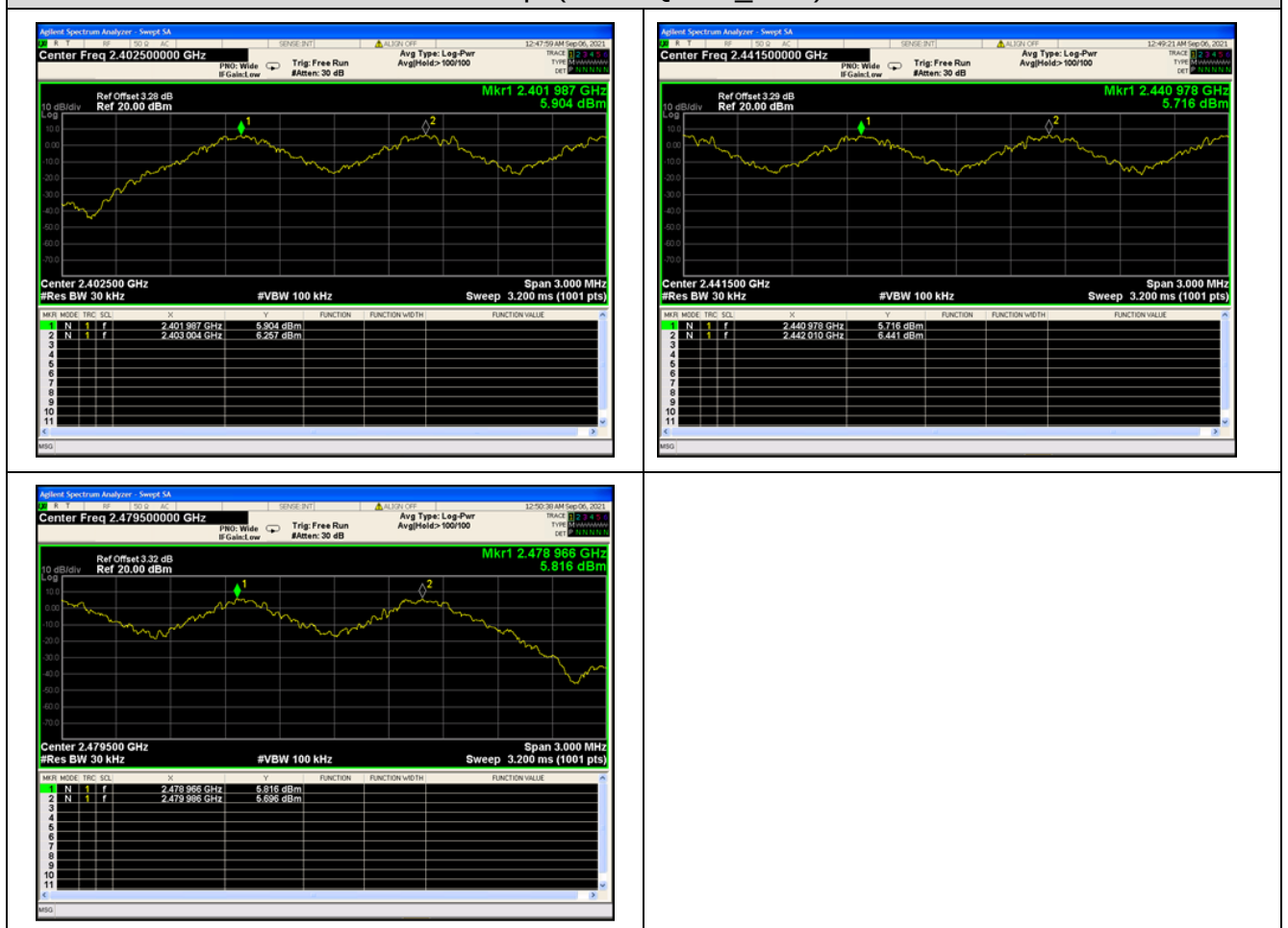


Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 2: Transmit-2Mbps(Pi/4 DQPSK_DH5)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
Mode 2: Transmit-2Mbps(Pi/4 DQPSK_DH5)	00	2402	1017	884.0	Pass
	39	2441	1032	858.7	Pass
	78	2480	1020	858.0	Pass

Note: The limit is two-thirds of the 20 dB bandwidth of the hopping channel.

2Mbps(Pi/4 DQPSK_DH5)

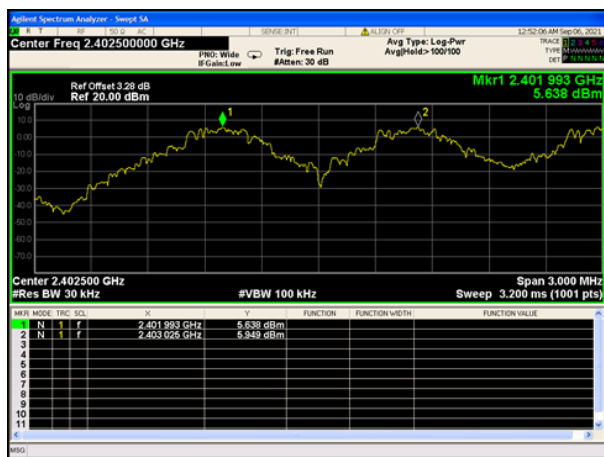


Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 3: Transmit-3Mbps(8DPSK_DH1)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
Mode 3: Transmit-3Mbps(8DPSK_DH1)	00	2402	1032	830.7	Pass
	39	2441	1008	841.3	Pass
	78	2480	963	842.0	Pass

Note: The limit is two-thirds of the 20 dB bandwidth of the hopping channel.

3Mbps(8DPSK_DH1)

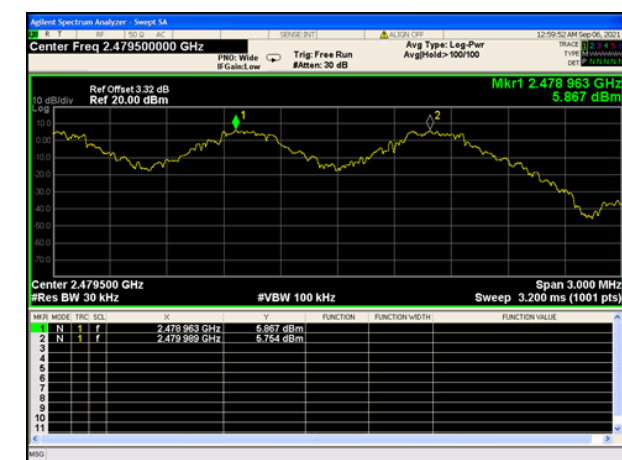
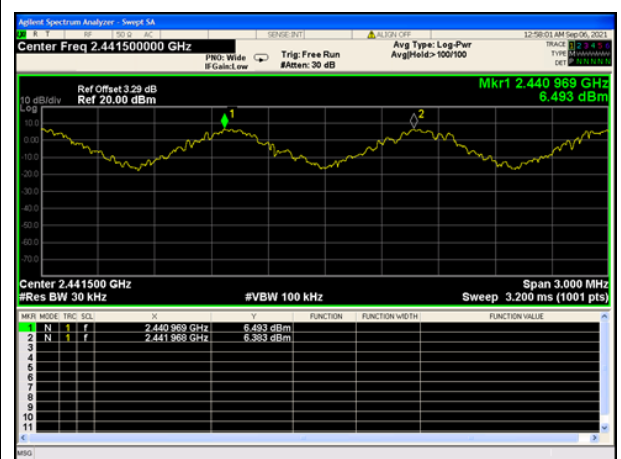
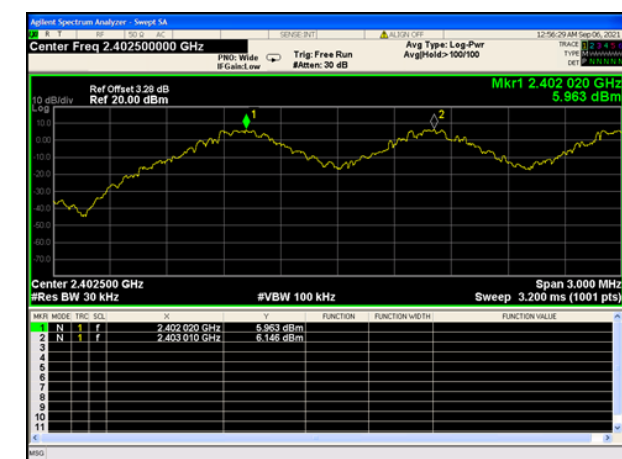


Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 3: Transmit-3Mbps(8DPSK_DH3)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
Mode 3: Transmit-3Mbps(8DPSK_DH3)	00	2402	990	861.3	Pass
	39	2441	999	862.7	Pass
	78	2480	1026	864.7	Pass

Note: The limit is two-thirds of the 20 dB bandwidth of the hopping channel.

3Mbps(8DPSK_DH3)

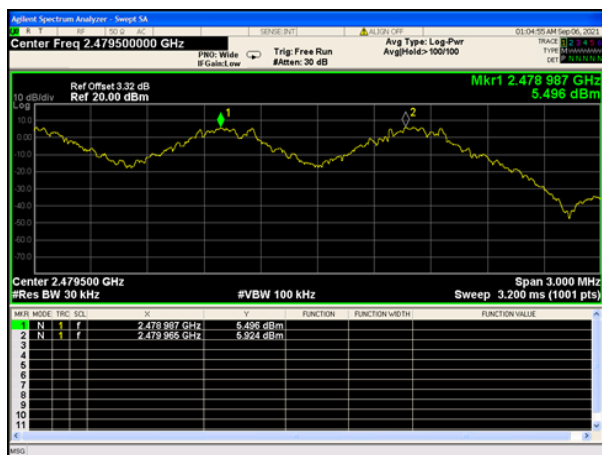
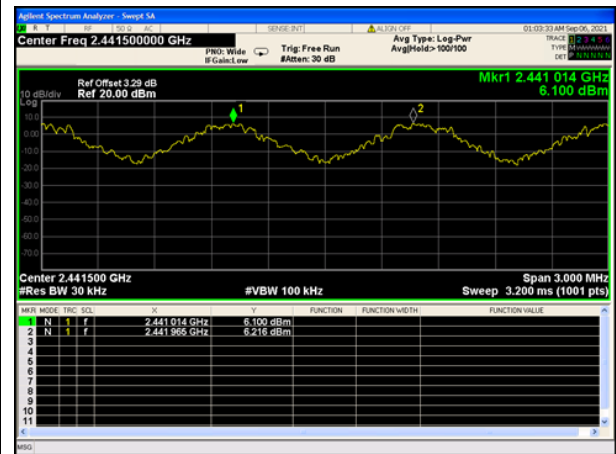
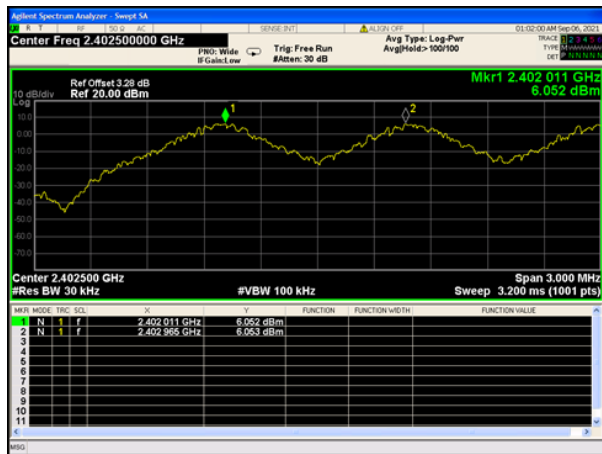


Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 3: Transmit-3Mbps(8DPSK_DH5)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
Mode 3: Transmit-3Mbps(8DPSK_DH5)	00	2402	954	863.3	Pass
	39	2441	951	868.7	Pass
	78	2480	978	867.3	Pass

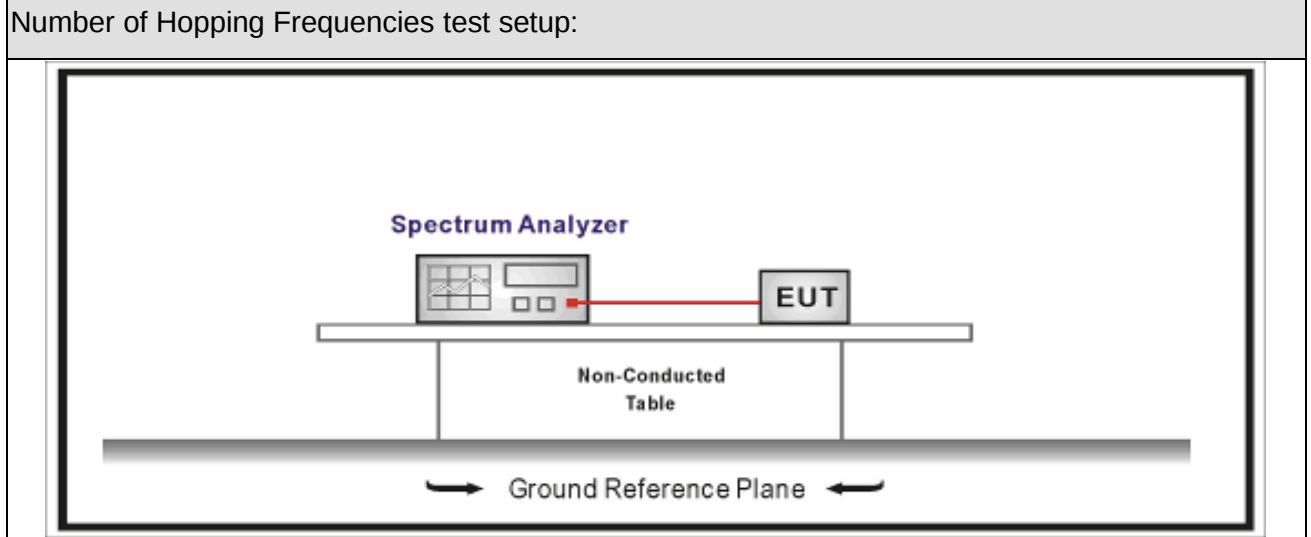
Note: The limit is two-thirds of the 20 dB bandwidth of the hopping channel.

3Mbps(8DPSK_DH5)



8. Number of Hopping Frequencies

8.1. Test Setup



8.2. Limit

Number of Hopping Frequencies	
☒	For frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is less than 250 kHz, shall use at least 50 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is higher than 250 kHz, shall use at least 25 hopping frequencies.
☐	For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

8.3. Test Procedure

Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	7.8.3	Number of Hopping Frequencies

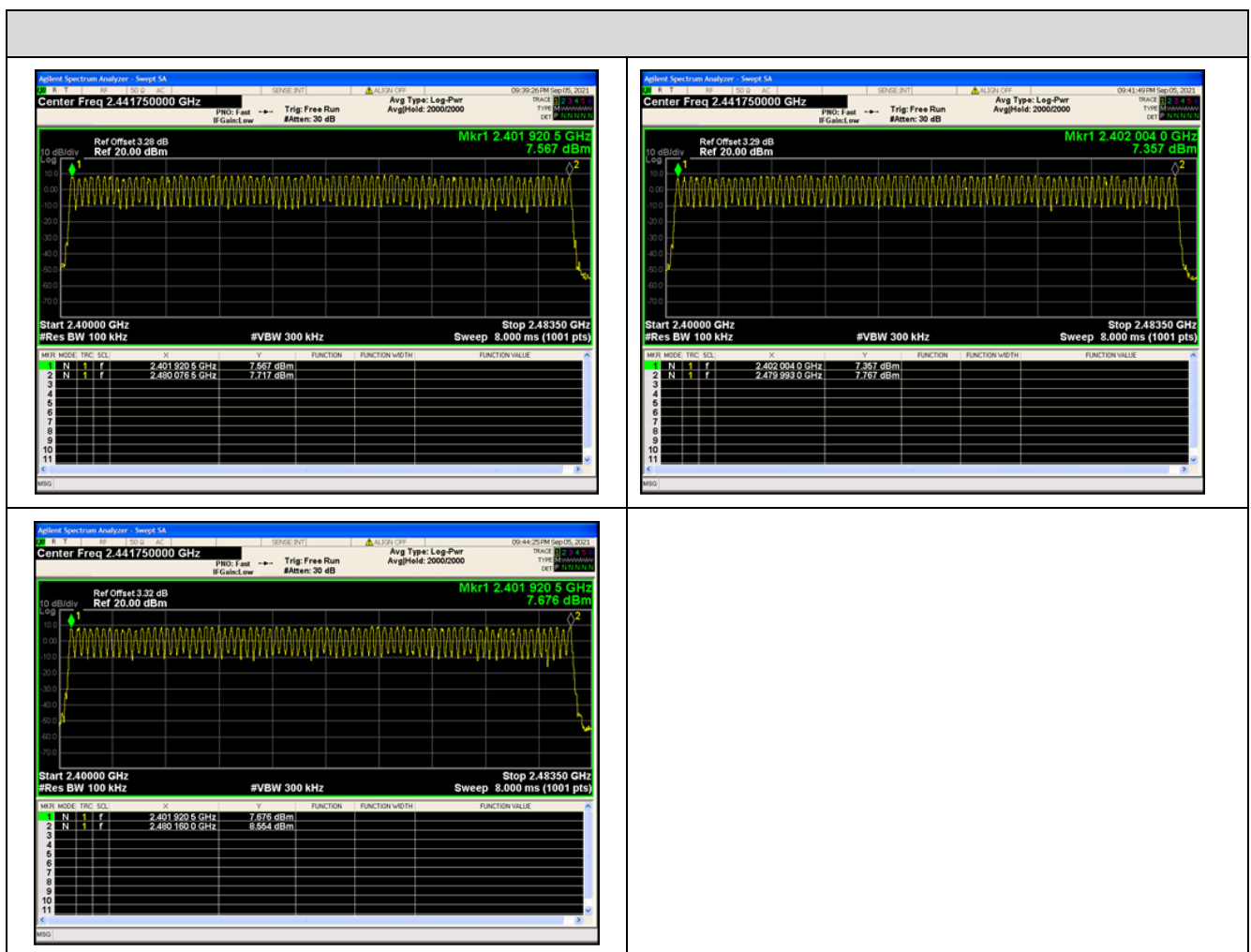
8.4. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

8.5. Test Result

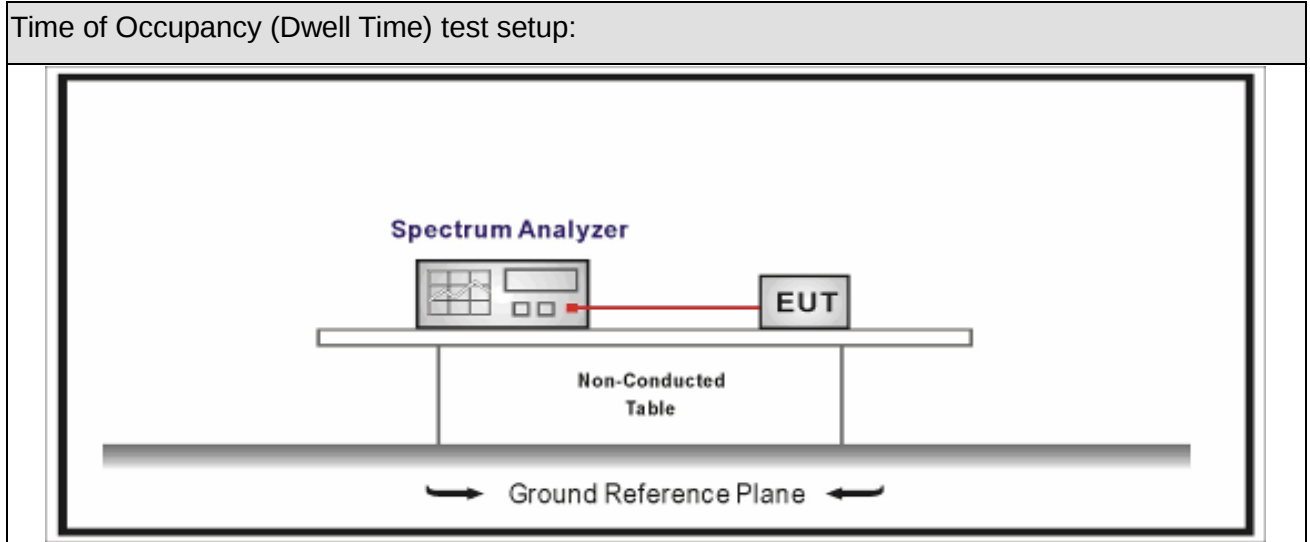
Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 4: Transmitter-Hopping	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Number of Hopping	Limit	Result
Hopping – 1Mbps	79	>15	Pass
Hopping – 2Mbps	79	>15	Pass
Hopping – 3Mbps	79	>15	Pass



9. Time of Occupancy (Dwell Time)

9.1. Test Setup



9.2. Limit

Time of Occupancy (Dwell Time)	
☒	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
☐	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period
☐	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.
☐	Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

9.3. Test Procedure

Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	7.8.4	Time of Occupancy (Dwell Time)

9.4. Uncertainty

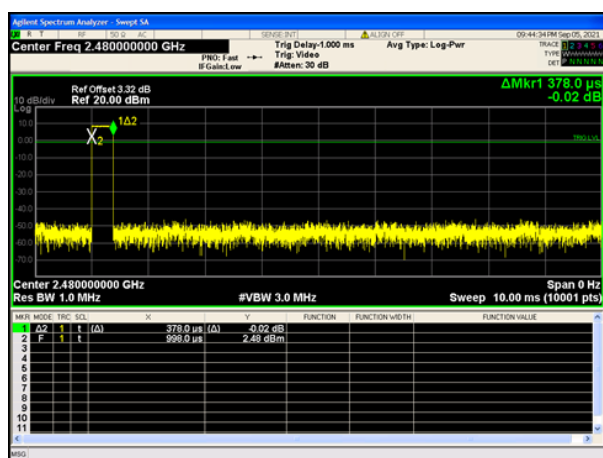
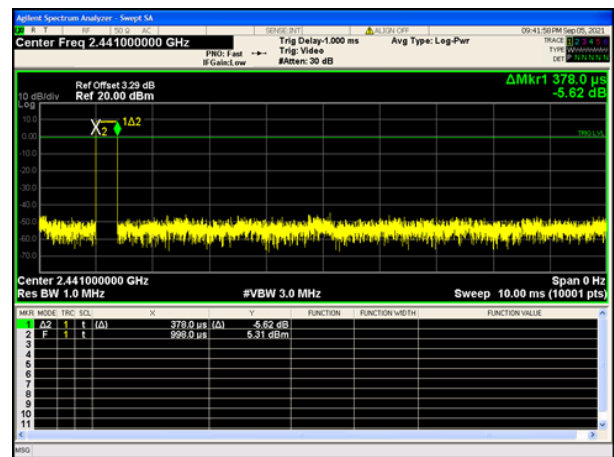
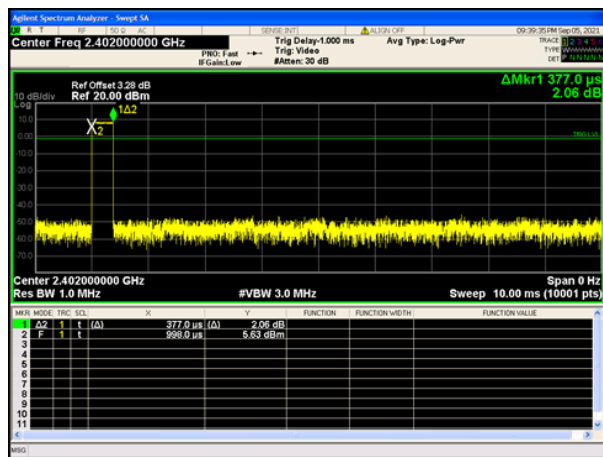
The measurement uncertainty is defined as ± 0.1 us

9.5. Test Result

Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 1: Transmit-1Mbps(GFSK_DH1)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 1: Transmit-1Mbps(GFSK_DH1)	00	2402	0.377	120.64	31600	400	Pass
	39	2441	0.378	120.96	31600	400	Pass
	78	2480	0.378	120.96	31600	400	Pass

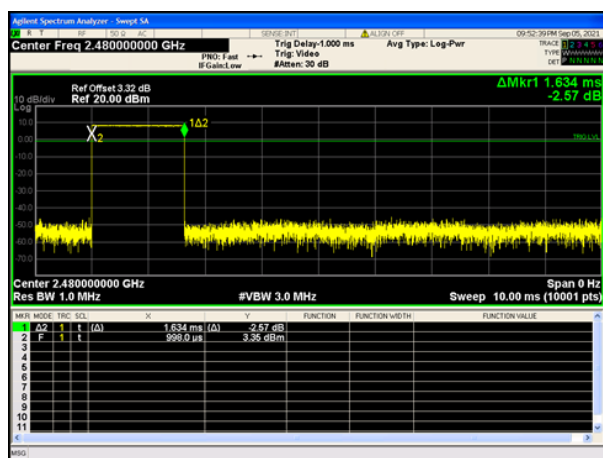
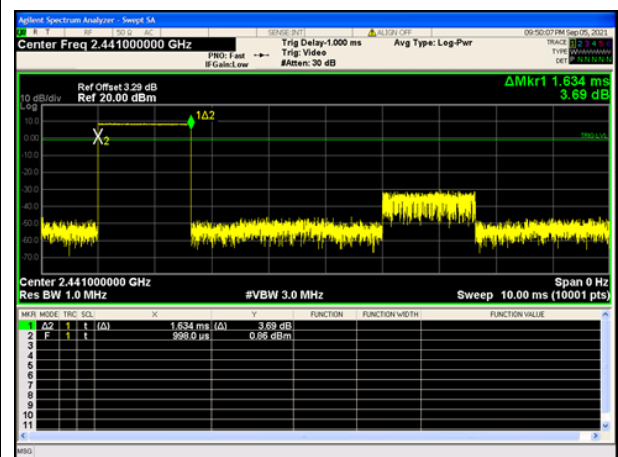
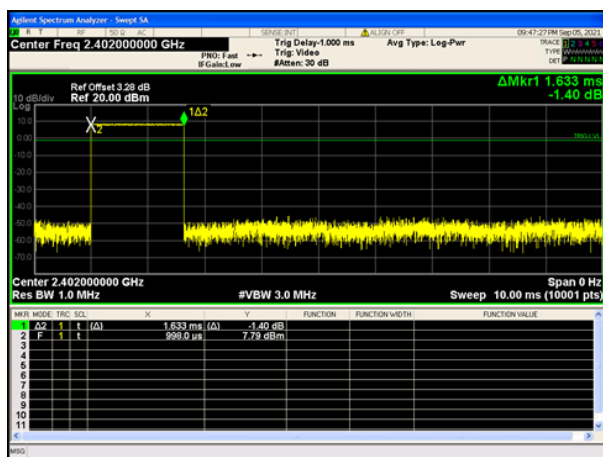
1Mbps(GFSK_DH1)



Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 1: Transmit-1Mbps(GFSK_DH3)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 1: Transmit-1Mbps(GFSK_DH3)	00	2402	1.633	261.28	31600	400	Pass
	39	2441	1.634	261.44	31600	400	Pass
	78	2480	1.634	261.44	31600	400	Pass

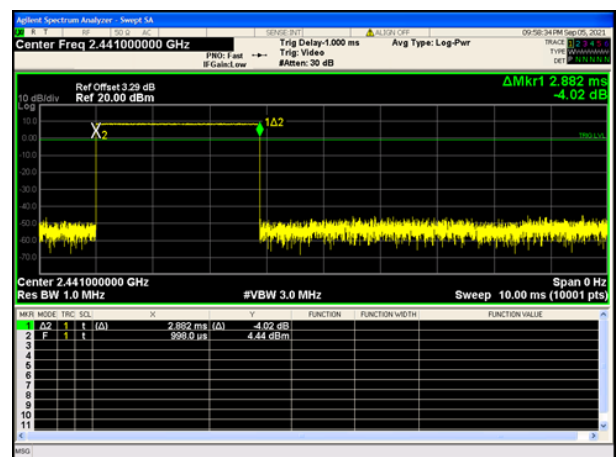
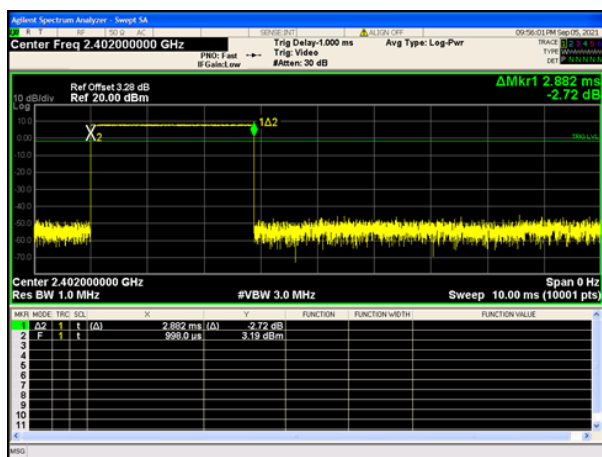
1Mbps(GFSK_DH3)



Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 1: Transmit-1Mbps(GFSK_DH5)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 1: Transmit-1Mbps(GFSK_DH5)	00	2402	2.882	307.413	31600	400	Pass
	39	2441	2.882	307.413	31600	400	Pass
	78	2480	2.881	307.307	31600	400	Pass

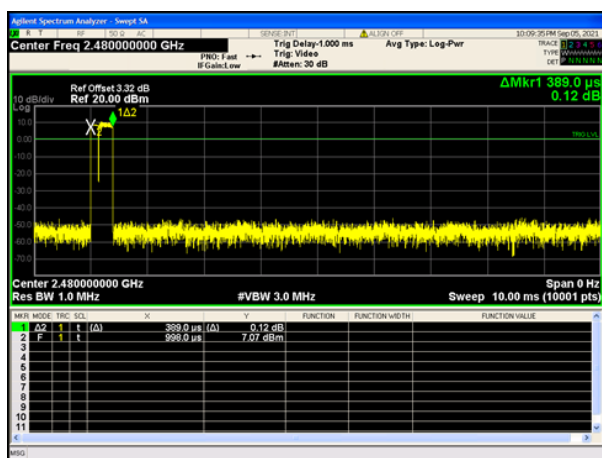
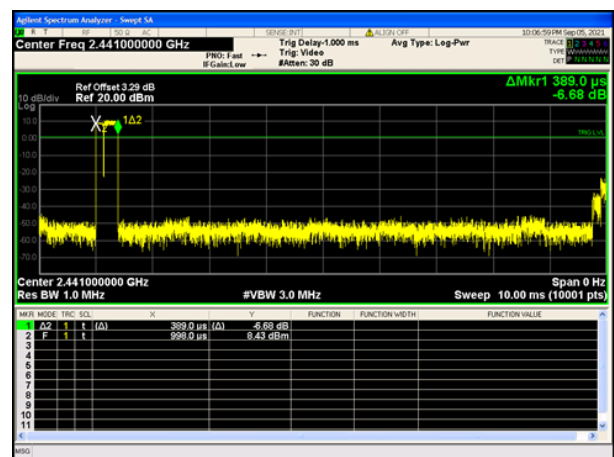
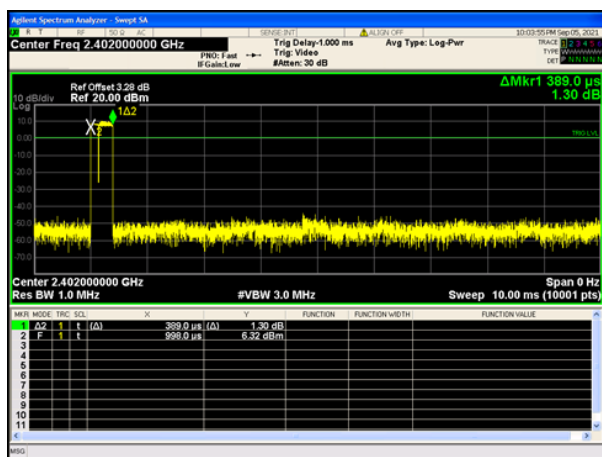
1Mbps(GFSK_DH5)



Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 2: Transmit-2Mbps (Pi/4 DQPSK_DH1)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 2: Transmit-2Mbps(Pi/4 DQPSK_DH1)	00	2402	0.389	124.48	31600	400	Pass
	39	2441	0.389	124.48	31600	400	Pass
	78	2480	0.389	124.48	31600	400	Pass

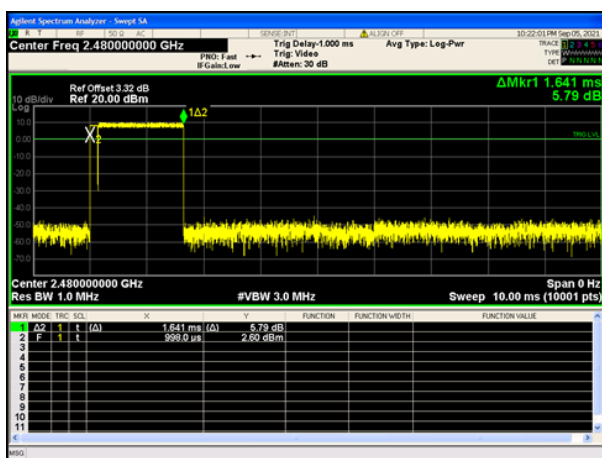
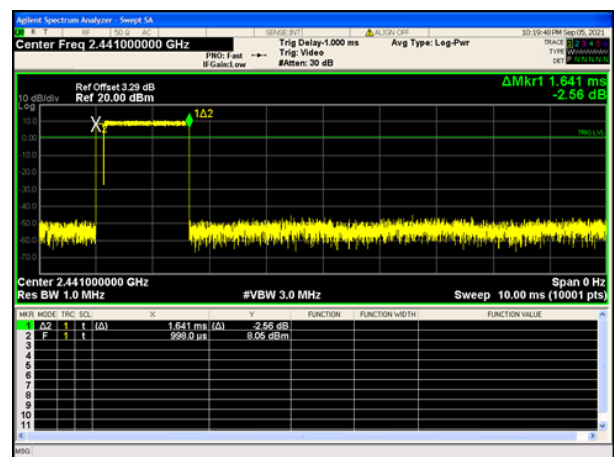
2Mbps(Pi/4 DQPSK_DH1)



Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 2: Transmit-2Mbps(Pi/4 DQPSK_DH3)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 2: Transmit-2Mbps(Pi/4 DQPSK_DH3)	00	2402	1.641	262.56	31600	400	Pass
	39	2441	1.641	262.56	31600	400	Pass
	78	2480	1.641	262.56	31600	400	Pass

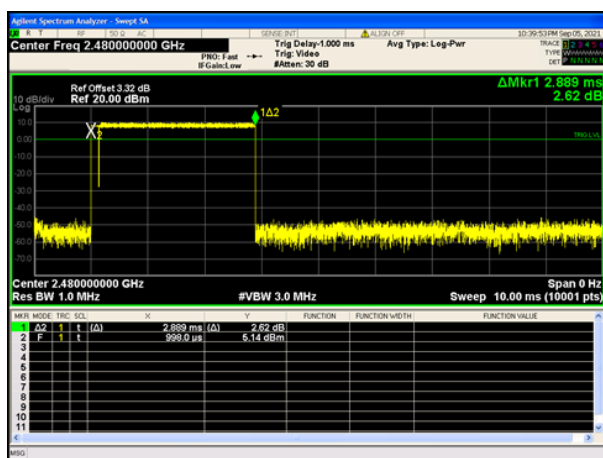
2Mbps(Pi/4 DQPSK_DH3)



Product Name	:	Massage Chair	Power	:	120V/60Hz
Test Mode	:	Mode 2: Transmit-2Mbps(Pi/4 DQPSK _DH5)	Test Site	:	Test Room#1
Test Date	:	2021.09.06	Test Engineer	:	Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 2: Transmit-2Mbps(Pi/4 DQPSK_DH5)	00	2402	2.889	308.16	31600	400	Pass
	39	2441	2.888	308.053	31600	400	Pass
	78	2480	2.889	308.16	31600	400	Pass

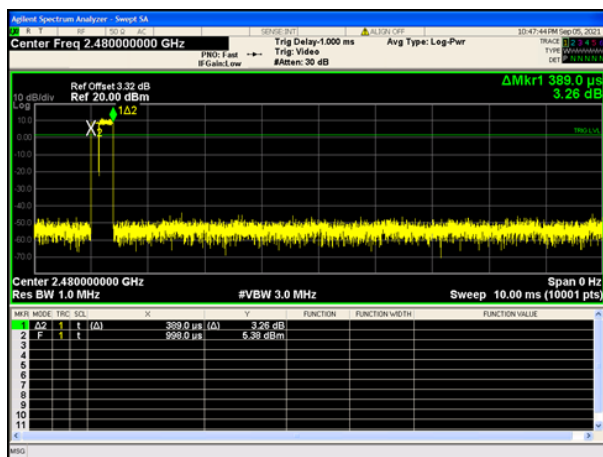
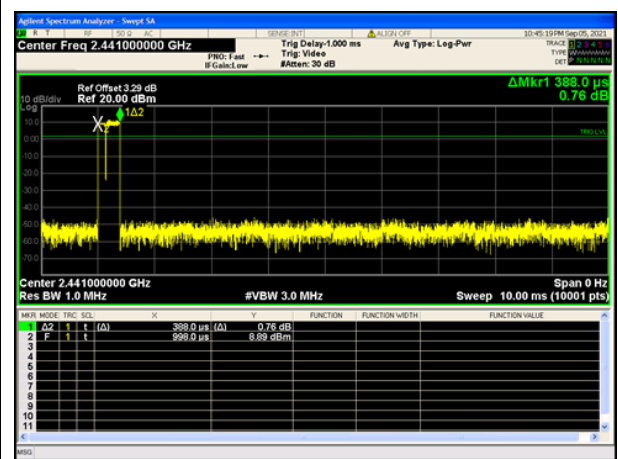
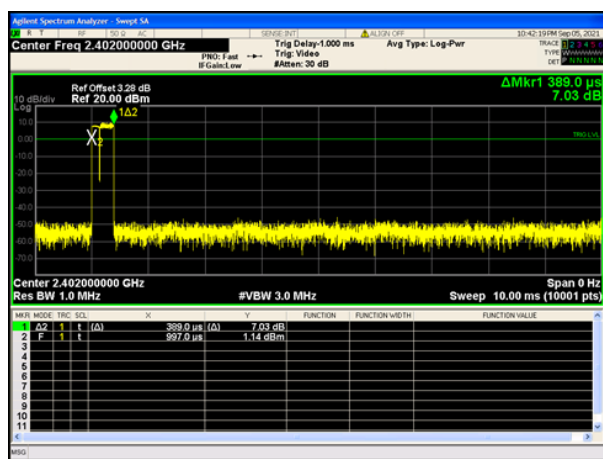
2Mbps(Pi/4 DQPSK _DH5)



Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 3: Transmit-3Mbps (8 DPSK_DH1)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 3: Transmit-3Mbps(8DPSK_DH1)	00	2402	0.389	124.48	31600	400	Pass
	39	2441	0.388	124.16	31600	400	Pass
	78	2480	0.389	124.48	31600	400	Pass

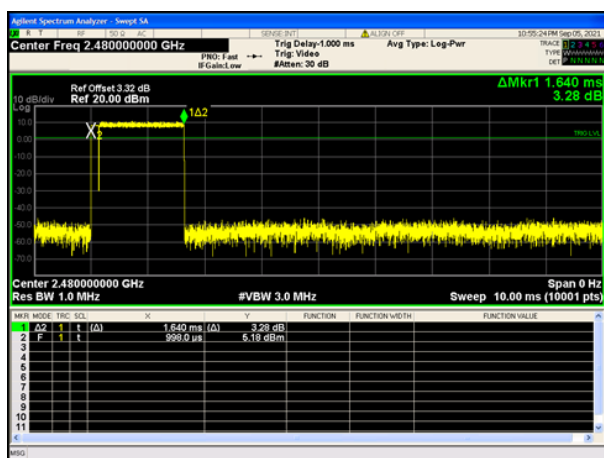
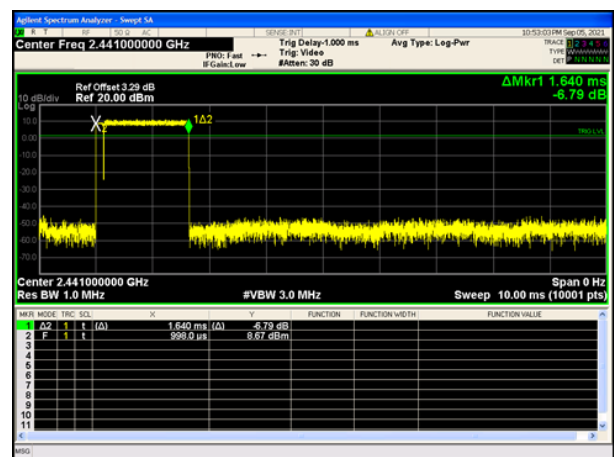
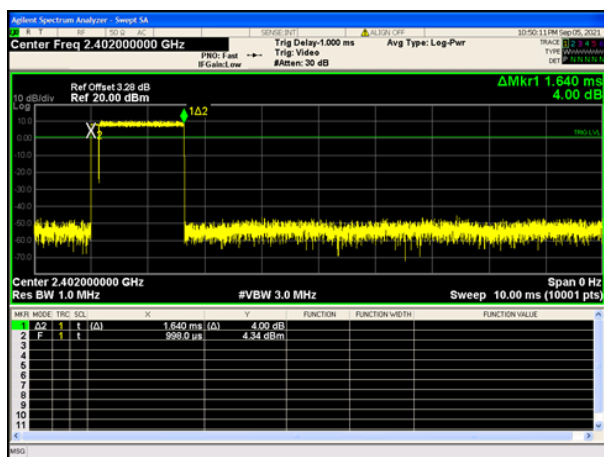
3Mbps(8DPSK_DH1)



Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 3: Transmit-3Mbps(8DPSK_DH3)	Test Site	: Test Room#1
Test Date	: 2021.09.06	Test Engineer	: Heaven

Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 3: Transmit-3Mbps(8DPSK_DH3)	00	2402	1.64	262.4	31600	400	Pass
	39	2441	1.64	262.4	31600	400	Pass
	78	2480	1.64	262.4	31600	400	Pass

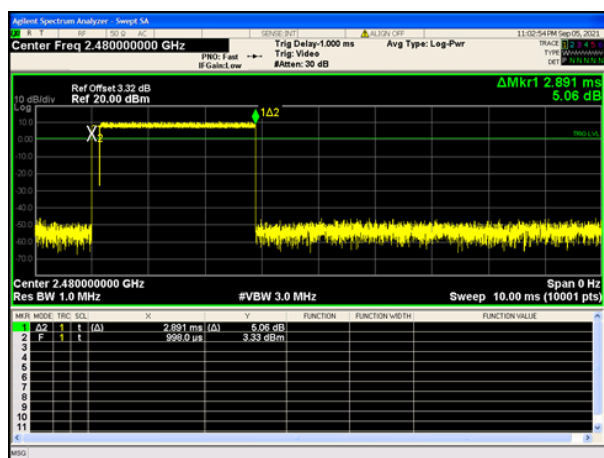
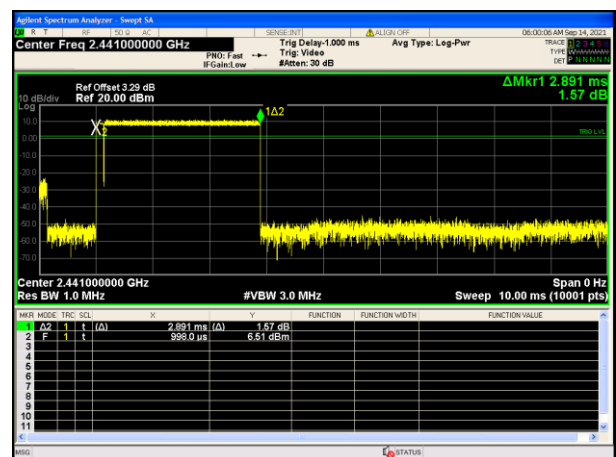
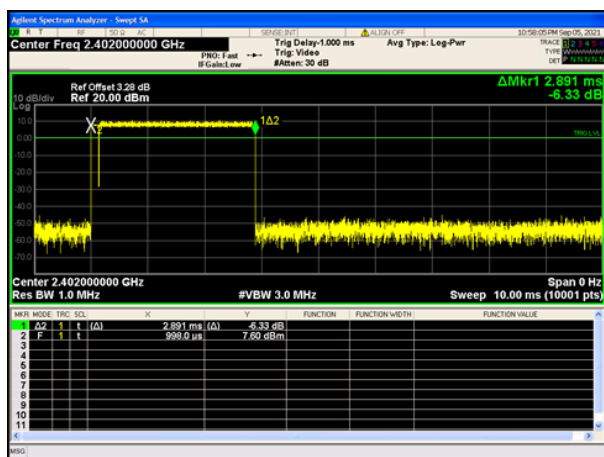
3Mbps(8DPSK_DH3)



Product Name	: Massage Chair	Power	: 120V/60Hz
Test Mode	: Mode 3: Transmit-3Mbps(8DPSK_DH5)	Test Site	: Test Room#1
Test Date	: 2021.09.06 & 2021.09.14	Test Engineer	: Heaven

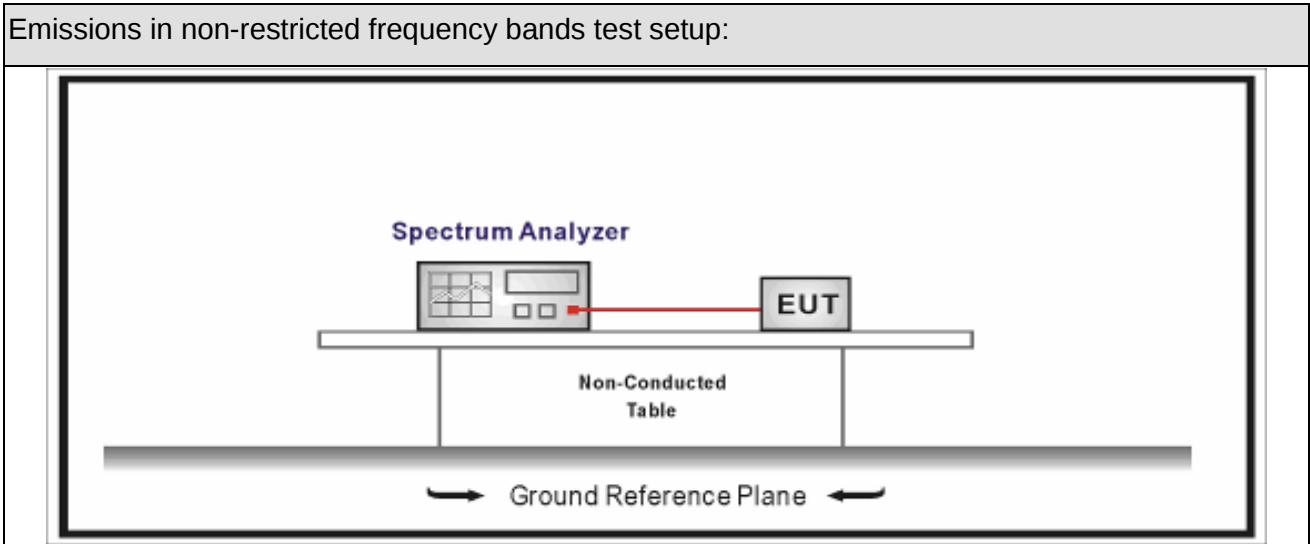
Mode	Channel No.	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Result
Mode 3: Transmit-3Mbps(8DPSK_DH5)	00	2402	2.891	308.373	31600	400	Pass
	39	2441	2.891	308.373	31600	400	Pass
	78	2480	2.891	308.373	31600	400	Pass

3Mbps(8DPSK_DH5)



10. Emissions in non-restricted frequency bands

10.1. Test Setup



10.2. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

10.3. Test Procedure

Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	7.8.6	Band-edge Compliance of RF Conducted Emissions

10.4. Uncertainty

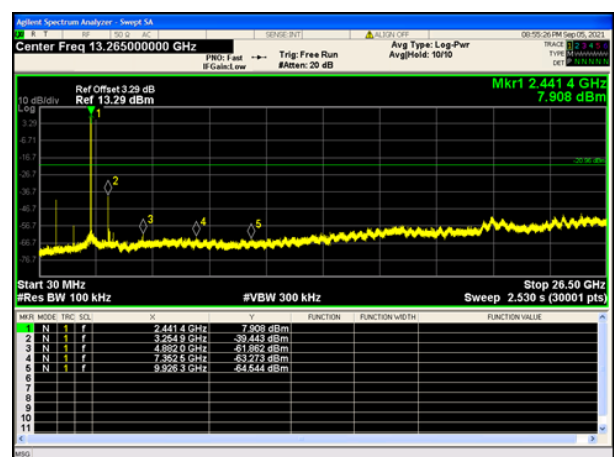
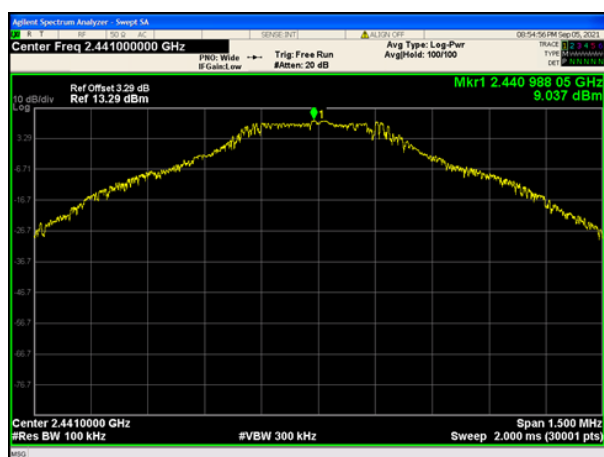
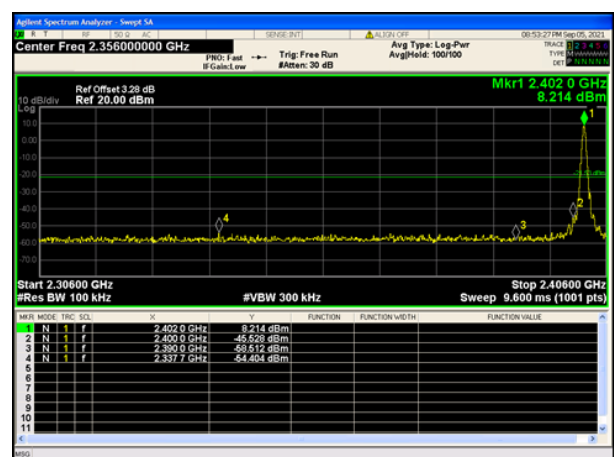
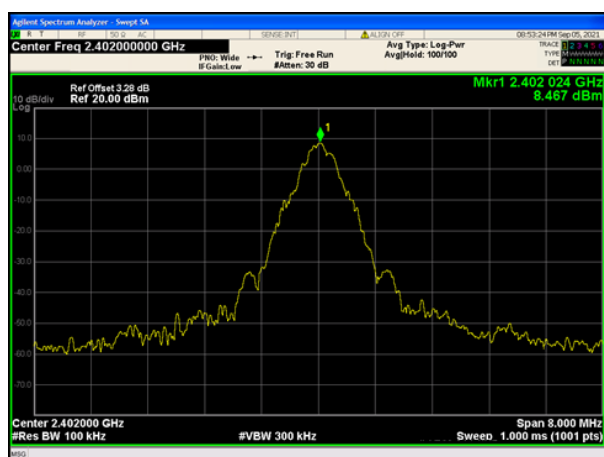
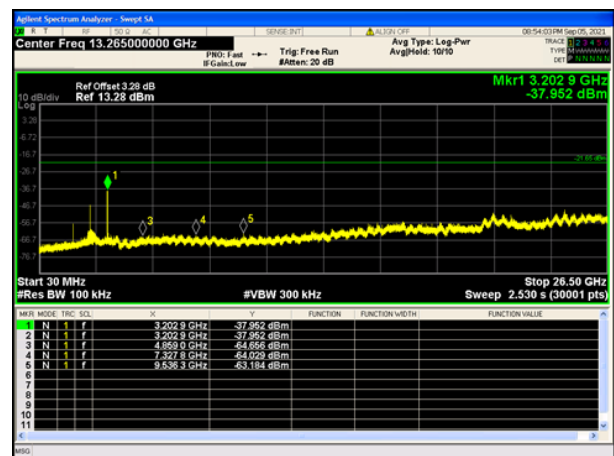
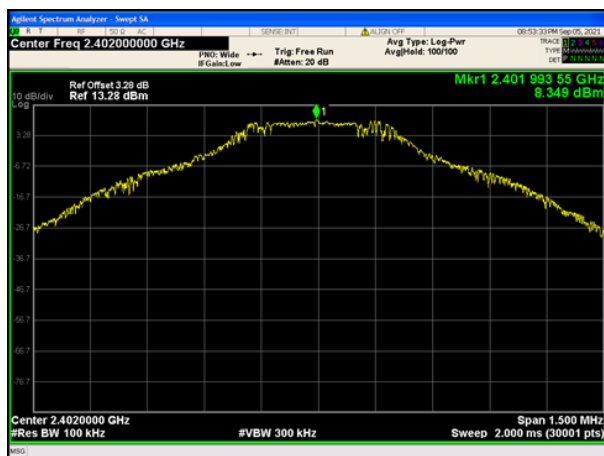
The measurement uncertainty is defined as ± 1.0 dB

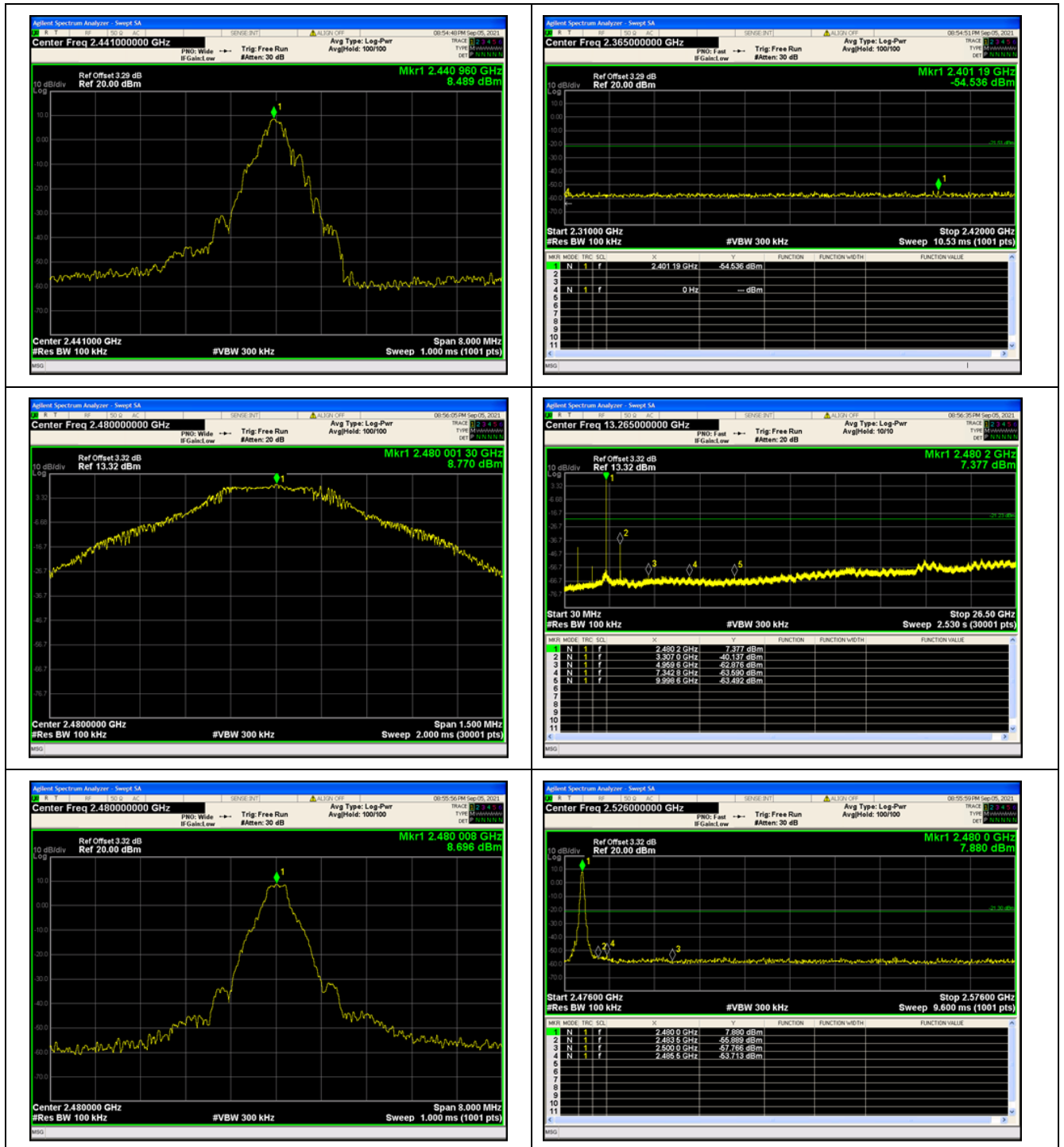
10.5. Test Result

Product Name	:	Massage Chair	Power	:	120V/60Hz
Test Mode	:	Mode 1: Transmit-1Mbps(GFSK_DH1)	Test Site	:	Test Room#1
Test Date	:	2021.09.06	Test Engineer	:	Heaven

Mode	Channel	Test Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Result
Mode 1: Transmit -1Mbps(GFSK_DH1)	00	2402	-46.30	-20	Pass
	39	2441	-48.48	-20	Pass
	78	2480	-48.90	-20	Pass

1Mbps(GFSK_DH1)

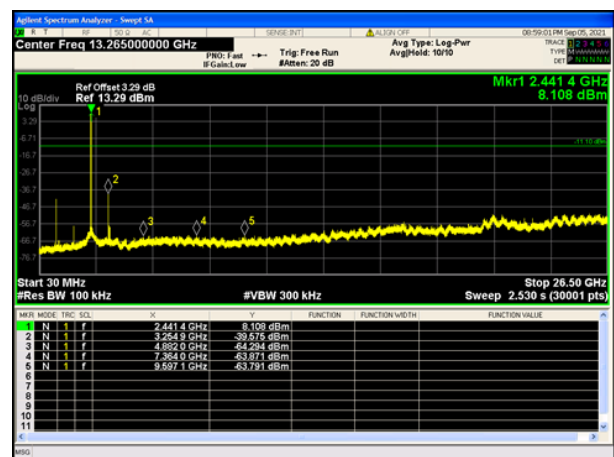
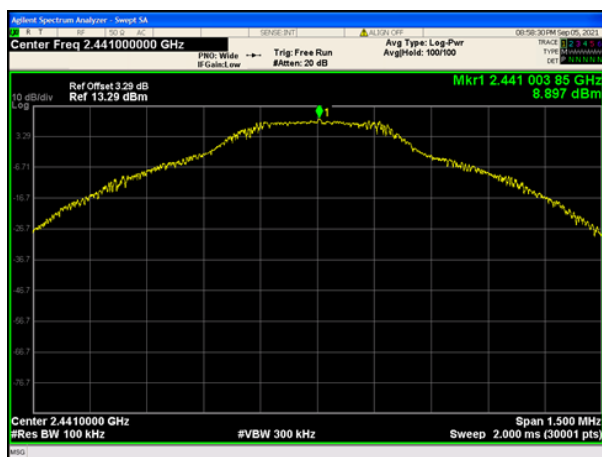
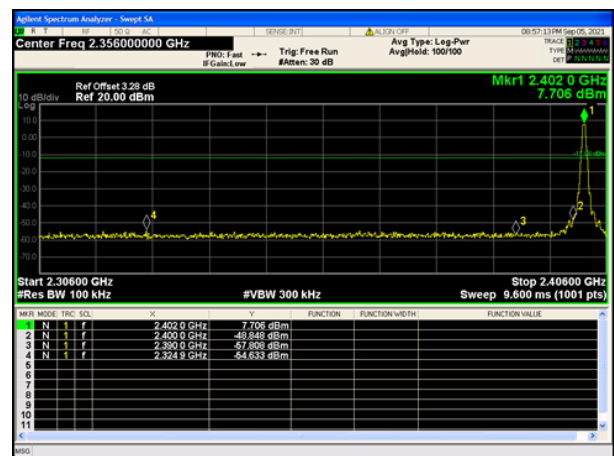
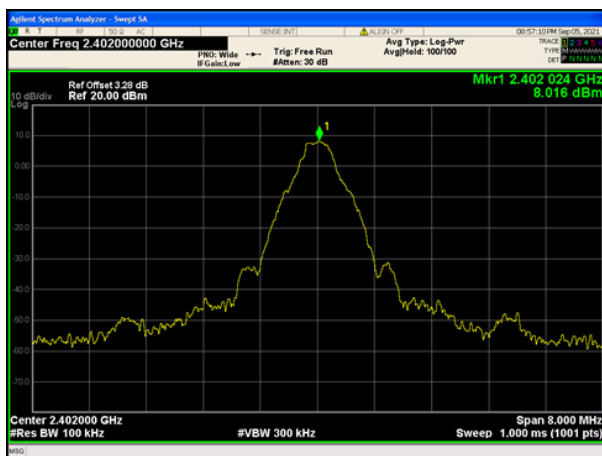
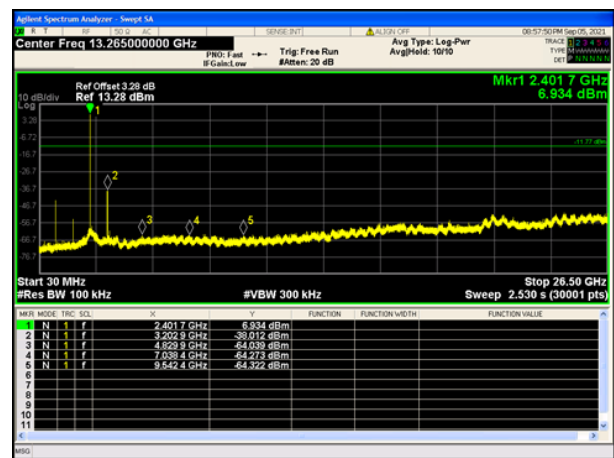
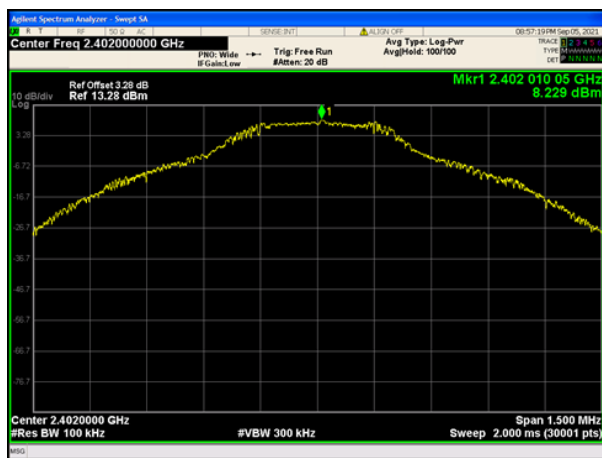


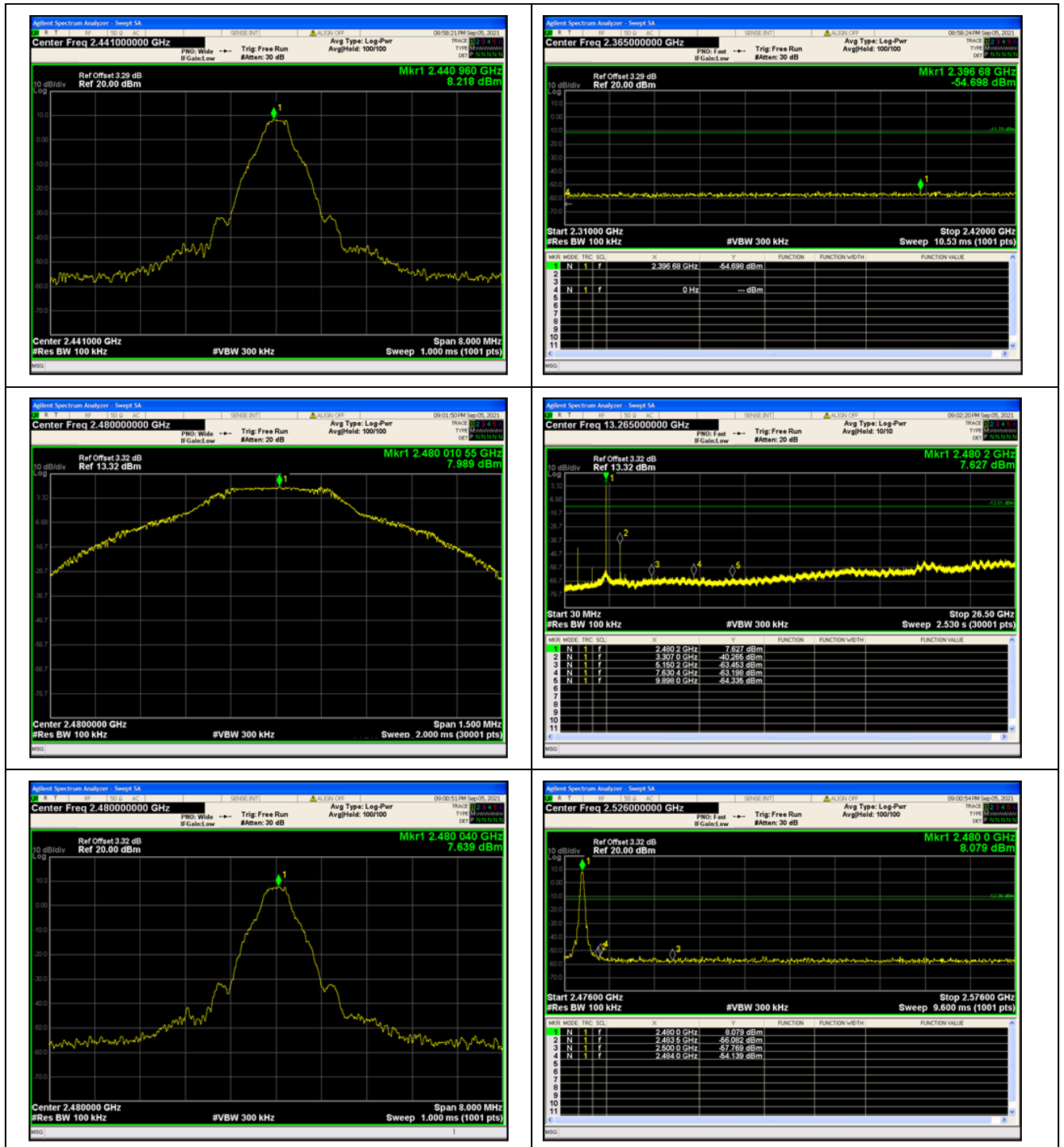


Product Name	:	Massage Chair	Power	:	120V/60Hz
Test Mode	:	Mode 1: Transmit-1Mbps(GFSK_DH3)	Test Site	:	Test Room#1
Test Date	:	2021.09.06	Test Engineer	:	Heaven

Mode	Channel	Test Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Result
Mode 1: Transmit -1Mbps(GFSK_DH3)	00	2402	-46.24	-20	Pass
	39	2441	-48.47	-20	Pass
	78	2480	-48.25	-20	Pass

1Mbps(GFSK_DH3)

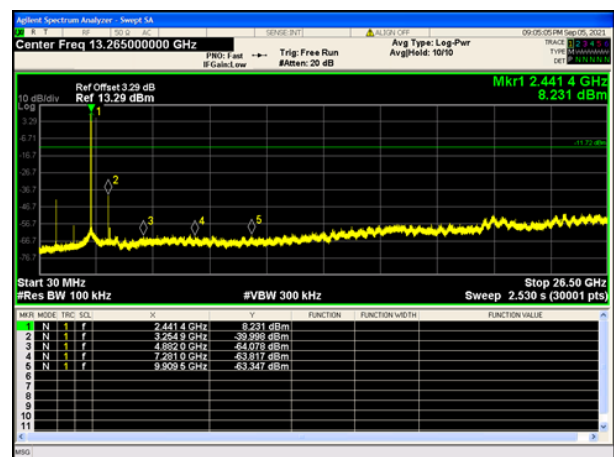
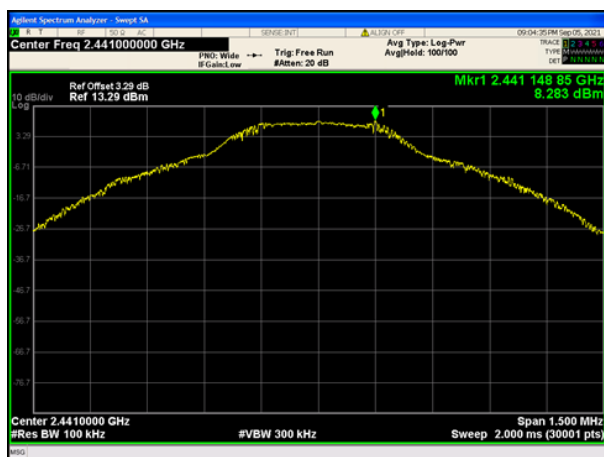
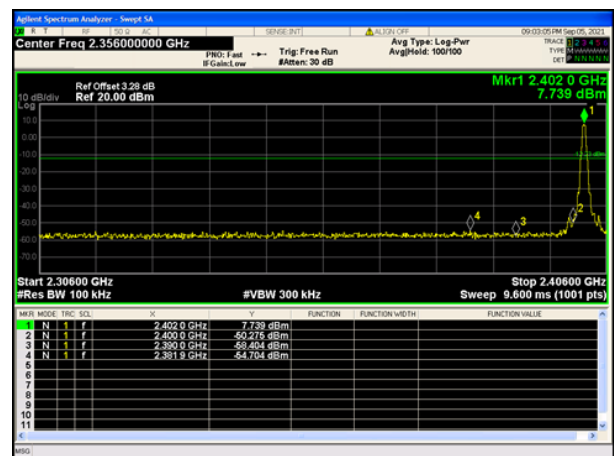
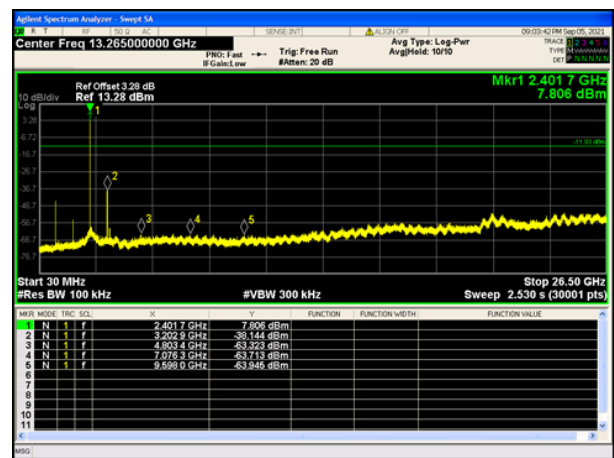
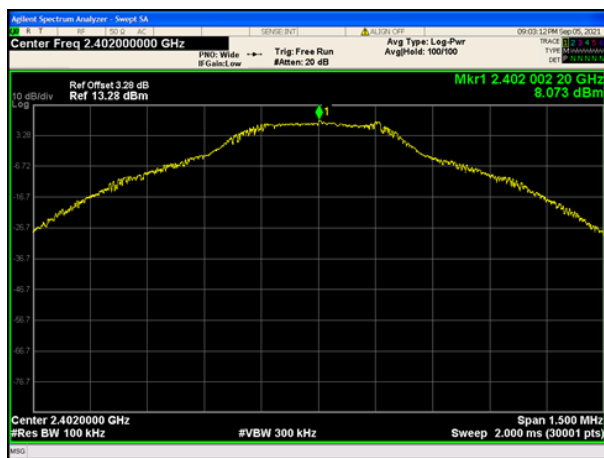


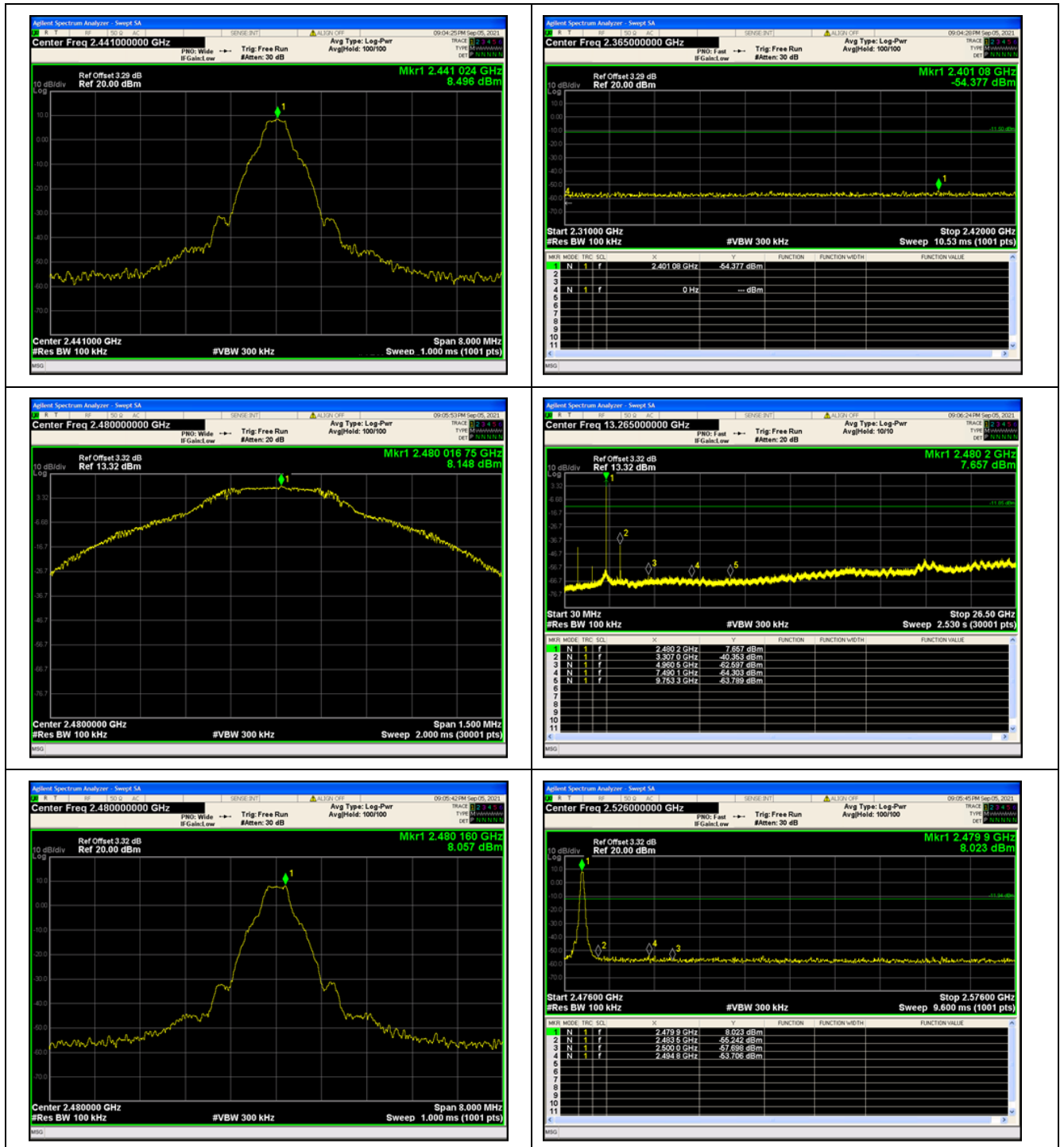


Product Name	:	Massage Chair	Power	:	120V/60Hz
Test Mode	:	Mode 1: Transmit-1Mbps(GFSK_DH5)	Test Site	:	Test Room#1
Test Date	:	2021.09.06	Test Engineer	:	Heaven

Mode	Channel	Test Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Result
Mode 1: Transmit -1Mbps(GFSK_DH5)	00	2402	-46.21	-20	Pass
	39	2441	-48.27	-20	Pass
	78	2480	-48.50	-20	Pass

1Mbps(GFSK_DH5)





Product Name	:	Massage Chair	Power	:	120V/60Hz
Test Mode	:	Mode 2: Transmit-2Mbps(Pi/4 DQPSK_DH1)	Test Site	:	Test Room#1
Test Date	:	2021.09.06	Test Engineer	:	Heaven

Mode	Channel	Test Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Result
Mode 2: Transmit -2Mbps(Pi/4 DQPSK_DH1)	00	2402	-46.57	-20	Pass
	39	2441	-48.76	-20	Pass
	78	2480	-49.13	-20	Pass

2Mbps(Pi/4 DQPSK_DH1)

