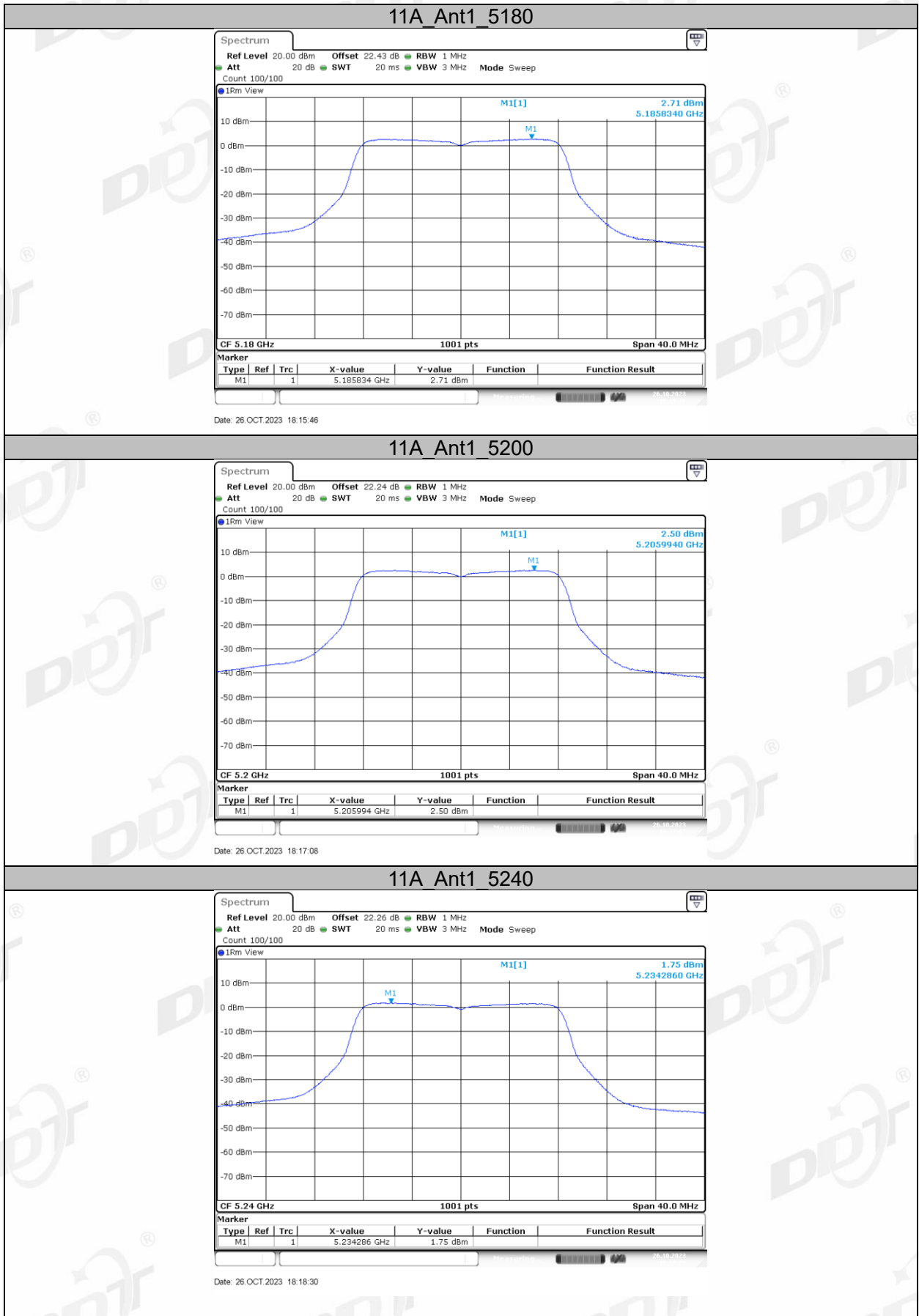
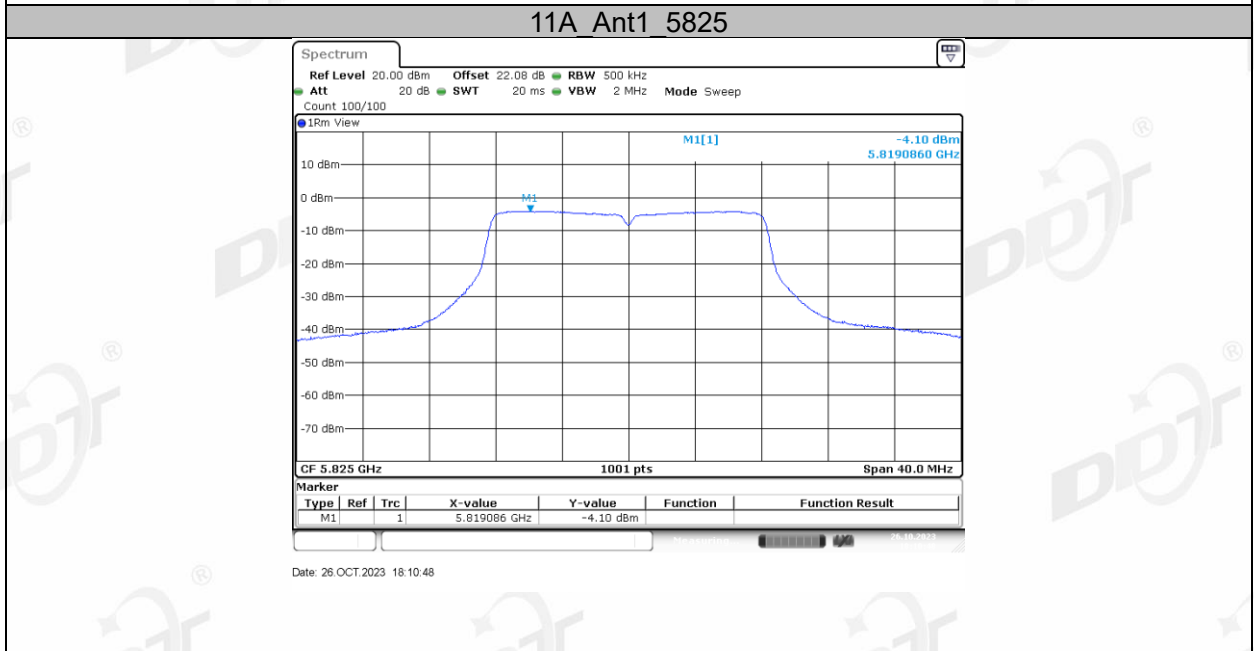
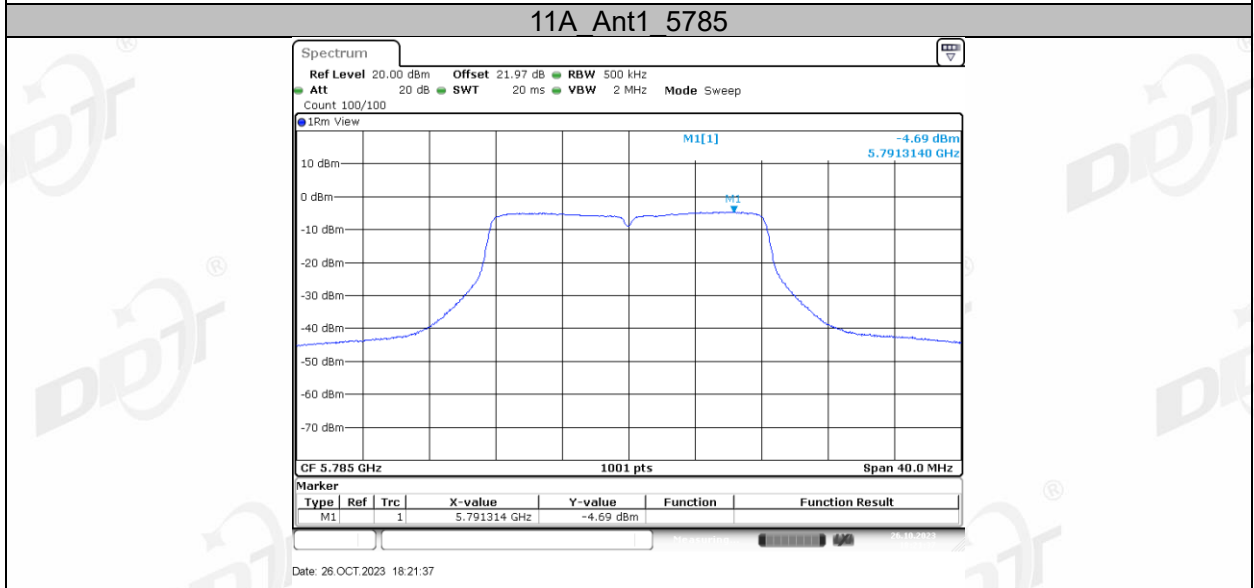
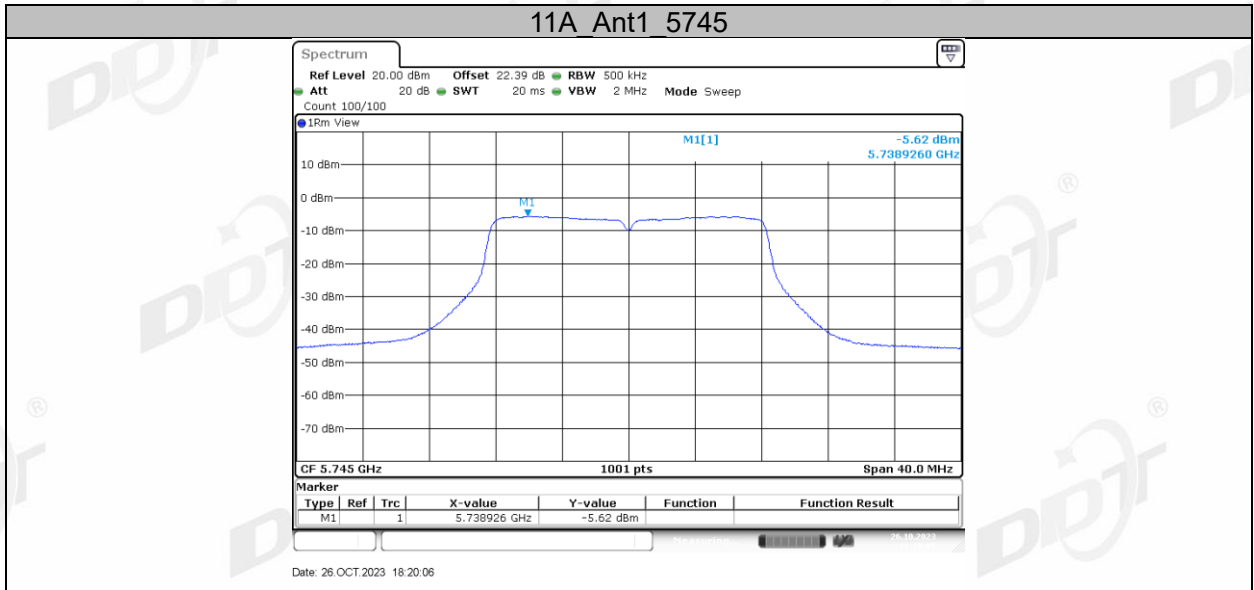
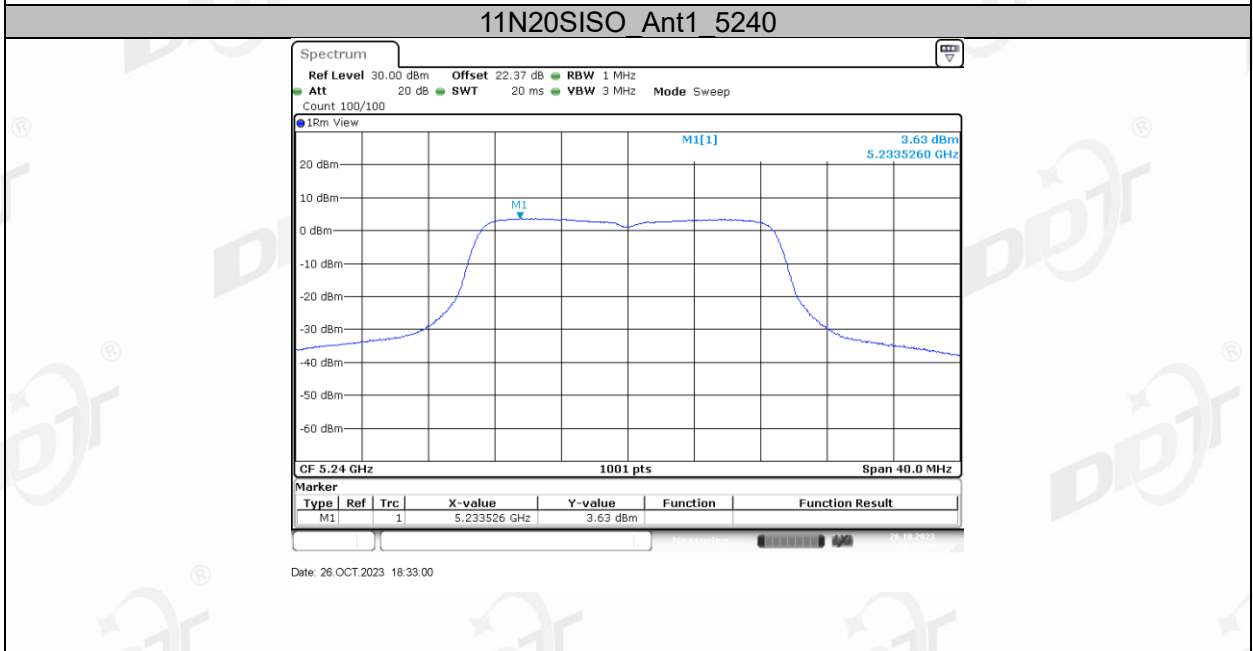
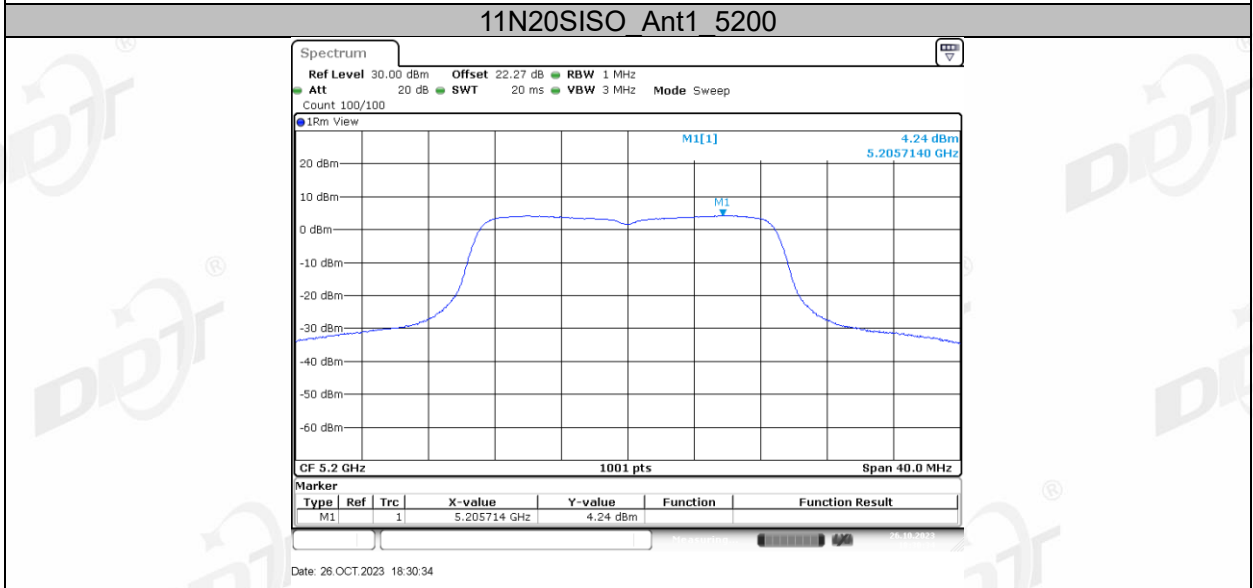
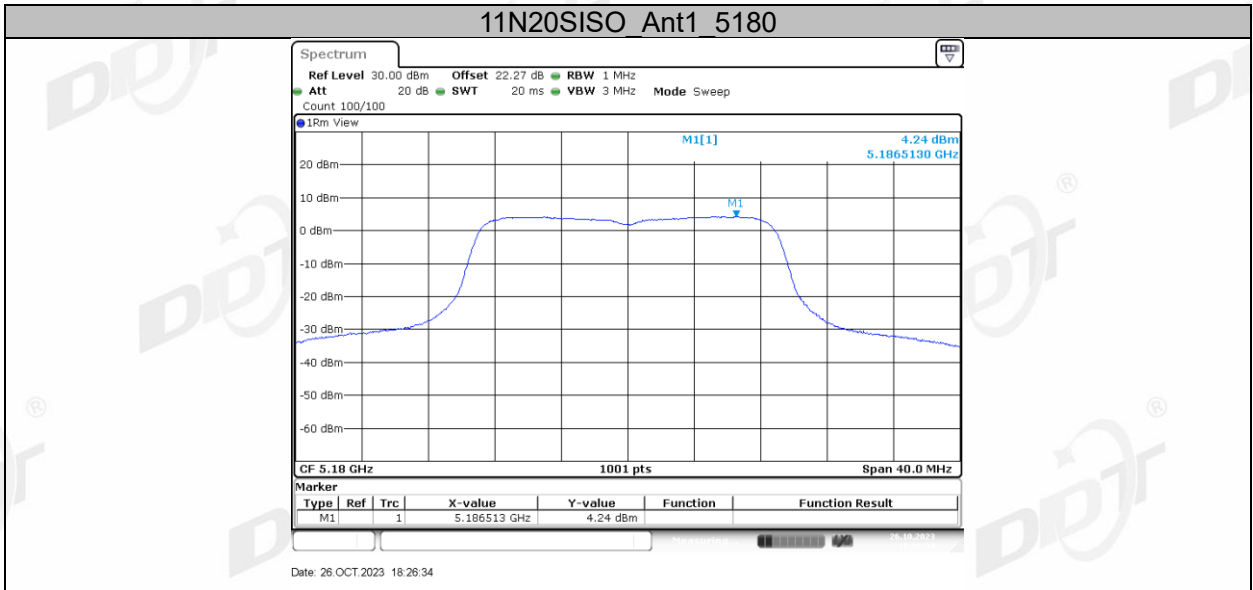
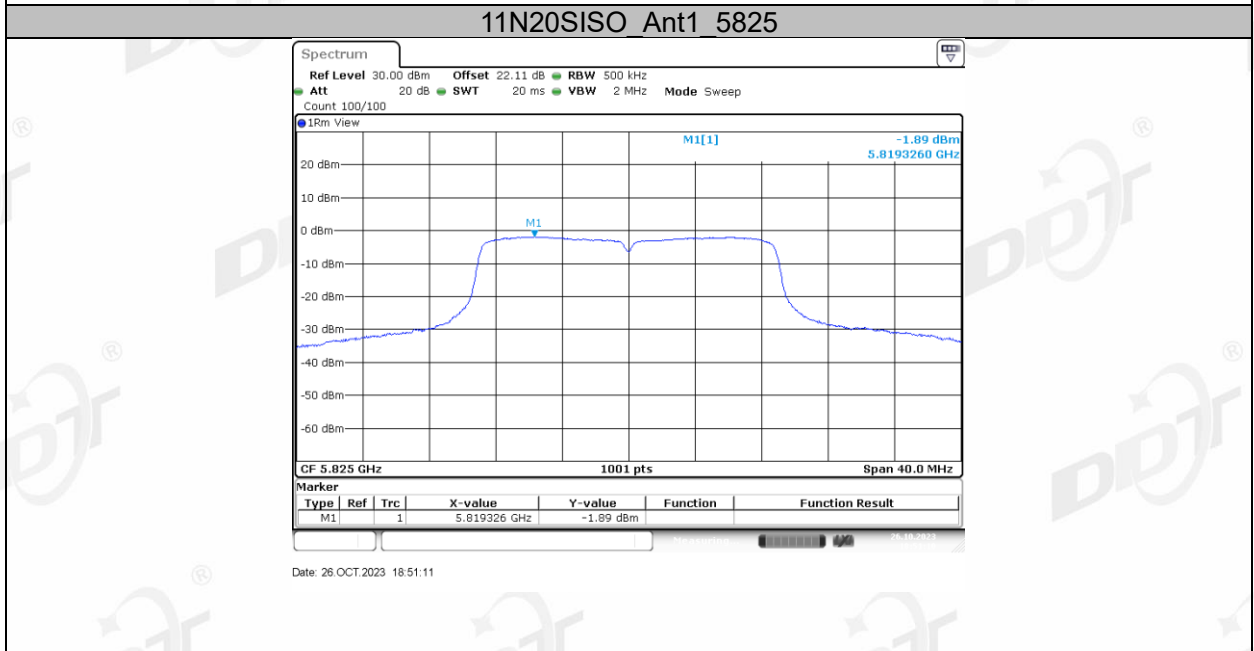
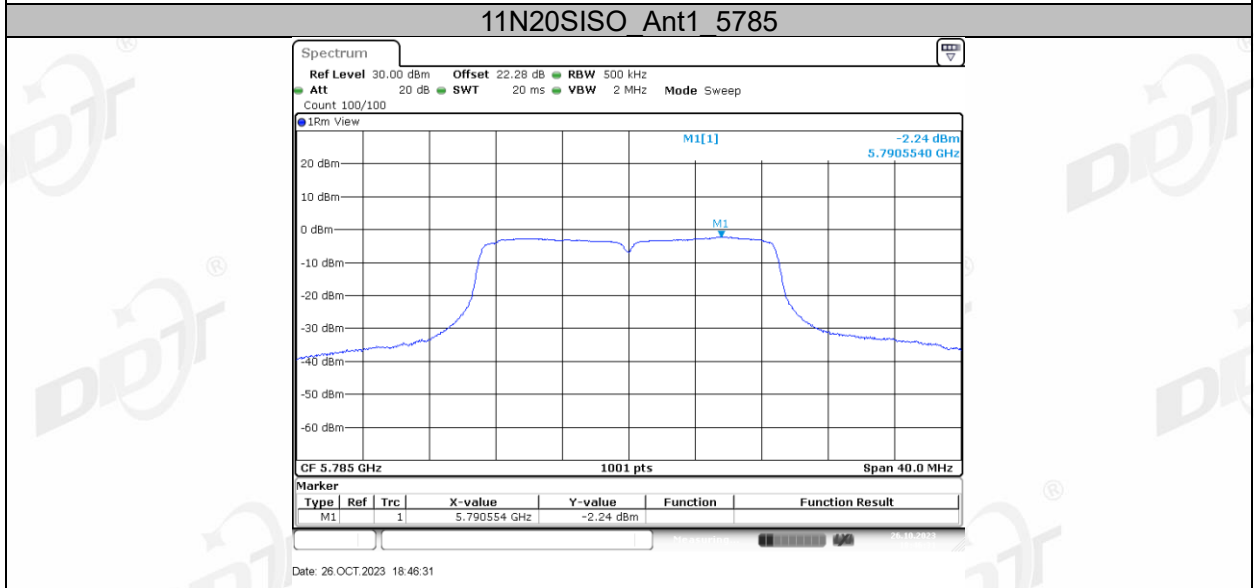
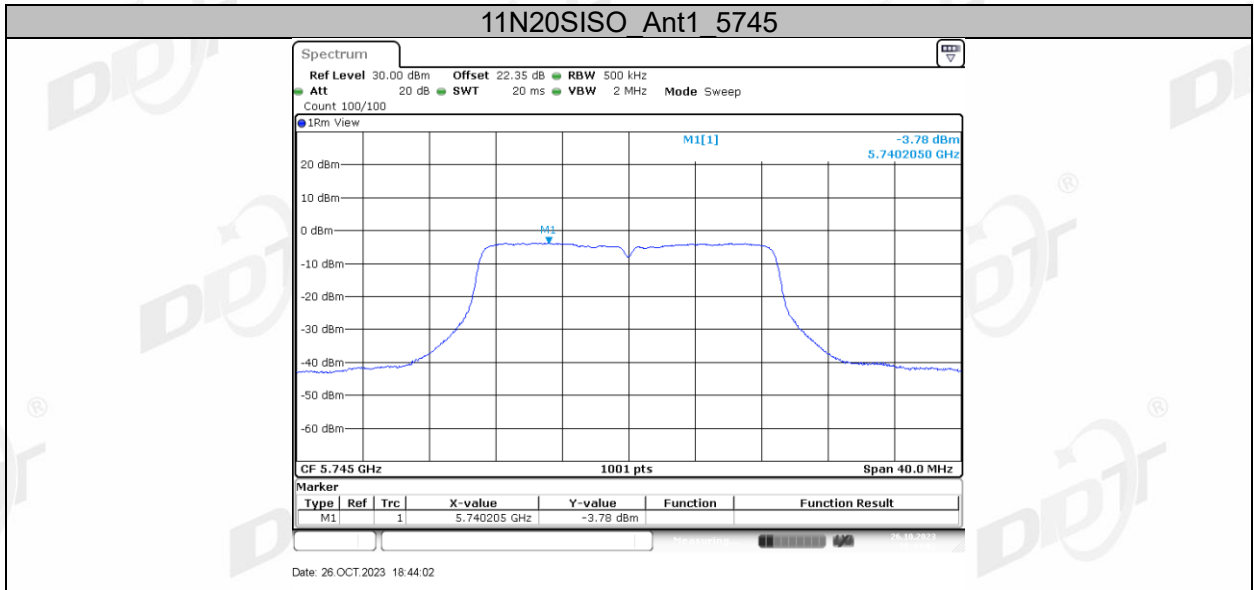


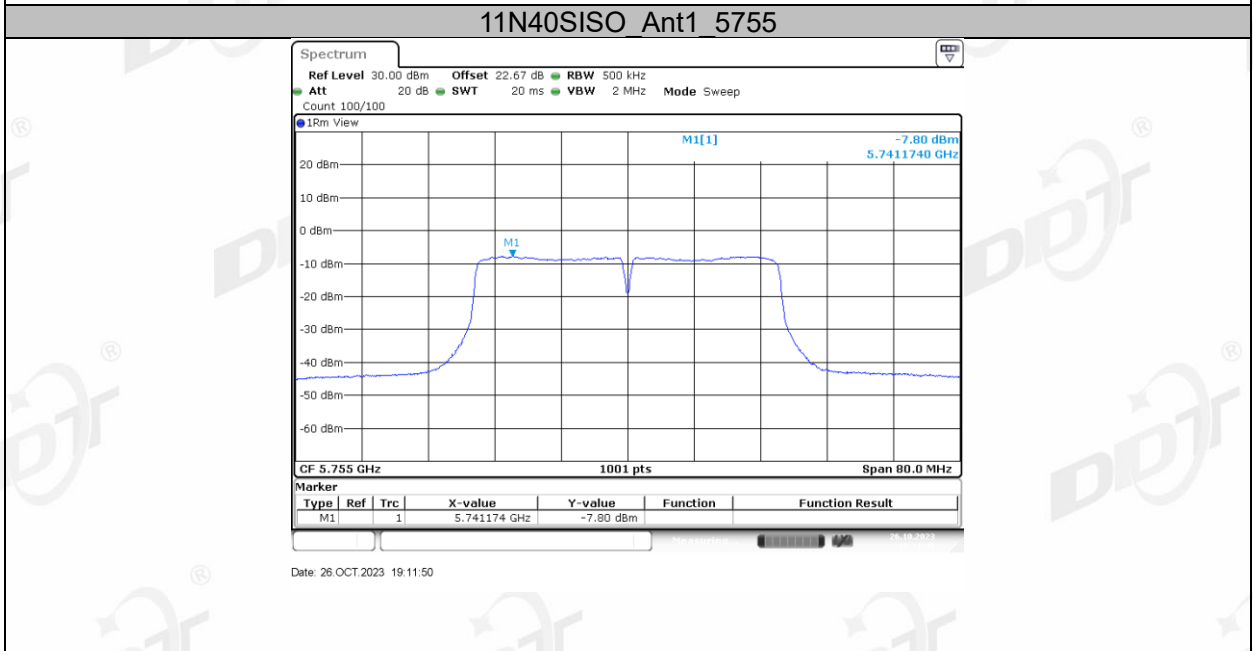
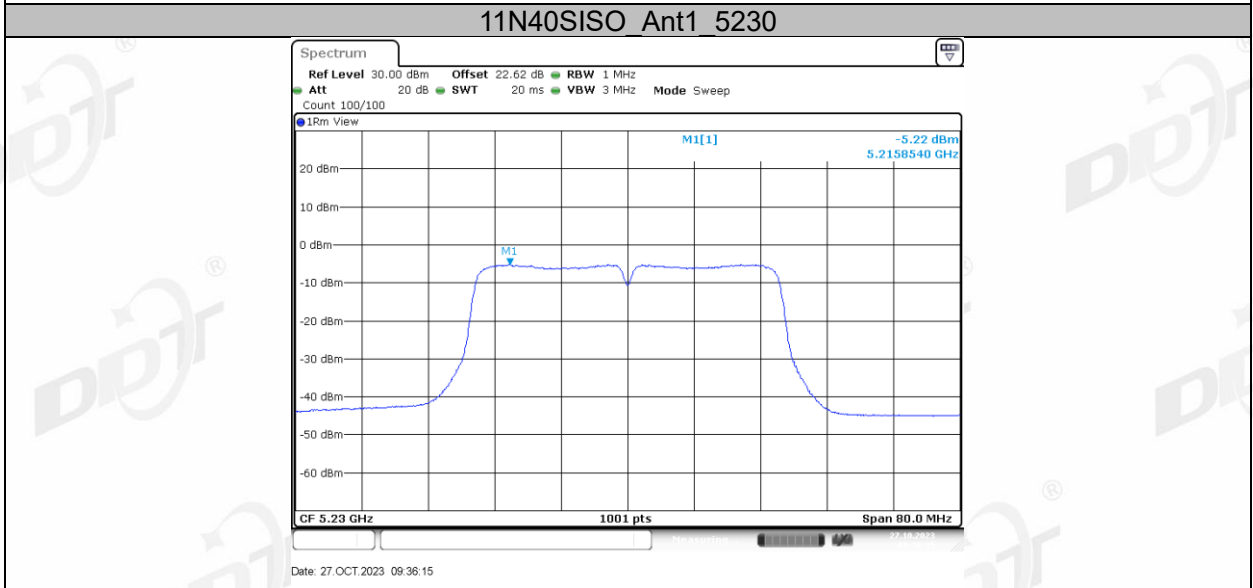
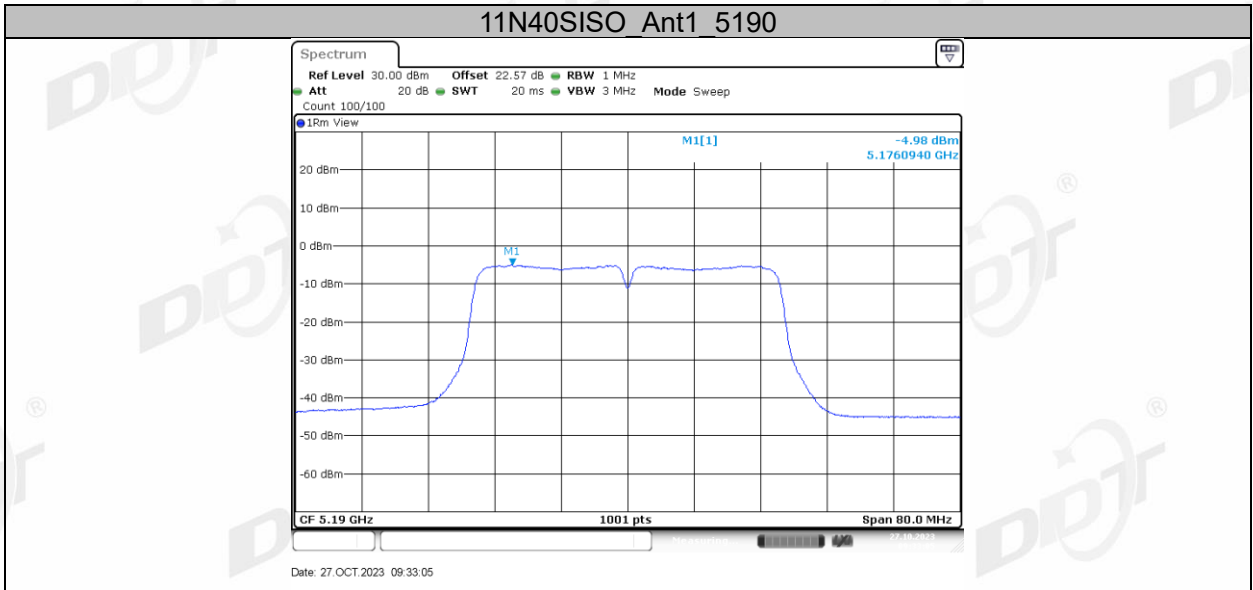
9.5. Test graphs

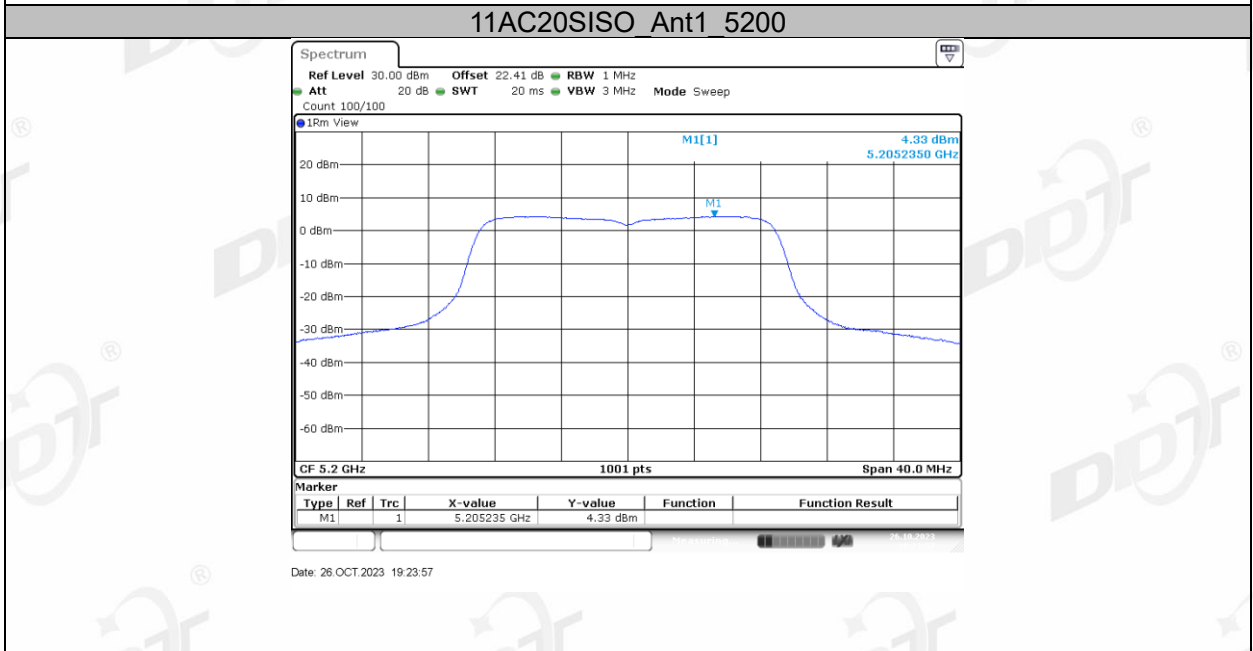
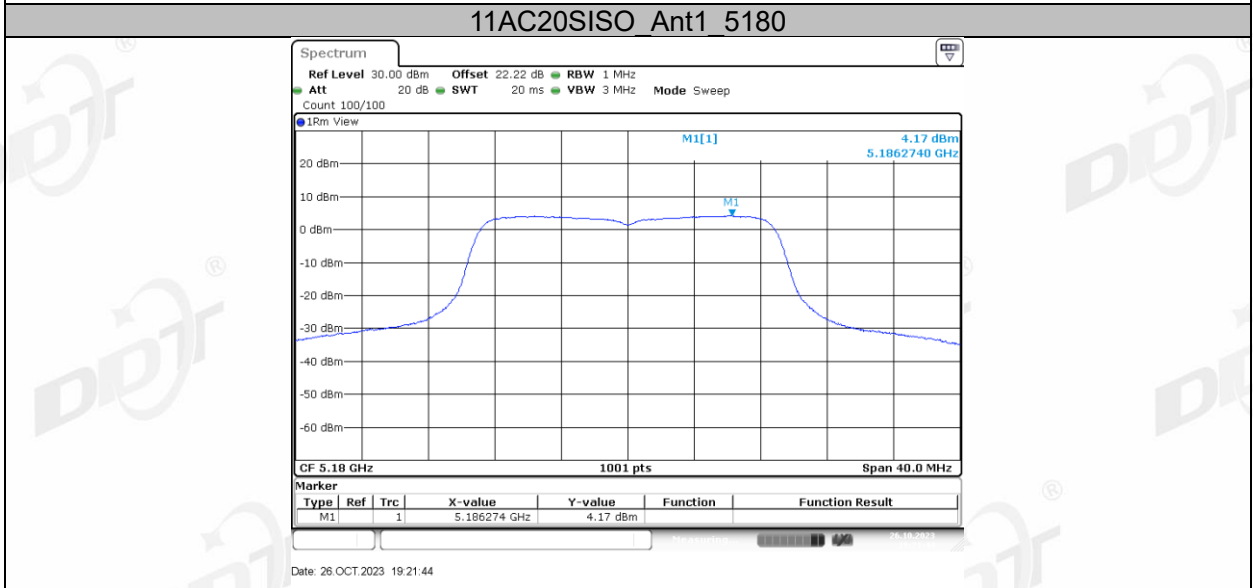
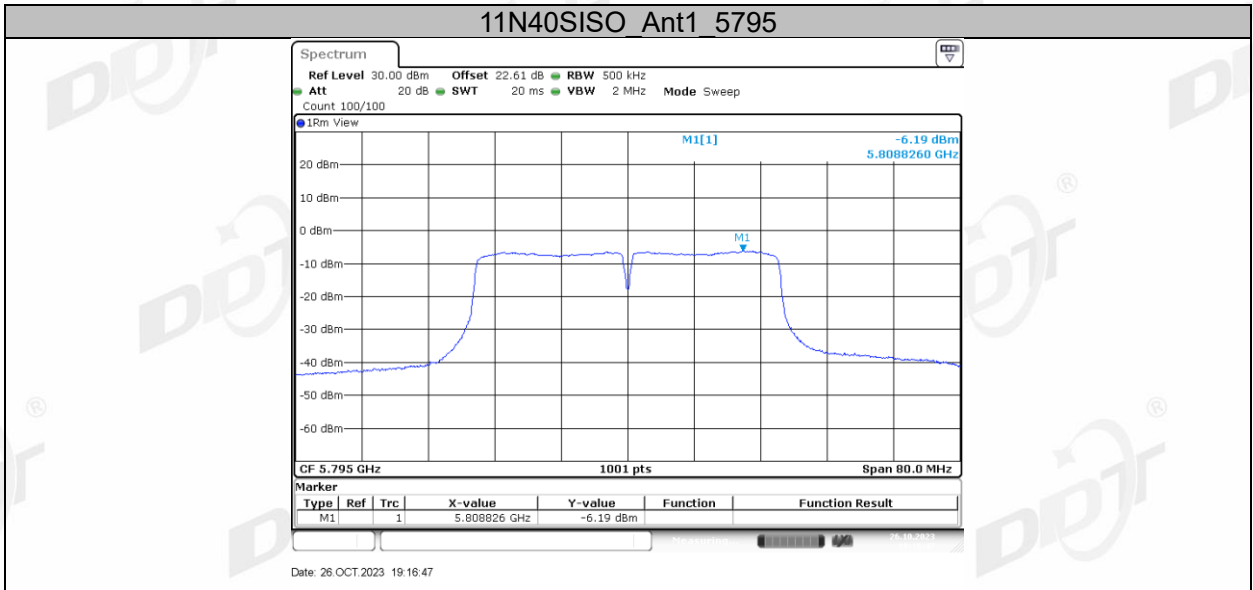


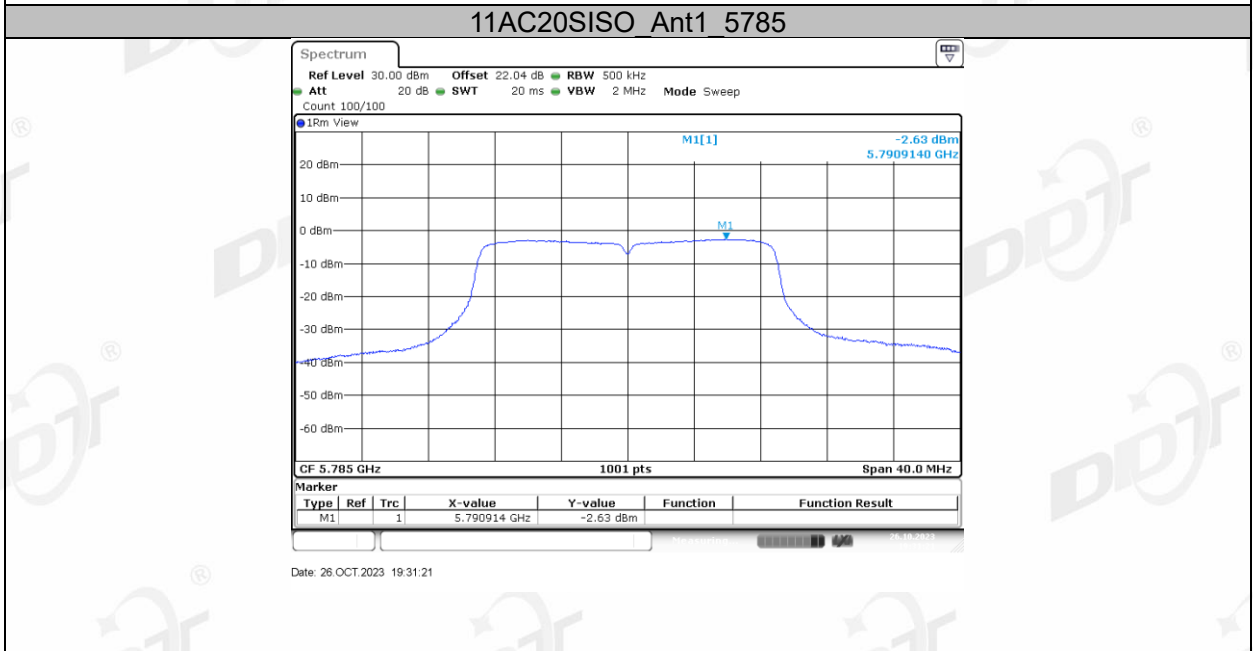
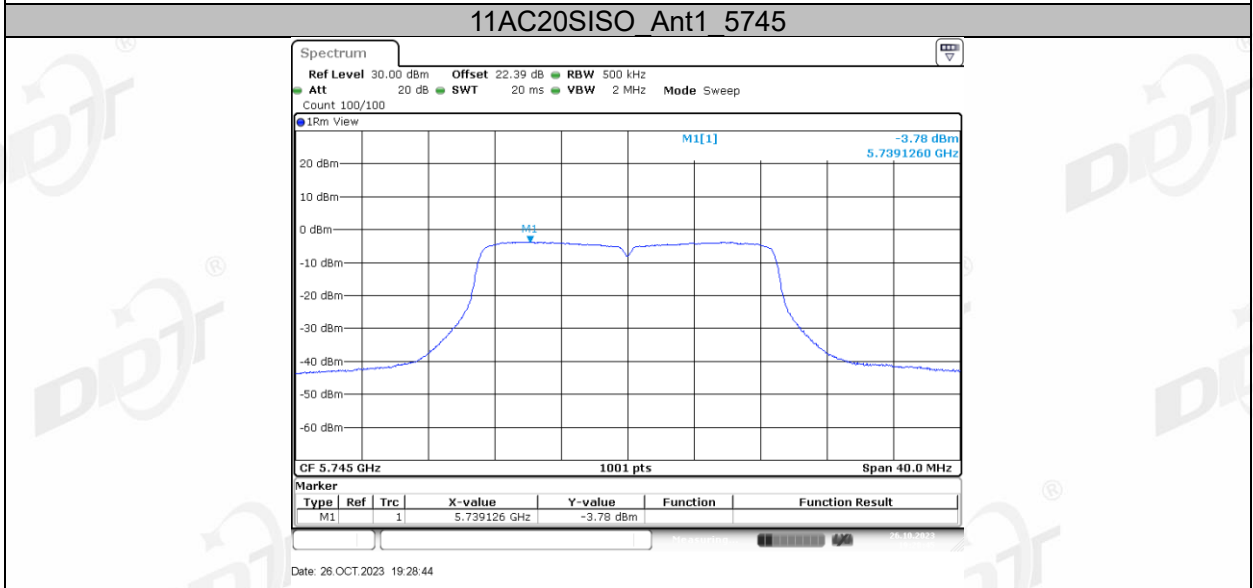
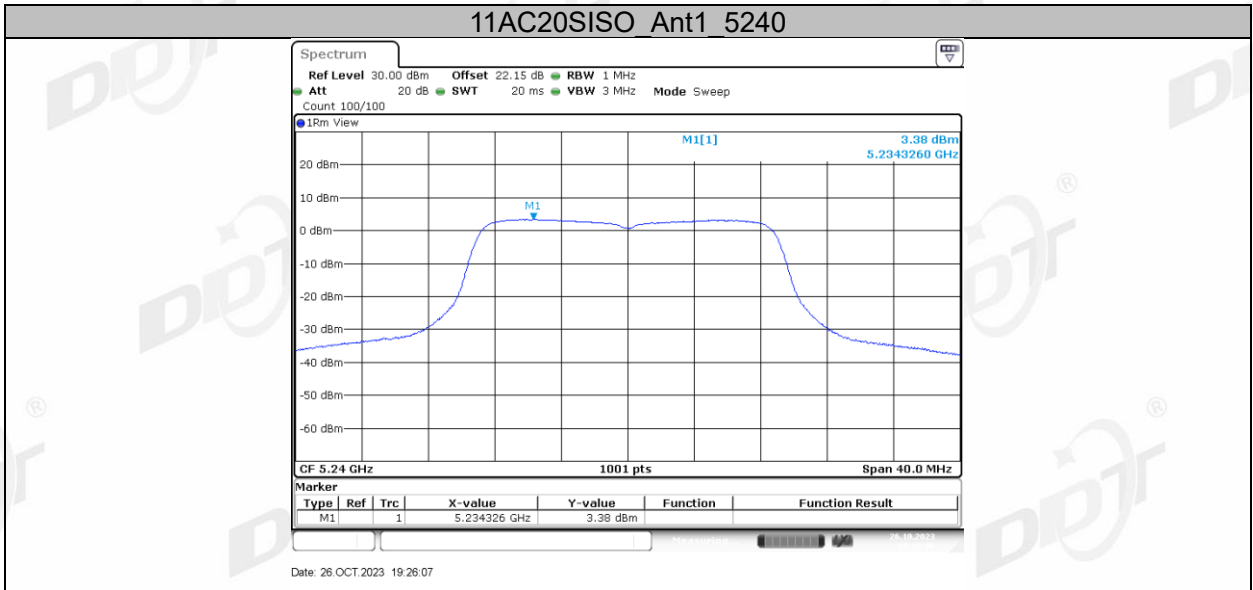


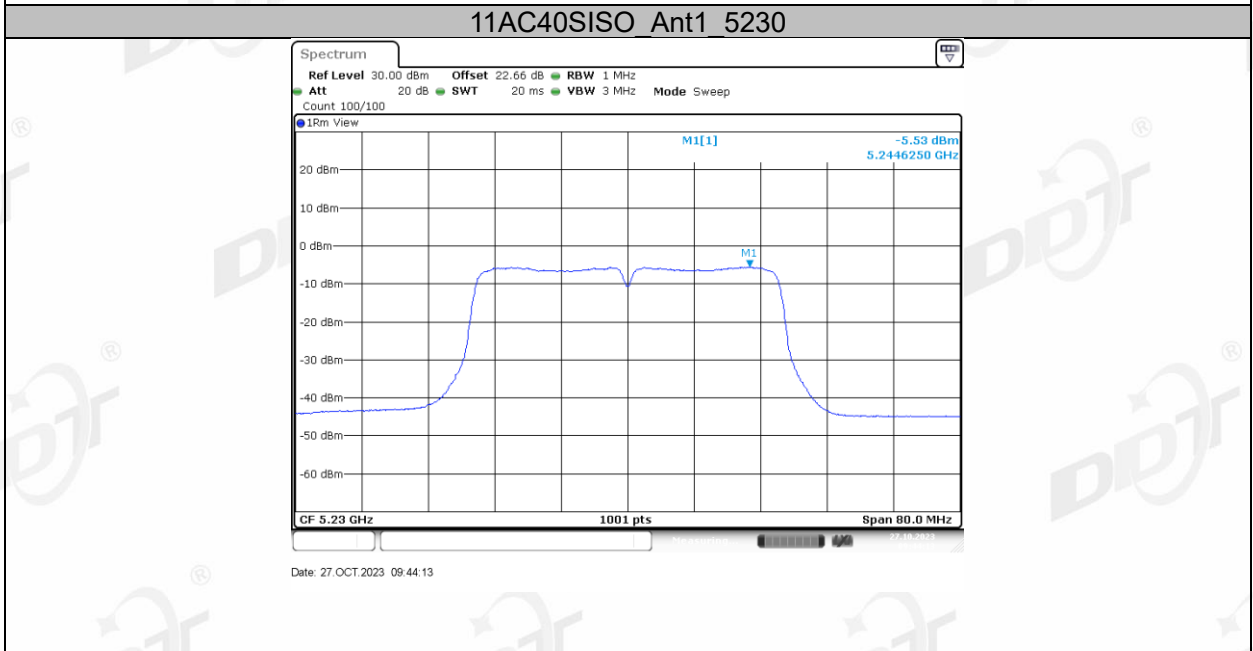
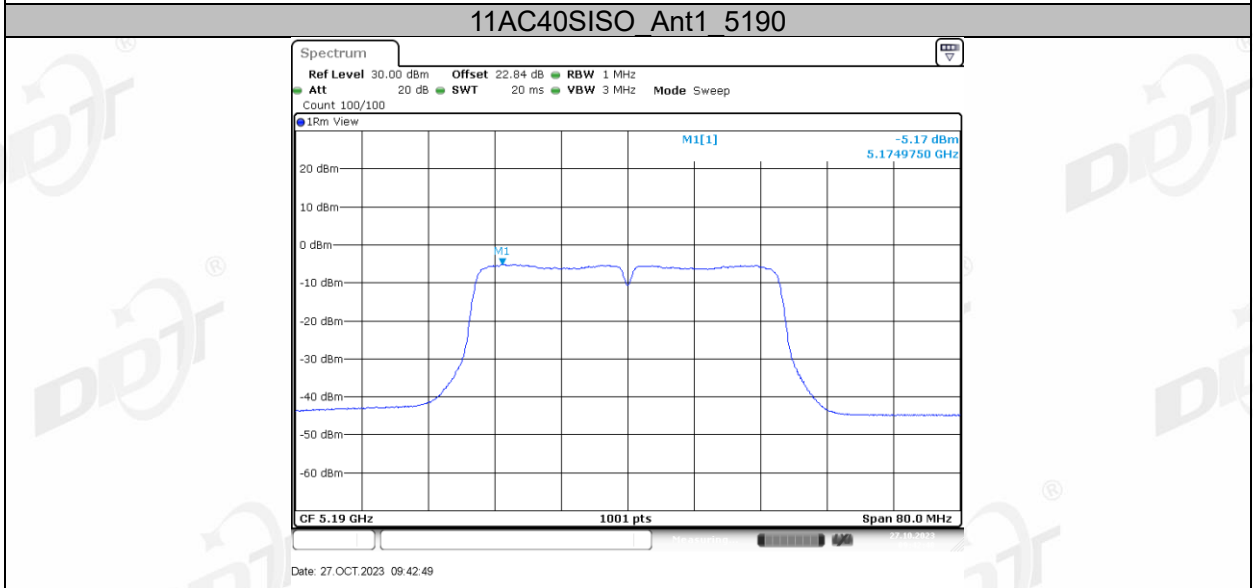
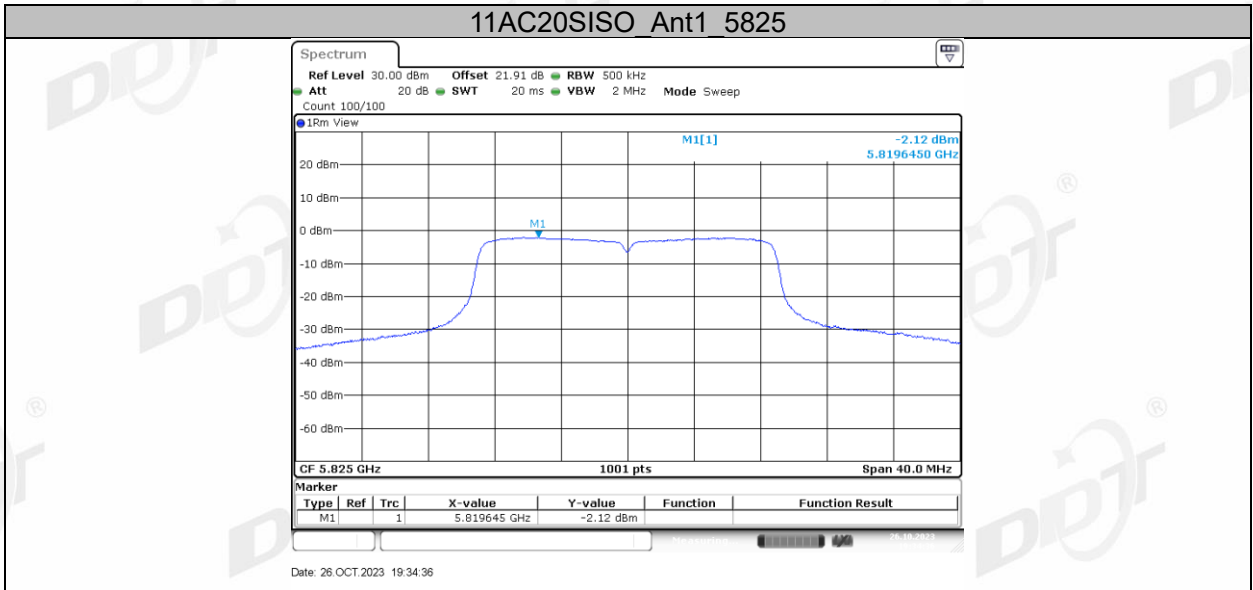


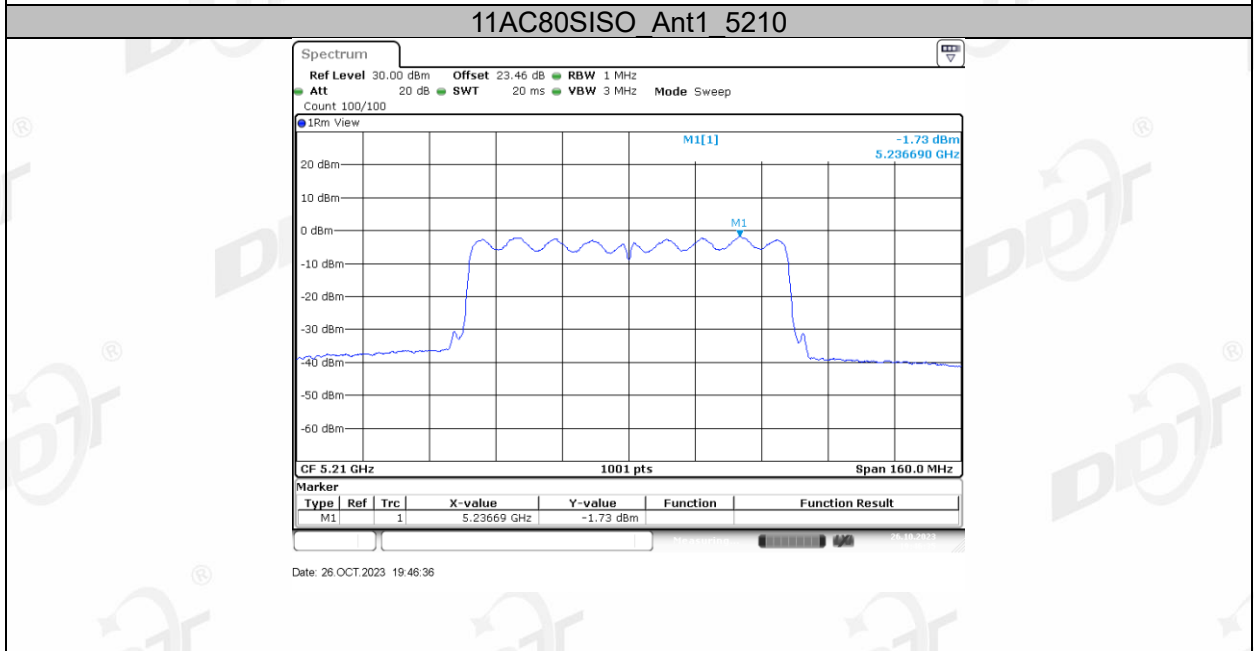
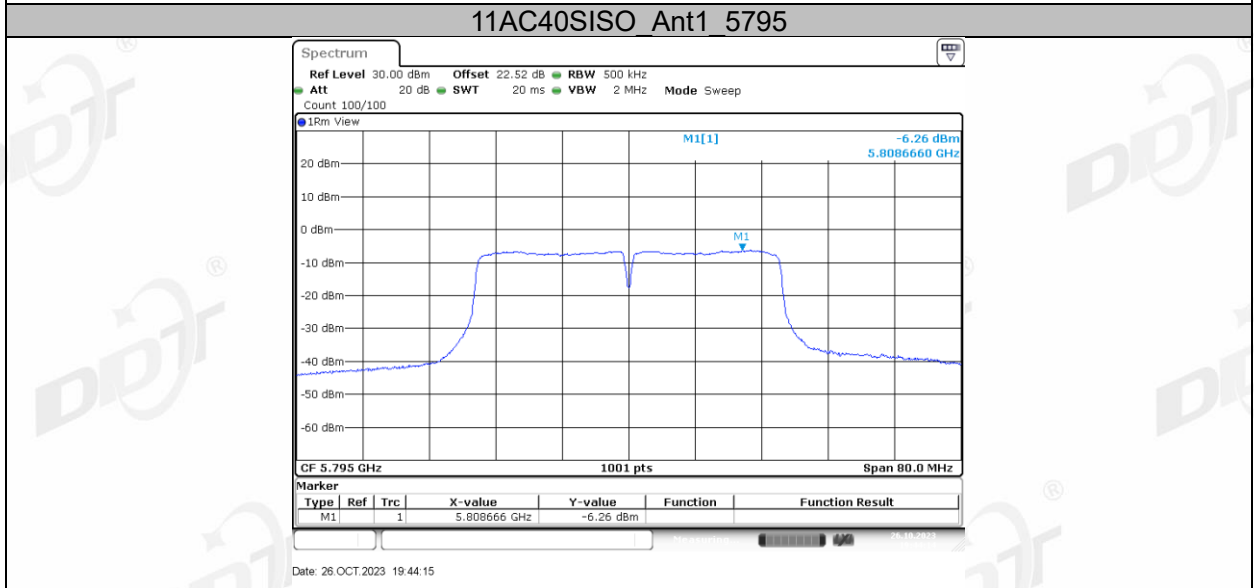
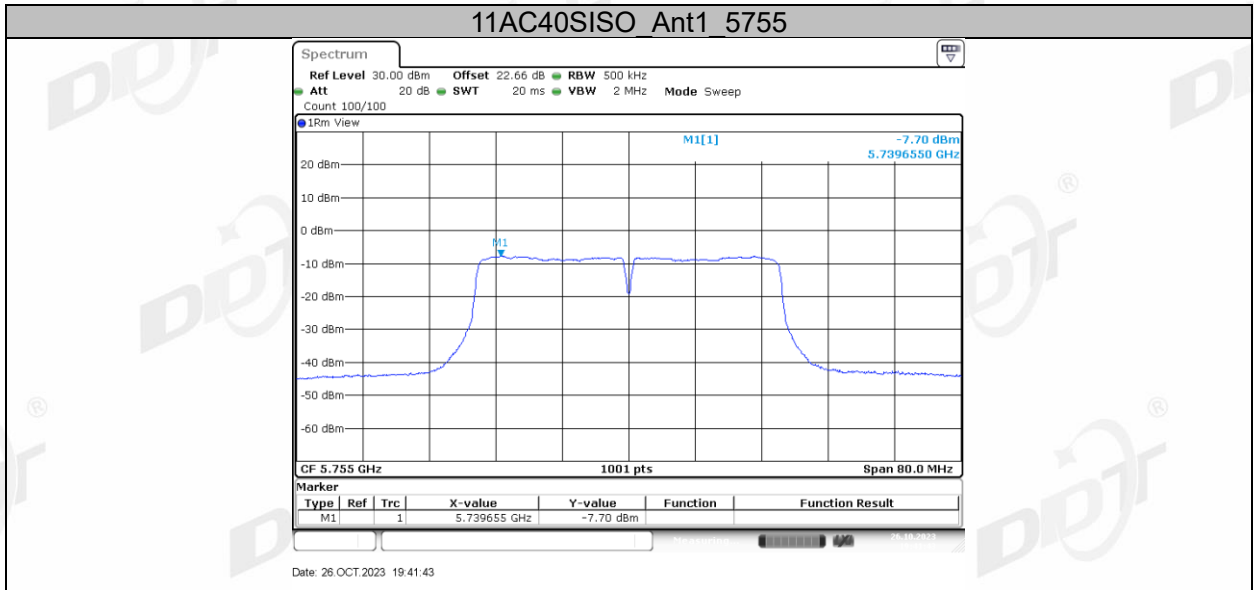


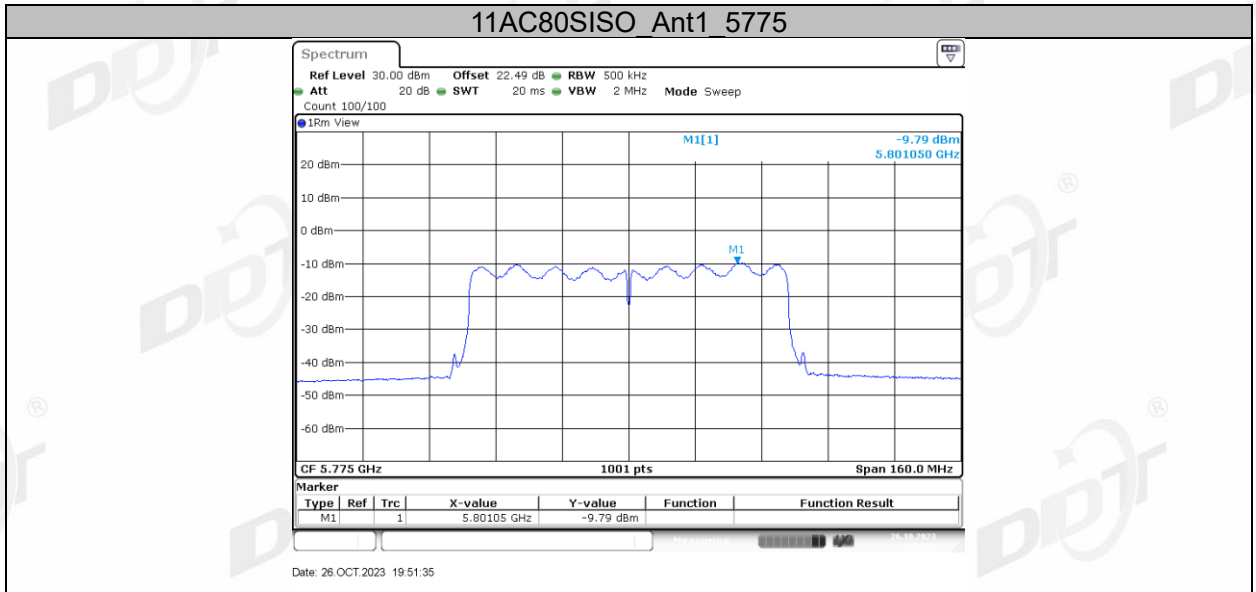












10. Frequency Stability Measurement

10.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

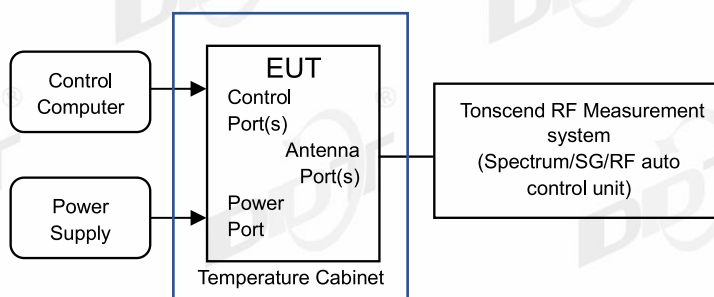
10.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

10.3. Test procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

10.4. Test setup



10.5. Test result

Test Site:	RF Measurement System 3#	Test Date:	2023.10.26-2023.10.26
Ambient Condition:	25.3°C, 44.0 %RH	Test Engineer:	Zhongyao
Equipment under Test:	NAVIGATION MULTIMEDIA RECEIVER	Model No.:	iX210
Sample Number:	S23101322-02	Test Power Supply:	DC12V

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	-40000.00	-7.722008	20	PASS
		5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-40000.00	-7.692308	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
		5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
		5745	NV	NT	-60000.00	-10.443864	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
		5785	NV	NT	-40000.00	-6.914434	20	PASS
			LV	NT	-40000.00	-6.914434	20	PASS
			HV	NT	-40000.00	-6.914434	20	PASS
		5825	NV	NT	-40000.00	-6.866953	20	PASS
			LV	NT	-40000.00	-6.866953	20	PASS
			HV	NT	-40000.00	-6.866953	20	PASS
11N40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS

		5755	HV	NT	-40000.00	-7.648184	20	PASS		
			NV	NT	-40000.00	-6.950478	20	PASS		
			LV	NT	0.00	0.000000	20	PASS		
		5795	HV	NT	-40000.00	-6.950478	20	PASS		
			NV	NT	-40000.00	-6.902502	20	PASS		
			LV	NT	0.00	0.000000	20	PASS		
		11AC80SISO	Ant1	5210	NV	NT	-80000.00	-15.355086	20	PASS
					LV	NT	0.00	0.000000	20	PASS
					HV	NT	0.00	0.000000	20	PASS
5775	NV			NT	-80000.00	-13.852814	20	PASS		
	LV			NT	0.00	0.000000	20	PASS		
	HV			NT	-80000.00	-13.852814	20	PASS		

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-40	-40000.00	-7.722008	20	PASS
			NV	-30	-40000.00	-7.722008	20	PASS
			NV	-20	-40000.00	-7.722008	20	PASS
			NV	-10	-40000.00	-7.722008	20	PASS
			NV	0	-40000.00	-7.722008	20	PASS
			NV	10	-40000.00	-7.722008	20	PASS
			NV	20	-40000.00	-7.722008	20	PASS
			NV	30	-40000.00	-7.722008	20	PASS
			NV	40	-40000.00	-7.722008	20	PASS
			NV	50	-40000.00	-7.722008	20	PASS
			NV	60	-40000.00	-7.722008	20	PASS
			NV	70	-40000.00	-7.722008	20	PASS
			NV	80	-40000.00	-7.722008	20	PASS
		NV	90	-40000.00	-7.722008	20	PASS	
		5200	NV	-40	-40000.00	-7.692308	20	PASS
			NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	-40000.00	-7.692308	20	PASS
			NV	-10	-40000.00	-7.692308	20	PASS
			NV	0	-40000.00	-7.692308	20	PASS

		NV	10	-40000.00	-7.692308	20	PASS
		NV	20	-20000.00	-3.846154	20	PASS
		NV	30	-20000.00	-3.846154	20	PASS
		NV	40	-40000.00	-7.692308	20	PASS
		NV	50	-20000.00	-3.846154	20	PASS
		NV	60	-20000.00	-3.846154	20	PASS
		NV	70	-40000.00	-7.692308	20	PASS
		NV	80	-20000.00	-3.846154	20	PASS
		NV	90	-20000.00	-3.846154	20	PASS
	5240	NV	-40	-20000.00	-3.816794	20	PASS
		NV	-30	-20000.00	-3.816794	20	PASS
		NV	-20	-20000.00	-3.816794	20	PASS
		NV	-10	-40000.00	-7.633588	20	PASS
		NV	0	-20000.00	-3.816794	20	PASS
		NV	10	-40000.00	-7.633588	20	PASS
		NV	20	-20000.00	-3.816794	20	PASS
		NV	30	-40000.00	-7.633588	20	PASS
		NV	40	-40000.00	-7.633588	20	PASS
		NV	50	-20000.00	-3.816794	20	PASS
		NV	60	-40000.00	-7.633588	20	PASS
		NV	70	-20000.00	-3.816794	20	PASS
	5745	NV	-40	-40000.00	-6.962576	20	PASS
		NV	-30	-40000.00	-6.962576	20	PASS
		NV	-20	-40000.00	-6.962576	20	PASS
		NV	-10	-40000.00	-6.962576	20	PASS
		NV	0	-40000.00	-6.962576	20	PASS
		NV	10	-40000.00	-6.962576	20	PASS
		NV	20	-40000.00	-6.962576	20	PASS
		NV	30	-40000.00	-6.962576	20	PASS
		NV	40	-40000.00	-6.962576	20	PASS
		NV	50	-40000.00	-6.962576	20	PASS
		NV	60	-40000.00	-6.962576	20	PASS
		NV	70	-40000.00	-6.962576	20	PASS
5785	NV	-40	-40000.00	-6.914434	20	PASS	
	NV	-30	-40000.00	-6.914434	20	PASS	

		5825	NV	-20	-40000.00	-6.914434	20	PASS
			NV	-10	-40000.00	-6.914434	20	PASS
			NV	0	-40000.00	-6.914434	20	PASS
			NV	10	-40000.00	-6.914434	20	PASS
			NV	20	-40000.00	-6.914434	20	PASS
			NV	30	-40000.00	-6.914434	20	PASS
			NV	40	-40000.00	-6.914434	20	PASS
			NV	50	-40000.00	-6.914434	20	PASS
			NV	60	-40000.00	-6.914434	20	PASS
			NV	70	-20000.00	-3.457217	20	PASS
			NV	80	-40000.00	-6.914434	20	PASS
		NV	90	-40000.00	-6.914434	20	PASS	
		NV	-40	-40000.00	-6.866953	20	PASS	
		NV	-30	-40000.00	-6.866953	20	PASS	
		NV	-20	-40000.00	-6.866953	20	PASS	
		NV	-10	-40000.00	-6.866953	20	PASS	
		NV	0	-40000.00	-6.866953	20	PASS	
		NV	10	-40000.00	-6.866953	20	PASS	
		NV	20	-40000.00	-6.866953	20	PASS	
		NV	30	-40000.00	-6.866953	20	PASS	
		NV	40	-40000.00	-6.866953	20	PASS	
NV	50	-40000.00	-6.866953	20	PASS			
NV	60	-40000.00	-6.866953	20	PASS			
NV	70	-40000.00	-6.866953	20	PASS			
NV	80	-40000.00	-6.866953	20	PASS			
NV	90	-40000.00	-6.866953	20	PASS			
11N40SISO	Ant1	5190	NV	-40	0.00	0.000000	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.707129	20	PASS
			NV	20	-40000.00	-7.707129	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
			NV	60	-40000.00	-7.707129	20	PASS
			NV	70	0.00	0.000000	20	PASS
NV	80	0.00	0.000000	20	PASS			

		NV	90	0.00	0.000000	20	PASS
	5230	NV	-40	-40000.00	-7.648184	20	PASS
		NV	-30	-40000.00	-7.648184	20	PASS
		NV	-20	-40000.00	-7.648184	20	PASS
		NV	-10	0.00	0.000000	20	PASS
		NV	0	-40000.00	-7.648184	20	PASS
		NV	10	-40000.00	-7.648184	20	PASS
		NV	20	-40000.00	-7.648184	20	PASS
		NV	30	-40000.00	-7.648184	20	PASS
		NV	40	-40000.00	-7.648184	20	PASS
		NV	50	-80000.00	15.296367	20	PASS
		NV	60	-40000.00	-7.648184	20	PASS
		NV	70	0.00	0.000000	20	PASS
		NV	80	-40000.00	-7.648184	20	PASS
		NV	90	-40000.00	-7.648184	20	PASS
		5755	NV	-40	-40000.00	-6.950478	20
	NV		-30	-40000.00	-6.950478	20	PASS
	NV		-20	-40000.00	-6.950478	20	PASS
	NV		-10	-40000.00	-6.950478	20	PASS
	NV		0	-40000.00	-6.950478	20	PASS
	NV		10	-40000.00	-6.950478	20	PASS
	NV		20	-40000.00	-6.950478	20	PASS
	NV		30	-40000.00	-6.950478	20	PASS
	NV		40	-40000.00	-6.950478	20	PASS
	NV		50	-40000.00	-6.950478	20	PASS
	5795	NV	-40	-40000.00	-6.902502	20	PASS
		NV	-30	-40000.00	-6.902502	20	PASS
		NV	-20	-40000.00	-6.902502	20	PASS
		NV	-10	-40000.00	-6.902502	20	PASS
		NV	0	-40000.00	-6.902502	20	PASS
		NV	10	-40000.00	-6.902502	20	PASS
		NV	20	-40000.00	-6.902502	20	PASS
		NV	30	-40000.00	-6.902502	20	PASS
		NV	40	0.00	0.000000	20	PASS
		NV	50	-40000.00	-6.902502	20	PASS

11AC80SISO	Ant1	5210	NV	60	-40000.00	-6.902502	20	PASS
			NV	70	-40000.00	-6.902502	20	PASS
			NV	80	-40000.00	-6.902502	20	PASS
			NV	90	-40000.00	-6.902502	20	PASS
		NV	-40	-80000.00	-	15.355086	20	PASS
		NV	-30	0.00	0.000000	20	PASS	
		NV	-20	0.00	0.000000	20	PASS	
		NV	-10	0.00	0.000000	20	PASS	
		NV	0	0.00	0.000000	20	PASS	
		NV	10	0.00	0.000000	20	PASS	
		NV	20	0.00	0.000000	20	PASS	
		NV	30	-80000.00	-	15.355086	20	PASS
		NV	40	0.00	0.000000	20	PASS	
		NV	50	-80000.00	-	15.355086	20	PASS
		NV	60	0.00	0.000000	20	PASS	
		NV	70	-80000.00	-	15.355086	20	PASS
		NV	80	0.00	0.000000	20	PASS	
		NV	90	-80000.00	-	15.355086	20	PASS
		5775	NV	-40	0.00	0.000000	20	PASS
			NV	-30	0.00	0.000000	20	PASS
NV	-20		-80000.00	-	13.852814	20	PASS	
NV	-10		-80000.00	-	13.852814	20	PASS	
NV	0		-80000.00	-	13.852814	20	PASS	
NV	10		-80000.00	-	13.852814	20	PASS	
NV	20		-80000.00	-	13.852814	20	PASS	
NV	30		-80000.00	-	13.852814	20	PASS	
NV	40		-80000.00	-	13.852814	20	PASS	
NV	50		-80000.00	-	13.852814	20	PASS	
NV	60		0.00	0.000000	20	PASS		
NV	70		0.00	0.000000	20	PASS		
NV	80		-80000.00	-	13.852814	20	PASS	
NV	90		0.00	0.000000	20	PASS		

11. Dynamic Frequency Selection

11.1. Applicability of DFS requirements

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> Client with Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

11.2. Limit

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

11.3. Parameters of radar test waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance.

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					
Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a					
Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

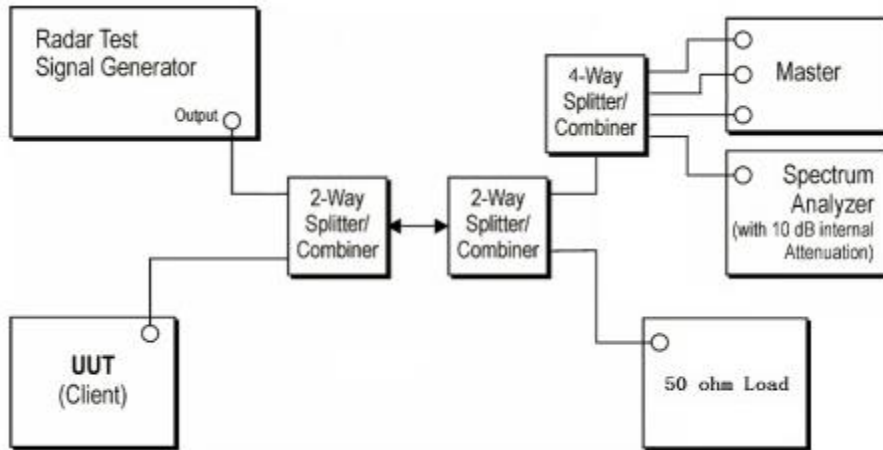
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

11.4. Calibration of radar waveform

Radar Waveform Calibration Procedure:

- (1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- (2) The interference Radar Detection Threshold Level is $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB .
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup:



- Note: 1. Use the software "Web" to set the frequency channel.
2. EUT is not support TPC and not with Radar detection.

Radar Waveform Calibration Result:

11.5. Channel closing transmission time, channel move time and non-occupancy period

Block diagram of test setup Test Procedure:

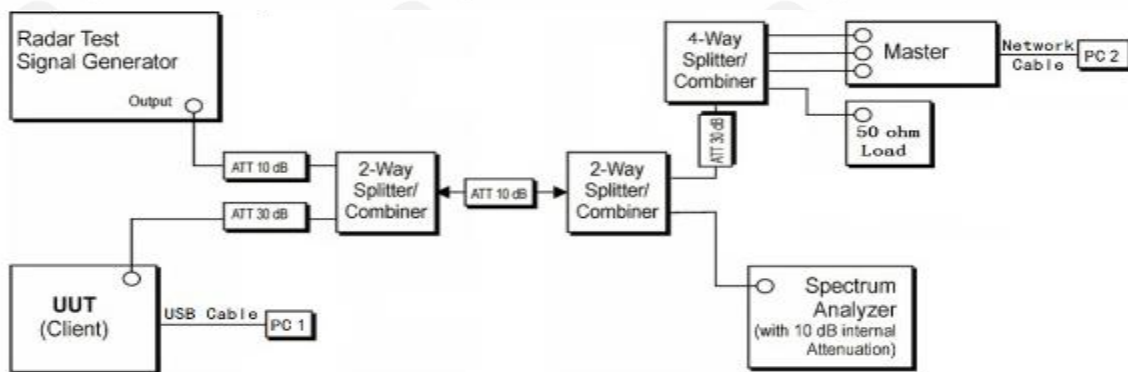
- (1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Test Software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- (6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- (7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With

the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

- (8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

11.6. Test setup

Setup for Client with injection at the Master



11.7. Test result

Not applicable. EUT does not support use in U-NII-2A and U-NII-2C band (from 5250MHz-5725MHz).

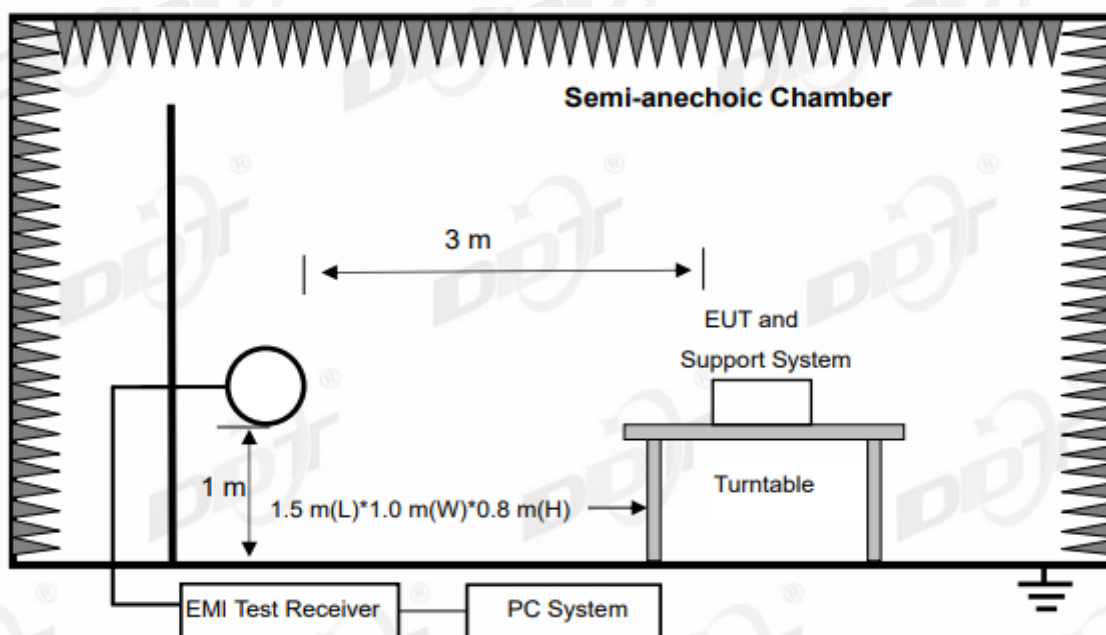
12. Emissions in Restricted Frequency Bands

12.1. Test equipment

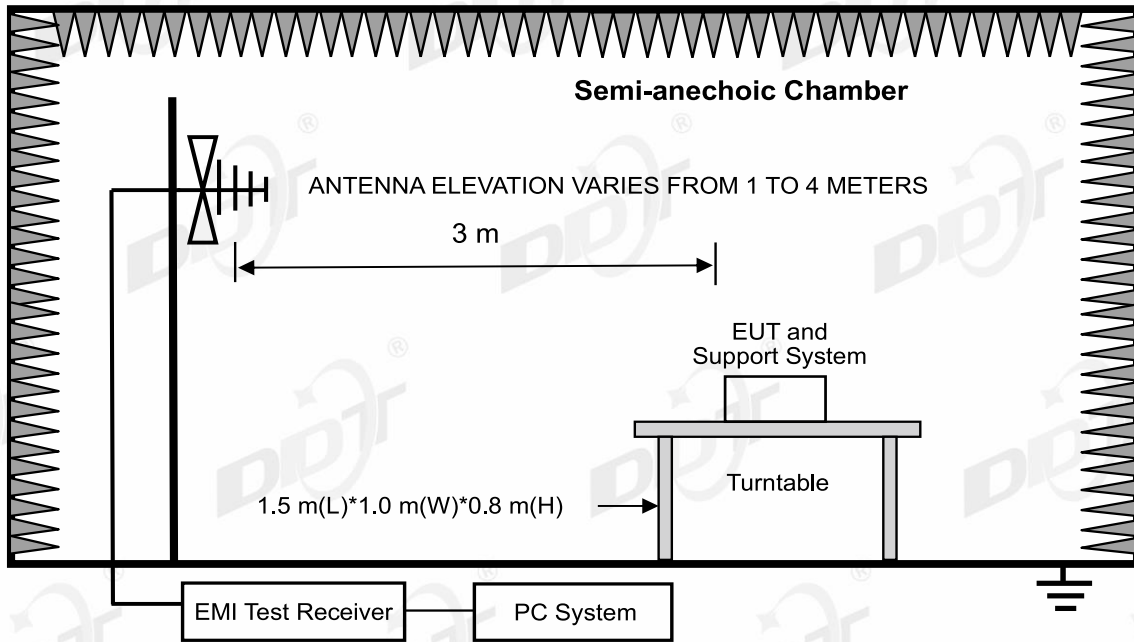
Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☒ Radiation 3# Chamber					
EMI TEST RECEIVER	R&S	ESU26	100472	2024/04/22	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	MY50180031	2024/04/22	1 Year
Active Loop Antenna	Schwarzbeck	FMZB-1519	1519-038	2024/09/10	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	2024/07/11	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA 9120 D	02468	2024/09/17	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	2024/04/25	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	2024/07/14	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	2024/04/26	1 Year
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ-NJ-1.5M	4.5M+8M+1.5M	2024/04/20	1 Year
RF Cable	Yuhu	JCTB810-NJ-NJ- 9M+ ZT26S-SMAJ- SMAJ-1M	21123964	2024/04/22	1 Year
Band Reject Filter (5150-5880 MHz)	REBES	BRM50716	G392	N/A	N/A
Test Software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A

12.2. Block diagram of test setup

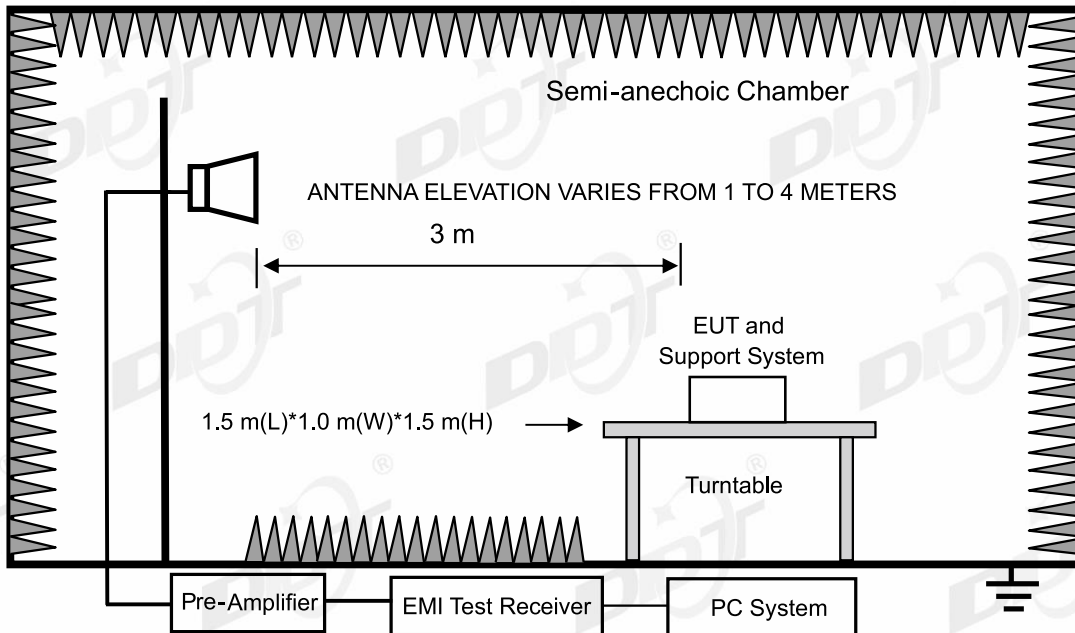
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

12.3. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12

8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits..

12.4. Test Procedure

- (1) EUT height should be 0 m for below 1 GHz at a semi - anechoic chamber while EUT height should be 0 m for above 1GHz at full chamber or semi - anechoic chamber ground with absorbers
- (2) Setup EUT and assistant system according clause 2.3 and 8.2
- (3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test distance
9 kHz-30 MHz	Active Loop antenna	3 m
30 MHz-1 GHz	Trilog Broadband Antenna	3 m
1 GHz-18 GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3 m
18 GHz-40 GHz	Horn Antenna(18GHz-40GHz)	1 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 40 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 40 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

- (5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission.

Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

- (6) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90kHz, 110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (7) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

- (8) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3MHz for Peak measure, the RBW is set at 1 MHz, VBW is set at 10 Hz for AV value.

12.5. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits and RSS-Gen section 8.9 limits.

Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

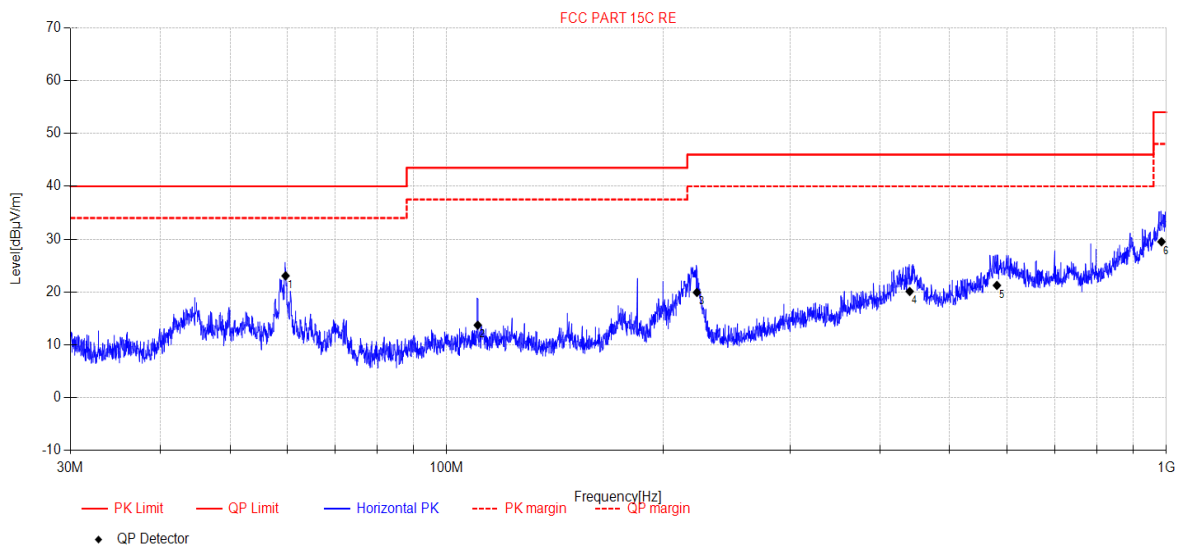
Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 802.11a mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-20 **Tested By:** Bairong
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: 5GWIFI **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC BELOW 1G\20231020-234917_H
Memo: Sample Number:S23101322-02 Power Setting:NA



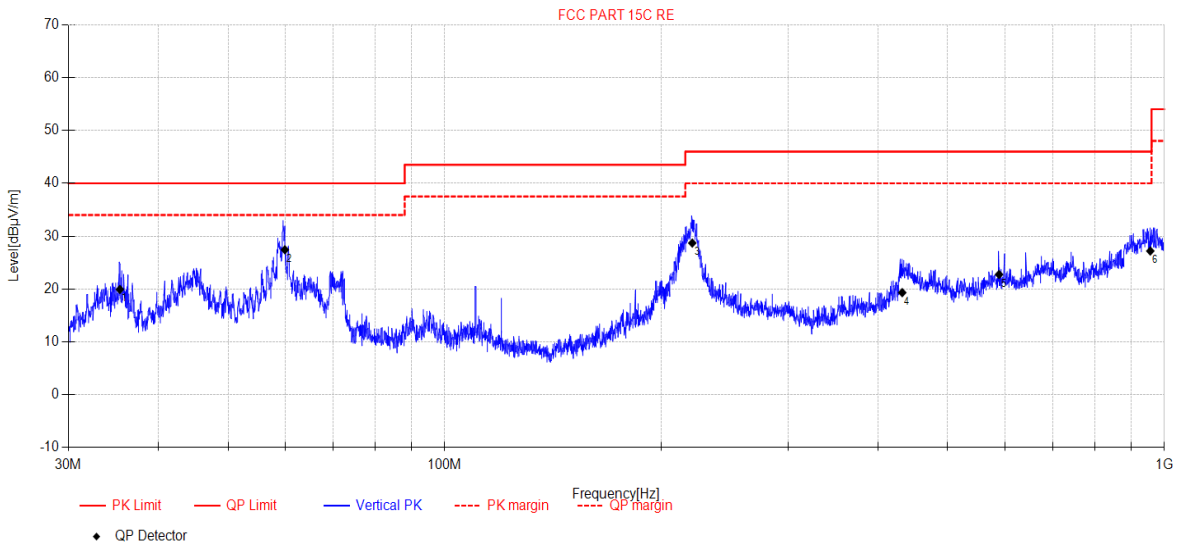
Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	59.72	36.28	12.66	4.76	-30.64	23.06	40.00	16.94	QP	Horizontal
2	110.46	27.47	12.01	5.12	-30.87	13.73	43.50	29.77	QP	Horizontal
3	222.70	33.46	11.16	5.83	-30.53	19.92	46.00	26.08	QP	Horizontal
4	439.96	27.24	16.10	6.79	-30.02	20.11	46.00	25.89	QP	Horizontal
5	581.58	25.11	18.78	7.26	-29.90	21.25	46.00	24.75	QP	Horizontal
6	984.69	27.2	21.91	8.64	-28.24	29.51	54.00	24.49	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-20 **Tested By:** Bairong
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: 5GWIFI **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC BELOW 1G\20231020-234934_V
Memo: Sample Number:S23101322-02 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	35.37	34.6	11.71	4.54	-30.92	19.93	40.00	20.07	QP	Vertical
2	59.98	40.51	12.79	4.76	-30.63	27.43	40.00	12.57	QP	Vertical
3	220.84	42.37	11.05	5.82	-30.54	28.70	46.00	17.30	QP	Vertical
4	432.31	26.8	15.79	6.77	-30.04	19.32	46.00	26.68	QP	Vertical
5	589.38	26.88	18.48	7.29	-29.90	22.75	46.00	23.25	QP	Vertical
6	956.12	25.41	21.73	8.54	-28.49	27.19	46.00	18.81	QP	Vertical

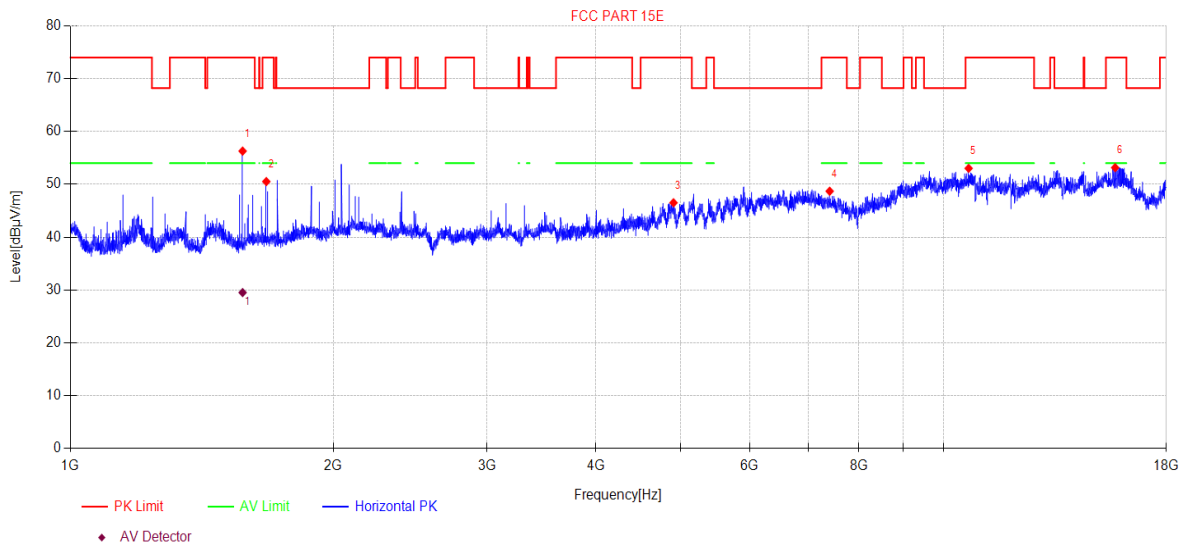
Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz) TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5180MHZ **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\1
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1575.10	63.20	25.20	4.83	-36.95	56.28	74.00	17.72	PK	Horizontal
2	1676.56	56.84	25.49	5.16	-36.97	50.52	74.00	23.48	PK	Horizontal
3	4907.19	45.78	33.01	7.83	-40.11	46.51	74.00	27.49	PK	Horizontal
4	7407.84	44.84	36.68	8.89	-41.72	48.69	74.00	25.31	PK	Horizontal
5	10686.71	43.13	39.37	9.49	-38.97	53.02	74.00	20.98	PK	Horizontal
6	15727.41	39.20	38.45	14.70	-39.20	53.15	74.00	20.85	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1575.09	36.44	25.20	4.83	-36.95	29.52	54.00	24.48	AV	Horizontal

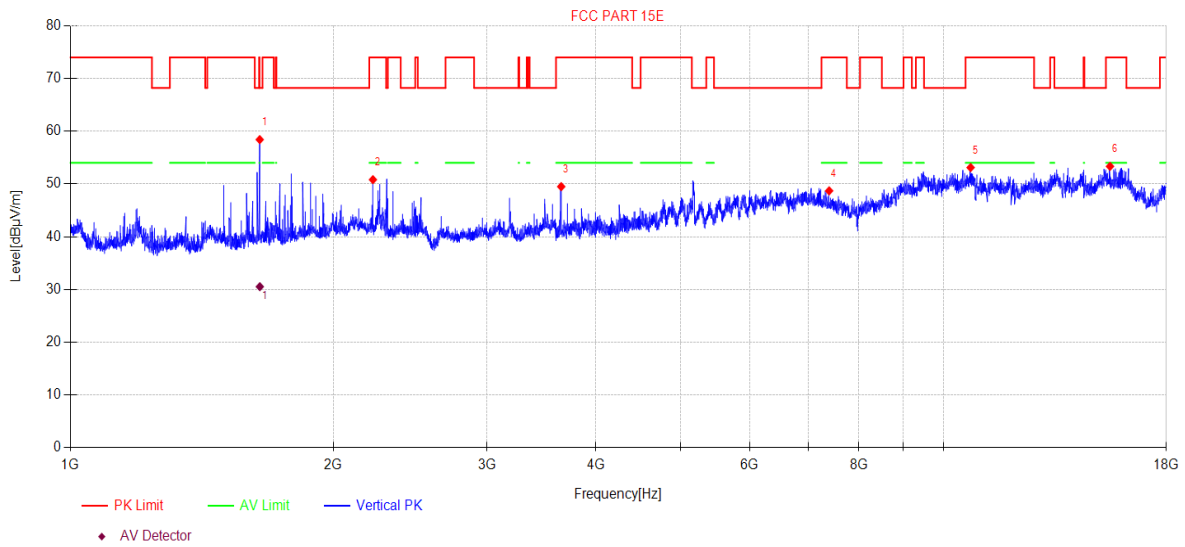
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5180MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\2
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1647.74	64.60	25.70	5.07	-36.96	58.41	68.20	9.79	PK	Vertical
2	2220.99	54.83	27.59	6.04	-37.64	50.82	74.00	23.18	PK	Vertical
3	3649.05	53.71	30.20	5.82	-40.24	49.49	74.00	24.51	PK	Vertical
4	7397.14	44.78	36.71	8.90	-41.69	48.70	74.00	25.30	PK	Vertical
5	10742.45	43.21	39.40	9.49	-38.99	53.11	74.00	20.89	PK	Vertical
6	15515.22	40.00	38.77	13.63	-39.07	53.33	74.00	20.67	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1648.18	36.72	25.70	5.07	-36.96	30.53	53.62	23.09	AV	Vertical

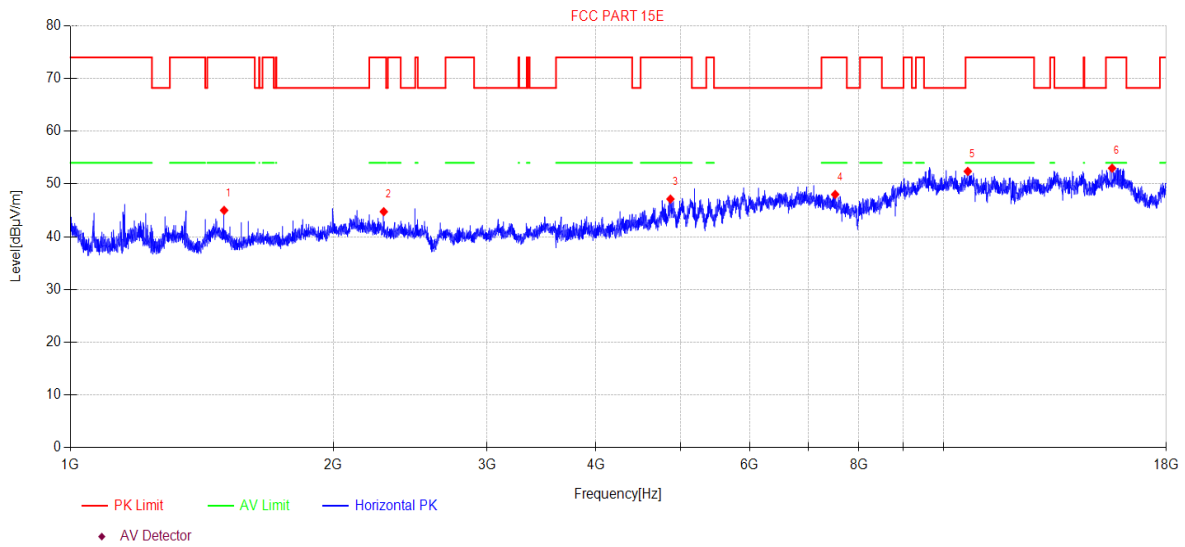
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5200MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\3
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1500.02	51.87	25.50	4.58	-36.95	45.00	74.00	29.00	PK	Horizontal
2	2285.45	49.64	26.95	5.98	-37.82	44.75	74.00	29.25	PK	Horizontal
3	4867.64	46.00	33.52	7.75	-40.13	47.14	74.00	26.86	PK	Horizontal
4	7515.66	44.65	36.47	8.88	-41.99	48.01	74.00	25.99	PK	Horizontal
5	10662.03	42.54	39.32	9.49	-38.96	52.39	74.00	21.61	PK	Horizontal
6	15600.65	39.45	38.60	14.06	-39.12	52.99	74.00	21.01	PK	Horizontal

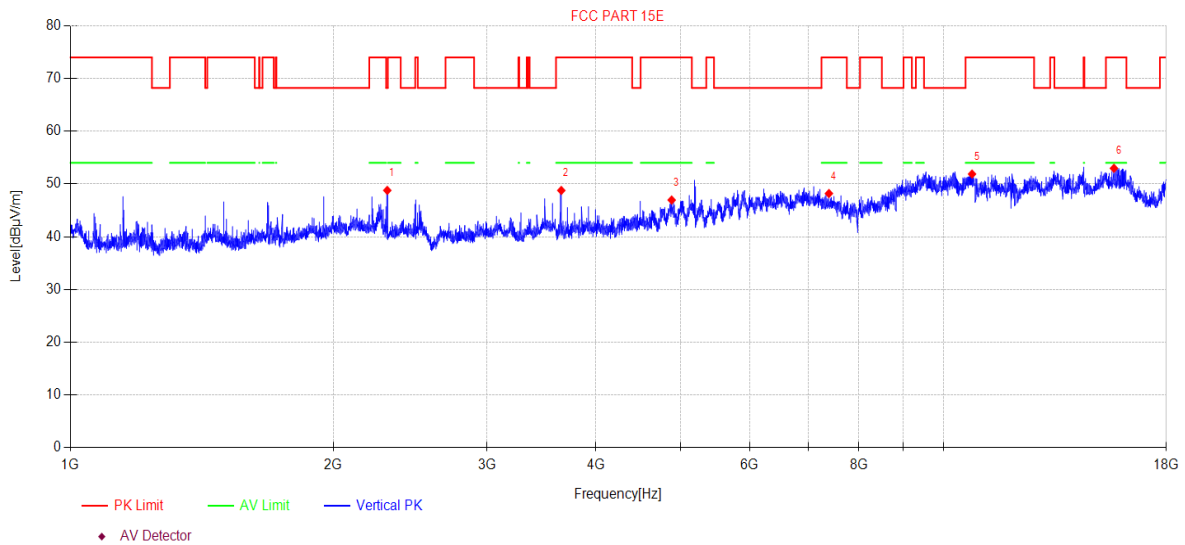
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5200MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI4
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2306.69	53.86	26.84	5.96	-37.88	48.78	68.20	19.42	PK	Vertical
2	3650.11	52.99	30.20	5.82	-40.24	48.77	74.00	25.23	PK	Vertical
3	4883.14	46.03	33.27	7.78	-40.12	46.96	74.00	27.04	PK	Vertical
4	7392.86	44.26	36.71	8.90	-41.68	48.19	74.00	25.81	PK	Vertical
5	10782.88	41.99	39.40	9.50	-39.01	51.88	74.00	22.12	PK	Vertical
6	15677.49	39.18	38.52	14.44	-39.17	52.97	74.00	21.03	PK	Vertical

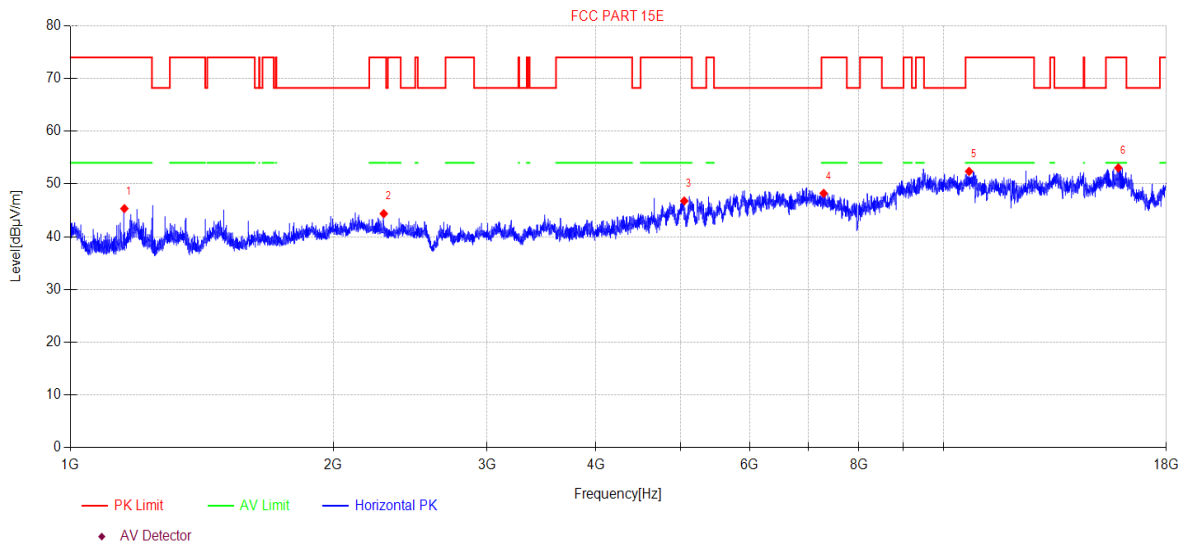
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5240MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\5
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1153.13	53.98	24.81	3.44	-36.90	45.33	74.00	28.67	PK	Horizontal
2	2285.45	49.26	26.95	5.98	-37.82	44.37	74.00	29.63	PK	Horizontal
3	5048.16	45.47	33.30	8.08	-40.07	46.78	74.00	27.22	PK	Horizontal
4	7291.02	43.86	36.88	8.91	-41.43	48.22	74.00	25.78	PK	Horizontal
5	10699.07	42.47	39.40	9.49	-38.98	52.38	74.00	21.62	PK	Horizontal
6	15859.78	38.79	38.18	15.36	-39.28	53.05	74.00	20.95	PK	Horizontal

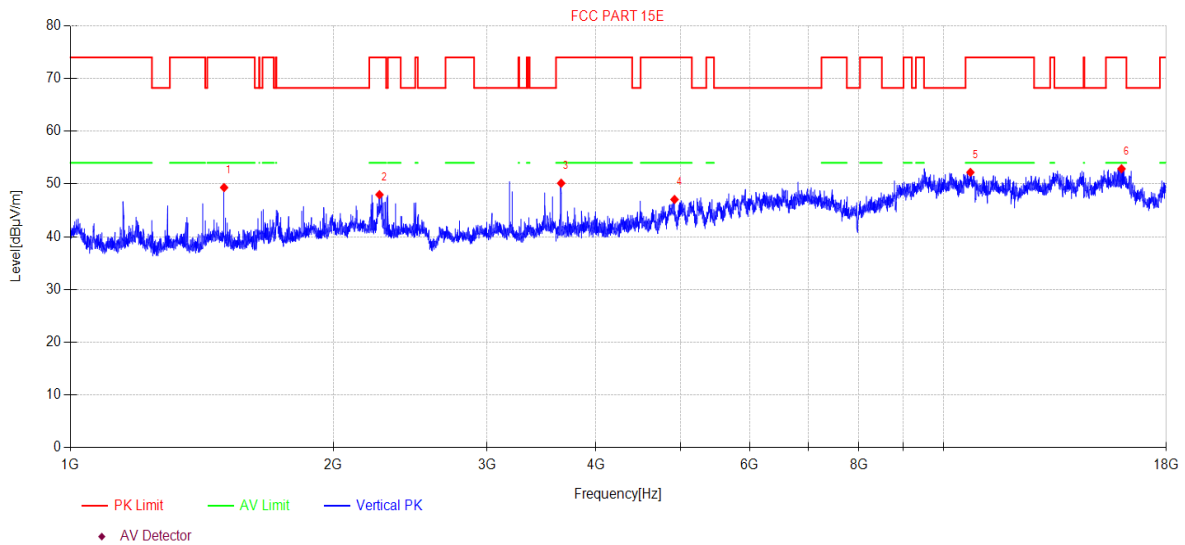
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5240MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\6
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1500.02	56.19	25.50	4.58	-36.95	49.32	74.00	24.68	PK	Vertical
2	2259.84	52.52	27.20	6.00	-37.75	47.97	74.00	26.03	PK	Vertical
3	3649.05	54.36	30.20	5.82	-40.24	50.14	74.00	23.86	PK	Vertical
4	4919.97	46.27	33.04	7.86	-40.11	47.06	74.00	26.94	PK	Vertical
5	10736.24	42.30	39.40	9.49	-38.99	52.20	74.00	21.80	PK	Vertical
6	15993.26	38.18	38.01	16.04	-39.36	52.87	74.00	21.13	PK	Vertical

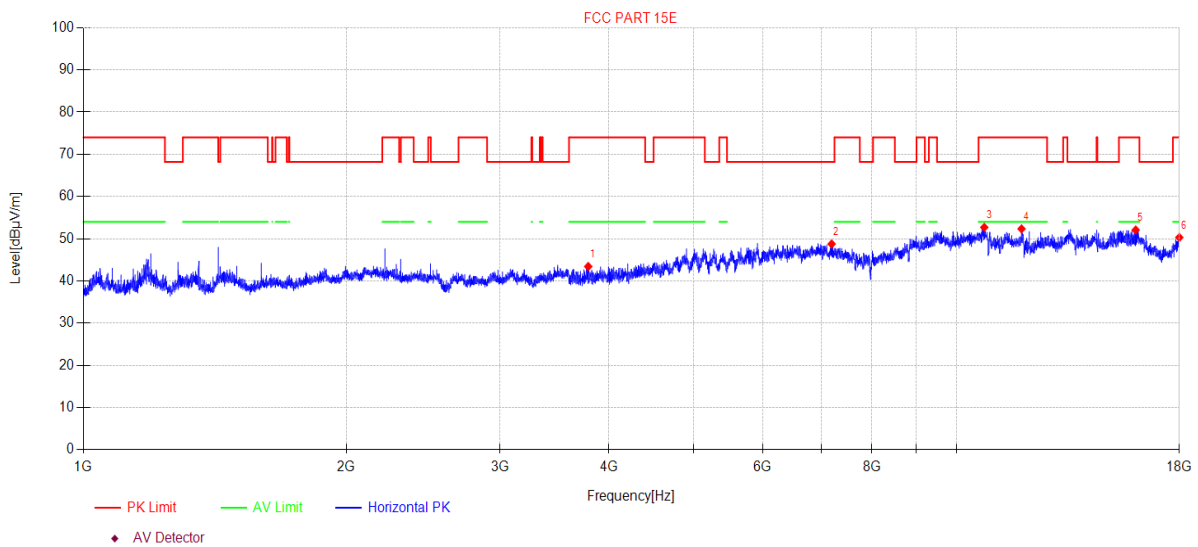
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\7
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3786.57	47.17	30.65	5.92	-40.32	43.42	74.00	30.58	PK	Horizontal
2	7194.73	44.23	36.79	8.93	-41.19	48.76	68.20	19.44	PK	Horizontal
3	10761.09	42.80	39.40	9.50	-39.00	52.70	74.00	21.30	PK	Horizontal
4	11872.20	42.72	38.90	10.22	-39.50	52.34	74.00	21.66	PK	Horizontal
5	16044.18	37.64	37.96	15.88	-39.40	52.08	74.00	21.92	PK	Horizontal
6	18000.00	37.45	42.40	12.85	-42.40	50.30	74.00	23.70	PK	Horizontal

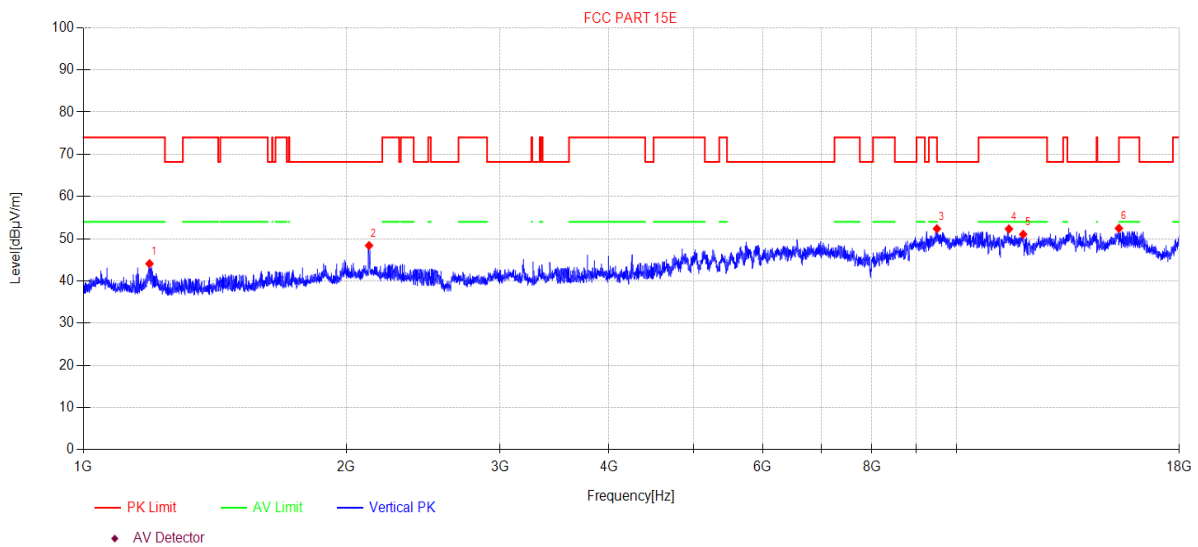
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\8
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1190.72	52.54	24.88	3.56	-36.90	44.08	74.00	29.92	PK	Vertical
2	2124.30	52.12	27.50	6.12	-37.36	48.38	68.20	19.82	PK	Vertical
3	9498.04	43.19	38.70	9.23	-38.76	52.36	74.00	21.64	PK	Vertical
4	11484.10	42.51	39.22	9.91	-39.32	52.32	74.00	21.68	PK	Vertical
5	11923.78	41.34	38.97	10.26	-39.52	51.05	74.00	22.95	PK	Vertical
6	15350.20	39.24	39.40	12.79	-38.97	52.46	74.00	21.54	PK	Vertical

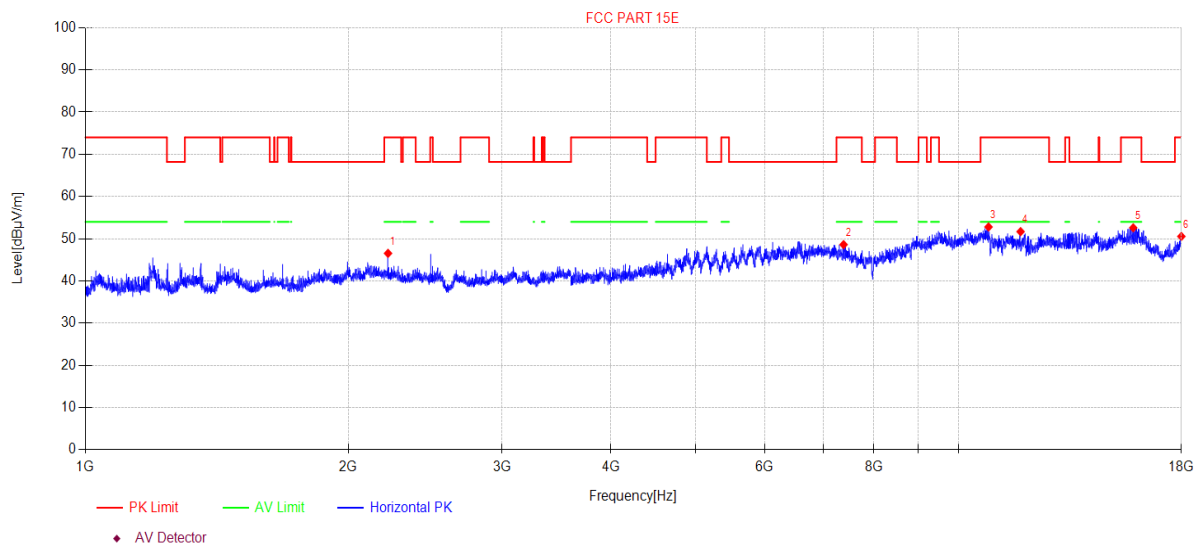
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\9
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2221.63	50.57	27.58	6.03	-37.64	46.54	74.00	27.46	PK	Horizontal
2	7386.46	44.64	36.73	8.90	-41.67	48.60	74.00	25.40	PK	Horizontal
3	10826.60	42.95	39.37	9.50	-39.03	52.79	74.00	21.21	PK	Horizontal
4	11779.92	42.08	38.92	10.14	-39.46	51.68	74.00	22.32	PK	Horizontal
5	15855.19	38.33	38.19	15.34	-39.27	52.59	74.00	21.41	PK	Horizontal
6	18000.00	37.70	42.40	12.85	-42.40	50.55	74.00	23.45	PK	Horizontal

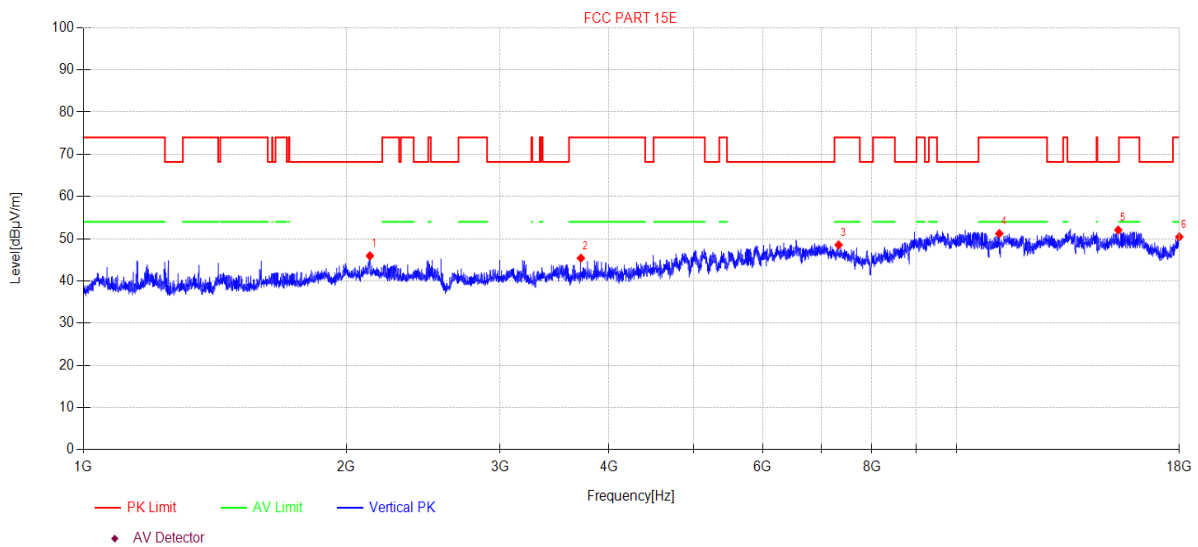
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\10
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2129.22	49.70	27.50	6.12	-37.38	45.94	68.20	22.26	PK	Vertical
2	3713.96	49.38	30.43	5.87	-40.28	45.40	74.00	28.60	PK	Vertical
3	7329.04	44.31	36.84	8.91	-41.52	48.54	74.00	25.46	PK	Vertical
4	11195.72	41.51	39.20	9.68	-39.18	51.21	74.00	22.79	PK	Vertical
5	15323.60	38.73	39.61	12.66	-38.95	52.05	68.20	16.15	PK	Vertical
6	18000.00	37.59	42.40	12.85	-42.40	50.44	74.00	23.56	PK	Vertical

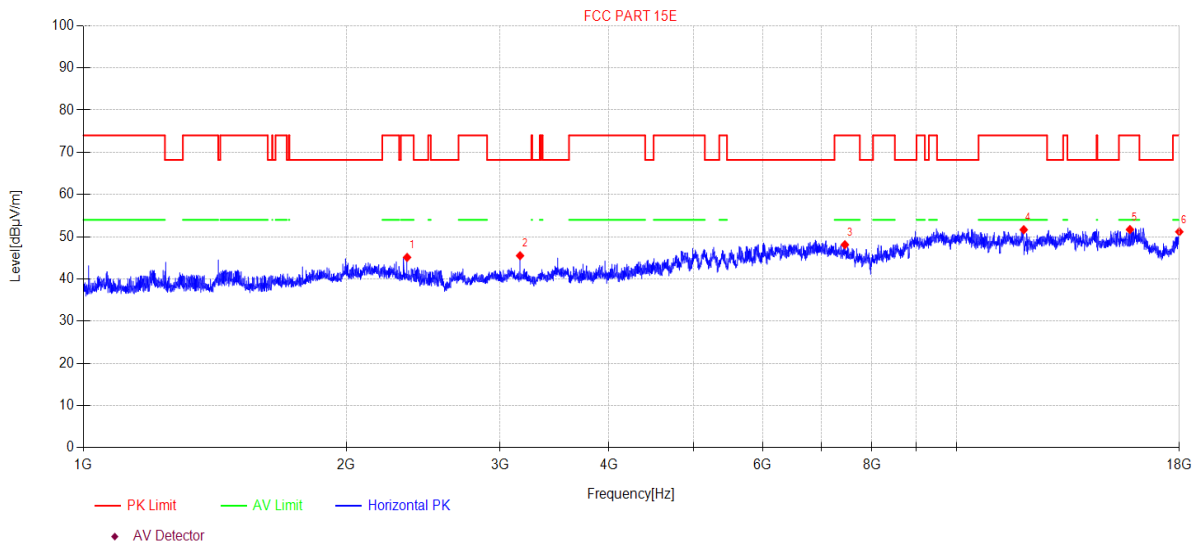
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\11
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2348.39	50.09	27.09	5.92	-38.00	45.10	74.00	28.90	PK	Horizontal
2	3163.56	50.84	29.14	5.47	-39.94	45.51	68.20	22.69	PK	Horizontal
3	7450.78	44.45	36.60	8.89	-41.83	48.11	74.00	25.89	PK	Horizontal
4	11941.03	41.90	39.02	10.27	-39.53	51.66	74.00	22.34	PK	Horizontal
5	15800.30	37.58	38.30	15.06	-39.24	51.70	74.00	22.30	PK	Horizontal
6	18000.00	38.32	42.40	12.85	-42.40	51.17	74.00	22.83	PK	Horizontal

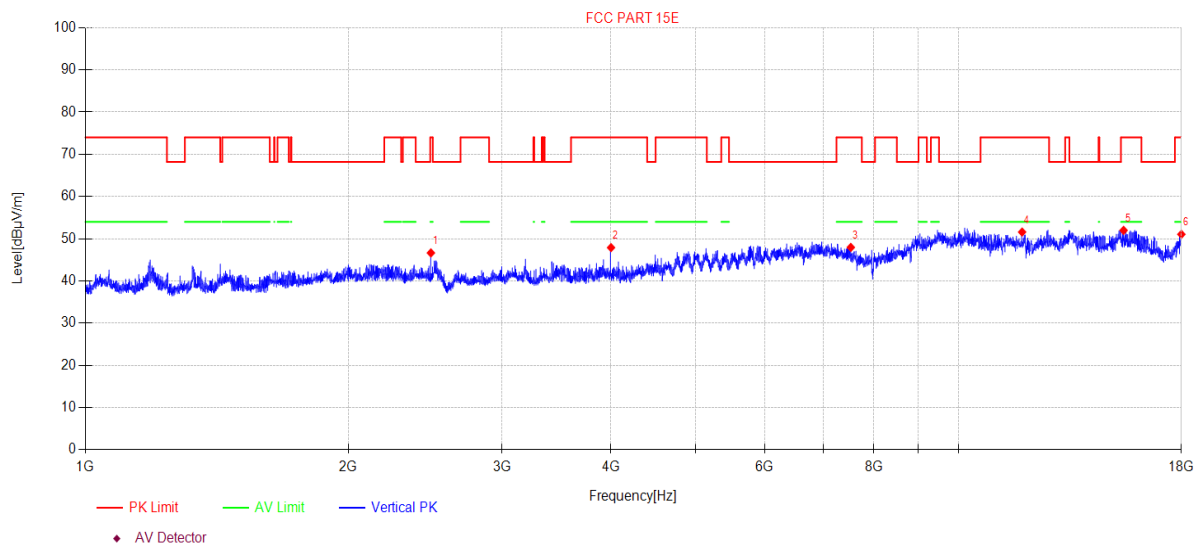
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\12
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2487.41	51.68	27.55	5.80	-38.39	46.64	74.00	27.36	PK	Vertical
2	4000.31	51.36	30.90	6.08	-40.45	47.89	74.00	26.11	PK	Vertical
3	7528.70	44.65	36.44	8.88	-42.02	47.95	74.00	26.05	PK	Vertical
4	11827.68	41.98	38.90	10.18	-39.48	51.58	74.00	22.42	PK	Vertical
5	15457.04	38.79	38.89	13.33	-39.03	51.98	74.00	22.02	PK	Vertical
6	18000.00	38.20	42.40	12.85	-42.40	51.05	74.00	22.95	PK	Vertical

Note:

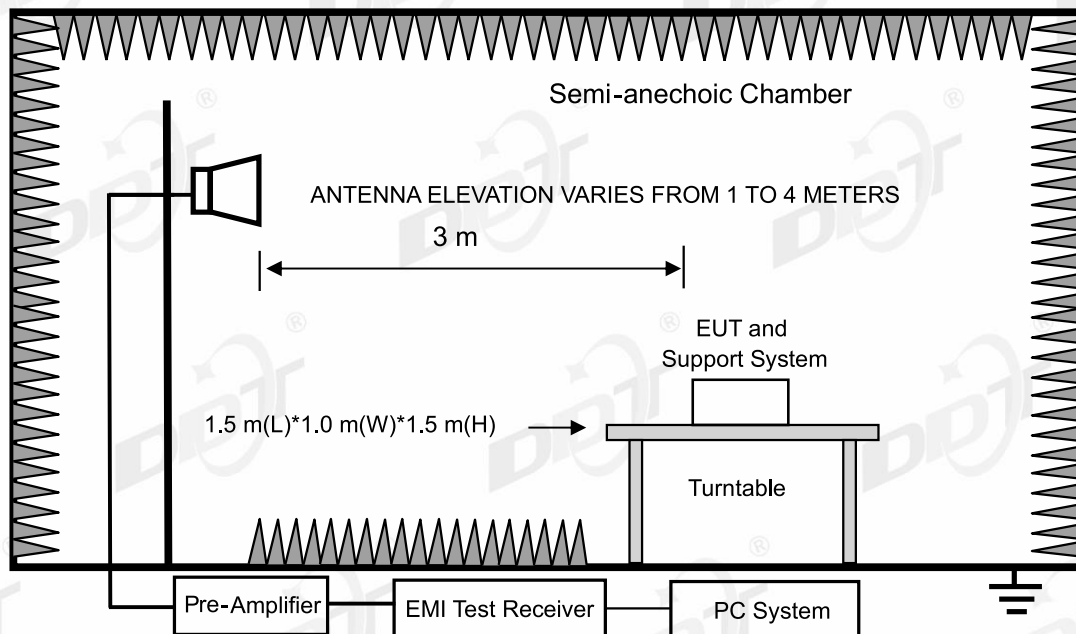
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☒Radiation 3#Chamber					
EMI TEST RECEIVER	R&S	ESU26	100472	2024/04/22	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA 9120 D	02468	2024/09/17	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	2024/07/14	1 Year
RF Cable	Yuhu	JCTB810-NJ-NJ-9M+ ZT26S-SMAJ-SMAJ-1M	21123964	2024/04/22	1 Year
Test Software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A

13.2. Block diagram of test setup



13.3. Limit

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating solely in the 5.725-5.850 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

13.4. Test Procedure

Same with Emissions in Restricted Frequency Bands except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

13.5. Test result

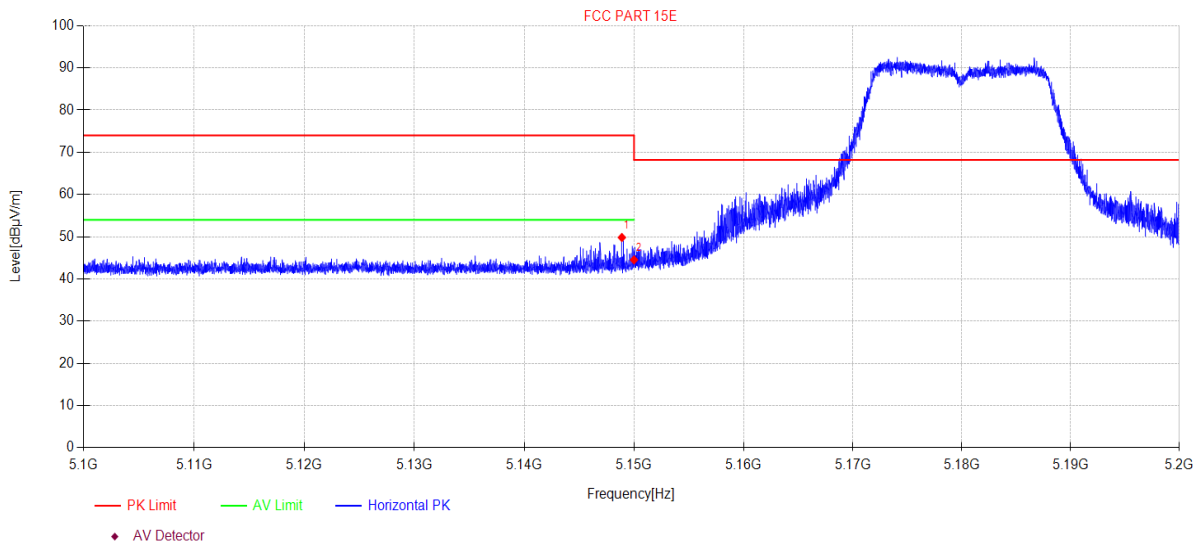
Pass. (See below detailed test result)

Note: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz. However, out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5180MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\7
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.89	50.90	33.40	5.58	-40.06	49.82	74.00	24.18	PK	Horizontal
2	5150.00	45.59	33.40	5.59	-40.06	44.52	68.20	23.68	PK	Horizontal

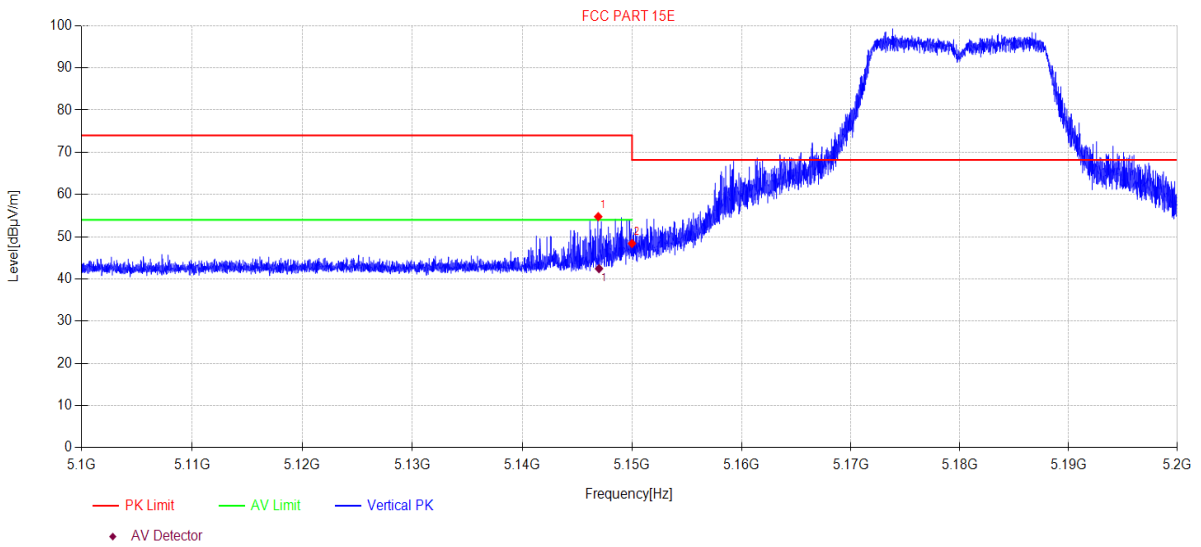
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5180MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\8
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.92	55.83	33.40	5.58	-40.06	54.75	74.00	19.25	PK	Vertical
2	5150.00	49.47	33.40	5.59	-40.06	48.40	68.20	19.80	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.99	40.89	33.40	8.21	-40.06	42.44	54.00	11.56	AV	Vertical

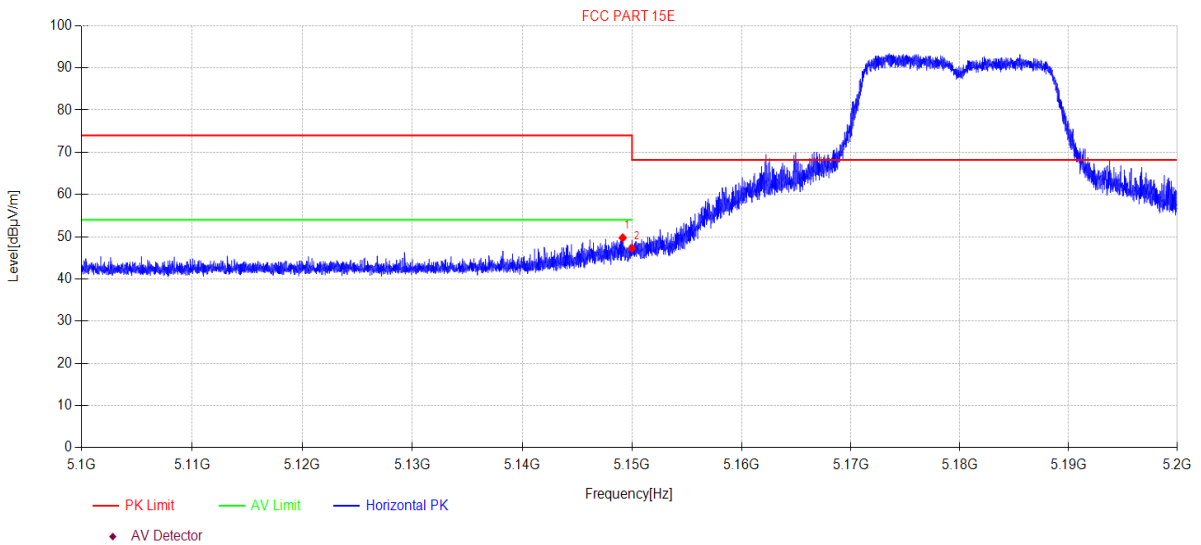
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5180MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\9
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5149.15	50.81	33.40	5.58	-40.06	49.73	74.00	24.27	PK	Horizontal
2	5150.00	48.34	33.40	5.59	-40.06	47.27	68.20	20.93	PK	Horizontal

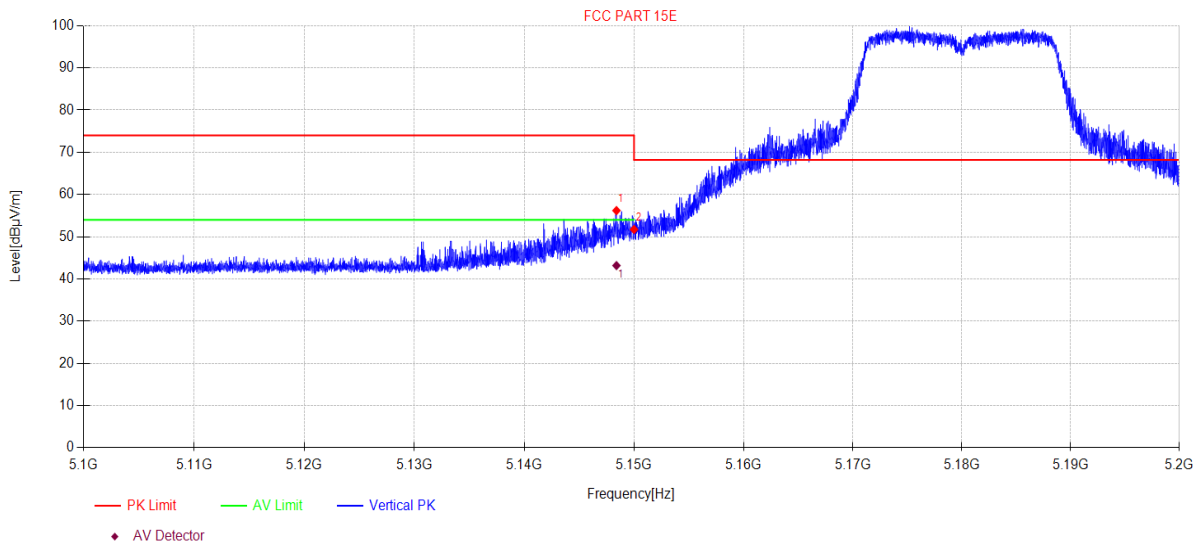
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5180MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\10
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.40	57.27	33.40	5.58	-40.06	56.19	74.00	17.81	PK	Vertical
2	5150.00	52.79	33.40	5.59	-40.06	51.72	68.20	16.48	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.40	44.25	33.40	5.58	-40.06	43.17	54.00	10.83	AV	Vertical

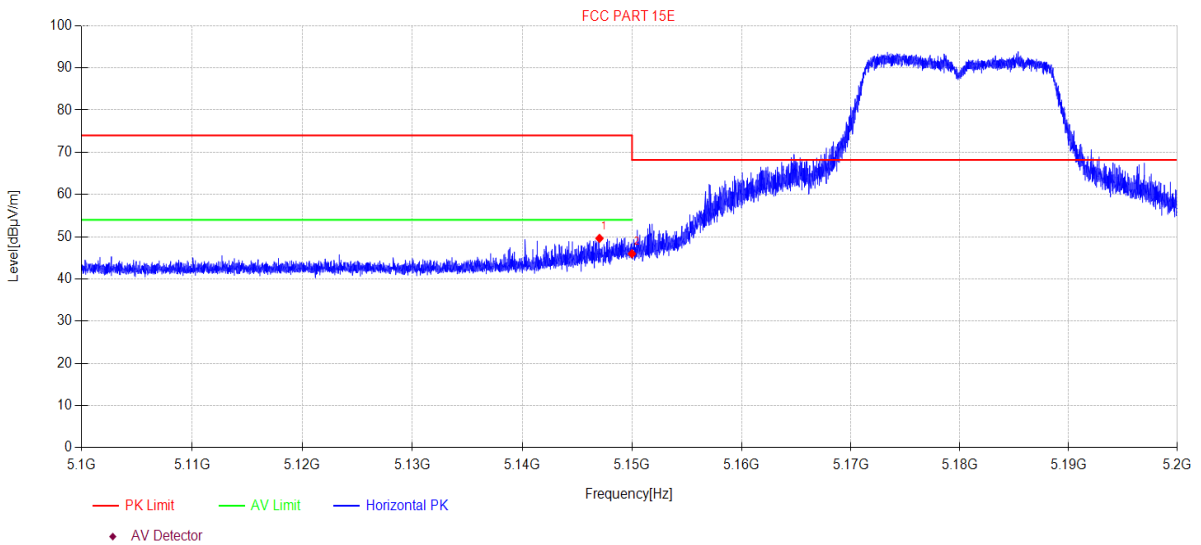
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5180MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI11
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5147.03	50.69	33.40	5.58	-40.06	49.61	74.00	24.39	PK	Horizontal
2	5150.00	47.05	33.40	5.59	-40.06	45.98	68.20	22.22	PK	Horizontal

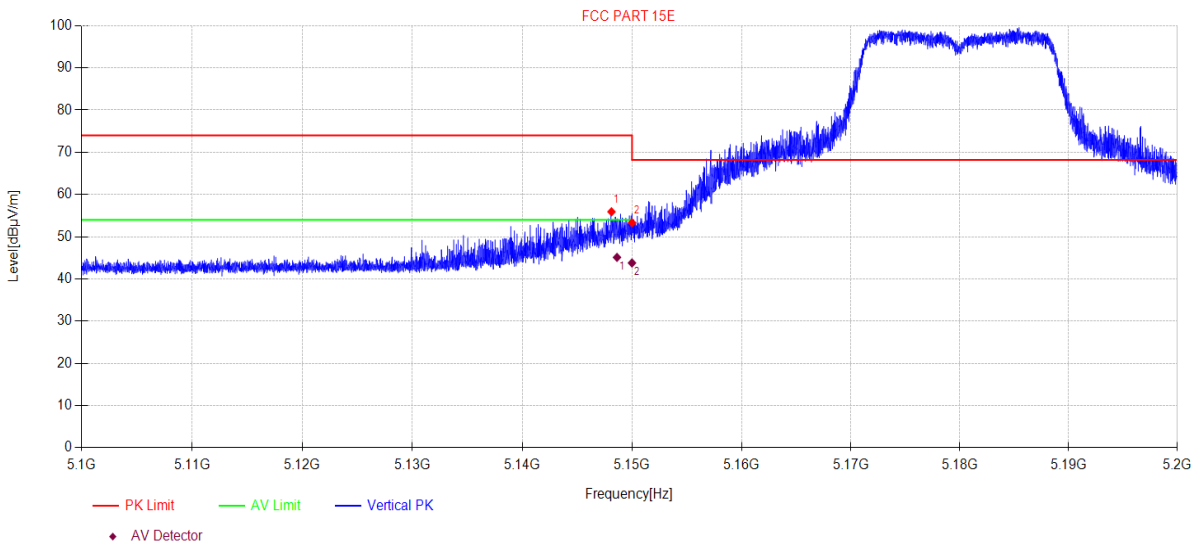
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5180MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\12
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.13	56.99	33.40	5.58	-40.06	55.91	74.00	18.09	PK	Vertical
2	5150.00	54.37	33.40	5.59	-40.06	53.30	68.20	14.90	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.63	43.56	33.40	8.21	-40.06	45.11	54.00	8.89	AV	Vertical
2	5150.00	44.86	33.40	5.59	-40.06	43.79	54.00	10.21	AV	Vertical

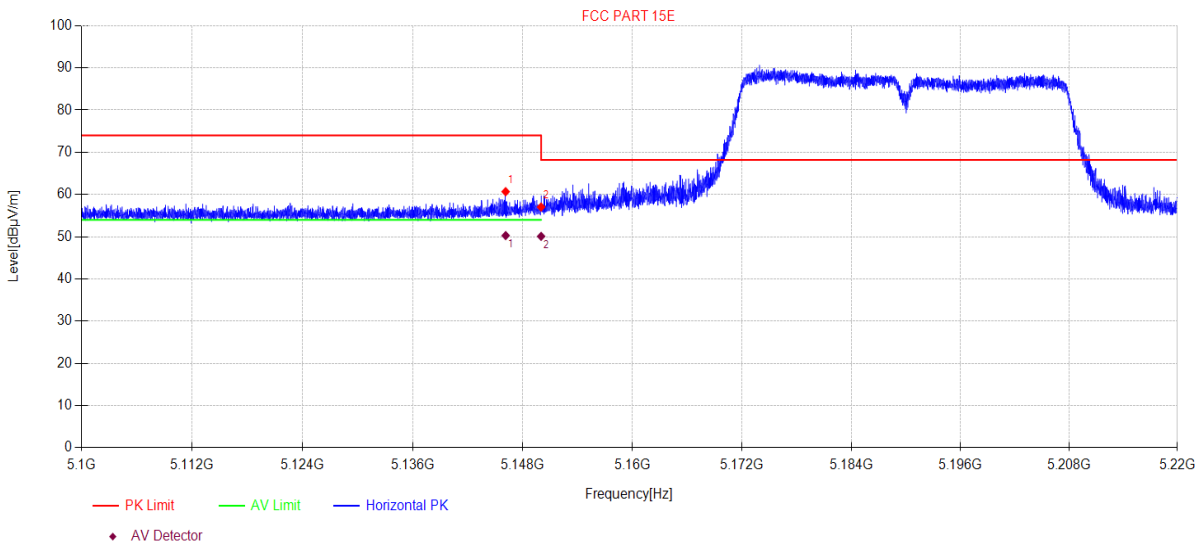
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\13
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.13	51.76	33.40	5.58	-30.06	60.68	74.00	13.32	PK	Horizontal
2	5150.00	48.11	33.40	5.59	-30.06	57.04	68.20	11.16	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.13	41.36	33.40	5.58	-30.06	50.28	54.00	3.72	AV	Horizontal
2	5150.00	41.16	33.40	5.59	-30.06	50.09	54.00	3.91	AV	Horizontal

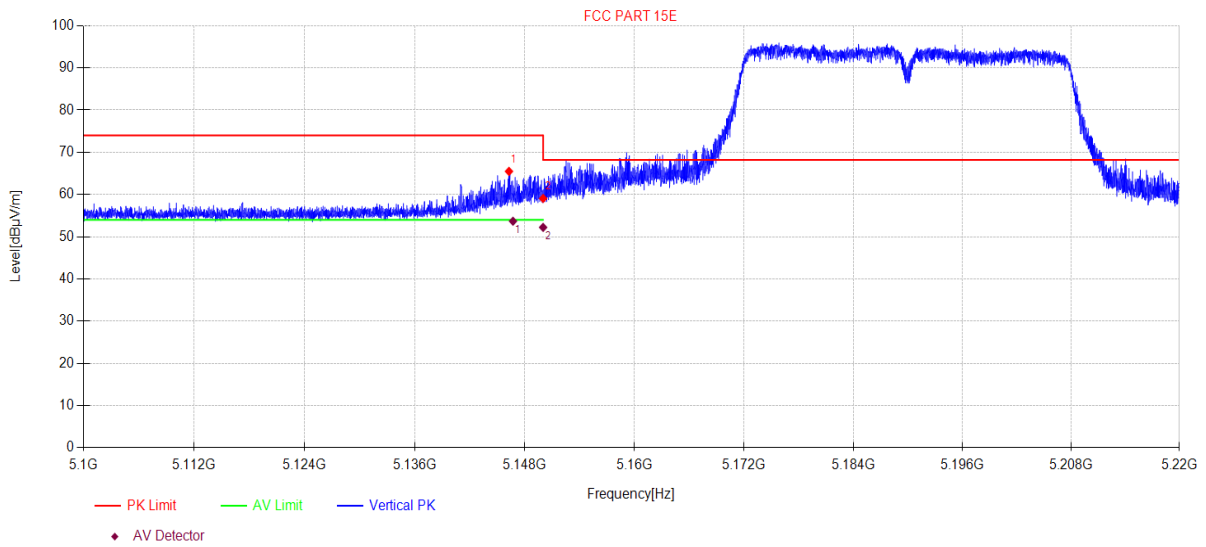
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\14
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.27	56.57	33.40	5.58	-30.06	65.49	74.00	8.51	PK	Vertical
2	5150.00	50.13	33.40	5.59	-30.06	59.06	68.20	9.14	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.71	42.13	33.40	8.21	-30.06	53.68	54.00	0.32	AV	Vertical
2	5150.00	43.29	33.40	5.59	-30.06	52.22	54.00	1.78	AV	Vertical

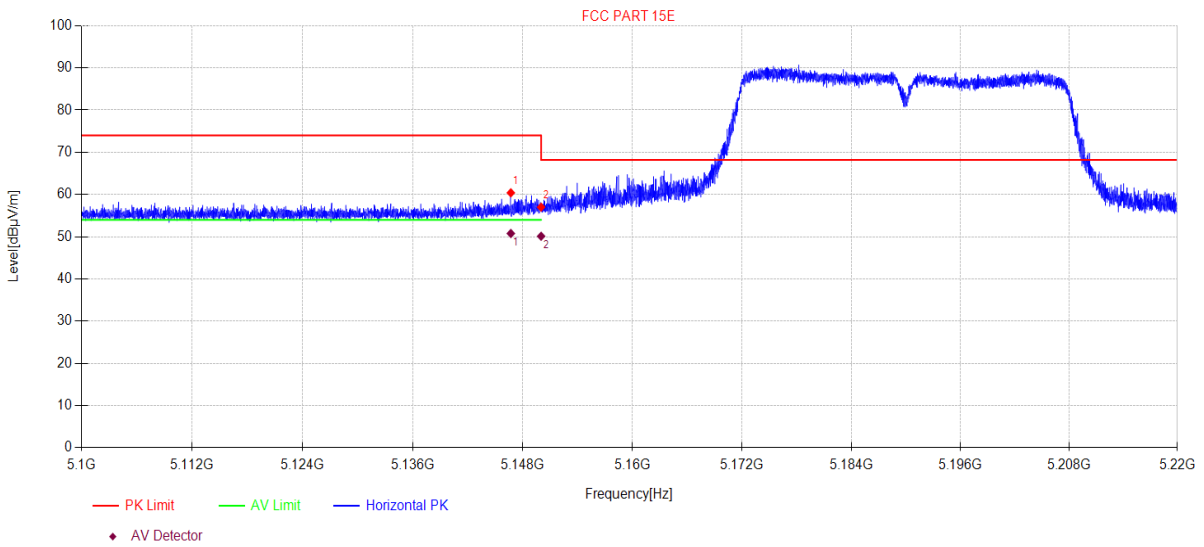
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\15
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.69	51.49	33.40	5.58	-30.06	60.41	74.00	13.59	PK	Horizontal
2	5150.00	48.08	33.40	5.59	-30.06	57.01	68.20	11.19	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.69	41.85	33.40	5.58	-30.06	50.77	54.00	3.23	AV	Horizontal
2	5150.00	41.19	33.40	5.59	-30.06	50.12	54.00	3.88	AV	Horizontal

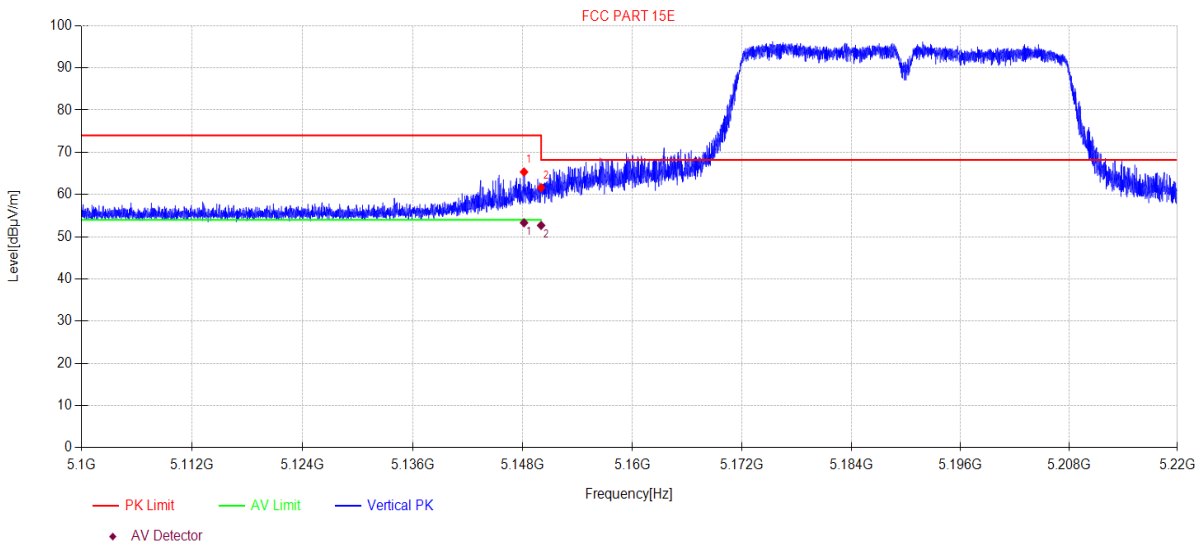
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\16
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.13	56.42	33.40	5.58	-30.06	65.34	74.00	8.66	PK	Vertical
2	5150.00	52.69	33.40	5.59	-30.06	61.62	68.20	6.58	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.13	44.39	33.40	5.58	-30.06	53.31	54.00	0.69	AV	Vertical
2	5150.00	43.75	33.40	5.59	-30.06	52.68	54.00	1.32	AV	Vertical

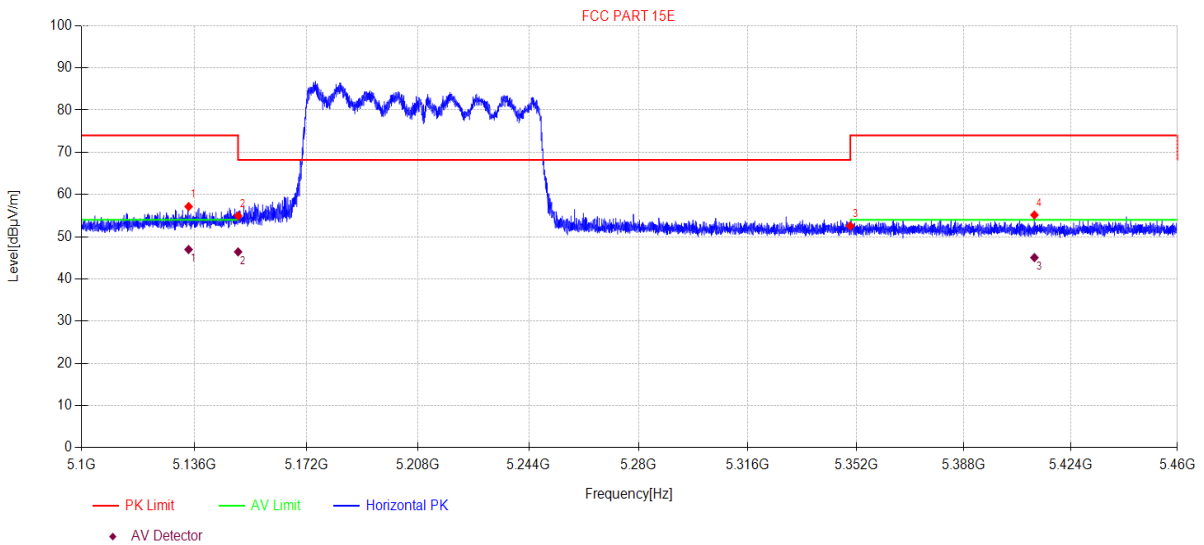
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC80 5210MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\17
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5134.16	48.23	33.40	5.58	-30.06	57.15	74.00	16.85	PK	Horizontal
2	5150.00	46.03	33.40	5.59	-30.06	54.96	68.20	13.24	PK	Horizontal
3	5350.00	43.80	33.10	5.69	-30.03	52.56	74.00	21.44	PK	Horizontal
4	5411.65	46.38	33.08	5.72	-30.03	55.15	74.00	18.85	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5134.16	38.05	33.40	5.58	-30.06	46.97	54.00	7.03	AV	Horizontal
2	5150.00	37.49	33.40	5.59	-30.06	46.42	54.00	7.58	AV	Horizontal
3	5411.65	36.29	33.08	5.72	-30.03	45.06	54.00	8.94	AV	Horizontal

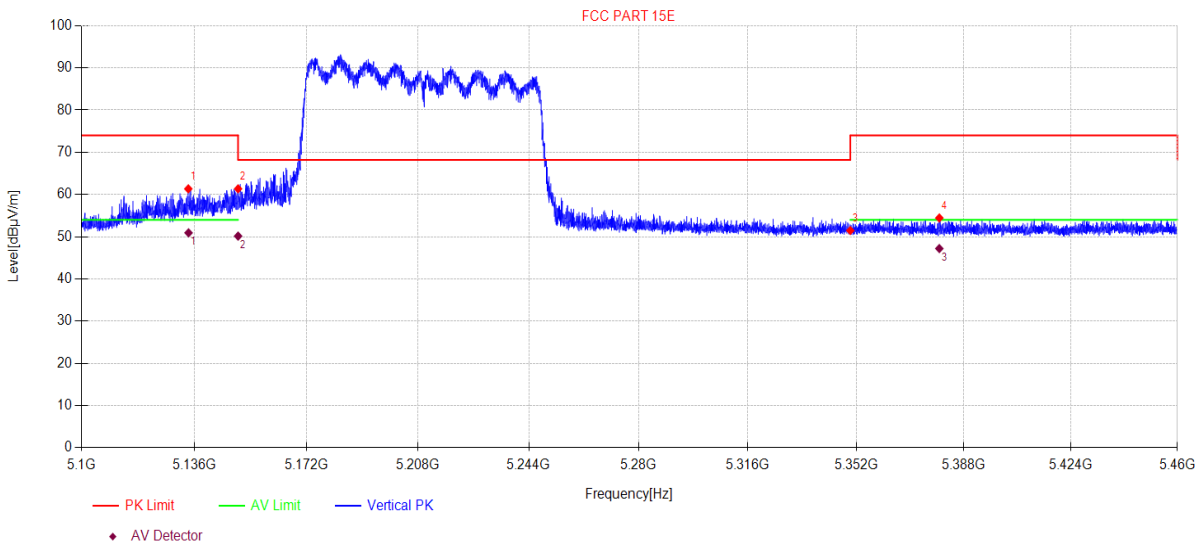
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC80 5210MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\18
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5134.06	52.43	33.40	5.58	-30.06	61.35	74.00	12.65	PK	Vertical
2	5150.00	52.43	33.40	5.59	-30.06	61.36	68.20	6.84	PK	Vertical
3	5350.00	42.71	33.10	5.69	-30.03	51.47	74.00	22.53	PK	Vertical
4	5379.72	45.68	33.10	5.70	-30.03	54.45	74.00	19.55	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5134.15	39.39	33.40	8.19	-30.06	50.92	54.00	3.08	AV	Vertical
2	5150.00	41.22	33.40	5.59	-30.06	50.15	54.00	3.85	AV	Vertical
3	5379.72	38.43	33.10	5.70	-30.03	47.20	54.00	6.80	AV	Vertical

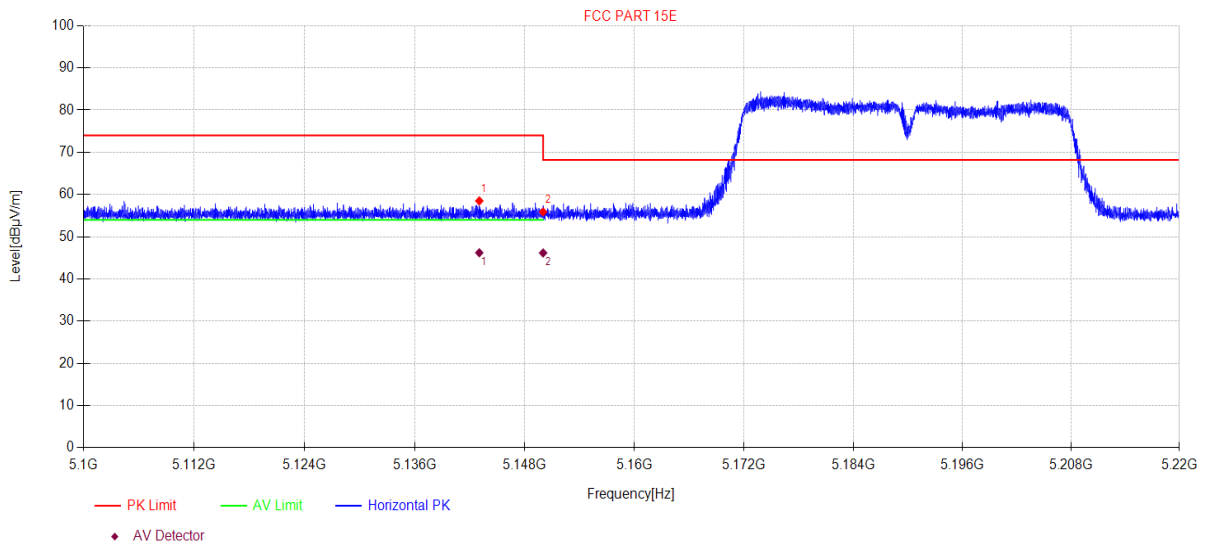
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\19
Memo: Sample Number:S23101322-02 Power Setting:40

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5143.03	49.57	33.40	5.58	-30.06	58.49	74.00	15.51	PK	Horizontal
2	5150.00	46.94	33.40	5.59	-30.06	55.87	68.20	12.33	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5143.03	37.29	33.40	5.58	-30.06	46.21	54.00	7.79	AV	Horizontal
2	5150.00	37.23	33.40	5.59	-30.06	46.16	54.00	7.84	AV	Horizontal

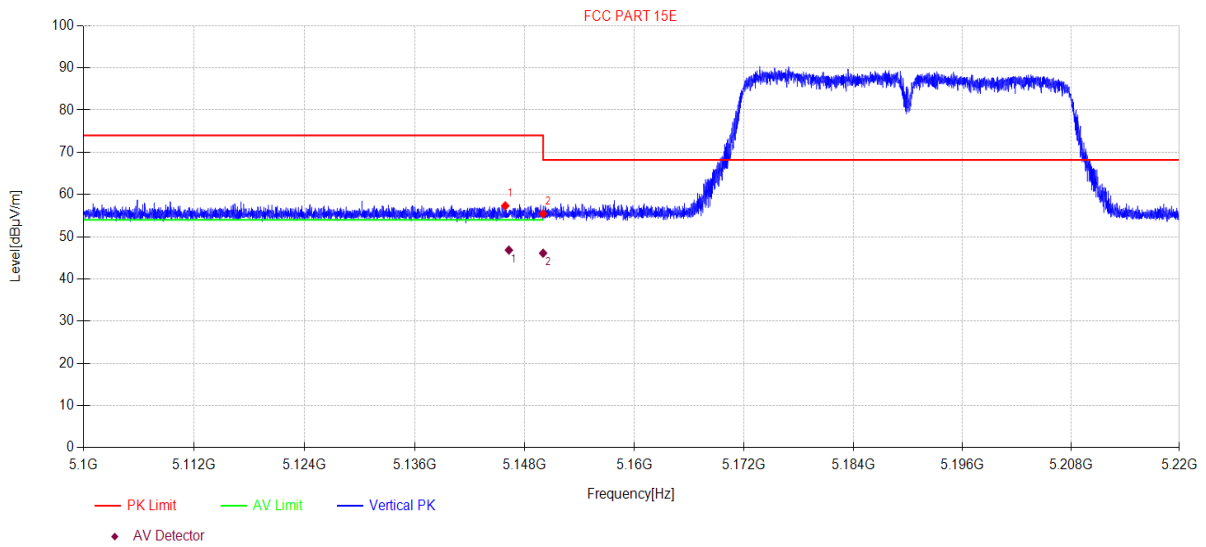
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\20
Memo: Sample Number:S23101322-02 Power Setting:40

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5145.86	48.41	33.40	5.58	-30.06	57.33	74.00	16.67	PK	Vertical
2	5150.00	46.51	33.40	5.59	-30.06	55.44	68.20	12.76	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5146.26	35.28	33.40	8.21	-30.06	46.83	54.00	7.17	AV	Vertical
2	5150.00	37.18	33.40	5.59	-30.06	46.11	54.00	7.89	AV	Vertical

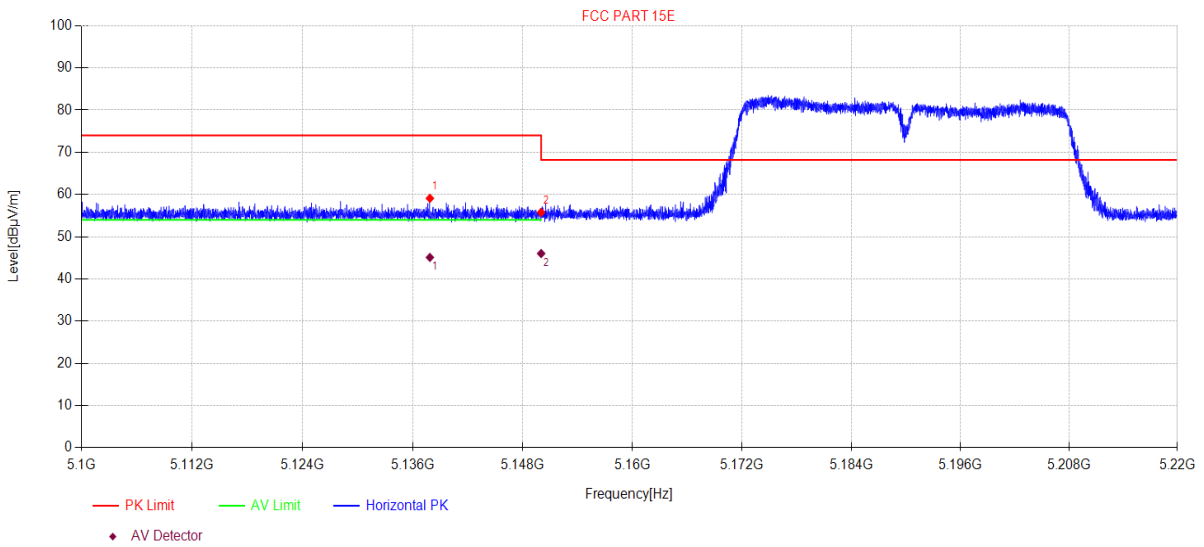
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\21
Memo: Sample Number:S23101322-02 Power Setting:40

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5137.86	50.18	33.40	5.58	-30.06	59.10	74.00	14.90	PK	Horizontal
2	5150.00	46.83	33.40	5.59	-30.06	55.76	68.20	12.44	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5137.86	36.17	33.40	5.58	-30.06	45.09	54.00	8.91	AV	Horizontal
2	5150.00	37.09	33.40	5.59	-30.06	46.02	54.00	7.98	AV	Horizontal

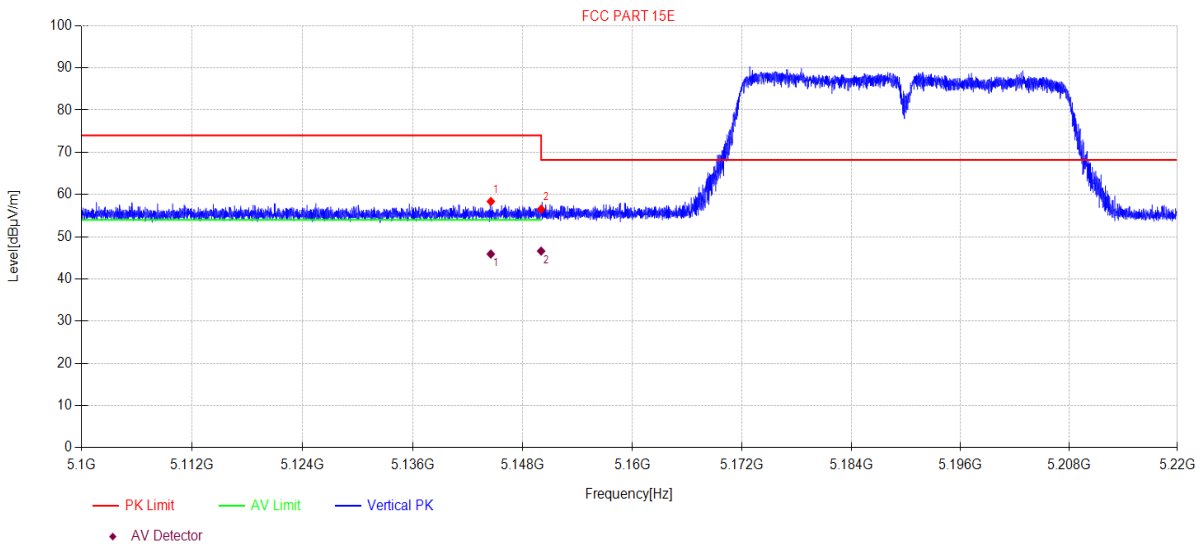
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5190MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5GWIFI\22
Memo: Sample Number:S23101322-02 Power Setting:40

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5144.51	49.43	33.40	5.58	-30.06	58.35	74.00	15.65	PK	Vertical
2	5150.00	47.60	33.40	5.59	-30.06	56.53	68.20	11.67	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5144.51	36.98	33.40	5.58	-30.06	45.90	54.00	8.10	AV	Vertical
2	5150.00	37.66	33.40	5.59	-30.06	46.59	54.00	7.41	AV	Vertical

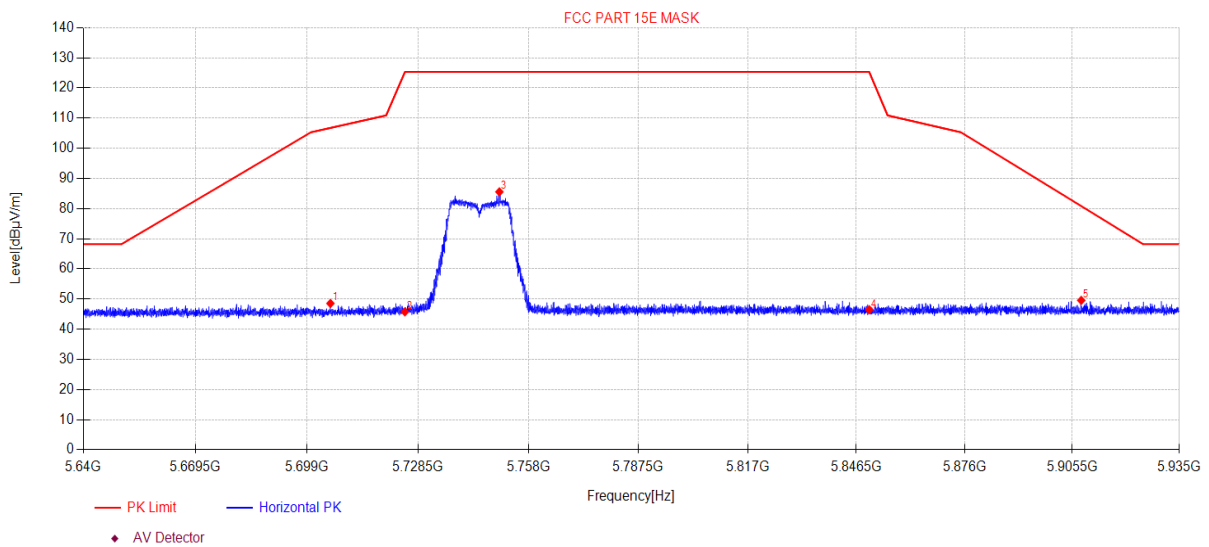
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\13
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5705.20	49.04	33.63	5.86	-39.99	48.54	106.75	58.21	PK	Horizontal
2	5725.00	46.11	33.75	5.87	-39.99	45.74	125.30	79.56	PK	Horizontal
3	5750.21	85.73	33.90	5.89	-39.98	85.54	125.30	39.76	PK	Horizontal
4	5850.00	46.48	34.00	5.94	-39.97	46.45	125.27	78.82	PK	Horizontal
5	5907.98	49.43	34.12	5.96	-39.96	49.55	80.83	31.28	PK	Horizontal

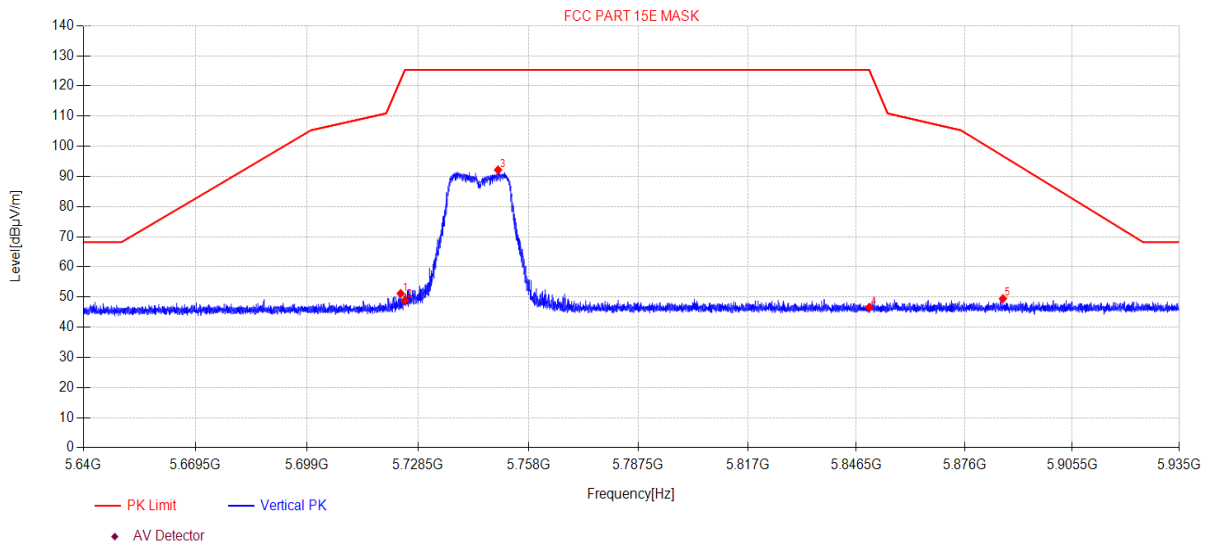
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\14
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.87	51.54	33.74	5.87	-39.99	51.16	122.04	70.88	PK	Vertical
2	5725.00	49.21	33.75	5.87	-39.99	48.84	125.30	76.46	PK	Vertical
3	5749.86	92.35	33.90	5.88	-39.98	92.15	125.30	33.15	PK	Vertical
4	5850.00	46.60	34.00	5.94	-39.97	46.57	125.27	78.70	PK	Vertical
5	5886.50	49.41	34.07	5.95	-39.96	49.47	96.77	47.30	PK	Vertical

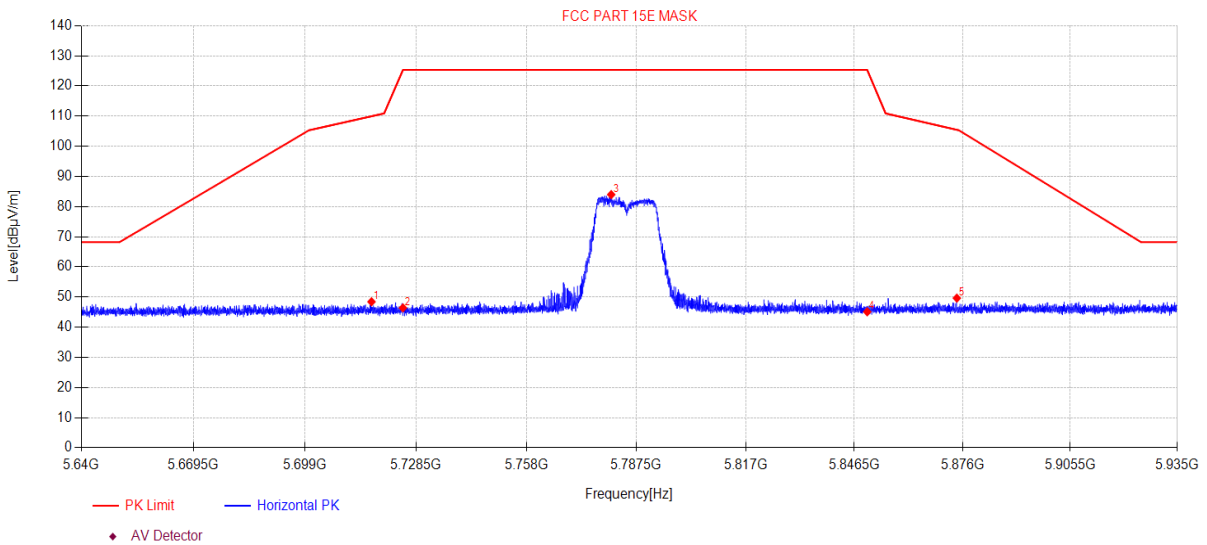
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\15
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5716.64	48.84	33.70	5.87	-39.99	48.42	109.96	61.54	PK	Horizontal
2	5725.00	46.77	33.75	5.87	-39.99	46.40	125.30	78.90	PK	Horizontal
3	5780.74	83.97	34.08	5.90	-39.98	83.97	125.30	41.33	PK	Horizontal
4	5850.00	45.13	34.00	5.94	-39.97	45.10	125.27	80.17	PK	Horizontal
5	5874.44	49.61	34.05	5.95	-39.97	49.64	105.46	55.82	PK	Horizontal

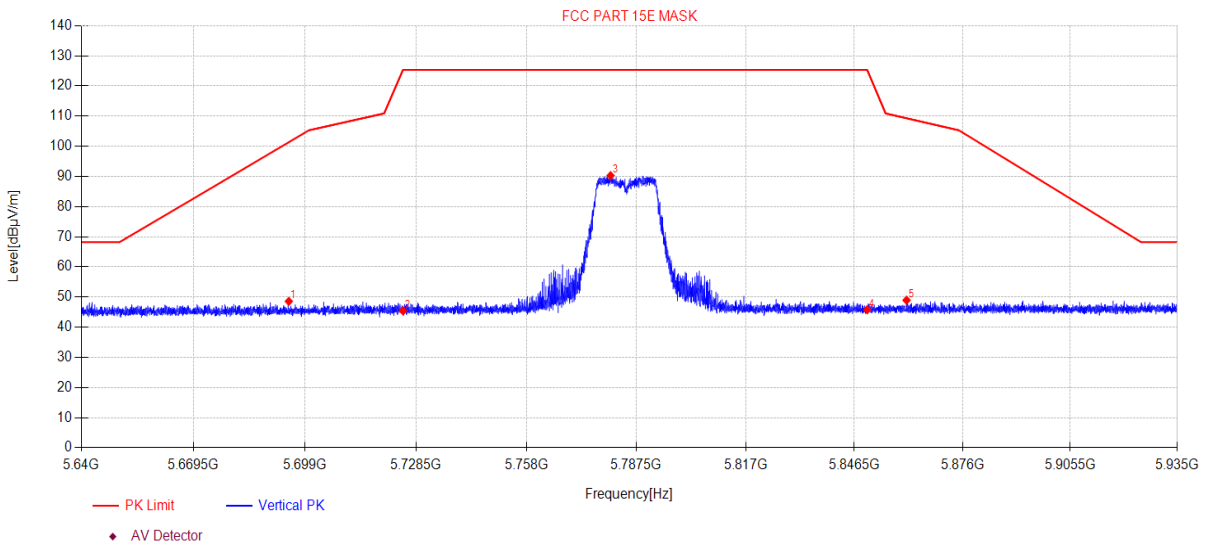
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\16
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5694.69	49.12	33.58	5.86	-39.99	48.57	101.36	52.79	PK	Vertical
2	5725.00	45.84	33.75	5.87	-39.99	45.47	125.30	79.83	PK	Vertical
3	5780.57	90.26	34.08	5.90	-39.98	90.26	125.30	35.04	PK	Vertical
4	5850.00	45.83	34.00	5.94	-39.97	45.80	125.27	79.47	PK	Vertical
5	5860.72	48.96	34.02	5.94	-39.97	48.95	109.30	60.35	PK	Vertical

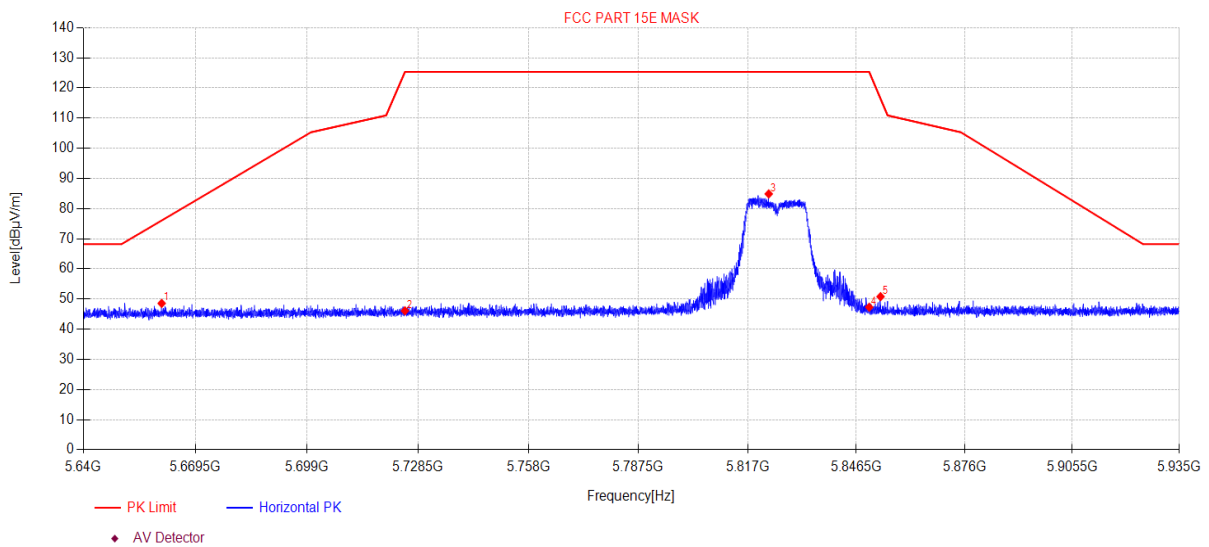
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\17
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5660.59	49.27	33.44	5.84	-39.99	48.56	76.06	27.50	PK	Horizontal
2	5725.00	46.47	33.75	5.87	-39.99	46.10	125.30	79.20	PK	Horizontal
3	5822.72	84.80	34.11	5.92	-39.97	84.86	125.30	40.44	PK	Horizontal
4	5850.00	47.32	34.00	5.94	-39.97	47.29	125.27	77.98	PK	Horizontal
5	5853.08	50.81	34.01	5.94	-39.97	50.79	116.43	65.64	PK	Horizontal

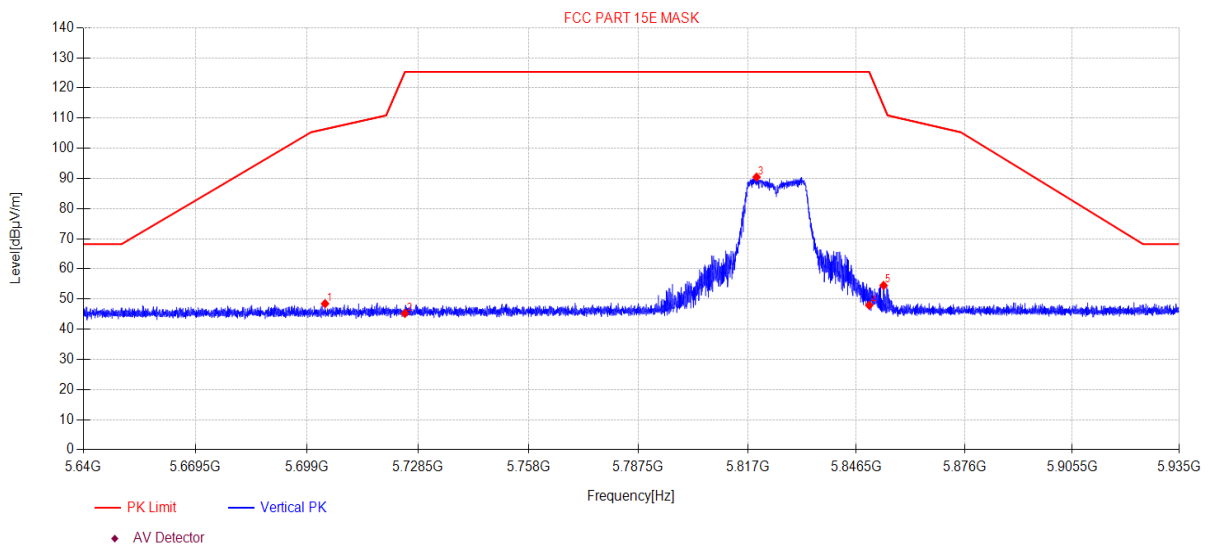
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11A 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\18
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5703.78	48.97	33.62	5.86	-39.99	48.46	106.36	57.90	PK	Vertical
2	5725.00	45.59	33.75	5.87	-39.99	45.22	125.30	80.08	PK	Vertical
3	5819.42	90.38	34.12	5.92	-39.97	90.45	125.30	34.85	PK	Vertical
4	5850.00	47.97	34.00	5.94	-39.97	47.94	125.27	77.33	PK	Vertical
5	5853.90	54.53	34.01	5.94	-39.97	54.51	114.06	59.55	PK	Vertical

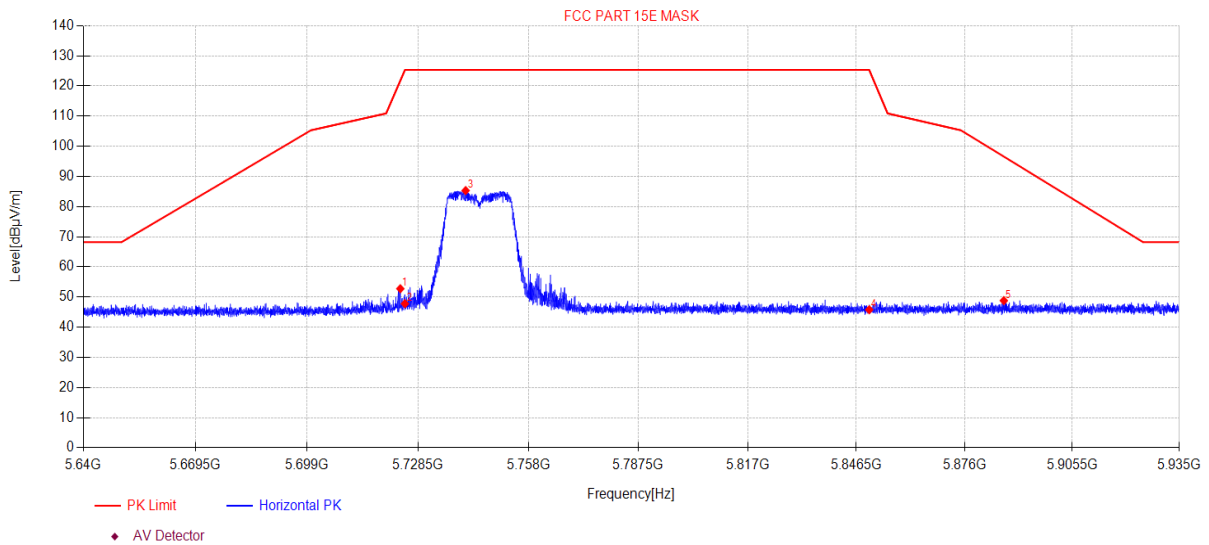
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\19
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.78	53.14	33.74	5.87	-39.99	52.76	121.79	69.03	PK	Horizontal
2	5725.00	48.16	33.75	5.87	-39.99	47.79	125.30	77.51	PK	Horizontal
3	5741.19	85.56	33.85	5.88	-39.98	85.31	125.30	39.99	PK	Horizontal
4	5850.00	45.83	34.00	5.94	-39.97	45.80	125.27	79.47	PK	Horizontal
5	5886.74	48.74	34.07	5.95	-39.96	48.80	96.59	47.79	PK	Horizontal

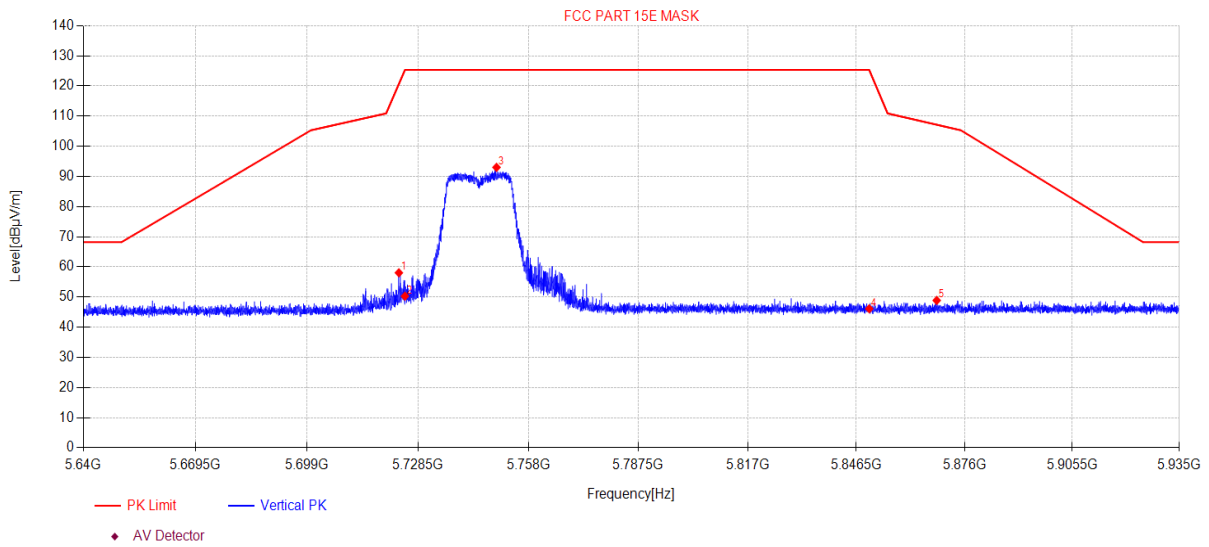
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\20
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.40	58.43	33.74	5.87	-39.99	58.05	120.68	62.63	PK	Vertical
2	5725.00	50.66	33.75	5.87	-39.99	50.29	125.30	75.01	PK	Vertical
3	5749.45	93.21	33.90	5.88	-39.98	93.01	125.30	32.29	PK	Vertical
4	5850.00	46.14	34.00	5.94	-39.97	46.11	125.27	79.16	PK	Vertical
5	5868.39	48.86	34.04	5.94	-39.97	48.87	107.15	58.28	PK	Vertical

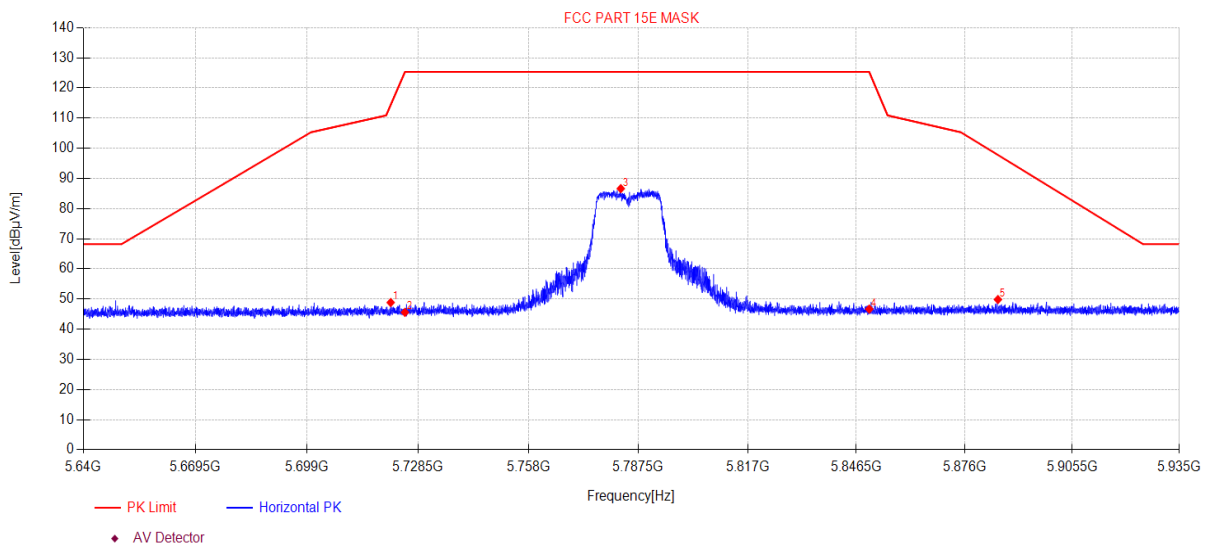
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\21
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5721.21	49.23	33.73	5.87	-39.99	48.84	114.39	65.55	PK	Horizontal
2	5725.00	45.95	33.75	5.87	-39.99	45.58	125.30	79.72	PK	Horizontal
3	5782.78	86.60	34.10	5.90	-39.98	86.62	125.30	38.68	PK	Horizontal
4	5850.00	46.70	34.00	5.94	-39.97	46.67	125.27	78.60	PK	Horizontal
5	5885.12	49.77	34.07	5.95	-39.96	49.83	97.79	47.96	PK	Horizontal

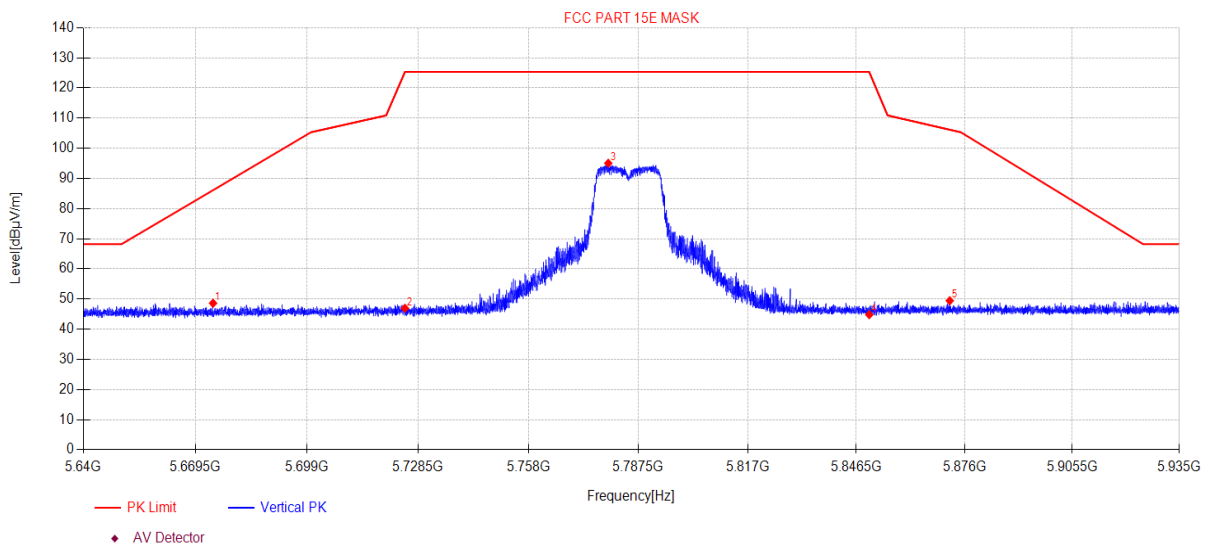
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\22
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5674.13	49.25	33.50	5.85	-39.99	48.61	86.11	37.50	PK	Vertical
2	5725.00	47.31	33.75	5.87	-39.99	46.94	125.30	78.36	PK	Vertical
3	5779.42	95.05	34.08	5.90	-39.98	95.05	125.30	30.25	PK	Vertical
4	5850.00	44.85	34.00	5.94	-39.97	44.82	125.27	80.45	PK	Vertical
5	5871.96	49.43	34.04	5.95	-39.97	49.45	106.15	56.70	PK	Vertical

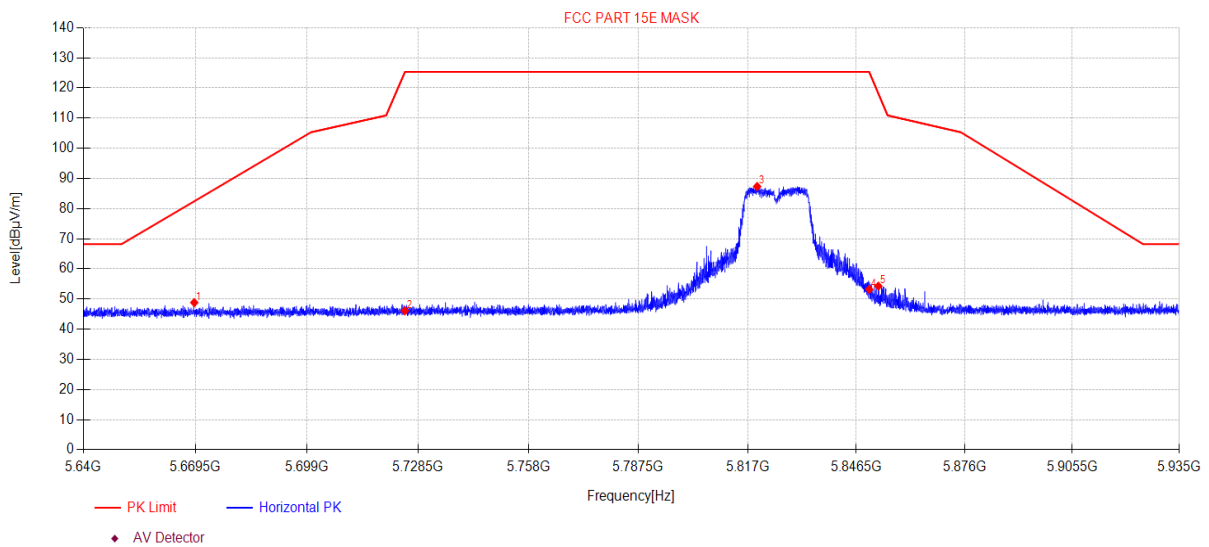
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\23
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5669.18	49.49	33.48	5.84	-39.99	48.82	82.43	33.61	PK	Horizontal
2	5725.00	46.47	33.75	5.87	-39.99	46.10	125.30	79.20	PK	Horizontal
3	5819.57	87.25	34.12	5.92	-39.97	87.32	125.30	37.98	PK	Horizontal
4	5850.00	53.23	34.00	5.94	-39.97	53.20	125.27	72.07	PK	Horizontal
5	5852.49	54.31	34.00	5.94	-39.97	54.28	118.13	63.85	PK	Horizontal

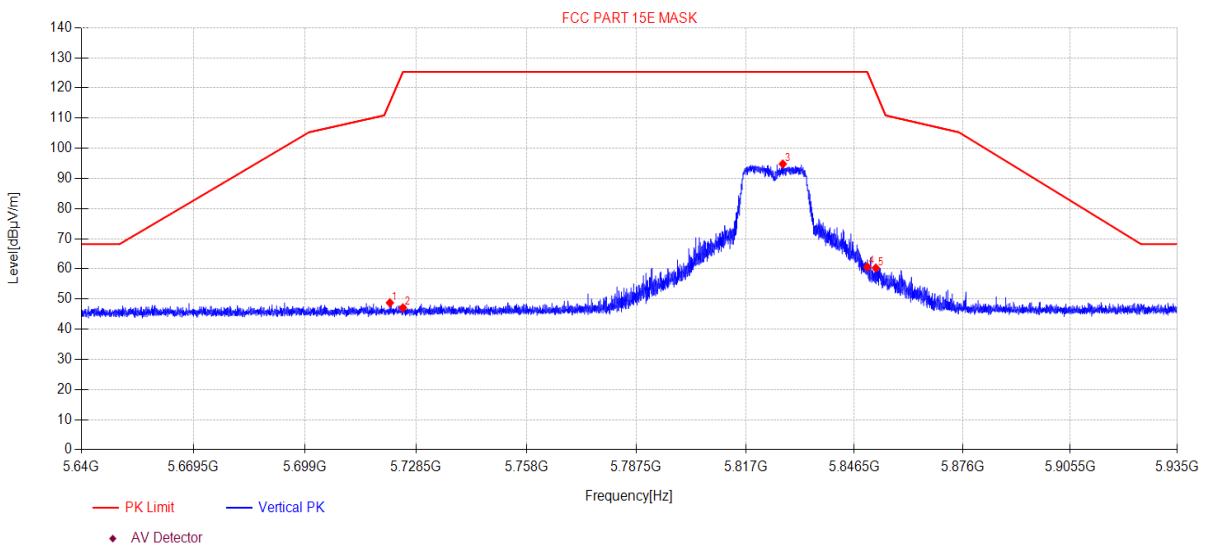
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N20 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\24
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5721.54	49.15	33.73	5.87	-39.99	48.76	115.33	66.57	PK	Vertical
2	5725.00	47.46	33.75	5.87	-39.99	47.09	125.30	78.21	PK	Vertical
3	5827.06	94.75	34.09	5.92	-39.97	94.79	125.30	30.51	PK	Vertical
4	5850.00	60.69	34.00	5.94	-39.97	60.66	125.27	64.61	PK	Vertical
5	5852.34	60.30	34.00	5.94	-39.97	60.27	118.56	58.29	PK	Vertical

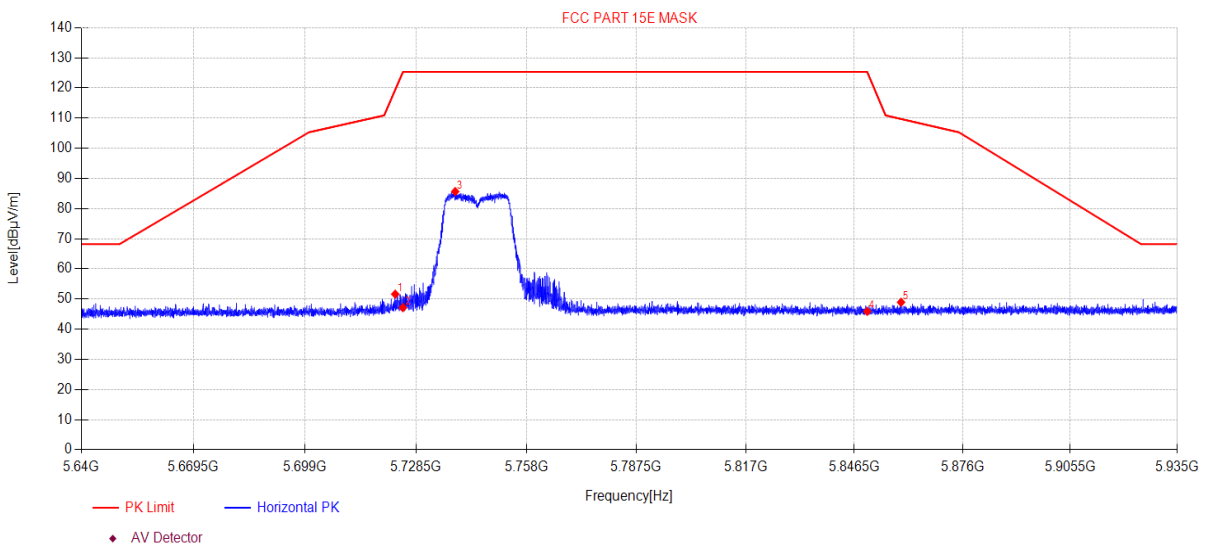
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\25
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5722.95	52.00	33.74	5.87	-39.99	51.62	119.41	67.79	PK	Horizontal
2	5725.00	47.52	33.75	5.87	-39.99	47.15	125.30	78.15	PK	Horizontal
3	5738.94	85.91	33.83	5.88	-39.98	85.64	125.30	39.66	PK	Horizontal
4	5850.00	45.94	34.00	5.94	-39.97	45.91	125.27	79.36	PK	Horizontal
5	5859.21	48.94	34.02	5.94	-39.97	48.93	109.72	60.79	PK	Horizontal

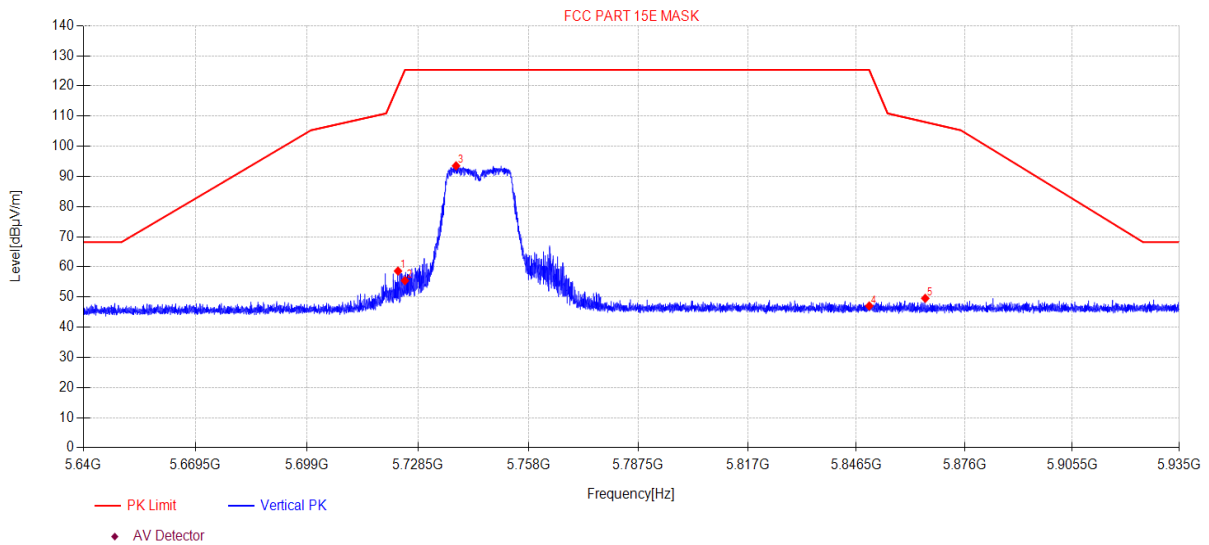
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5745MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\26
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.16	58.99	33.74	5.87	-39.99	58.61	120.00	61.39	PK	Vertical
2	5725.00	55.81	33.75	5.87	-39.99	55.44	125.30	69.86	PK	Vertical
3	5738.65	93.78	33.83	5.88	-39.98	93.51	125.30	31.79	PK	Vertical
4	5850.00	47.08	34.00	5.94	-39.97	47.05	125.27	78.22	PK	Vertical
5	5865.26	49.57	34.03	5.94	-39.97	49.57	108.03	58.46	PK	Vertical

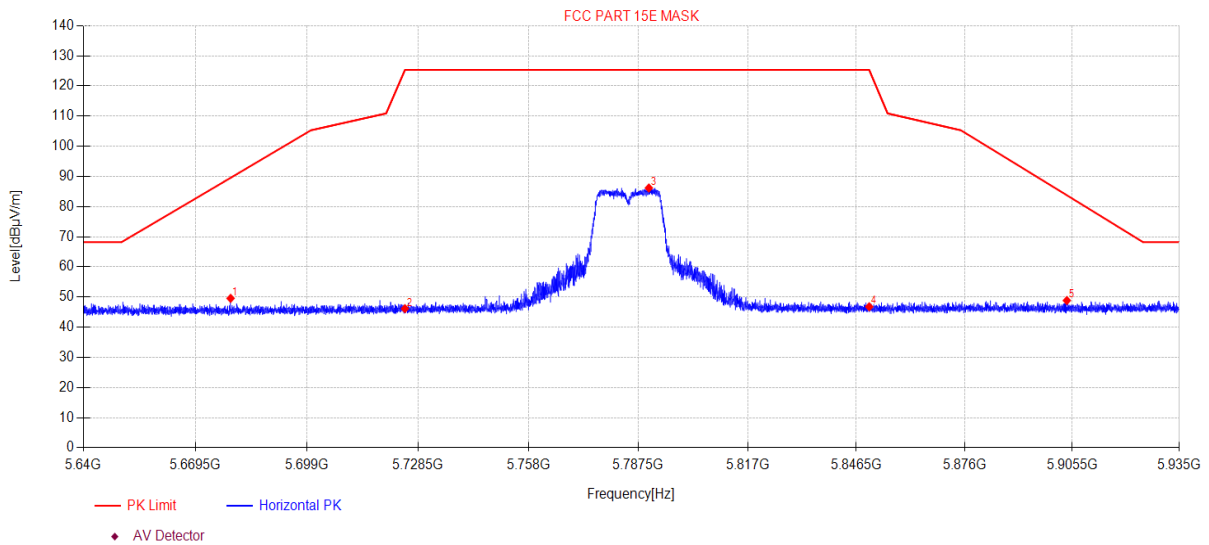
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\27
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5678.76	50.19	33.52	5.85	-39.99	49.57	89.54	39.97	PK	Horizontal
2	5725.00	46.51	33.75	5.87	-39.99	46.14	125.30	79.16	PK	Horizontal
3	5790.33	86.10	34.14	5.91	-39.98	86.17	125.30	39.13	PK	Horizontal
4	5850.00	46.80	34.00	5.94	-39.97	46.77	125.27	78.50	PK	Horizontal
5	5904.03	48.73	34.11	5.96	-39.96	48.84	83.76	34.92	PK	Horizontal

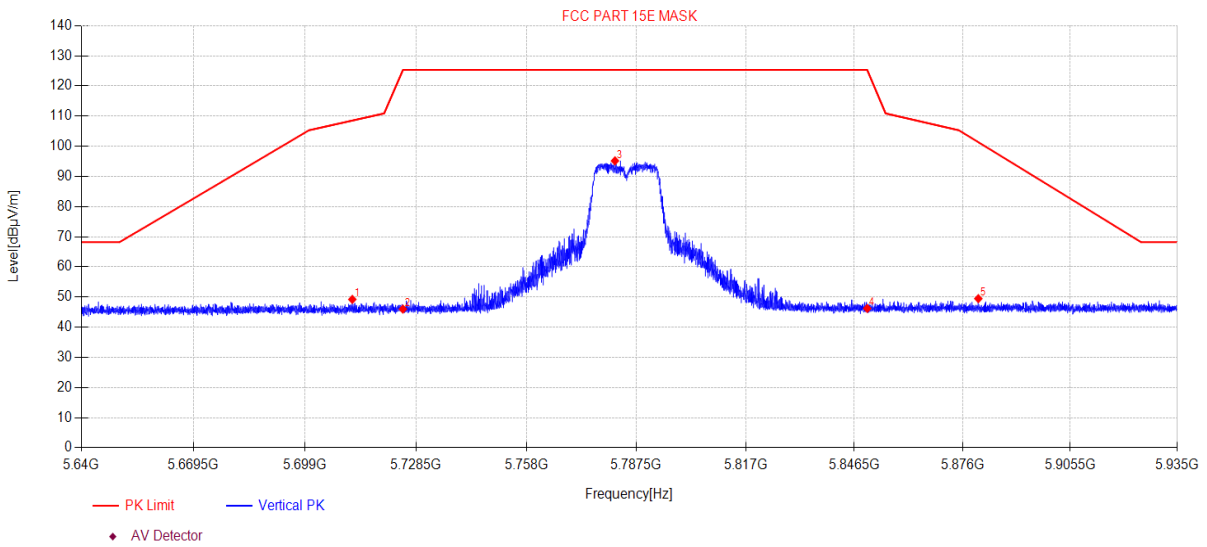
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5785MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\28
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5711.54	49.66	33.67	5.87	-39.99	49.21	108.53	59.32	PK	Vertical
2	5725.00	46.37	33.75	5.87	-39.99	46.00	125.30	79.30	PK	Vertical
3	5781.75	95.15	34.09	5.90	-39.98	95.16	125.30	30.14	PK	Vertical
4	5850.00	46.25	34.00	5.94	-39.97	46.22	125.27	79.05	PK	Vertical
5	5880.31	49.43	34.06	5.95	-39.97	49.47	101.36	51.89	PK	Vertical

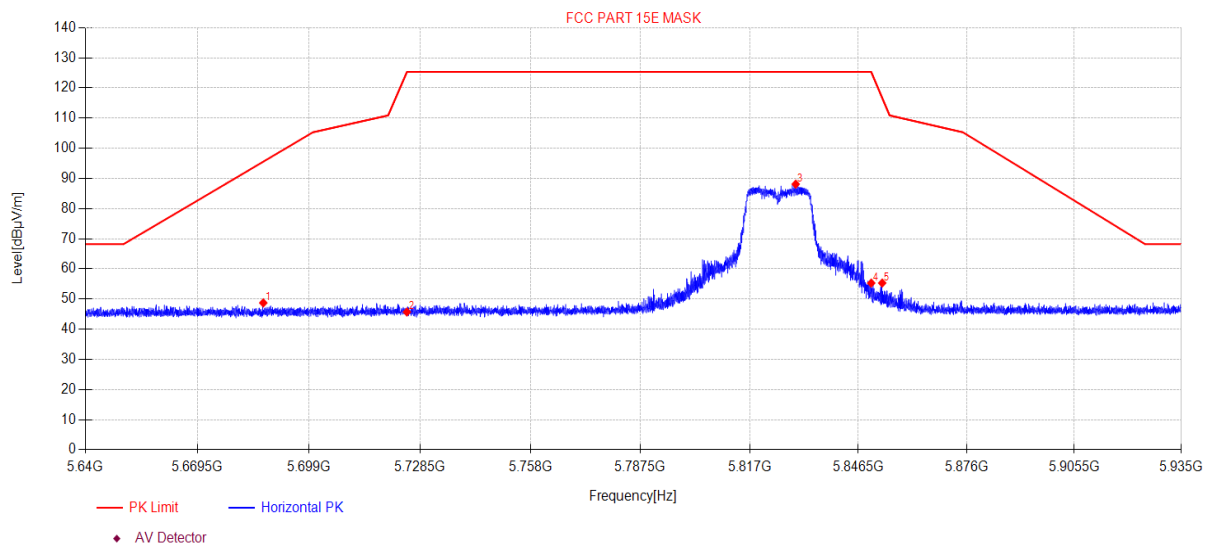
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\29
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5686.88	49.31	33.55	5.85	-39.99	48.72	95.56	46.84	PK	Horizontal
2	5725.00	46.07	33.75	5.87	-39.99	45.70	125.30	79.60	PK	Horizontal
3	5829.48	88.07	34.08	5.92	-39.97	88.10	125.30	37.20	PK	Horizontal
4	5850.00	55.32	34.00	5.94	-39.97	55.29	125.27	69.98	PK	Horizontal
5	5852.99	55.33	34.01	5.94	-39.97	55.31	116.69	61.38	PK	Horizontal

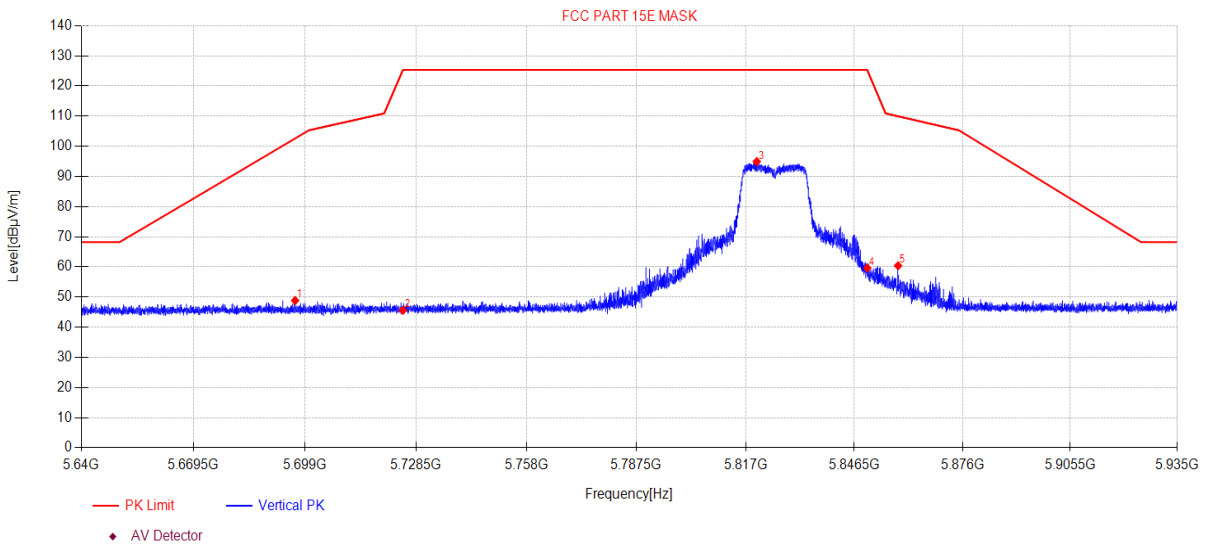
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC20 5825MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\30
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5696.37	49.38	33.59	5.86	-39.99	48.84	102.61	53.77	PK	Vertical
2	5725.00	45.98	33.75	5.87	-39.99	45.61	125.30	79.69	PK	Vertical
3	5820.01	94.84	34.12	5.92	-39.97	94.91	125.30	30.39	PK	Vertical
4	5850.00	59.66	34.00	5.94	-39.97	59.63	125.27	65.64	PK	Vertical
5	5858.39	60.39	34.02	5.94	-39.97	60.38	109.95	49.57	PK	Vertical

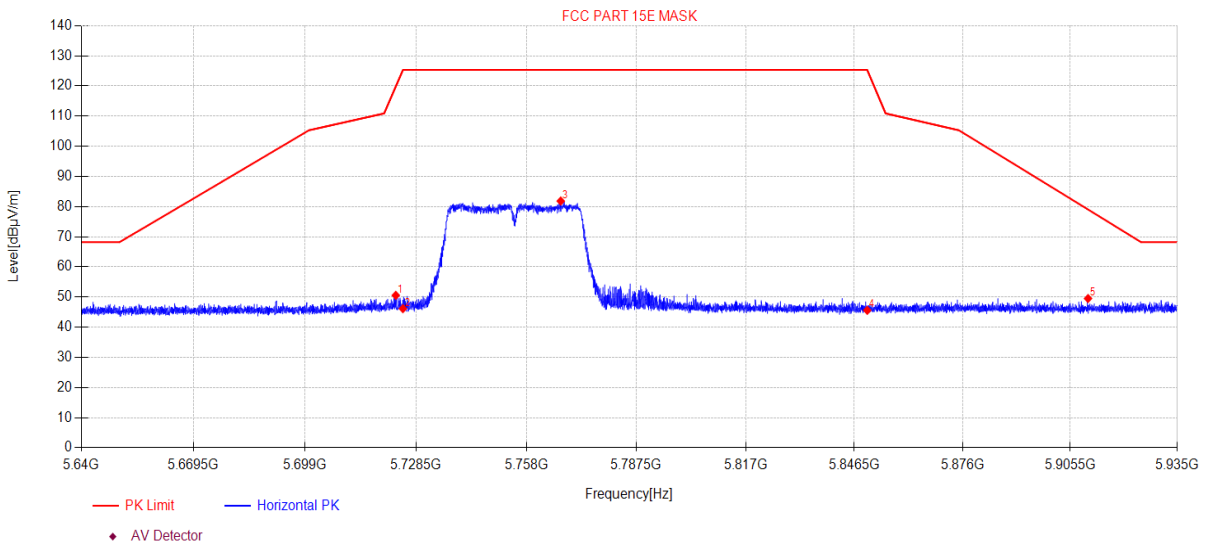
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5755MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\31
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.10	50.93	33.74	5.87	-39.99	50.55	119.83	69.28	PK	Horizontal
2	5725.00	46.51	33.75	5.87	-39.99	46.14	125.30	79.16	PK	Horizontal
3	5767.17	81.92	34.00	5.89	-39.98	81.83	125.30	43.47	PK	Horizontal
4	5850.00	45.62	34.00	5.94	-39.97	45.59	125.27	79.68	PK	Horizontal
5	5910.40	49.38	34.12	5.97	-39.96	49.51	79.04	29.53	PK	Horizontal

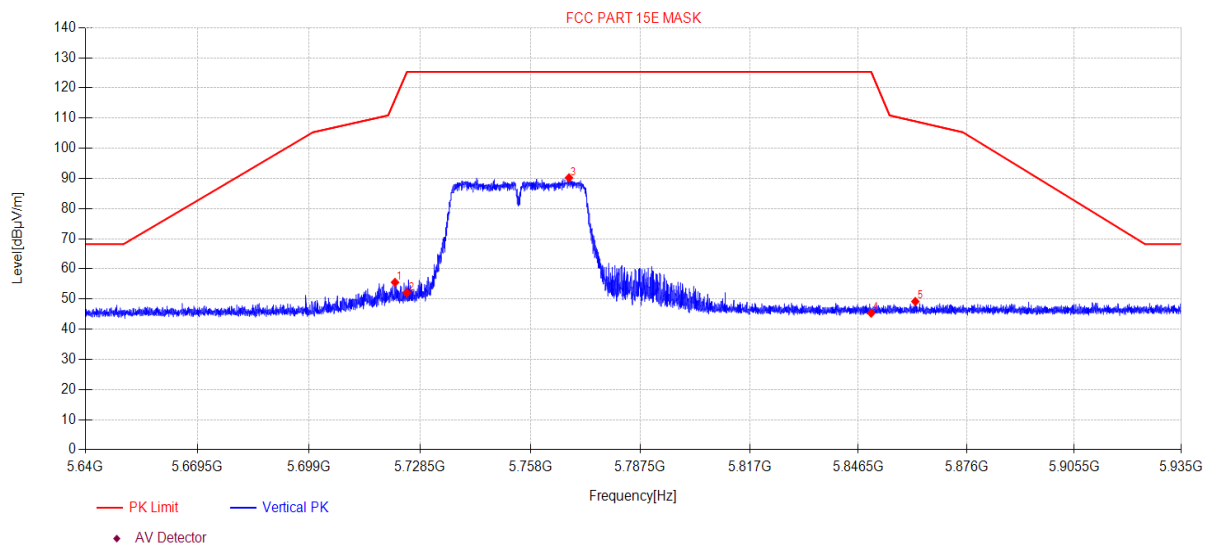
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5755MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\32
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5721.83	55.92	33.73	5.87	-39.99	55.53	116.18	60.65	PK	Vertical
2	5725.00	52.44	33.75	5.87	-39.99	52.07	125.30	73.23	PK	Vertical
3	5768.33	90.29	34.01	5.89	-39.98	90.21	125.30	35.09	PK	Vertical
4	5850.00	45.35	34.00	5.94	-39.97	45.32	125.27	79.95	PK	Vertical
5	5862.02	49.18	34.02	5.94	-39.97	49.17	108.94	59.77	PK	Vertical

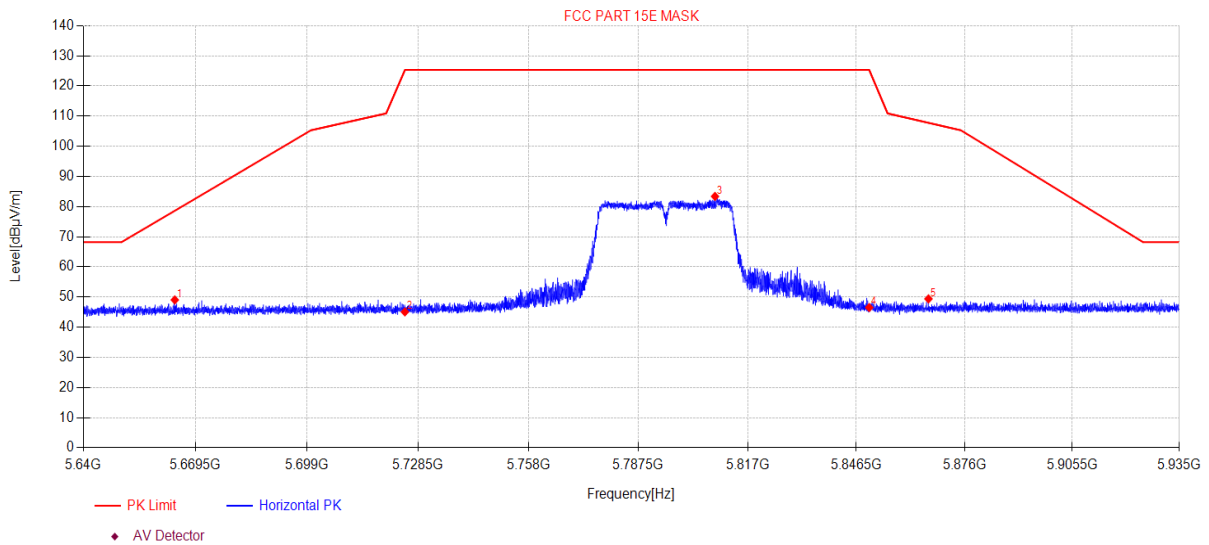
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5795MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\33
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5664.04	49.73	33.46	5.84	-39.99	49.04	78.62	29.58	PK	Horizontal
2	5725.00	45.44	33.75	5.87	-39.99	45.07	125.30	80.23	PK	Horizontal
3	5808.18	83.27	34.17	5.91	-39.97	83.38	125.30	41.92	PK	Horizontal
4	5850.00	46.55	34.00	5.94	-39.97	46.52	125.27	78.75	PK	Horizontal
5	5866.15	49.39	34.03	5.94	-39.97	49.39	107.78	58.39	PK	Horizontal

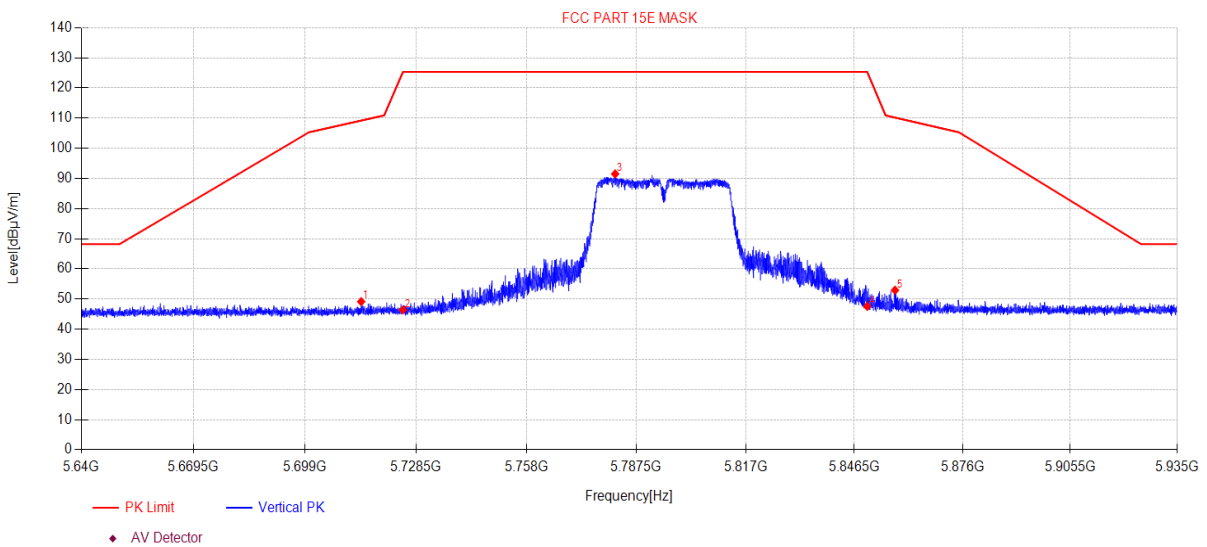
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC40 5795MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\34
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5713.90	49.58	33.68	5.87	-39.99	49.14	109.19	60.05	PK	Vertical
2	5725.00	46.77	33.75	5.87	-39.99	46.40	125.30	78.90	PK	Vertical
3	5781.81	91.50	34.09	5.90	-39.98	91.51	125.30	33.79	PK	Vertical
4	5850.00	47.60	34.00	5.94	-39.97	47.57	125.27	77.70	PK	Vertical
5	5857.56	52.93	34.02	5.94	-39.97	52.92	110.18	57.26	PK	Vertical

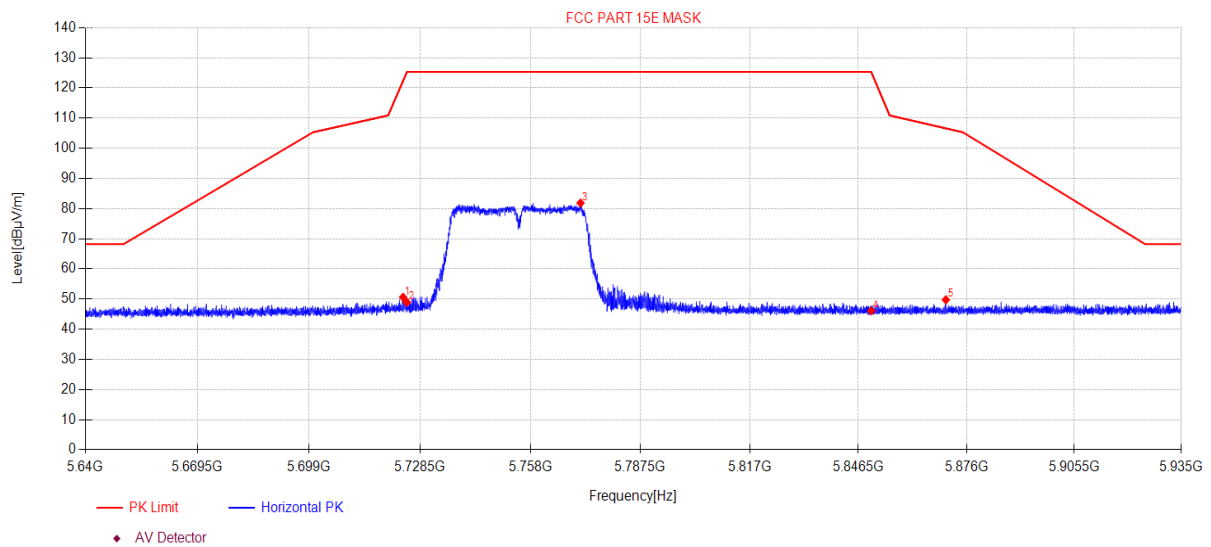
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5755MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\35
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.99	50.98	33.74	5.87	-39.99	50.60	122.38	71.78	PK	Horizontal
2	5725.00	49.24	33.75	5.87	-39.99	48.87	125.30	76.43	PK	Horizontal
3	5771.42	81.89	34.03	5.90	-39.98	81.84	125.30	43.46	PK	Horizontal
4	5850.00	46.11	34.00	5.94	-39.97	46.08	125.27	79.19	PK	Horizontal
5	5870.34	49.73	34.04	5.95	-39.97	49.75	106.61	56.86	PK	Horizontal

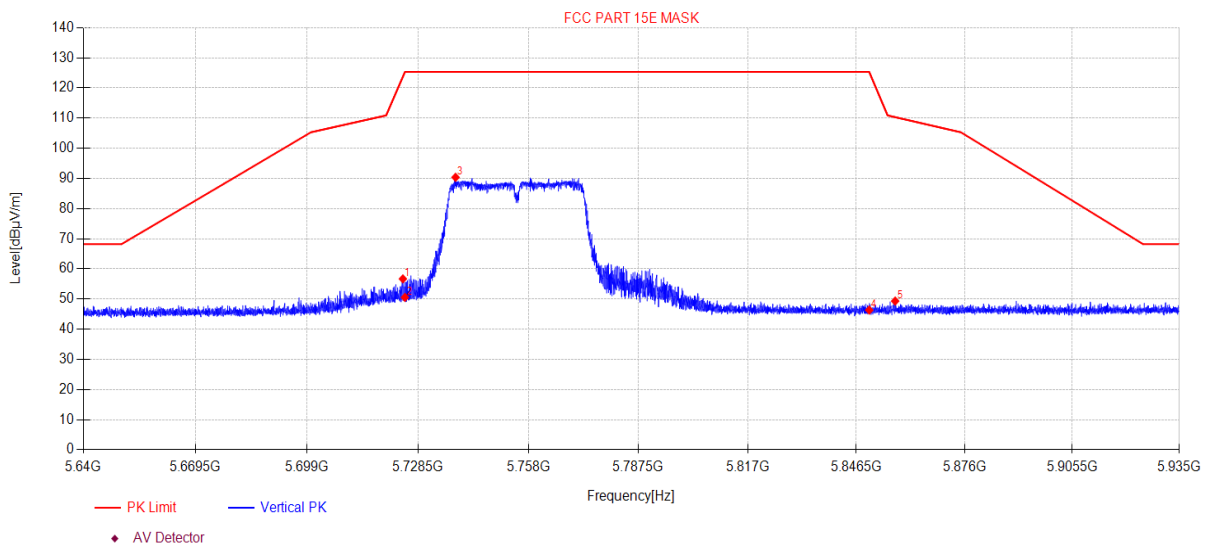
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5755MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\36
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5724.46	57.05	33.75	5.87	-39.99	56.68	123.74	67.06	PK	Vertical
2	5725.00	50.91	33.75	5.87	-39.99	50.54	125.30	74.76	PK	Vertical
3	5738.50	90.63	33.83	5.88	-39.98	90.36	125.30	34.94	PK	Vertical
4	5850.00	46.36	34.00	5.94	-39.97	46.33	125.27	78.94	PK	Vertical
5	5857.06	49.35	34.01	5.94	-39.97	49.33	110.32	60.99	PK	Vertical

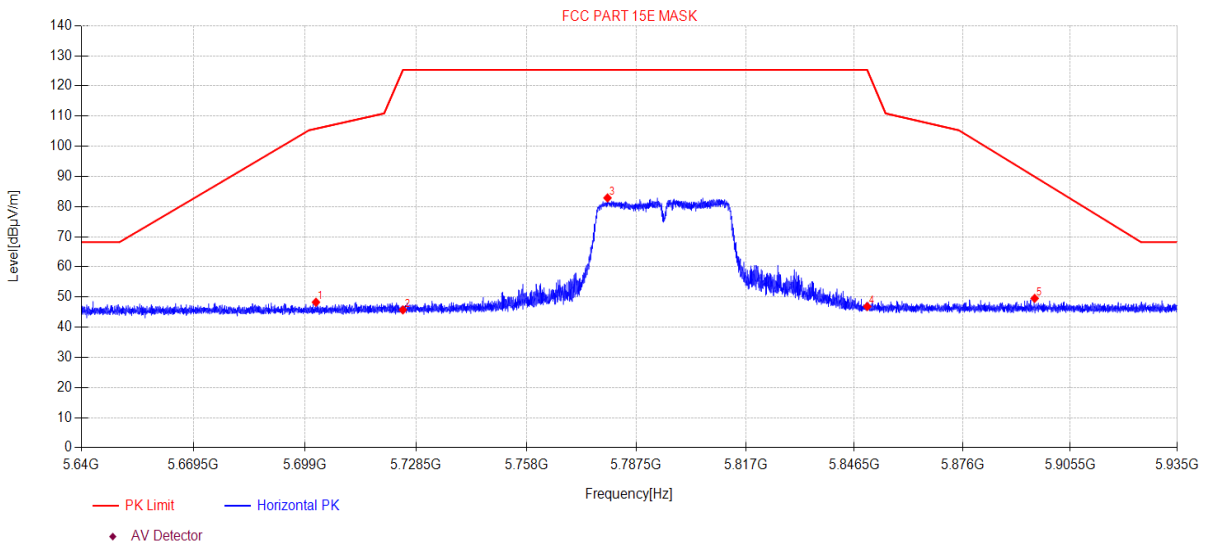
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5795MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\37
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5701.89	48.80	33.61	5.86	-39.99	48.28	105.83	57.55	PK	Horizontal
2	5725.00	46.11	33.75	5.87	-39.99	45.74	125.30	79.56	PK	Horizontal
3	5779.74	82.86	34.08	5.90	-39.98	82.86	125.30	42.44	PK	Horizontal
4	5850.00	46.88	34.00	5.94	-39.97	46.85	125.27	78.42	PK	Horizontal
5	5895.74	49.45	34.09	5.96	-39.96	49.54	89.91	40.37	PK	Horizontal

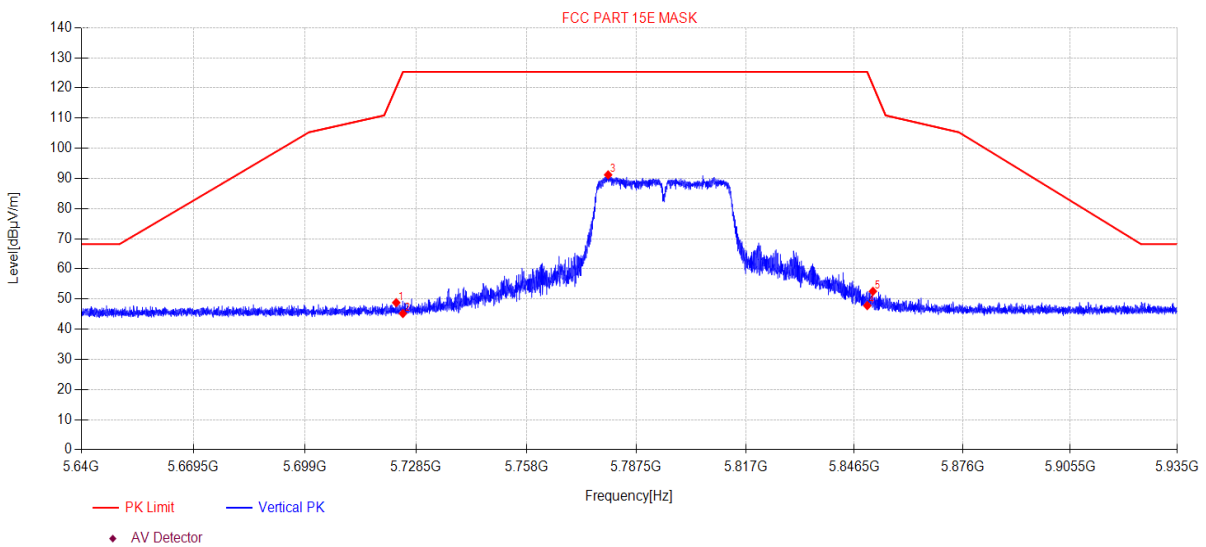
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVIGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11N40 5795MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\38
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.22	49.18	33.74	5.87	-39.99	48.80	120.17	71.37	PK	Vertical
2	5725.00	45.56	33.75	5.87	-39.99	45.19	125.30	80.11	PK	Vertical
3	5779.92	91.18	34.08	5.90	-39.98	91.18	125.30	34.12	PK	Vertical
4	5850.00	47.85	34.00	5.94	-39.97	47.82	125.27	77.45	PK	Vertical
5	5851.54	52.59	34.00	5.94	-39.97	52.56	120.85	68.29	PK	Vertical

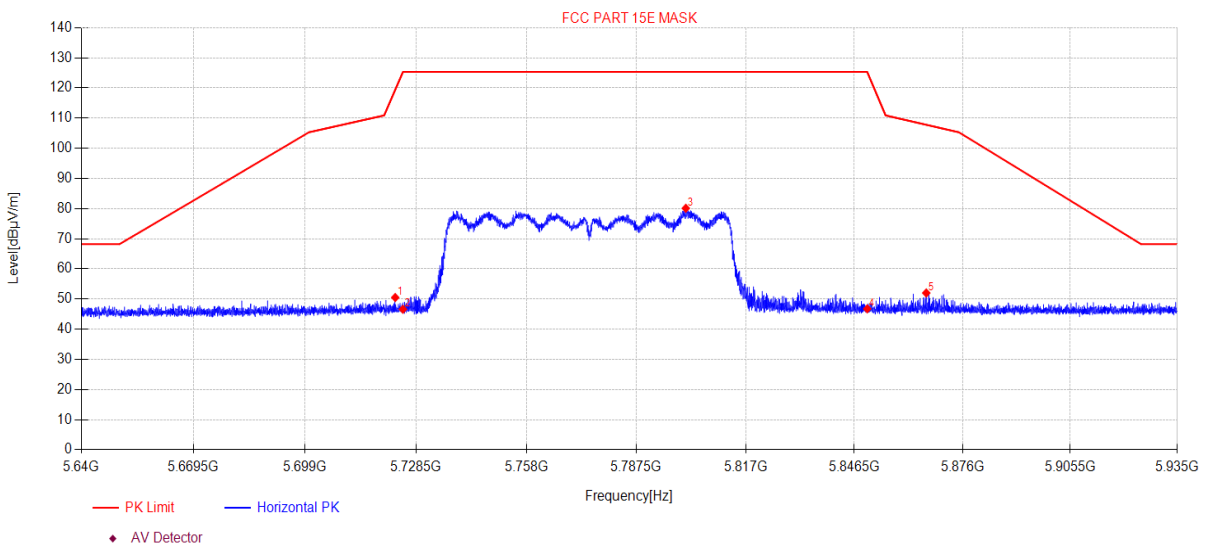
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC80 5775MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\39
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5722.95	50.88	33.74	5.87	-39.99	50.50	119.41	68.91	PK	Horizontal
2	5725.00	46.98	33.75	5.87	-39.99	46.61	125.30	78.69	PK	Horizontal
3	5800.83	79.97	34.20	5.91	-39.98	80.10	125.30	45.20	PK	Horizontal
4	5850.00	46.79	34.00	5.94	-39.97	46.76	125.27	78.51	PK	Horizontal
5	5866.09	52.01	34.03	5.94	-39.97	52.01	107.80	55.79	PK	Horizontal

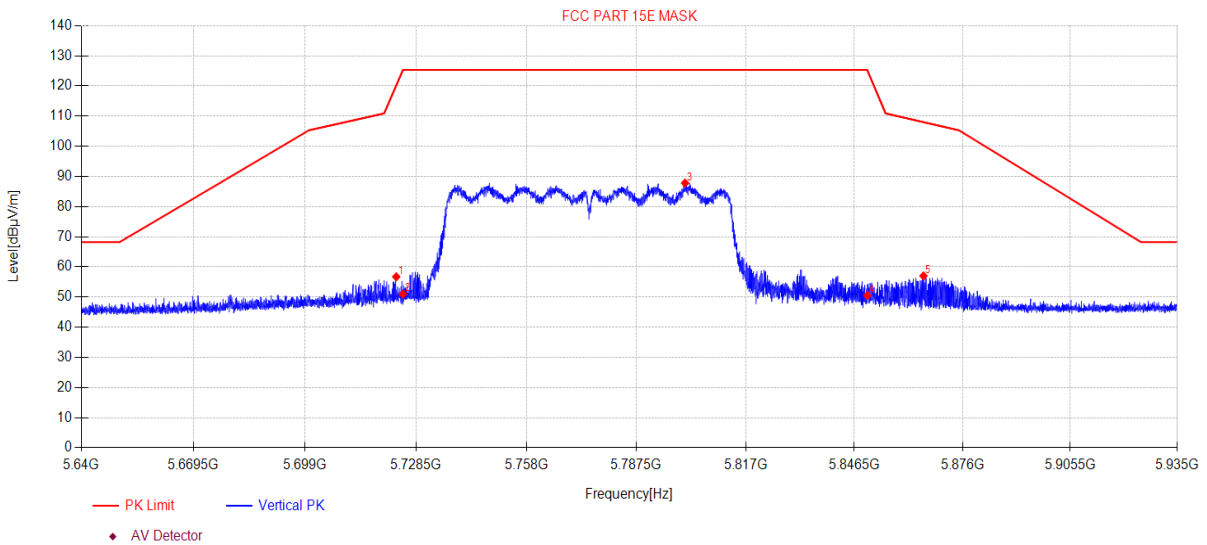
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-10-27 **Tested By:** Junchang Du
EUT: NAVGATION MULTIMEDIA RECEIVER **Model Number:** IX210
Test Mode: TX 11AC80 5775MHz **Power Supply:** DC 12V
Condition: Temp:21.7°C;Humi:60.9% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23101322-2E IX210\FCC ABOVE 1G 5.8GWIFI\40
Memo: Sample Number:S23101322-02 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.22	57.09	33.74	5.87	-39.99	56.71	120.17	63.46	PK	Vertical
2	5725.00	51.36	33.75	5.87	-39.99	50.99	125.30	74.31	PK	Vertical
3	5800.63	87.67	34.20	5.91	-39.98	87.80	125.30	37.50	PK	Vertical
4	5850.00	50.55	34.00	5.94	-39.97	50.52	125.27	74.75	PK	Vertical
5	5865.32	57.00	34.03	5.94	-39.97	57.00	108.01	51.01	PK	Vertical

Note:

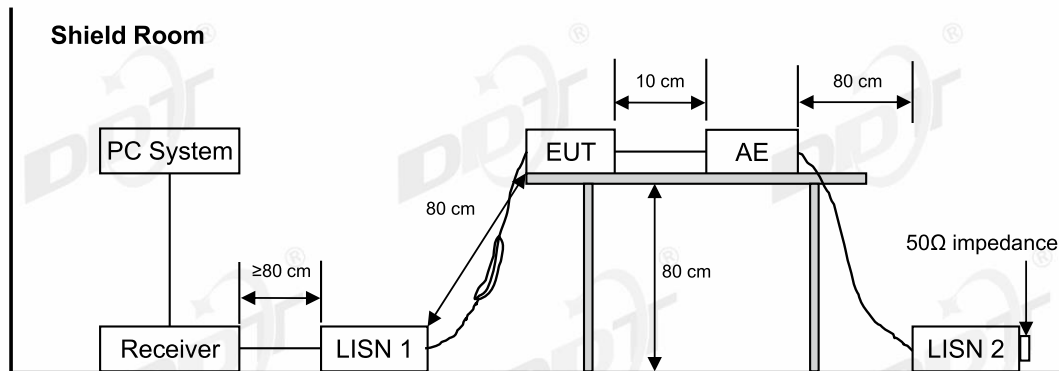
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Power Line Conducted Emission

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒ Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Jul. 11, 2023	1 Year
LISN 1	R&S	ENV216	101109	Jul. 11, 2023	1 Year
LISN 2	R&S	ESH2-Z5	100309	Jul. 12, 2023	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Jul. 15, 2023	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Jul. 15, 2023	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Measurement uncertainty: 3.72dB (9 kHz to 150 kHz), 3.34dB (150 kHz to 30 MHz).					

14.2. Block diagram of test setup



14.3. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.4. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

14.5. Test Result

Not applicable. EUT is DC powered.

15. Antenna Requirements

15.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

15.2. Result

The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

17. Photos of the EUT

Please refer to appendix I.

END OF REPORT