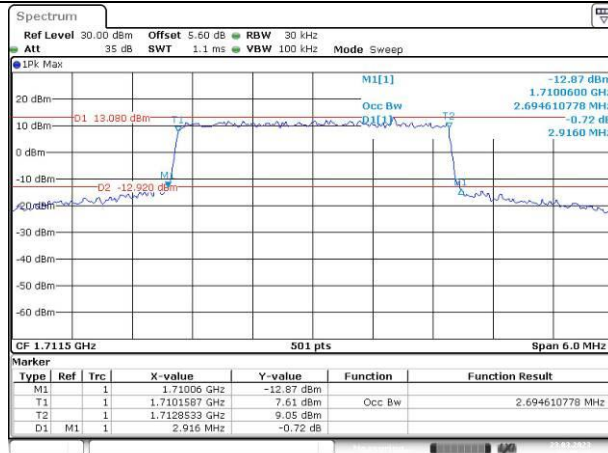
### Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

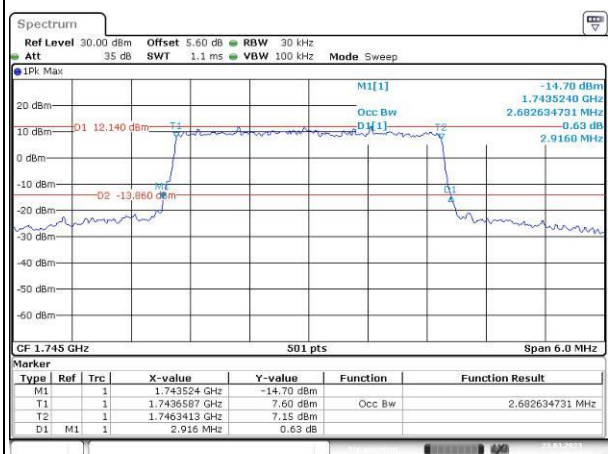
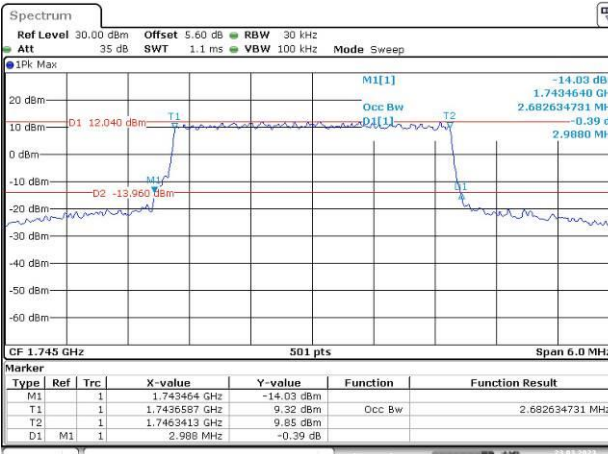
Lowest



Date: 23.MAR.2023 06:07:37

Date: 23.MAR.2023 06:07:55

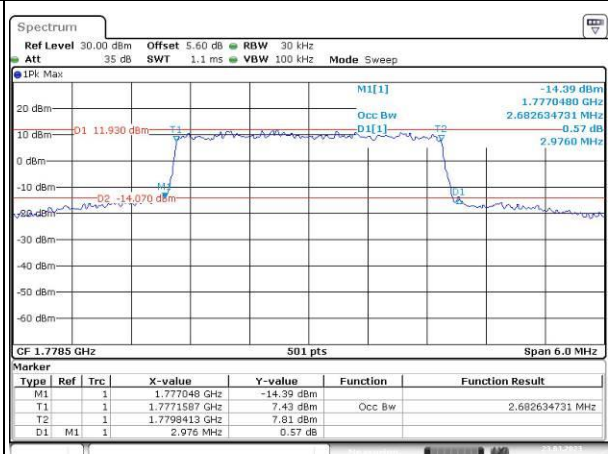
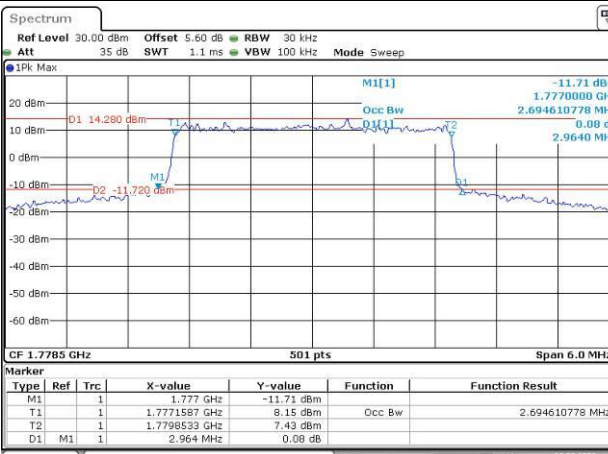
Middle



Date: 23.MAR.2023 06:10:15

Date: 23.MAR.2023 06:10:37

Highest

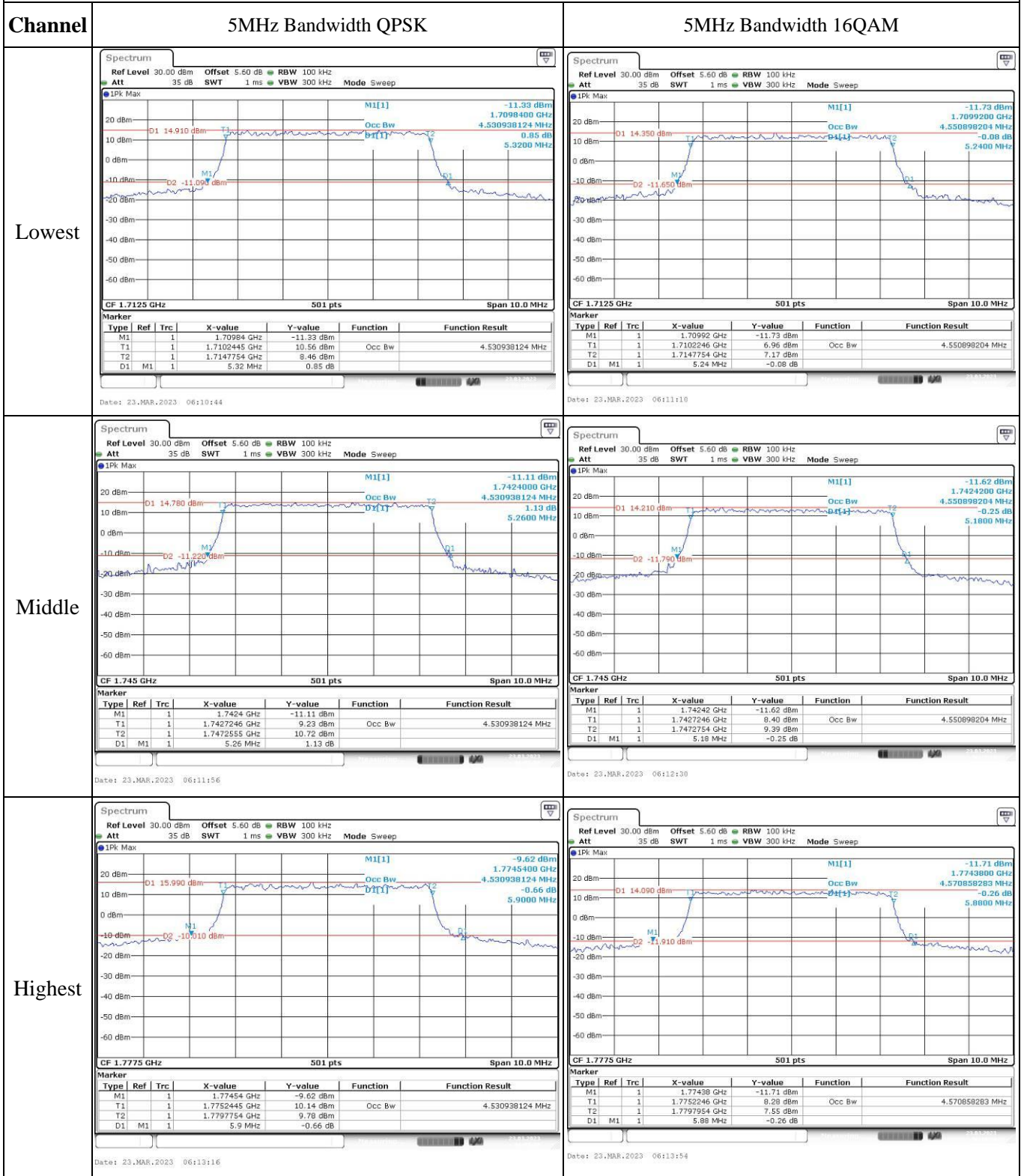


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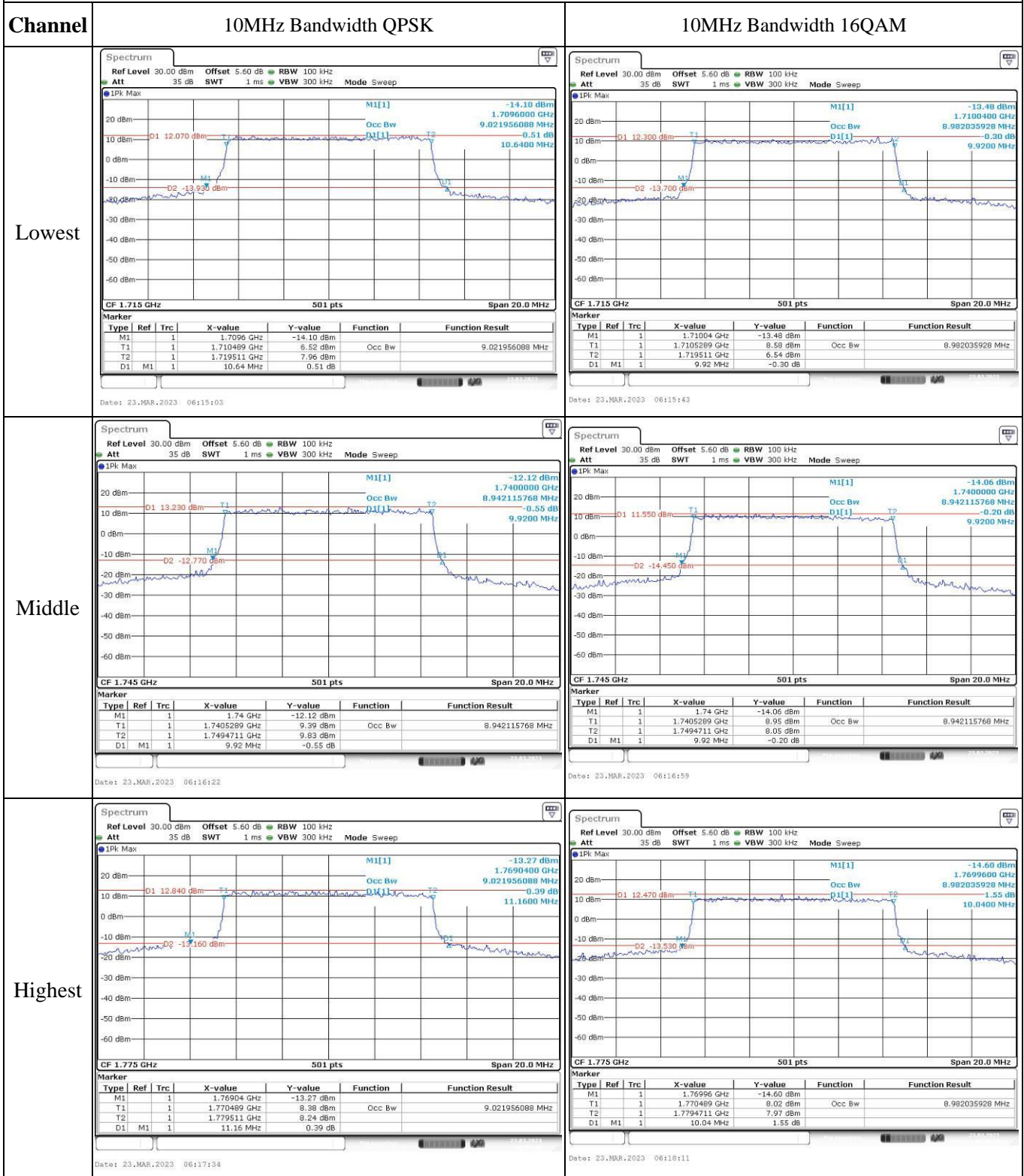
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### Occupied Bandwidth



### Occupied Bandwidth





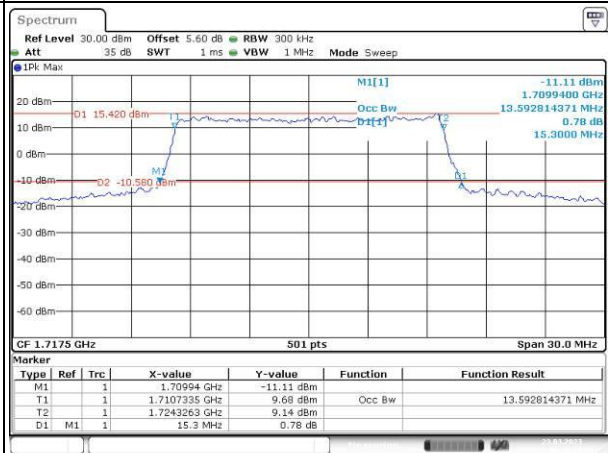
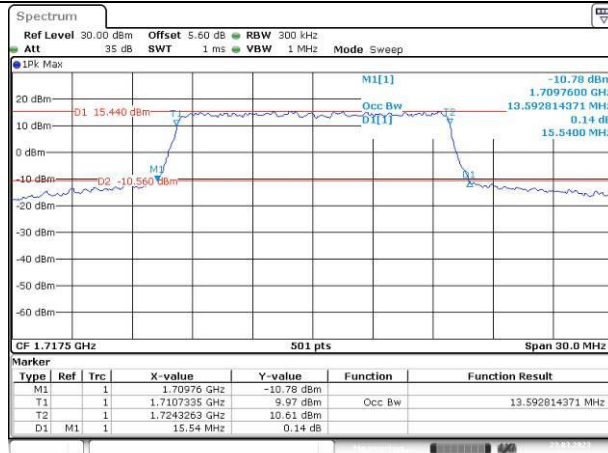
### Occupied Bandwidth

Channel

15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

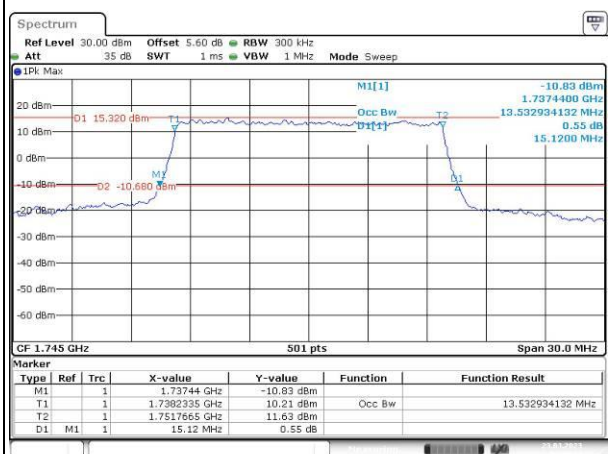
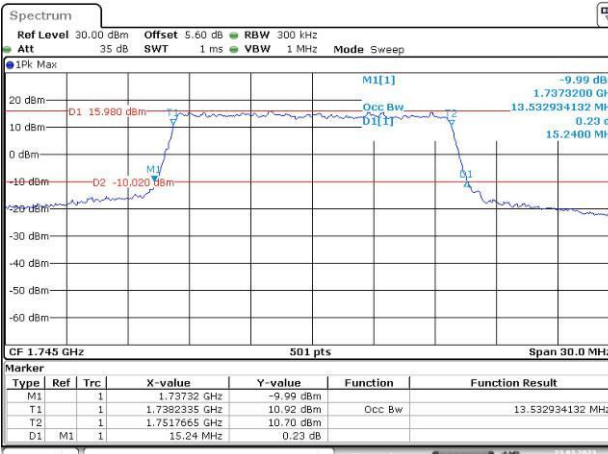
Lowest



Date: 23.MAR.2023 06:19:14

Date: 23.MAR.2023 06:19:41

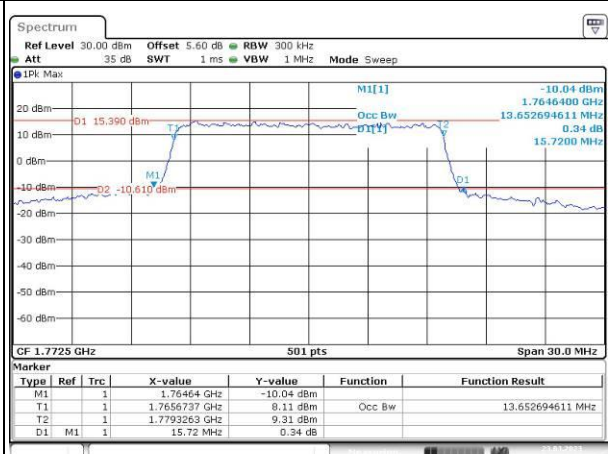
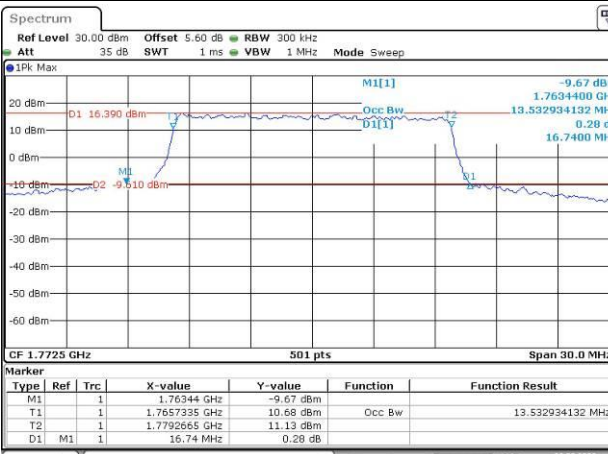
Middle



Date: 23.MAR.2023 06:12:06

Date: 23.MAR.2023 06:12:34

Highest



Date: 23.MAR.2023 06:12:10

Date: 23.MAR.2023 06:12:33

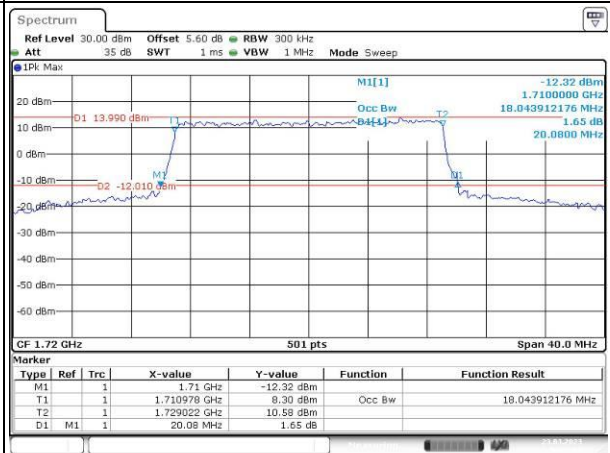
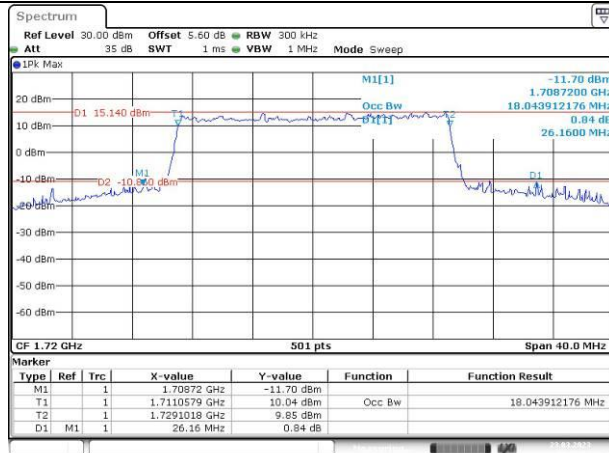
### Occupied Bandwidth

Channel

20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

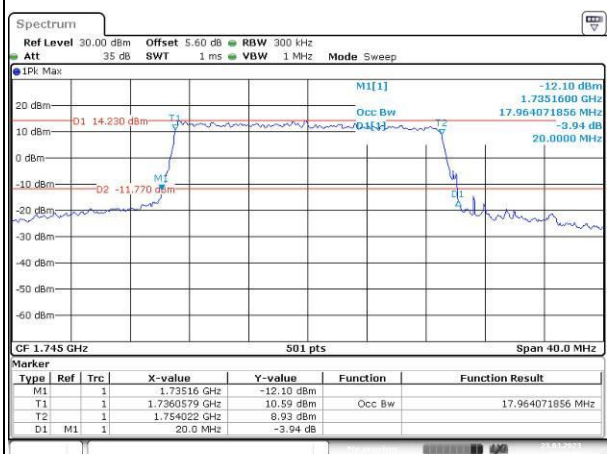
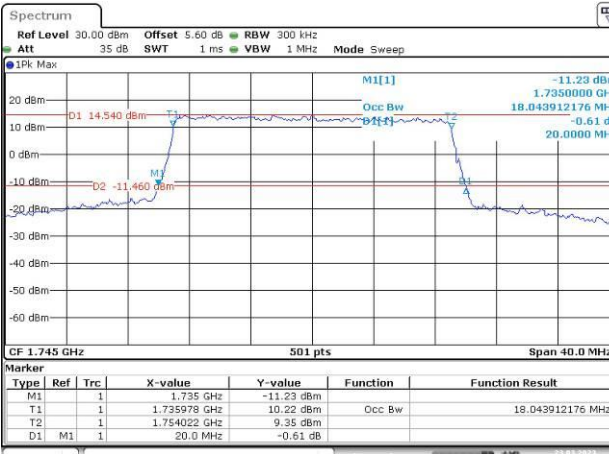
Lowest



Date: 23.MAR.2023 06:22:32

Date: 23.MAR.2023 06:23:03

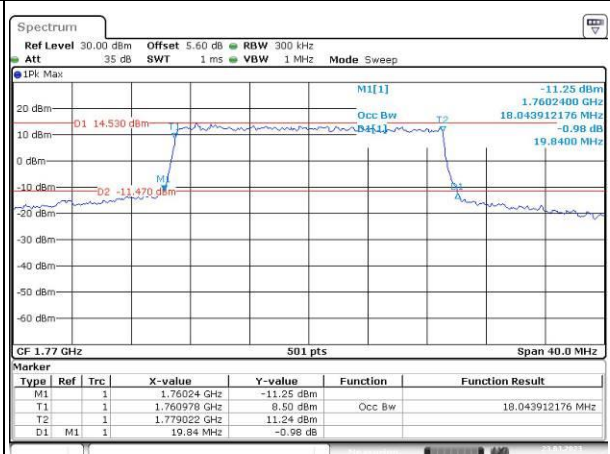
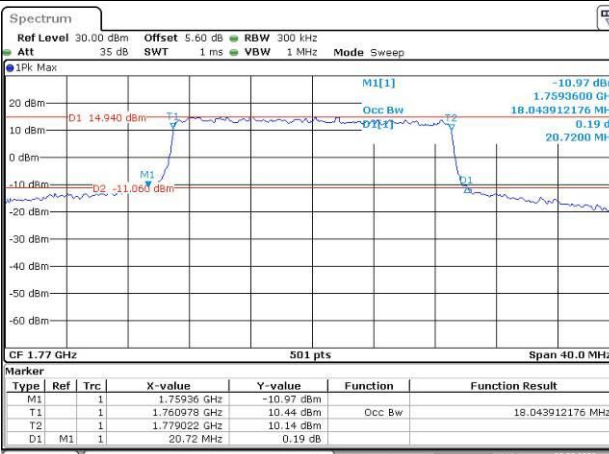
Middle



Date: 23.MAR.2023 06:23:31

Date: 23.MAR.2023 06:24:02

Highest



Date: 23.MAR.2023 06:24:31

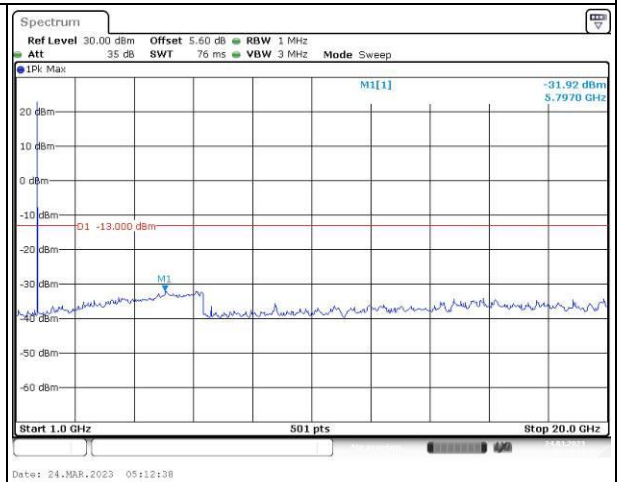
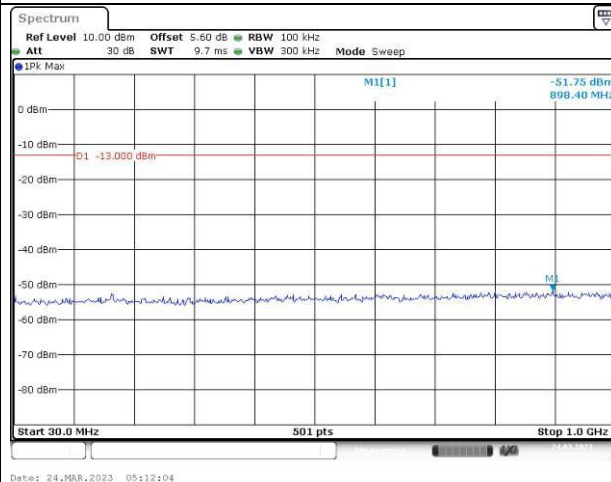
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### Spurious Emissions at Antenna Terminal

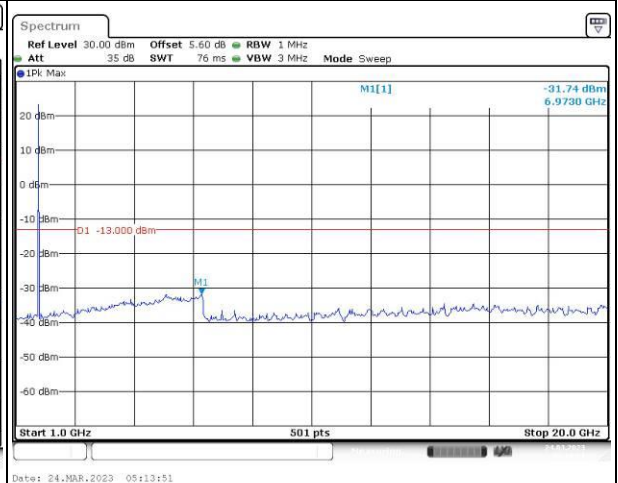
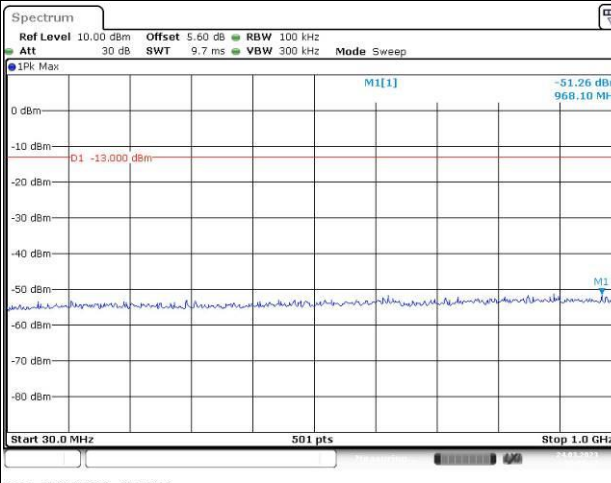
Channel

1.4MHz Bandwidth QPSK

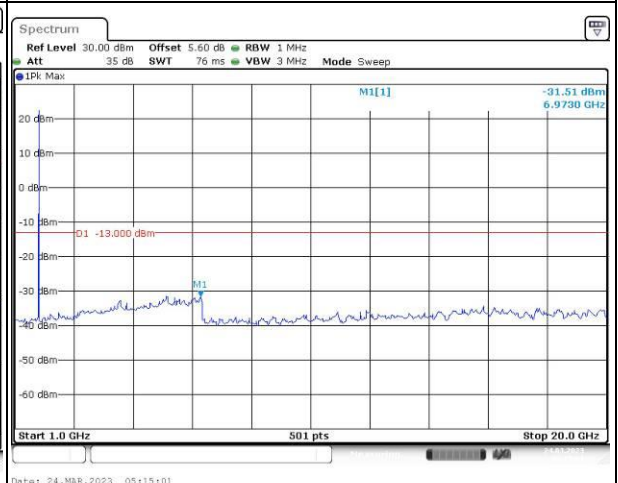
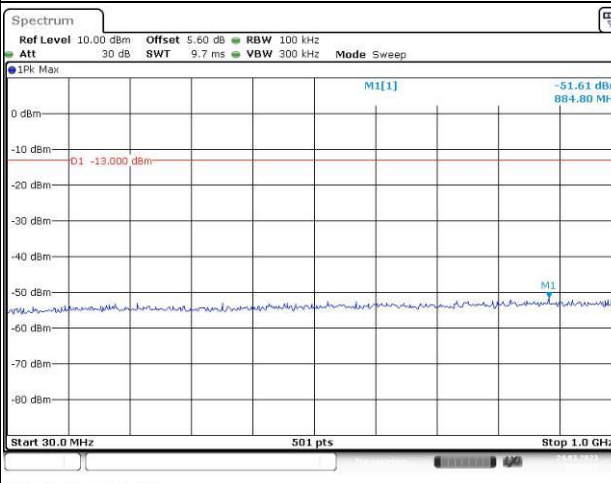
Lowest



Middle



Highest

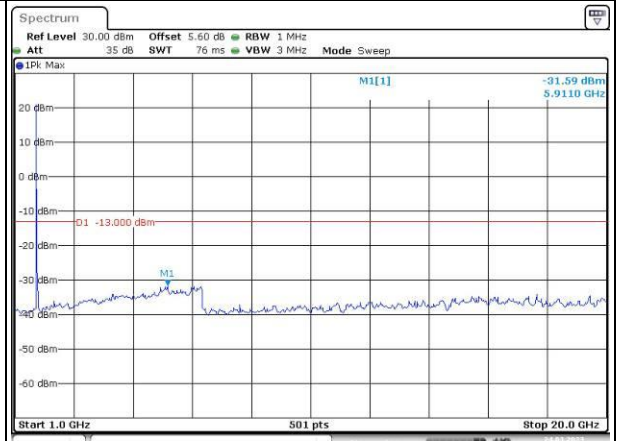
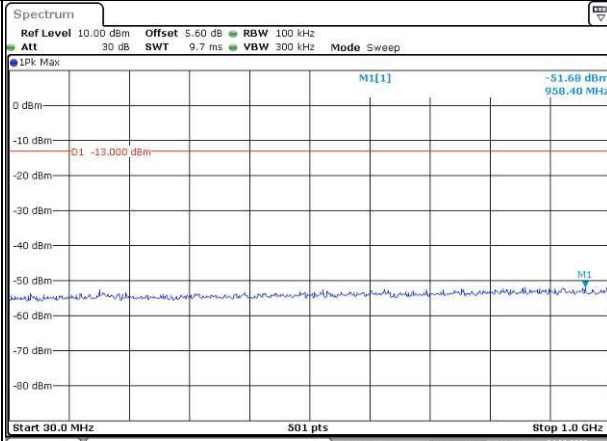


### Spurious Emissions at Antenna Terminal

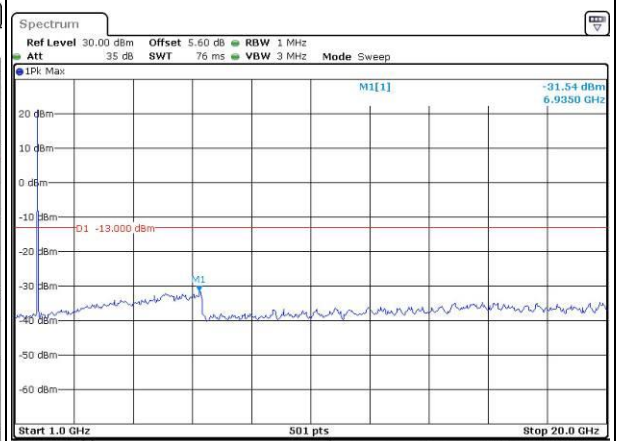
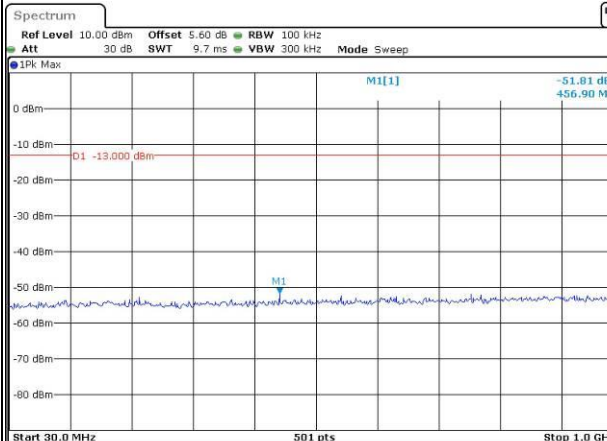
Channel

3MHz Bandwidth QPSK

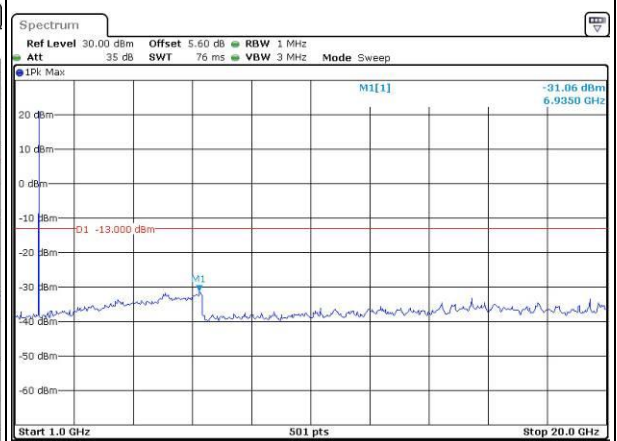
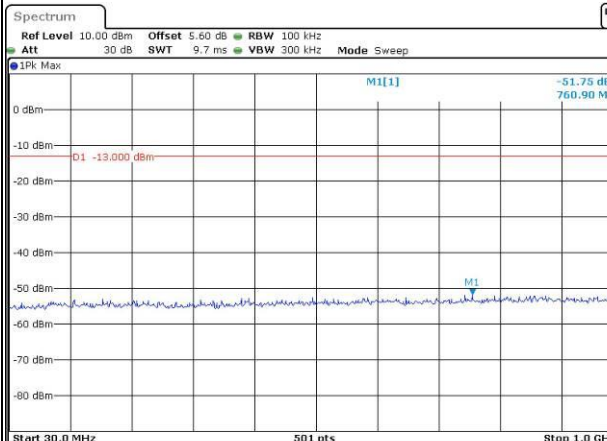
Lowest



Middle



Highest



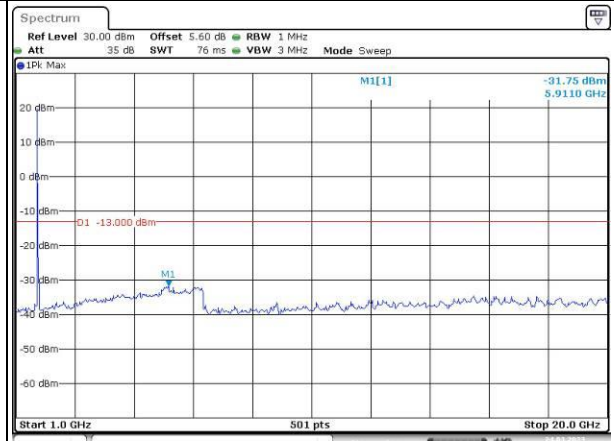
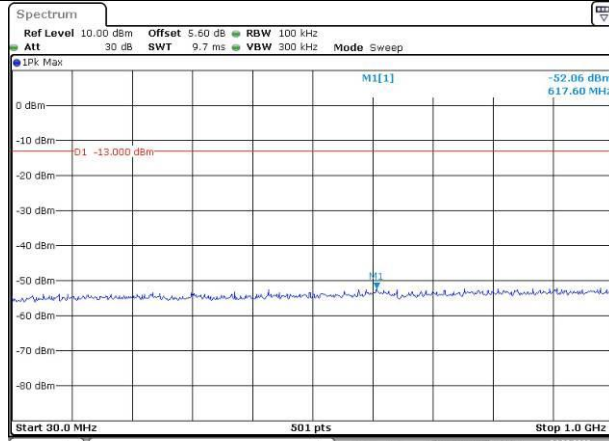


### Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

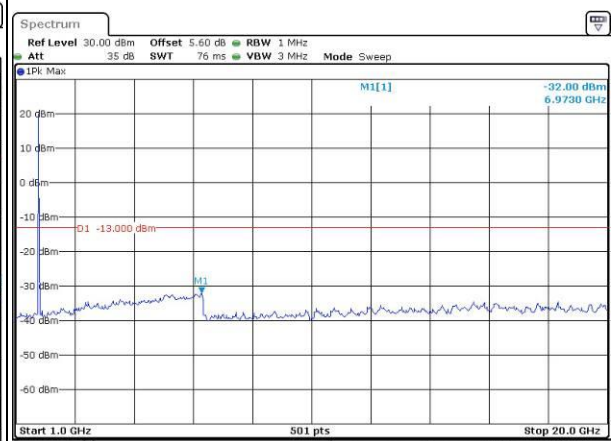
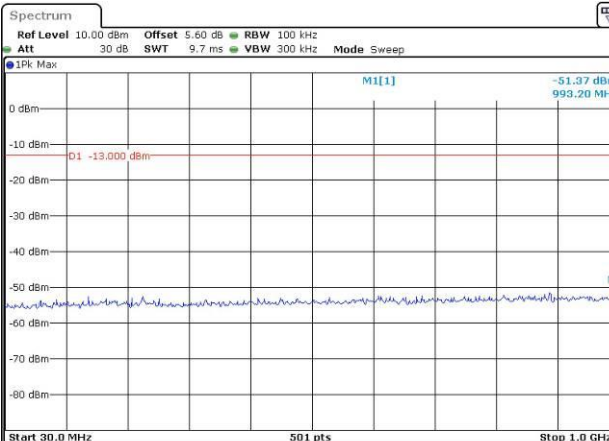
Lowest



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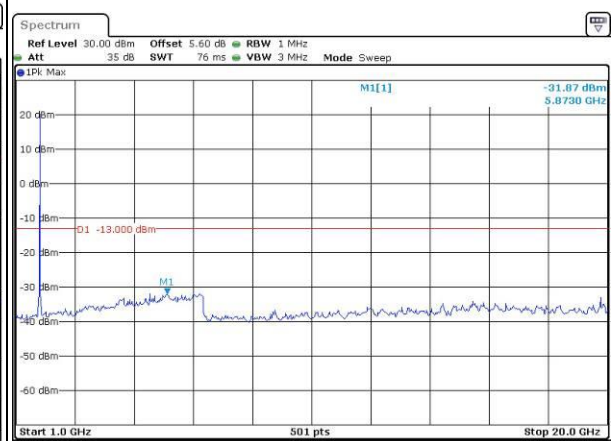
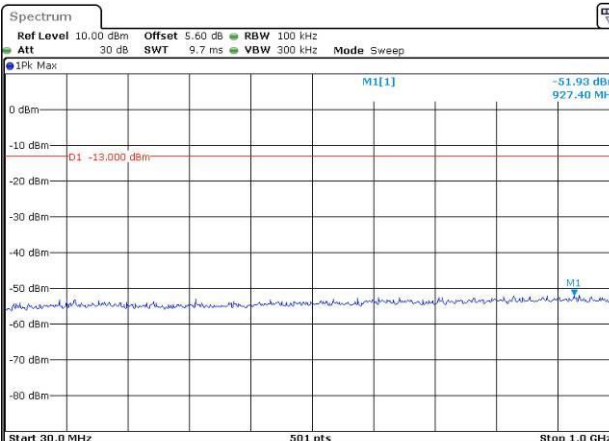
Middle



Date: 24.MAR.2023 05:21:06

Date: 24.MAR.2023 05:21:36

Highest



Date: 24.MAR.2023 05:22:09

Date: 24.MAR.2023 05:22:38

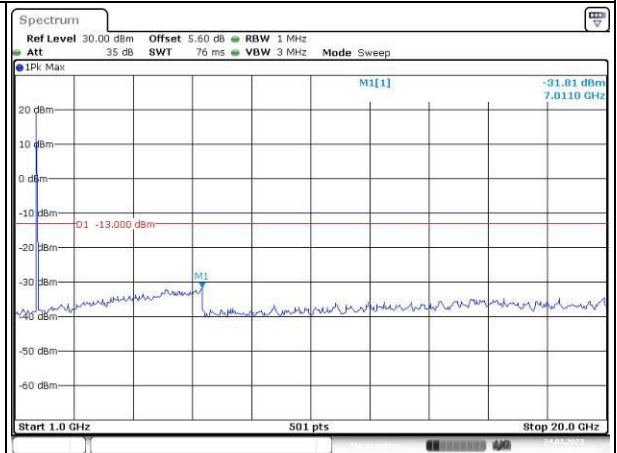
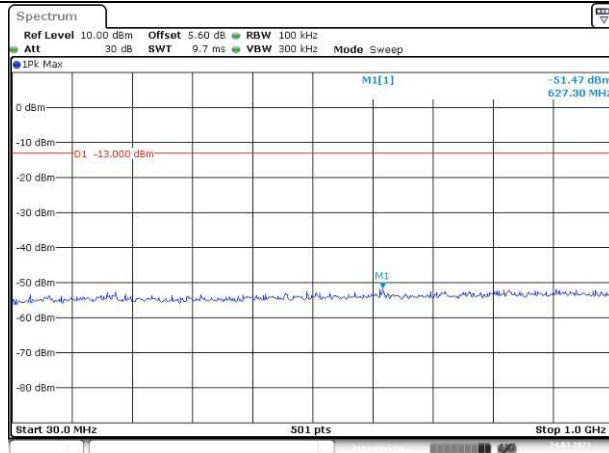


Spurious Emissions at Antenna Terminal

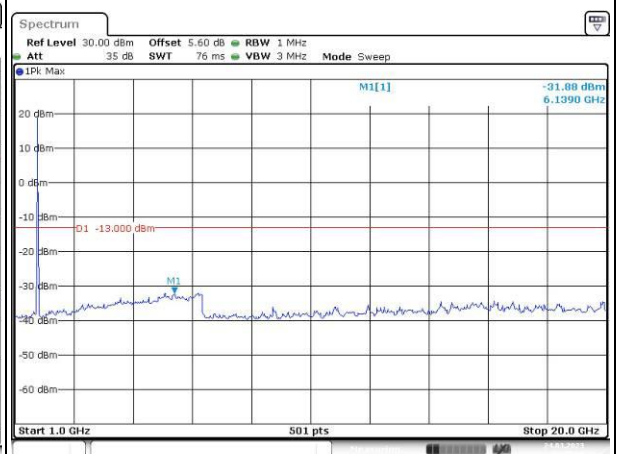
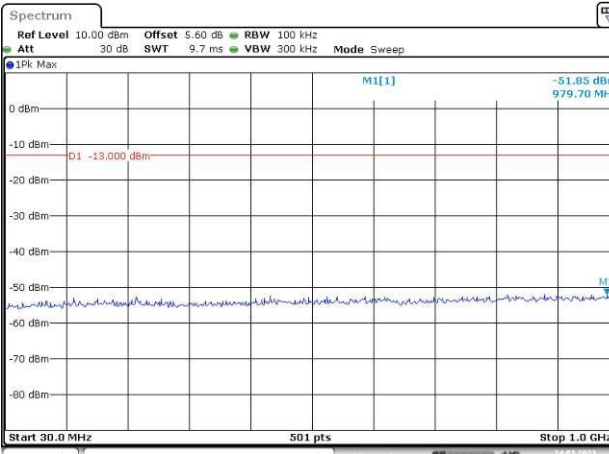
Channel

10MHz Bandwidth QPSK

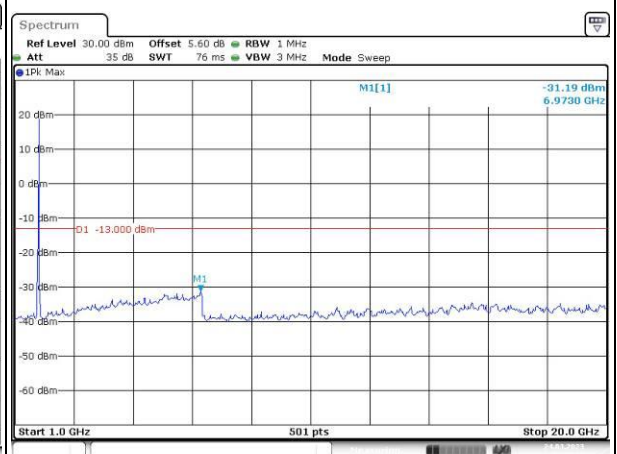
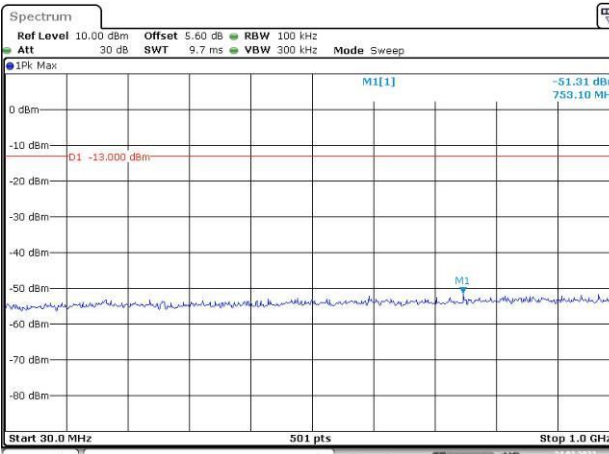
Lowest



Middle



Highest

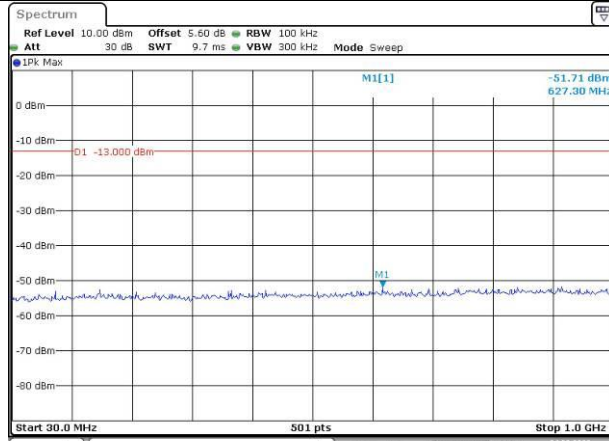


### Spurious Emissions at Antenna Terminal

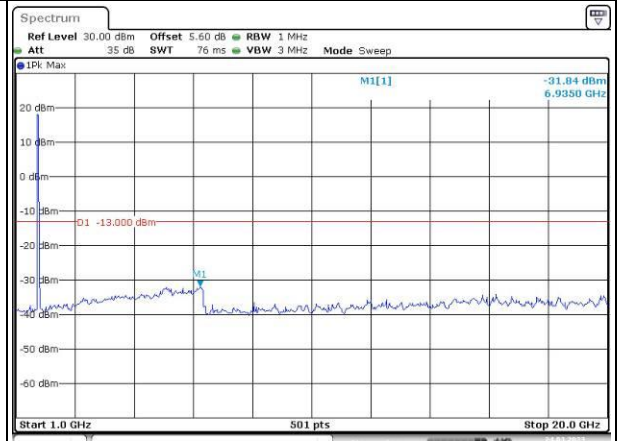
Channel

15MHz Bandwidth QPSK

Lowest

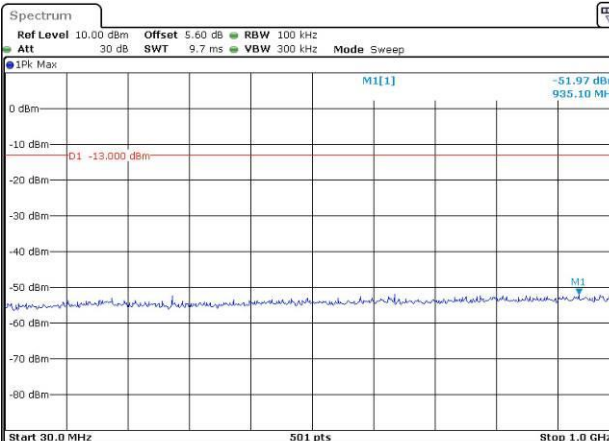


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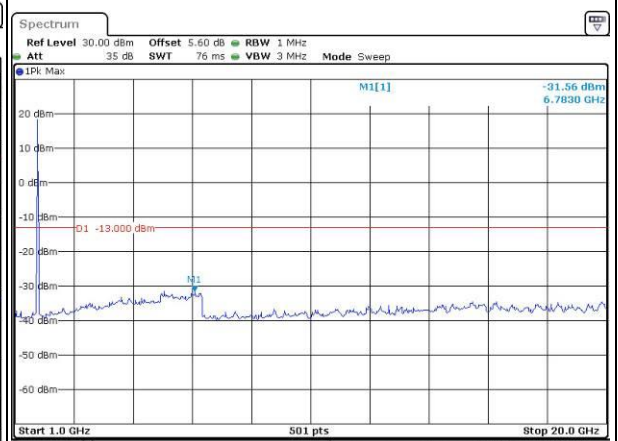


Date: 24.MAR.2023 05:27:50

Middle

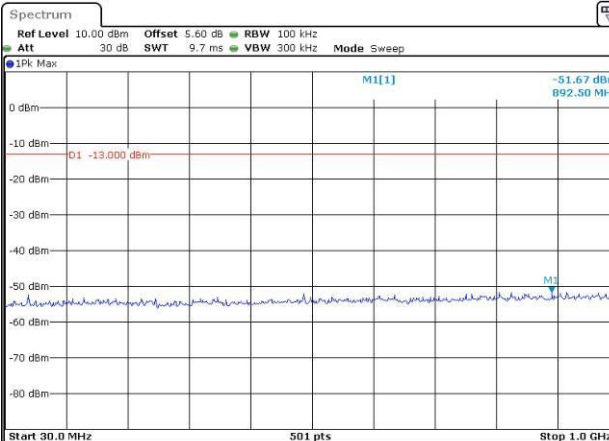


Date: 24.MAR.2023 05:28:19

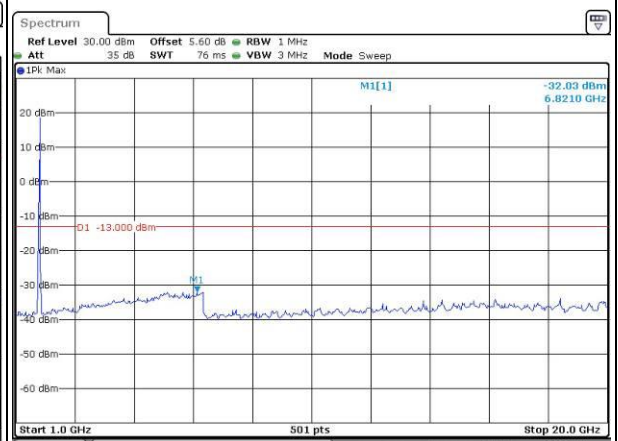


Date: 24.MAR.2023 05:28:53

Highest



Date: 24.MAR.2023 05:29:30



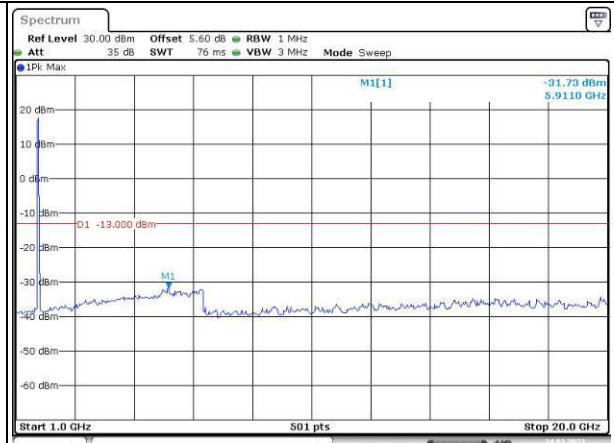
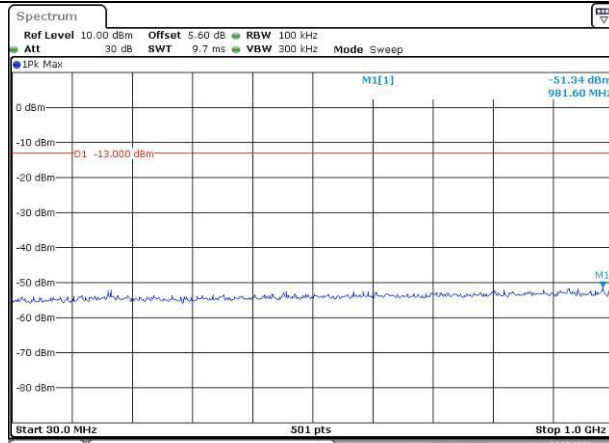
Date: 24.MAR.2023 05:30:15

Spurious Emissions at Antenna Terminal

Channel

20MHz Bandwidth QPSK

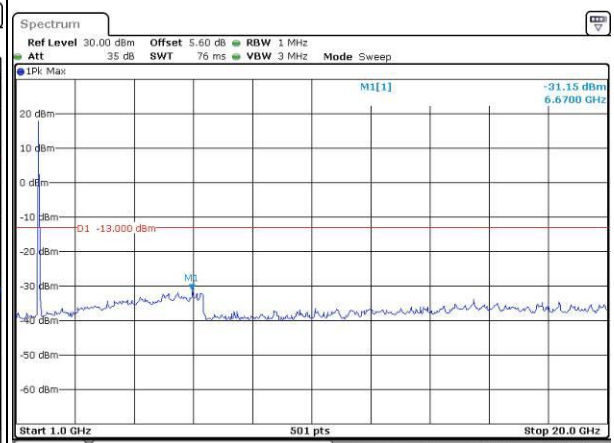
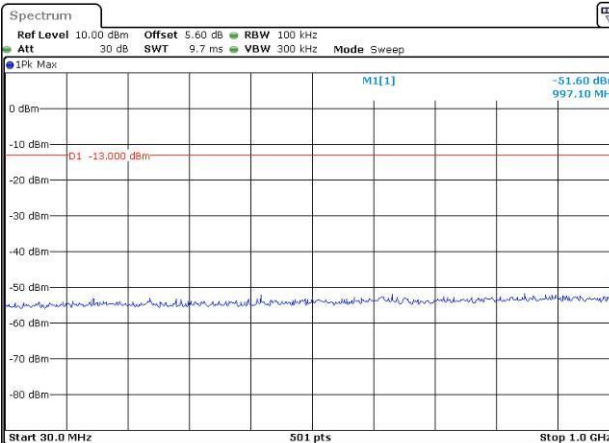
Lowest



Date: 24.MAR.2023 05:31:41

Date: 24.MAR.2023 05:32:15

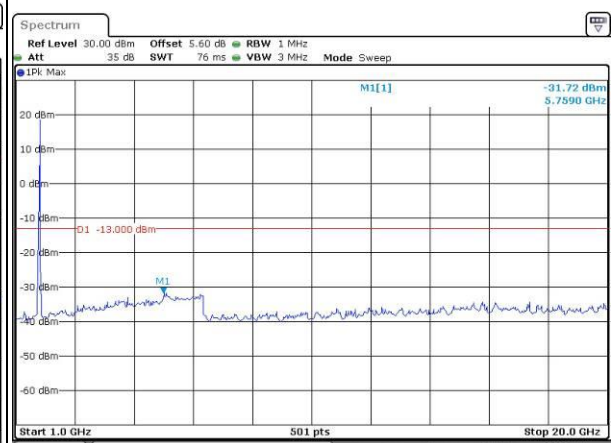
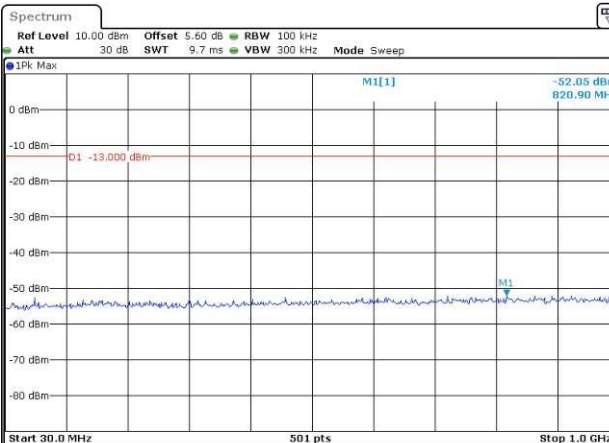
Middle



Date: 24.MAR.2023 05:32:49

Date: 24.MAR.2023 05:33:11

Highest



Date: 24.MAR.2023 05:33:52

Date: 24.MAR.2023 05:34:10

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr M1[1] -19.09 dBm 1.70996410 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 30.MAR.2023 11:16:28</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr M1[1] -16.88 dBm 1.78003590 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 30.MAR.2023 11:16:41</p>
QPSK 3MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr M1[1] -22.71 dBm 1.7098440 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 30.MAR.2023 11:17:19</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr M1[1] -20.86 dBm 1.7800600 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 30.MAR.2023 11:17:32</p>
QPSK 5MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr M1[1] -20.21 dBm 1.7099000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 30.MAR.2023 11:23:03</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr M1[1] -19.05 dBm 1.7800200 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 30.MAR.2023 11:23:17</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz		
QPSK 15MHz		
QPSK 20MHz		



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -21.81 dBm 1.70997600 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 30.MAR.2023 11:16:34</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -19.03 dBm 1.78003590 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 30.MAR.2023 11:16:47</p>
16QAM 3MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -25.47 dBm 1.7099760 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 30.MAR.2023 11:17:25</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -24.25 dBm 1.7800480 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 30.MAR.2023 11:17:38</p>
16QAM 5MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -23.41 dBm 1.7100000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 30.MAR.2023 11:23:10</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -21.50 dBm 1.7800200 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 30.MAR.2023 11:23:23</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

**4.17 Antenna Port Test Data and Results for LTE Band 71**

Serial Number:	2205	Test Date:	2023/3/22~2023/3/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	24.1~25.3	Relative Humidity: (%)	41~56	ATM Pressure: (kPa)	100.1~101.6
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/4/6	2023/4/5
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
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	665.5	680.5	695.5
10MHz	668	680.5	693
15MHz	670.5	680.5	690.5
20MHz	673	680.5	688

**Test Data:****FCC §2.1046; §27.50(c) (10)****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.61	23.68	24.12	20.87	34.77
	RB1#13	23.7	23.88	24.35		
	RB1#24	23.71	23.87	24.33		
	RB15#0	22.88	23.17	23.37		
	RB15#10	22.49	22.79	23.28		
	RB25#0	22.69	22.91	23.29		
5MHz 16QAM	RB1#0	22.88	22.79	23.25	20	34.77
	RB1#13	23.01	23	23.43		
	RB1#24	23.1	23	23.48		
	RB15#0	21.78	22.12	22.38		
	RB15#10	21.37	21.73	22.26		
	RB25#0	21.58	21.92	22.31		
10MHz QPSK	RB1#0	23.64	23.71	24.13	20.95	34.77
	RB1#25	23.86	24	24.39		
	RB1#49	23.9	24.09	24.43		
	RB25#0	23.31	23.2	23.04		
	RB25#25	23.2	22.85	23.24		
	RB50#0	23.2	23.02	23.17		
10MHz 16QAM	RB1#0	22.72	22.83	23.23	20.09	34.77
	RB1#25	23.18	23.15	23.46		
	RB1#49	23.1	23.22	23.57		
	RB25#0	22.23	22.15	22.05		
	RB25#25	22.26	21.82	22.19		
	RB50#0	22.17	22.02	22.12		
15MHz QPSK	RB1#0	23.53	23.67	23.81	20.89	34.77
	RB1#38	23.77	23.87	24.22		
	RB1#74	23.74	24.13	24.37		
	RB36#0	22.97	22.87	22.9		
	RB36#39	23.21	22.91	23.36		
	RB75#0	23.16	22.89	23.1		
15MHz 16QAM	RB1#0	22.82	22.74	23	20.22	34.77
	RB1#38	23.7	23	23.31		
	RB1#74	23.12	23.33	23.51		
	RB36#0	22	21.83	21.98		
	RB36#39	22.18	21.98	22.31		
	RB75#0	22.08	21.87	22.14		
20MHz QPSK	RB1#0	23.31	23.46	23.4	20.69	34.77
	RB1#50	24.02	23.94	24.14		

	RB1#99	23.78	24.02	24.17		
	RB50#0	23.02	22.57	23.17		
	RB50#50	22.62	23.03	23.38		
	RB100#0	22.74	22.76	23.27		
20MHz 16QAM	RB1#0	22.57	23.3	22.99	20.54	34.77
	RB1#50	23.42	23.54	24.02		
	RB1#99	23.09	23.64	23.77		
	RB50#0	22.01	21.48	22.11		
	RB50#50	21.55	22.01	22.34		
	RB100#0	21.67	21.67	22.24		

Note:

ERP= Conducted Power(dBm) - L<sub>c</sub>(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15

Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)

**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	5.07	7.45	5.42	13
	RB100#0	4.84	4.84	4.96	13
20MHz 16QAM	RB1#0	5.62	8.41	6.46	13
	RB100#0	6.23	6.2	6.29	13

**Result:****Pass****FCC §2.1049, §27.53:Occupied Bandwidth**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.511	4.551	4.511	5.12	5.96	5.14
5MHz 16QAM	4.491	4.591	4.531	5.08	6.08	5.16
10MHz QPSK	9.022	8.982	8.942	9.92	9.8	9.76
10MHz 16QAM	9.022	8.982	8.942	9.96	9.76	9.8
15MHz QPSK	13.593	13.473	13.533	15.18	15.24	15.18
15MHz 16QAM	13.713	13.473	13.533	15.06	14.94	15
20MHz QPSK	17.964	17.884	18.044	19.44	20.4	20
20MHz 16QAM	17.964	17.884	17.964	19.68	20	19.84

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



<b>FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

<b>FCC §2.1051, §27.53:Out of band emission, Band Edge</b>	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>

<b>FCC §2.1055, §27.54: Frequency Stability</b>						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	663.486	663.00	697.698	698.00
	-20	3.8	663.479	663.00	697.696	698.00
	-10	3.8	663.413	663.00	697.641	698.00
	0	3.8	663.493	663.00	697.616	698.00
	10	3.8	663.483	663.00	697.662	698.00
	20	3.8	663.458	663.00	697.622	698.00
	30	3.8	663.435	663.00	697.609	698.00
	40	3.8	663.415	663.00	697.642	698.00
Frequency Stability vs. Voltage	20	3.3	663.491	663.00	697.661	698.00
	20	4.3	663.424	663.00	697.619	698.00
					<b>Result:</b>	<b>Pass</b>

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature(°C)	Voltage(V <sub>DC</sub> )	Lower Edge(MHz)		Upper Edge(MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	663.495	663.00	697.632	698.00
	-20	3.8	663.491	663.00	697.630	698.00
	-10	3.8	663.485	663.00	697.630	698.00
	0	3.8	663.480	663.00	697.624	698.00
	10	3.8	663.479	663.00	697.623	698.00
	20	3.8	663.478	663.00	697.622	698.00
	30	3.8	663.454	663.00	697.619	698.00
	40	3.8	663.445	663.00	697.659	698.00
	50	3.8	663.434	663.00	697.616	698.00
Frequency Stability vs. Voltage	20	3.3	663.477	663.00	697.662	698.00
	20	4.3	663.476	663.00	697.621	698.00
					<b>Result:</b>	<b>Pass</b>