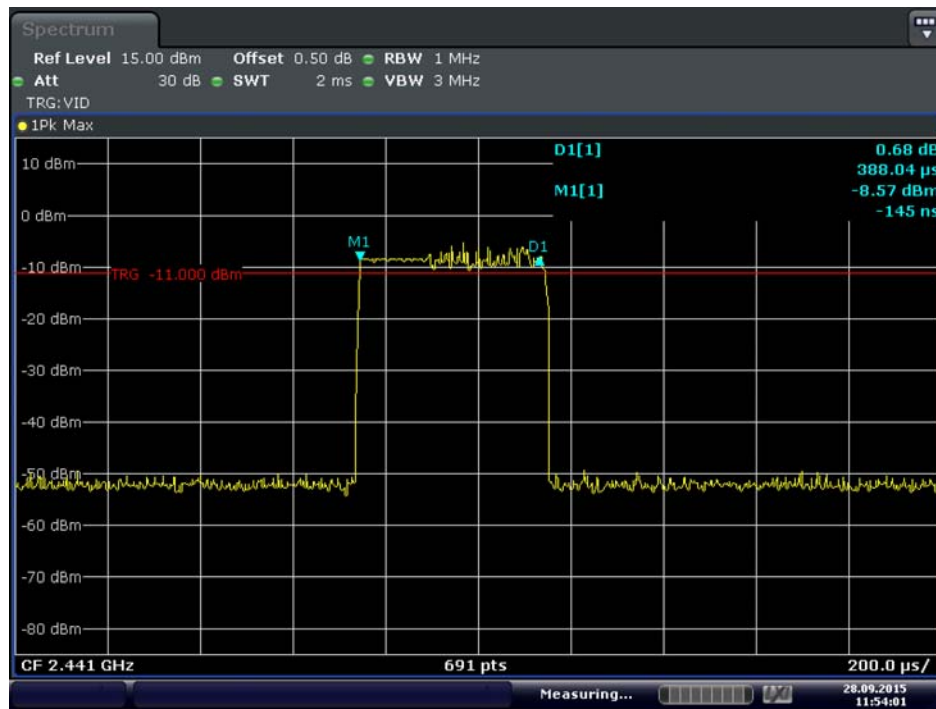
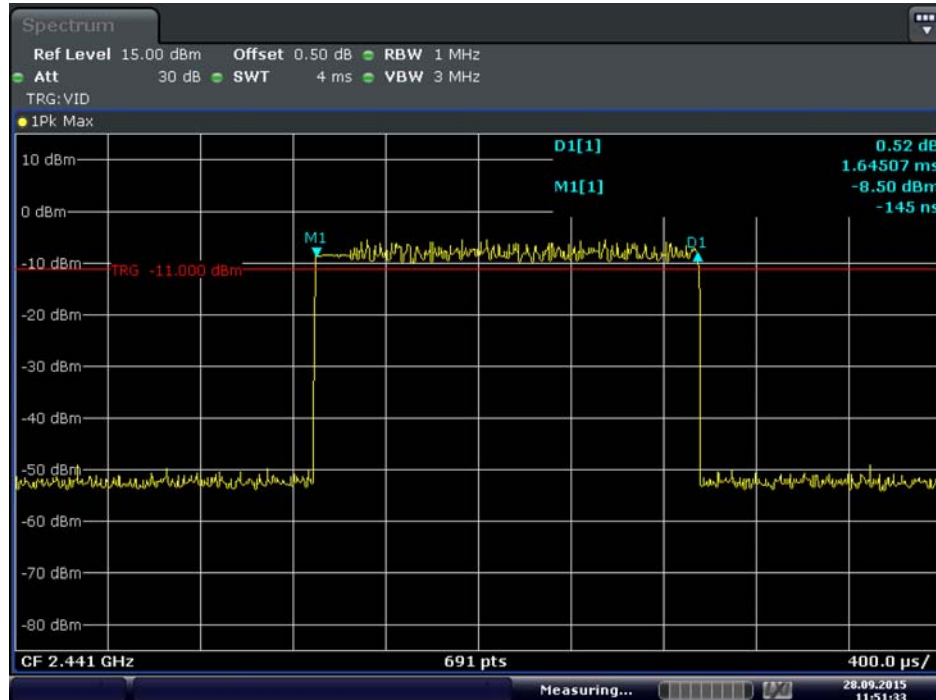


8-DPSK DH1



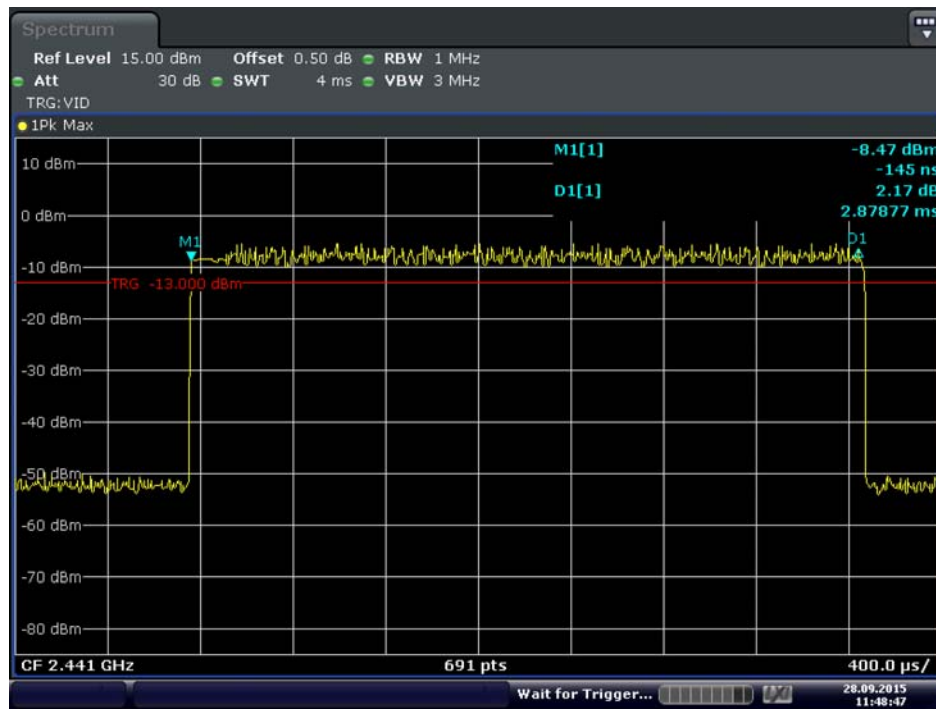
Date: 28.SEP.2015 11:54:02

8-DPSK DH3



Date: 28.SEP.2015 11:51:34

8-DPSK DH5



Date: 28.SEP.2015 11:48:47

A.6 Conducted Spurious Emissions

Test Data

GFSK Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.41	-0.84	-20.84	Pass
Middle	-37.95	0.21	-19.79	Pass
High	-38.05	-0.05	-20.05	Pass

□/4-DQPSK Mode:

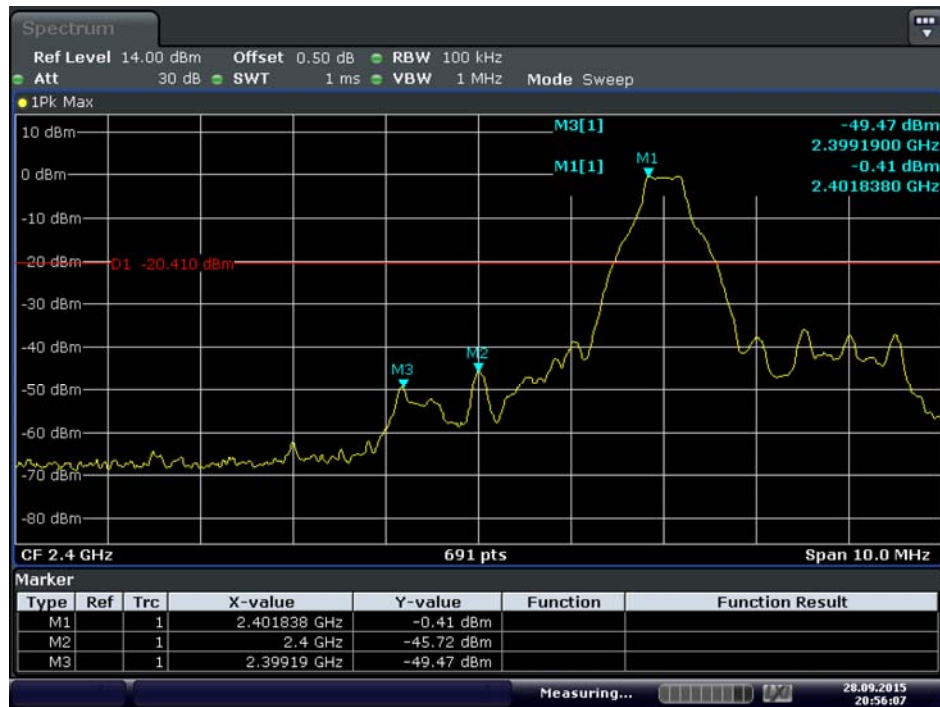
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-42.38	-0.36	-20.36	Pass
Middle	-46.62	-2.22	-22.22	Pass
High	-43.96	-3.22	-23.22	Pass

8-DPSK Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-47.46	-3.58	-23.58	Pass
Middle	-40.89	-2.04	-22.04	Pass
High	-40.82	-3.15	-23.15	Pass

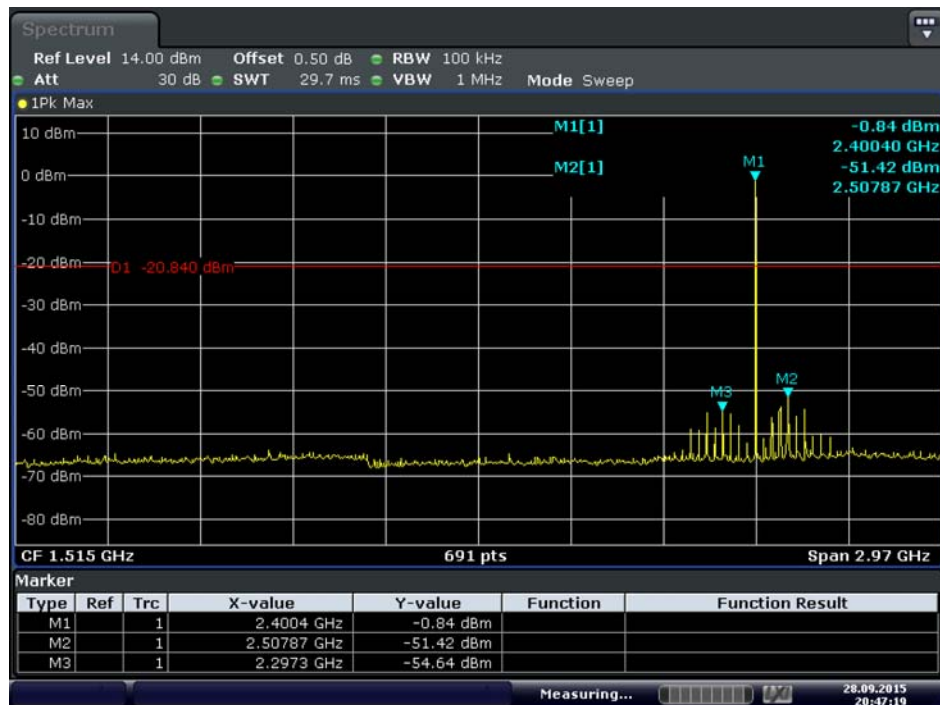
Test Plots

GFSK LOW CHANNEL , BAND EDGE



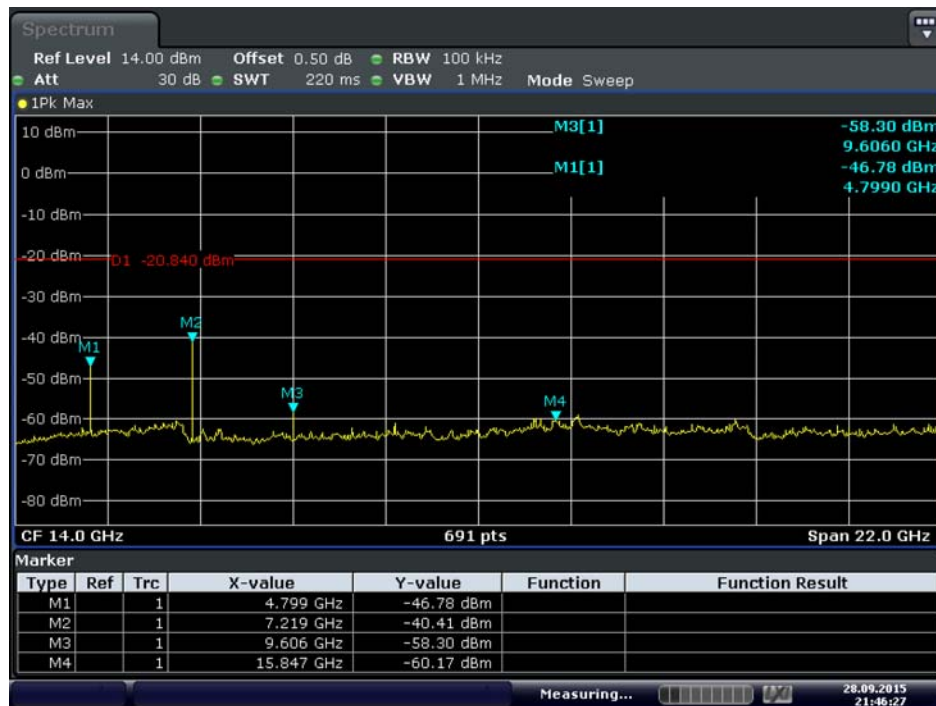
Date: 28.SEP.2015 20:56:08

GFSK LOW CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



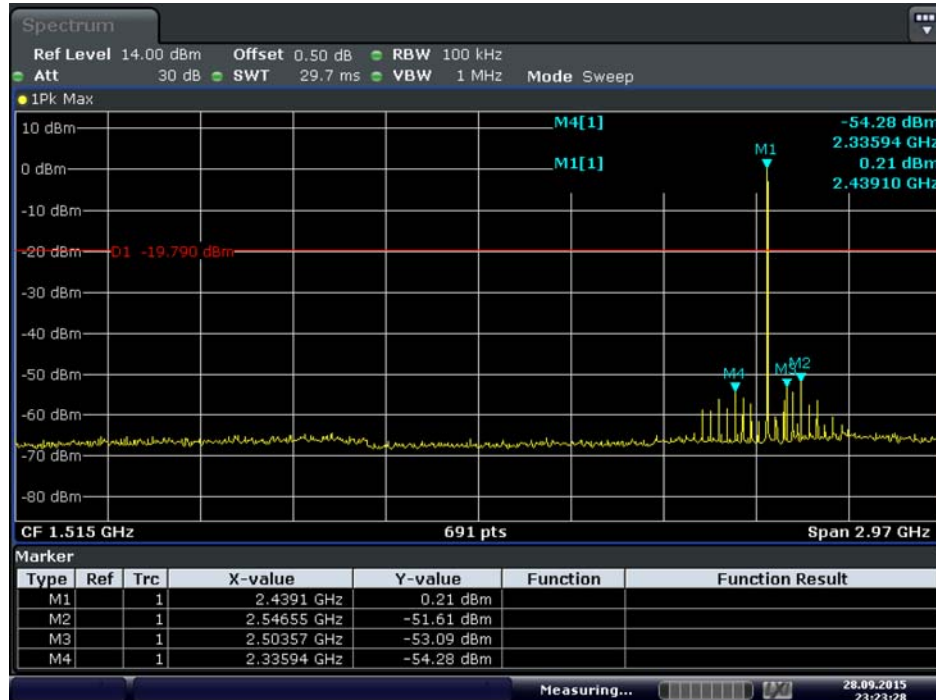
Date: 28.SEP.2015 20:47:19

GFSK LOW CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



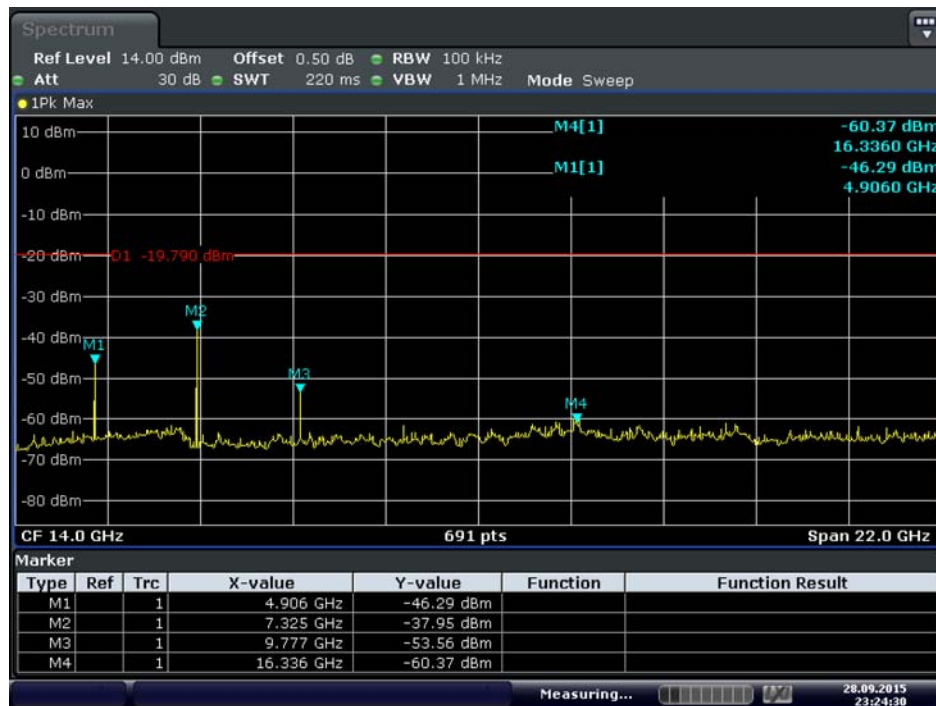
Date: 28.SEP.2015 21:46:28

GFSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



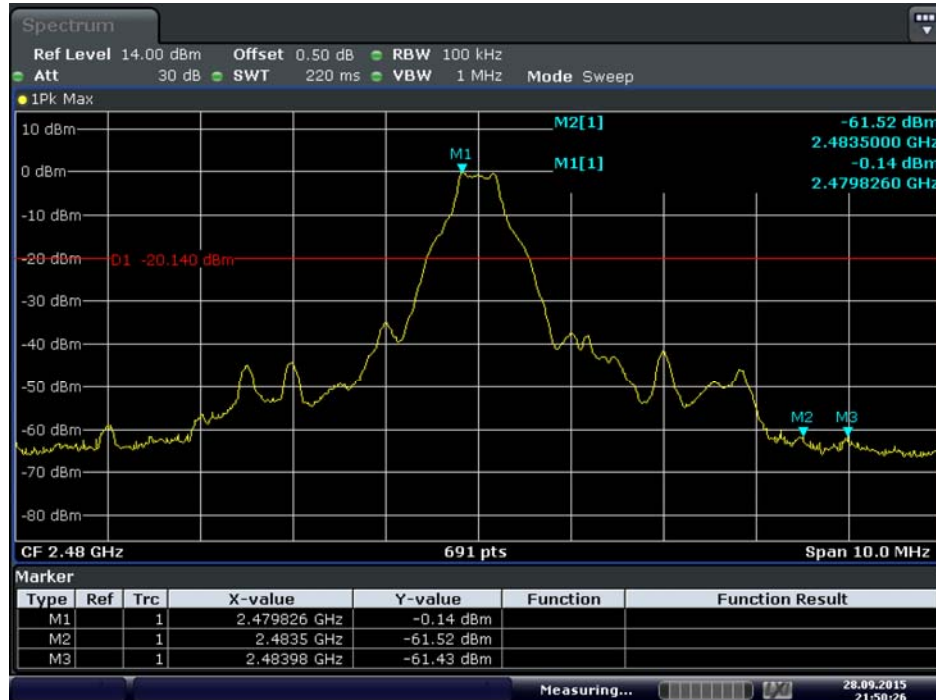
Date: 28.SEP.2015 23:23:28

GFSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



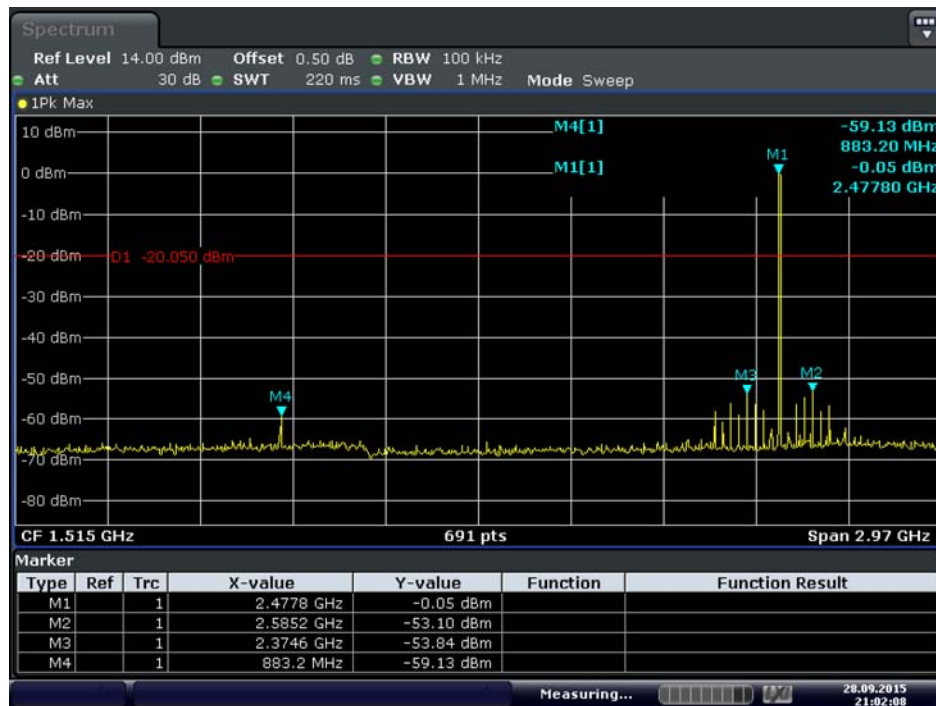
Date: 28.SEP.2015 23:24:31

GFSK HIGH CHANNEL , BAND EDGE



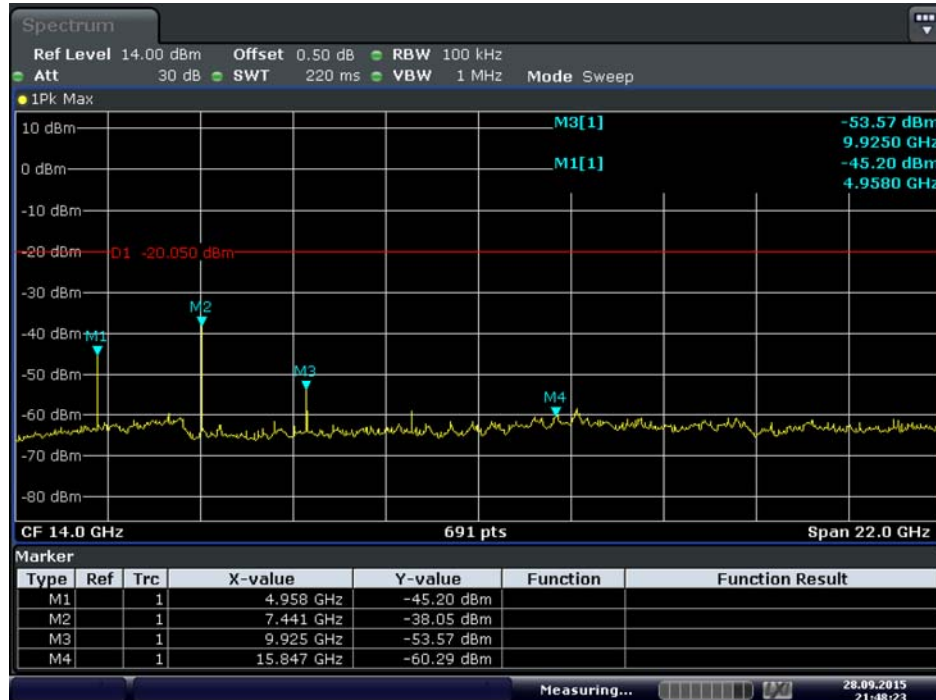
Date: 28.SEP.2015 21:50:26

GFSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



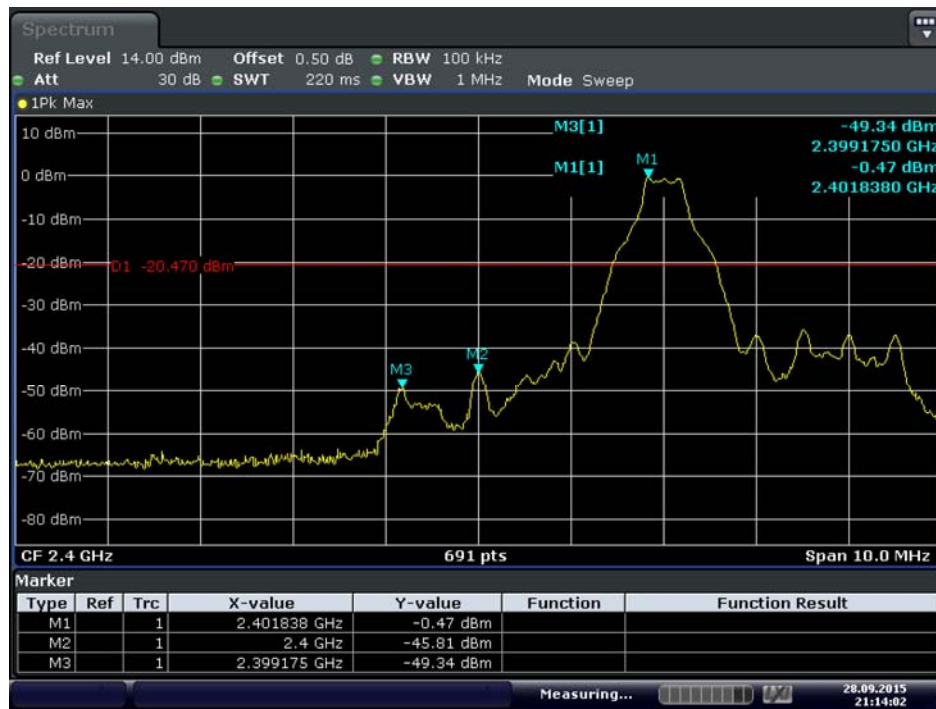
Date: 28.SEP.2015 21:02:08

GFSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



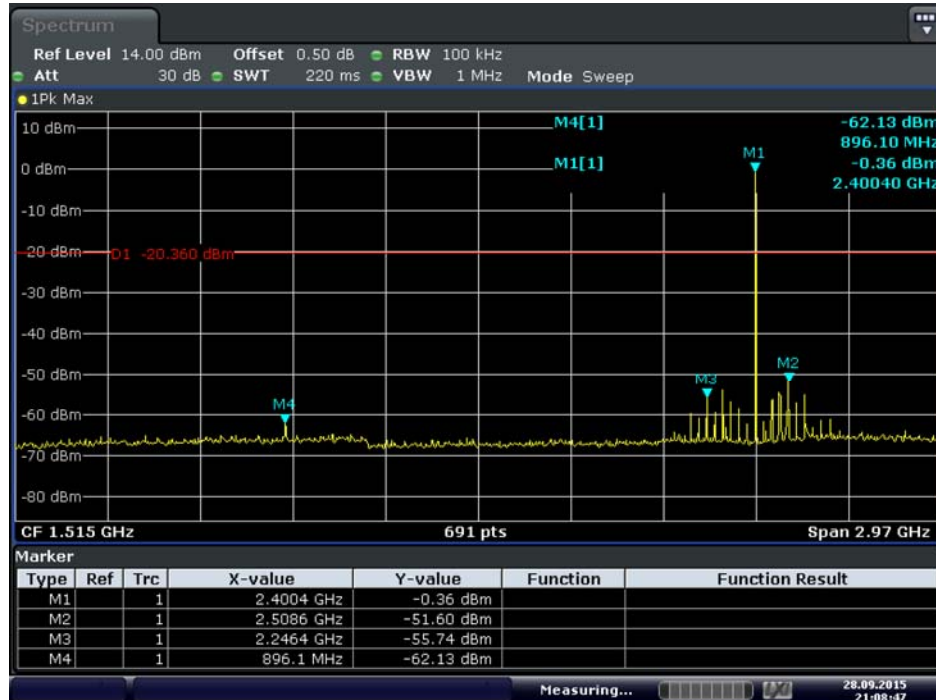
Date: 28.SEP.2015 21:48:23

□/4-DQPSK LOW CHANNEL , BAND EDGE



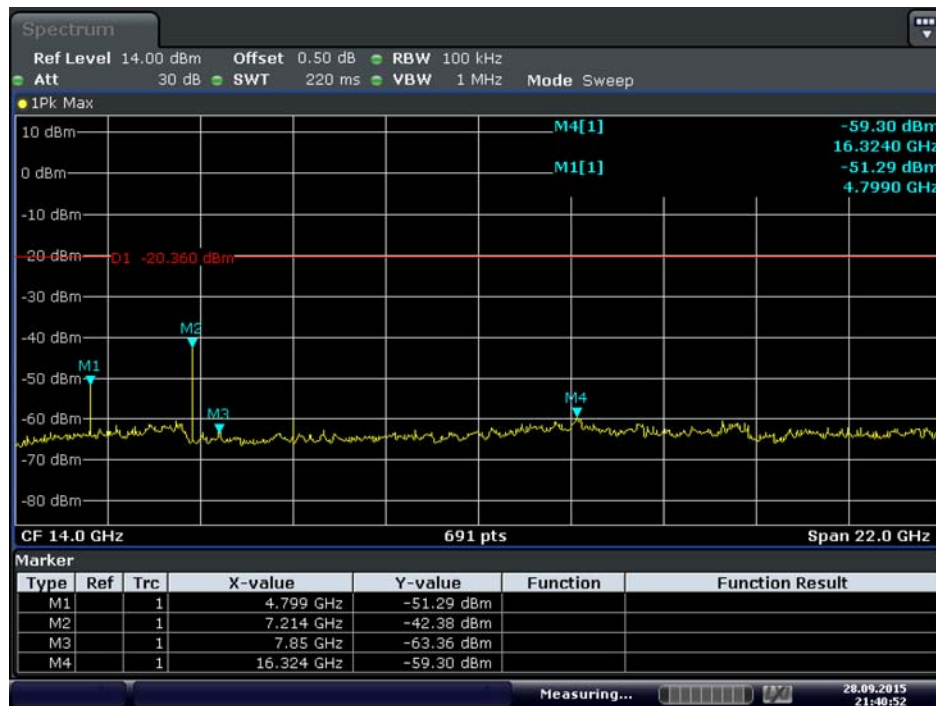
Date: 28.SEP.2015 21:14:03

□/4-DQPSK LOW CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



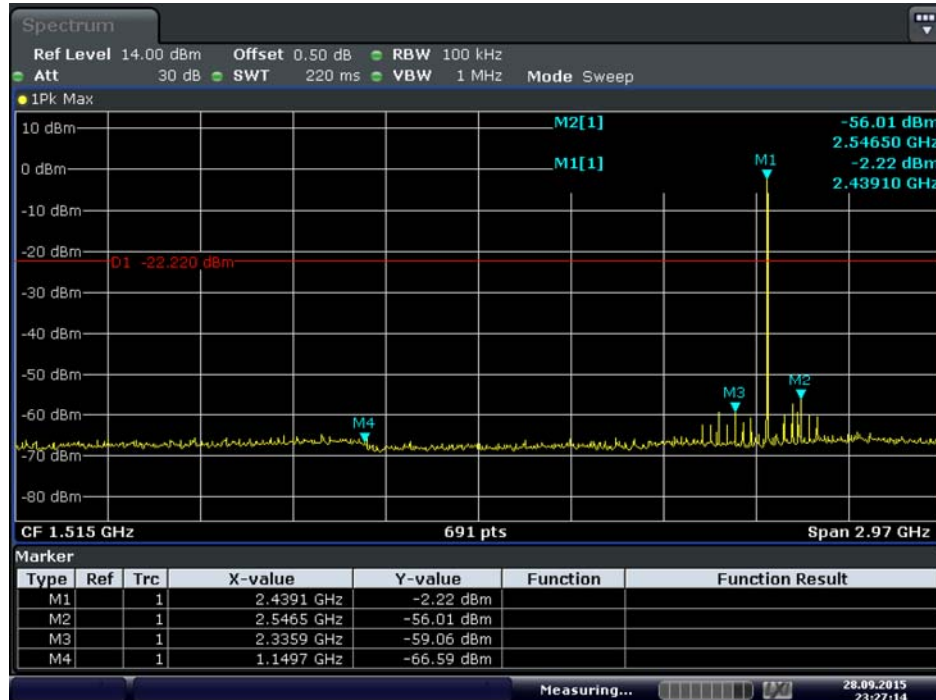
Date: 28.SEP.2015 21:08:47

Π/4-DQPSK LOW CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



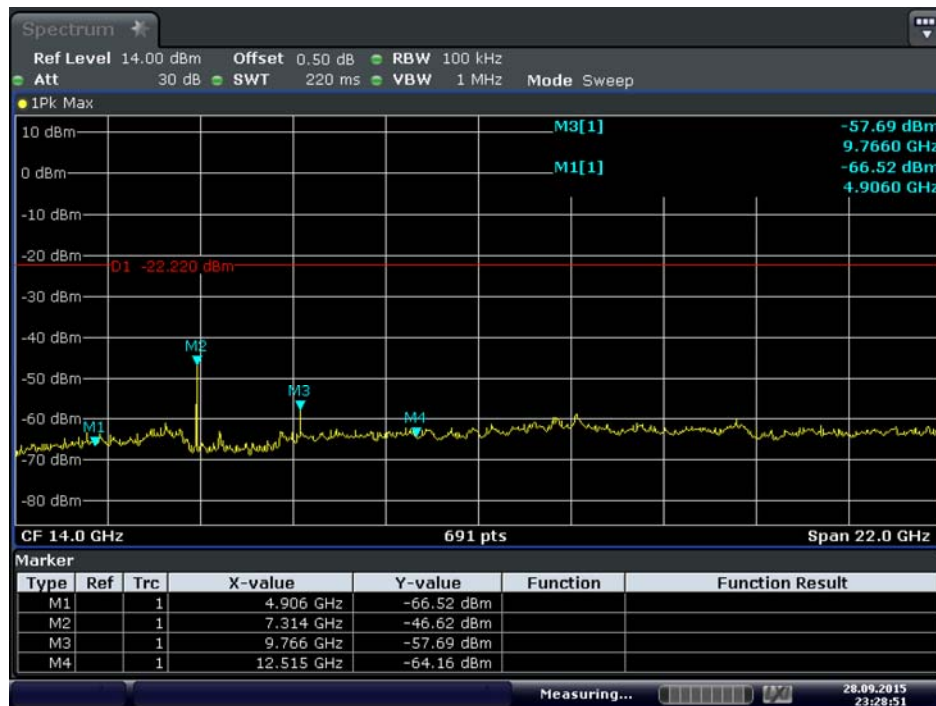
Date: 28.SEP.2015 21:40:52

Π/4-DQPSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



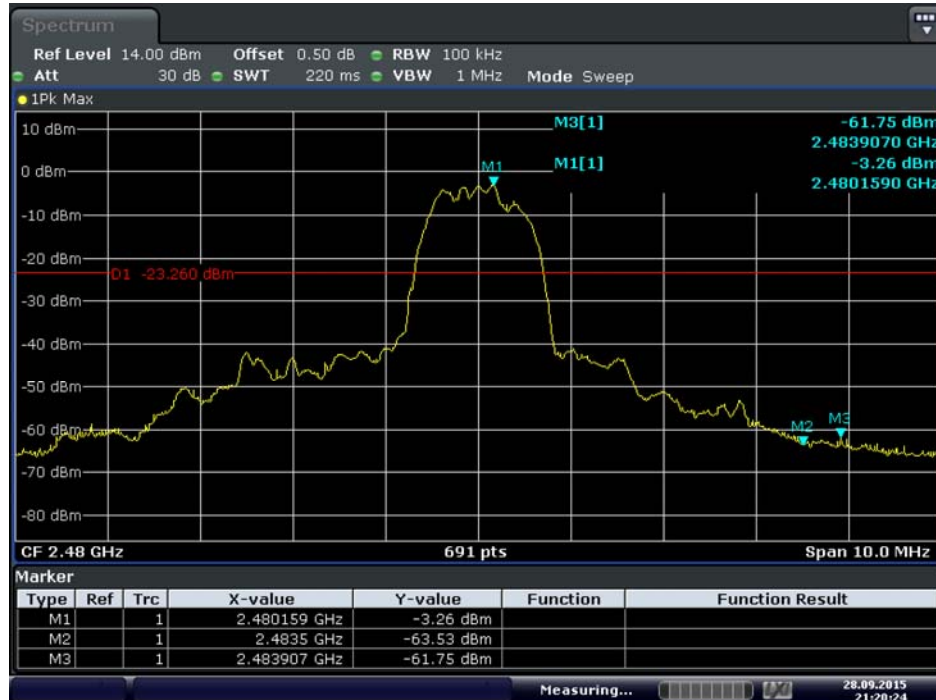
Date: 28.SEP.2015 23:27:14

□/4-DQPSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



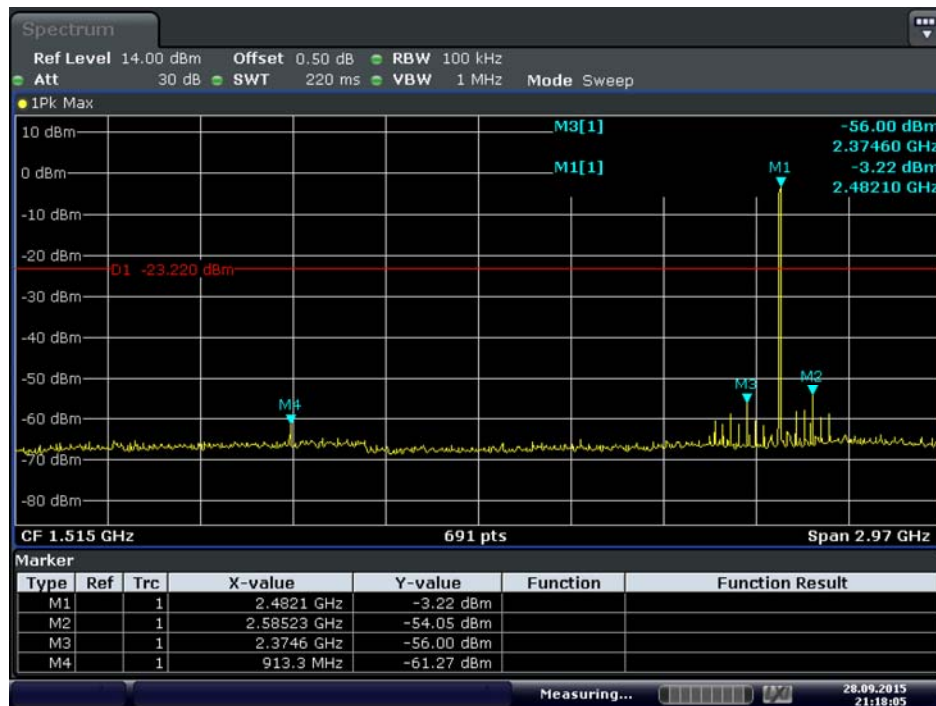
Date: 28.SEP.2015 23:28:51

□/4-DQPSK HIGH CHANNEL , BAND EDGE



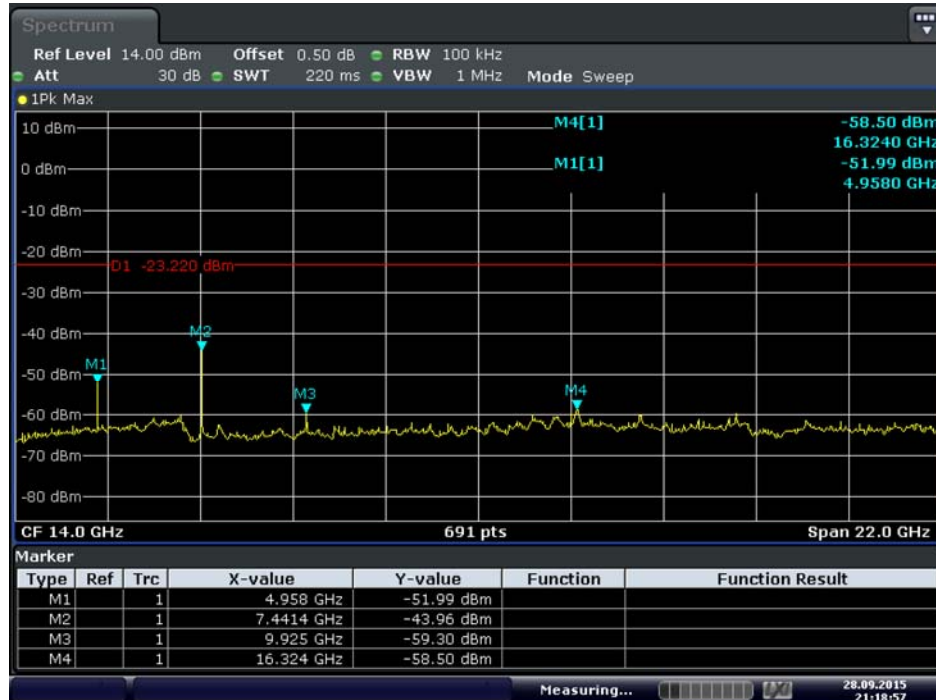
Date: 28.SEP.2015 21:20:24

$\pi/4$ -DQPSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



Date: 28.SEP.2015 21:18:06

$\pi/4$ -DQPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



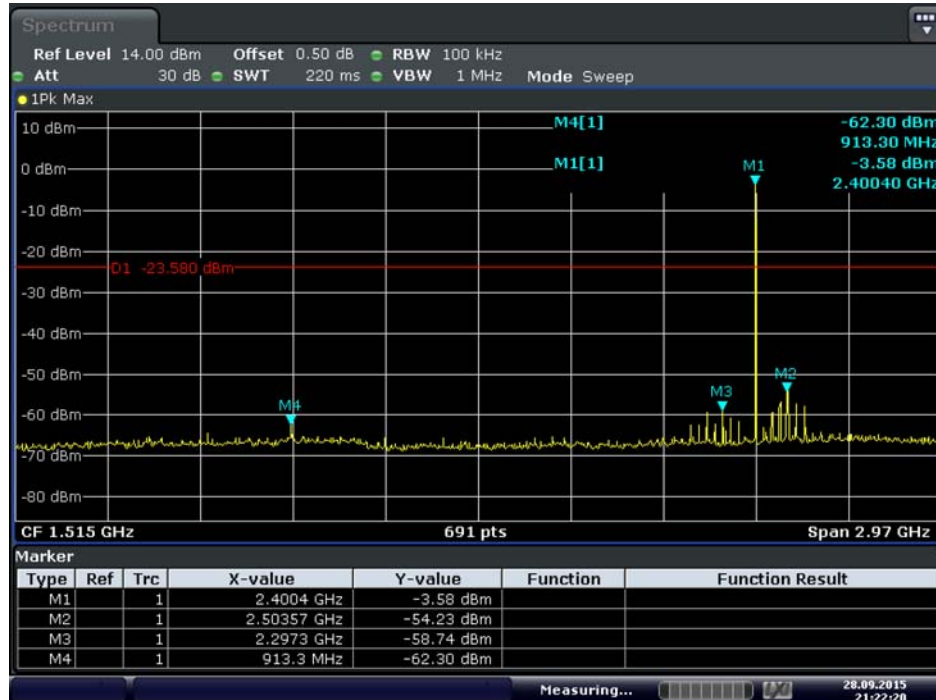
Date: 28.SEP.2015 21:18:57

8-DPSK LOW CHANNEL , BAND EDGE



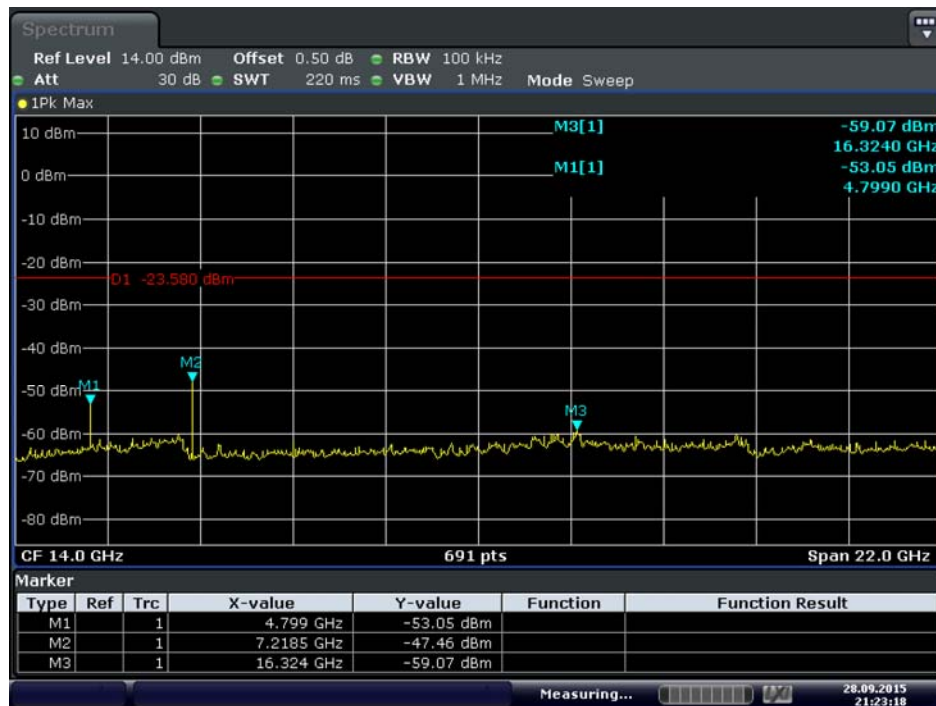
Date: 28.SEP.2015 21:24:58

8-DPSK LOW CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



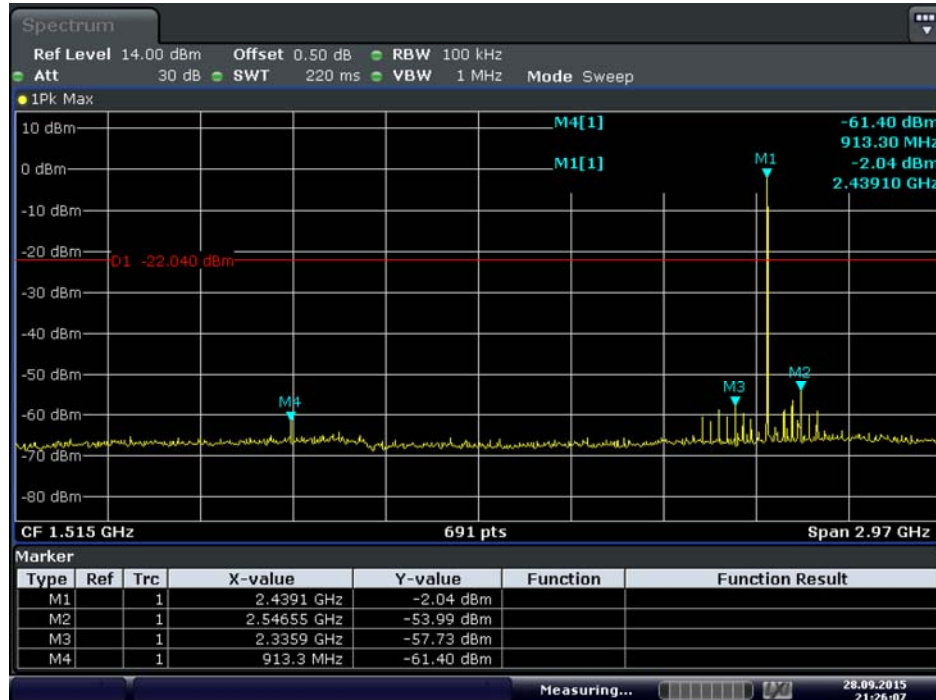
Date: 28.SEP.2015 21:22:21

8-DPSK LOW CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



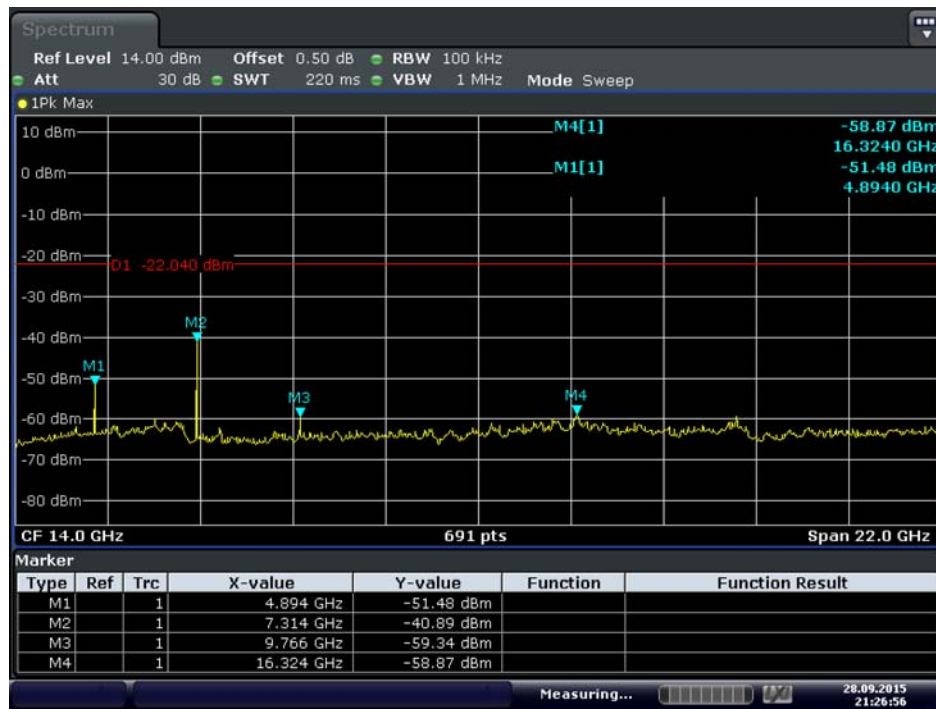
Date: 28.SEP.2015 21:23:18

8-DPSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



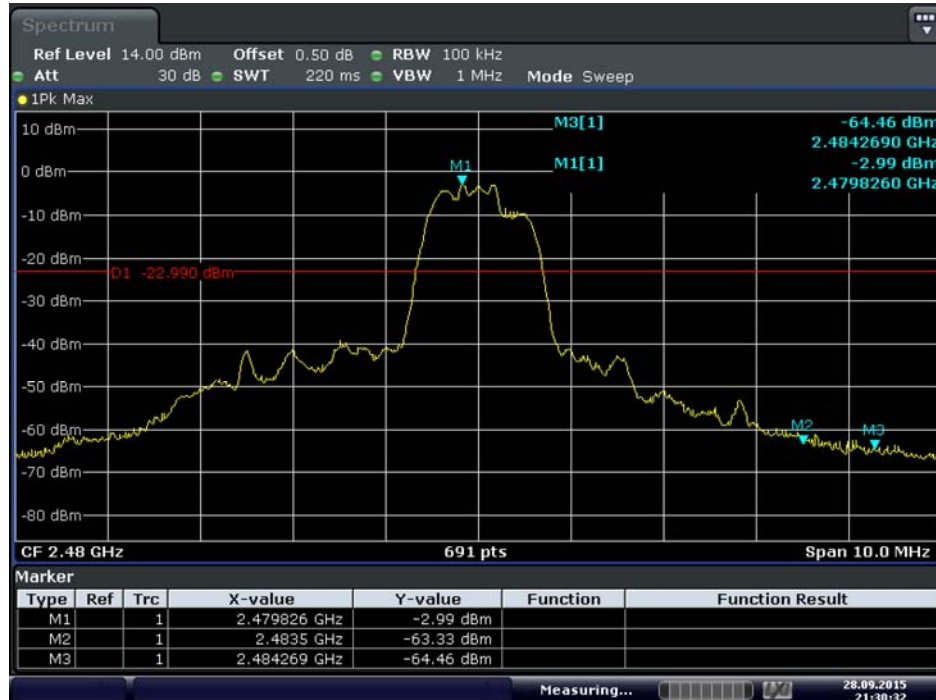
Date: 28.SEP.2015 21:26:07

8-DPSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



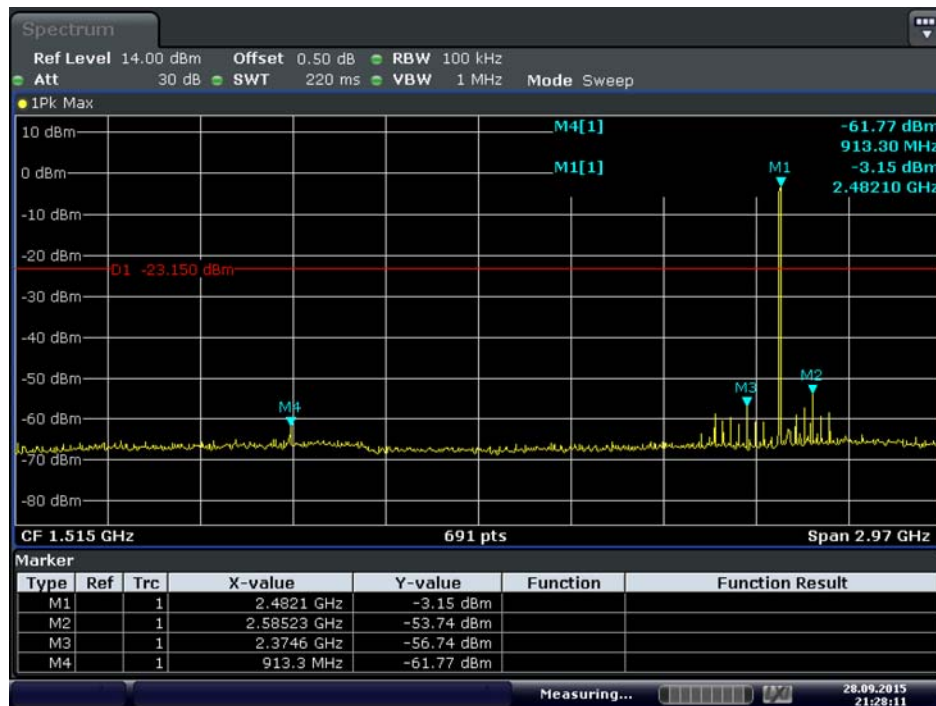
Date: 28.SEP.2015 21:26:56

8-DPSK HIGH CHANNEL , BAND EDGE



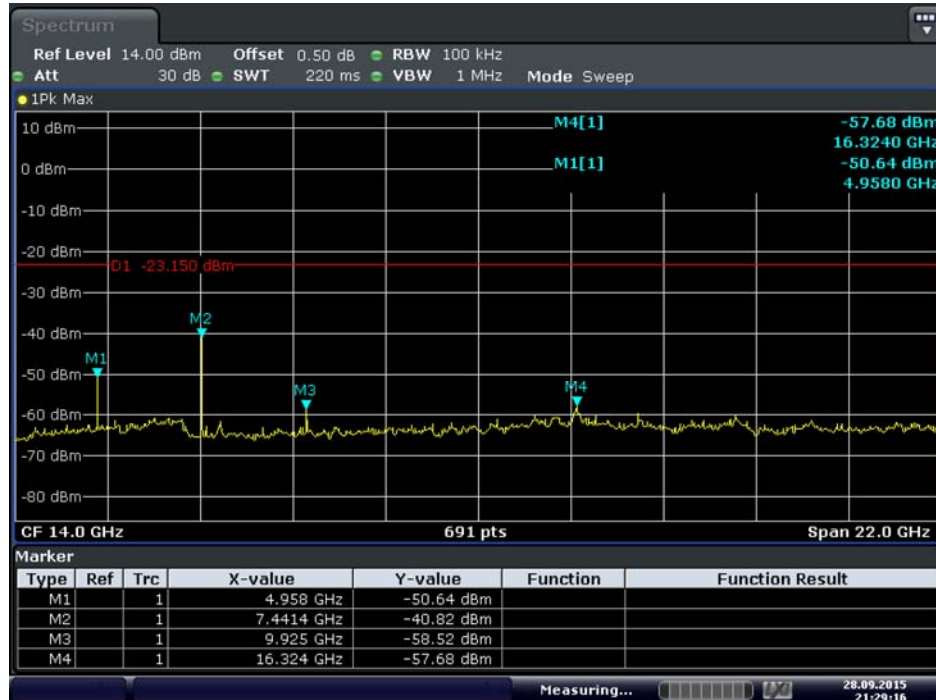
Date: 28.SEP.2015 21:30:32

8-DPSK HIGH CHANNEL , SPURIOUS 30 MHz ~3 GHz



Date: 28.SEP.2015 21:28:11

8-DPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



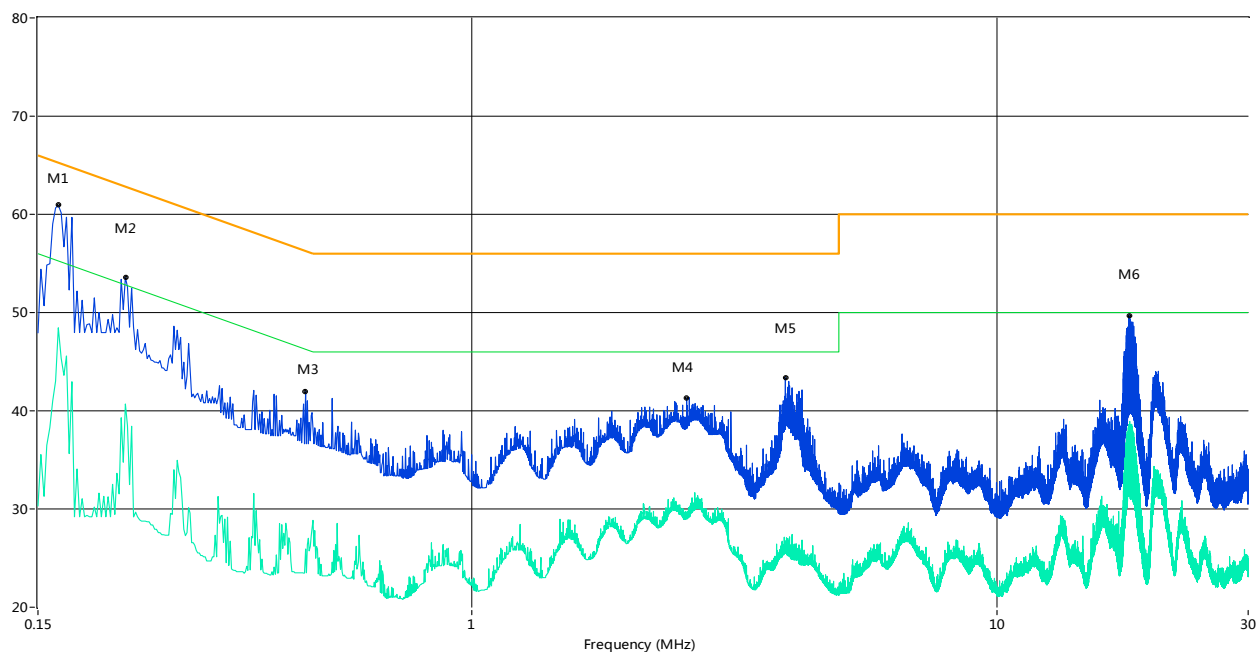
Date: 28.SEP.2015 21:29:16

A.7 Conducted Emissions

Note: All configurations have been tested, only the worst configuration (GFSK High Channel) shown here.

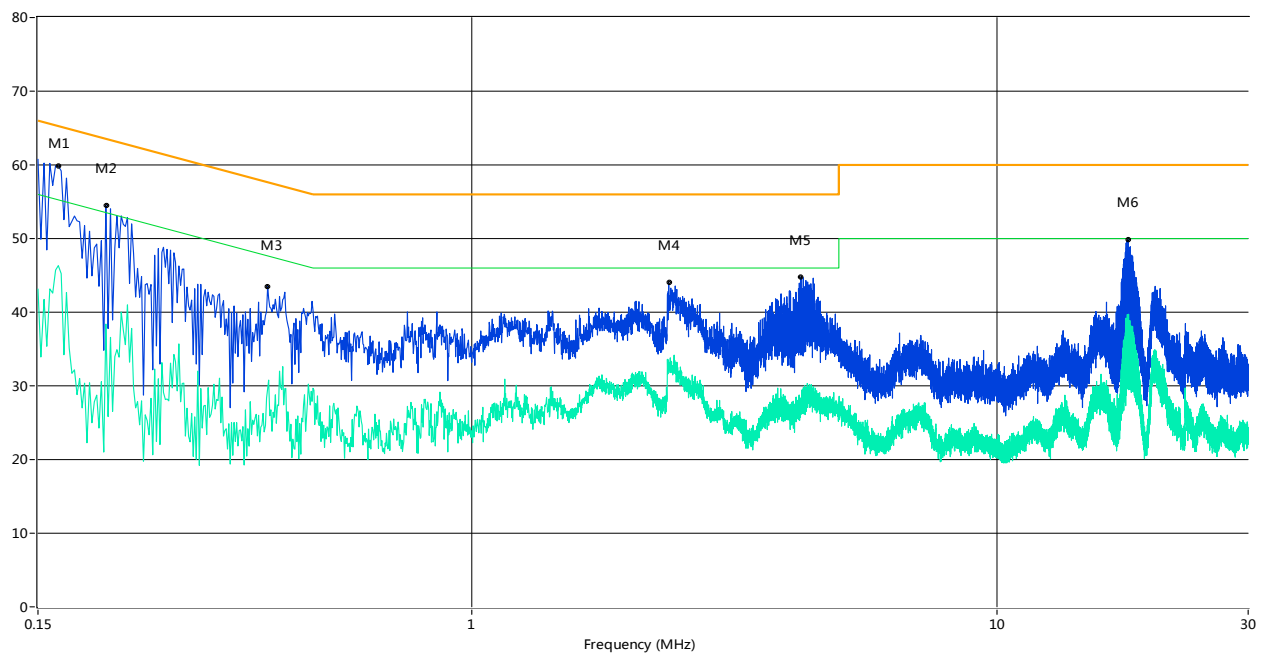
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.16	60.9	13.00	65.6	4.70	Peak	L Line	Pass
1**	0.16	48.5	13.00	55.6	7.10	AV	L Line	Pass
2	0.22	53.6	13.00	64.0	10.40	Peak	L Line	Pass
2**	0.22	40.7	13.00	54.0	13.30	AV	L Line	Pass
3	0.48	42.0	13.00	56.5	14.50	Peak	L Line	Pass
3**	0.48	25.9	13.00	46.5	20.60	AV	L Line	Pass
4	2.57	41.3	13.00	56.0	14.70	Peak	L Line	Pass
4**	2.57	29.0	13.00	46.0	17.00	AV	L Line	Pass
5	3.95	43.4	13.00	56.0	12.60	Peak	L Line	Pass
5**	3.95	26.5	13.00	46.0	19.50	AV	L Line	Pass
6	17.82	49.7	13.00	60.0	10.30	Peak	L Line	Pass
6**	17.82	37.6	13.00	50.0	12.40	AV	L Line	Pass

PHASE N

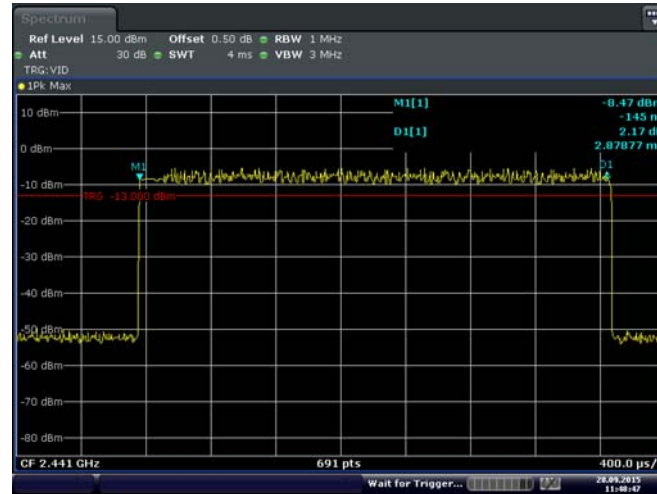


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.16	59.9	13.00	65.6	5.70	Peak	N Line	Pass
1**	0.16	46.3	13.00	55.6	9.30	AV	N Line	Pass
2	0.20	54.5	13.00	64.5	10.00	Peak	N Line	Pass
2**	0.20	38.4	13.00	54.5	16.10	AV	N Line	Pass
3	0.41	43.5	13.00	58.6	15.10	Peak	N Line	Pass
3**	0.41	29.7	13.00	48.6	18.90	AV	N Line	Pass
4	2.37	44.0	13.00	56.0	12.00	Peak	N Line	Pass
4**	2.37	33.0	13.00	46.0	13.00	AV	N Line	Pass
5	4.23	44.8	13.00	56.0	11.20	Peak	N Line	Pass
5**	4.23	28.3	13.00	46.0	17.70	AV	N Line	Pass
6	17.75	49.8	13.00	60.0	10.20	Peak	N Line	Pass
6**	17.75	38.4	13.00	50.0	11.60	AV	N Line	Pass

A.8 Radiated Emission

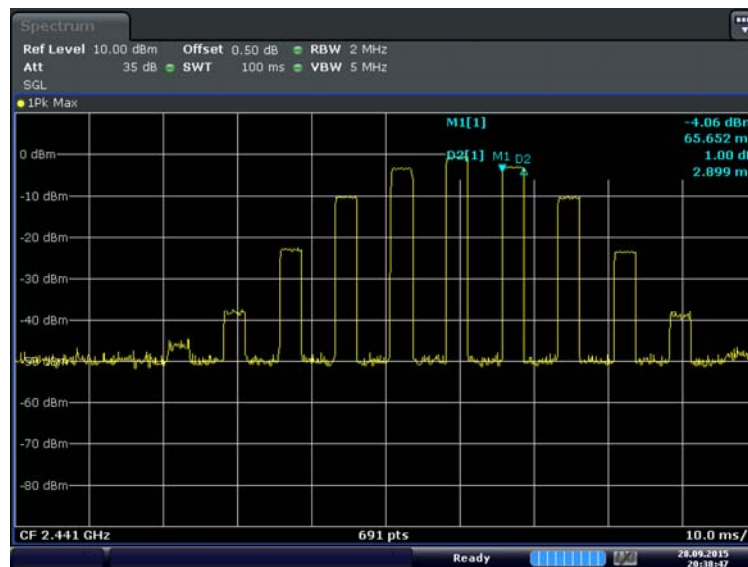
Duty cycle correction factor for average measurement.

DH5 on time/100 ms(Count Pulses) Plot on Channel 39



Date: 28.SEP.2015 11:48:47

DH5 on time/100 ms(One Pulse) Plot on Channel 39



Date: 28.SEP.2015 20:38:47

Note:

1. Duty cycle = on time/100 milliseconds = $3 \times 2.88 / 100 = 20.16 \%$
2. Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -13.91 \text{ dB}$
3. DH5 has the highest duty cycle and is reported.

Note 1: The symbol of “--” in the table which means not application.

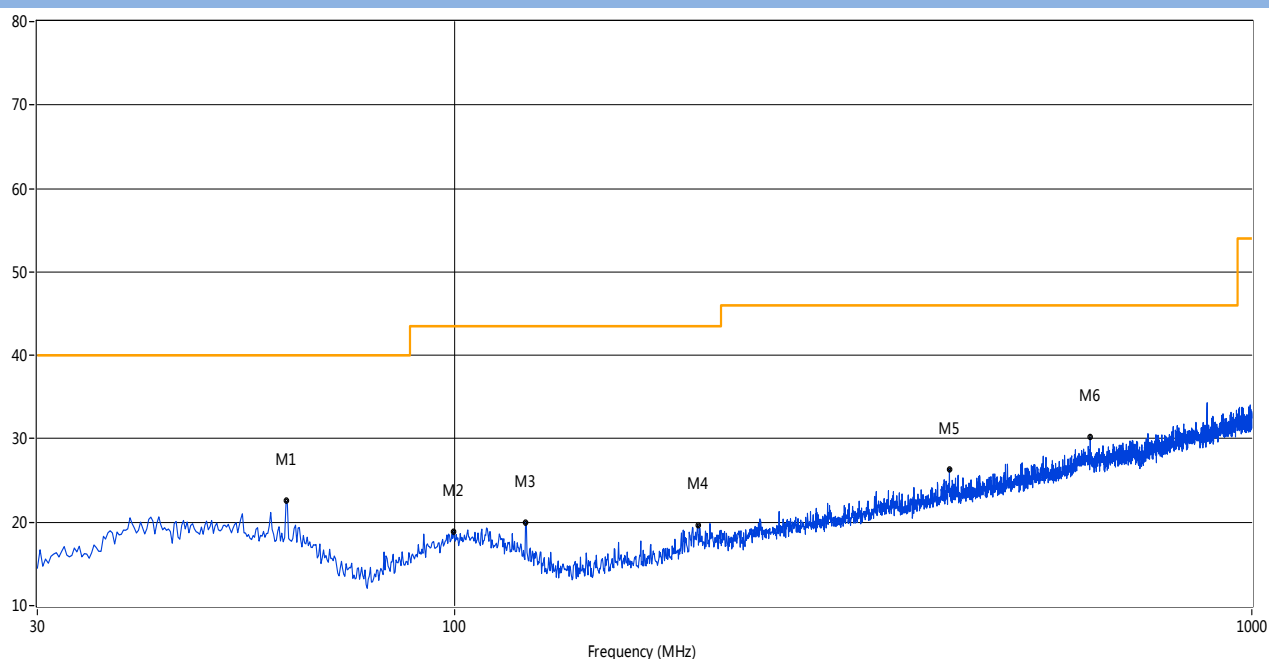
Note 2: For the test data above 1 GHz , According the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: All configurations have been tested, only the worst configuration (GFSK High Channel) shown here.

Test Data and Plots

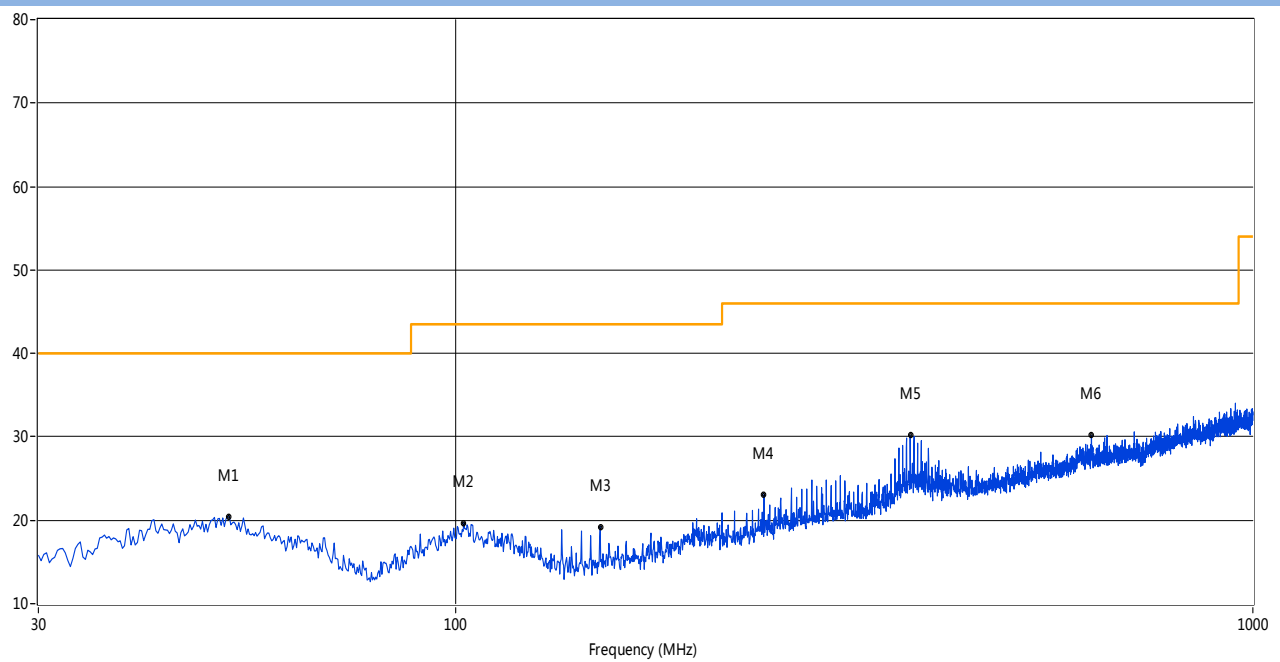
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	61.52	22.53	-20.23	40.0	17.47	Peak	305.60	100	Vertical	Pass
2	99.82	18.87	-20.20	43.5	24.63	Peak	21.60	100	Vertical	Pass
3	122.85	20.00	-22.14	43.5	23.50	Peak	301.90	100	Vertical	Pass
4	202.13	19.66	-20.15	43.5	23.84	Peak	36.10	100	Vertical	Pass
5	417.66	26.37	-14.70	46.0	19.63	Peak	102.40	100	Vertical	Pass
6	627.13	30.17	-10.25	46.0	15.83	Peak	276.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT H



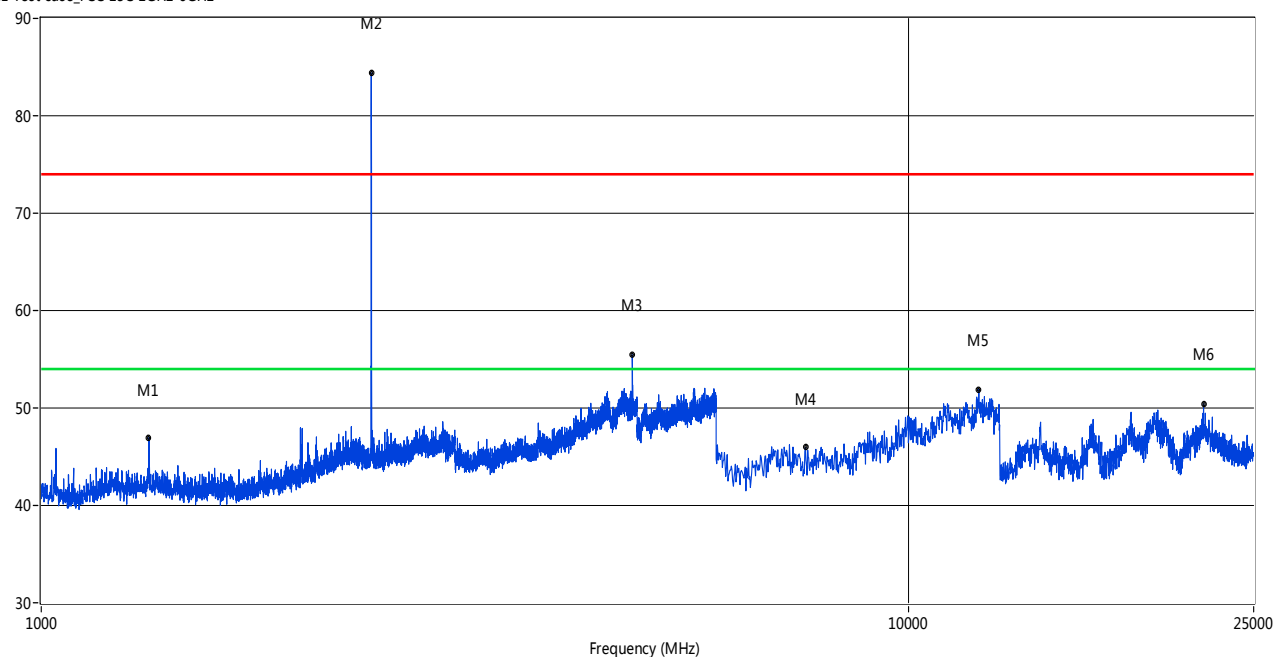
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	52.06	20.44	-18.62	40.0	19.56	Peak	131.00	100	Horizontal	Pass
2	102.49	19.72	-20.25	43.5	23.78	Peak	319.50	100	Horizontal	Pass
3	151.95	19.25	-23.41	43.5	24.25	Peak	160.20	100	Horizontal	Pass
4	243.83	23.09	-18.98	46.0	22.91	Peak	127.30	100	Horizontal	Pass
5	371.84	30.16	-15.95	46.0	15.84	Peak	297.40	100	Horizontal	Pass
6	627.37	30.18	-10.24	46.0	15.82	Peak	187.30	100	Horizontal	Pass

Note: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Test Data and Plots (1 GHz ~ 10th Harmonic)

GFSK LOW CHANNEL 1 GHz to 25 GHz, ANT V

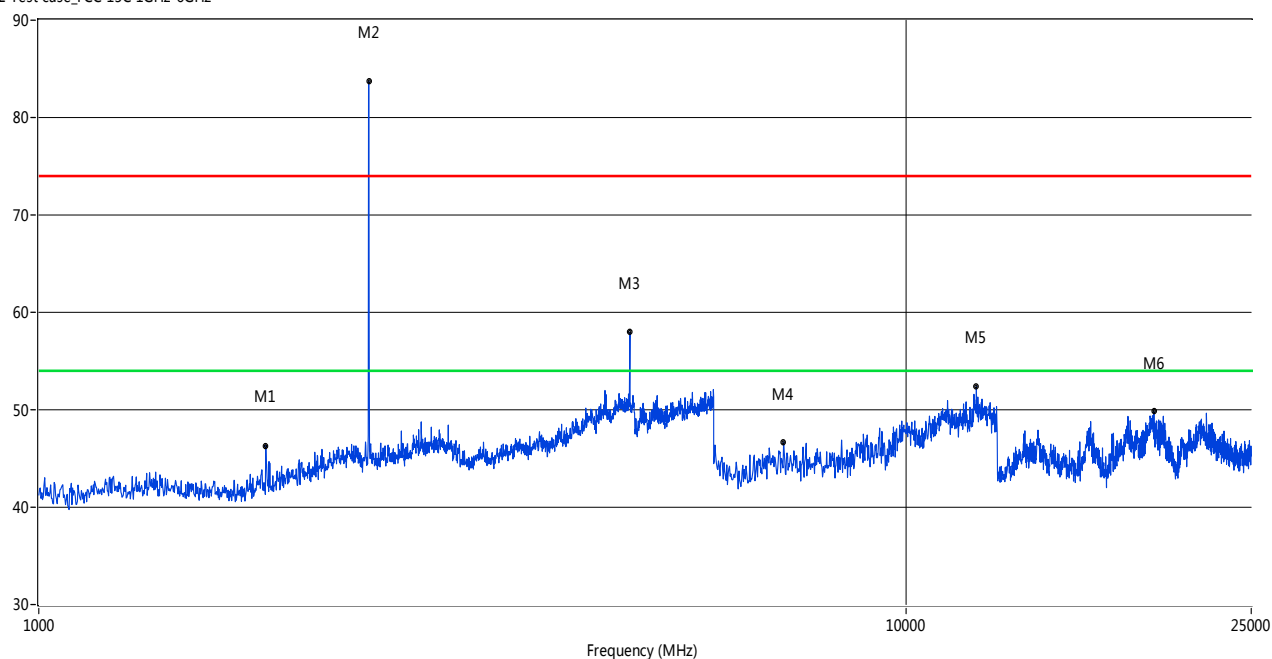
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1330.92	46.98	-4.82	74.0	27.02	Peak	190.10	100	Vertical	Pass
2	2402.15	84.41	-0.34	74.0	-10.41	Peak	332.90	100	Vertical	N/A
3	4804.05	55.47	13.74	74.0	18.53	Peak	311.10	100	Vertical	Pass
3**	4804.05	41.56	13.74	54.0	12.44	AV	311.10	100	Vertical	Pass
4	7606.07	45.96	14.29	74.0	28.04	Peak	1.40	100	Vertical	Pass
5	12053.66	51.92	20.82	74.0	22.08	Peak	269.70	100	Vertical	Pass
6	21885.19	50.43	12.61	74.0	23.57	Peak	325.20	100	Vertical	Pass

GFSK LOW CHANNEL 1 GHz to 25 GHz, ANT H

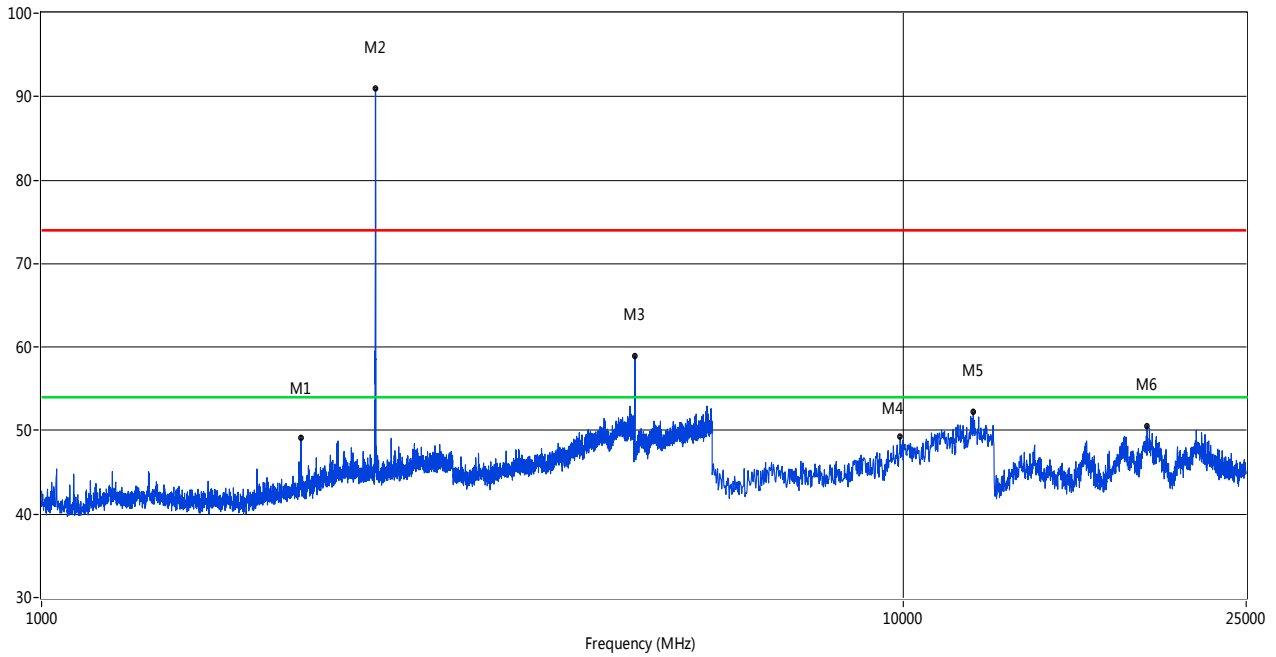
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1827.17	46.33	-3.46	74.0	27.67	Peak	50.50	100	Horizontal	Pass
2	2402.60	83.74	-0.27	74.0	-9.74	Peak	179.30	100	Horizontal	N/A
3	4804.20	57.97	13.75	74.0	16.03	Peak	88.80	100	Horizontal	Pass
3**	4804.2	44.06	13.75	54.0	9.94	AV	88.80	100	Horizontal	Pass
4	7224.21	46.66	14.37	74.0	27.34	Peak	274.90	100	Horizontal	Pass
5	12053.66	52.41	20.82	74.0	21.59	Peak	269.70	100	Horizontal	Pass
6	19309.48	49.83	13.46	74.0	24.17	Peak	57.40	100	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V

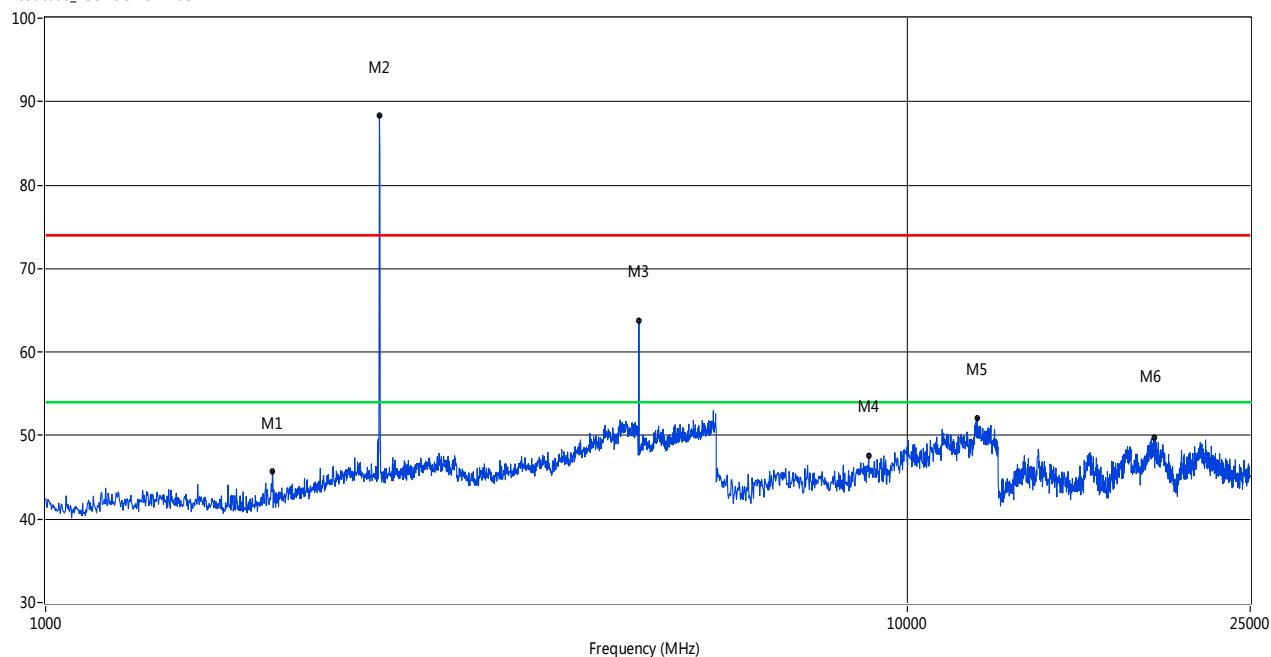
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2000.75	49.12	-2.36	74.0	24.88	Peak	276.40	100	Vertical	Pass
2	2440.64	90.93	-0.41	74.0	-16.93	Peak	332.10	100	Vertical	N/A
3	4882.03	58.97	13.60	74.0	15.03	Peak	306.20	100	Vertical	Pass
3**	4882.03	45.06	13.60	54.0	8.94	AV	306.20	100	Vertical	Pass
4	9919.72	49.23	19.09	74.0	24.77	Peak	92.10	100	Vertical	Pass
5	12053.66	52.19	20.82	74.0	21.81	Peak	269.70	100	Vertical	Pass
6	19189.68	50.49	14.08	74.0	23.51	Peak	360.20	100	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H

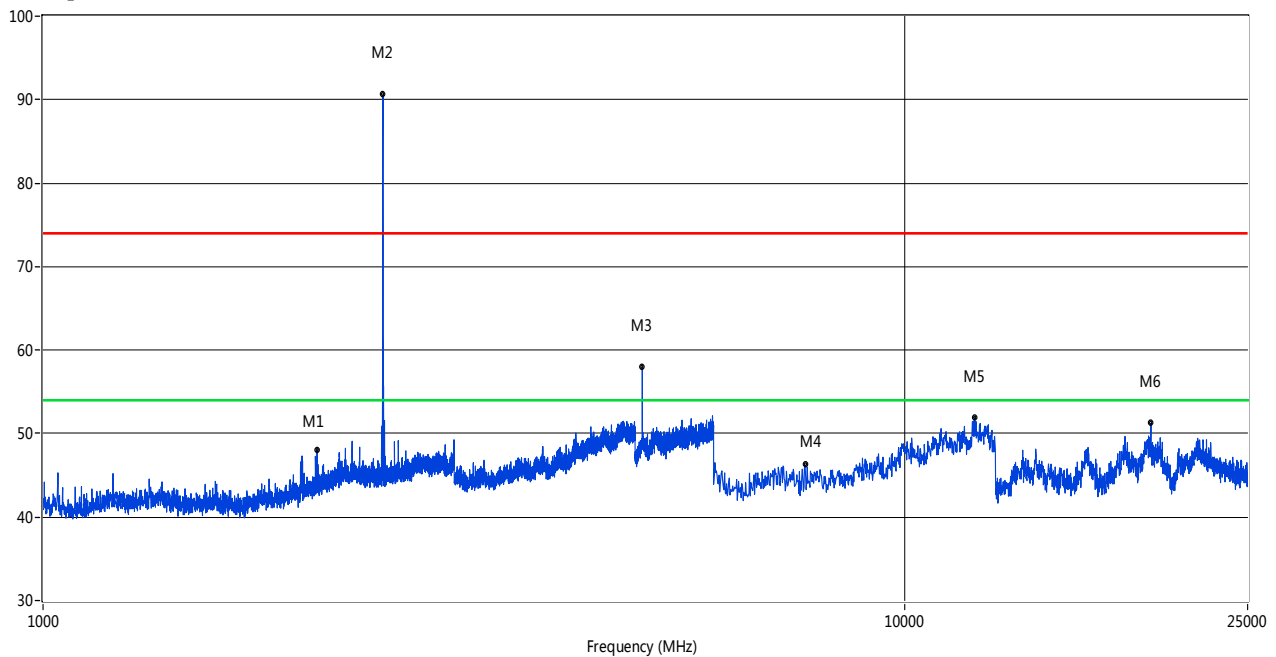
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1833.17	45.77	-3.35	74.0	28.23	Peak	88.10	100	Horizontal	Pass
2	2440.56	88.40	-0.41	74.0	-14.40	Peak	81.20	100	Horizontal	N/A
3	4882.12	63.76	13.60	74.0	10.24	Peak	82.40	100	Horizontal	Pass
3**	4882.12	49.85	13.60	54.0	4.15	AV	82.40	100	Horizontal	Pass
4	9021.22	47.61	17.12	74.0	26.39	Peak	317.80	100	Horizontal	Pass
5	12053.66	52.14	20.82	74.0	21.86	Peak	269.70	100	Horizontal	Pass
6	19359.40	49.70	13.15	74.0	24.30	Peak	111.10	100	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V

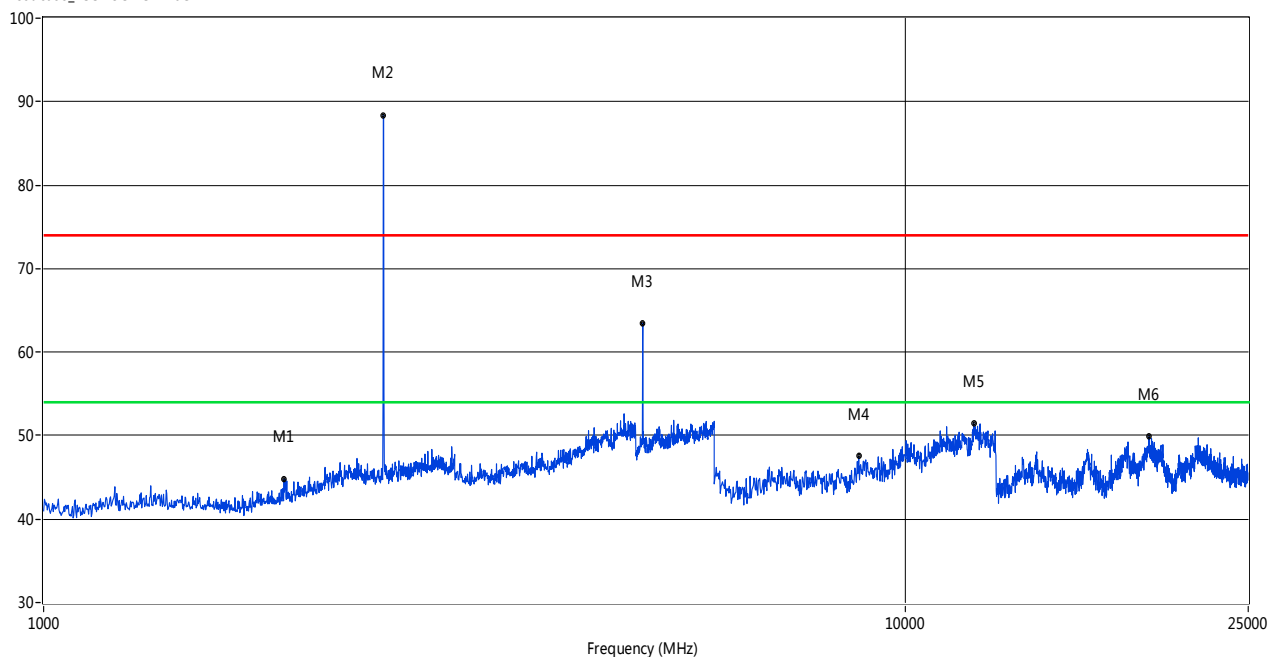
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2079.73	48.10	-1.72	74.0	25.90	Peak	284.20	100	Vertical	Pass
2	2480.13	90.60	-0.60	74.0	-16.60	Peak	332.10	100	Vertical	N/A
3	4959.26	57.98	14.19	74.0	16.02	Peak	292.30	100	Vertical	Pass
3**	4959.26	44.07	14.19	54.0	9.93	AV	292.30	100	Vertical	Pass
4	7662.23	46.26	14.43	74.0	27.74	Peak	258.90	100	Vertical	Pass
5	12053.66	51.95	20.82	74.0	22.05	Peak	269.70	100	Vertical	Pass
6	19309.48	51.24	13.46	74.0	22.76	Peak	57.40	100	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H

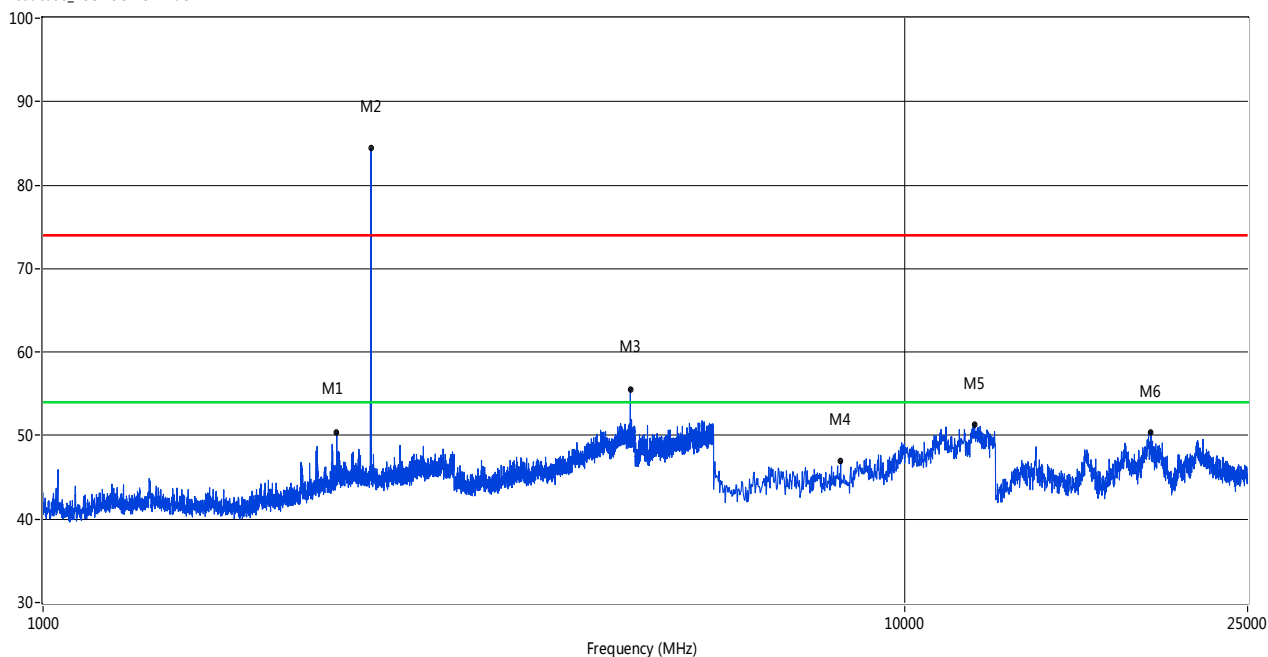
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1901.10	44.82	-2.80	74.0	29.18	Peak	260.20	100	Horizontal	Pass
2	2478.52	88.38	-0.63	74.0	-14.38	Peak	74.10	100	Horizontal	N/A
3	4960.04	63.43	14.22	74.0	10.57	Peak	84.50	100	Horizontal	Pass
3**	4960.04	49.52	14.22	54.0	4.48	AV	84.50	100	Horizontal	Pass
4	8830.28	47.53	16.55	74.0	26.47	Peak	76.10	100	Horizontal	Pass
5	12008.74	51.47	20.87	74.0	22.53	Peak	312.20	100	Horizontal	Pass
6	19189.68	49.91	14.08	74.0	24.09	Peak	360.20	100	Horizontal	Pass

Π/4-DQPSK LOW CHANNEL 1 GHz to 25 GHz, ANT V

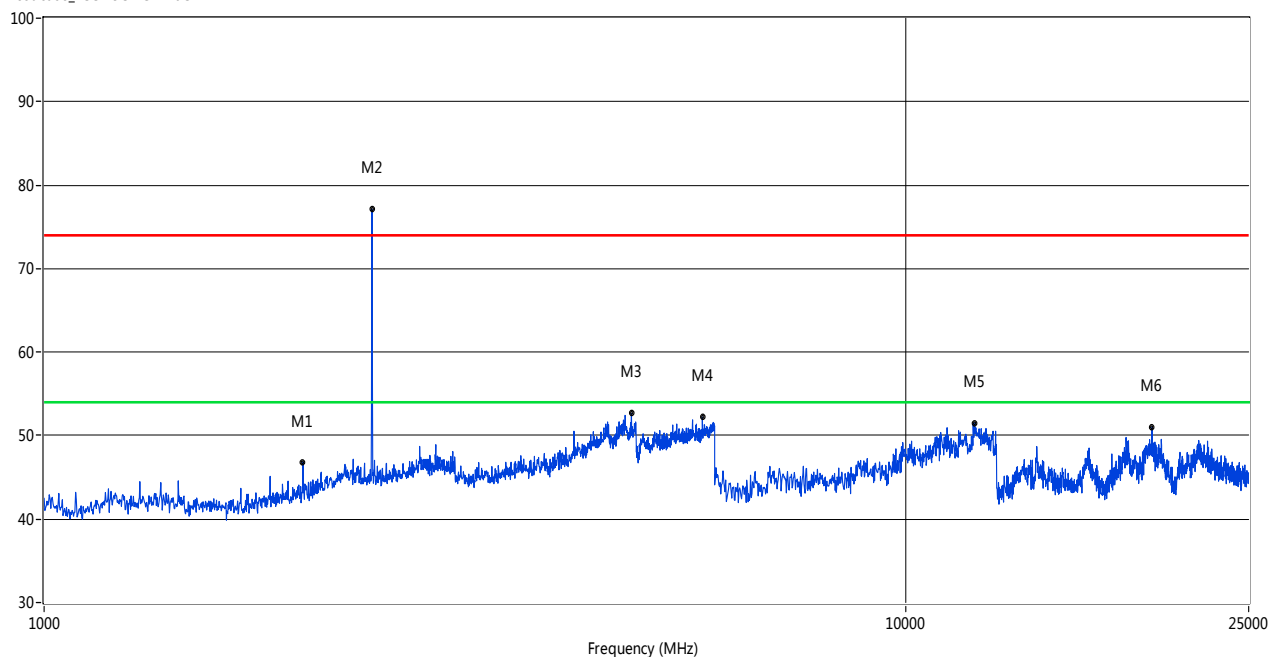
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2191.70	50.45	-0.70	74.0	23.55	Peak	173.70	100	Vertical	Pass
2	2402.15	84.47	-0.34	74.0	-10.47	Peak	333.20	100	Vertical	N/A
3	4803.30	55.48	13.74	74.0	18.52	Peak	301.00	100	Vertical	Pass
3**	4803.3	41.57	13.74	54.0	12.43	AV	301.00	100	Vertical	Pass
4	8425.96	46.92	15.06	74.0	27.08	Peak	70.90	100	Vertical	Pass
5	12053.66	51.35	20.82	74.0	22.65	Peak	269.70	100	Vertical	Pass
6	19309.48	50.42	13.46	74.0	23.58	Peak	57.40	100	Vertical	Pass

Π/4-DQPSK LOW CHANNEL 1 GHz to 25 GHz, ANT H

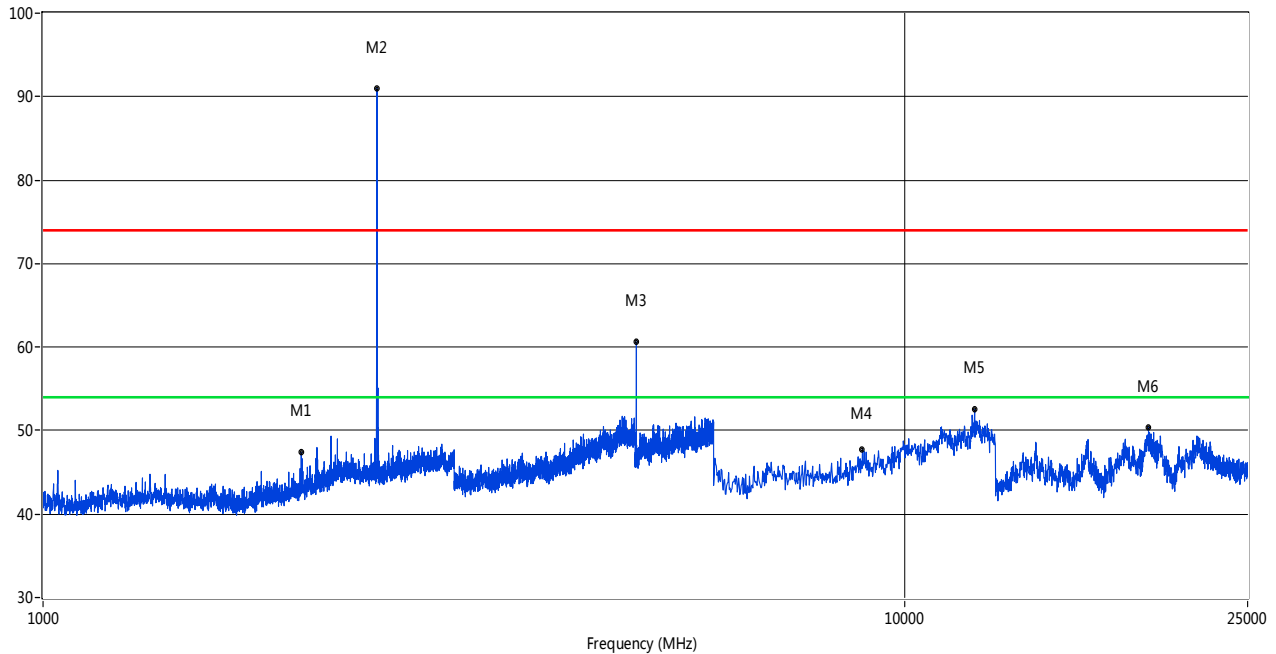
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1997.00	46.82	-2.54	74.0	27.18	Peak	71.50	100	Horizontal	Pass
2	2400.60	77.12	-0.31	74.0	-3.12	Peak	185.00	100	Horizontal	N/A
3	4804.20	52.69	13.75	74.0	21.31	Peak	89.10	100	Horizontal	Pass
4	5808.19	52.24	15.49	74.0	21.76	Peak	84.60	100	Horizontal	Pass
5	12019.97	51.47	20.86	74.0	22.53	Peak	247.80	100	Horizontal	Pass
6	19309.48	50.99	13.46	74.0	23.01	Peak	57.40	100	Horizontal	Pass

Π/4-DQPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V

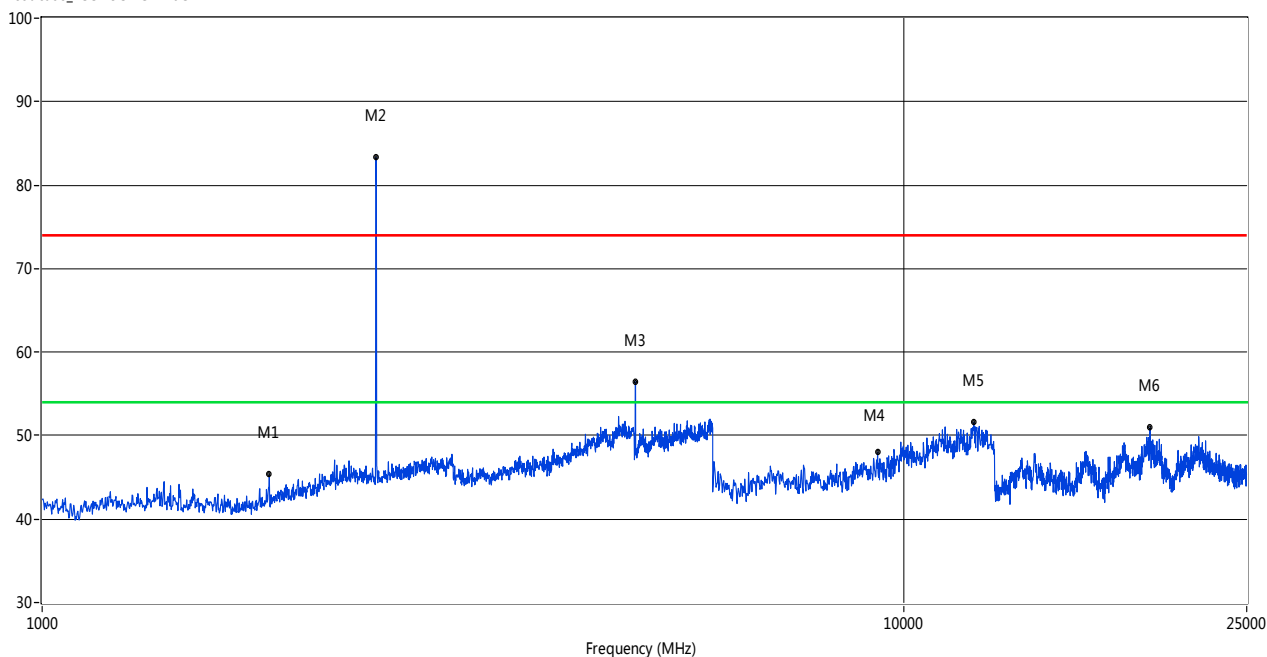
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1993.75	47.38	-2.50	74.0	26.62	Peak	284.40	100	Vertical	Pass
2	2440.64	91.01	-0.41	74.0	-17.01	Peak	332.40	100	Vertical	N/A
3	4881.28	60.58	13.62	74.0	13.42	Peak	305.20	100	Vertical	Pass
3**	4881.28	46.67	13.62	54.0	7.33	AV	305.20	100	Vertical	Pass
4	8931.36	47.77	16.87	74.0	26.23	Peak	359.60	100	Vertical	Pass
5	12053.66	52.55	20.82	74.0	21.45	Peak	269.70	100	Vertical	Pass
6	19189.68	50.36	14.08	74.0	23.64	Peak	360.20	100	Vertical	Pass

Π/4-DQPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H

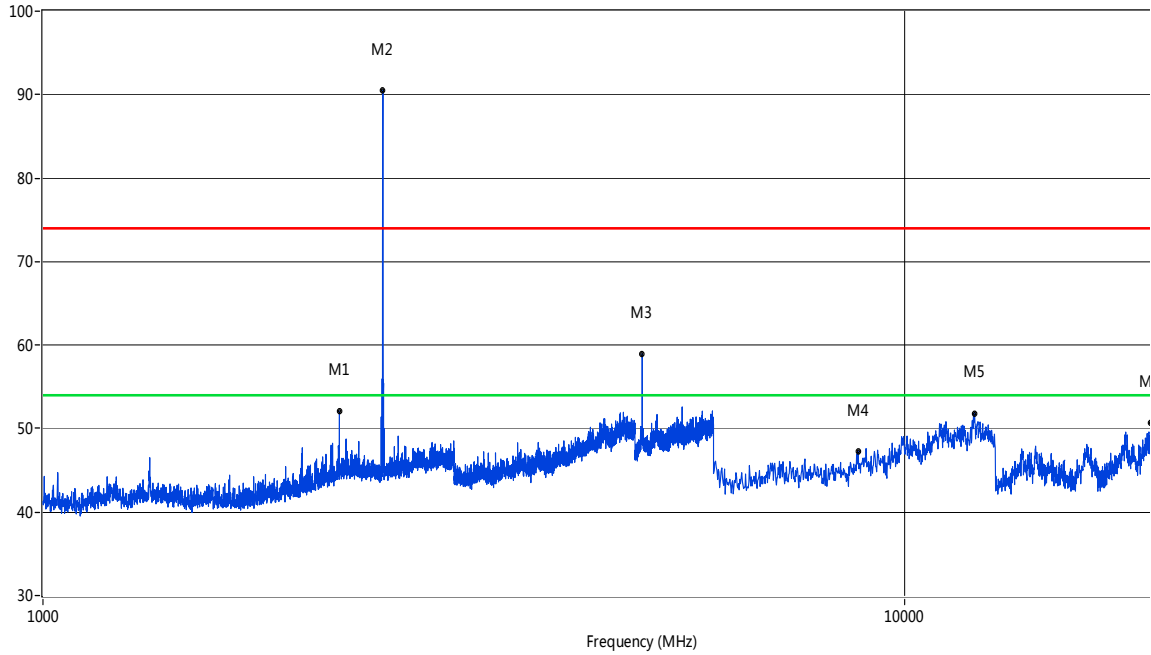
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1835.16	45.33	-3.35	74.0	28.67	Peak	44.70	100	Horizontal	Pass
2	2440.56	83.33	-0.41	74.0	-9.33	Peak	80.60	100	Horizontal	N/A
3	4879.12	56.40	13.64	74.0	17.60	Peak	83.80	100	Horizontal	Pass
3**	4879.12	42.49	13.64	54.0	11.51	AV	83.80	100	Horizontal	Pass
4	9324.46	48.01	16.94	74.0	25.99	Peak	12.00	100	Horizontal	Pass
5	12053.66	51.56	20.82	74.0	22.44	Peak	269.70	100	Horizontal	Pass
6	19309.48	50.96	13.46	74.0	23.04	Peak	57.40	100	Horizontal	Pass

Π/4-DQPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V

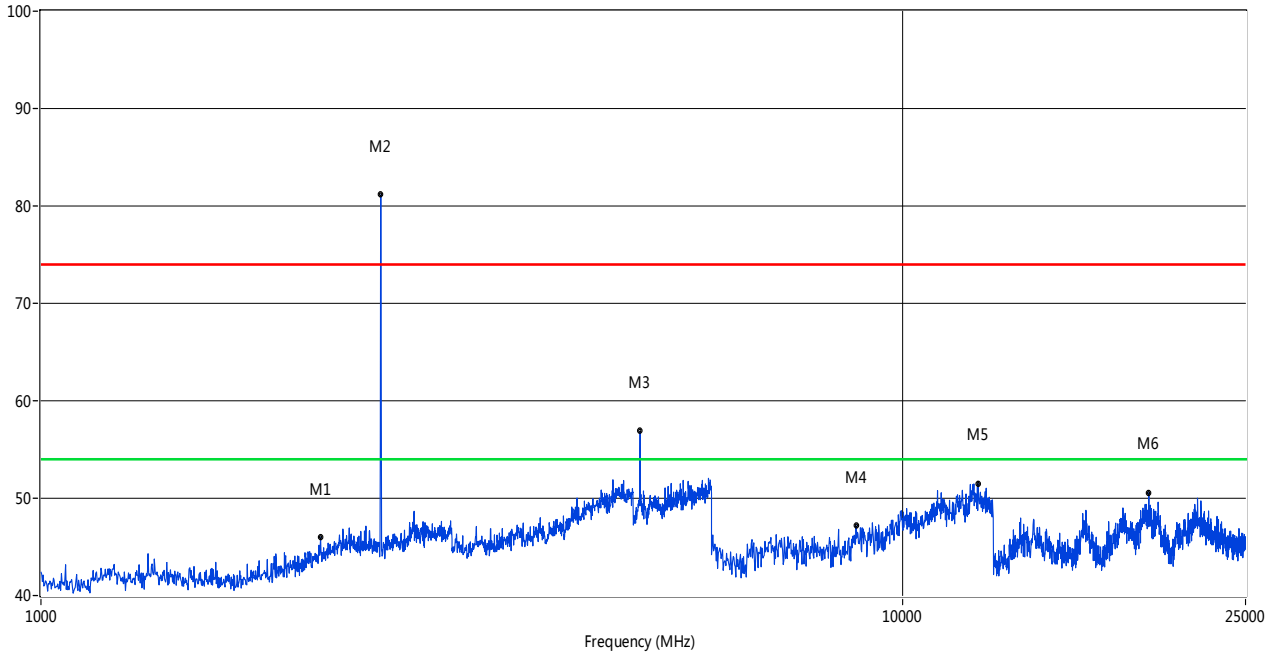
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT
1	2207.70	52.04	-0.31	74.0	21.96	Peak	173.10	100	Vertical
2	2479.63	90.46	-0.63	74.0	-16.46	Peak	332.00	100	Vertical
3	4959.26	58.96	14.19	74.0	15.04	Peak	231.20	100	Vertical
3**	4959.26	45.05	14.19	54.0	8.95	AV	231.20	100	Vertical
4	8830.28	47.34	16.55	74.0	26.66	Peak	76.10	100	Vertical
5	12053.66	51.85	20.82	74.0	22.15	Peak	269.70	100	Vertical
6	19309.48	50.68	13.46	74.0	23.32	Peak	57.40	100	Vertical

Π/4-DQPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H

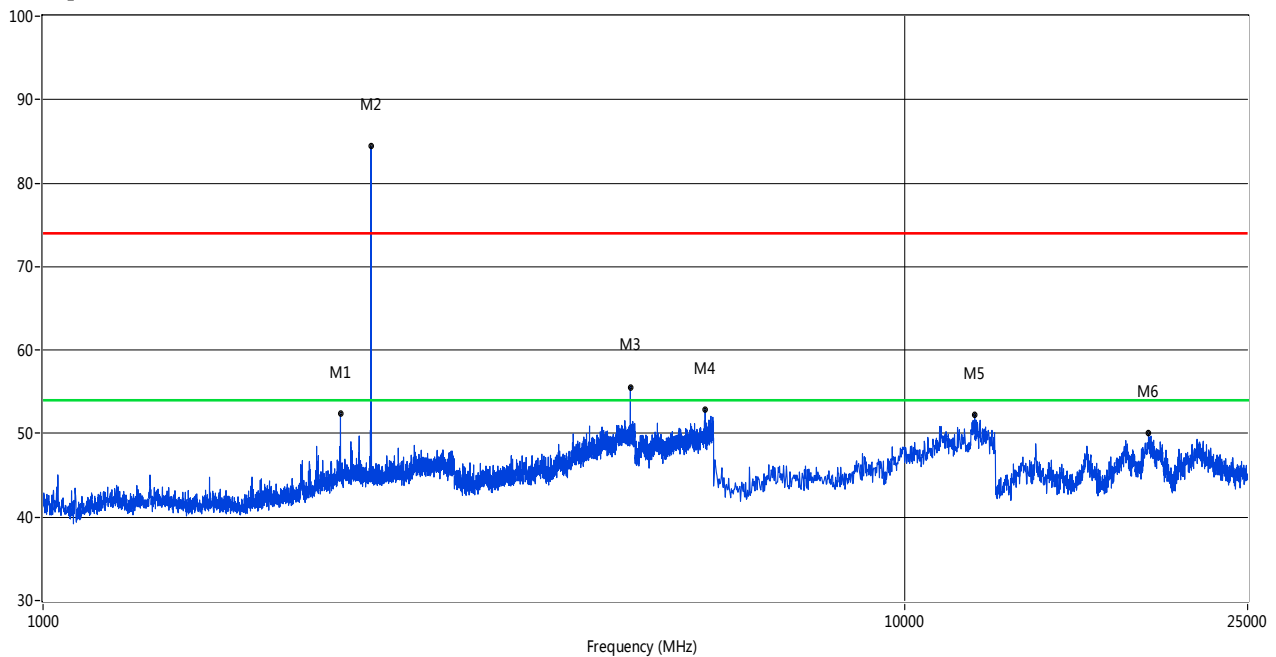
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2110.89	45.97	-1.35	74.0	28.03	Peak	162.30	100	Horizontal	Pass
2	2478.52	81.15	-0.63	74.0	-7.15	Peak	80.40	100	Horizontal	N/A
3	4960.04	56.89	14.22	74.0	17.11	Peak	79.40	100	Horizontal	Pass
3**	4960.04	42.98	14.22	54.0	11.02	AV	79.40	100	Horizontal	Pass
4	8830.28	47.19	16.55	74.0	26.81	Peak	76.10	100	Horizontal	Pass
5	12233.36	51.52	20.65	74.0	22.48	Peak	0.30	100	Horizontal	Pass
6	19309.48	50.57	13.46	74.0	23.43	Peak	57.40	100	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 25 GHz, ANT V

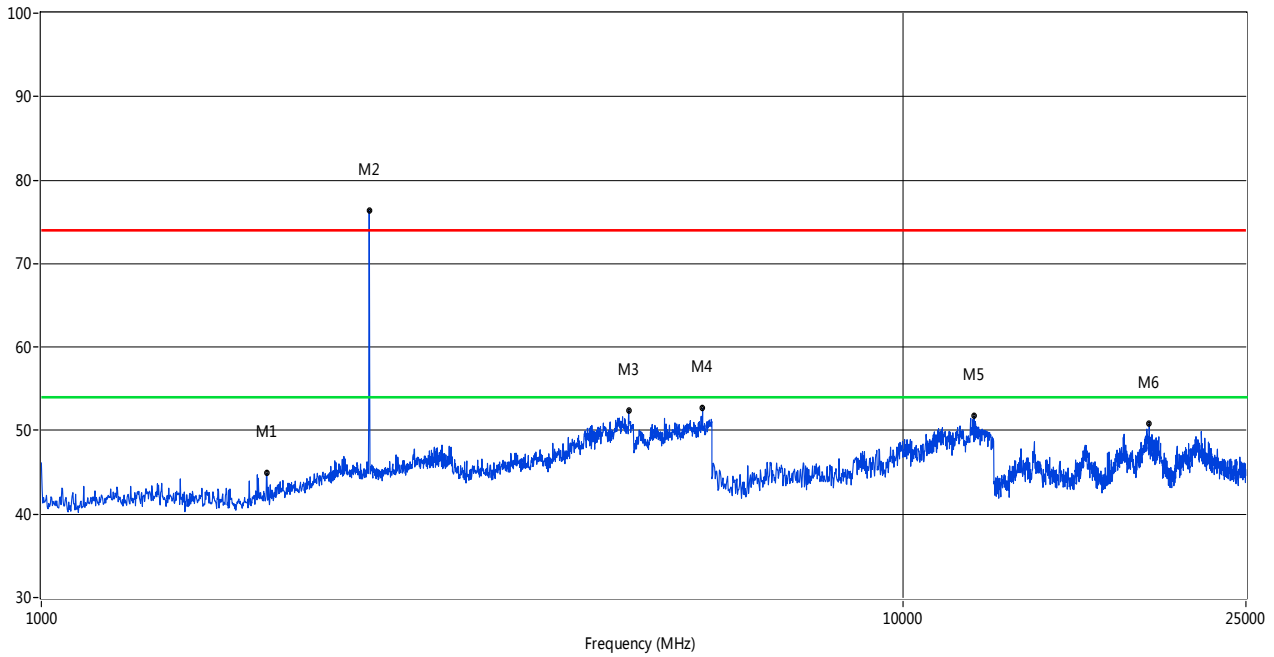
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2213.70	52.37	-0.22	74.0	21.63	Peak	173.10	100	Vertical	Pass
2	2402.15	84.42	-0.34	74.0	-10.42	Peak	308.50	100	Vertical	N/A
3	4804.05	55.58	13.74	74.0	18.42	Peak	311.50	100	Vertical	Pass
3**	4804.05	41.67	13.74	54.0	12.33	AV	311.50	100	Vertical	Pass
4	5868.03	52.88	15.46	74.0	21.12	Peak	248.00	100	Vertical	Pass
5	12053.66	52.27	20.82	74.0	21.73	Peak	269.70	100	Vertical	Pass
6	19189.68	49.99	14.08	74.0	24.01	Peak	360.20	100	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 25 GHz, ANT H

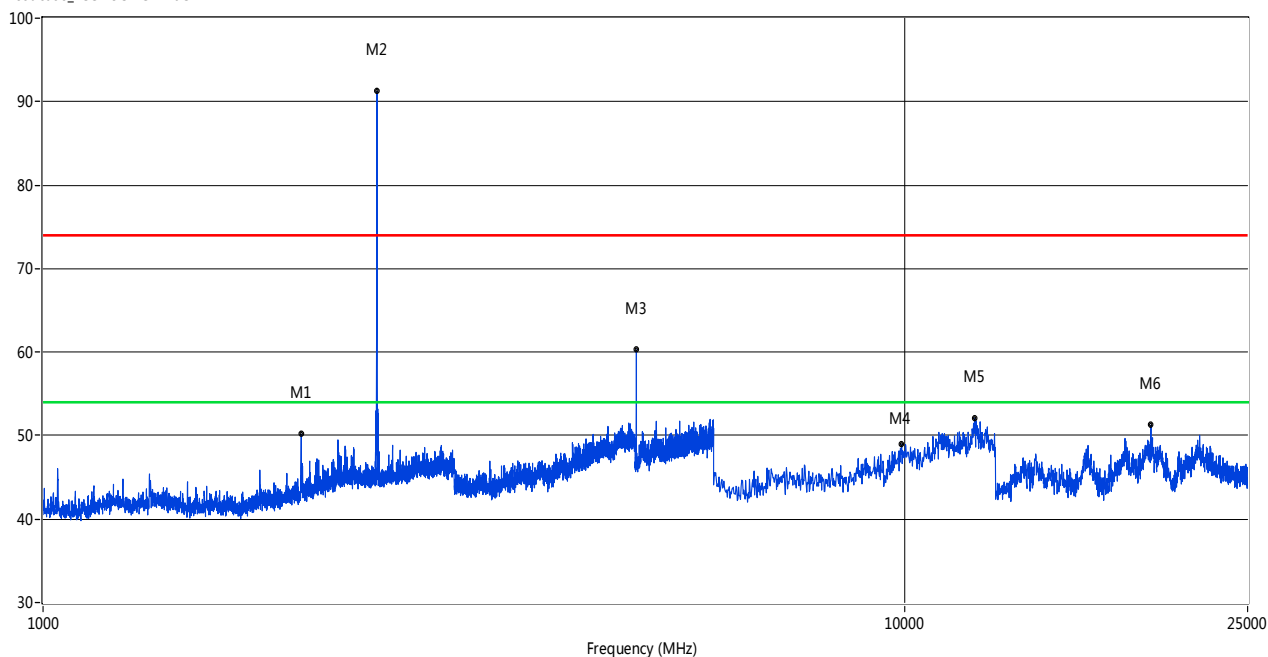
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1827.17	44.88	-3.46	74.0	29.12	Peak	101.90	100	Horizontal	Pass
2	2400.60	76.37	-0.31	74.0	-2.37	Peak	184.60	100	Horizontal	N/A
3	4804.20	52.47	13.75	74.0	21.53	Peak	360.70	100	Horizontal	Pass
4	5853.15	52.68	15.64	74.0	21.32	Peak	359.10	100	Horizontal	Pass
5	12098.59	51.76	20.77	74.0	22.24	Peak	307.00	100	Horizontal	Pass
6	19309.48	50.86	13.46	74.0	23.14	Peak	57.40	100	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V

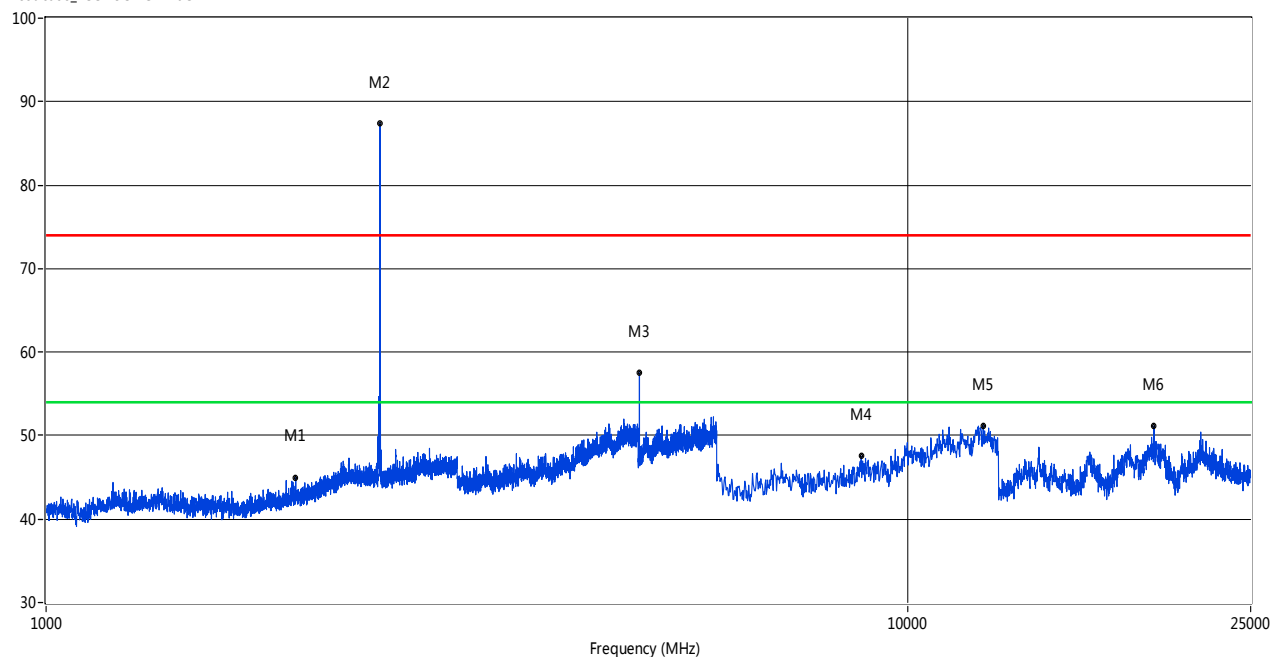
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1993.25	50.15	-2.54	74.0	23.85	Peak	283.90	100	Vertical	Pass
2	2441.14	91.27	-0.38	74.0	-17.27	Peak	331.50	100	Vertical	N/A
3	4882.03	60.27	13.60	74.0	13.73	Peak	306.60	100	Vertical	Pass
3**	4882.03	46.36	13.60	54.0	7.64	AV	306.60	100	Vertical	Pass
4	9919.72	48.94	19.09	74.0	25.06	Peak	92.10	100	Vertical	Pass
5	12053.66	52.10	20.82	74.0	21.90	Peak	269.70	100	Vertical	Pass
6	19309.48	51.27	13.46	74.0	22.73	Peak	57.40	100	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H

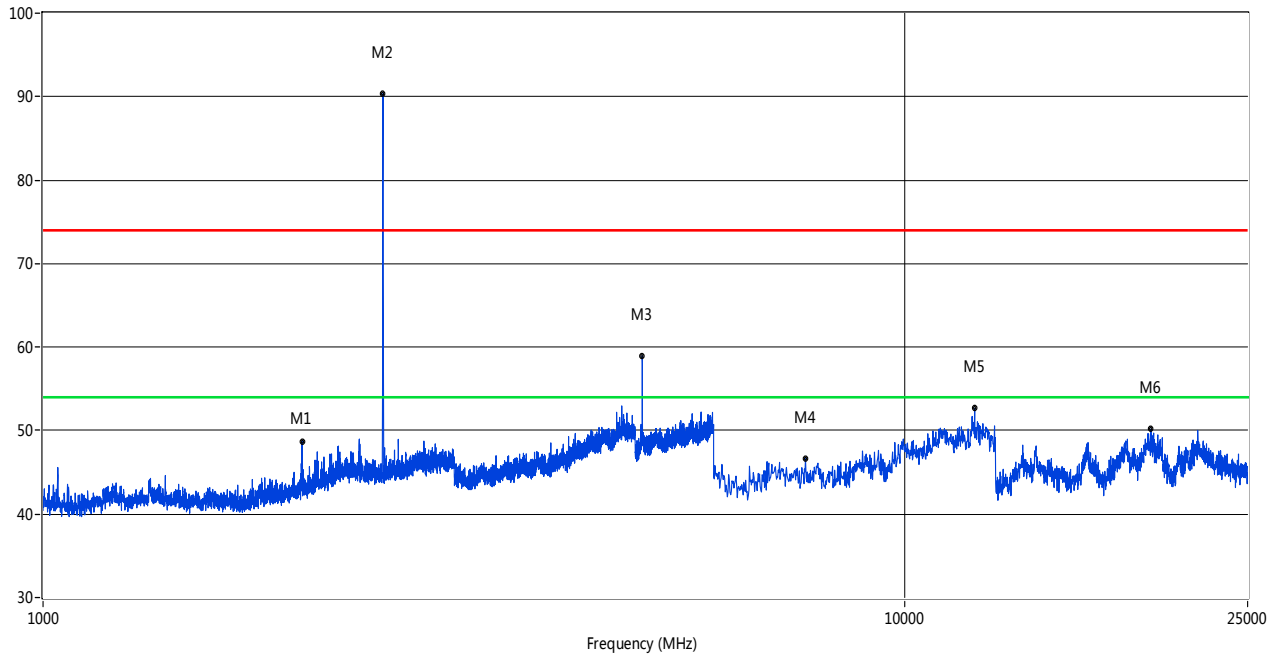
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1948.26	44.98	-2.41	74.0	29.02	Peak	162.90	100	Horizontal	Pass
2	2440.64	87.43	-0.41	74.0	-13.43	Peak	35.50	100	Horizontal	N/A
3	4882.03	57.54	13.60	74.0	16.46	Peak	43.90	100	Horizontal	Pass
3**	4882.03	43.63	13.60	54.0	10.37	AV	43.90	100	Horizontal	Pass
4	8830.28	47.55	16.55	74.0	26.45	Peak	76.10	100	Horizontal	Pass
5	12233.36	51.20	20.65	74.0	22.80	Peak	0.30	100	Horizontal	Pass
6	19309.48	51.18	13.46	74.0	22.82	Peak	57.40	100	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V

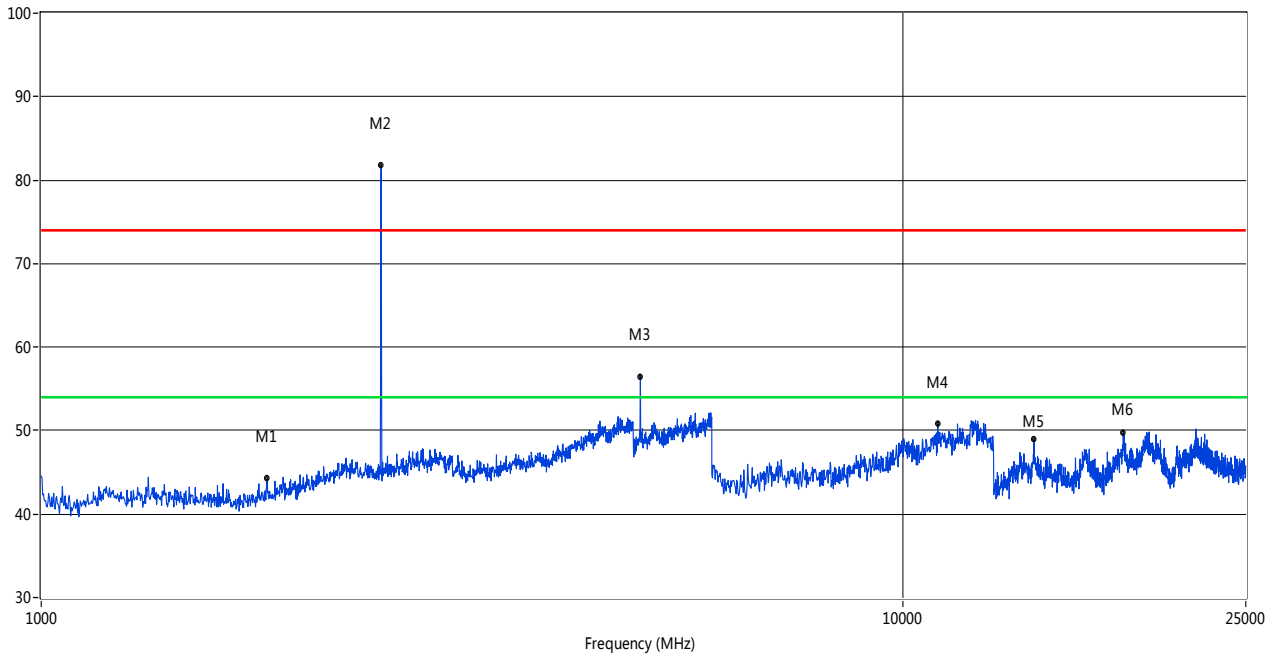
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2000.25	48.74	-2.44	74.0	25.26	Peak	277.90	100	Vertical	Pass
2	2480.13	90.39	-0.60	74.0	-16.39	Peak	333.90	100	Vertical	N/A
3	4960.01	58.97	14.22	74.0	15.03	Peak	232.40	100	Vertical	Pass
3**	4960.01	45.06	14.22	54.0	8.94	AV	232.40	100	Vertical	Pass
4	7673.46	46.65	14.45	74.0	27.35	Peak	237.10	100	Vertical	Pass
5	12053.66	52.67	20.82	74.0	21.33	Peak	269.70	100	Vertical	Pass
6	19309.48	50.20	13.46	74.0	23.80	Peak	57.40	100	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz

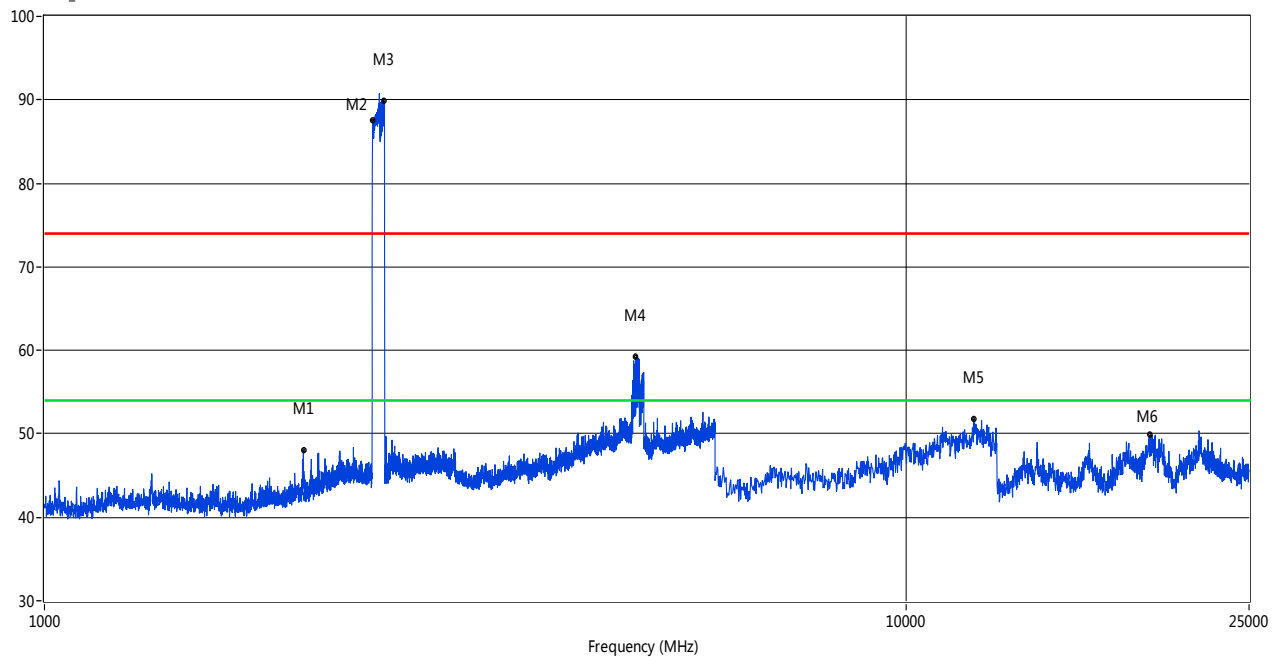


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1829.17	44.24	-3.37	74.0	29.76	Peak	45.90	100	Horizontal	Pass
2	2480.52	81.85	-0.60	74.0	-7.85	Peak	71.90	100	Horizontal	N/A
3	4960.04	56.52	14.22	74.0	17.48	Peak	84.70	100	Horizontal	Pass
3**	4960.04	42.61	14.22	54.0	11.39	AV	84.70	100	Horizontal	Pass
4	10975.46	50.84	20.00	74.0	23.16	Peak	274.90	100	Horizontal	Pass
5	14195.51	48.93	9.62	74.0	25.07	Peak	359.30	100	Horizontal	Pass
6	18022.46	49.75	13.26	74.0	24.25	Peak	168.00	100	Horizontal	Pass

Hopping Mode:

GFSK MODE 1 GHz to 25 GHz, ANT V

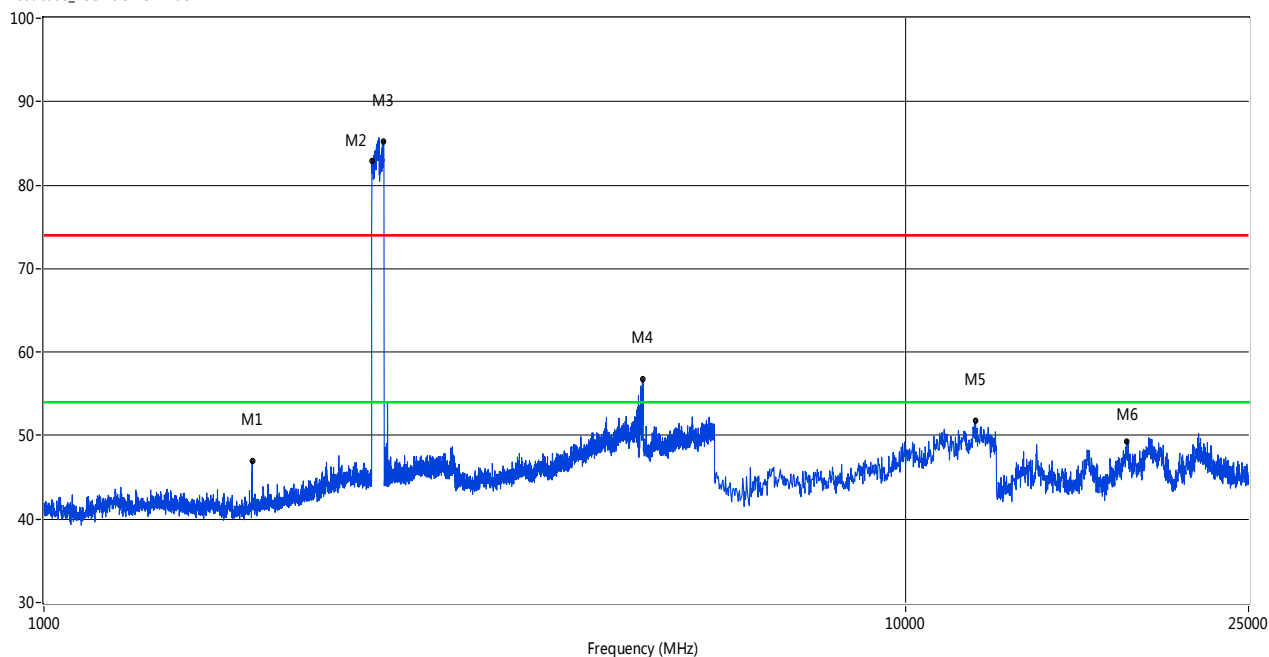
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1997.25	48.01	-2.50	74.0	25.99	Peak	283.90	100	Vertical	Pass
2	2404.15	87.59	-0.28	74.0	-13.59	Peak	331.80	100	Vertical	N/A
3	2474.13	89.96	-0.49	74.0	-15.96	Peak	331.80	100	Vertical	N/A
4	4858.03	59.20	13.54	74.0	14.80	Peak	305.90	100	Vertical	Pass
4**	4858.03	45.29	13.54	54.0	8.71	AV	305.90	100	Vertical	Pass
5	11975.04	51.73	20.76	74.0	22.27	Peak	70.90	100	Vertical	Pass
6	19189.68	49.86	14.08	74.0	24.14	Peak	360.20	100	Vertical	Pass

GFSK MODE 1 GHz to 25 GHz, ANT H

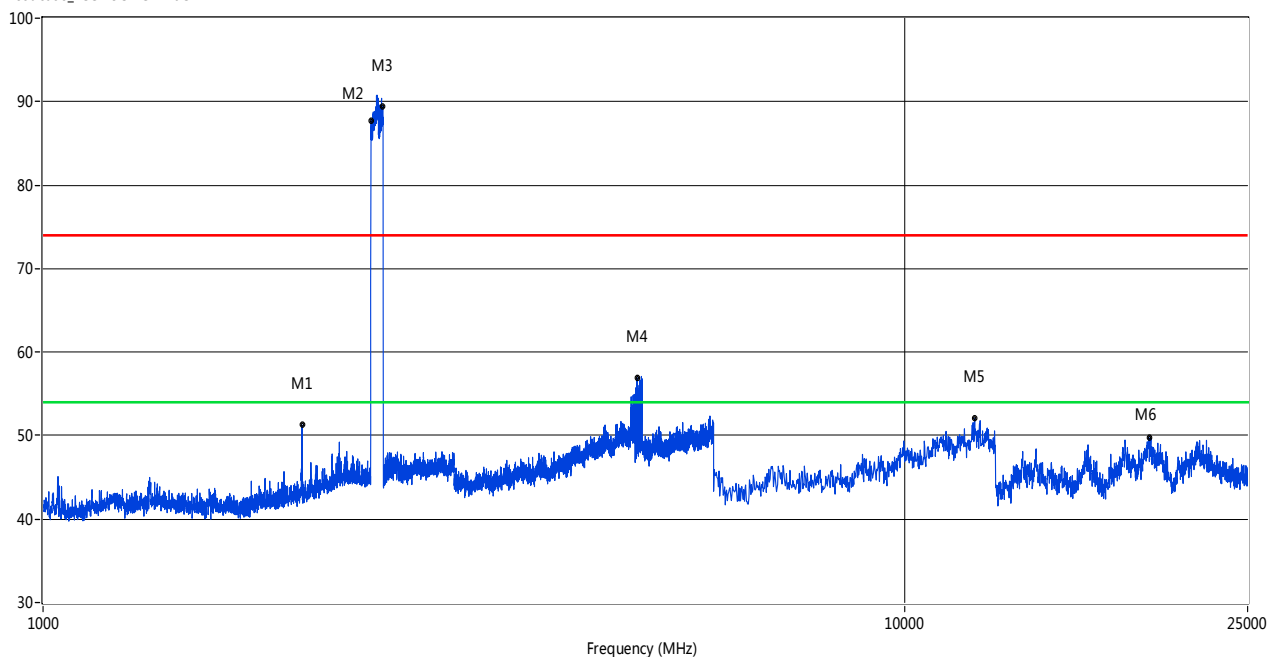
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1744.31	46.90	-3.83	74.0	27.10	Peak	119.00	100	Horizontal	Pass
2	2406.15	82.91	-0.21	74.0	-8.91	Peak	87.40	100	Horizontal	N/A
3	2478.63	85.25	-0.61	74.0	-11.25	Peak	31.40	100	Horizontal	N/A
4	4950.26	56.75	14.13	74.0	17.25	Peak	273.80	100	Horizontal	Pass
4**	4950.26	42.84	14.13	54.0	11.16	AV	273.80	100	Horizontal	Pass
5	12053.66	51.70	20.82	74.0	22.30	Peak	269.70	100	Horizontal	Pass
6	18053.66	49.37	13.16	74.0	24.63	Peak	231.90	100	Horizontal	Pass

Π/4-DQPSK MODE 1 GHz to 25 GHz, ANT V

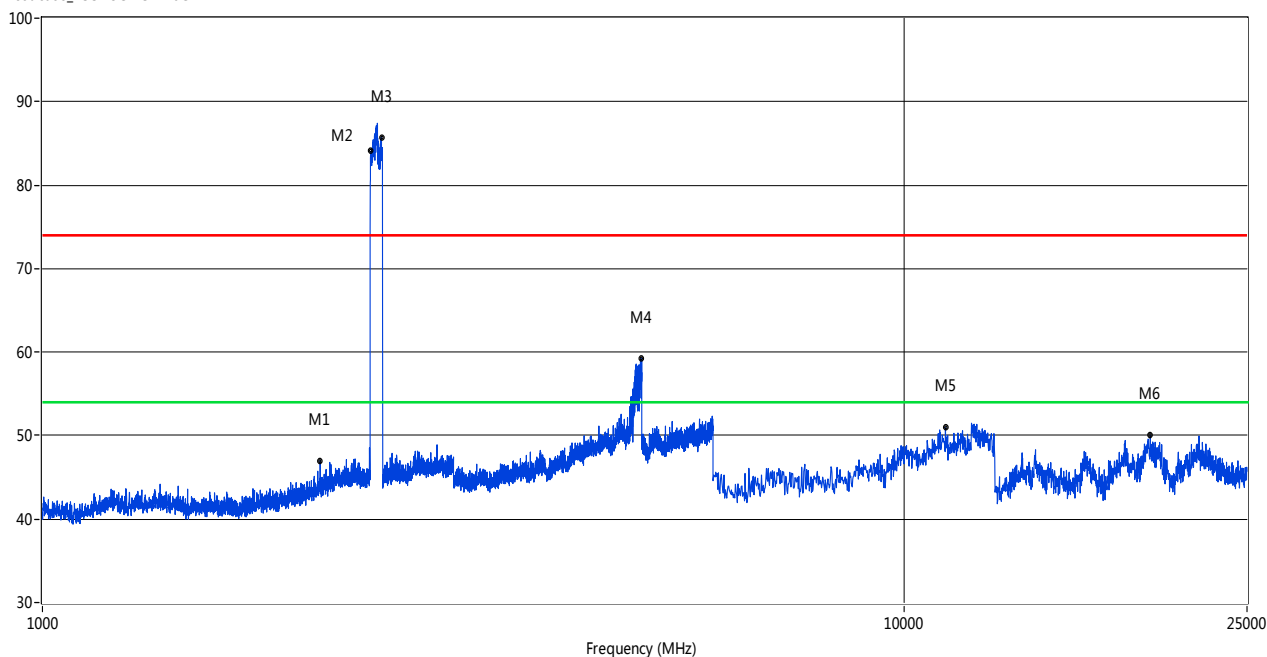
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1997.75	51.28	-2.46	74.0	22.72	Peak	282.30	100	Vertical	Pass
2	2403.15	87.71	-0.20	74.0	-13.71	Peak	298.10	100	Vertical	N/A
3	2478.63	89.40	-0.61	74.0	-15.40	Peak	330.00	100	Vertical	N/A
4	4888.78	56.91	13.58	74.0	17.09	Peak	166.30	100	Vertical	Pass
4**	4888.78	43.00	13.58	54.0	11.00	AV	166.30	100	Vertical	Pass
5	12053.66	52.07	20.82	74.0	21.93	Peak	269.70	100	Vertical	Pass
6	19219.63	49.74	14.00	74.0	24.26	Peak	359.40	100	Vertical	Pass

$\pi/4$ -DQPSK MODE 1 GHz to 25 GHz, ANT H

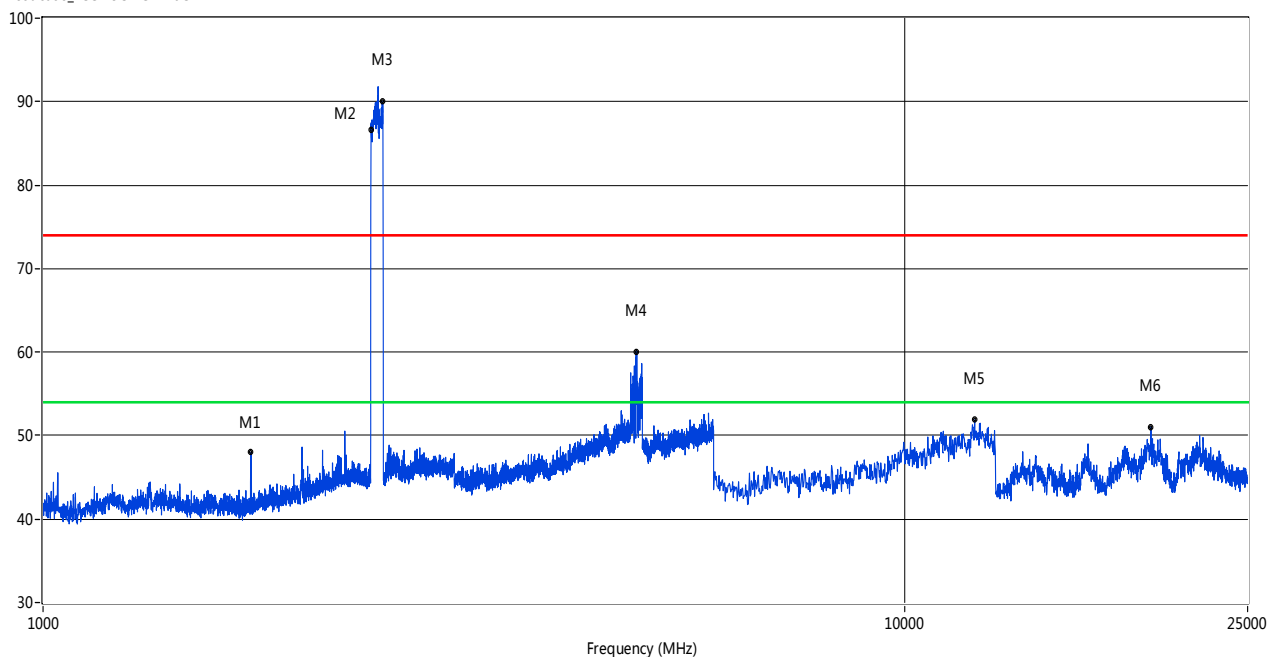
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2100.22	46.99	-1.50	74.0	27.01	Peak	360.00	100	Horizontal	Pass
2	2405.15	84.07	-0.24	74.0	-10.07	Peak	1.00	100	Horizontal	N/A
3	2473.63	85.75	-0.55	74.0	-11.75	Peak	43.70	100	Horizontal	N/A
4	4949.51	59.20	14.13	74.0	14.80	Peak	296.70	100	Horizontal	Pass
4**	4949.51	45.29	14.13	54.0	8.71	AV	296.70	100	Horizontal	Pass
5	11166.39	50.97	20.21	74.0	23.03	Peak	76.10	100	Horizontal	Pass
6	19309.48	50.02	13.46	74.0	23.98	Peak	57.40	100	Horizontal	Pass

8-DPSK MODE 1 GHz to 25 GHz, ANT V

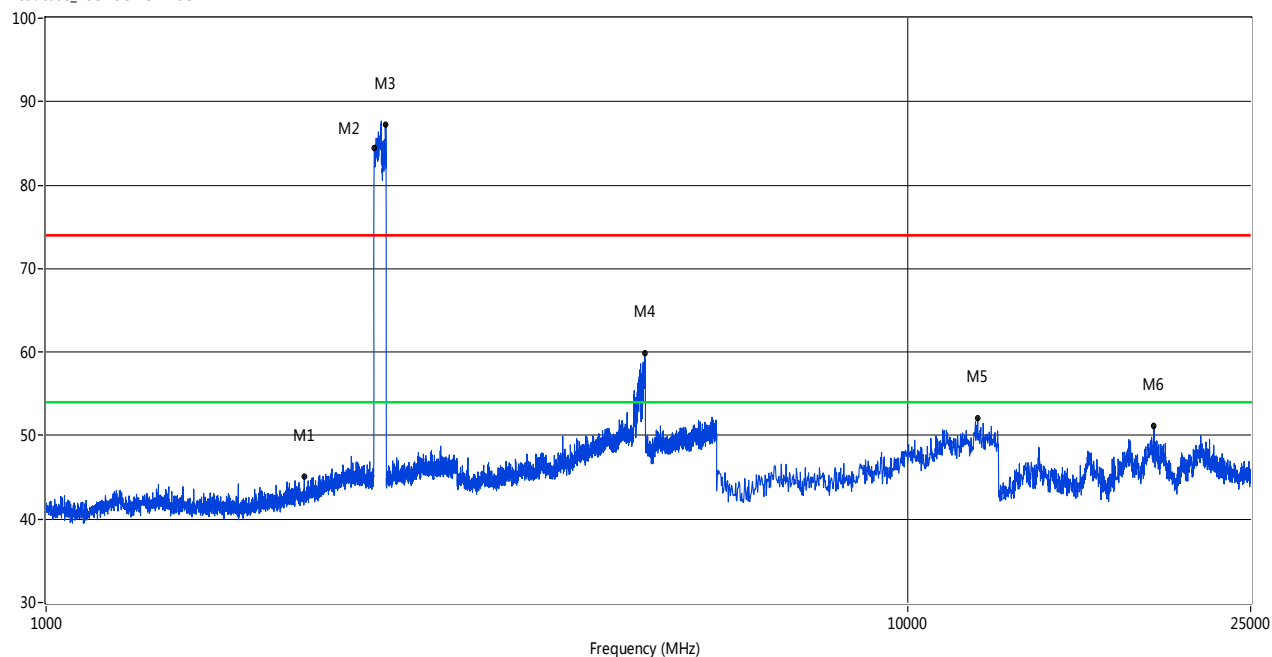
RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1743.31	48.00	-3.87	74.0	26.00	Peak	227.30	100	Vertical	Pass
2	2406.65	86.56	-0.25	74.0	-12.56	Peak	298.70	100	Vertical	N/A
3	2475.13	89.98	-0.50	74.0	-15.98	Peak	330.50	100	Vertical	N/A
4	4878.28	60.07	13.71	74.0	13.93	Peak	311.80	100	Vertical	Pass
4**	4878.28	46.16	13.71	54.0	7.84	AV	311.80	100	Vertical	Pass
5	12053.66	51.91	20.82	74.0	22.09	Peak	269.70	100	Vertical	Pass
6	19309.48	51.05	13.46	74.0	22.95	Peak	57.40	100	Vertical	Pass

8-DPSK MODE 1 GHz to 25 GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1993.75	45.10	-2.50	74.0	28.90	Peak	234.70	100	Horizontal	Pass
2	2404.15	84.40	-0.28	74.0	-10.40	Peak	1.10	100	Horizontal	N/A
3	2479.13	87.27	-0.58	74.0	-13.27	Peak	35.70	100	Horizontal	N/A
4	4951.76	59.93	14.09	74.0	14.07	Peak	300.60	100	Horizontal	Pass
4**	4951.76	46.02	14.09	54.0	7.98	AV	300.60	100	Horizontal	Pass
5	12053.66	52.09	20.82	74.0	21.91	Peak	269.70	100	Horizontal	Pass
6	19309.48	51.09	13.46	74.0	22.91	Peak	57.40	100	Horizontal	Pass

A.9 Band Edge

Test Data

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note 3: The average levels were calculated from the peak level corrected with duty cycle correction factor (21.27 dB) derived from $20\log(\text{dwell time}/100 \text{ ms})$.

For example: Average level = 57.41 dBuV/m – 13.91 (dB) = 43.50 dBuV/m.

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
GFSK	Low	2390.00	57.41	74	16.59	PEAK	Pass
		2390.00	43.50	54	10.50	AVERAGE	Pass
GFSK	HIGH	2483.50	59.07	74	14.93	PEAK	Pass
		2483.50	45.16	54	8.84	AVERAGE	Pass
Π/4DQPSK	Low	2390.00	53.46	74	20.54	PEAK	Pass
		2390.00	39.55	54	14.45	AVERAGE	Pass
Π/4DQPSK	HIGH	2483.50	59.07	74	14.93	PEAK	Pass
		2483.50	45.16	54	8.84	AVERAGE	Pass
8-DPSK	Low	2390.00	57.54	74	16.46	PEAK	Pass
		2390.00	43.63	54	10.37	AVERAGE	Pass
8-DPSK	HIGH	2483.50	63.40	74	10.60	PEAK	Pass
		2483.50	49.49	54	4.51	AVERAGE	Pass
GFSK(Hopping)	Low	2390.00	56.43	74	17.57	PEAK	Pass
		2390.00	42.52	54	11.48	AVERAGE	Pass
GFSK(Hopping)	HIGH	2483.50	57.25	74	16.75	PEAK	Pass
		2483.50	43.34	54	10.66	AVERAGE	Pass
Π/4DQPSK (Hopping)	Low	2390.00	57.05	74	16.95	PEAK	Pass
		2390.00	43.14	54	10.86	AVERAGE	Pass
Π/4DQPSK (Hopping)	HIGH	2483.50	57.02	74	16.98	PEAK	Pass
		2483.50	43.11	54	10.89	AVERAGE	Pass
8-DPSK (Hopping)	Low	2390.00	60.22	74	13.78	PEAK	Pass
		2390.00	46.31	54	7.69	AVERAGE	Pass
8-DPSK (Hopping)	HIGH	2483.50	61.53	74	12.47	PEAK	Pass
		2483.50	47.62	54	6.38	AVERAGE	Pass

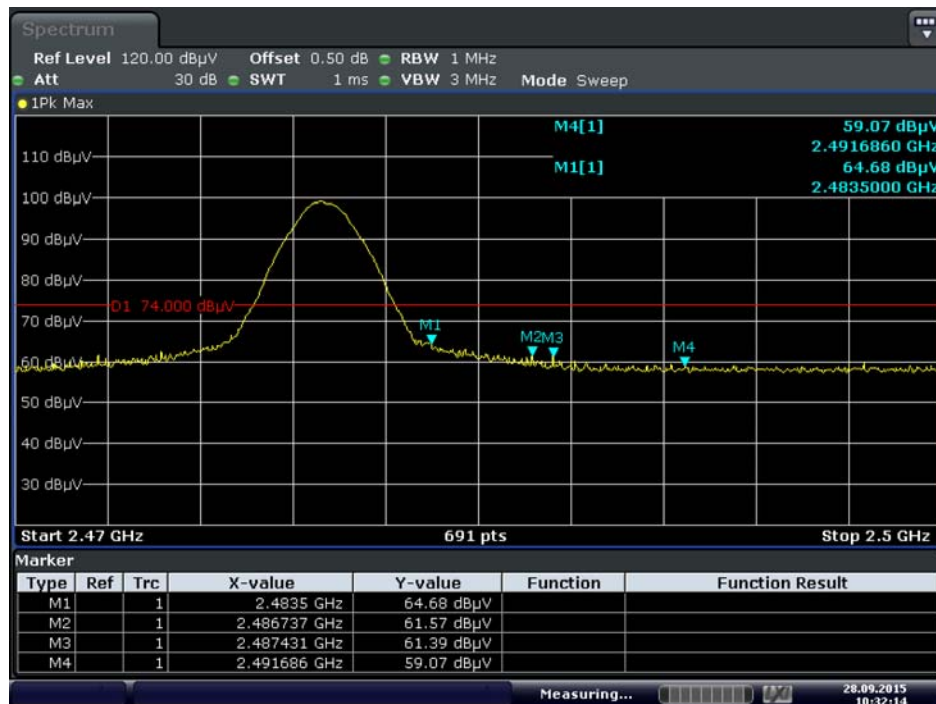
Test Plots

GFSK LOW CHANNEL , PEAK



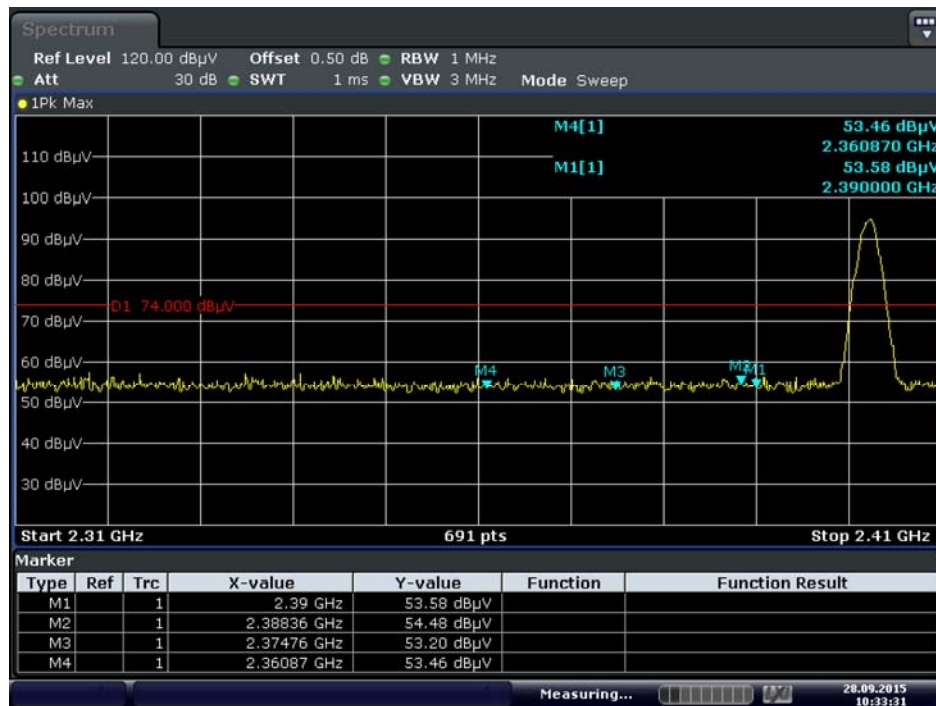
Date: 28.SEP.2015 10:18:17

GFSK HIGH CHANNEL , PEAK



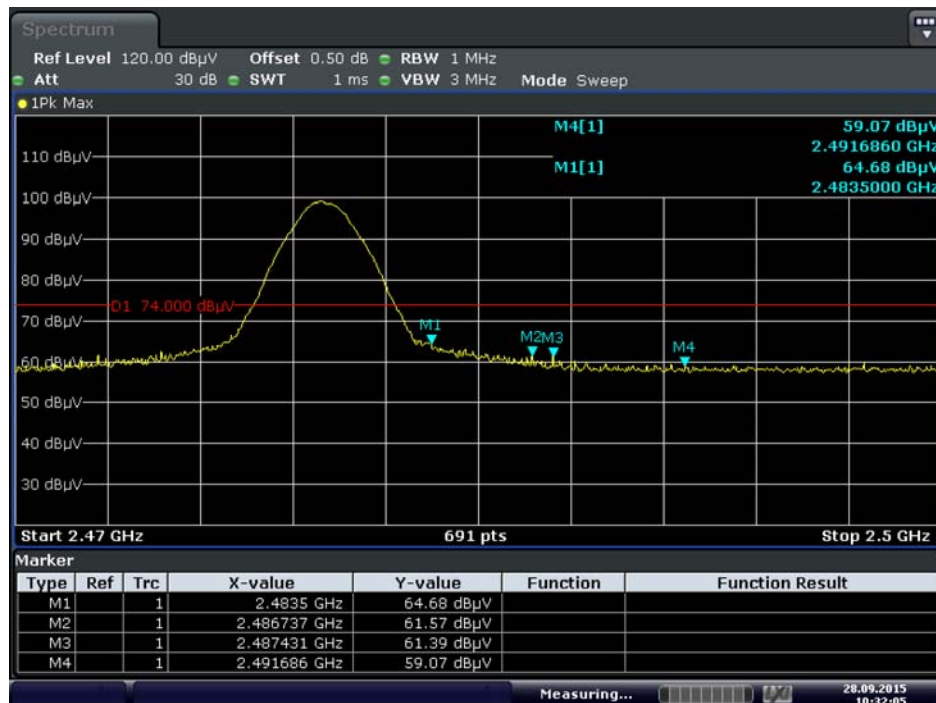
Date: 28.SEP.2015 10:32:15

$\pi/4$ -DQPSK LOW CHANNEL , PEAK



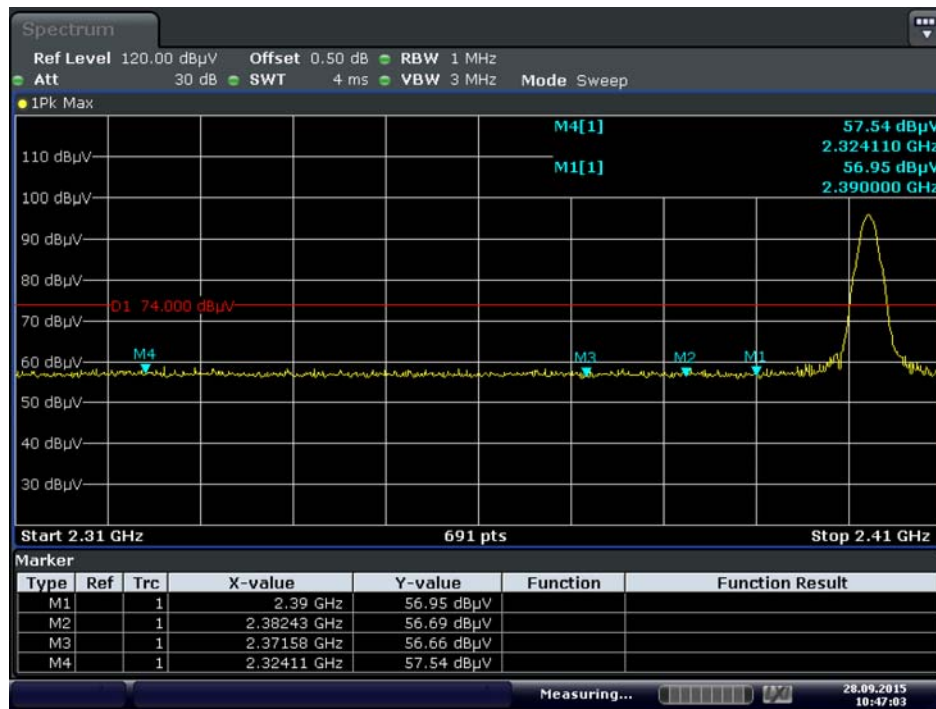
Date: 28.SEP.2015 10:33:32

$\pi/4$ -DQPSK HIGH CHANNEL , PEAK



Date: 28.SEP.2015 10:32:05

8-DPSK LOW CHANNEL , PEAK



Date: 28.SEP.2015 10:47:04

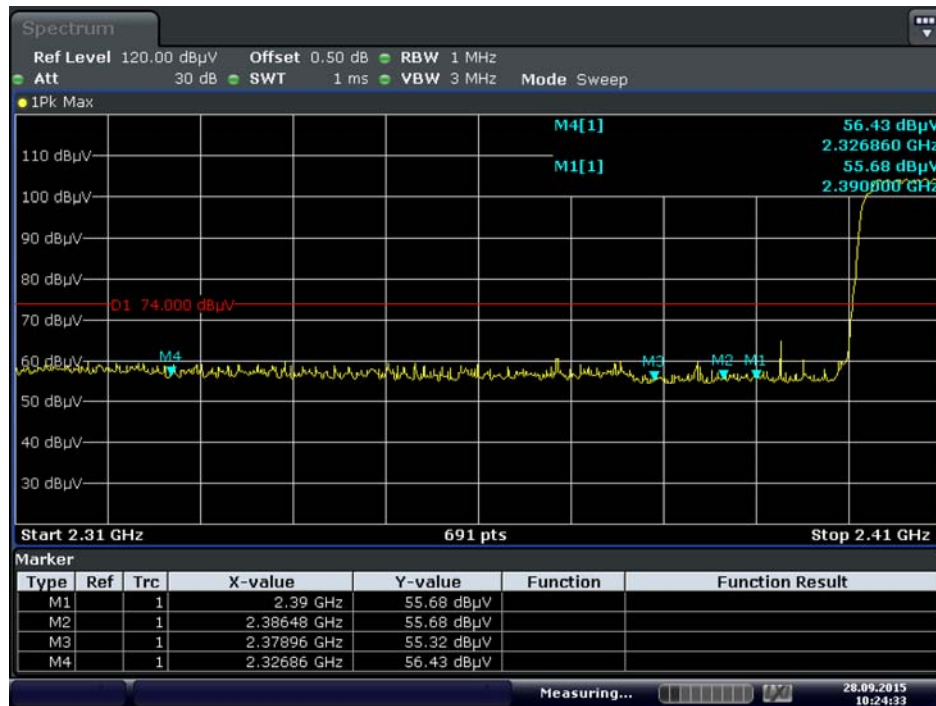
8-DPSK HIGH CHANNEL , PEAK



Date: 28.SEP.2015 10:45:27

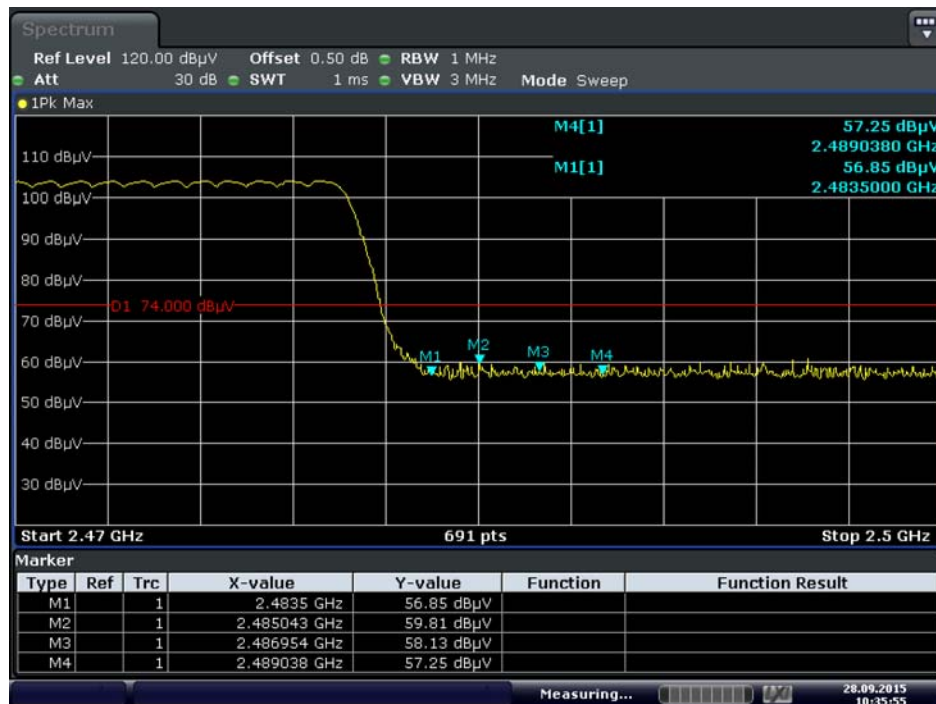
Hopping Mode:

GFSK LOW FREQUENCY BAND, PEAK



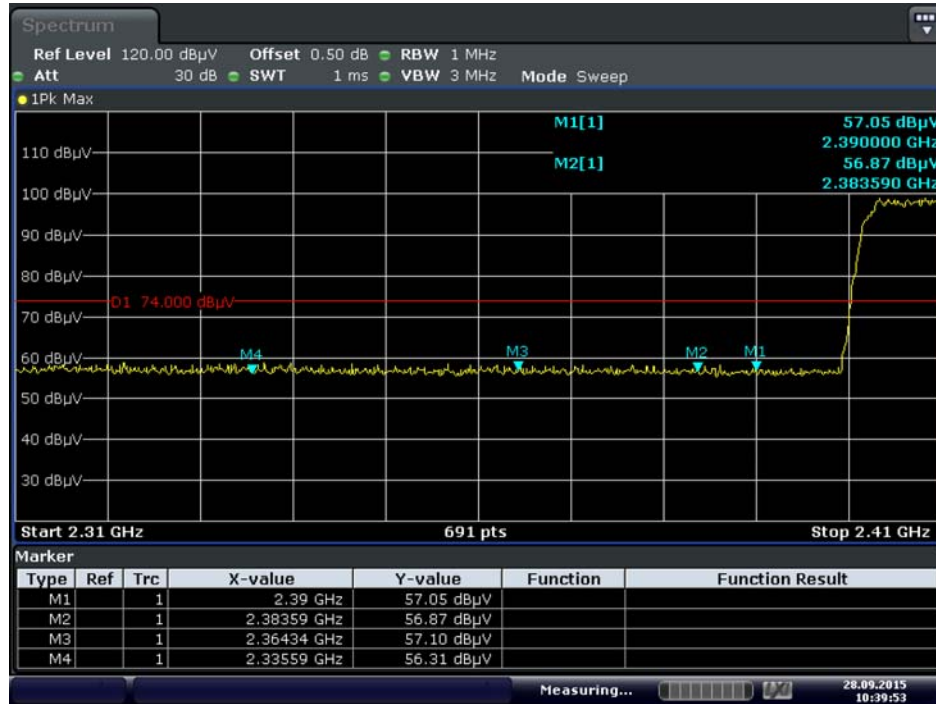
Date: 28.SEP.2015 10:24:33

GFSK HIGH FREQUENCY BAND, PEAK



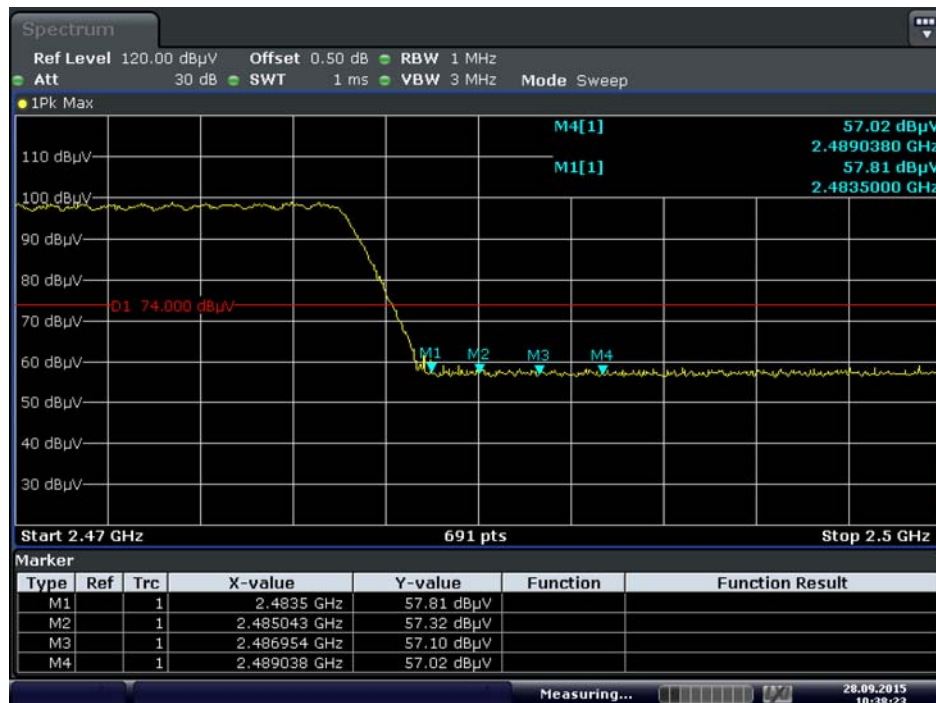
Date: 28.SEP.2015 10:35:55

$\pi/4$ -DQPSK LOW FREQUENCY BAND, PEAK



Date: 28.SEP.2015 10:39:53

$\pi/4$ -DQPSK HIGH FREQUENCY BAND, PEAK



Date: 28.SEP.2015 10:38:24

8-DPSK LOW FREQUENCY BAND, PEAK



Date: 28.SEP.2015 10:41:33

8-DPSK HIGH FREQUENCY BAND, PEAK



Date: 28.SEP.2015 10:43:48

ANNEX B TEST SETUP PHOTOS

Please refer the document “BI-SZ1590070-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ1590070-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ1590070-AI.PDF”.

--END OF REPORT--