



Conducted Spurious Emission

FR1 n77C / 15M90M/ DFT-S OFDM / QPSK 1RBmax_1RB0

Lowest Channel

Middle Channel

Highest Channel



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng, Ray Lung	Temperature :	21.1 ~ 25.7°C
		Relative Humidity :	55.8 ~ 63.2%

B1.Summary of each worse mode

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
23	Part 24E	EN-DC B7+n25	M	7459	-55.62	RMS	37.22	-21.91	1.10	-95.23	23.20	-13.00	-42.62	H	Ant 1+2
24	Part 24E	EN-DC B7+n25	M	7459	-55.43	RMS	37.22	-21.91	1.10	-95.23	23.39	-13.00	-42.43	H	Ant 2+1
25	Part 24E	NR SA n25	M	5594	-40.57	RMS	33.35	-22.09	1.54	-95.23	41.86	-13.00	-27.57	V	Ant 6
26	Part 24E	NR SA n25 UL MIMO	M	5594	-43.68	RMS	33.35	-22.09	1.54	-95.23	38.75	-13.00	-30.68	H	Ant 6+1
32	Part 27N	NR SA n71	M	1991	-63.79	RMS	26.20	-25.12	1.02	-95.23	29.34	-13.00	-50.79	V	Ant 1
33	Part 27N	EN-DC B48+n71	M	1991	-63.06	RMS	26.20	-25.12	1.02	-95.23	30.07	-13.00	-50.06	H	Ant 7+1
48	Part 27L	NR SA n66	M	5174	-53.43	RMS	32.75	-21.82	1.05	-95.23	29.82	-13.00	-40.43	V	Ant 6
49	Part 27L	NR SA n70	M	5087	-52.23	RMS	32.70	-21.81	1.03	-95.23	31.08	-13.00	-39.23	H	Ant 6
50	Part 27L	NR SA n66 UL MIMO	M	5208	-49.55	RMS	32.77	-21.83	1.06	-95.23	33.68	-13.00	-36.55	V	Ant 6+1
51	Part 27L	EN-DC B48+n66	M	5175	-48.54	RMS	32.75	-21.82	1.05	-95.23	34.71	-13.00	-35.54	H	Ant 5+6
52	Part 27L	EN-DC B48+n66	M	5170	-50.36	RMS	32.74	-21.82	1.05	-95.23	32.90	-13.00	-37.36	V	Ant 7+1
71	Part 27M	EN-DC B12+n7	M	7545	-51.34	RMS	37.12	-21.89	1.11	-95.23	27.55	-25.00	-26.34	V	Ant 0+6
72	Part 27M	EN-DC B12+n7	M	7538	-48.26	RMS	37.15	-21.89	1.11	-95.23	30.60	-25.00	-23.26	V	Ant 0+1
73	Part 27M	EN-DC B25+n41	M	7711	-52.72	RMS	37.06	-22.04	1.08	-95.23	26.41	-25.00	-27.72	H	Ant 1+2
74	Part 27M	EN-DC B25+n41	M	7712	-47.68	RMS	37.05	-22.05	1.08	-95.23	31.47	-25.00	-22.68	V	Ant 2+0
77	Part 27D	NR SA n30	M	4612	-51.28	RMS	31.85	-22.38	2.71	-95.23	31.77	-40.00	-11.28	H	6
78	Part 27D	NR SA n30	M	9223	-53.51	RMS	37.00	-21.80	1.57	-95.23	24.95	-40.00	-13.51	V	1
79	Part 27D	NR SA n30 UL MIMO	M	9223	-53.48	RMS	37.00	-21.80	1.57	-95.23	24.98	-40.00	-13.48	H	6+1
82	Part 27Q	NR SA n77	M	10353	-38.90	RMS	37.50	-22.44	1.28	-95.23	39.99	-13.00	-25.90	V	Ant 7
83	Part 27Q	NR SA n77	M	10353	-39.76	RMS	37.50	-22.44	1.28	-95.23	39.13	-13.00	-26.76	H	Ant 8
84	Part 27Q	NR SA n77 UL MIMO	M	10353	-36.85	RMS	37.50	-22.44	1.28	-95.23	42.04	-13.00	-23.85	H	Ant 4+5
85	Part 27Q	EN-DC B30+n77	M	10353	-35.66	RMS	37.50	-22.44	1.28	-95.23	43.23	-13.00	-22.66	V	Ant 2+7
86	Part 27Q	EN-DC B30+n77	M	10353	-35.47	RMS	37.50	-22.44	1.28	-95.23	43.42	-13.00	-22.47	H	Ant 1+5
87	Part 27O	NR SA n77	M	11613	-41.87	RMS	38.97	-22.44	1.38	-95.23	35.45	-13.00	-28.87	V	Ant 7



88	Part 27O	NR SA n77	M	11613	-38.14	RMS	38.97	-22.44	1.38	-95.23	39.18	-13.00	-25.14	H	Ant 5
89	Part 27O	NR SA n77 UL MIMO	M	11613	-44.62	RMS	38.97	-22.44	1.38	-95.23	32.70	-13.00	-31.62	V	Ant 4+5
90	Part 27O	CA n77C	M	11523	-44.69	RMS	38.99	-22.42	1.37	-95.23	32.60	-13.00	-31.69	H	Ant 7
91	Part 27O	CA n77C	M	11523	-44.15	RMS	38.99	-22.42	1.37	-95.23	33.14	-13.00	-31.15	V	Ant 5
92	Part 27O	EN-DC B30+n77	M	11613	-41.38	RMS	38.97	-22.44	1.38	-95.23	35.94	-13.00	-28.38	H	Ant 2+4
93	Part 27O	EN-DC B30+n77	M	11613	-38.48	RMS	38.97	-22.44	1.38	-95.23	38.84	-13.00	-25.48	V	Ant 1+5
36	Part 90R	NR SA n14	M	1581	-50.75	RMS	24.61	-25.32	1.05	-95.23	44.14	-42.15	-8.60	H	Ant 1
37	Part 90R	NR SA n14	M	1581	-51.64	RMS	24.61	-25.32	1.05	-95.23	43.25	-42.15	-9.49	H	Ant 1

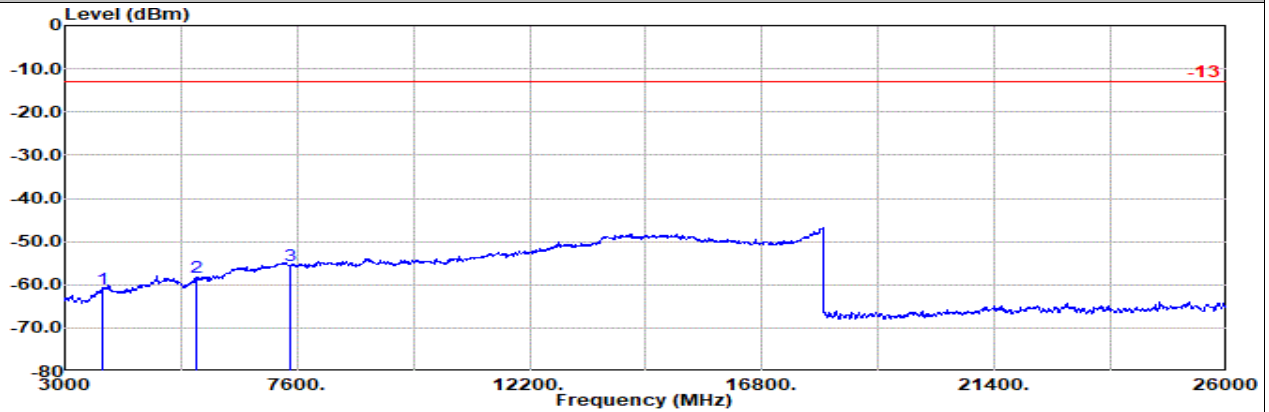


Ant 1+2

Part 24E Mode 23

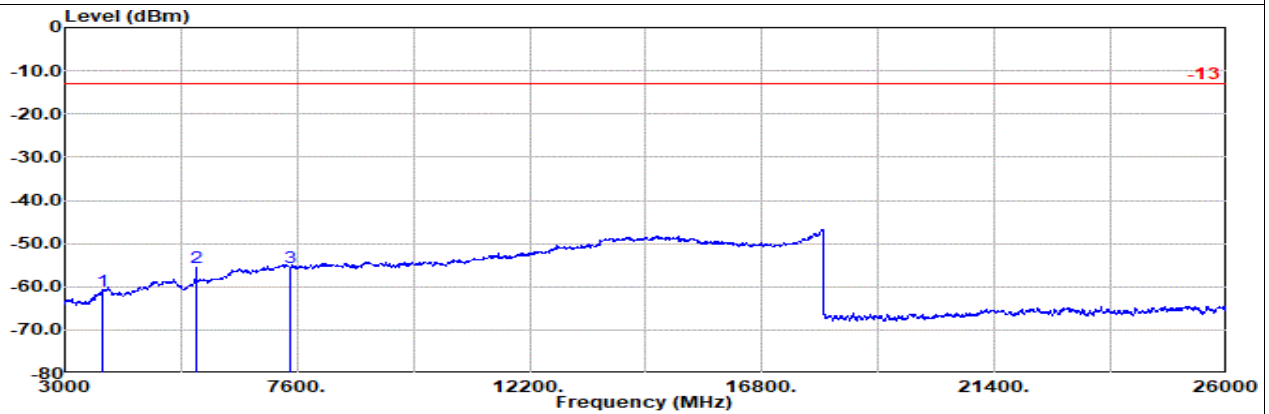
EN-DC B7+n25 20M + 40M Ch21100 1RB0 QPSK + Ch376500 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: LTE Band 7 20M Ch21100 1RB0 QPSK
: SA n25 40M Ch376500 1RB1 BPSK

	Freq	Level	Detector	Ant		Filter	EIRPCF		Readin	Limit	Margin		Pol
				Factor	1								
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB		
1	3729.00	-61.05	RMS		30.07	-23.18	1.27	-95.23	26.02	-13.00	-48.05		Horizontal
2	5594.00	-58.31	RMS		33.35	-22.09	1.54	-95.23	24.12	-13.00	-45.31		Horizontal
3	7459.00	-55.62	RMS		37.22	-21.91	1.10	-95.23	23.20	-13.00	-42.62		Horizontal



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: LTE Band 7 20M Ch21100 1RB0 QPSK
: SA n25 40M Ch376500 1RB1 BPSK

	Freq	Level	Detector	Ant		Filter	EIRPCF		Readin	Limit	Margin		Pol
				Factor	1								
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB		
1	3729.00	-61.07	RMS		30.07	-23.18	1.27	-95.23	26.00	-13.00	-48.07		Vertical
2	5594.00	-55.67	RMS		33.35	-22.09	1.54	-95.23	26.76	-13.00	-42.67		Vertical
3	7459.00	-55.64	RMS		37.22	-21.91	1.10	-95.23	23.18	-13.00	-42.64		Vertical

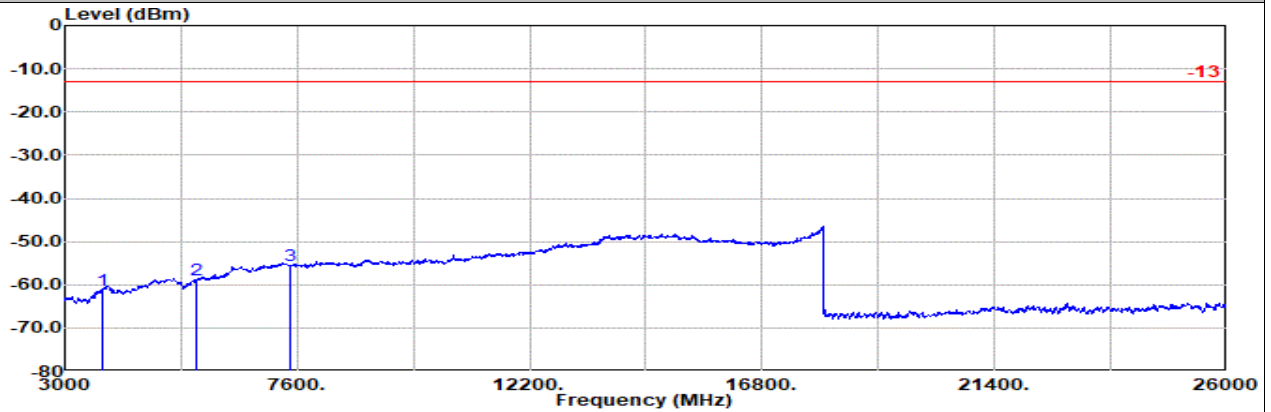


Ant 2+1

Part 24E Mode 24

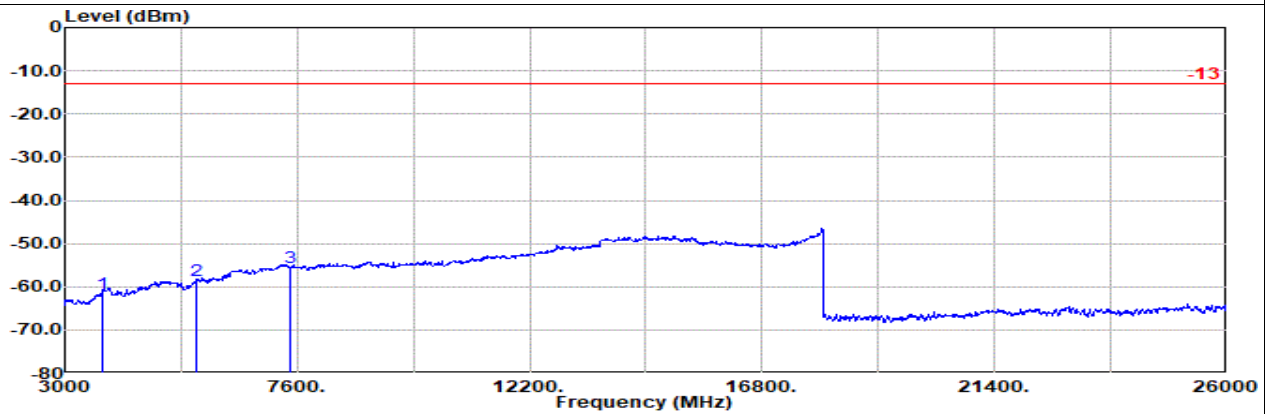
EN-DC B7+n25 20M + 40M Ch21100 1RB0 QPSK + Ch376500 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: LTE Band 7 20M Ch21100 1RB0 QPSK
: SA n25 40M Ch376500 1RB1 BPSK

	Freq	Level	Detector	Ant		Filter	EIRPCF		Readin	Limit	Margin		Pol
				Factor	1								
	MHz	dBm											
1	3729.00	-61.19	RMS	30.07	-23.18	1.27	-95.23		25.88	-13.00	-48.19		Horizontal
2	5594.00	-58.93	RMS	33.35	-22.09	1.54	-95.23		23.50	-13.00	-45.93		Horizontal
3	7459.00	-55.43	RMS	37.22	-21.91	1.10	-95.23		23.39	-13.00	-42.43		Horizontal



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: LTE Band 7 20M Ch21100 1RB0 QPSK
: SA n25 40M Ch376500 1RB1 BPSK

	Freq	Level	Detector	Ant		Filter	EIRPCF		Readin	Limit	Margin		Pol
				Factor	1								
	MHz	dBm											
1	3729.00	-61.48	RMS	30.07	-23.18	1.27	-95.23		25.59	-13.00	-48.48		Vertical
2	5594.00	-58.64	RMS	33.35	-22.09	1.54	-95.23		23.79	-13.00	-45.64		Vertical
3	7459.00	-55.55	RMS	37.22	-21.91	1.10	-95.23		23.27	-13.00	-42.55		Vertical

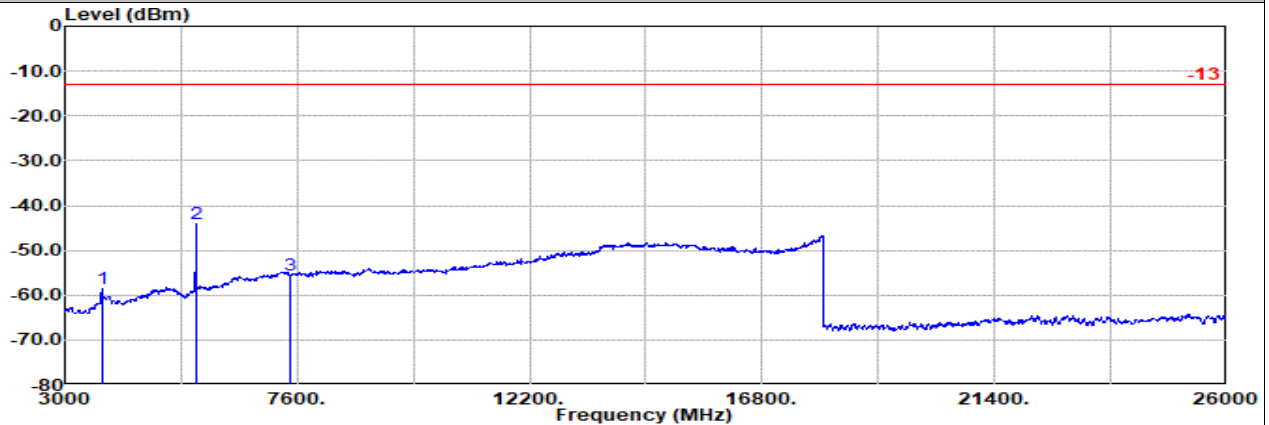


Ant 6

Part 24E Mode 25

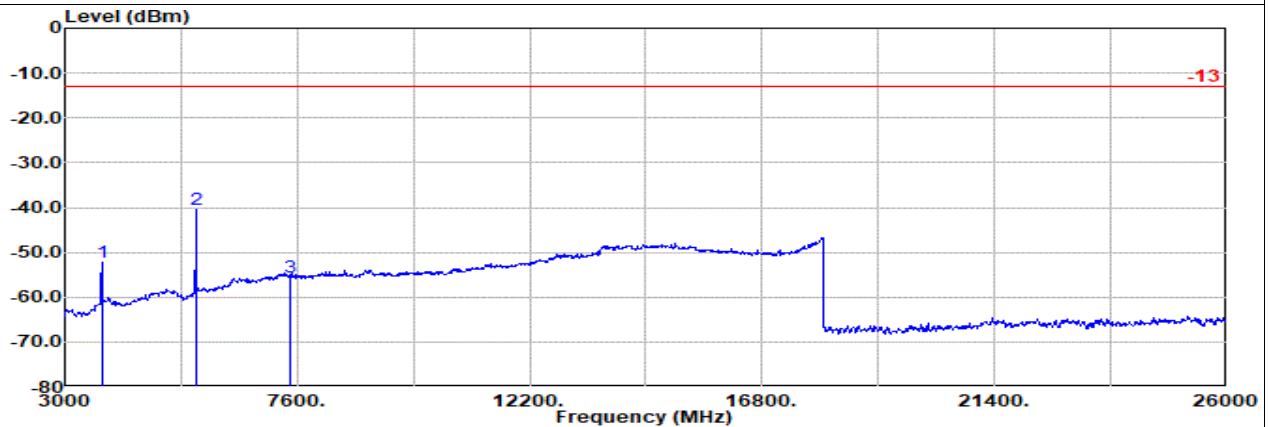
NR SA n25 40M Ch376500 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: SA n25 40M Ch376500 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin Pol	
				Factor	1						
	MHz	dBm									
1	3729.00	-58.61	RMS	30.07	-23.18	1.27	-95.23	28.46	-13.00	-45.61	Horizontal
2	5594.00	-44.14	RMS	33.35	-22.09	1.54	-95.23	38.29	-13.00	-31.14	Horizontal
3	7459.00	-55.65	RMS	37.22	-21.91	1.10	-95.23	23.17	-13.00	-42.65	Horizontal



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: SA n25 40M Ch376500 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin Pol	
				Factor	1						
	MHz	dBm									
1	3729.00	-52.21	RMS	30.07	-23.18	1.27	-95.23	34.86	-13.00	-39.21	Vertical
2	5594.00	-40.57	RMS	33.35	-22.09	1.54	-95.23	41.86	-13.00	-27.57	Vertical
3	7459.00	-55.56	RMS	37.22	-21.91	1.10	-95.23	23.26	-13.00	-42.56	Vertical

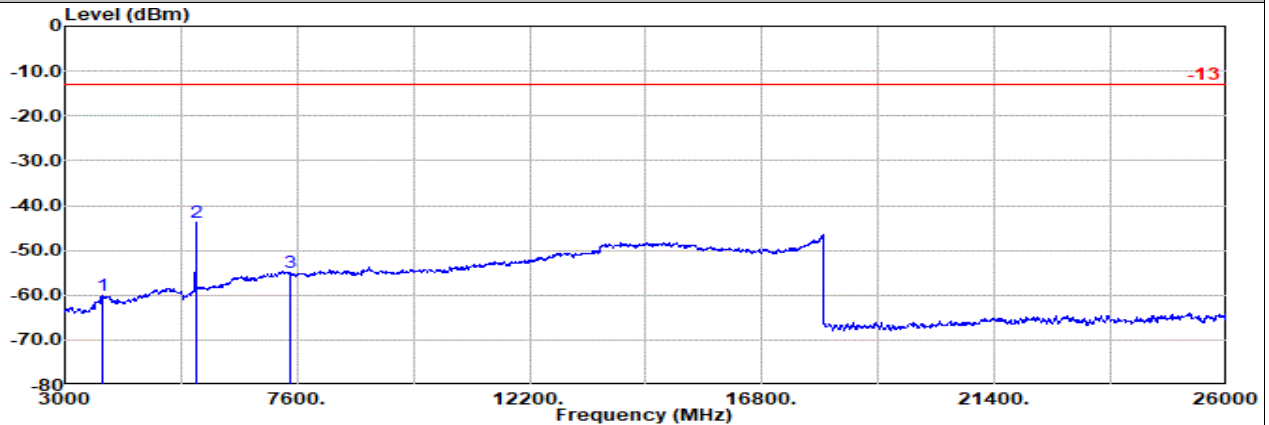


Ant 6+1

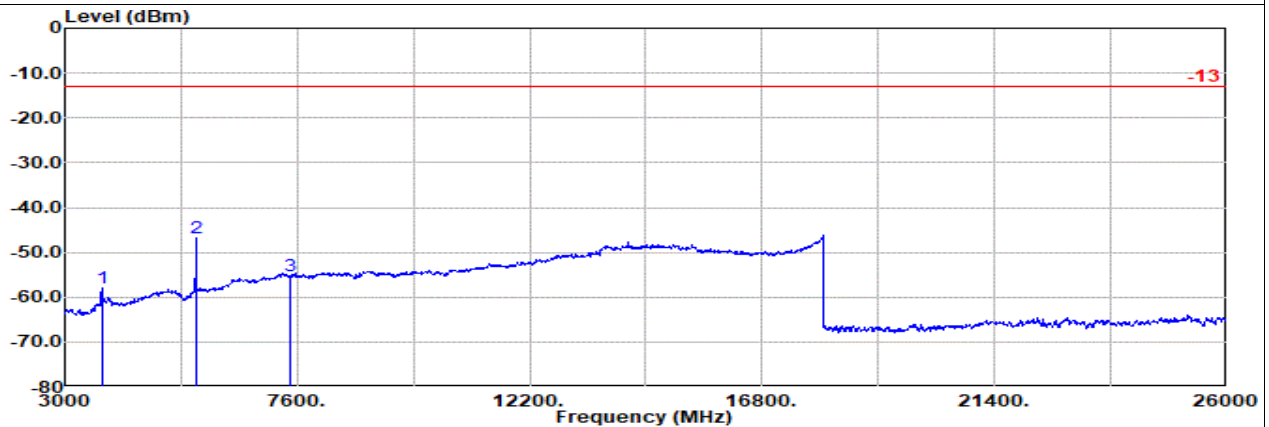
Part 24E Mode 26

NR SA n25 UL MIMO 40M Ch376500 1RB1 BPSK

M



	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	3729.00	-60.18	RMS		30.07	-23.18	1.27	-95.23	26.89	-13.00	-47.18		Horizontal
2	5594.00	-43.68	RMS		33.35	-22.09	1.54	-95.23	38.75	-13.00	-30.68		Horizontal
3	7459.00	-55.08	RMS		37.22	-21.91	1.10	-95.23	23.74	-13.00	-42.08		Horizontal



	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	3729.00	-57.98	RMS		30.07	-23.18	1.27	-95.23	29.09	-13.00	-44.98		Vertical
2	5594.00	-46.65	RMS		33.35	-22.09	1.54	-95.23	35.78	-13.00	-33.65		Vertical
3	7459.00	-55.23	RMS		37.22	-21.91	1.10	-95.23	23.59	-13.00	-42.23		Vertical

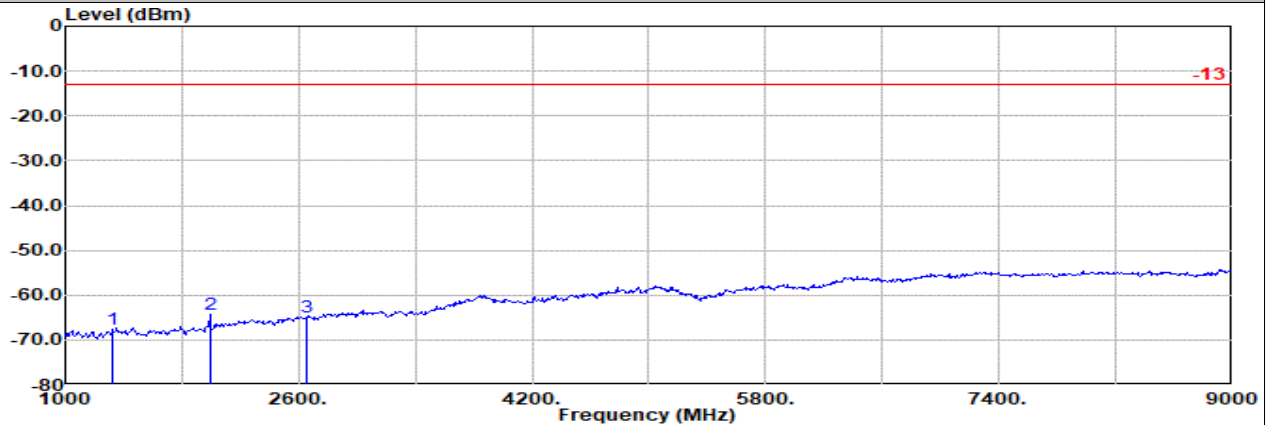


Ant 1

Part 27N Mode 32

NR SA n71 35M Ch136100 1RB1 BPSK

M

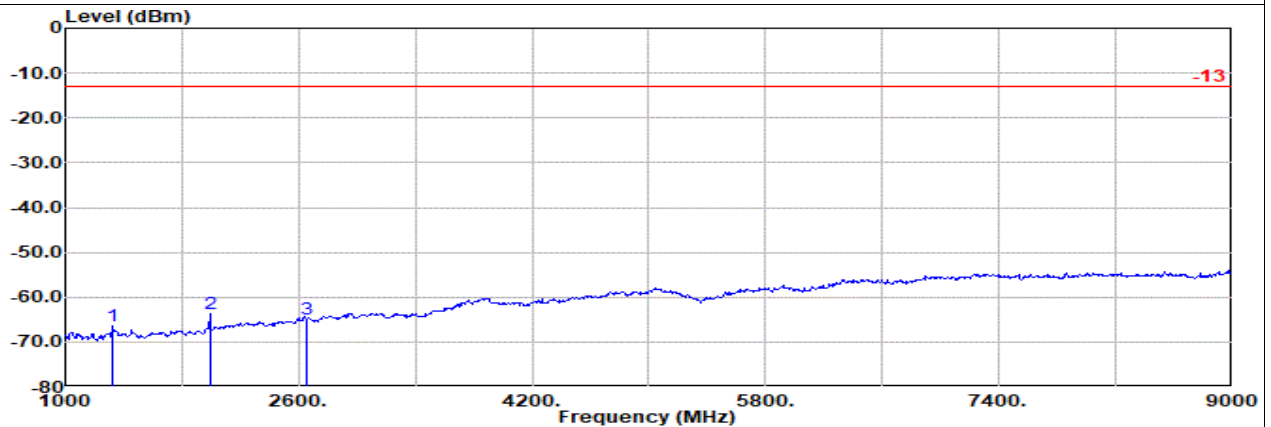


Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: NR SA n71 35M Ch136100 1RB1 BPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1			g	dBm		
	MHz	dBm		dB/m	dB	dB		dBuV	dBm	dB	
1	1327.00	-67.61	RMS	24.53	-25.83	1.23	-95.23	27.69	-13.00	-54.61	Horizontal
2	1991.00	-64.19	RMS	26.20	-25.12	1.02	-95.23	28.94	-13.00	-51.19	Horizontal
3	2655.00	-65.00	RMS	27.55	-24.04	0.93	-95.23	25.79	-13.00	-52.00	Horizontal



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: NR SA n71 35M Ch136100 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb		Filter	EIRPCF		Readin	Limit	Margin		Pol
	MHz	dBm		Factor	1		dB	dB	g	dBm	dB		
1	1327.00	-66.33	RMS	24.53	-25.83	1.23	-95.23	28.97	-13.00	-53.33	Vertical		
2	1991.00	-63.79	RMS	26.20	-25.12	1.02	-95.23	29.34	-13.00	-50.79	Vertical		
3	2655.00	-64.83	RMS	27.55	-24.04	0.93	-95.23	25.96	-13.00	-51.83	Vertical		

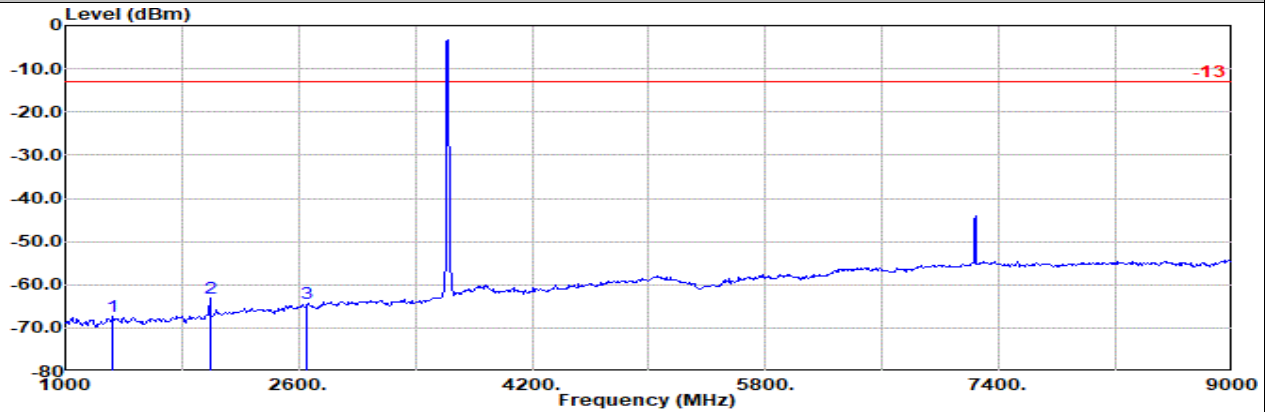


Ant 7+1

Part 27N Mode 33

EN-DC B48+n71 20M + 35M Ch55990 1RB0 QPSK + Ch136100 1RB1 BPSK

M



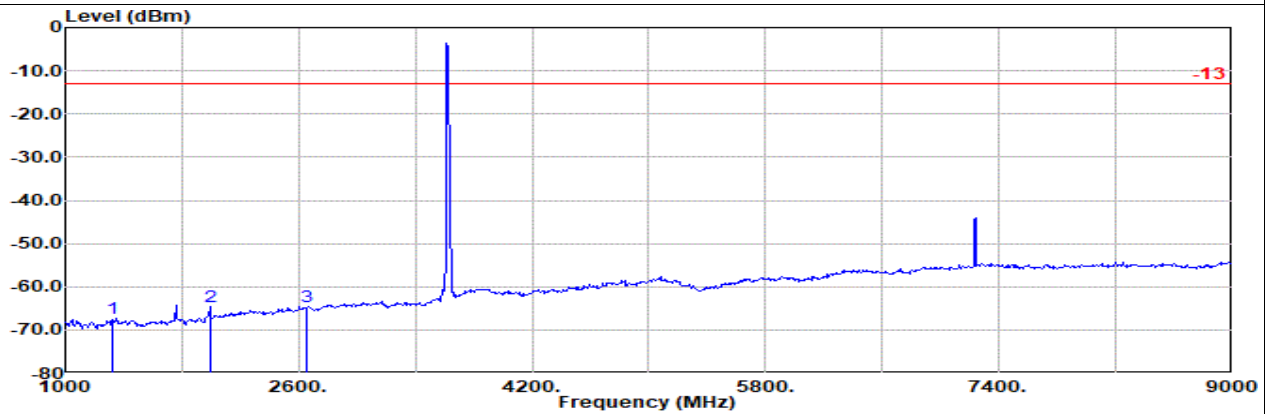
Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: LTE B48 20M Ch55990 1RB0 QPSK

: NR SA n71 35M Ch136100 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	1327.00	-67.22	RMS	24.53	-25.83	1.23	-95.23	28.08	-13.00	-54.22
2	1991.00	-63.06	RMS	26.20	-25.12	1.02	-95.23	30.07	-13.00	-50.06
3	2655.00	-64.38	RMS	27.55	-24.04	0.93	-95.23	26.41	-13.00	-51.38



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: LTE B48 20M Ch55990 1RB0 QPSK

: NR SA n71 35M Ch136100 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	1327.00	-67.34	RMS	24.53	-25.83	1.23	-95.23	27.96	-13.00	-54.34
2	1991.00	-64.61	RMS	26.20	-25.12	1.02	-95.23	28.52	-13.00	-51.61
3	2655.00	-64.54	RMS	27.55	-24.04	0.93	-95.23	26.25	-13.00	-51.54

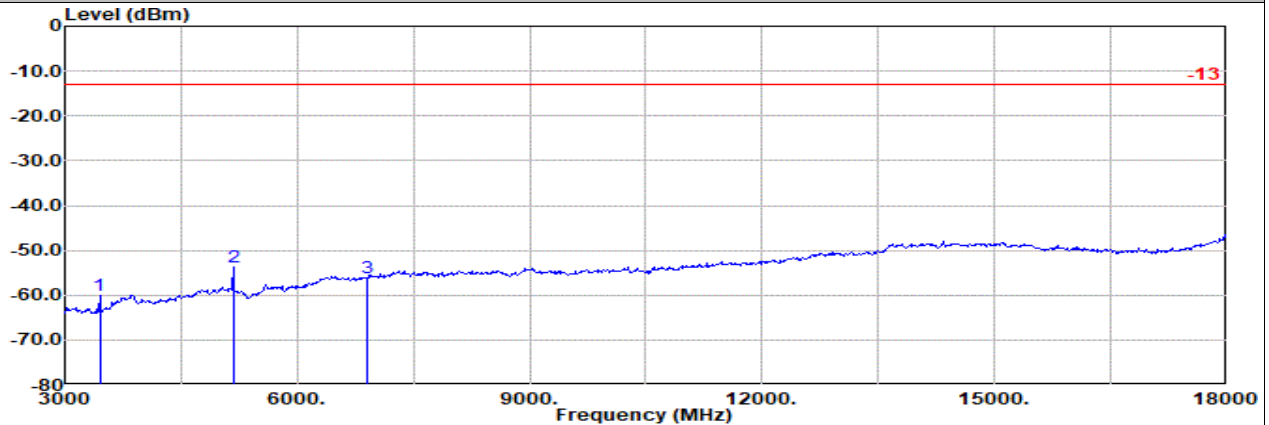


Ant 6

Part 27L Mode 48

NR SA n66 45M Ch349000 1RB1 BPSK

M

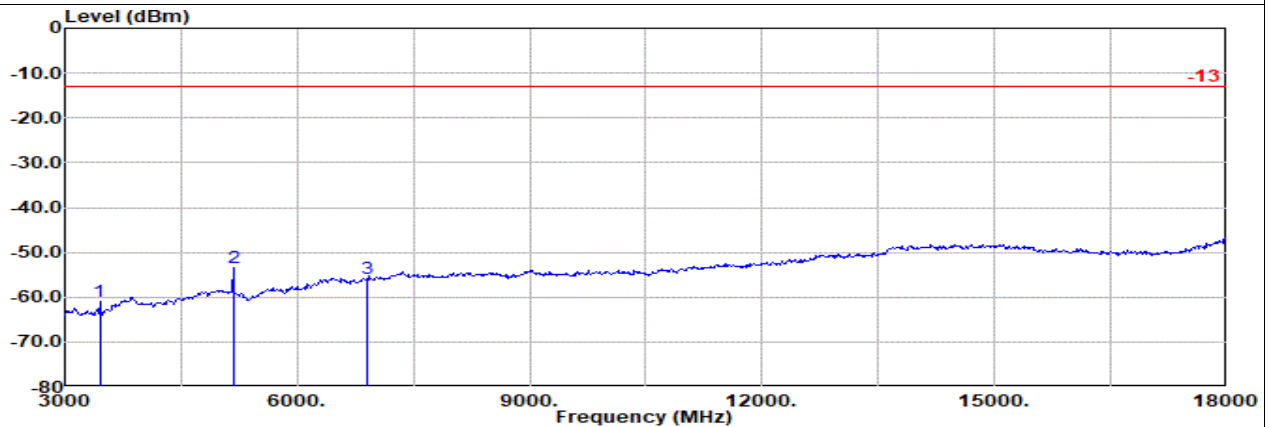


Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: SA n66 45M Ch349000 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3449.00	-60.18	RMS	28.79	-23.46	1.22	-95.23	28.50	-13.00	-47.18	Horizontal		
2	5174.00	-53.80	RMS	32.75	-21.82	1.05	-95.23	29.45	-13.00	-40.80	Horizontal		
3	6899.00	-56.16	RMS	36.80	-22.02	1.06	-95.23	23.23	-13.00	-43.16	Horizontal		



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: SA n66 45M Ch349000 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3449.00	-61.08	RMS	28.79	-23.46	1.22	-95.23	27.60	-13.00	-48.08	Vertical		
2	5174.00	-53.43	RMS	32.75	-21.82	1.05	-95.23	29.82	-13.00	-40.43	Vertical		
3	6899.00	-55.74	RMS	36.80	-22.02	1.06	-95.23	23.65	-13.00	-42.74	Vertical		

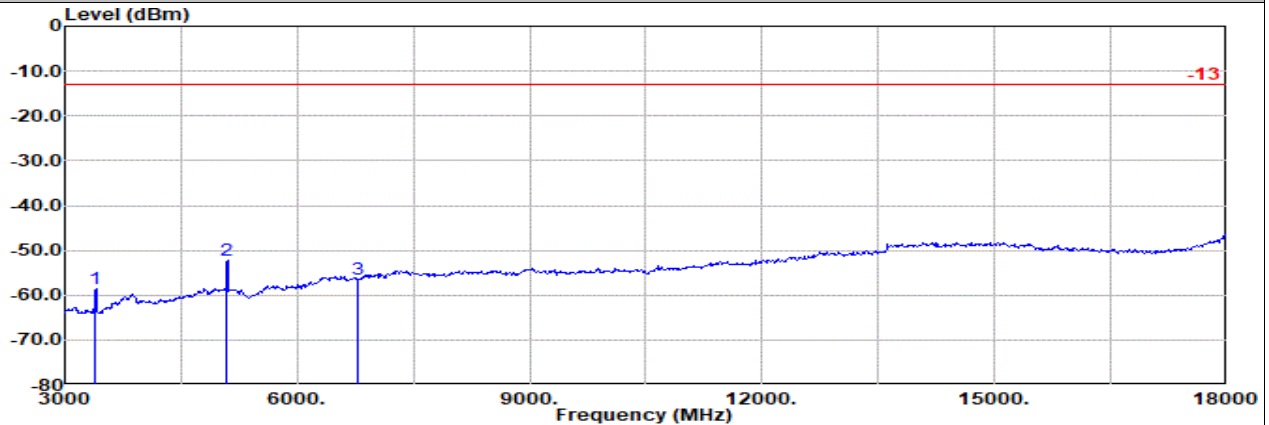


Ant 6

Part 27L Mode 49

NR SA n70 15M Ch340500 1RB1 BPSK

M

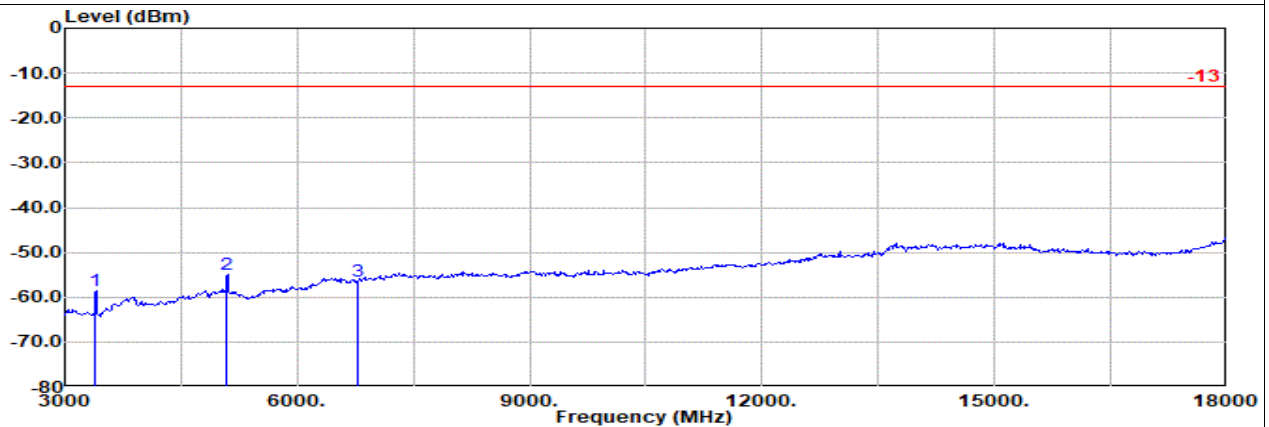


Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: SA n70 15M Ch340500 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3391.00	-58.69	RMS	28.48	-23.51	1.25	-95.23	30.32	-13.00	-45.69	Horizontal		
2	5087.00	-52.23	RMS	32.70	-21.81	1.03	-95.23	31.08	-13.00	-39.23	Horizontal		
3	6783.00	-56.49	RMS	36.60	-22.00	1.05	-95.23	23.09	-13.00	-43.49	Horizontal		



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: SA n70 15M Ch340500 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3391.00	-58.63	RMS	28.48	-23.51	1.25	-95.23	30.38	-13.00	-45.63	Vertical		
2	5087.00	-54.97	RMS	32.70	-21.81	1.03	-95.23	28.34	-13.00	-41.97	Vertical		
3	6783.00	-56.40	RMS	36.60	-22.00	1.05	-95.23	23.18	-13.00	-43.40	Vertical		

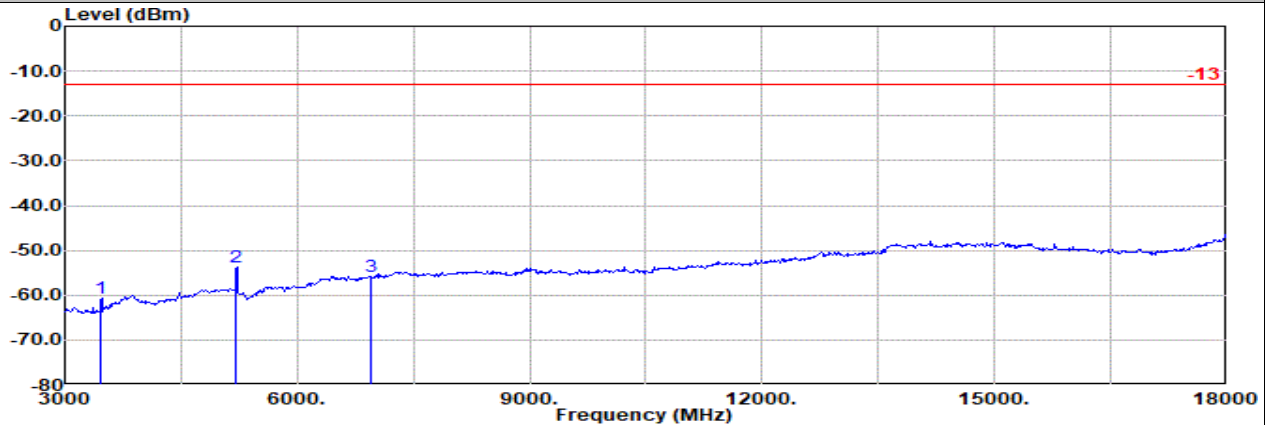


Ant 6+1

Part 27L Mode 50

NR SA n66 UL MIMO 20M Ch349000 1RB1 BPSK

M

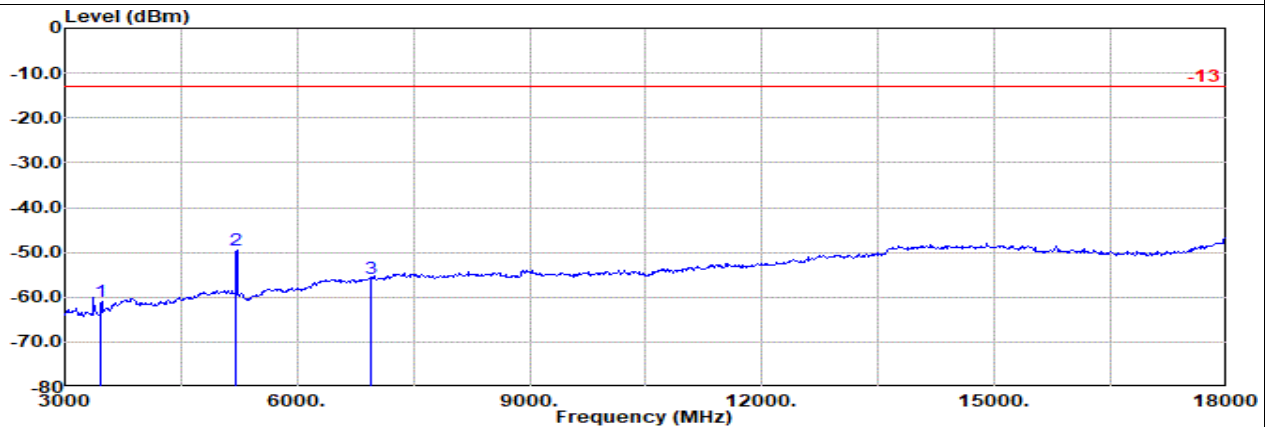


Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: SA n66 20M Ch349000 1RB1 BPSK MIMO

	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	3472.00	-60.72	RMS	28.89	-23.43	1.21	-95.23	27.84	-13.00	-47.72	Horizontal			
2	5208.00	-53.86	RMS	32.77	-21.83	1.06	-95.23	29.37	-13.00	-40.86	Horizontal			
3	6945.00	-55.87	RMS	36.71	-22.03	1.07	-95.23	23.61	-13.00	-42.87	Horizontal			



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: SA n66 20M Ch349000 1RB1 BPSK MIMO

	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	3472.00	-60.90	RMS	28.89	-23.43	1.21	-95.23	27.66	-13.00	-47.90	Vertical			
2	5208.00	-49.55	RMS	32.77	-21.83	1.06	-95.23	33.68	-13.00	-36.55	Vertical			
3	6945.00	-55.78	RMS	36.71	-22.03	1.07	-95.23	23.70	-13.00	-42.78	Vertical			

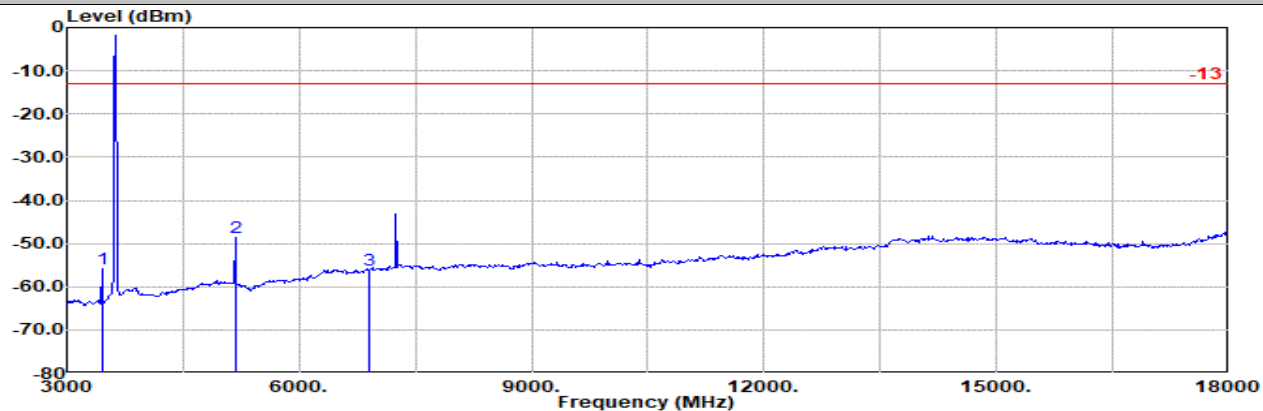


Ant 5+6

Part 27L Mode 51

EN-DC B48+n66 20M + 45M Ch55990 1RB0 QPSK + Ch349000 1RB1 BPSK

M



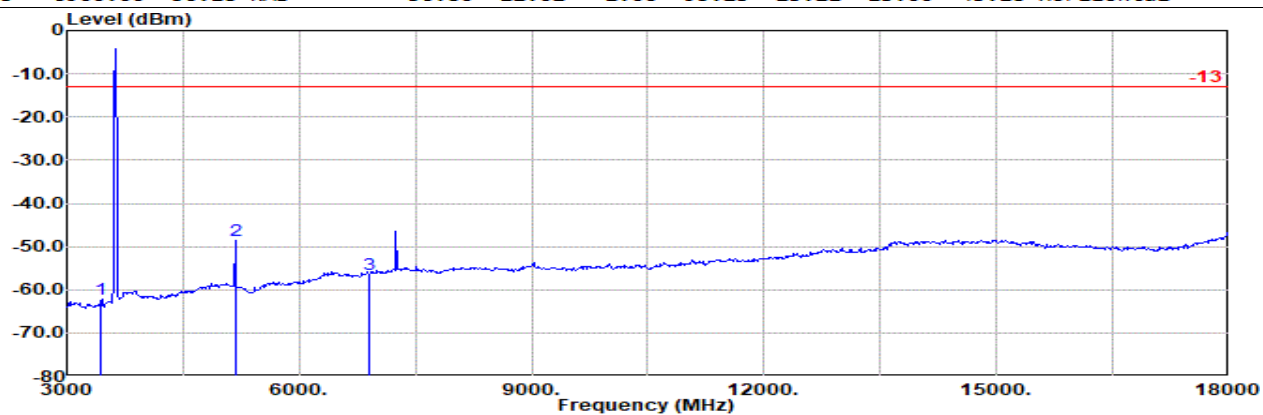
Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: LTE Band48 20M Ch55990 1RB0 QPSK

: SA n66 45M Ch349000 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	3450.00	-55.78	RMS	28.80	-23.46	1.22	-95.23	32.89	-13.00	-42.78 Horizontal
2	5175.00	-48.54	RMS	32.75	-21.82	1.05	-95.23	34.71	-13.00	-35.54 Horizontal
3	6900.00	-56.18	RMS	36.80	-22.02	1.06	-95.23	23.21	-13.00	-43.18 Horizontal



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: LTE Band48 20M Ch55990 1RB0 QPSK

: SA n66 45M Ch349000 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	3446.00	-62.09	RMS	28.78	-23.46	1.22	-95.23	26.60	-13.00	-49.09 Vertical
2	5170.00	-48.67	RMS	32.74	-21.82	1.05	-95.23	34.59	-13.00	-35.67 Vertical
3	6893.00	-56.33	RMS	36.77	-22.02	1.06	-95.23	23.09	-13.00	-43.33 Vertical

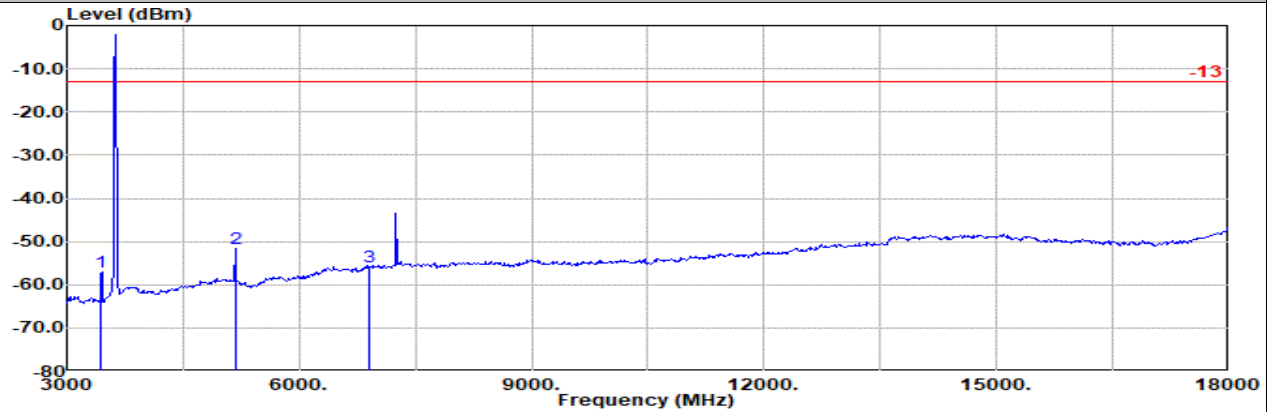


Ant 7+1

Part 27L Mode 52

EN-DC B48+n66 20M + 45M Ch55990 1RB0 QPSK + Ch349000 1RB1 BPSK

M



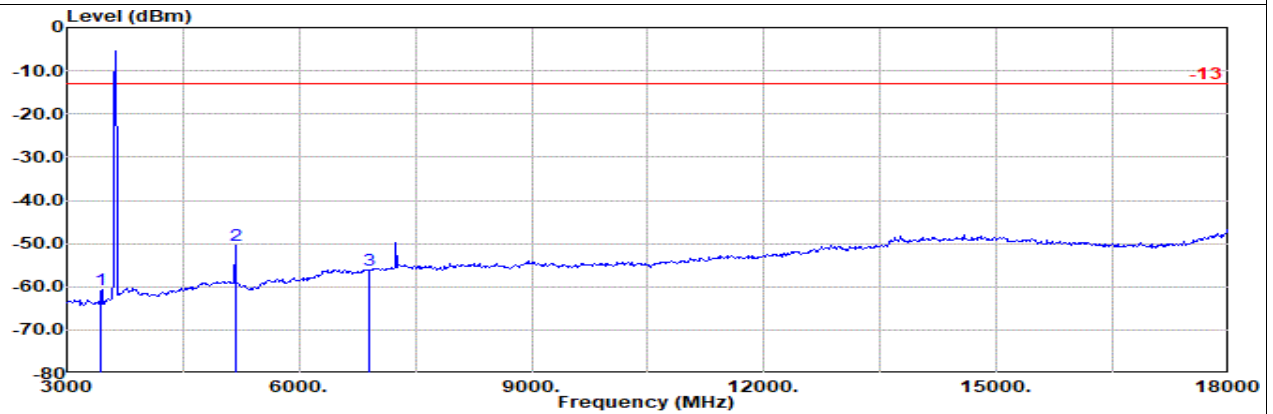
Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: LTE Band48 20M Ch55990 1RB0 QPSK

: SA n66 45M Ch349000 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	dB			dBuV	dBm		
1	3446.00	-56.98	RMS	28.78	-23.46	1.22	-95.23	31.71	-13.00	-43.98	Horizontal
2	5170.00	-51.69	RMS	32.74	-21.82	1.05	-95.23	31.57	-13.00	-38.69	Horizontal
3	6893.00	-55.86	RMS	36.77	-22.02	1.06	-95.23	23.56	-13.00	-42.86	Horizontal



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: LTE Band48 20M Ch55990 1RB0 QPSK

: SA n66 45M Ch349000 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	dB			dBuV	dBm		
1	3446.00	-60.77	RMS	28.78	-23.46	1.22	-95.23	27.92	-13.00	-47.77	Vertical
2	5170.00	-50.36	RMS	32.74	-21.82	1.05	-95.23	32.90	-13.00	-37.36	Vertical
3	6893.00	-56.25	RMS	36.77	-22.02	1.06	-95.23	23.17	-13.00	-43.25	Vertical

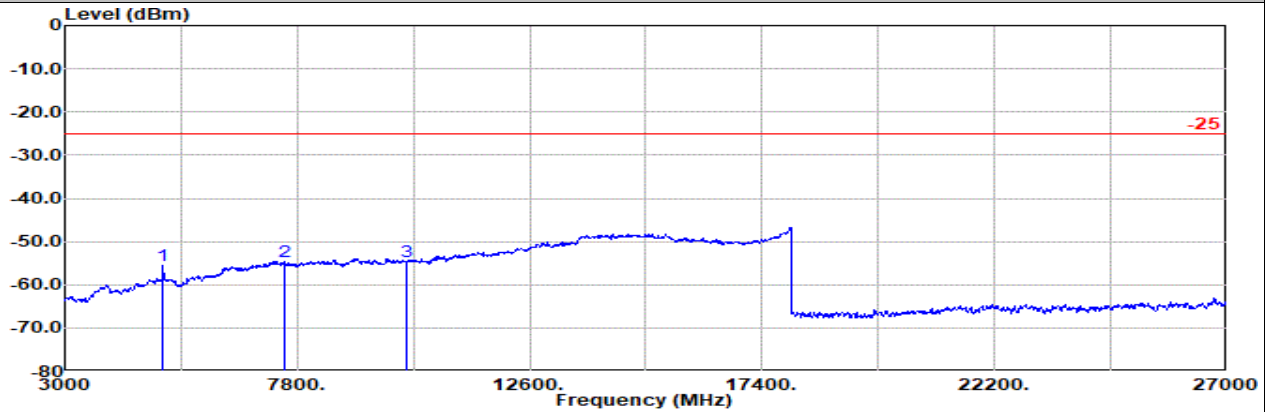


Ant 0+6

Part 27M Mode 71

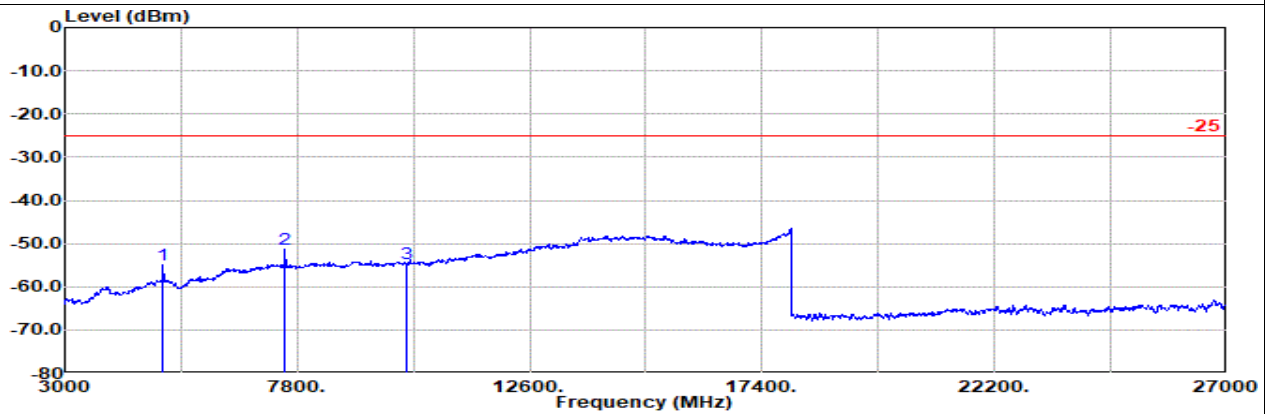
EN-DC B12+n7 10M + 50M Ch23095 1RB0 QPSK + Ch507000 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -25 1m SHF_1224_260812 Horizontal
: LTE B12 10M Ch23095 1RB0 QPSK
: SA n7 50M Ch507000 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	5025.00	-55.66	RMS		32.80	-21.80	1.01	-95.23	27.56	-25.00	-30.66	Horizontal
2	7538.00	-54.50	RMS		37.15	-21.89	1.11	-95.23	24.36	-25.00	-29.50	Horizontal
3	10051.00	-54.79	RMS		37.60	-22.23	1.23	-95.23	23.84	-25.00	-29.79	Horizontal



Site : 03CH22-HY
Condition: -25 1m SHF_1224_260812 Vertical
: LTE B12 10M Ch23095 1RB0 QPSK
: SA n7 50M Ch507000 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	5025.00	-54.86	RMS		32.80	-21.80	1.01	-95.23	28.36	-25.00	-29.86	Vertical
2	7545.00	-51.34	RMS		37.12	-21.89	1.11	-95.23	27.55	-25.00	-26.34	Vertical
3	10051.00	-54.67	RMS		37.60	-22.23	1.23	-95.23	23.96	-25.00	-29.67	Vertical

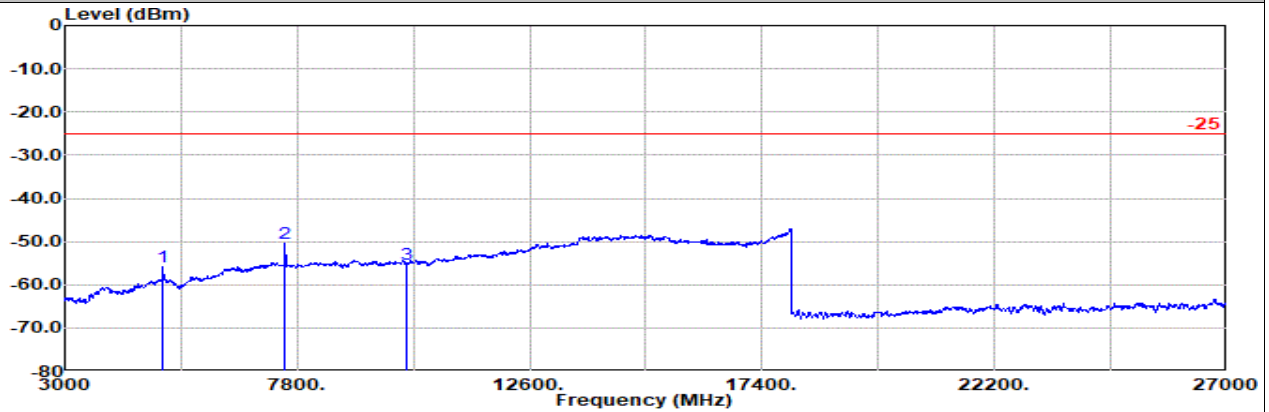


Ant 0+1

Part 27M Mode 72

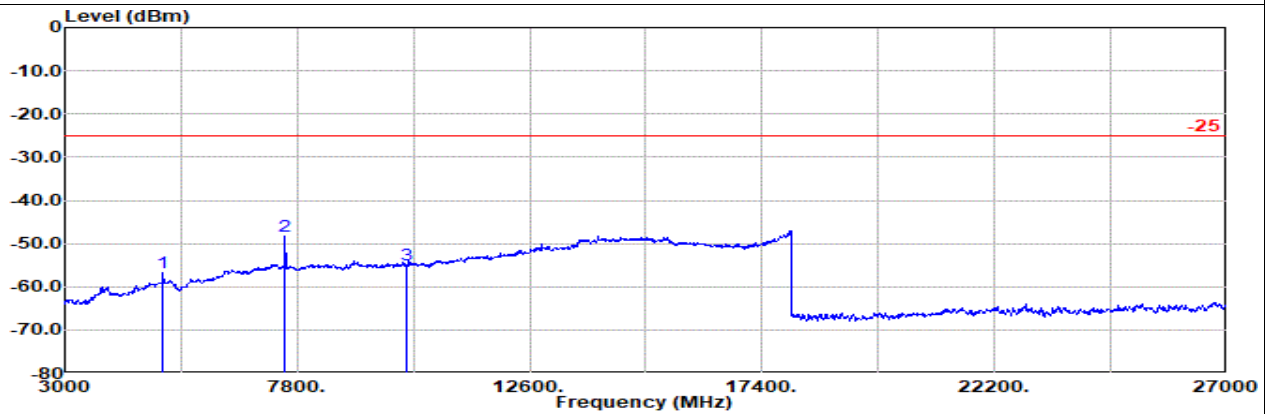
EN-DC B12+n7 10M + 50M Ch23095 1RB0 QPSK + Ch507000 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -25 1m SHF_1224_260812 Horizontal
: LTE B12 10M Ch23095 1RB0 QPSK
: SA n7 50M Ch507000 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	5025.00	-55.84	RMS	32.80	-21.80	1.01	-95.23	27.38	-25.00	-30.84	Horizontal	
2	7538.00	-50.56	RMS	37.15	-21.89	1.11	-95.23	28.30	-25.00	-25.56	Horizontal	
3	10051.00	-55.10	RMS	37.60	-22.23	1.23	-95.23	23.53	-25.00	-30.10	Horizontal	



Site : 03CH22-HY
Condition: -25 1m SHF_1224_260812 Vertical
: LTE B12 10M Ch23095 1RB0 QPSK
: SA n7 50M Ch507000 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	5025.00	-56.84	RMS	32.80	-21.80	1.01	-95.23	26.38	-25.00	-31.84	Vertical	
2	7538.00	-48.26	RMS	37.15	-21.89	1.11	-95.23	30.60	-25.00	-23.26	Vertical	
3	10051.00	-54.89	RMS	37.60	-22.23	1.23	-95.23	23.74	-25.00	-29.89	Vertical	

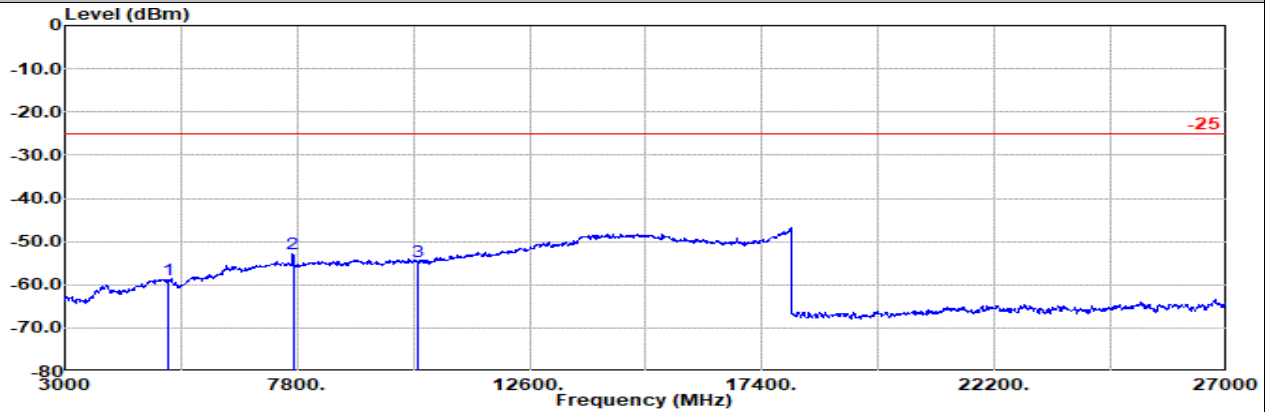


Ant 1+2

Part 27M Mode 73

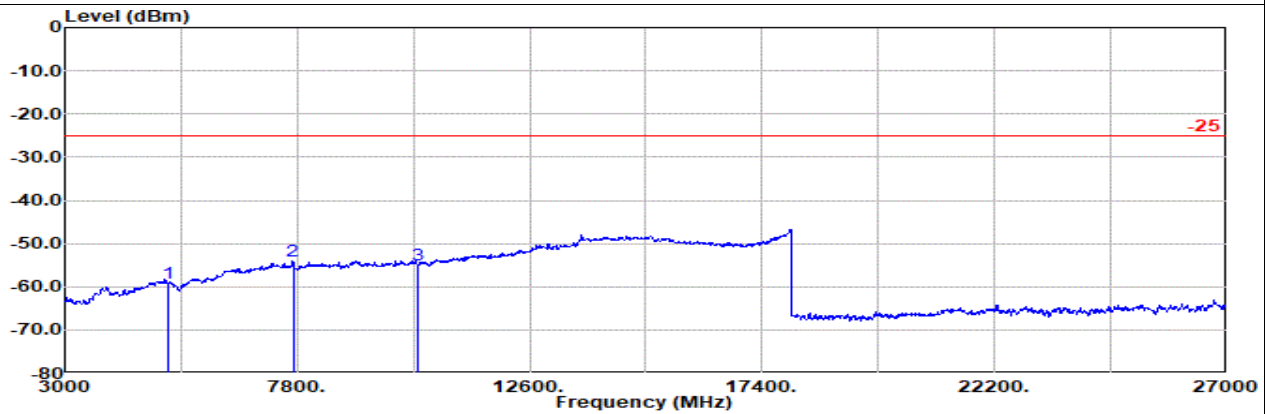
EN-DC B25+n41 20M + 50M Ch26340 1RB0 QPSK + Ch518598 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -25 1m SHF_1224_260812 Horizontal
: LTE B12 10M Ch23095 1RB0 QPSK
: SA n7 50M Ch507000 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	5141.00	-58.74	RMS	32.70	-21.82	1.04	-95.23	24.57	-25.00	-33.74	Horizontal	
2	7711.00	-52.72	RMS	37.06	-22.04	1.08	-95.23	26.41	-25.00	-27.72	Horizontal	
3	10282.00	-54.74	RMS	37.50	-22.39	1.25	-95.23	24.13	-25.00	-29.74	Horizontal	



Site : 03CH22-HY
Condition: -25 1m SHF_1224_260812 Vertical
: LTE B12 10M Ch23095 1RB0 QPSK
: SA n7 50M Ch507000 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	5141.00	-59.27	RMS	32.70	-21.82	1.04	-95.23	24.04	-25.00	-34.27	Vertical	
2	7711.00	-54.12	RMS	37.06	-22.04	1.08	-95.23	25.01	-25.00	-29.12	Vertical	
3	10282.00	-55.01	RMS	37.50	-22.39	1.25	-95.23	23.86	-25.00	-30.01	Vertical	

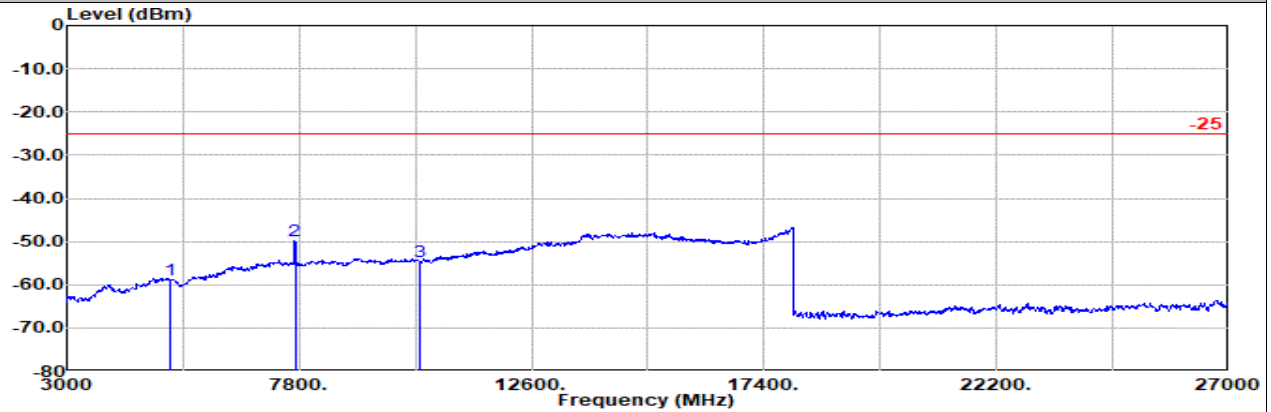


Ant 2+0

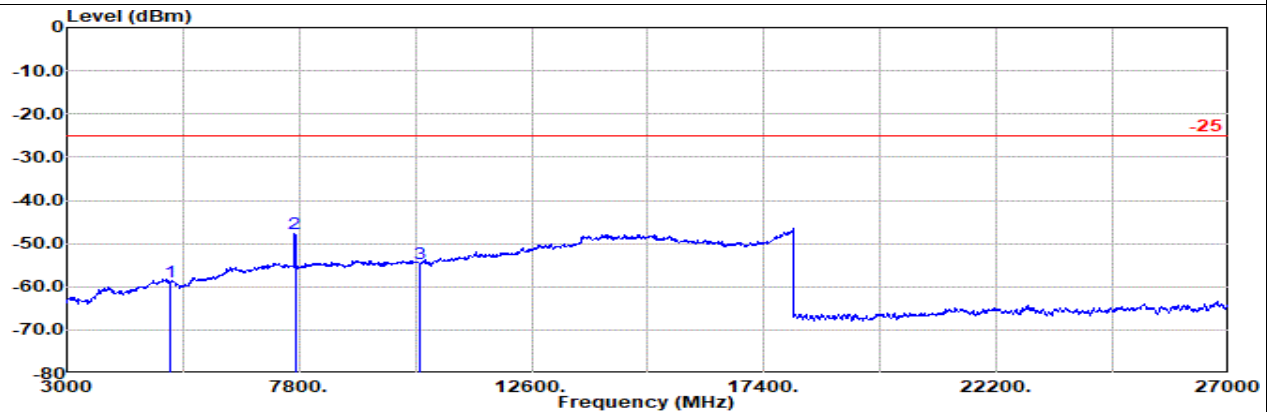
Part 27M Mode 74

EN-DC B25+n41 10M + 50M Ch26340 1RB0 QPSK + Ch518598 1RB1 BPSK

M



	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	5141.00	-58.77	RMS	32.70	-21.82	1.04	-95.23	24.54	-25.00	-33.77	Horizontal	
2	7712.00	-49.86	RMS	37.05	-22.05	1.08	-95.23	29.29	-25.00	-24.86	Horizontal	
3	10283.00	-54.67	RMS	37.50	-22.39	1.25	-95.23	24.20	-25.00	-29.67	Horizontal	



	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	5141.00	-58.83	RMS	32.70	-21.82	1.04	-95.23	24.48	-25.00	-33.83	Vertical	
2	7712.00	-47.68	RMS	37.05	-22.05	1.08	-95.23	31.47	-25.00	-22.68	Vertical	
3	10283.00	-54.68	RMS	37.50	-22.39	1.25	-95.23	24.19	-25.00	-29.68	Vertical	

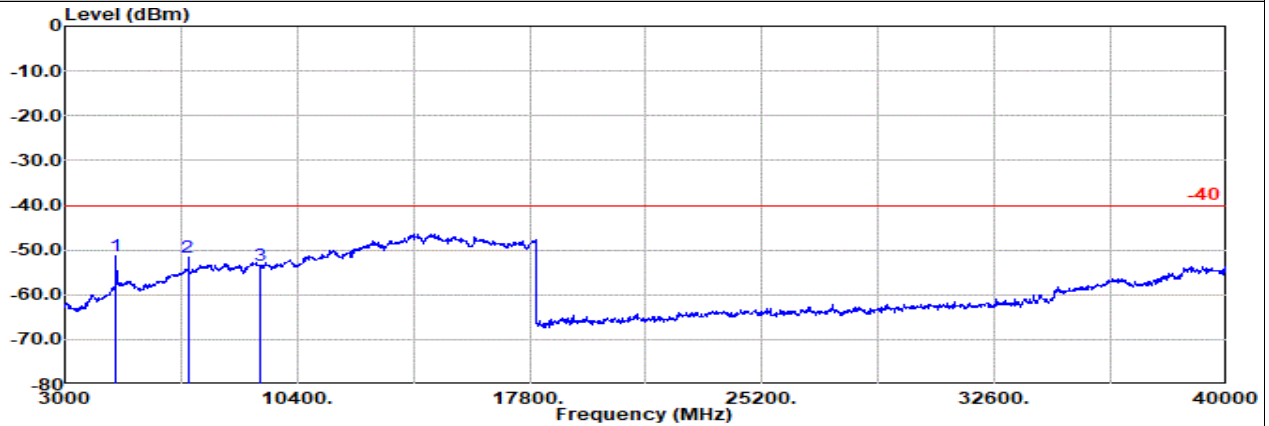


Ant. 6

Part 27D Mode 77

NR SA n30 10M Ch462000 1RB1 BPSK

M

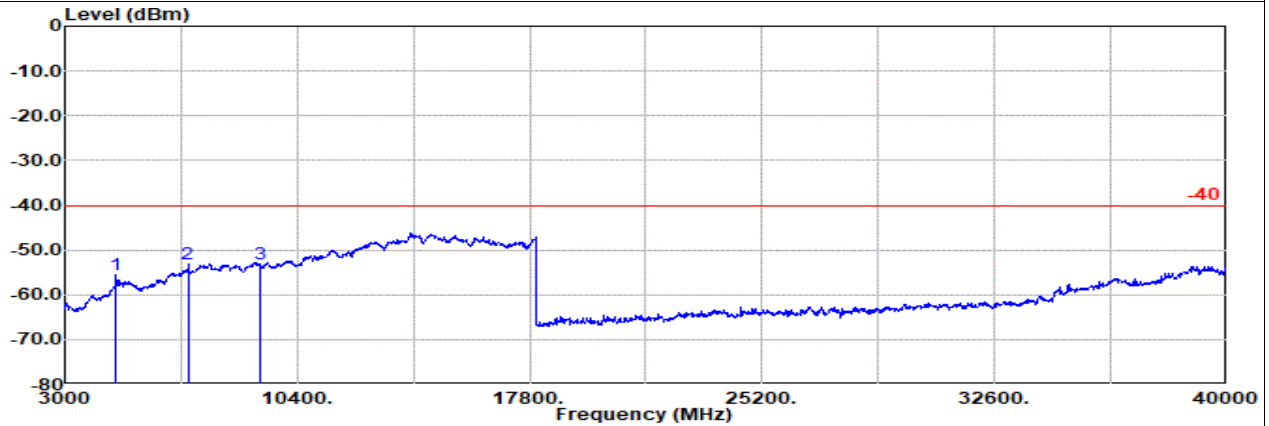


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_260812 Horizontal

: SA n30 10M Ch462000 1RB1 BPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm									
1 4612.00	-51.28	RMS	31.85	-22.38	2.71	-95.23	31.77	-40.00	-11.28	Horizontal
2 6917.00	-51.58	RMS	36.37	-21.58	1.45	-95.23	27.41	-40.00	-11.58	Horizontal
3 9223.00	-53.42	RMS	37.00	-21.80	1.57	-95.23	25.04	-40.00	-13.42	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_260812 Vertical

: SA n30 10M Ch462000 1RB1 BPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm									
1 4612.00	-55.41	RMS	31.85	-22.38	2.71	-95.23	27.64	-40.00	-15.41	Vertical
2 6917.00	-53.14	RMS	36.37	-21.58	1.45	-95.23	25.85	-40.00	-13.14	Vertical
3 9223.00	-53.22	RMS	37.00	-21.80	1.57	-95.23	25.24	-40.00	-13.22	Vertical

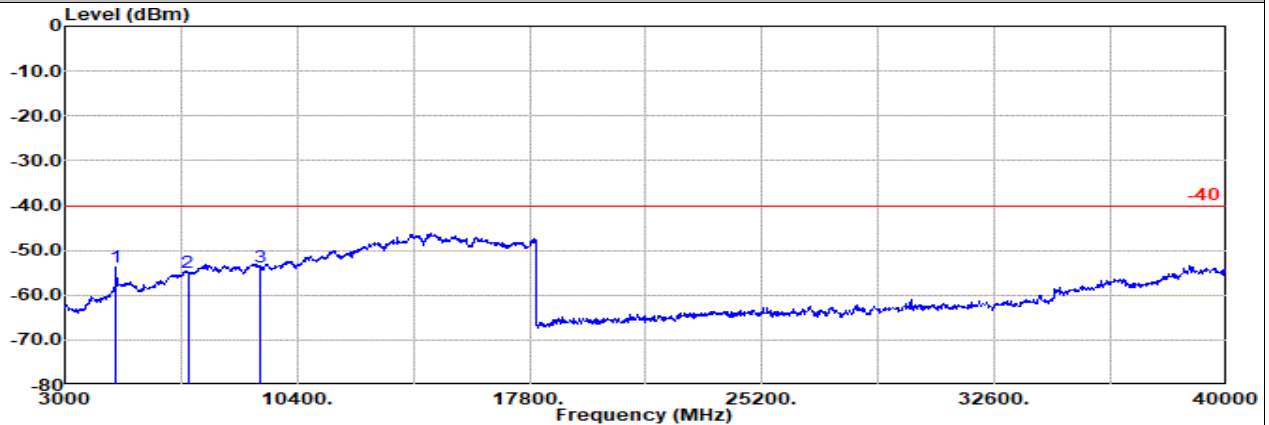


Ant. 1

Part 27D Mode 78

NR SA n30 10M Ch462000 1RB1 BPSK

M

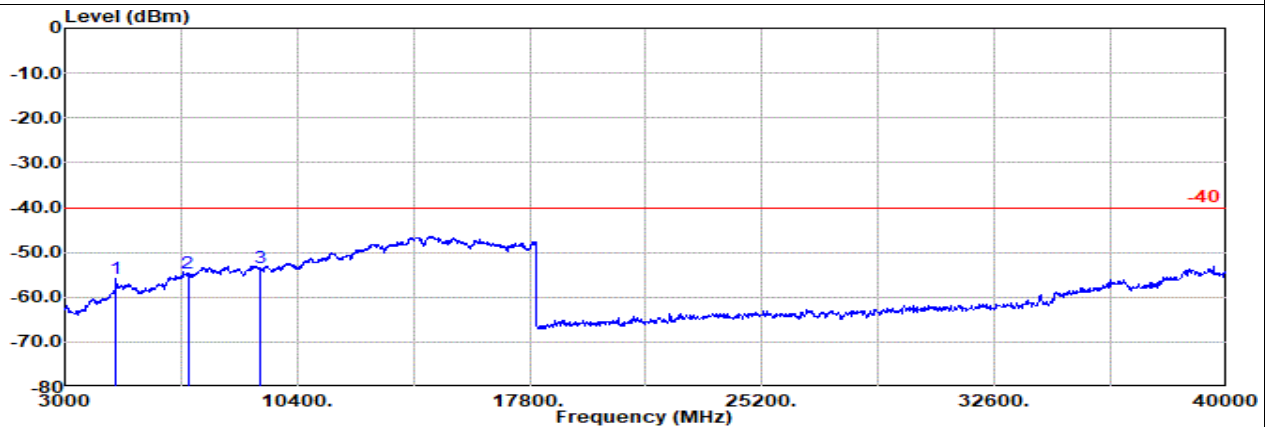


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_260812 Horizontal

: SA n30 10M Ch462000 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin Pol	
	MHz	dBm		Factor	1						
1	4612.00	-53.71	RMS	31.85	-22.38	2.71	-95.23	29.34	-40.00	-13.71	Horizontal
2	6917.00	-54.84	RMS	36.37	-21.58	1.45	-95.23	24.15	-40.00	-14.84	Horizontal
3	9223.00	-53.70	RMS	37.00	-21.80	1.57	-95.23	24.76	-40.00	-13.70	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_260812 Vertical

: SA n30 10M Ch462000 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin Pol	
	MHz	dBm		Factor	1						
1	4612.00	-55.81	RMS	31.85	-22.38	2.71	-95.23	27.24	-40.00	-15.81	Vertical
2	6917.00	-54.59	RMS	36.37	-21.58	1.45	-95.23	24.40	-40.00	-14.59	Vertical
3	9223.00	-53.51	RMS	37.00	-21.80	1.57	-95.23	24.95	-40.00	-13.51	Vertical

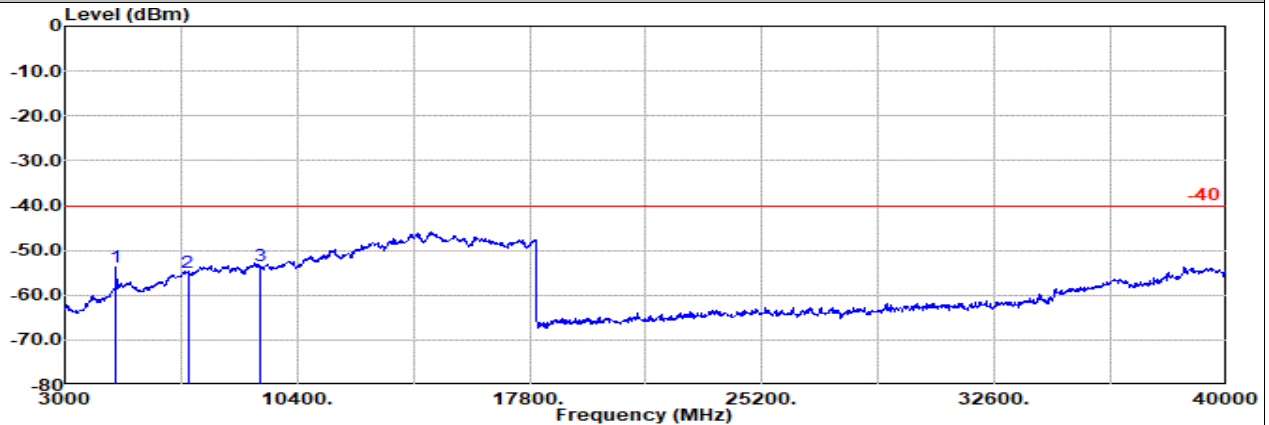


Ant. 6+1

Part 27D Mode 79

NR SA n30 UL MIMO 10M Ch462000 1RB1 QPSK

M

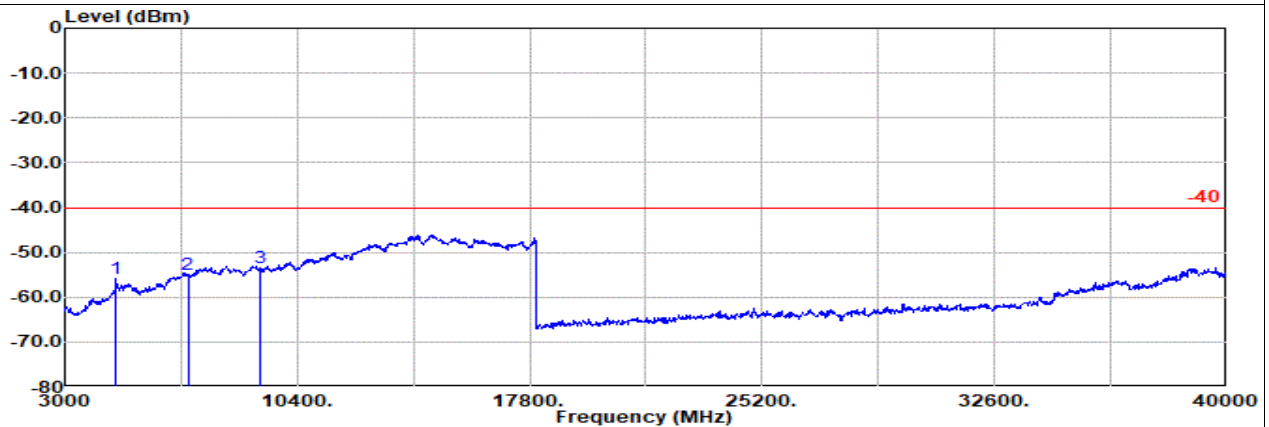


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_260812 Horizontal

: SA n30 10M Ch462000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	4612.00	-53.67	RMS	31.85	-22.38	2.71	-95.23	29.38	-40.00	-13.67 Horizontal
2	6917.00	-54.86	RMS	36.37	-21.58	1.45	-95.23	24.13	-40.00	-14.86 Horizontal
3	9223.00	-53.48	RMS	37.00	-21.80	1.57	-95.23	24.98	-40.00	-13.48 Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_260812 Vertical

: SA n30 10M Ch462000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	4612.00	-55.99	RMS	31.85	-22.38	2.71	-95.23	27.06	-40.00	-15.99 Vertical
2	6917.00	-55.01	RMS	36.37	-21.58	1.45	-95.23	23.98	-40.00	-15.01 Vertical
3	9223.00	-53.55	RMS	37.00	-21.80	1.57	-95.23	24.91	-40.00	-13.55 Vertical

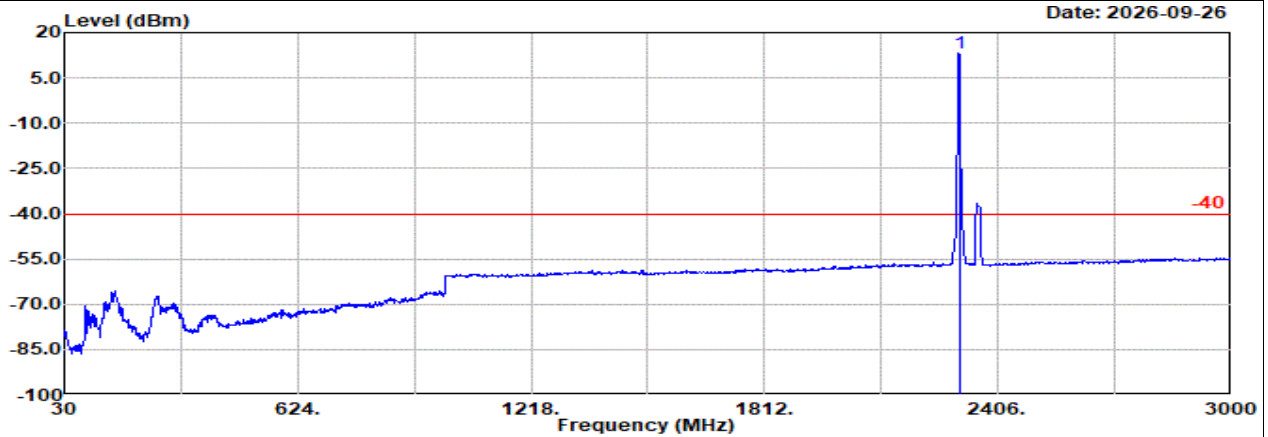


Ant. 6

Part 27D Mode 77

NR SA n30 10M Ch462000 1RB1 BPSK

M



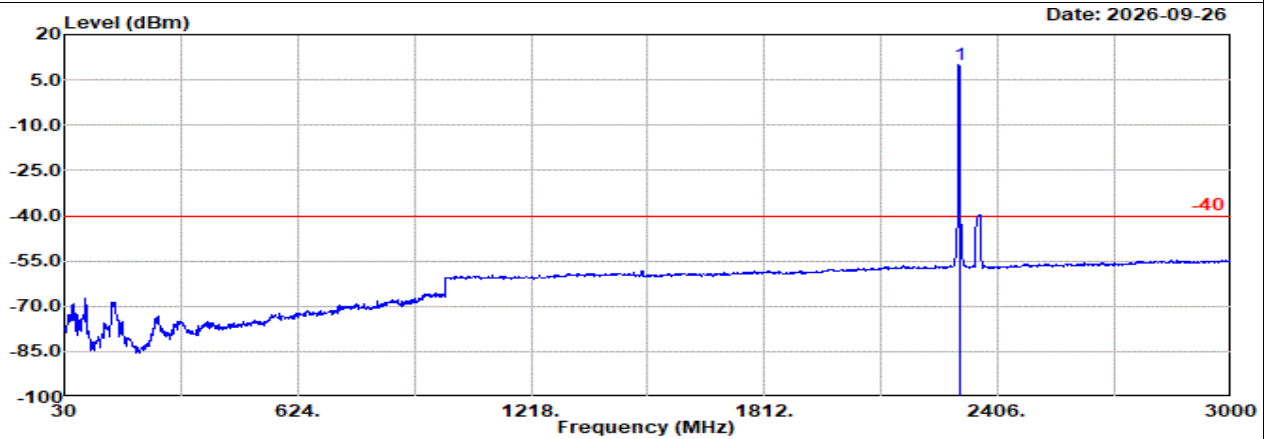
Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_260812 Horizontal

: NR n30 10M Ch462000 1RB1 BPSK

: #1 is fundamental signal which 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	2310.00	13.14	RMS	27.00	-24.43	10.33	-95.23	95.47	-40.00	53.14	Horizontal



Site : 03CH21-HY

Condition: -40 3m DRH18-E_LE2C03A18EN_260812 Vertical

: NR n30 10M Ch462000 1RB1 BPSK

: #1 is fundamental signal which 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	2310.00	10.17	RMS	27.00	-24.43	10.33	-95.23	92.50	-40.00	50.17	Vertical

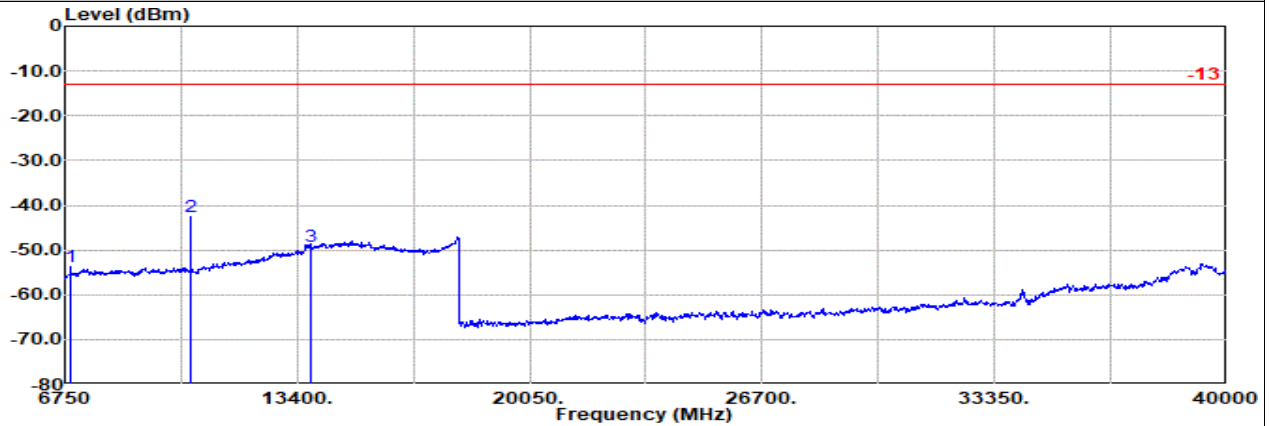


Ant 7

Part 27Q Mode 82

NR SA n77 100M Ch633334 1RB1 BPSK

M

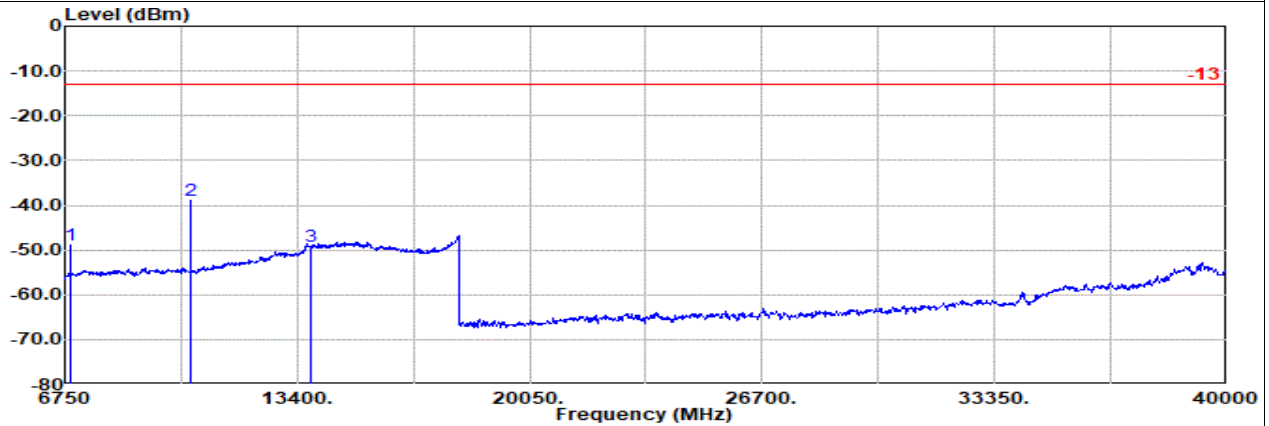


Site : 03CH22-HY

Condition: -13 1m SHF_1224_260812 Horizontal

: SA n77 100M Ch633334 1RB1 BPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm									
1	6902.00	-53.60 RMS	36.80	-22.02	1.47	-95.23	25.38	-13.00	-40.60	Horizontal
2	10353.00	-42.59 RMS	37.50	-22.44	1.28	-95.23	36.30	-13.00	-29.59	Horizontal
3	13805.00	-49.30 RMS	41.88	-22.77	1.45	-95.23	25.37	-13.00	-36.30	Horizontal



Site : 03CH22-HY

Condition: -13 1m SHF_1224_260812 Vertical

: SA n77 100M Ch633334 1RB1 BPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm									
1	6902.00	-49.00 RMS	36.80	-22.02	1.47	-95.23	29.98	-13.00	-36.00	Vertical
2	10353.00	-38.90 RMS	37.50	-22.44	1.28	-95.23	39.99	-13.00	-25.90	Vertical
3	13805.00	-49.17 RMS	41.88	-22.77	1.45	-95.23	25.50	-13.00	-36.17	Vertical

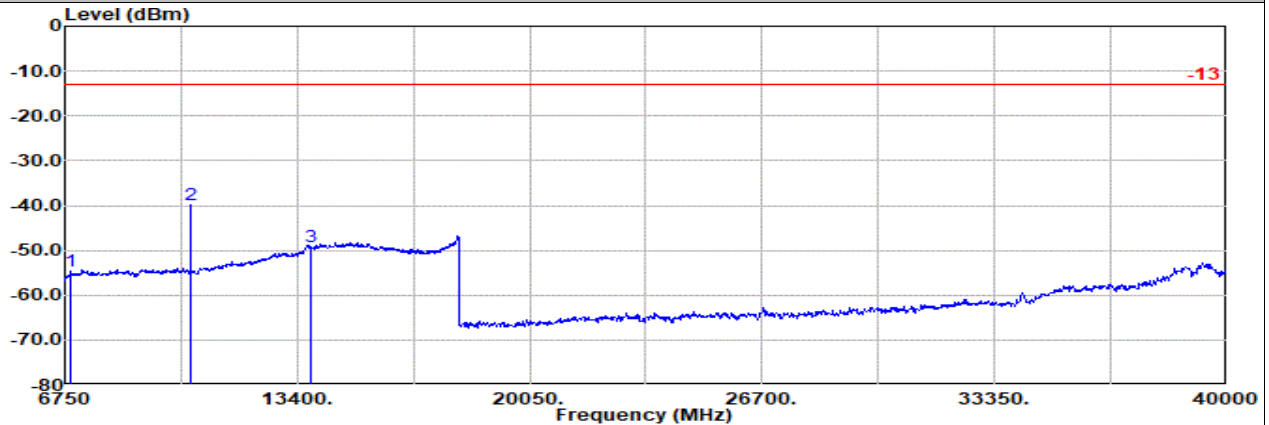


Ant 8

Part 27Q Mode 83

NR SA n77 100M Ch633334 1RB1 BPSK

M

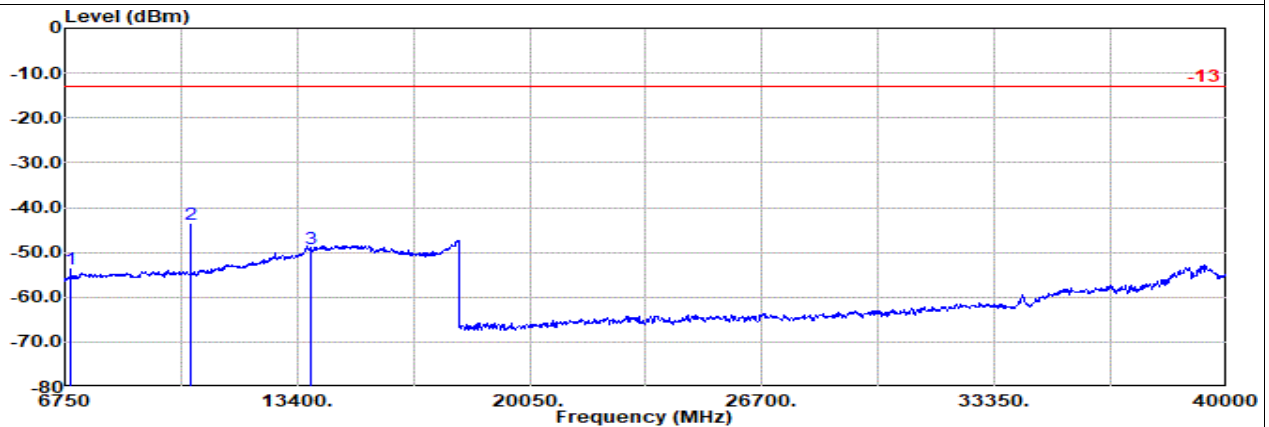


Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: SA n77 100M Ch633334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	6902.00	-54.66	RMS	36.80	-22.02	1.47	-95.23	24.32	-13.00	-41.66	Horizontal			
2	10353.00	-39.76	RMS	37.50	-22.44	1.28	-95.23	39.13	-13.00	-26.76	Horizontal			
3	13805.00	-49.21	RMS	41.88	-22.77	1.45	-95.23	25.46	-13.00	-36.21	Horizontal			



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: SA n77 100M Ch633334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	6902.00	-53.67	RMS	36.80	-22.02	1.47	-95.23	25.31	-13.00	-40.67	Vertical			
2	10353.00	-43.78	RMS	37.50	-22.44	1.28	-95.23	35.11	-13.00	-30.78	Vertical			
3	13805.00	-49.12	RMS	41.88	-22.77	1.45	-95.23	25.55	-13.00	-36.12	Vertical			

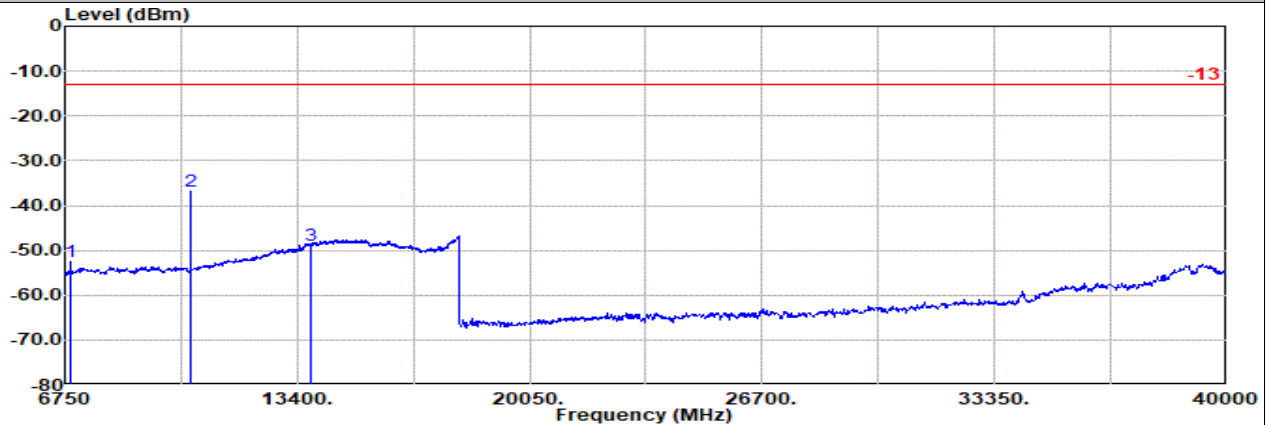


Ant 4+5

Part 27Q Mode 84

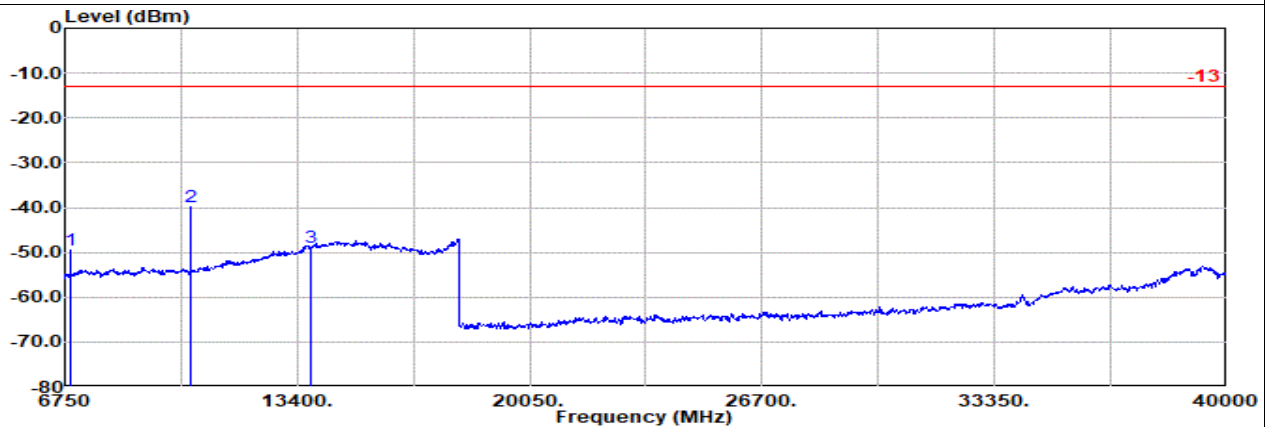
NR SA n77 UL MIMO 100M Ch633334 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: SA n77 100M Ch633334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB		
1	6902.00	-52.59	RMS	36.80	-22.02	1.47	-95.23	26.39	-13.00	-39.59	Horizontal			
2	10353.00	-36.85	RMS	37.50	-22.44	1.28	-95.23	42.04	-13.00	-23.85	Horizontal			
3	13805.00	-48.76	RMS	41.88	-22.77	1.45	-95.23	25.91	-13.00	-35.76	Horizontal			



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: SA n77 100M Ch633334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB		
1	6902.00	-49.53	RMS	36.80	-22.02	1.47	-95.23	29.45	-13.00	-36.53	Vertical			
2	10353.00	-39.98	RMS	37.50	-22.44	1.28	-95.23	38.91	-13.00	-26.98	Vertical			
3	13805.00	-48.80	RMS	41.88	-22.77	1.45	-95.23	25.87	-13.00	-35.80	Vertical			

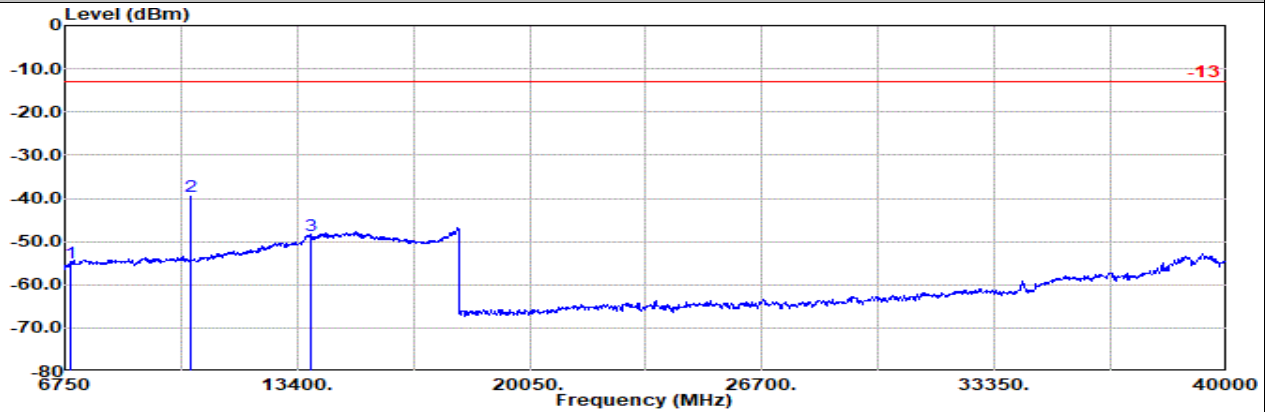


Ant 2+7

Part 27Q Mode 85

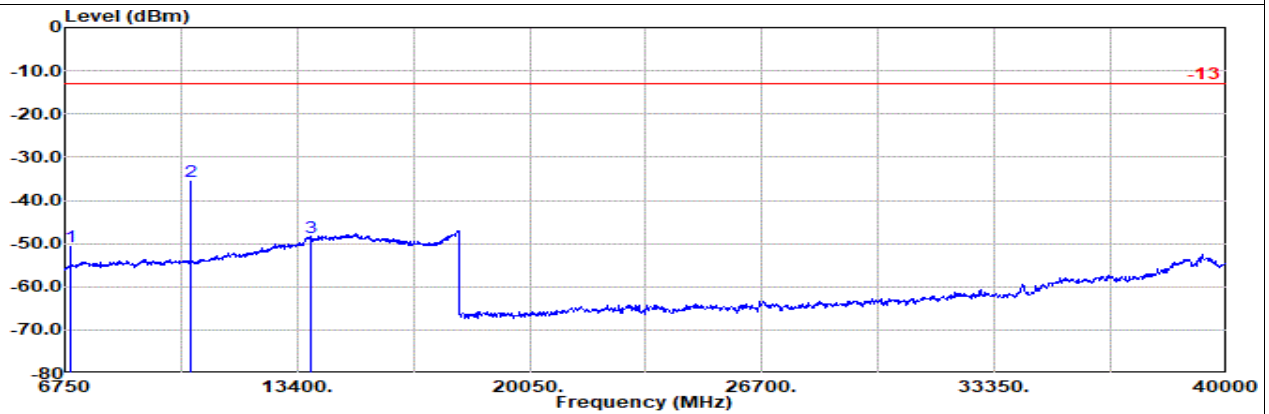
EN-DC B30+n77 10M + 100M Ch27710 1RB0 QPSK + Ch633334 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch633334 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	6902.00	-54.91	RMS	36.80	-22.02	1.47	-95.23	24.07	-13.00	-41.91 Horizontal
2	10353.00	-39.59	RMS	37.50	-22.44	1.28	-95.23	39.30	-13.00	-26.59 Horizontal
3	13805.00	-48.67	RMS	41.88	-22.77	1.45	-95.23	26.00	-13.00	-35.67 Horizontal



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch633334 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	6902.00	-50.79	RMS	36.80	-22.02	1.47	-95.23	28.19	-13.00	-37.79 Vertical
2	10353.00	-35.66	RMS	37.50	-22.44	1.28	-95.23	43.23	-13.00	-22.66 Vertical
3	13805.00	-48.52	RMS	41.88	-22.77	1.45	-95.23	26.15	-13.00	-35.52 Vertical

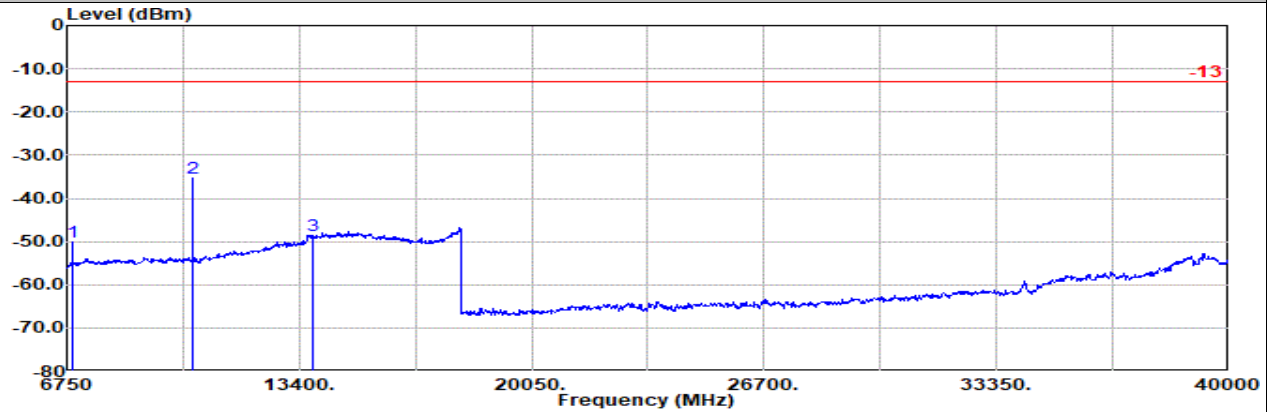


Ant 1+5

Part 27Q Mode 86

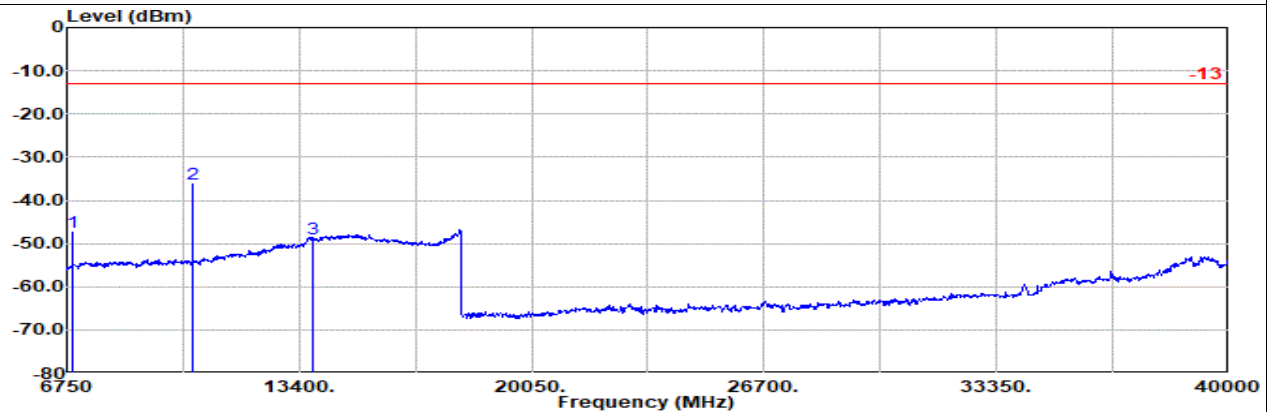
EN-DC B30+n77 10M + 100M Ch27710 1RB0 QPSK + Ch633334 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch633334 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	6902.00	-50.12	RMS		36.80	-22.02	1.47	-95.23	0.00	-13.00	-37.12	Horizontal
2	10353.00	-35.47	RMS		37.50	-22.44	1.28	-95.23	43.42	-13.00	-22.47	Horizontal
3	13805.00	-48.67	RMS		41.88	-22.77	1.45	-95.23	26.00	-13.00	-35.67	Horizontal



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch633334 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	6902.00	-47.37	RMS		36.80	-22.02	1.47	-95.23	31.61	-13.00	-34.37	Vertical
2	10353.00	-36.25	RMS		37.50	-22.44	1.28	-95.23	42.64	-13.00	-23.25	Vertical
3	13805.00	-49.01	RMS		41.88	-22.77	1.45	-95.23	25.66	-13.00	-36.01	Vertical

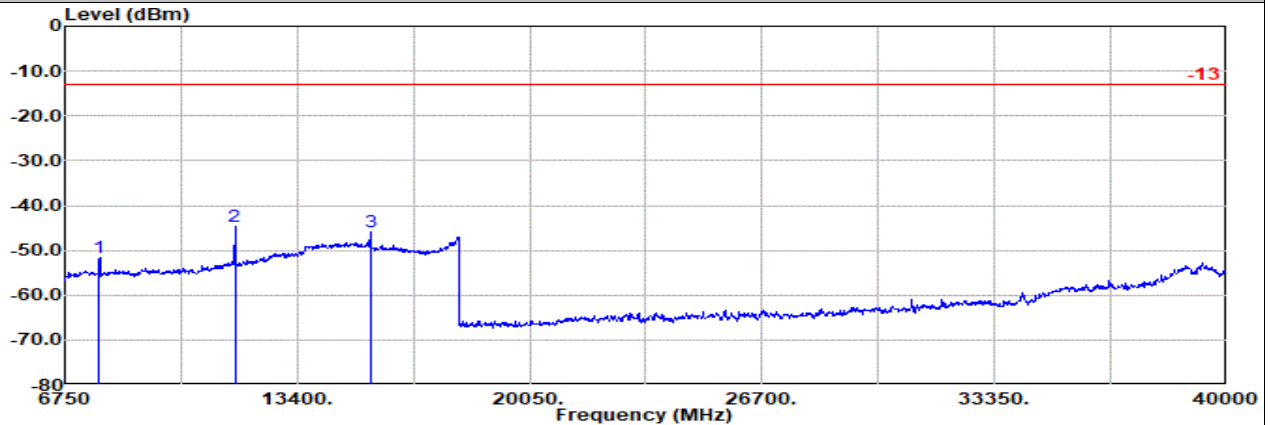


Ant 7

Part 270 Mode 87

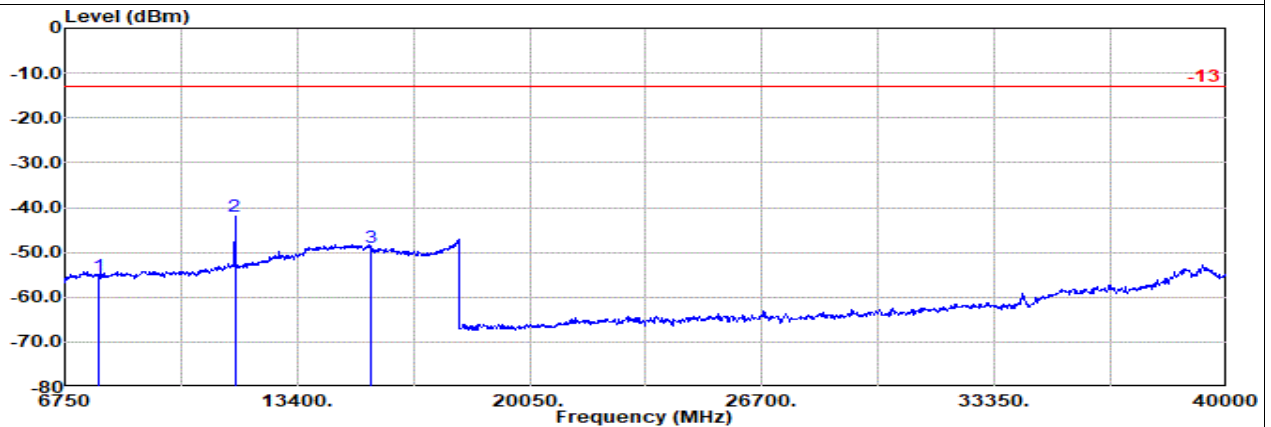
NR SA n77 100M Ch661334 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: SA n77 100M Ch661334 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	7742.00	-51.77	RMS	36.93	-22.08	1.25	-95.23	27.36	-13.00	-38.77	Horizontal			
2	11613.00	-44.63	RMS	38.97	-22.44	1.38	-95.23	32.69	-13.00	-31.63	Horizontal			
3	15485.00	-45.77	RMS	41.99	-23.82	1.87	-95.23	29.42	-13.00	-32.77	Horizontal			



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: SA n77 100M Ch661334 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	7742.00	-55.25	RMS	36.93	-22.08	1.25	-95.23	23.88	-13.00	-42.25	Vertical			
2	11613.00	-41.87	RMS	38.97	-22.44	1.38	-95.23	35.45	-13.00	-28.87	Vertical			
3	15485.00	-49.01	RMS	41.99	-23.82	1.87	-95.23	26.18	-13.00	-36.01	Vertical			

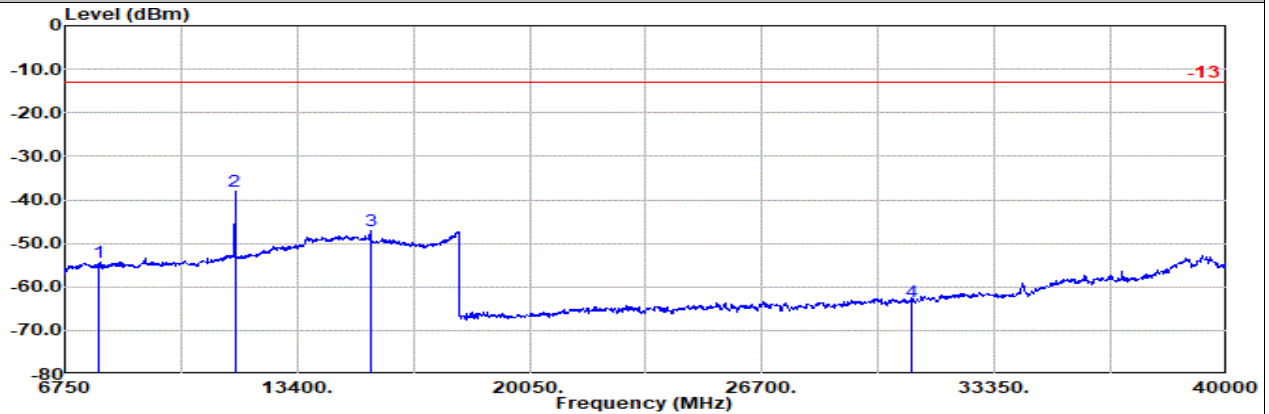


Ant 5

Part 270 Mode 88

NR SA n77 100M Ch661334 1RB1 BPSK

M

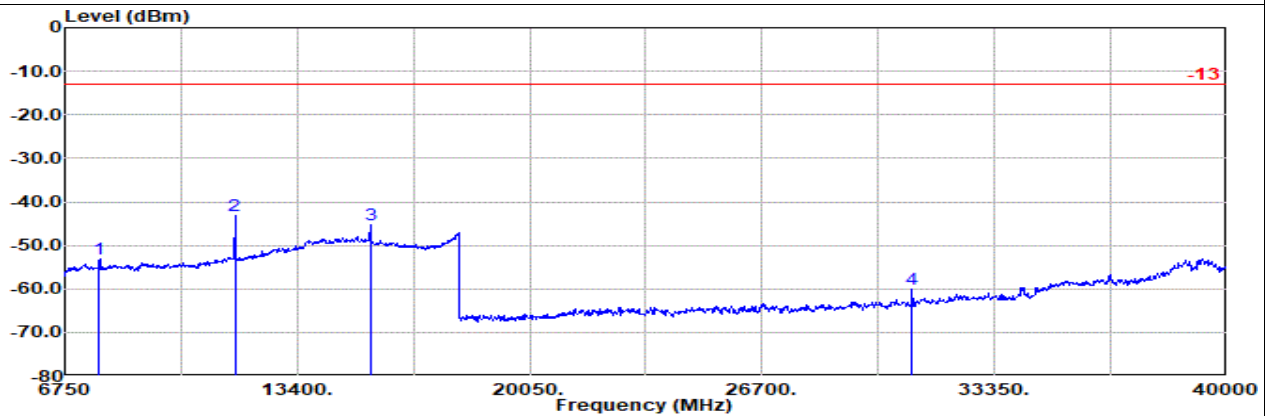


Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Horizontal

: SA n77 100M Ch661334 1RB1 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7742.00	-54.24	RMS	36.93	-22.08	1.25	-95.23	24.89	-13.00	-41.24	Horizontal
2	11613.00	-38.14	RMS	38.97	-22.44	1.38	-95.23	39.18	-13.00	-25.14	Horizontal
3	15485.00	-47.06	RMS	41.99	-23.82	1.87	-95.23	28.13	-13.00	-34.06	Horizontal
4	30968.00	-63.38	RMS	40.94	-34.00	-9.54	-95.23	34.45	-13.00	-50.38	Horizontal



Site : 03CH22-HY

Condition: -13 3m DRH18-E_LE2C04A18EN_260520 Vertical

: SA n77 100M Ch661334 1RB1 BPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7742.00	-53.00	RMS	36.93	-22.08	1.25	-95.23	26.13	-13.00	-40.00	Vertical
2	11613.00	-43.05	RMS	38.97	-22.44	1.38	-95.23	34.27	-13.00	-30.05	Vertical
3	15485.00	-45.18	RMS	41.99	-23.82	1.87	-95.23	30.01	-13.00	-32.18	Vertical
4	30968.00	-60.05	RMS	40.94	-34.00	-9.54	-95.23	37.78	-13.00	-47.05	Vertical

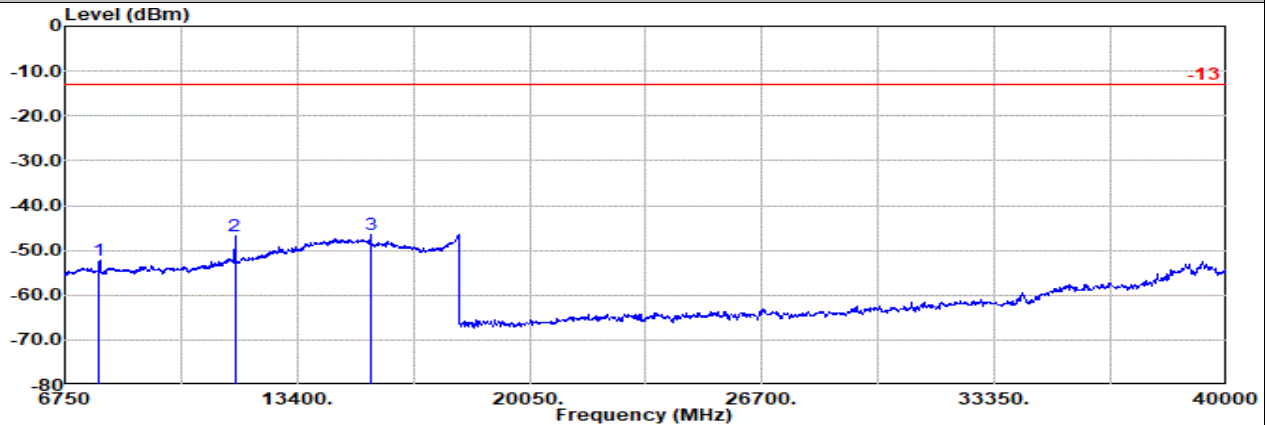


Ant 4+5

Part 270 Mode 89

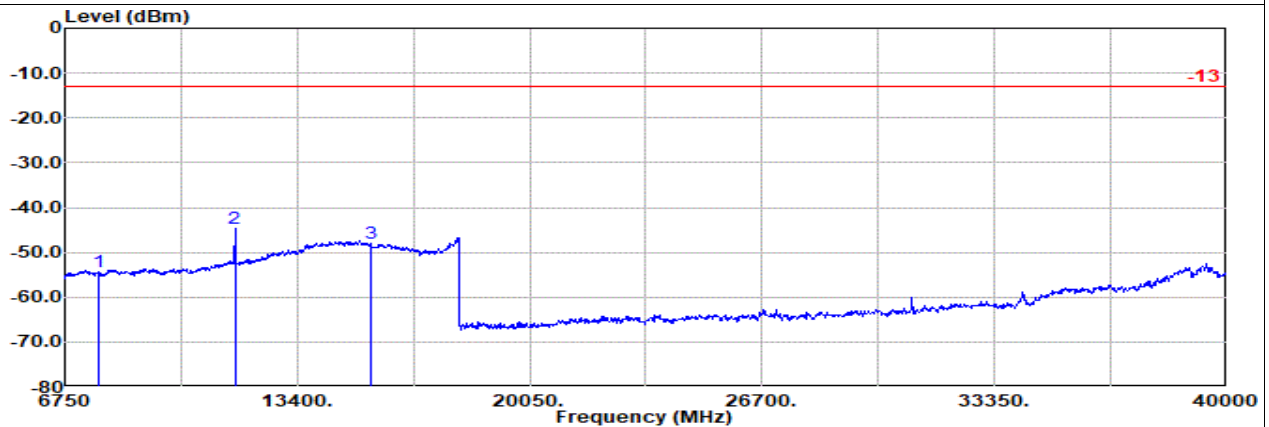
NR SA n77 UL MIMO 100M Ch661334 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: SA n77 100M Ch661334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb		Filter	EIRPCF		Reading	Limit		Margin	Pol
	MHz	dBm		Factor	dB/m	dB	dB	dB	dBuV	dBm	dB		
1	7742.00	-52.31	RMS	36.93	-22.08	1.25	-95.23	26.82	-13.00	-39.31	Horizontal		
2	11613.00	-46.90	RMS	38.97	-22.44	1.38	-95.23	30.42	-13.00	-33.90	Horizontal		
3	15485.00	-46.34	RMS	41.99	-23.82	1.87	-95.23	28.85	-13.00	-33.34	Horizontal		



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: SA n77 100M Ch661334 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb		Filter	EIRPCF		Reading	Limit		Margin	Pol
	MHz	dBm		Factor	dB/m	dB	dB	dB	dBuV	dBm	dB		
1	7742.00	-54.21	RMS	36.93	-22.08	1.25	-95.23	24.92	-13.00	-41.21	Vertical		
2	11613.00	-44.62	RMS	38.97	-22.44	1.38	-95.23	32.70	-13.00	-31.62	Vertical		
3	15485.00	-47.86	RMS	41.99	-23.82	1.87	-95.23	27.33	-13.00	-34.86	Vertical		

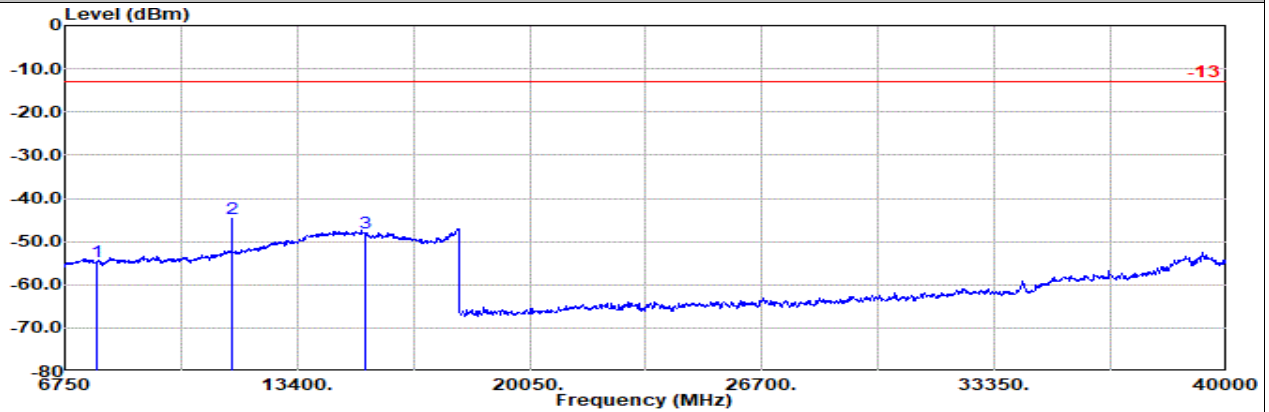


Ant 7

Part 270 Mode 90

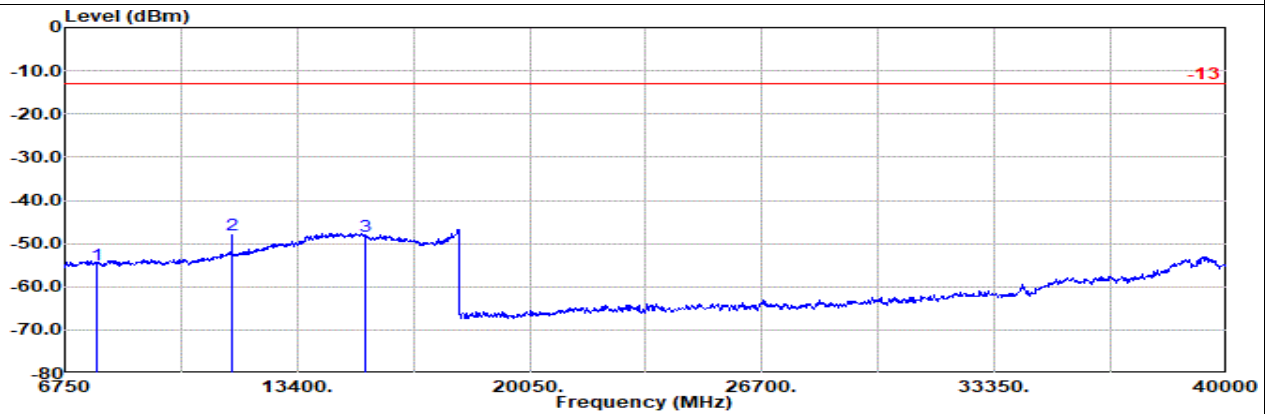
CA n77C 100M + 100M Ch652668 1RB272 BPSK + Ch659332 1RB0 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: SA n77 100M Ch652668 1RB272 BPSK
: SA n77 100M Ch659332 1RB0 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	7682.00	-54.70	RMS		37.06	-22.01	1.25	-95.23	24.23	-13.00	-41.70	Horizontal
2	11523.00	-44.69	RMS		38.99	-22.42	1.37	-95.23	32.60	-13.00	-31.69	Horizontal
3	15364.00	-48.03	RMS		42.16	-23.78	1.84	-95.23	26.98	-13.00	-35.03	Horizontal



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: SA n77 100M Ch652668 1RB272 BPSK
: SA n77 100M Ch659332 1RB0 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	7682.00	-55.01	RMS		37.06	-22.01	1.25	-95.23	23.92	-13.00	-42.01	Vertical
2	11523.00	-48.13	RMS		38.99	-22.42	1.37	-95.23	29.16	-13.00	-35.13	Vertical
3	15364.00	-48.26	RMS		42.16	-23.78	1.84	-95.23	26.75	-13.00	-35.26	Vertical

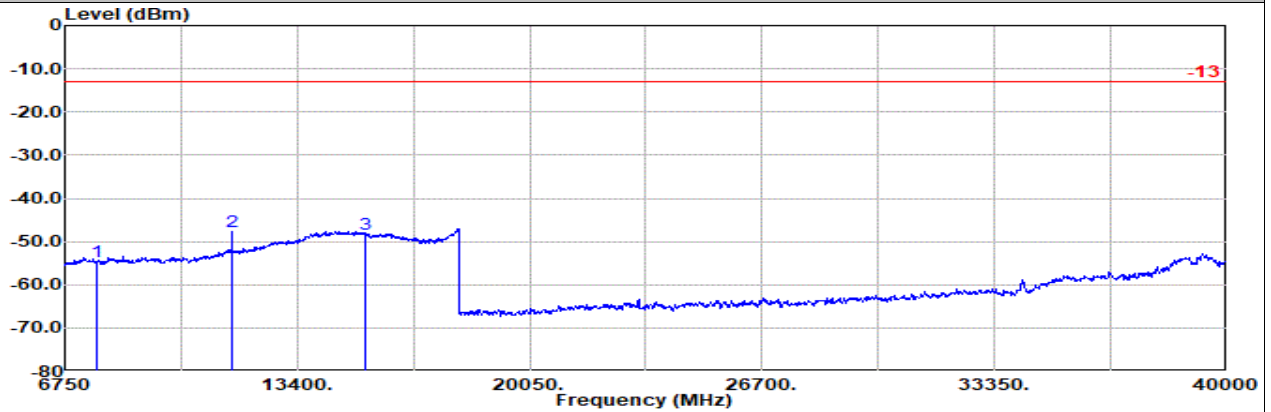


Ant 5

Part 270 Mode 91

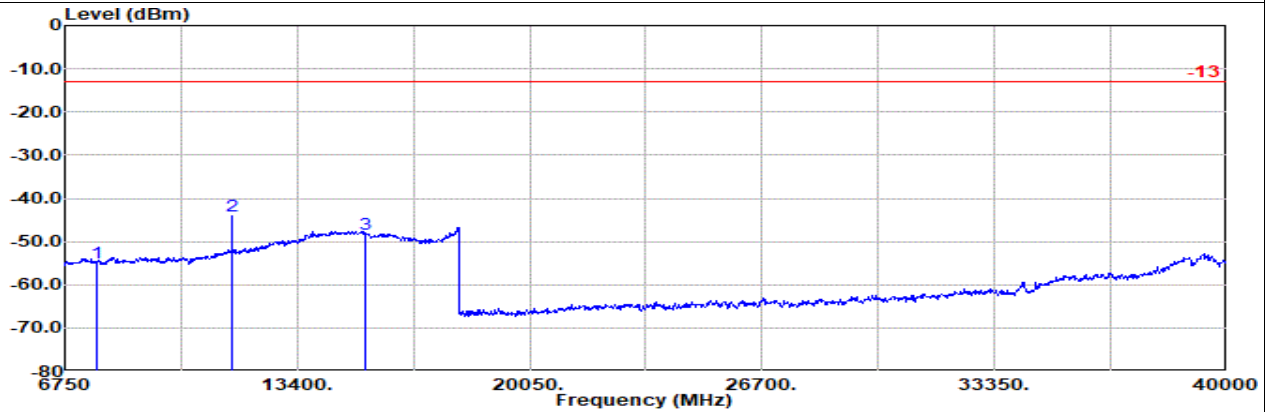
CA n77C 100M + 100M Ch652668 1RB272 BPSK + Ch659332 1RB0 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: SA n77 100M Ch652668 1RB272 BPSK
: SA n77 100M Ch659332 1RB0 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	7682.00	-54.58	RMS	37.06	-22.01	1.25	-95.23	24.35	-13.00	-41.58	Horizontal	
2	11523.00	-47.66	RMS	38.99	-22.42	1.37	-95.23	29.63	-13.00	-34.66	Horizontal	
3	15364.00	-48.28	RMS	42.16	-23.78	1.84	-95.23	26.73	-13.00	-35.28	Horizontal	



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: SA n77 100M Ch652668 1RB272 BPSK
: SA n77 100M Ch659332 1RB0 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB		dBuV	dBm	dB	
1	7682.00	-54.83	RMS	37.06	-22.01	1.25	-95.23	24.10	-13.00	-41.83	Vertical	
2	11523.00	-44.15	RMS	38.99	-22.42	1.37	-95.23	33.14	-13.00	-31.15	Vertical	
3	15364.00	-48.36	RMS	42.16	-23.78	1.84	-95.23	26.65	-13.00	-35.36	Vertical	

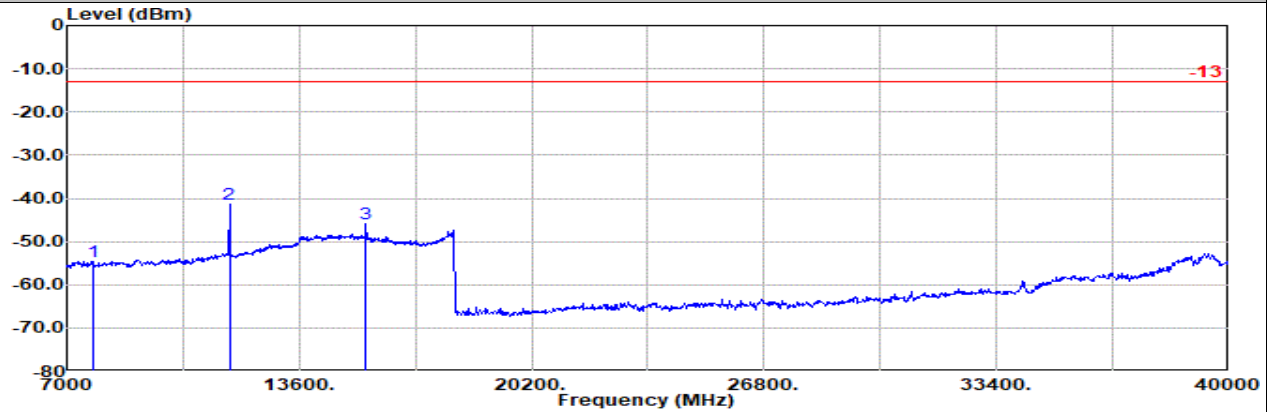


Ant 2+4

Part 270 Mode 92

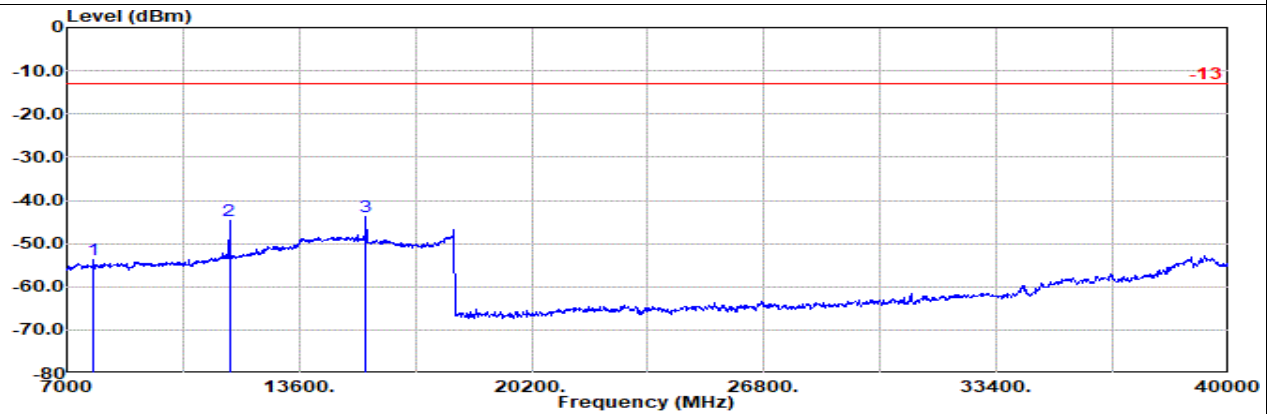
EN-DC B30+n77 10M + 100M Ch27710 1RB0 QPSK + Ch661334 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch661334 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7742.00	-54.54	RMS	36.93	-22.08	1.25	-95.23	24.59	-13.00	-41.54 Horizontal
2	11613.00	-41.38	RMS	38.97	-22.44	1.38	-95.23	35.94	-13.00	-28.38 Horizontal
3	15485.00	-46.00	RMS	41.99	-23.82	1.87	-95.23	29.19	-13.00	-33.00 Horizontal



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch661334 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7742.00	-53.61	RMS	36.93	-22.08	1.25	-95.23	25.52	-13.00	-40.61 Vertical
2	11613.00	-44.76	RMS	38.97	-22.44	1.38	-95.23	32.56	-13.00	-31.76 Vertical
3	15485.00	-43.87	RMS	41.99	-23.82	1.87	-95.23	31.32	-13.00	-30.87 Vertical

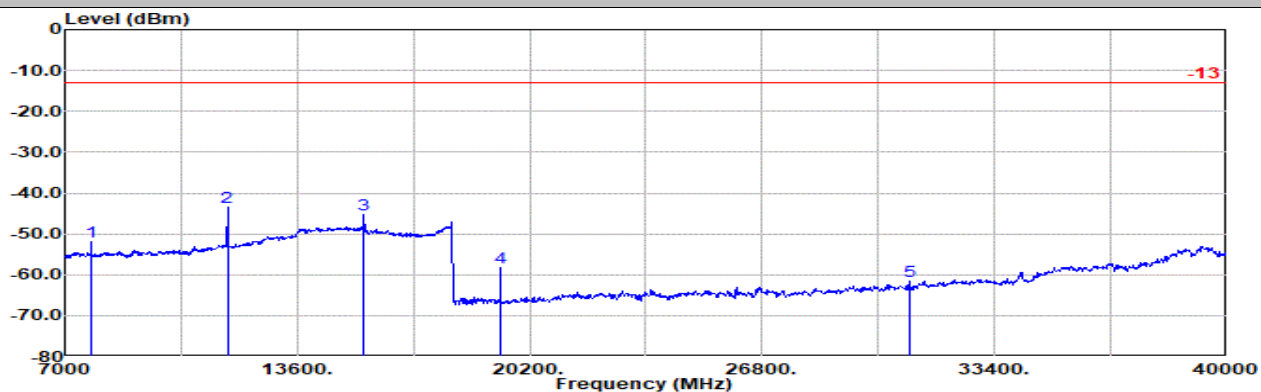


Ant 1+5

Part 270 Mode 93

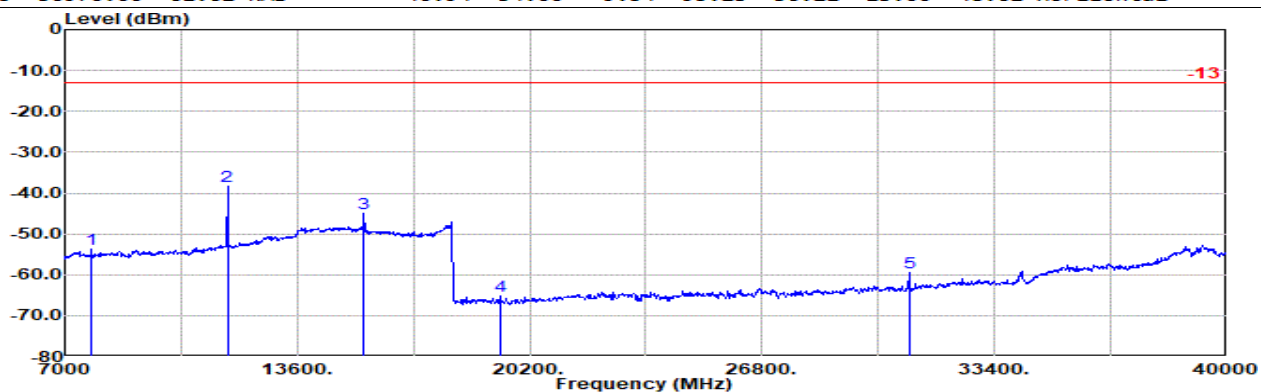
EN-DC B30+n77 10M + 100M Ch27710 1RB0 QPSK + Ch661334 1RB1 BPSK

M



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Horizontal
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch661334 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB		
1	7742.00	-51.78	RMS	36.93	-22.08	1.25	-95.23	27.35	-13.00	-38.78	Horizontal		
2	11613.00	-43.38	RMS	38.97	-22.44	1.38	-95.23	33.94	-13.00	-30.38	Horizontal		
3	15485.00	-45.19	RMS	41.99	-23.82	1.87	-95.23	30.00	-13.00	-32.19	Horizontal		
4	19356.00	-58.12	RMS	37.80	-43.25	-9.54	-95.23	52.10	-13.00	-45.12	Horizontal		
5	30970.00	-61.62	RMS	40.94	-34.00	-9.54	-95.23	36.21	-13.00	-48.62	Horizontal		



Site : 03CH22-HY
Condition: -13 1m SHF_1224_260812 Vertical
: LTE B30 10M Ch27710 1RB0 QPSK
: SA n77 100M Ch661334 1RB1 BPSK

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB		
1	7742.00	-53.69	RMS	36.93	-22.08	1.25	-95.23	25.44	-13.00	-40.69	Vertical		
2	11613.00	-38.48	RMS	38.97	-22.44	1.38	-95.23	38.84	-13.00	-25.48	Vertical		
3	15485.00	-44.92	RMS	41.99	-23.82	1.87	-95.23	30.27	-13.00	-31.92	Vertical		
4	19356.00	-65.28	RMS	37.80	-43.25	-9.54	-95.23	44.94	-13.00	-52.28	Vertical		
5	30970.00	-59.39	RMS	40.94	-34.00	-9.54	-95.23	38.44	-13.00	-46.39	Vertical		

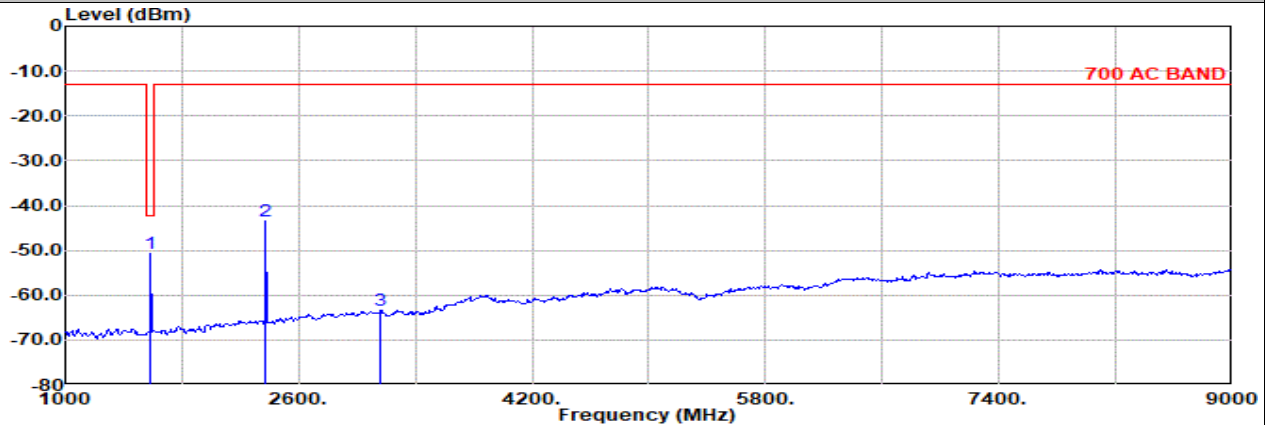


Ant 1

Part 90R Mode 36

NR SA n14 5M Ch158600 1RB1 BPSK

M

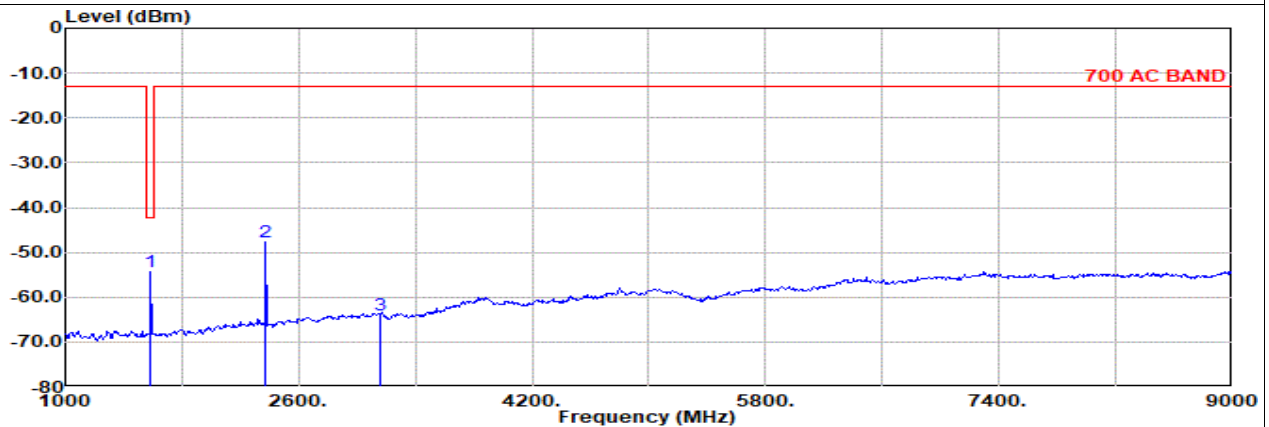


Site : 03CH22-HY

Condition: 700 AC BAND 3m DRH18-E_LE2C04A18EN_260520 Horizontal

NR SA n14 5M Ch158600 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		Factor	1		g			
1	1581.00	-50.75	RMS	24.61	-25.32	1.05	-95.23	44.14	-42.15	-8.60 Horizontal
2	2372.00	-43.60	RMS	26.90	-24.49	0.85	-95.23	48.37	-13.00	-30.60 Horizontal
3	3163.00	-63.46	RMS	28.45	-23.49	0.86	-95.23	25.95	-13.00	-50.46 Horizontal



Site : 03CH22-HY

Condition: 700 AC BAND 3m DRH18-E_LE2C04A18EN_260520 Vertical

NR SA n14 5M Ch158600 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		Factor	1		g			
1	1581.00	-54.24	RMS	24.61	-25.32	1.05	-95.23	40.65	-42.15	-12.09 Vertical
2	2372.00	-47.77	RMS	26.90	-24.49	0.85	-95.23	44.20	-13.00	-34.77 Vertical
3	3163.00	-63.95	RMS	28.45	-23.49	0.86	-95.23	25.46	-13.00	-50.95 Vertical

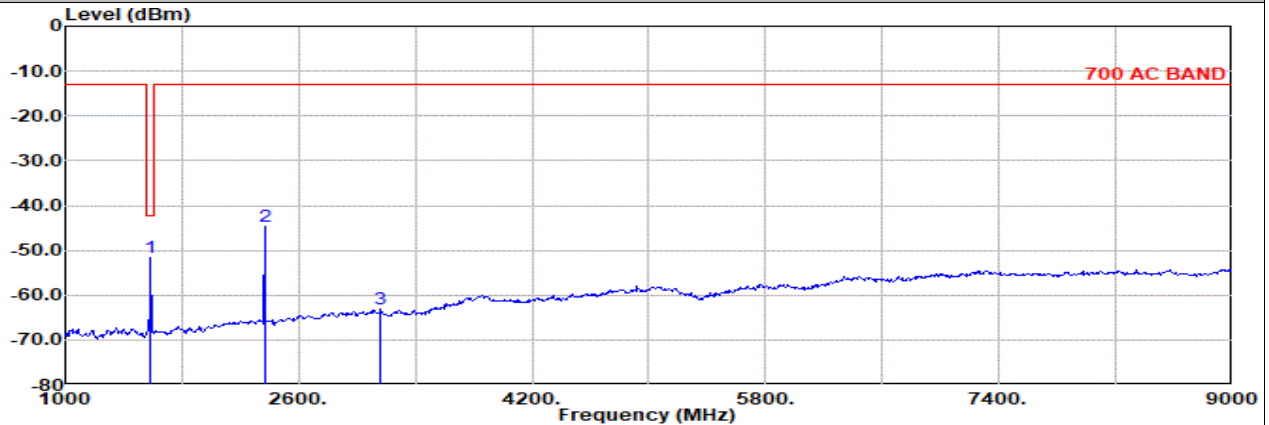


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Part 90R Mode 37

NR SA n14 10M Ch158600 1RB1 BPSK

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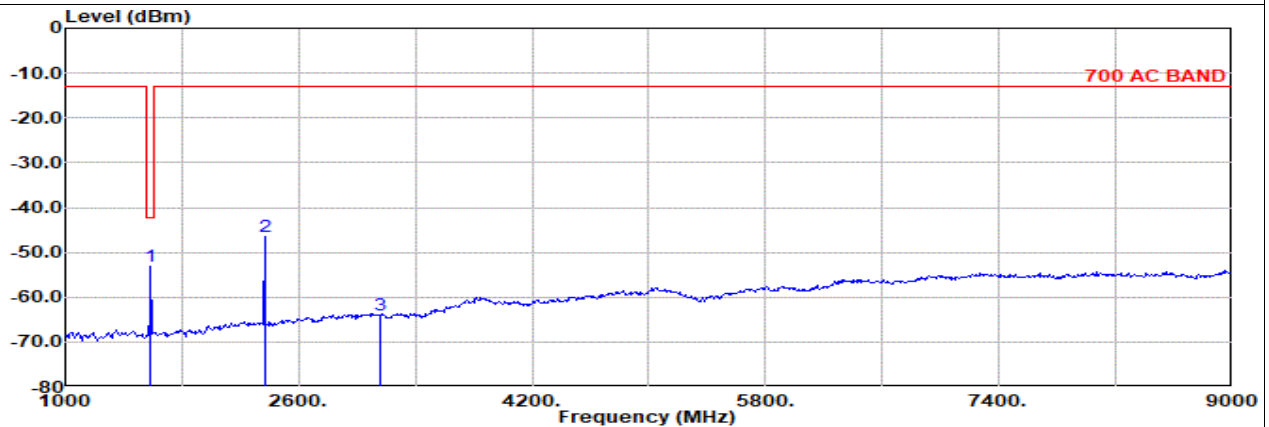


Site : 03CH22-HY

Condition: 700 AC BAND 3m DRH18-E_LE2C04A18EN_260520 Horizontal

NR SA n14 10M Ch158600 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		Factor	1		g			
1	1581.00	-51.64	RMS	24.61	-25.32	1.05	-95.23	43.25	-42.15	-9.49 Horizontal
2	2372.00	-44.80	RMS	26.90	-24.49	0.85	-95.23	47.17	-13.00	-31.80 Horizontal
3	3163.00	-63.05	RMS	28.45	-23.49	0.86	-95.23	26.36	-13.00	-50.05 Horizontal



Site : 03CH22-HY

Condition: 700 AC BAND 3m DRH18-E_LE2C04A18EN_260520 Vertical

NR SA n14 10M Ch158600 1RB1 BPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		Factor	1		g			
1	1581.00	-53.22	RMS	24.61	-25.32	1.05	-95.23	41.67	-42.15	-11.07 Vertical
2	2372.00	-46.60	RMS	26.90	-24.49	0.85	-95.23	45.37	-13.00	-33.60 Vertical
3	3163.00	-63.91	RMS	28.45	-23.49	0.86	-95.23	25.50	-13.00	-50.91 Vertical

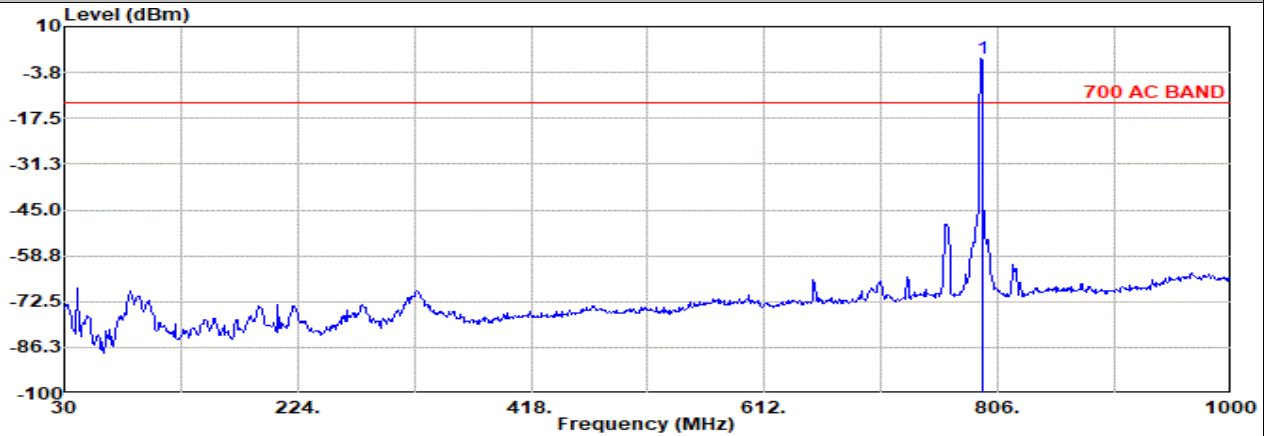


Ant 1

Part 90R Mode 36

NR SA n14 5M Ch158600 1RB1 BPSK

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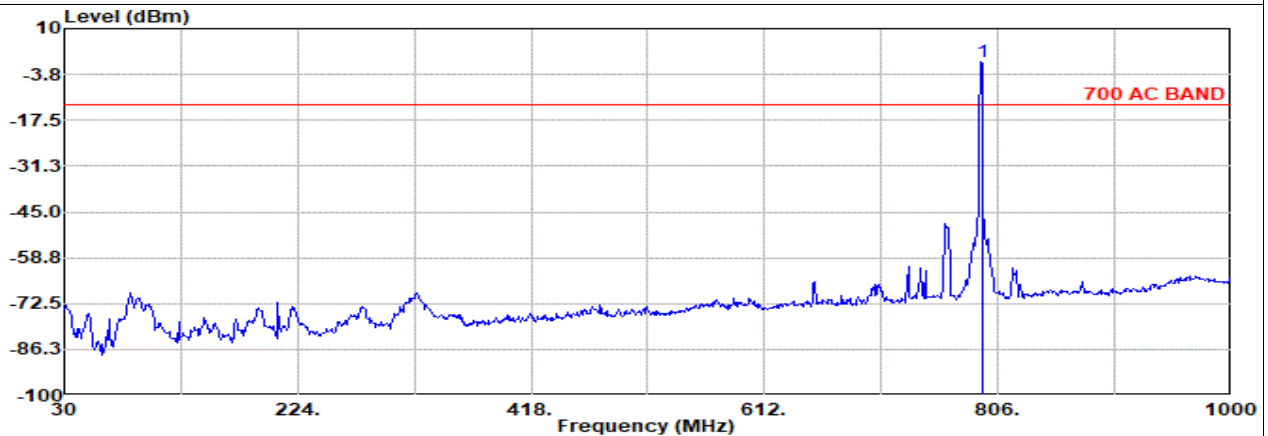
Site : 03CH22-HY

Condition: 700 AC BAND 3m Bilog_55606 & 08_251126 Horizontal

: NR SA n14 5M Ch158600 1RB1 BPSK

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp	Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm							g	dBm	dB	
1	793.00	0.35	RMS	28.09	-27.66	0.21	-95.23	94.93	-13.00	13.35	Horizontal	



Site : 03CH22-HY

Condition: 700 AC BAND 3m Bilog_55606 & 08_251126 Vertical

: NR SA n14 5M Ch158600 1RB1 BPSK

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp	Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm							g	dBm	dB	
1	793.00	0.20	RMS	28.09	-27.66	0.21	-95.23	94.78	-13.00	13.20	Vertical	



Appendix C. Spot Check Evaluation on IHDT56AY2

Conclusion:

Conducted power and radiated spurious emission spot-check measurements were performed on the worst frequency bands and worst channels of the WWAN 2G/3G/4G/5G bands in the reference model (FCC ID: IHDT56AY1) to verify the applicability of the referenced test data in accordance with FCC KDB 484596 D01 Referencing Test Data v03.

The spot checks were performed in this report as specified in the ECR document. The spot-check results demonstrate comparable RF performance between the parent device and the variant device, with all observed differences within the acceptance criterion of 3 dB. All test results were referenced from FCC ID: IHDT56AY1 (Sporton Test Report FG672113C). Therefore, all referenced test data are considered representative of the variant device.

Test Item	Mode	IHDT56AY1 Parent Worst mode Test Result	IHDT56AY2 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	Average Power (dBm)				
	GSM850 ANT 0	32.35	31.79	0.56	3
	GSM850 ANT 1	32.72	31.96	0.76	3
	GSM1900 ANT 2	28.83	28.72	0.11	3
	WCDMA B5 ANT 0	23.35	23.01	0.34	3
	WCDMA B5 ANT 1	23.27	23.26	0.01	3
	WCDMA B2 ANT 2	22.99	22.96	0.03	3
	WCDMA B4 ANT 2	22.65	22.64	0.01	3
	Band5 ANT 0	23.09	22.87	0.22	3
	Band12 ANT 0	23.22	22.63	0.59	3
	Band13 ANT 0	22.93	22.78	0.15	3
	Band14 ANT 0	22.84	22.52	0.32	3
	Band17 ANT 0	23.19	22.86	0.33	3
	Band26 ANT 0	23.16	22.80	0.36	3
	Band71 ANT 0	23.25	22.96	0.29	3
	Band2 ANT 1	23.21	22.63	0.58	3
	Band4 ANT 1	22.51	22.49	0.02	3
	Band5 ANT 1	23.64	23.49	0.15	3
	Band7 ANT 1	22.74	22.51	0.23	3
	Band12 ANT 1	23.44	23.16	0.28	3
	Band13 ANT 1	23.16	23.12	0.04	3
	Band14 ANT 1	23.25	23.23	0.02	3
	Band17 ANT 1	23.36	23.12	0.24	3
	Band25 ANT 1	22.61	22.50	0.11	3
	Band26 ANT 1	23.68	23.27	0.41	3
	Band66 ANT 1	22.56	22.17	0.39	3
	Band71 ANT 1	23.48	23.25	0.23	3
	Band38 ANT 1	22.72	22.68	0.04	3
	Band41 ANT 1	25.75	25.69	0.06	3



	Band41C ANT 1	25.73	25.26	0.47	3
	Band2 ANT 2	22.92	22.76	0.16	3
	Band4 ANT 2	22.89	22.87	0.02	3
	Band7 ANT 2	23.07	22.95	0.12	3
	Band25 ANT 2	23.01	22.94	0.07	3
	Band66 ANT 2	22.95	22.93	0.02	3
	Band38 ANT 2	23.05	22.93	0.12	3
	Band41 ANT 2	26.03	25.89	0.14	3
	Band41C ANT 2	26.70	25.50	1.20	3
	Band42-Part27Q ANT 5	23.21	23.17	0.04	3
	Band42-Part96 ANT 5	23.51	23.36	0.15	3
	Band48-Part96 ANT 5	23.56	23.53	0.03	3
	Band2 ANT 6	19.24	19.21	0.03	3
	Band4 ANT 6	21.49	21.21	0.28	3
	Band7 ANT 6	20.88	20.58	0.30	3
	Band25 ANT 6	21.23	21.21	0.02	3
	Band66 ANT 6	21.57	21.33	0.24	3
	Band38 ANT 6	21.05	20.70	0.35	3
	Band41 ANT 6	23.88	23.62	0.26	3
	Band41C ANT 6	23.69	23.40	0.29	3
	Band42-Part27Q ANT 7	23.58	23.49	0.09	3
	Band42-Part96 ANT 7	23.59	23.55	0.04	3
	Band48-Part96 ANT 7	23.61	23.45	0.16	3
	N5 ANT 0	26.93	26.78	0.15	3
	N26H ANT 0	26.96	26.93	0.03	3
	N26L ANT 0	26.98	26.95	0.03	3
	N2 ANT 2	23.5	23.46	0.04	3
	N2 ANT 1	23.17	23.15	0.02	3
	N25 ANT 2	23.68	23.63	0.05	3
	N25 ANT 1	23.19	23.17	0.02	3
	N2 TXD ANT 2+1	26.47	26.41	0.06	3
	N13 ANT 0	23.44	23.39	0.05	3
	N12 ANT 0	23.58	23.55	0.03	3
	N66 ANT 2	23.55	23.53	0.02	3
	N66 ANT 1	23.51	23.26	0.25	3
	N66 TXD ANT 2+1	26.7	26.47	0.23	3
	N70 ANT 2	23.42	23.38	0.04	3
	N70 ANT 1	23.13	23.08	0.05	3
	N7 ANT 2	23.47	23.43	0.04	3
	N7 ANT 1	23.45	23.39	0.06	3



	N7 TXD ANT 2+1	26.46	26.43	0.03	3
	N38 ANT 2	23.33	23.26	0.07	3
	N38 ANT 1	23.14	23.08	0.06	3
	N41 ANT 2	26.78	26.63	0.15	3
	N41 ANT 1	26.41	26.33	0.08	3
	N41 TXD ANT 2+1	28.32	28.12	0.2	3
	N41C ANT 2	26.62	26.58	0.04	3
	N41C ANT 1	25.75	25.88	0.13	3
	N48 A ANT 7	23.98	23.89	0.09	3
	N48 A ANT 5	23.97	23.76	0.21	3
	N48 MIMO ANT 7+5	23.98	23.68	0.3	3

Test Item	Mode	IHDT56AY1 Parent Worst mode Test Result(dB)	IHDT56AY2 Variant Check Test Result(dB)	Deviation (dB)	Deviation Limit (dB)
Radiated Spurious Emission	Part 22/24/27/90/96 (n48 MIMO 40M Ch641666)	-3.61	-6.24	2.67	3

Test Items	Remark
Conducted Output Power	Spot Check Evaluation
Effective Radiated Power	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Equivalent Isotropic Radiated Power	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Peak-to-Average Ratio	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Occupied Bandwidth	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Conducted Band Edge Measuremen	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Emission Mask	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Conducted Spurious Emission	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Frequency Stability Temperature & Voltage	Please refer to FCC ID: IHDT56AY1 (Sporton Test Report FG672113C)
Radiated Spurious Emission	Spot Check Evaluation



Appendix D. Original Report