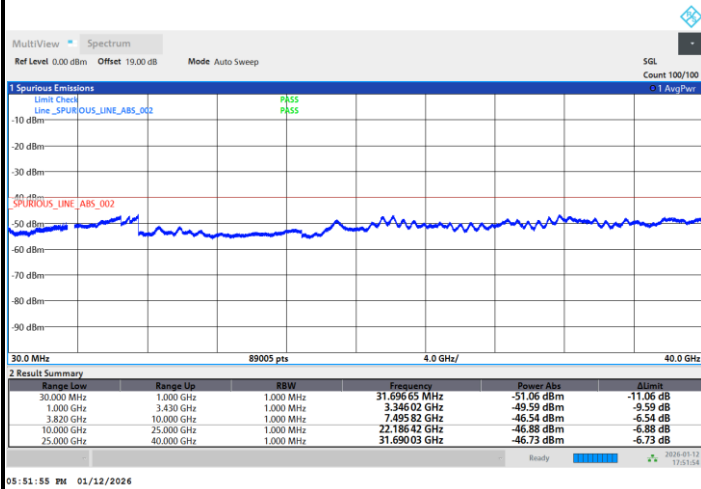


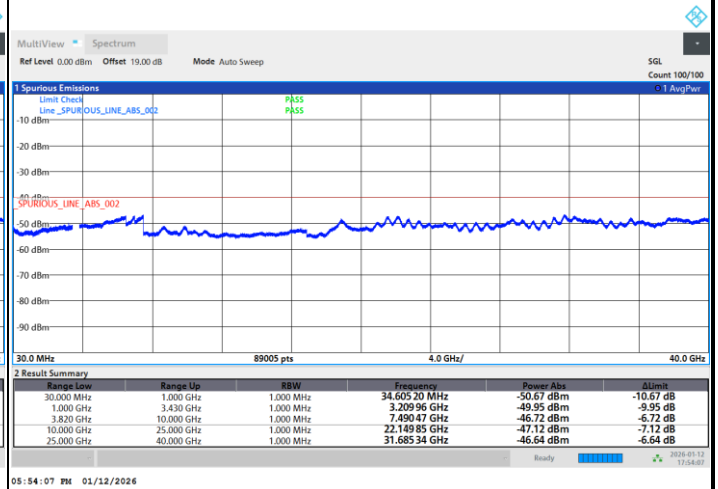


FR1 n48 / 15MHz / CP OFDM / QPSK / 1RB1

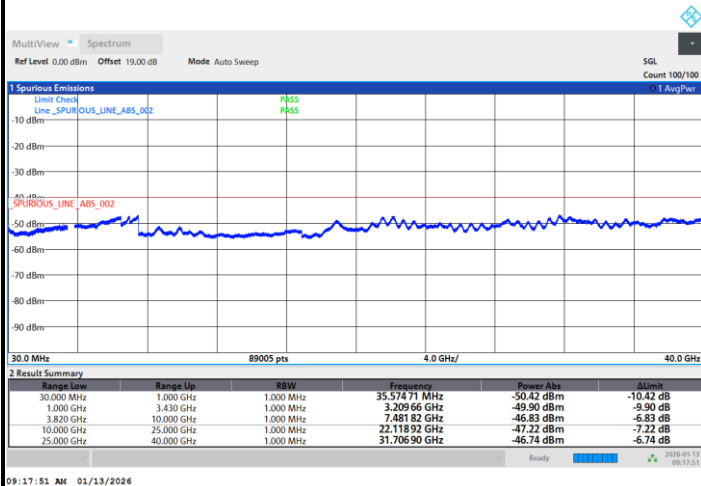
Lowest Channel



Middle Channel



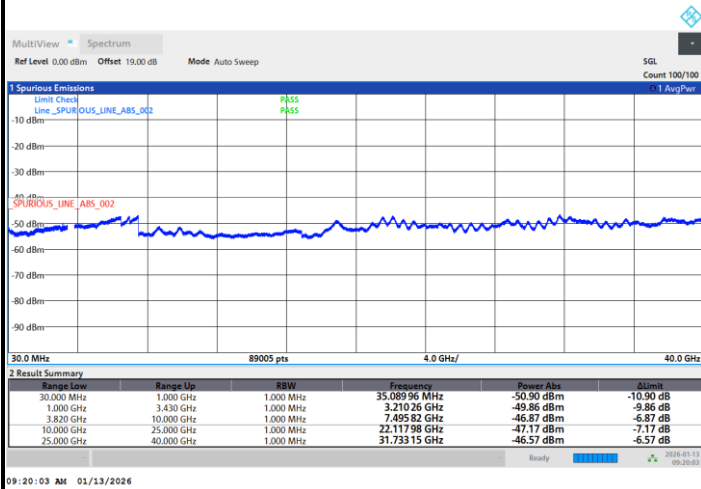
Highest Channel



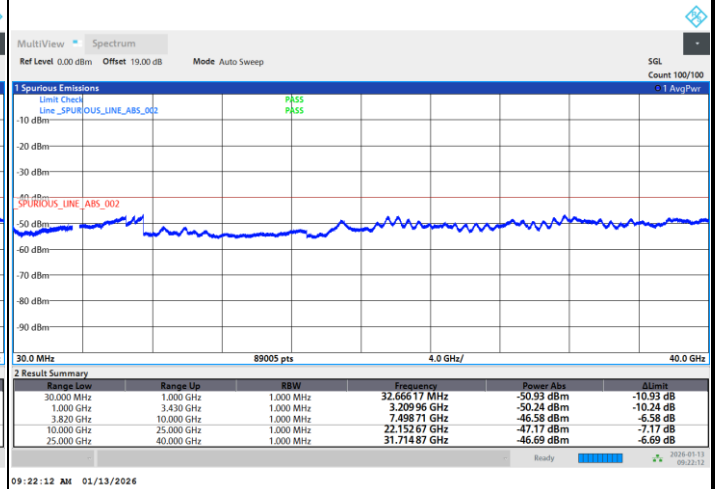


FR1 n48 / 20MHz / CP OFDM / QPSK / 1RB1

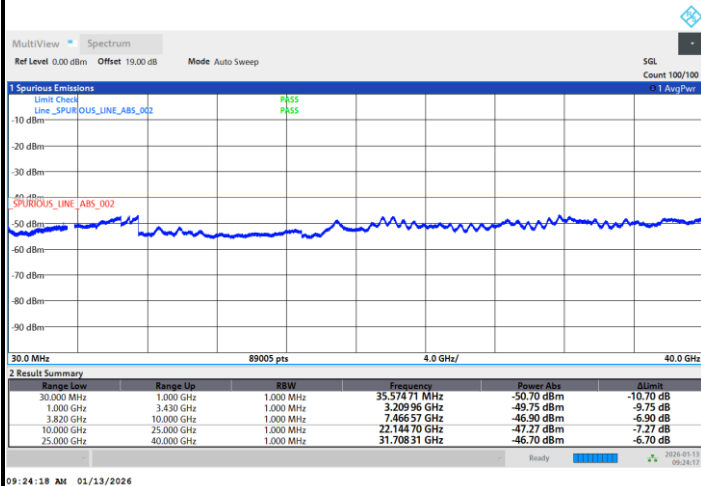
Lowest Channel



Middle Channel



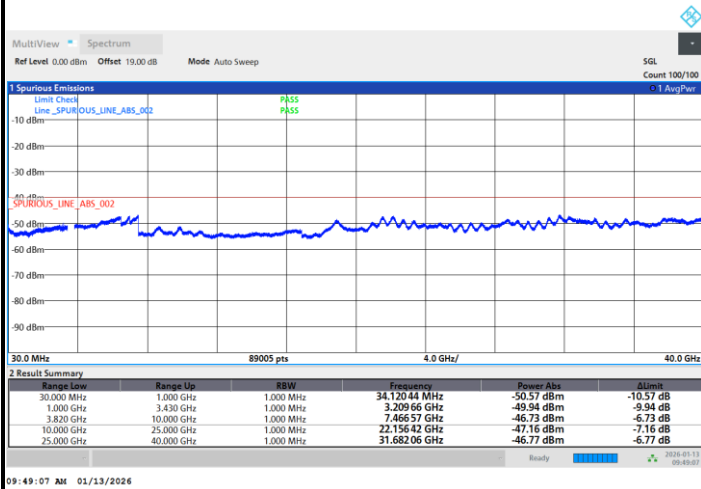
Highest Channel



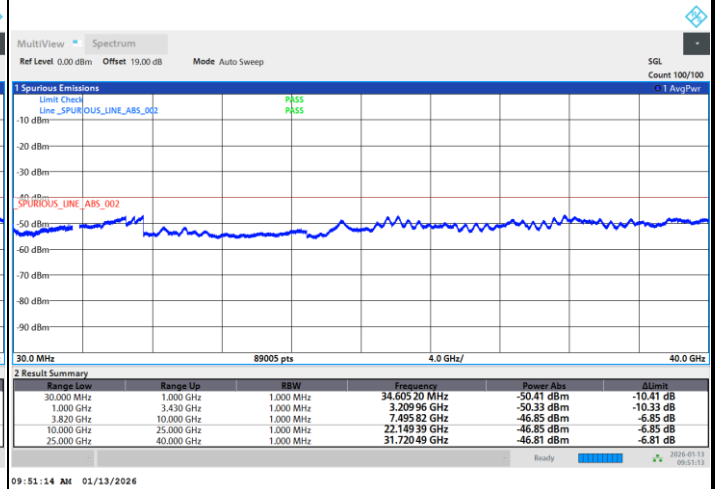


FR1 n48 / 30MHz / CP OFDM / QPSK / 1RB1

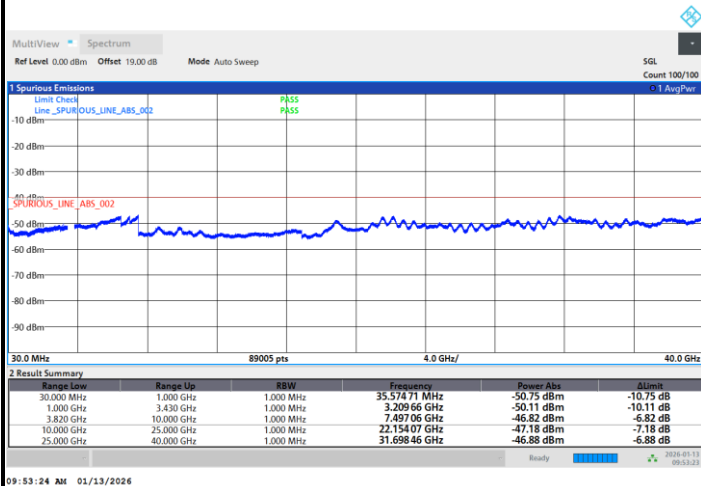
Lowest Channel



Middle Channel



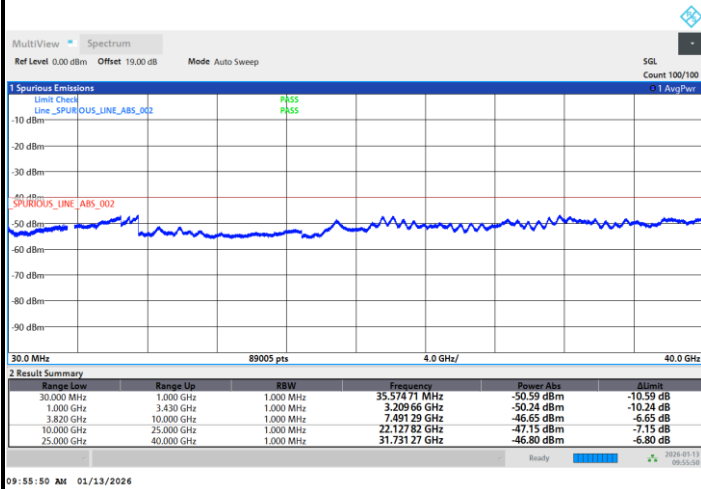
Highest Channel



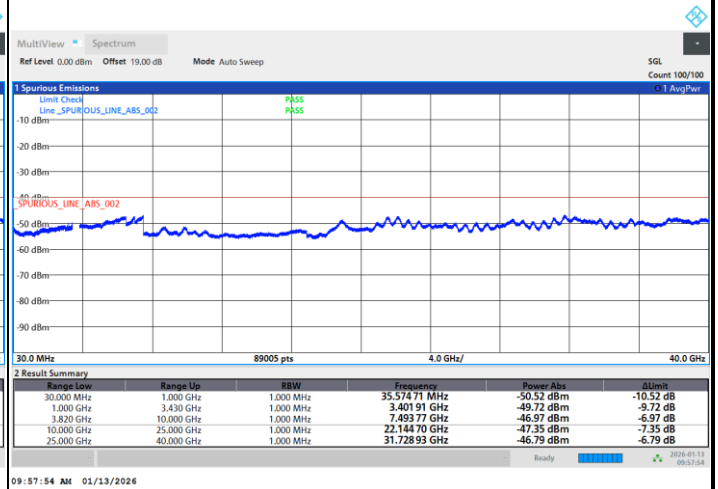


FR1 n48 / 40MHz / CP OFDM / QPSK / 1RB1

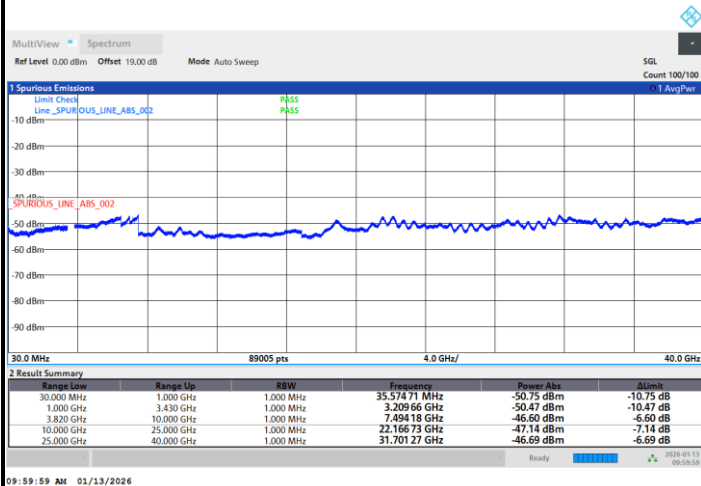
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0025	-9.8	Yes	PASS
40	Normal Voltage	0.0017	-7.2	Yes	
30	Normal Voltage	0.0013	3.8	Yes	
20(Ref.)	Normal Voltage	0.0000	-0.9	Yes	
10	Normal Voltage	0.0001	-1.3	Yes	
0	Normal Voltage	0.0002	-1.7	Yes	
-10	Normal Voltage	0.0009	2.5	Yes	
-20	Normal Voltage	0.0018	-7.4	Yes	
20	Maximum Voltage	0.0010	-4.4	Yes	
20	Normal Voltage	0.0000	-0.9	Yes	
20	Minimum Voltage	0.0010	2.9	Yes	

Note:

1. Normal Voltage = 10.8 V. ; Minimum Voltage = 7.5 V. ; Maximum Voltage = 12.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang, David Dai, and Sam Chou	Relative Humidity(%):	64.3 ~ 70.5
		Temperature(°C):	18.8 ~ 22.4

B1. Summary of each worse mode

Mode	Band	Part	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
3	NR SA n48	Part 96	M	14465	-50.58	RMS	39.96	-22.31	0.51	-95.23	26.49	-40.00	-10.58	H	3
4	NR SA n48 MIMO	Part 96	L	14205	-50.70	RMS	40.28	-22.26	0.56	-95.23	25.95	-40.00	-10.70	H	3+1
5	NR SA n48 MIMO	Part 96	M	14465	-50.32	RMS	39.96	-22.31	0.51	-95.23	26.75	-40.00	-10.32	H	0+2

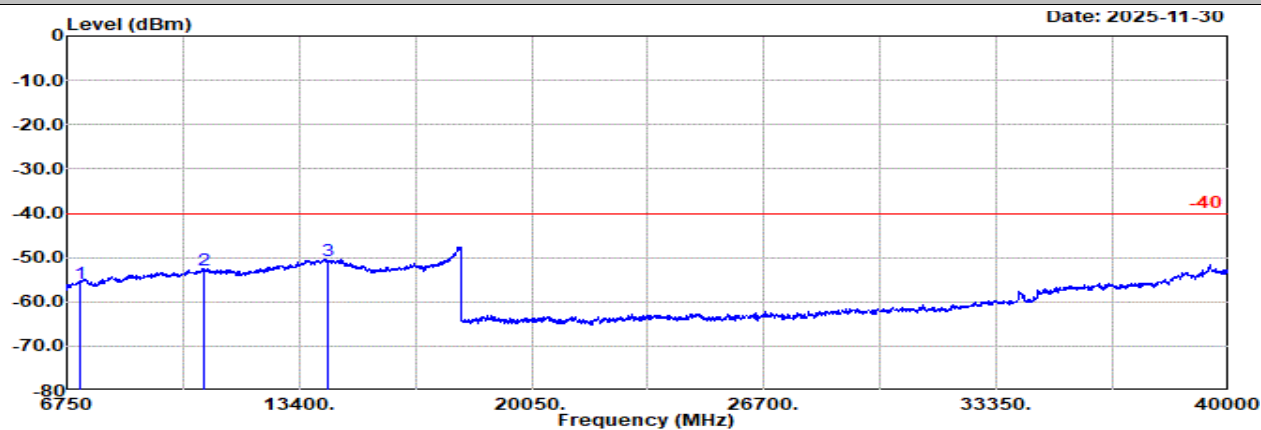


Ant. 3

Part 96 Mode 3

NR SA n48 20M Ch637334 1RB1 QPSK

L

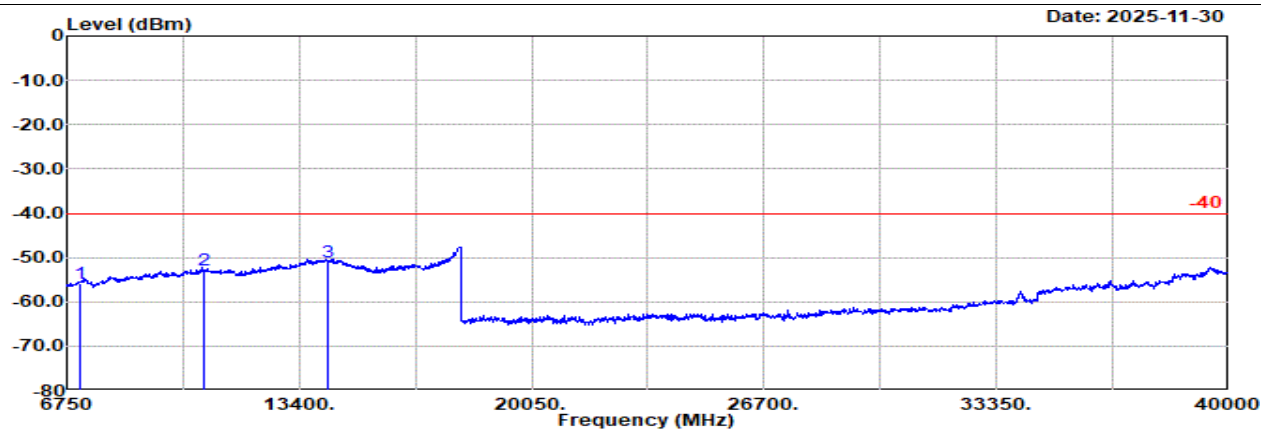


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: NR SA n48 20M Ch637334 1RB1 BPSK

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit dBm	Margin dB	Pol
				Factor	1					
1	7102.00	-55.73	RMS	36.41	-22.91	1.10 -95.23	24.90	-40.00	-15.73	Horizontal
2	10653.00	-52.86	RMS	39.19	-22.82	0.45 -95.23	25.55	-40.00	-12.86	Horizontal
3	14205.00	-50.85	RMS	40.28	-22.26	0.56 -95.23	25.80	-40.00	-10.85	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: NR SA n48 20M Ch637334 1RB1 BPSK

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit dBm	Margin dB	Pol
				Factor	1					
1	7102.00	-56.00	RMS	36.41	-22.91	1.10 -95.23	24.63	-40.00	-16.00	Vertical
2	10653.00	-52.78	RMS	39.19	-22.82	0.45 -95.23	25.63	-40.00	-12.78	Vertical
3	14205.00	-51.00	RMS	40.28	-22.26	0.56 -95.23	25.65	-40.00	-11.00	Vertical

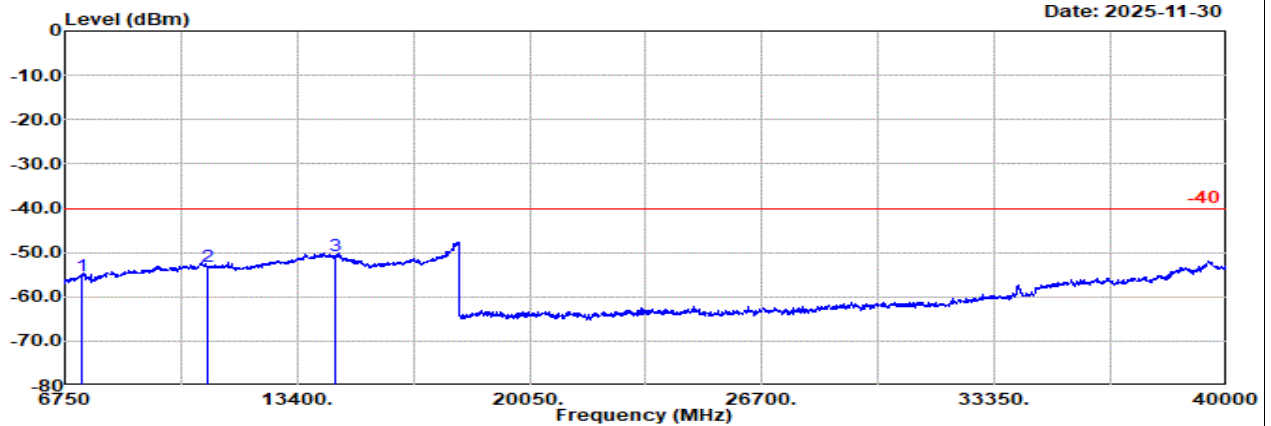


Ant. 3

Part 96 Mode 3

NR SA n48 20M Ch641666 1RB1 QPSK

M

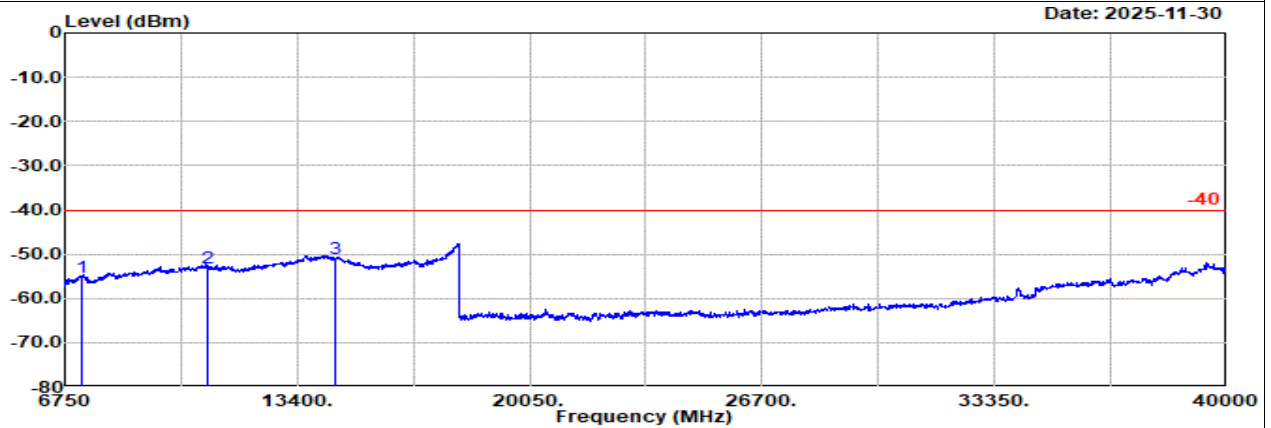


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: NR SA n48 20M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-55.11	RMS	36.93	-22.89	1.00	-95.23	25.08	-40.00	-15.11	Horizontal	
2	10848.00	-53.16	RMS	39.00	-22.79	0.44	-95.23	25.42	-40.00	-13.16	Horizontal	
3	14465.00	-50.58	RMS	39.96	-22.31	0.51	-95.23	26.49	-40.00	-10.58	Horizontal	



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: NR SA n48 20M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-55.29	RMS	36.93	-22.89	1.00	-95.23	24.90	-40.00	-15.29	Vertical	
2	10848.00	-53.00	RMS	39.00	-22.79	0.44	-95.23	25.58	-40.00	-13.00	Vertical	
3	14465.00	-51.03	RMS	39.96	-22.31	0.51	-95.23	26.04	-40.00	-11.03	Vertical	

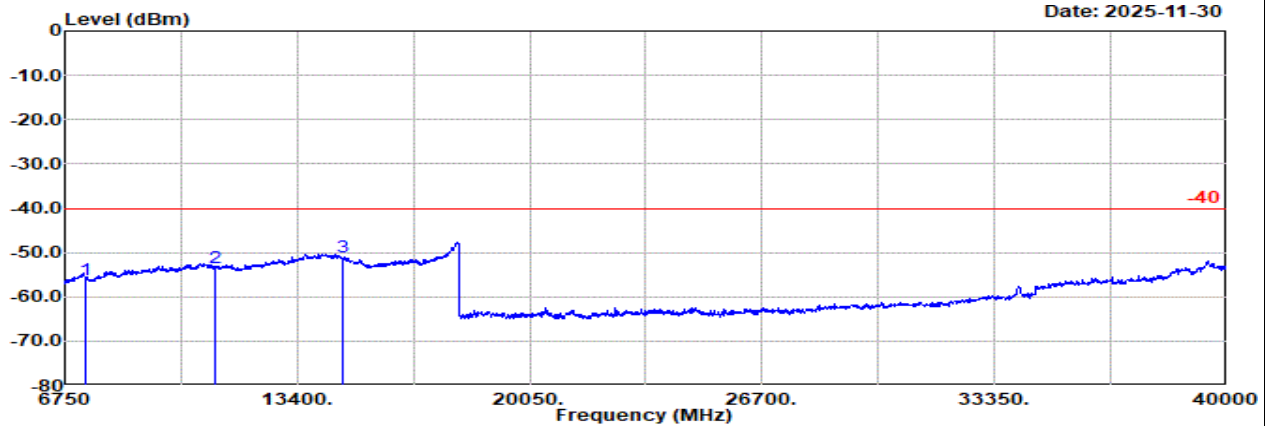


Ant. 3

Part 96 Mode 3

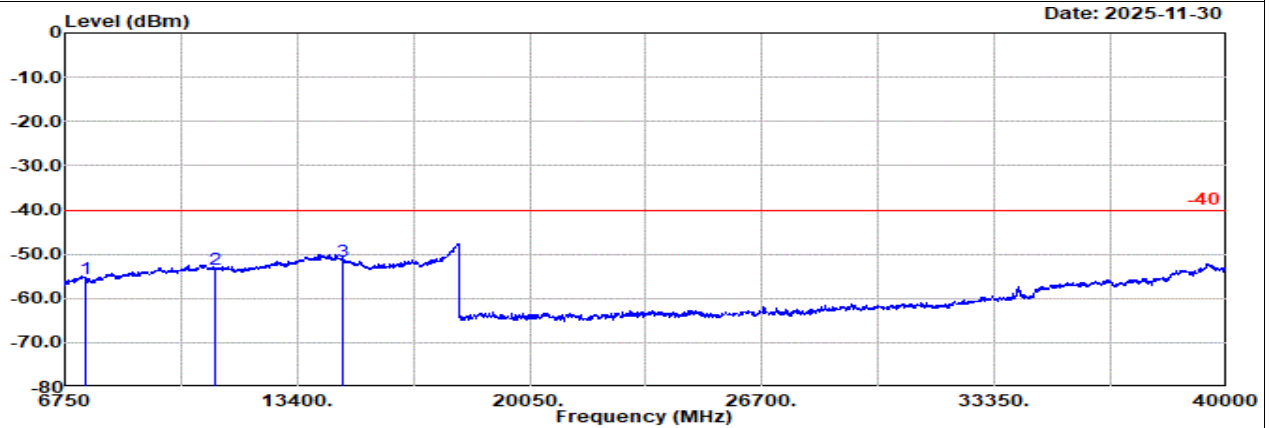
NR SA n48 20M Ch646000 1RB1 QPSK

H



Site : 03CH20-HY
Condition: -40 1m BBHA9170_1223_250702 Horizontal
NR SA n48 20M Ch646000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7362.00	-56.06	RMS	36.55	-22.86	0.82	-95.23	24.66	-40.00	-16.06 Horizontal
2	11043.00	-53.45	RMS	38.90	-22.79	0.43	-95.23	25.24	-40.00	-13.45 Horizontal
3	14725.00	-50.91	RMS	39.90	-22.43	0.47	-95.23	26.38	-40.00	-10.91 Horizontal



Site : 03CH20-HY
Condition: -40 1m BBHA9170_1223_250702 Vertical
NR SA n48 20M Ch646000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7362.00	-55.63	RMS	36.55	-22.86	0.82	-95.23	25.09	-40.00	-15.63 Vertical
2	11043.00	-53.29	RMS	38.90	-22.79	0.43	-95.23	25.40	-40.00	-13.29 Vertical
3	14725.00	-51.64	RMS	39.90	-22.43	0.47	-95.23	25.65	-40.00	-11.64 Vertical

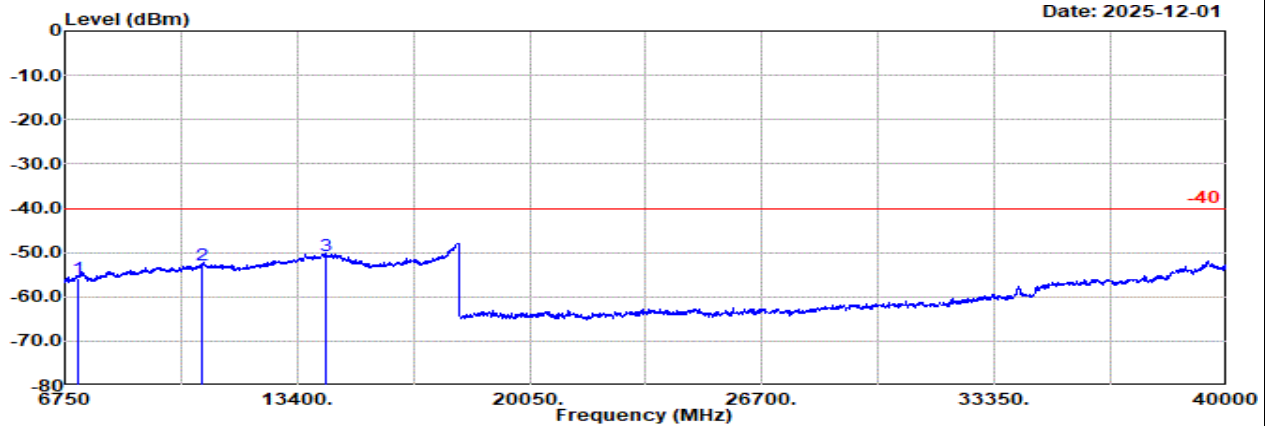


Ant. 3+1

Part 96 Mode 4

NR SA n48 MIMO 20M Ch637334 1RB1 QPSK

L

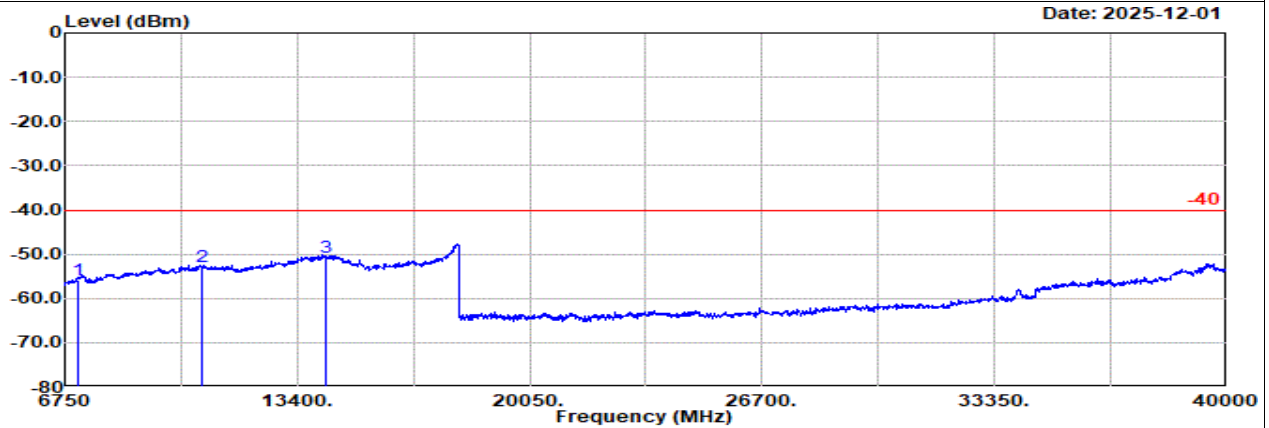


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

NR SA n48 20M Ch637334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7102.00	-55.82	RMS	36.41	-22.91	1.10	-95.23	24.81	-40.00	-15.82	Horizontal			
2	10653.00	-52.75	RMS	39.19	-22.82	0.45	-95.23	25.66	-40.00	-12.75	Horizontal			
3	14205.00	-50.70	RMS	40.28	-22.26	0.56	-95.23	25.95	-40.00	-10.70	Horizontal			



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

NR SA n48 20M Ch637334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7102.00	-55.90	RMS	36.41	-22.91	1.10	-95.23	24.73	-40.00	-15.90	Vertical			
2	10653.00	-52.69	RMS	39.19	-22.82	0.45	-95.23	25.72	-40.00	-12.69	Vertical			
3	14205.00	-50.84	RMS	40.28	-22.26	0.56	-95.23	25.81	-40.00	-10.84	Vertical			

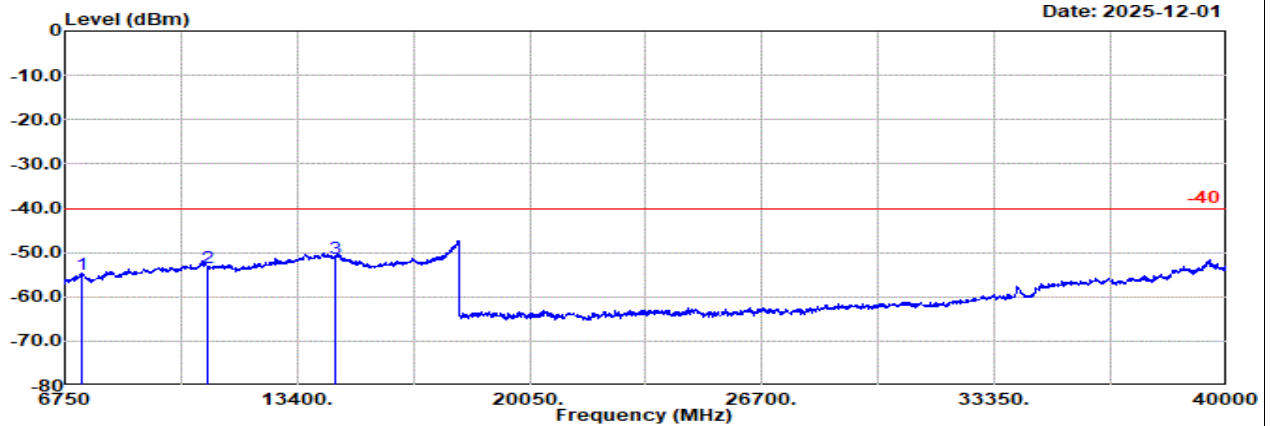


Ant. 3+1

Part 96 Mode 4

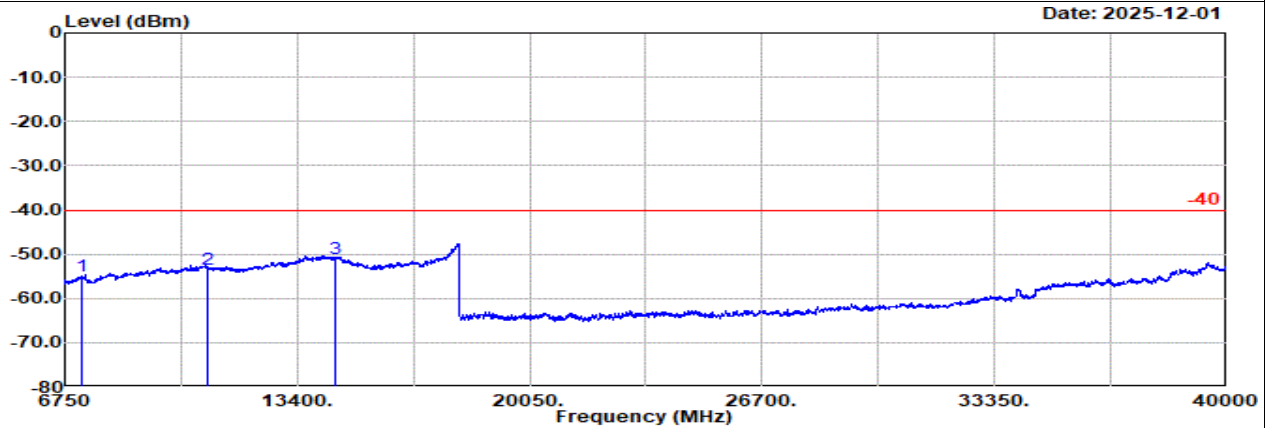
NR SA n48 MIMO 20M Ch641666 1RB1 QPSK

M



Site : 03CH20-HY
Condition: -40 1m BBHA9170_1223_250702 Horizontal
: NR SA n48 20M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7232.00	-54.97	RMS	36.93	-22.89	1.00	-95.23	25.22	-40.00	-14.97	Horizontal			
2	10848.00	-53.31	RMS	39.00	-22.79	0.44	-95.23	25.27	-40.00	-13.31	Horizontal			
3	14465.00	-51.38	RMS	39.96	-22.31	0.51	-95.23	25.69	-40.00	-11.38	Horizontal			



Site : 03CH20-HY
Condition: -40 1m BBHA9170_1223_250702 Vertical
: NR SA n48 20M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7232.00	-55.06	RMS	36.93	-22.89	1.00	-95.23	25.13	-40.00	-15.06	Vertical			
2	10848.00	-53.32	RMS	39.00	-22.79	0.44	-95.23	25.26	-40.00	-13.32	Vertical			
3	14465.00	-50.97	RMS	39.96	-22.31	0.51	-95.23	26.10	-40.00	-10.97	Vertical			

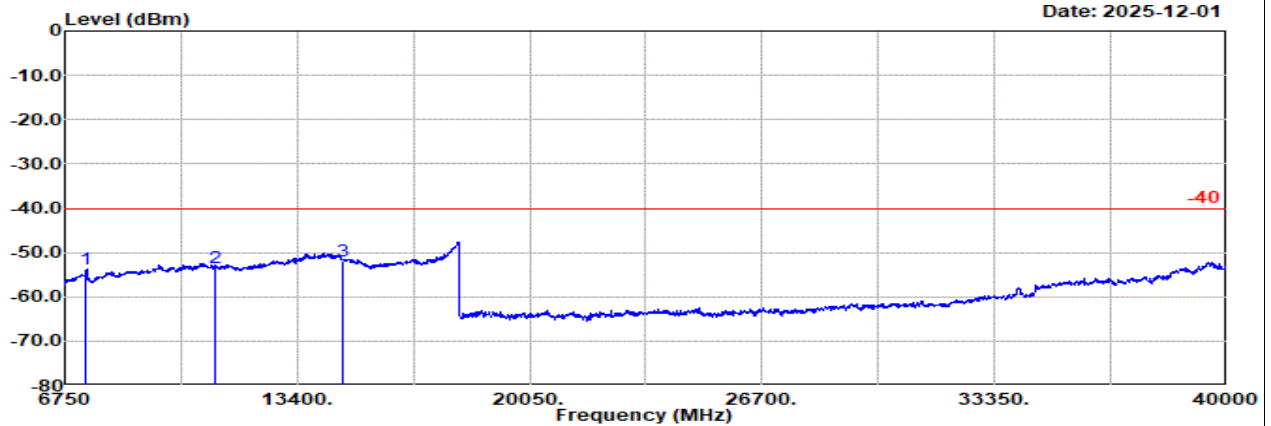


Ant. 3+1

Part 96 Mode 4

NR SA n48 MIMO 20M Ch646000 1RB1 QPSK

H

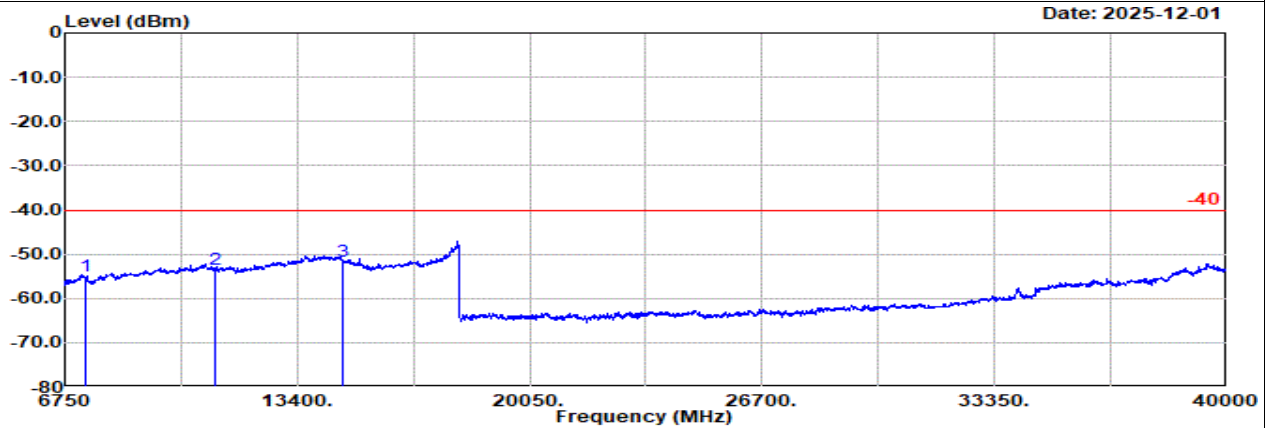


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: NR SA n48 20M Ch646000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7362.00	-53.81	RMS	36.55	-22.86	0.82	-95.23	26.91	-40.00	-13.81
2	11043.00	-53.42	RMS	38.90	-22.79	0.43	-95.23	25.27	-40.00	-13.42
3	14725.00	-51.95	RMS	39.90	-22.43	0.47	-95.23	25.34	-40.00	-11.95



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: NR SA n48 20M Ch646000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7362.00	-54.92	RMS	36.55	-22.86	0.82	-95.23	25.80	-40.00	-14.92
2	11043.00	-53.29	RMS	38.90	-22.79	0.43	-95.23	25.40	-40.00	-13.29
3	14725.00	-51.68	RMS	39.90	-22.43	0.47	-95.23	25.61	-40.00	-11.68

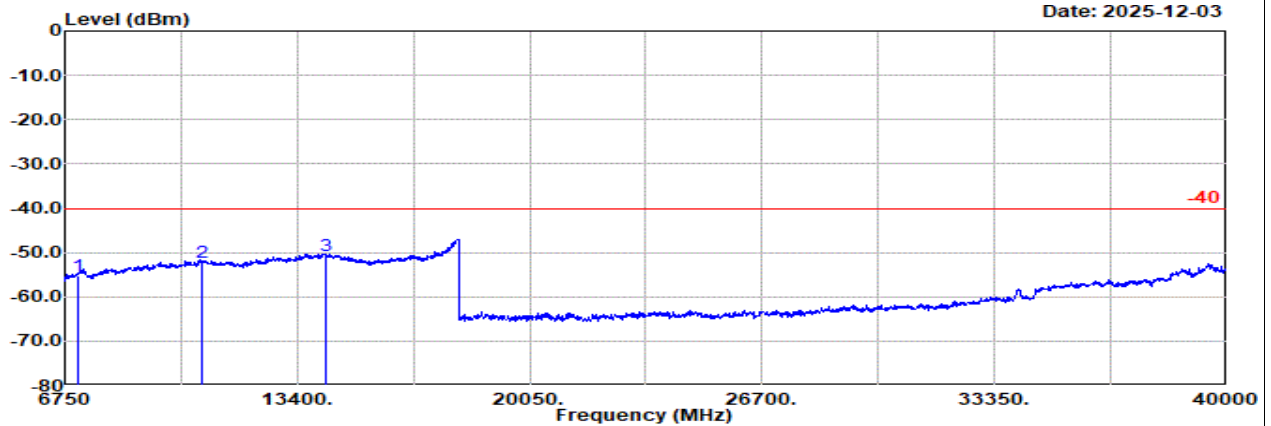


Ant. 0+2

Part 96 Mode 5

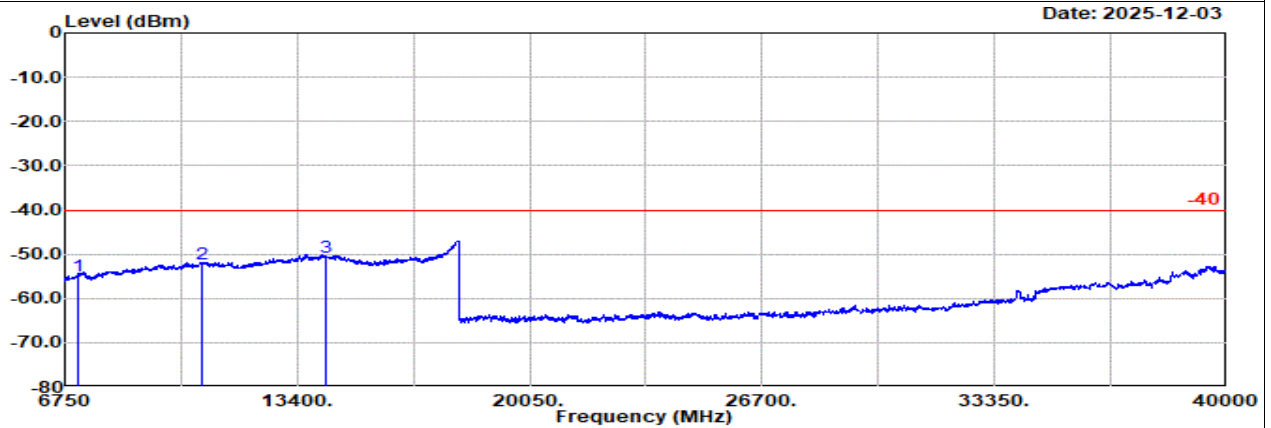
NR SA n48 MIMO 20M Ch637334 1RB1 QPSK

L



Site : 03CH20-HY
Condition: -40 1m BBHA9170_1223_250702 Horizontal
NR SA n48 20M Ch637334 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-55.10	RMS	36.41	-22.91	1.10	-95.23	25.53	-40.00	-15.10	Horizontal	
2	10653.00	-52.31	RMS	39.19	-22.82	0.45	-95.23	26.10	-40.00	-12.31	Horizontal	
3	14205.00	-50.64	RMS	40.28	-22.26	0.56	-95.23	26.01	-40.00	-10.64	Horizontal	



Site : 03CH20-HY
Condition: -40 1m BBHA9170_1223_250702 Vertical
NR SA n48 20M Ch637334 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-54.90	RMS	36.41	-22.91	1.10	-95.23	25.73	-40.00	-14.90	Vertical	
2	10653.00	-52.15	RMS	39.19	-22.82	0.45	-95.23	26.26	-40.00	-12.15	Vertical	
3	14205.00	-50.61	RMS	40.28	-22.26	0.56	-95.23	26.04	-40.00	-10.61	Vertical	

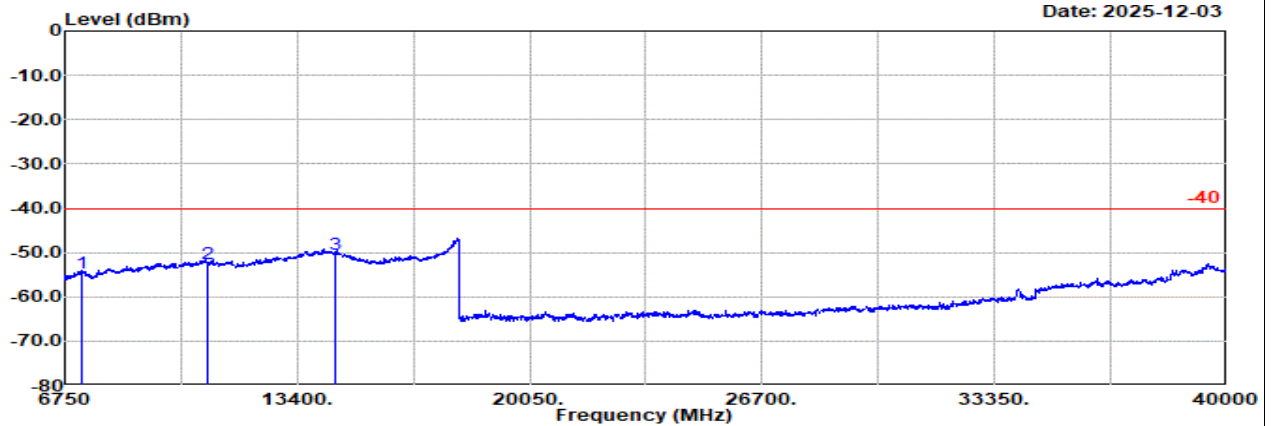


Ant. 0+2

Part 96 Mode 5

NR SA n48 MIMO 20M Ch641666 1RB1 QPSK

M

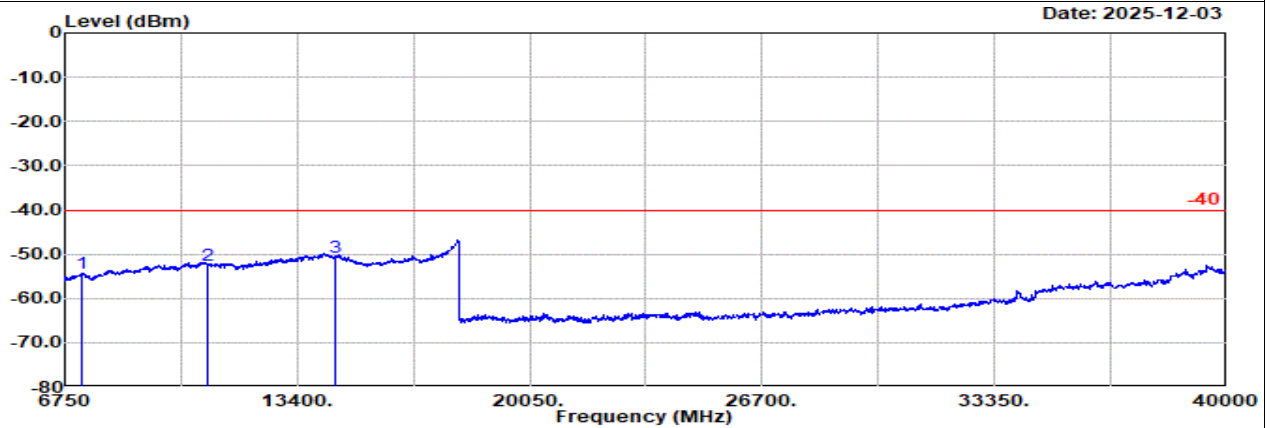


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: NR SA n48 20M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-54.54	RMS	36.93	-22.89	1.00	-95.23	25.65	-40.00	-14.54	Horizontal	
2	10848.00	-52.47	RMS	39.00	-22.79	0.44	-95.23	26.11	-40.00	-12.47	Horizontal	
3	14465.00	-50.32	RMS	39.96	-22.31	0.51	-95.23	26.75	-40.00	-10.32	Horizontal	



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: NR SA n48 20M Ch641666 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-54.47	RMS	36.93	-22.89	1.00	-95.23	25.72	-40.00	-14.47	Vertical	
2	10848.00	-52.57	RMS	39.00	-22.79	0.44	-95.23	26.01	-40.00	-12.57	Vertical	
3	14465.00	-50.62	RMS	39.96	-22.31	0.51	-95.23	26.45	-40.00	-10.62	Vertical	

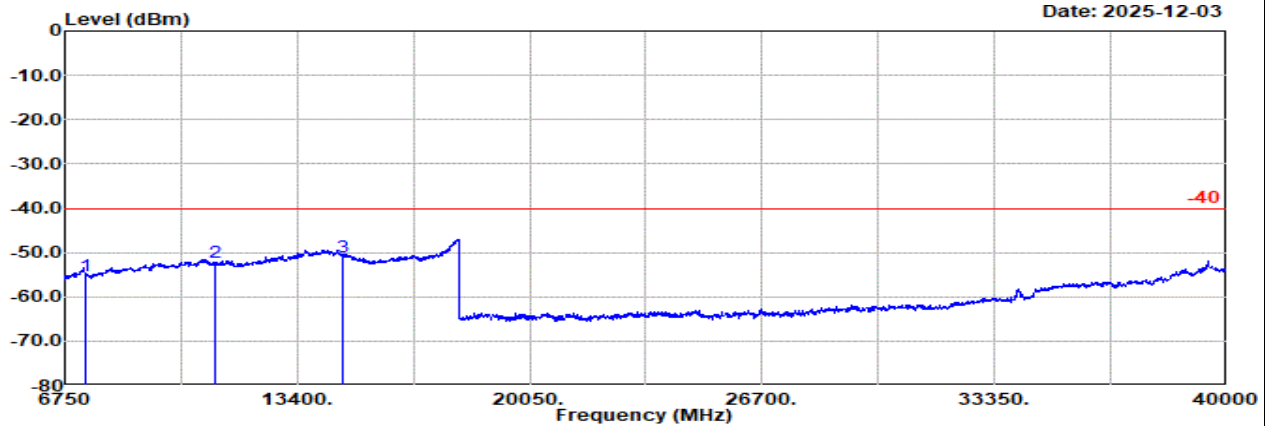


Ant. 0+2

Part 96 Mode 5

NR SA n48 MIMO 20M Ch646000 1RB1 QPSK

H

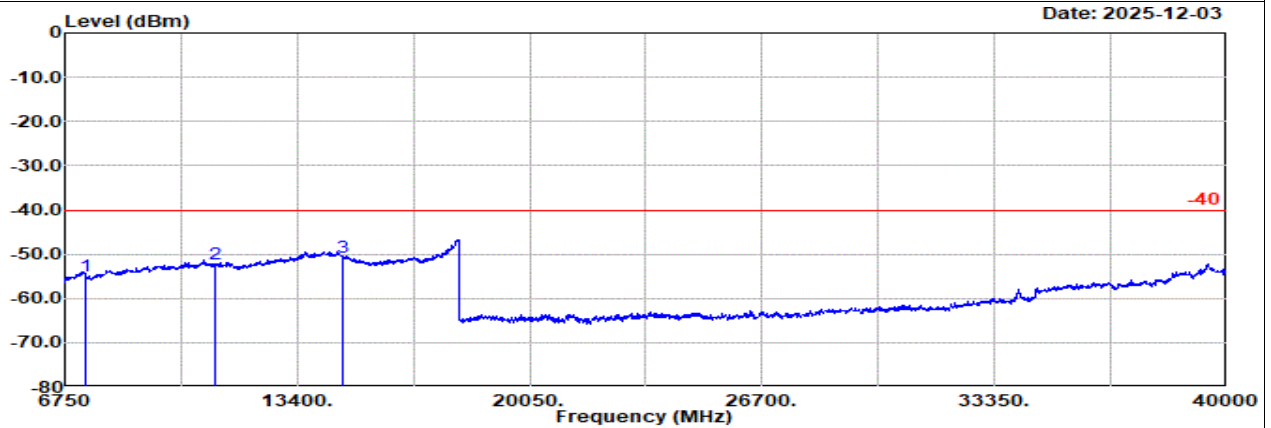


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: NR SA n48 20M Ch646000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
				Factor	1							
	MHz	dBm				dB	dB	dBuV	dBm	dB		
1	7362.00	-55.12	RMS	36.55	-22.86	0.82	-95.23	25.60	-40.00	-15.12		Horizontal
2	11043.00	-52.24	RMS	38.90	-22.79	0.43	-95.23	26.45	-40.00	-12.24		Horizontal
3	14725.00	-50.91	RMS	39.90	-22.43	0.47	-95.23	26.38	-40.00	-10.91		Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: NR SA n48 20M Ch646000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
				Factor	1							
	MHz	dBm				dB	dB	dBuV	dBm	dB		
1	7362.00	-54.98	RMS	36.55	-22.86	0.82	-95.23	25.74	-40.00	-14.98		Vertical
2	11043.00	-52.37	RMS	38.90	-22.79	0.43	-95.23	26.32	-40.00	-12.37		Vertical
3	14725.00	-50.81	RMS	39.90	-22.43	0.47	-95.23	26.48	-40.00	-10.81		Vertical

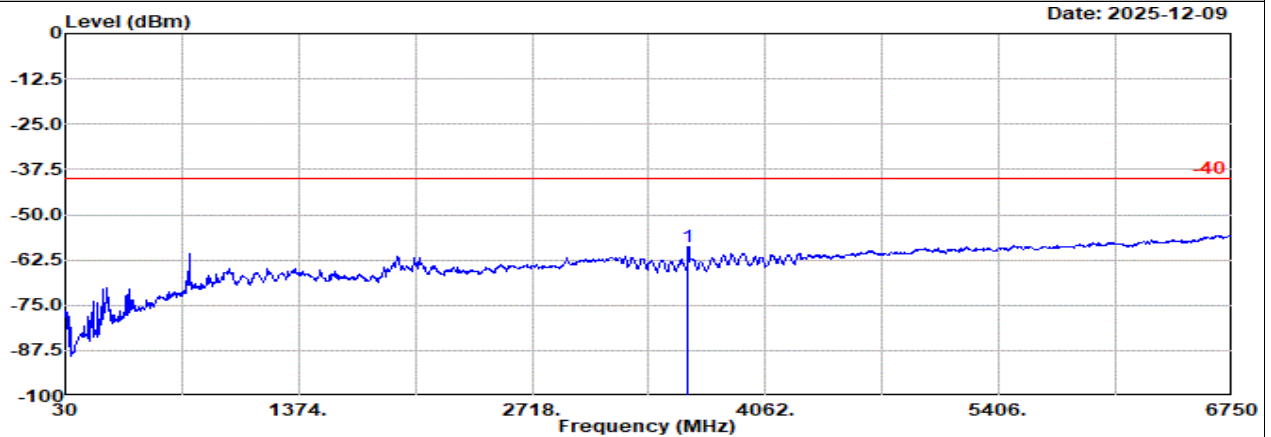


Ant. 3

Part 96 Mode 3

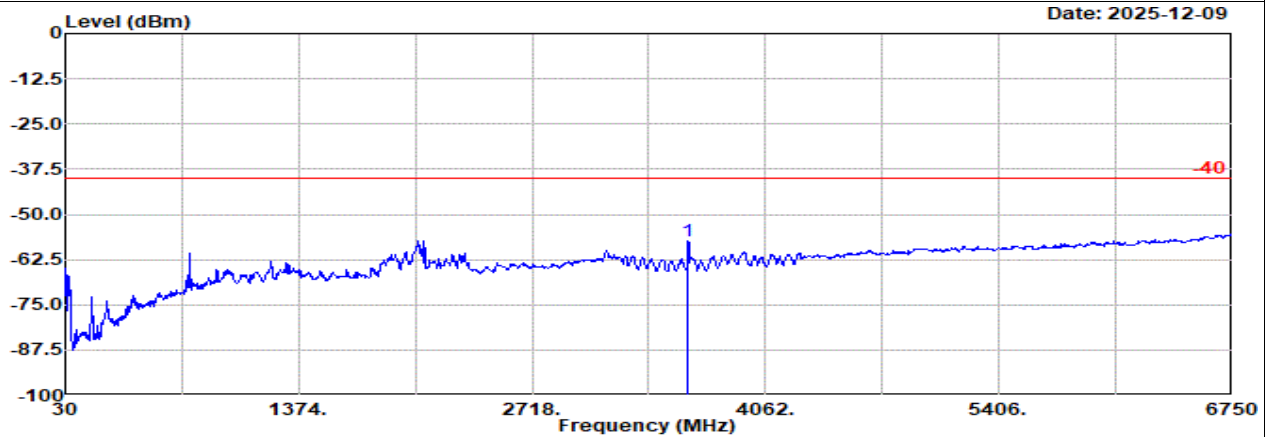
NR SA n48 20M Ch641666 1RB1 QPSK

M



Site : 03CH20-HY
Condition: -40 3m HF_9120D_02360_251105 Horizontal
: NR SA n48 20M Ch641666 1RB1 BPSK
: #1 is fundamental signal can be ignored

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3616.25	-58.71	RMS	29.63	-25.57	0.00	-95.23	32.46	-40.00	-18.71 Horizontal



Site : 03CH20-HY
Condition: -40 3m HF_9120D_02360_251105 Vertical
: NR SA n48 20M Ch641666 1RB1 BPSK
: #1 is fundamental signal can be ignored

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3616.25	-57.25	RMS	29.63	-25.57	0.00	-95.23	33.92	-40.00	-17.25 Vertical