



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2480		
Polarization	Vertical						
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):63	
Level (dBUV/m)							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2404				
Polarization	Horizontal								
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):63			
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	39.62	54.00	-14.38	43.41	-3.79	Average	110	224
2	2390.00	52.83	74.00	-21.17	56.62	-3.79	Peak	110	224
3	4808.00	44.51	54.00	-9.49	44.46	0.05	Average	255	15
4	4808.00	51.22	74.00	-22.78	51.17	0.05	Peak	255	15
5	12020.00	43.14	54.00	-10.86	35.37	7.77	Average	100	39
6	12020.00	55.84	74.00	-18.16	48.07	7.77	Peak	100	39

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2404	
Polarization	Vertical					
Test By :Brad Wu						
Temperature(°C):23						
Humidity(%):63						
Level (dBUV/m)						



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63									
Level (dBUV/m) Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.19	54.00	-15.81	41.98	-3.79	Average	107	239
2	2390.00	51.98	74.00	-22.02	55.77	-3.79	Peak	107	239
3	2483.50	38.12	54.00	-15.88	42.21	-4.09	Average	107	239
4	2483.50	51.32	74.00	-22.68	55.41	-4.09	Peak	107	239
5	4880.00	44.85	54.00	-9.15	44.75	0.10	Average	244	356
6	4880.00	51.62	74.00	-22.38	51.52	0.10	Peak	244	356
7	7320.00	44.29	54.00	-9.71	38.38	5.91	Average	331	302
8	7320.00	55.36	74.00	-18.64	49.45	5.91	Peak	331	302

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2440	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):23 Humidity(%):63						
Level (dBuV/m) </						



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2478		
Polarization	Horizontal						
Test By		:Brad Wu		Temperature(°C):23		Humidity(%):63	
Level (dBUV/m) </							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2478				
Polarization	Vertical								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63									
Level (dBUV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBUV/m	dBUV/m	dB	dBuV	dB/m		cm	deg
1	2483.50	45.62	54.00	-8.38	49.71	-4.09	Average	304	289
2	2483.50	63.24	74.00	-10.76	67.33	-4.09	Peak	304	289
3	4956.00	40.11	54.00	-13.89	39.96	0.15	Average	100	351
4	4956.00	48.42	74.00	-25.58	48.27	0.15	Peak	100	351
5	7434.00	40.84	54.00	-13.16	34.88	5.96	Average	233	38
6	7434.00	52.66	74.00	-21.34	46.70	5.96	Peak	233	38
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).									



Test configuration 3: Laird part number: 453-00148, 20dBm, DTS

Unwanted Emissions (Below 1GHz)

Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2402		
Polarization	Horizontal						
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):63	
Level (dBUV/m) <							



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m)			



Unwanted Emissions (Above 1GHz)

Modulation	BT-LE (125kbps)	Test Freq. (MHz)	2402						
Polarization	Horizontal								
Test By :Brad Wu Temperature(°C):23 Humidity(%):63									
Level (dBUV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	3688.00	29.65	54.00	-24.35	31.34	-1.69	Average	100	75
2	3688.00	42.18	74.00	-31.82	43.87	-1.69	Peak	100	75
3	4804.00	40.25	54.00	-13.75	40.22	0.03	Average	100	165
4	4804.00	49.05	74.00	-24.95	49.02	0.03	Peak	100	165
5	12010.00	43.04	54.00	-10.96	35.28	7.76	Average	100	51
6	12010.00	56.08	74.00	-17.92	48.32	7.76	Peak	100	51
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).									



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2402	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):23 Humidity(%):63						
Level (dBUV/m)						



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2440				
Polarization	Horizontal								
Test By :Brad Wu			Temperature(°C):23			Humidity(%):63			
Level (dBuV/m)									



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2440				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):23			Humidity(%):63			
Level (dBuV/m) </									



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2478				
Polarization	Horizontal								
Test By :Paul Lin			Temperature(°C):23			Humidity(%):63			
Level (dBuV/m) </									



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2478																																																																							
Polarization	Vertical																																																																											
Test By :Paul Lin Temperature(°C):23 Humidity(%):63																																																																												
<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>4956.00</td><td>39.37</td><td>54.00</td><td>-14.63</td><td>39.22</td><td>0.15</td><td>Average</td><td>100</td><td>112</td></tr><tr><td>2</td><td>4956.00</td><td>48.71</td><td>74.00</td><td>-25.29</td><td>48.56</td><td>0.15</td><td>Peak</td><td>100</td><td>112</td></tr><tr><td>3</td><td>7434.00</td><td>38.27</td><td>54.00</td><td>-15.73</td><td>32.31</td><td>5.96</td><td>Average</td><td>100</td><td>31</td></tr><tr><td>4</td><td>7434.00</td><td>51.45</td><td>74.00</td><td>-22.55</td><td>45.49</td><td>5.96</td><td>Peak</td><td>100</td><td>31</td></tr><tr><td>5</td><td>12390.00</td><td>42.75</td><td>54.00</td><td>-11.25</td><td>35.67</td><td>7.08</td><td>Average</td><td>100</td><td>78</td></tr><tr><td>6</td><td>12390.00</td><td>55.34</td><td>74.00</td><td>-18.66</td><td>48.26</td><td>7.08</td><td>Peak</td><td>100</td><td>78</td></tr></table>								Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	4956.00	39.37	54.00	-14.63	39.22	0.15	Average	100	112	2	4956.00	48.71	74.00	-25.29	48.56	0.15	Peak	100	112	3	7434.00	38.27	54.00	-15.73	32.31	5.96	Average	100	31	4	7434.00	51.45	74.00	-22.55	45.49	5.96	Peak	100	31	5	12390.00	42.75	54.00	-11.25	35.67	7.08	Average	100	78	6	12390.00	55.34	74.00	-18.66	48.26	7.08	Peak	100	78
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																			
1	4956.00	39.37	54.00	-14.63	39.22	0.15	Average	100	112																																																																			
2	4956.00	48.71	74.00	-25.29	48.56	0.15	Peak	100	112																																																																			
3	7434.00	38.27	54.00	-15.73	32.31	5.96	Average	100	31																																																																			
4	7434.00	51.45	74.00	-22.55	45.49	5.96	Peak	100	31																																																																			
5	12390.00	42.75	54.00	-11.25	35.67	7.08	Average	100	78																																																																			
6	12390.00	55.34	74.00	-18.66	48.26	7.08	Peak	100	78																																																																			
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																												



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2480				
Polarization	Horizontal								
Test By :Brad Wu			Temperature(°C):23			Humidity(%):63			
Level (dBuV/m) <									



Modulation	BT-LE (125kbps)		Test Freq. (MHz)		2480	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):23 Humidity(%):63						
Level (dBuV/m)						



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2402	
Polarization	Horizontal					
Test By :Brad Wu Temperature(°C):24 Humidity(%):63						
Level (dBUV/m)						



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2402				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):63			
Level (dBuV/m) </									



Modulation	BT-LE (500kbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2440	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):24 Humidity(%):63						
Level (dBuV/m) <						



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2478	
Polarization	Horizontal					
Test By :Paul Lin Temperature(°C):24 Humidity(%):63						
Level (dBuV/m) </						



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2478	
Polarization	Vertical					
Test By :Paul Lin Temperature(°C):24 Humidity(%):63						
Level (dBuV/m)						



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2480		
Polarization	Horizontal						
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):63	
Level (dBuV/m) <							



Modulation	BT-LE (500kbps)		Test Freq. (MHz)		2480				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):63			
Level (dBuV/m)									



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		
Test By :Brad Wu Temperature(°C):24 Humidity(%):63			
Level (dBUV/m) </			



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2402	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):24 Humidity(%):63						
Level (dBuV/m) </						



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2440				
Polarization	Horizontal								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):63			
Level (dBuV/m)									



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2440		
Polarization	Vertical						
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):63	
Level (dBuV/m)							



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2478		
Polarization	Horizontal						
Test By		:Paul Lin		Temperature(°C):24		Humidity(%):63	
Level (dBuV/m) <							



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2478		
Polarization	Vertical						
Test By		:Paul Lin		Temperature(°C):24		Humidity(%):63	
Level (dBuV/m)							



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2480				
Polarization	Horizontal								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):63			
Level (dBuV/m) <									



Modulation	BT-LE (1Mbps)		Test Freq. (MHz)		2480				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):63			
Level (dBuV/m)									



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2404		
Polarization	Horizontal						
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):63	
Level (dBUV/m) </							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2404				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):63			
Level (dBUV/m) </									



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2440						
Polarization	Horizontal										
Test By :Brad Wu							Temperature(°C):24		Humidity(%):63		
Level (dBUV/m)											



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2440				
Polarization	Vertical								
Test By :Brad Wu			Temperature(°C):24			Humidity(%):63			
Level (dBuV/m)									



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2478		
Polarization	Horizontal						
Test By		:Brad Wu		Temperature(°C):24		Humidity(%):63	
Level (dBuV/m) </							



Modulation	BT-LE (2Mbps)		Test Freq. (MHz)		2478	
Polarization	Vertical					
Test By :Brad Wu Temperature(°C):24 Humidity(%):63						
Level (dBuV/m)						

**3) Configuration 3: Laird part number: 453-00148, 20dBm, RF Trace Pad (External antenna)****Transmitter Conducted Unwanted Emissions (30MHz ~ 1GHz)****Summary**

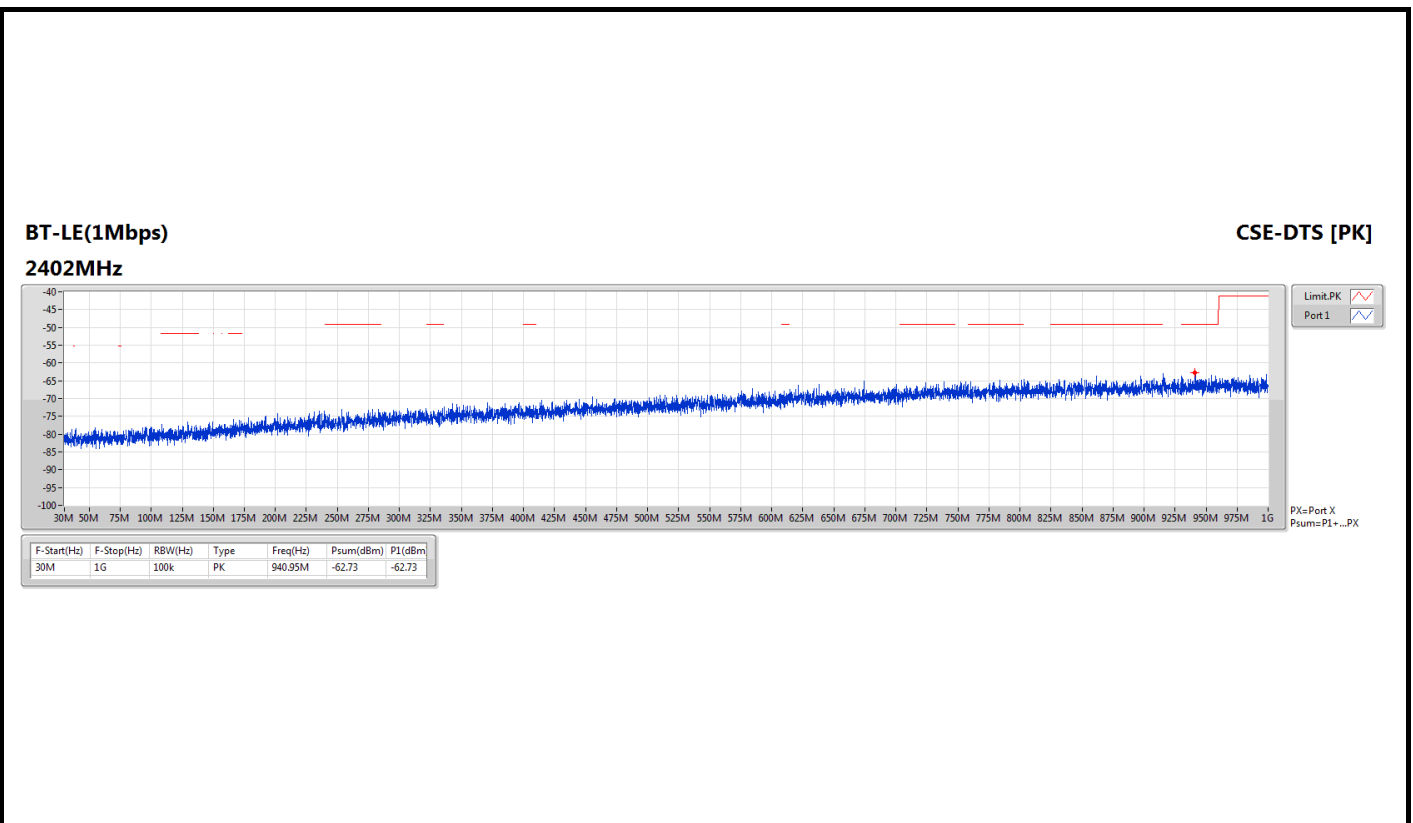
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	GRF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(Symbol rate 1Mbps)	Pass	30M	1G	PK	940.95M	2.00	-62.73	4.7	-56.03	-49.20	-6.83

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	GRF (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-LE(Symbol rate 1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	30M	1G	PK	940.95M	2.00	-62.73	4.7	-56.03	-49.20	-6.83

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



3) Configuration 3: Laird part number: 453-00148, 20dBm, RF Trace Pad (External antenna)

Transmitter Conducted Unwanted Emissions (1GHz ~ 3.1GHz)

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(Coding rate125kbps)	Pass	2.4835G	2.5G	AV	2.48359G	2.00	-48.08	-46.08	-41.20	-4.88
BT-LE(Coding rate 500kbps)	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-44.21	-42.21	-41.20	-1.01
BT-LE(Symbol rate 1Mbps)	Pass	2.4835G	2.5G	AV	2.4835G	2.00	-44.28	-42.28	-41.20	-1.08
BT-LE(Symbol rate 2Mbps)	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-44.32	-42.32	-41.20	-1.12

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-LE(Coding rate125kbps)										
2402MHz	Pass	1G	2.31G	AV	2.1695G	2.00	-64.04	-62.04	-41.20	-20.84
2402MHz	Pass	2.31G	2.39G	AV	2.39G	2.00	-61.16	-59.16	-41.20	-17.96
2402MHz	Pass	2.4835G	2.5G	AV	2.48624G	2.00	-63.51	-61.51	-41.20	-20.31
2402MHz	Pass	2.5G	3.1G	AV	2.8234G	2.00	-62.83	-60.83	-41.20	-19.63
2402MHz	Pass	1G	2.31G	PK	2.28642G	2.00	-52.87	-50.87	-21.20	-29.67
2402MHz	Pass	2.31G	2.39G	PK	2.3892G	2.00	-49.75	-47.75	-21.20	-26.55
2402MHz	Pass	2.4835G	2.5G	PK	2.49915G	2.00	-51.11	-49.11	-21.20	-27.91
2402MHz	Pass	2.5G	3.1G	PK	2.8399G	2.00	-51.22	-49.22	-21.20	-28.02
2440MHz	Pass	1G	2.31G	AV	2.14379G	2.00	-63.87	-61.87	-41.20	-20.67
2440MHz	Pass	2.31G	2.39G	AV	2.3326G	2.00	-63.91	-61.91	-41.20	-20.71
2440MHz	Pass	2.4835G	2.5G	AV	2.48453G	2.00	-63.31	-61.31	-41.20	-20.11
2440MHz	Pass	2.5G	3.1G	AV	2.84515G	2.00	-62.68	-60.68	-41.20	-19.48
2440MHz	Pass	1G	2.31G	PK	2.14298G	2.00	-53.34	-51.34	-21.20	-30.14
2440MHz	Pass	2.31G	2.39G	PK	2.38936G	2.00	-52.23	-50.23	-21.20	-29.03
2440MHz	Pass	2.4835G	2.5G	PK	2.4854G	2.00	-51.24	-49.24	-21.20	-28.04
2440MHz	Pass	2.5G	3.1G	PK	2.7898G	2.00	-51.85	-49.85	-21.20	-28.65
2478MHz	Pass	1G	2.31G	AV	2.13823G	2.00	-62.98	-60.98	-41.20	-19.78
2478MHz	Pass	2.31G	2.39G	AV	2.31944G	2.00	-63.26	-61.26	-41.20	-20.06
2478MHz	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-51.19	-49.19	-41.20	-7.99
2478MHz	Pass	2.5G	3.1G	AV	2.8132G	2.00	-62.20	-60.20	-41.20	-19.00
2478MHz	Pass	1G	2.31G	PK	2.12136G	2.00	-52.22	-50.22	-21.20	-29.02
2478MHz	Pass	2.31G	2.39G	PK	2.31148G	2.00	-51.44	-49.44	-21.20	-28.24
2478MHz	Pass	2.4835G	2.5G	PK	2.48389G	2.00	-39.20	-37.20	-21.20	-16.00
2478MHz	Pass	2.5G	3.1G	PK	2.8084G	2.00	-50.61	-48.61	-21.20	-27.41
2480MHz	Pass	1G	2.31G	AV	2.29297G	2.00	-64.17	-62.17	-41.20	-20.97
2480MHz	Pass	2.31G	2.39G	AV	2.3582G	2.00	-64.06	-62.06	-41.20	-20.86
2480MHz	Pass	2.4835G	2.5G	AV	2.48359G	2.00	-48.08	-46.08	-41.20	-4.88
2480MHz	Pass	2.5G	3.1G	AV	2.82835G	2.00	-62.83	-60.83	-41.20	-19.63
2480MHz	Pass	1G	2.31G	PK	2.16721G	2.00	-53.50	-51.50	-21.20	-30.30
2480MHz	Pass	2.31G	2.39G	PK	2.3184G	2.00	-52.23	-50.23	-21.20	-29.03
2480MHz	Pass	2.4835G	2.5G	PK	2.48362G	2.00	-35.90	-33.90	-21.20	-12.70
2480MHz	Pass	2.5G	3.1G	PK	2.5042G	2.00	-50.49	-48.49	-21.20	-27.29
BT-LE(Coding rate 500kbps)										
2402MHz	Pass	1G	2.31G	AV	1.52728G	2.00	-59.50	-57.50	-41.20	-16.30
2402MHz	Pass	2.31G	2.39G	AV	2.39G	2.00	-53.65	-51.65	-41.20	-10.45
2402MHz	Pass	2.4835G	2.5G	AV	2.48417G	2.00	-61.47	-59.47	-41.20	-18.27
2402MHz	Pass	2.5G	3.1G	AV	2.8981G	2.00	-60.91	-58.91	-41.20	-17.71
2402MHz	Pass	1G	2.31G	PK	1.97137G	2.00	-49.16	-47.16	-21.20	-25.96
2402MHz	Pass	2.31G	2.39G	PK	2.38916G	2.00	-43.84	-41.84	-21.20	-20.64
2402MHz	Pass	2.4835G	2.5G	PK	2.48672G	2.00	-49.87	-47.87	-21.20	-26.67

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402MHz	Pass	2.5G	3.1G	PK	2.7835G	2.00	-49.55	-47.55	-21.20	-26.35
2440MHz	Pass	1G	2.31G	AV	1.58393G	2.00	-60.10	-58.10	-41.20	-16.90
2440MHz	Pass	2.31G	2.39G	AV	2.38968G	2.00	-61.63	-59.63	-41.20	-18.43
2440MHz	Pass	2.4835G	2.5G	AV	2.48401G	2.00	-60.77	-58.77	-41.20	-17.57
2440MHz	Pass	2.5G	3.1G	AV	2.824G	2.00	-61.36	-59.36	-41.20	-18.16
2440MHz	Pass	1G	2.31G	PK	1.19388G	2.00	-49.12	-47.12	-21.20	-25.92
2440MHz	Pass	2.31G	2.39G	PK	2.36992G	2.00	-50.11	-48.11	-21.20	-26.91
2440MHz	Pass	2.4835G	2.5G	PK	2.48775G	2.00	-49.02	-47.02	-21.20	-25.82
2440MHz	Pass	2.5G	3.1G	PK	2.5162G	2.00	-49.86	-47.86	-21.20	-26.66
2478MHz	Pass	1G	2.31G	AV	1.8122G	2.00	-61.57	-59.57	-41.20	-18.37
2478MHz	Pass	2.31G	2.39G	AV	2.31588G	2.00	-62.12	-60.12	-41.20	-18.92
2478MHz	Pass	2.4835G	2.5G	AV	2.48355G	2.00	-44.64	-42.64	-41.20	-1.44
2478MHz	Pass	2.5G	3.1G	AV	2.5006G	2.00	-59.57	-57.57	-41.20	-16.37
2478MHz	Pass	1G	2.31G	PK	1.7788G	2.00	-49.48	-47.48	-21.20	-26.28
2478MHz	Pass	2.31G	2.39G	PK	2.32192G	2.00	-48.58	-46.58	-21.20	-25.38
2478MHz	Pass	2.4835G	2.5G	PK	2.48358G	2.00	-32.76	-30.76	-21.20	-9.56
2478MHz	Pass	2.5G	3.1G	PK	2.5057G	2.00	-49.42	-47.42	-21.20	-26.22
2480MHz	Pass	1G	2.31G	AV	2.12431G	2.00	-62.07	-60.07	-41.20	-18.87
2480MHz	Pass	2.31G	2.39G	AV	2.31372G	2.00	-62.47	-60.47	-41.20	-19.27
2480MHz	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-44.21	-42.21	-41.20	-1.01
2480MHz	Pass	2.5G	3.1G	AV	2.5003G	2.00	-60.61	-58.61	-41.20	-17.41
2480MHz	Pass	1G	2.31G	PK	2.11088G	2.00	-51.37	-49.37	-21.20	-28.17
2480MHz	Pass	2.31G	2.39G	PK	2.32444G	2.00	-51.17	-49.17	-21.20	-27.97
2480MHz	Pass	2.4835G	2.5G	PK	2.48358G	2.00	-28.62	-26.62	-21.20	-5.42
2480MHz	Pass	2.5G	3.1G	PK	2.5033G	2.00	-49.92	-47.92	-21.20	-26.72
BT-LE(Symbol rate 1Mbps)										
2402MHz	Pass	1G	2.31G	AV	1.5037G	2.00	-59.48	-57.48	-41.20	-16.28
2402MHz	Pass	2.31G	2.39G	AV	2.3898G	2.00	-53.45	-51.45	-41.20	-10.25
2402MHz	Pass	2.4835G	2.5G	AV	2.49851G	2.00	-61.60	-59.60	-41.20	-18.40
2402MHz	Pass	2.5G	3.1G	AV	2.82475G	2.00	-60.69	-58.69	-41.20	-17.49
2402MHz	Pass	1G	2.31G	PK	1.75129G	2.00	-48.91	-46.91	-21.20	-25.71
2402MHz	Pass	2.31G	2.39G	PK	2.38836G	2.00	-42.30	-40.30	-21.20	-19.10
2402MHz	Pass	2.4835G	2.5G	PK	2.49064G	2.00	-49.58	-47.58	-21.20	-26.38
2402MHz	Pass	2.5G	3.1G	PK	2.7532G	2.00	-49.83	-47.83	-21.20	-26.63
2440MHz	Pass	1G	2.31G	AV	1.53841G	2.00	-59.53	-57.53	-41.20	-16.33
2440MHz	Pass	2.31G	2.39G	AV	2.38624G	2.00	-61.48	-59.48	-41.20	-18.28
2440MHz	Pass	2.4835G	2.5G	AV	2.48866G	2.00	-60.74	-58.74	-41.20	-17.54
2440MHz	Pass	2.5G	3.1G	AV	2.82295G	2.00	-61.36	-59.36	-41.20	-18.16
2440MHz	Pass	1G	2.31G	PK	1.58885G	2.00	-48.38	-46.38	-21.20	-25.18
2440MHz	Pass	2.31G	2.39G	PK	2.323G	2.00	-49.54	-47.54	-21.20	-26.34
2440MHz	Pass	2.4835G	2.5G	PK	2.49G	2.00	-47.73	-45.73	-21.20	-24.53
2440MHz	Pass	2.5G	3.1G	PK	2.8789G	2.00	-49.84	-47.84	-21.20	-26.64

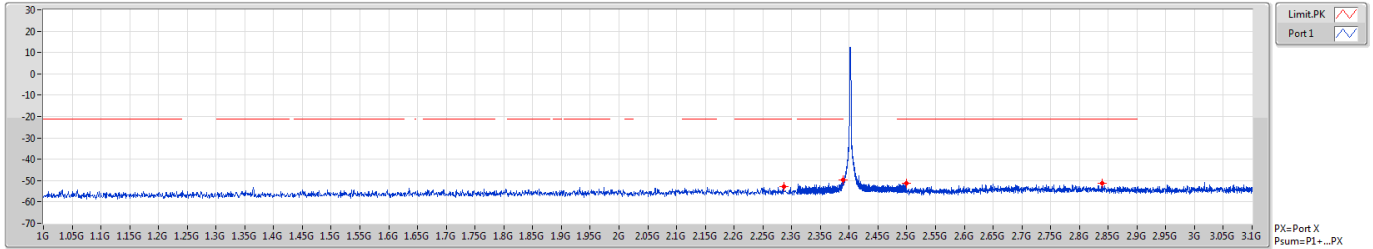
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2478MHz	Pass	1G	2.31G	AV	1.77781G	2.00	-61.53	-59.53	-41.20	-18.33
2478MHz	Pass	2.31G	2.39G	AV	2.31176G	2.00	-62.09	-60.09	-41.20	-18.89
2478MHz	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-44.76	-42.76	-41.20	-1.56
2478MHz	Pass	2.5G	3.1G	AV	2.5009G	2.00	-59.71	-57.71	-41.20	-16.51
2478MHz	Pass	1G	2.31G	PK	1.47029G	2.00	-50.34	-48.34	-21.20	-27.14
2478MHz	Pass	2.31G	2.39G	PK	2.32204G	2.00	-49.37	-47.37	-21.20	-26.17
2478MHz	Pass	2.4835G	2.5G	PK	2.48372G	2.00	-30.34	-28.34	-21.20	-7.14
2478MHz	Pass	2.5G	3.1G	PK	2.5003G	2.00	-48.64	-46.64	-21.20	-25.44
2480MHz	Pass	1G	2.31G	AV	2.13741G	2.00	-62.41	-60.41	-41.20	-19.21
2480MHz	Pass	2.31G	2.39G	AV	2.33584G	2.00	-62.78	-60.78	-41.20	-19.58
2480MHz	Pass	2.4835G	2.5G	AV	2.4835G	2.00	-44.28	-42.28	-41.20	-1.08
2480MHz	Pass	2.5G	3.1G	AV	2.5003G	2.00	-60.77	-58.77	-41.20	-17.57
2480MHz	Pass	1G	2.31G	PK	2.12726G	2.00	-51.88	-49.88	-21.20	-28.68
2480MHz	Pass	2.31G	2.39G	PK	2.3126G	2.00	-51.46	-49.46	-21.20	-28.26
2480MHz	Pass	2.4835G	2.5G	PK	2.48366G	2.00	-28.51	-26.51	-21.20	-5.31
2480MHz	Pass	2.5G	3.1G	PK	2.8825G	2.00	-50.37	-48.37	-21.20	-27.17
BT-LE(Symbol rate 2Mbps)										
2404MHz	Pass	1G	2.31G	AV	1.60915G	2.00	-60.26	-58.26	-41.20	-17.06
2404MHz	Pass	2.31G	2.39G	AV	2.36564G	2.00	-54.09	-52.09	-41.20	-10.89
2404MHz	Pass	2.4835G	2.5G	AV	2.49915G	2.00	-61.60	-59.60	-41.20	-18.40
2404MHz	Pass	2.5G	3.1G	AV	2.86255G	2.00	-61.11	-59.11	-41.20	-17.91
2404MHz	Pass	1G	2.31G	PK	1.61963G	2.00	-49.38	-47.38	-21.20	-26.18
2404MHz	Pass	2.31G	2.39G	PK	2.38988G	2.00	-43.73	-41.73	-21.20	-20.53
2404MHz	Pass	2.4835G	2.5G	PK	2.48577G	2.00	-49.68	-47.68	-21.20	-26.48
2404MHz	Pass	2.5G	3.1G	PK	2.5603G	2.00	-49.09	-47.09	-21.20	-25.89
2440MHz	Pass	1G	2.31G	AV	1.46063G	2.00	-60.08	-58.08	-41.20	-16.88
2440MHz	Pass	2.31G	2.39G	AV	2.38952G	2.00	-61.79	-59.79	-41.20	-18.59
2440MHz	Pass	2.4835G	2.5G	AV	2.48619G	2.00	-60.91	-58.91	-41.20	-17.71
2440MHz	Pass	2.5G	3.1G	AV	2.88325G	2.00	-61.48	-59.48	-41.20	-18.28
2440MHz	Pass	1G	2.31G	PK	1.57902G	2.00	-48.84	-46.84	-21.20	-25.64
2440MHz	Pass	2.31G	2.39G	PK	2.34204G	2.00	-49.97	-47.97	-21.20	-26.77
2440MHz	Pass	2.4835G	2.5G	PK	2.48386G	2.00	-48.96	-46.96	-21.20	-25.76
2440MHz	Pass	2.5G	3.1G	PK	2.7094G	2.00	-49.55	-47.55	-21.20	-26.35
2478MHz	Pass	1G	2.31G	AV	2.14412G	2.00	-62.26	-60.26	-41.20	-19.06
2478MHz	Pass	2.31G	2.39G	AV	2.31344G	2.00	-62.66	-60.66	-41.20	-19.46
2478MHz	Pass	2.4835G	2.5G	AV	2.48352G	2.00	-44.32	-42.32	-41.20	-1.12
2478MHz	Pass	2.5G	3.1G	AV	2.5174G	2.00	-58.86	-56.86	-41.20	-15.66
2478MHz	Pass	1G	2.31G	PK	2.14036G	2.00	-50.28	-48.28	-21.20	-27.08
2478MHz	Pass	2.31G	2.39G	PK	2.36848G	2.00	-51.33	-49.33	-21.20	-28.13
2478MHz	Pass	2.4835G	2.5G	PK	2.48373G	2.00	-32.37	-30.37	-21.20	-9.17
2478MHz	Pass	2.5G	3.1G	PK	2.5171G	2.00	-48.60	-46.60	-21.20	-25.40

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

BT-LE(125kbps)

CSE-DTS [PK]

2402MHz

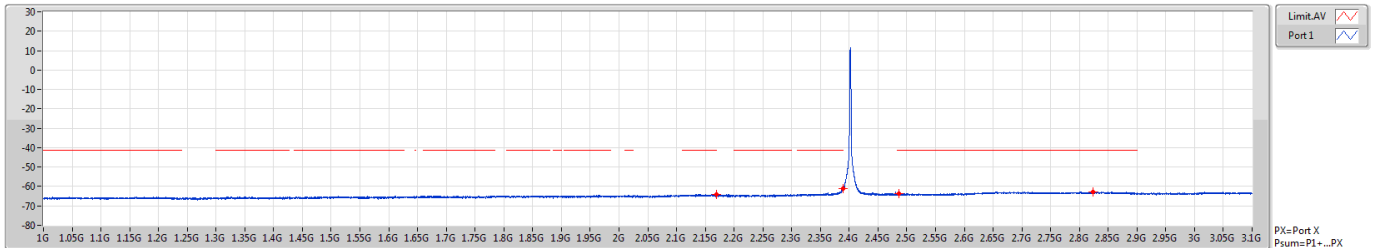


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	PK	2.28642G	-52.87	-52.87
2.31G	2.39G	1M	PK	2.3892G	-49.75	-49.75
2.4835G	2.5G	1M	PK	2.49915G	-51.11	-51.11
2.5G	3.1G	1M	PK	2.8399G	-51.22	-51.22

BT-LE(125kbps)

CSE-DTS [AV]

2402MHz



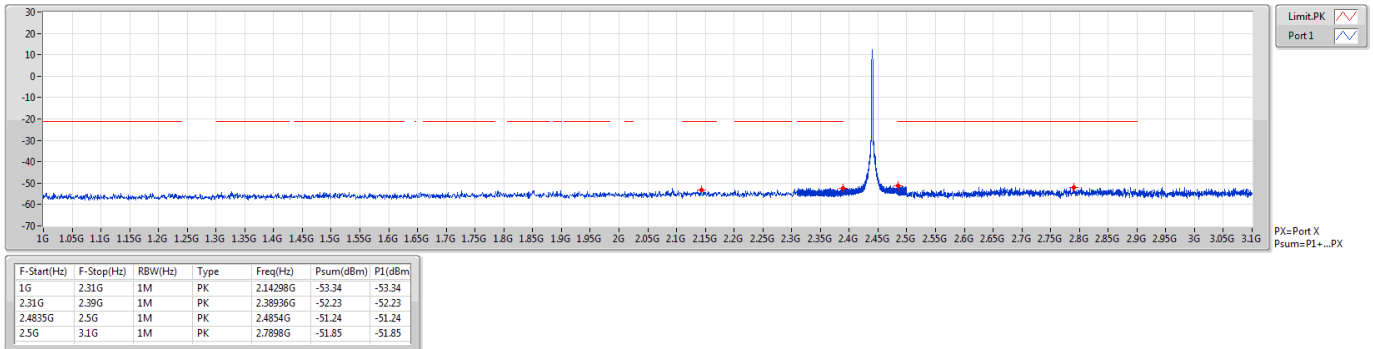
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
1G	2.31G	1M	AV	2.1695G	-64.04	-64.04
2.31G	2.39G	1M	AV	2.39G	-61.16	-61.16
2.4835G	2.5G	1M	AV	2.48624G	-63.51	-63.51
2.5G	3.1G	1M	AV	2.8234G	-62.83	-62.83



BT-LE(125kbps)

CSE-DTS [PK]

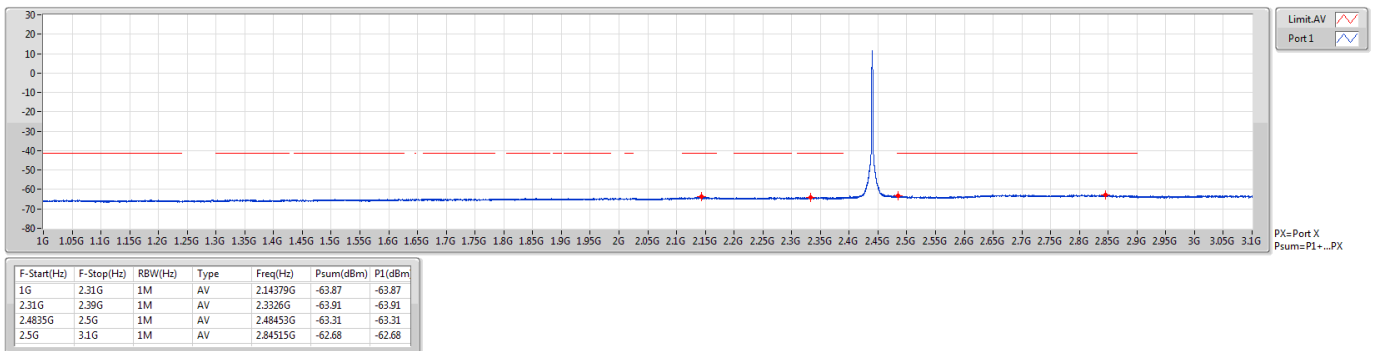
2440MHz



BT-LE(125kbps)

CSE-DTS [AV]

2440MHz

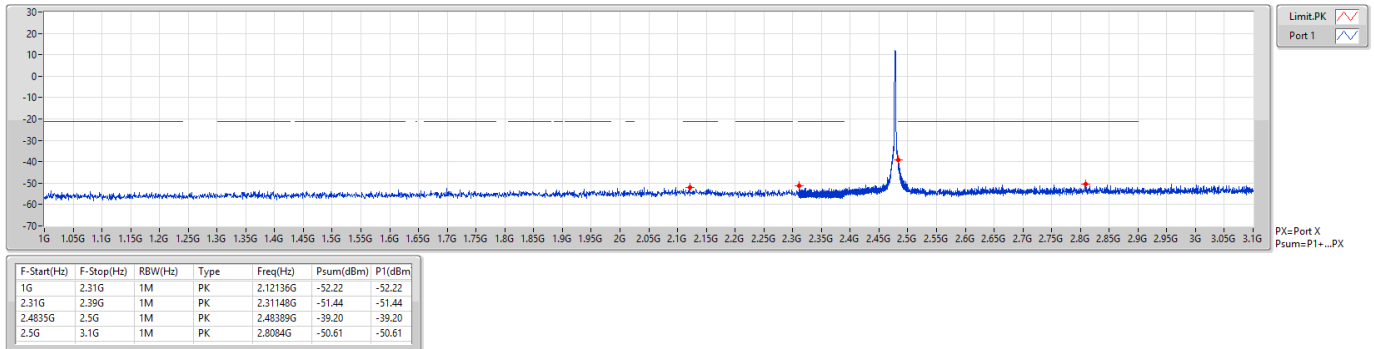




BT-LE(125kbps)

CSE-DTS [PK]

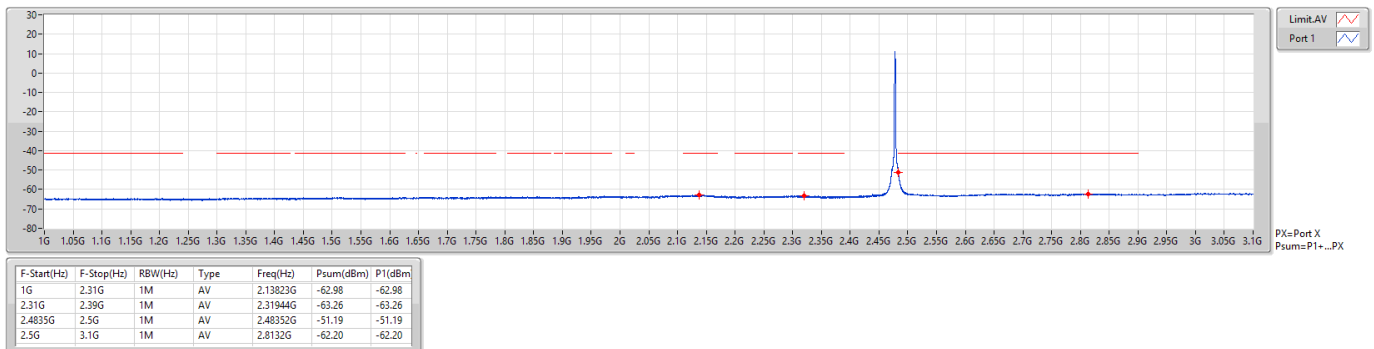
2478MHz



BT-LE(125kbps)

CSE-DTS [AV]

2478MHz

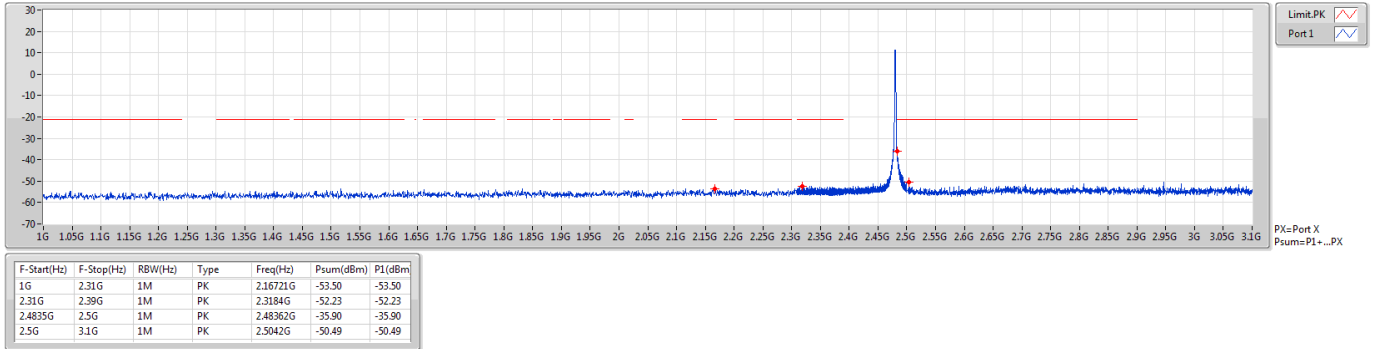




BT-LE(125kbps)

CSE-DTS [PK]

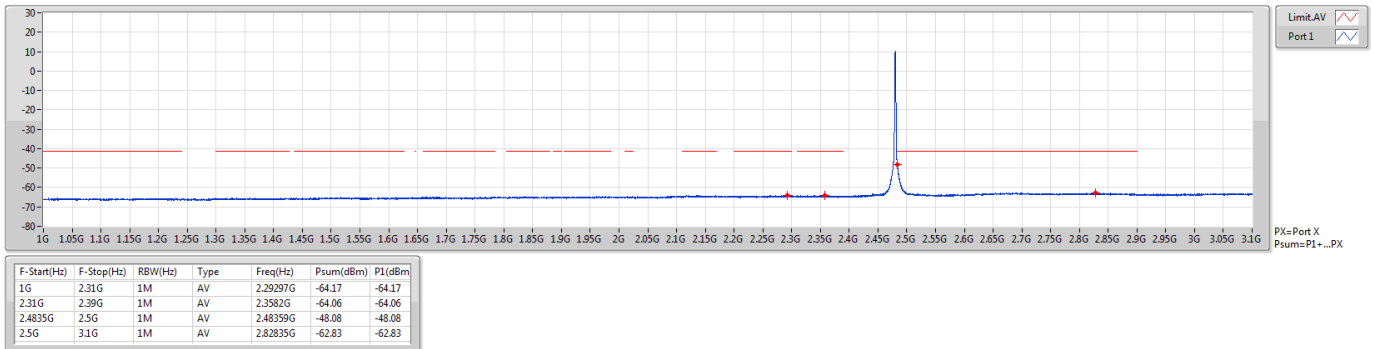
2480MHz



BT-LE(125kbps)

CSE-DTS [AV]

2480MHz

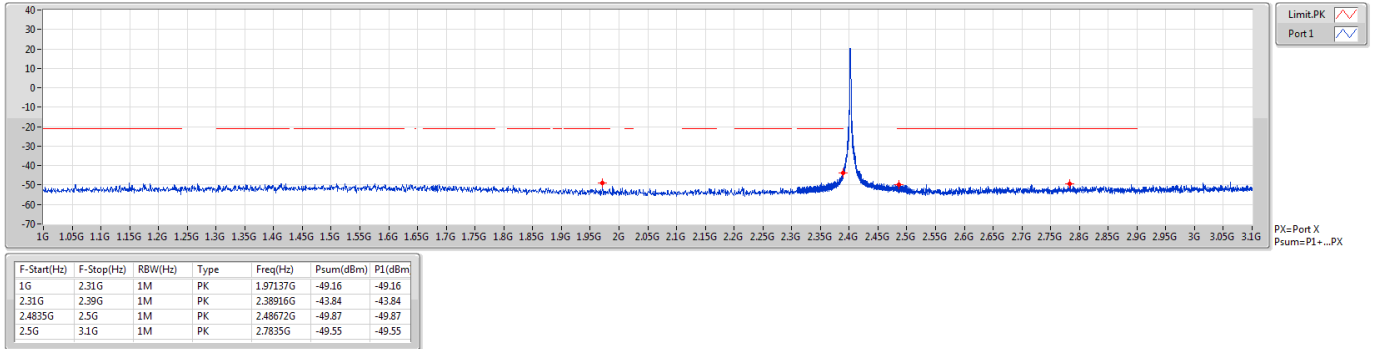




BT-LE(500kbps)

CSE-DTS [PK]

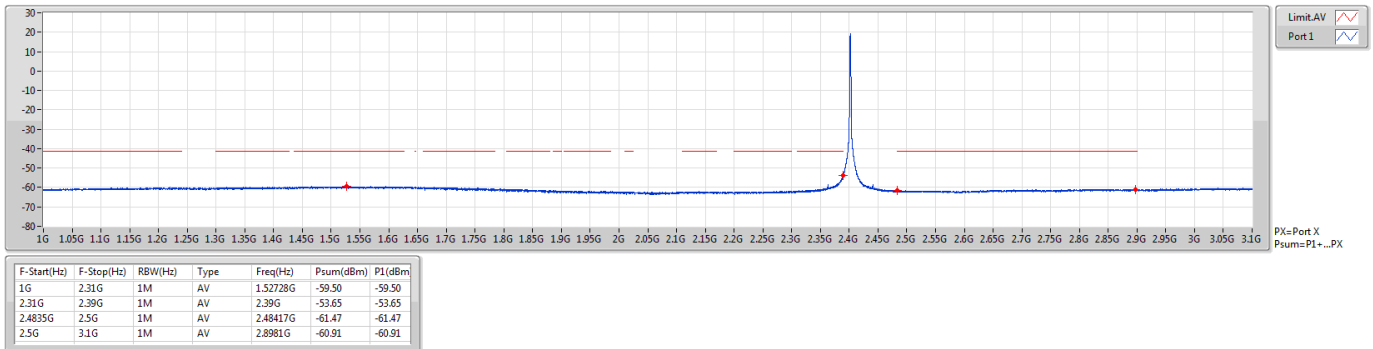
2402MHz



BT-LE(500kbps)

CSE-DTS [AV]

2402MHz

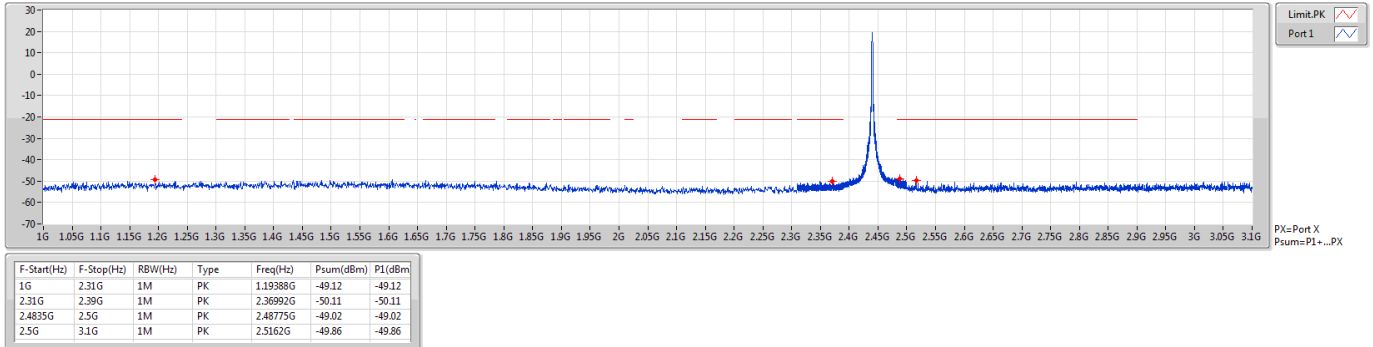




BT-LE(500kbps)

CSE-DTS [PK]

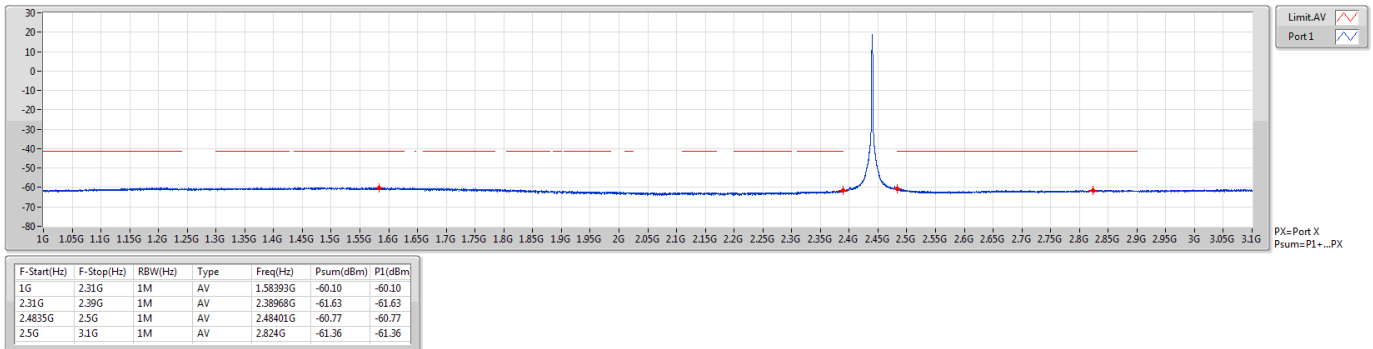
2440MHz



BT-LE(500kbps)

CSE-DTS [AV]

2440MHz

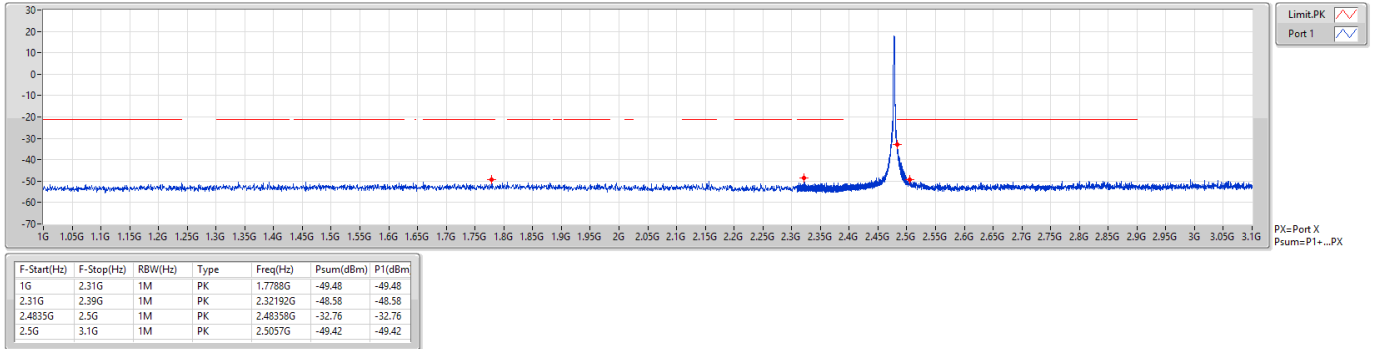




BT-LE(500kbps)

CSE-DTS [PK]

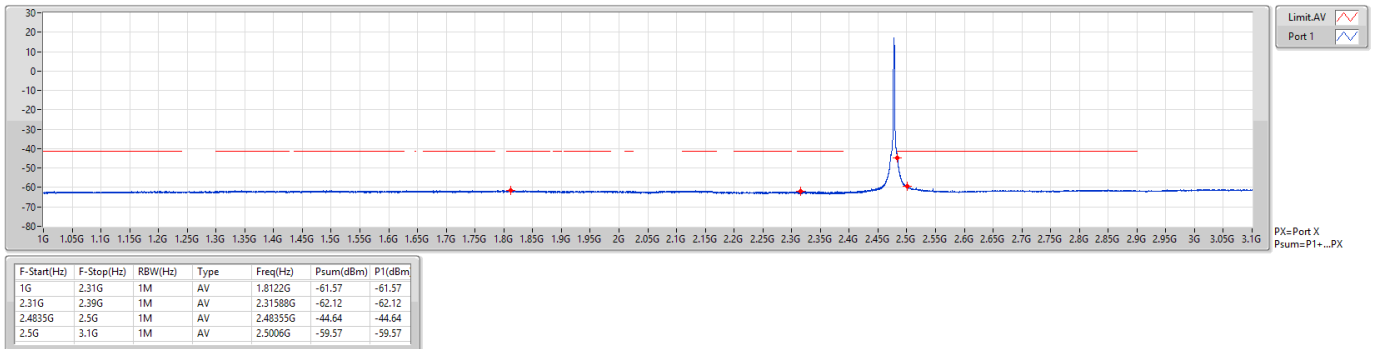
2478MHz



BT-LE(500kbps)

CSE-DTS [AV]

2478MHz

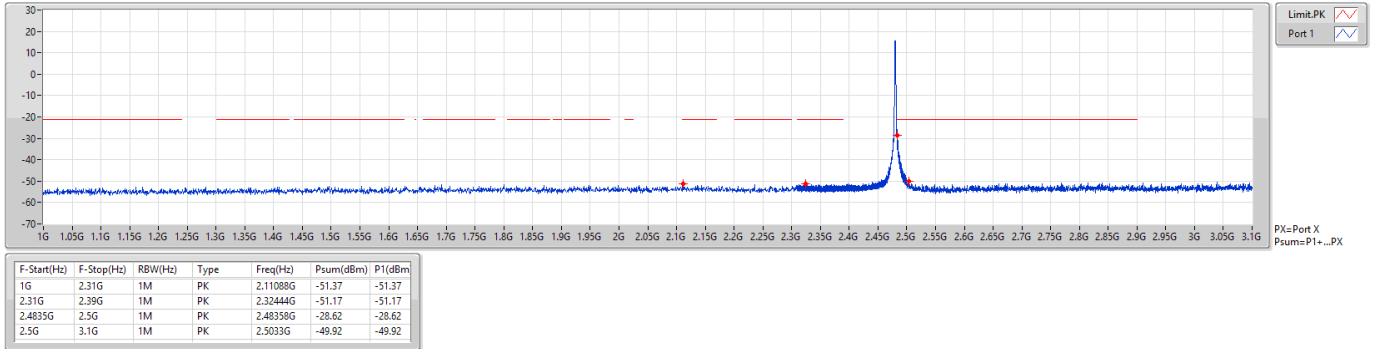




BT-LE(500kbps)

CSE-DTS [PK]

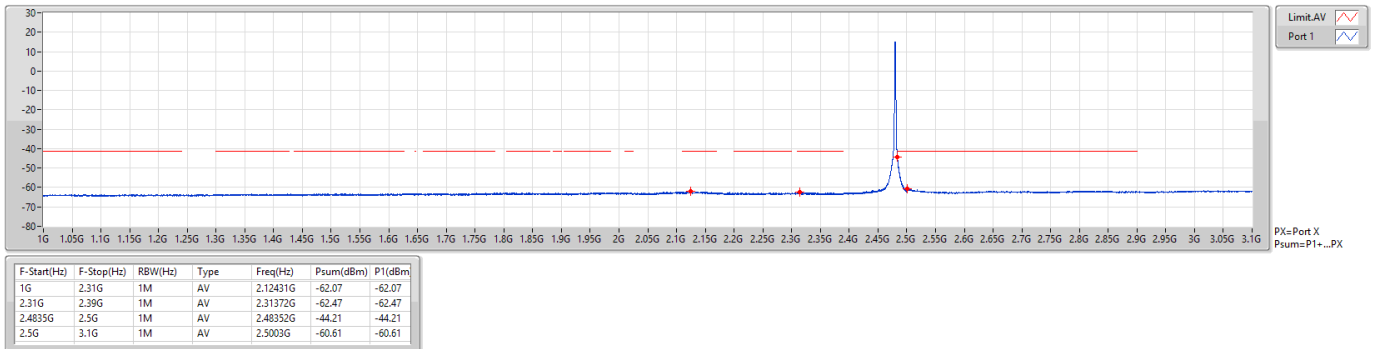
2480MHz



BT-LE(500kbps)

CSE-DTS [AV]

2480MHz

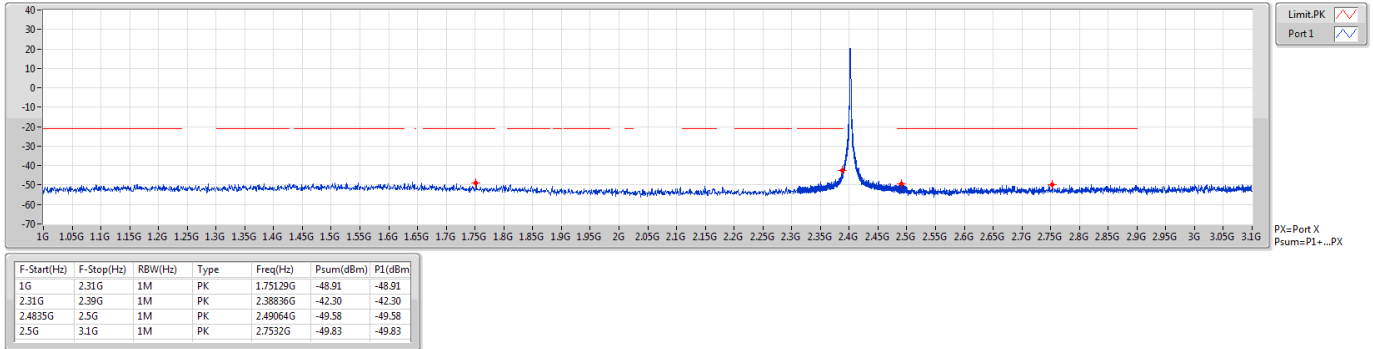




BT-LE(1Mbps)

CSE-DTS [PK]

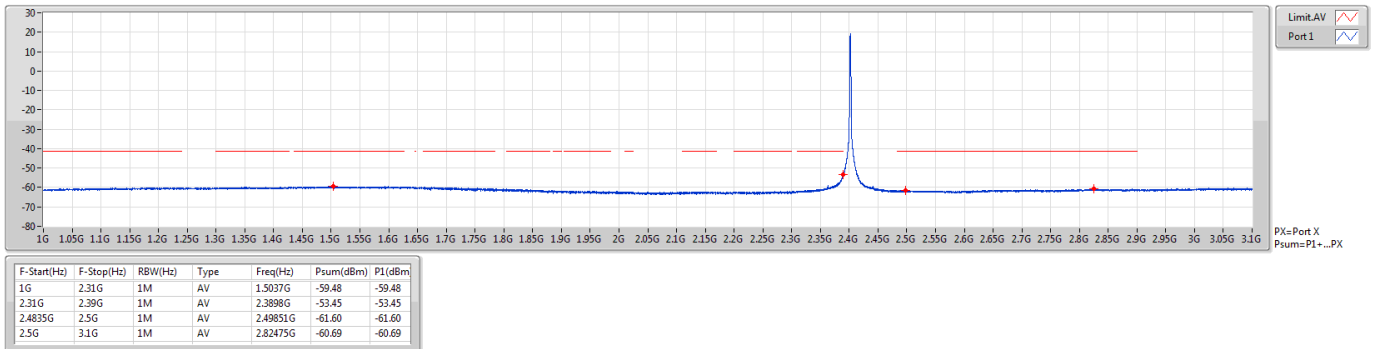
2402MHz



BT-LE(1Mbps)

CSE-DTS [AV]

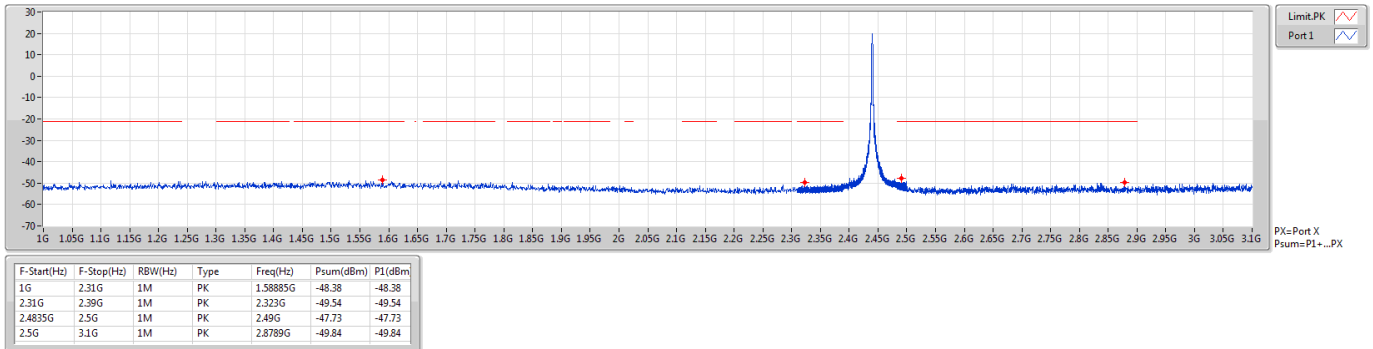
2402MHz



BT-LE(1Mbps)

CSE-DTS [PK]

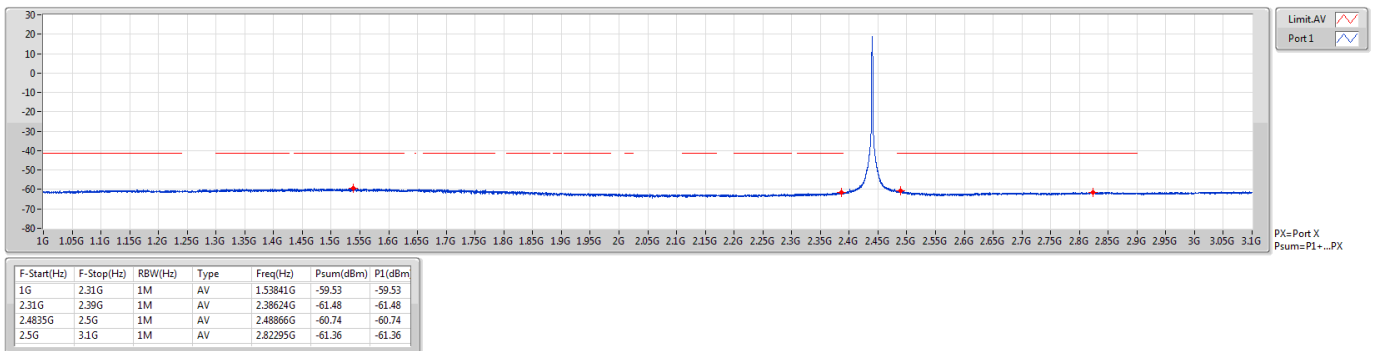
2440MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2440MHz

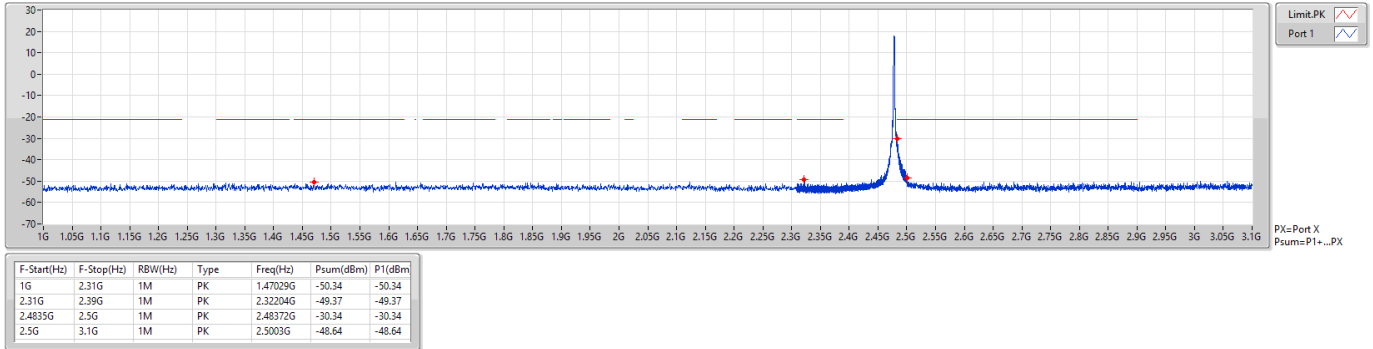




BT-LE(1Mbps)

CSE-DTS [PK]

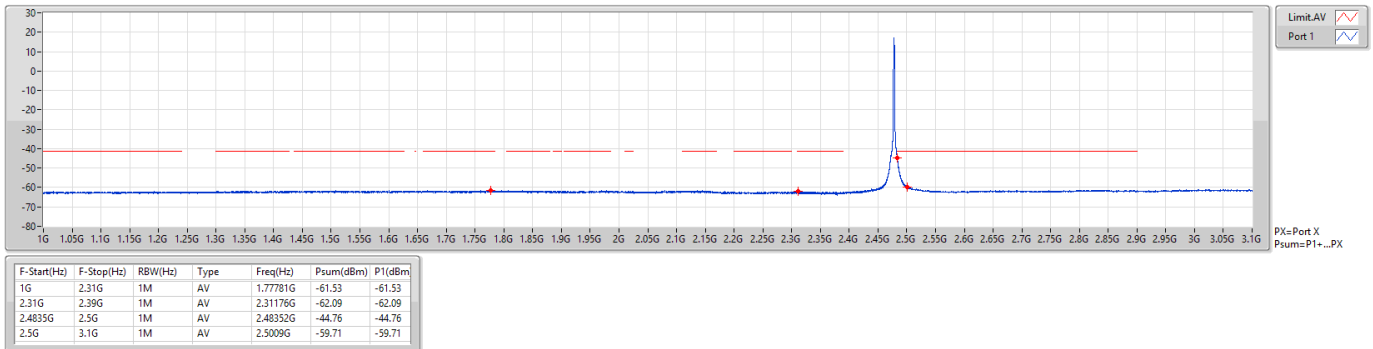
2478MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2478MHz

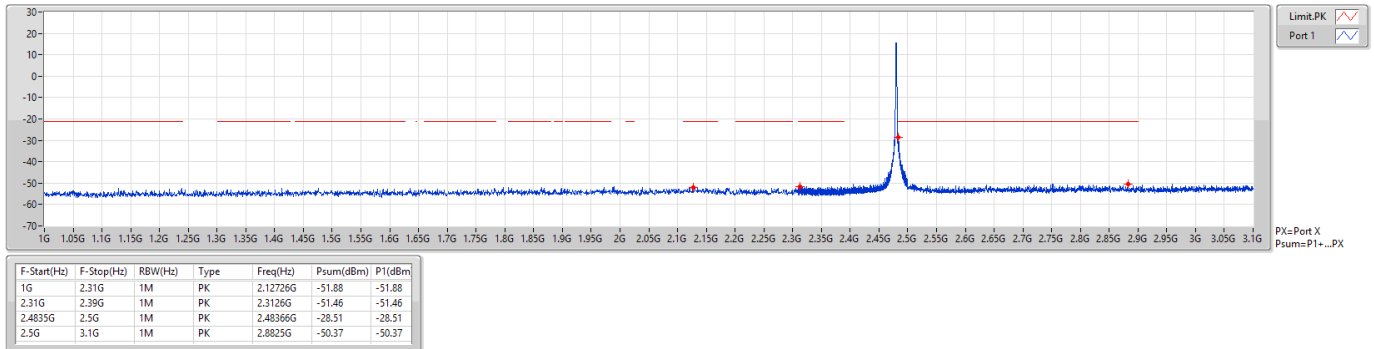




BT-LE(1Mbps)

CSE-DTS [PK]

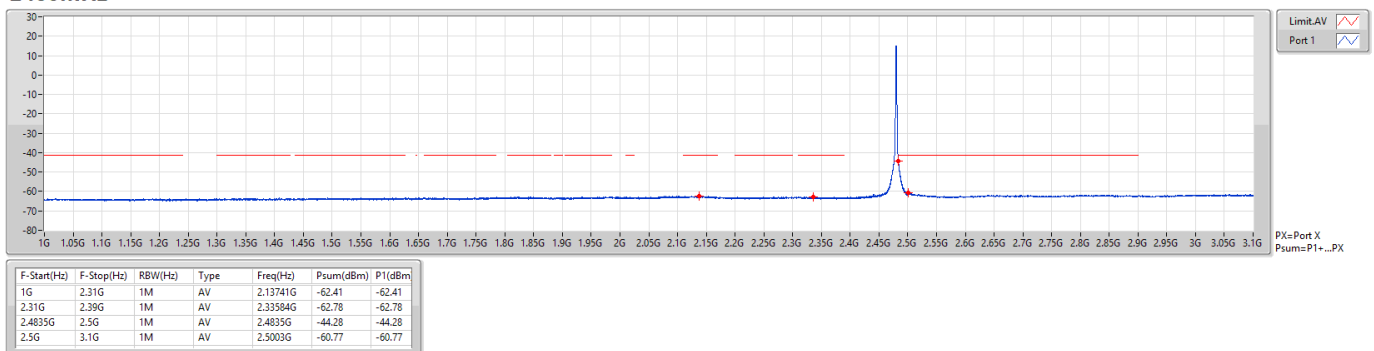
2480MHz



BT-LE(1Mbps)

CSE-DTS [AV]

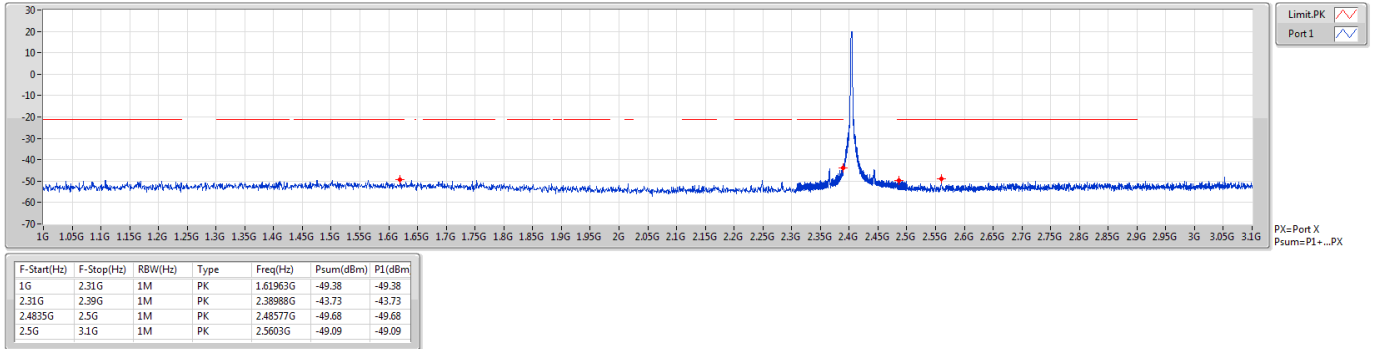
2480MHz



BT-LE(2Mbps)

CSE-DTS [PK]

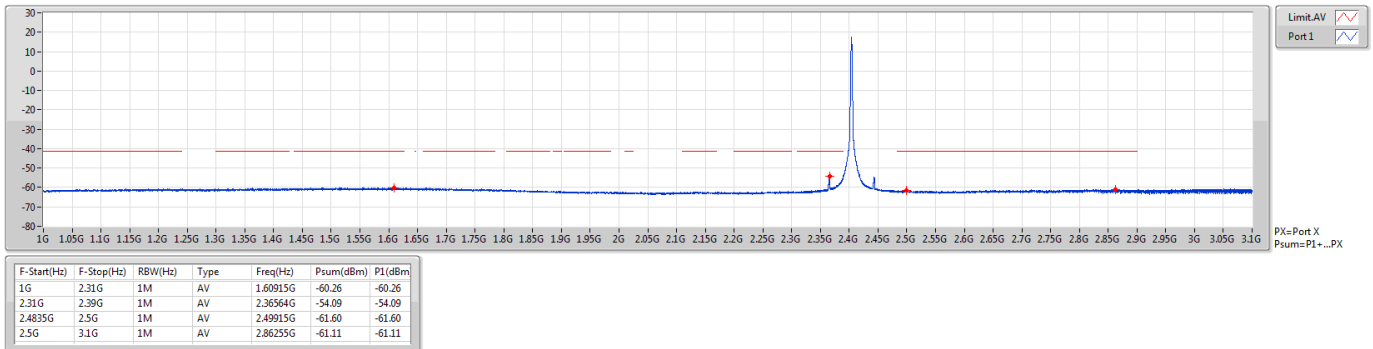
2404MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2404MHz

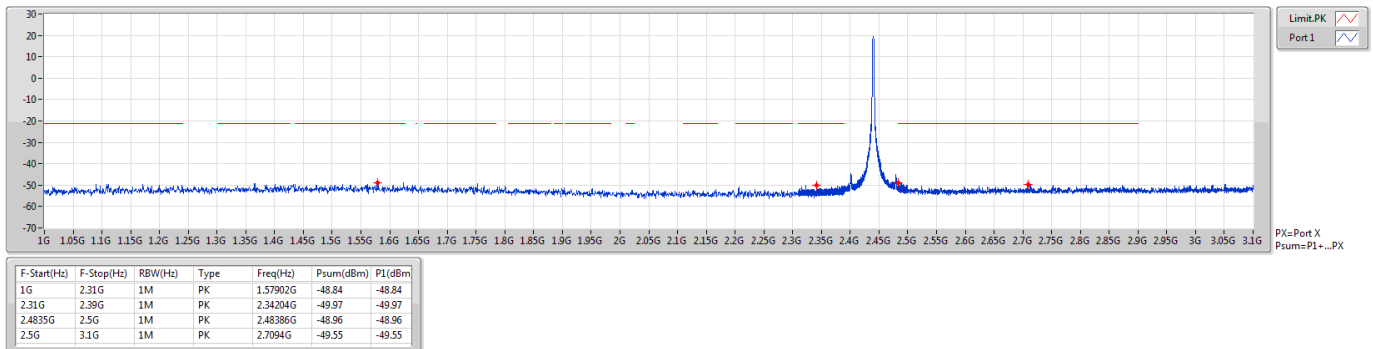




BT-LE(2Mbps)

CSE-DTS [PK]

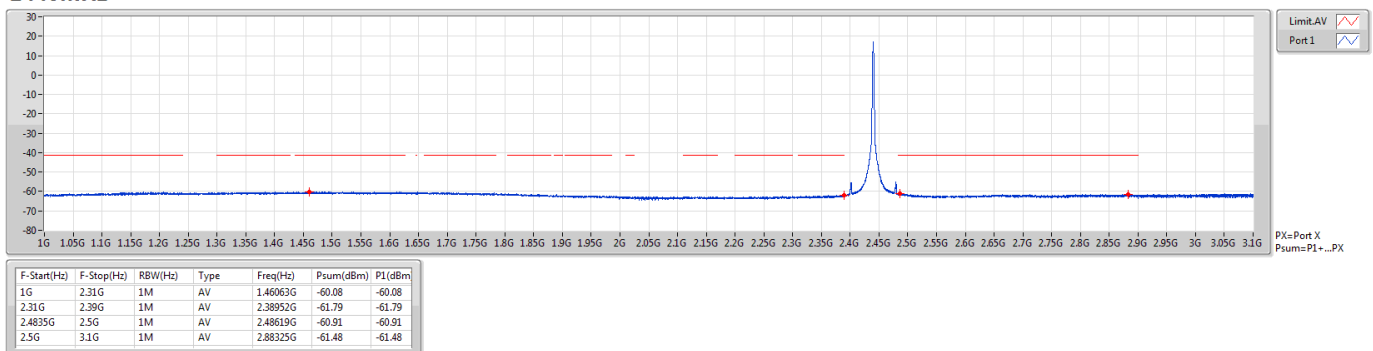
2440MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2440MHz

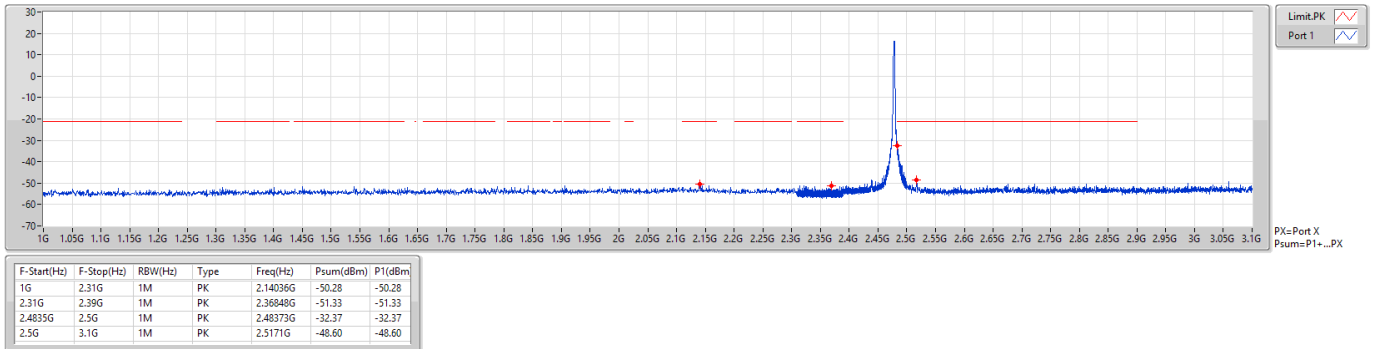




BT-LE(2Mbps)

CSE-DTS [PK]

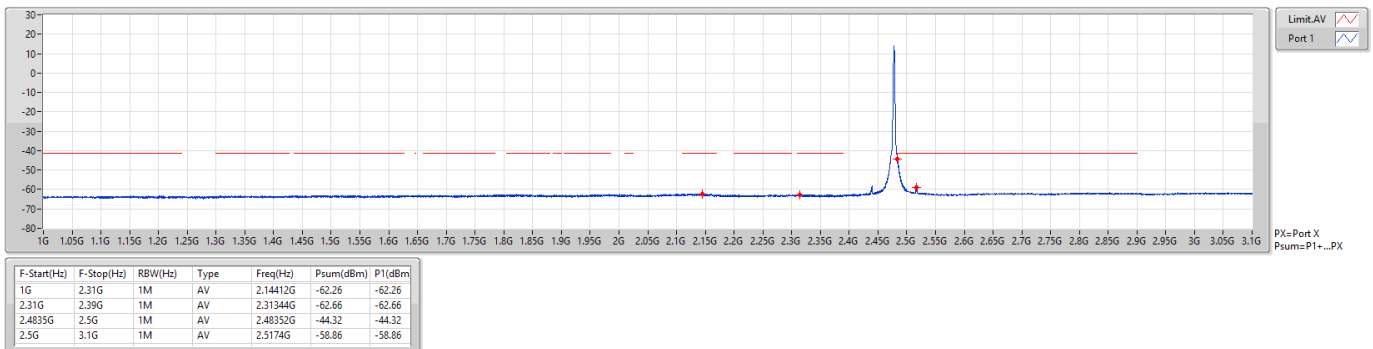
2478MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2478MHz



3) Configuration 3: Laird part number: 453-00148, 20dBm, RF Trace Pad (External antenna)

Transmitter Conducted Unwanted Emissions (3.1GHz ~ 25GHz)

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(Coding rate125kbps)	Pass	8G	25G	AV	19.13234G	2.00	-63.78	-61.78	-41.20	-20.58
BT-LE(Coding rate 500kbps)	Pass	8G	25G	AV	19.14775G	2.00	-63.49	-61.49	-41.20	-20.29
BT-LE(Symbol rate 1Mbps)	Pass	8G	25G	AV	19.86759G	2.00	-63.33	-61.33	-41.20	-20.13
BT-LE(Symbol rate 2Mbps)	Pass	8G	25G	AV	16.09784G	2.00	-64.13	-62.13	-41.20	-20.93

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
BT-LE(Coding rate125kbps)										
2402MHz	Pass	3.1G	4G	AV	3.26583G	2.00	-76.22	-74.22	-41.20	-33.02
2402MHz	Pass	4G	5G	AV	4.804G	2.00	-64.73	-62.73	-41.20	-21.53
2402MHz	Pass	5G	7G	AV	5.0515G	2.00	-74.65	-72.65	-41.20	-31.45
2402MHz	Pass	7G	8G	AV	7.6065G	2.00	-74.36	-72.36	-41.20	-31.16
2402MHz	Pass	8G	25G	AV	19.87716G	2.00	-63.96	-61.96	-41.20	-20.76
2402MHz	Pass	3.1G	4G	PK	3.2665G	2.00	-65.52	-63.52	-21.20	-42.32
2402MHz	Pass	4G	5G	PK	4.80375G	2.00	-58.44	-56.44	-21.20	-35.24
2402MHz	Pass	5G	7G	PK	5.3575G	2.00	-63.42	-61.42	-21.20	-40.22
2402MHz	Pass	7G	8G	PK	7.61225G	2.00	-63.66	-61.66	-21.20	-40.46
2402MHz	Pass	8G	25G	PK	19.89681G	2.00	-54.85	-52.85	-21.20	-31.65
2440MHz	Pass	3.1G	4G	AV	3.35178G	2.00	-76.10	-74.10	-41.20	-32.90
2440MHz	Pass	4G	5G	AV	4.88G	2.00	-66.33	-64.33	-41.20	-23.13
2440MHz	Pass	5G	7G	AV	5.2425G	2.00	-74.42	-72.42	-41.20	-31.22
2440MHz	Pass	7G	8G	AV	7.64175G	2.00	-74.11	-72.11	-41.20	-30.91
2440MHz	Pass	8G	25G	AV	19.87025G	2.00	-64.02	-62.02	-41.20	-20.82
2440MHz	Pass	3.1G	4G	PK	3.52075G	2.00	-66.10	-64.10	-21.20	-42.90
2440MHz	Pass	4G	5G	PK	4.88G	2.00	-59.95	-57.95	-21.20	-36.75
2440MHz	Pass	5G	7G	PK	5.236G	2.00	-64.36	-62.36	-21.20	-41.16
2440MHz	Pass	7G	8G	PK	7.594G	2.00	-64.16	-62.16	-21.20	-40.96
2440MHz	Pass	8G	25G	PK	19.91594G	2.00	-54.56	-52.56	-21.20	-31.36
2478MHz	Pass	3.1G	4G	AV	3.3556G	2.00	-75.33	-73.33	-41.20	-32.13
2478MHz	Pass	4G	5G	AV	4.95625G	2.00	-67.28	-65.28	-41.20	-24.08
2478MHz	Pass	5G	7G	AV	5.165G	2.00	-73.80	-71.80	-41.20	-30.60
2478MHz	Pass	7G	8G	AV	7.4925G	2.00	-71.29	-69.29	-41.20	-28.09
2478MHz	Pass	8G	25G	AV	19.13234G	2.00	-63.78	-61.78	-41.20	-20.58
2478MHz	Pass	3.1G	4G	PK	3.26695G	2.00	-64.51	-62.51	-21.20	-41.31

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2478MHz	Pass	4G	5G	PK	4.9555G	2.00	-60.16	-58.16	-21.20	-36.96
2478MHz	Pass	5G	7G	PK	5.3535G	2.00	-63.21	-61.21	-21.20	-40.01
2478MHz	Pass	7G	8G	PK	7.48625G	2.00	-59.96	-57.96	-21.20	-36.76
2478MHz	Pass	8G	25G	PK	19.11481G	2.00	-54.88	-52.88	-21.20	-31.68
2480MHz	Pass	3.1G	4G	AV	3.35605G	2.00	-75.19	-73.19	-41.20	-31.99
2480MHz	Pass	4G	5G	AV	4.96025G	2.00	-68.08	-66.08	-41.20	-24.88
2480MHz	Pass	5G	7G	AV	5.2085G	2.00	-74.14	-72.14	-41.20	-30.94
2480MHz	Pass	7G	8G	AV	7.4865G	2.00	-71.83	-69.83	-41.20	-28.63
2480MHz	Pass	8G	25G	AV	16.07075G	2.00	-64.24	-62.24	-41.20	-21.04
2480MHz	Pass	3.1G	4G	PK	3.54505G	2.00	-65.35	-63.35	-21.20	-42.15
2480MHz	Pass	4G	5G	PK	4.96025G	2.00	-60.68	-58.68	-21.20	-37.48
2480MHz	Pass	5G	7G	PK	5.193G	2.00	-64.68	-62.68	-21.20	-41.48
2480MHz	Pass	7G	8G	PK	7.462G	2.00	-62.62	-60.62	-21.20	-39.42
2480MHz	Pass	8G	25G	PK	19.14934G	2.00	-55.32	-53.32	-21.20	-32.12
BT-LE(Coding rate 500kbps)										
2402MHz	Pass	3.1G	4G	AV	3.26448G	2.00	-67.91	-65.91	-41.20	-24.71
2402MHz	Pass	4G	5G	AV	4.804G	2.00	-64.23	-62.23	-41.20	-21.03
2402MHz	Pass	5G	7G	AV	5.21G	2.00	-74.53	-72.53	-41.20	-31.33
2402MHz	Pass	7G	8G	AV	7.48525G	2.00	-72.13	-70.13	-41.20	-28.93
2402MHz	Pass	8G	25G	AV	16.08138G	2.00	-64.45	-62.45	-41.20	-21.25
2402MHz	Pass	3.1G	4G	PK	3.26583G	2.00	-58.44	-56.44	-21.20	-35.24
2402MHz	Pass	4G	5G	PK	4.8035G	2.00	-59.00	-57.00	-21.20	-35.80
2402MHz	Pass	5G	7G	PK	5.201G	2.00	-65.06	-63.06	-21.20	-41.86
2402MHz	Pass	7G	8G	PK	7.4445G	2.00	-61.85	-59.85	-21.20	-38.65
2402MHz	Pass	8G	25G	PK	18.87734G	2.00	-54.87	-52.87	-21.20	-31.67
2440MHz	Pass	3.1G	4G	AV	3.26088G	2.00	-66.83	-64.83	-41.20	-23.63
2440MHz	Pass	4G	5G	AV	4.88G	2.00	-66.95	-64.95	-41.20	-23.75
2440MHz	Pass	5G	7G	AV	5.2045G	2.00	-74.15	-72.15	-41.20	-30.95
2440MHz	Pass	7G	8G	AV	7.48775G	2.00	-71.97	-69.97	-41.20	-28.77
2440MHz	Pass	8G	25G	AV	16.08138G	2.00	-64.32	-62.32	-41.20	-21.12
2440MHz	Pass	3.1G	4G	PK	3.26515G	2.00	-57.71	-55.71	-21.20	-34.51
2440MHz	Pass	4G	5G	PK	4.87925G	2.00	-60.77	-58.77	-21.20	-37.57
2440MHz	Pass	5G	7G	PK	5.1025G	2.00	-64.85	-62.85	-21.20	-41.65
2440MHz	Pass	7G	8G	PK	7.47075G	2.00	-61.88	-59.88	-21.20	-38.68
2440MHz	Pass	8G	25G	PK	19.15838G	2.00	-55.02	-53.02	-21.20	-31.82
2478MHz	Pass	3.1G	4G	AV	3.2665G	2.00	-70.80	-68.80	-41.20	-27.60
2478MHz	Pass	4G	5G	AV	4.95625G	2.00	-72.67	-70.67	-41.20	-29.47
2478MHz	Pass	5G	7G	AV	5.1975G	2.00	-73.91	-71.91	-41.20	-30.71
2478MHz	Pass	7G	8G	AV	7.49425G	2.00	-71.00	-69.00	-41.20	-27.80
2478MHz	Pass	8G	25G	AV	19.14775G	2.00	-63.49	-61.49	-41.20	-20.29
2478MHz	Pass	3.1G	4G	PK	3.26335G	2.00	-61.37	-59.37	-21.20	-38.17
2478MHz	Pass	4G	5G	PK	4.9555G	2.00	-63.96	-61.96	-21.20	-40.76

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2478MHz	Pass	5G	7G	PK	5.1655G	2.00	-63.68	-61.68	-21.20	-40.48
2478MHz	Pass	7G	8G	PK	7.4605G	2.00	-60.99	-58.99	-21.20	-37.79
2478MHz	Pass	8G	25G	PK	18.90603G	2.00	-54.07	-52.07	-21.20	-30.87
2480MHz	Pass	3.1G	4G	AV	3.2647G	2.00	-73.18	-71.18	-41.20	-29.98
2480MHz	Pass	4G	5G	AV	4.9605G	2.00	-73.93	-71.93	-41.20	-30.73
2480MHz	Pass	5G	7G	AV	5.1995G	2.00	-74.35	-72.35	-41.20	-31.15
2480MHz	Pass	7G	8G	AV	7.50425G	2.00	-71.75	-69.75	-41.20	-28.55
2480MHz	Pass	8G	25G	AV	16.08563G	2.00	-64.30	-62.30	-41.20	-21.10
2480MHz	Pass	3.1G	4G	PK	3.3466G	2.00	-64.06	-62.06	-21.20	-40.86
2480MHz	Pass	4G	5G	PK	4.5505G	2.00	-64.14	-62.14	-21.20	-40.94
2480MHz	Pass	5G	7G	PK	5.213G	2.00	-64.26	-62.26	-21.20	-41.06
2480MHz	Pass	7G	8G	PK	7.509G	2.00	-62.03	-60.03	-21.20	-38.83
2480MHz	Pass	8G	25G	PK	19.13181G	2.00	-54.92	-52.92	-21.20	-31.72
BT-LE(Symbol rate 1Mbps)										
2402MHz	Pass	3.1G	4G	AV	3.262G	2.00	-67.00	-65.00	-41.20	-23.80
2402MHz	Pass	4G	5G	AV	4.804G	2.00	-64.28	-62.28	-41.20	-21.08
2402MHz	Pass	5G	7G	AV	5.2065G	2.00	-74.53	-72.53	-41.20	-31.33
2402MHz	Pass	7G	8G	AV	7.5035G	2.00	-71.75	-69.75	-41.20	-28.55
2402MHz	Pass	8G	25G	AV	16.08988G	2.00	-64.30	-62.30	-41.20	-21.10
2402MHz	Pass	3.1G	4G	PK	3.2647G	2.00	-57.39	-55.39	-21.20	-34.19
2402MHz	Pass	4G	5G	PK	4.8045G	2.00	-59.15	-57.15	-21.20	-35.95
2402MHz	Pass	5G	7G	PK	5.22G	2.00	-64.23	-62.23	-21.20	-41.03
2402MHz	Pass	7G	8G	PK	7.497G	2.00	-61.92	-59.92	-21.20	-38.72
2402MHz	Pass	8G	25G	PK	19.12703G	2.00	-55.75	-53.75	-21.20	-32.55
2440MHz	Pass	3.1G	4G	AV	3.26448G	2.00	-66.80	-64.80	-41.20	-23.60
2440MHz	Pass	4G	5G	AV	4.88025G	2.00	-67.90	-65.90	-41.20	-24.70
2440MHz	Pass	5G	7G	AV	5.239G	2.00	-73.94	-71.94	-41.20	-30.74
2440MHz	Pass	7G	8G	AV	7.3195G	2.00	-72.65	-70.65	-41.20	-29.45
2440MHz	Pass	8G	25G	AV	19.86759G	2.00	-63.33	-61.33	-41.20	-20.13
2440MHz	Pass	3.1G	4G	PK	3.26628G	2.00	-56.71	-54.71	-21.20	-33.51
2440MHz	Pass	4G	5G	PK	4.88025G	2.00	-61.47	-59.47	-21.20	-38.27
2440MHz	Pass	5G	7G	PK	5.1785G	2.00	-63.85	-61.85	-21.20	-40.65
2440MHz	Pass	7G	8G	PK	7.647G	2.00	-63.59	-61.59	-21.20	-40.39
2440MHz	Pass	8G	25G	PK	19.86441G	2.00	-53.60	-51.60	-21.20	-30.40
2478MHz	Pass	3.1G	4G	AV	3.26403G	2.00	-70.72	-68.72	-41.20	-27.52
2478MHz	Pass	4G	5G	AV	4.95625G	2.00	-72.73	-70.73	-41.20	-29.53
2478MHz	Pass	5G	7G	AV	5.1935G	2.00	-74.41	-72.41	-41.20	-31.21
2478MHz	Pass	7G	8G	AV	7.47725G	2.00	-72.02	-70.02	-41.20	-28.82
2478MHz	Pass	8G	25G	AV	16.05641G	2.00	-64.30	-62.30	-41.20	-21.10
2478MHz	Pass	3.1G	4G	PK	3.26448G	2.00	-60.63	-58.63	-21.20	-37.43
2478MHz	Pass	4G	5G	PK	4.956G	2.00	-63.84	-61.84	-21.20	-40.64
2478MHz	Pass	5G	7G	PK	5.1315G	2.00	-64.56	-62.56	-21.20	-41.36

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2478MHz	Pass	7G	8G	PK	7.46225G	2.00	-62.24	-60.24	-21.20	-39.04
2478MHz	Pass	8G	25G	PK	19.118G	2.00	-54.97	-52.97	-21.20	-31.77
2480MHz	Pass	3.1G	4G	AV	3.26515G	2.00	-73.67	-71.67	-41.20	-30.47
2480MHz	Pass	4G	5G	AV	4.96025G	2.00	-74.44	-72.44	-41.20	-31.24
2480MHz	Pass	5G	7G	AV	5.189G	2.00	-74.46	-72.46	-41.20	-31.26
2480MHz	Pass	7G	8G	AV	7.5005G	2.00	-71.60	-69.60	-41.20	-28.40
2480MHz	Pass	8G	25G	AV	16.09838G	2.00	-64.39	-62.39	-41.20	-21.19
2480MHz	Pass	3.1G	4G	PK	3.2602G	2.00	-64.53	-62.53	-21.20	-41.33
2480MHz	Pass	4G	5G	PK	4.96G	2.00	-64.06	-62.06	-21.20	-40.86
2480MHz	Pass	5G	7G	PK	5.359G	2.00	-64.20	-62.20	-21.20	-41.00
2480MHz	Pass	7G	8G	PK	7.4895G	2.00	-61.18	-59.18	-21.20	-37.98
2480MHz	Pass	8G	25G	PK	19.13288G	2.00	-54.99	-52.99	-21.20	-31.79
BT-LE(Symbol rate 2Mbps)										
2404MHz	Pass	3.1G	4G	AV	3.26673G	2.00	-67.17	-65.17	-41.20	-23.97
2404MHz	Pass	4G	5G	AV	4.80775G	2.00	-66.47	-64.47	-41.20	-23.27
2404MHz	Pass	5G	7G	AV	5.366G	2.00	-73.87	-71.87	-41.20	-30.67
2404MHz	Pass	7G	8G	AV	7.74325G	2.00	-73.27	-71.27	-41.20	-30.07
2404MHz	Pass	8G	25G	AV	19.05106G	2.00	-66.21	-64.21	-41.20	-23.01
2404MHz	Pass	3.1G	4G	PK	3.26335G	2.00	-58.30	-56.30	-21.20	-35.10
2404MHz	Pass	4G	5G	PK	4.80725G	2.00	-58.92	-56.92	-21.20	-35.72
2404MHz	Pass	5G	7G	PK	5.235G	2.00	-63.20	-61.20	-21.20	-40.00
2404MHz	Pass	7G	8G	PK	7.74525G	2.00	-62.43	-60.43	-21.20	-39.23
2404MHz	Pass	8G	25G	PK	15.77431G	2.00	-56.13	-54.13	-21.20	-32.93
2440MHz	Pass	3.1G	4G	AV	3.26605G	2.00	-67.21	-65.21	-41.20	-24.01
2440MHz	Pass	4G	5G	AV	4.879G	2.00	-69.17	-67.17	-41.20	-25.97
2440MHz	Pass	5G	7G	AV	5.2035G	2.00	-74.34	-72.34	-41.20	-31.14
2440MHz	Pass	7G	8G	AV	7.489G	2.00	-71.81	-69.81	-41.20	-28.61
2440MHz	Pass	8G	25G	AV	16.07766G	2.00	-64.34	-62.34	-41.20	-21.14
2440MHz	Pass	3.1G	4G	PK	3.26313G	2.00	-57.86	-55.86	-21.20	-34.66
2440MHz	Pass	4G	5G	PK	4.87925G	2.00	-61.99	-59.99	-21.20	-38.79
2440MHz	Pass	5G	7G	PK	5.206G	2.00	-64.31	-62.31	-21.20	-41.11
2440MHz	Pass	7G	8G	PK	7.4875G	2.00	-61.97	-59.97	-21.20	-38.77
2440MHz	Pass	8G	25G	PK	18.81678G	2.00	-55.19	-53.19	-21.20	-31.99
2478MHz	Pass	3.1G	4G	AV	3.26403G	2.00	-72.28	-70.28	-41.20	-29.08
2478MHz	Pass	4G	5G	AV	4.957G	2.00	-74.81	-72.81	-41.20	-31.61
2478MHz	Pass	5G	7G	AV	5.1885G	2.00	-74.66	-72.66	-41.20	-31.46
2478MHz	Pass	7G	8G	AV	7.48825G	2.00	-71.53	-69.53	-41.20	-28.33
2478MHz	Pass	8G	25G	AV	16.09784G	2.00	-64.13	-62.13	-41.20	-20.93
2478MHz	Pass	3.1G	4G	PK	3.26133G	2.00	-62.56	-60.56	-21.20	-39.36
2478MHz	Pass	4G	5G	PK	4.9575G	2.00	-64.50	-62.50	-21.20	-41.30
2478MHz	Pass	5G	7G	PK	5.1685G	2.00	-64.63	-62.63	-21.20	-41.43
2478MHz	Pass	7G	8G	PK	7.46775G	2.00	-62.64	-60.64	-21.20	-39.44



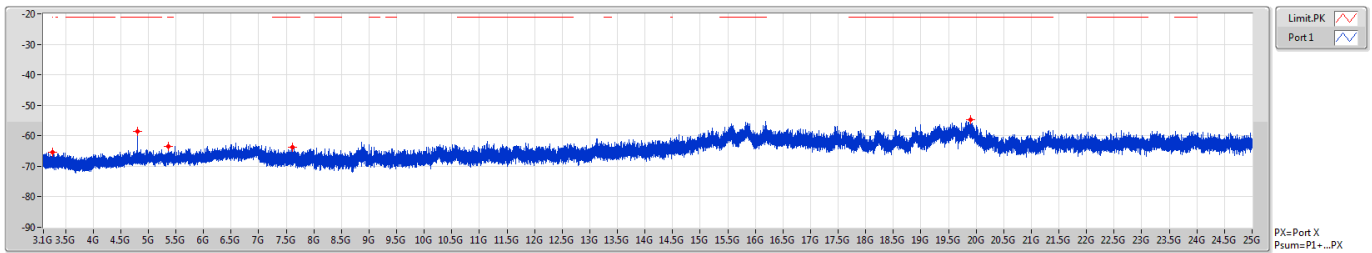
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2478MHz	Pass	8G	25G	PK	19.16953G	2.00	-54.92	-52.92	-21.20	-31.72

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

BT-LE(125kbps)

CSE-DTS [PK]

2402MHz

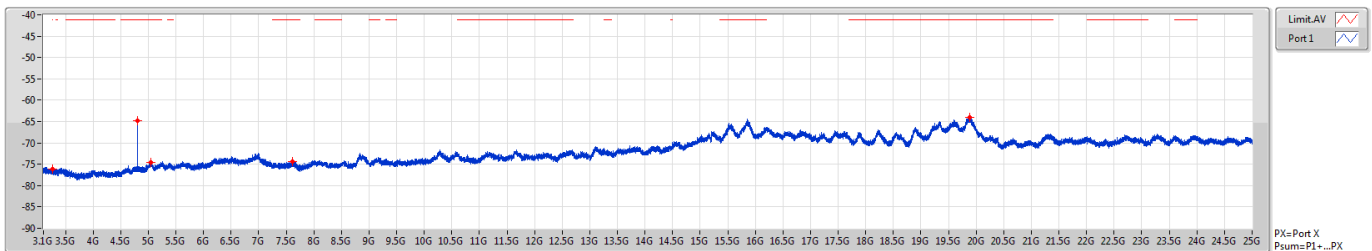


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	PK	3.2665G	-65.52	-65.52
4G	5G	1M	PK	4.80375G	-58.44	-58.44
5G	7G	1M	PK	5.3575G	-63.42	-63.42
7G	8G	1M	PK	7.61225G	-63.66	-63.66
8G	25G	1M	PK	19.89681G	-54.85	-54.85

BT-LE(125kbps)

CSE-DTS [AV]

2402MHz



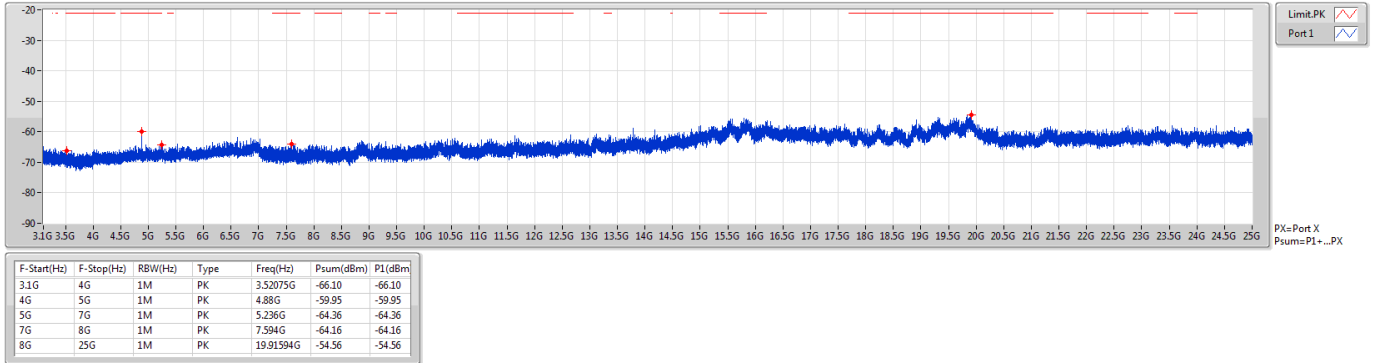
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
3.1G	4G	1M	AV	3.26583G	-76.22	-76.22
4G	5G	1M	AV	4.804G	-64.73	-64.73
5G	7G	1M	AV	5.0519G	-74.65	-74.65
7G	8G	1M	AV	7.6065G	-74.36	-74.36
8G	25G	1M	AV	19.87716G	-63.96	-63.96



BT-LE(125kbps)

CSE-DTS [PK]

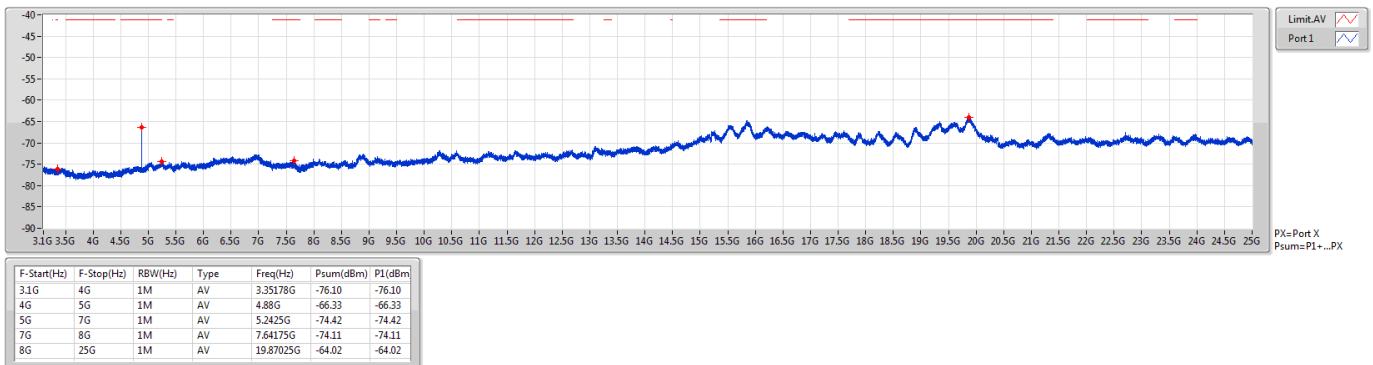
2440MHz



BT-LE(125kbps)

CSE-DTS [AV]

2440MHz

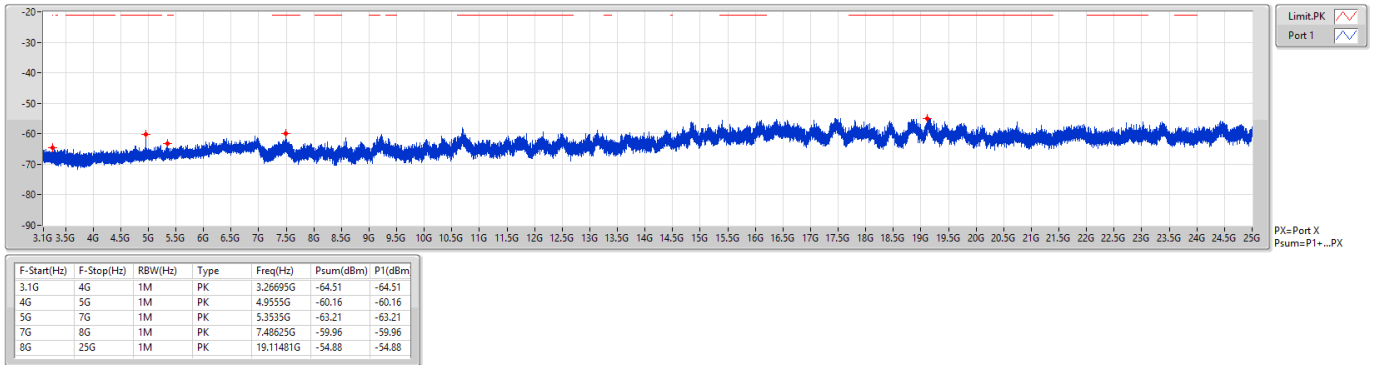




BT-LE(125kbps)

CSE-DTS [PK]

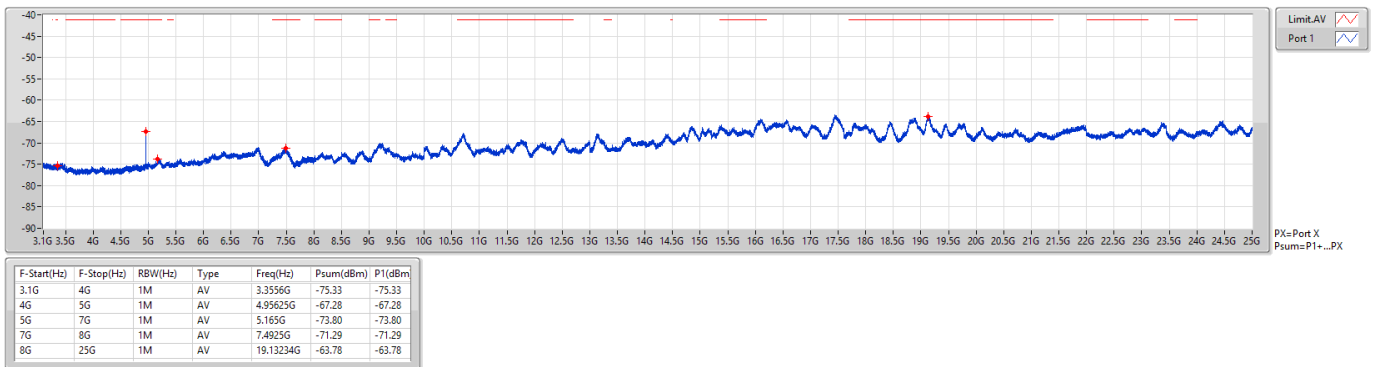
2478MHz



BT-LE(125kbps)

CSE-DTS [AV]

2478MHz

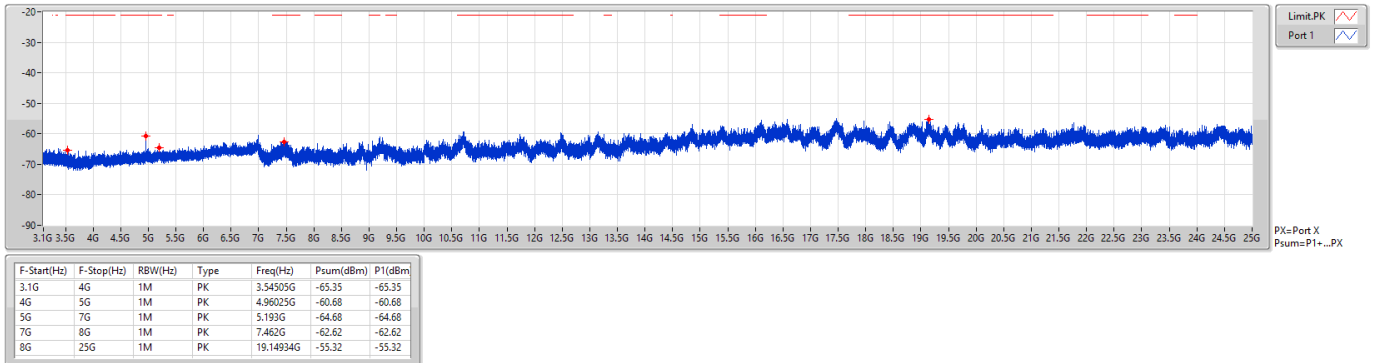




BT-LE(125kbps)

CSE-DTS [PK]

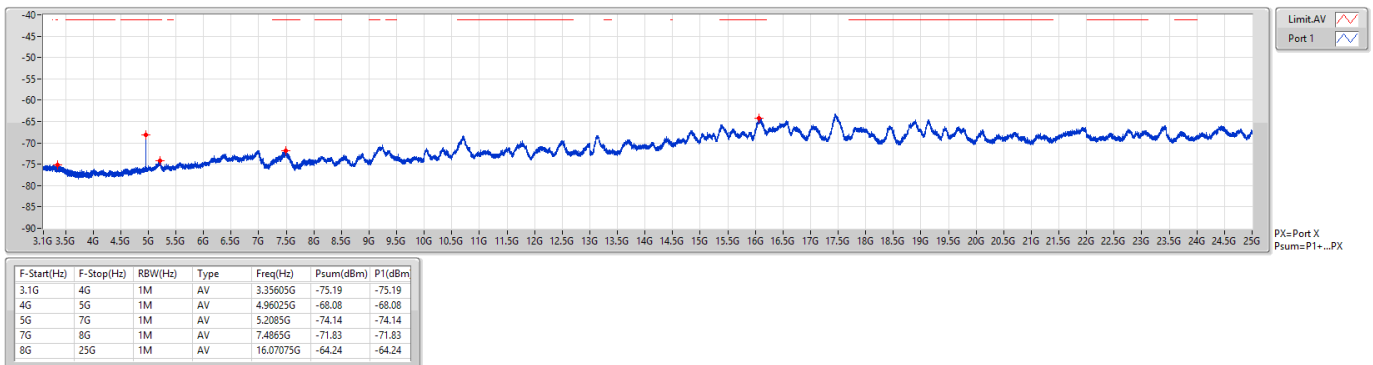
2480MHz



BT-LE(125kbps)

CSE-DTS [AV]

2480MHz

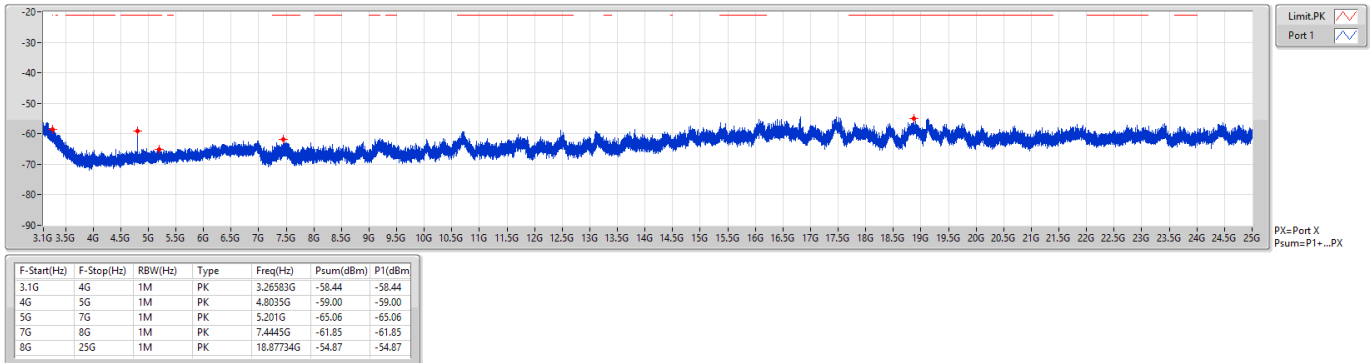




BT-LE(500kbps)

CSE-DTS [PK]

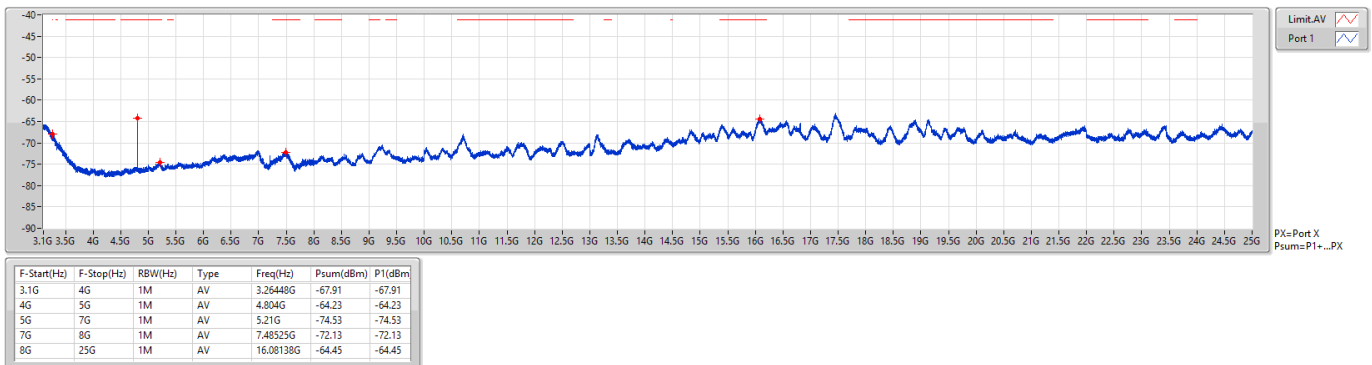
2402MHz



BT-LE(500kbps)

CSE-DTS [AV]

2402MHz

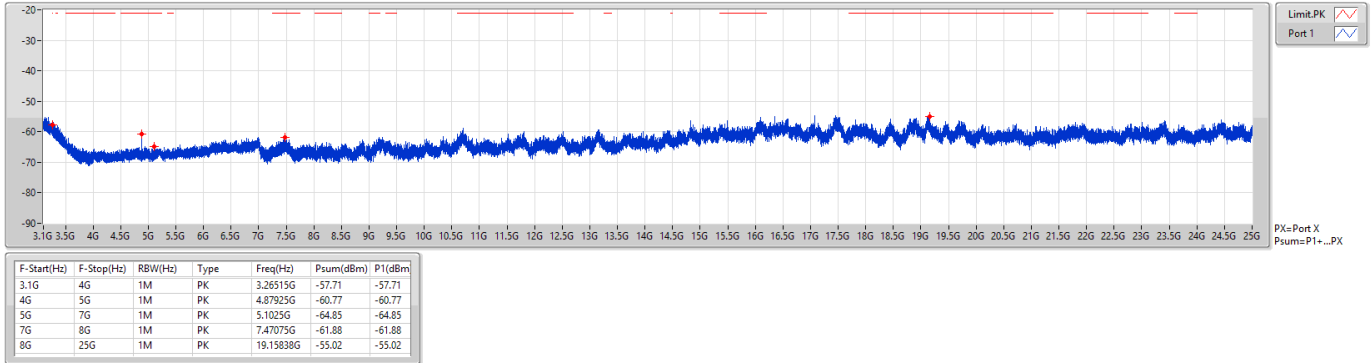




BT-LE(500kbps)

CSE-DTS [PK]

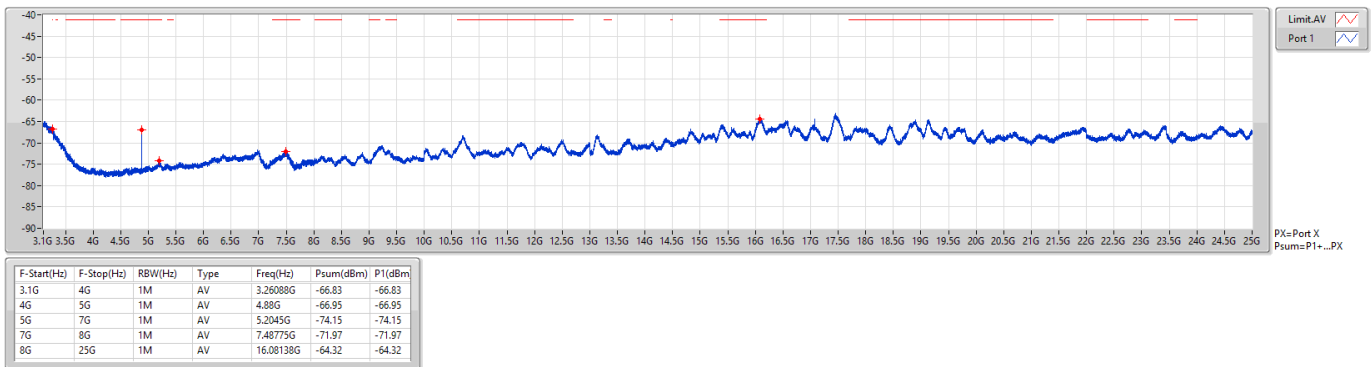
2440MHz



BT-LE(500kbps)

CSE-DTS [AV]

2440MHz

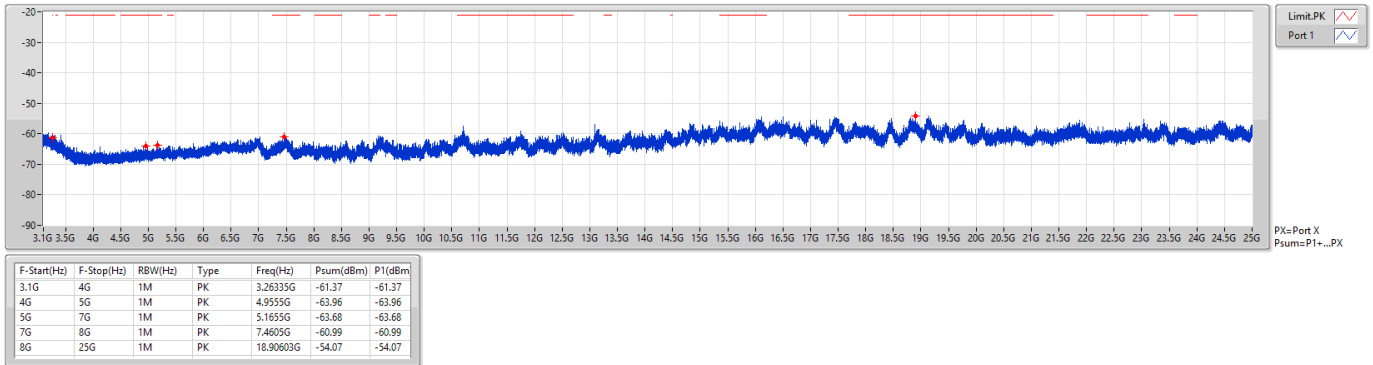




BT-LE(500kbps)

CSE-DTS [PK]

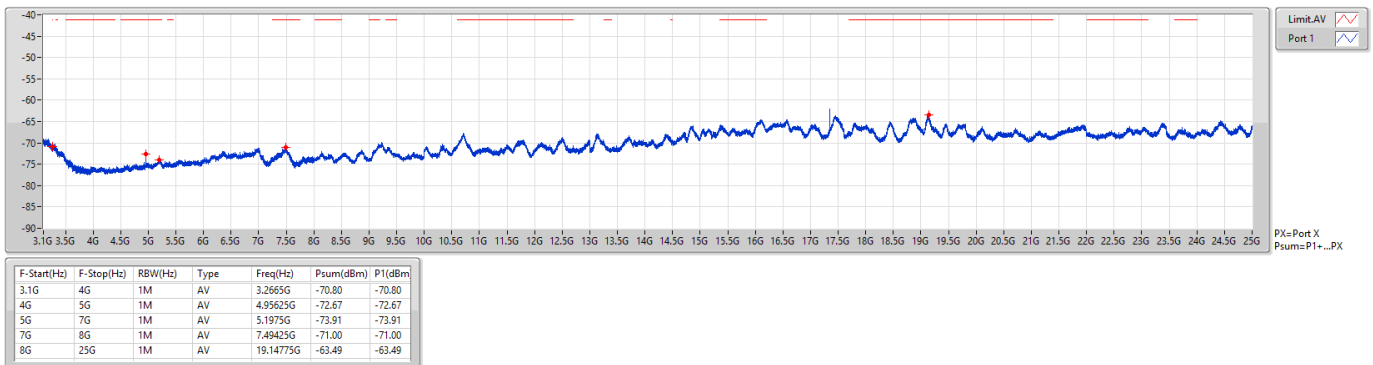
2478MHz



BT-LE(500kbps)

CSE-DTS [AV]

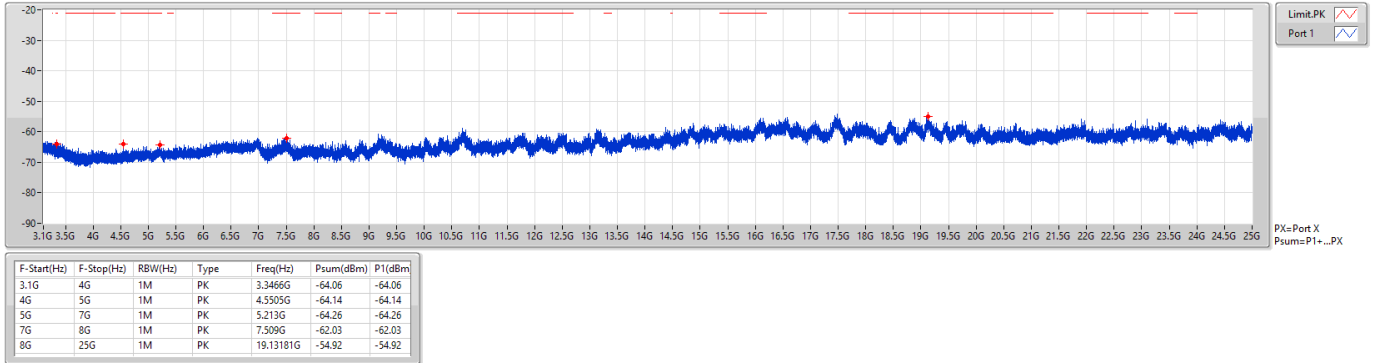
2478MHz



BT-LE(500kbps)

CSE-DTS [PK]

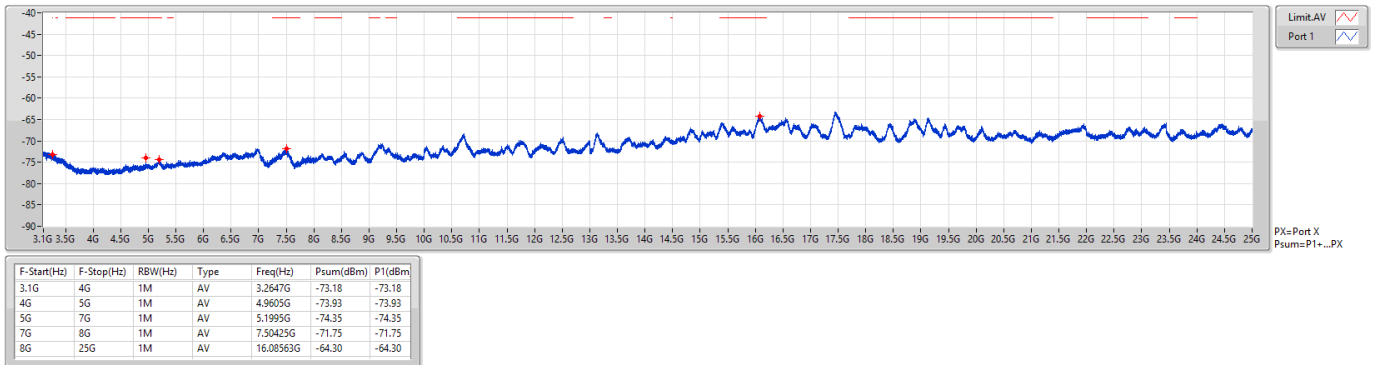
2480MHz



BT-LE(500kbps)

CSE-DTS [AV]

2480MHz

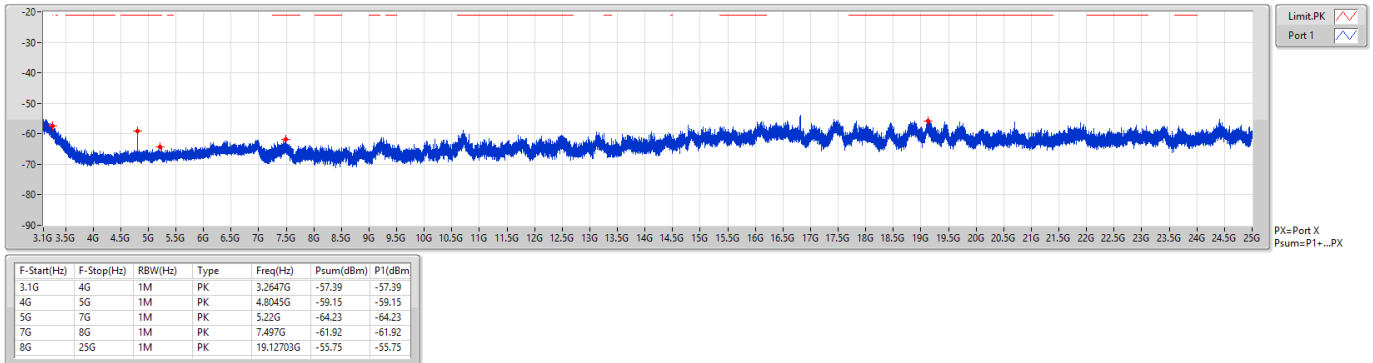




BT-LE(1Mbps)

CSE-DTS [PK]

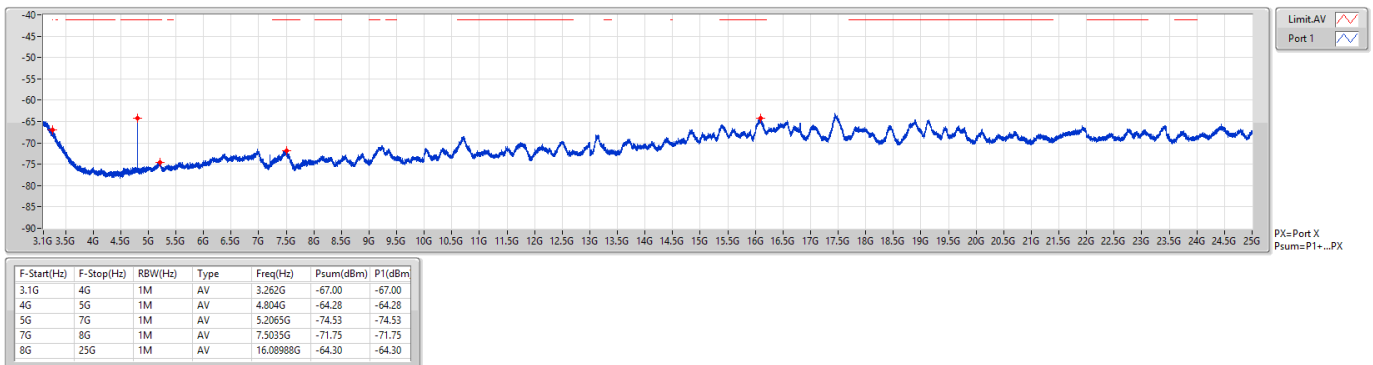
2402MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2402MHz

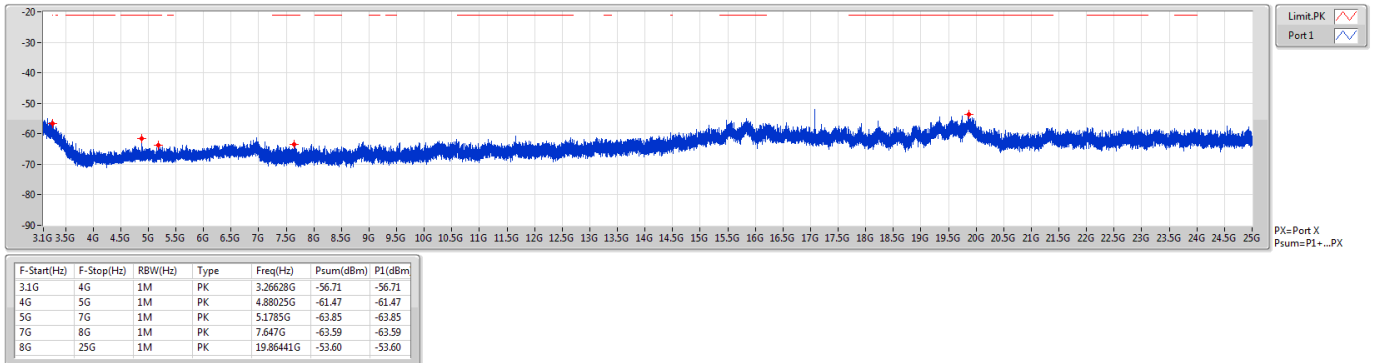




BT-LE(1Mbps)

CSE-DTS [PK]

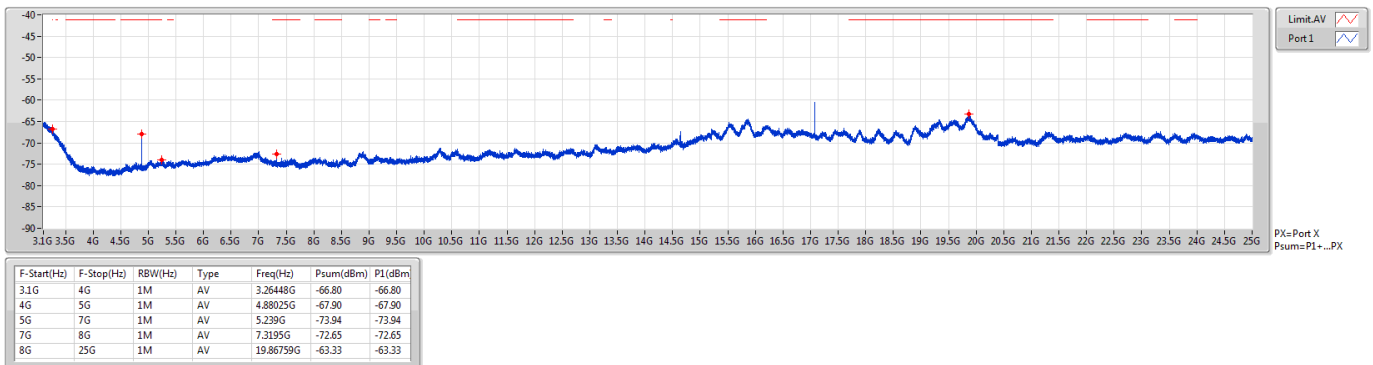
2440MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2440MHz

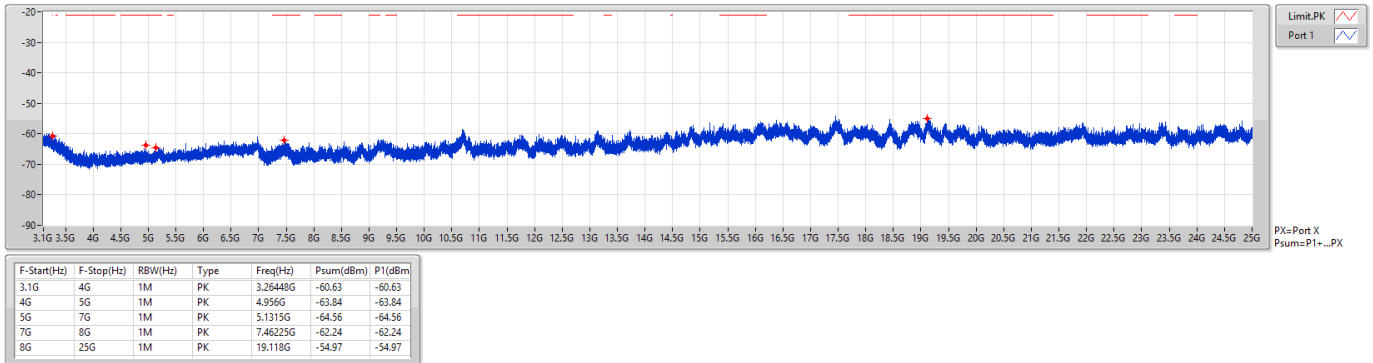




BT-LE(1Mbps)

CSE-DTS [PK]

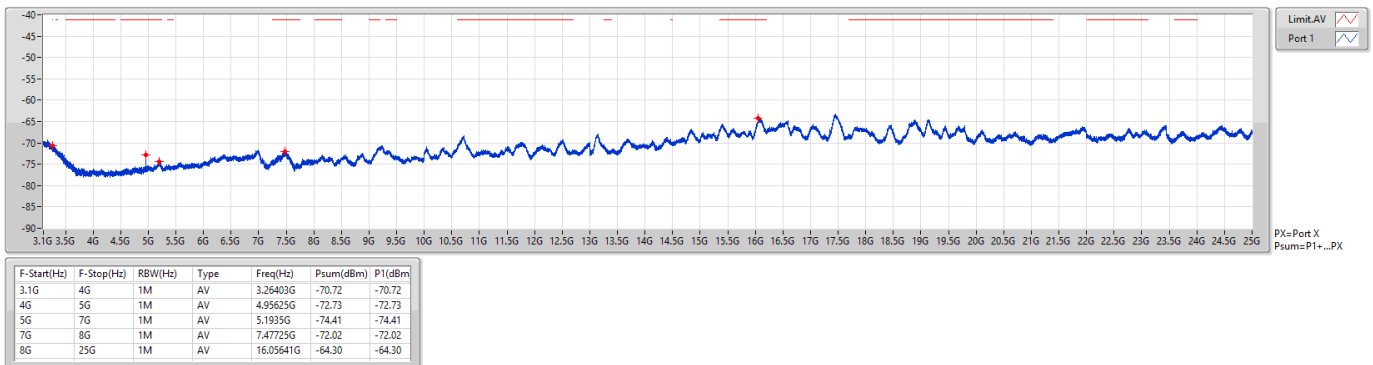
2478MHz



BT-LE(1Mbps)

CSE-DTS [AV]

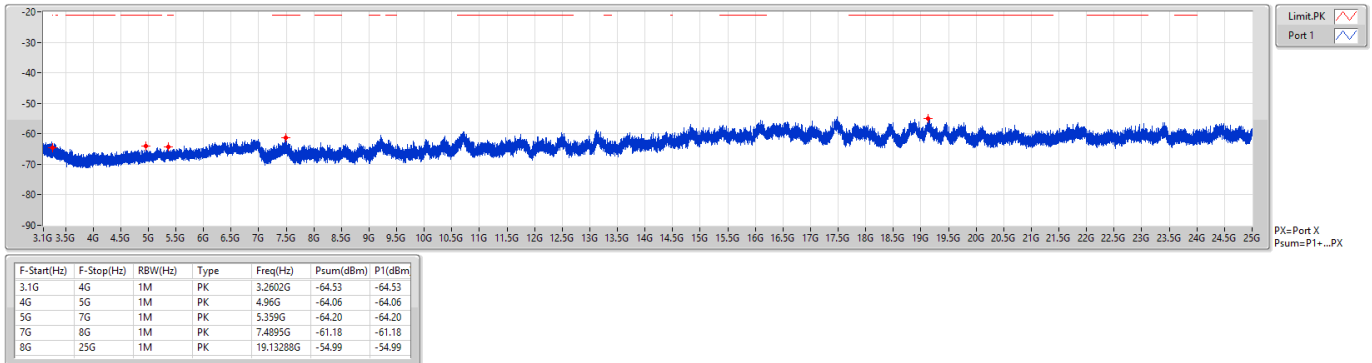
2478MHz



BT-LE(1Mbps)

CSE-DTS [PK]

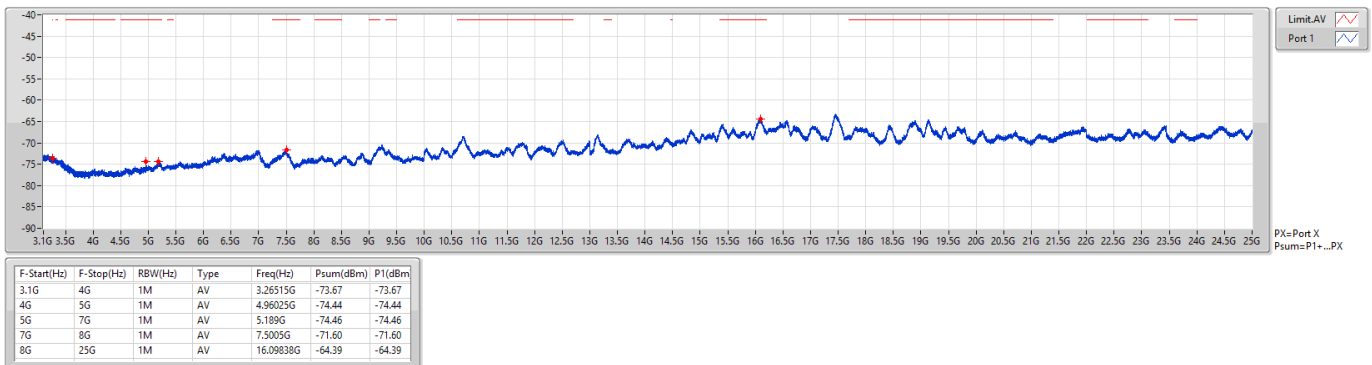
2480MHz



BT-LE(1Mbps)

CSE-DTS [AV]

2480MHz

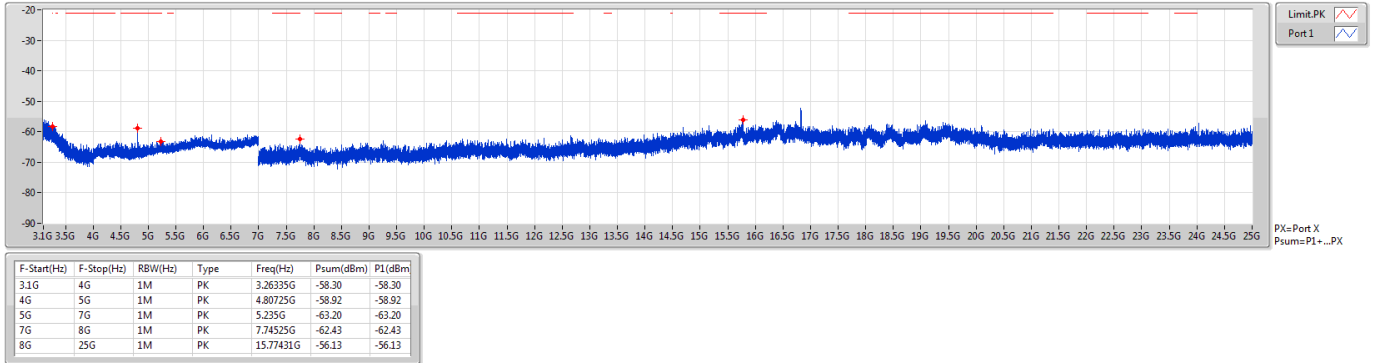




BT-LE(2Mbps)

CSE-DTS [PK]

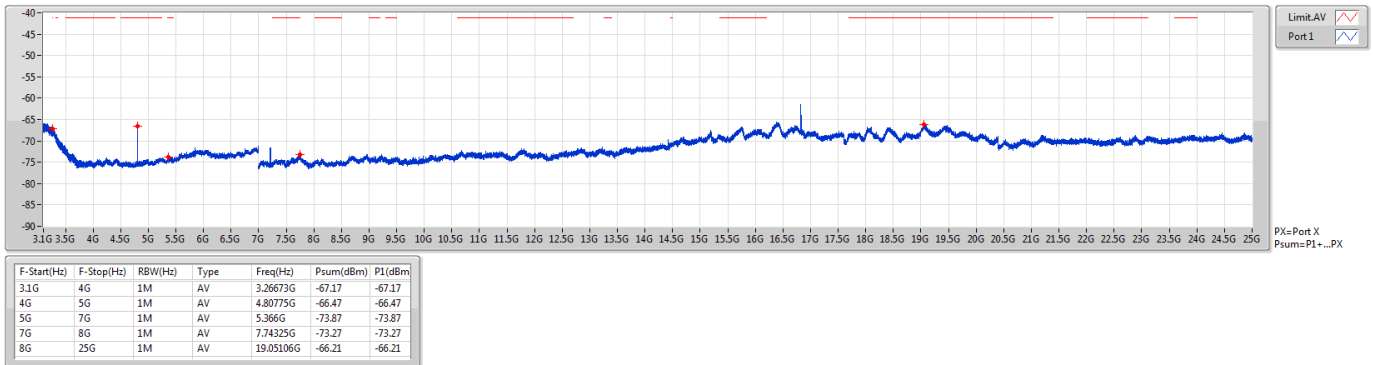
2404MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2404MHz

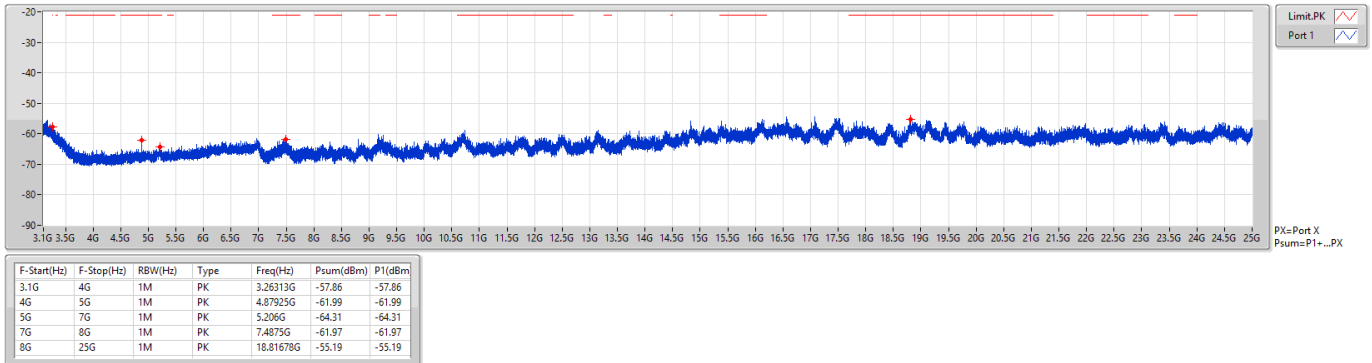




BT-LE(2Mbps)

CSE-DTS [PK]

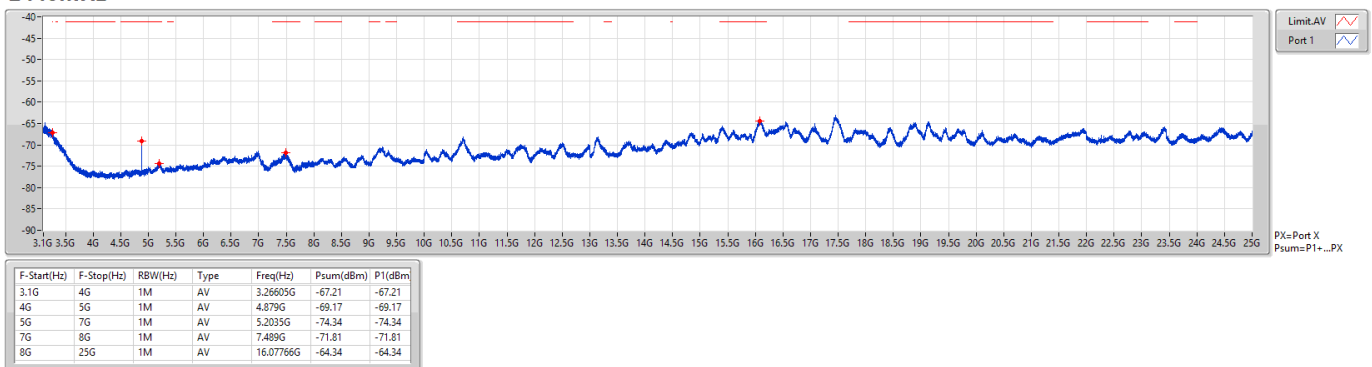
2440MHz



BT-LE(2Mbps)

CSE-DTS [AV]

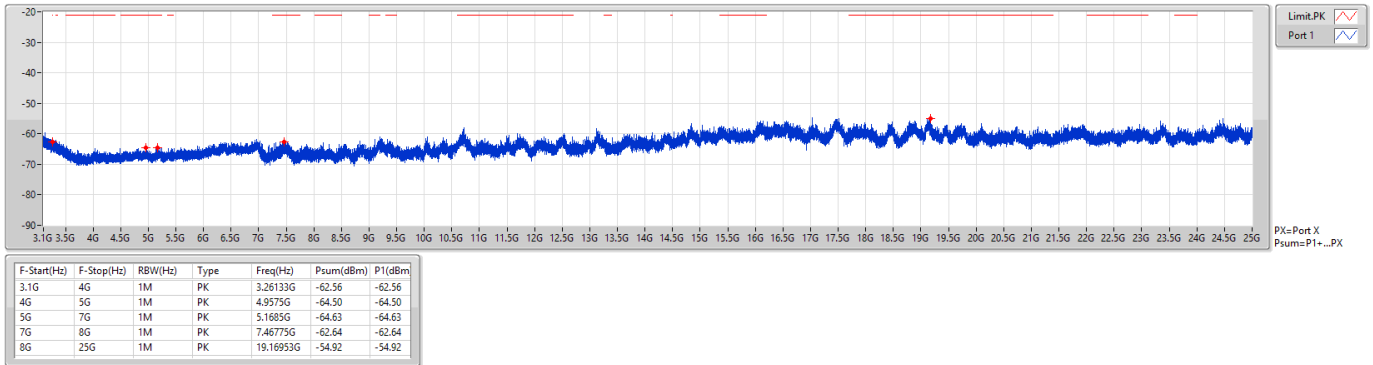
2440MHz



BT-LE(2Mbps)

CSE-DTS [PK]

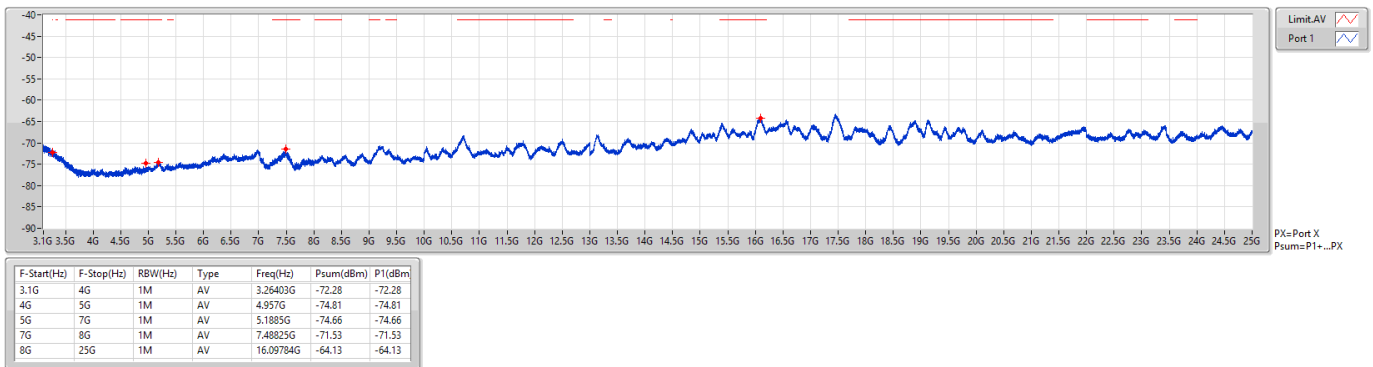
2478MHz



BT-LE(2Mbps)

CSE-DTS [AV]

2478MHz

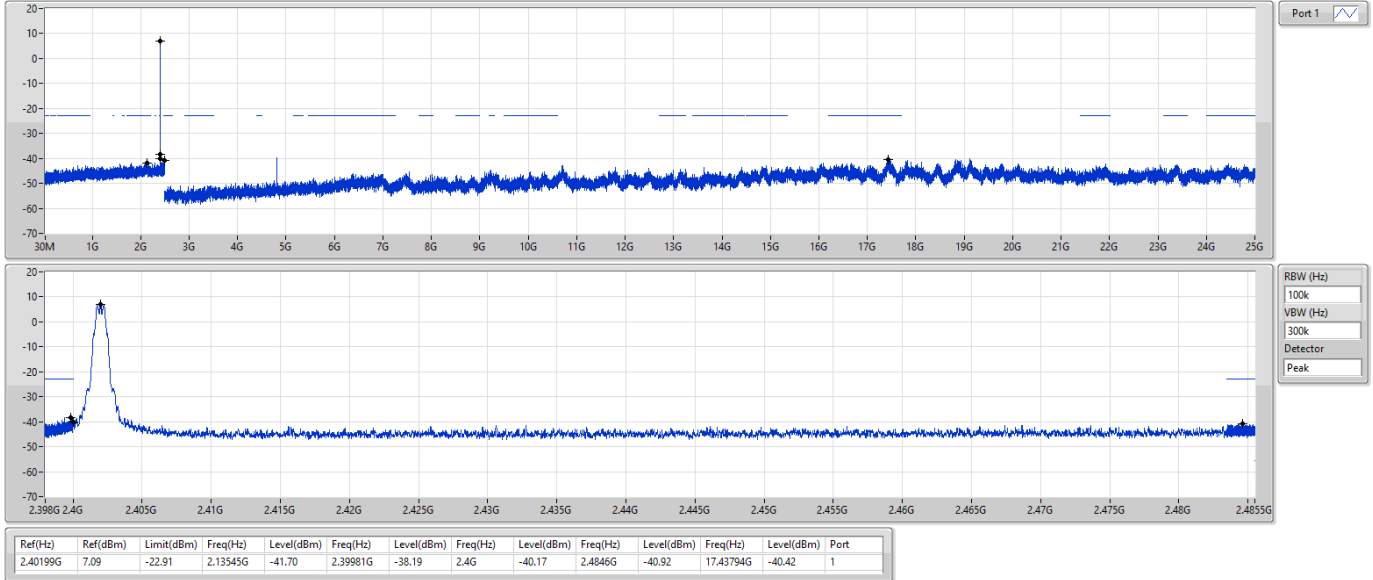


1) Configuration 1: Laird part number: 453-00142, 10dBm, Integrated Antenna

BT-LE(125kbps)

CSEndB-DTS

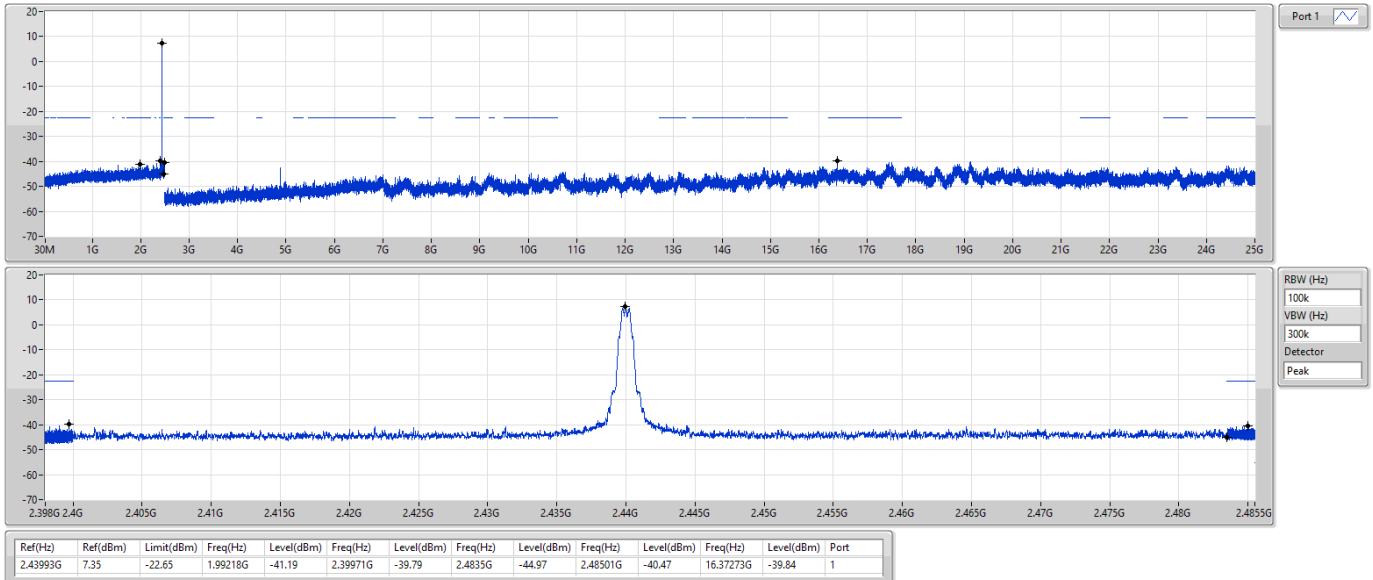
2402MHz



BT-LE(125kbps)

CSEndB-DTS

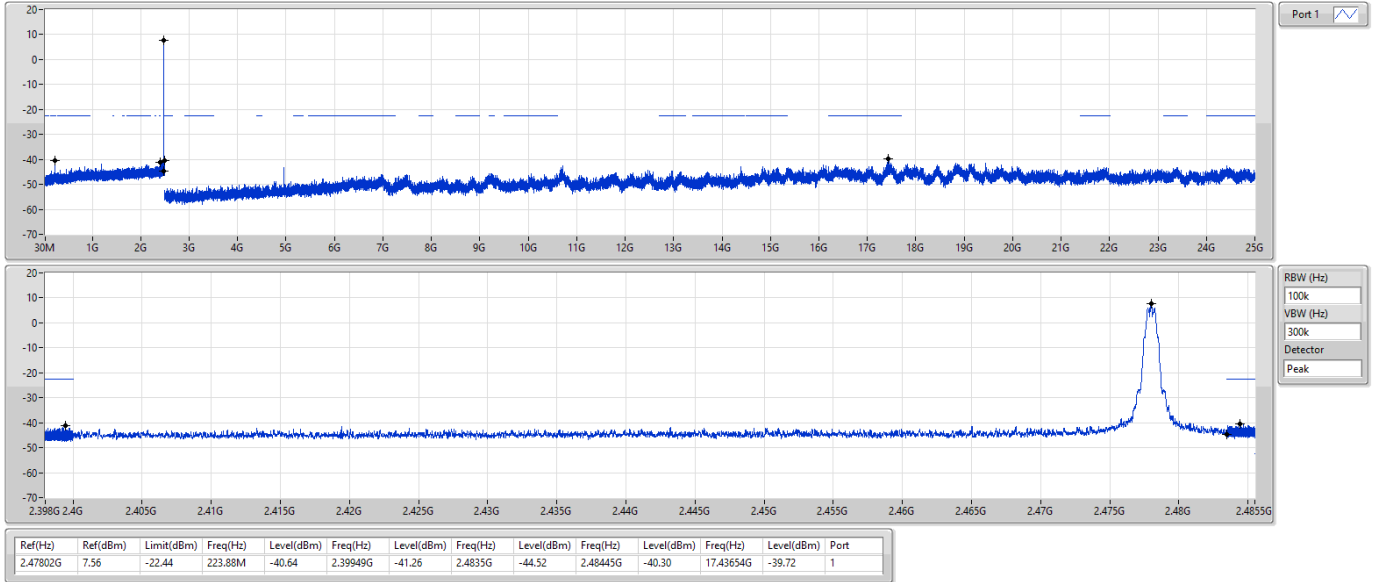
2440MHz



BT-LE(125kbps)

CSEndB-DTS

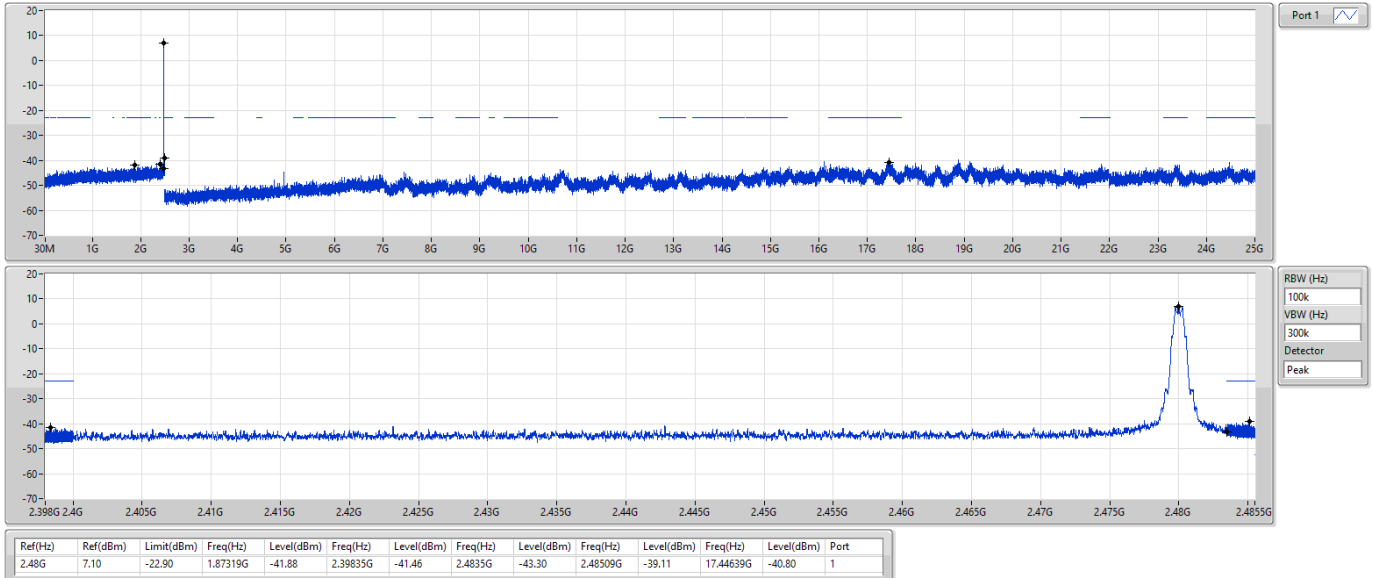
2478MHz



BT-LE(125kbps)

CSEndB-DTS

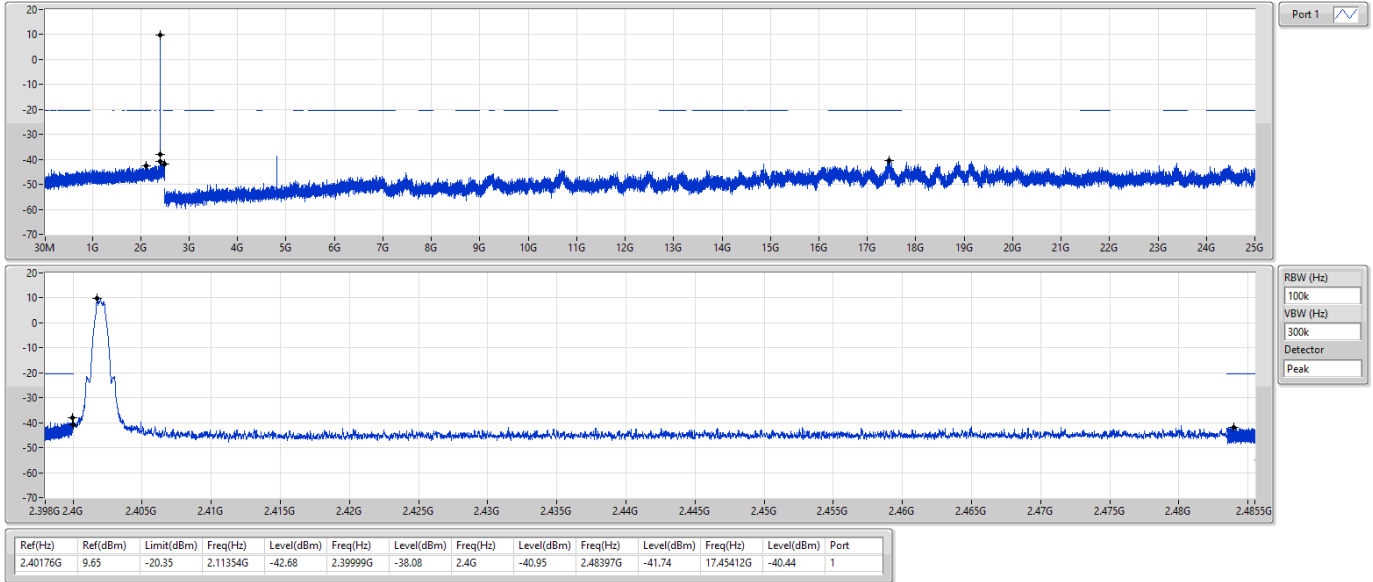
2480MHz



BT-LE(500kbps)

CSEndB-DTS

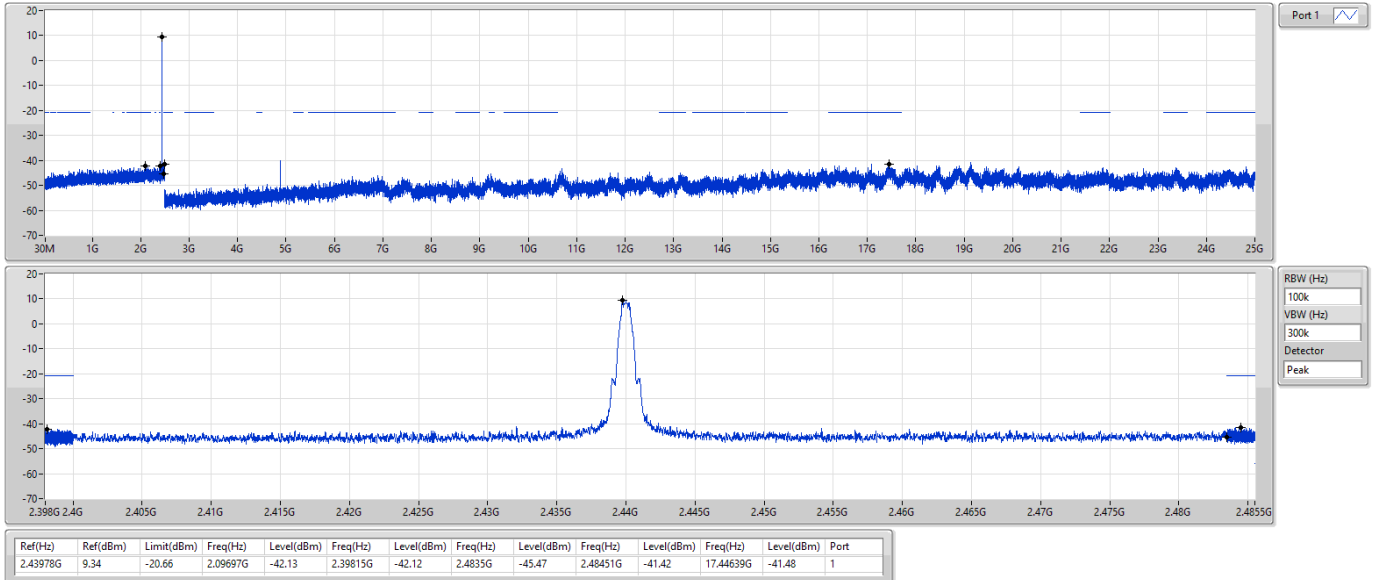
2402MHz



BT-LE(500kbps)

CSEndB-DTS

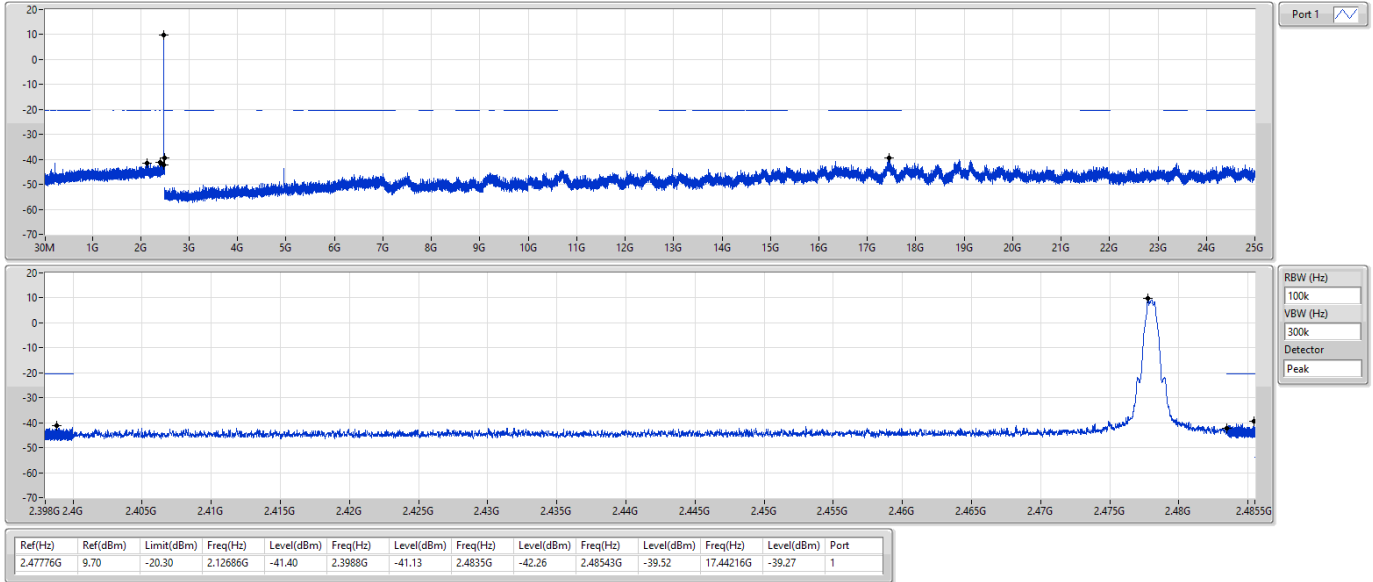
2440MHz



BT-LE(500kbps)

CSEndB-DTS

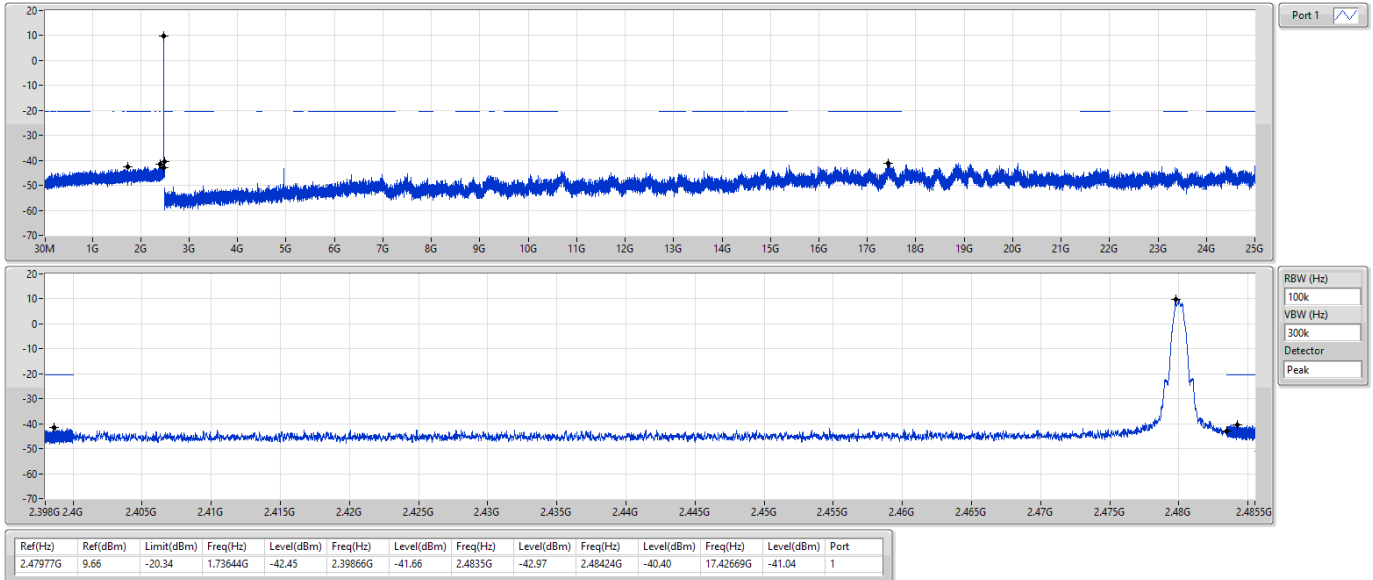
2478MHz



BT-LE(500kbps)

CSEndB-DTS

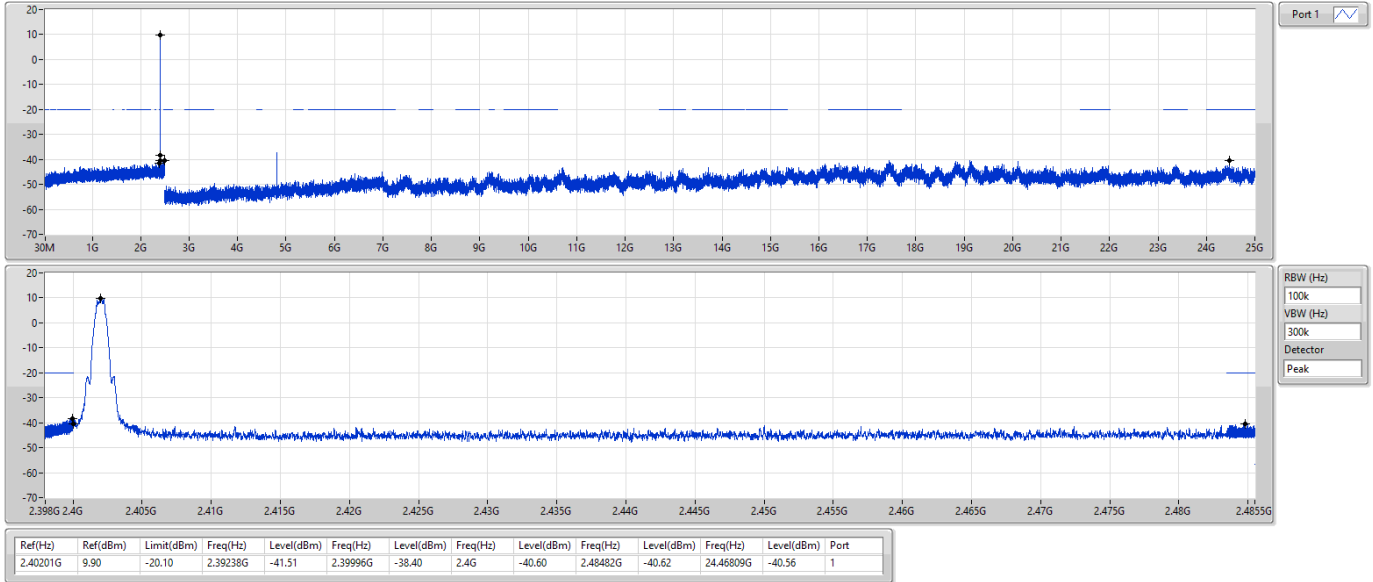
2480MHz



BT-LE(1Mbps)

CSEndB-DTS

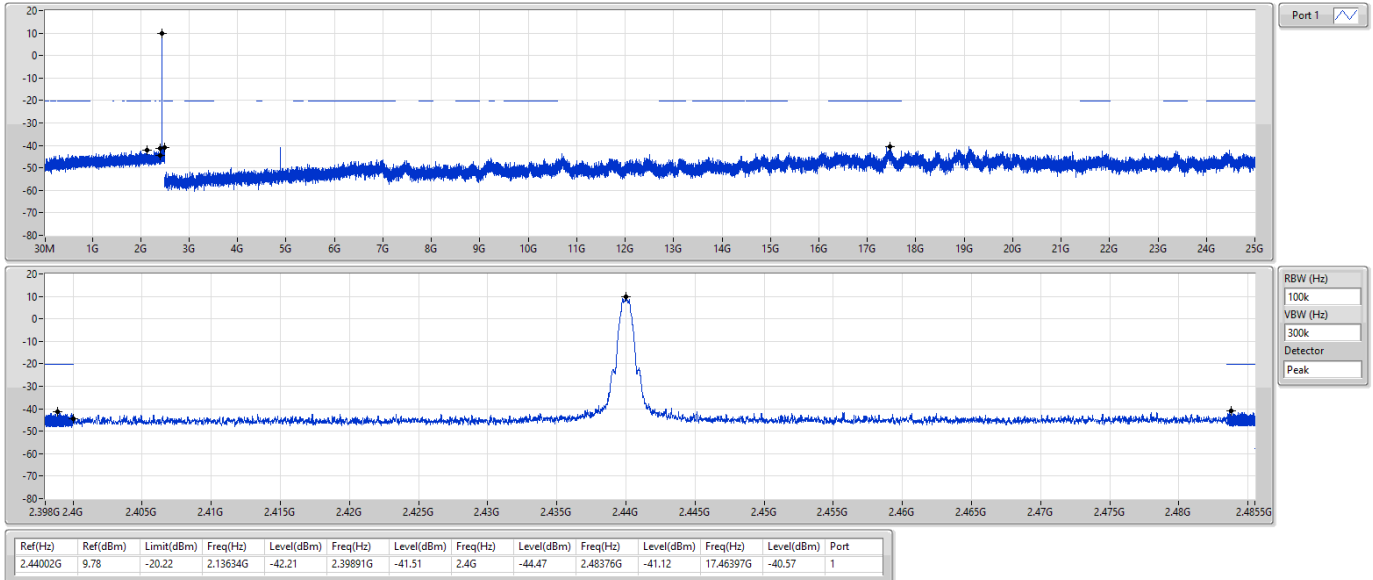
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

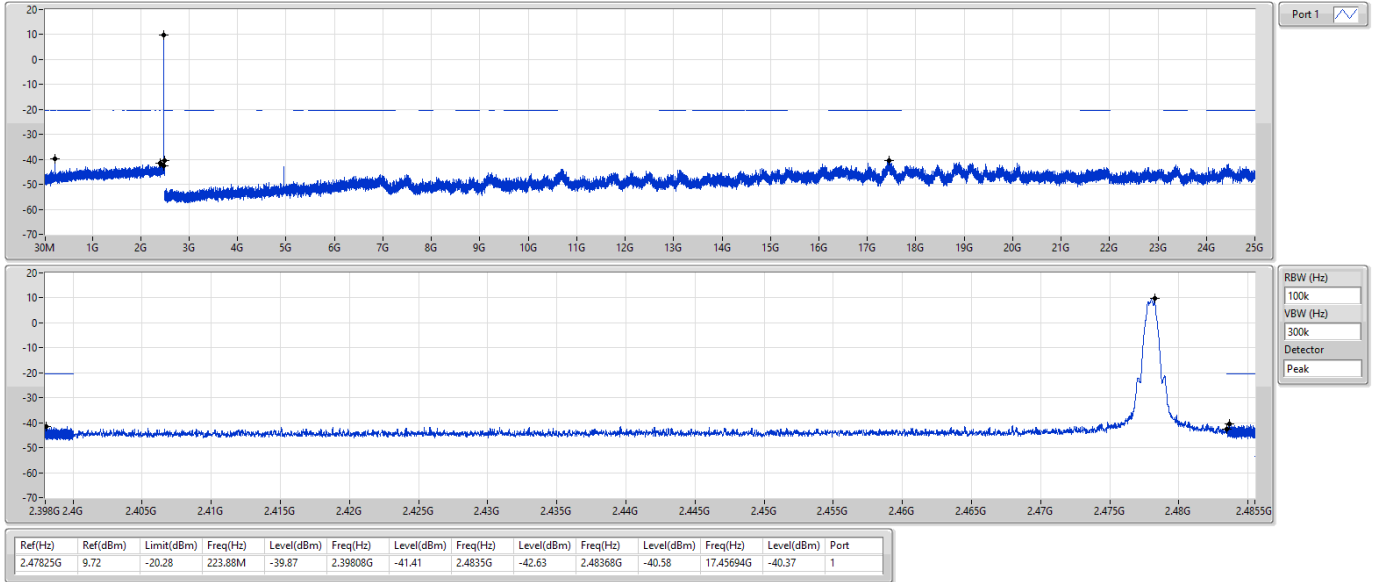
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

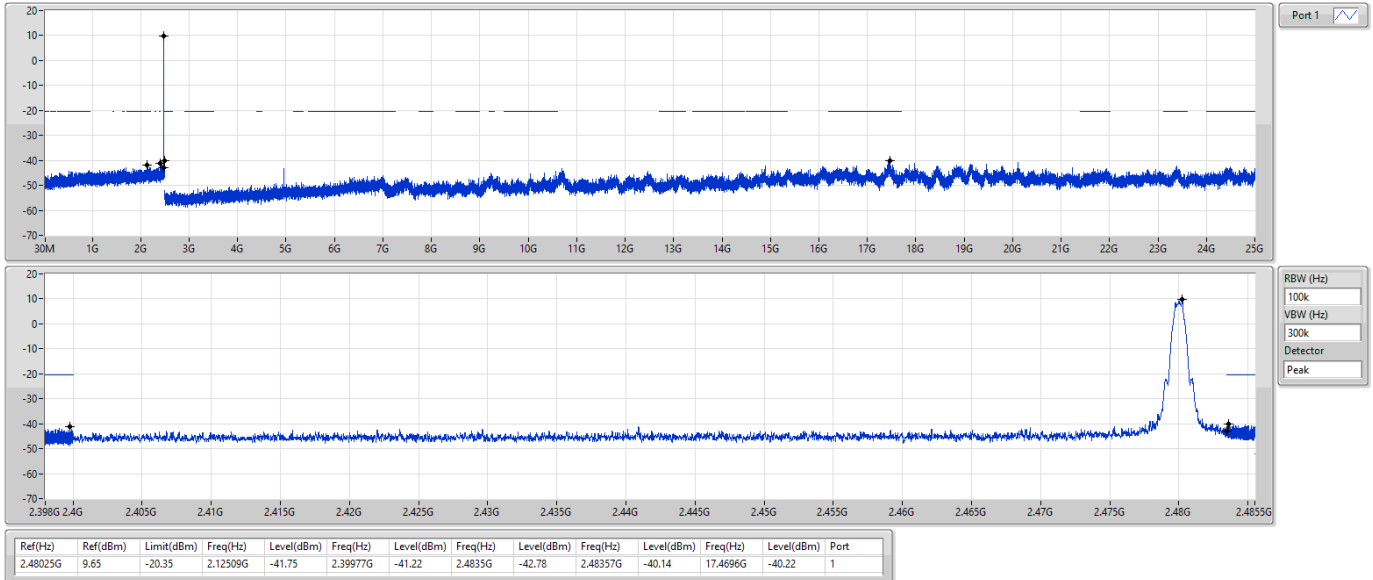
2478MHz



BT-LE(1Mbps)

CSEndB-DTS

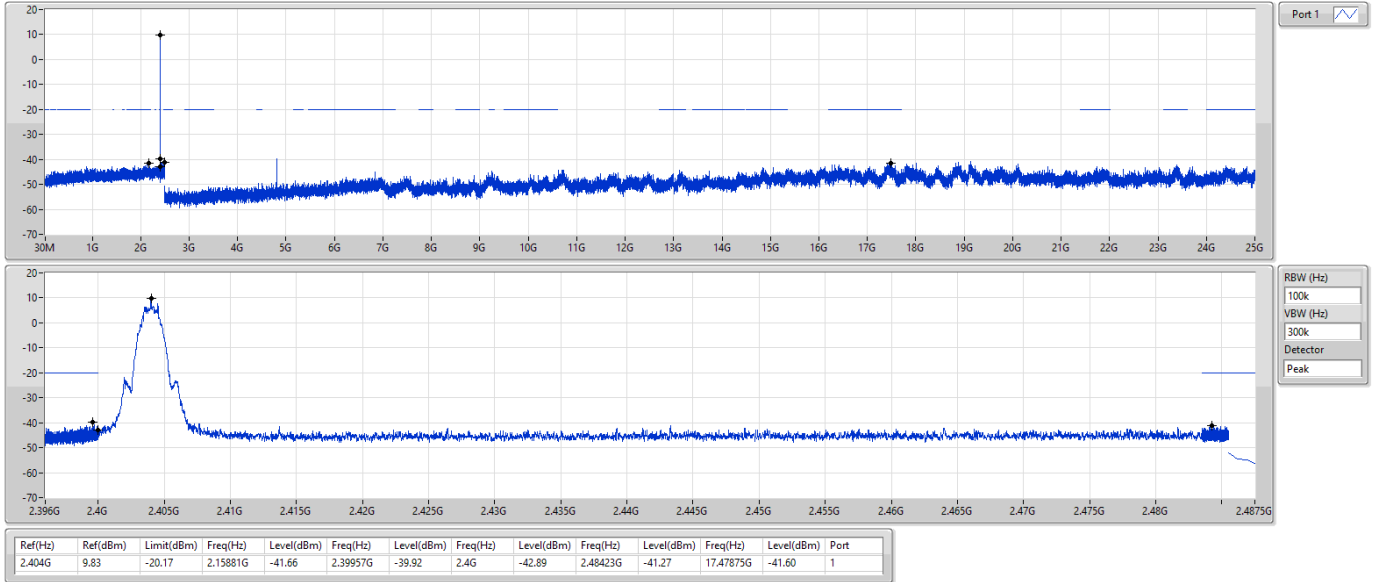
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

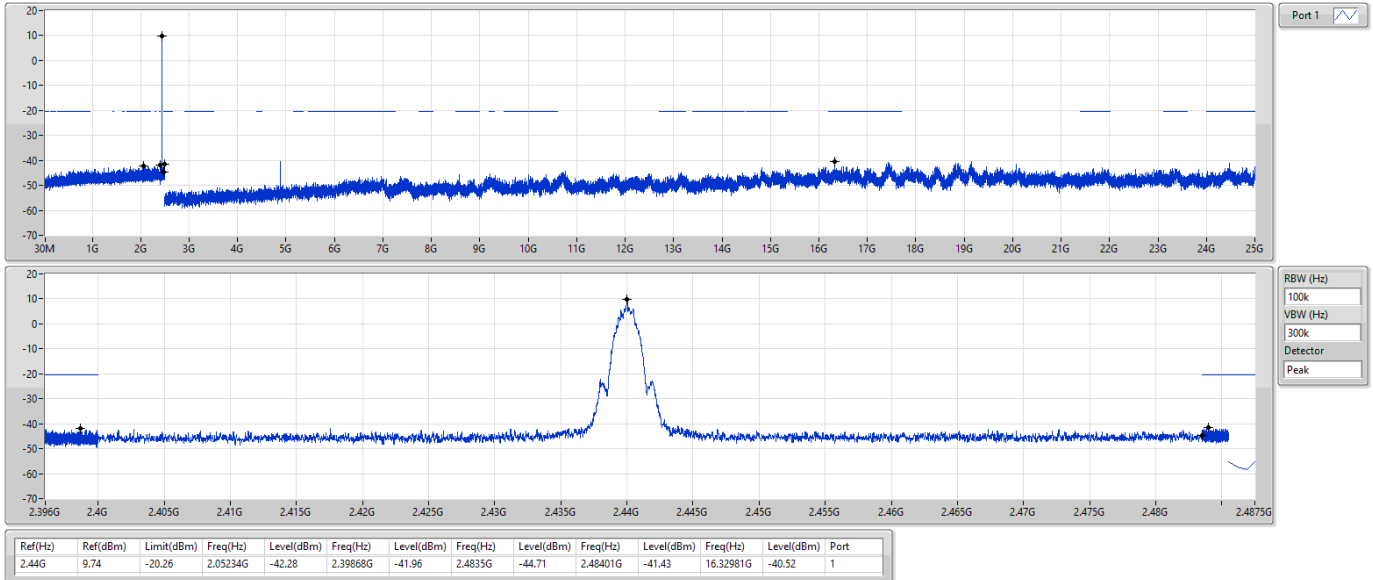
2404MHz



BT-LE(2Mbps)

CSEndB-DTS

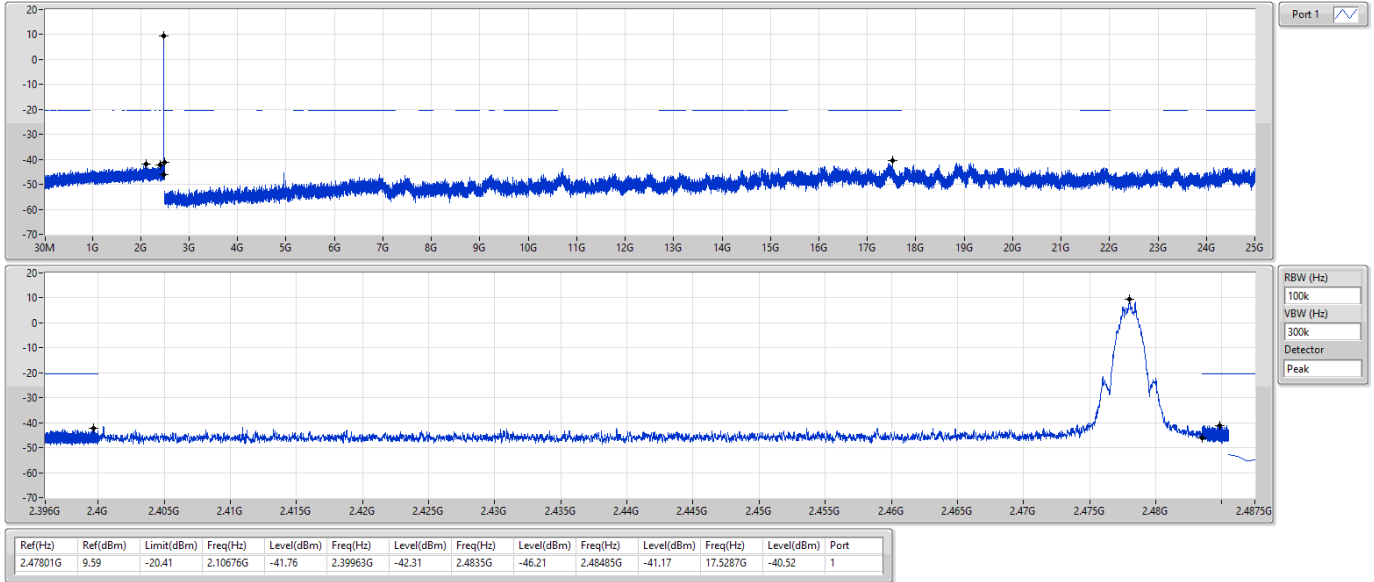
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

2478MHz

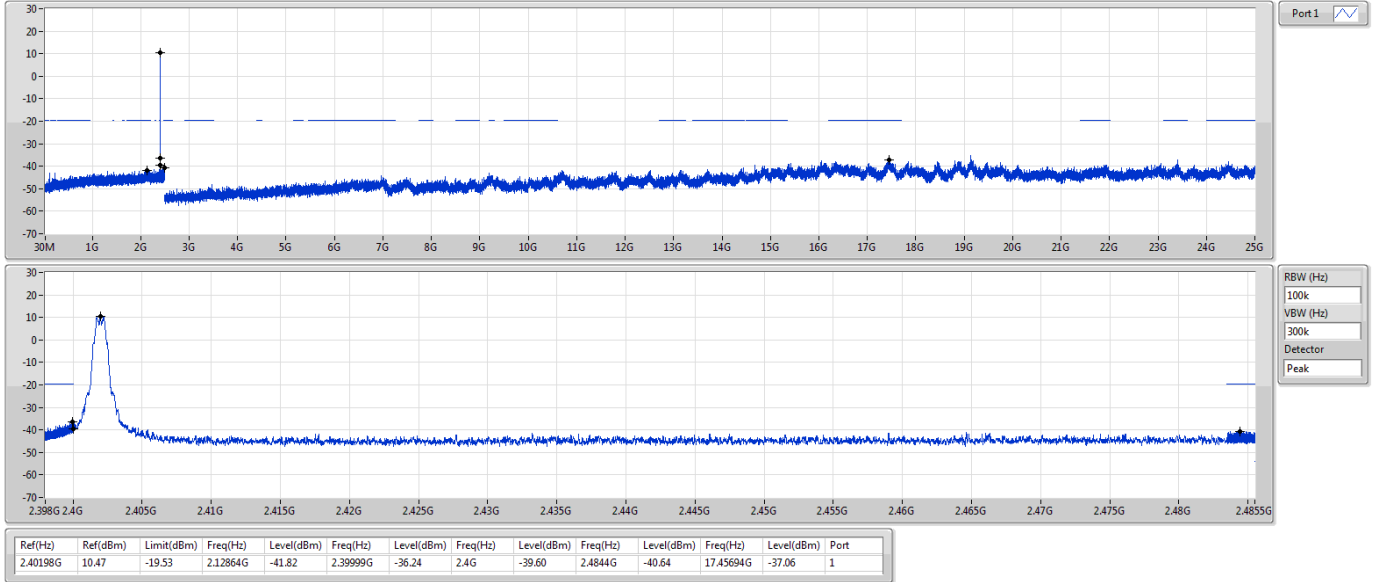


2) Configuration 2: Laird part number: 453-00145, 20dBm, Integrated Antenna

BT-LE(125kbps)

CSEndB-DTS

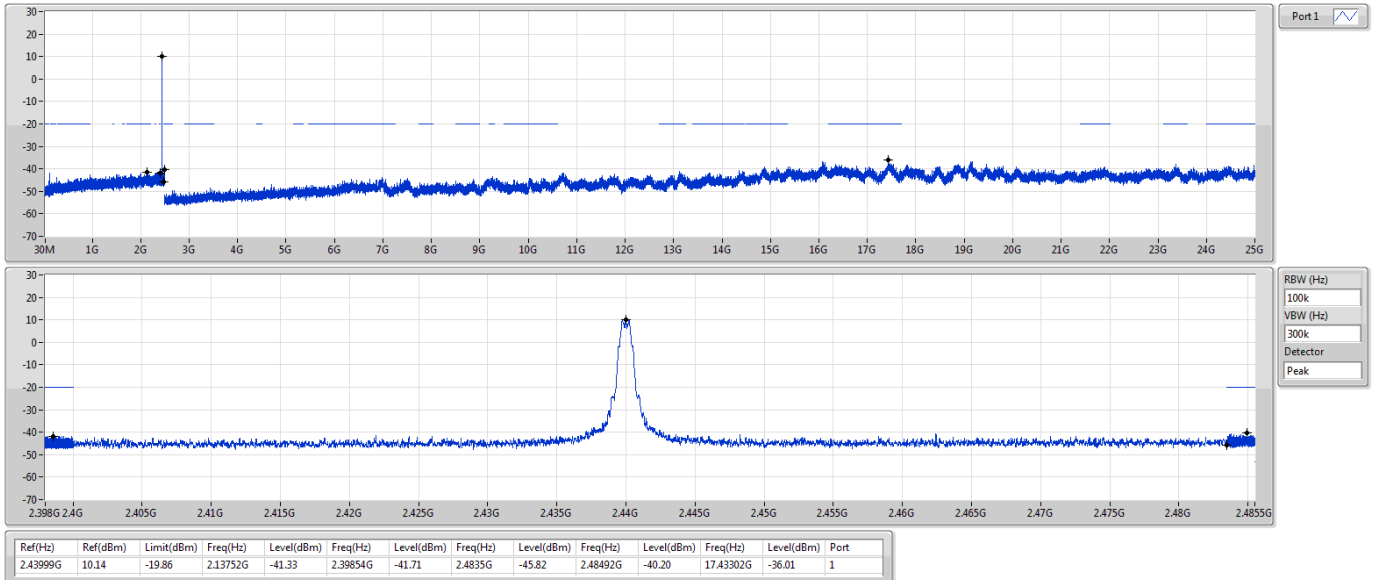
2402MHz



BT-LE(125kbps)

CSEndB-DTS

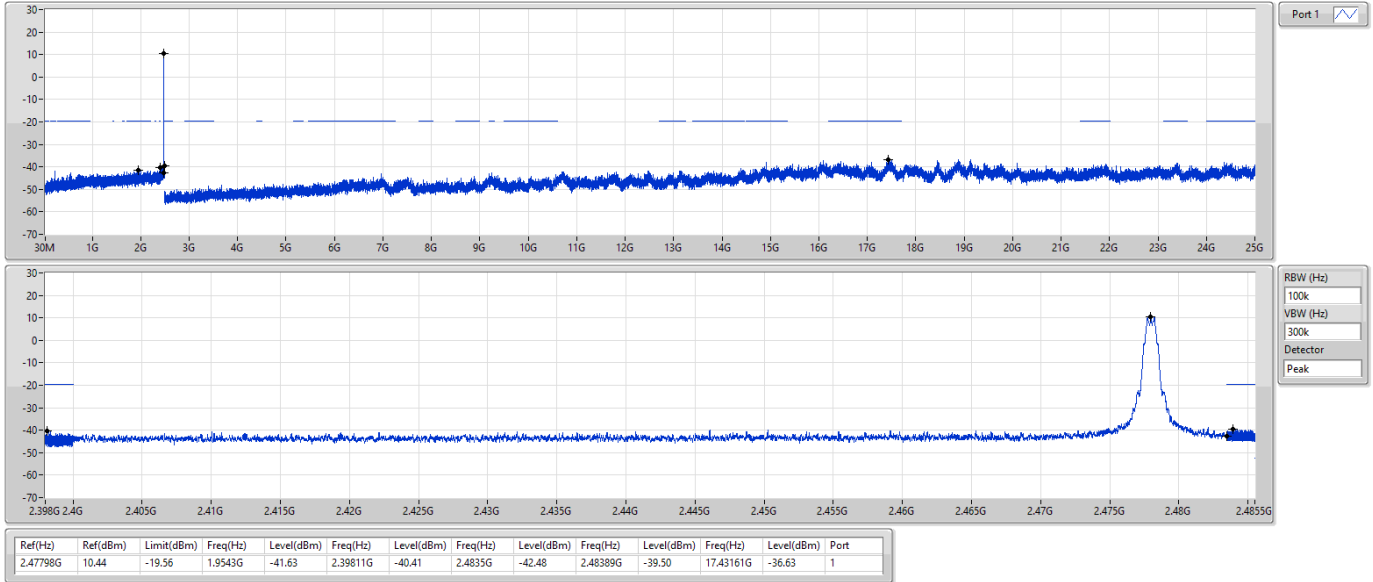
2440MHz



BT-LE(125kbps)

CSEndB-DTS

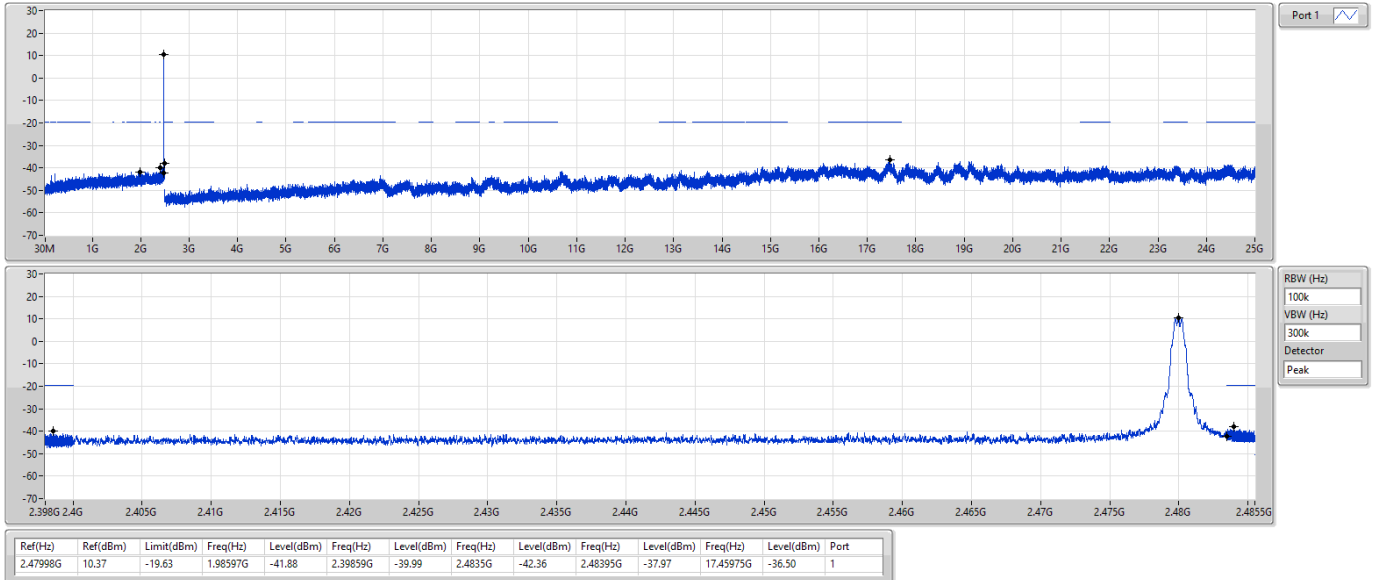
2478MHz



BT-LE(125kbps)

CSEndB-DTS

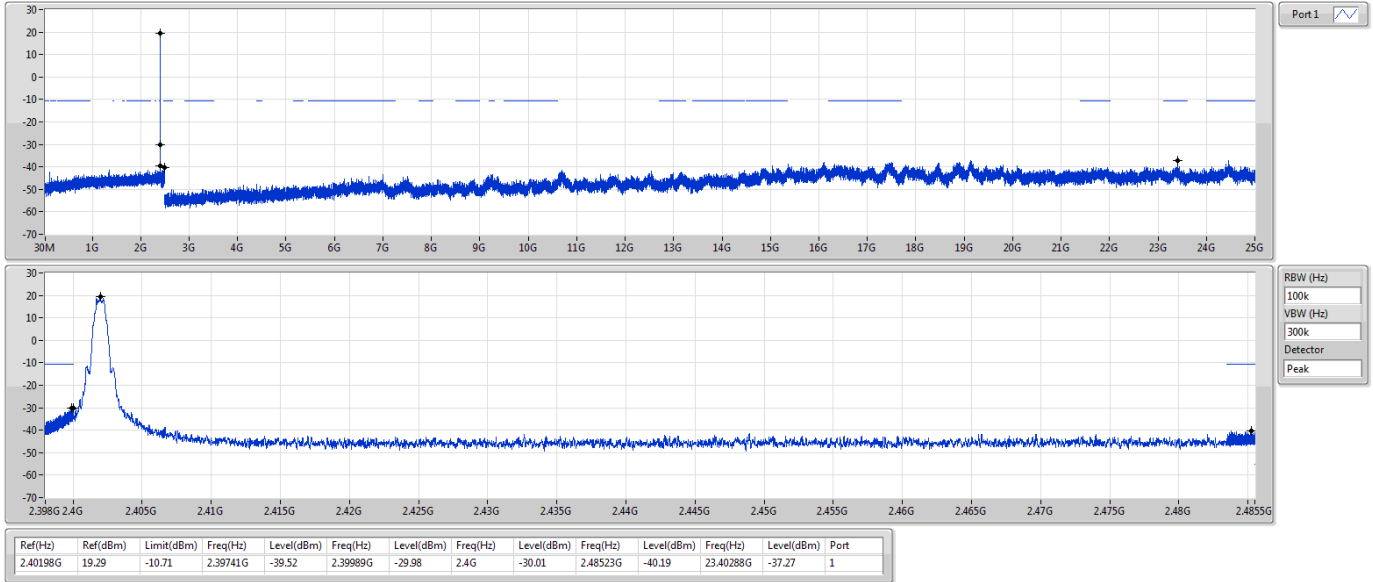
2480MHz



BT-LE(500kbps)

CSEndB-DTS

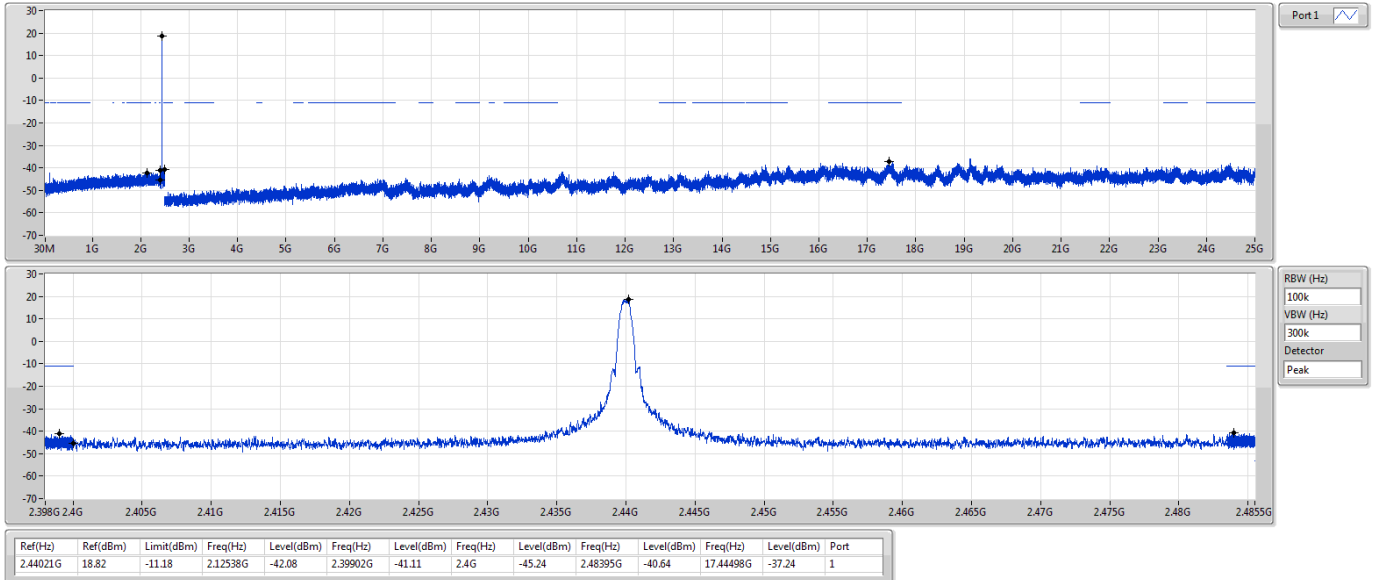
2402MHz



BT-LE(500kbps)

CSEndB-DTS

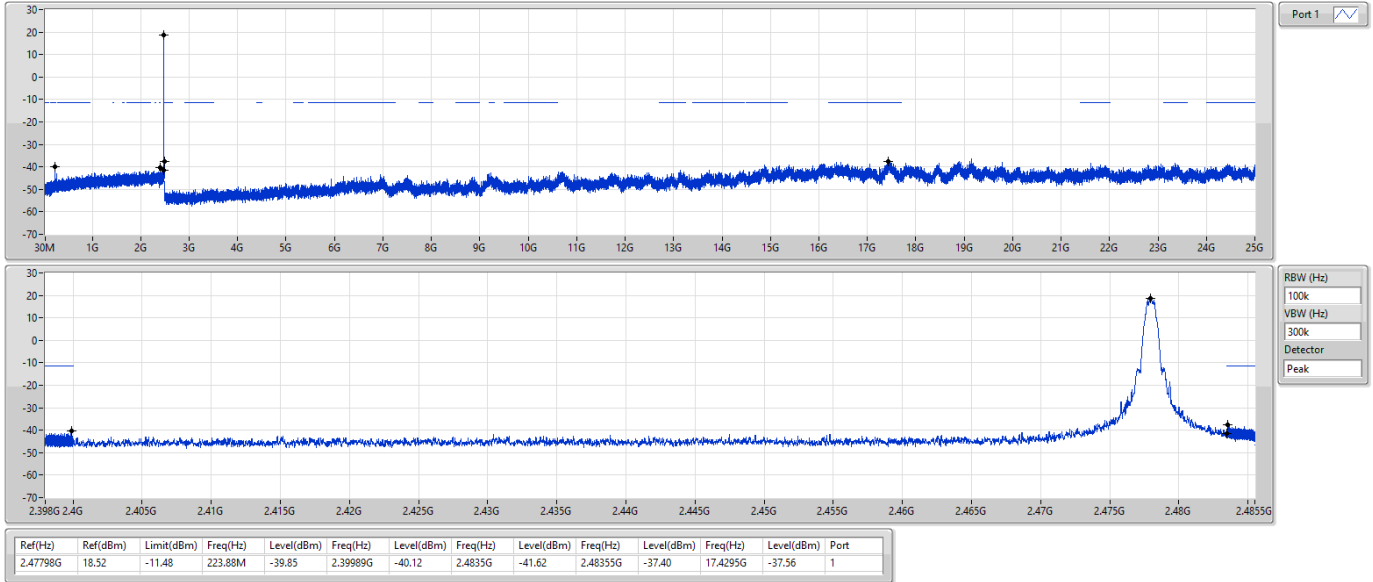
2440MHz



BT-LE(500kbps)

CSEndB-DTS

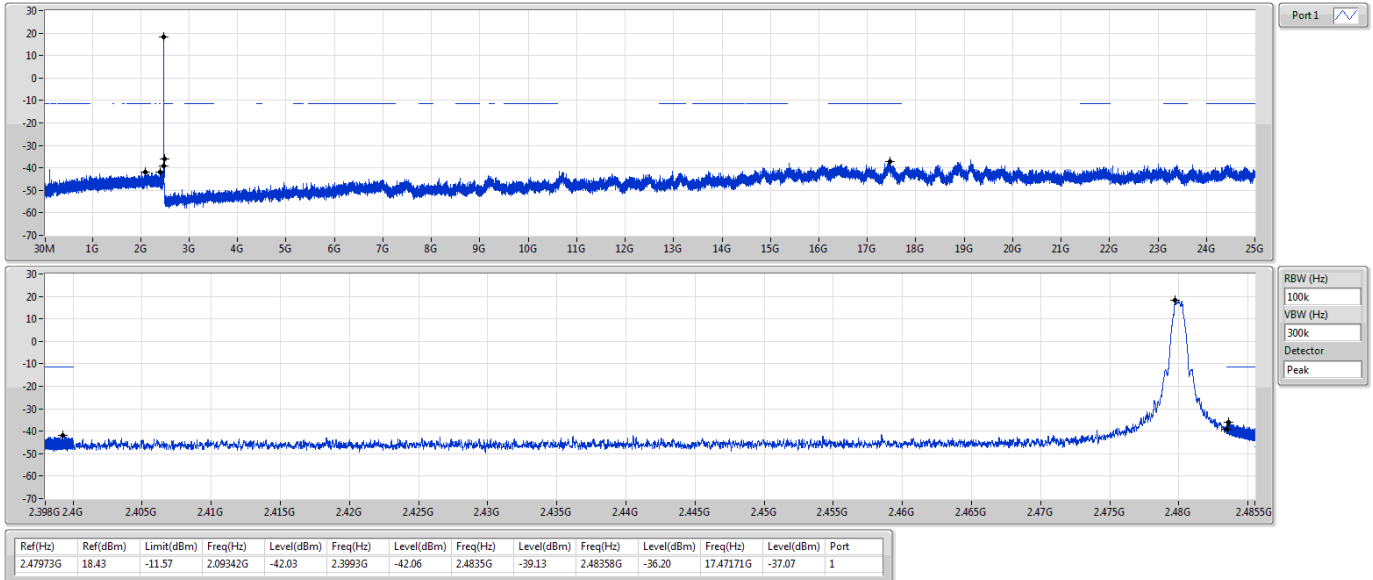
2478MHz



BT-LE(500kbps)

CSEndB-DTS

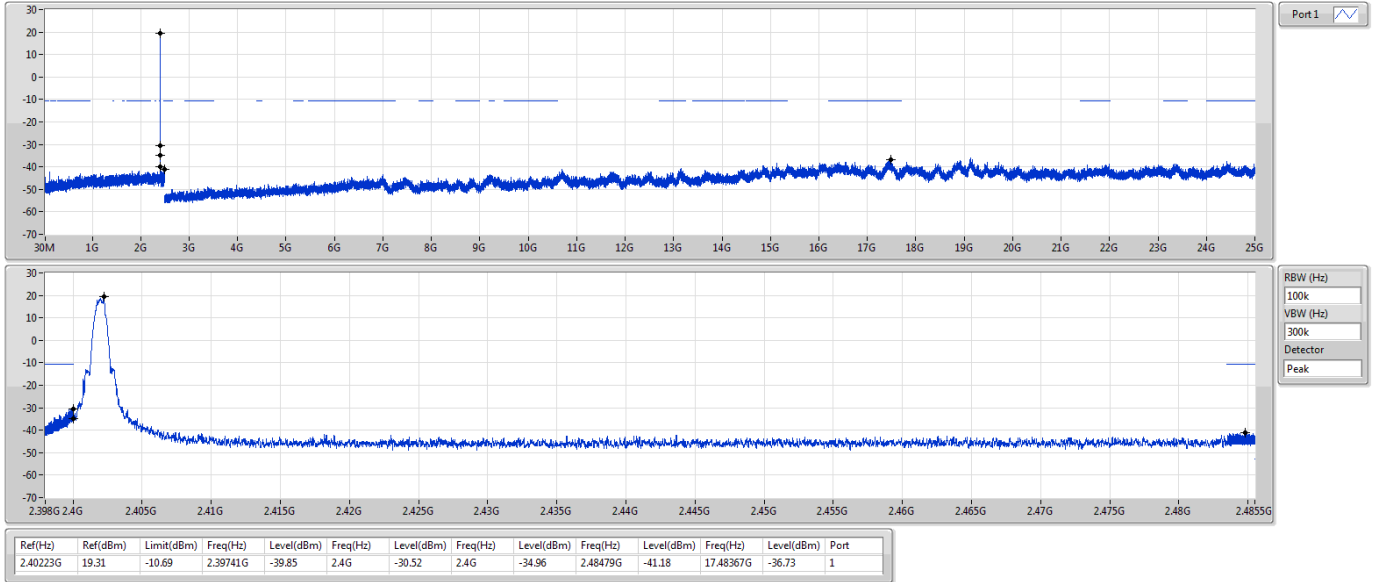
2480MHz



BT-LE(1Mbps)

CSEndB-DTS

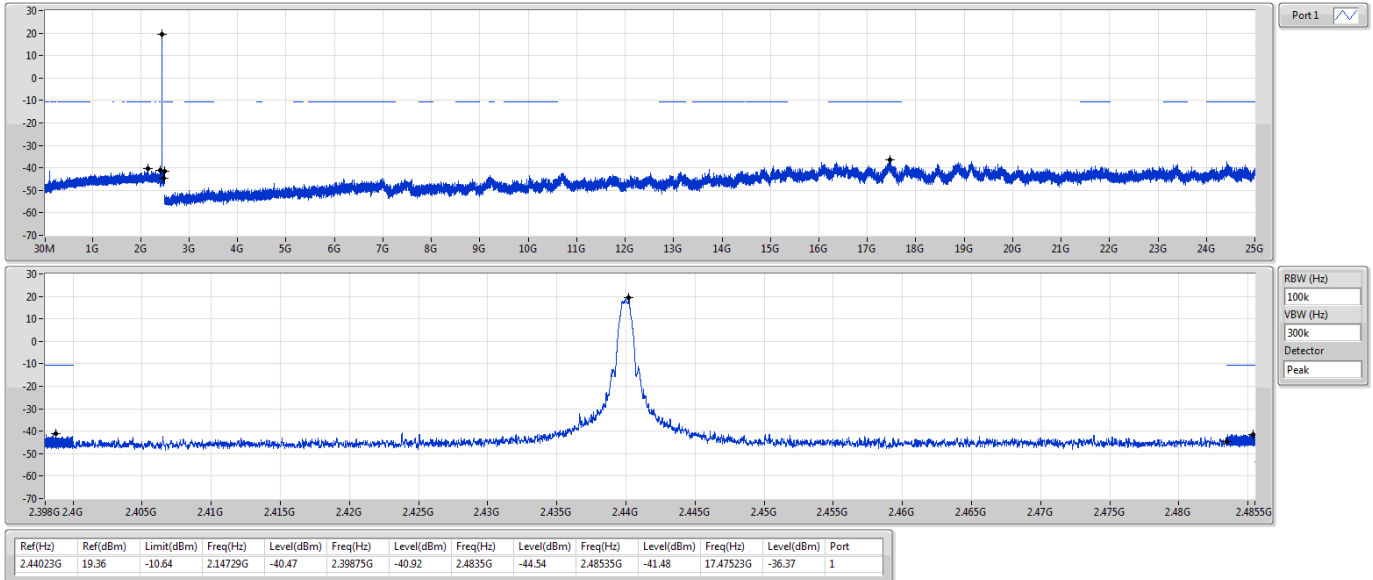
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

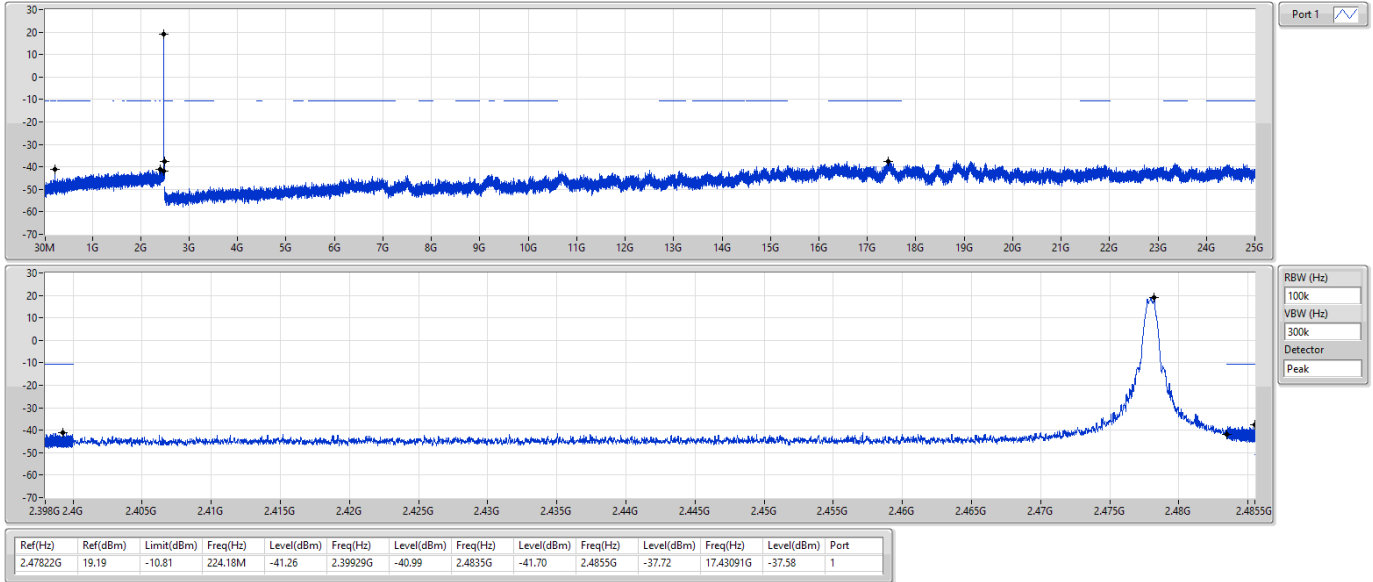
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

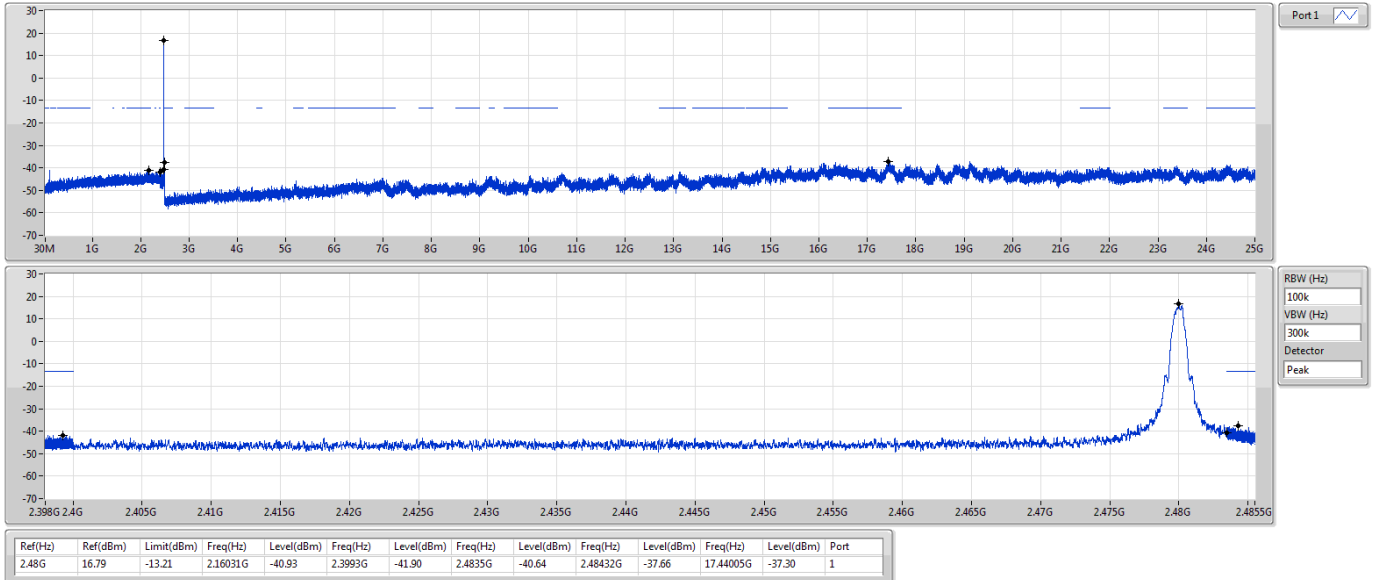
2478MHz



BT-LE(1Mbps)

CSEndB-DTS

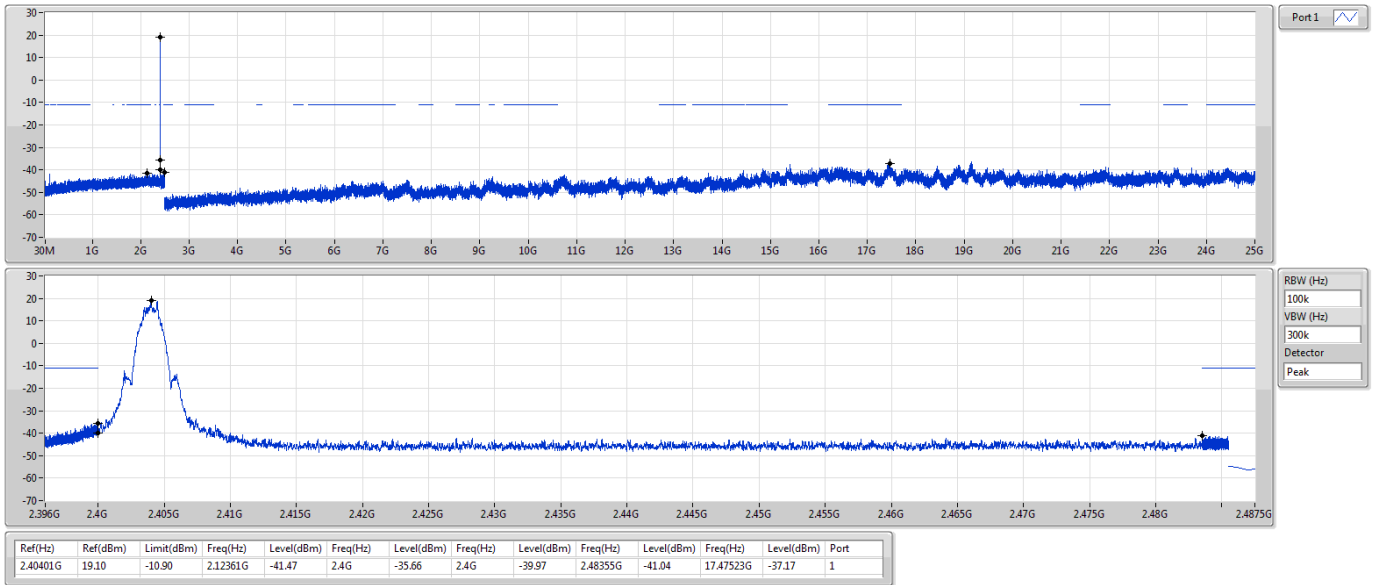
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

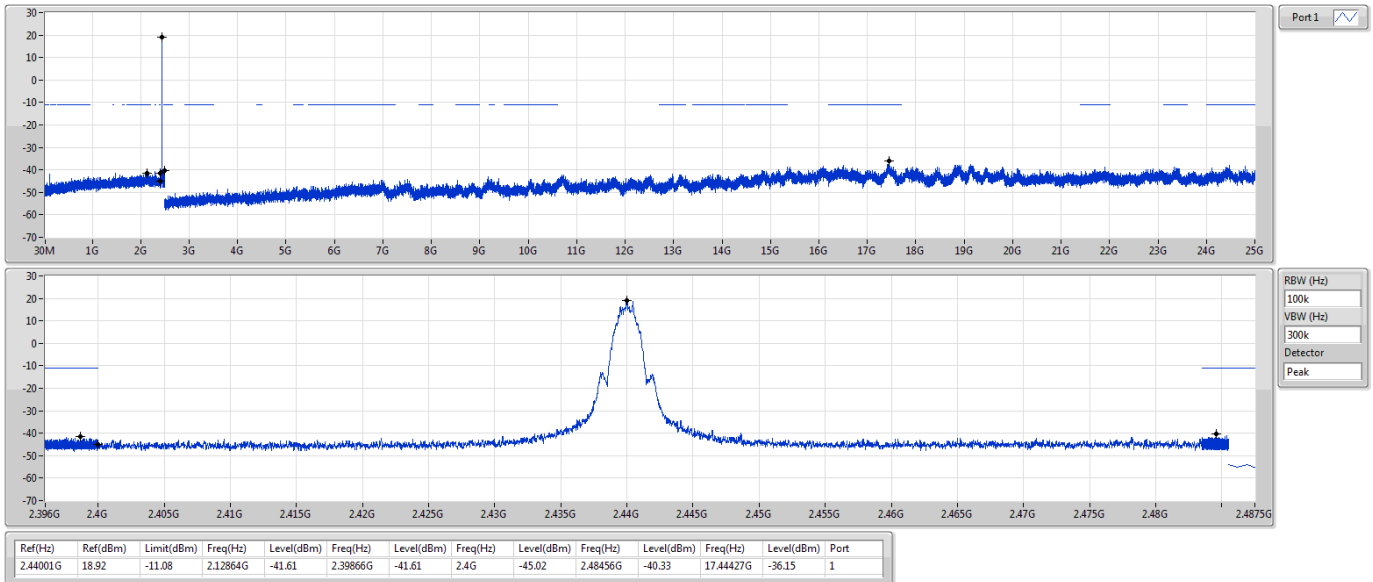
2404MHz



BT-LE(2Mbps)

CSEndB-DTS

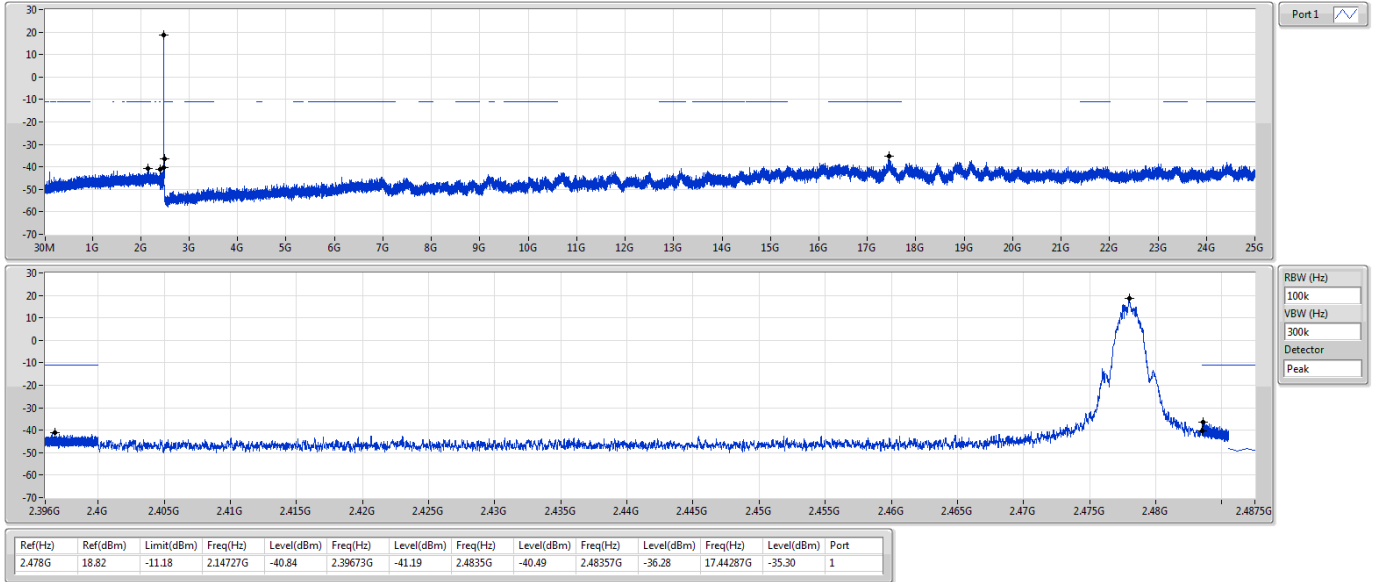
2440MHz



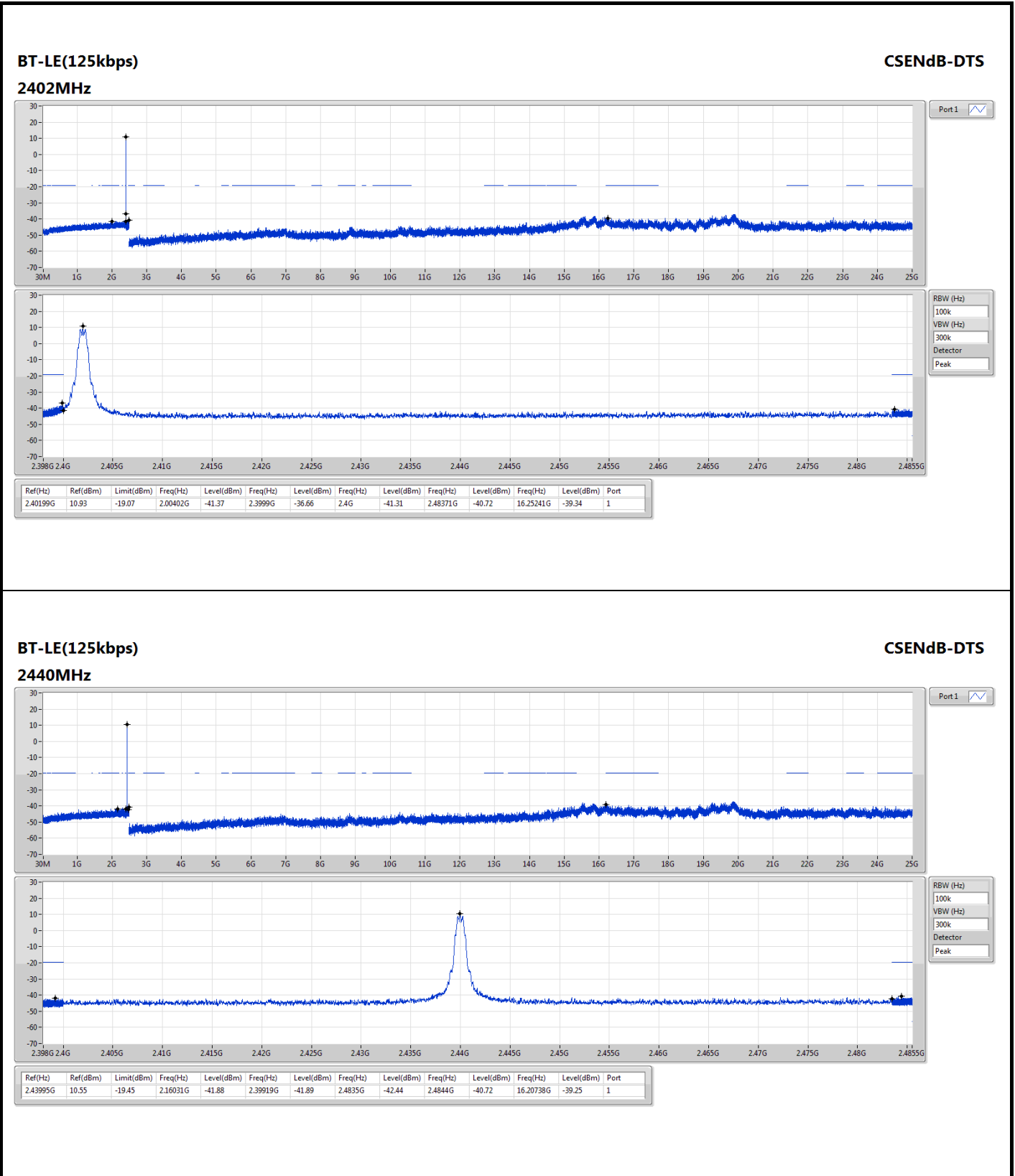
BT-LE(2Mbps)

CSEndB-DTS

2478MHz



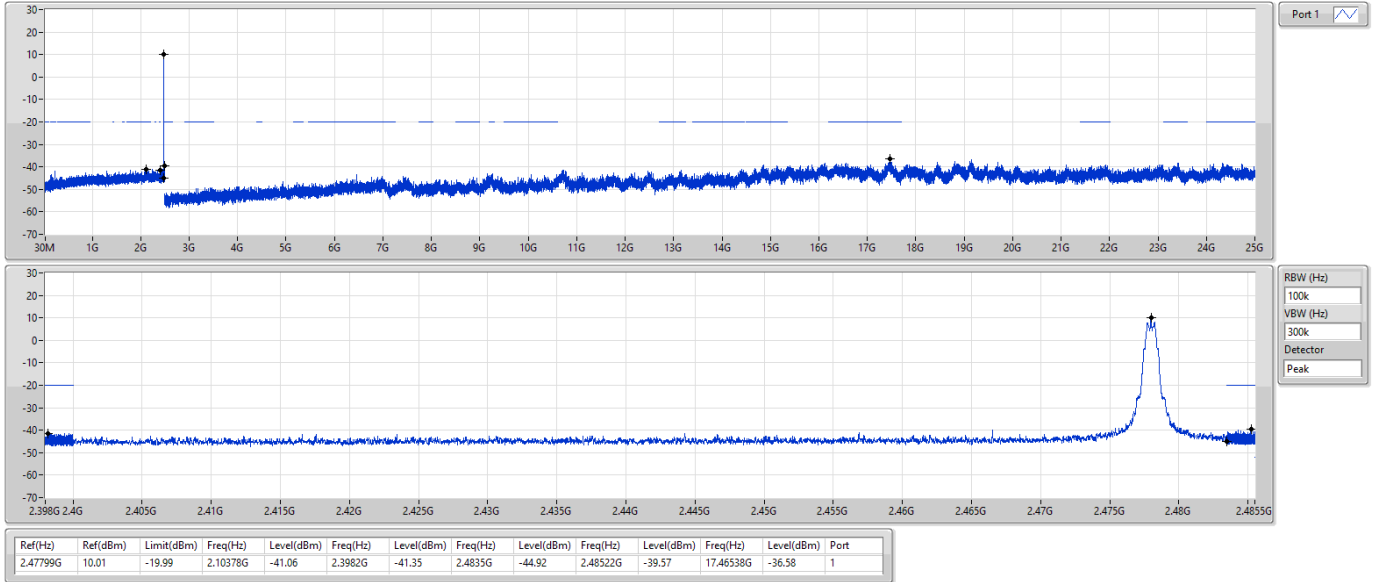
3) Configuration 3: Laird part number: 453-00148, 20dBm, RF Trace Pad (External antenna)



BT-LE(125kbps)

CSEndB-DTS

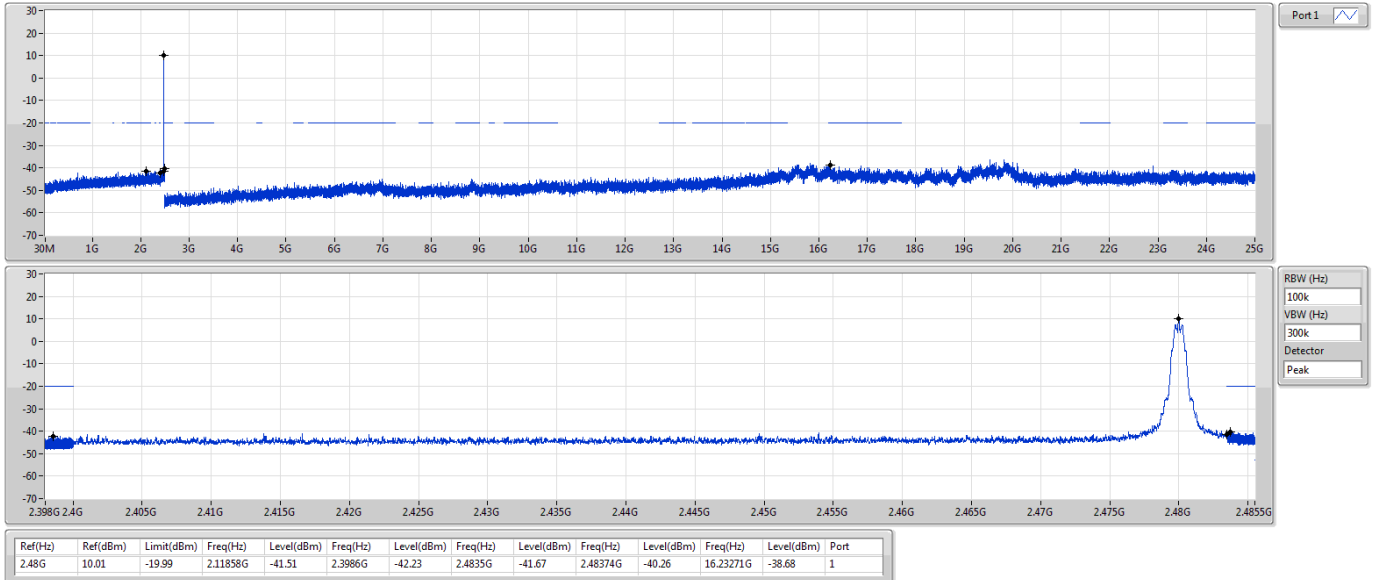
2478MHz



BT-LE(125kbps)

CSEndB-DTS

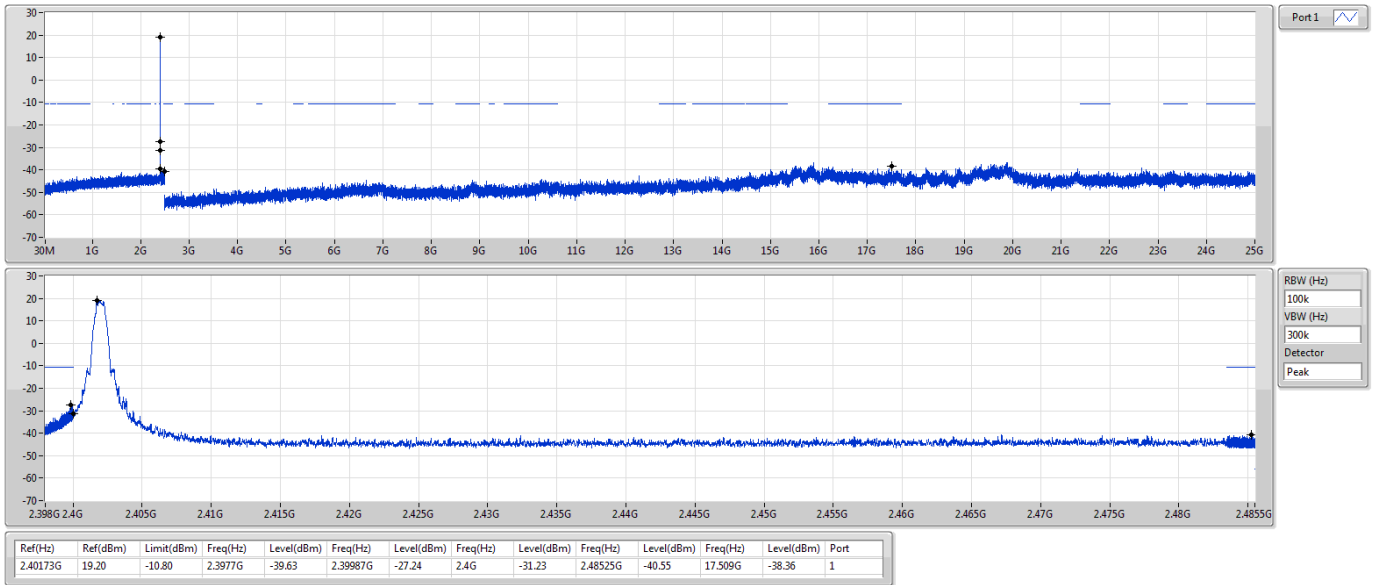
2480MHz



BT-LE(500kbps)

CSEndB-DTS

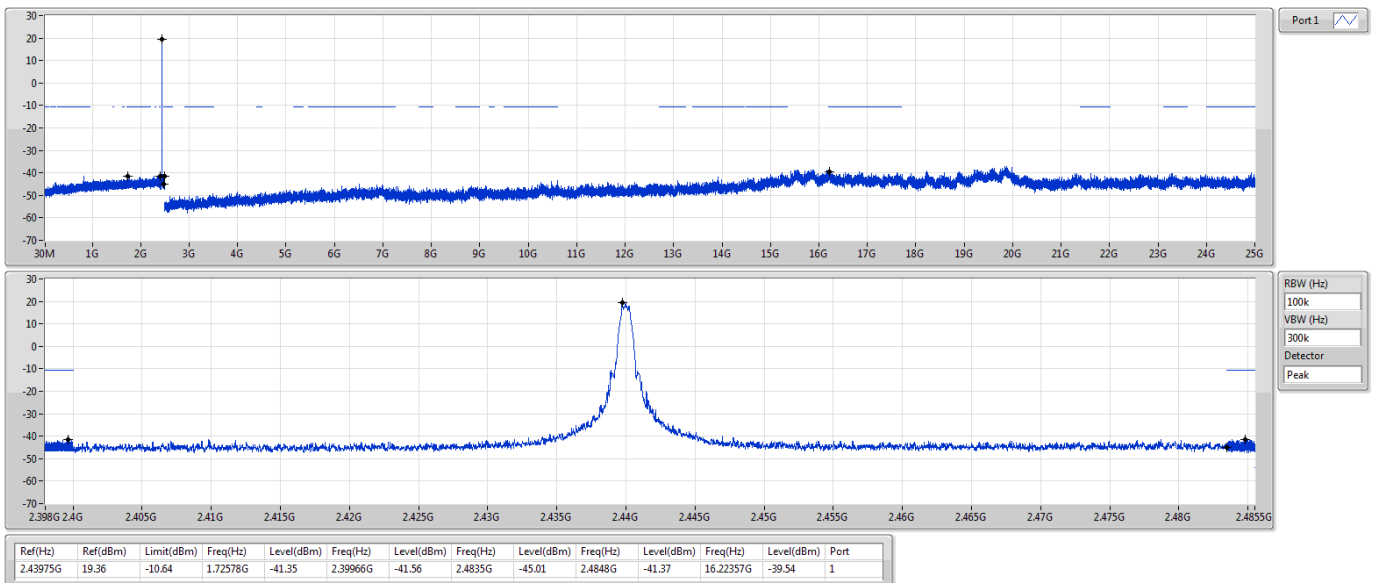
2402MHz



BT-LE(500kbps)

CSEndB-DTS

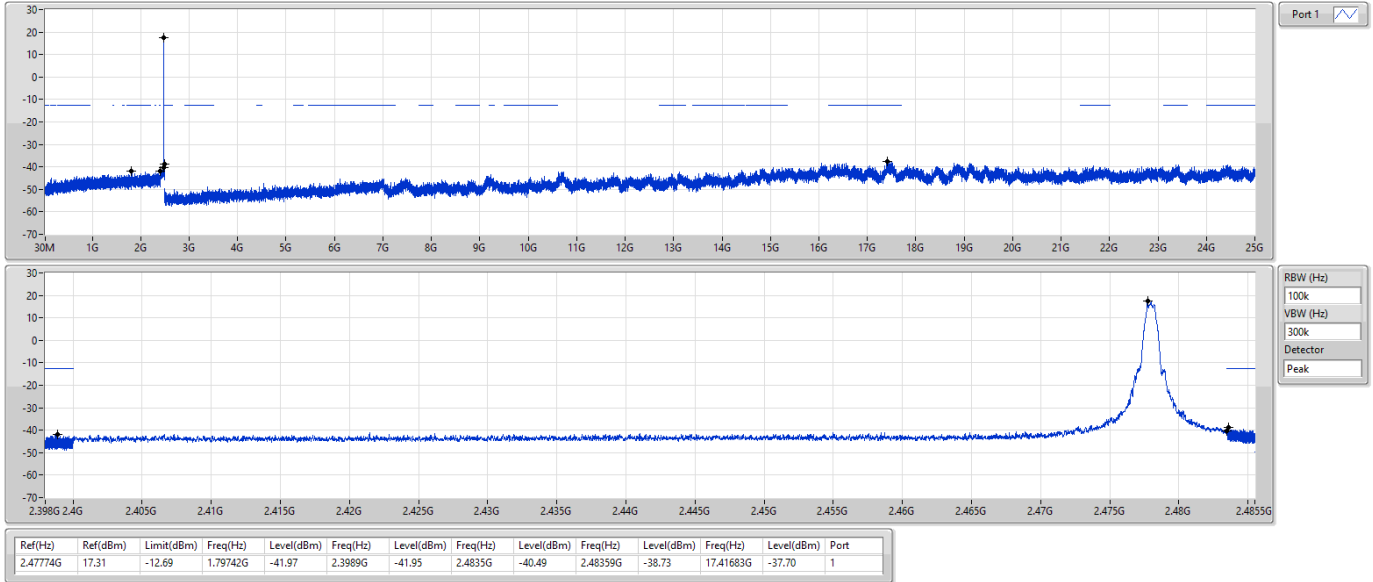
2440MHz



BT-LE(500kbps)

CSEndB-DTS

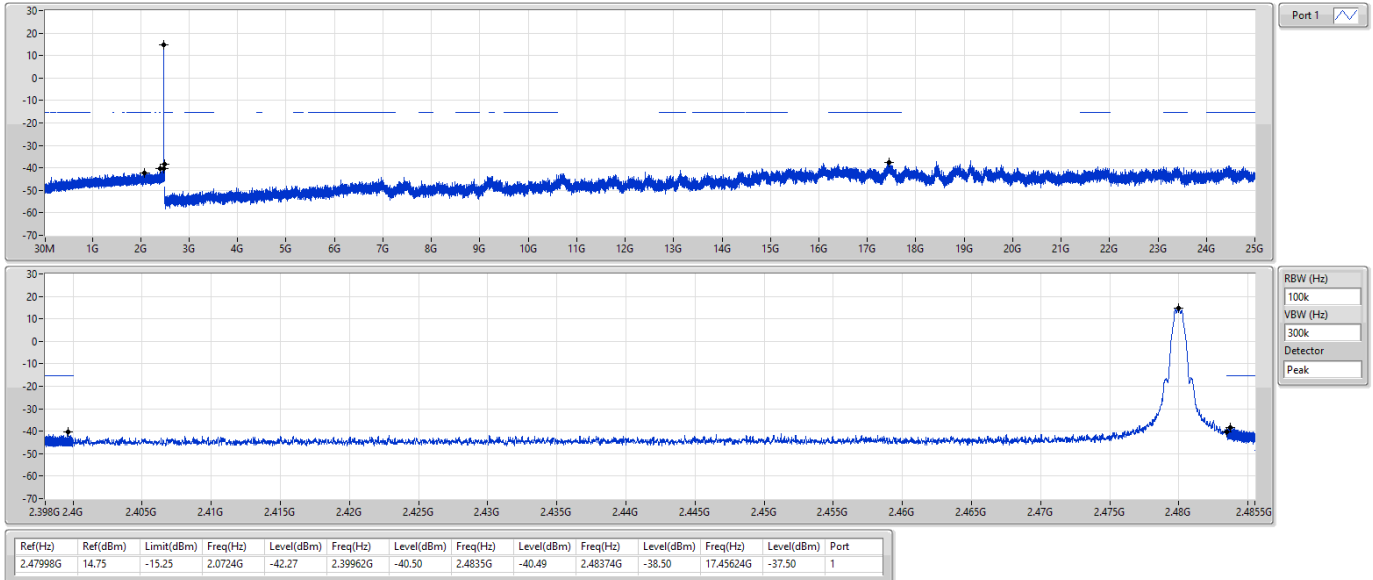
2478MHz



BT-LE(500kbps)

CSEndB-DTS

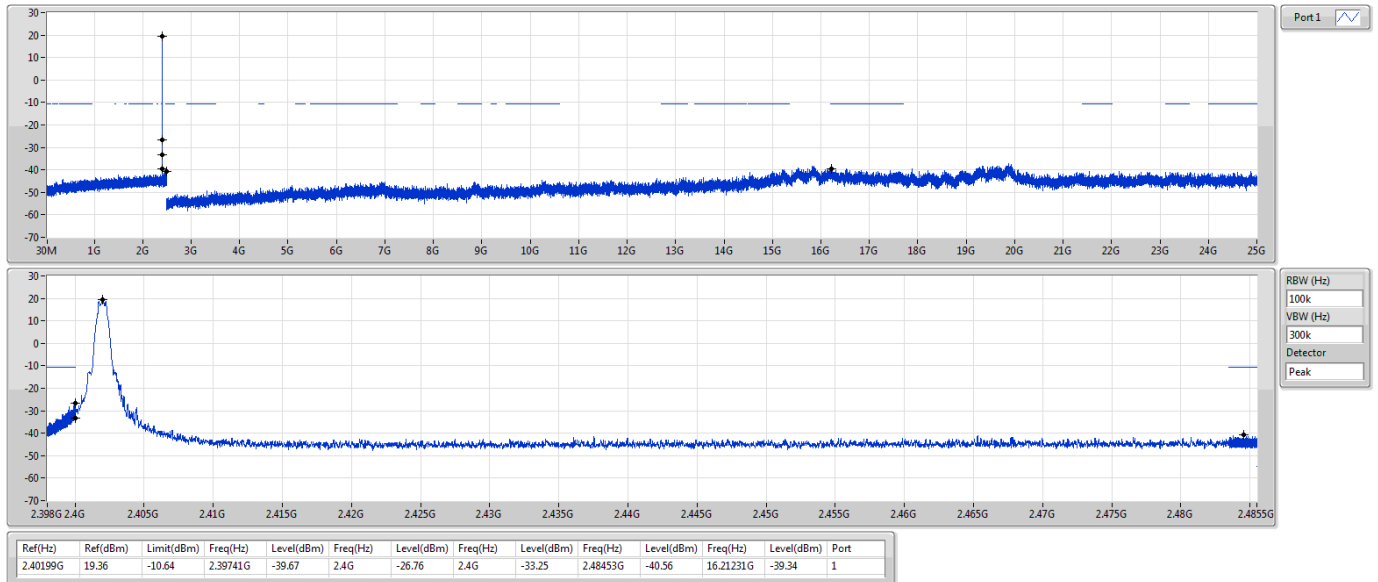
2480MHz



BT-LE(1Mbps)

CSEndB-DTS

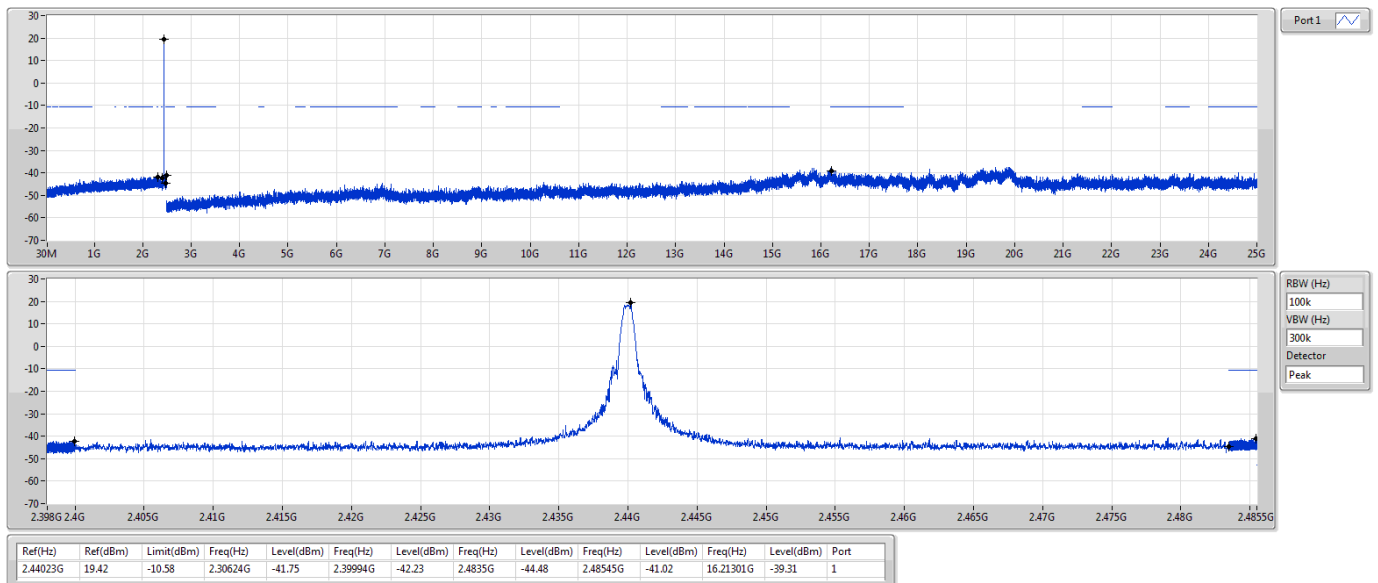
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

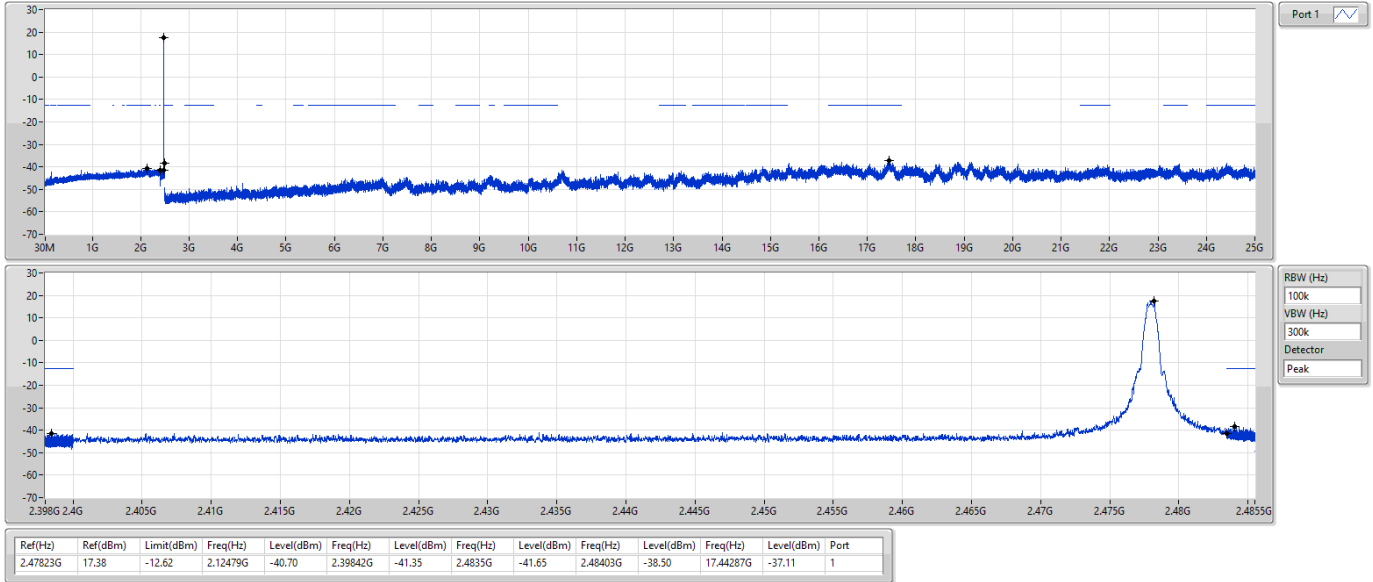
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

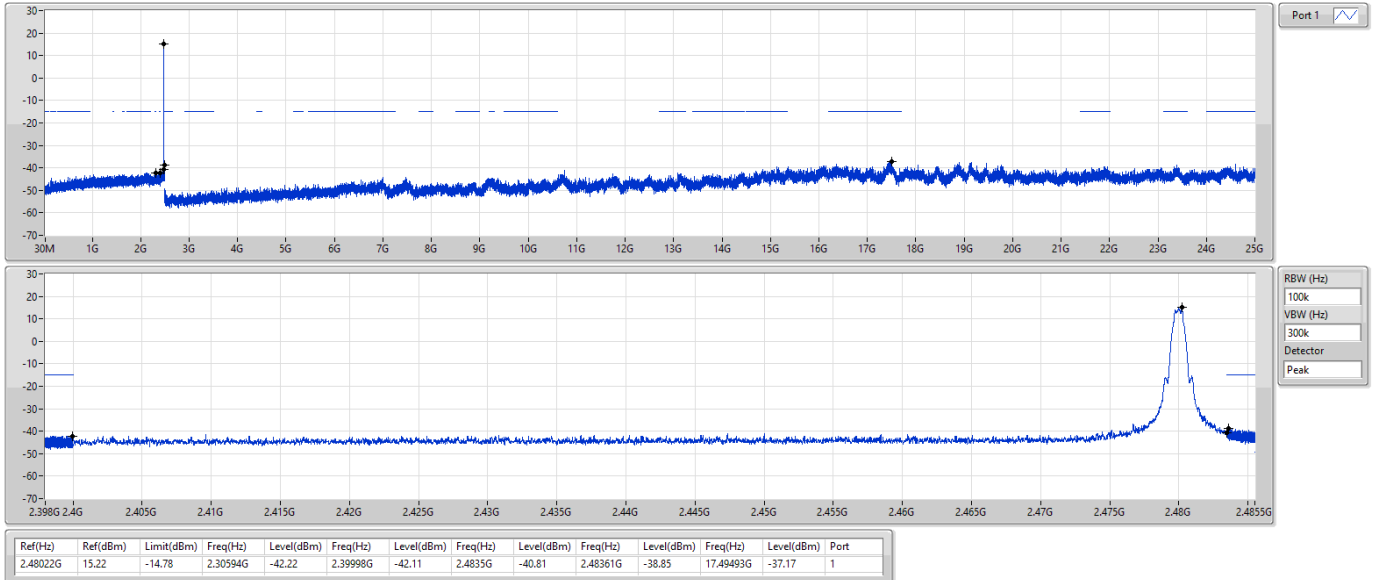
2478MHz



BT-LE(1Mbps)

CSEndB-DTS

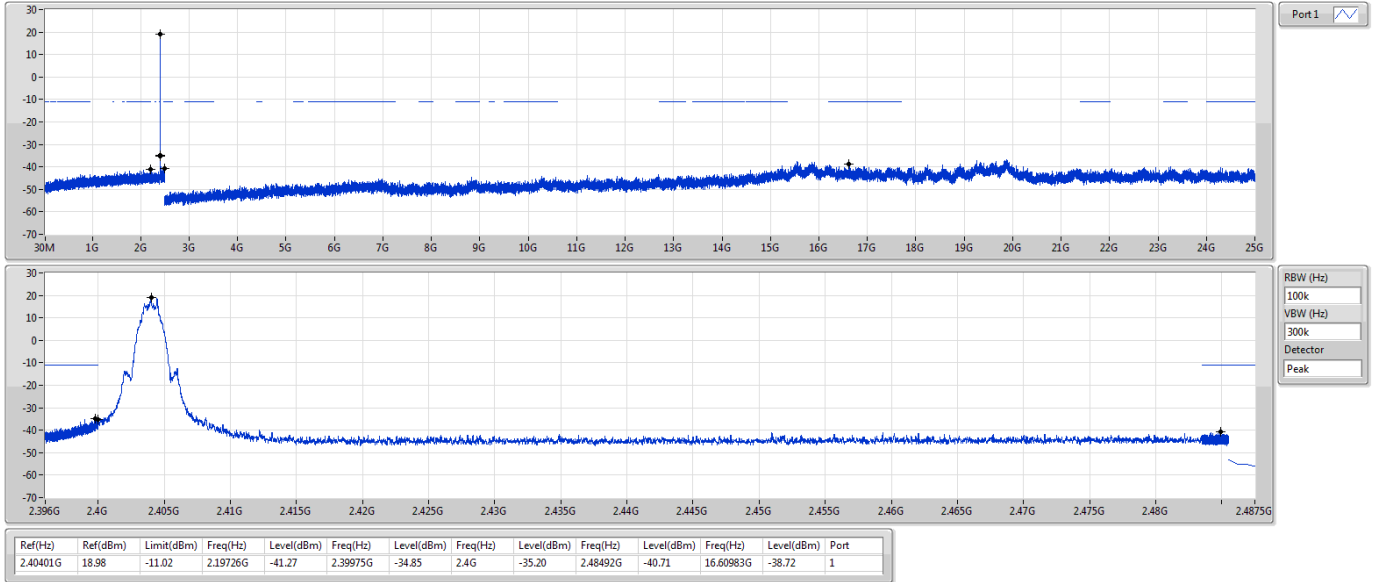
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

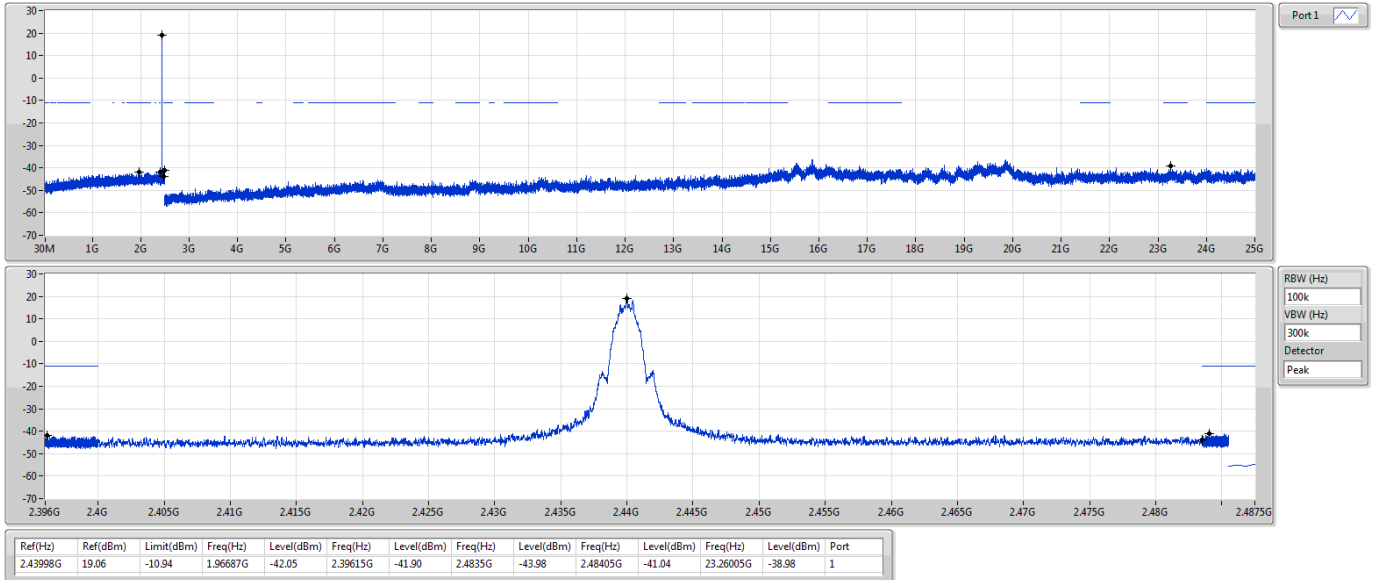
2404MHz



BT-LE(2Mbps)

CSEndB-DTS

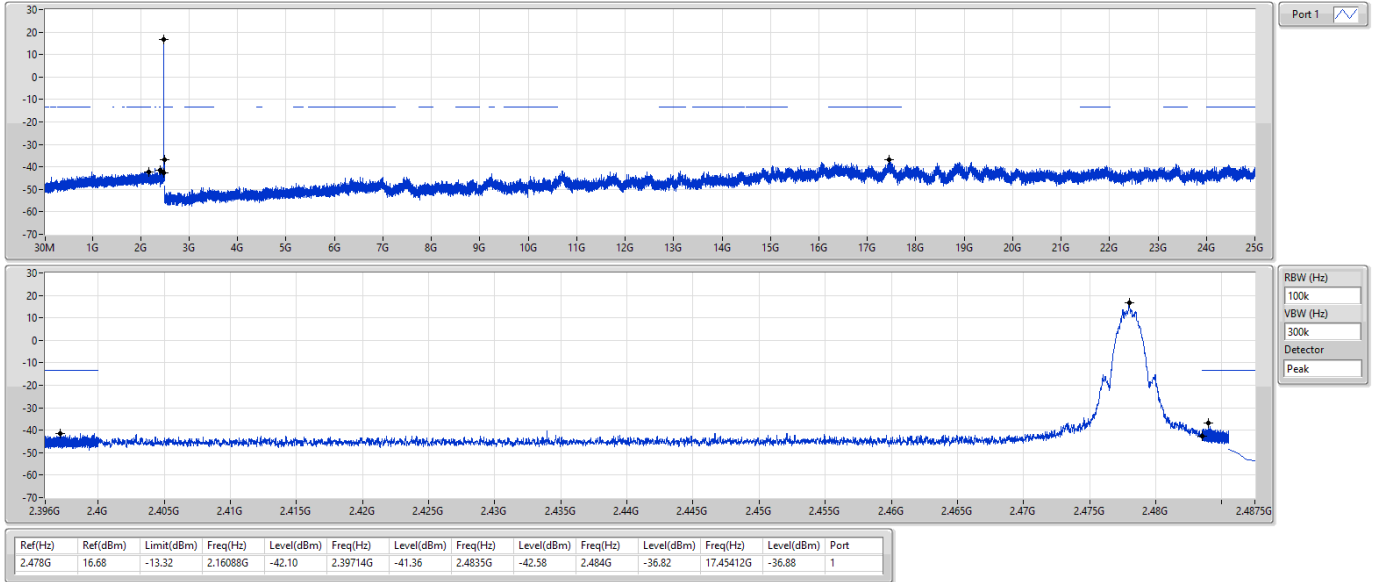
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

2478MHz



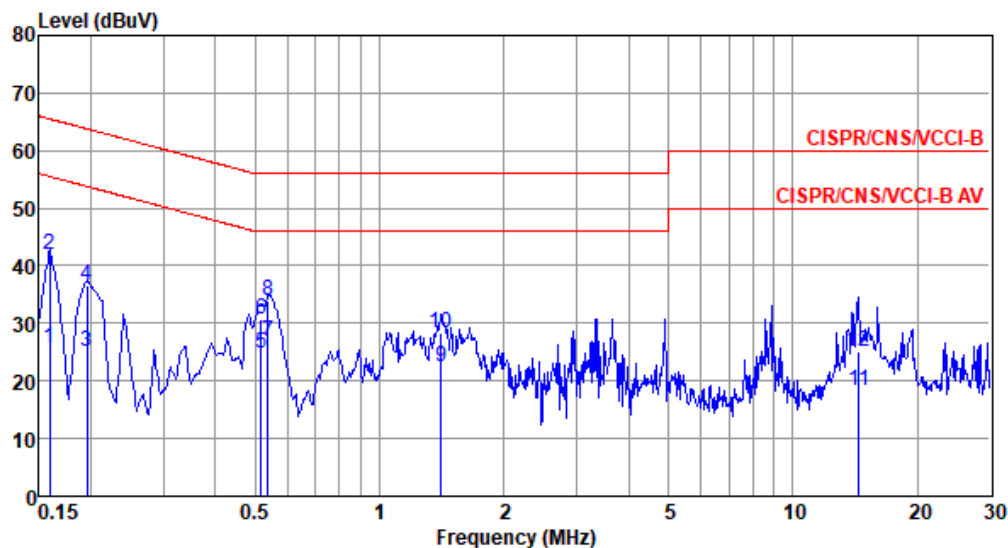
**1) Configuration 1: Laird part number: 453-00142, 10dBm, Integrated Antenna**

Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Line		

Test by : Joe Liao

Temperature: 21°C

Humidity: 60%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	Remark
			dBuV	dB	dBuV		dB		
1	0.159	25.65	55.52	-29.87	16.00	9.59	0.06	0.00	Average
2	0.159	41.81	65.52	-23.71	32.16	9.59	0.06	0.00	QP
3	0.195	25.23	53.80	-28.57	15.58	9.59	0.06	0.00	Average
4	0.195	36.69	63.80	-27.11	27.04	9.59	0.06	0.00	QP
5	0.516	24.66	46.00	-21.34	15.00	9.59	0.07	0.00	Average
6	0.516	30.83	56.00	-25.17	21.17	9.59	0.07	0.00	QP
7*	0.538	26.77	46.00	-19.23	17.10	9.59	0.08	0.00	Average
8	0.538	33.87	56.00	-22.13	24.20	9.59	0.08	0.00	QP
9	1.411	22.52	46.00	-23.48	12.80	9.60	0.12	0.00	Average
10	1.411	28.23	56.00	-27.77	18.51	9.60	0.12	0.00	QP
11	14.440	18.33	50.00	-31.67	8.28	9.62	0.43	0.00	Average
12	14.440	25.11	60.00	-34.89	15.06	9.62	0.43	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).

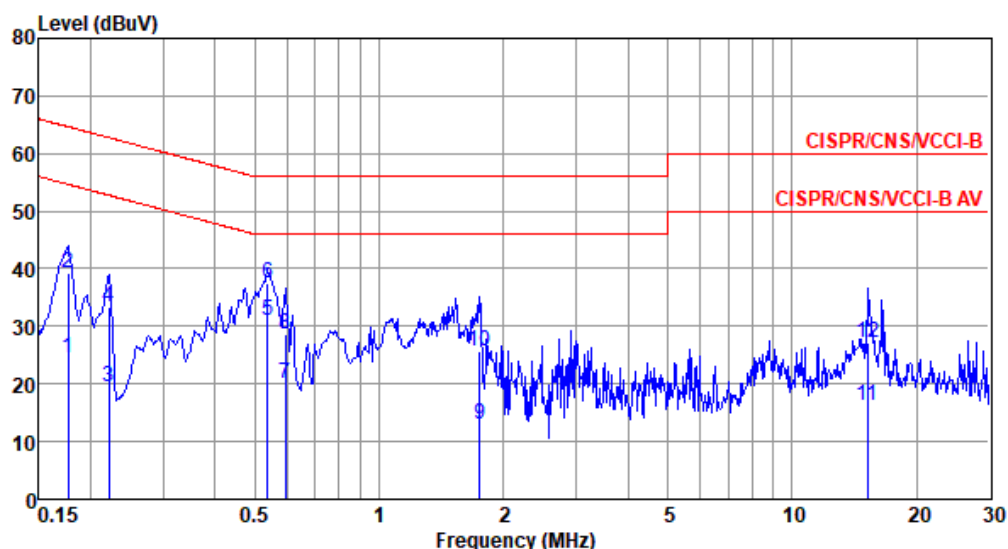


Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 21°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.177	24.64	54.64	-30.00	14.98	9.60	0.06	0.00	Average
2	0.177	39.32	64.64	-25.32	29.66	9.60	0.06	0.00	QP
3	0.222	19.60	52.74	-33.14	9.94	9.60	0.06	0.00	Average
4	0.222	33.25	62.74	-29.49	23.59	9.60	0.06	0.00	QP
5*	0.538	30.90	46.00	-15.10	21.22	9.60	0.08	0.00	Average
6	0.538	37.52	56.00	-18.48	27.84	9.60	0.08	0.00	QP
7	0.592	20.10	46.00	-25.90	10.42	9.60	0.08	0.00	Average
8	0.592	28.57	56.00	-27.43	18.89	9.60	0.08	0.00	QP
9	1.753	12.93	46.00	-33.07	3.19	9.61	0.13	0.00	Average
10	1.753	25.73	56.00	-30.27	15.99	9.61	0.13	0.00	QP
11	15.226	16.18	50.00	-33.82	6.07	9.67	0.44	0.00	Average
12	15.226	27.05	60.00	-32.95	16.94	9.67	0.44	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

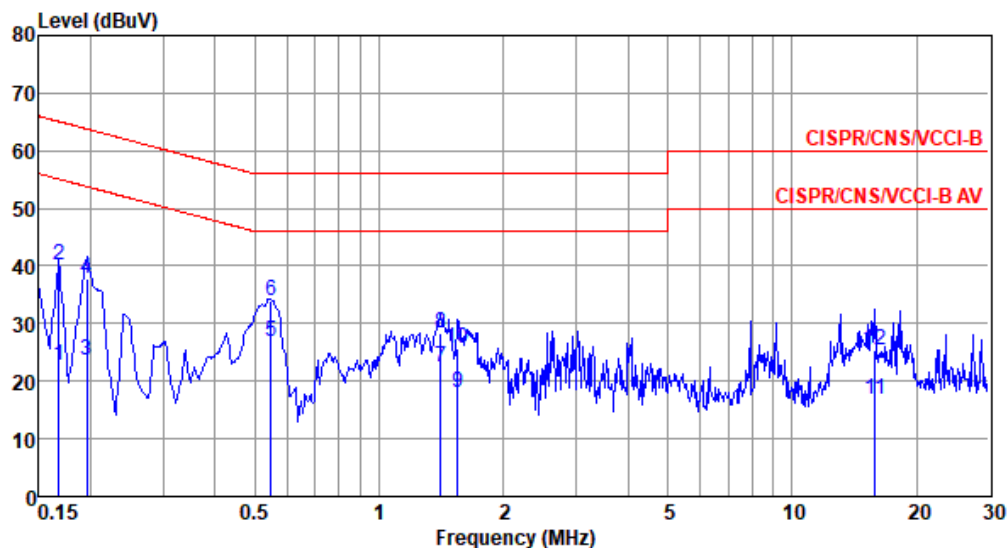
**2) Configuration 2: Laird part number: 453-00145, 20dBm, Integrated Antenna**

Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Line		

Test by : Joe Liao

Temperature: 21°C

Humidity: 60%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	Remark
			dBuV	dB	dBuV		dB		
1	0.168	22.76	55.08	-32.32	13.11	9.59	0.06	0.00	Average
2	0.168	40.22	65.08	-24.86	30.57	9.59	0.06	0.00	QP
3	0.195	23.72	53.80	-30.08	14.07	9.59	0.06	0.00	Average
4	0.195	37.93	63.80	-25.87	28.28	9.59	0.06	0.00	QP
5*	0.546	26.78	46.00	-19.22	17.11	9.59	0.08	0.00	Average
6	0.546	33.95	56.00	-22.05	24.28	9.59	0.08	0.00	QP
7	1.411	22.44	46.00	-23.56	12.72	9.60	0.12	0.00	Average
8	1.411	28.23	56.00	-27.77	18.51	9.60	0.12	0.00	QP
9	1.552	18.12	46.00	-27.88	8.39	9.61	0.12	0.00	Average
10	1.552	25.57	56.00	-30.43	15.84	9.61	0.12	0.00	QP
11	15.885	16.94	50.00	-33.06	6.88	9.61	0.45	0.00	Average
12	15.885	25.31	60.00	-34.69	15.25	9.61	0.45	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).

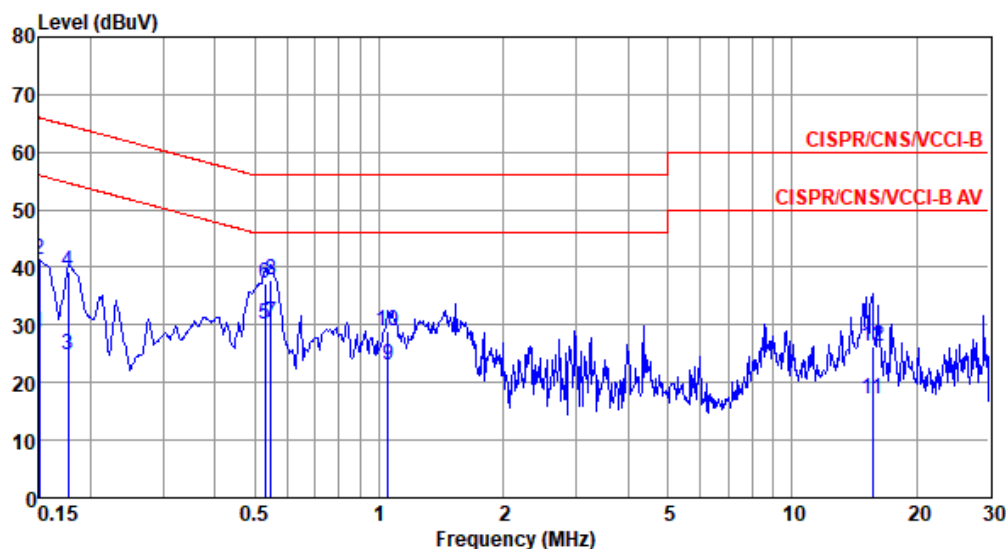


Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 21°C

Humidity: 60%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	28.55	56.00	-27.45	18.89	9.60	0.06	0.00	Average
2	0.150	41.27	66.00	-24.73	31.61	9.60	0.06	0.00	QP
3	0.177	24.92	54.64	-29.72	15.26	9.60	0.06	0.00	Average
4	0.177	39.39	64.64	-25.25	29.73	9.60	0.06	0.00	QP
5	0.529	30.18	46.00	-15.82	20.50	9.60	0.08	0.00	Average
6	0.529	37.22	56.00	-18.78	27.54	9.60	0.08	0.00	QP
7*	0.546	30.29	46.00	-15.71	20.61	9.60	0.08	0.00	Average
8	0.546	37.80	56.00	-18.20	28.12	9.60	0.08	0.00	QP
9	1.049	23.03	46.00	-22.97	13.32	9.60	0.11	0.00	Average
10	1.049	28.84	56.00	-27.16	19.13	9.60	0.11	0.00	QP
11	15.635	17.10	50.00	-32.90	6.98	9.67	0.45	0.00	Average
12	15.635	26.22	60.00	-33.78	16.10	9.67	0.45	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

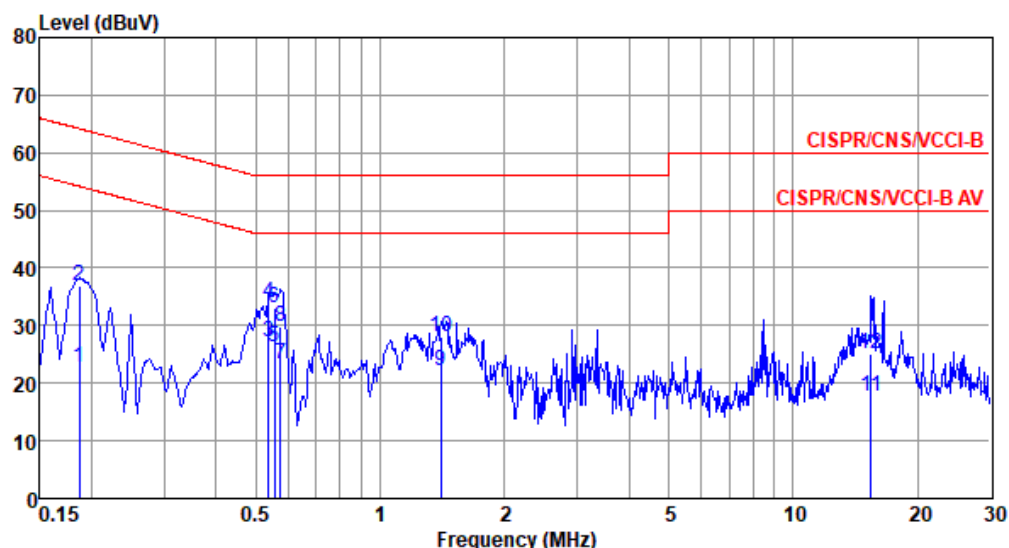
**3) Configuration 3: Laird part number: 453-00148, 20dBm, RF Trace Pad (External antenna)**

Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Line		

Test by : Joe Liao

Temperature: 21°C

Humidity: 60%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.186	22.62	54.20	-31.58	12.97	9.59	0.06	0.00	Average
2	0.186	36.93	64.20	-27.27	27.28	9.59	0.06	0.00	QP
3*	0.538	27.03	46.00	-18.97	17.36	9.59	0.08	0.00	Average
4	0.538	33.94	56.00	-22.06	24.27	9.59	0.08	0.00	QP
5	0.555	26.31	46.00	-19.69	16.64	9.59	0.08	0.00	Average
6	0.555	33.18	56.00	-22.82	23.51	9.59	0.08	0.00	QP
7	0.573	23.19	46.00	-22.81	13.52	9.59	0.08	0.00	Average
8	0.573	29.77	56.00	-26.23	20.10	9.59	0.08	0.00	QP
9	1.403	22.10	46.00	-23.90	12.38	9.60	0.12	0.00	Average
10	1.403	28.08	56.00	-27.92	18.36	9.60	0.12	0.00	QP
11	15.470	17.73	50.00	-32.27	7.67	9.61	0.45	0.00	Average
12	15.470	25.16	60.00	-34.84	15.10	9.61	0.45	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).

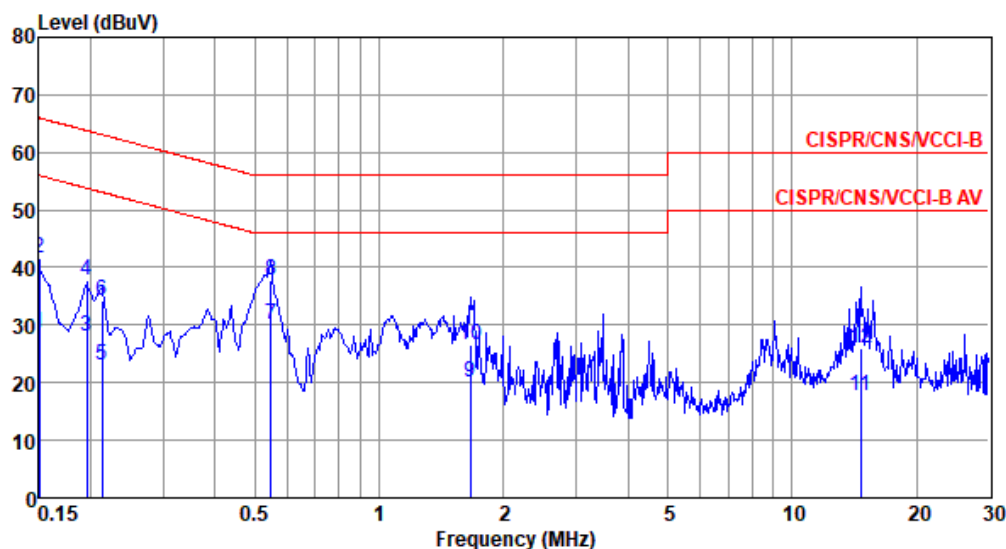


Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 21°C

Humidity: 60%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	28.60	56.00	-27.40	18.94	9.60	0.06	0.00	Average
2	0.150	41.59	66.00	-24.41	31.93	9.60	0.06	0.00	QP
3	0.195	27.91	53.80	-25.89	18.25	9.60	0.06	0.00	Average
4	0.195	37.80	63.80	-26.00	28.14	9.60	0.06	0.00	QP
5	0.213	23.15	53.10	-29.95	13.49	9.60	0.06	0.00	Average
6	0.213	34.18	63.10	-28.92	24.52	9.60	0.06	0.00	QP
7*	0.546	30.23	46.00	-15.77	20.55	9.60	0.08	0.00	Average
8	0.546	37.68	56.00	-18.32	28.00	9.60	0.08	0.00	QP
9	1.662	19.93	46.00	-26.07	10.20	9.61	0.12	0.00	Average
10	1.662	26.59	56.00	-29.41	16.86	9.61	0.12	0.00	QP
11	14.672	17.58	50.00	-32.42	7.47	9.67	0.44	0.00	Average
12	14.672	26.02	60.00	-33.98	15.91	9.67	0.44	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).