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A.5 TIME OF OCCUPANCY

Test Date	2024/07/26	Temp./Hum.	24°C/54%
Cable Loss	1.50 dB	Tested By	Sean Wang
Test Voltage	DC 7.4V (Via Battery)		

A.5.1 Time of Occupancy

Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
FASSTest	2405.376	3	1.450	40.020	<400
	2439.168	3	1.400	38.640	<400
	2472.960	3	1.450	40.020	<400

Observation Period:
23 channels* **0.4** seconds= **9.2** seconds
Centre Frequency: 2405.376MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /1* **1.450** ms= **40.020** ms (<400ms)
Centre Frequency: 2439.168MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /1* **1.400** ms= **38.640** ms (<400ms)
Centre Frequency: 2472.960MHz
For each second of **3** transmission appearance,the longest time of occupancy is
3 channels* **9.2** /1* **1.450** ms= **40.020** ms (<400ms)

Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
S-FHSS	2403.25	5	2.780	333.600	<400
	2425.00	5	2.780	333.600	<400
	2447.50	5	2.780	333.600	<400

Observation Period:
60 channels* **0.4** seconds= **24.0** seconds
Centre Frequency: 2403.25MHz
For each second of **5** transmission appearance,the longest time of occupancy is
5 channels* **24.0** /1* **2.780** ms= **333.600** ms (<400ms)
Centre Frequency: 2425.00MHz
For each second of **5** transmission appearance,the longest time of occupancy is
5 channels* **24.0** /1* **2.780** ms= **333.600** ms (<400ms)
Centre Frequency: 2447.50MHz
For each second of **5** transmission appearance,the longest time of occupancy is
5 channels* **24.0** /1* **2.780** ms= **333.600** ms (<400ms)

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Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
T-FHSS	2407.50	2	1.450	35.9600	<400
	2437.50	2	1.450	35.9600	<400
	2467.50	2	1.450	35.9600	<400

Observation Period:
31 channels* **0.4** seconds= **12.4** seconds
Centre Frequency: 2407.50MHz
For each second of **2** transmission appearance,the longest time of occupancy is
2 channels* **12.4** /1* **1.4500** ms= **35.9600** ms (<400ms)
Centre Frequency: 2437.50MHz
For each second of **2** transmission appearance,the longest time of occupancy is
2 channels* **12.4** /1* **1.4500** ms= **35.9600** ms (<400ms)
Centre Frequency: 2467.50MHz
For each second of **2** transmission appearance,the longest time of occupancy is
2 channels* **12.4** /1* **1.4500** ms= **35.9600** ms (<400ms)

Test Mode: #2 With WTR-16 RF Board

Mode	Centre Frequency (MHz)	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
T-FHSS	2407.50	1	1.650	20.4600	<400
	2437.50	1	1.650	20.4600	<400
	2467.50	1	1.600	19.8400	<400

Observation Period:
31 channels* **0.4** seconds= **12.4** seconds
Centre Frequency: 2407.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.6500** ms= **20.4600** ms (<400ms)
Centre Frequency: 2437.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.6500** ms= **20.4600** ms (<400ms)
Centre Frequency: 2467.50MHz
For each second of **1** transmission appearance,the longest time of occupancy is
1 channels* **12.4** /1* **1.6000** ms= **19.8400** ms (<400ms)

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A.5.2 Measurement Plots

Test Mode: #1 With TC57A RF Module

FASSTest

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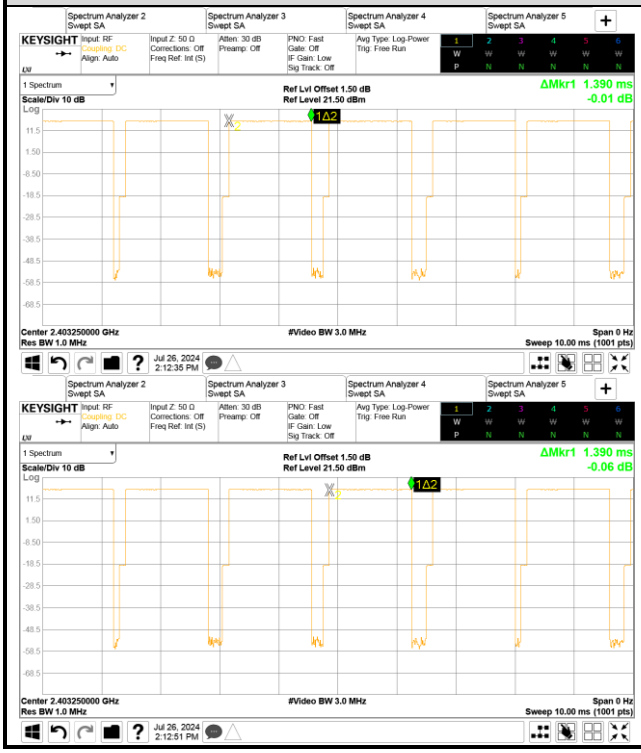
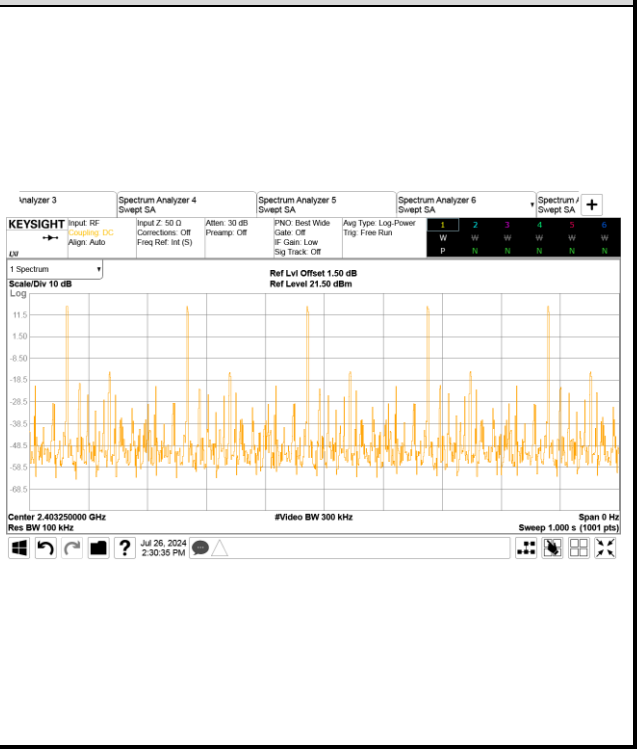
Test Mode: #1 With TC57A RF Module

S-FHSS
2403.25MHz





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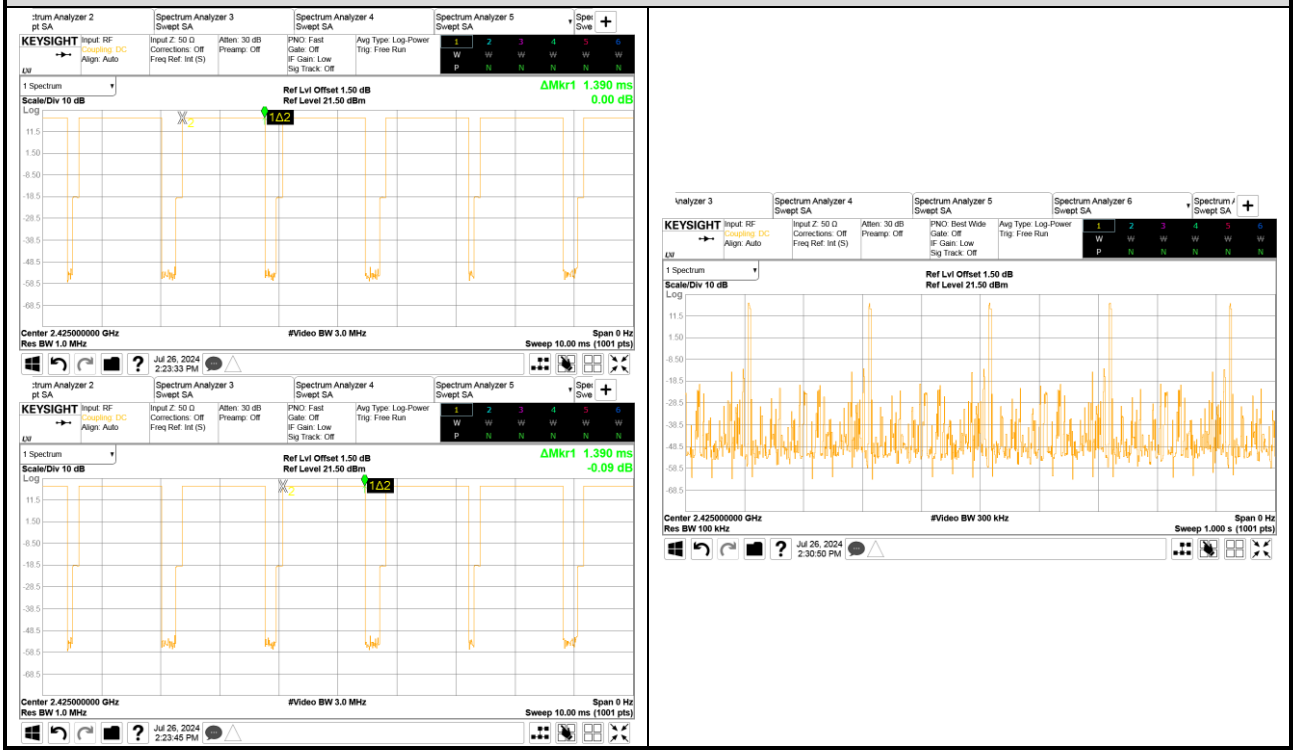
Test Mode: #1 With TC57A RF Module

S-FHSS
2425.00MHz



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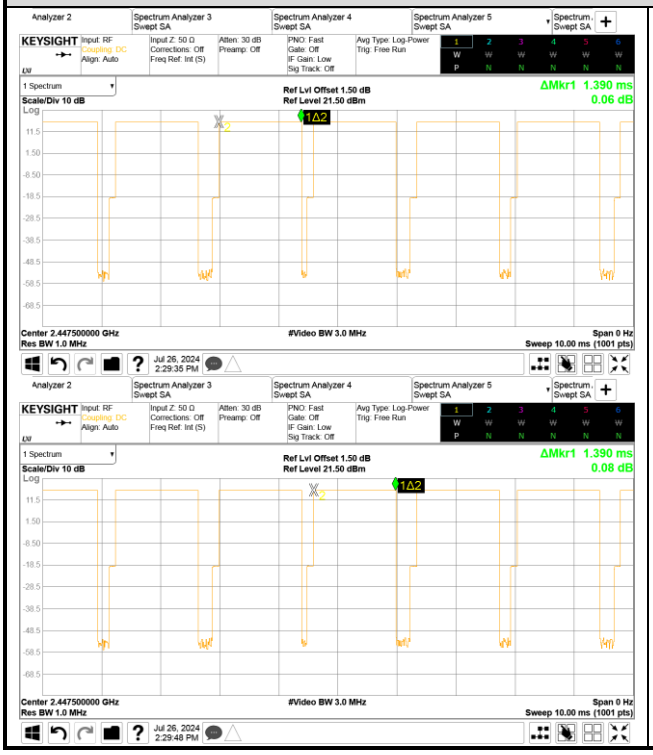
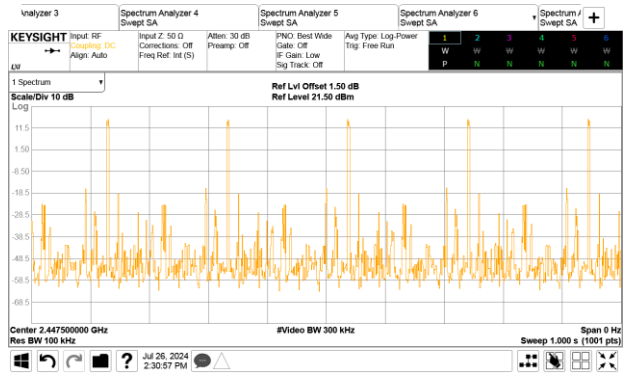
Test Mode: #1 With TC57A RF Module

S-FHSS	
2447.50MHz	
	

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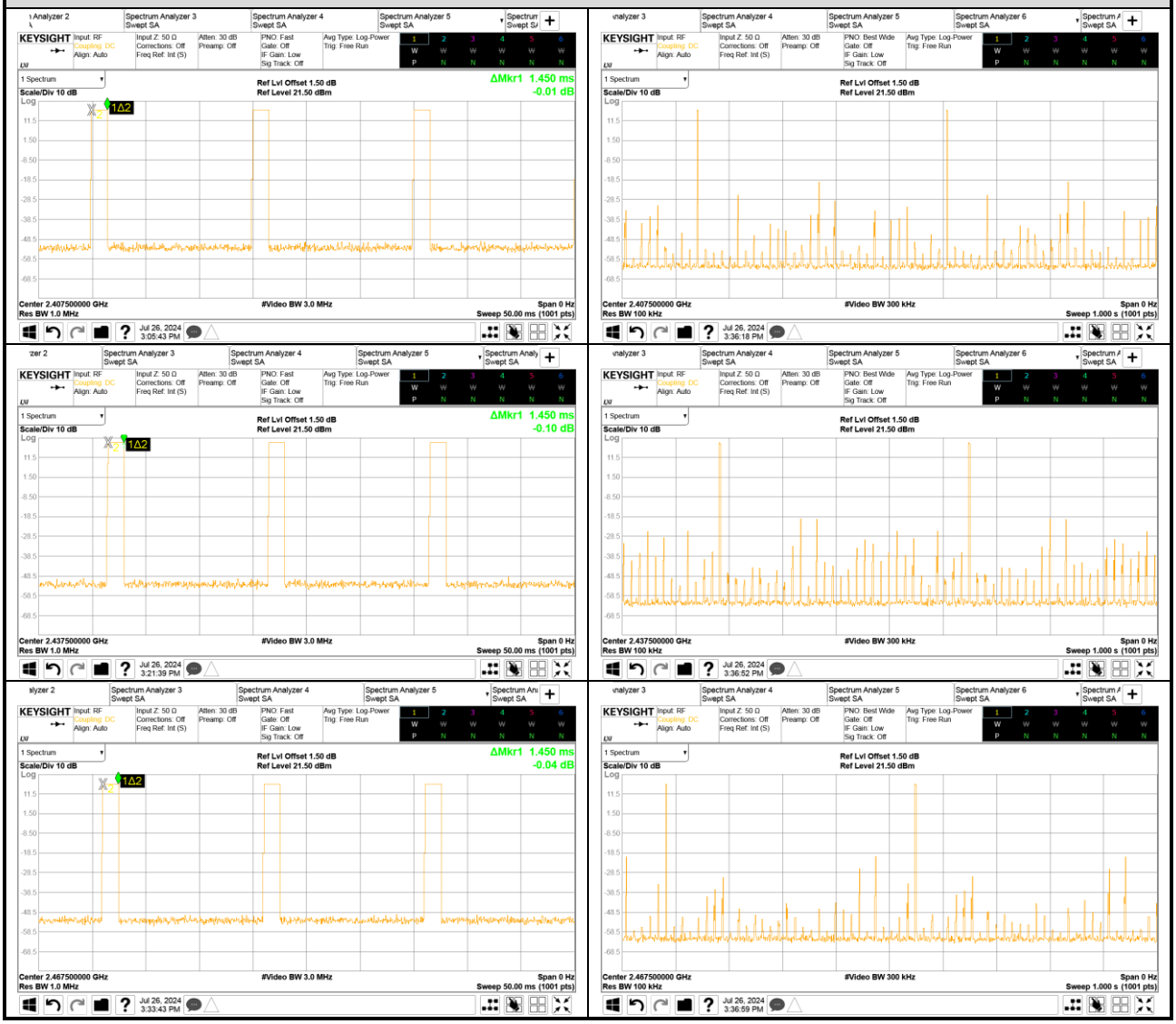
Test Mode: #1 With TC57A RF Module

T-FHSS



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Test Mode: #2 With WTR-16 RF Board

T-FHSS

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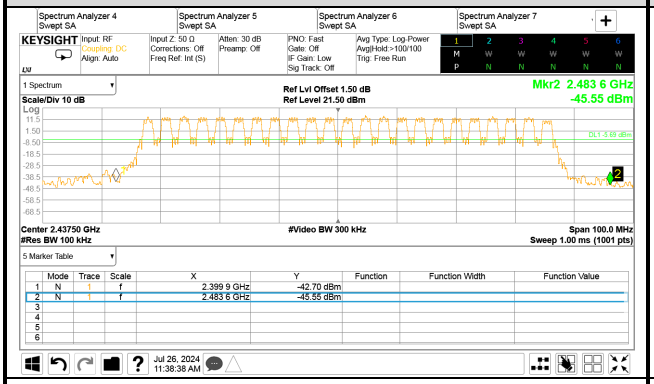
A.6 NUMBER OF HOPPING CHANNELS

Test Date	2024/07/26	Temp./Hum.	24°C/54%
Cable Loss	1.50 dB	Tested By	Sean Wang
Test Voltage	DC 7.4V (Via Battery)		

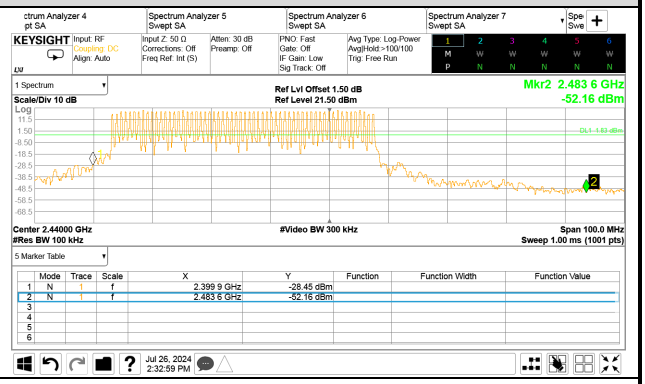
Test Mode: #1 With TC57A RF Module

FASSTest



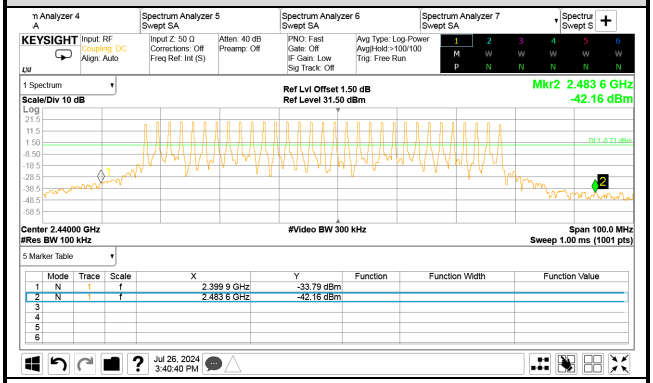
The number hopping channel is 23.

S-FHSS



The number hopping channel is 60.

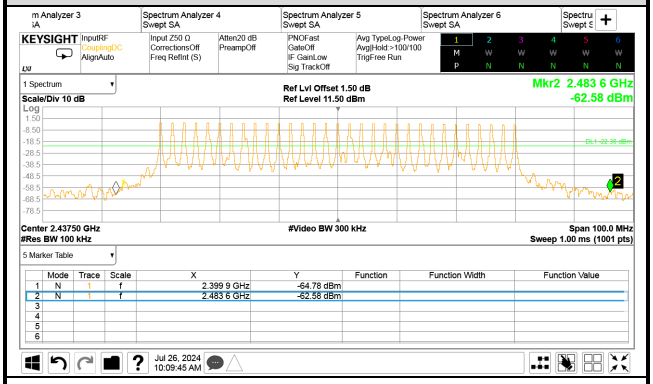
T-FHSS



The number hopping channel is 31.

Test Mode: #2 With WTR-16 RF Board

T-FHSS



The number hopping channel is 31.

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A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/07/26	Temp./Hum.	24°C/54%
Cable Loss	1.50 dB	Tested By	Sean Wang
Test Voltage	DC 7.4V (Via Battery)		

A.7.1 Maximum Peak Output Power

Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
FASSTest	2405.376	16.95	0.0495	21dBm (0.125W)
	2408.448	18.84	0.0766	
	2439.168	18.92	0.0780	
	2469.888	18.11	0.0647	
	2472.960	16.38	0.0435	

Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
S-FHSS	2403.250	15.93	0.0392	21dBm (0.125W)
	2404.000	16.24	0.0421	
	2404.750	18.11	0.0647	
	2425.000	18.01	0.0632	
	2446.000	17.94	0.0622	
	2446.750	16.08	0.0406	
	2447.500	15.97	0.0395	

Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
T-FHSS	2407.500	17.03	0.0505	21dBm (0.125W)
	2409.500	17.96	0.0625	
	2437.500	17.82	0.0605	
	2467.500	16.69	0.0467	

Test Mode: #2 With WTR-16 RF Board

Mode	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
T-FHSS	2407.500	-2.23	0.0006	21dBm (0.125W)
	2437.500	-2.79	0.0005	
	2467.500	-3.99	0.0004	

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A.7.2 Measurement Plots

Test Mode: #1 With TC57A RF Module

FASSTest

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Test Mode: #1 With TC57A RF Module

S-FHSS

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Test Mode: #1 With TC57A RF Module

T-FHSS

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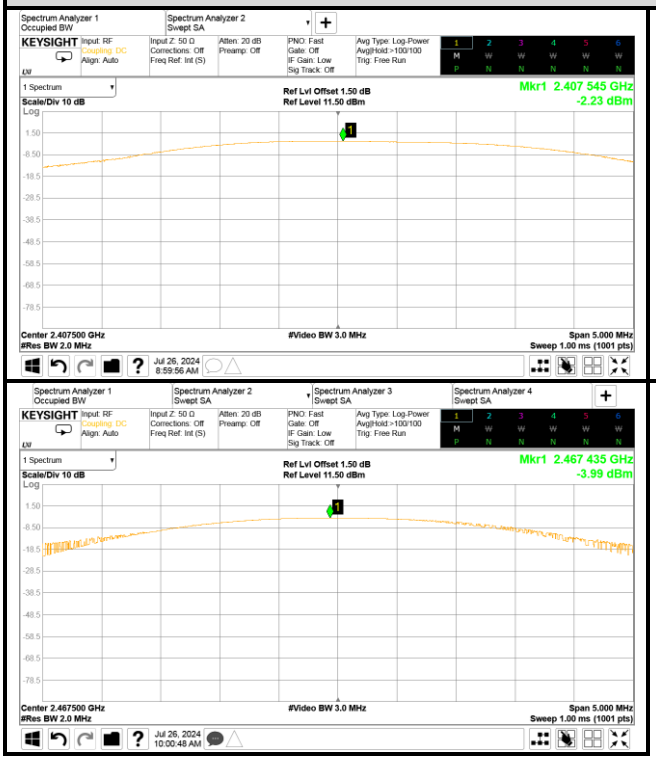
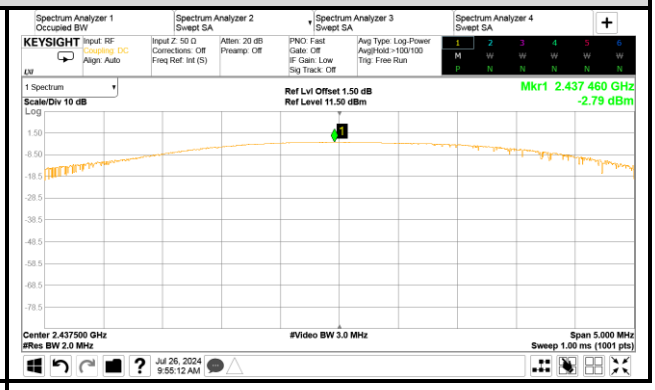
Test Mode: #2 With WTR-16 RF Board

T-FHSS





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A.8 EMISSION LIMITATIONS MEASUREMENT

A.8.1 Band Edge

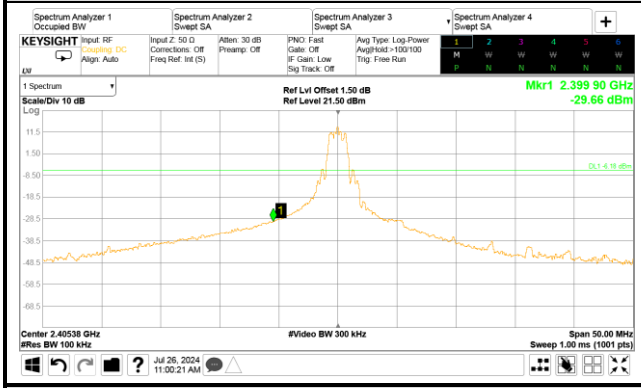
Test Date	2024/07/26	Temp./Hum.	24°C/54%
Cable Loss	1.50 dB	Tested By	Sean Wang
Test Voltage	DC 7.4V (Via Battery)		

Test Mode: #1 With TC57A RF Module

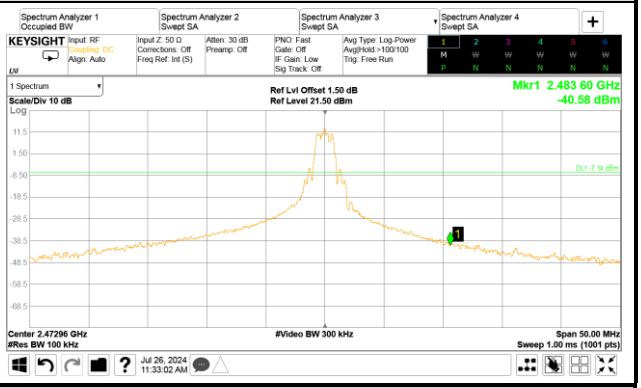
FASSTest

Single Channel

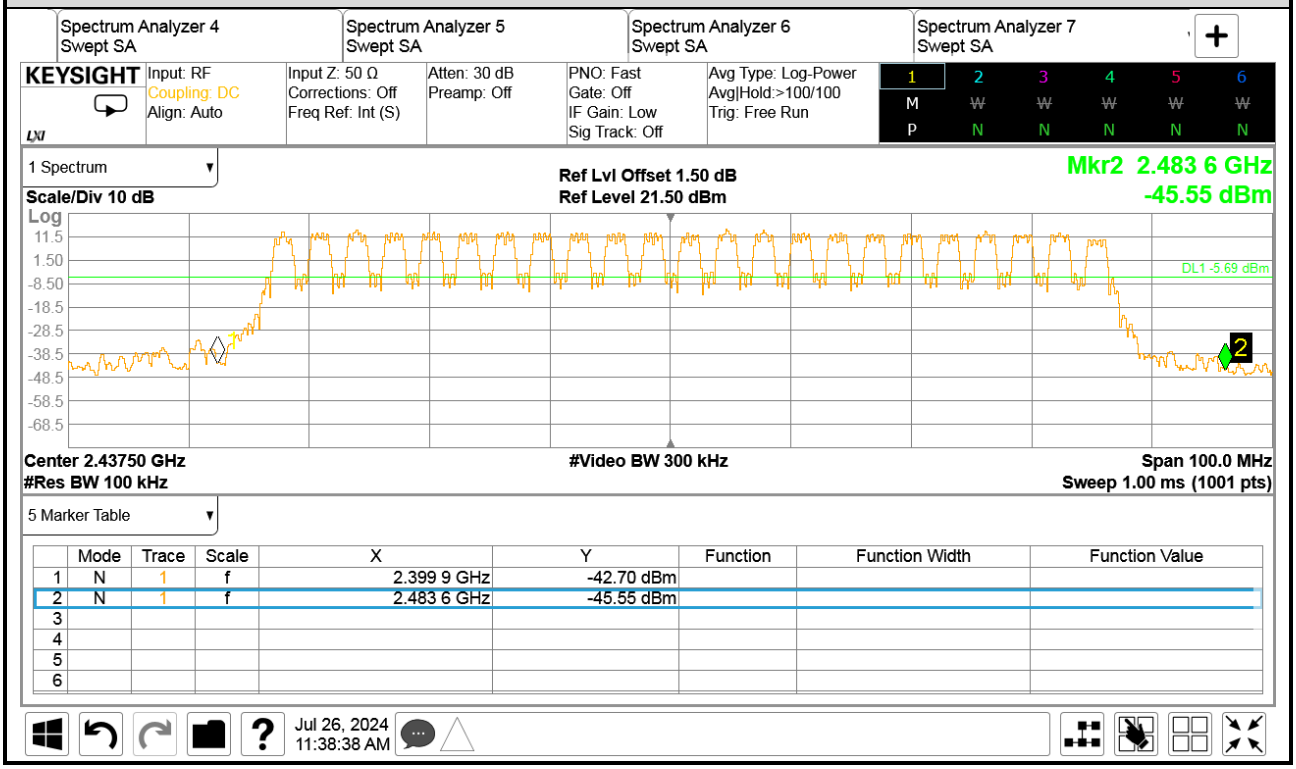
Low channel



High channel



Hopping Mode



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.399 9 GHz	-42.70 dBm			
2	N	1	f	2.483 6 GHz	-45.55 dBm			
3								
4								
5								
6								

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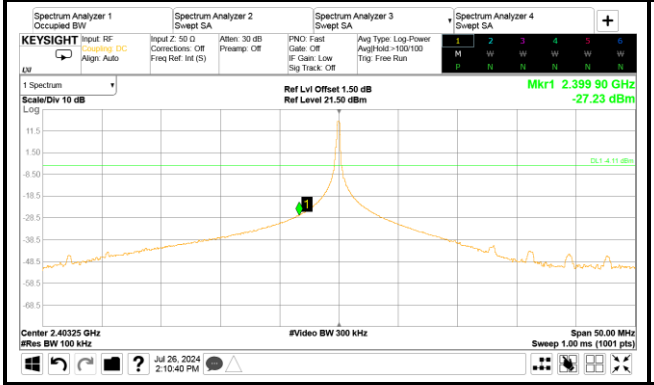
Test Mode: #1 With TC57A RF Module

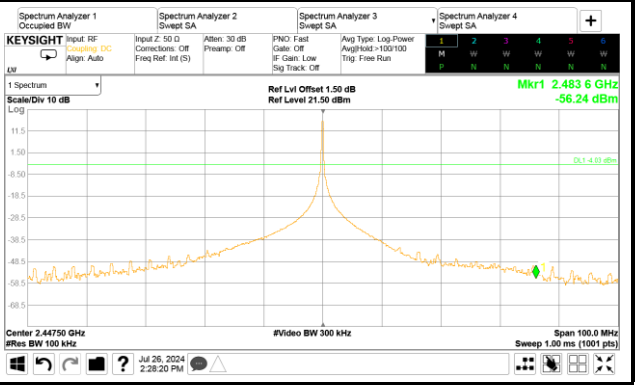
S-FHSS

Single Channel

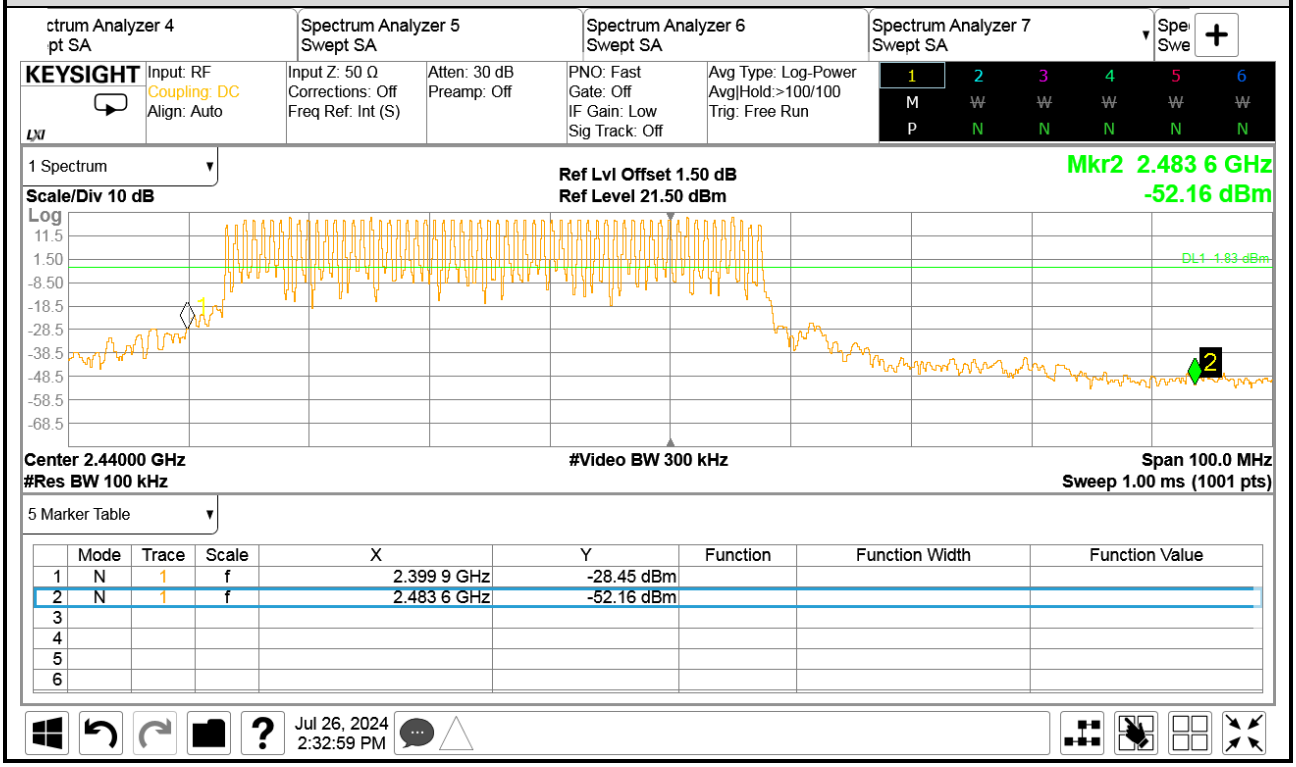
Low channel



High channel



Hopping Mode



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.399 9 GHz	-28.45 dBm			
2	N	1	f	2.483 6 GHz	-52.16 dBm			
3								
4								
5								
6								

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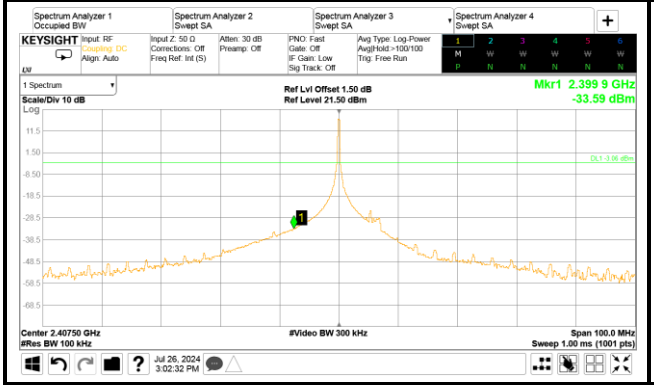
Test Mode: #1 With TC57A RF Module

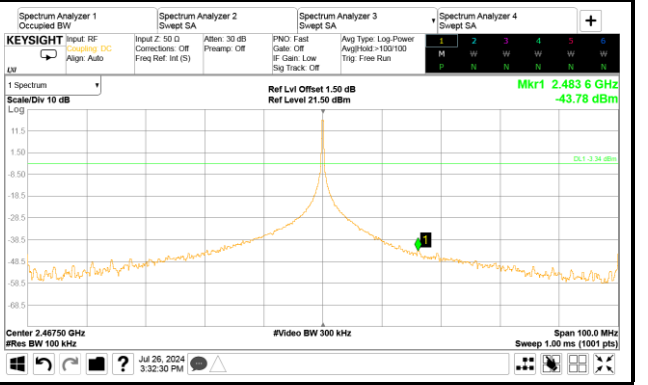
T-FHSS

Single Channel

Low channel



High channel



Hopping Mode

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.399 9 GHz	-33.79 dBm			
2	N	1	f	2.483 6 GHz	-42.16 dBm			
3								
4								
5								
6								

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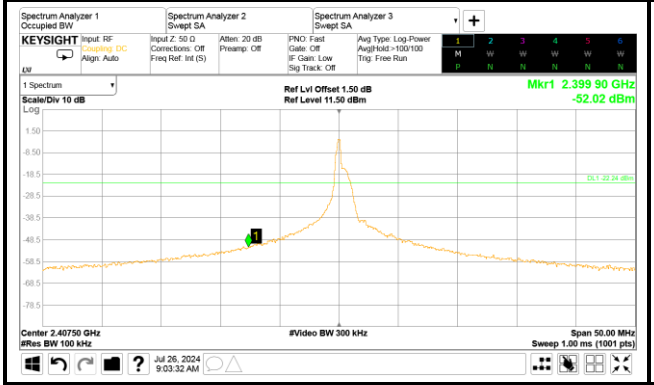
Test Mode: #2 With WTR-16 RF Board

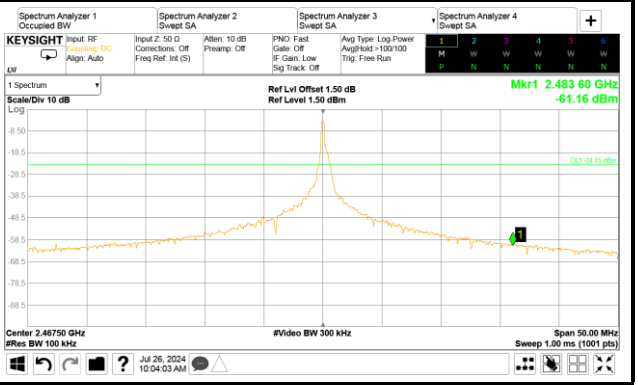
T-FHSS

Single Channel

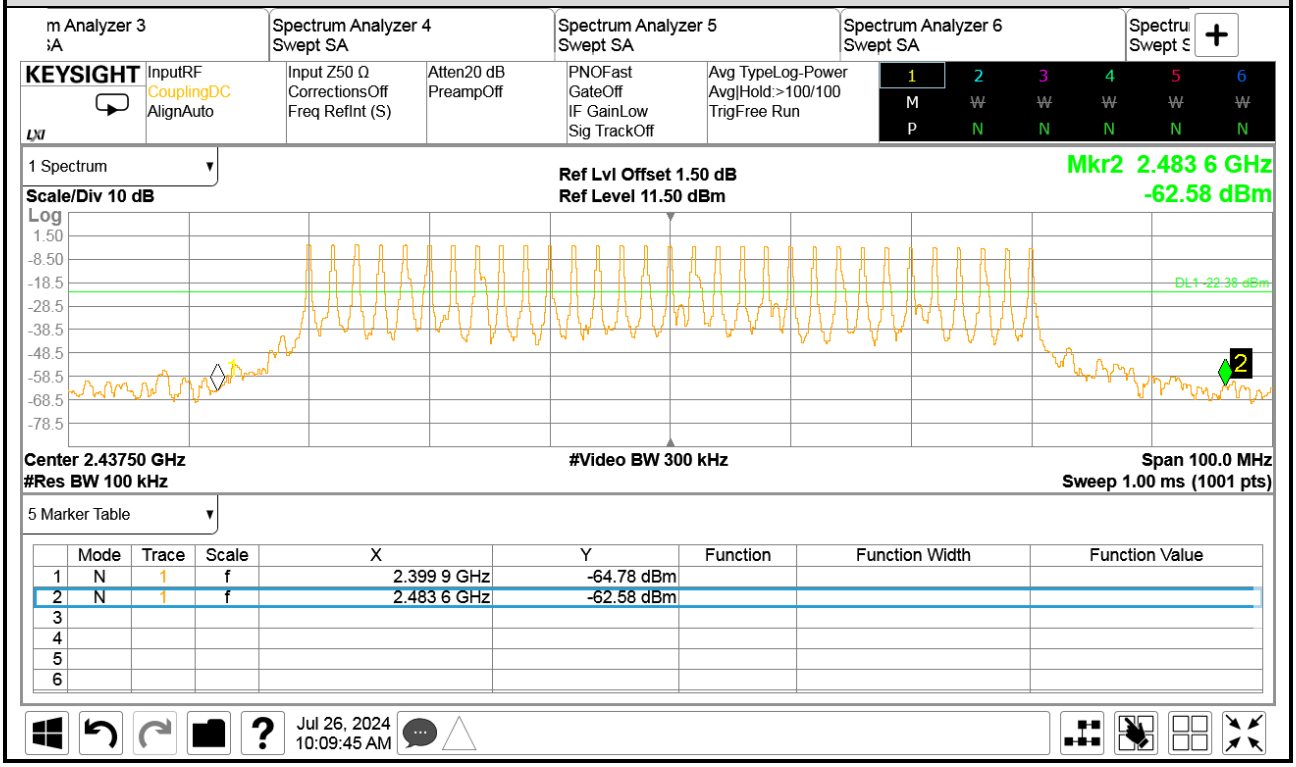
Low channel



High channel



Hopping Mode



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.399 9 GHz	-64.78 dBm			
2	N	1	f	2.483 6 GHz	-62.58 dBm			
3								
4								
5								
6								

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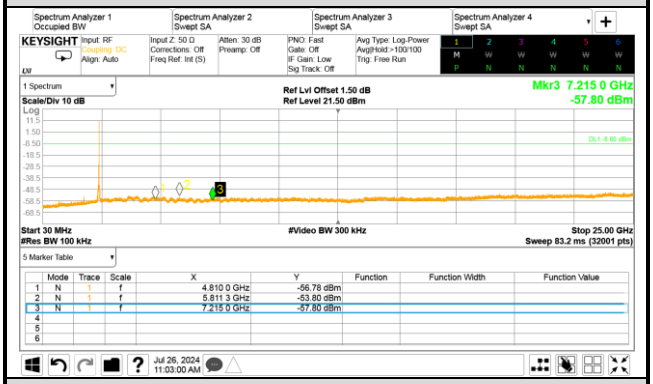
A.8.2 Spurious Emission

Test Date	2024/07/26	Temp./Hum.	24°C/54%
Cable Loss	1.50 dB	Tested By	Sean Wang
Test Voltage	DC 7.4V (Via Battery)		

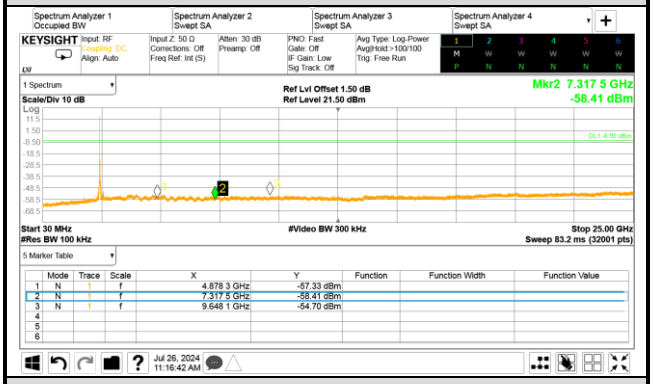
Test Mode: #1 With TC57A RF Module

FASSTest

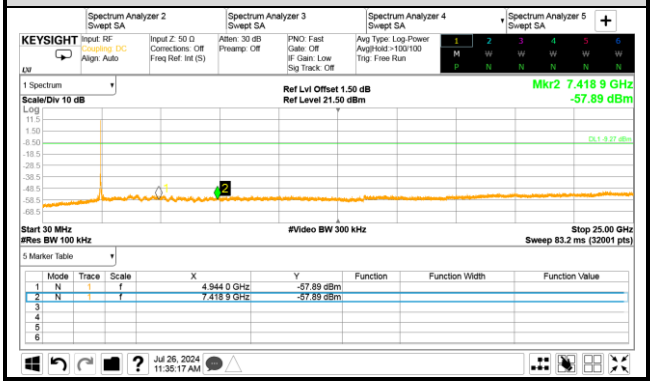
2405.376 MHz



2439.168 MHz



2472.960 MHz



Note: All results have been included cable loss.

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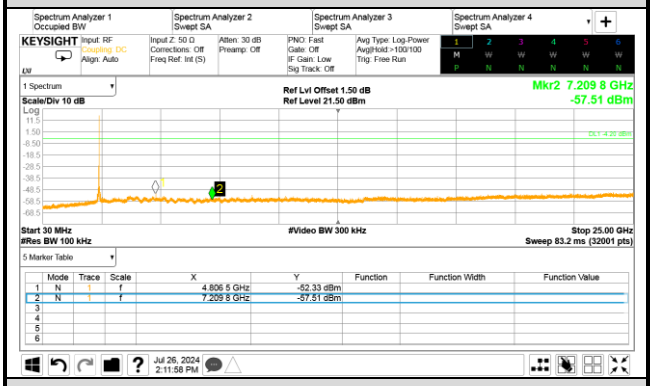
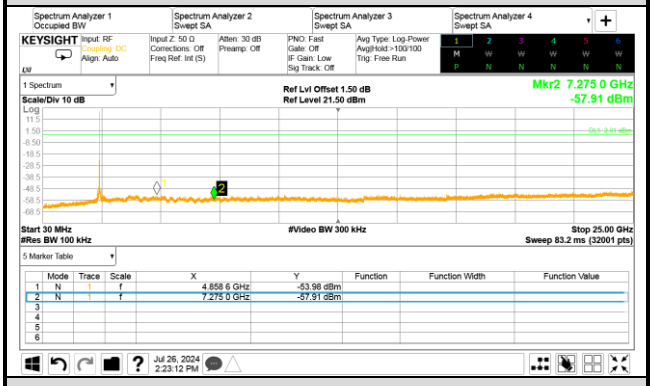
Test Mode: #1 With TC57A RF Module

S-FHSS

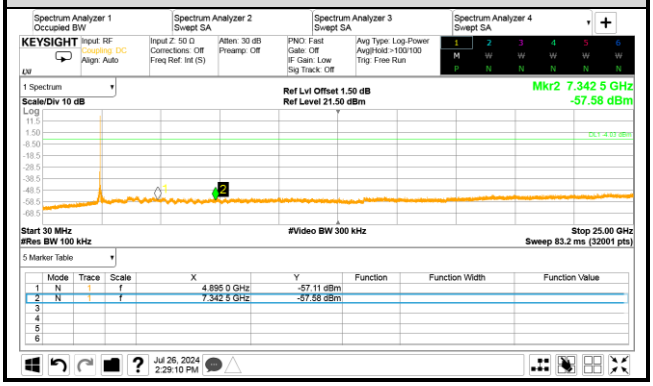
2403.250 MHz



2425.000 MHz



2447.500 MHz



Note: All results have been included cable loss.

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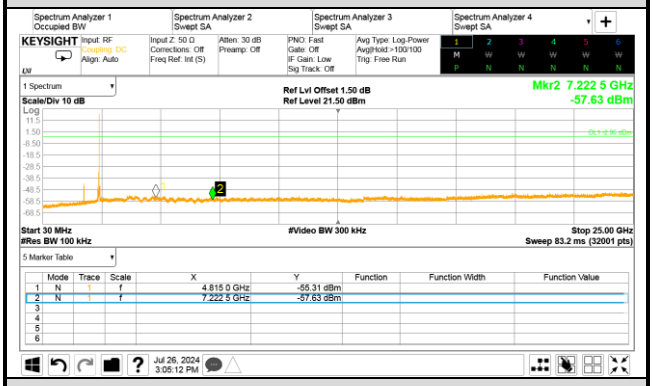
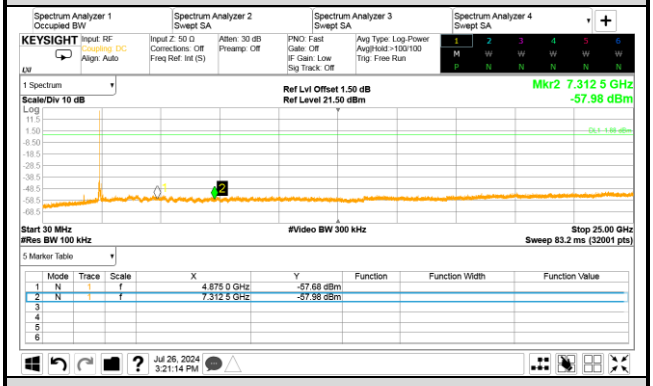
Test Mode: #1 With TC57A RF Module

T-FHSS

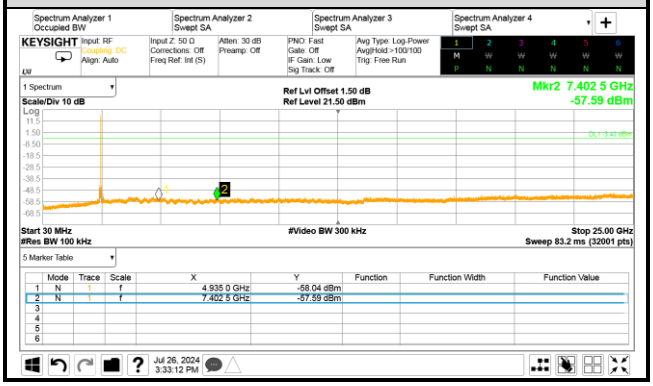
2407.500 MHz



2437.500 MHz



2467.500 MHz



Note: All results have been included cable loss.

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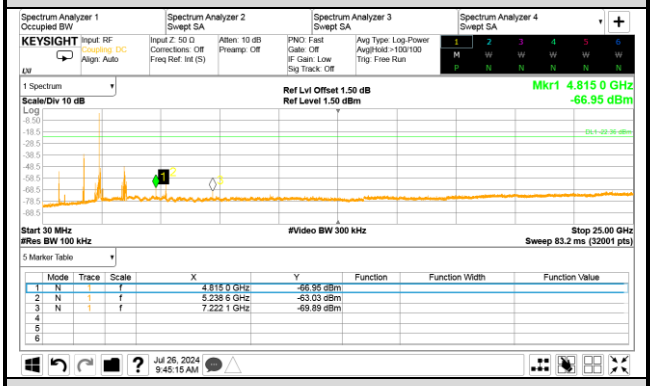
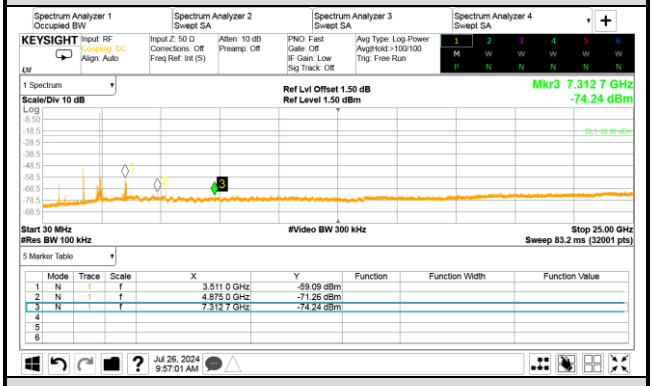
Test Mode: #2 With WTR-16 RF Board

T-FHSS

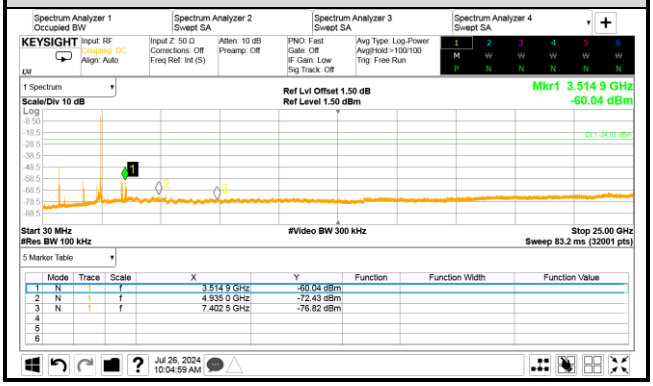
2407.500 MHz



2437.500 MHz



2467.500 MHz



Note: All results have been included cable loss.

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A.9 DTS/Occupied Bandwidth

Test Date	2024/07/30	Temp./Hum.	23°C/57%
Cable Loss	1.20 dB	Tested By	Sean Wang
Test Voltage	DC 7.4V (Via Battery)		

A.9.1 DTS/Occupied Bandwidth Result

Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
FASSTest	2405.376	1.416	2.1469	>500kHz
	2439.168	1.449	2.3510	
	2472.960	1.442	2.4473	

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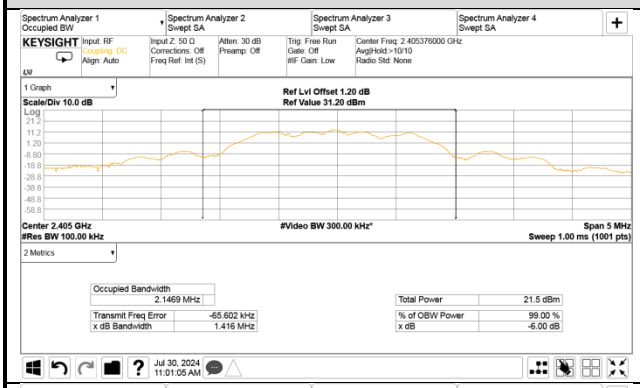
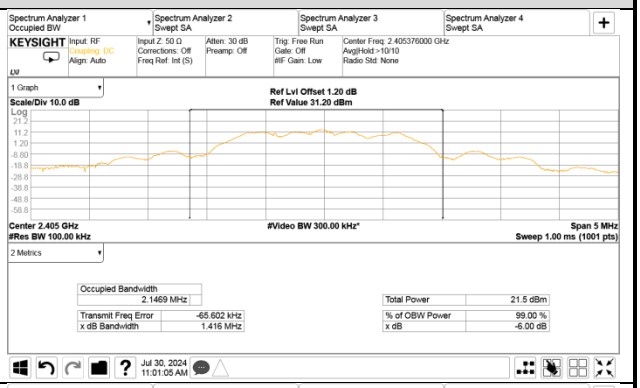
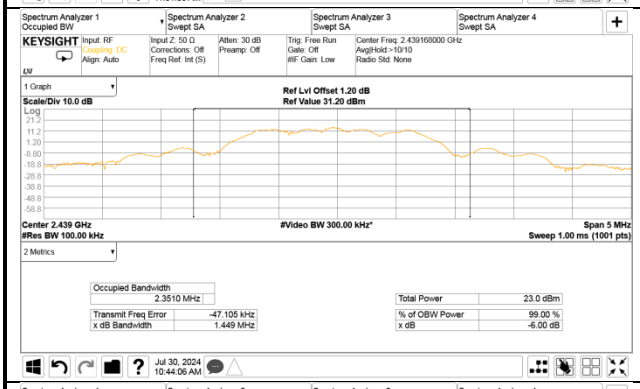
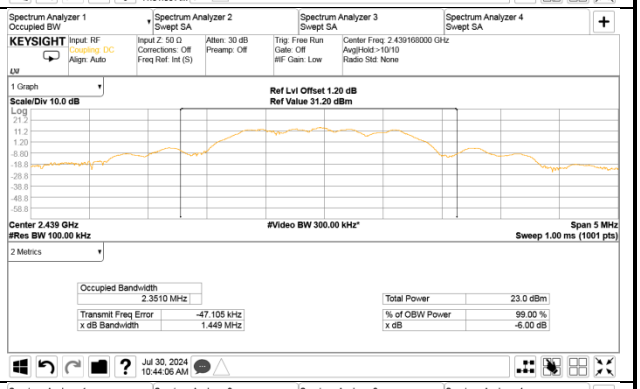
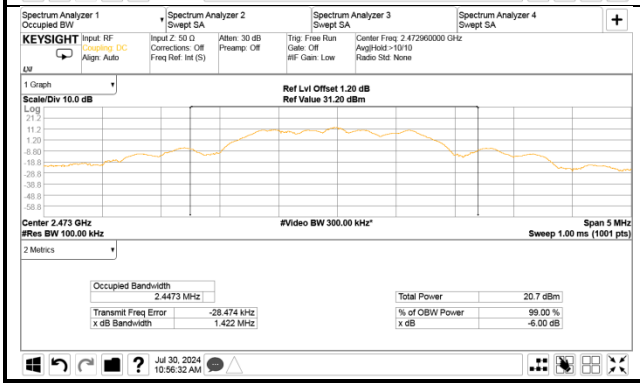
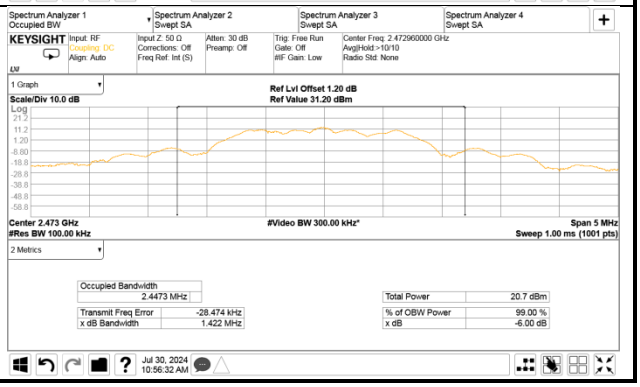
A.9.2 Measurement Plots

- **Test Mode: #1 With TC57A RF Module**

FASSTest	
DTS (6dB) Bandwidth	**Occupied (99%) Bandwidth**
	
	
	

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A.10 POWER SPECTRAL DENSITY

Test Date	2024/07/30	Temp./Hum.	23°C/57%
Cable Loss	1.20 dB	Tested By	Sean Wang
Test Voltage	DC 7.4V (Via Battery)		

A.10.1 Power Spectral Density Result

Test Mode: #1 With TC57A RF Module

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
FASSTest	2405.376	4.51	<8 dBm/3kHz
	2439.168	7.30	
	2472.960	3.53	

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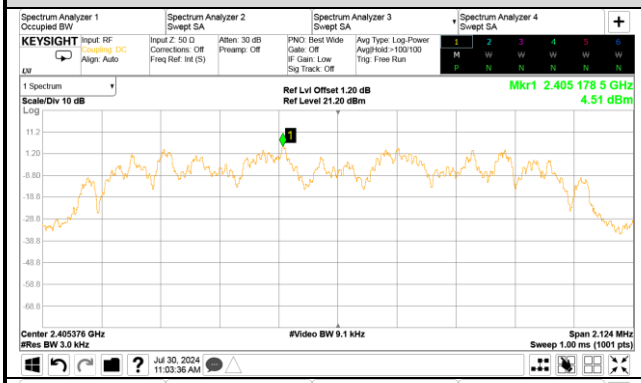
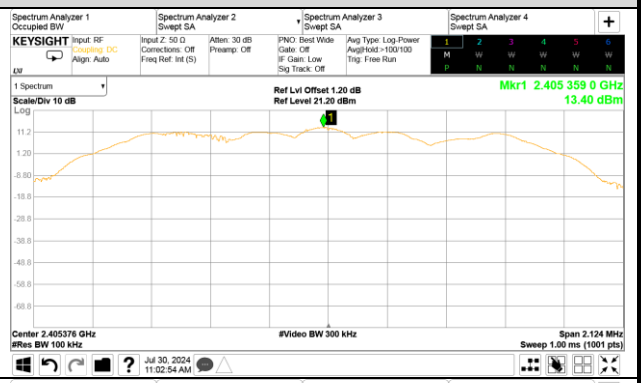
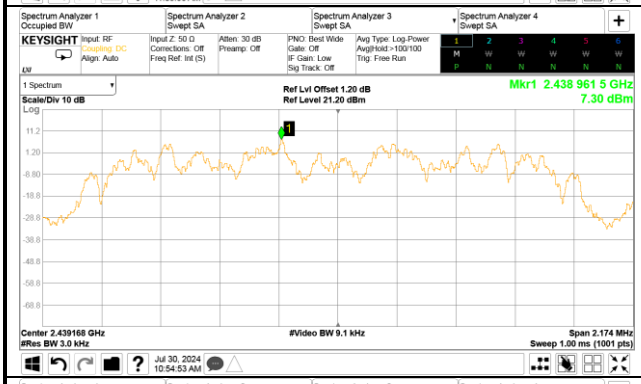
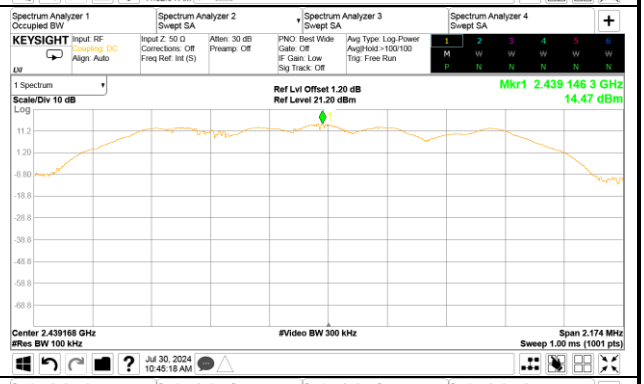
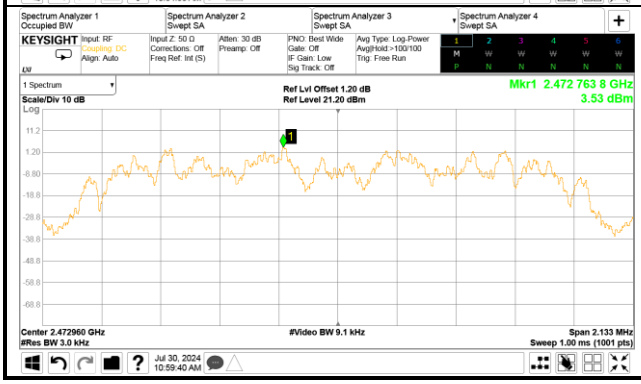
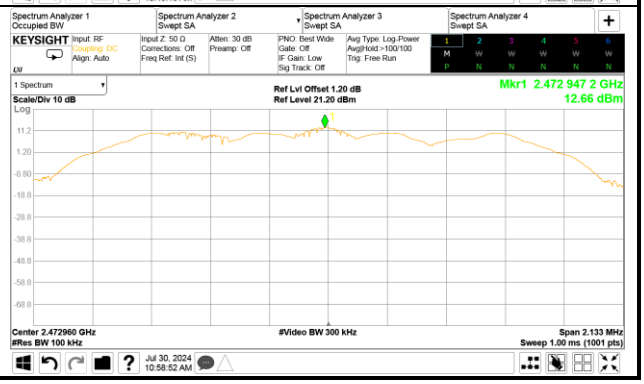
A.10.2 Measurement Plots

- **Test Mode: #1 With TC57A RF Module**

FASSTest	
Power Spectral Density	Ref Level
	
	
	

Note: All results have been included cable loss.

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