

5.1.3 Operation in the 5250-5350 MHz and 5470-5725 MHz Bands (UNII 2A, 2C) – Maximum Conducted Output Power

Operator	Anthony Smith	QA	Zach Wilson
Temperature	21.2°C, 20.1°C, 20.5°C	R.H. %	47.3%, 45.7%, 48.9%
Test Date	9/22/2021, 9/23/2021, 9/24/2021, 10/4/2021	Location	Conducted RF Bench
Requirement	FCC 15.407, RSS-247	Method	ANSI C63.10 §12.3.3.2 PM-G

Limits

24.0 dBm

Test Parameters

Frequency	5260 MHz, 5300 MHz, 5320 MHz, 5500 MHz, 5580 MHz, 5700 MHz	Setup	Conducted
Detector(s)	Average (gated)		
Notes	No duty cycle correction as measurements made over “ON” time of transmitter.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960143	Cable	Gore	EKD01D01048.0	5546519	2/3/2021	2/3/2022	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	7/28/2021	7/28/2022	Active Calibration
EE 960090	Meter - RF Power	Anritsu	ML2495A	1335006	4/22/2021	4/22/2022	Active Calibration
EE 960091	Sensor - RF Power	Anritsu	MA2491A	1249277	4/22/2021	4/22/2022	Active Calibration

EUT Parameters

Input Power	5VDC via USB	Mode	WLAN 5GHz Transmit
Frequency	UNII 2A, 2C Band	Channels	52, 60, 64, 100, 116, 140
Serial	SRW20440013SP	Data Rates	802.11a (6Mbps, 54Mbps) 802.11n (MCS0, MCS7)
Antenna Port	Top, Bottom		

Data Table – Top Antenna Port

Channel	Data Rate	Output Power (dBm)	Limit (dBm)	Margin (dB)
52	6 Mbps	6.3	24.0	17.7
52	54 Mbps	6.1	24.0	17.9
52	MCS0	6.3	24.0	17.7
52	MCS7	7.1	24.0	16.9
60	6 Mbps	7.5	24.0	16.5
60	54 Mbps	7.6	24.0	16.4
60	MCS0	7.7	24.0	16.3
60	MCS7	8.2	24.0	15.8
64	6 Mbps	7.3	24.0	16.7
64	54 Mbps	7.2	24.0	16.8
64	MCS0	7.6	24.0	16.4
64	MCS7	7.7	24.0	16.3
100	6 Mbps	8.9	24.0	15.1
100	54 Mbps	8.3	24.0	15.7
100	MCS0	8.9	24.0	15.1
100	MCS7	7.6	24.0	16.4
116	6 Mbps	12.0	24.0	12.0
116	54 Mbps	9.0	24.0	15.0
116	MCS0	12.1	24.0	11.9
116	MCS7	8.4	24.0	15.6
140	6 Mbps	8.6	24.0	15.4
140	54 Mbps	7.5	24.0	16.5
140	MCS0	8.8	24.0	15.2
140	MCS7	7.7	24.0	16.3

Data Table – Bottom Antenna Port

Channel	Data Rate	Output Power (dBm)	Limit (dBm)	Margin (dB)
52	6 Mbps	8.1	24.0	15.9
52	54 Mbps	7.9	24.0	16.1
52	MCS0	8.1	24.0	15.9
52	MCS7	8.3	24.0	15.7
60	6 Mbps	8.1	24.0	15.9
60	54 Mbps	7.9	24.0	16.1
60	MCS0	8.2	24.0	15.8
60	MCS7	8.3	24.0	15.7
64	6 Mbps	7.9	24.0	16.1
64	54 Mbps	8.0	24.0	16.0
64	MCS0	8.2	24.0	15.8
64	MCS7	8.1	24.0	15.9
100	6 Mbps	9.1	24.0	14.9
100	54 Mbps	8.5	24.0	15.5
100	MCS0	9.2	24.0	14.8
100	MCS7	7.7	24.0	16.3
116	6 Mbps	11.3	24.0	12.7
116	54 Mbps	8.4	24.0	15.6
116	MCS0	11.3	24.0	12.7
116	MCS7	7.6	24.0	16.4
140	6 Mbps	6.8	24.0	17.2
140	54 Mbps	6.7	24.0	17.3
140	MCS0	7.1	24.0	16.9
140	MCS7	6.9	24.0	17.1

5.1.4 Operation in the 5250-5350 MHz and 5470-5725 MHz Bands – Power Spectral Density

Operator	Anthony Smith	QA	Zach Wilson
Temperature	21.2°C, 20.1°C, 20.5°C	R.H. %	47.3%, 45.7%, 48.9%
Test Date	9/22/2021, 9/23/2021, 9/24/2021, 10/4/2021	Location	Conducted RF Bench
Requirement	FCC 15.407, RSS-247	Method	ANSI C63.10 §12.5 SA-2

Limits

11.0 dBm/MHz

Test Parameters

Frequency	5260 MHz, 5300 MHz, 5320 MHz, 5500 MHz, 5580 MHz, 5700 MHz	Setup	Conducted
VBW	3 MHz	RBW	1 MHz
Span	Encompass 26 dB EBW	Detector	RMS with Average Hold
Duty Cycle Correction	10LOG(1/D), where D is the duty cycle		

Instrumentation

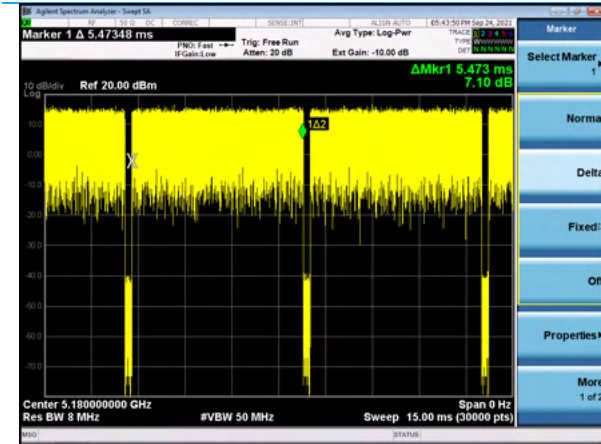
Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960143	Cable	Gore	EKD01D01048.0	5546519	2/3/2021	2/3/2022	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	7/28/2021	7/28/2022	Active Calibration
EE 960090	Meter - RF Power	Anritsu	ML2495A	1335006	4/22/2021	4/22/2022	Active Calibration
EE 960091	Sensor - RF Power	Anritsu	MA2491A	1249277	4/22/2021	4/22/2022	Active Calibration

EUT Parameters

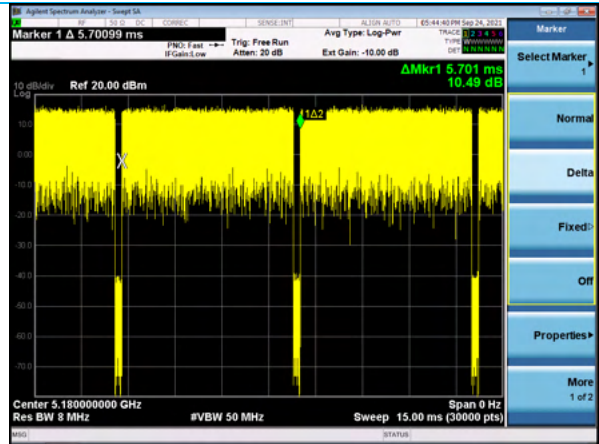
Input Power	5VDC via USB	Mode	WLAN 5GHz Transmit
Frequency	UNII 2A, 2C Band	Channels	52, 60, 64, 100, 116, 140
Serial	SRW20440013SP	Data Rates	802.11a (6Mbps, 54Mbps) 802.11n (MCS0, MCS7)
Antenna Port	Top, Bottom		

Duty Cycle Information

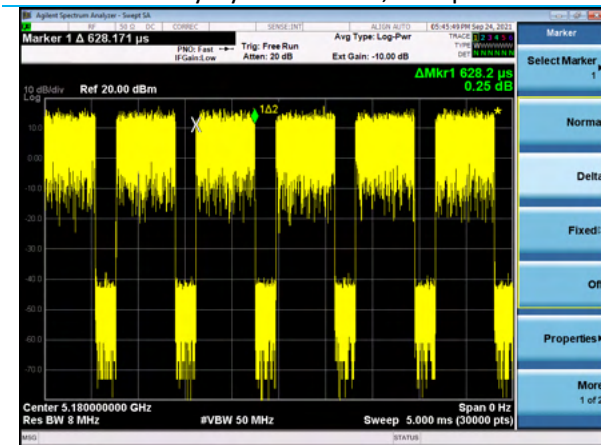
Data Rate	Duty Cycle	Correction (dB)
6Mbps	96.00%	0.177
54Mbps	73.80%	1.319
MCS0	95.68%	0.192
MCS7	68.36%	1.652



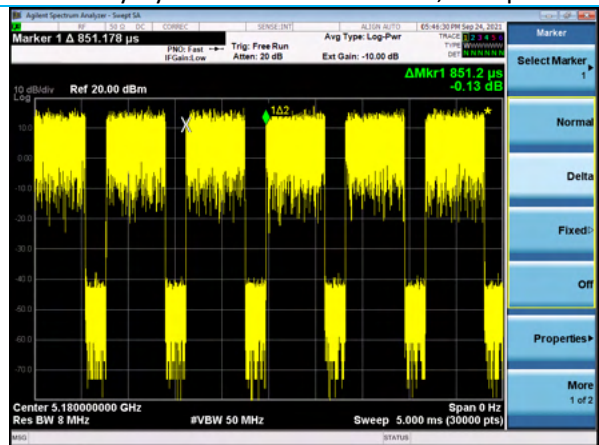
Duty Cycle On Time, 6Mbps



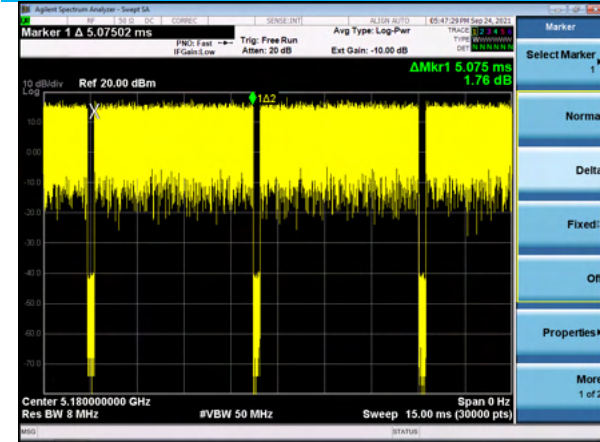
Duty Cycle Observation Period, 6Mbps



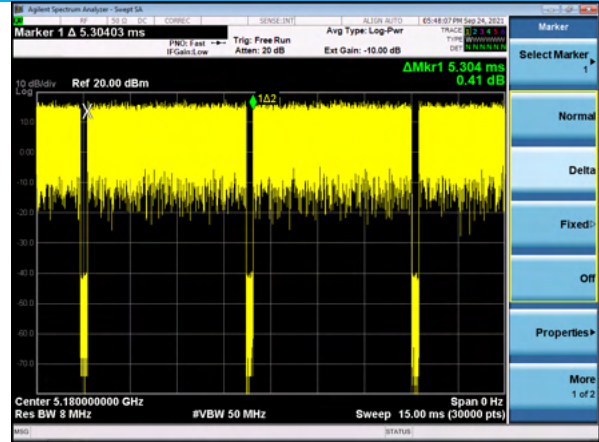
Duty Cycle On Time, 54Mbps



Duty Cycle Observation Period, 54Mbps



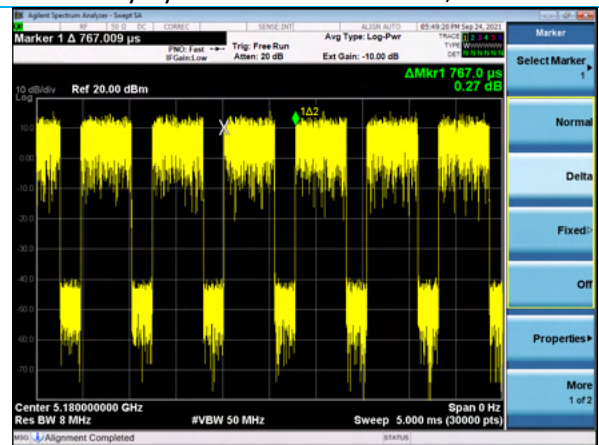
Duty Cycle On Time, MCS0



Duty Cycle Observation Period, MCS0



Duty Cycle On Time, MCS7



Duty Cycle Observation Period, MCS7

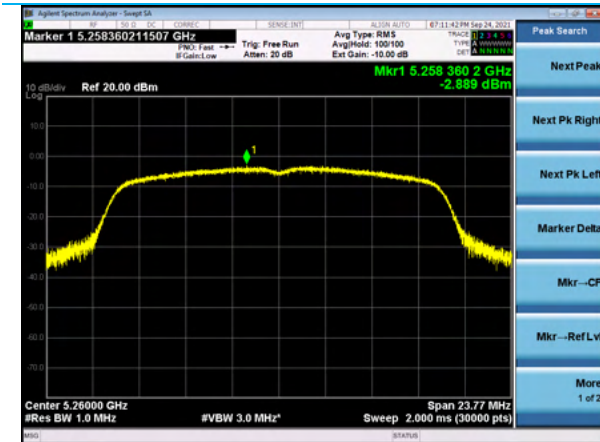
Data Table – Top Antenna Port

Channel	Data Rate	Peak PSD (dBm/MHz)	Correction Factor (dB)	Corrected Peak PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
52	6 Mbps	-2.9	0.2	-2.7	11.0	13.7
52	54 Mbps	-3.9	1.3	-2.6	11.0	13.6
52	MCS0	-3.2	0.2	-3.0	11.0	14.0
52	MCS7	-2.9	1.7	-1.3	11.0	12.3
60	6 Mbps	-1.6	0.2	-1.4	11.0	12.4
60	54 Mbps	-2.5	1.3	-1.2	11.0	12.2
60	MCS0	-1.5	0.2	-1.3	11.0	12.3
60	MCS7	-2.3	1.7	-0.6	11.0	11.6
64	6 Mbps	-1.8	0.2	-1.7	11.0	12.7
64	54 Mbps	-2.6	1.3	-1.3	11.0	12.3
64	MCS0	-1.9	0.2	-1.7	11.0	12.7
64	MCS7	-3.1	1.7	-1.5	11.0	12.5
100	6 Mbps	0.2	0.2	0.4	11.0	10.6
100	54 Mbps	-1.8	1.3	-0.4	11.0	11.4
100	MCS0	-0.3	0.2	-0.1	11.0	11.1
100	MCS7	-3.0	1.7	-1.4	11.0	12.4
116	6 Mbps	2.8	0.2	3.0	11.0	8.0
116	54 Mbps	-1.3	1.3	0.0	11.0	11.0
116	MCS0	3.0	0.2	3.2	11.0	7.8
116	MCS7	-2.4	1.7	-0.8	11.0	11.8
140	6 Mbps	-0.6	0.2	-0.4	11.0	11.4
140	54 Mbps	-2.5	1.3	-1.2	11.0	12.2
140	MCS0	-0.5	0.2	-0.3	11.0	11.3
140	MCS7	-2.3	1.7	-0.7	11.0	11.7

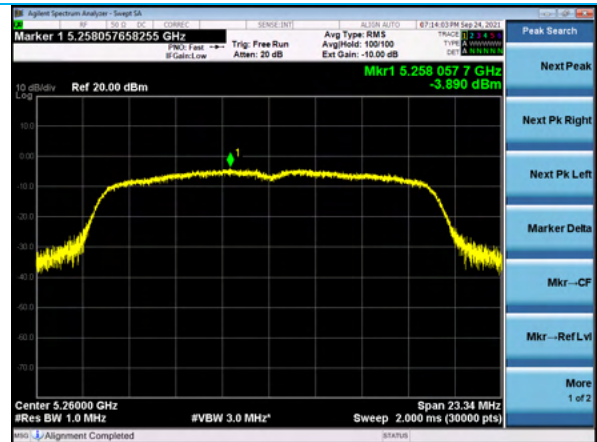
Data Table – Bottom Antenna Port

Channel	Data Rate	Peak PSD (dBm/MHz)	Correction Factor (dB)	Corrected Peak PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
52	6 Mbps	-1.2	0.2	-1.1	11.0	12.1
52	54 Mbps	-2.1	1.3	-0.8	11.0	11.8
52	MCS0	-1.4	0.2	-1.2	11.0	12.2
52	MCS7	-2.0	1.7	-0.4	11.0	11.4
60	6 Mbps	-1.1	0.2	-1.0	11.0	12.0
60	54 Mbps	-1.8	1.3	-0.5	11.0	11.5
60	MCS0	-1.0	0.2	-0.8	11.0	11.8
60	MCS7	-1.7	1.7	-0.1	11.0	11.1
64	6 Mbps	-1.1	0.2	-1.0	11.0	12.0
64	54 Mbps	-2.2	1.3	-0.9	11.0	11.9
64	MCS0	-0.6	0.2	-0.4	11.0	11.4
64	MCS7	-2.8	1.7	-1.1	11.0	12.1
100	6 Mbps	0.0	0.2	0.2	11.0	10.8
100	54 Mbps	-1.7	1.3	-0.3	11.0	11.3
100	MCS0	-0.1	0.2	0.1	11.0	10.9
100	MCS7	-2.5	1.7	-0.9	11.0	11.9
116	6 Mbps	2.0	0.2	2.1	11.0	8.9
116	54 Mbps	-1.9	1.3	-0.6	11.0	11.6
116	MCS0	1.8	0.2	2.0	11.0	9.0
116	MCS7	-2.8	1.7	-1.1	11.0	12.1
140	6 Mbps	-2.5	0.2	-2.4	11.0	13.4
140	54 Mbps	-3.5	1.3	-2.1	11.0	13.1
140	MCS0	-2.3	0.2	-2.1	11.0	13.1
140	MCS7	-3.4	1.7	-1.8	11.0	12.8

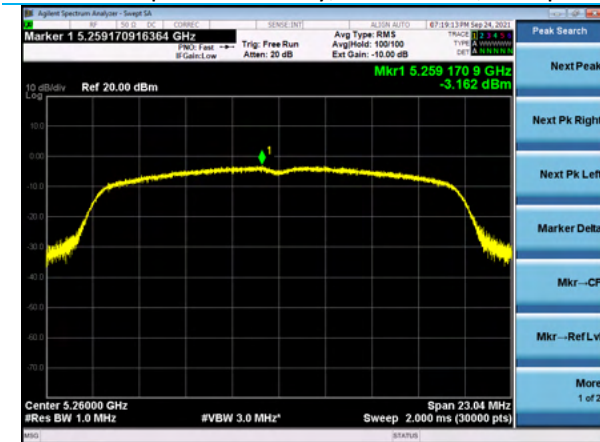
Plots – Top Antenna Port



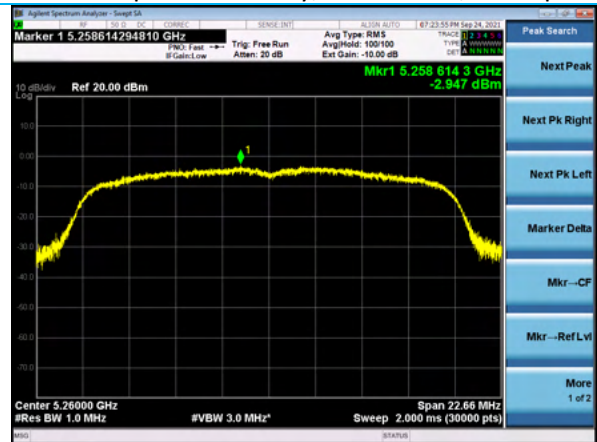
Power Spectral Density, Channel 52, 6Mbps



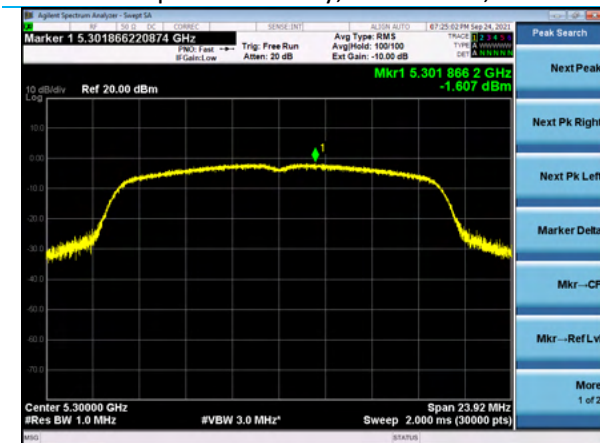
Power Spectral Density, Channel 52, 54Mbps



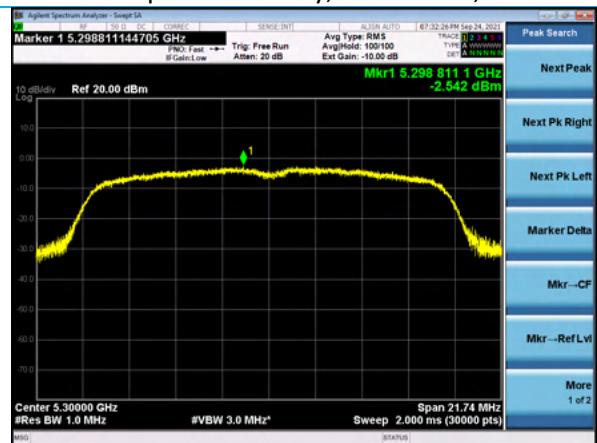
Power Spectral Density, Channel 52, MCS0



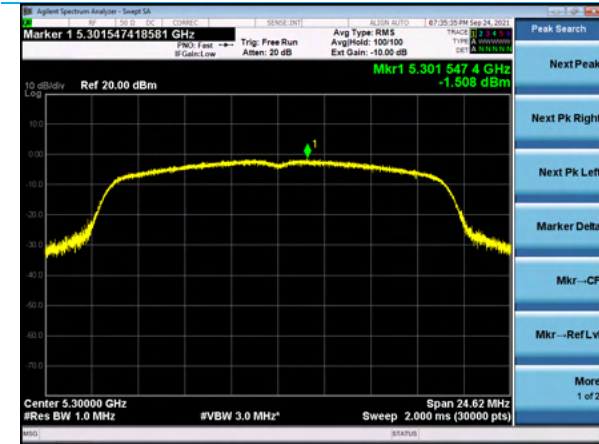
Power Spectral Density, Channel 52, MCS7



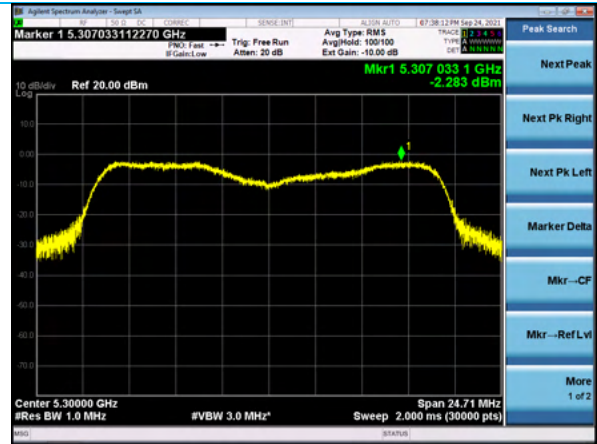
Power Spectral Density, Channel 60, 6Mbps



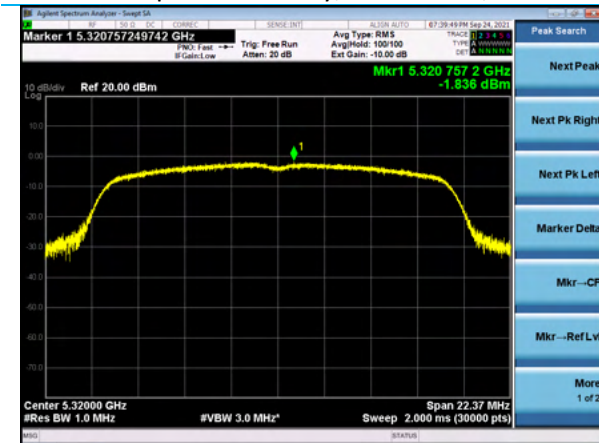
Power Spectral Density, Channel 60, 54Mbps



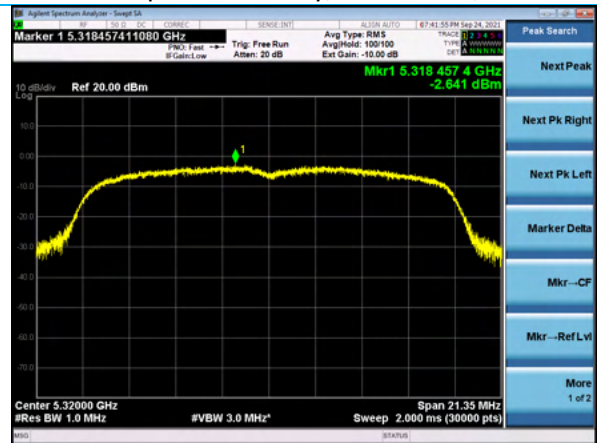
Power Spectral Density, Channel 60, MCS0



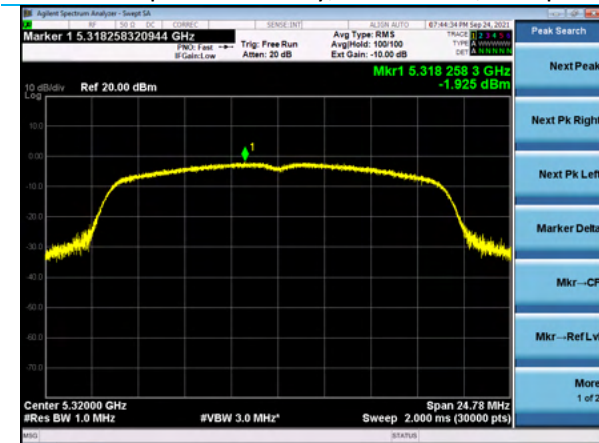
Power Spectral Density, Channel 60, MCS7



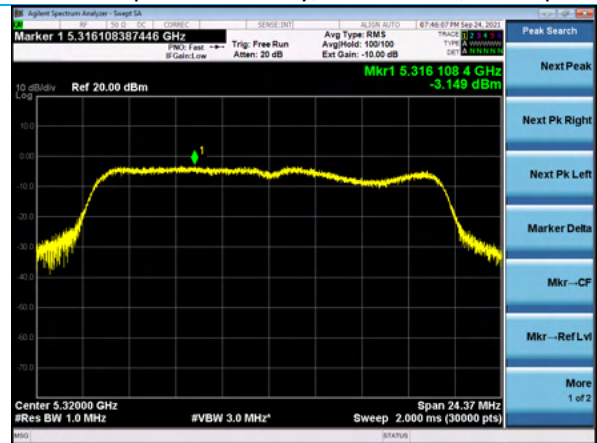
Power Spectral Density, Channel 64, 6Mbps



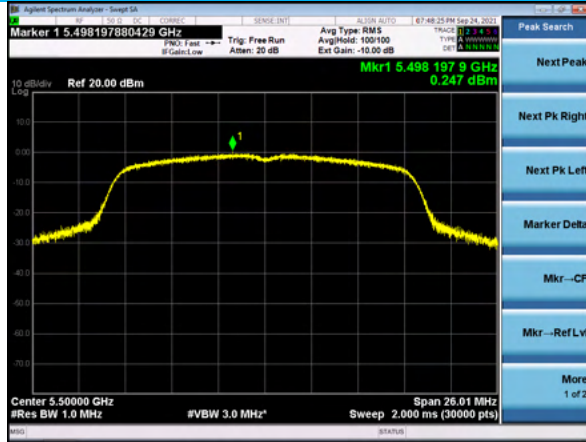
Power Spectral Density, Channel 64, 54Mbps



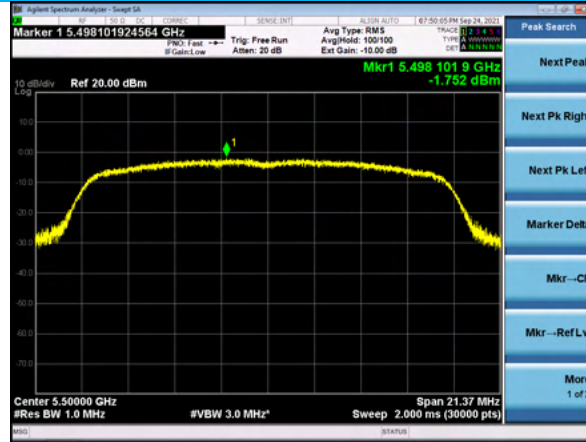
Power Spectral Density, Channel 64, MCS0



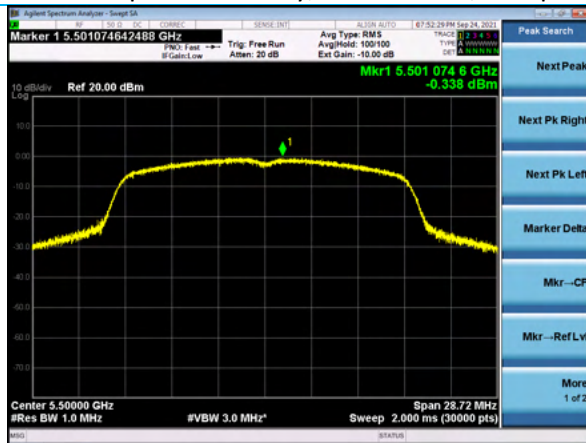
Power Spectral Density, Channel 64, MCS7



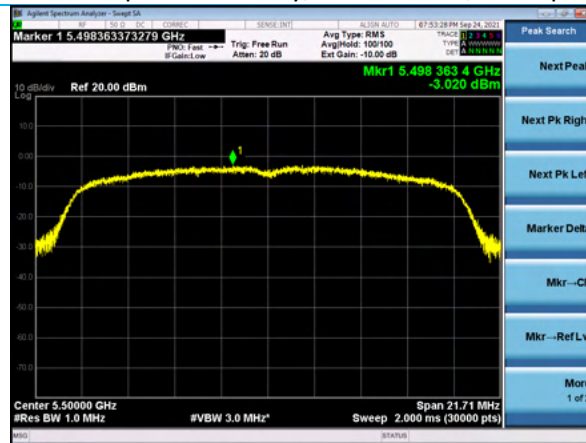
Power Spectral Density, Channel 100, 6Mbps



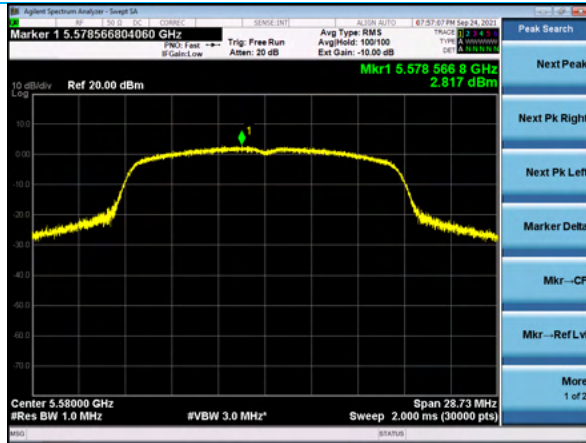
Power Spectral Density, Channel 100, 54Mbps



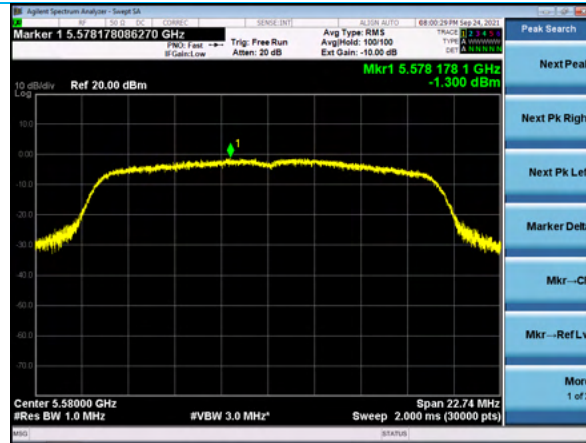
Power Spectral Density, Channel 100, MCS0



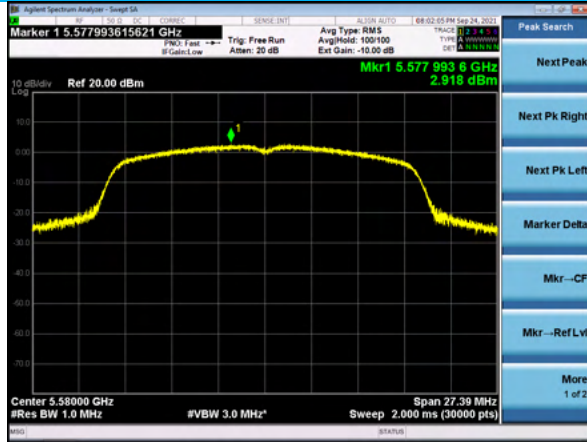
Power Spectral Density, Channel 100, MCS7



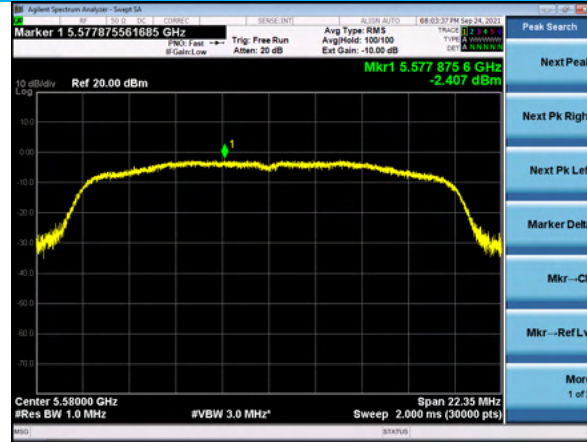
Power Spectral Density, Channel 116, 6Mbps



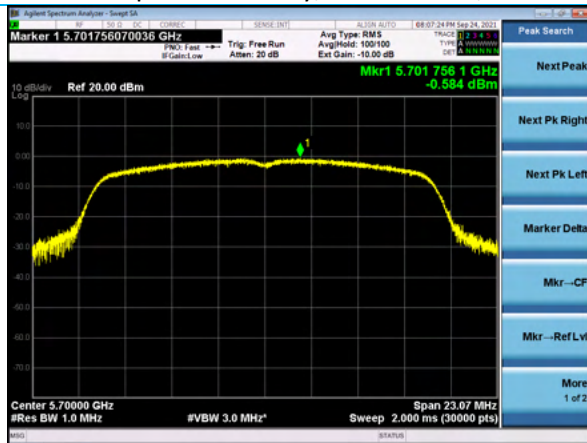
Power Spectral Density, Channel 116, 54Mbps



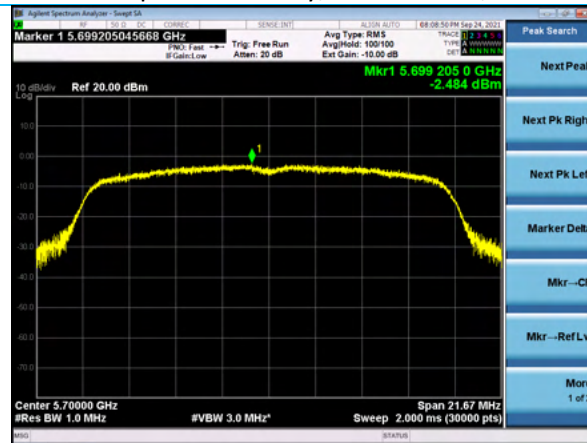
Power Spectral Density, Channel 116, MCS0



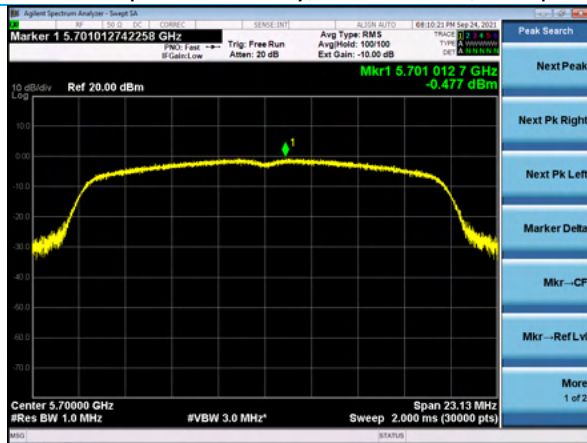
Power Spectral Density, Channel 116, MCS7



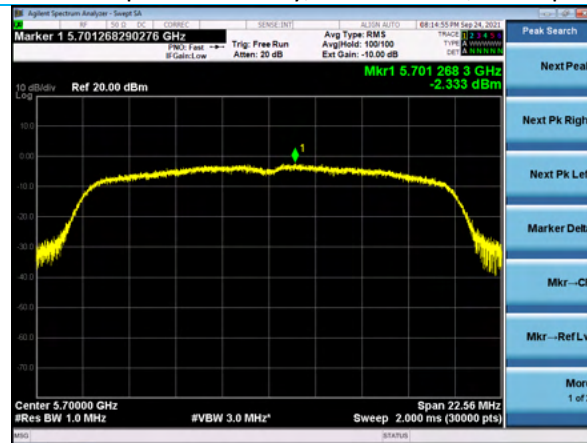
Power Spectral Density, Channel 140, 6Mbps



Power Spectral Density, Channel 140, 54Mbps

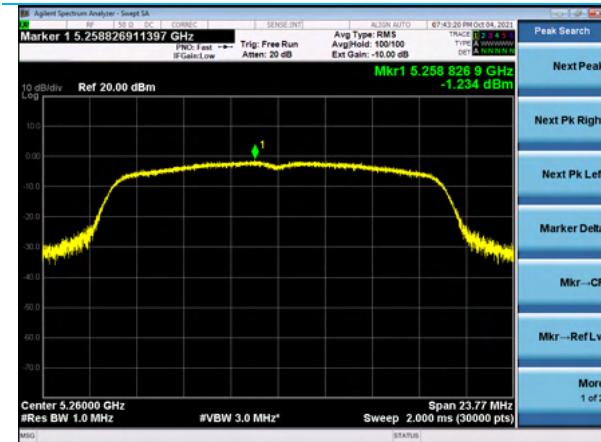


Power Spectral Density, Channel 140, MCS0

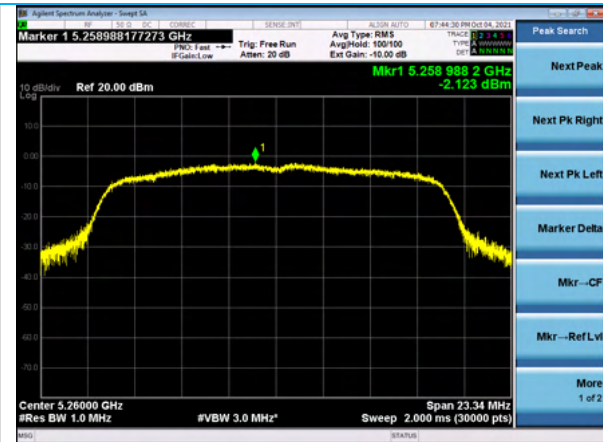


Power Spectral Density, Channel 140, MCS7

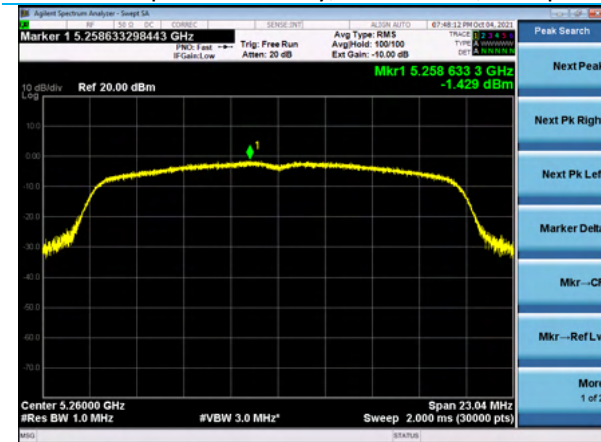
Plots – Bottom Antenna Port



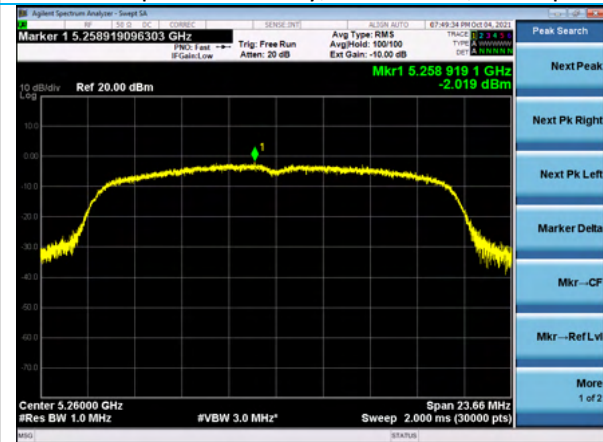
Power Spectral Density, Channel 52, 6Mbps



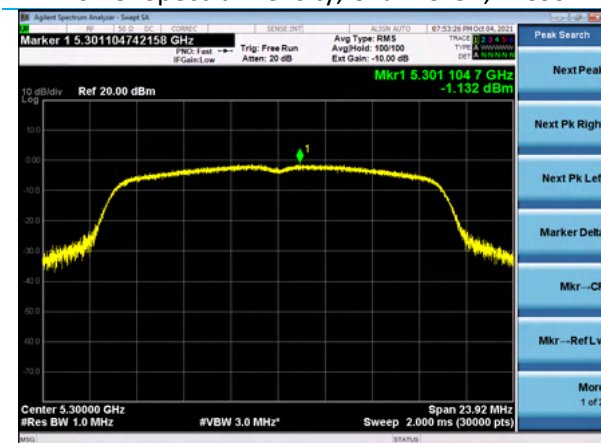
Power Spectral Density, Channel 52, 54Mbps



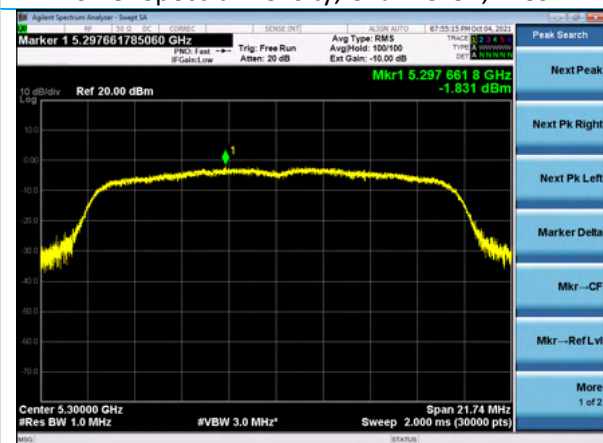
Power Spectral Density, Channel 52, MCS0



Power Spectral Density, Channel 52, MCS7

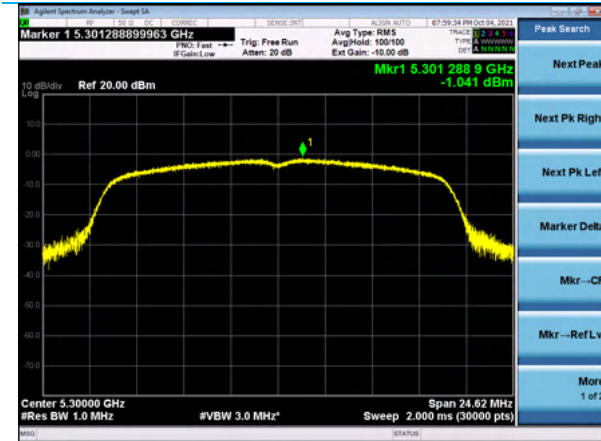


Power Spectral Density, Channel 60, 6Mbps

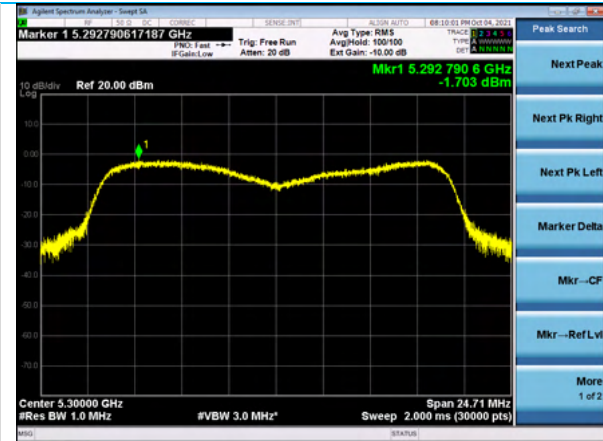


Power Spectral Density, Channel 60, 54Mbps

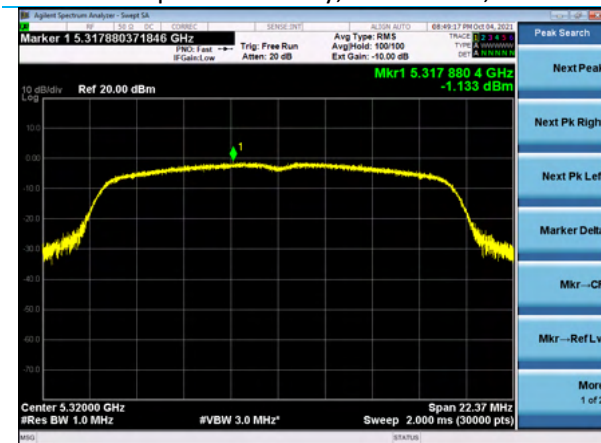
Company: GE Healthcare	Page 35 of 48	Name: Mobile Patient Monitor
Report: TR3514 B		Model: Portrait HUB01
Quote: NBO-09-2021-004136		Serial: SRW20440005SP



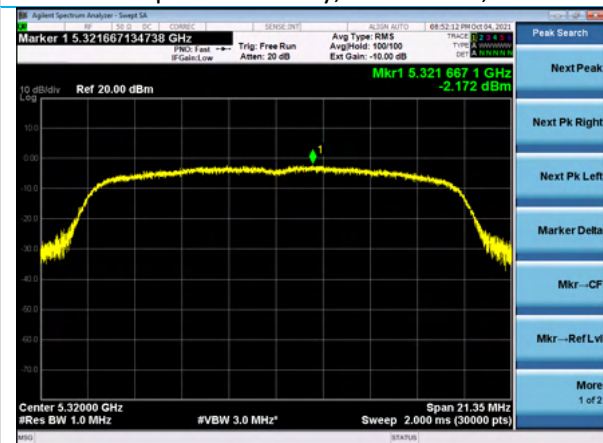
Power Spectral Density, Channel 60, MCS0



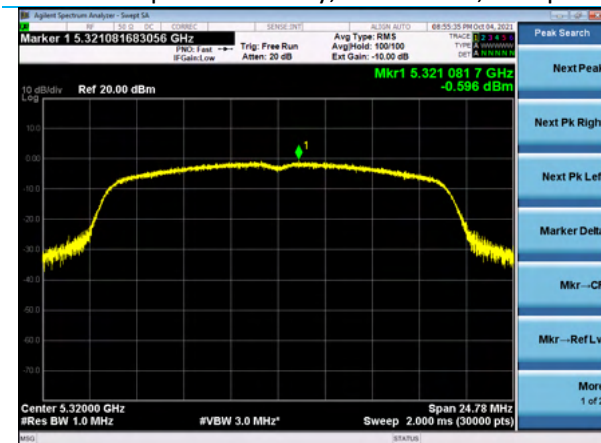
Power Spectral Density, Channel 60, MCS7



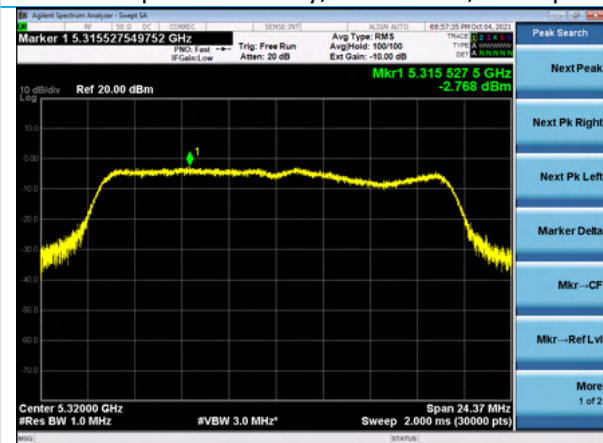
Power Spectral Density, Channel 64, 6Mbps



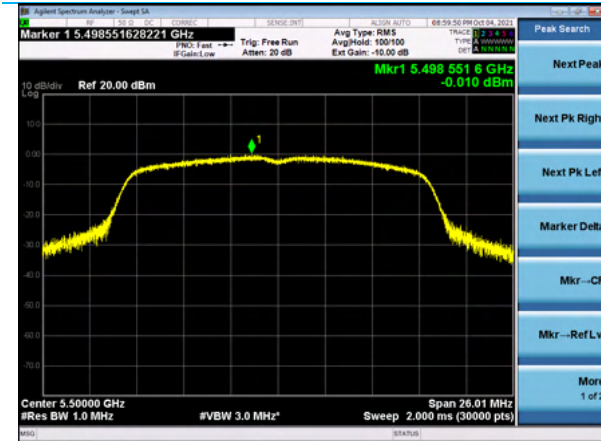
Power Spectral Density, Channel 64, 54Mbps



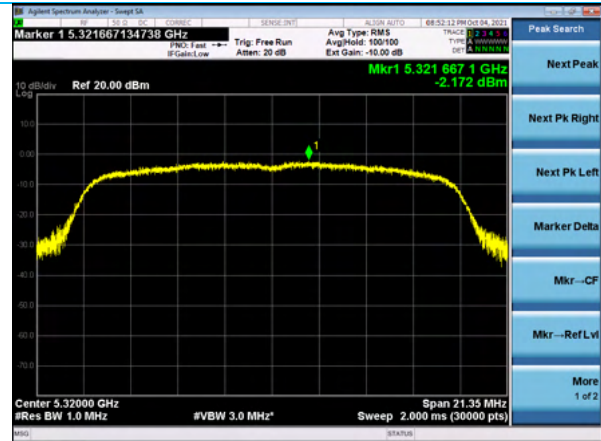
Power Spectral Density, Channel 64, MCS0



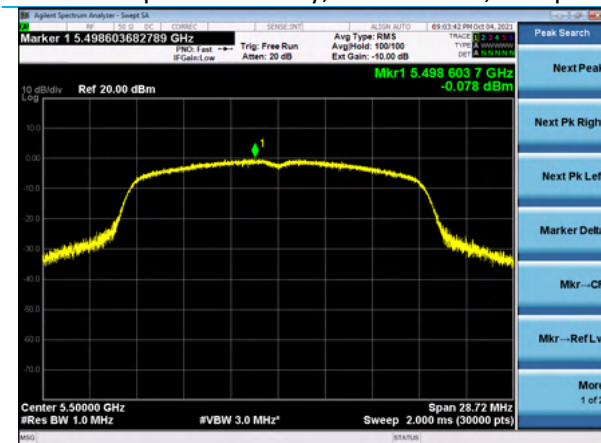
Power Spectral Density, Channel 64, MCS7



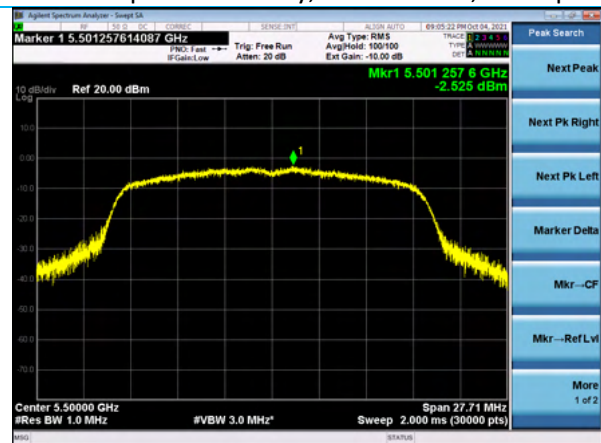
Power Spectral Density, Channel 100, 6Mbps



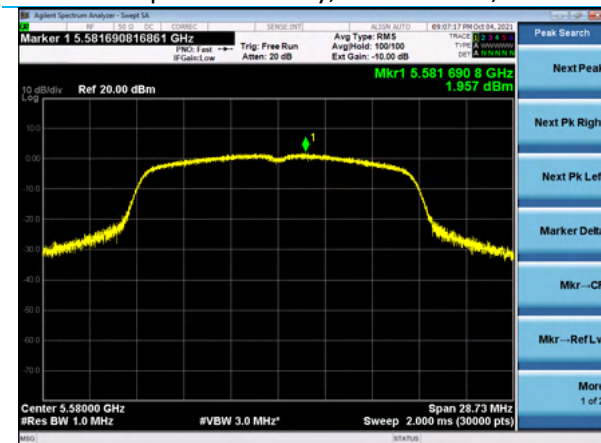
Power Spectral Density, Channel 100, 54Mbps



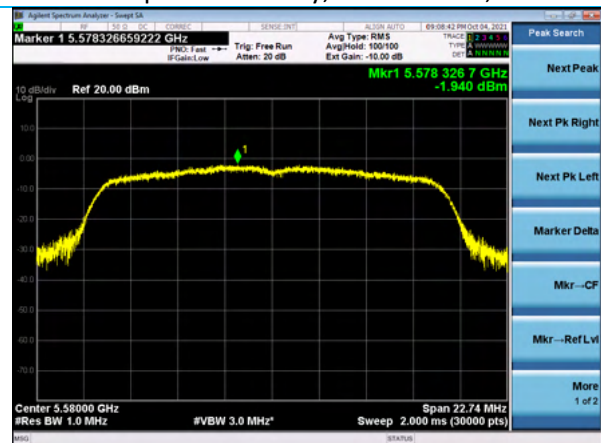
Power Spectral Density, Channel 100, MCS0



Power Spectral Density, Channel 100, MCS7

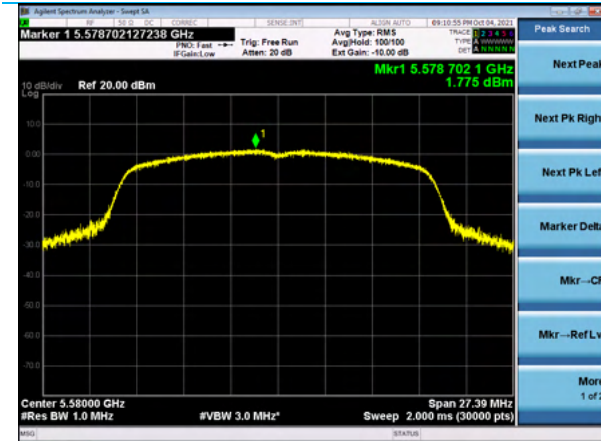


Power Spectral Density, Channel 116, 6Mbps

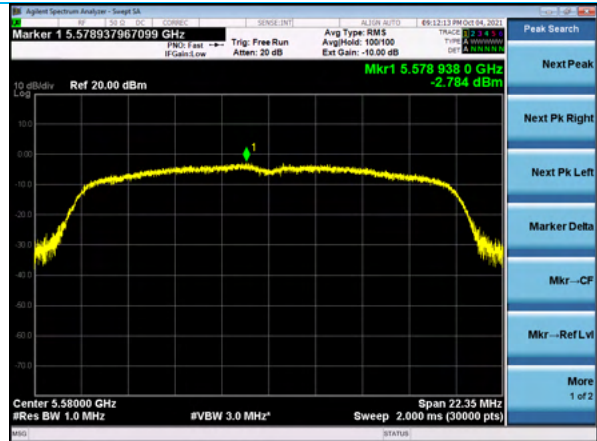


Power Spectral Density, Channel 116, 54Mbps

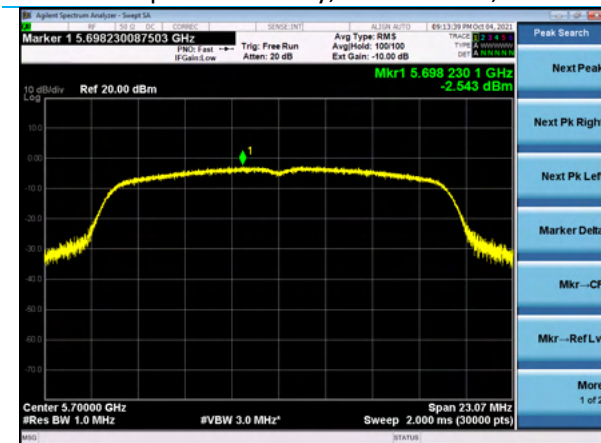
Company: GE Healthcare	Page 37 of 48	Name: Mobile Patient Monitor
Report: TR3514 B		Model: Portrait HUB01
Quote: NBO-09-2021-004136		Serial: SRW20440005SP



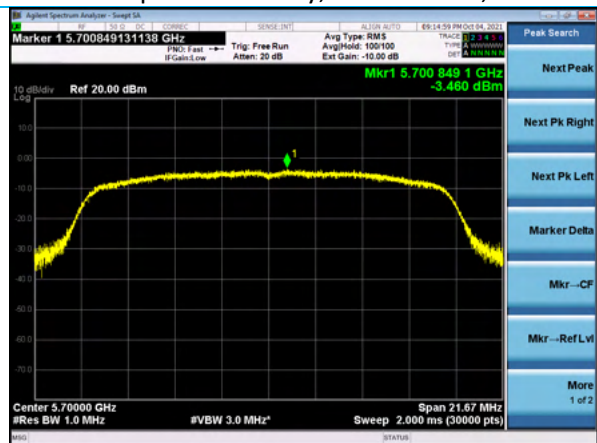
Power Spectral Density, Channel 116, MCS0



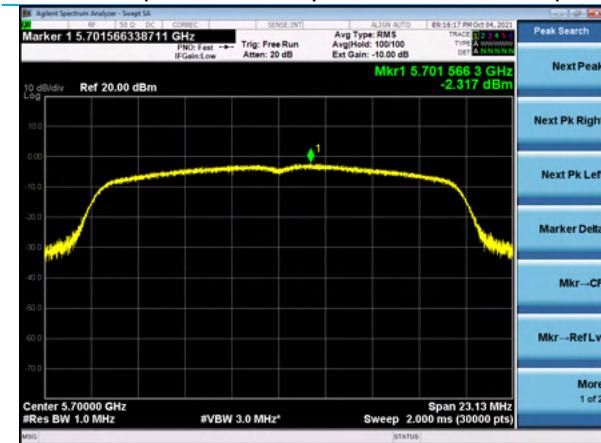
Power Spectral Density, Channel 116, MCS7



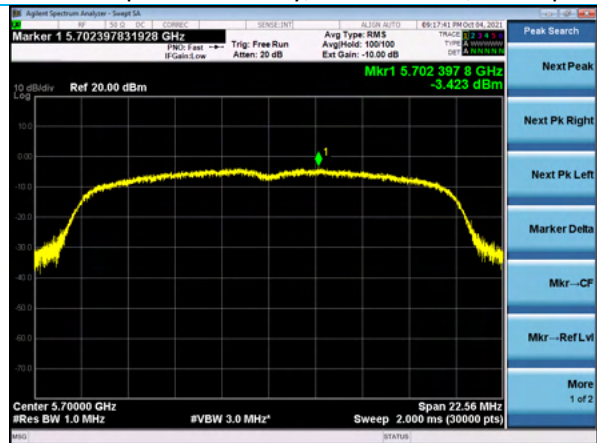
Power Spectral Density, Channel 140, 6Mbps



Power Spectral Density, Channel 140, 54Mbps



Power Spectral Density, Channel 140, MCS0



Power Spectral Density, Channel 140, MCS7

5.2 Radiated Emissions

<p>Description of Measurement</p>	<p>The frequency spectrum is investigated for intentional and / or unintentional signals emanating from the EUT by use of a standardized test site and measurement antenna.</p> <p>The antenna, cable, pre-amp, and other necessary measurement system correction factors are loaded onto the EMI receiver / spectrum analyzer when the measurements are performed allowing the data to be gathered and reported as corrected values.</p> <p>The maximum emissions from the EUT are determined by turn-table azimuth rotation (360°) and scanning of the measurement antenna. Maximized levels are noted at degree values of azimuth, measurement antenna height, and measurement antenna polarity.</p>
<p>Example Calculations</p>	<p>Measurement (dBμV) + Cable factor (dB) + Other (dB) + Antenna Factor (dB/m) = Corrected Reading (dBμV/m)</p> <p>Margin (dB) = Limit (dBμV/m) - Corrected Reading (dBμV/m)</p> <p>Example at 4000 MHz: Reading = 40 dBμV + 3.4 dB + 0.9 dB + 6.5 dB/m = 50.8 dBμV/m Average Limit = 20 log (500) = 54 dBμV/m Margin = 54 dBμV/m - 50.8 dBμV/m = 3.2 dB</p>

Block Diagram



5.2.1 Operation in the 5250-5350 MHz Band (UNII 2A) - Radiated Emissions

Operator	Anthony Smith	QA	Zach Wilson
Temperature	20.7°C, 21.9°C	R.H. %	50.5%, 50%
Test Date	9/20/2021, 9/21/2021	Location	Chamber 5
Requirement	FCC 15.407, RSS-247, FCC 15.209	Method	ANSI C63.10

Limits

All emissions outside of the 5150-5350 MHz band shall not exceed an e.i.r.p of -27 dBm/MHz.

Restricted Bands: 68.2 dBµV/m Peak, 54.0 dBµV/m Average

Test Parameters

Frequency	5350-5460 MHz, 5460-5470 MHz, 8-40 GHz	Distance	3m
Detector(s)	Peak, Average for restricted bands	Table height	150cm
RBW	1 MHz	VBW	2 kHz for average 3 MHz for peak 30 kHz for emission identification
Notes	Top antenna declared worst case		
Example Calculations	-27.0 dBm/MHz + 95.2 (free space conversion) = 68.2 dBµV/m @ 3m		
Notes	No transmitter emissions found in the 8-40 GHz range. Low channel for each band shown.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960007	Antenna - Double Ridge Horn	EMCO	3115	9311-4138	8/23/2021	8/23/2022	Active Calibration
AA 960161	Filter - Highpass 5 GHz	K&L Microwave	11SH10-8000	2	4/21/2021	4/21/2022	Active Calibration
AA 960162	Cable	MegaPhase	EM2-S1S1-120	51503501 001	2/3/2021	2/3/2022	Active Verification
AA 960171	Cable	A.H. Systems, Inc.	SAC-26G-6	386	2/3/2021	2/3/2022	Active Verification
AA 960174	Antenna - Small Horn	ETS Lindgren	3116C-PA	00206880	9/1/2021	9/1/2022	Active Calibration
AA 960209	Antenna - Low Noise Amplifier	Mini-Circuits	ZVA-213X-S+	037101808	8/23/2021	8/23/2022	Active Calibration
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	7/28/2021	7/28/2022	Active Calibration
EE 960198	Meter - Hygro-Thermometer	Control Company	90080-03	180045460	5/14/2021	5/14/2022	Active Calibration
EE 960203	Analyzer - EMI Receiver	Keysight	N9038A	MY56400072	4/20/2021	4/20/2022	Active Calibration

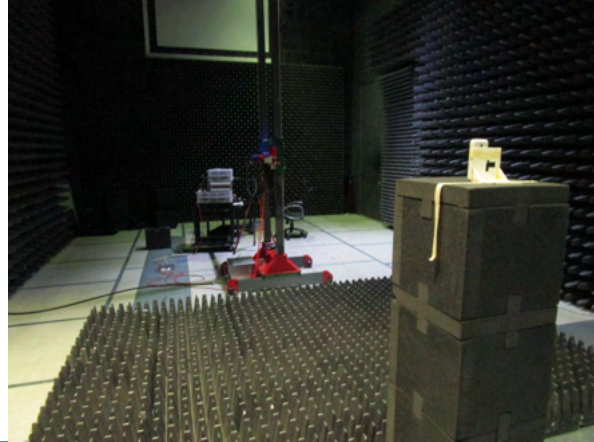
EUT Parameters

Input Power	Battery	Mode	WLAN Continuous TX
EUT	Module In Host	EUT	Top Antenna Only, EUT Vertical Orientation Only
Channels	52, 60, 64	Data Rates	802.11a 6Mbps for Band Edge 802.11n MCS0 for Harmonics

Setup Photos



EUT Setup



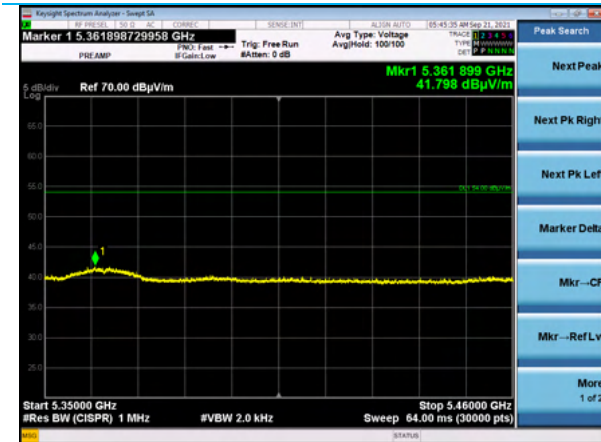
Chamber Setup

Data Tables

Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Average Reading (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Channel	Data Rate (Mbps)
5361.9	Vertical	100	263	41.8	54.0	12.2	52	MCS0
5372.8	Vertical	100	263	42.7	54.0	11.3	60	MCS0
5350.8	Vertical	100	263	43.7	54.0	10.3	64	MCS0

Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Peak Reading (dBμV/M)	Peak Limit (dBμV/m)	Peak Margin (dB)	Channel	Data Rate (Mbps)
5372.6	Vertical	100	263	50.9	68.2	17.3	52	MCS0
5464.6	Vertical	100	263	50.3	68.2	17.9	52	MCS0
5353.0	Vertical	100	263	60.2	68.2	8.0	60	MCS0
5466.6	Vertical	100	263	50.5	68.2	17.7	60	MCS0
5366.0	Vertical	100	263	58.8	68.2	9.4	64	MCS0
5468.2	Vertical	100	263	51.4	68.2	16.9	64	MCS0

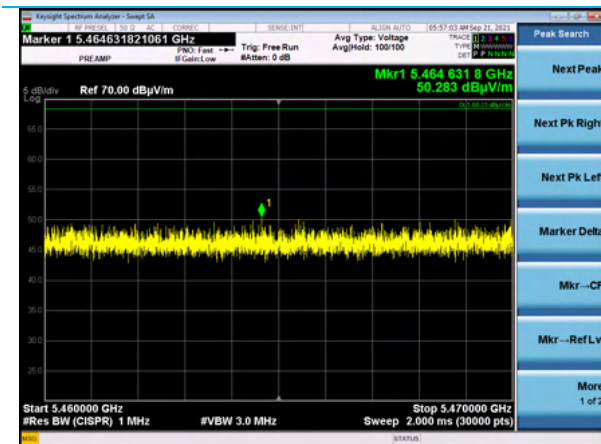
Plots



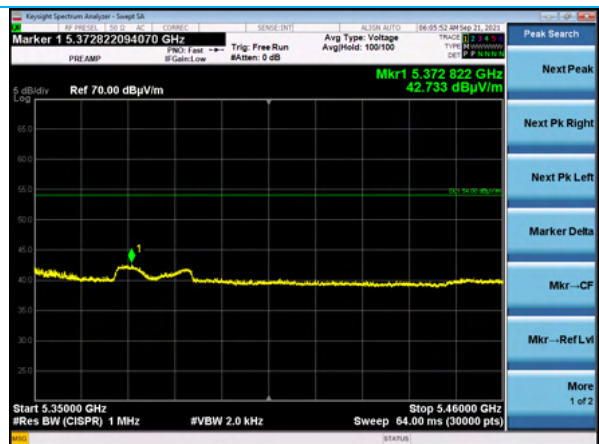
5350-5460 MHz, Channel 52, MCS0, Average Vertical Antenna



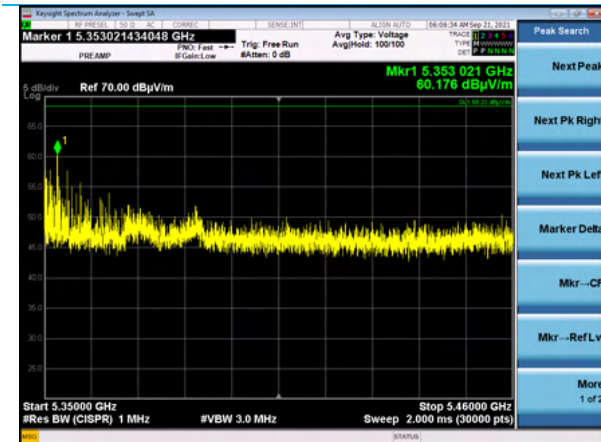
5350-5460 MHz, Channel 52, MCS0, Peak Vertical Antenna



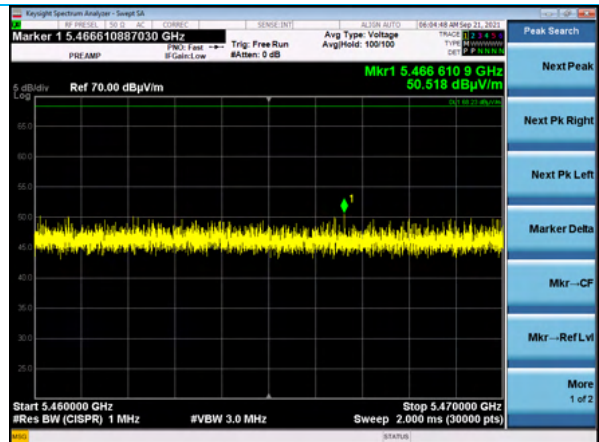
5460-5470 MHz, Channel 52, MCS0, Peak Vertical Antenna



5350-5460 MHz, Channel 60, MCS0, Average Vertical Antenna

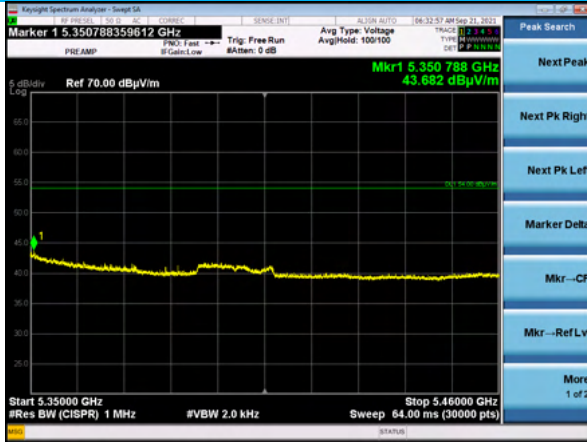


5350-5460 MHz, Channel 60, MCS0, Peak Vertical Antenna

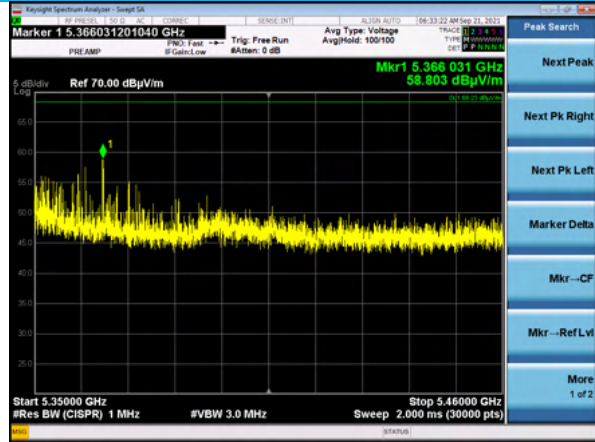


5460-5470 MHz, Channel 60, MCS0, Peak Vertical Antenna

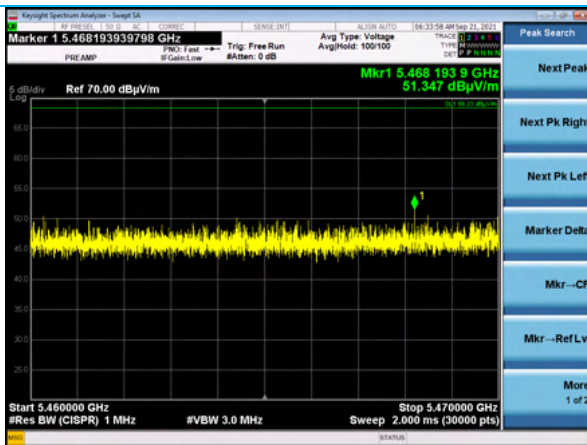
Company: GE Healthcare	Page 42 of 48	Name: Mobile Patient Monitor
Report: TR3514 B		Model: Portrait HUB01
Quote: NBO-09-2021-004136		Serial: SRW20440005SP



5350-5460 MHz, Channel 64, MCS0, Average Vertical Antenna



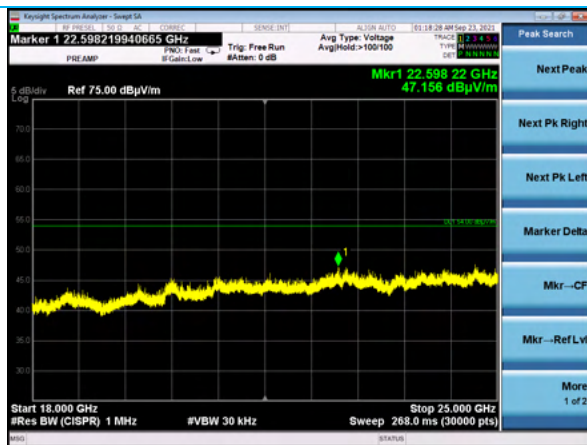
5350-5460 MHz, Channel 64, MCS0, Peak Vertical Antenna



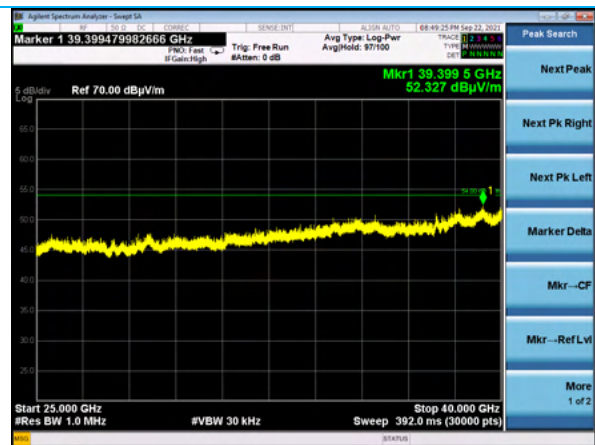
5460-5470 MHz, Channel 64, MCS0, Peak Vertical Antenna



8-18 GHz, Channel 52, 6Mbps, Reduced VBW Vertical Antenna



18-25 GHz, Channel 52, 6Mbps, Reduced VBW Vertical Antenna



25-40 GHz, Channel 52, 6Mbps, Reduced VBW Vertical Antenna

5.2.2 Operation in the 5470-5725 MHz Band (UNII 2C) - Radiated Emissions

Operator	Anthony Smith	QA	Zach Wilson
Temperature	20.7°C, 21.9°C	R.H. %	50.5%, 50%
Test Date	9/20/2021, 9/21/2021	Location	Chamber 5
Requirement	FCC 15.407, RSS-247, FCC 15.209	Method	ANSI C63.10

Limits

All emissions outside of the 5150-5350 MHz band shall not exceed an e.i.r.p of -27 dBm/MHz.

Restricted Bands: 68.2 dBµV/m Peak, 54.0 dBµV/m Average

Test Parameters

Frequency	5350-5460 MHz, 5460-5470 MHz 5600-5650 MHz, 5725-5800 MHz 8-40 GHz	Distance	3m
Detector(s)	Peak, Average for restricted bands	Table height	150cm
RBW	1 MHz	VBW	2 kHz for average 3 MHz for peak 30 kHz for emission identification
Notes	Top antenna declared worst case		
Example Calculations	-27.0 dBm/MHz + 95.2 (free space conversion) = 68.2 dBµV/m @ 3m		
Notes	No transmitter emissions found in the 8-40 GHz range. Low channel for each band shown.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960007	Antenna - Double Ridge Horn	EMCO	3115	9311-4138	8/23/2021	8/23/2022	Active Calibration
AA 960161	Filter - Highpass 5 GHz	K&L Microwave	11SH10-8000	2	4/21/2021	4/21/2022	Active Calibration
AA 960162	Cable	MegaPhase	EM2-S1S1-120	51503501 001	2/3/2021	2/3/2022	Active Verification
AA 960171	Cable	A.H. Systems, Inc.	SAC-26G-6	386	2/3/2021	2/3/2022	Active Verification
AA 960174	Antenna - Small Horn	ETS Lindgren	3116C-PA	00206880	9/1/2021	9/1/2022	Active Calibration
AA 960209	Antenna - Low Noise Amplifier	Mini-Circuits	ZVA-213X-S+	037101808	8/23/2021	8/23/2022	Active Calibration
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	7/28/2021	7/28/2022	Active Calibration
EE 960198	Meter - Hygro-Thermometer	Control Company	90080-03	180045460	5/14/2021	5/14/2022	Active Calibration
EE 960203	Analyzer - EMI Receiver	Keysight	N9038A	MY56400072	4/20/2021	4/20/2022	Active Calibration

Company: GE Healthcare	Page 44 of 48	Name: Mobile Patient Monitor
Report: TR3514 B		Model: Portrait HUB01
Quote: NBO-09-2021-004136		Serial: SRW20440005SP

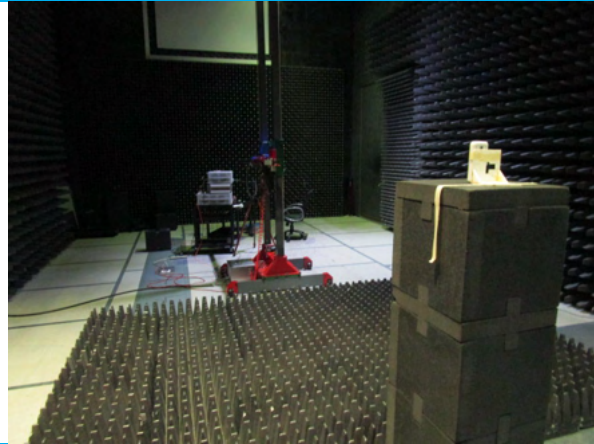
EUT Parameters

Input Power	Battery	Mode	WLAN Continuous TX
EUT	Module In Host	EUT	Top Antenna Only, EUT Vertical Orientation Only
Channels	100, 116, 140	Data Rates	802.11a 6Mbps for Band Edge 802.11n MCS0 for Harmonics

Setup Photos



EUT Setup



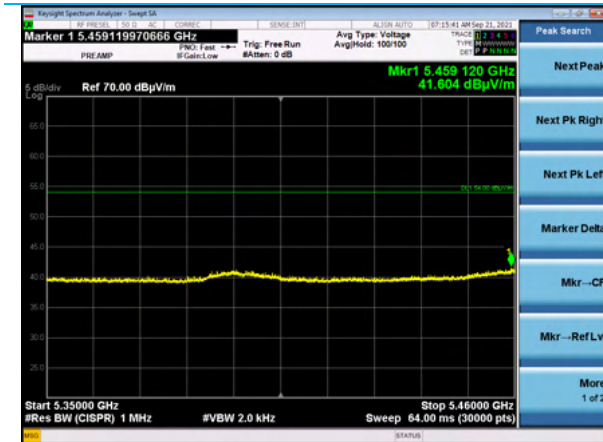
Chamber Setup

Data Tables

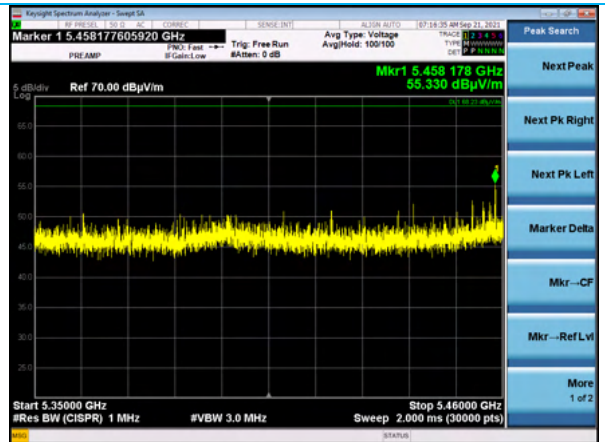
Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Average Reading (dB μ V/m)	Average Limit (dB μ V/m)	Average Margin (dB)	Channel	Data Rate (Mbps)
5459.1	Vertical	100	263	41.6	54.0	12.4	100	MCS0

Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Peak Reading (dB μ V/M)	Peak Limit (dB μ V/m)	Peak Margin (dB)	Channel	Data Rate (Mbps)
5459.1	Vertical	100	263	55.3	68.2	12.9	100	MCS0
5458.2	Vertical	100	263	59.6	68.2	8.6	100	MCS0
5469.9	Vertical	100	263	51.4	68.2	16.8	100	MCS0
5605.6	Vertical	100	263	65.6	68.2	2.6	116	MCS0
5602.0	Vertical	100	263	59.3	68.2	8.9	140	MCS0

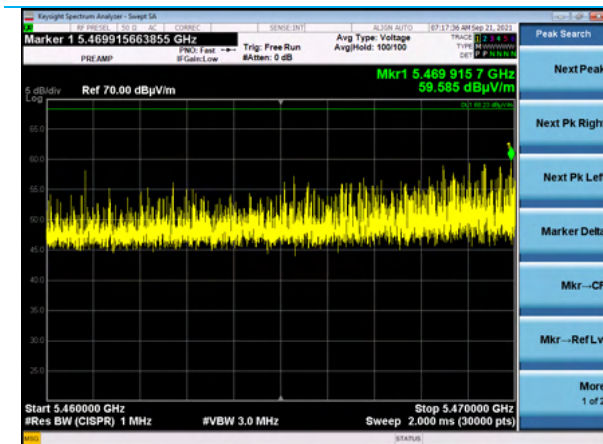
Plots



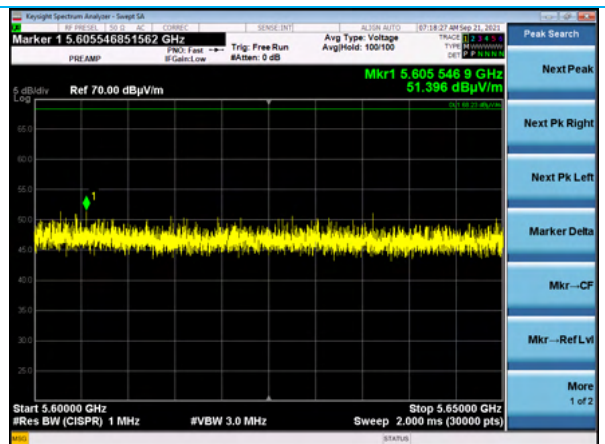
5350-5460 MHz, Channel 100, MCS0, Average Vertical Antenna



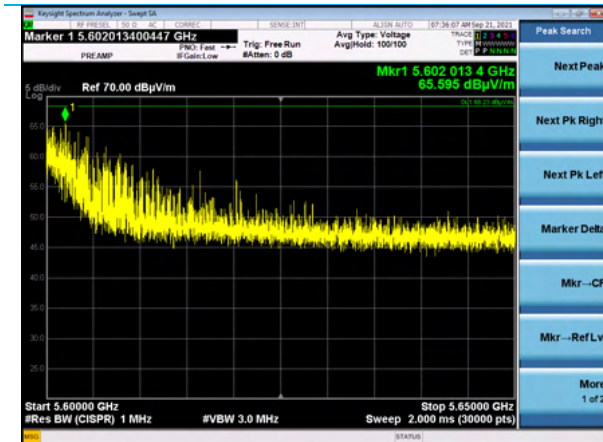
5350-5460 MHz, Channel 100, MCS0, Peak Vertical Antenna



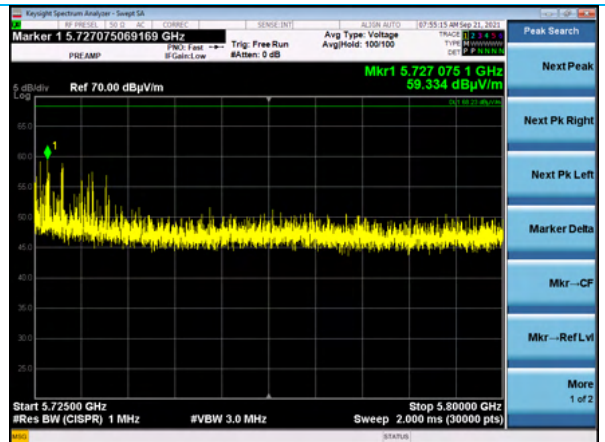
5460-5470 MHz, Channel 100, MCS0, Peak Vertical Antenna



5600-5650 MHz, Channel 100, MCS0, Peak Vertical Antenna

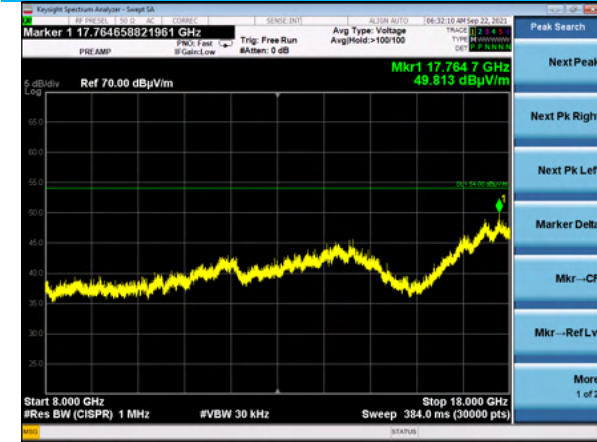


5600-5650 MHz, Channel 116, MCS0, Peak Vertical Antenna

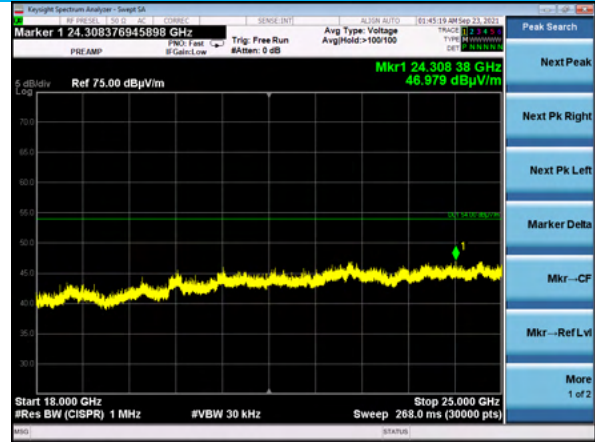


5725-5800 MHz, Channel 140, MCS0, Peak Vertical Antenna

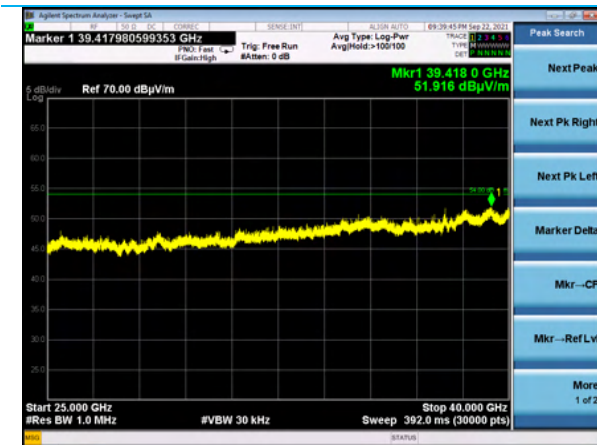
Company: GE Healthcare	Page 46 of 48	Name: Mobile Patient Monitor
Report: TR3514 B		Model: Portrait HUB01
Quote: NBO-09-2021-004136		Serial: SRW20440005SP



8-18 GHz, Channel 100, 6Mbps, Reduced VBW
Vertical Antenna



18-25 GHz, Channel 100, 6Mbps, Reduced VBW
Vertical Antenna



25-40 GHz, Channel 100, 6Mbps, Reduced VBW
Vertical Antenna

Company: GE Healthcare	Page 47 of 48	Name: Mobile Patient Monitor
Report: TR3514 B		Model: Portrait HUB01
Quote: NBO-09-2021-004136		Serial: SRW20440005SP

6 REVISION HISTORY

Version	Date	Notes	Person
0	10-4-2021	Initial Draft	Zach Wilson
1	10-7-2021	Original report broken into three reports for upload to TCB, separated by band	Zach Wilson

END OF REPORT