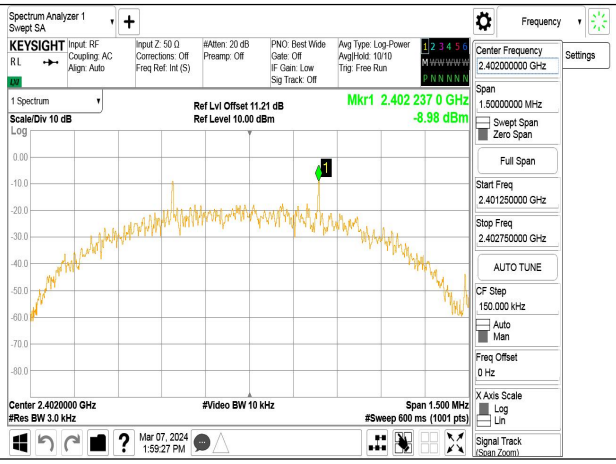
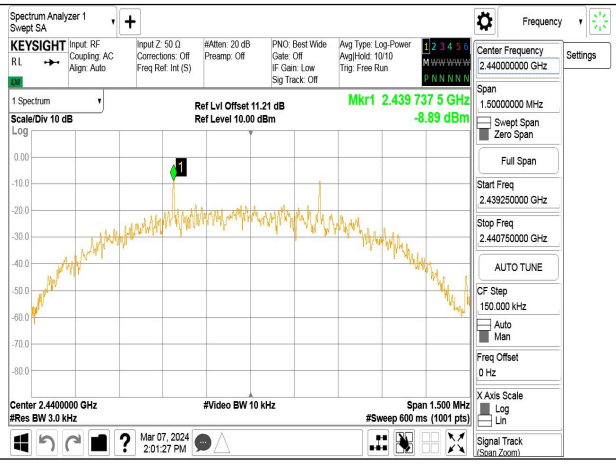
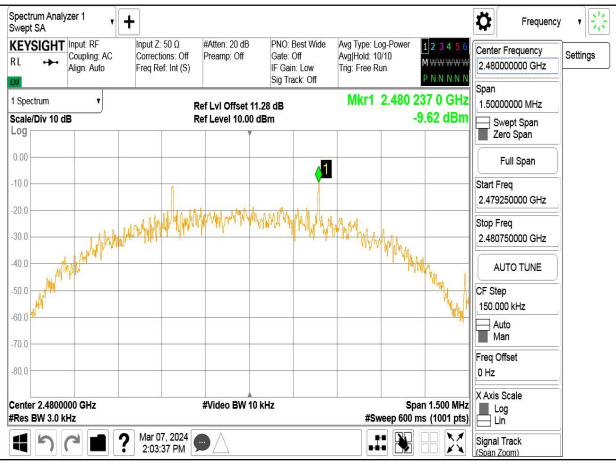
Test Mode: Coded 500K



Test Mode:Coded 500K 2402MHz

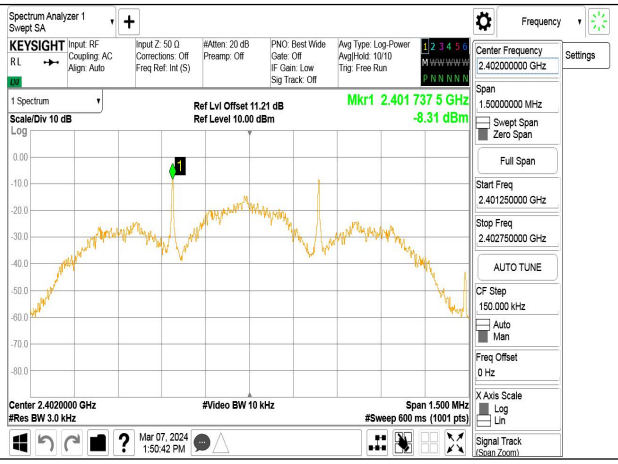


Test Mode:Coded 500K 2440MHz

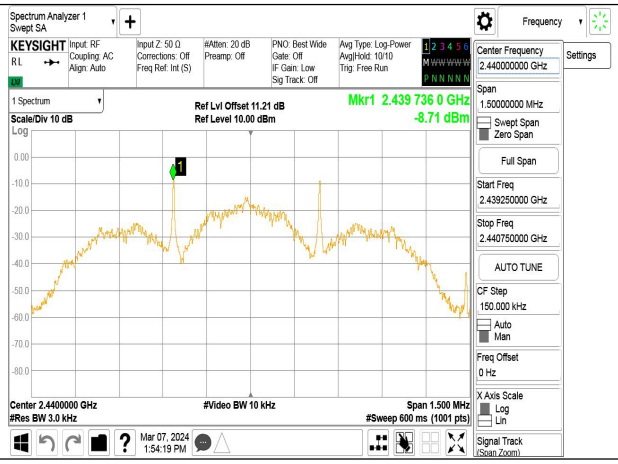


Test Mode:Coded 500K 2480MHz

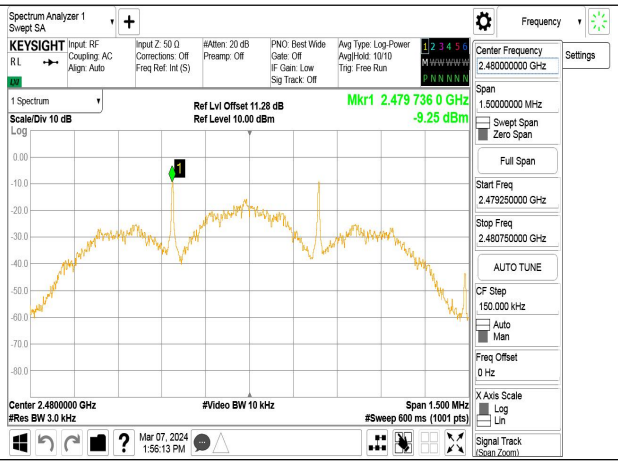
Test Mode: Coded 125K



Test Mode:Coded 125K 2402MHz



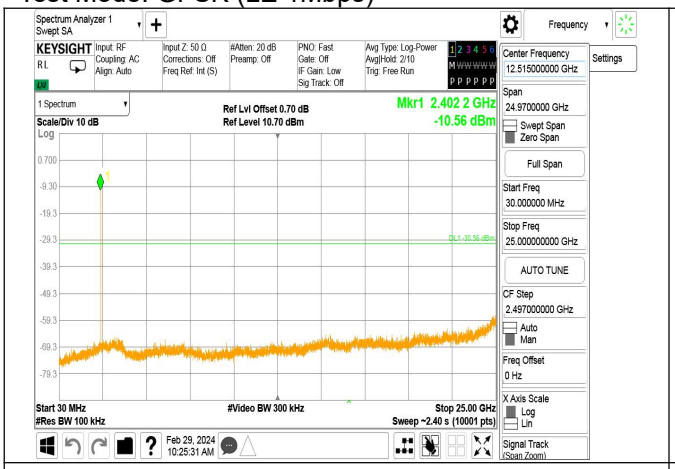
Test Mode:Coded 125K 2440MHz



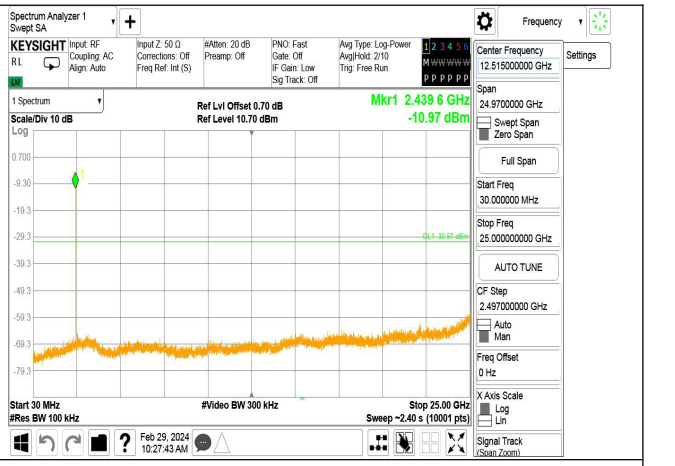
Test Mode:Coded 125K 2480MHz

5 Conducted Out of band emission measurement

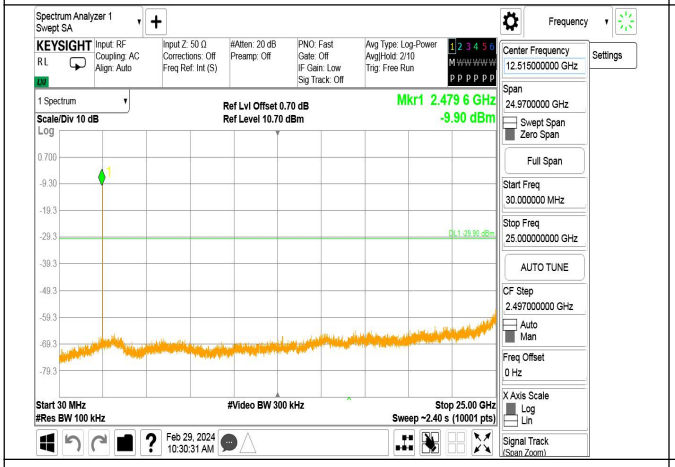
Test Mode: GFSK (LE 1Mbps)



CH0

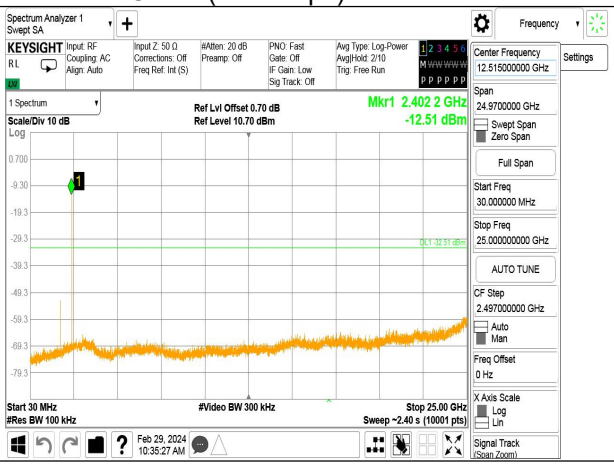


CH19

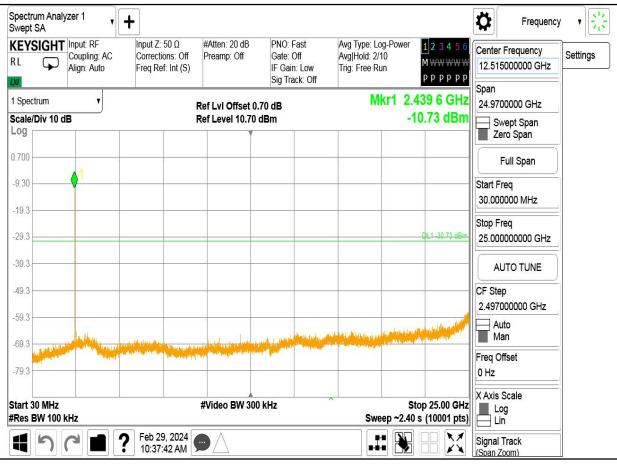


CH39

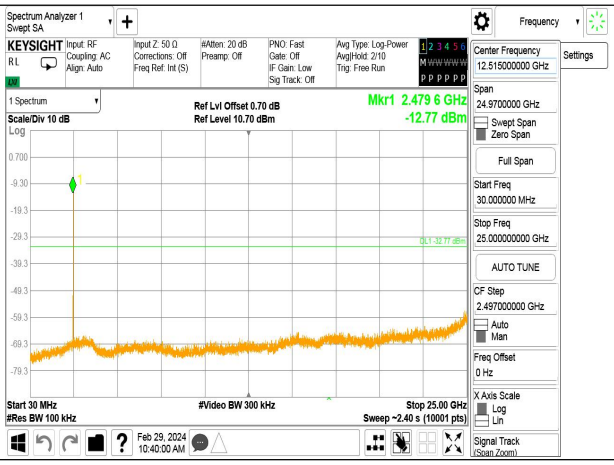
Test Mode: GFSK (LE 2Mbps)



CH0

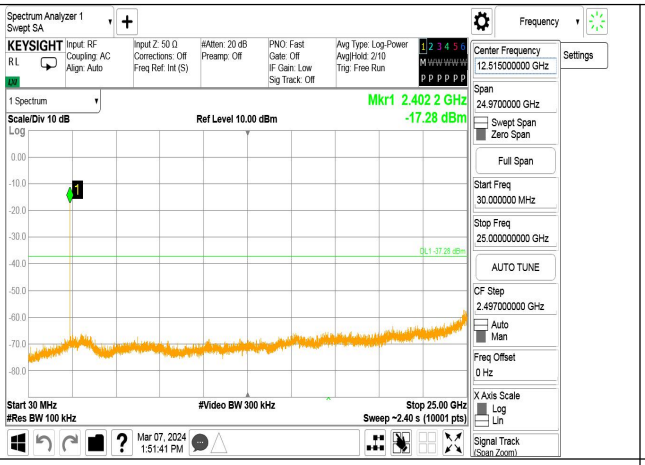


CH19

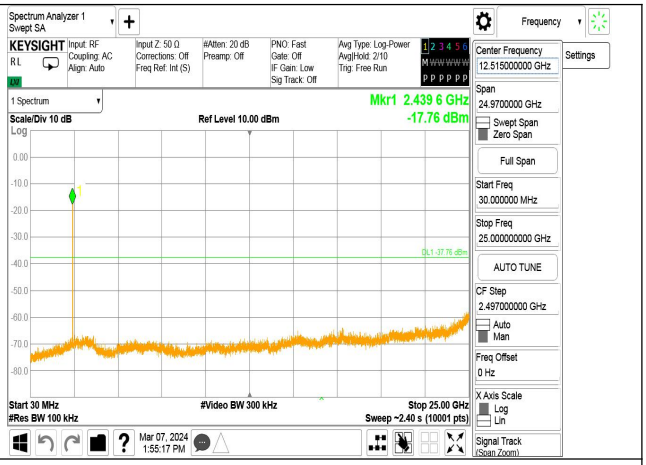


CH39

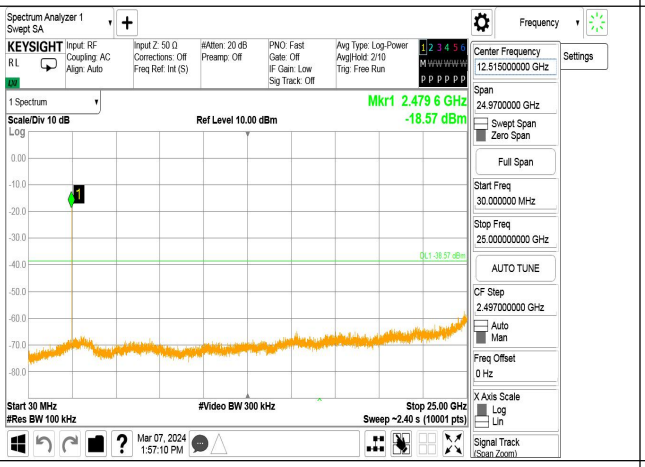
Test Mode: Coded 125K



CH0

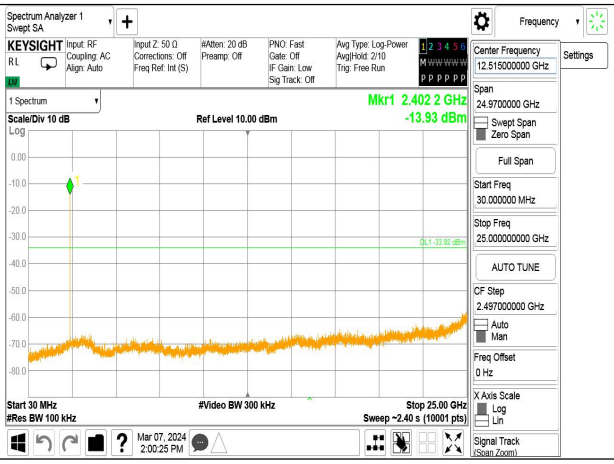


CH19

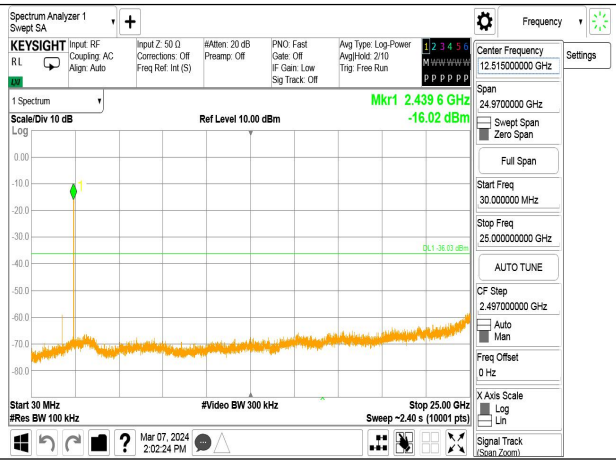


CH39

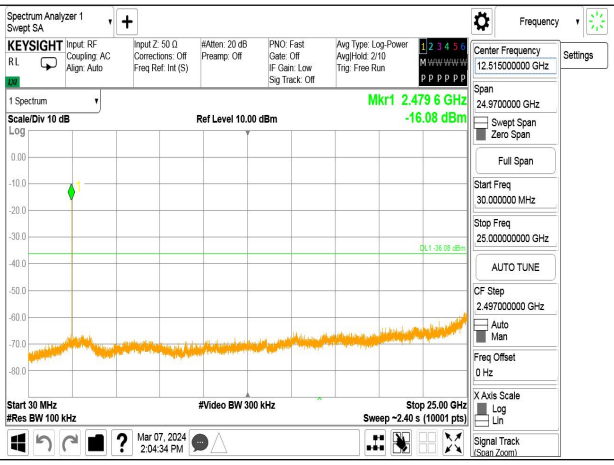
Test Mode: Coded 500K



CH0



CH19



CH39

6 Band Edge measurement

Test Mode: GFSK (LE 1Mbps)

CH0

CH39

Test Mode: GFSK (LE 2Mbps)

CH0

CH39

Test Mode: Coded 125K

CH0

CH39

Test Mode: Coded 500K

CH0

CH39

APPENDIX B – TEST DATA OF RADIATED EMISSION

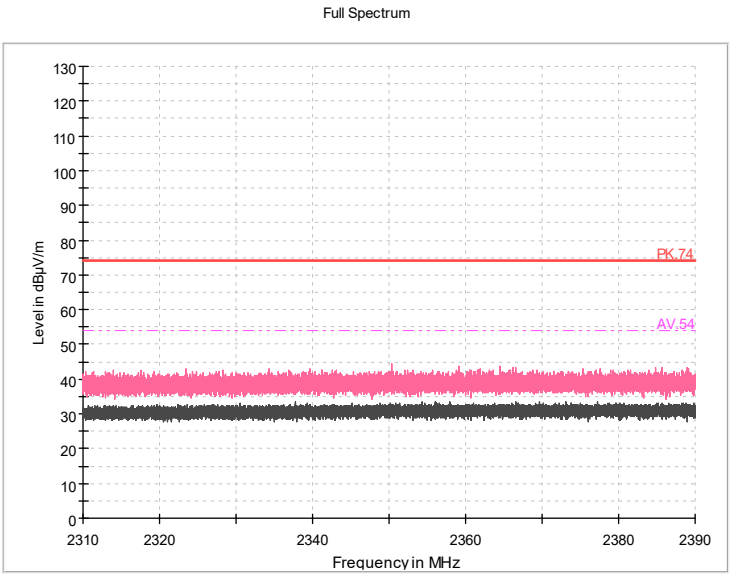
Note：The worst channel results are reflected in the report

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

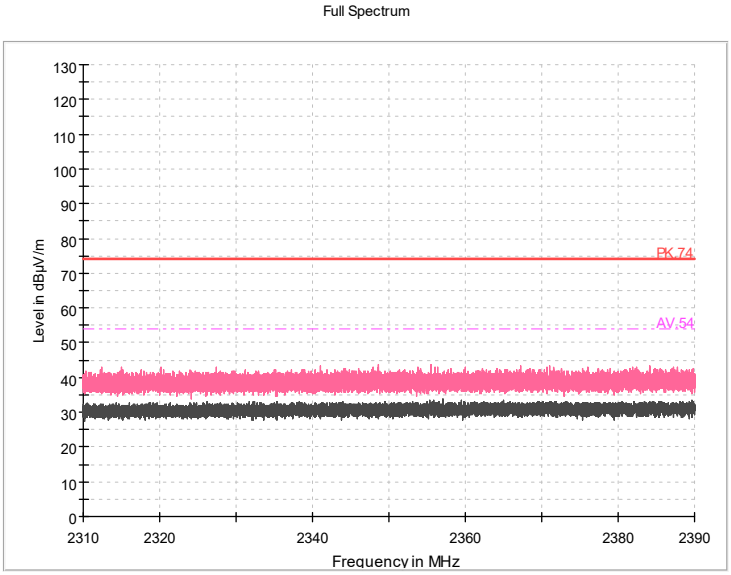
Radiated Emission Band Edge

Sample Calculations

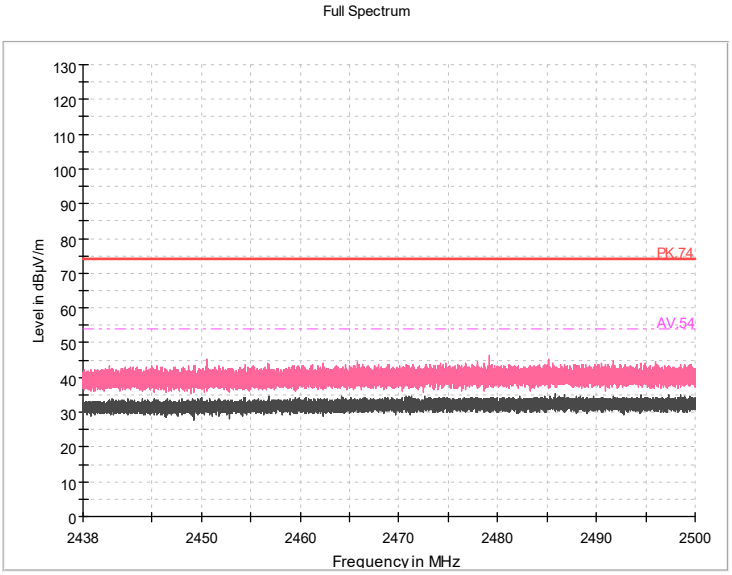
After comparison,the worst case attitude is EUT lay down.



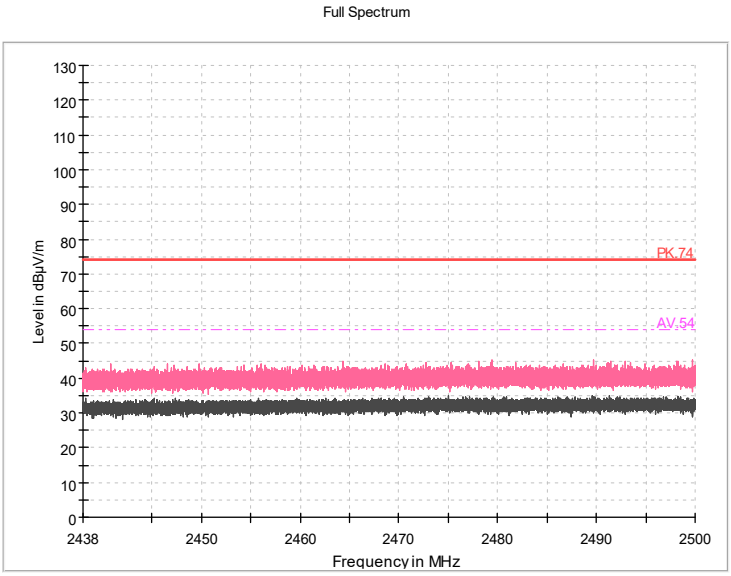
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1Mbps)
Polarity: Vertical



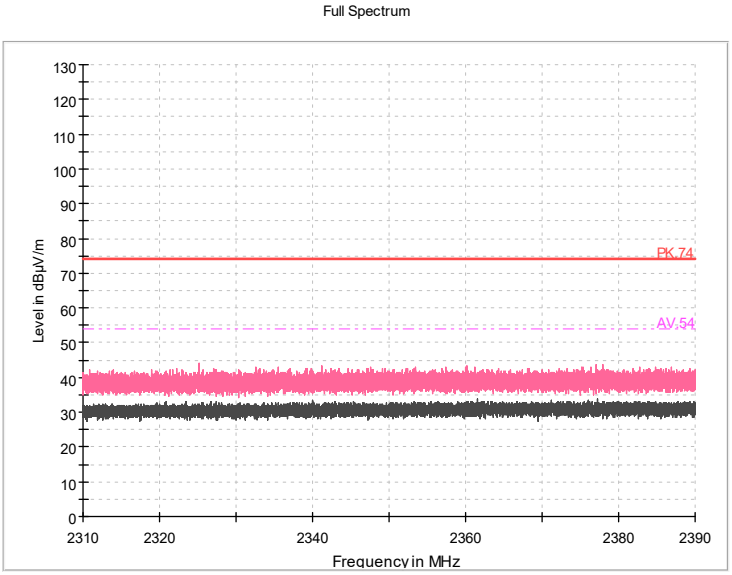
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal



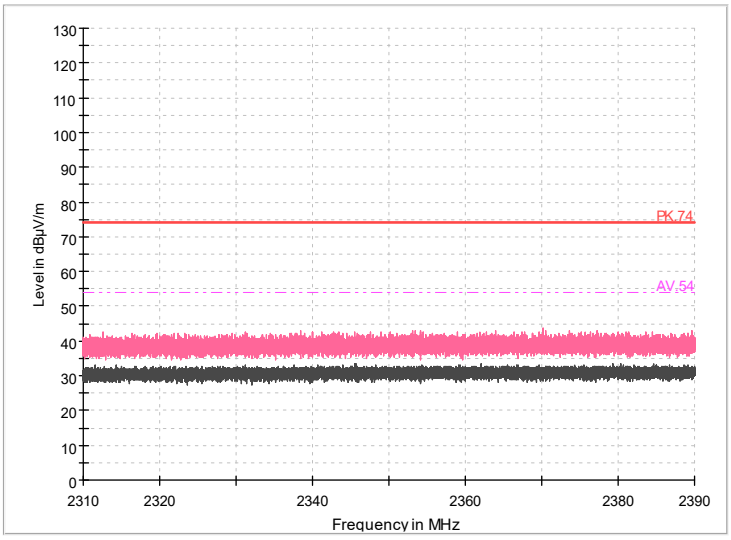
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Vertical



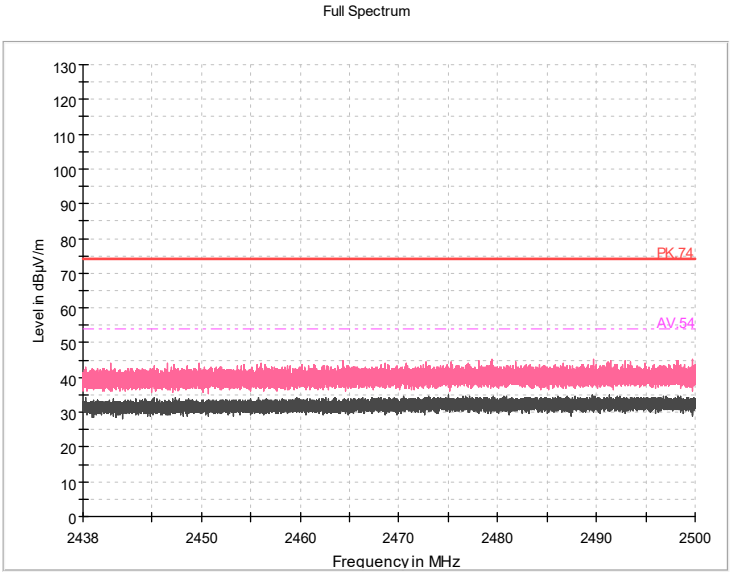
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal



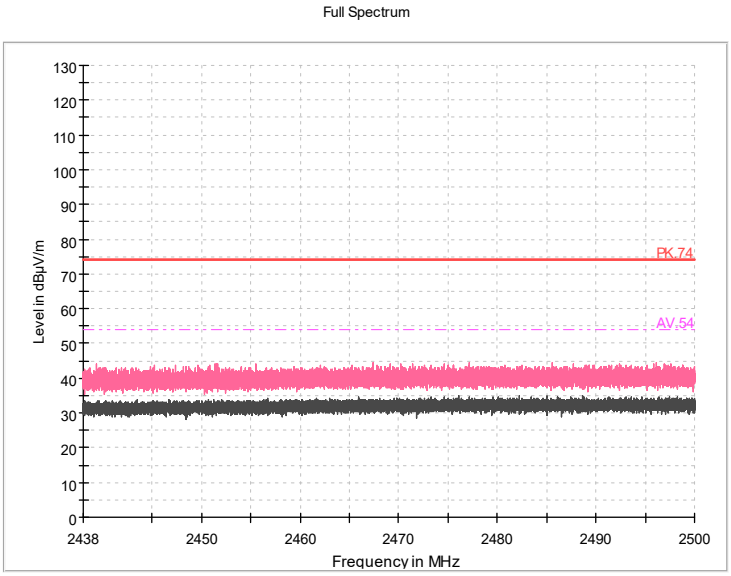
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 2Mbps)
Polarity: Vertical



Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 2Mbps)
Polarity: Horizontal



Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 2Mbps)
Polarity: Vertical



Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 2Mbps)
Polarity: Horizontal

Radiated Emission

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

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: (7.22dBμV/m) = (25.62dBuV) + (-18.4dB/m), the corresponding frequency is 51.3885MHz.

For GFSK (LE 1Mbps)

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
34.006000	14.02	-26	40.02	Vertical	30.00	15.98
38.414333	24.64	-25	49.64	Vertical	30.00	5.36
44.291333	23.34	-24	47.34	Vertical	30.00	6.66
66.407333	12.15	-26	38.15	Vertical	30.00	17.85
76.296333	12.51	-29	41.51	Vertical	30.00	17.49
88.571000	14.66	-27	41.66	Vertical	33.50	18.84

Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
33.382333	13.50	-26	39.50	Vertical	30.00	16.50
35.981667	17.91	-26	43.91	Vertical	30.00	12.09
38.414333	24.68	-25	49.68	Vertical	30.00	5.32
38.418667	24.48	-25	49.48	Vertical	30.00	5.52
44.226667	23.73	-24	47.73	Vertical	30.00	6.27
88.483333	14.91	-27	41.91	Horizontal	33.50	18.59

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.480000	21.49	-26	47.49	Vertical	30.00	8.51
35.984333	18.02	-26	44.02	Vertical	30.00	11.98
38.414333	24.66	-25	49.66	Vertical	30.00	5.34
38.419333	24.42	-25	49.42	Vertical	30.00	5.58
44.226667	23.75	-24	47.75	Vertical	30.00	6.25
88.498667	14.62	-27	41.62	Vertical	33.50	18.88

For GFSK (LE 2Mbps)

Channel No.:0

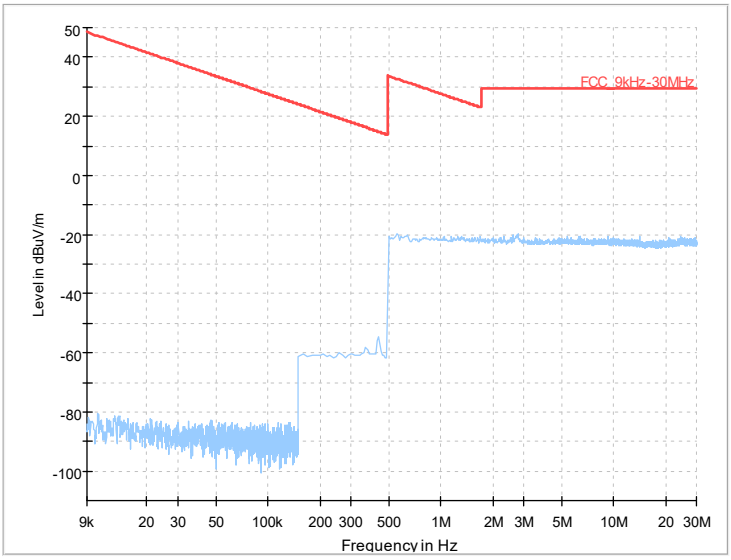
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.477000	13.76	-26	39.76	Vertical	30.00	16.24
38.414333	24.73	-25	49.73	Vertical	30.00	5.27
44.259000	23.63	-24	47.63	Vertical	30.00	6.37
54.023667	13.41	-23	36.41	Vertical	30.00	16.59
76.199333	12.48	-29	41.48	Vertical	30.00	17.52
88.491000	14.50	-27	41.50	Vertical	33.50	19.00

Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.000000	16.60	-26	42.60	Vertical	30.00	13.40
38.387000	24.75	-25	49.75	Vertical	30.00	5.25
38.414333	24.68	-25	49.68	Vertical	30.00	5.32
44.259000	23.73	-24	47.73	Vertical	30.00	6.27
73.991333	12.23	-29	41.23	Vertical	30.00	17.77
88.491000	14.61	-27	41.61	Vertical	33.50	18.89

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
33.497000	15.00	-26	41.00	Vertical	30.00	15.00
35.989333	17.51	-26	43.51	Vertical	30.00	12.49
38.414333	24.59	-25	49.59	Vertical	30.00	5.41
44.137333	23.68	-24	47.68	Vertical	30.00	6.32
918.128667	22.39	-8	30.39	Vertical	36.00	13.61
943.943333	22.53	-8	30.53	Horizontal	36.00	13.47

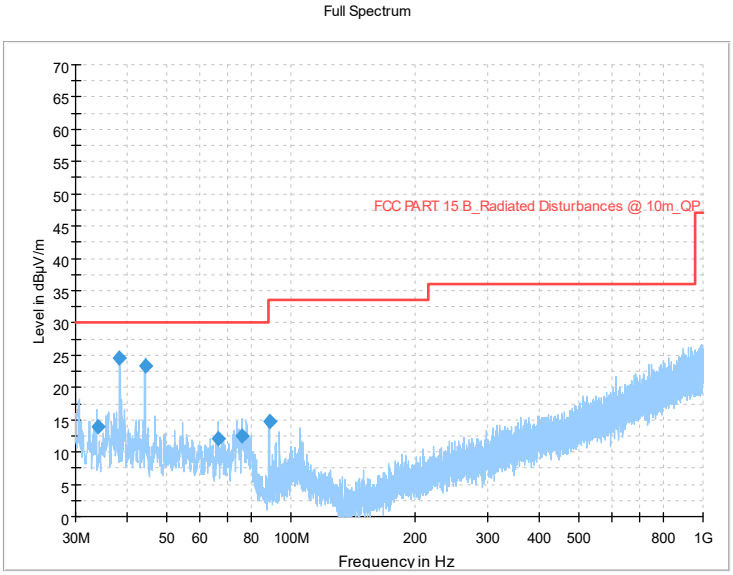


Frequency Range: 9kHz -30MHz

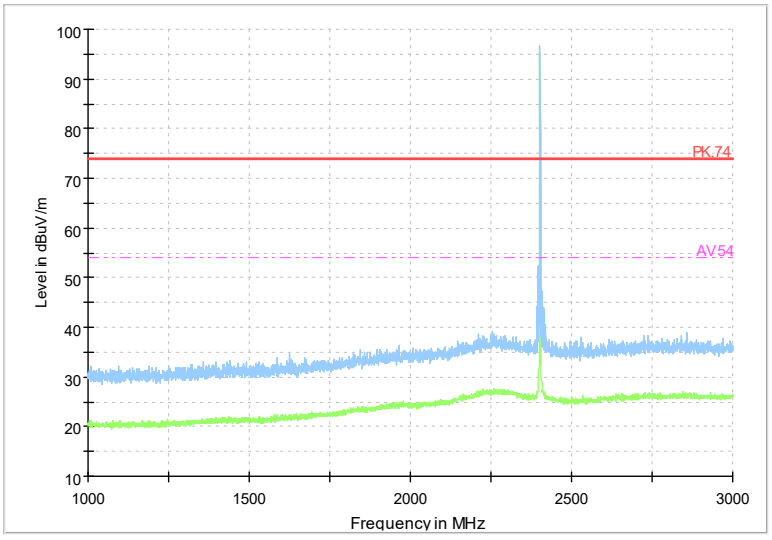
Detector: QP mode

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

Channel No.:0

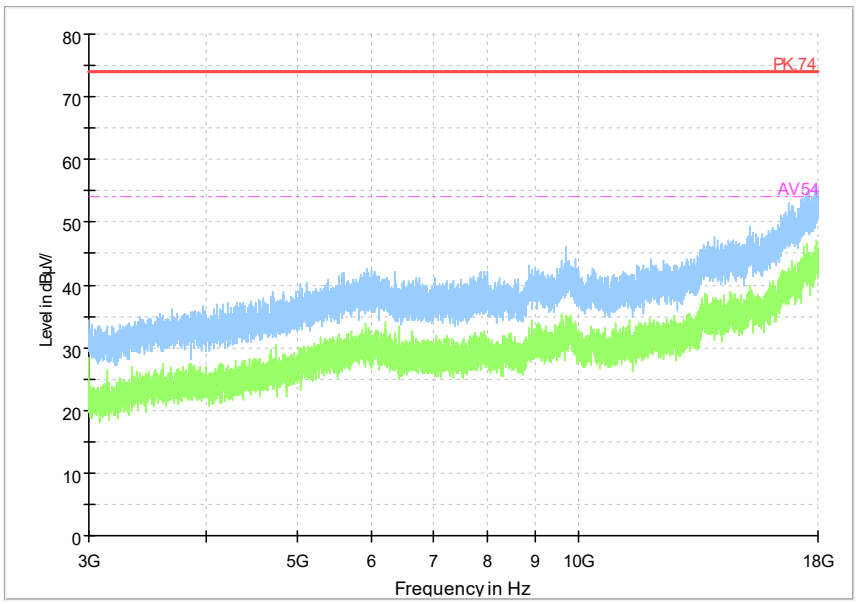


Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

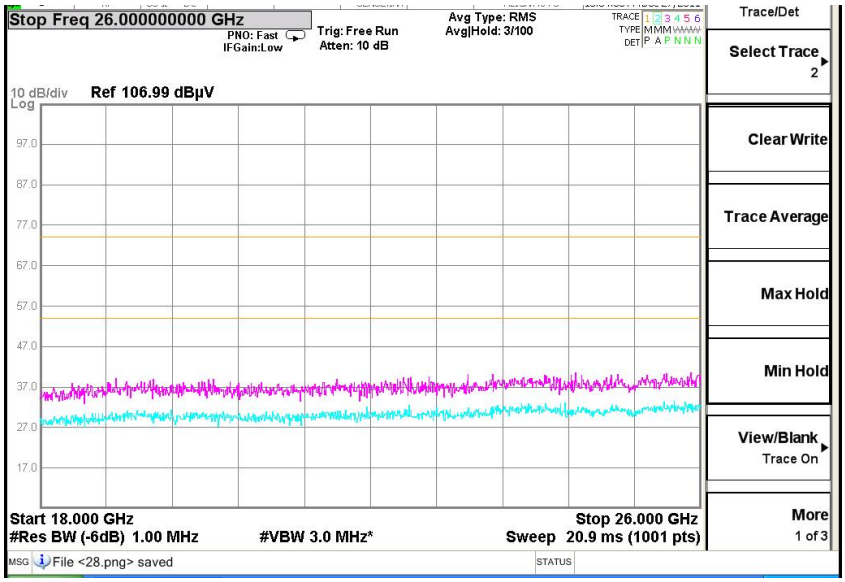


Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Full Spectrum

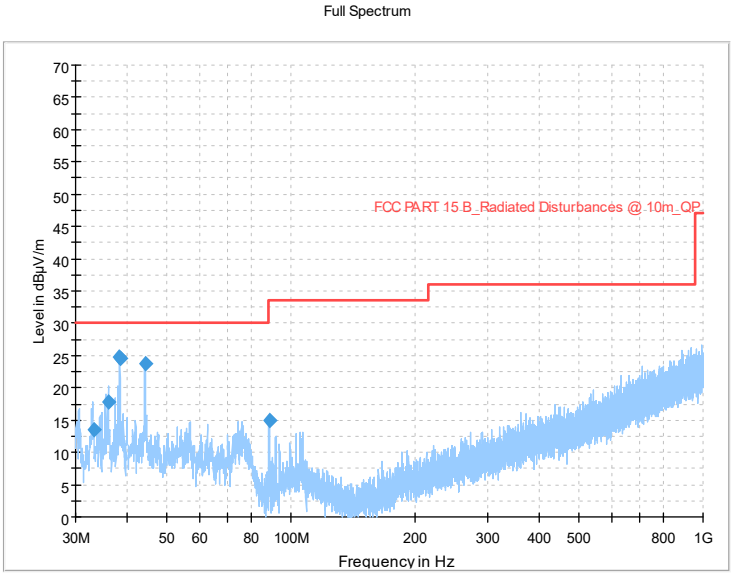


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

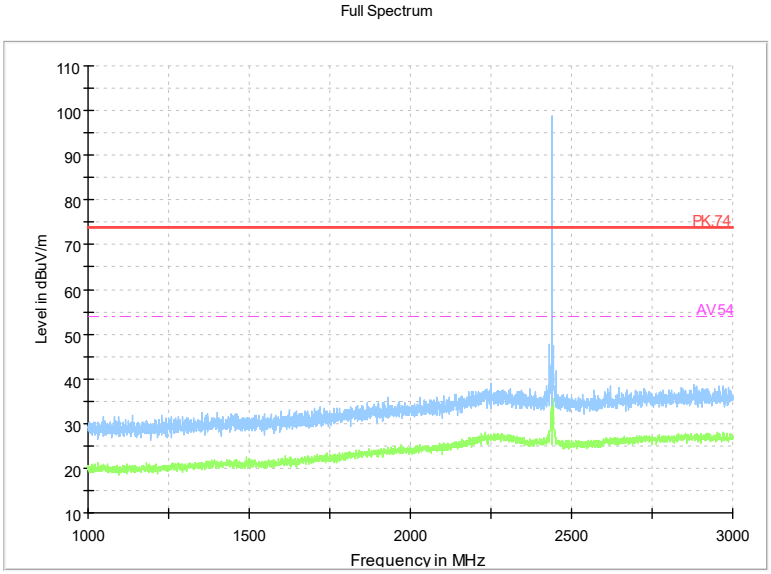


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

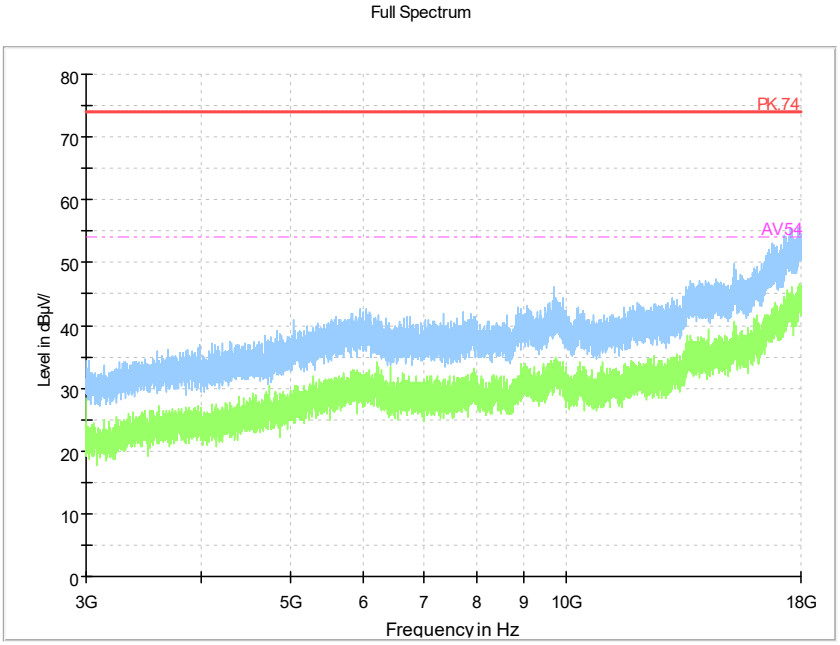
Channel No.:19



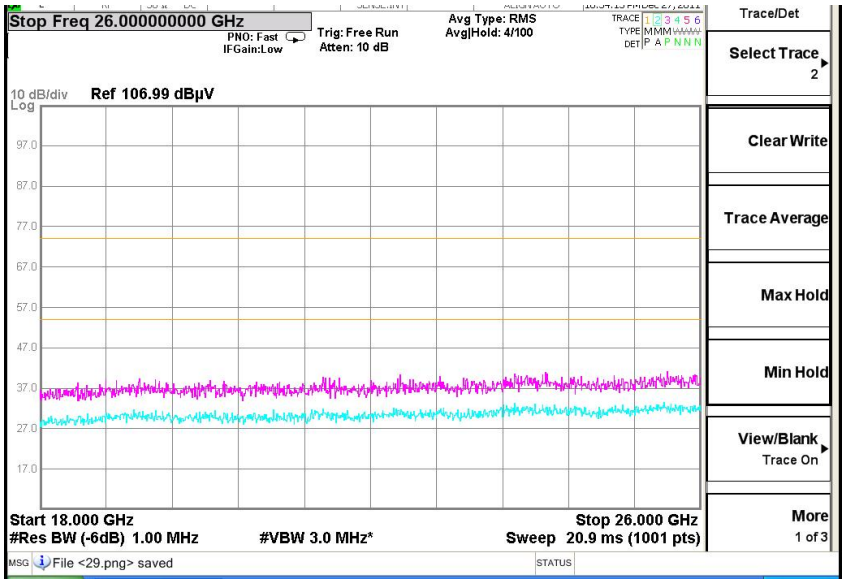
Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

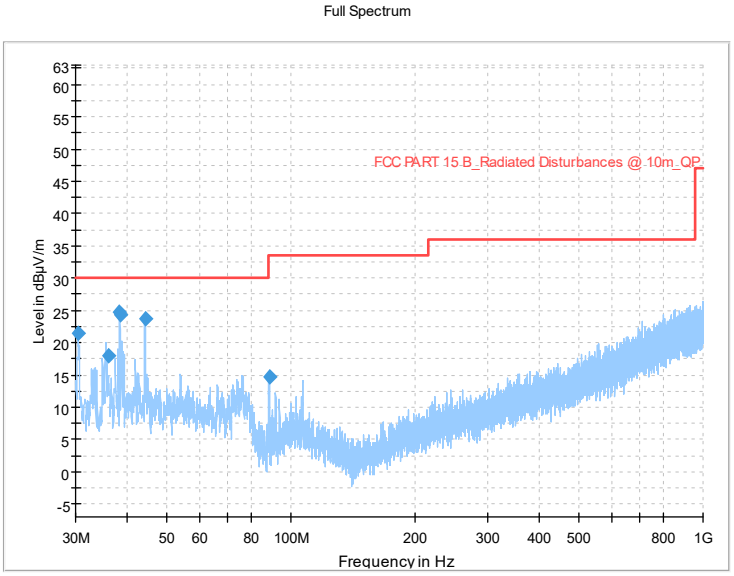


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

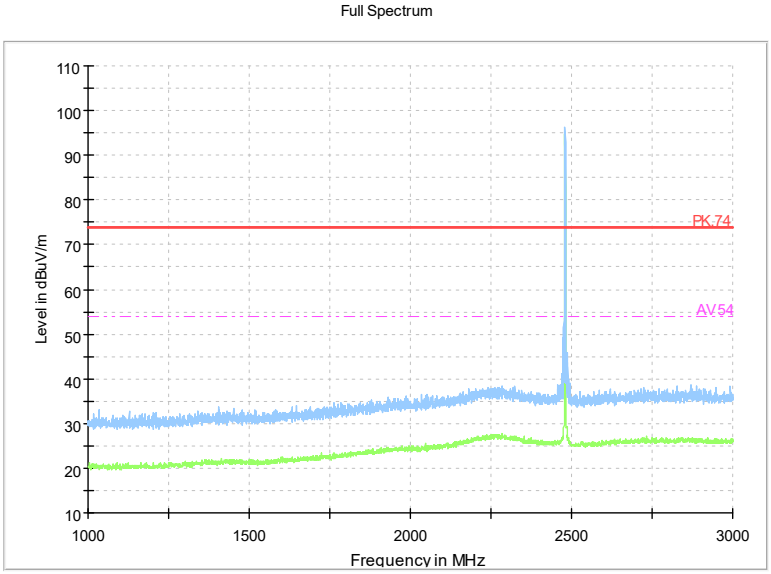


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Channel No.:39



Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)