



### 3.7.4.2 Radiated Emissions (Above 1 GHz)

#### TM 1\_12 V

Tested Frequency [MHz]	Frequency [MHz]	Reading Value [dBuV]	Pol [H/V]	EUT Axis	Detector Mode	DCCF [dB]	T.F [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2 402	2 386.71	46.73	V	X	Peak	0.00	3.40	50.13	74.00	23.87
	2 389.94	34.66	H	X	Average	0.00	3.40	38.06	54.00	15.94
	7 206.56	46.31	H	X	Peak	0.00	8.10	54.41	74.00	19.59
	7 206.56	40.58	H	X	Average	0.00	8.10	48.68	54.00	5.32
2 440	2 131.13	56.19	V	X	Peak	0.00	2.80	58.99	74.00	15.01
	7 320.47	43.36	H	X	Average	0.00	8.00	51.36	54.00	<b>2.64</b>
2 480	2 484.02	47.25	H	X	Peak	0.00	3.90	51.15	74.00	22.85
	2 484.02	35.24	H	X	Average	0.00	3.90	39.14	54.00	14.86
	5 760.00	48.28	H	X	Peak	0.00	4.80	53.08	74.00	20.92
	6 946.41	37.97	V	X	Average	0.00	7.20	45.17	54.00	8.83

#### TM 1\_24 V

Tested Frequency [MHz]	Frequency [MHz]	Reading Value [dBuV]	Pol [H/V]	EUT Axis	Detector Mode	DCCF [dB]	T.F [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2 402	2 389.86	47.28	H	X	Peak	0.00	3.40	50.68	74.00	23.32
	2 389.86	34.41	H	X	Average	0.00	3.40	37.81	54.00	16.19
	2 880.13	48.52	H	X	Peak	0.00	5.20	53.72	74.00	20.28
	4 804.22	41.99	V	X	Average	0.00	3.10	45.09	54.00	8.91
2 440	5 759.53	48.84	H	X	Peak	0.00	4.80	53.64	74.00	20.36
	7 320.47	37.70	H	X	Average	0.00	8.00	45.70	54.00	8.30
2 480	2 484.32	46.92	H	X	Peak	0.00	3.90	50.82	74.00	23.18
	2 539.07	34.38	V	X	Average	0.00	4.40	38.78	54.00	15.22
	7 440.47	45.70	H	X	Peak	0.00	8.40	54.10	74.00	19.90
	7 440.47	38.37	H	X	Average	0.00	8.40	46.77	54.00	<b>7.23</b>



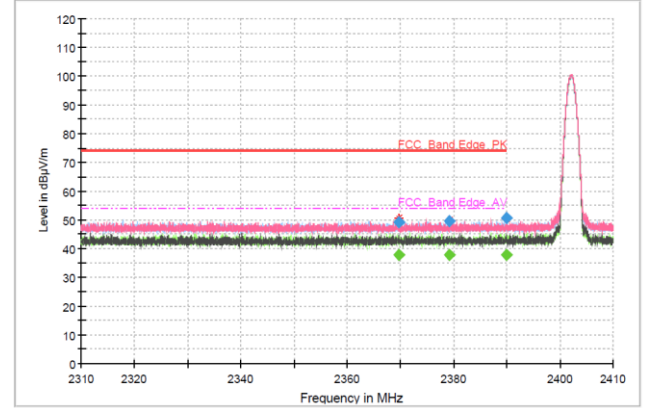
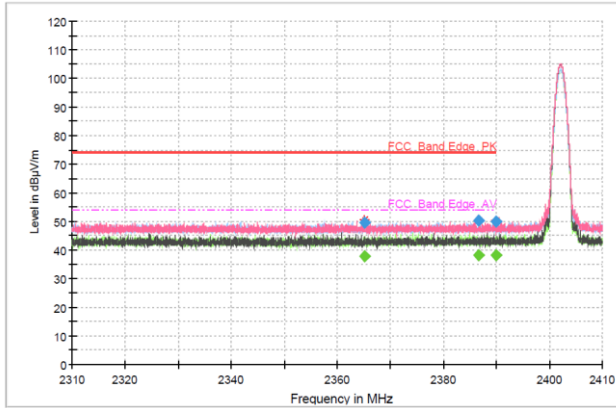
TM 1

12 V

24 V

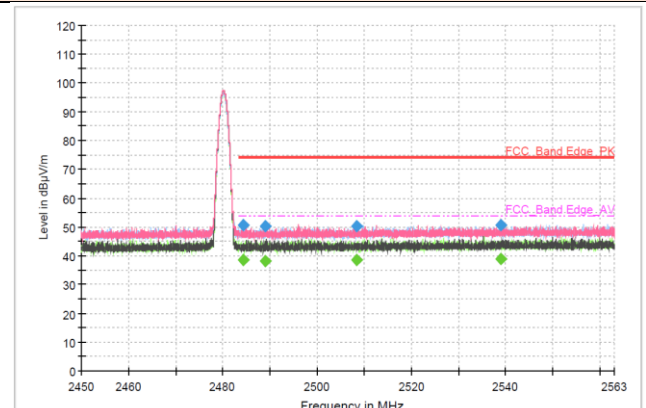
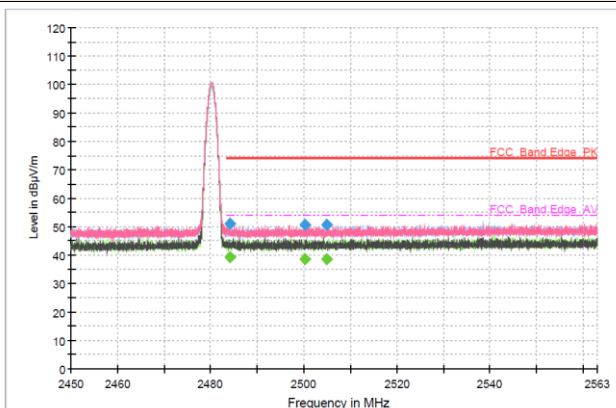
Bandedge\_2 402 MHz

Bandedge\_2 402 MHz



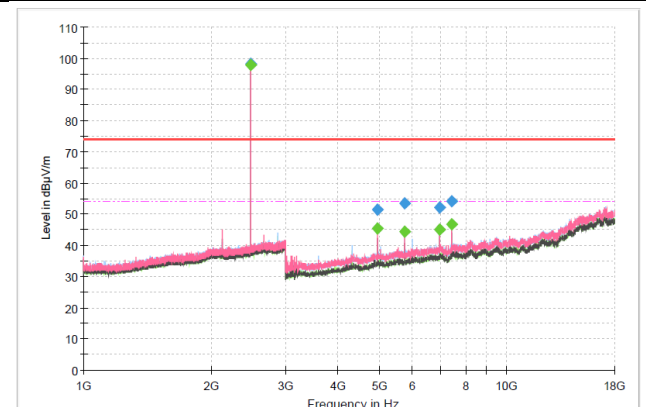
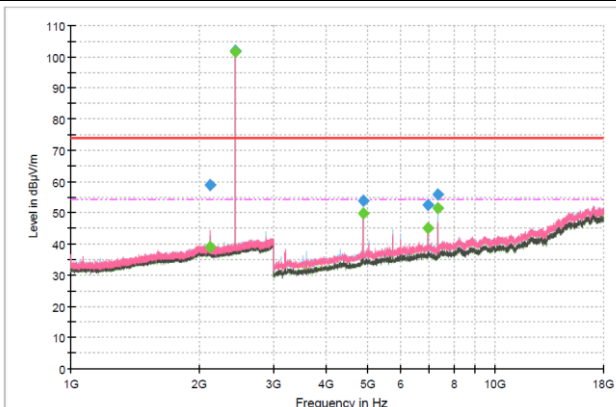
Bandedge\_2 480 MHz

Bandedge\_2 480 MHz



Spurious\_Worst case

Spurious\_Worst case





### TM 2\_12 V

Tested Frequency [MHz]	Frequency [MHz]	Reading Value [dBuV]	Pol [H/V]	EUT Axis	Detector Mode	DCCF [dB]	T.F [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2 402	2 375.80	46.83	H	X	Peak	0.00	3.30	50.13	74.00	23.87
	2 389.69	34.44	H	X	Average	0.00	3.40	37.84	54.00	16.16
	2 880.06	48.68	H	X	Peak	0.00	5.20	53.88	74.00	20.12
	5 760.00	40.57	H	X	Average	0.00	4.80	45.37	54.00	8.63
2 440	5 760.00	49.32	H	X	Peak	0.00	4.80	54.12	74.00	19.88
	5 760.00	41.90	H	X	Average	0.00	4.80	46.70	54.00	<b>7.30</b>
2 480	2 485.73	46.30	H	X	Peak	0.00	3.90	50.20	74.00	23.80
	2 485.73	34.49	H	X	Average	0.00	3.90	38.39	54.00	15.61
	5 760.00	48.36	H	X	Peak	0.00	4.80	53.16	74.00	20.84
	5 760.00	40.12	H	X	Average	0.00	4.80	44.92	54.00	9.08

### TM 2\_24 V

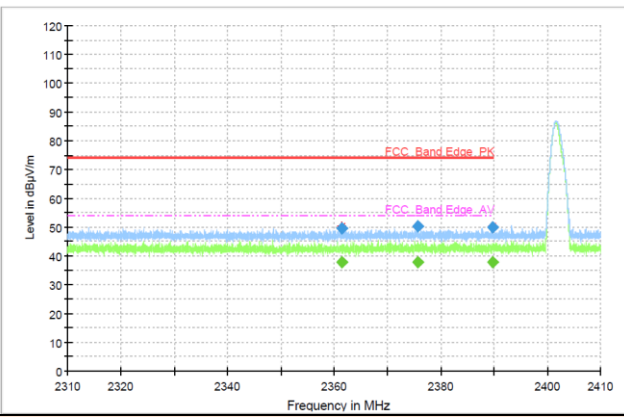
Tested Frequency [MHz]	Frequency [MHz]	Reading Value [dBuV]	Pol [H/V]	EUT Axis	Detector Mode	DCCF [dB]	T.F [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2 402	2 376.19	46.74	H	X	Peak	0.00	3.30	50.04	74.00	23.96
	2 389.80	34.40	H	X	Average	0.00	3.40	37.80	54.00	16.20
	2 879.94	48.39	H	X	Peak	0.00	5.20	53.59	74.00	20.41
	5 759.53	39.67	H	X	Average	0.00	4.80	44.47	54.00	9.53
2 440	5 760.00	48.79	H	X	Peak	0.00	4.80	53.59	74.00	20.41
	5 760.00	40.56	H	X	Average	0.00	4.80	45.36	54.00	<b>8.64</b>
2 480	2 483.72	46.71	H	X	Peak	0.00	3.90	50.61	74.00	23.39
	2 548.36	34.40	H	X	Average	0.00	4.50	38.90	54.00	15.10
	2 880.25	48.53	H	X	Peak	0.00	5.20	53.73	74.00	20.27
	5 760.00	38.77	H	X	Average	0.00	4.80	43.57	54.00	10.43



TM 2

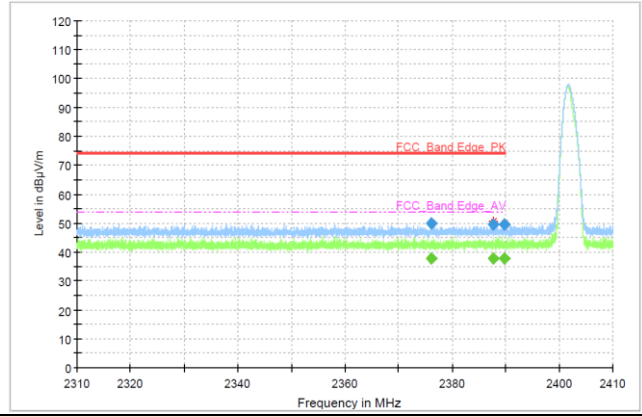
12 V

Bandedge\_2 402 MHz

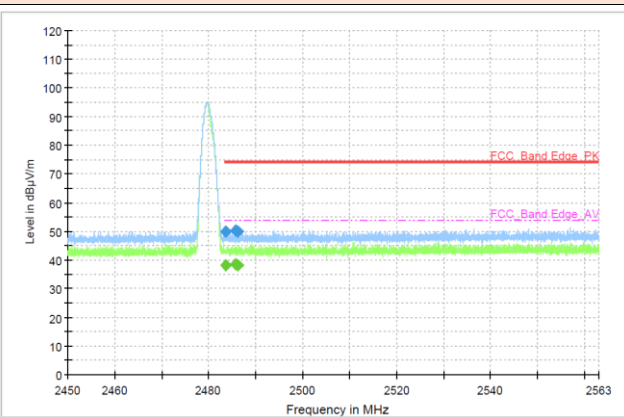


24 V

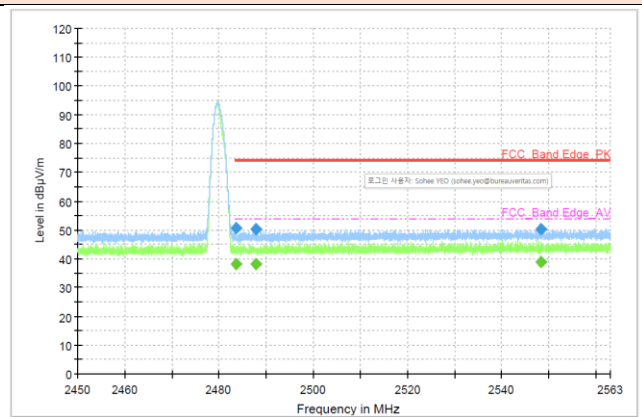
Bandedge\_2 402 MHz



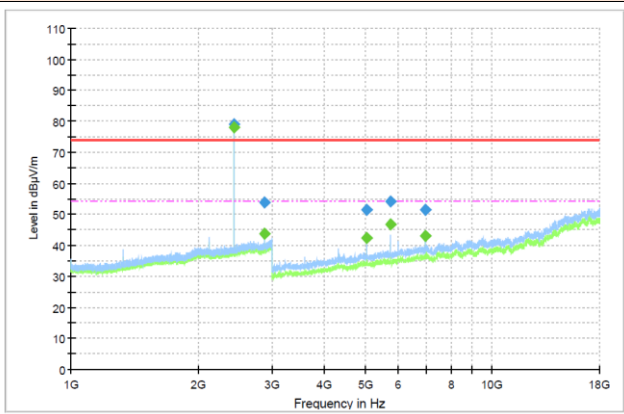
Bandedge\_2 480 MHz



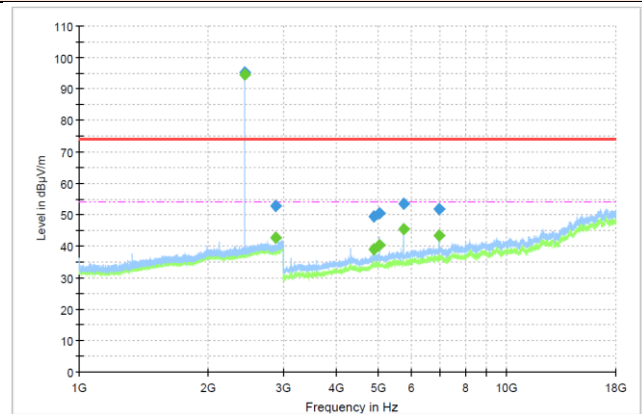
Bandedge\_2 480 MHz



Spurious\_Worst case



Spurious\_Worst case





### TM 3\_12 V

Tested Frequency [MHz]	Frequency [MHz]	Reading Value [dBuV]	Pol [H/V]	EUT Axis	Detector Mode	DCCF [dB]	T.F [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2 402	2 389.85	46.46	H	X	Peak	0.00	3.40	49.86	74.00	24.14
	2 389.85	34.44	H	X	Average	0.00	3.40	37.84	54.00	16.16
	5 760.00	49.07	H	X	Peak	0.00	4.80	53.87	74.00	20.13
	5 760.00	40.16	H	X	Average	0.00	4.80	44.96	54.00	9.04
2 440	2 879.94	48.54	H	X	Peak	0.00	5.20	53.74	74.00	20.26
	5 760.00	40.73	H	X	Average	0.00	4.80	45.53	54.00	<b>8.47</b>
2 480	2 498.39	46.83	H	X	Peak	0.00	4.00	50.83	74.00	23.17
	2 498.39	34.42	H	X	Average	0.00	4.00	38.42	54.00	15.58
	2 879.75	48.06	H	X	Peak	0.00	5.20	53.26	74.00	20.74
	6 946.41	36.71	H	X	Average	0.00	7.20	43.91	54.00	10.09

### TM 3\_24 V

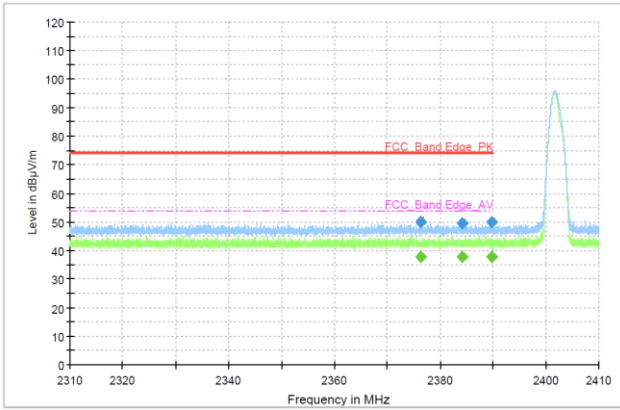
Tested Frequency [MHz]	Frequency [MHz]	Reading Value [dBuV]	Pol [H/V]	EUT Axis	Detector Mode	DCCF [dB]	T.F [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2 402	2 380.65	34.46	H	X	Average	0.00	3.40	37.86	54.00	16.14
	2 385.65	46.95	H	X	Peak	0.00	3.40	50.35	74.00	23.65
	5 988.75	52.72	H	X	Peak	0.00	5.60	58.32	74.00	15.68
	5 988.75	40.06	H	X	Average	0.00	5.60	45.66	54.00	<b>8.34</b>
2 440	2 879.88	47.99	H	X	Peak	0.00	5.20	53.19	74.00	20.81
	5 760.00	39.91	H	X	Average	0.00	4.80	44.71	54.00	9.29
2 480	2 483.88	34.50	H	X	Average	0.00	3.90	38.40	54.00	15.60
	2 495.61	46.60	H	X	Peak	0.00	4.00	50.60	74.00	23.40
	2 880.06	48.82	H	X	Peak	0.00	5.20	54.02	74.00	19.98
	5 760.00	40.07	H	X	Average	0.00	4.80	44.87	54.00	9.13



TM 3

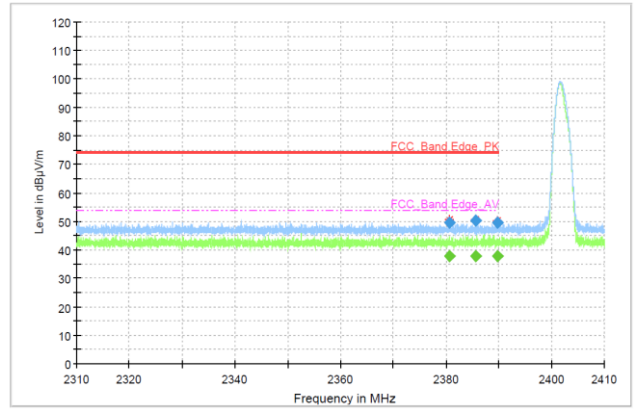
12 V

Bandedge\_2 402 MHz

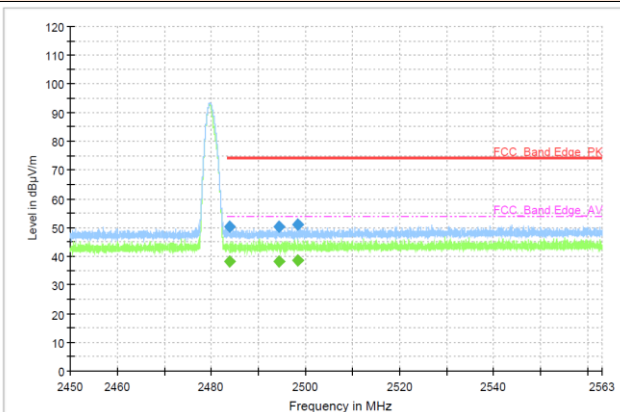


24 V

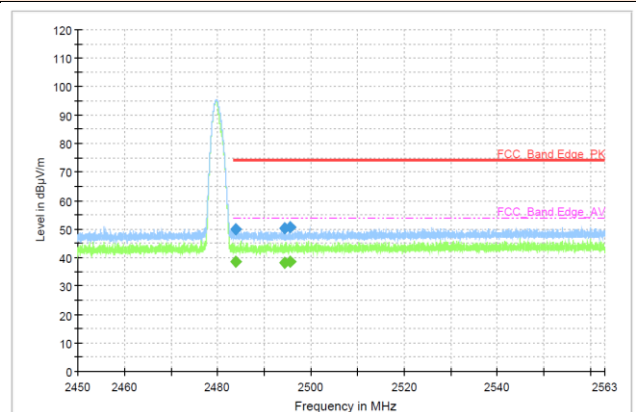
Bandedge\_2 402 MHz



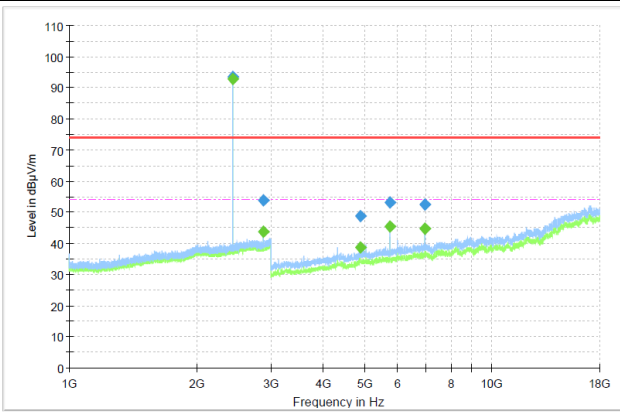
Bandedge\_2 480 MHz



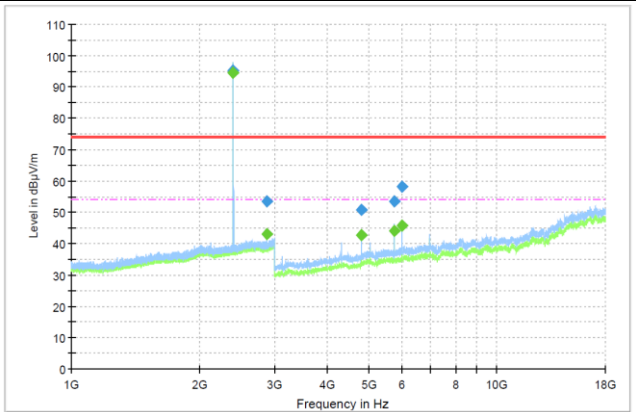
Bandedge\_2 480 MHz



Spurious\_Worst case



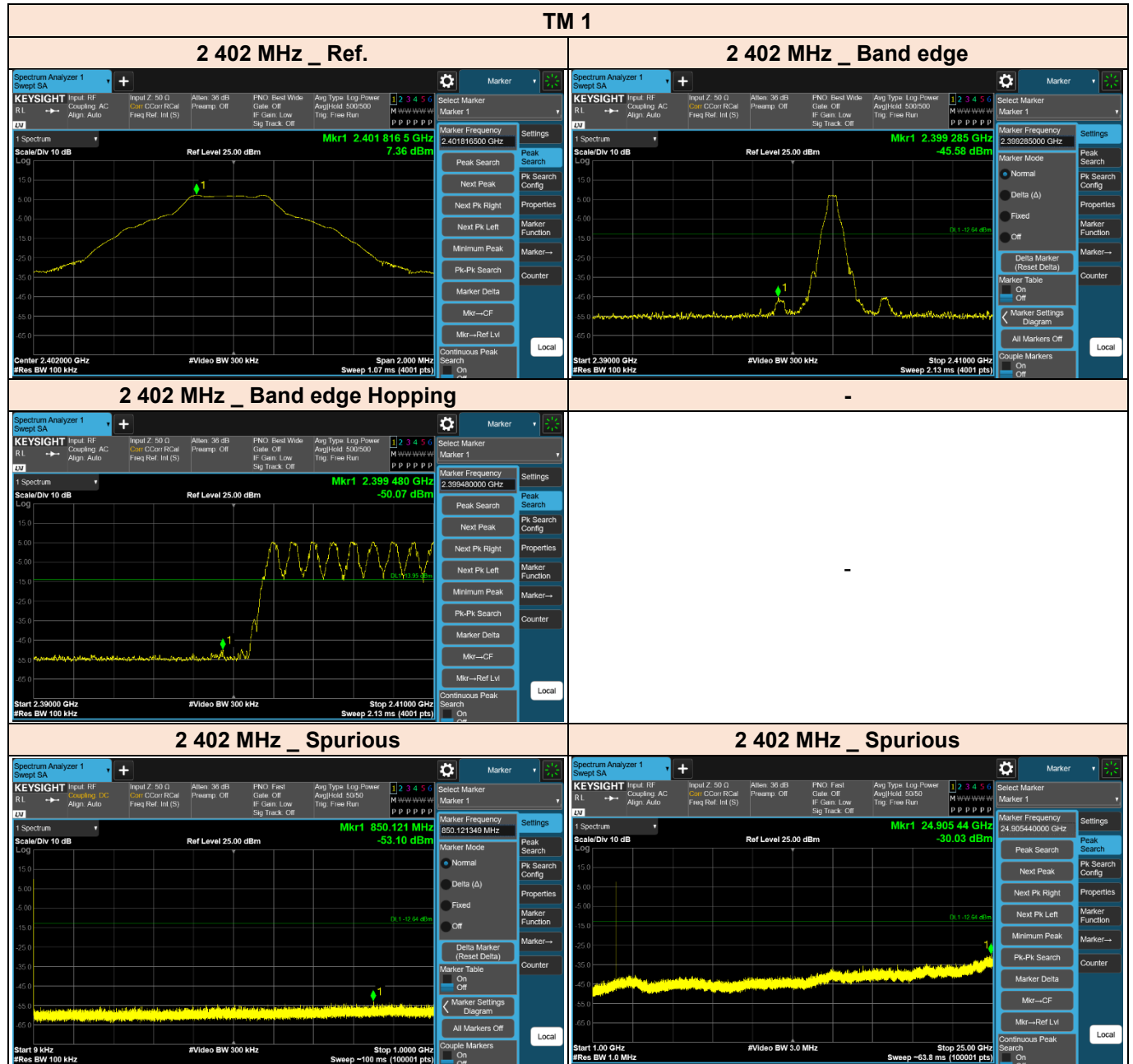
Spurious\_Worst case



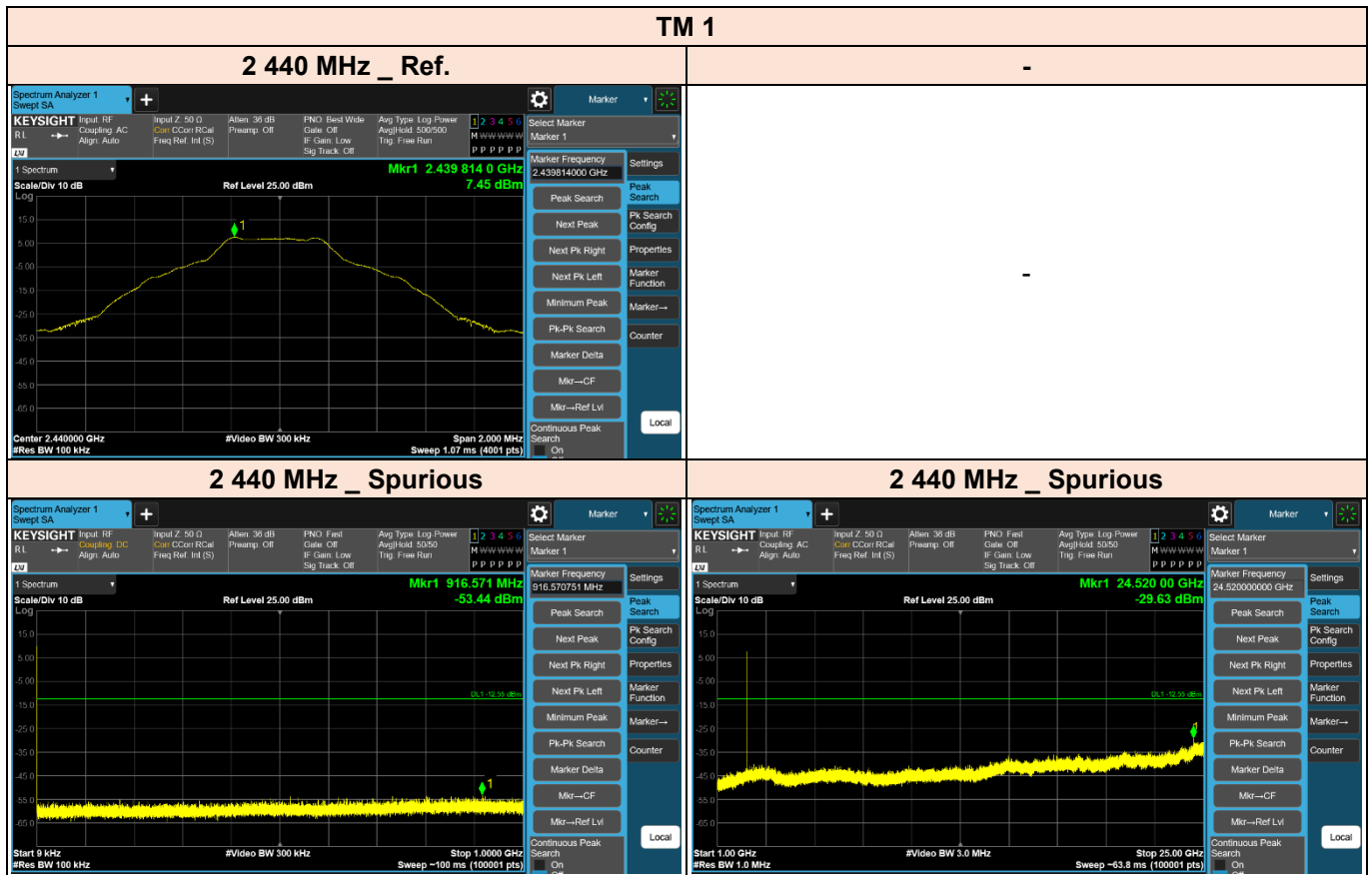


### 3.7.5 Test Result of Conducted Spurious Emission

#### [DC 12 V Spurious Emission]







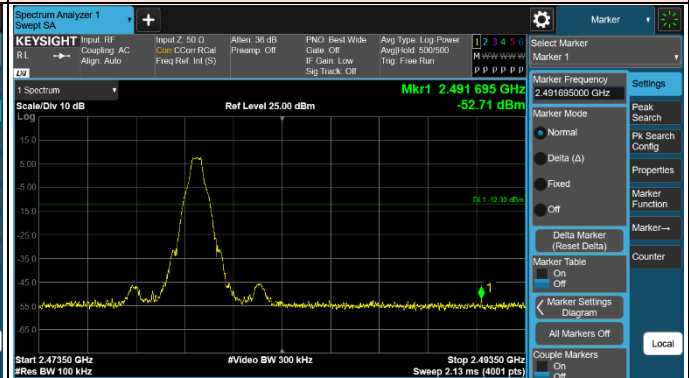
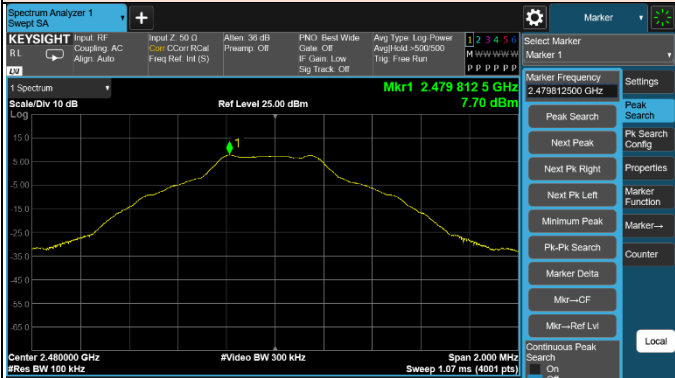




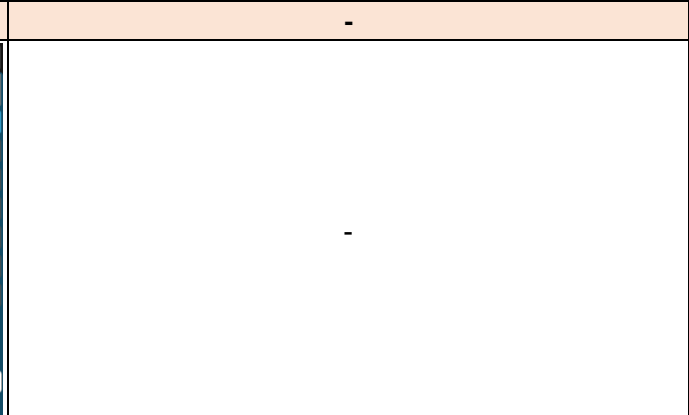
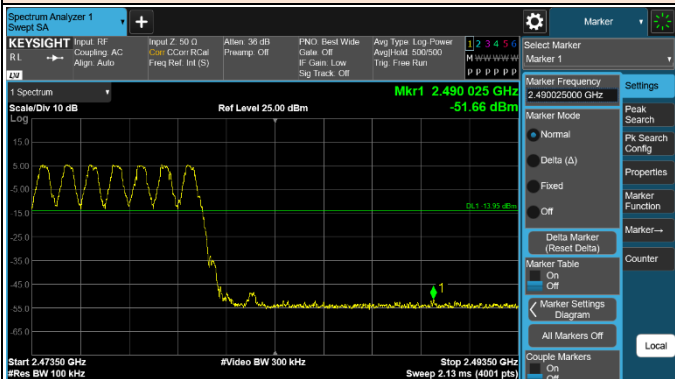
TM 1

2 480 MHz \_ Ref.

2 480 MHz \_ Band edge

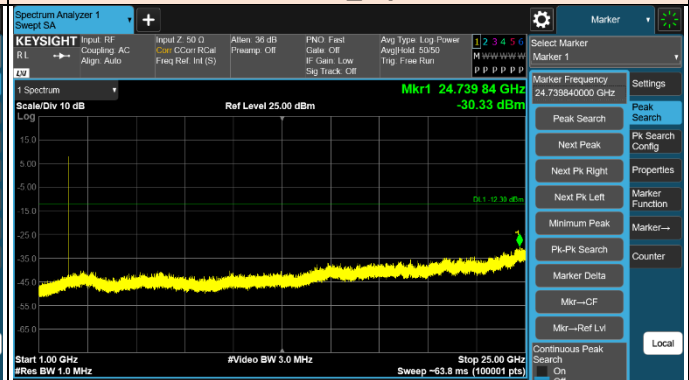
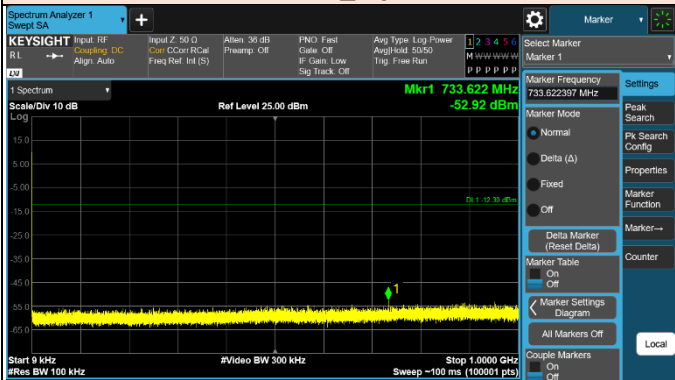


2 480 MHz \_ Band edge Hopping



2 480 MHz \_ Spurious

2 480 MHz \_ Spurious



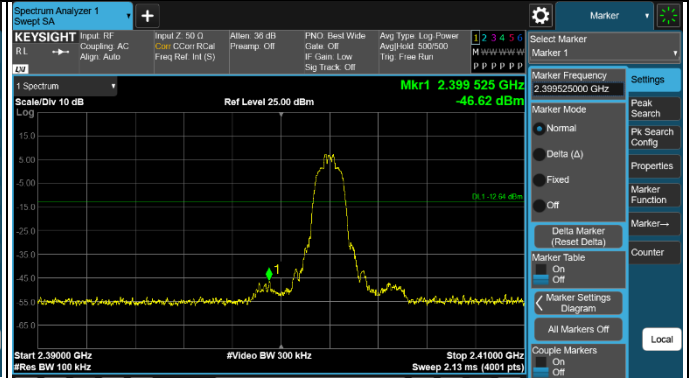


TM 2

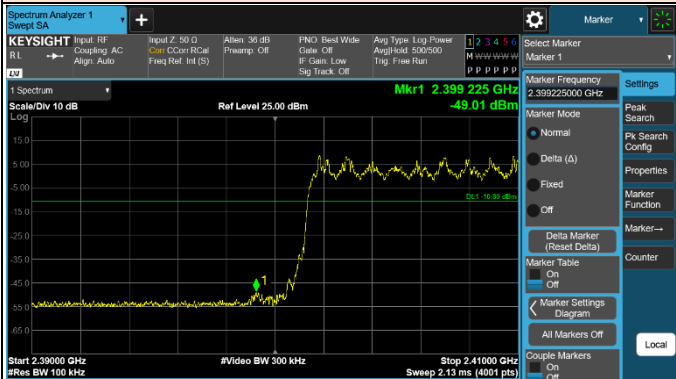
2 402 MHz \_ Ref.



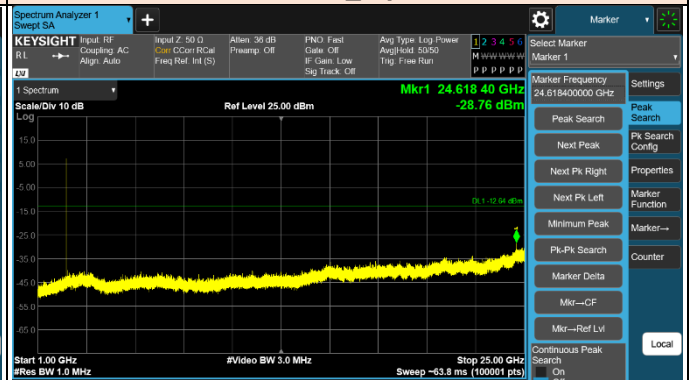
2 402 MHz \_ Band edge



2 402 MHz \_ Band edge Hopping



2 402 MHz \_ Spurious



2 402 MHz \_ Spurious



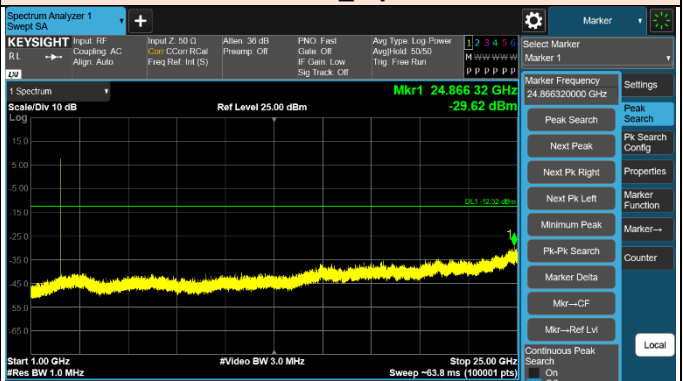
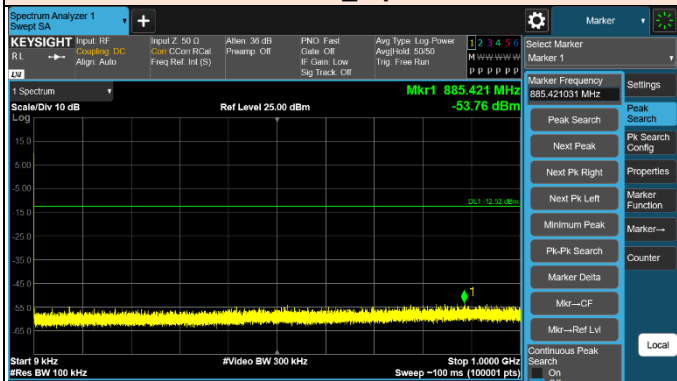


TM 2

2 440 MHz \_ Ref.



2 440 MHz \_ Spurious

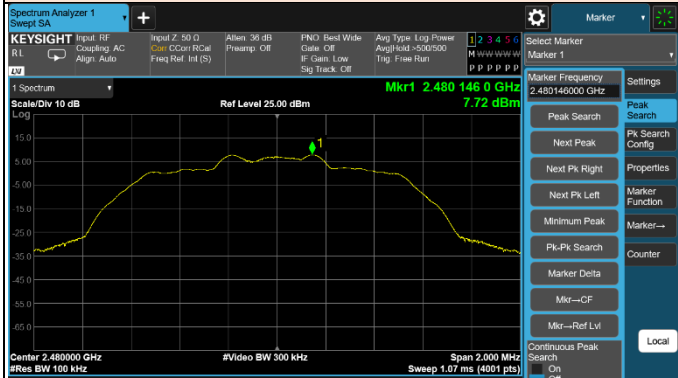




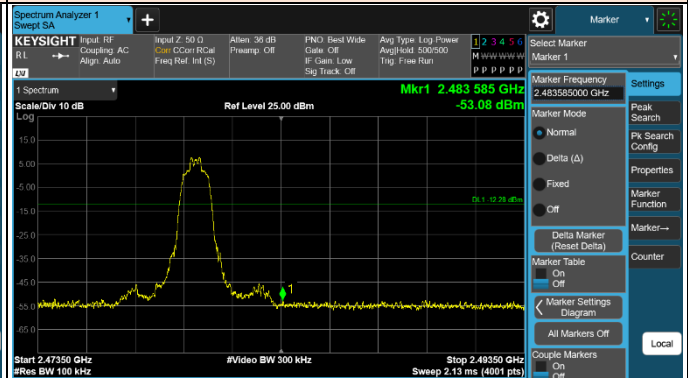
BUREAU VERITAS

### TM 2

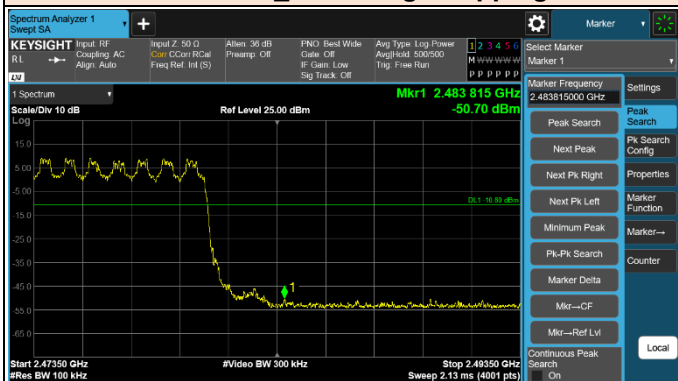
#### 2 480 MHz \_ Ref.



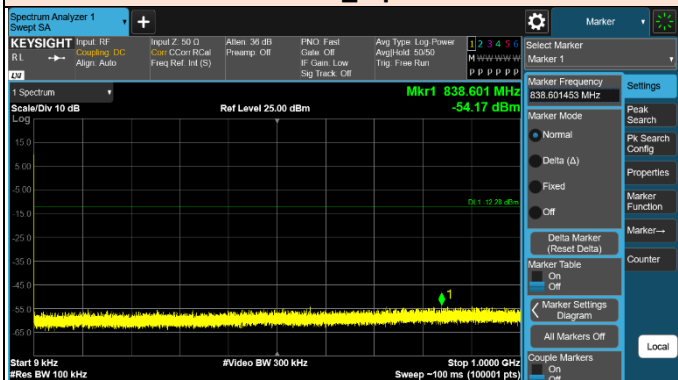
#### 2 480 MHz \_ Band edge



#### 2 480 MHz \_ Band edge Hopping



#### 2 480 MHz \_ Spurious



#### 2 480 MHz \_ Spurious

