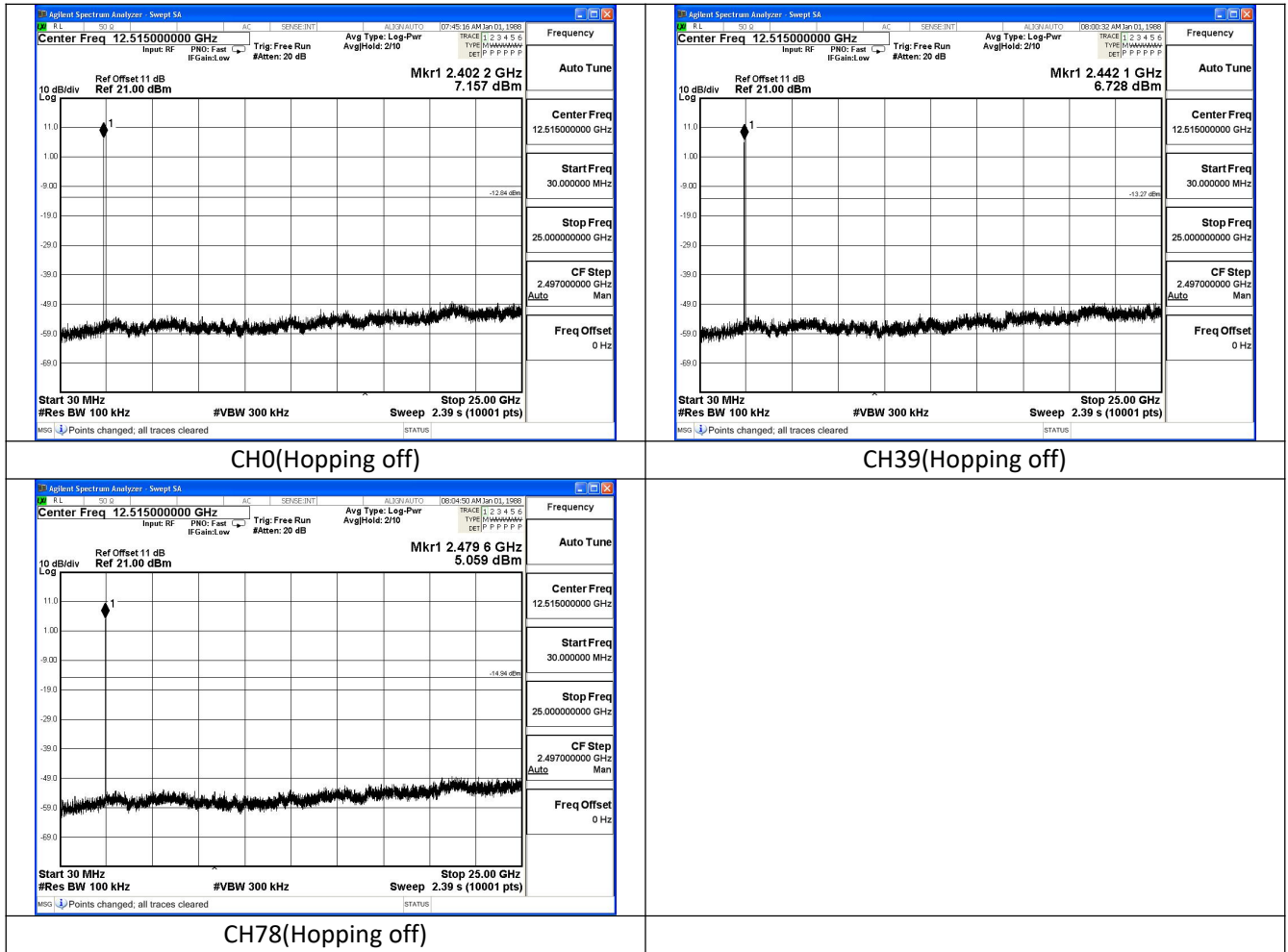
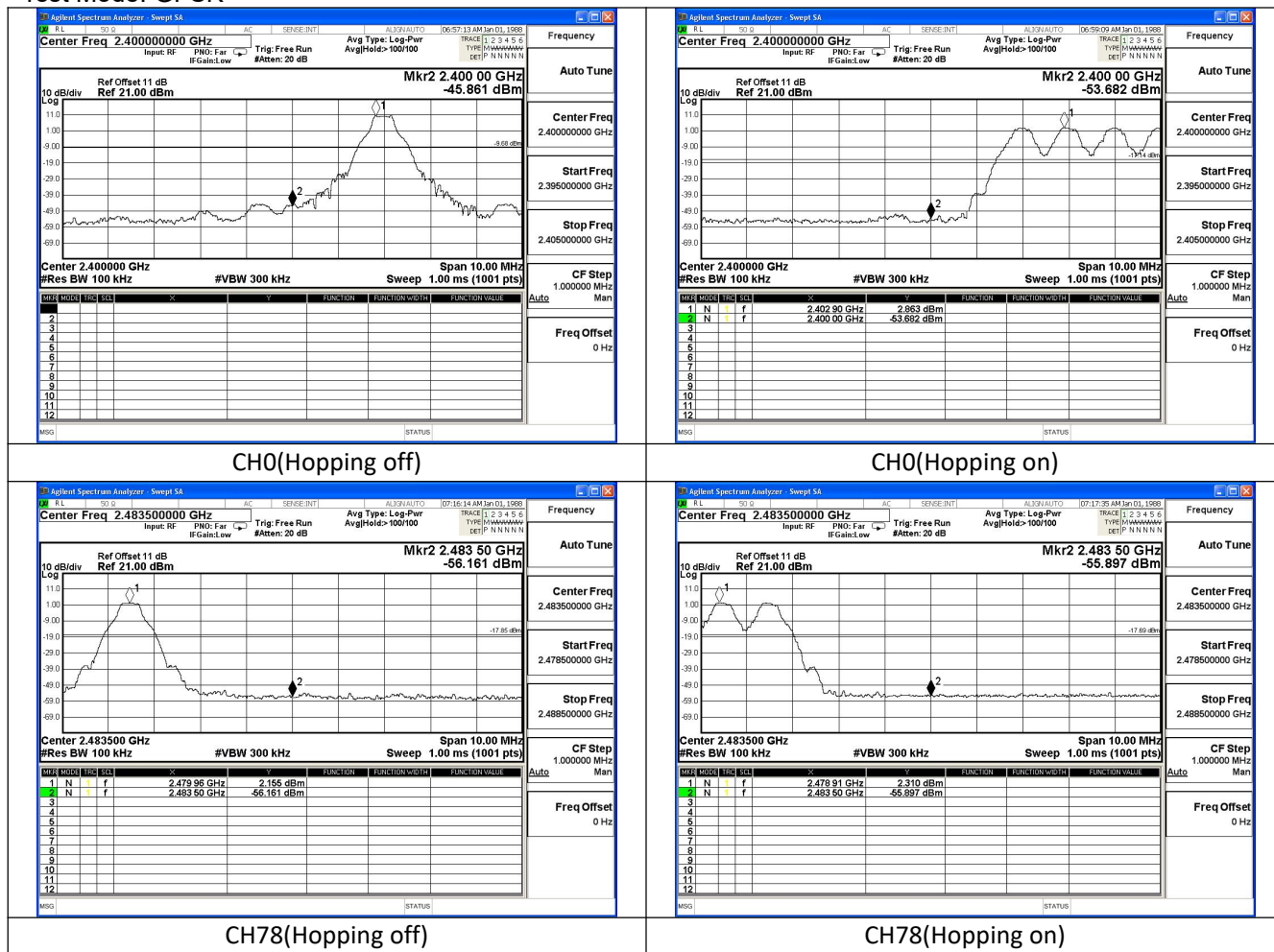


Test Mode: 8DPSK

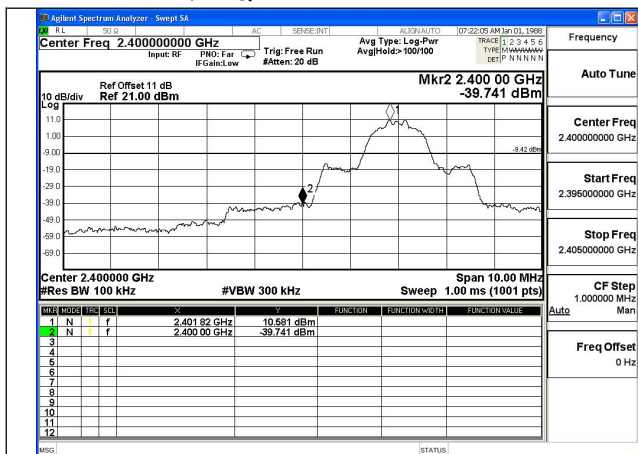


7 Band Edge measurement

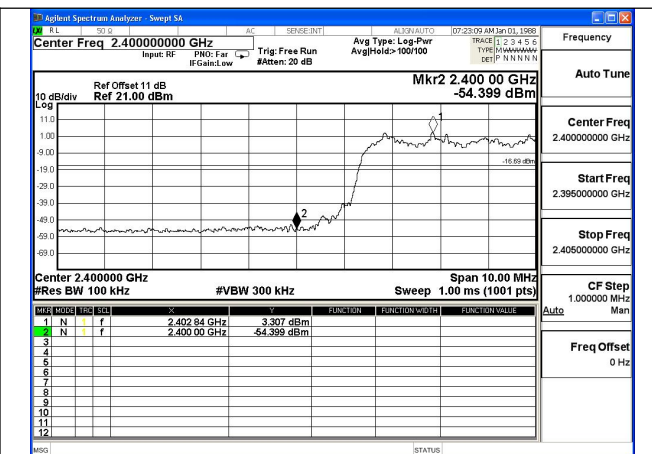
Test Mode: GFSK



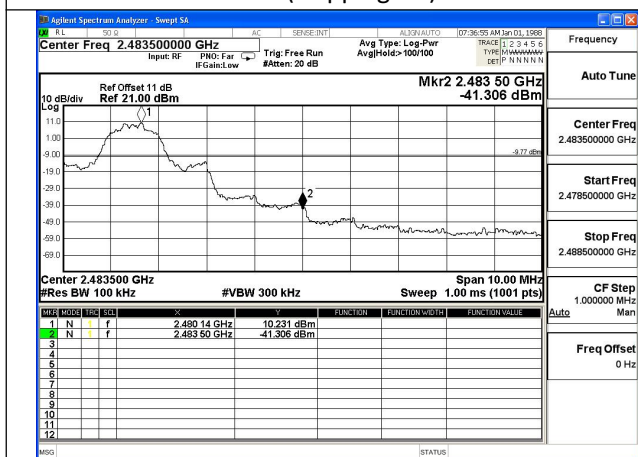
Test Mode: π /4DQPSK



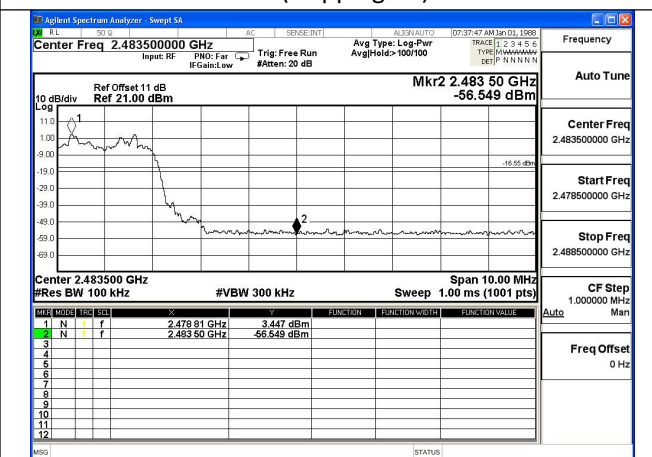
CH0(Hopping off)



CH0(Hopping on)

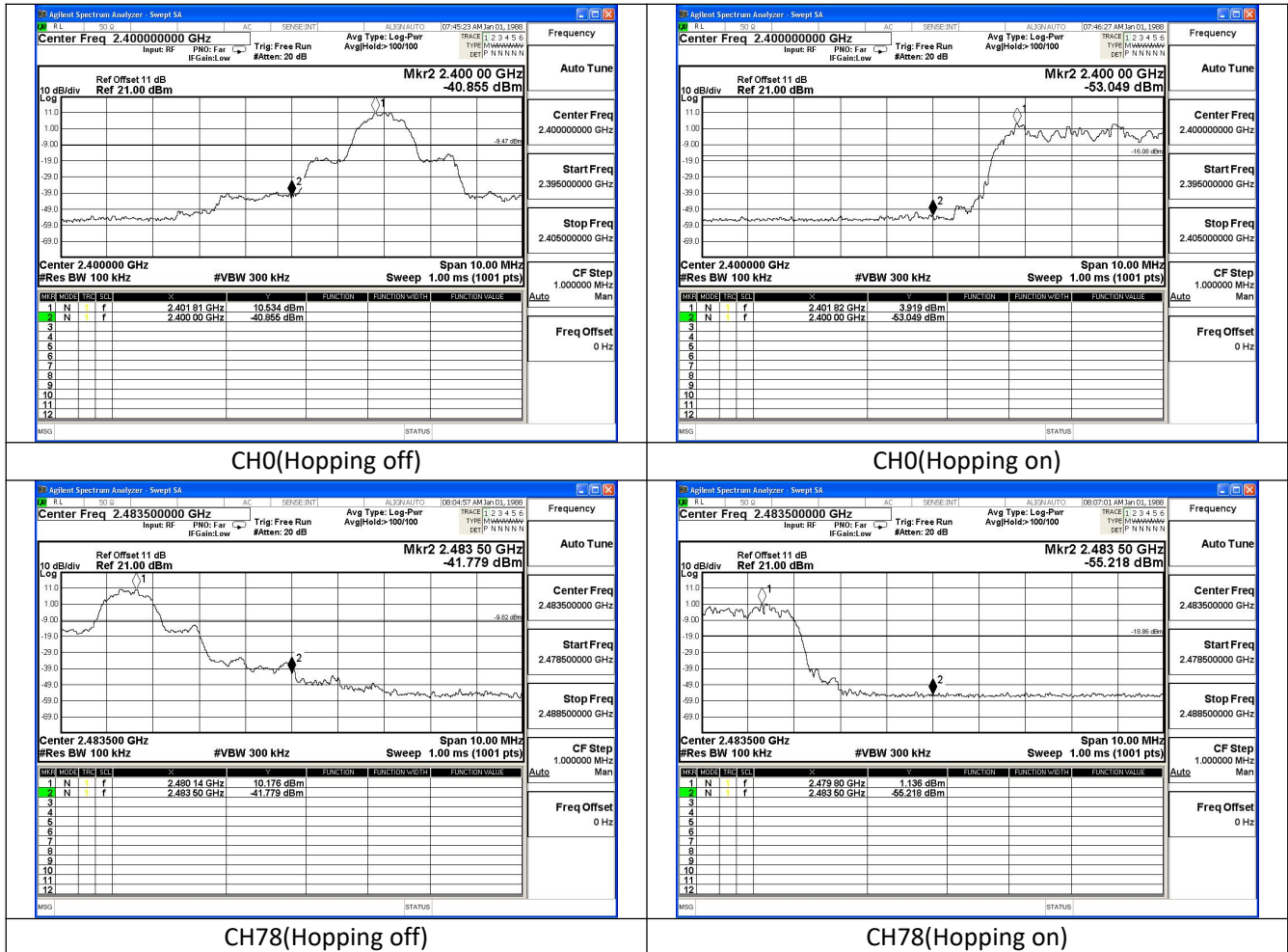


CH78(Hopping off)



CH78(Hopping on)

Test Mode: 8DPSK

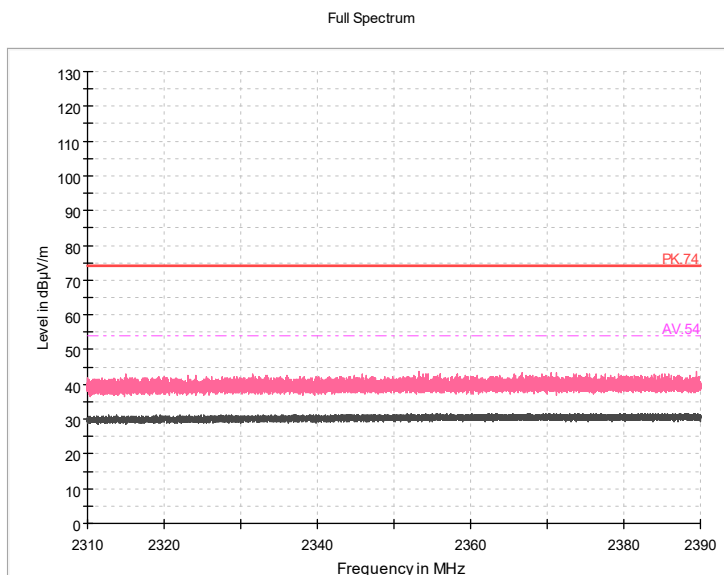


APPENDIX B – TEST DATA OF RADIATED EMISSION

Note: The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Radiated Emission Band Edge

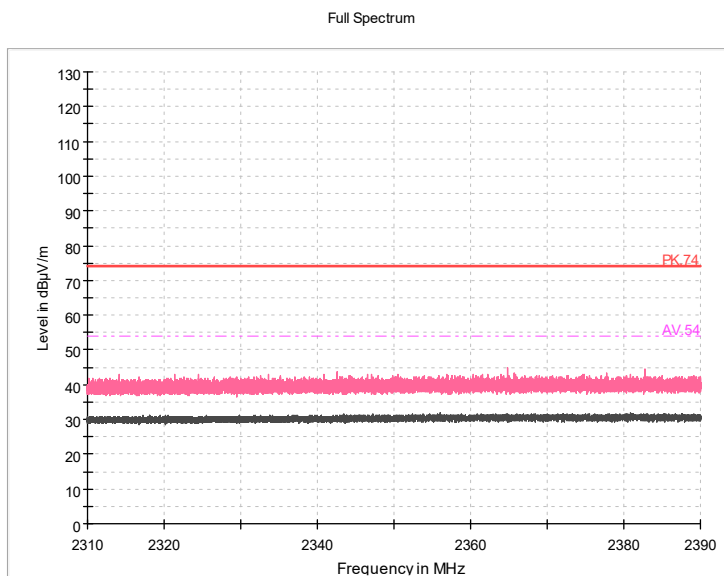


Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Vertical



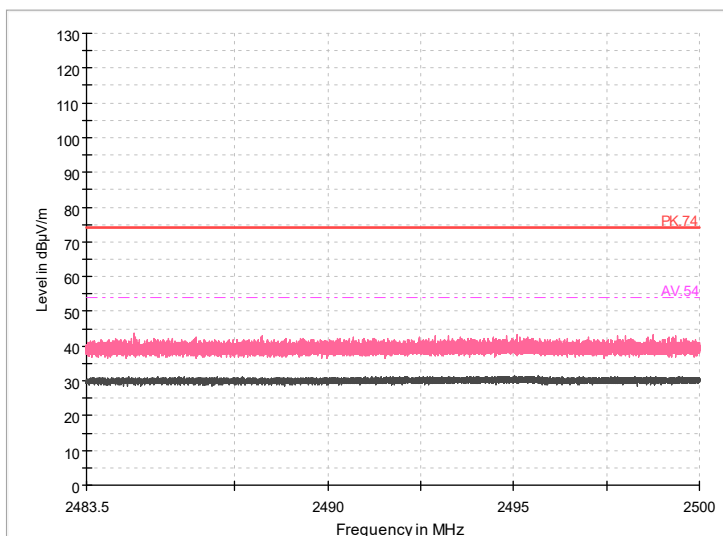
Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

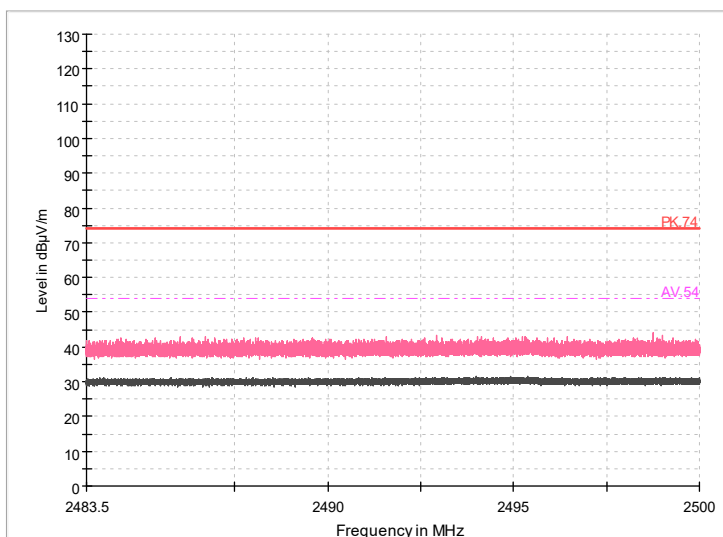
Polarity: Horizontal

Full Spectrum



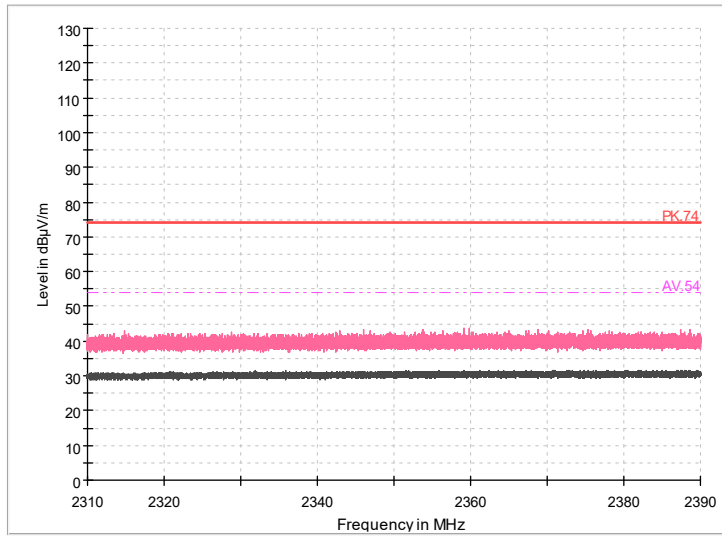
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: GFSK
Polarity: Vertical

Full Spectrum



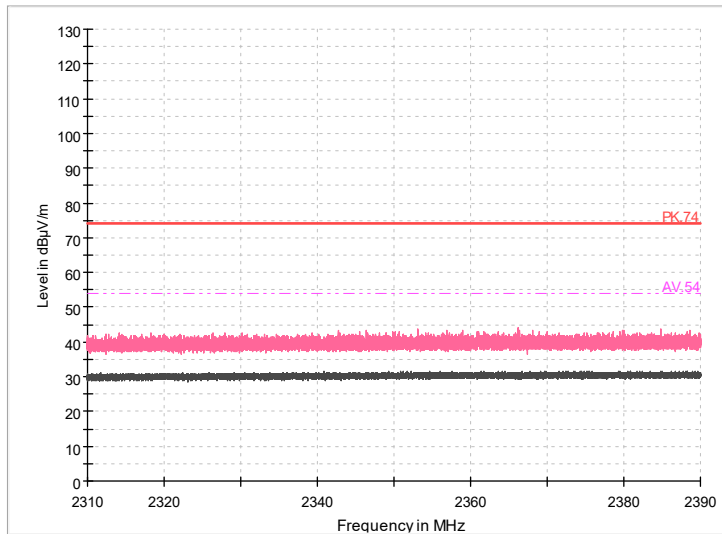
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: GFSK
Polarity: Horizontal

Full Spectrum



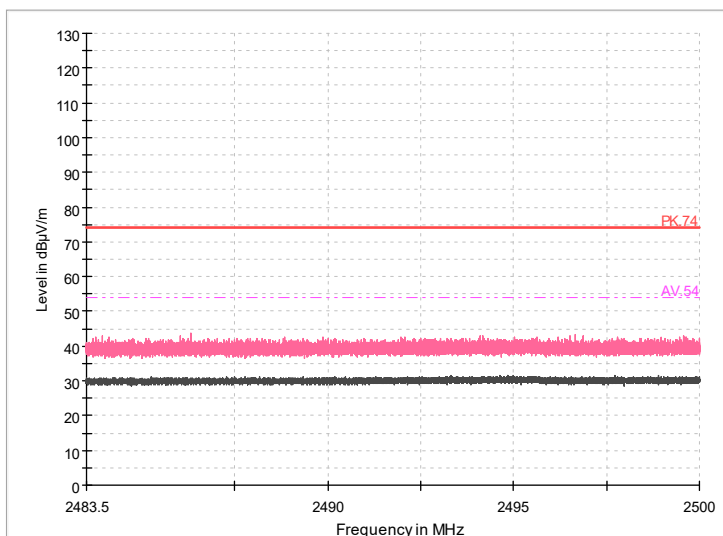
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: $\pi/4$ DQPSK
Polarity: Vertical

Full Spectrum



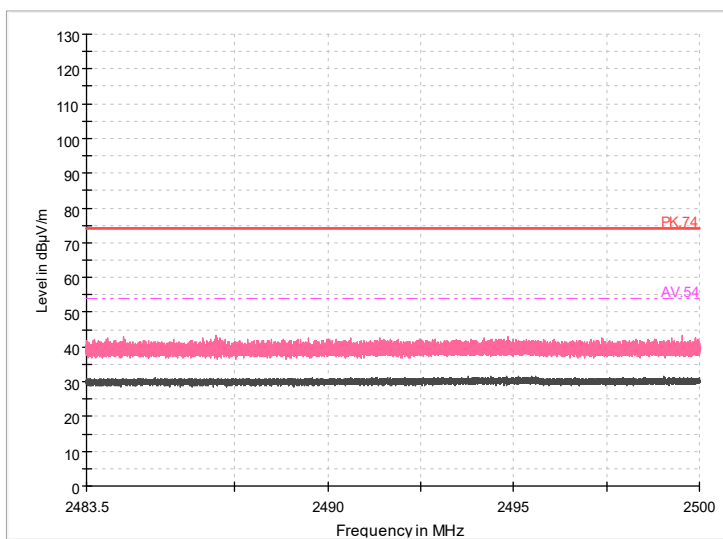
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: $\pi/4$ DQPSK
Polarity: Horizontal

Full Spectrum



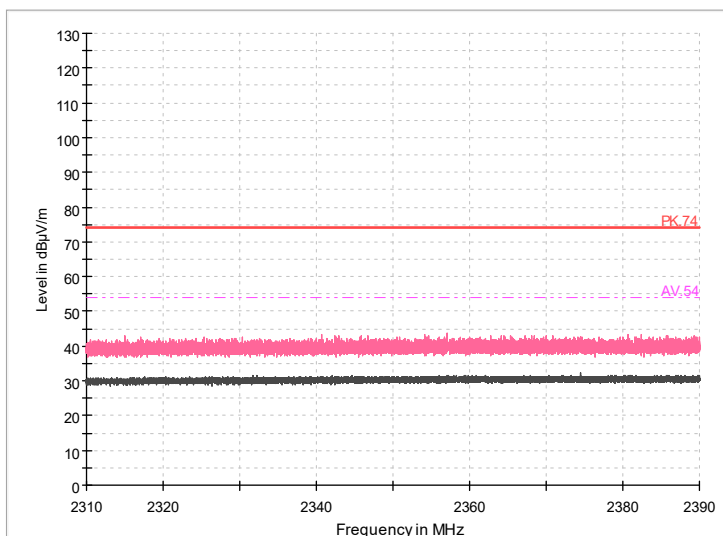
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: $\pi/4$ DQPSK
Polarity: Vertical

Full Spectrum



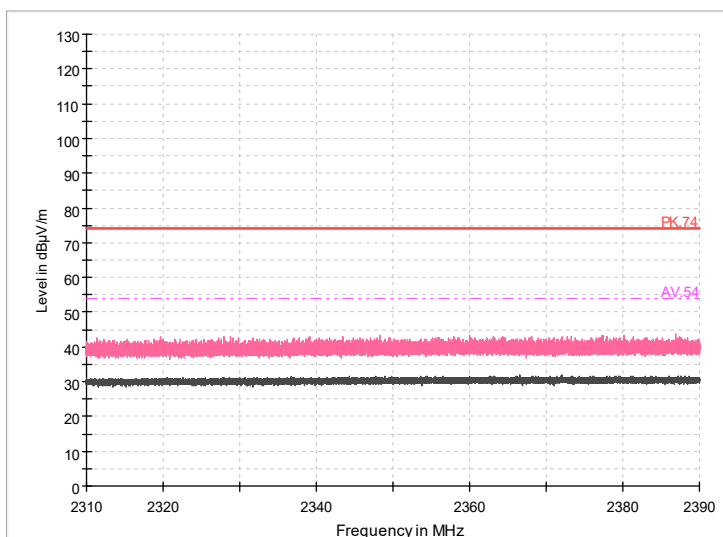
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: $\pi/4$ DQPSK
Polarity: Horizontal

Full Spectrum



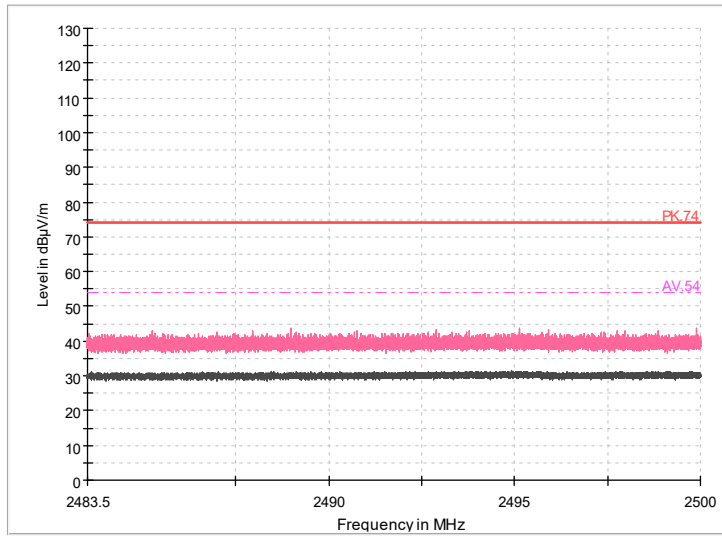
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: 8DPSK
Polarity: Vertical

Full Spectrum



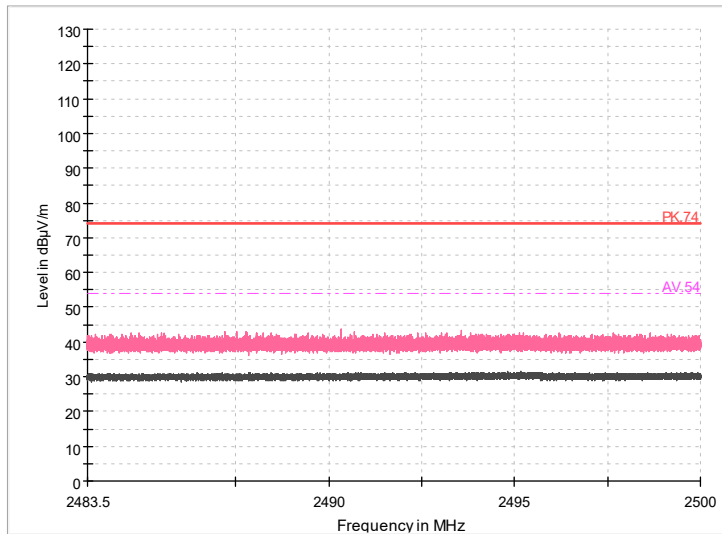
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: 8DPSK
Polarity: Horizontal

Full Spectrum



Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: 8DPSK
Polarity: Vertical

Full Spectrum



Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: 8DPSK
Polarity: Horizontal

Sample Calculations

After comparison, the worst case attitude is EUT lay down.

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

Result = $P_{mea} + A_{Rpl}$

Sample calculation: $(50.64 \text{ dB}\mu\text{V/m}) = (23.64 \text{ dB}\mu\text{V}) - (-27 \text{ dB})$,

For GFSK

Channel No.: 0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.912000	23.64	-27	50.64	Vertical	33.50	9.86
124.995333	26.95	-27	53.95	Vertical	33.50	6.55
249.996000	26.60	-22	48.60	Vertical	36.00	9.40
374.996667	30.82	-18	48.82	Vertical	36.00	5.18
499.997333	32.59	-15	47.59	Horizontal	36.00	3.41
882.962667	21.09	-8	29.09	Horizontal	36.00	14.91

For $\pi/4$ DQPSK

Channel No.: 0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.762333	23.57	-27	50.57	Vertical	33.50	9.93
123.105667	22.60	-27	49.60	Vertical	33.50	10.90
124.995333	26.93	-27	53.93	Vertical	33.50	6.57
249.996000	26.13	-22	48.13	Vertical	36.00	9.87
374.996667	30.53	-18	48.53	Vertical	36.00	5.47
499.997333	32.49	-15	47.49	Horizontal	36.00	3.51

For 8DPS

Channel No.: 0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.576000	23.43	-27	50.43	Vertical	33.50	10.07
123.801667	22.35	-27	49.35	Vertical	33.50	11.15
124.995333	27.01	-27	54.01	Vertical	33.50	6.49
249.996000	26.67	-22	48.67	Vertical	36.00	9.33
374.996667	30.73	-18	48.73	Vertical	36.00	5.27
499.997333	32.45	-15	47.45	Horizontal	36.00	3.55

For GFSK

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.710333	23.38	-27	50.38	Vertical	33.50	10.12
123.765000	22.48	-27	49.48	Vertical	33.50	11.02
124.995333	27.03	-27	54.03	Vertical	33.50	6.47
249.996000	25.63	-22	47.63	Vertical	36.00	10.37
374.996667	30.86	-18	48.86	Vertical	36.00	5.14
499.997333	32.68	-15	47.68	Horizontal	36.00	3.32

For $\pi/4$ DQPSK

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.652333	23.39	-27	50.39	Vertical	33.50	10.11
120.899333	23.47	-27	50.47	Vertical	33.50	10.03
123.480000	22.87	-27	49.87	Vertical	33.50	10.63
124.995333	26.92	-27	53.92	Vertical	33.50	6.58
374.996667	30.80	-18	48.80	Vertical	36.00	5.20
499.997333	32.38	-15	47.38	Horizontal	36.00	3.62

For 8DPSK

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
119.994000	22.72	-27	49.72	Vertical	33.50	10.78
124.995333	26.79	-27	53.79	Vertical	33.50	6.71
249.996000	26.20	-22	48.20	Vertical	36.00	9.80
374.996667	30.63	-18	48.63	Vertical	36.00	5.37
499.997333	33.07	-15	48.07	Horizontal	36.00	2.93
959.489000	21.77	-7	28.77	Horizontal	36.00	14.23

For GFSK

Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.805667	23.64	-27	50.64	Vertical	33.50	9.86
121.015667	23.49	-27	50.49	Vertical	33.50	10.01
123.518333	22.45	-27	49.45	Vertical	33.50	11.05
124.995333	27.24	-27	54.24	Vertical	33.50	6.26
374.996667	30.20	-18	48.20	Vertical	36.00	5.80
499.997333	32.79	-15	47.79	Horizontal	36.00	3.21

For $\pi/4$ DQPSK

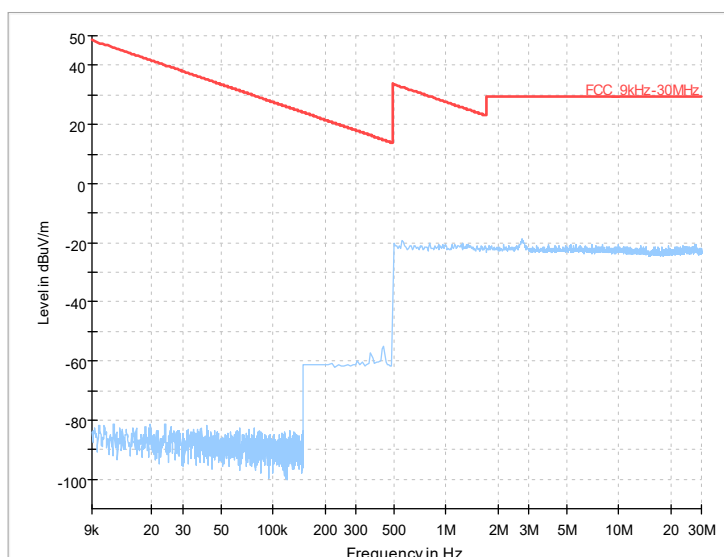
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.847333	23.48	-27	50.48	Vertical	33.50	10.02

124.995333	27.15	-27	54.15	Vertical	33.50	6.35
249.996000	26.36	-22	48.36	Vertical	36.00	9.64
374.996667	30.57	-18	48.57	Vertical	36.00	5.43
499.997333	32.69	-15	47.69	Horizontal	36.00	3.31
940.316000	21.67	-8	29.67	Horizontal	36.00	14.33

For 8DPSK
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
120.718000	23.40	-27	50.40	Vertical	33.50	10.10
123.594667	22.78	-27	49.78	Vertical	33.50	10.72
126.153333	20.05	-27	47.05	Vertical	33.50	13.45
249.996000	25.65	-22	47.65	Vertical	36.00	10.35
374.996667	30.70	-18	48.70	Vertical	36.00	5.30
499.997333	32.77	-15	47.77	Horizontal	36.00	3.23



Frequency Range: 9kHz -30MHz

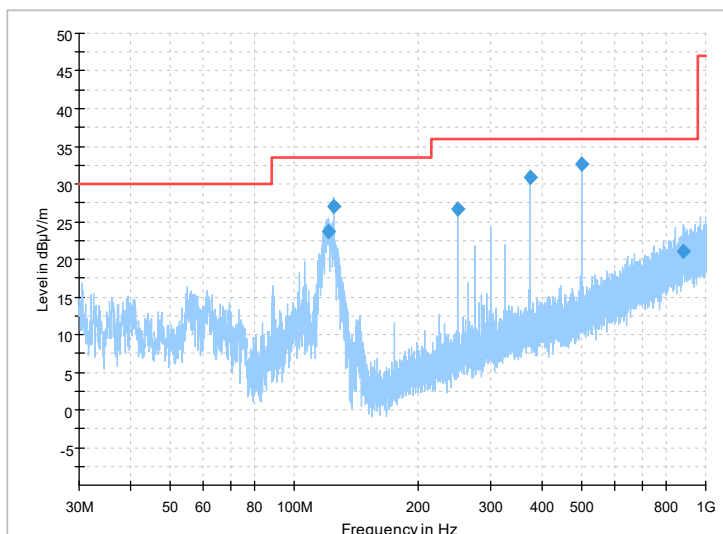
Detector: QP mode

Note: The relevant tests have been performed in order to verify in which mode would have the worst features, the result show above is the worst case.

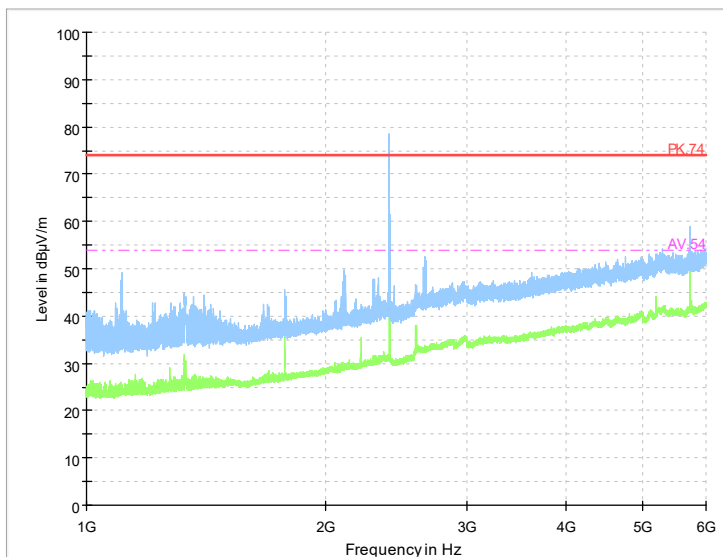
Carrier frequency (MHz): 2402

Channel No.:0

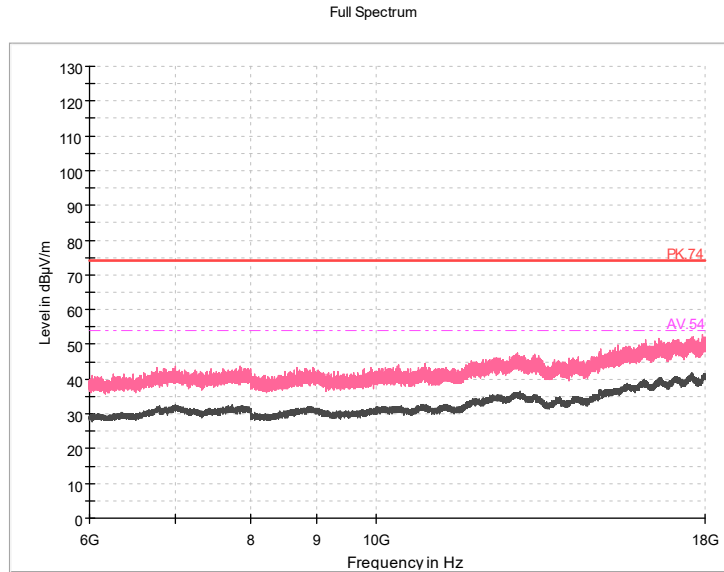
Full Spectrum



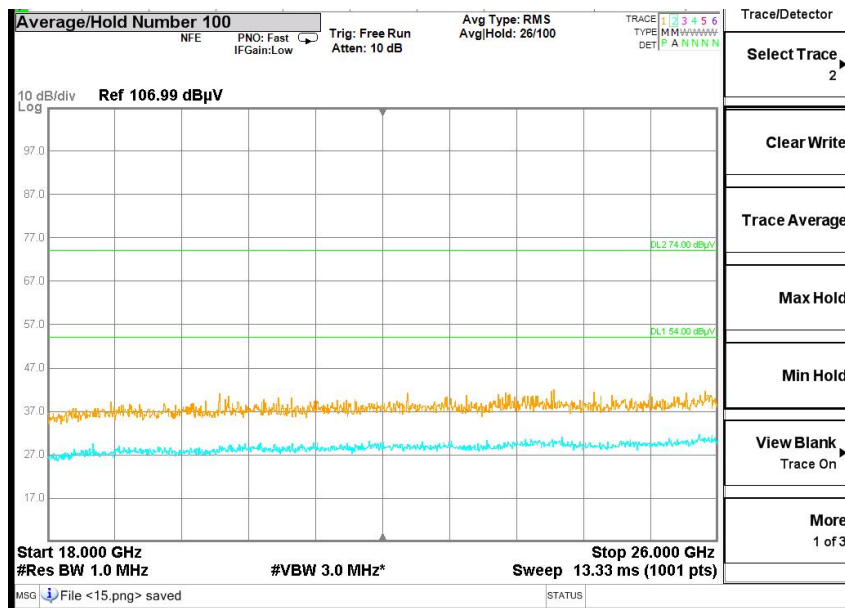
Frequency Range:30MHz-1GHz
Detector: QP mode
Modulation type: GFSK



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK

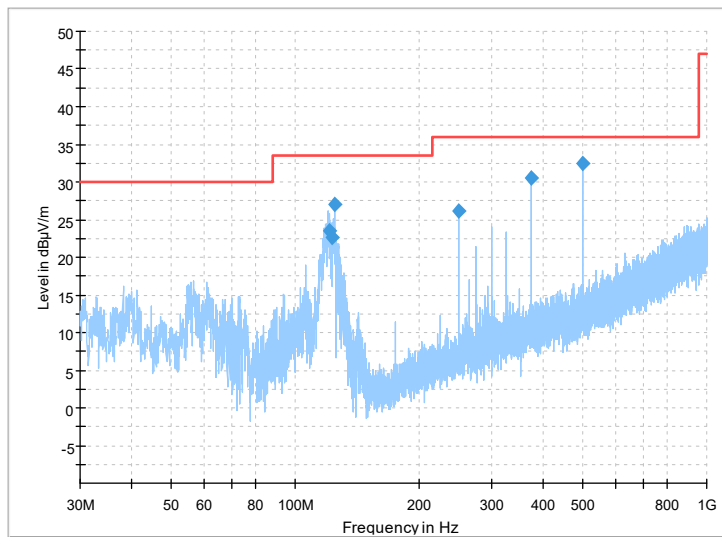


Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

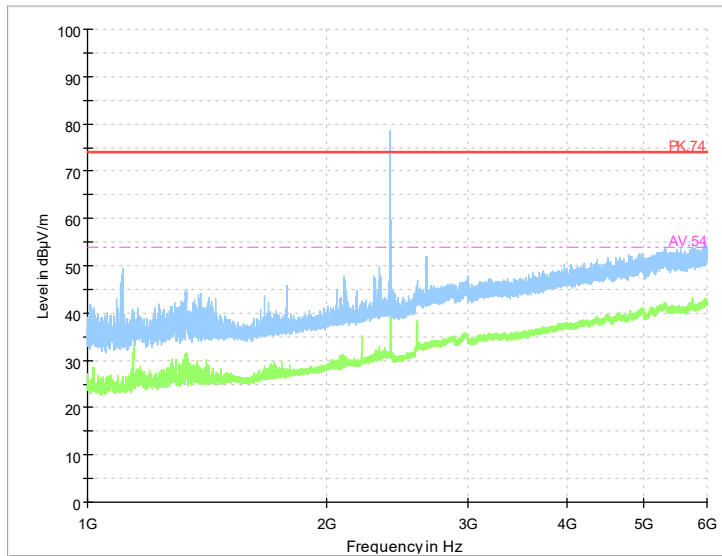


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK

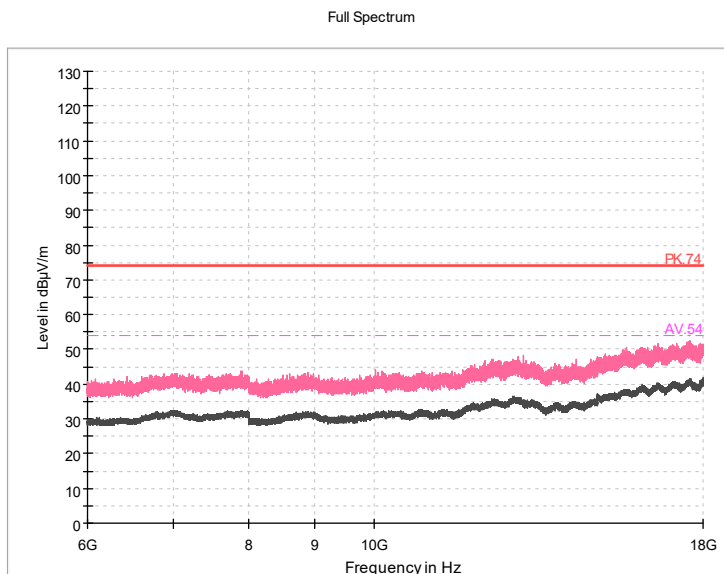
Full Spectrum



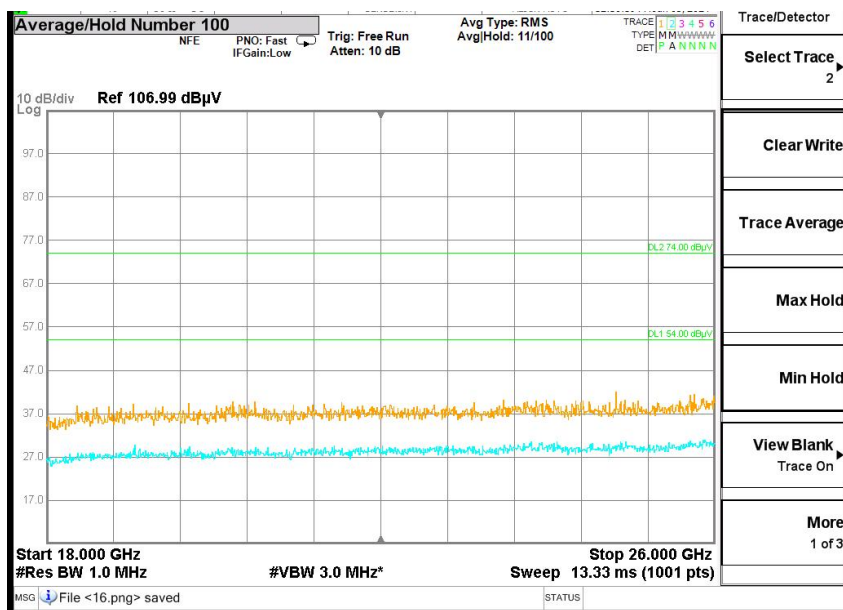
Frequency Range:30MHz-1GHz
Detector: QP mode
Modulation type: $\pi/4$ DQPSK



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

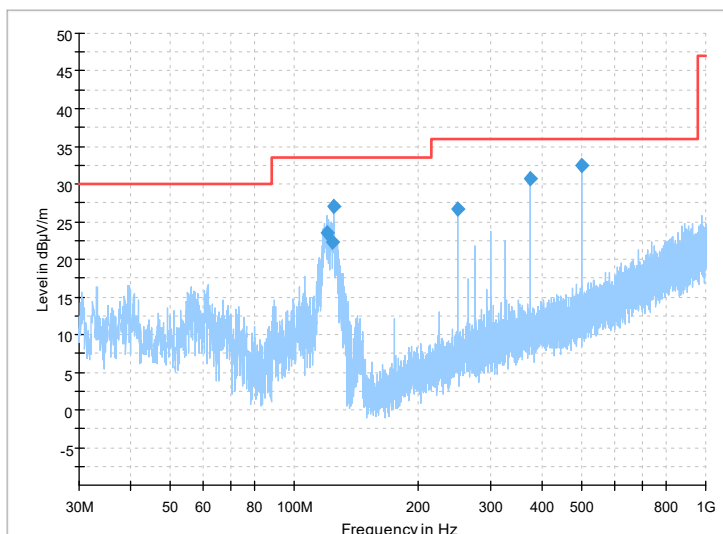


Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

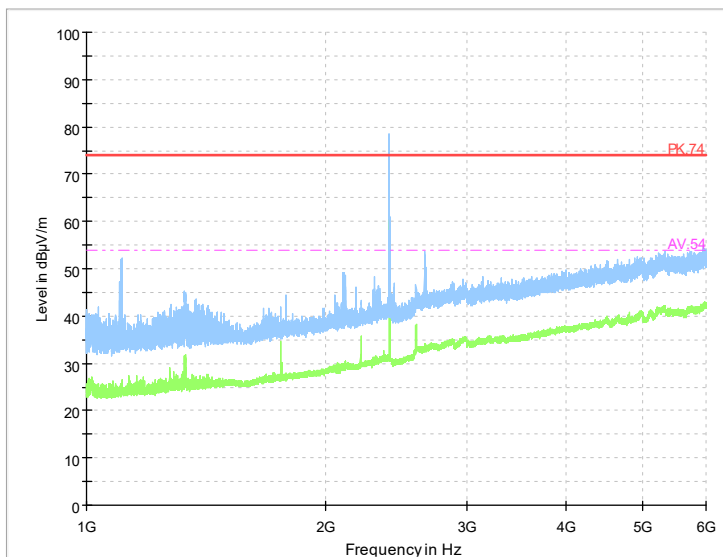


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

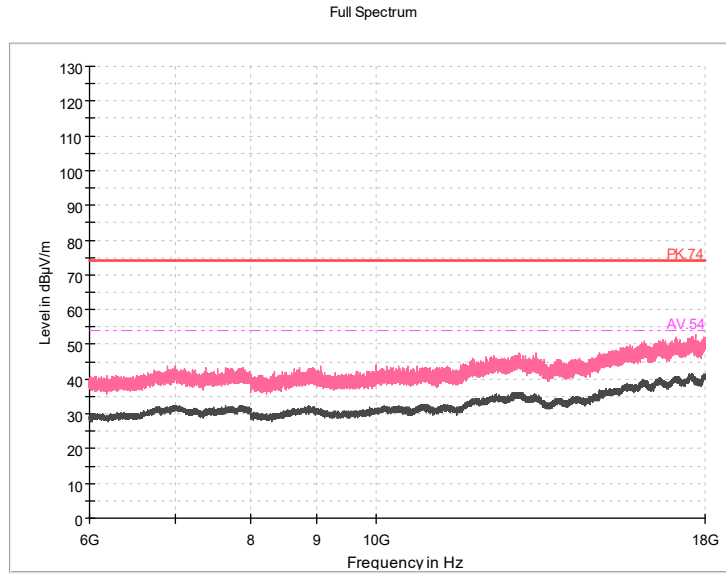
Full Spectrum



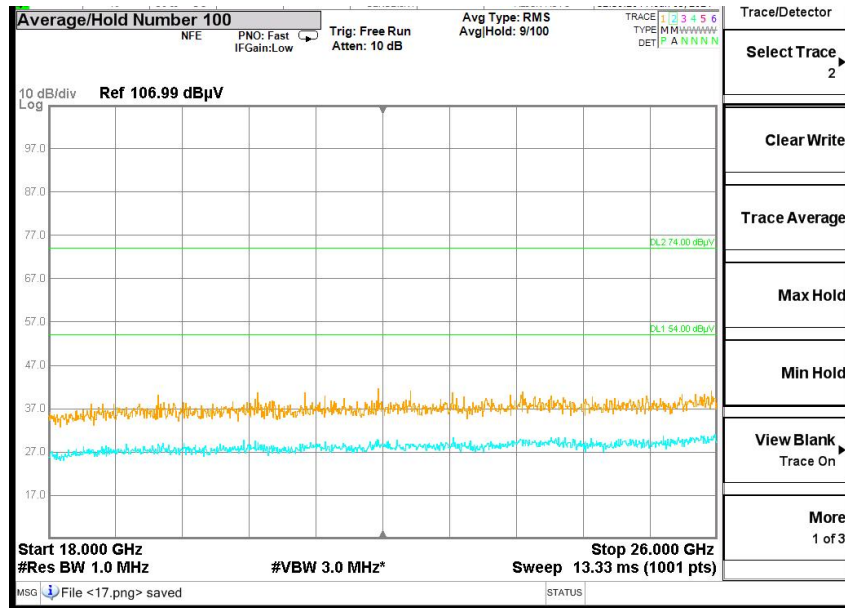
Frequency Range:30MHz-1GHz
Detector: QP mode
Modulation type: 8DPSK



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

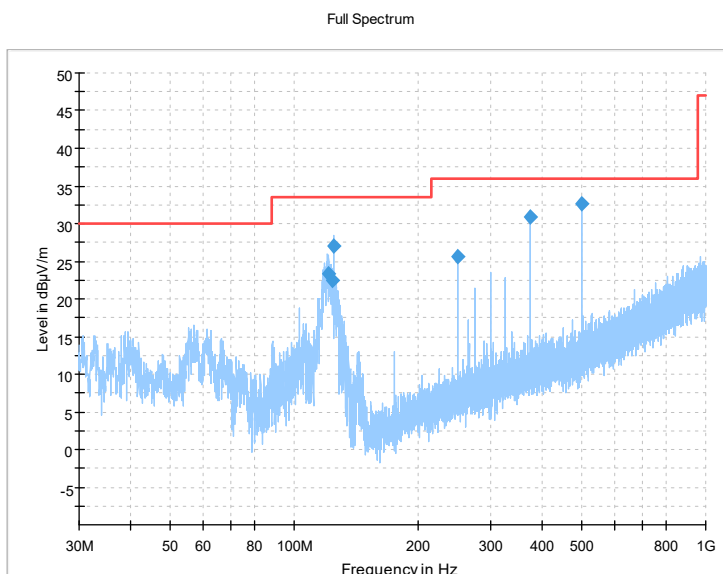


Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

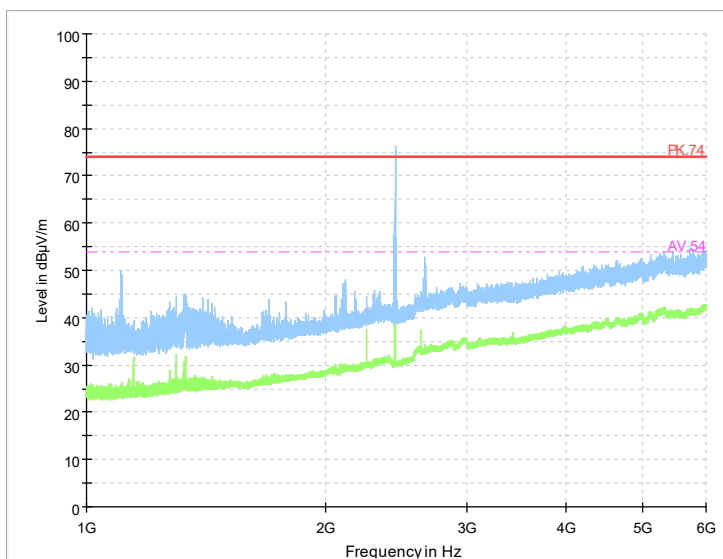


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

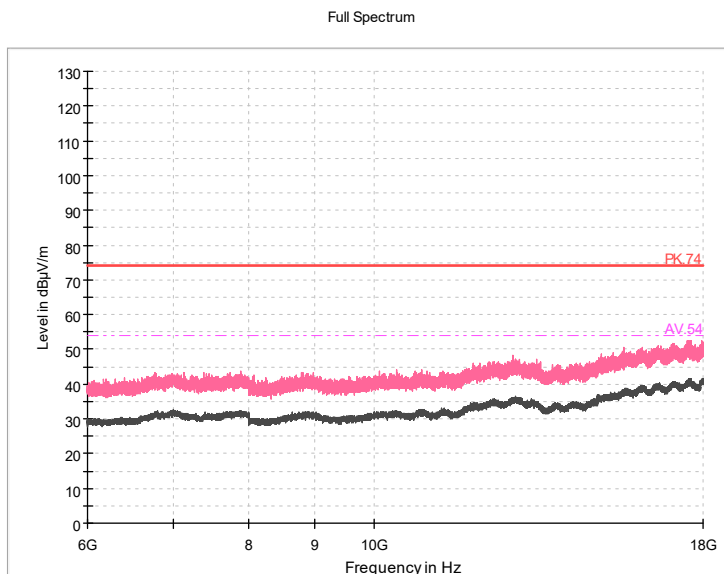
Carrier frequency (MHz): 2440
Channel No.:39



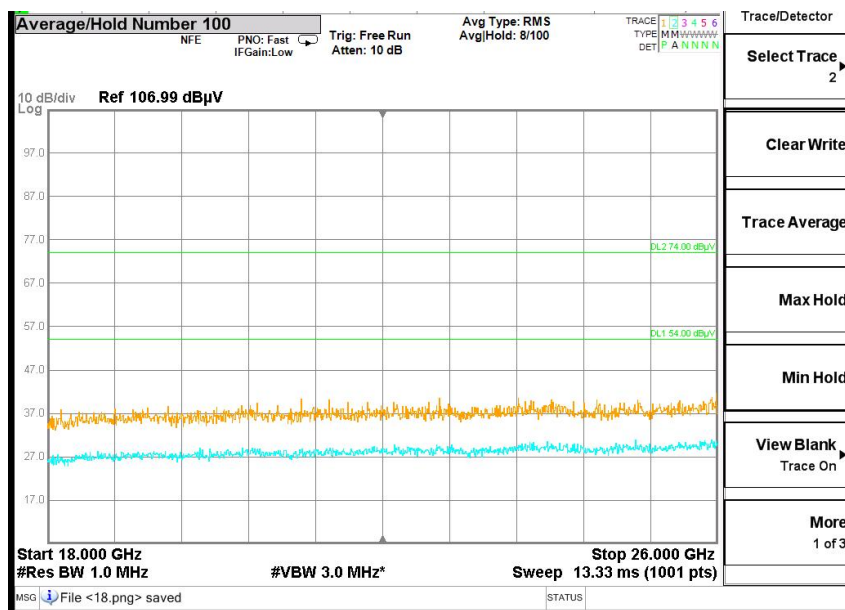
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: GFSK



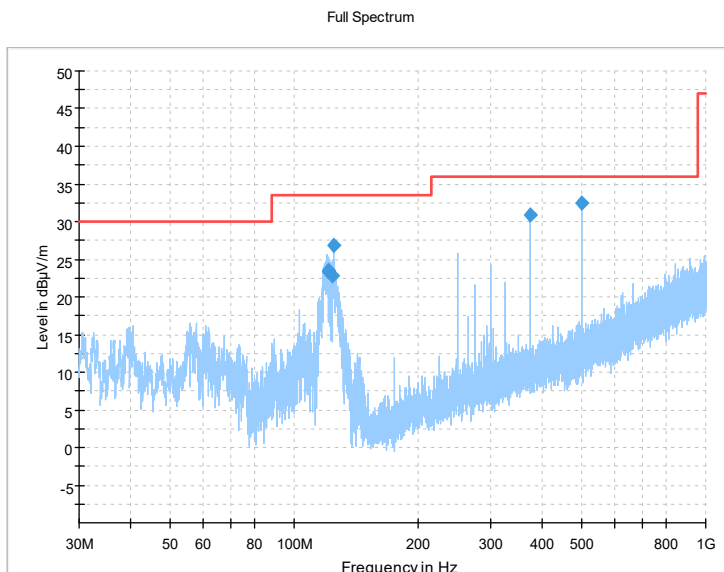
Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK



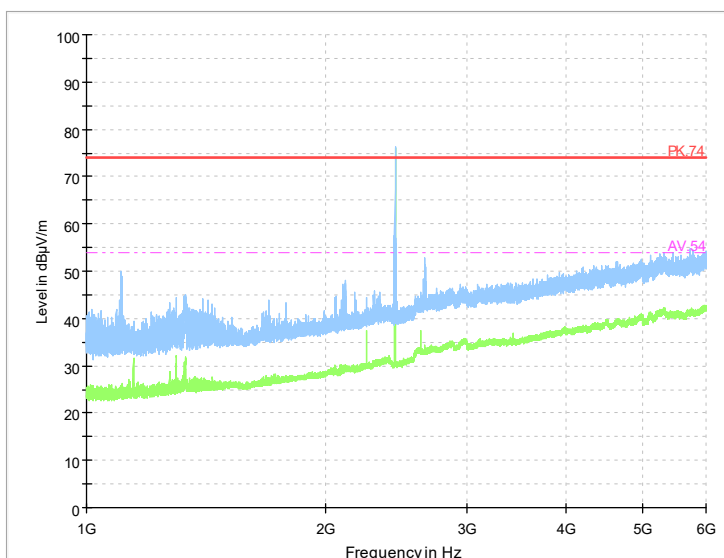
Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK



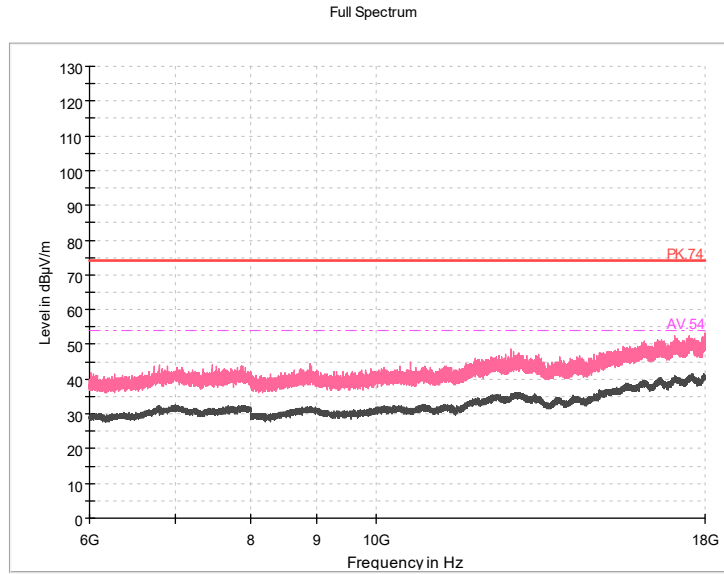
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK



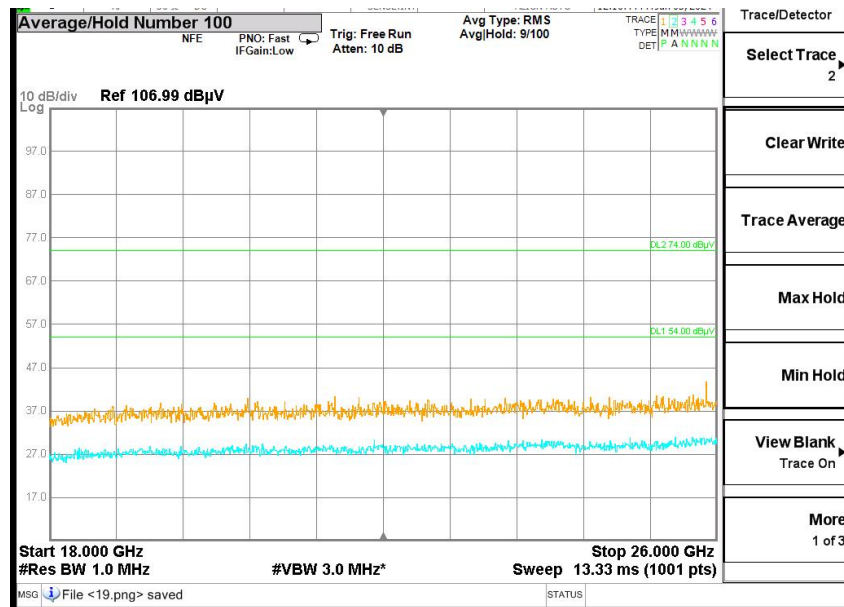
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: $\pi/4$ DQPSK



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

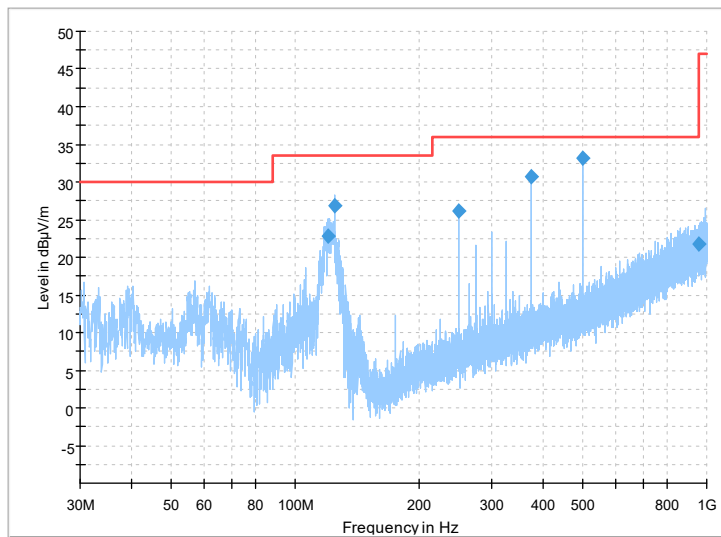


Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

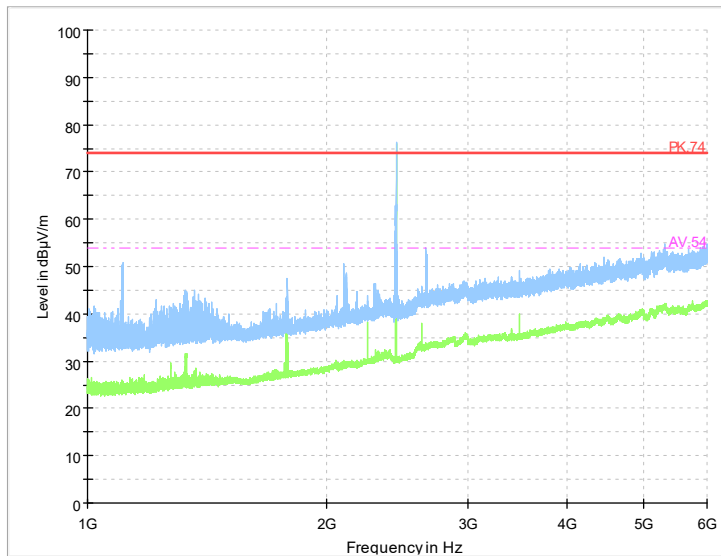


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum

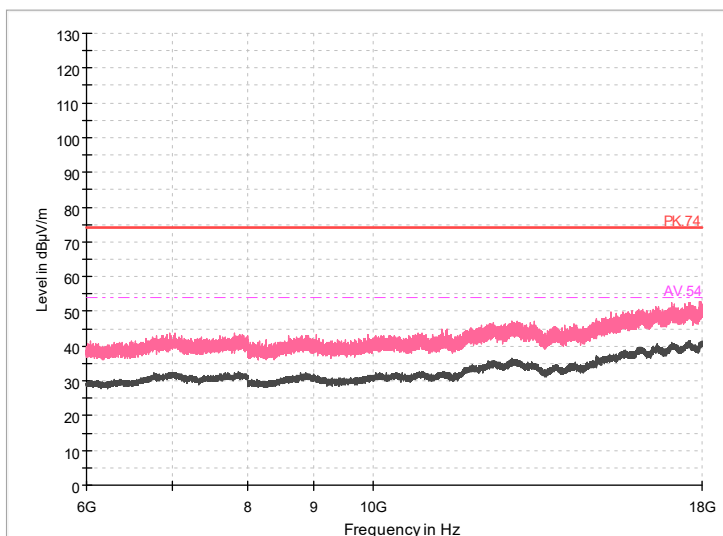


Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: 8DPSK

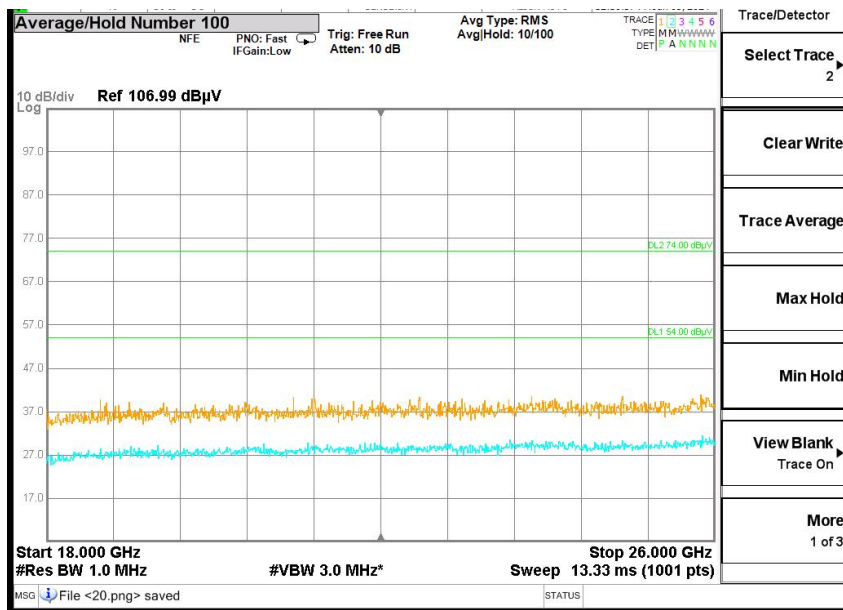


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Full Spectrum

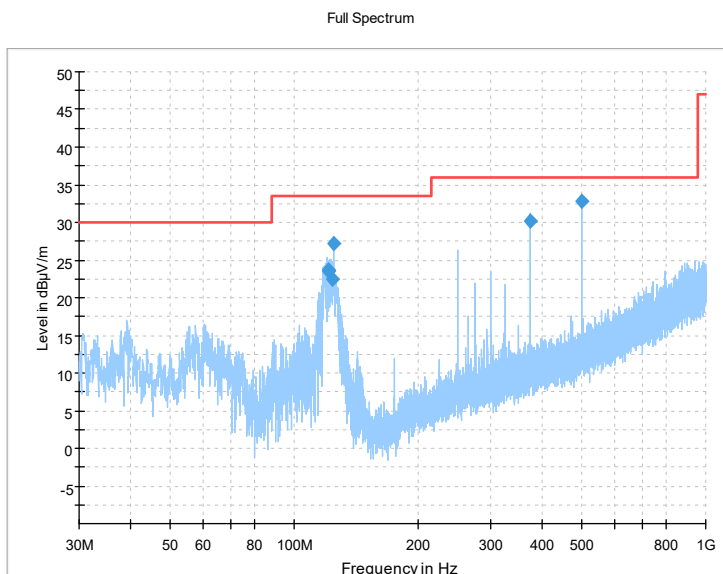


Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

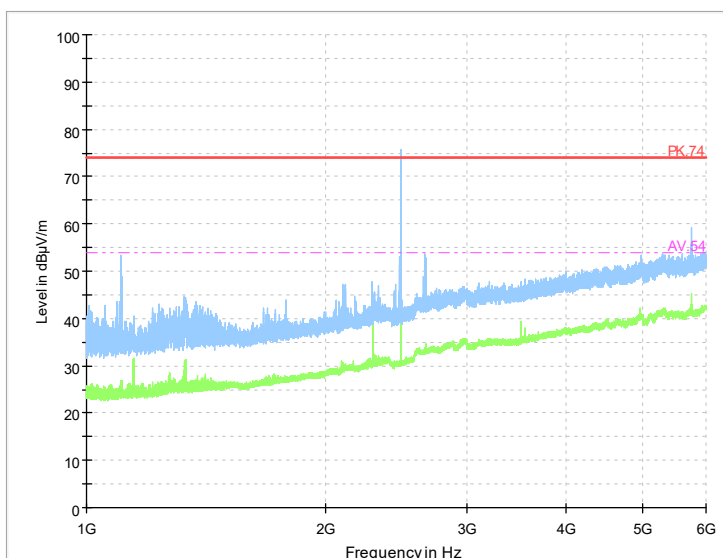


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

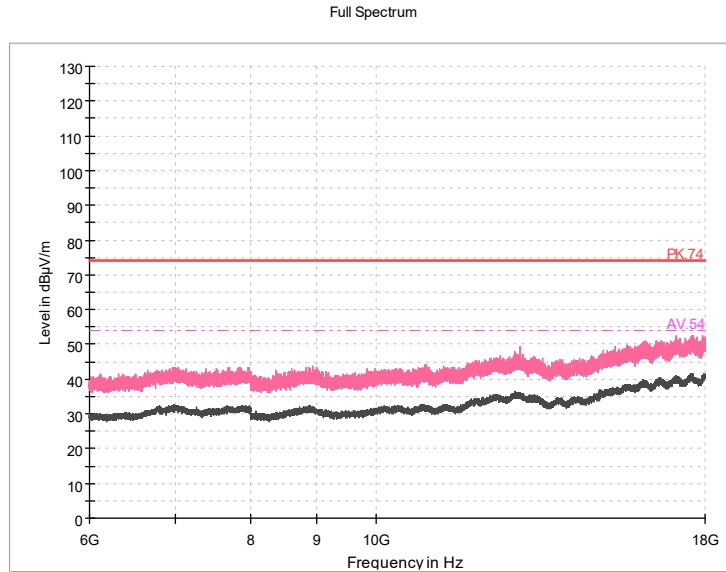
Carrier frequency (MHz): 2480
Channel No.:78



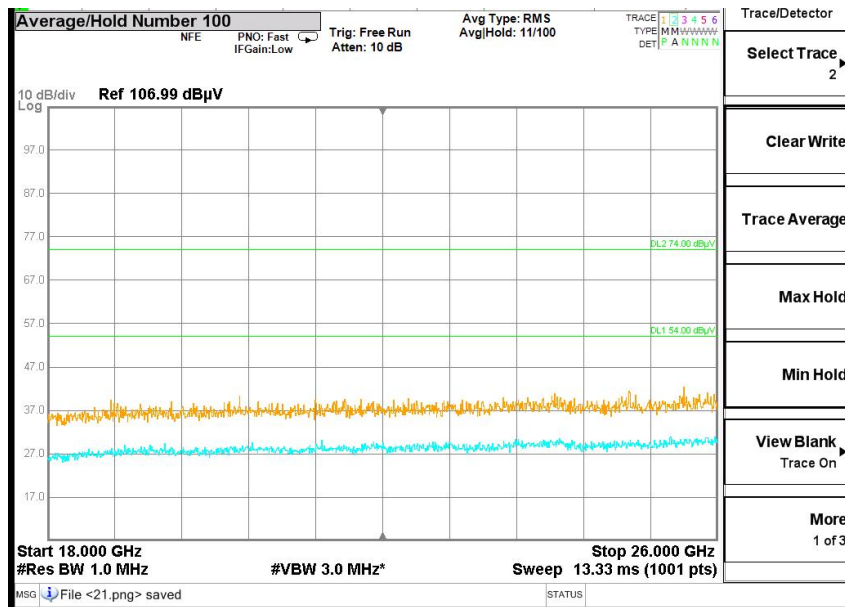
Frequency Range:30MHz-1GHz
Detector: QP mode
Modulation type: GFSK



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK

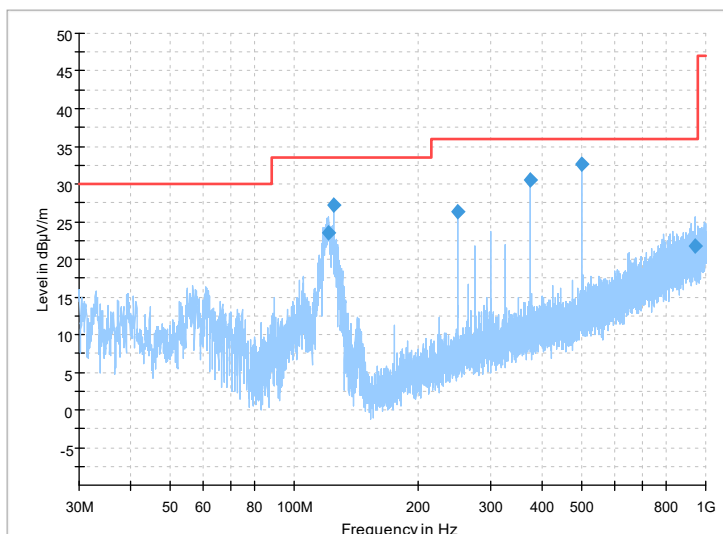


Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

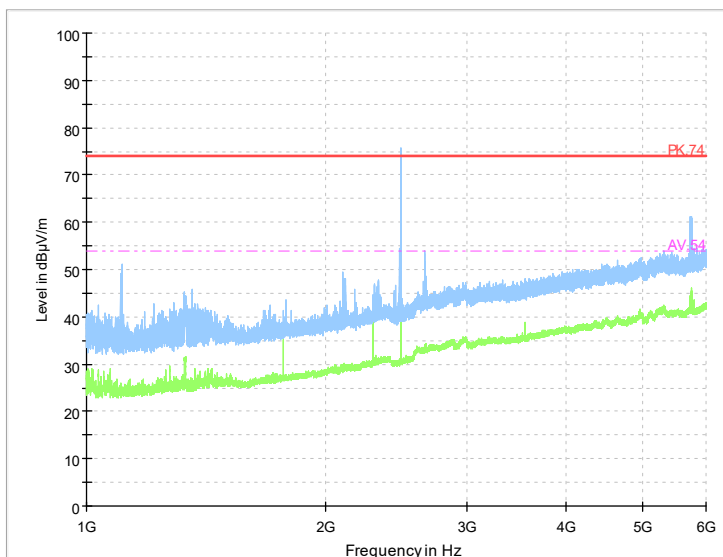


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK

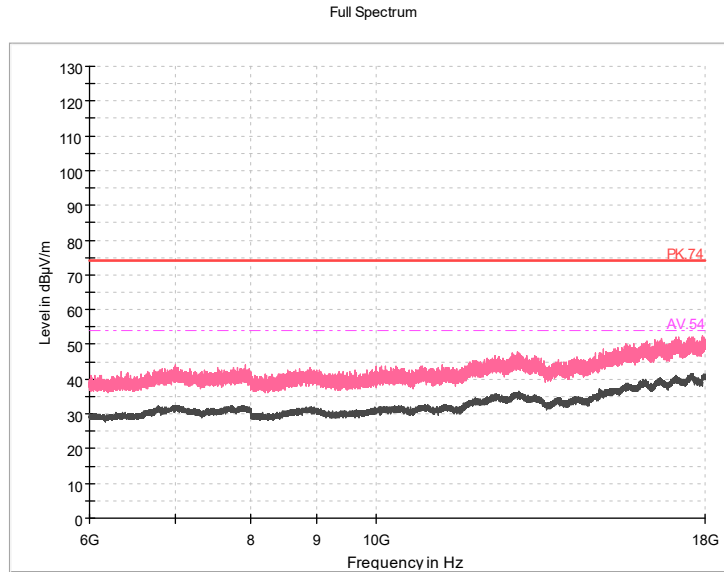
Full Spectrum



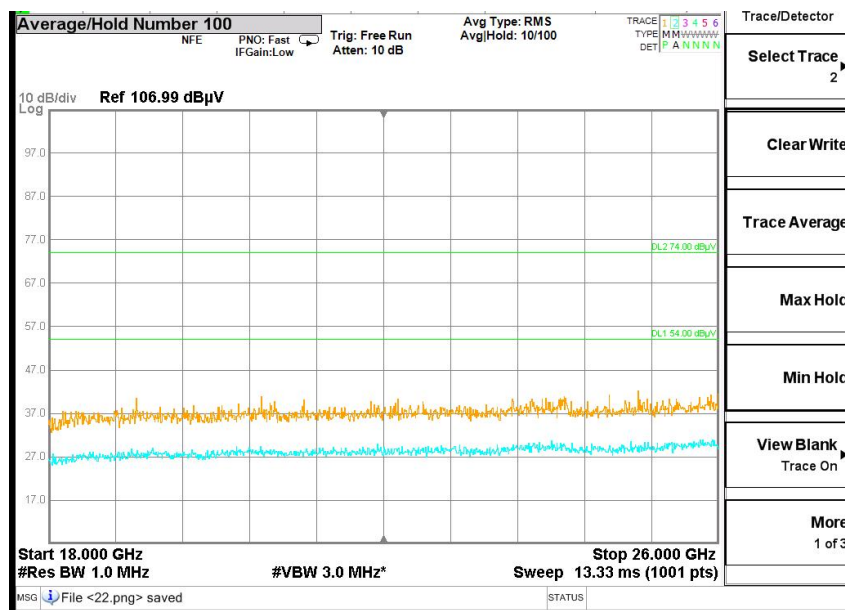
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: $\pi/4$ DQPSK



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

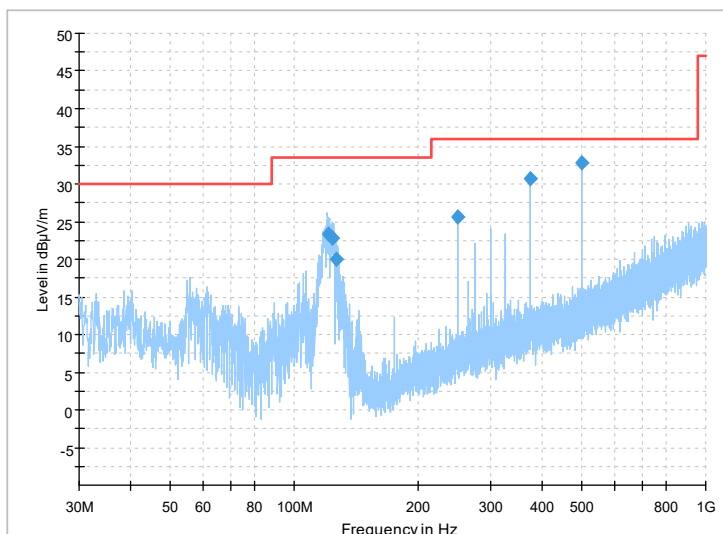


Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

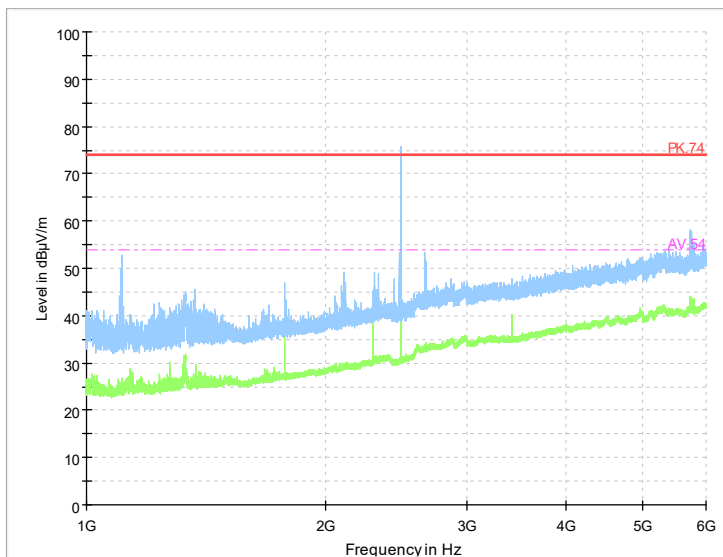


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

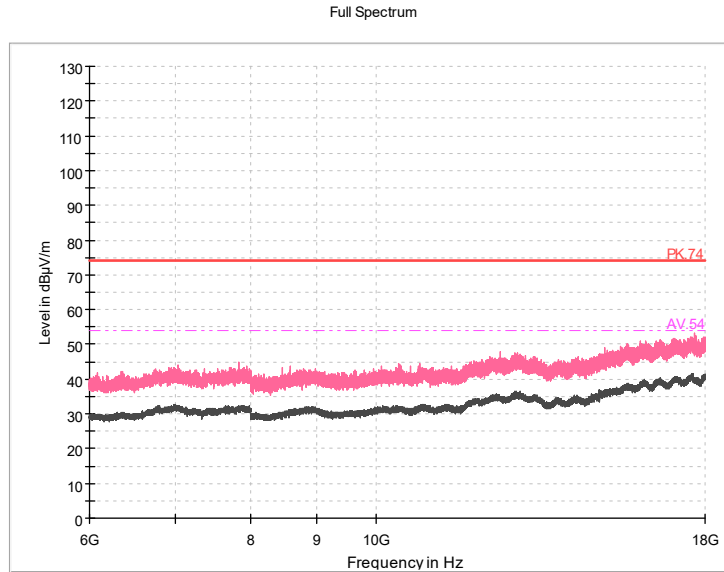
Full Spectrum



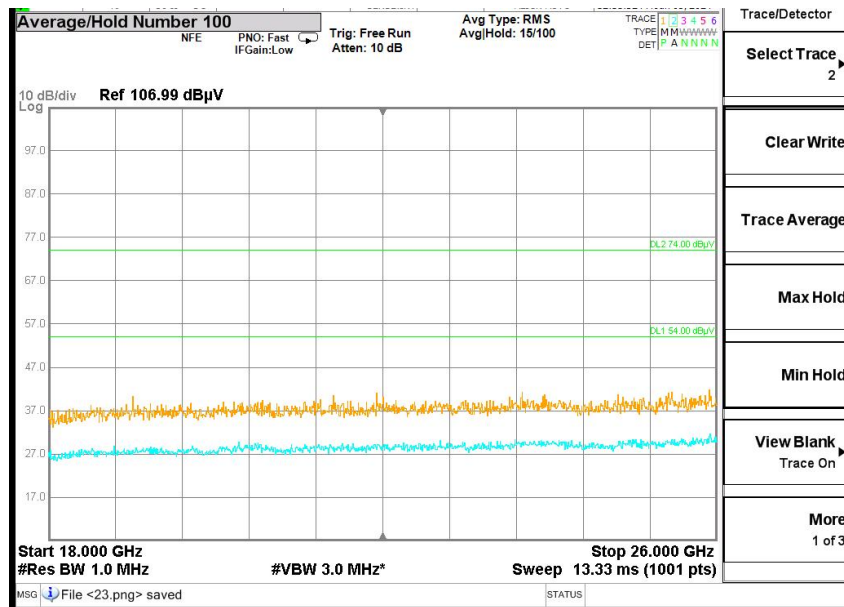
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: 8DPSK



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

---End of Test Report---