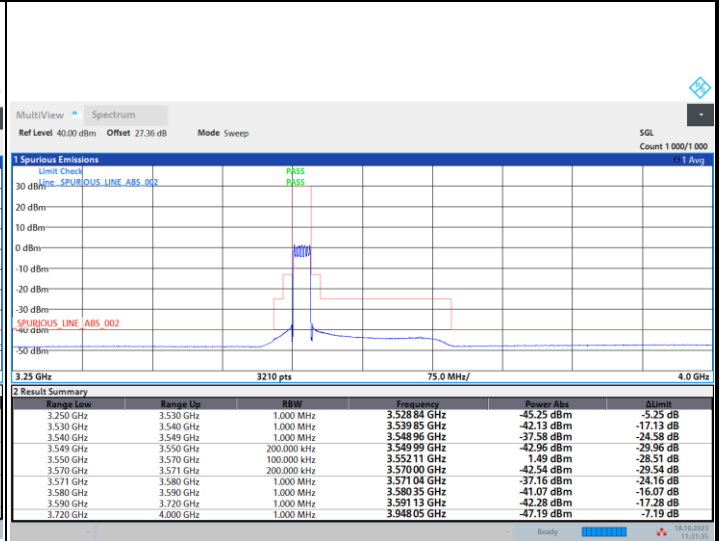
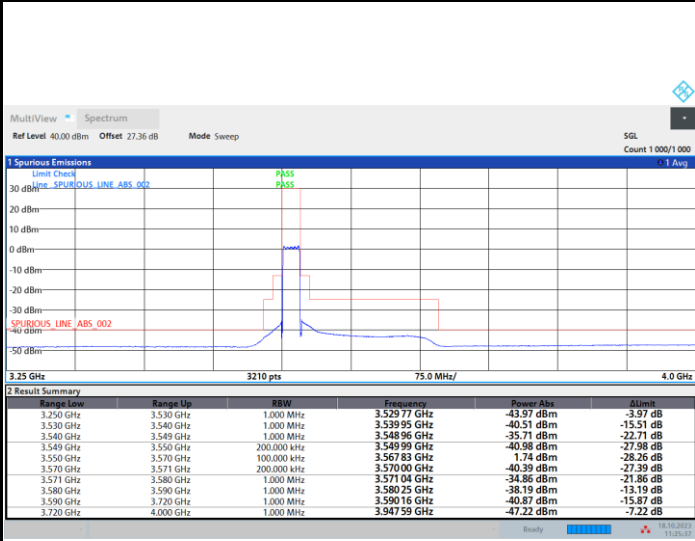




FR1 n48 / 20MHz / Lowest Channel / MASK

QPSK

16QAM

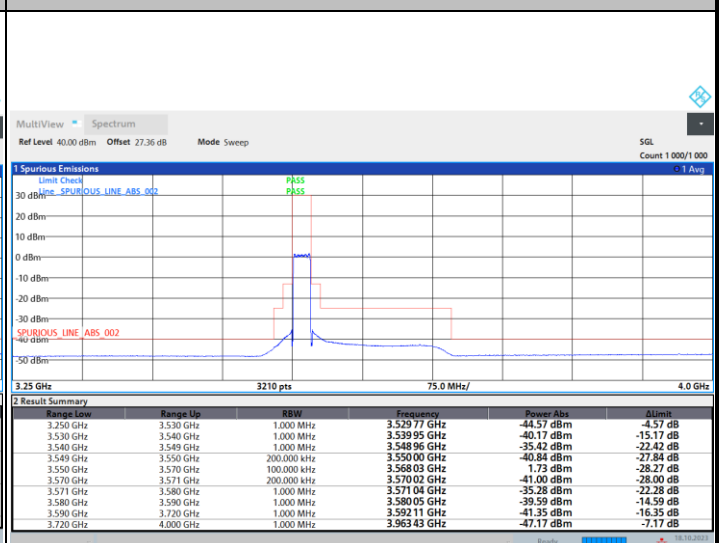
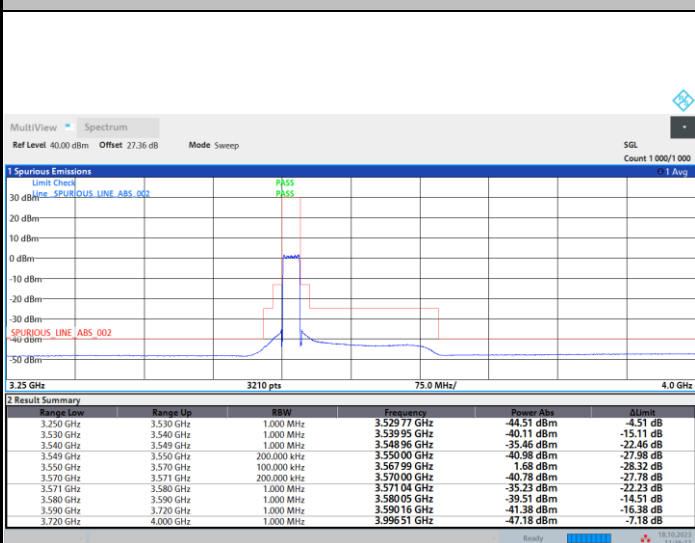


11:25:37 18.10.2023

11:31:35 18.10.2023

64QAM

256QAM



11:36:13 18.10.2023

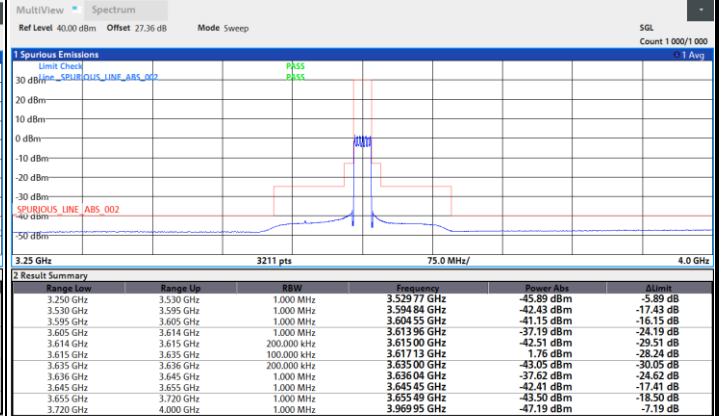
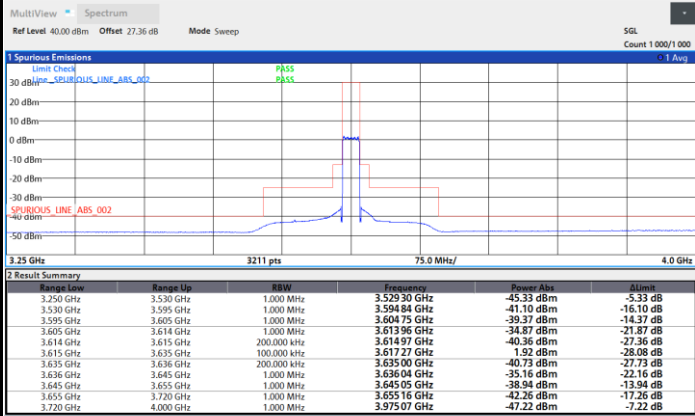
11:40:52 18.10.2023



FR1 n48 / 20MHz / Middle Channel / MASK

QPSK

16QAM

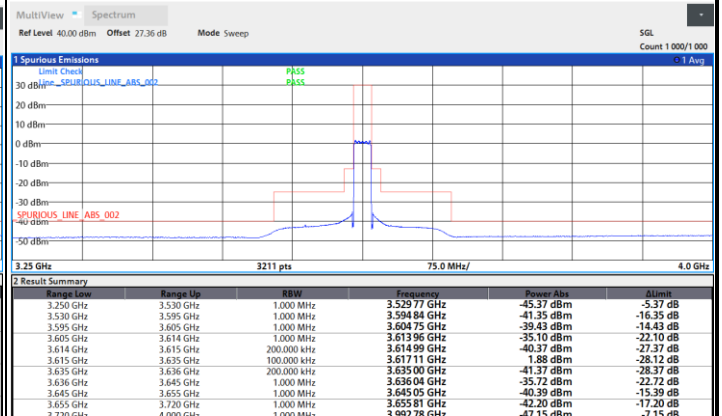
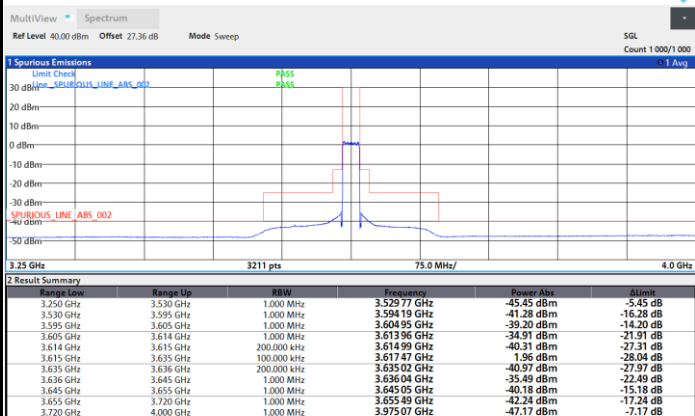


14:02:32 18.10.2023

14:09:43 18.10.2023

64QAM

256QAM



14:16:21 18.10.2023

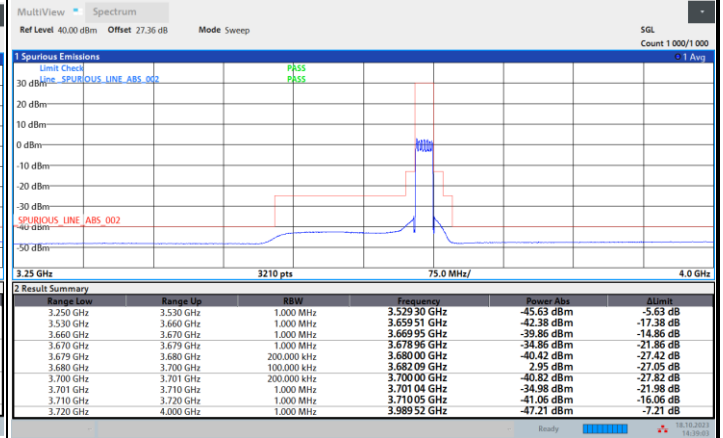
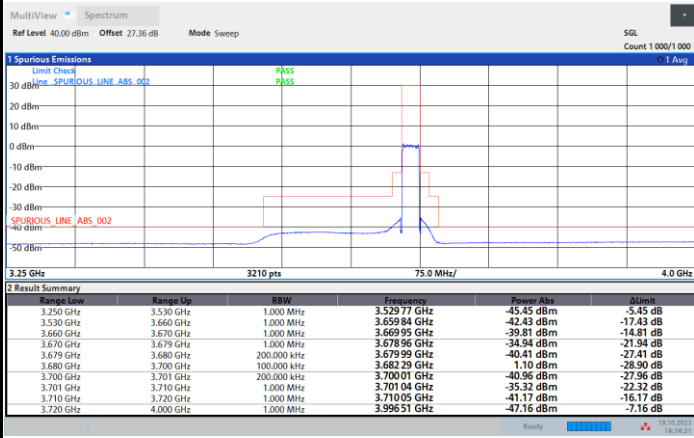
14:23:41 18.10.2023



FR1 n48 / 20MHz / Highest Channel / MASK

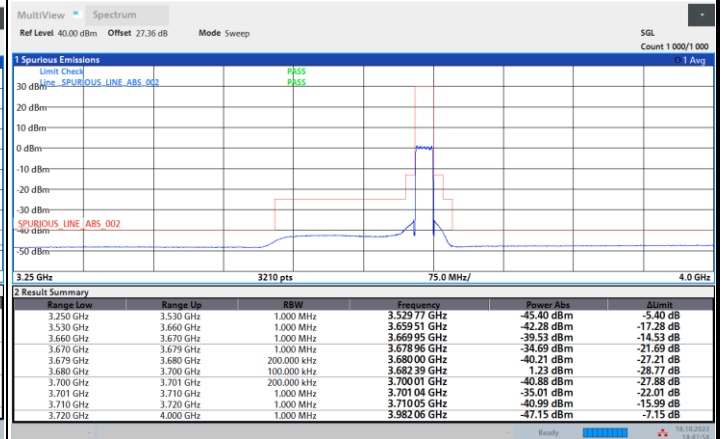
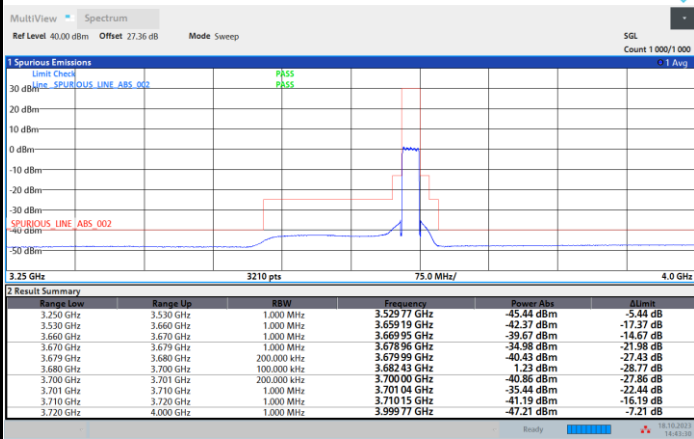
QPSK

16QAM



64QAM

256QAM

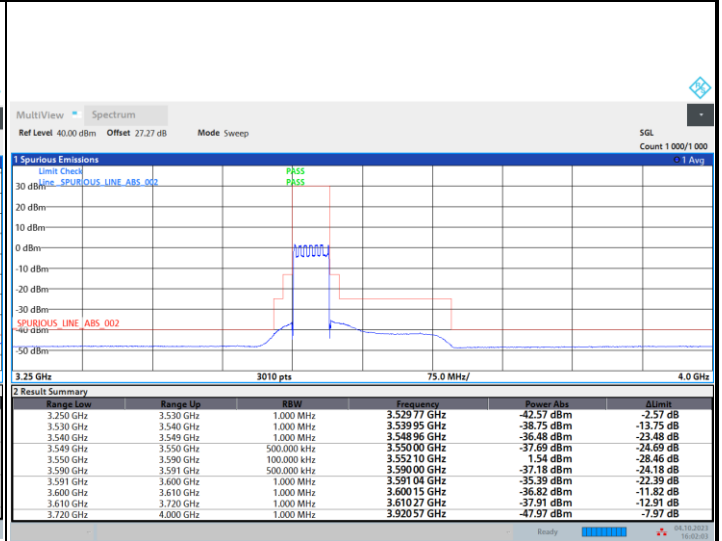
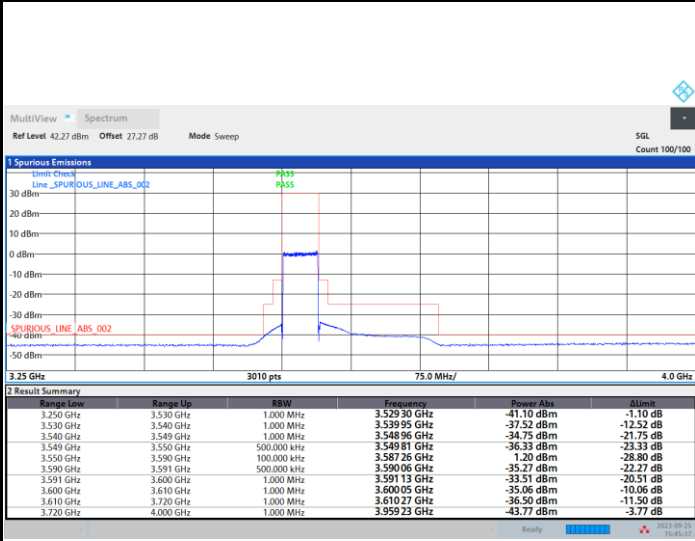




FR1 n48 / 40MHz / Lowest Channel / MASK

QPSK

16QAM

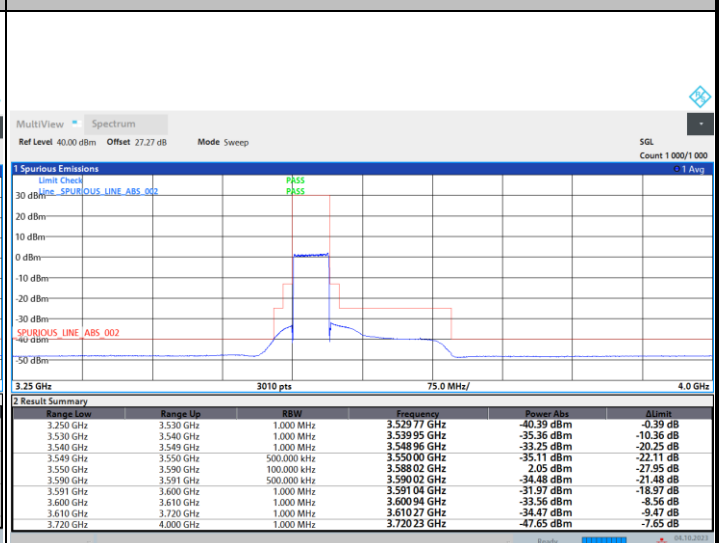
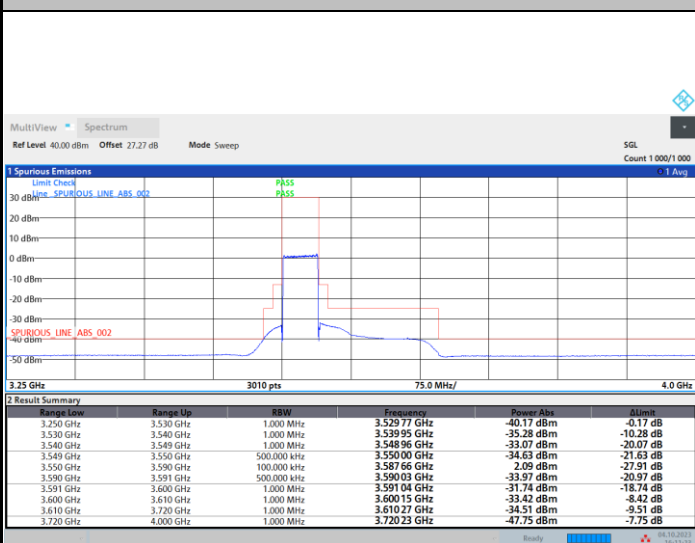


03:45:37 PM 09/25/2023

16:02:05 04.10.2023

64QAM

256QAM



16:11:23 04.10.2023

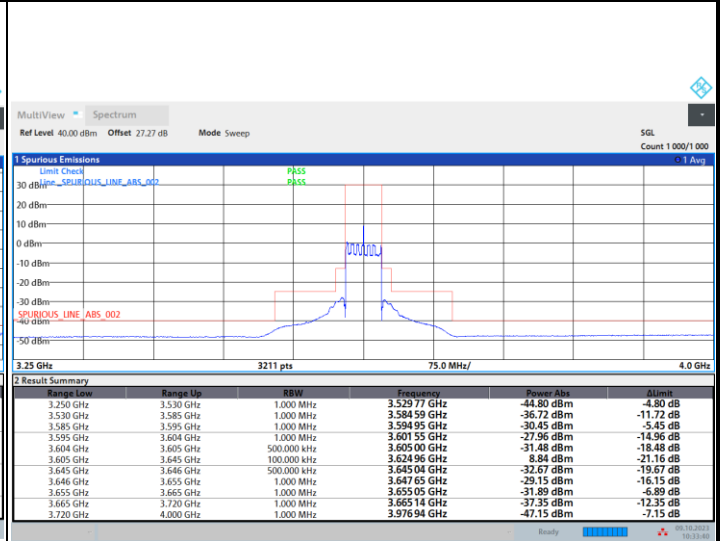
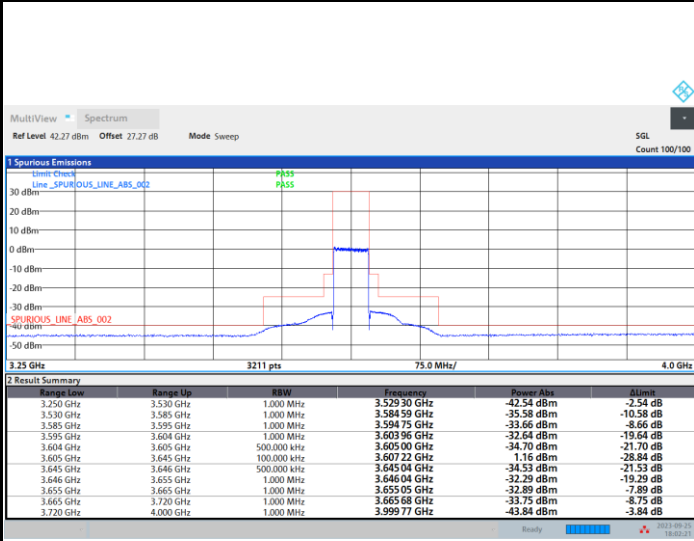
16:20:19 04.10.2023



FR1 n48 / 40MHz / Middle Channel / MASK

QPSK

16QAM

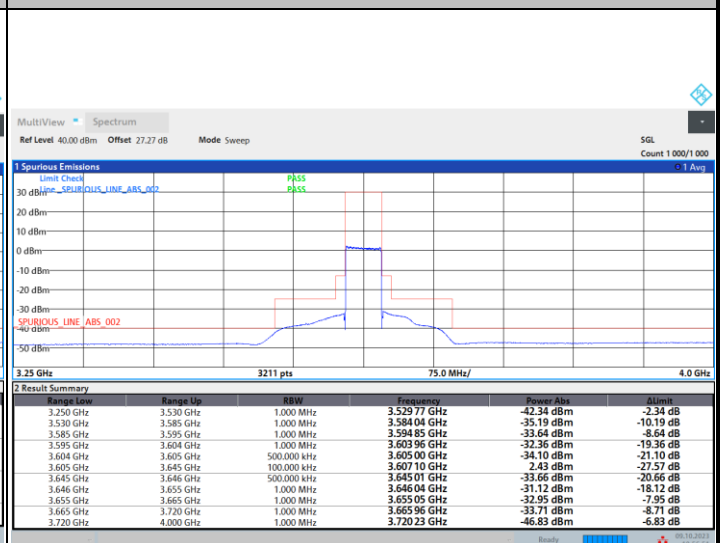
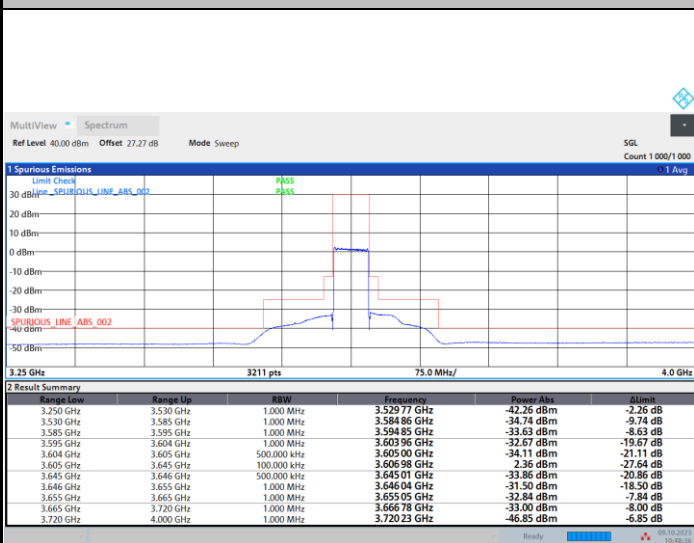


06:02:22 PM 09/25/2023

10:33:41 09.10.2023

64QAM

256QAM



10:48:26 09.10.2023

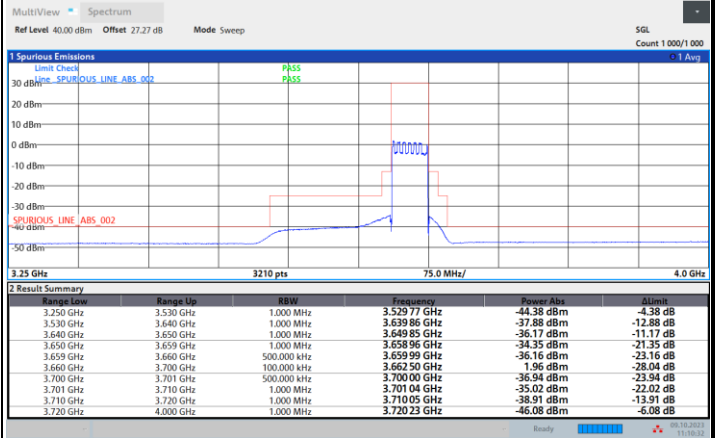
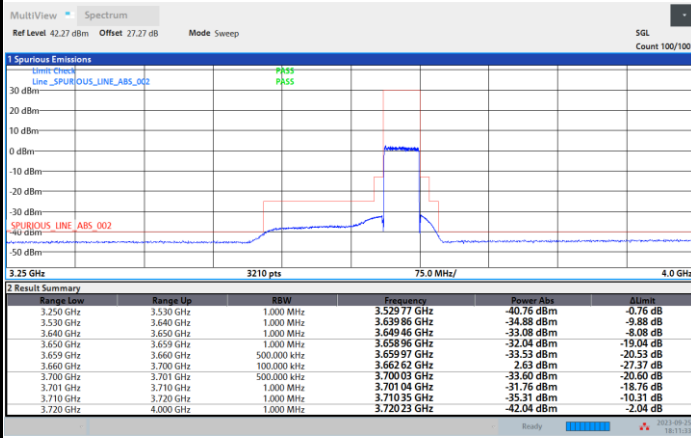
10:56:51 09.10.2023



FR1 n48 / 40MHz / Highest Channel / MASK

QPSK

16QAM

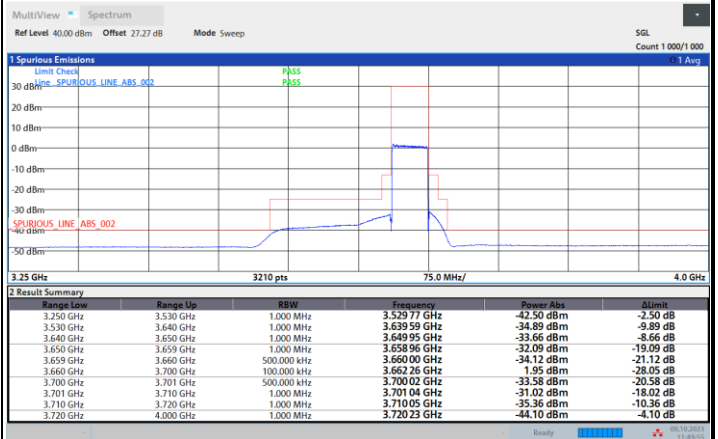
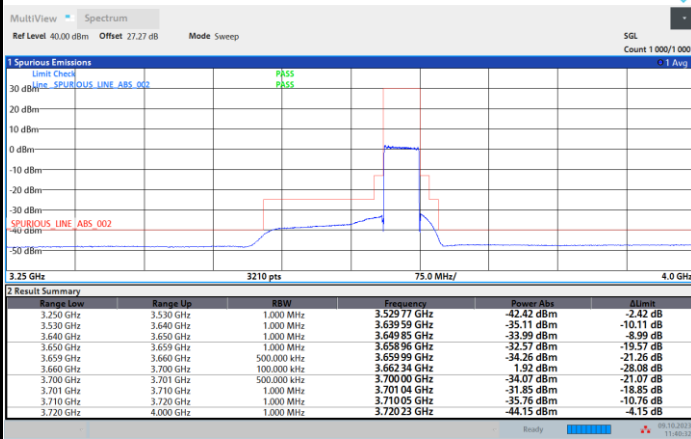


06:11:34 PM 09/25/2023

11:10:33 09.10.2023

64QAM

256QAM



11:40:33 09.10.2023

11:49:56 09.10.2023

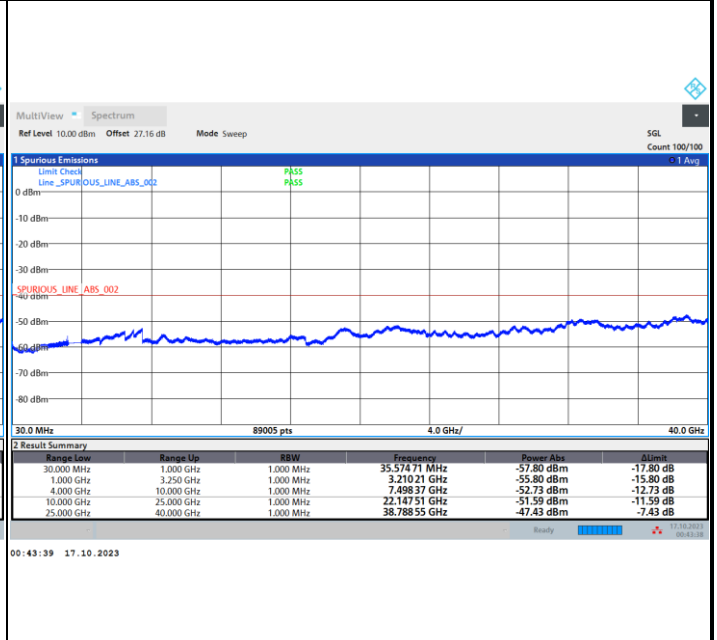
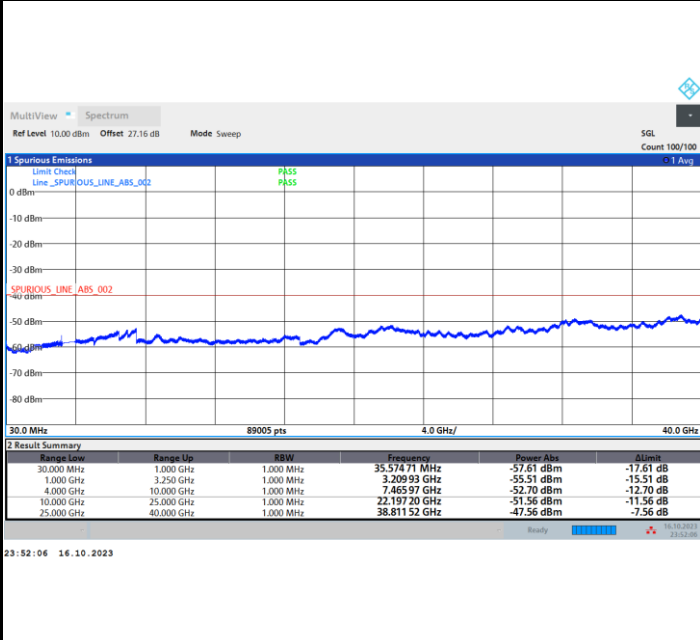


Conducted Spurious Emission

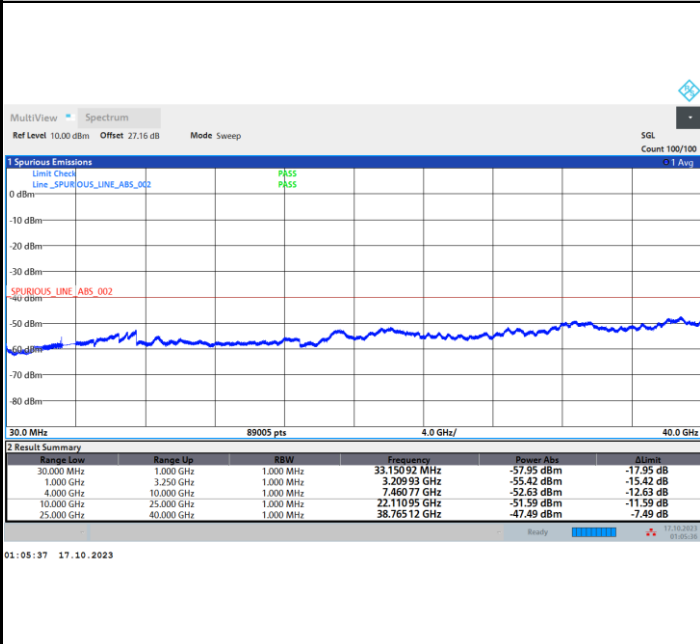
FR1 n48 / 10MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

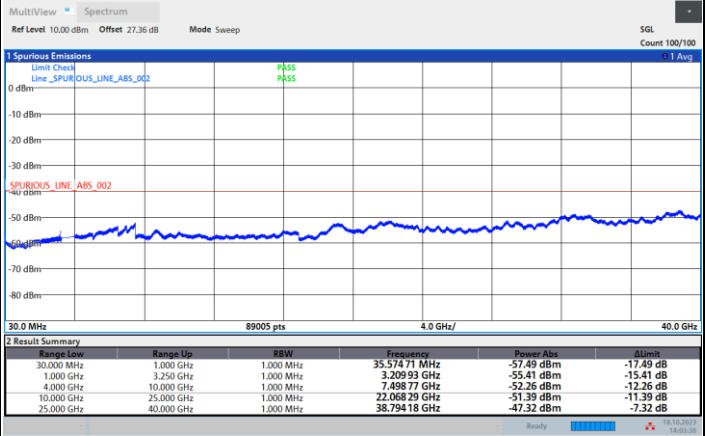
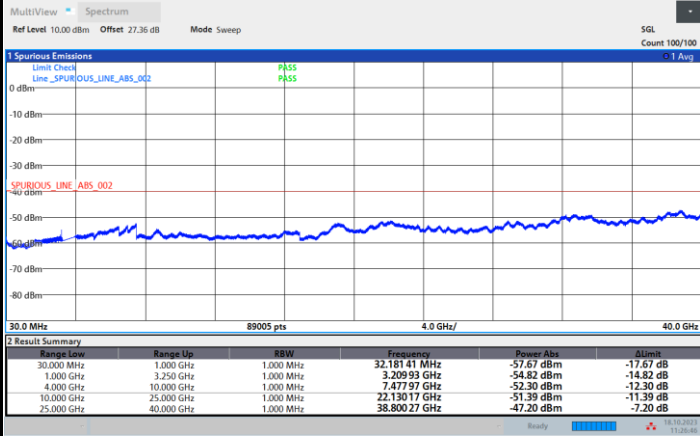




FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

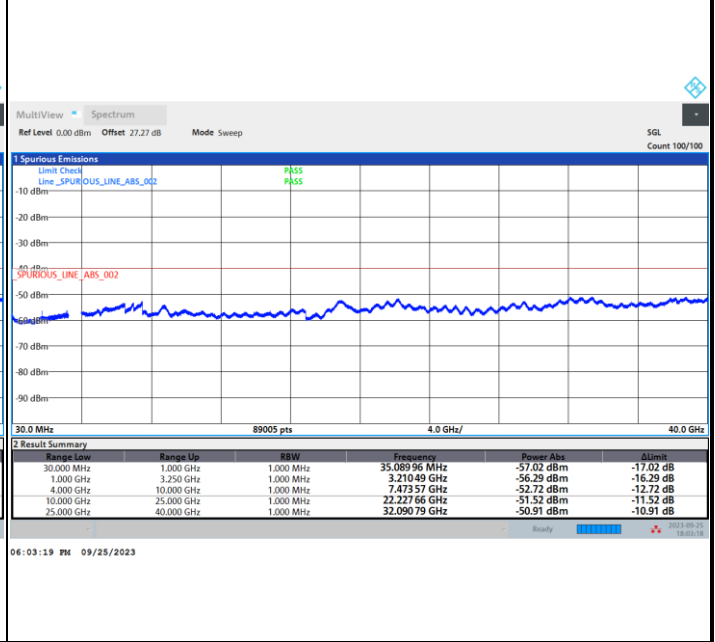
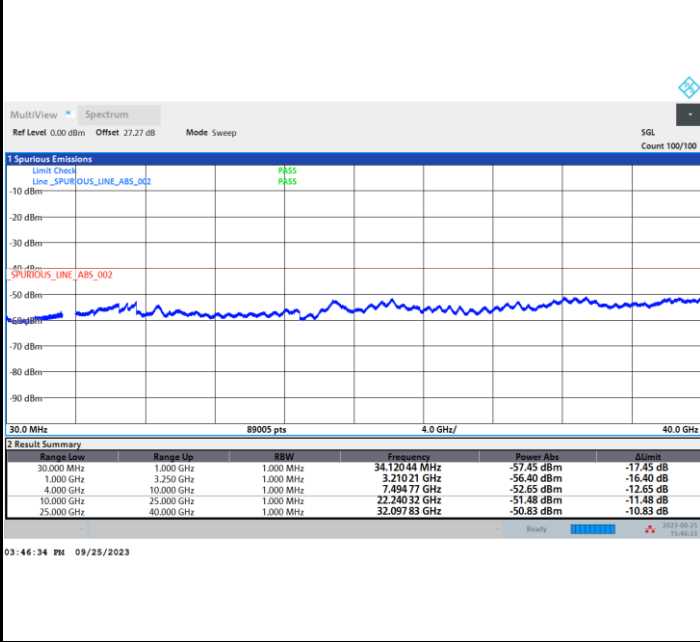




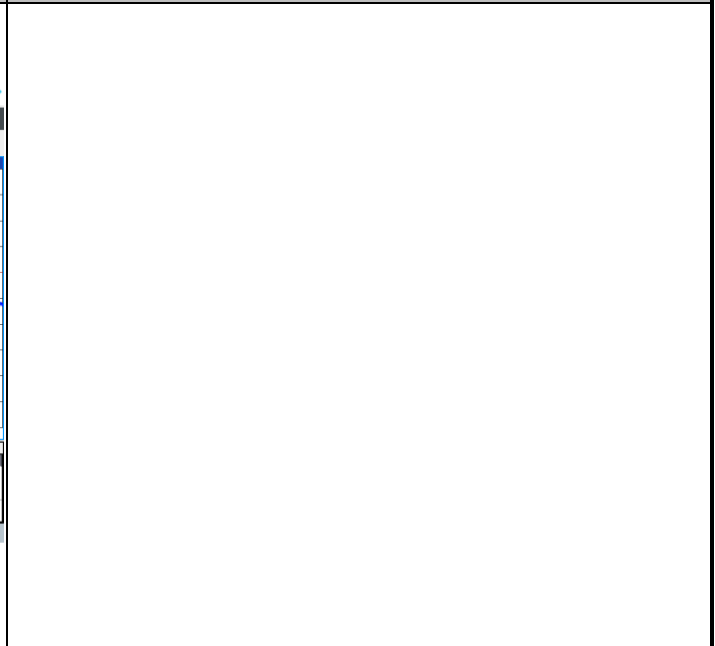
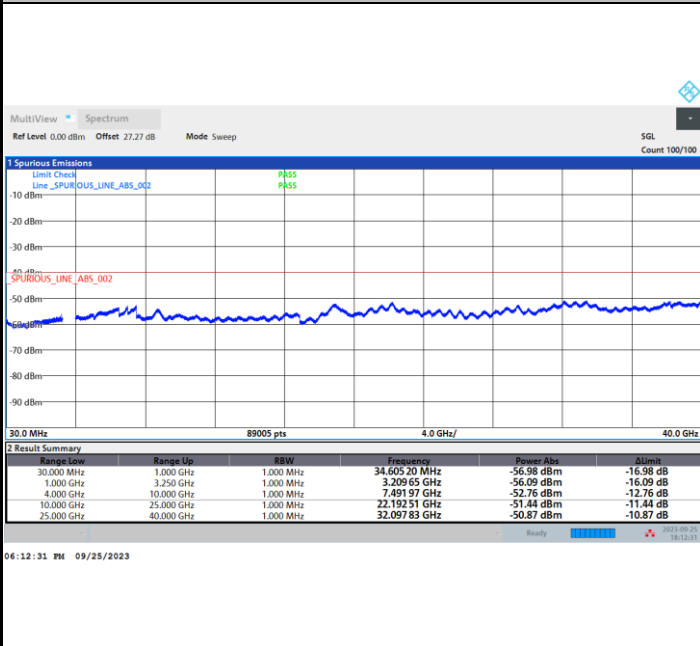
FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.1655	PASS
40	Normal Voltage	0.5517	
30	Normal Voltage	0.6069	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.2759	
0	Normal Voltage	0.2207	
-10	Normal Voltage	0.2207	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.1103	
20	Maximum Voltage	0.4414	
20	Normal Voltage	0.9379	
20	Minimum Voltage	0.1641	

Note:

- 1. Normal Voltage = 110 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Part	Mode	Ch	Freq (MHz)	Level (dBm)	Detector	Ant Factor (dB/m)	Amp\Cbl (dB)	Filter (dB)	EIRP CF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
Part 96	1	H	20632.000	-41.87	RMS	37.65	-32.03	0.00	-95.23	47.74	-40.00	-1.87	H	4TX

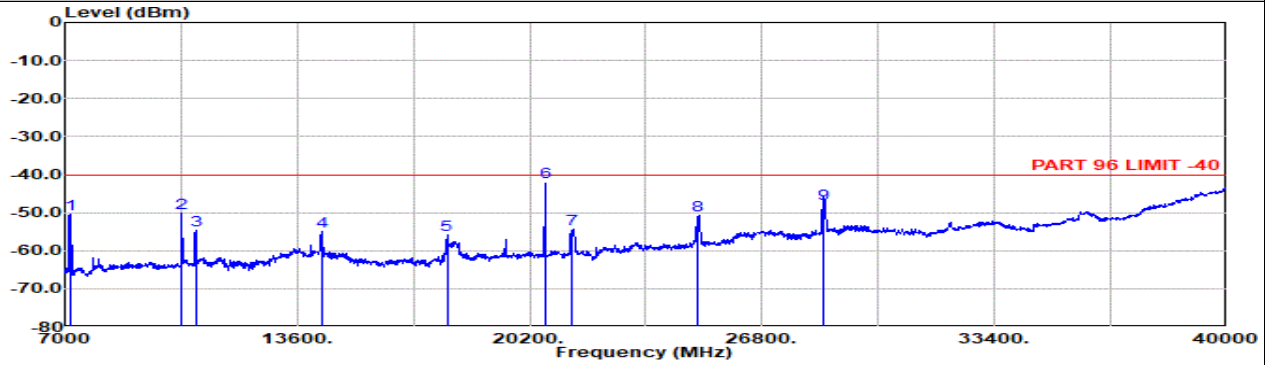


4TX

Part 96 Mode 1

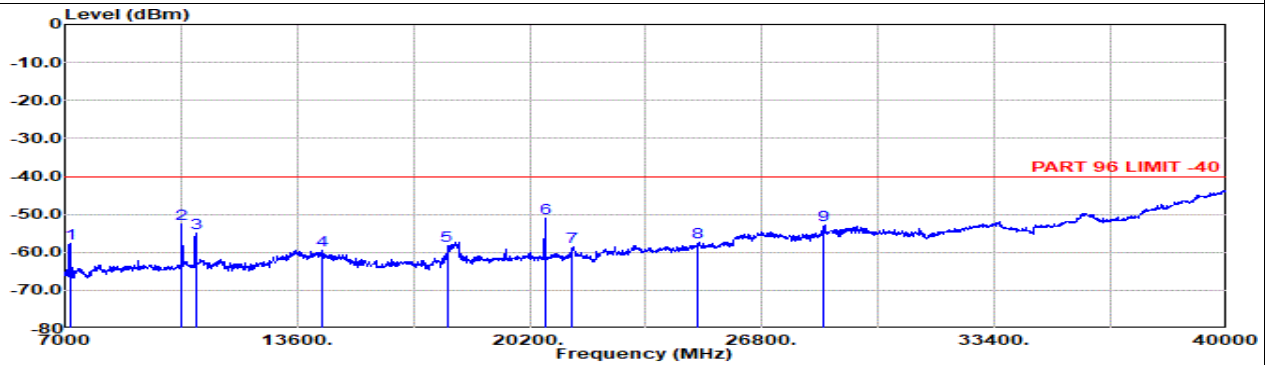
NR SA n48 40M NR SA n48 40M Ch638000 1RB1 BPSK

L



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : SA n48 40M Ch638000 106RB0 BPSK

1	2	3	4	5	6	7	8	9	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin	Pol	
									Factor	1						dB
Freq	Level	Detector							MHz	dBm		dBuV	dBm	dB		
1	7140.00	-50.41 RMS							36.82	-53.20	-5.16	-95.23	66.36	-40.00	-10.41	Horizontal
2	10322.00	-50.26 RMS							38.93	-51.97	-6.18	-95.23	64.19	-40.00	-10.26	Horizontal
3	10710.00	-54.65 RMS							39.28	-51.18	-6.26	-95.23	58.74	-40.00	-14.65	Horizontal
4	14280.00	-55.08 RMS							40.94	-47.37	-6.96	-95.23	53.54	-40.00	-15.08	Horizontal
5	17850.00	-55.84 RMS							41.40	-47.05	-7.75	-95.23	52.79	-40.00	-15.84	Horizontal
6	20632.00	-41.87 RMS							37.65	-32.03	0.00	-95.23	47.74	-40.00	-1.87	Horizontal
7	21420.00	-54.46 RMS							37.93	-31.61	0.00	-95.23	34.45	-40.00	-14.46	Horizontal
8	24990.00	-50.70 RMS							39.10	-29.79	0.00	-95.23	35.22	-40.00	-10.70	Horizontal
9	28560.00	-47.79 RMS							40.34	-29.14	0.00	-95.23	36.24	-40.00	-7.79	Horizontal



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : SA n48 40M Ch638000 106RB0 BPSK

1	2	3	4	5	6	7	8	9	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin	Pol	
									Factor	1						dB
Freq	Level	Detector							MHz	dBm		dBuV	dBm	dB		
1	7140.00	-57.64 RMS							36.82	-53.20	-5.16	-95.23	59.13	-40.00	-17.64	Vertical
2	10322.00	-52.46 RMS							38.93	-51.97	-6.18	-95.23	61.99	-40.00	-12.46	Vertical
3	10710.00	-54.96 RMS							39.28	-51.18	-6.26	-95.23	58.43	-40.00	-14.96	Vertical
4	14280.00	-59.59 RMS							40.94	-47.37	-6.96	-95.23	49.03	-40.00	-19.59	Vertical
5	17850.00	-58.40 RMS							41.40	-47.05	-7.75	-95.23	50.23	-40.00	-18.40	Vertical
6	20632.00	-50.92 RMS							37.65	-32.03	0.00	-95.23	38.69	-40.00	-10.92	Vertical
7	21420.00	-58.53 RMS							37.93	-31.61	0.00	-95.23	30.38	-40.00	-18.53	Vertical
8	24990.00	-57.50 RMS							39.10	-29.79	0.00	-95.23	28.42	-40.00	-17.50	Vertical
9	28560.00	-52.75 RMS							40.34	-29.14	0.00	-95.23	31.28	-40.00	-12.75	Vertical

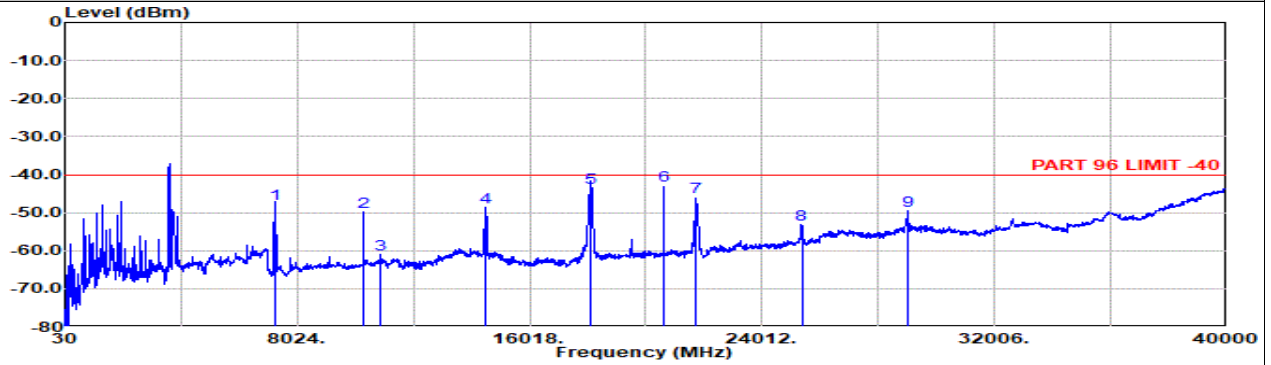


4TX

Part 96 Mode 1

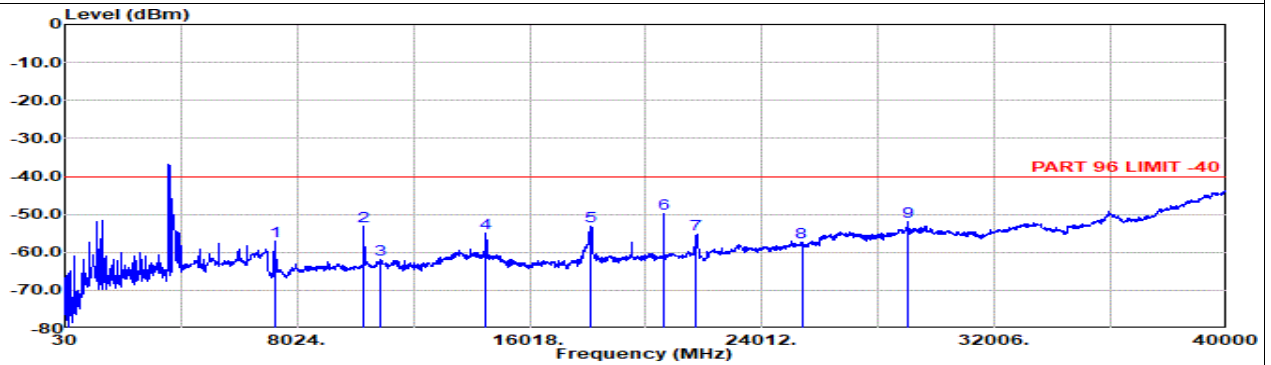
NR SA n48 40M NR SA n48 40M Ch641666 1RB1 BPSK

M



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : SA n48 40M Ch641666 106RB0 BPSK

1	2	3	4	5	6	7	8	9	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin	Pol
									Factor	1					
MHz	dBm	Detector	dB/m	dB	dB	dB	dB	dBuV	dBm	dB					
7250.00	-47.72	RMS	37.20	-53.24	-5.22	-95.23	68.77	-40.00	-7.72	Horizontal					
10322.00	-49.87	RMS	38.93	-51.97	-6.18	-95.23	64.58	-40.00	-9.87	Horizontal					
10875.00	-61.09	RMS	39.60	-50.86	-6.30	-95.23	51.70	-40.00	-21.09	Horizontal					
14500.00	-48.50	RMS	40.80	-47.04	-7.01	-95.23	59.99	-40.00	-8.50	Horizontal					
18125.00	-43.38	RMS	37.75	-34.12	0.00	-95.23	48.22	-40.00	-3.38	Horizontal					
20632.00	-42.98	RMS	37.65	-32.03	0.00	-95.23	46.63	-40.00	-2.98	Horizontal					
21750.00	-45.74	RMS	38.00	-31.62	0.00	-95.23	43.11	-40.00	-5.74	Horizontal					
25375.00	-53.23	RMS	38.90	-29.47	0.00	-95.23	32.56	-40.00	-13.23	Horizontal					
29000.00	-49.49	RMS	40.90	-29.05	0.00	-95.23	33.89	-40.00	-9.49	Horizontal					



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : SA n48 40M Ch641666 106RB0 BPSK

1	2	3	4	5	6	7	8	9	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin	Pol
									Factor	1					
MHz	dBm	Detector	dB/m	dB	dB	dB	dB	dBuV	dBm	dB					
7250.00	-57.04	RMS	37.20	-53.24	-5.22	-95.23	59.45	-40.00	-17.04	Vertical					
10322.00	-53.14	RMS	38.93	-51.97	-6.18	-95.23	61.31	-40.00	-13.14	Vertical					
10875.00	-61.91	RMS	39.60	-50.86	-6.30	-95.23	50.88	-40.00	-21.91	Vertical					
14500.00	-54.89	RMS	40.80	-47.04	-7.01	-95.23	53.60	-40.00	-14.89	Vertical					
18125.00	-53.24	RMS	37.75	-34.12	0.00	-95.23	38.36	-40.00	-13.24	Vertical					
20632.00	-49.86	RMS	37.65	-32.03	0.00	-95.23	39.75	-40.00	-9.86	Vertical					
21750.00	-55.12	RMS	38.00	-31.62	0.00	-95.23	33.73	-40.00	-15.12	Vertical					
25375.00	-57.36	RMS	38.90	-29.47	0.00	-95.23	28.43	-40.00	-17.36	Vertical					
29000.00	-52.03	RMS	40.90	-29.05	0.00	-95.23	31.35	-40.00	-12.03	Vertical					

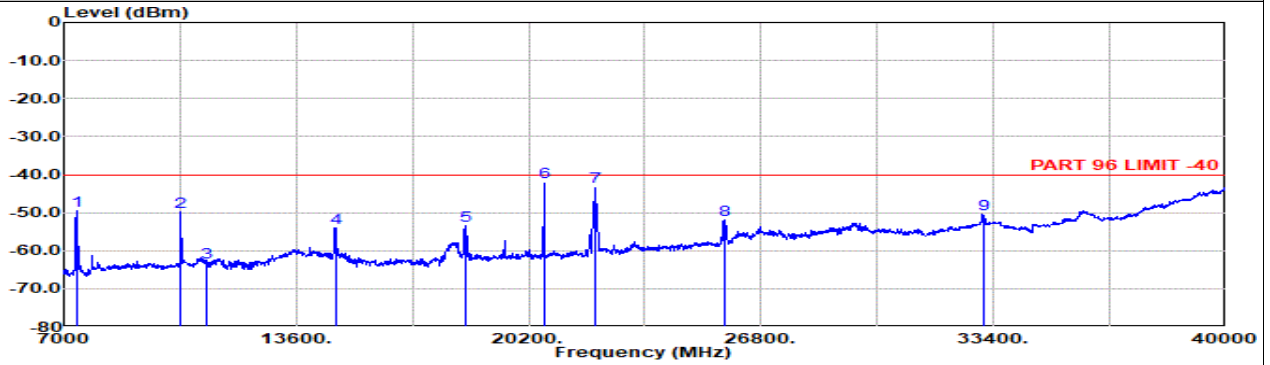


4TX

Part 96 Mode 1

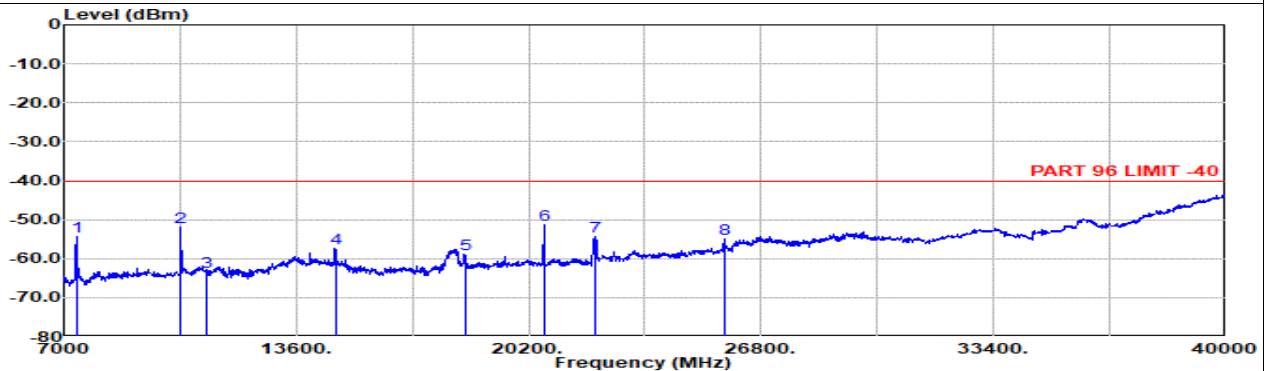
NR SA n48 40M NR SA n48 40M Ch645332 1RB1 BPSK

H



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : SA n48 40M Ch645332 106RB0 BPSK

1	2	3	4	5	6	7	8	9	Ant Factor		Amp\Cb 1		Filter	EIRPCF	Readin g	Limit	Margin	Pol
									dB/m	dB	dB	dB						
7360.00	10322.00	11040.00	14720.00	18400.00	20632.00	22080.00	25760.00	33120.00	36.94	-53.19	-5.19	-95.23	67.19	-40.00	-9.48	Horizontal		
									38.93	-51.97	-6.18	-95.23	64.67	-40.00	-9.78	Horizontal		
									38.92	-50.55	-6.33	-95.23	50.18	-40.00	-23.01	Horizontal		
									40.66	-46.98	-7.07	-95.23	54.68	-40.00	-13.94	Horizontal		
									37.62	-34.08	0.00	-95.23	38.28	-40.00	-13.41	Horizontal		
									37.65	-32.03	0.00	-95.23	47.74	-40.00	-1.87	Horizontal		
									38.13	-31.61	0.00	-95.23	45.67	-40.00	-3.04	Horizontal		
									39.10	-29.14	0.00	-95.23	33.49	-40.00	-11.78	Horizontal		
									41.05	-26.04	0.00	-95.23	29.82	-40.00	-10.40	Horizontal		



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : SA n48 40M Ch645332 106RB0 BPSK

1	2	3	4	5	6	7	8	Ant Factor		Amp\Cb 1		Filter	EIRPCF	Readin g	Limit	Margin	Pol
								dB/m	dB	dB	dB						
7360.00	10322.00	11040.00	14720.00	18400.00	20632.00	22080.00	25760.00	36.94	-53.19	-5.19	-95.23	62.18	-40.00	-14.49	Vertical		
								38.93	-51.97	-6.18	-95.23	62.41	-40.00	-12.04	Vertical		
								38.92	-50.55	-6.33	-95.23	49.92	-40.00	-23.27	Vertical		
								40.66	-46.98	-7.07	-95.23	51.29	-40.00	-17.33	Vertical		
								37.62	-34.08	0.00	-95.23	32.92	-40.00	-18.77	Vertical		
								37.65	-32.03	0.00	-95.23	38.25	-40.00	-11.36	Vertical		
								38.13	-31.61	0.00	-95.23	34.47	-40.00	-14.24	Vertical		
								39.10	-29.14	0.00	-95.23	30.18	-40.00	-15.09	Vertical		