4. MAXIMUM CONDUCTED OUTPUT POWER

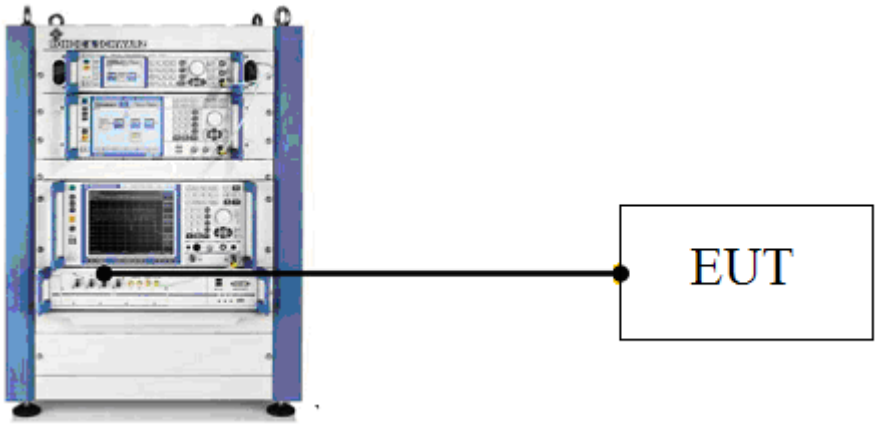
4.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p≦125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-2A	All Device	250mW(23.98dBm) or 11dBm+10 log B,Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-2C	All Device	250mW(23.98dBm) or 11dBm+10 log B,Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-3	All Device	1W(30dBm)

Note:

For the Band U-NII-2A and U-NII-2C,the maximum conducted output power limit calculate result refer to section 3.5.

4.2. Test Setup



4.3. Test Procedure

a. Connect EUT antenna terminal to the OSP-B157WB with RF cable.
b. Set the EUT transmit continuously with maximum output power.
c. Through the test software in TS8897 to control a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
d. Repeat above procedures until all modes and channels were measured.
e. Record the results in the test report.

4.4. Test Result

Temperature	23.6℃	Relative Humidity			56%	Test Voltage	AC 120V/60Hz		
BAND	Test Mode	Fre (MHz)	Conducted AVG Output Power (dBm)		Total Conducted Output Power (W)	Total Conducted Output Power (dBm)	Limit (dBm)	Limit (W)	Result
			Ant 1	Ant 2					
U-NII-1	IEEE 802.11a	5180	12.11	12.62			23.98	0.2500	PASS
		5200	12.49	12.31			23.98	0.2500	PASS
		5240	12.98	13.00			23.98	0.2500	PASS
	IEEE 802.11n HT20	5180	9.68	10.51	0.02053	13.12	23.98	0.2500	PASS
		5200	9.80	10.61	0.02105	13.23	23.98	0.2500	PASS
		5240	10.82	10.50	0.02329	13.67	23.98	0.2500	PASS
	IEEE 802.11ac VHT20	5180	9.70	10.44	0.02040	13.10	23.98	0.2500	PASS
		5200	9.76	10.64	0.02103	13.23	23.98	0.2500	PASS
		5240	10.89	10.34	0.02309	13.63	23.98	0.2500	PASS
	IEEE 802.11n HT40	5190	10.17	12.39	0.02774	14.43	23.98	0.2500	PASS
		5230	10.96	12.66	0.03091	14.90	23.98	0.2500	PASS
	IEEE 802.11ac VHT40	5190	11.78	12.46	0.03269	15.14	23.98	0.2500	PASS
		5230	11.78	12.78	0.03404	15.32	23.98	0.2500	PASS
	IEEE 802.11ac VHT80	5210	12.50	13.09	0.03813	15.81	23.98	0.2500	PASS
	IEEE 802.11ax HE20	5180	9.83	10.67	0.02128	13.28	23.98	0.2500	PASS
		5200	10.33	10.22	0.02131	13.29	23.98	0.2500	PASS
		5240	11.01	10.58	0.02404	13.81	23.98	0.2500	PASS
	IEEE 802.11ax HE40	5190	12.20	12.68	0.03516	15.46	23.98	0.2500	PASS
		5230	13.01	12.92	0.03961	15.98	23.98	0.2500	PASS
	IEEE 802.11ax HE80	5210	12.70	13.86	0.04294	16.33	23.98	0.2500	PASS

Temperature	23.6℃	Relative Humidity			56%	Test Voltage	AC 120V/60Hz		
BAND	Test Mode	Fre (MHz)	Conducted AVG Output Power (dBm)		Total Conducted Output Power (W)	Total Conducted Output Power (dBm)	Limit (dBm)	Limit (W)	Result
			Ant 1	Ant 2					
U-NII-2A	IEEE 802.11a	5260	10.52	12.89	/	/	23.93	0.2471	PASS
		5300	12.60	11.85	/	/	23.93	0.2471	PASS
		5320	12.63	11.84	/	/	23.89	0.2449	PASS
	IEEE 802.11n HT20	5260	10.54	10.50	0.02253	13.53	23.98	0.2500	PASS
		5300	10.62	9.99	0.02152	13.33	23.98	0.2500	PASS
		5320	10.69	9.12	0.01989	12.99	23.97	0.2492	PASS
	IEEE 802.11ac VHT20	5260	10.28	11.60	0.02512	14.00	23.98	0.2500	PASS
		5300	10.63	11.20	0.02475	13.94	23.83	0.2416	PASS
		5320	10.32	10.88	0.02300	13.62	23.98	0.2500	PASS
	IEEE 802.11n HT40	5270	12.63	11.86	0.03363	15.27	23.98	0.2500	PASS
		5310	12.54	12.44	0.03551	15.50	23.98	0.2500	PASS
	IEEE 802.11ac VHT40	5270	12.39	12.40	0.03470	15.40	23.98	0.2500	PASS
		5310	12.34	12.46	0.03478	15.41	23.98	0.2500	PASS
	IEEE 802.11ac VHT80	5290	12.63	12.60	0.03653	15.63	23.98	0.2500	PASS
	IEEE 802.11ax HE20	5260	10.63	10.84	0.02369	13.75	23.98	0.2500	PASS
		5300	10.71	10.12	0.02207	13.44	23.98	0.2500	PASS
		5320	10.82	9.84	0.02171	13.37	23.98	0.2500	PASS
	IEEE 802.11ax HE40	5270	12.84	12.56	0.03725	15.71	23.98	0.2500	PASS
		5310	12.42	12.62	0.03572	15.53	23.98	0.2500	PASS
	IEEE 802.11ax HE80	5290	12.76	12.72	0.03758	15.75	23.98	0.2500	PASS

BAND	Test Mode	Fre (MHz)	Conducted AVG Output Power (dBm)		Total Conducted Output Power (W)	Total Conducted Output Power (dBm)	Limit (dBm)	Limit (W)	Result
			Ant 1	Ant 2					
U-NII-2C	IEEE 802.11a	5500	10.17	11.78	/	/	23.92	0.2463	PASS
		5580	11.23	13.09	/	/	23.97	0.2492	PASS
		5700	9.75	12.52	/	/	23.93	0.2471	PASS
	IEEE 802.11n HT20	5500	10.76	11.36	0.02560	14.08	23.98	0.2500	PASS
		5580	11.57	11.79	0.02944	14.69	23.98	0.2500	PASS
		5700	10.81	11.79	0.02715	14.34	23.98	0.2500	PASS
	IEEE 802.11ac VHT20	5500	10.35	10.76	0.02273	13.57	23.98	0.2500	PASS
		5580	11.63	11.98	0.03033	14.82	23.98	0.2500	PASS
		5700	10.48	12.18	0.02771	14.43	23.98	0.2500	PASS
	IEEE 802.11n HT40	5510	10.39	11.26	0.02429	13.85	23.98	0.2500	PASS
		5590	10.81	12.07	0.02816	14.50	23.98	0.2500	PASS
		5670	10.31	12.27	0.02760	14.41	23.98	0.2500	PASS
	IEEE 802.11ac VHT40	5510	10.49	11.88	0.02658	14.25	23.98	0.2500	PASS
		5590	11.00	12.04	0.02859	14.56	23.98	0.2500	PASS
		5670	13.23	12.24	0.03779	15.77	23.98	0.2500	PASS
	IEEE 802.11ac VHT80	5530	10.58	13.30	0.03283	15.16	23.98	0.2500	PASS
		5610	11.17	14.03	0.03841	15.84	23.98	0.2500	PASS
	IEEE 802.11ax HE20	5500	10.91	10.75	0.02423	13.84	23.98	0.2500	PASS
		5580	11.94	11.92	0.03119	14.94	23.98	0.2500	PASS
		5700	10.60	12.35	0.02865	14.57	23.98	0.2500	PASS
	IEEE 802.11ax HE40	5510	10.65	11.53	0.02582	14.12	23.98	0.2500	PASS
		5590	11.09	12.26	0.02966	14.72	23.98	0.2500	PASS
		5670	13.08	12.45	0.03791	15.79	23.98	0.2500	PASS
	IEEE 802.11ax HE80	5530	10.84	12.12	0.02841	14.54	23.98	0.2500	PASS
		5610	11.68	13.92	0.03941	15.96	23.98	0.2500	PASS

BAND	Test Mode	Fre (MHz)	Conducted AVG Output Power (dBm)		Total Conducted Output Power (W)	Total Conducted Output Power (dBm)	Limit (dBm)	Limit (W)	Result
			Ant 1	Ant 2					
U-NII-3	IEEE 802.11a	5745	11.04	11.73			30.00	1.0000	PASS
		5785	10.96	12.40			30.00	1.0000	PASS
		5825	10.93	12.19			30.00	1.0000	PASS
	IEEE 802.11n HT20	5745	11.09	11.78	0.02792	14.46	30.00	1.0000	PASS
		5785	10.98	11.86	0.02787	14.45	30.00	1.0000	PASS
		5825	11.01	12.76	0.03151	14.99	30.00	1.0000	PASS
	IEEE 802.11ac VHT20	5745	11.12	12.47	0.03059	14.86	30.00	1.0000	PASS
		5785	11.03	12.41	0.03007	14.78	30.00	1.0000	PASS
		5825	11.01	12.77	0.03153	14.99	30.00	1.0000	PASS
	IEEE 802.11n HT40	5755	12.08	12.16	0.03259	15.13	30.00	1.0000	PASS
		5795	11.20	11.79	0.02826	14.51	30.00	1.0000	PASS
	IEEE 802.11ac VHT40	5755	12.12	12.41	0.03372	15.28	30.00	1.0000	PASS
		5795	10.91	12.64	0.03070	14.87	30.00	1.0000	PASS
	IEEE 802.11ac VHT80	5775	10.96	13.02	0.03252	15.12	30.00	1.0000	PASS
	IEEE 802.11ax HE20	5745	11.15	11.91	0.02854	14.55	30.00	1.0000	PASS
		5785	11.00	12.71	0.03127	14.95	30.00	1.0000	PASS
		5825	10.96	12.80	0.03152	14.99	30.00	1.0000	PASS
	IEEE 802.11ax HE40	5755	11.62	12.73	0.03326	15.22	30.00	1.0000	PASS
		5795	10.46	12.89	0.03059	14.86	30.00	1.0000	PASS
	IEEE 802.11ax HE80	5775	11.17	13.22	0.03404	15.32	30.00	1.0000	PASS

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17dBm/MHz
	Indoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	17dBm/MHz
	Mobile and Portable Client Device	11dBm/MHz
U-NII-2A	All Device	11dBm/MHz
U-NII-2C	All Device	11dBm/MHz
U-NII-3	All Device	30dBm/500KHz

5.2. Test Setup

5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500KHz(For U-NII-3)
VBW	3MHz(For U-NII-1&U-NII-2A&U-NII-2C) 2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	≥2×SPAN/RBW
Detector	RMS(power averaging)
Trace Average	≥100 traces

5.4. Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 5.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
e. If the duty cycle of test siganl＜98%,the result=max measured value+10×log(1/duty cycle);
If the duty cycle of test siganl≥98%,the esult=max measured value.
f. Repeat above procedures until all modes and channels were measured.
g. Record the results in the test report.

5.5. Test Result

Temperature		23.6℃	Relative Humidity		56%	Test Voltage	AC 120V/60Hz	
BAND	Test Mode	Fre (MHz)	Power Density (dBm/MHz)		Duty Factor (dB)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
			Ant 1	Ant 2				
U-NII-1	IEEE 802.11a	5180	2.92	2.18	0.23	/	11.00	PASS
		5200	3.41	2.32	0.23	/	11.00	PASS
		5240	3.82	2.97	0.23	/	11.00	PASS
	IEEE 802.11n HT20	5180	-0.94	-0.06	0.25	2.78	11.00	PASS
		5200	0.10	0.04	0.25	3.33	11.00	PASS
		5240	0.85	0.52	0.25	3.94	11.00	PASS
	IEEE 802.11ac VHT20	5180	-0.70	0.15	0.23	2.99	11.00	PASS
		5200	-0.10	0.32	0.23	3.36	11.00	PASS
		5240	1.10	0.83	0.23	4.21	11.00	PASS
	IEEE 802.11n HT40	5190	-1.29	-1.06	0.40	2.24	11.00	PASS
		5230	-0.10	-0.57	0.40	3.08	11.00	PASS
	IEEE 802.11ac VHT40	5190	-1.11	-1.17	0.29	2.16	11.00	PASS
		5230	-0.07	-0.75	0.29	2.90	11.00	PASS
	IEEE 802.11ac VHT80	5210	-3.70	-4.28	0.68	-0.29	11.00	PASS
	IEEE 802.11ax HE20	5180	-0.94	-0.34	0.35	2.73	11.00	PASS
		5200	-0.07	-0.14	0.35	3.26	11.00	PASS
		5240	1.02	0.55	0.35	4.15	11.00	PASS
	IEEE 802.11ax HE40	5190	-1.42	-1.38	0.53	2.15	11.00	PASS
		5230	-0.10	-0.67	0.53	3.17	11.00	PASS
	IEEE 802.11ax HE80	5210	-3.49	-3.84	0.43	-0.22	11.00	PASS

Temperature		23.6℃	Relative Humidity		56%	Test Voltage	AC 120V/60Hz	
BAND	Test Mode	Fre (MHz)	Power Density (dBm/MHz)		Duty Factor (dB)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
			Ant 1	Ant 2				
U-NII-2A	IEEE 802.11a	5260	3.70	3.08	0.23	/	11.00	PASS
		5300	4.33	4.00	0.23	/	11.00	PASS
		5320	4.45	3.78	0.23	/	11.00	PASS
	IEEE 802.11n HT20	5260	1.16	3.09	0.25	5.49	11.00	PASS
		5300	2.16	3.34	0.25	6.05	11.00	PASS
		5320	2.03	3.75	0.25	6.23	11.00	PASS
	IEEE 802.11ac VHT20	5260	1.15	1.04	0.23	4.34	11.00	PASS
		5300	1.79	1.52	0.23	4.90	11.00	PASS
		5320	1.99	1.77	0.23	5.12	11.00	PASS
	IEEE 802.11n HT40	5270	0.72	-0.22	0.40	3.69	11.00	PASS
		5310	1.09	0.55	0.40	4.24	11.00	PASS
	IEEE 802.11ac VHT40	5270	0.58	0.43	0.29	3.80	11.00	PASS
		5310	0.96	0.31	0.29	3.94	11.00	PASS
	IEEE 802.11ac VHT80	5290	-2.66	-3.51	0.68	0.63	11.00	PASS
	IEEE 802.11ax HE20	5260	1.21	3.37	0.35	5.78	11.00	PASS
		5300	2.06	3.51	0.35	6.21	11.00	PASS
		5320	2.27	3.56	0.35	6.32	11.00	PASS
	IEEE 802.11ax HE40	5270	0.44	0.00	0.53	3.77	11.00	PASS
		5310	0.75	0.27	0.53	4.06	11.00	PASS
	IEEE 802.11ax HE80	5290	-2.08	-2.97	0.43	0.94	11.00	PASS

BAND	Test Mode	Fre (MHz)	Power Density (dBm/MHz)		Duty Factor (dB)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
			Ant 1	Ant 2				
U-NII-2C	IEEE 802.11a	5500	2.97	2.03	0.23	/	11.00	PASS
		5580	3.31	2.04	0.23	/	11.00	PASS
		5700	2.09	2.80	0.23	/	11.00	PASS
	IEEE 802.11n HT20	5500	0.75	-0.04	0.25	3.63	11.00	PASS
		5580	1.21	0.20	0.25	3.99	11.00	PASS
		5700	-0.20	1.66	0.25	4.09	11.00	PASS
	IEEE 802.11ac VHT20	5500	0.73	-0.32	0.23	3.48	11.00	PASS
		5580	1.24	-0.02	0.23	3.90	11.00	PASS
		5700	-0.38	1.70	0.23	4.02	11.00	PASS
	IEEE 802.11n HT40	5510	0.06	-0.98	0.40	2.98	11.00	PASS
		5590	0.08	-1.23	0.40	2.89	11.00	PASS
		5670	-0.89	-1.39	0.40	2.28	11.00	PASS
	IEEE 802.11ac VHT40	5510	0.07	-1.18	0.29	2.79	11.00	PASS
		5590	0.41	-1.34	0.29	2.92	11.00	PASS
		5670	-1.02	-1.38	0.29	2.10	11.00	PASS
	IEEE 802.11ac VHT80	5530	-3.55	-5.02	0.68	-0.53	11.00	PASS
		5610	-3.47	-4.24	0.68	-0.15	11.00	PASS
	IEEE 802.11ax HE20	5500	0.77	-0.04	0.35	3.75	11.00	PASS
		5580	1.16	-0.05	0.35	3.96	11.00	PASS
		5700	-0.17	1.70	0.35	4.23	11.00	PASS
	IEEE 802.11ax HE40	5510	-0.34	-1.40	0.53	2.71	11.00	PASS
		5590	-0.11	-1.44	0.53	2.82	11.00	PASS
		5670	-1.28	-1.30	0.53	2.26	11.00	PASS
	IEEE 802.11ax HE80	5530	-3.09	-3.99	0.43	-0.08	11.00	PASS
		5610	-2.92	-3.45	0.43	0.26	11.00	PASS

BAND	Test Mode	Fre (MHz)	Power Density (dBm/500KHz)		Duty Factor (dB)	Total Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
			Ant 1	Ant 2				
U-NII-3	IEEE 802.11a	5745	-0.10	1.40	0.23	/	30.00	PASS
		5785	0.44	2.16	0.23	/	30.00	PASS
		5825	0.77	2.62	0.23	/	30.00	PASS
	IEEE 802.11n HT20	5745	-0.44	0.30	0.25	3.20	30.00	PASS
		5785	0.08	1.08	0.25	3.87	30.00	PASS
		5825	0.33	1.58	0.25	4.26	30.00	PASS
	IEEE 802.11ac VHT20	5745	0.09	1.56	0.23	4.13	30.00	PASS
		5785	0.33	2.37	0.23	4.71	30.00	PASS
		5825	0.63	2.78	0.23	5.08	30.00	PASS
	IEEE 802.11n HT40	5755	-3.38	-1.44	0.40	1.11	30.00	PASS
		5795	-2.95	-0.92	0.40	1.60	30.00	PASS
	IEEE 802.11ac VHT40	5755	-3.38	-1.34	0.29	1.06	30.00	PASS
		5795	-3.15	-1.10	0.29	1.29	30.00	PASS
	IEEE 802.11ac VHT80	5775	-6.39	-4.08	0.68	-1.39	30.00	PASS
	IEEE 802.11ax HE20	5745	-0.08	1.14	0.35	3.93	30.00	PASS
		5785	0.25	2.26	0.35	4.73	30.00	PASS
		5825	0.50	2.59	0.35	5.03	30.00	PASS
	IEEE 802.11ax HE40	5755	-3.13	-1.83	0.53	1.11	30.00	PASS
		5795	-2.71	-0.91	0.53	1.83	30.00	PASS
	IEEE 802.11ax HE80	5775	-5.83	-3.90	0.43	-1.32	30.00	PASS

U-NII-1 IEEE 802.11a 5180MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11a 5200MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11a 5240MHz	
ANT 1	**ANT 2**

U-NII-1 IEEE 802.11n HT20 5180MHz	
ANT 1	**ANT 2**

U-NII-1 IEEE 802.11n HT20 5200MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11n HT20 5240MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ac VHT20 5180MHz	
ANT 1	**ANT 2**

U-NII-1 IEEE 802.11ac VHT20 5200MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ac VHT20 5240MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11n HT40 5190MHz	
ANT 1	**ANT 2**

U-NII-1 IEEE 802.11n HT40 5230MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ac VHT40 5190MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ac VHT40 5230MHz	
ANT 1	**ANT 2**

U-NII-1 IEEE 802.11ac VHT80 5210MHz	
ANT 1	**ANT 2**

U-NII-1 IEEE 802.11ax HE20 5180MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ax HE20 5200MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ax HE20 5240MHz	
ANT 1	**ANT 2**

U-NII-1 IEEE 802.11ax HE40 5190MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ax HE40 5230MHz	
ANT 1	**ANT 2**
U-NII-1 IEEE 802.11ax HE80 5210MHz	
ANT 1	**ANT 2**

U-NII-2A IEEE 802.11a 5260MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11a 5300MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11a 5320MHz	
ANT 1	**ANT 2**

U-NII-2A IEEE 802.11n HT20 5260MHz	
ANT 1	**ANT 2**

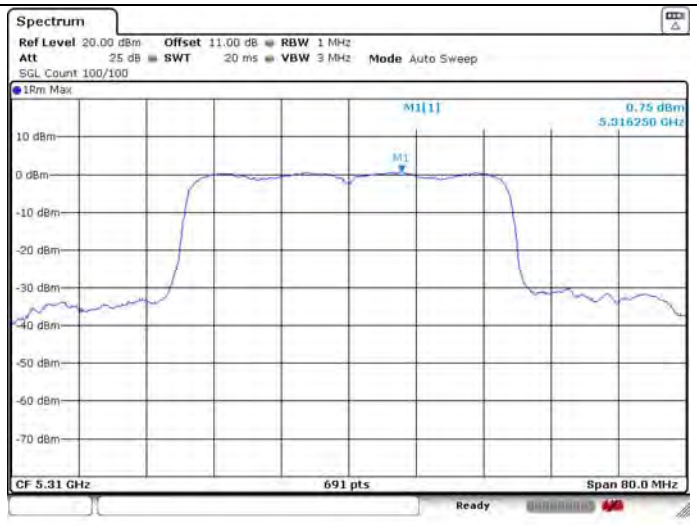
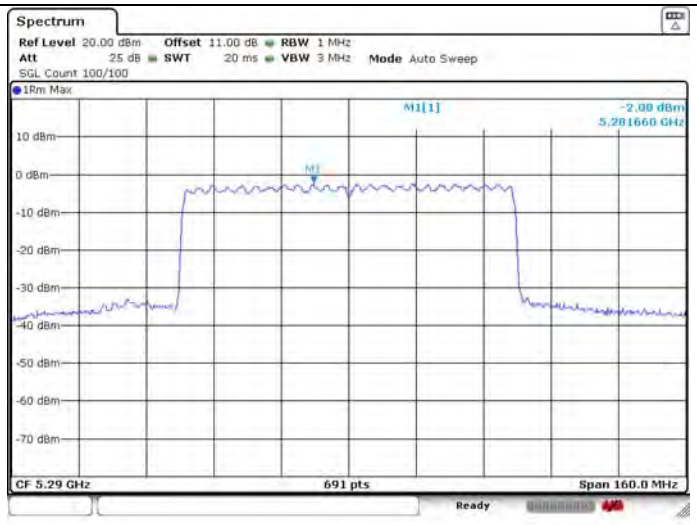
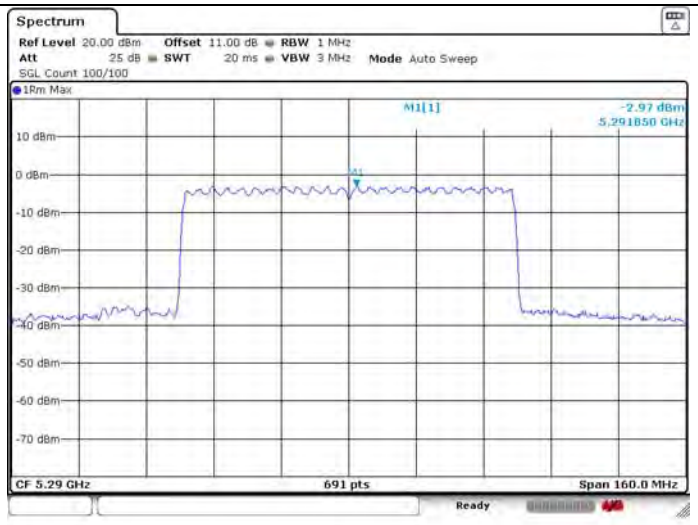
U-NII-2A IEEE 802.11n HT20 5300MHz	
ANT 1	ANT 2
U-NII-2A IEEE 802.11n HT20 5320MHz	
ANT 1	ANT 2
U-NII-2A IEEE 802.11ac VHT20 5260MHz	
ANT 1	ANT 2

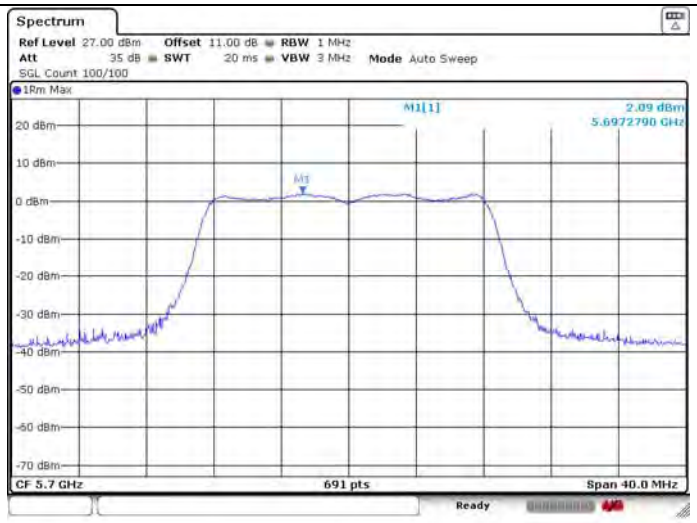
U-NII-2A IEEE 802.11ac VHT20 5300MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11ac VHT20 5320MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11n HT40 5270MHz	
ANT 1	**ANT 2**

U-NII-2A IEEE 802.11n HT40 5310MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11ac VHT40 5270MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11ac VHT40 5310MHz	
ANT 1	**ANT 2**

U-NII-2A IEEE 802.11ac VHT80 5290MHz	
ANT 1	**ANT 2**

U-NII-2A IEEE 802.11ax HE20 5260MHz	
ANT 1	ANT 2
U-NII-2A IEEE 802.11ax HE20 5300MHz	
ANT 1	ANT 2
U-NII-2A IEEE 802.11ax HE20 5320MHz	
ANT 1	ANT 2

U-NII-2A IEEE 802.11ax HE40 5270MHz	
ANT 1	ANT 2
U-NII-2A IEEE 802.11ax HE40 5310MHz	
ANT 1	ANT 2
	
U-NII-2A IEEE 802.11ax HE80 5290MHz	
ANT 1	ANT 2
	

U-NII-2C 802.11a IEEE 5500MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11a 5580MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11a 5700MHz	
ANT 1	**ANT 2**
	

U-NII-2C IEEE 802.11n HT20 5500MHz	
ANT 1	ANT 2
U-NII-2C IEEE 802.11n HT20 5580MHz	
ANT 1	ANT 2
U-NII-2C IEEE 802.11n HT20 5700MHz	
ANT 1	ANT 2

U-NII-2C IEEE 802.11ac VHT20 5500MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11ac VHT20 5580MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11ac VHT20 5700MHz	
ANT 1	**ANT 2**

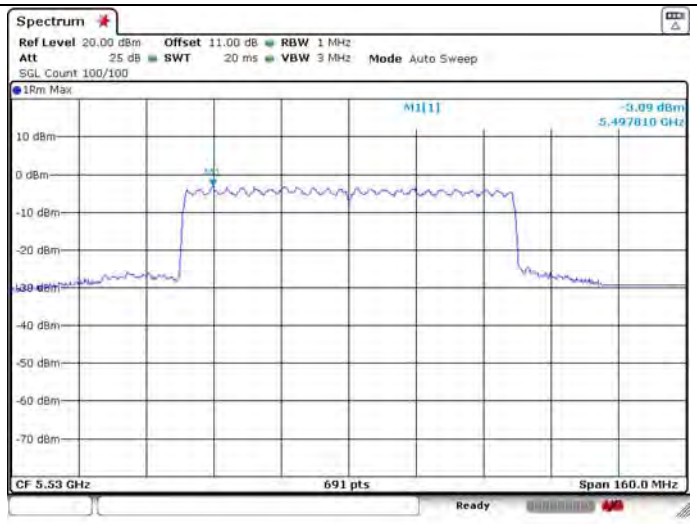
U-NII-2C IEEE 802.11n HT40 5510MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11n HT40 5590MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11n HT40 5670MHz	
ANT 1	**ANT 2**

U-NII-2C IEEE 802.11ac VHT40 5510MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11ac VHT40 5590MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11ac VHT40 5670MHz	
ANT 1	**ANT 2**

U-NII-2C IEEE 802.11ac VHT80 5530MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11ac VHT80 5610MHz	
ANT 1	**ANT 2**

U-NII-2C IEEE 802.11ax HE20 5500MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11ax HE20 5580MHz	
ANT 1	**ANT 2**
U-NII-2C IEEE 802.11ax HE20 5700MHz	
ANT 1	**ANT 2**

U-NII-2C IEEE 802.11ax HE40 5510MHz	
ANT 1	ANT 2
U-NII-2C IEEE 802.11ax HE40 5590MHz	
ANT 1	ANT 2
U-NII-2C IEEE 802.11ax HE40 5670MHz	
ANT 1	ANT 2

U-NII-2C IEEE 802.11ax HE80 5530MHz	
ANT 1	**ANT 2**
	
U-NII-2C IEEE 802.11ax HE80 5610MHz	
ANT 1	**ANT 2**

U-NII-3 IEEE 802.11a 5745MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11a 5785MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11a 5825MHz	
ANT 1	**ANT 2**

U-NII-3 IEEE 802.11n HT20 5745MHz	
ANT 1	**ANT 2**

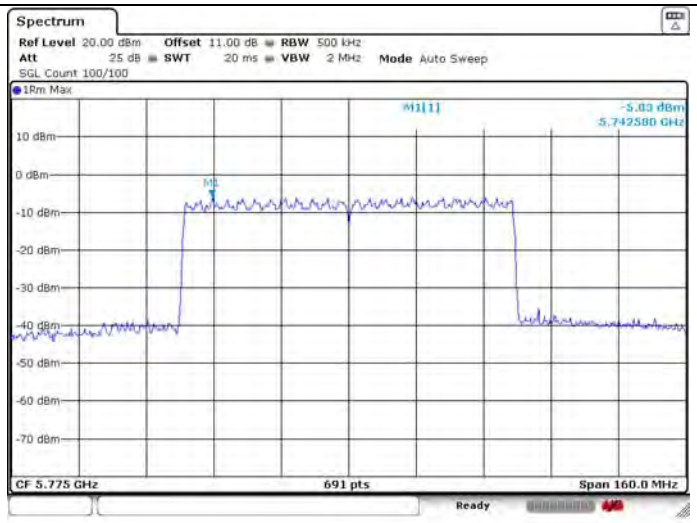
U-NII-3 IEEE 802.11n HT20 5785MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11n HT20 5825MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11ac VHT20 5745MHz	
ANT 1	**ANT 2**

U-NII-3 IEEE 802.11ac VHT20 5785MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11ac VHT20 5825MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11n HT40 5755MHz	
ANT 1	**ANT 2**

U-NII-3 IEEE 802.11n HT40 5795MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11ac VHT40 5755MHz	
ANT 1	**ANT 2**
U-NII-3 IEEE 802.11ac VHT40 5795MHz	
ANT 1	**ANT 2**

U-NII-3 IEEE 802.11ac VHT80 5775MHz	
ANT 1	**ANT 2**

U-NII-2A IEEE 802.11ax HE20 5745MHz	
ANT 1	ANT 2
U-NII-2A IEEE 802.11ax HE20 5785MHz	
ANT 1	ANT 2
U-NII-2A IEEE 802.11ax HE20 5825MHz	
ANT 1	ANT 2

U-NII-2A IEEE 802.11ax HE40 5755MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11ax HE40 5795MHz	
ANT 1	**ANT 2**
U-NII-2A IEEE 802.11ax HE80 5775MHz	
ANT 1	**ANT 2**
	

6. UNWANTED EMISSIONS AND BAND EDGE

6.1. Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(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 in the 5.725-5.85 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.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 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
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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])

Note：

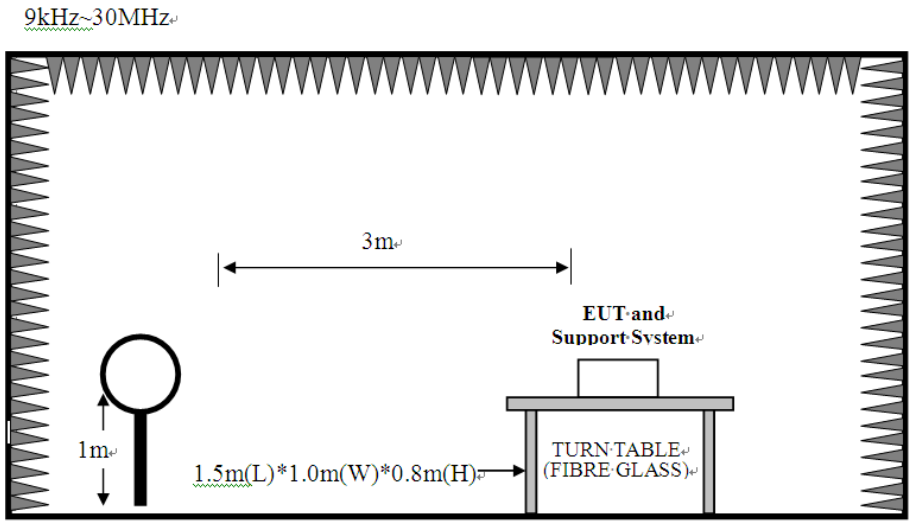
1. dBμV/m=20Log(μV/m)
2. Above 1GHz the formula is used to convert the EIRP to field strength

   E[dBμV/m] = EIRP[dBm] – 20 log (d[m]) + 104.77,

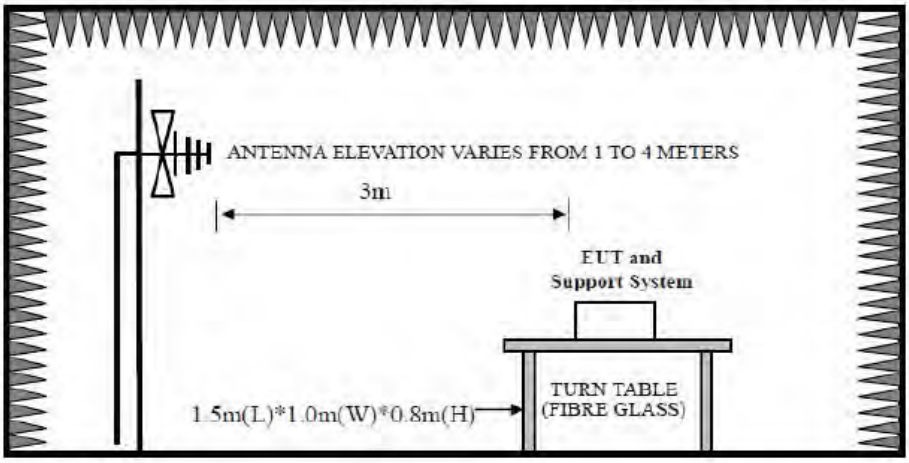
   where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.

   for example,3m field strength(dBμV/m)=EIRP-20log(3)+104.77=EIRP+95.2

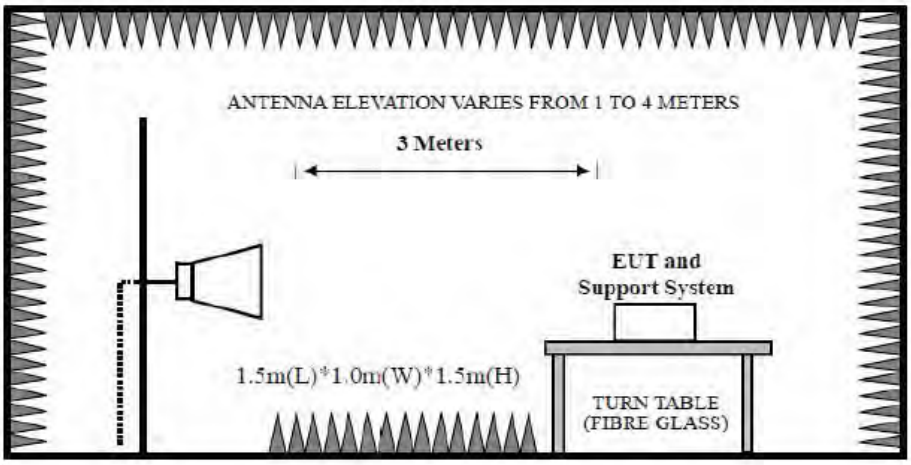
6.2. Test Setup



30~1000MHz



Above 1GHz



6.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle≥98%,VBW=10Hz Duty cycle＜98%,VBW≥1/T Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note : T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.7 for the on-time time.

6.4. Test Procedure

a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
c. Set the EUT transmit continuously with maximum output power.
d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
f. Spectrum analyzer setting parameters in accordance with section 6.3.
g. Repeat above procedures until all channels were measured.
h. Record the results in the test report.
i. IEEE 802.11a, IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80, IEEE 802.11ax HE20, IEEE 802.11ax HE40, IEEE 802.11ax HE80 all have been tested, only worst case 802.11ax HE20 is recorded.

6.5. Test Result

Radiated Emissions Below 1GHz

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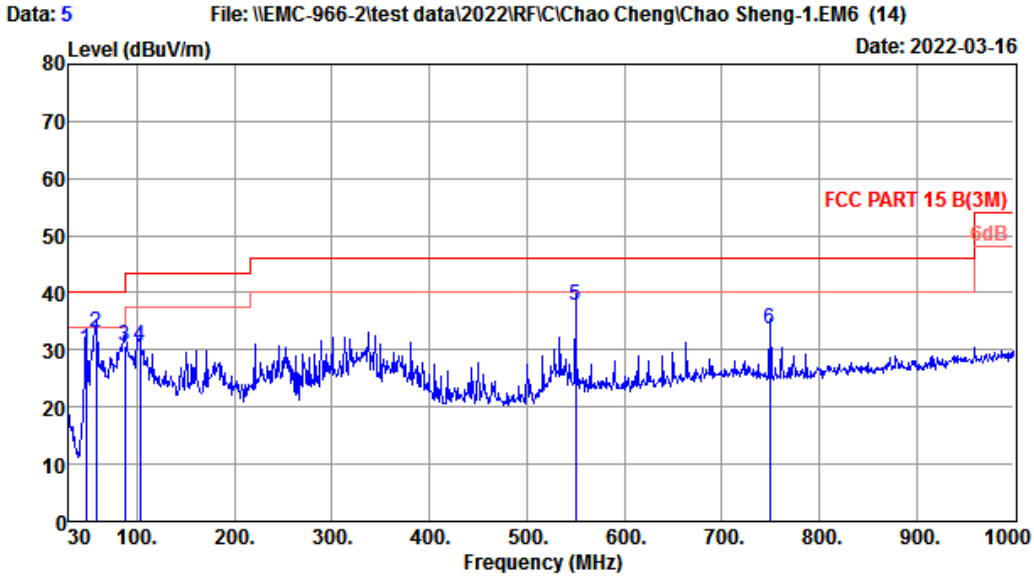

Site no. : 2# 966 chamber Data no. : 5
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:21.6℃;Humi:52%;Press:101.52kPa
Engineer : XJ
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	47.460	9.67	0.27	20.23	30.17	40.00	9.83	QP
2	58.130	5.70	0.38	26.95	33.03	40.00	6.97	QP
3	87.230	8.78	0.69	21.30	30.77	40.00	9.23	QP
4	102.750	10.20	0.81	19.59	30.60	43.50	12.90	QP
5	549.920	19.60	2.43	15.70	37.73	46.00	8.27	QP
6	749.740	22.10	3.15	8.29	33.54	46.00	12.46	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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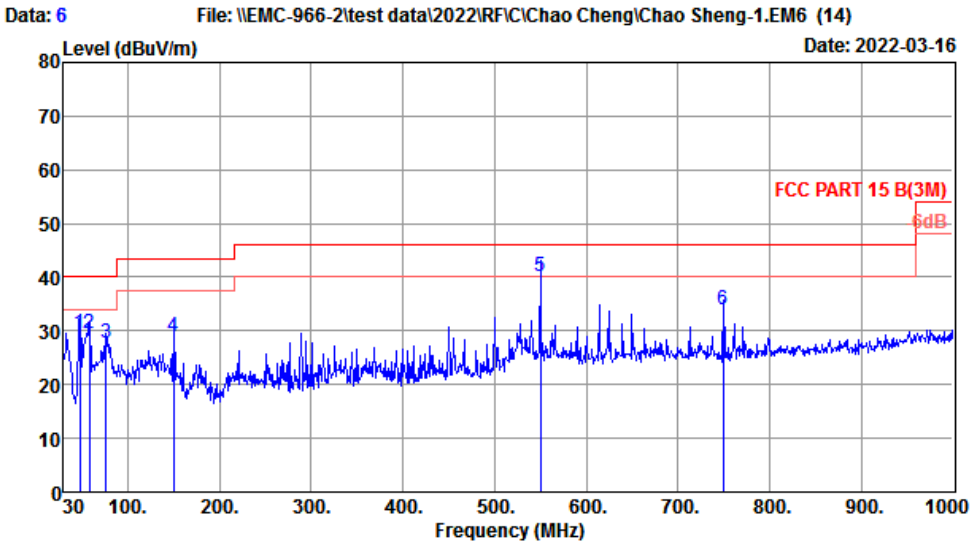

Site no. : 2# 966 chamber Data no. : 6
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:21.6℃;Humi:52%;Press:101.52kPa
Engineer : XJ
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	47.460	9.67	0.27	19.56	29.50	40.00	10.50	QP
2	58.130	5.70	0.38	23.51	29.59	40.00	10.41	QP
3	76.560	7.00	0.58	20.05	27.63	40.00	12.37	QP
4	150.280	11.70	0.99	16.21	28.90	43.50	14.60	QP
5	549.920	19.60	2.43	18.01	40.04	46.00	5.96	QP
6	749.740	22.10	3.15	8.55	33.80	46.00	12.20	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test,only the worst case was reported.

Radiated Emissions Above 1G

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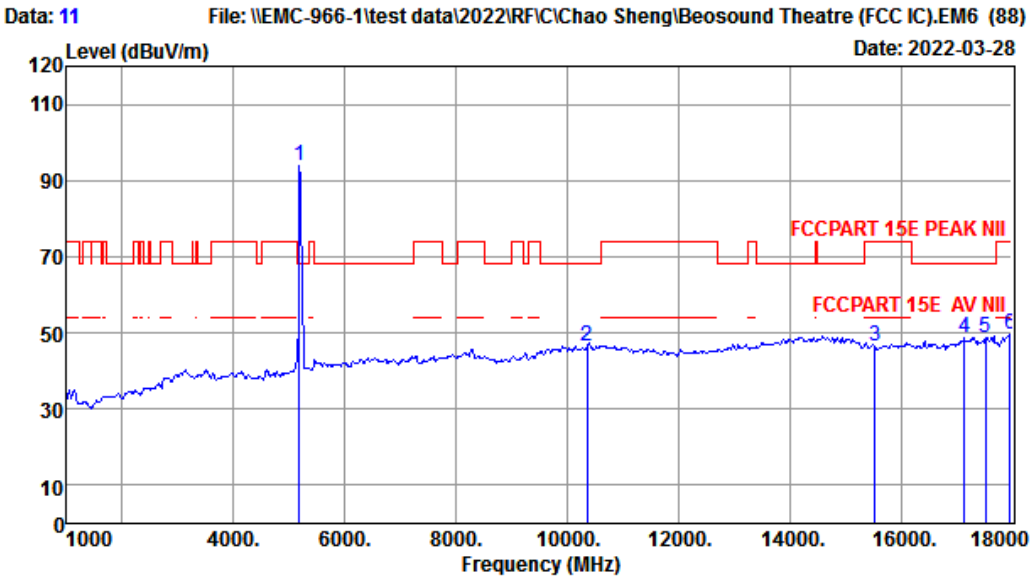

Site no. : 1# 966 Chamber Data no. : 11
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5180MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.000	32.20	3.52	34.63	92.80	93.89	68.20	-25.69	Peak
2	10360.000	39.27	5.99	34.31	35.62	46.57	68.20	21.63	Peak
3	15540.000	40.31	6.46	34.39	34.03	46.41	74.00	27.59	Peak
4	17150.000	42.12	7.57	34.38	33.32	48.63	68.20	19.57	Peak
5	17524.000	45.10	7.93	34.35	30.19	48.87	68.20	19.33	Peak
6	17966.000	48.63	8.22	34.30	27.10	49.65	74.00	24.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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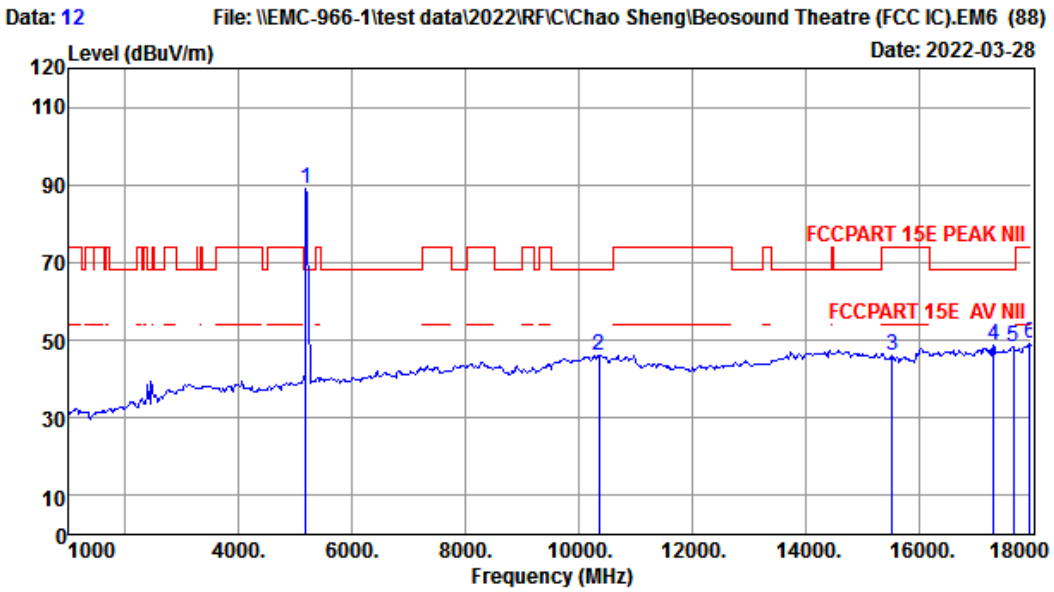

Site no. : 1# 966 Chamber Data no. : 12
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5180MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.000	32.20	3.52	34.63	87.89	88.98	68.20	-20.78	Peak
2	10360.000	39.27	5.99	34.31	35.17	46.12	68.20	22.08	Peak
3	15540.000	40.31	6.46	34.39	33.85	46.23	74.00	27.77	Peak
4	17320.000	43.48	7.74	34.37	31.69	48.54	68.20	19.66	Peak
5	17677.000	46.32	8.03	34.33	28.37	48.39	68.20	19.81	Peak
6	17966.000	48.63	8.22	34.30	26.67	49.22	74.00	24.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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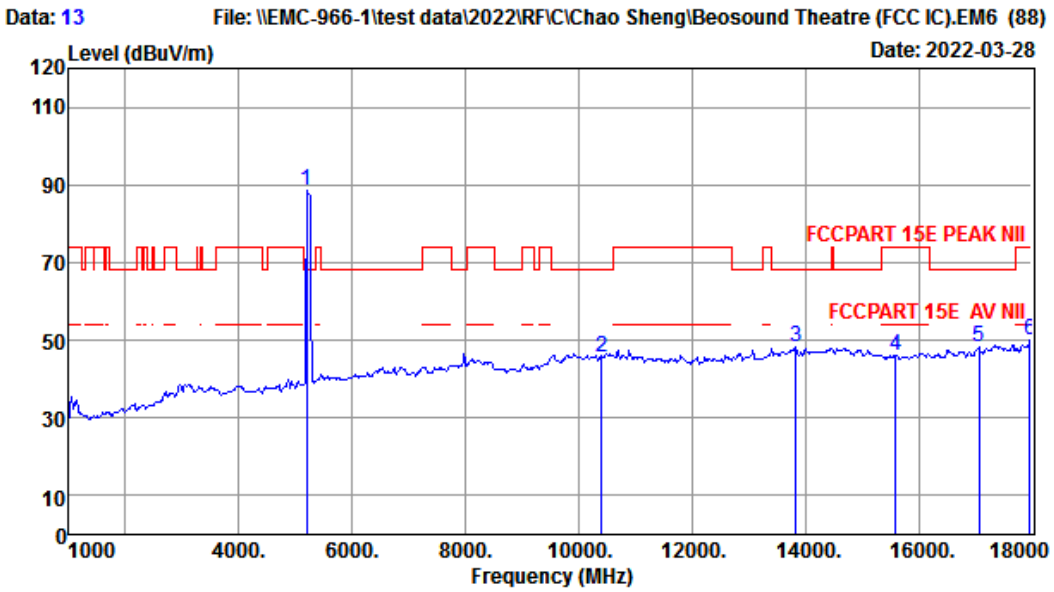

Site no. : 1# 966 Chamber Data no. : 13
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5200MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.000	32.24	3.53	34.62	87.41	88.56	68.20	-20.36	Peak
2	10400.000	39.31	5.99	34.32	34.80	45.78	68.20	22.42	Peak
3	13835.000	40.81	6.46	34.32	35.29	48.24	68.20	19.96	Peak
4	15600.000	40.24	6.53	34.36	33.68	46.09	74.00	27.91	Peak
5	17065.000	41.44	7.49	34.39	33.64	48.18	68.20	20.02	Peak
6	17966.000	48.63	8.22	34.30	27.30	49.85	74.00	24.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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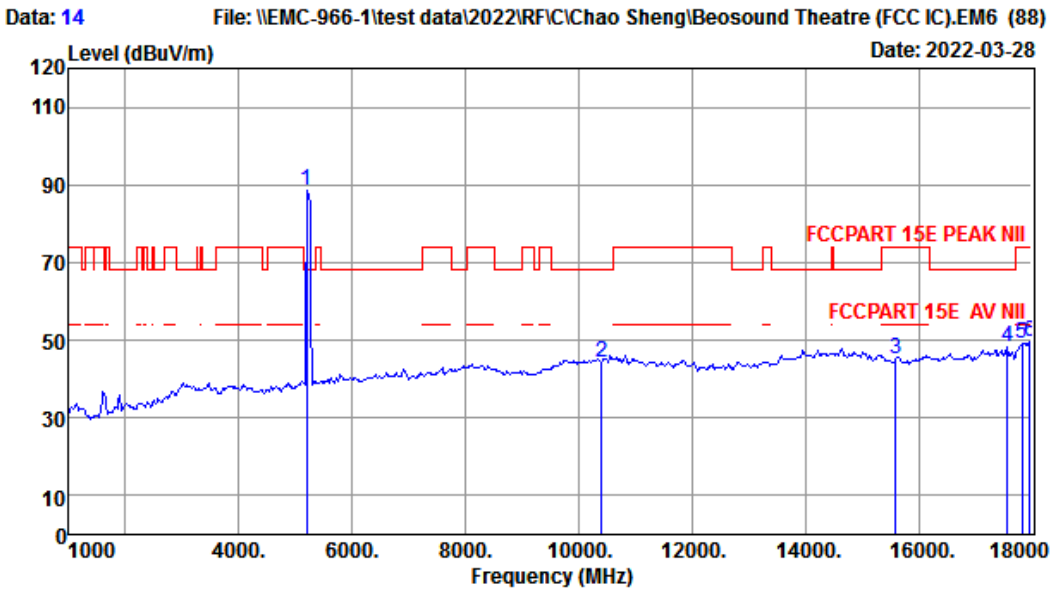

Site no. : 1# 966 Chamber Data no. : 14
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5200MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.000	32.24	3.53	34.62	87.30	88.45	68.20	-20.25	Peak
2	10400.000	39.31	5.99	34.32	33.49	44.47	68.20	23.73	Peak
3	15600.000	40.24	6.53	34.36	32.61	45.02	74.00	28.98	Peak
4	17575.000	45.51	7.96	34.34	29.22	48.35	68.20	19.85	Peak
5	17830.000	47.54	8.13	34.32	27.99	49.34	74.00	24.66	Peak
6	17966.000	48.63	8.22	34.30	27.15	49.70	74.00	24.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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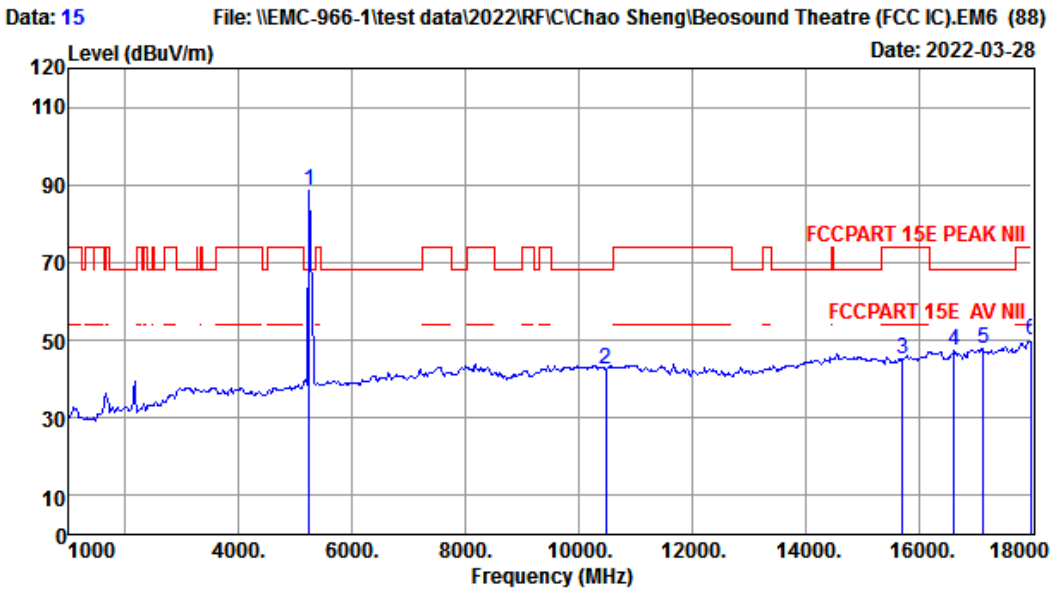

Site no. : 1# 966 Chamber Data no. : 15
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5240MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.000	32.31	3.55	34.61	87.46	88.71	68.20	-20.51	Peak
2	10480.000	39.39	6.02	34.35	31.49	42.55	68.20	25.65	Peak
3	15720.000	40.10	6.65	34.31	32.70	45.14	74.00	28.86	Peak
4	16623.000	40.49	7.19	34.33	33.96	47.31	68.20	20.89	Peak
5	17150.000	42.12	7.57	34.38	32.56	47.87	68.20	20.33	Peak
6	18000.000	48.90	8.24	34.30	27.41	50.25	74.00	23.75	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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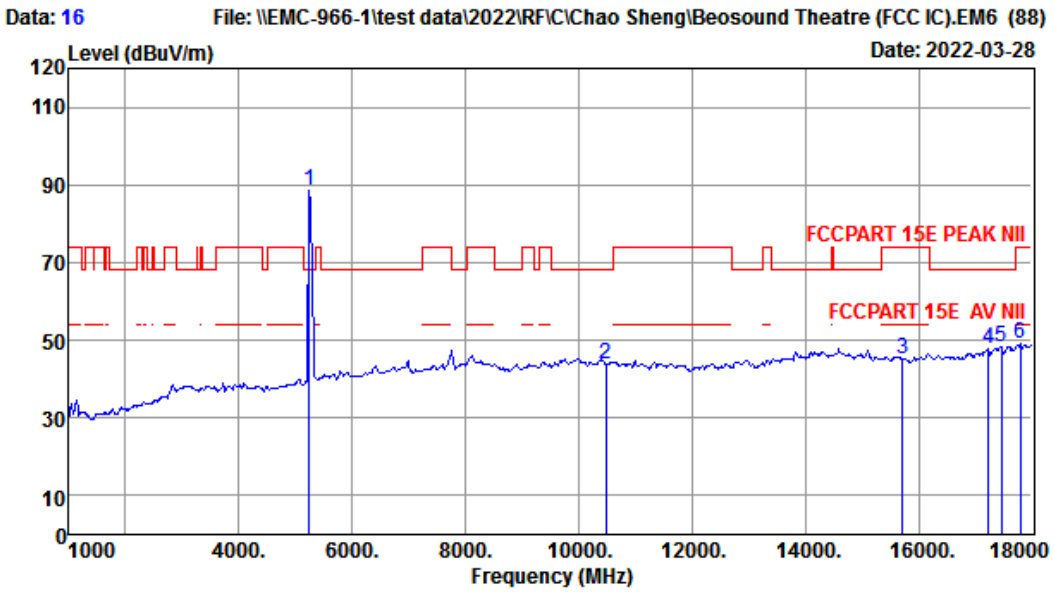

Site no. : 1# 966 Chamber Data no. : 16
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5240MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.000	32.31	3.55	34.61	87.45	88.70	68.20	-20.50	Peak
2	10480.000	39.39	6.02	34.35	32.65	43.71	68.20	24.49	Peak
3	15720.000	40.10	6.65	34.31	32.60	45.04	74.00	28.96	Peak
4	17235.000	42.80	7.65	34.38	31.65	47.72	68.20	20.48	Peak
5	17456.000	44.56	7.87	34.35	30.25	48.33	68.20	19.87	Peak
6	17796.000	47.27	8.11	34.32	27.88	48.94	74.00	25.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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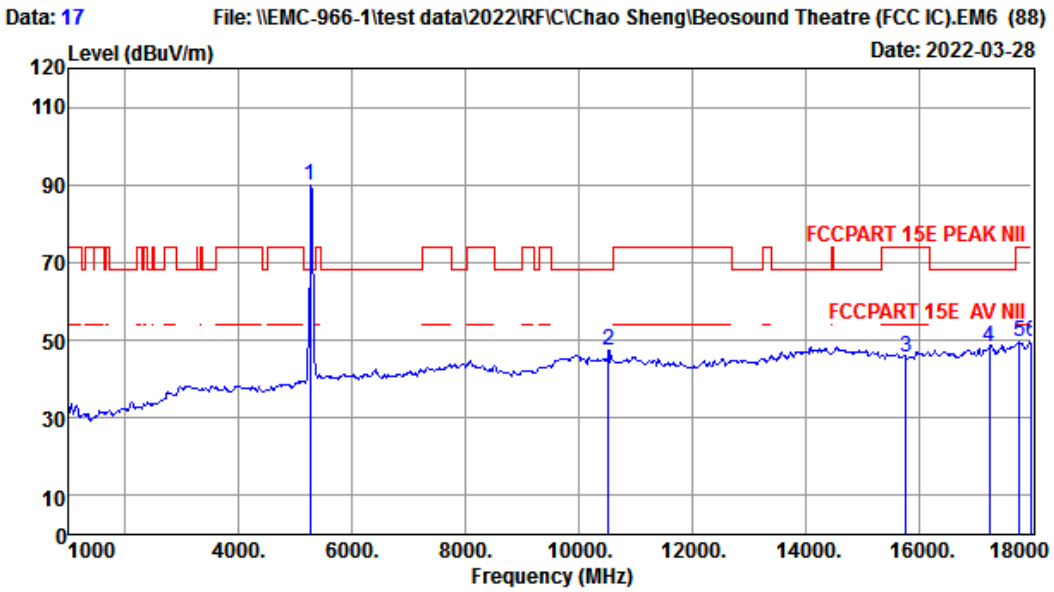

Site no. : 1# 966 Chamber Data no. : 17
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5260MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5260.000	32.39	3.57	34.59	88.71	90.08	68.20	-21.88	Peak
2	10520.000	39.43	6.02	34.36	36.26	47.35	68.20	20.85	Peak
3	15780.000	40.05	6.69	34.29	33.10	45.55	74.00	28.45	Peak
4	17252.000	42.93	7.67	34.37	32.06	48.29	68.20	19.91	Peak
5	17779.000	47.14	8.10	34.32	28.72	49.64	74.00	24.36	Peak
6	18000.000	48.90	8.24	34.30	26.65	49.49	74.00	24.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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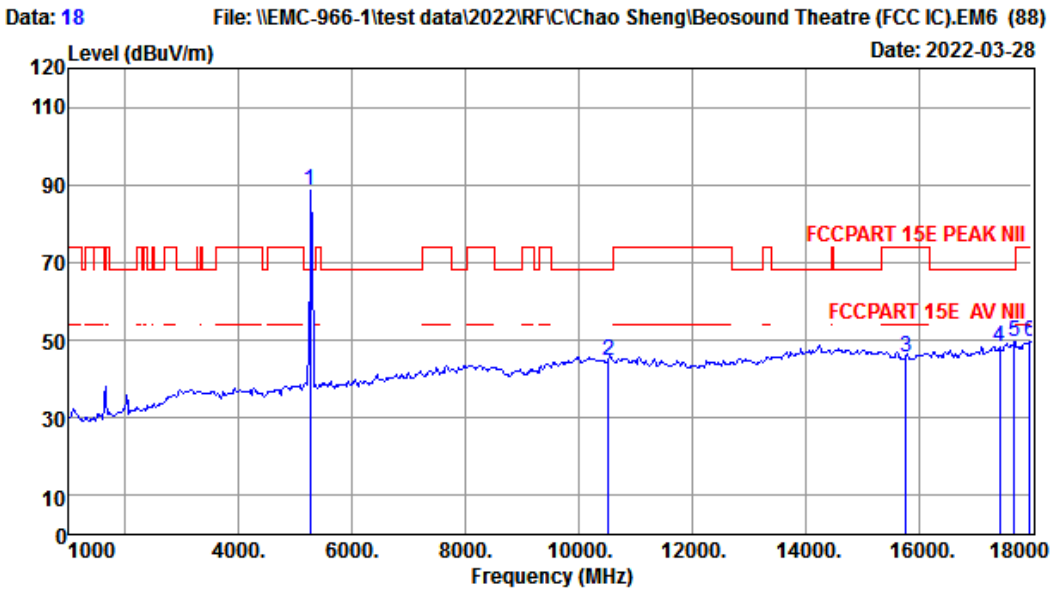

Site no. : 1# 966 Chamber Data no. : 18
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5260MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5260.000	32.39	3.57	34.59	87.07	88.44	68.20	-20.24	Peak
2	10520.000	39.43	6.02	34.36	33.75	44.84	68.20	23.36	Peak
3	15780.000	40.05	6.69	34.29	33.33	45.78	74.00	28.22	Peak
4	17439.000	44.43	7.85	34.36	30.44	48.36	68.20	19.84	Peak
5	17694.000	46.46	8.04	34.33	29.36	49.53	68.20	18.67	Peak
6	17966.000	48.63	8.22	34.30	27.07	49.62	74.00	24.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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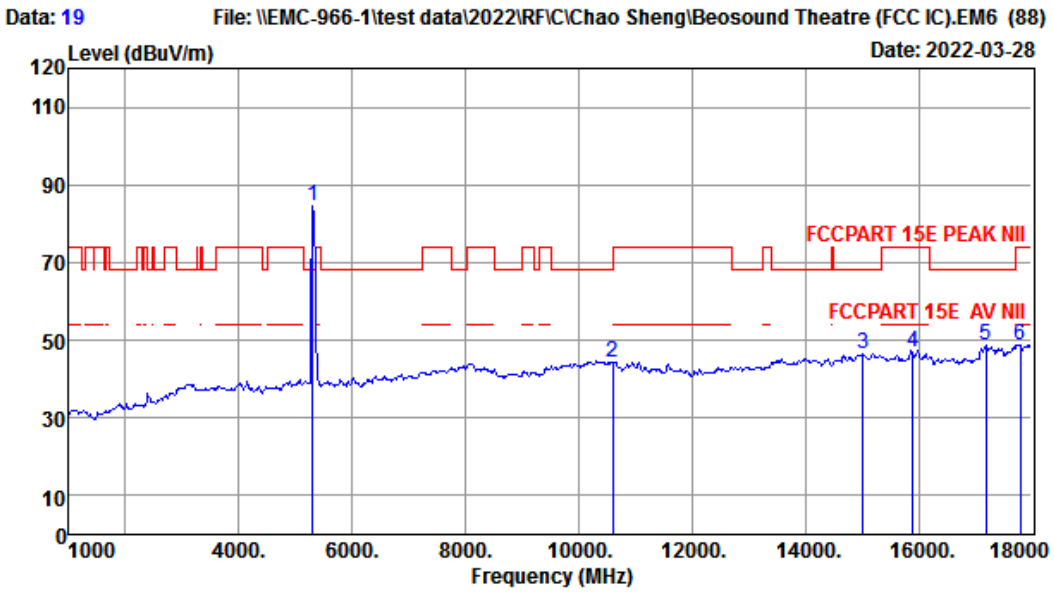

Site no. : 1# 966 Chamber Data no. : 19
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5300MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5300.000	32.46	3.59	34.58	82.90	84.37	68.20	-16.17	Peak
2	10600.000	39.51	6.04	34.38	33.14	44.31	68.20	23.89	Peak
3	15025.000	40.88	6.80	34.59	33.23	46.32	68.20	21.88	Peak
4	15900.000	39.91	6.81	34.24	34.30	46.78	74.00	27.22	Peak
5	17184.000	42.39	7.60	34.38	33.16	48.77	68.20	19.43	Peak
6	17796.000	47.27	8.11	34.32	27.54	48.60	74.00	25.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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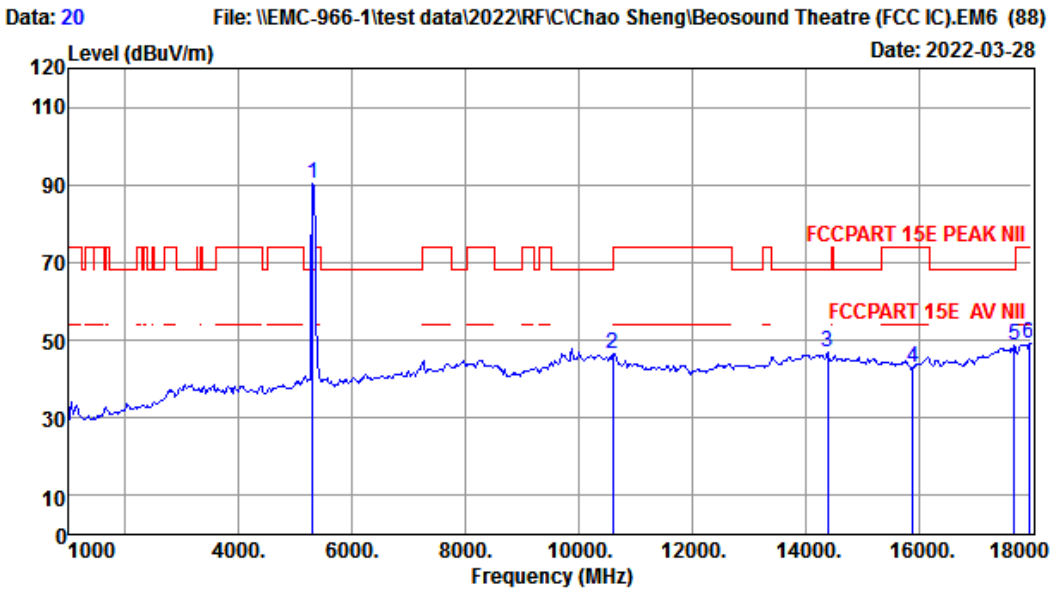

Site no. : 1# 966 Chamber Data no. : 20
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5300MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5300.000	32.46	3.59	34.58	88.65	90.12	68.20	-21.92	Peak
2	10600.000	39.51	6.04	34.38	35.28	46.45	68.20	21.75	Peak
3	14396.000	41.02	6.82	34.42	33.34	46.76	68.20	21.44	Peak
4	15900.000	39.91	6.81	34.24	30.37	42.85	74.00	31.15	Peak
5	17694.000	46.46	8.04	34.33	28.36	48.53	68.20	19.67	Peak
6	17949.000	48.49	8.21	34.31	26.87	49.26	74.00	24.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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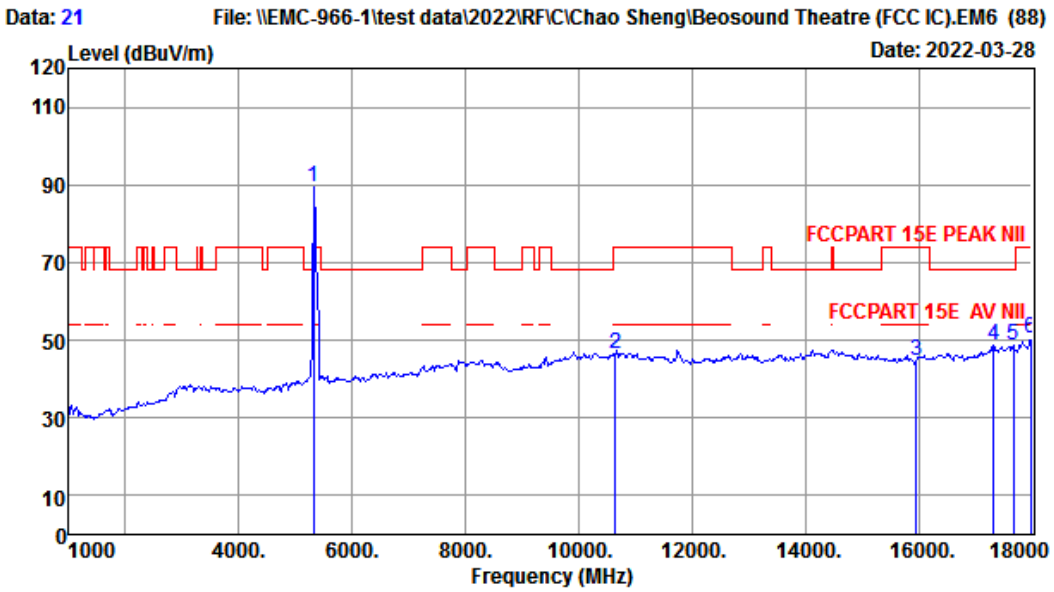

Site no. : 1# 966 Chamber Data no. : 21
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5320MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5320.000	32.50	3.60	34.57	87.87	89.40	68.20	-21.20	Peak
2	10640.000	39.54	6.04	34.39	35.30	46.49	74.00	27.51	Peak
3	15960.000	39.84	6.88	34.21	32.03	44.54	74.00	29.46	Peak
4	17320.000	43.48	7.74	34.37	31.68	48.53	68.20	19.67	Peak
5	17677.000	46.32	8.03	34.33	28.60	48.62	68.20	19.58	Peak
6	17983.000	48.76	8.23	34.30	27.57	50.26	74.00	23.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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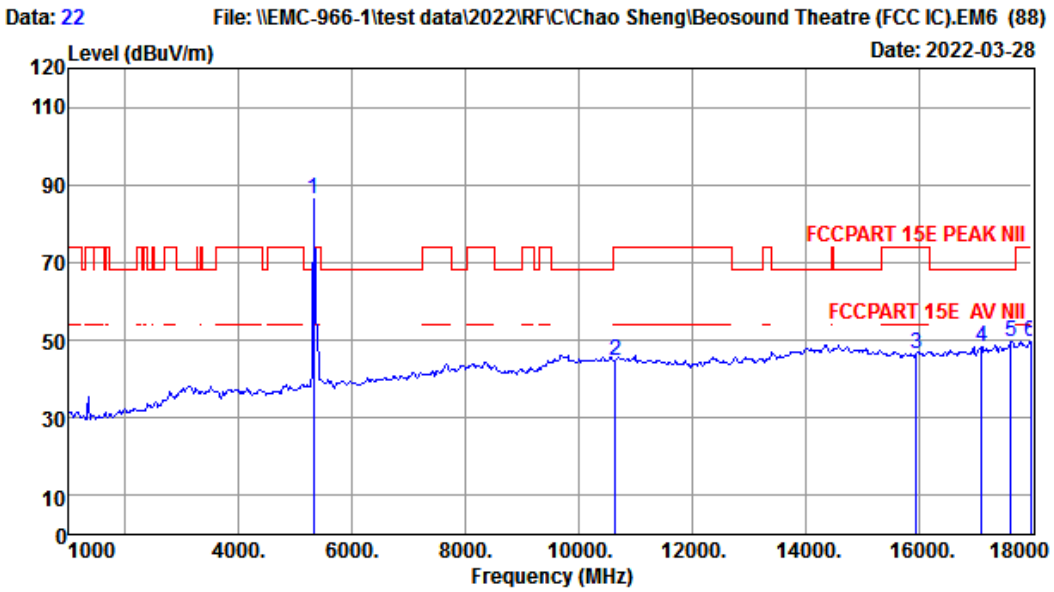

Site no. : 1# 966 Chamber Data no. : 22
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5320MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5320.000	32.50	3.60	34.57	84.70	86.23	68.20	-18.03	Peak
2	10640.000	39.54	6.04	34.39	33.70	44.89	74.00	29.11	Peak
3	15960.000	39.84	6.88	34.21	33.97	46.48	74.00	27.52	Peak
4	17116.000	41.85	7.54	34.39	33.32	48.32	68.20	19.88	Peak
5	17626.000	45.92	8.00	34.34	29.86	49.44	68.20	18.76	Peak
6	17983.000	48.76	8.23	34.30	27.09	49.78	74.00	24.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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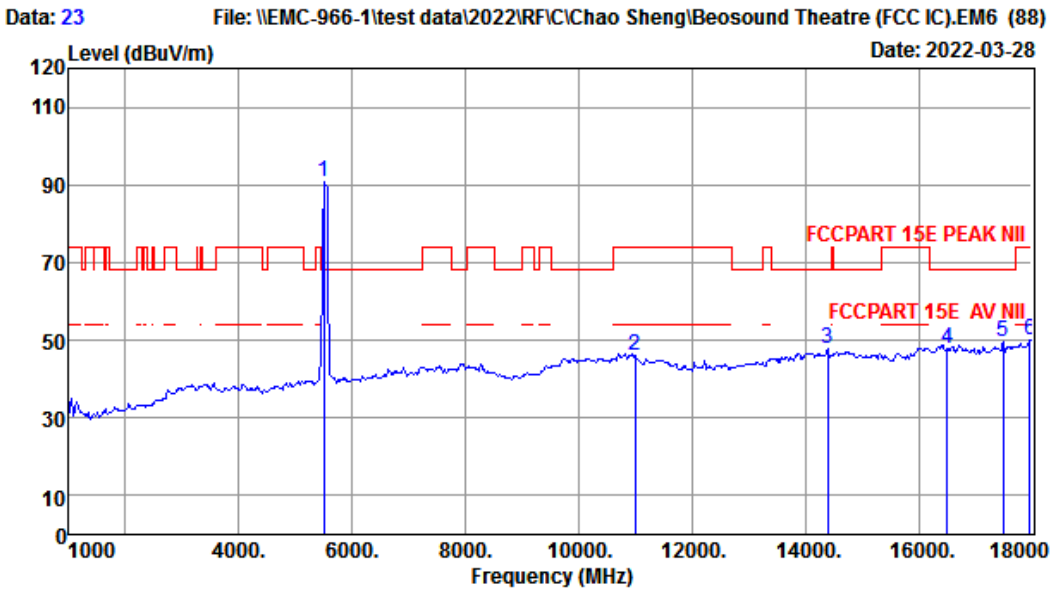

Site no. : 1# 966 Chamber Data no. : 23
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5500MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5500.000	32.90	3.71	34.50	88.60	90.71	68.20	-22.51	Peak
2	11000.000	39.90	6.11	34.50	34.42	45.93	74.00	28.07	Peak
3	14396.000	41.02	6.82	34.42	34.39	47.81	68.20	20.39	Peak
4	16500.000	40.36	7.12	34.30	34.53	47.71	68.20	20.49	Peak
5	17490.000	44.83	7.90	34.35	31.41	49.79	68.20	18.41	Peak
6	17966.000	48.63	8.22	34.30	27.46	50.01	74.00	23.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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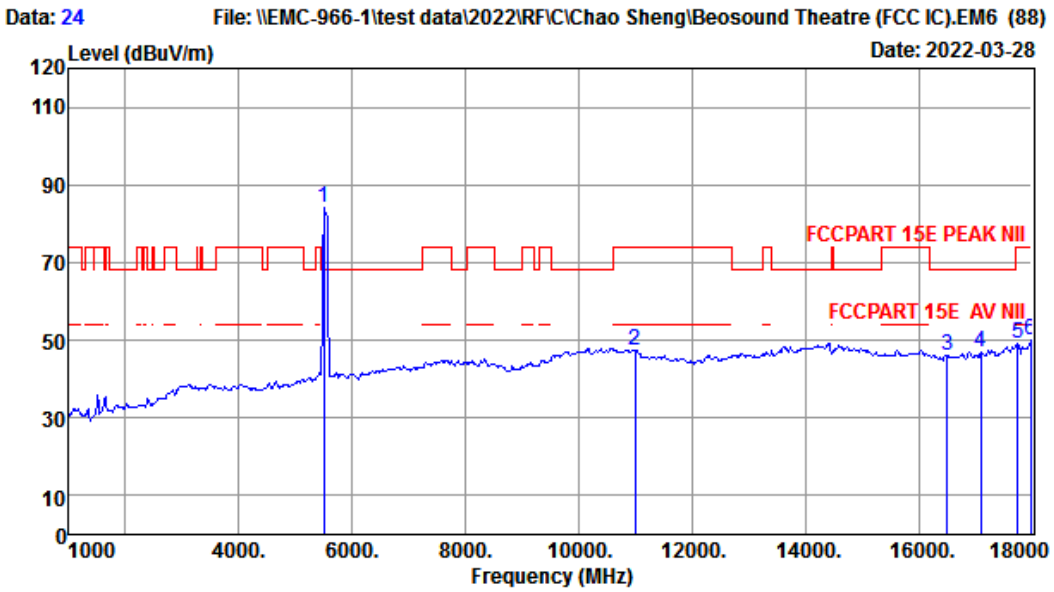


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Site no.      : 1# 966 Chamber              Data no.  : 24
Dis. / Ant.   : 3m   ANT9120D 1-18G         Ant. pol. : VERTICAL
Limit         : FCCPART 15E PEAK NII
Env. / Ins.   : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer      : JBR
EUT           : Sound Bar
Power         : AC 120V/60Hz
M/N           : Beosound Theatre
Test Mode     : IEEE 802.11ax HE20 TX 5500MHz
                ANT1+ANT2
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5500.000	32.90	3.71	34.50	82.14	84.25	68.20	-16.05	Peak
2	11000.000	39.90	6.11	34.50	35.81	47.32	74.00	26.68	Peak
3	16500.000	40.36	7.12	34.30	32.98	46.16	68.20	22.04	Peak
4	17099.000	41.71	7.52	34.39	32.31	47.15	68.20	21.05	Peak
5	17745.000	46.87	8.07	34.33	28.33	48.94	74.00	25.06	Peak
6	17983.000	48.76	8.23	34.30	27.29	49.98	74.00	24.02	Peak

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Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
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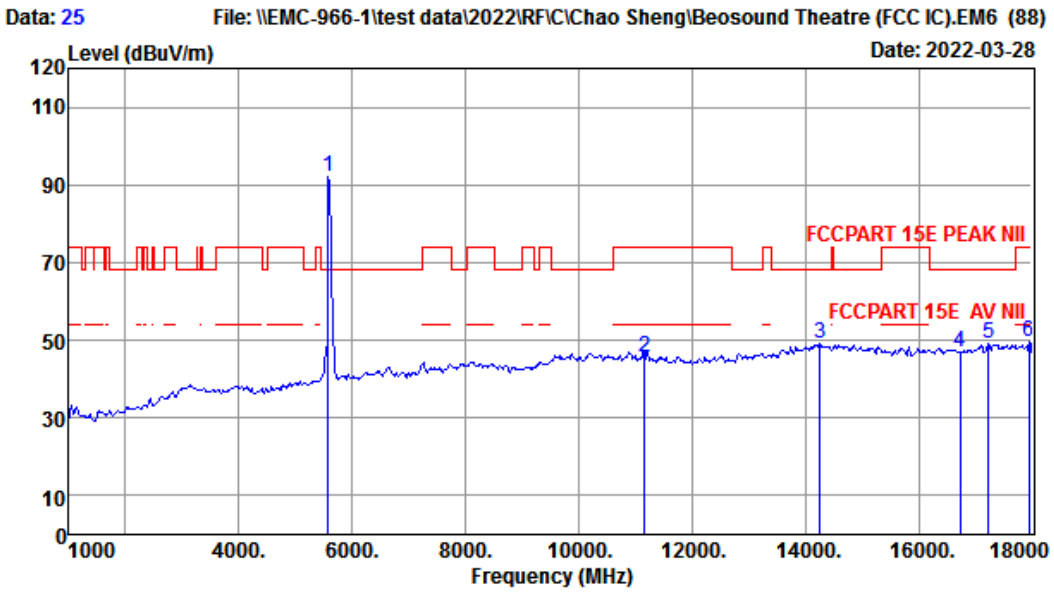

Site no. : 1# 966 Chamber Data no. : 25
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5580MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5580.000	32.89	3.79	34.47	90.10	92.31	68.20	-24.11	Peak
2	11160.000	39.90	6.12	34.55	34.22	45.69	74.00	28.31	Peak
3	14260.000	41.05	6.72	34.38	35.69	49.08	68.20	19.12	Peak
4	16740.000	40.62	7.26	34.35	33.47	47.00	68.20	21.20	Peak
5	17235.000	42.80	7.65	34.38	33.21	49.28	68.20	18.92	Peak
6	17949.000	48.49	8.21	34.31	27.08	49.47	74.00	24.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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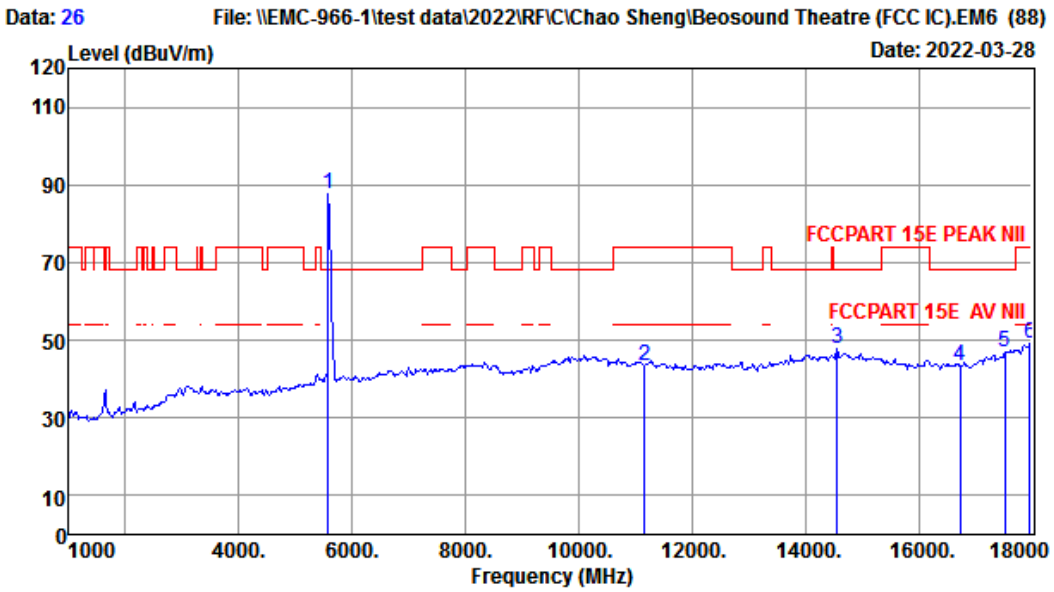

Site no. : 1# 966 Chamber Data no. : 26
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5580MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5580.000	32.89	3.79	34.47	85.25	87.46	68.20	-19.26	Peak
2	11160.000	39.90	6.12	34.55	31.77	43.24	74.00	30.76	Peak
3	14566.000	40.99	6.89	34.47	34.22	47.63	68.20	20.57	Peak
4	16740.000	40.62	7.26	34.35	30.02	43.55	68.20	24.65	Peak
5	17524.000	45.10	7.93	34.35	28.45	47.13	68.20	21.07	Peak
6	17966.000	48.63	8.22	34.30	26.45	49.00	74.00	25.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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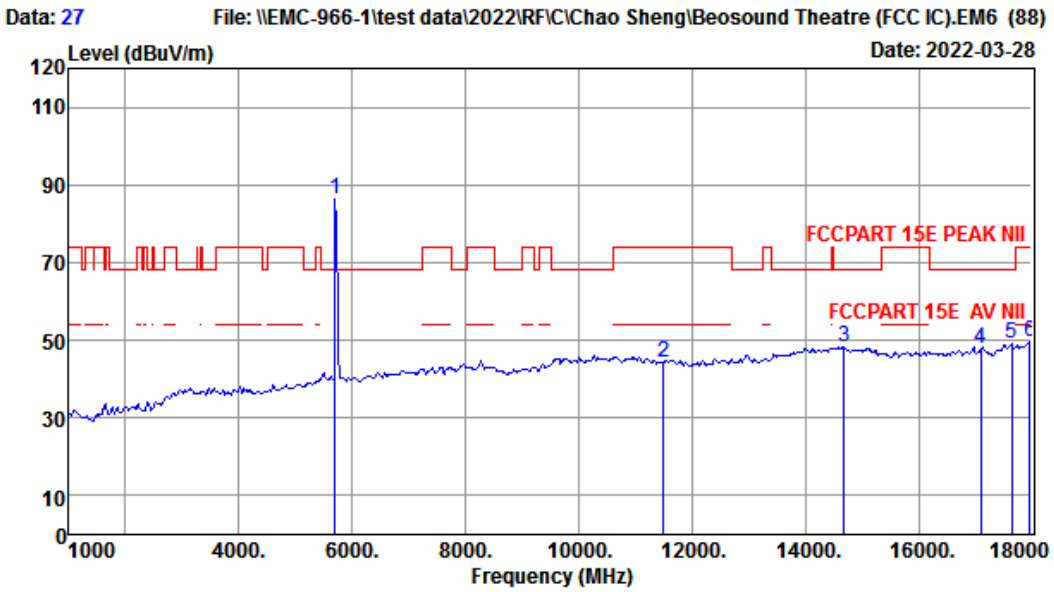

Site no. : 1# 966 Chamber Data no. : 27
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5700MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5700.000	32.86	3.94	34.42	83.81	86.19	68.20	-17.99	Peak
2	11490.000	39.90	6.15	34.65	33.04	44.44	74.00	29.56	Peak
3	14685.000	40.96	6.87	34.50	35.14	48.47	68.20	19.73	Peak
4	17100.000	41.71	7.52	34.39	33.04	47.88	68.20	20.32	Peak
5	17643.000	46.05	8.01	34.34	29.29	49.01	68.20	19.19	Peak
6	17966.000	48.63	8.22	34.30	26.92	49.47	74.00	24.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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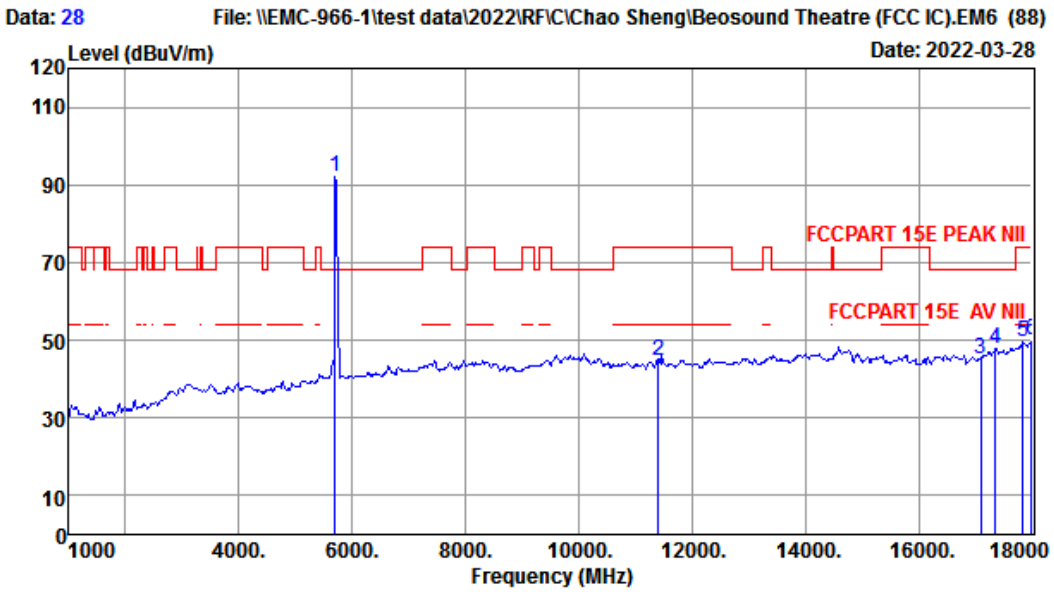

Site no. : 1# 966 Chamber Data no. : 28
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5700MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5700.000	32.86	3.94	34.42	89.69	92.07	68.20	-23.87	Peak
2	11400.000	39.90	6.14	34.62	33.15	44.57	74.00	29.43	Peak
3	17100.000	41.71	7.52	34.39	30.48	45.32	68.20	22.88	Peak
4	17354.000	43.75	7.77	34.36	30.74	47.90	68.20	20.30	Peak
5	17847.000	47.68	8.14	34.32	27.97	49.47	74.00	24.53	Peak
6	18000.000	48.90	8.24	34.30	27.36	50.20	74.00	23.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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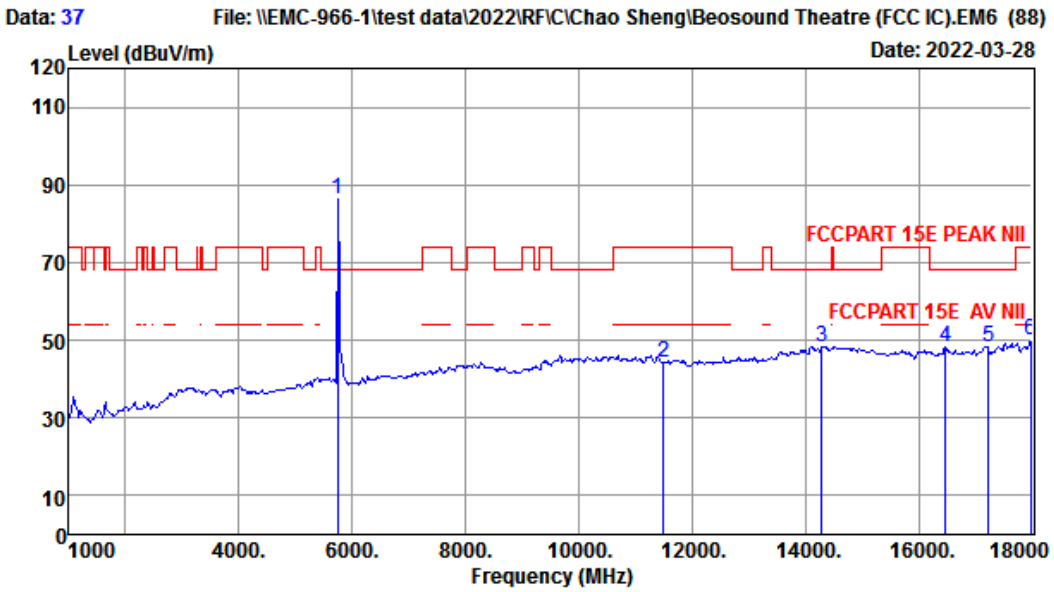

Site no. : 1# 966 Chamber Data no. : 37
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5745MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.000	32.85	4.00	34.40	84.01	86.46	68.20	-18.26	Peak
2	11490.000	39.90	6.15	34.65	32.88	44.28	74.00	29.72	Peak
3	14294.000	41.04	6.75	34.39	34.97	48.37	68.20	19.83	Peak
4	16470.000	40.32	7.11	34.29	34.98	48.12	68.20	20.08	Peak
5	17235.000	42.80	7.65	34.38	32.35	48.42	68.20	19.78	Peak
6	17983.000	48.76	8.23	34.30	27.26	49.95	74.00	24.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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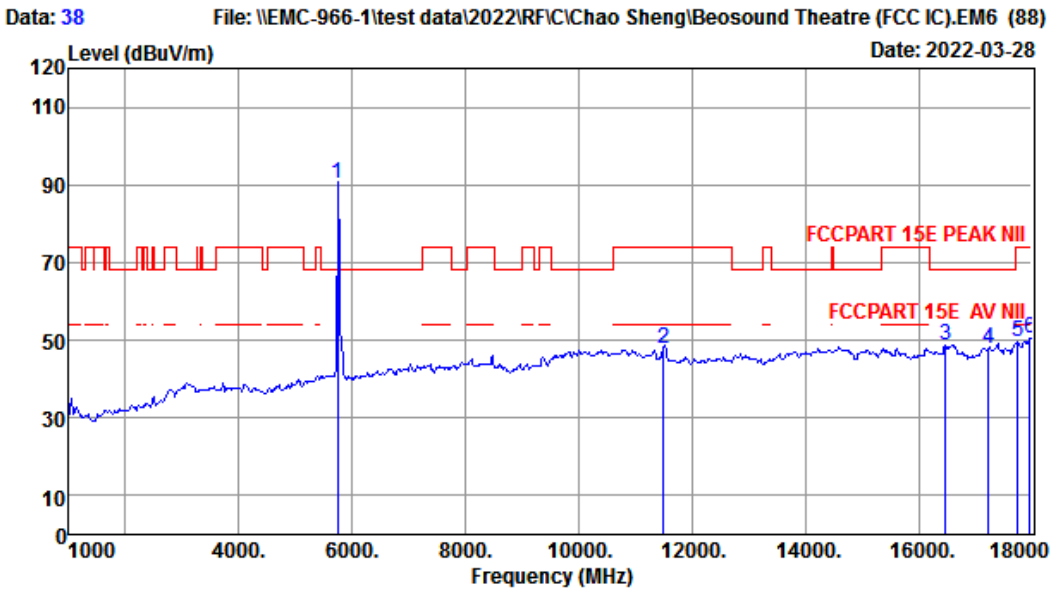

Site no. : 1# 966 Chamber Data no. : 38
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5745MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.000	32.85	4.00	34.40	88.09	90.54	68.20	-22.34	Peak
2	11490.000	39.90	6.15	34.65	36.26	47.66	74.00	26.34	Peak
3	16470.000	40.32	7.11	34.29	35.65	48.79	68.20	19.41	Peak
4	17235.000	42.80	7.65	34.38	31.72	47.79	68.20	20.41	Peak
5	17745.000	46.87	8.07	34.33	29.15	49.76	74.00	24.24	Peak
6	17966.000	48.63	8.22	34.30	27.76	50.31	74.00	23.69	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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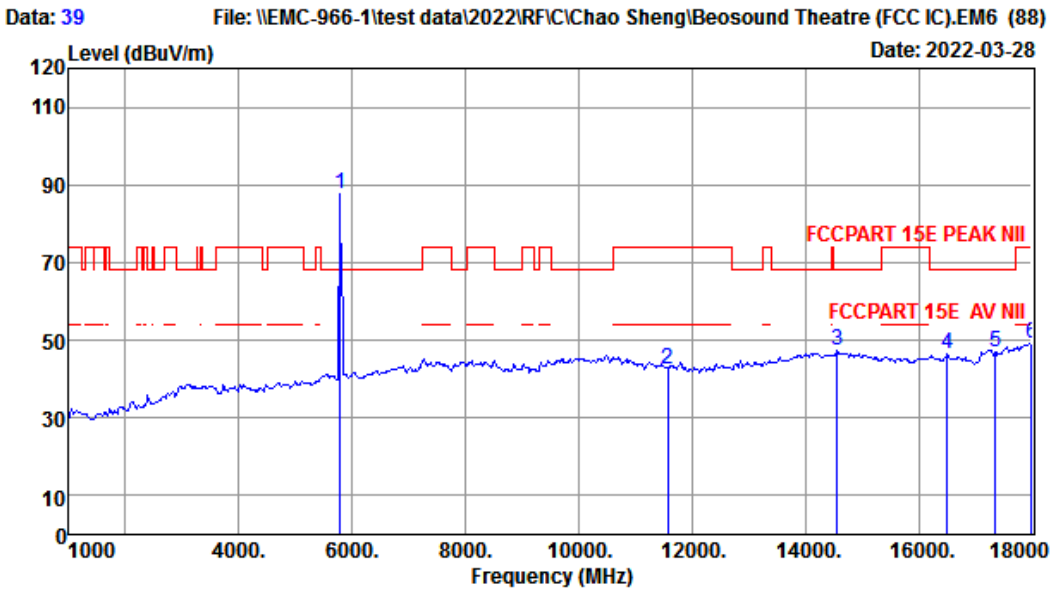

Site no. : 1# 966 Chamber Data no. : 39
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5785MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.000	32.84	4.05	34.39	85.35	87.85	68.20	-19.65	Peak
2	11570.000	39.90	6.12	34.67	31.24	42.59	74.00	31.41	Peak
3	14566.000	40.99	6.89	34.47	33.94	47.35	68.20	20.85	Peak
4	16504.000	40.36	7.12	34.30	33.50	46.68	68.20	21.52	Peak
5	17355.000	43.75	7.77	34.36	29.83	46.99	68.20	21.21	Peak
6	18000.000	48.90	8.24	34.30	26.42	49.26	74.00	24.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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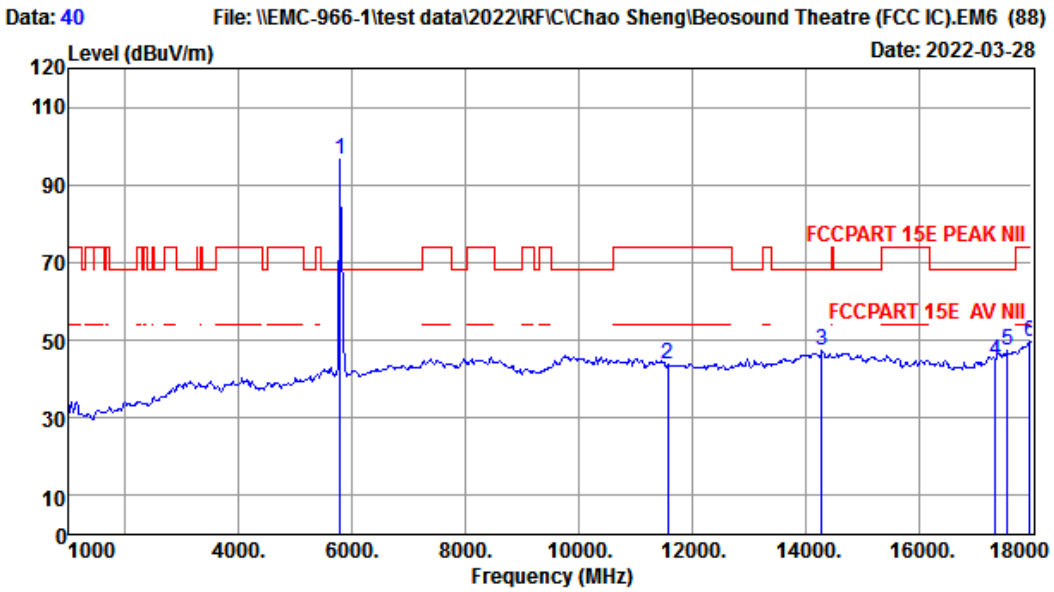

Site no. : 1# 966 Chamber Data no. : 40
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5785MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.000	32.84	4.05	34.39	94.11	96.61	68.20	-28.41	Peak
2	11570.000	39.90	6.12	34.67	32.56	43.91	74.00	30.09	Peak
3	14294.000	41.04	6.75	34.39	34.07	47.47	68.20	20.73	Peak
4	17355.000	43.75	7.77	34.36	27.60	44.76	68.20	23.44	Peak
5	17575.000	45.51	7.96	34.34	28.47	47.60	68.20	20.60	Peak
6	17966.000	48.63	8.22	34.30	27.26	49.81	74.00	24.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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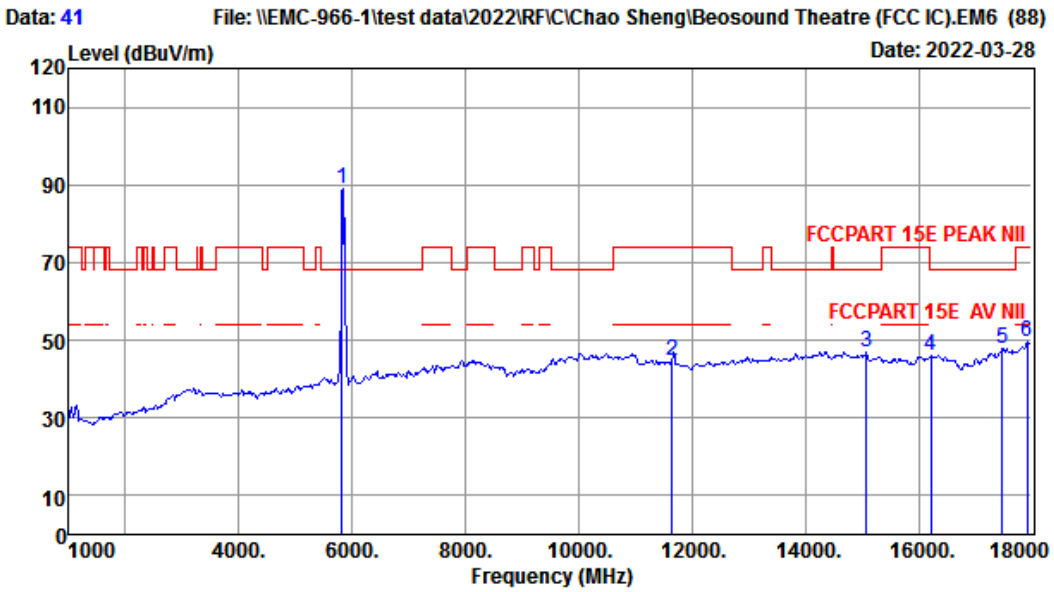

Site no. : 1# 966 Chamber Data no. : 41
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5825MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.000	32.83	4.11	34.37	86.58	89.15	68.20	-20.95	Peak
2	11650.000	39.90	6.08	34.69	33.50	44.79	74.00	29.21	Peak
3	15076.000	40.82	6.76	34.57	33.76	46.77	68.20	21.43	Peak
4	16215.000	40.04	7.00	34.24	33.27	46.07	68.20	22.13	Peak
5	17475.000	44.70	7.89	34.35	29.53	47.77	68.20	20.43	Peak
6	17915.000	48.22	8.18	34.31	27.46	49.55	74.00	24.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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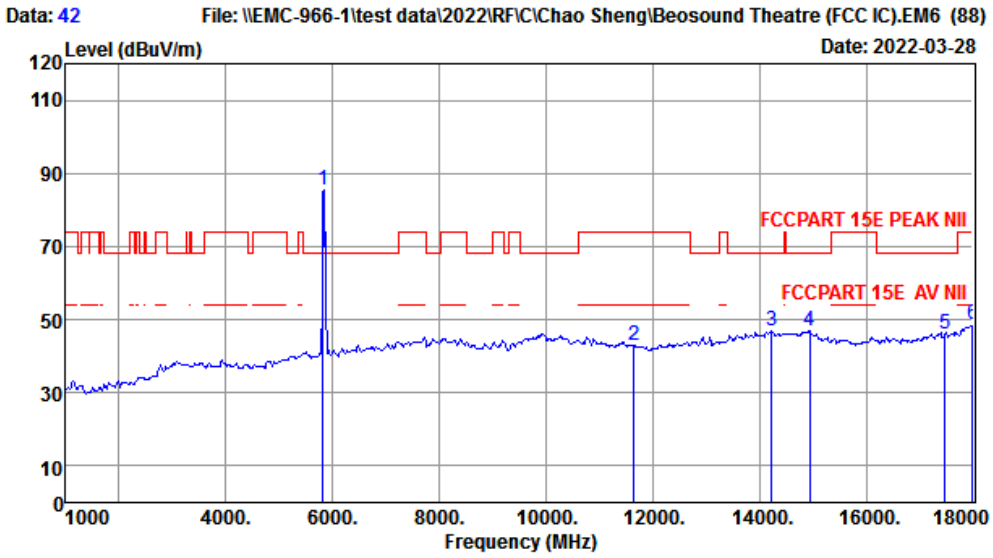

Site no. : 1# 966 Chamber Data no. : 42
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5825MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.000	32.83	4.11	34.37	82.92	85.49	68.20	-17.29	Peak
2	11650.000	39.90	6.08	34.69	31.55	42.84	74.00	31.16	Peak
3	14226.000	41.06	6.70	34.37	33.68	47.07	68.20	21.13	Peak
4	14940.000	40.91	6.82	34.58	33.82	46.97	68.20	21.23	Peak
5	17475.000	44.70	7.89	34.35	27.76	46.00	68.20	22.20	Peak
6	18000.000	48.90	8.24	34.30	25.80	48.64	74.00	25.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Radiated Band Edge

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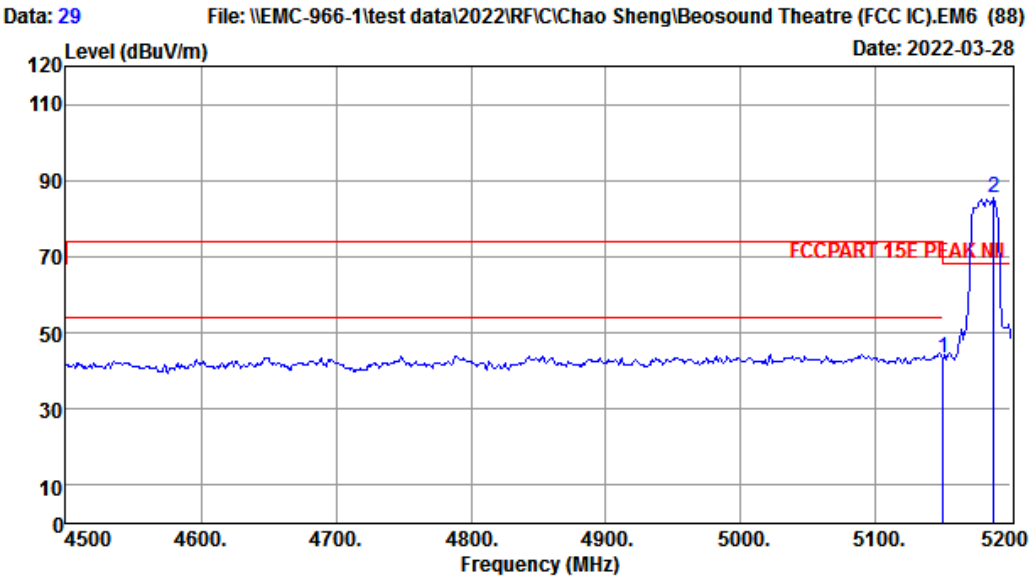

Site no. : 1# 966 Chamber Data no. : 29
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5180MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	32.13	3.50	34.64	42.44	43.43	68.20	24.77	Peak
2	5187.400	32.20	3.52	34.63	84.16	85.25	68.20	-17.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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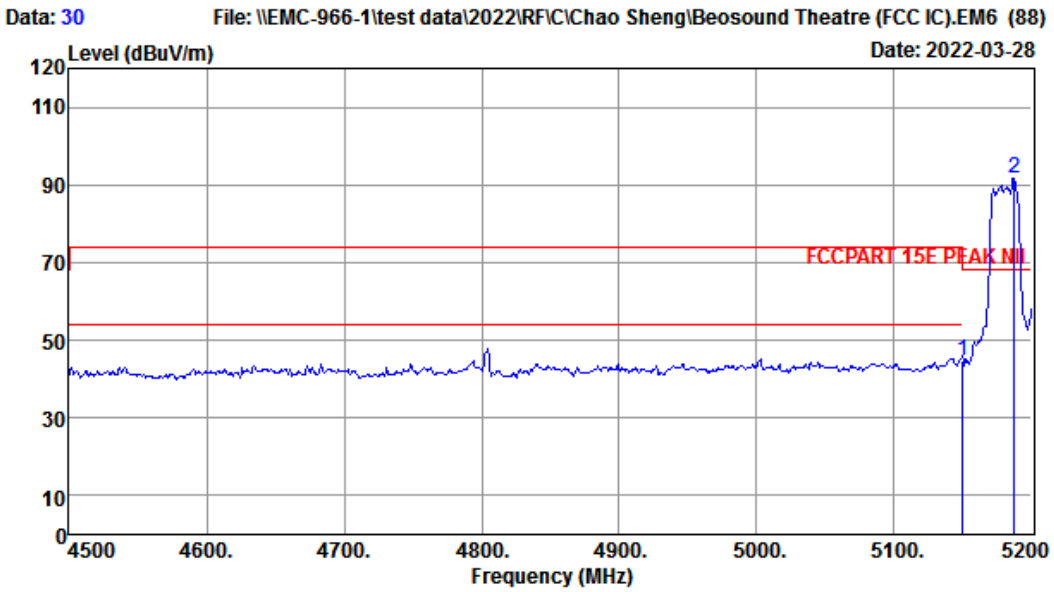

Site no. : 1# 966 Chamber Data no. : 30
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5180MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	32.13	3.50	34.64	43.67	44.66	68.20	23.54	Peak
2	5187.400	32.20	3.52	34.63	90.74	91.83	68.20	-23.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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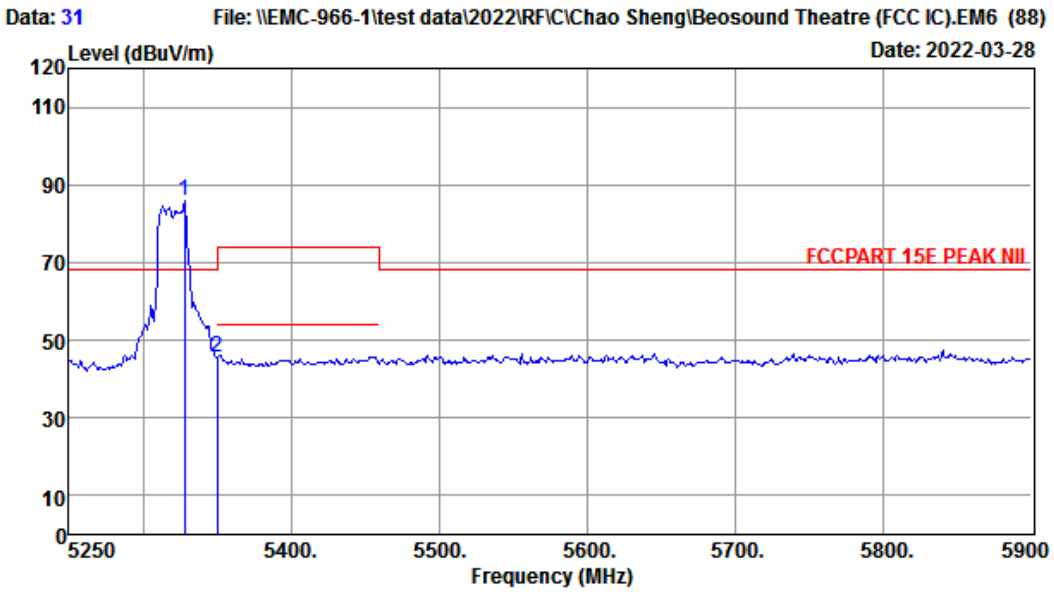

Site no. : 1# 966 Chamber Data no. : 31
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5320MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5328.000	32.53	3.61	34.56	84.22	85.80	68.20	-17.60	Peak
2	5350.000	32.57	3.62	34.56	44.07	45.70	68.20	22.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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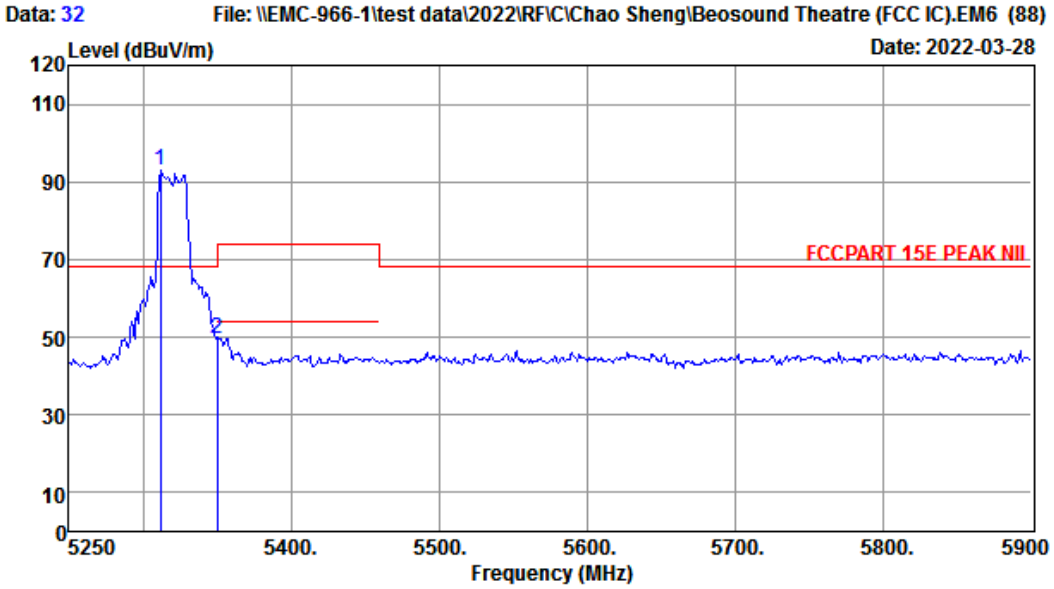


```
Site no.      : 1# 966 Chamber              Data no.  : 32
Dis. / Ant.   : 3m   ANT9120D 1-18G         Ant. pol. : HORIZONTAL
Limit         : FCCPART 15E PEAK NII
Env. / Ins.   : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer      : JBR
EUT           : Sound Bar
Power         : AC 120V/60Hz
M/N           : Beosound Theatre
Test Mode     : IEEE 802.11ax HE20 TX 5320MHz
                ANT1+ANT2
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5311.750	32.50	3.60	34.57	91.33	92.86	68.20	-24.66	Peak
2	5350.000	32.57	3.62	34.56	48.18	49.81	68.20	18.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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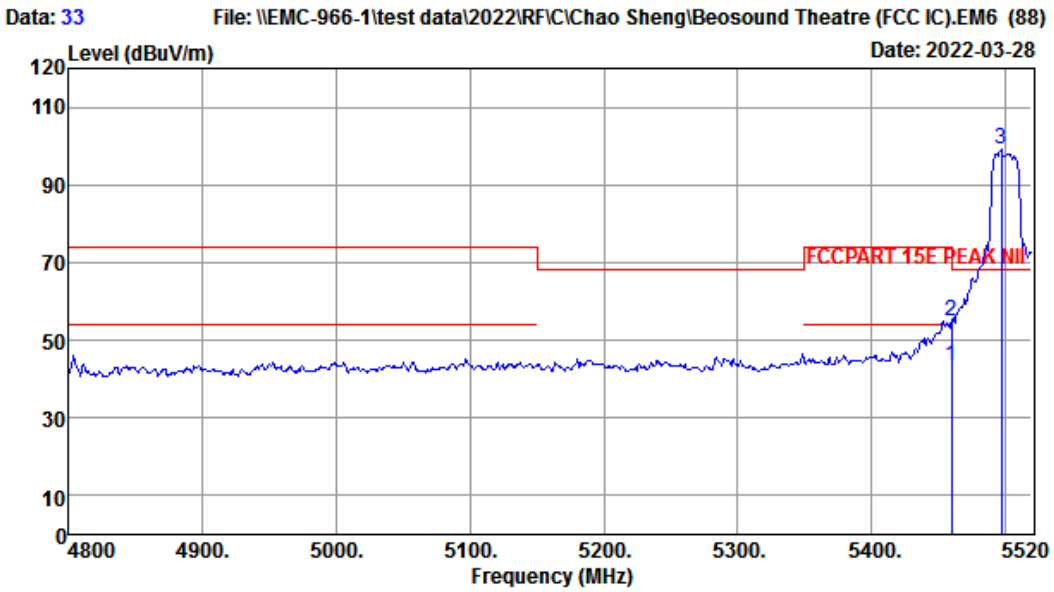

Site no. : 1# 966 Chamber Data no. : 33
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5500MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	32.79	3.68	34.52	41.23	43.18	54.00	10.82	Average
2	5460.000	32.79	3.68	34.52	52.84	54.79	68.20	13.41	Peak
3	5496.960	32.90	3.71	34.50	97.05	99.16	68.20	-30.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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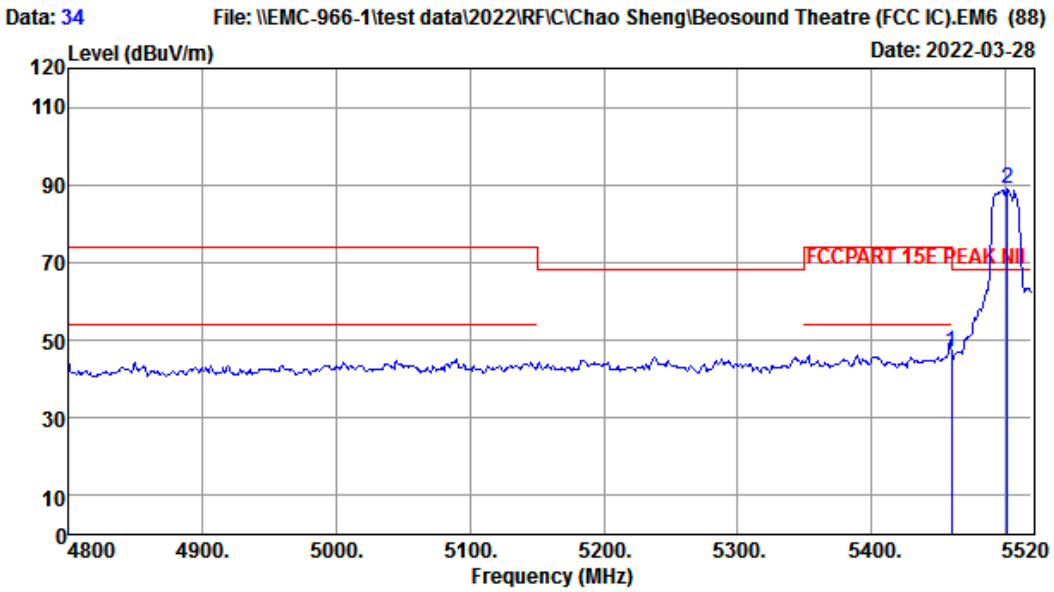

Site no. : 1# 966 Chamber Data no. : 34
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5500MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	32.79	3.68	34.52	44.79	46.74	68.20	21.46	Peak
2	5502.000	32.90	3.71	34.50	86.94	89.05	68.20	-20.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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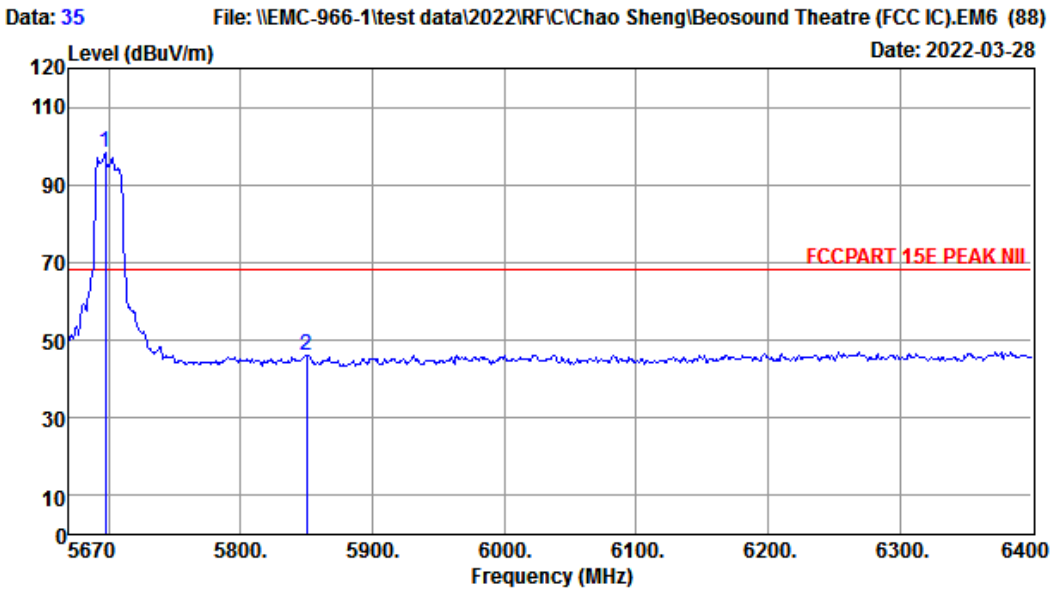

Site no. : 1# 966 Chamber Data no. : 35
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer : JBR
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : IEEE 802.11ax HE20 TX 5700MHz
ANT1+ANT2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5697.740	32.86	3.94	34.42	95.96	98.34	68.20	-30.14	Peak
2	5850.000	32.83	4.13	34.36	43.61	46.21	68.20	21.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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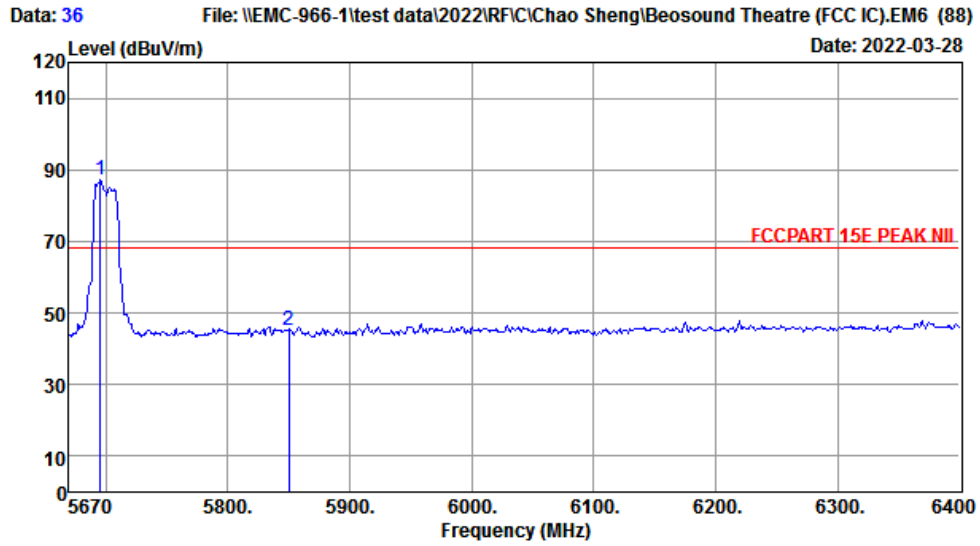



```
Site no.      : 1# 966 Chamber              Data no.  : 36
Dis. / Ant.   : 3m   ANT9120D 1-18G         Ant. pol. : VERTICAL
Limit         : FCCPART 15E PEAK NII
Env. / Ins.   : Temp:21.8';Humi:51%;Press:101.52kPa
Engineer      : JBR
EUT           : Sound Bar
Power         : AC 120V/60Hz
M/N           : Beosound Theatre
Test Mode     : IEEE 802.11ax HE20 TX 5700MHz
                ANT1+ANT2
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5695.550	32.86	3.94	34.42	85.06	87.44	68.20	-19.24	Peak
2	5850.000	32.83	4.13	34.36	42.78	45.38	68.20	22.82	Peak

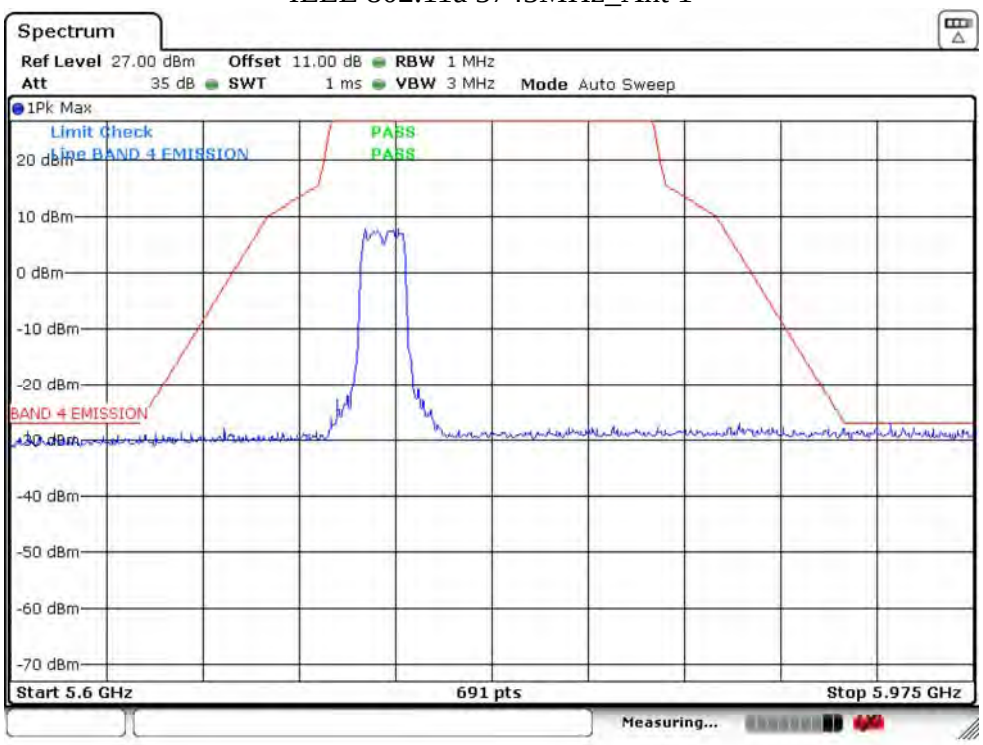
```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

Note:

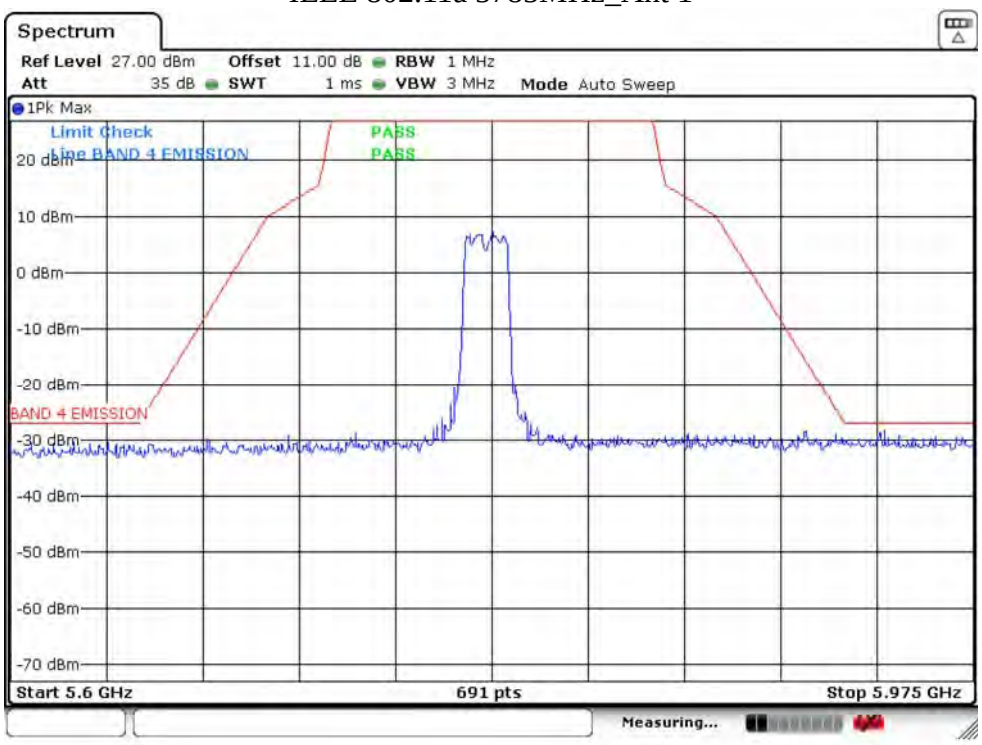
1. The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported

Band Edge

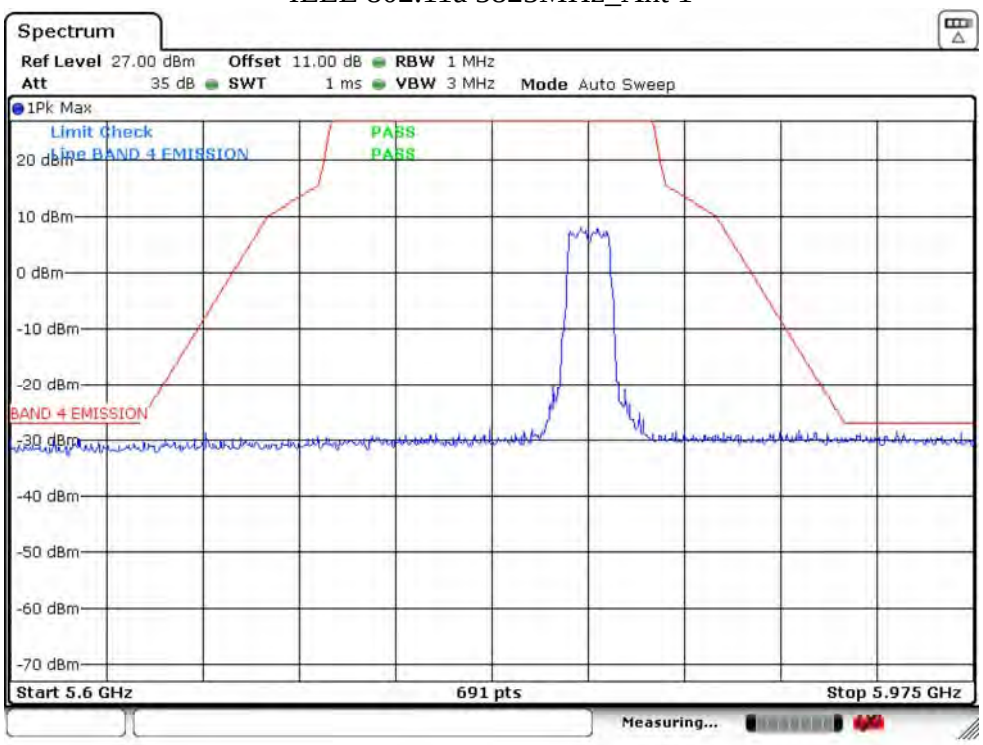
IEEE 802.11a 5745MHz_Ant 1



IEEE 802.11a 5785MHz_Ant 1



IEEE 802.11a 5825MHz_Ant 1



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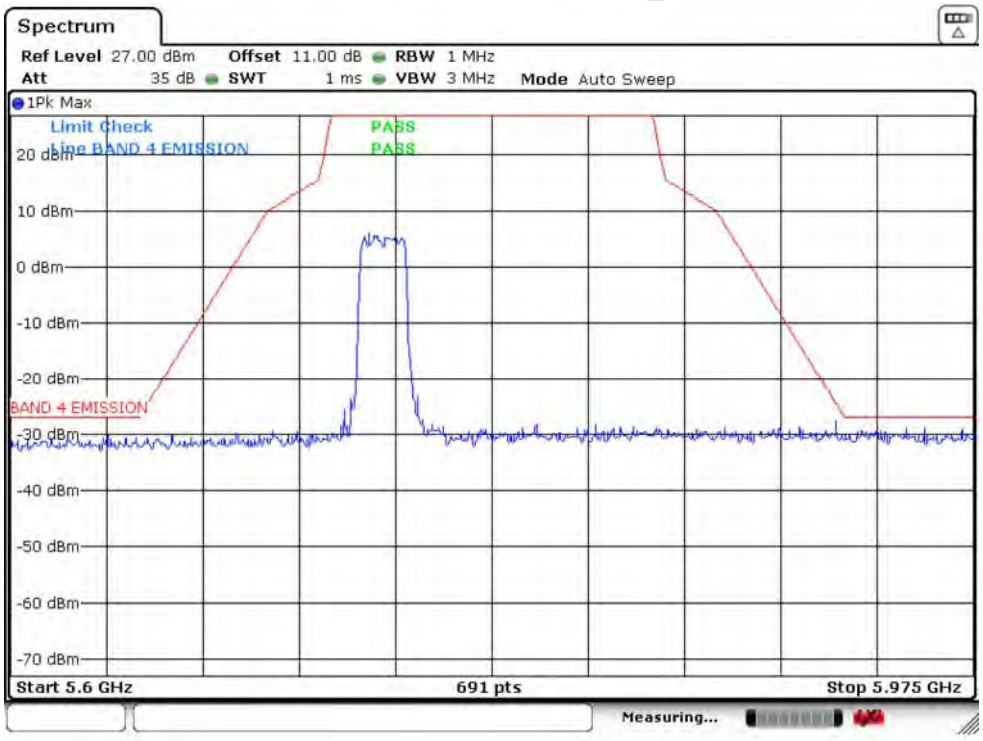

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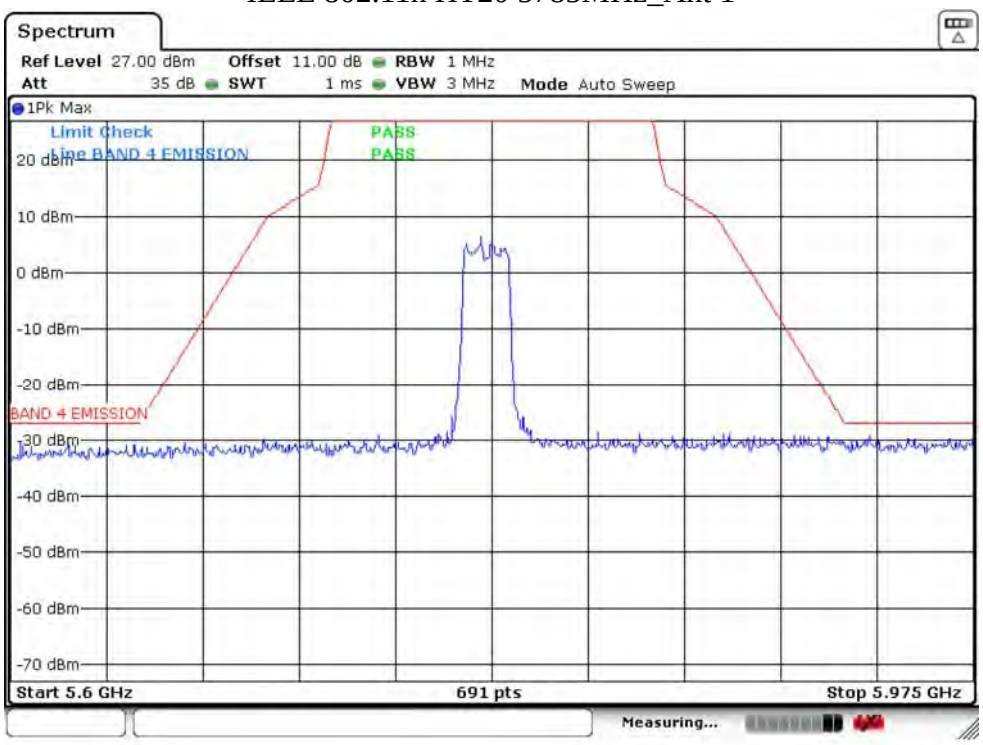

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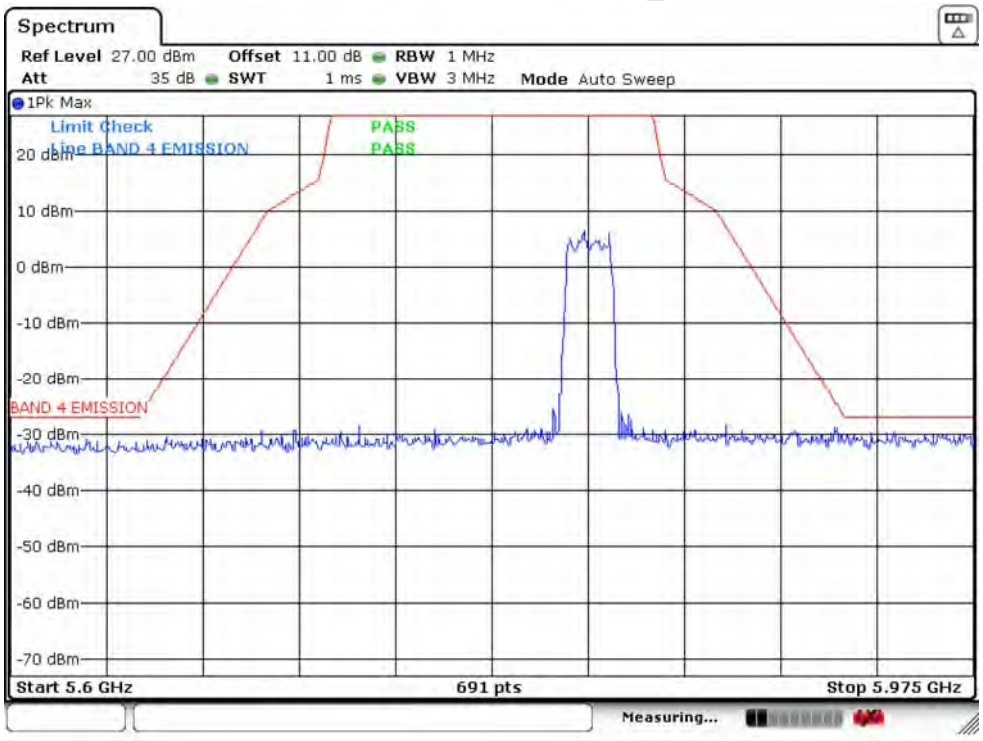

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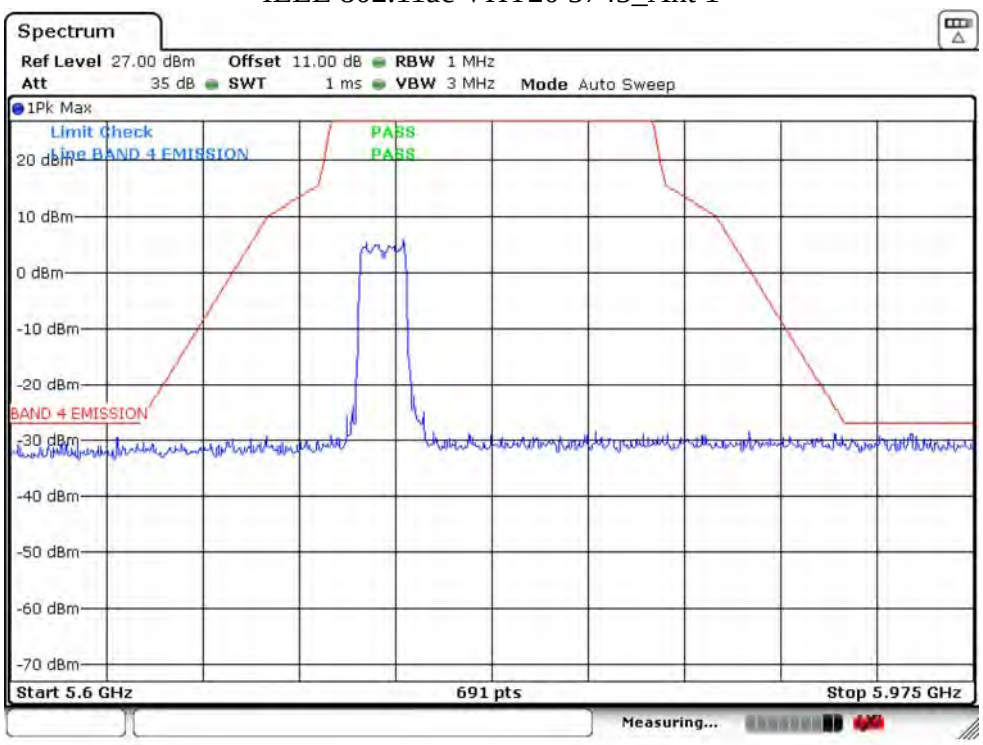

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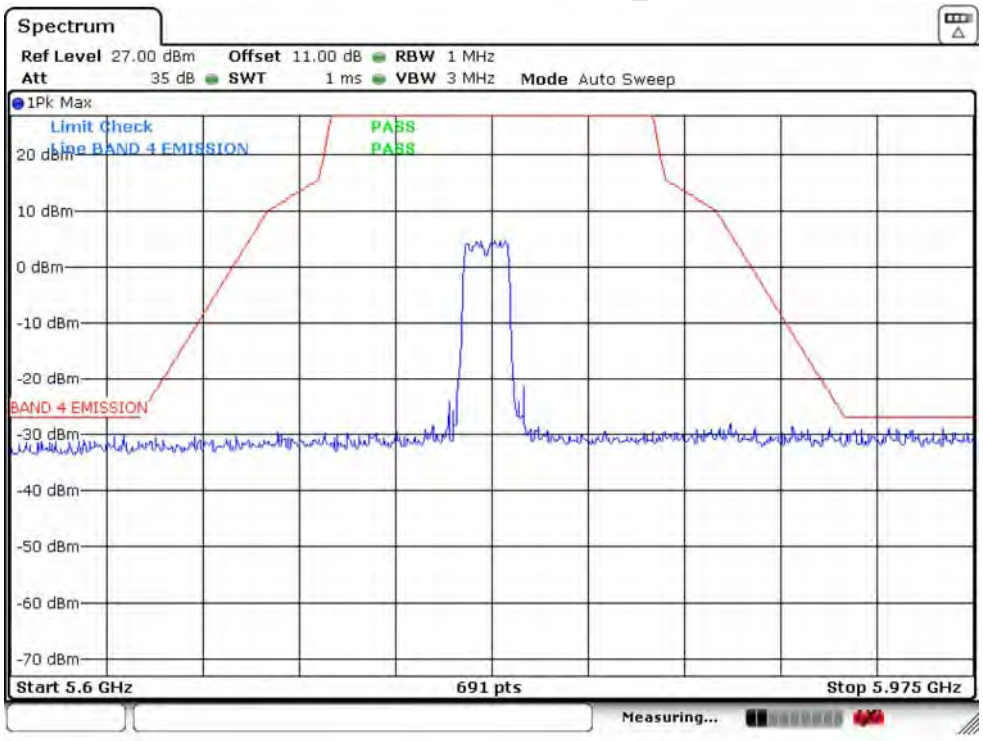
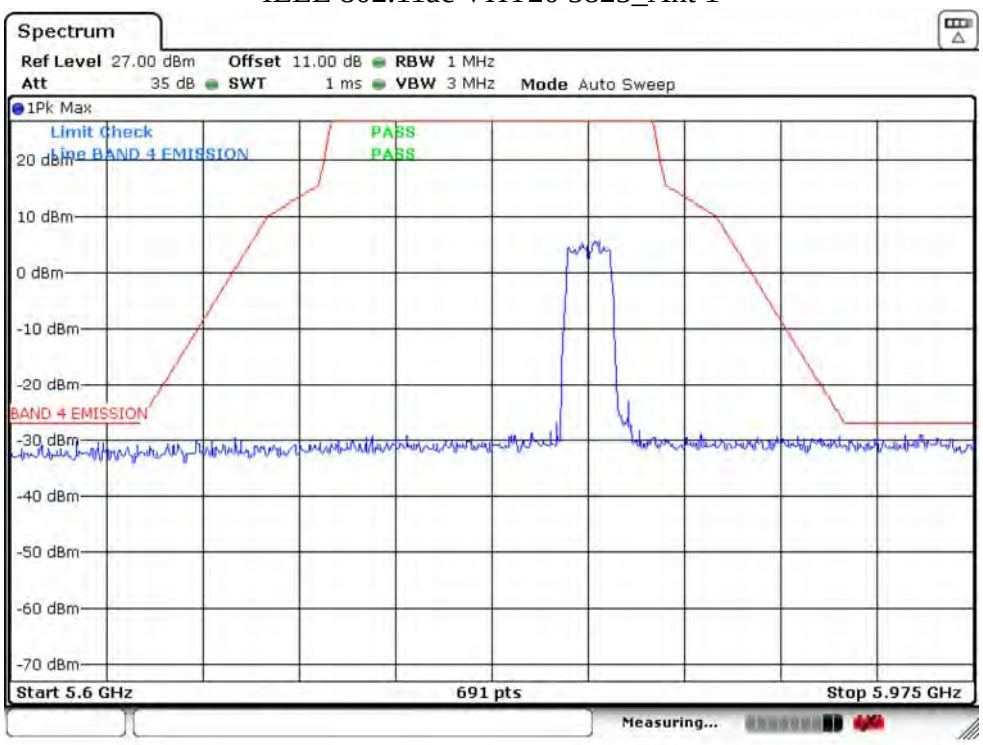
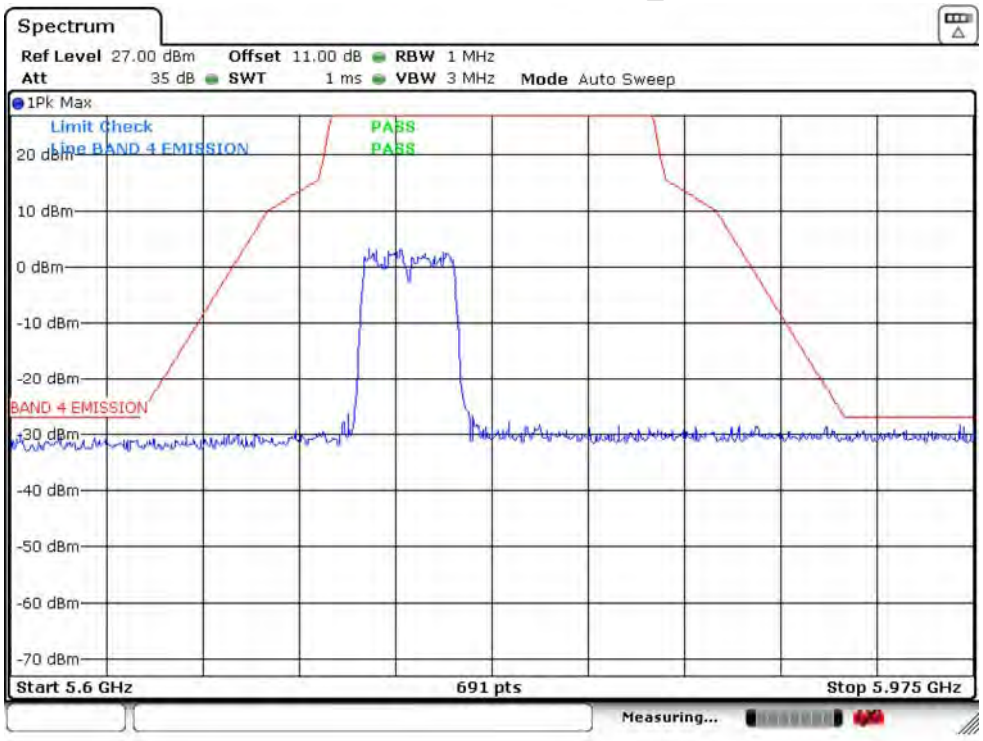


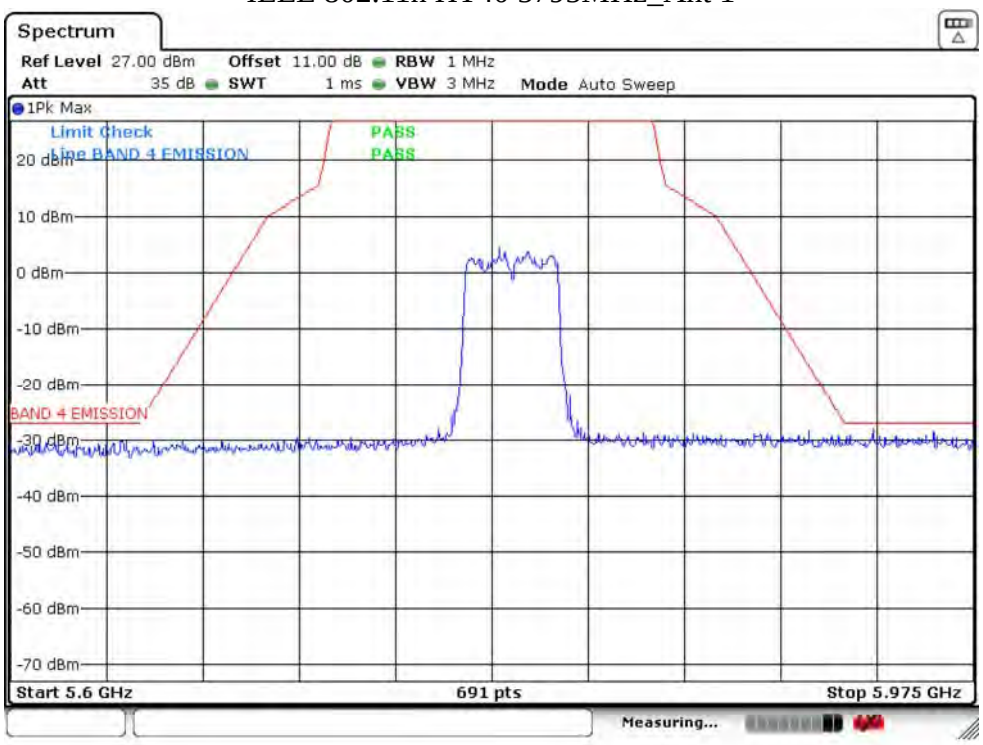
IEEE 802.11ac VHT20 5825_Ant 1



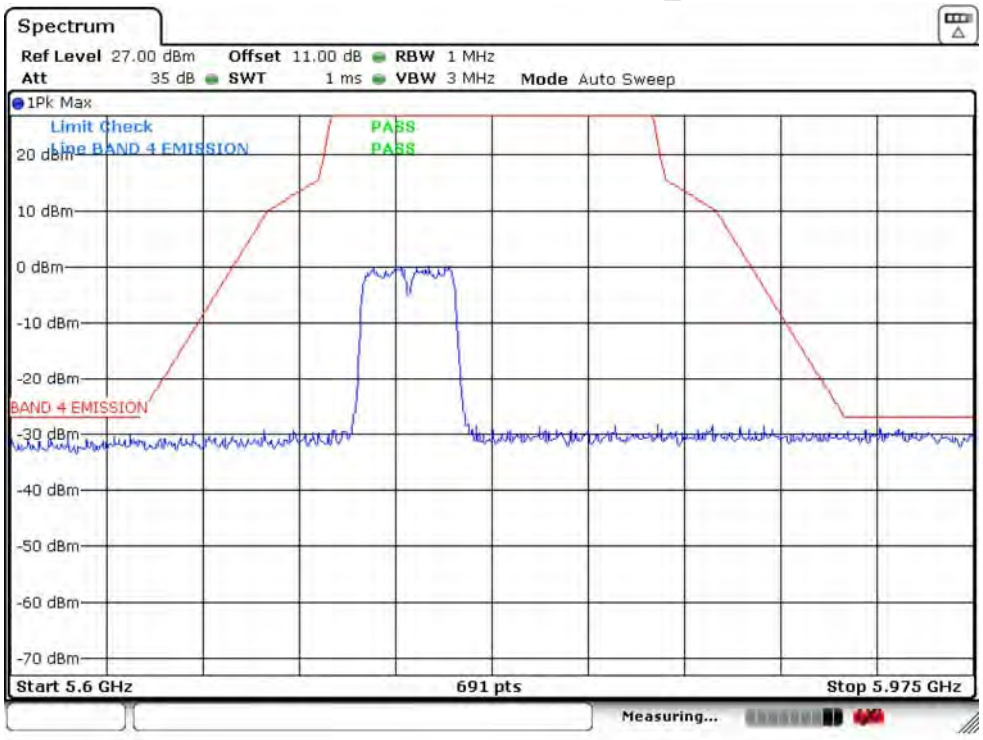
IEEE 802.11n HT40 5755MHz_Ant 1



IEEE 802.11n HT40 5795MHz_Ant 1



IEEE 802.11ac VHT40 5755MHz_Ant 1



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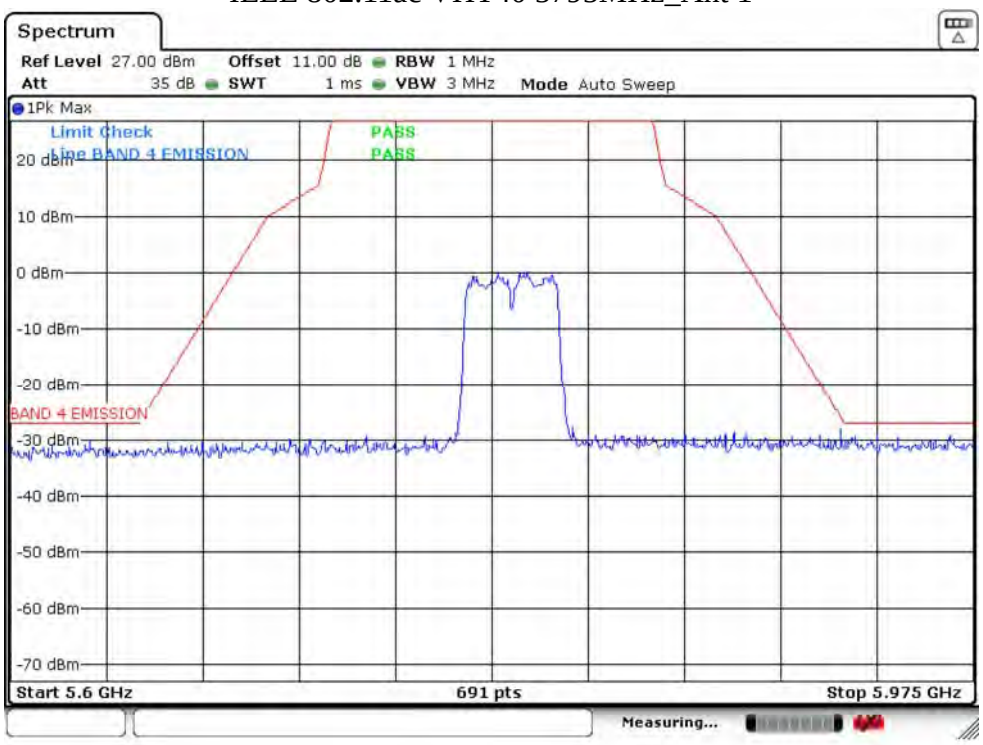
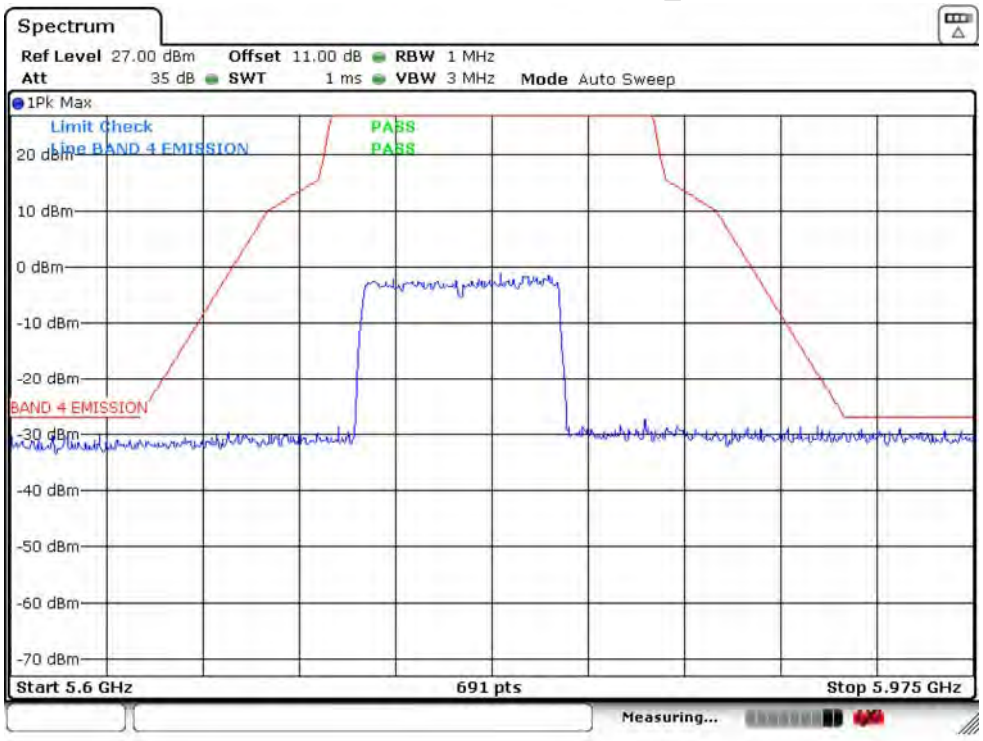
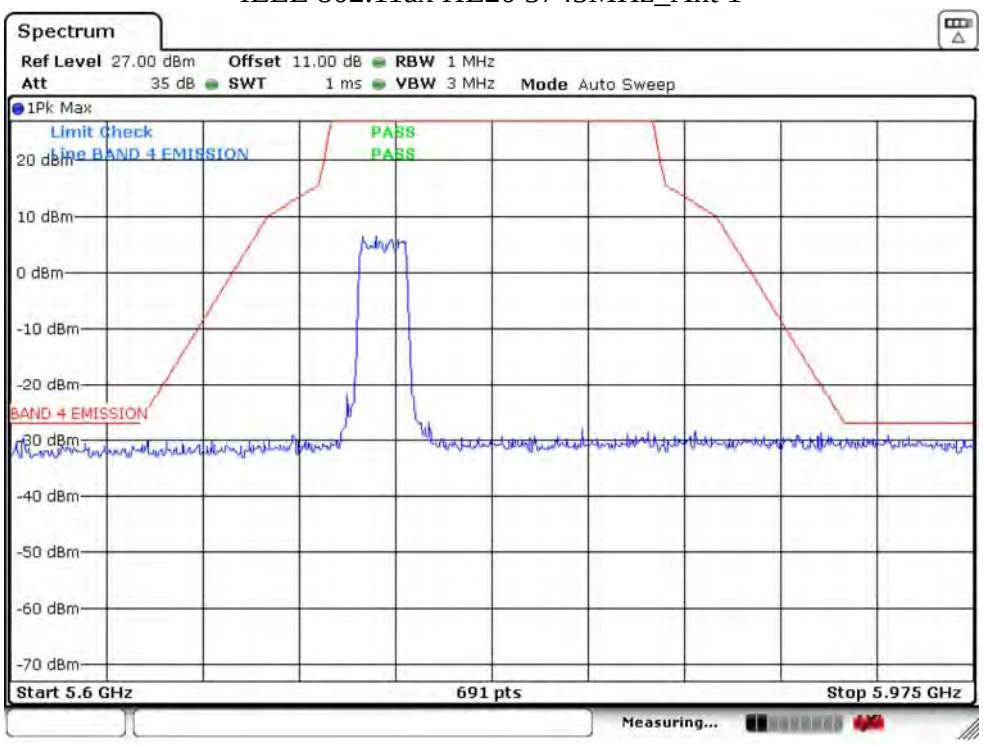


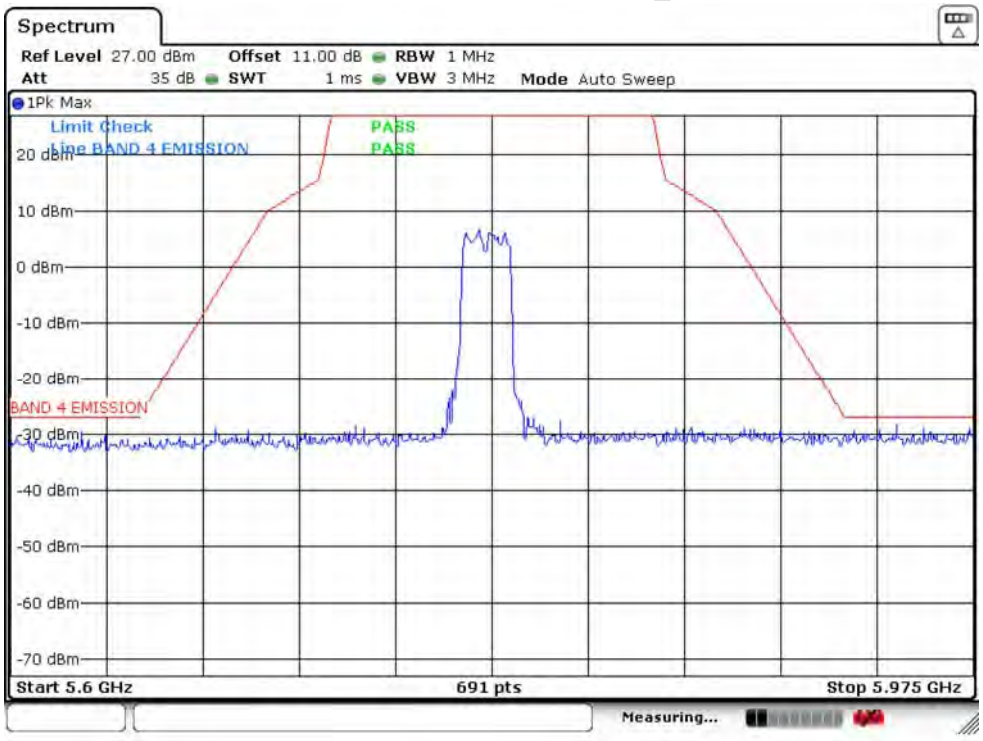
IEEE 802.11ac VHT80 5775MHz_Ant 1



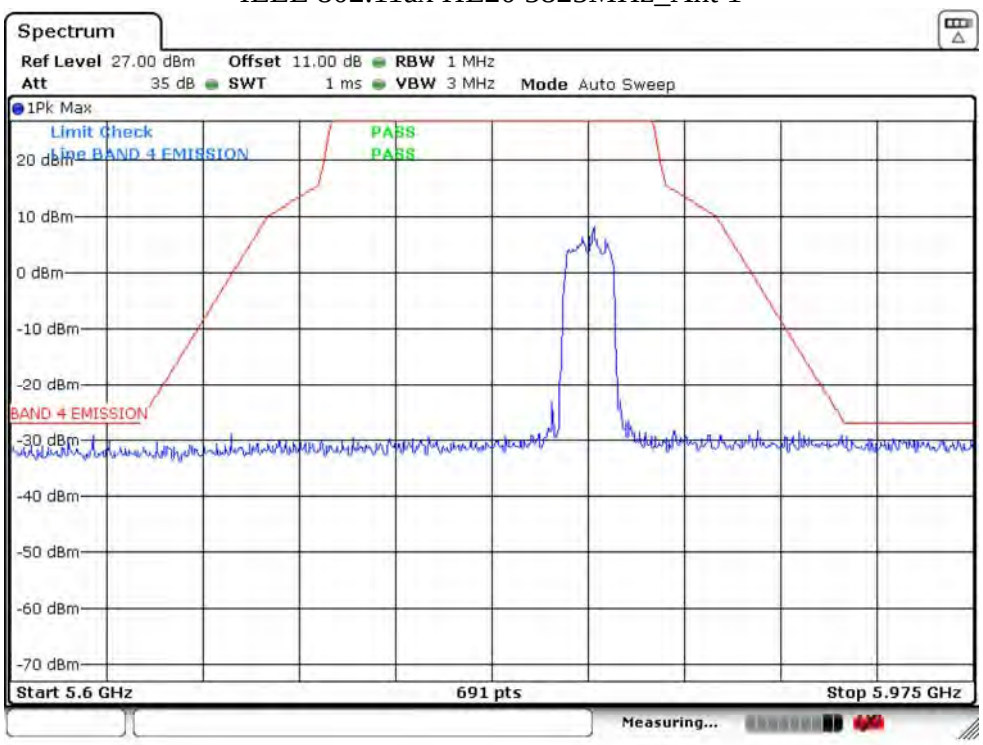
IEEE 802.11ax HE20 5745MHz_Ant 1



IEEE 802.11ax HE20 5785MHz_Ant 1



IEEE 802.11ax HE20 5825MHz_Ant 1



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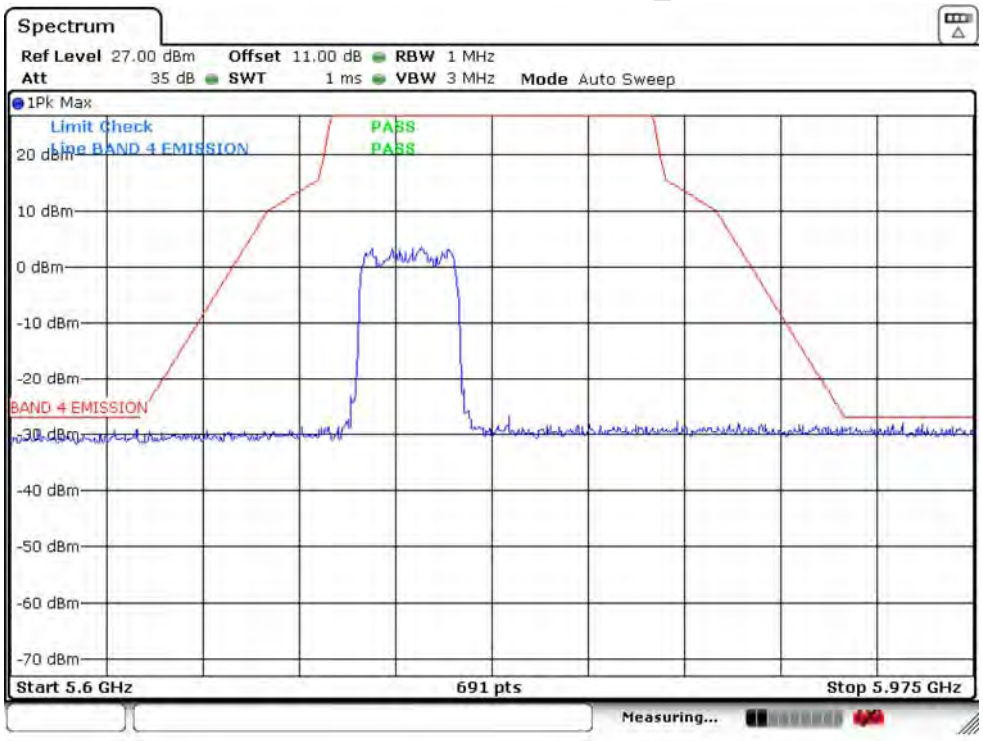

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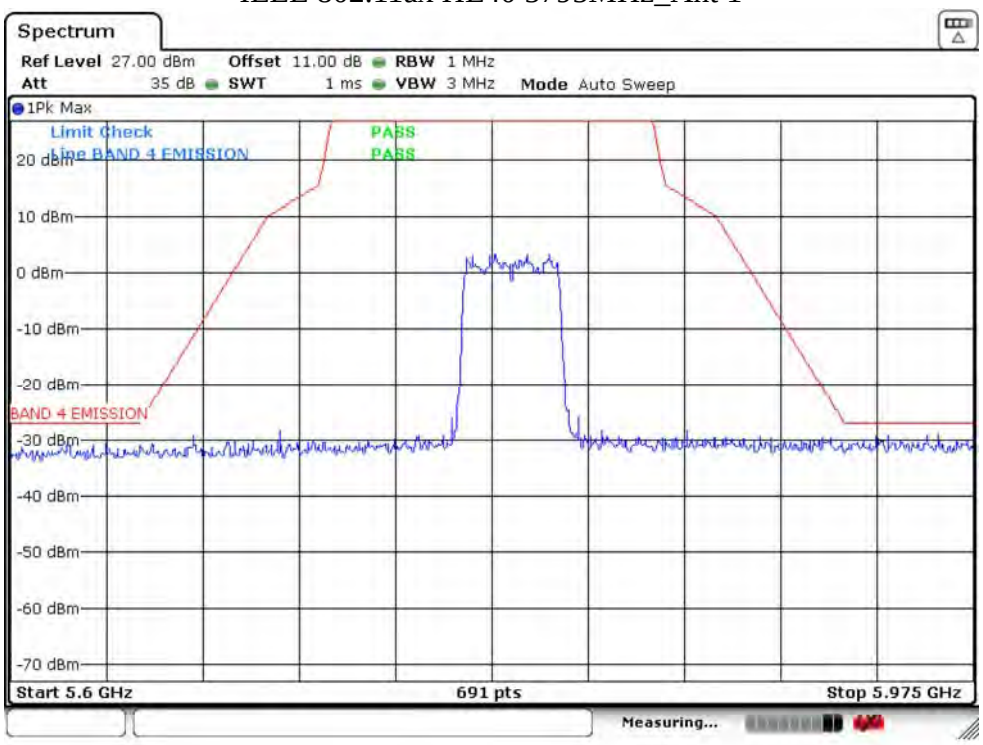

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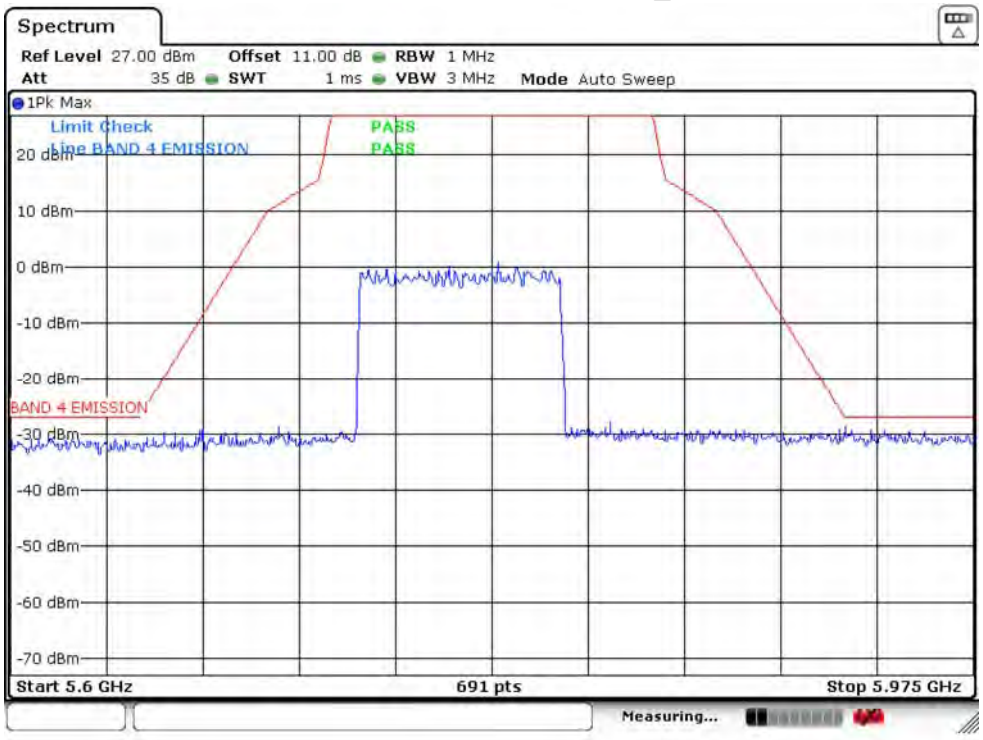

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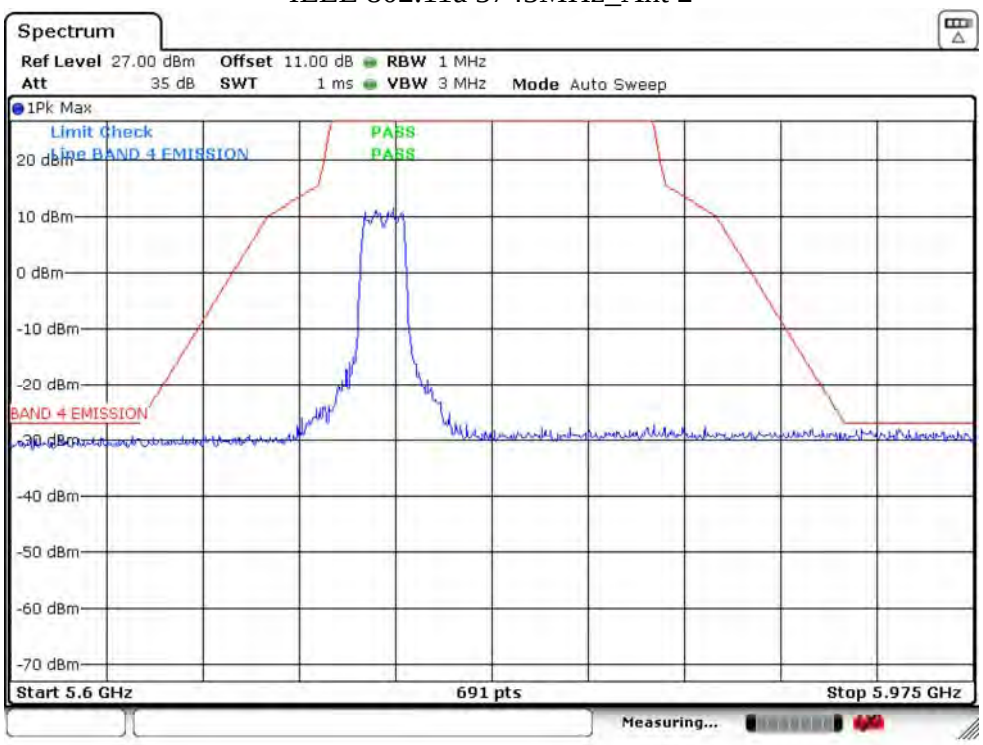
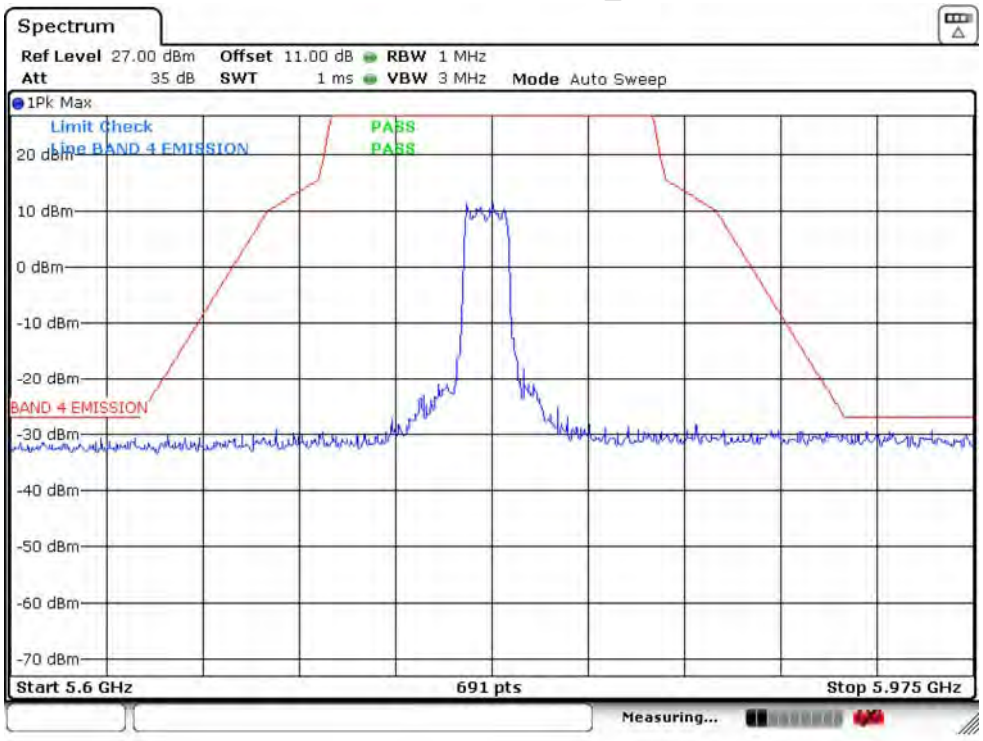
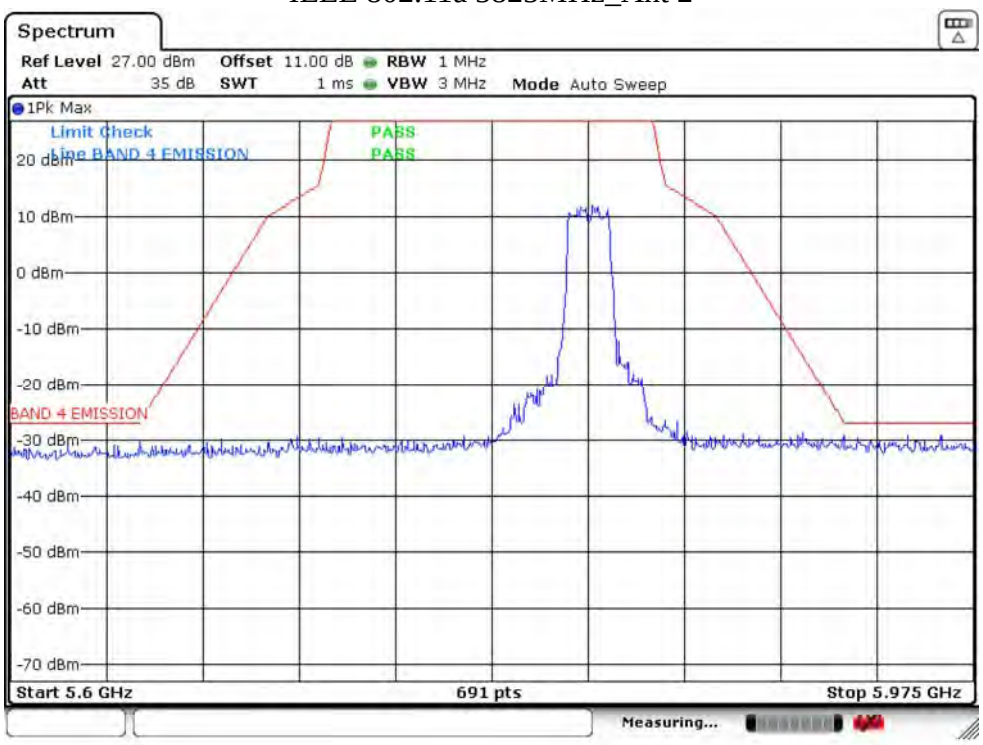


IEEE 802.11a 5785MHz_Ant 2



IEEE 802.11a 5825MHz_Ant 2



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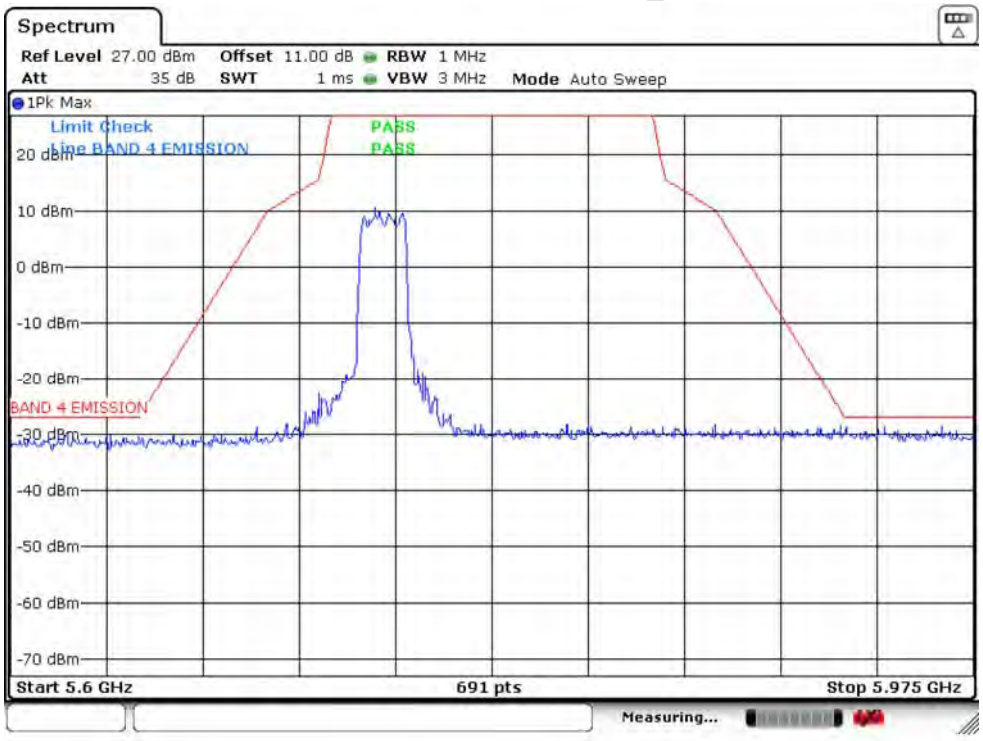

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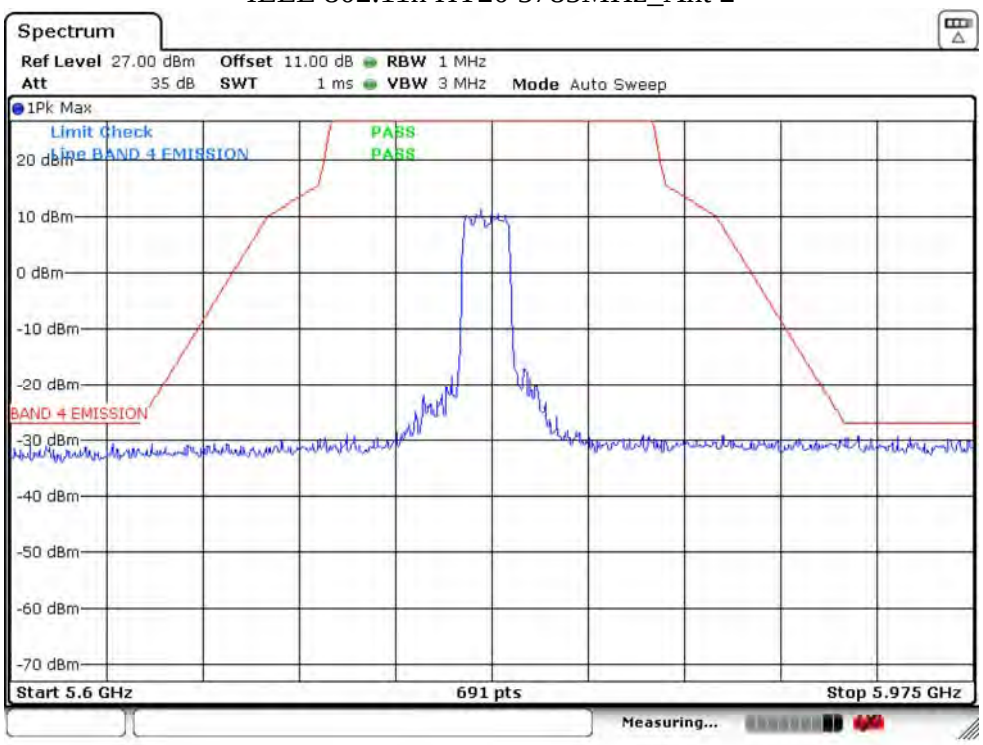

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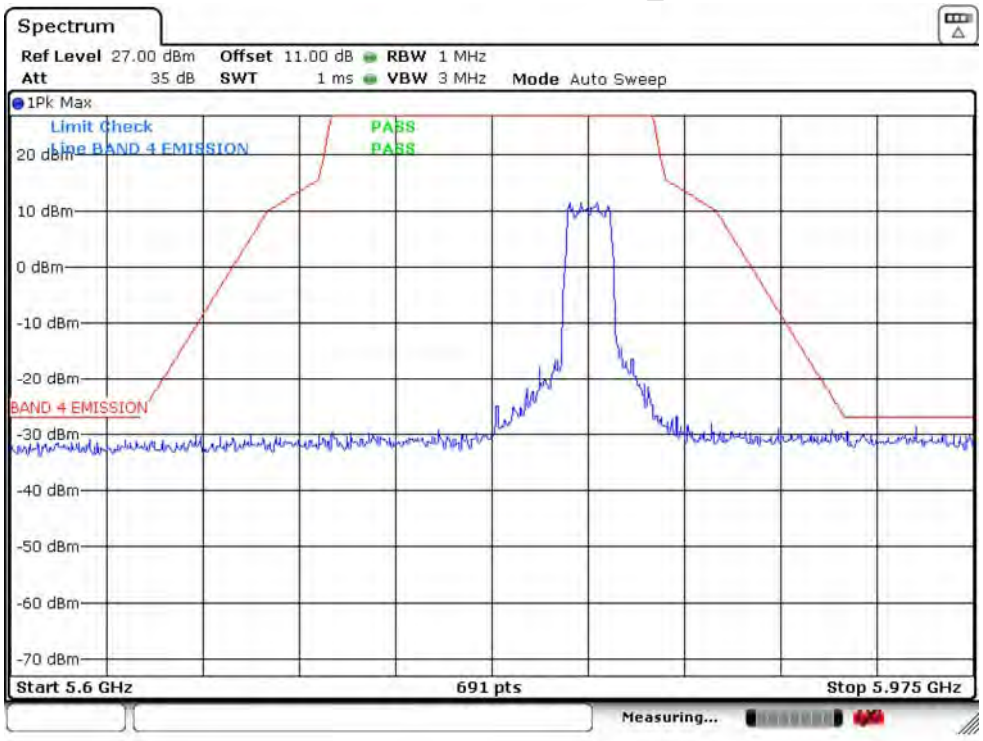

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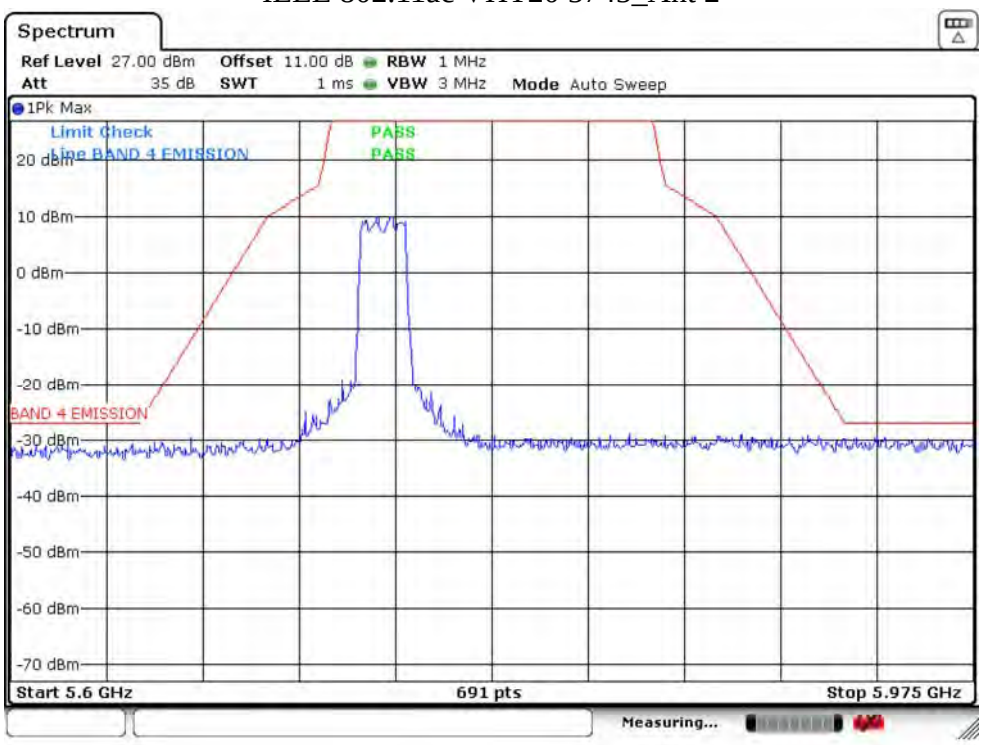

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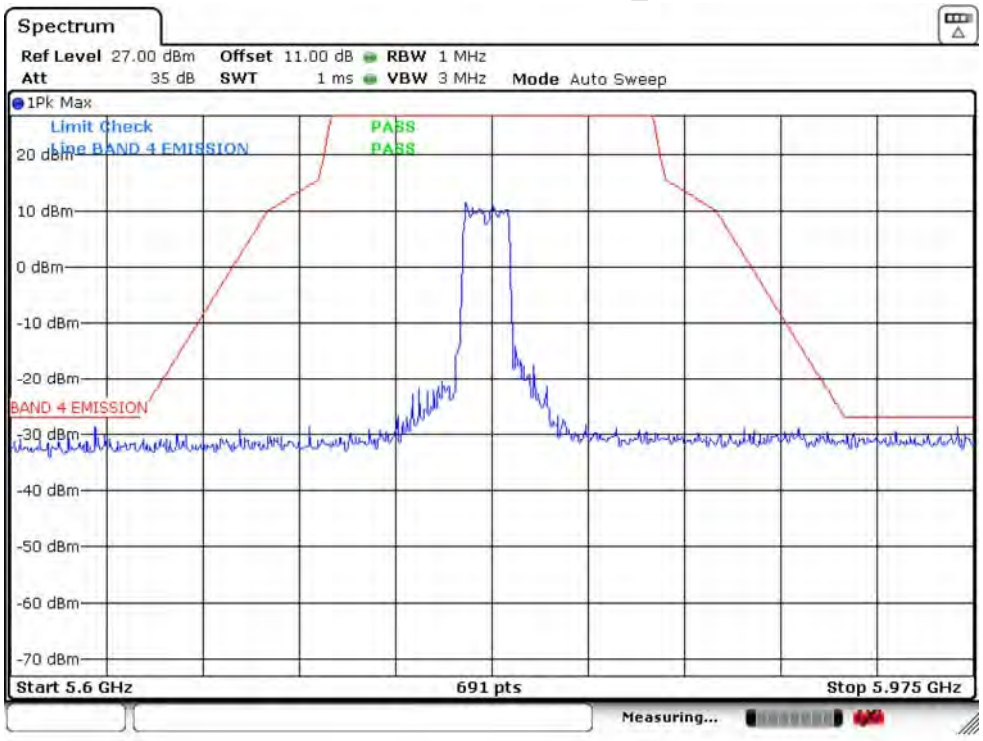
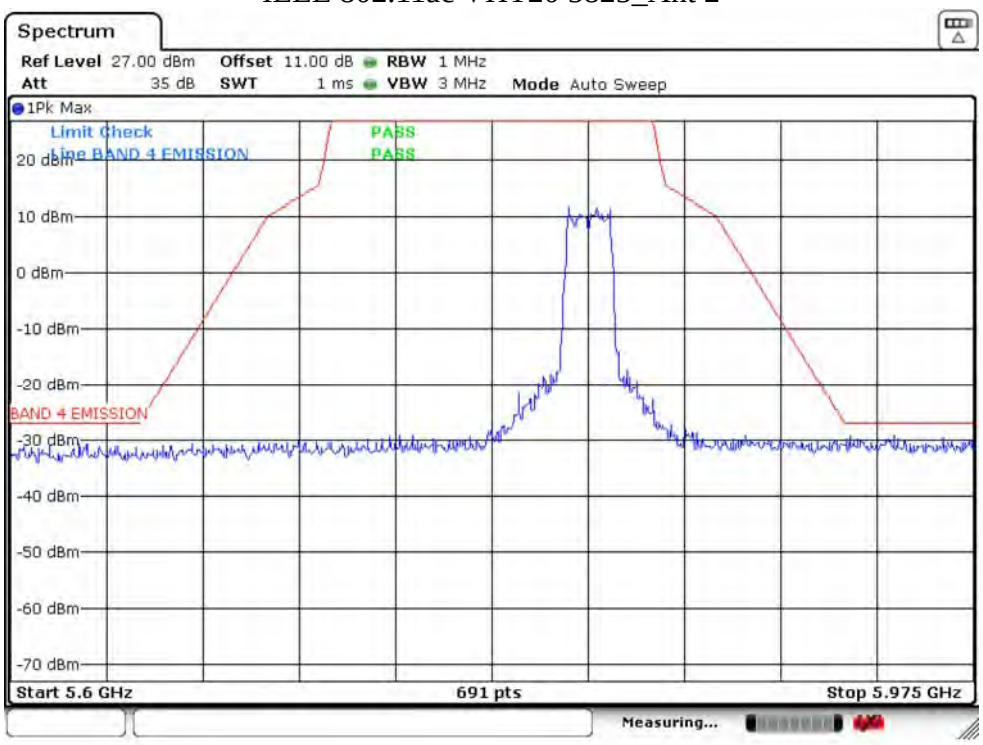


IEEE 802.11ac VHT20 5825_Ant 2



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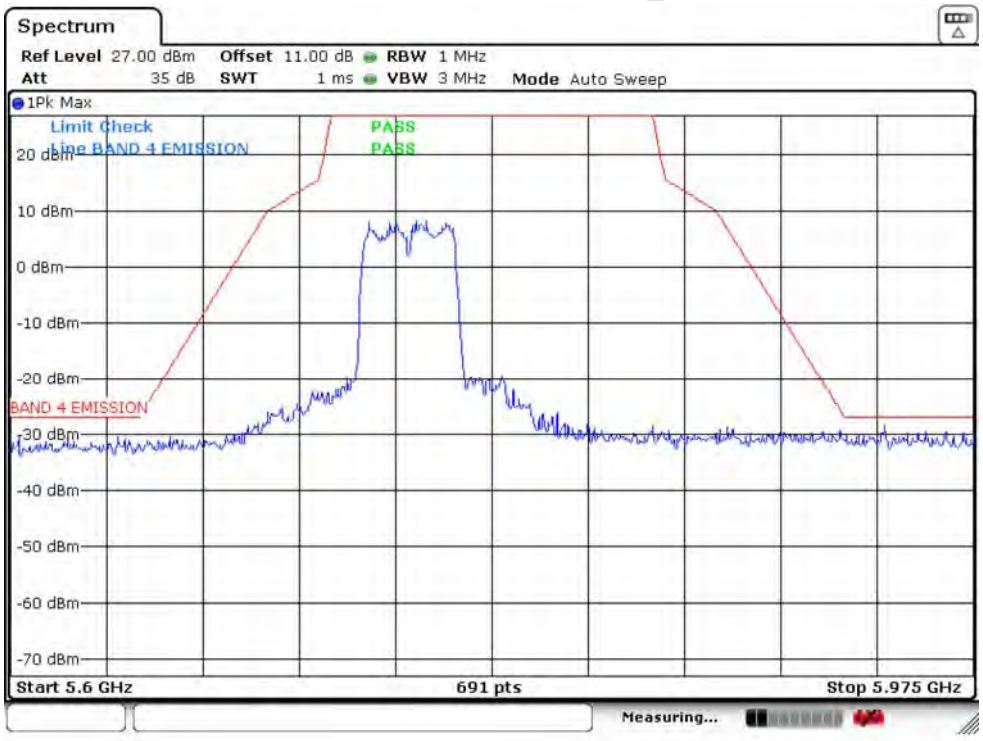

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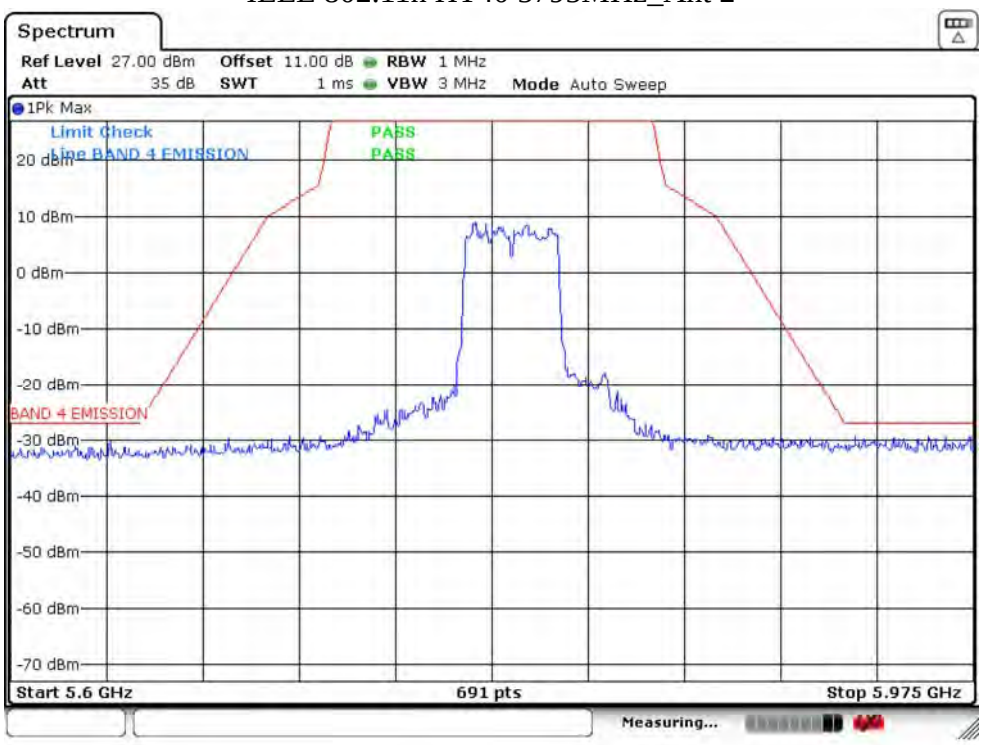
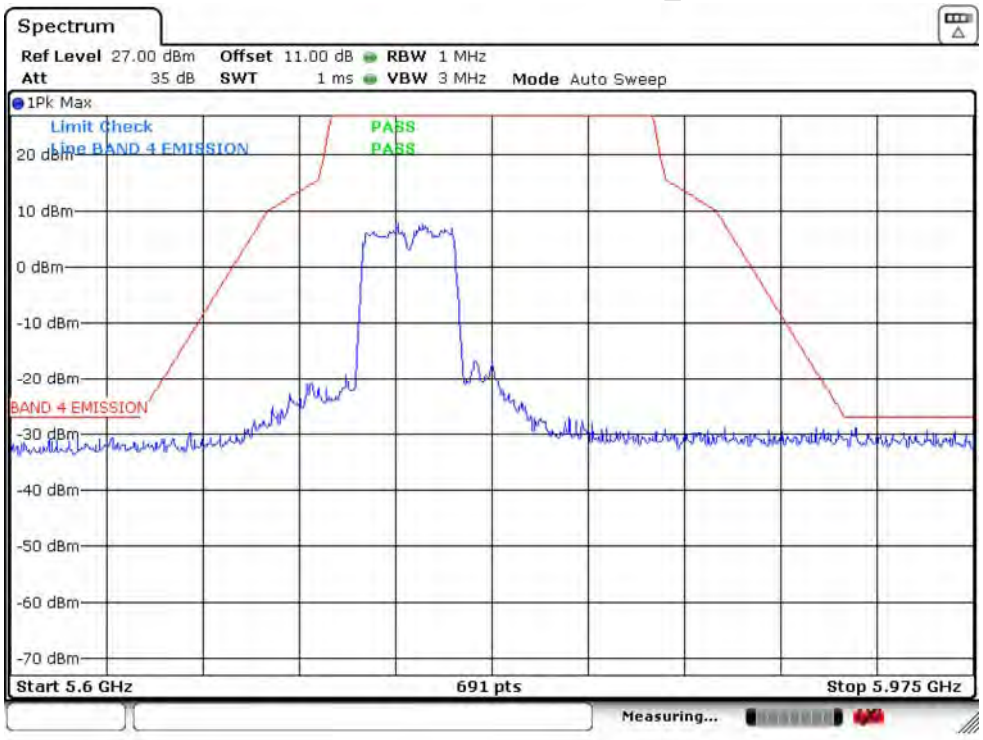


IEEE 802.11ac VHT40 5755MHz_Ant 2



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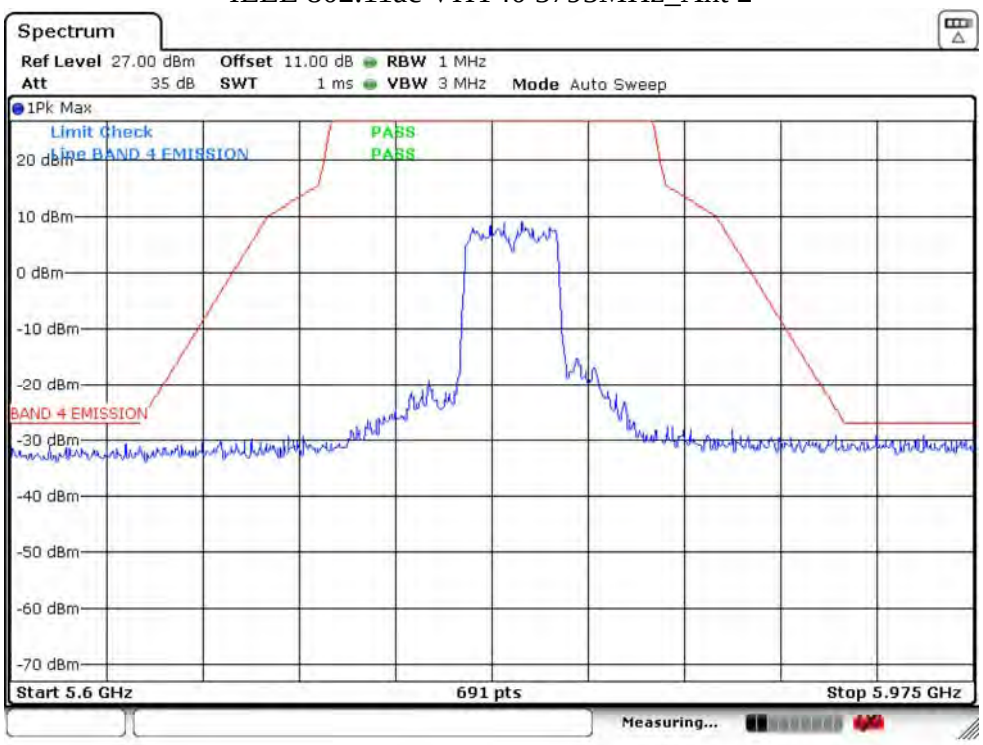

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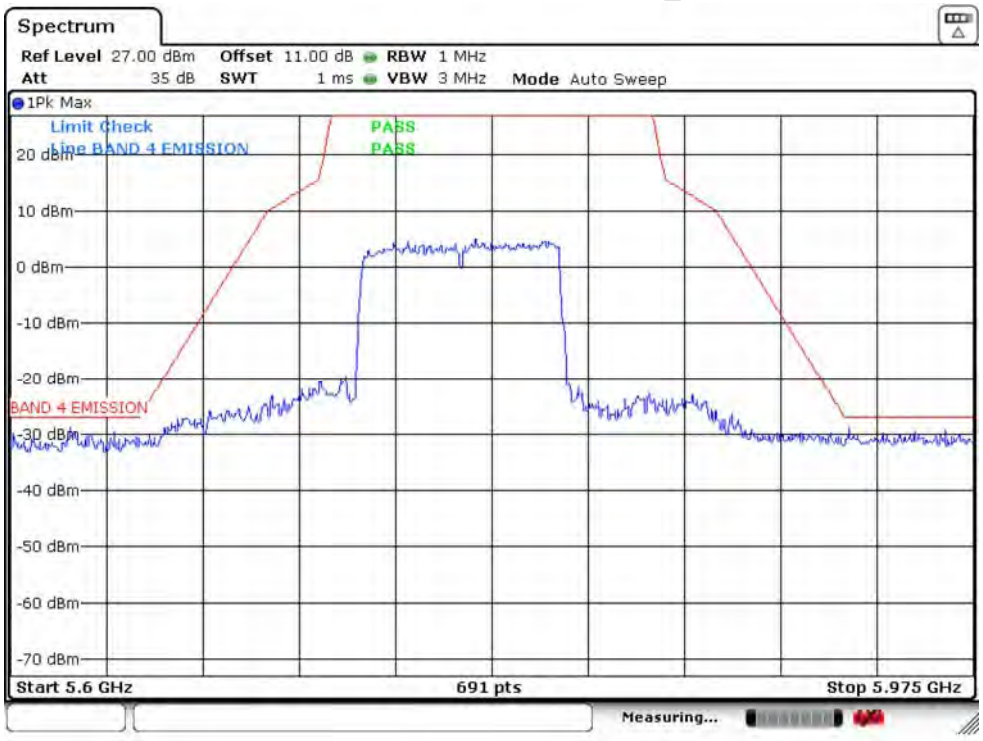
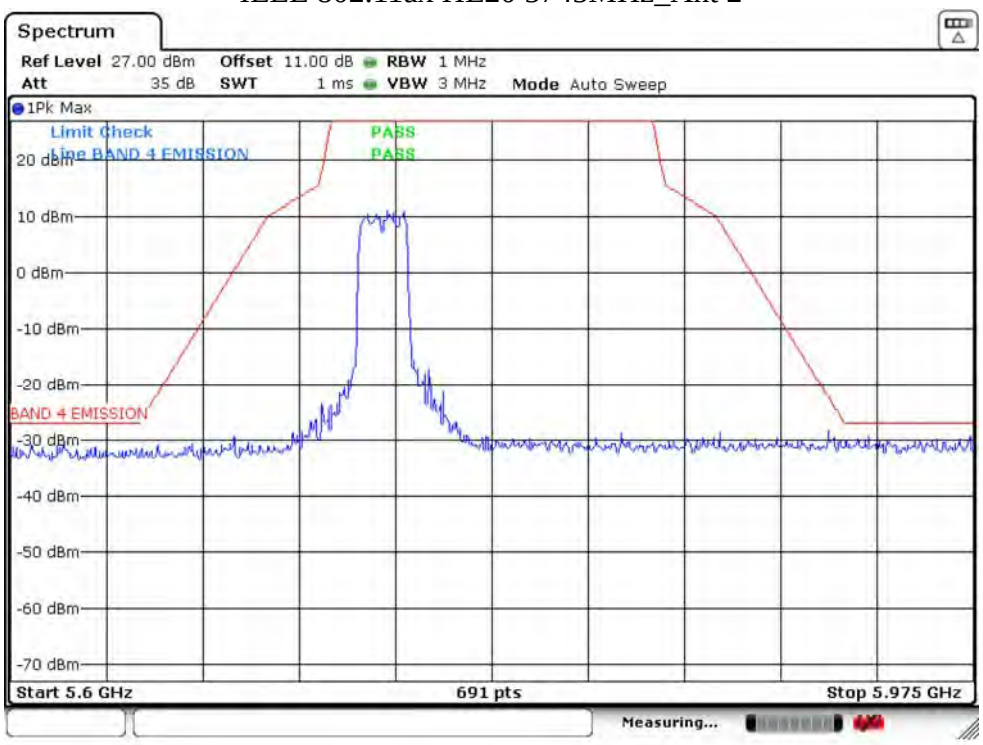
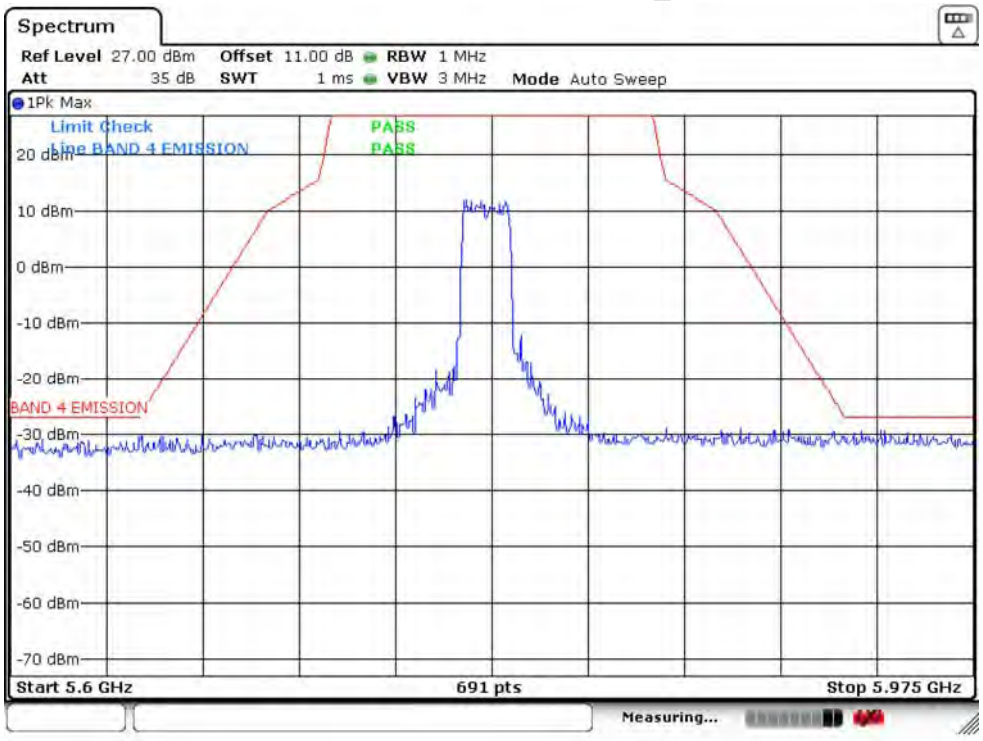


IEEE 802.11ax HE20 5745MHz_Ant 2



IEEE 802.11ax HE20 5785MHz_Ant 2



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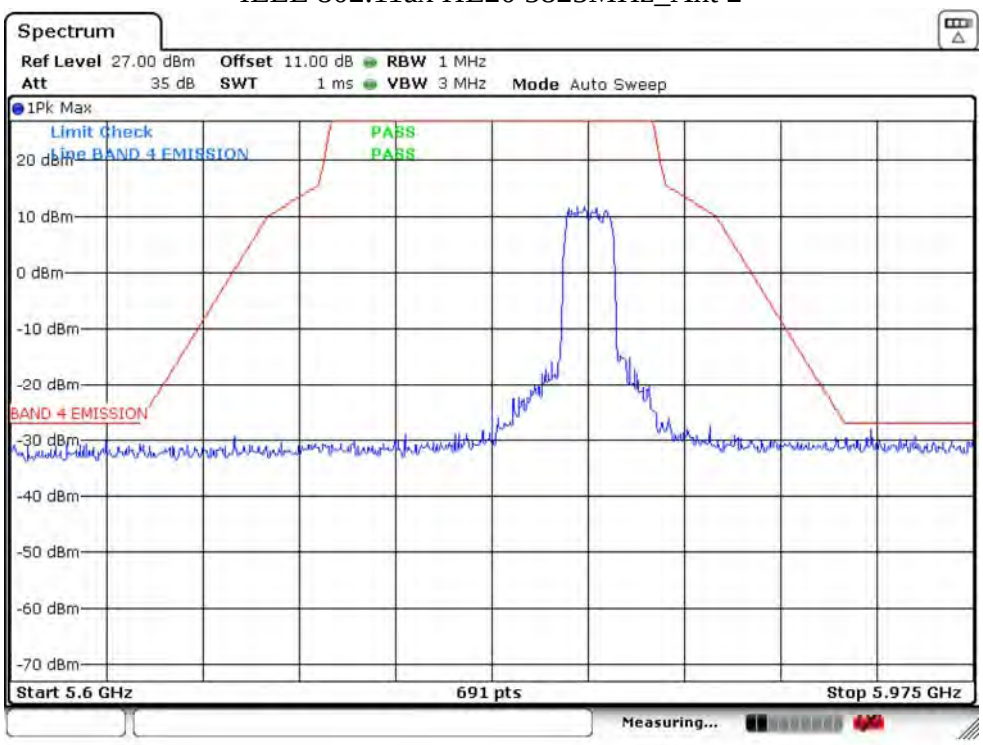

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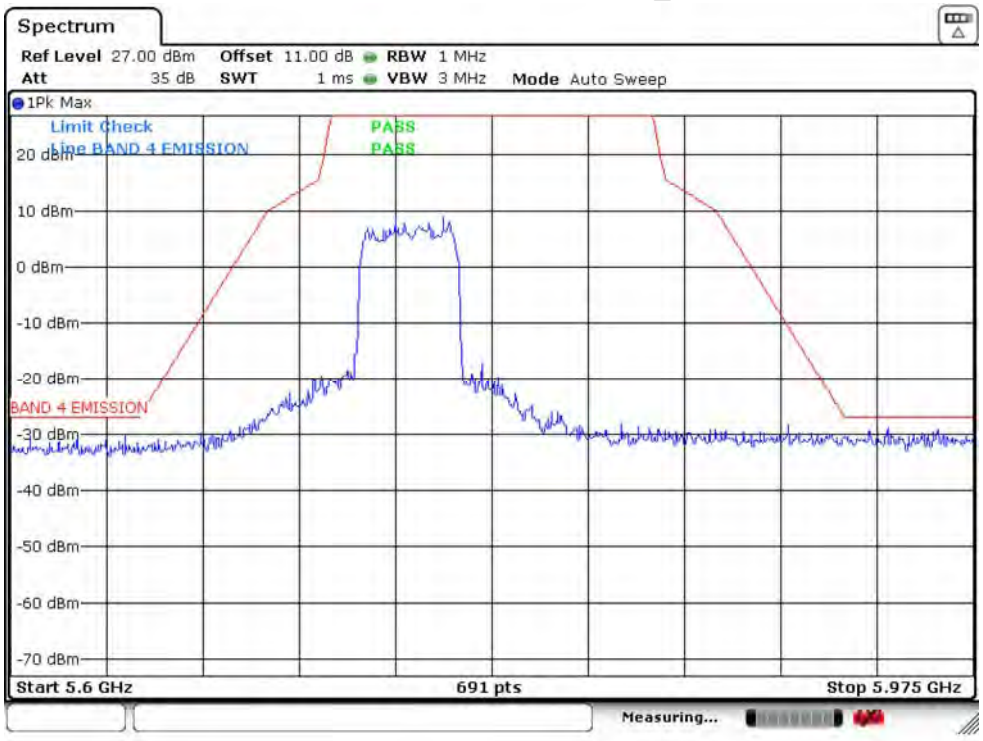

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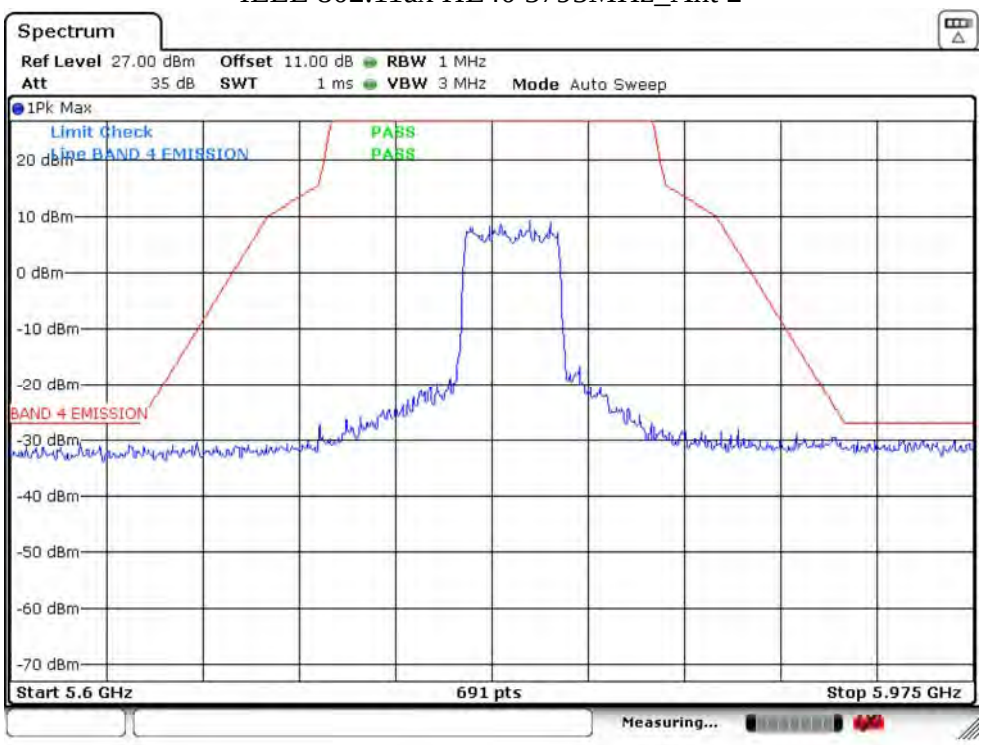
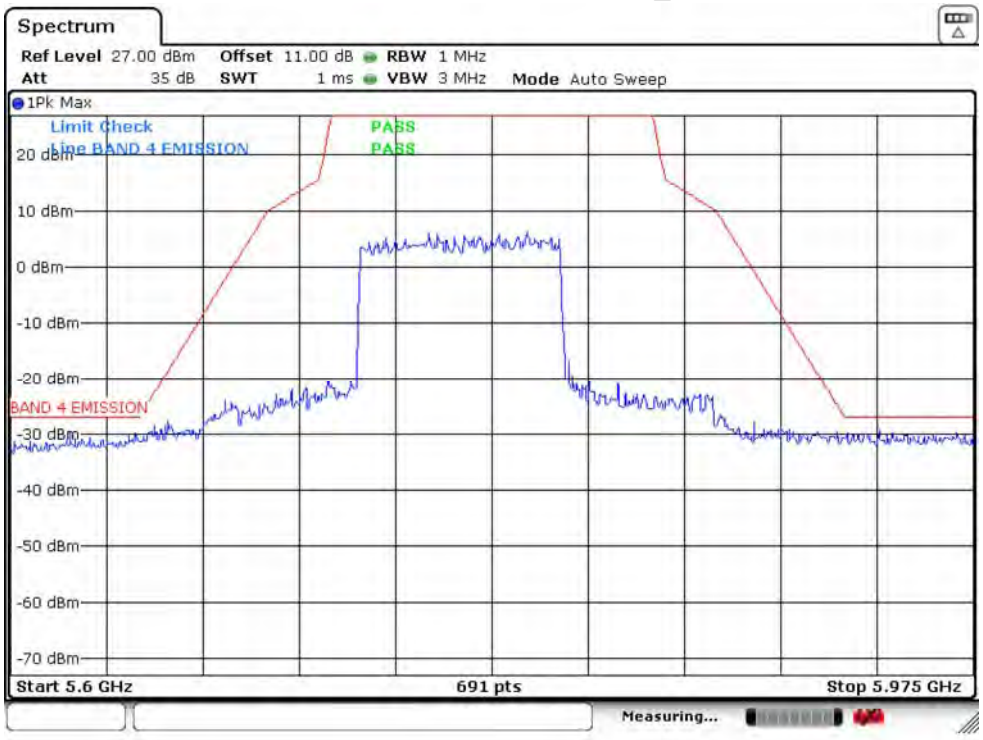


IEEE 802.11ax HE80 5775MHz_Ant 2



18000MHz-40000MHz

Pass

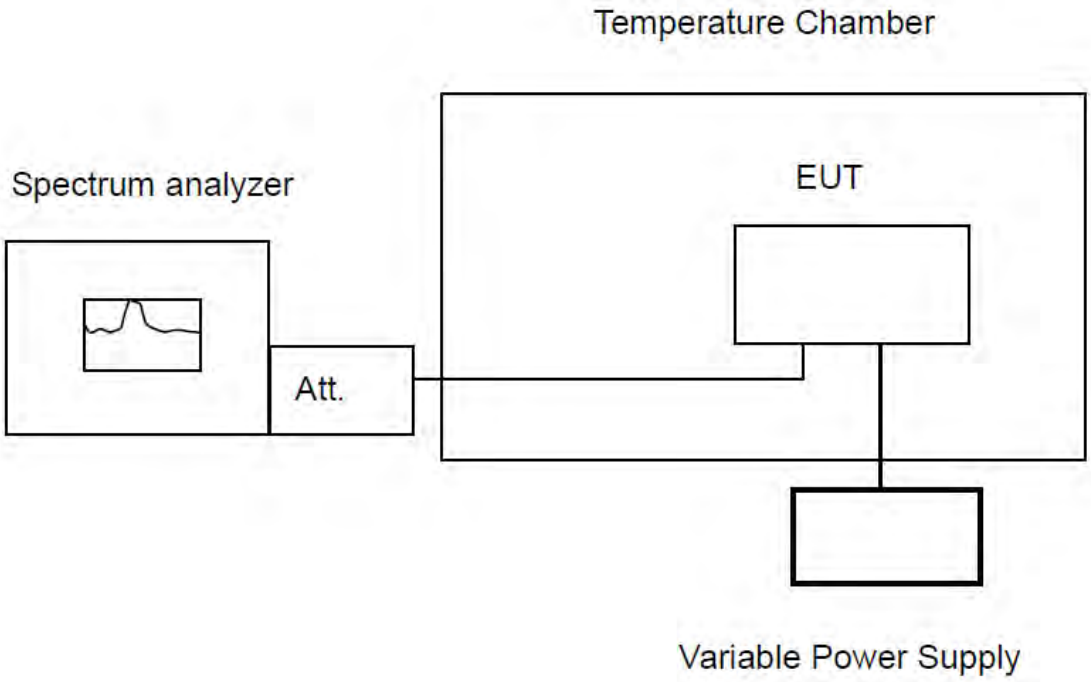
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7. FREQUENCY STABILITY

7.1. Limit

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 operational description.

7.2. Test Setup



7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

7.4. Test Procedure

For measurement frequency stability under temperature variation :

a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
b. Turn the EUT OFF and place it inside the environmental temperature chamber.
c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
d. Spectrum analyzer setting parameters in accordance with section 7.3.
e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
h. Repeat step d through step f to measured the temperature form -20℃ to +50℃ in 10℃ steps.

For frequency stability under voltage variation:

a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
b. Turn the EUT OFF and place it inside the environmental temperature chamber.
c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
d. Spectrum analyzer setting parameters in accordance with section 7.3.
e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature (+15℃ to +25℃) and allow the oscillator heater and the chamber temperature to stabilize.
f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
g. Record the operating frequency.
h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5. Test Result

Frequency (MHz)	Voltage (V)	Temperature (℃)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5180	120	50	0	5179.9804730	-3.77
			2	5179.9864720	-2.61
			5	5179.9880020	-2.32
			10	5179.9878060	-2.35
	120	40	0	5179.9806040	-3.74
			2	5179.9865020	-2.61
			5	5179.9871360	-2.48
			10	5179.9828820	-3.30
	120	30	0	5179.9817560	-3.52
			2	5179.9863230	-2.64
			5	5179.9812690	-3.62
			10	5179.9829700	-3.29
	120	20	0	5179.9846400	-2.97
			2	5179.9864450	-2.62
			5	5179.9850950	-2.88
			10	5179.9875130	-2.41
	120	10	0	5179.9869810	-2.51
			2	5179.9846980	-2.95
			5	5179.9866720	-2.57
			10	5179.9831350	-3.26
	120	0	0	5179.9872710	-2.46
			2	5179.9832190	-3.24
			5	5179.9814000	-3.59
			10	5179.9823230	-3.41
	120	-10	0	5179.9812890	-3.61
			2	5179.9877270	-2.37
			5	5179.9808100	-3.70
			10	5179.9849280	-2.91
	120	-20	0	5179.9818270	-3.51
			2	5179.9874650	-2.42
			5	5179.9857070	-2.76
			10	5179.9813450	-3.60
	120	20	/	5179.9817110	-3.53
	102	20	/	5179.9878880	-2.34
	138	20	/	5179.9807230	-3.72
	MAX Frquency Error(ppm)				**-2.32**

Frequency (MHz)	Voltage (V)	Temperature (℃)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5320	120	50	0	5259.9794730	-3.90
			2	5259.9804730	-3.71
			5	5259.9814730	-3.52
			10	5259.9807070	-3.67
	120	40	0	5259.9797000	-3.86
			2	5259.9798570	-3.83
			5	5259.9811850	-3.58
			10	5259.9811980	-3.57
	120	30	0	5259.9807430	-3.66
			2	5259.9809950	-3.61
			5	5259.9797890	-3.84
			10	5259.9808710	-3.64
	120	20	0	5259.9794960	-3.90
			2	5259.9799560	-3.81
			5	5259.9804130	-3.72
			10	5259.9803510	-3.74
	120	10	0	5259.9807360	-3.66
			2	5259.9814580	-3.53
			5	5259.9800430	-3.79
			10	5259.9801440	-3.77
	120	0	0	5259.9806350	-3.68
			2	5259.9805990	-3.69
			5	5259.9802680	-3.75
			10	5259.9801460	-3.77
	120	-10	0	5259.9808740	-3.64
			2	5259.9802860	-3.75
			5	5259.9808760	-3.64
			10	5259.9797440	-3.85
	120	-20	0	5259.9802920	-3.75
			2	5259.9812590	-3.56
			5	5259.9798780	-3.83
			10	5259.9810470	-3.60
	120	20	/	5259.9804260	-3.72
	102	20	/	5259.9803760	-3.73
	138	20	/	5259.9805150	-3.70
	MAX Frquency Error(ppm)				**-3.52**

Frequency (MHz)	Voltage (V)	Temperature (℃)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5500	120	50	0	5499.9804730	-3.55
			2	5499.9834730	-3.00
			5	5499.9844730	-2.82
			10	5499.9808790	-3.48
	120	40	0	5499.9812140	-3.42
			2	5499.9818480	-3.30
			5	5499.9822510	-3.23
			10	5499.9809680	-3.46
	120	30	0	5499.9837340	-2.96
			2	5499.9823930	-3.20
			5	5499.9816570	-3.34
			10	5499.9844160	-2.83
	120	20	0	5499.9834510	-3.01
			2	5499.9813890	-3.38
			5	5499.9817110	-3.33
			10	5499.9822730	-3.22
	120	10	0	5499.9810200	-3.45
			2	5499.9838600	-2.93
			5	5499.9825700	-3.17
			10	5499.9835410	-2.99
	120	0	0	5499.9816950	-3.33
			2	5499.9845000	-2.82
			5	5499.9823080	-3.22
			10	5499.9840150	-2.91
	120	-10	0	5499.9837680	-2.95
			2	5499.9813850	-3.38
			5	5499.9822210	-3.23
			10	5499.9817840	-3.31
	120	-20	0	5499.9830620	-3.08
			2	5499.9829820	-3.09
			5	5499.9830210	-3.09
			10	5499.9825860	-3.17
	120	20	/	5499.9839500	-2.92
	102	20	/	5499.9828770	-3.11
	138	20	/	5499.9817400	-3.32
	MAX Frquency Error(ppm)				**-2.82**

Frequency (MHz)	Voltage (V)	Temperature (℃)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5745	120	50	0	5744.9764730	-4.10
			2	5744.9794730	-3.57
			5	5744.9824730	-3.05
			10	5744.9773200	-3.95
	120	40	0	5744.9790720	-3.64
			2	5744.9814950	-3.22
			5	5744.9824010	-3.06
			10	5744.9814450	-3.23
	120	30	0	5744.9789410	-3.67
			2	5744.9815490	-3.21
			5	5744.9770020	-4.00
			10	5744.9819680	-3.14
	120	20	0	5744.9793380	-3.60
			2	5744.9801660	-3.45
			5	5744.9774360	-3.93
			10	5744.9789370	-3.67
	120	10	0	5744.9799570	-3.49
			2	5744.9798350	-3.51
			5	5744.9791450	-3.63
			10	5744.9790350	-3.65
	120	0	0	5744.9798320	-3.51
			2	5744.9813680	-3.24
			5	5744.9806610	-3.37
			10	5744.9800650	-3.47
	120	-10	0	5744.9794120	-3.58
			2	5744.9808370	-3.34
			5	5744.9822870	-3.08
			10	5744.9824000	-3.06
	120	-20	0	5744.9821690	-3.10
			2	5744.9799720	-3.49
			5	5744.9804120	-3.41
			10	5744.9776490	-3.89
	120	20	/	5744.9790480	-3.65
	102	20	/	5744.9801780	-3.45
	138	20	/	5744.9780130	-3.83
	MAX Frquency Error(ppm)				**-3.05**

8. AC POWER LINE CONDUCTED EMISSIONS

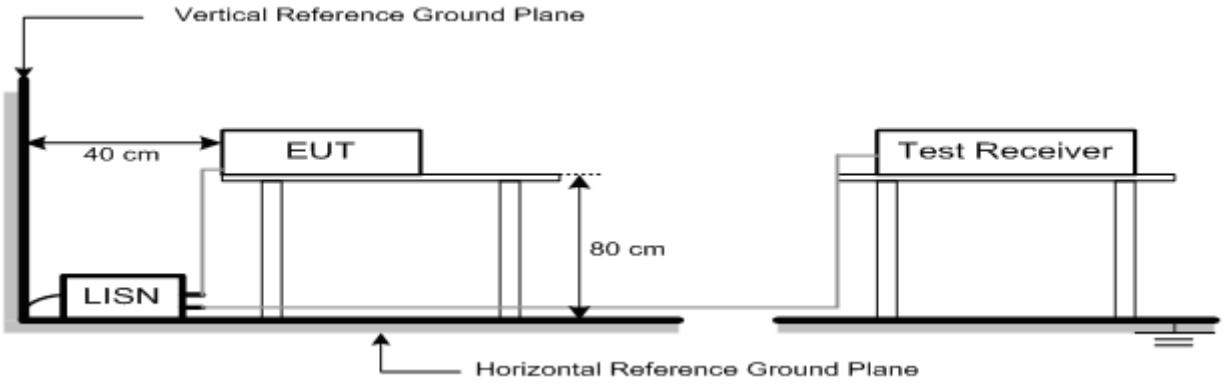
8.1. Limit

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

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2. Test Setup



8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

8.4. Test Procedure

a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
b. The EUT Power connected to the power mains through a line impedance stabilization network.
c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
d. Set the EUT transmit continuously with maximum output power.
e. Spectrum analyzer setting parameters in accordance with section 8.3.
f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
g. Record the results in the test report.

8.5. Test Result

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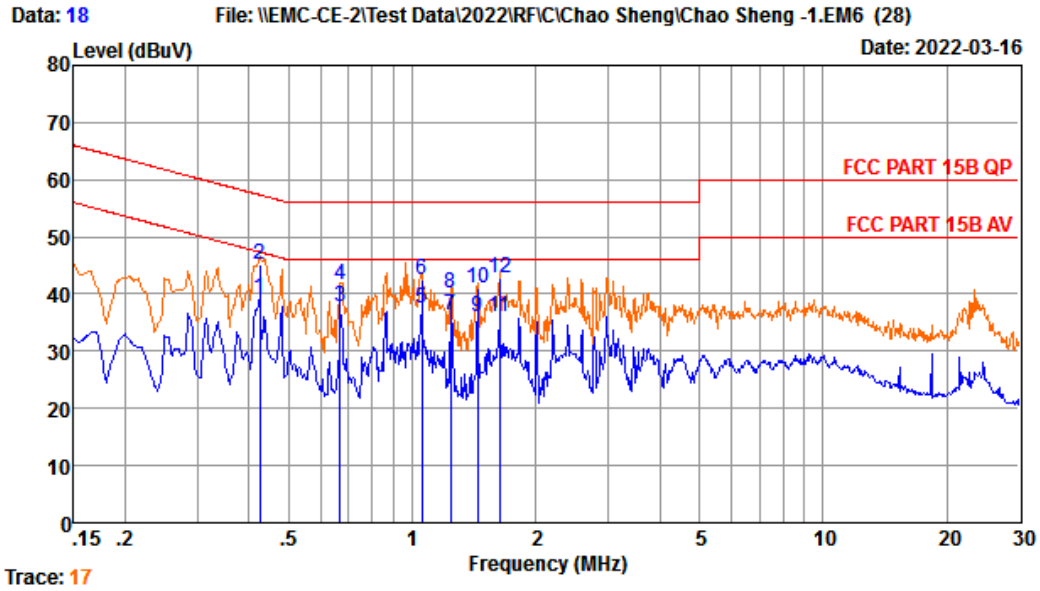

Site no : 2#CE Shield Room Data no. : 18
Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : Sound Bar
Power : AC 240V/60Hz
M/N : Beosound Theatre
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.426	9.85	9.92	19.54	39.31	47.33	8.02	Average
2	0.426	9.85	9.92	25.40	45.17	57.33	12.16	QP
3	0.668	9.82	9.92	17.94	37.68	46.00	8.32	Average
4	0.668	9.82	9.92	21.81	41.55	56.00	14.45	QP
5	1.054	9.93	9.94	17.73	37.60	46.00	8.40	Average
6	1.054	9.93	9.94	22.60	42.47	56.00	13.53	QP
7	1.242	9.91	9.94	16.49	36.34	46.00	9.66	Average
8	1.242	9.91	9.94	20.34	40.19	56.00	15.81	QP
9	1.441	9.86	9.95	16.23	36.04	46.00	9.96	Average
10	1.441	9.86	9.95	21.12	40.93	56.00	15.07	QP
11	1.628	9.91	9.95	16.17	36.03	46.00	9.97	Average
12	1.628	9.91	9.95	23.02	42.88	56.00	13.12	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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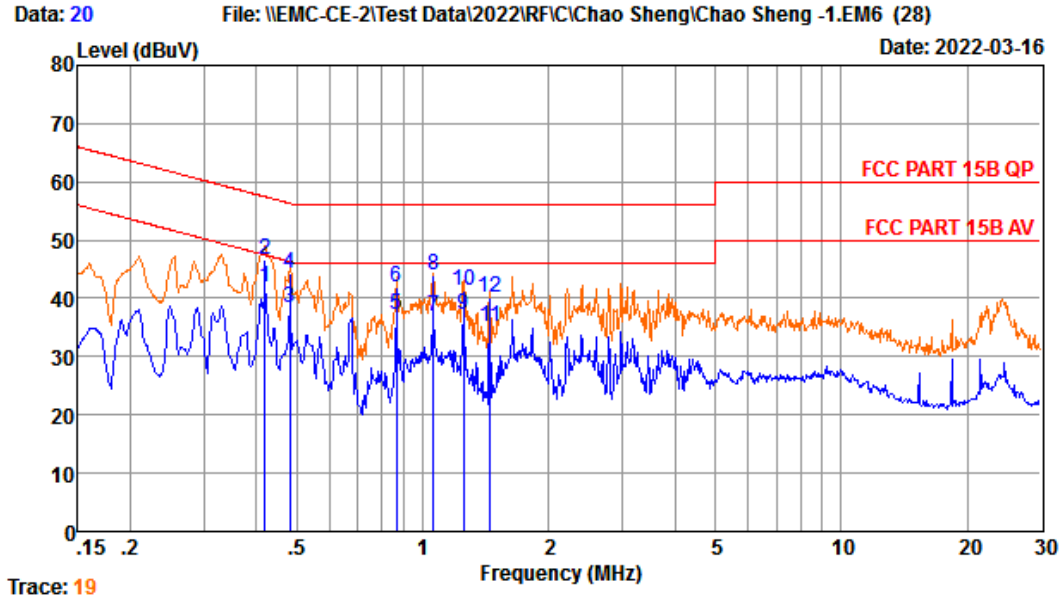

Site no : 2#CE Shield Room Data no. : 20
Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : Sound Bar
Power : AC 240V/60Hz
M/N : Beosound Theatre
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.419	9.73	9.92	22.31	41.96	47.46	5.50	Average
2	0.419	9.73	9.92	27.10	46.75	57.46	10.71	QP
3	0.481	9.76	9.92	18.79	38.47	46.32	7.85	Average
4	0.481	9.76	9.92	24.60	44.28	56.32	12.04	QP
5	0.866	9.85	9.93	17.41	37.19	46.00	8.81	Average
6	0.866	9.85	9.93	22.11	41.89	56.00	14.11	QP
7	1.060	9.82	9.94	17.13	36.89	46.00	9.11	Average
8	1.060	9.82	9.94	24.33	44.09	56.00	11.91	QP
9	1.249	9.82	9.94	17.40	37.16	46.00	8.84	Average
10	1.249	9.82	9.94	21.45	41.21	56.00	14.79	QP
11	1.449	9.85	9.95	15.42	35.22	46.00	10.78	Average
12	1.449	9.85	9.95	20.33	40.13	56.00	15.87	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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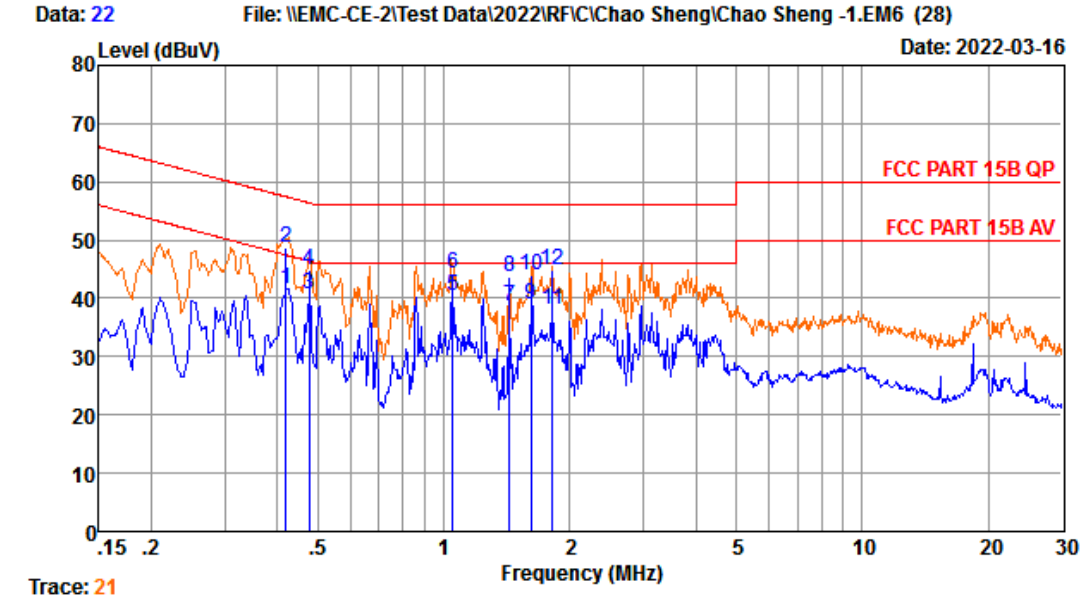

Site no : 2#CE Shield Room Data no. : 22
Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.419	9.85	9.92	21.95	41.72	47.46	5.74	Average
2	0.419	9.85	9.92	28.80	48.57	57.46	8.89	QP
3	0.476	9.84	9.92	21.12	40.88	46.41	5.53	Average
4	0.476	9.84	9.92	25.20	44.96	56.41	11.45	QP
5	1.049	9.93	9.94	20.58	40.45	46.00	5.55	Average
6	1.049	9.93	9.94	24.40	44.27	56.00	11.73	QP
7	1.433	9.87	9.95	18.98	38.80	46.00	7.20	Average
8	1.433	9.87	9.95	23.78	43.60	56.00	12.40	QP
9	1.619	9.91	9.95	19.25	39.11	46.00	6.89	Average
10	1.619	9.91	9.95	24.11	43.97	56.00	12.03	QP
11	1.819	10.00	9.95	18.03	37.98	46.00	8.02	Average
12	1.819	10.00	9.95	25.01	44.96	56.00	11.04	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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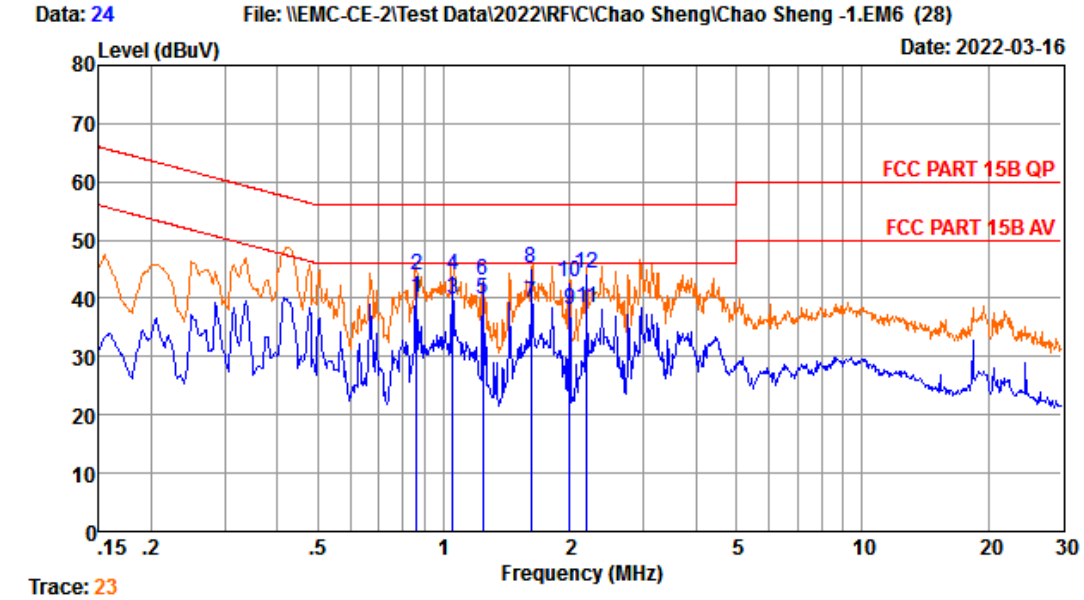

Site no : 2#CE Shield Room Data no. : 24
Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : Sound Bar
Power : AC 120V/60Hz
M/N : Beosound Theatre
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.862	9.85	9.93	20.36	40.14	46.00	5.86	Average
2	0.862	9.85	9.93	24.10	43.88	56.00	12.12	QP
3	1.049	9.82	9.94	20.08	39.84	46.00	6.16	Average
4	1.049	9.82	9.94	24.20	43.96	56.00	12.04	QP
5	1.242	9.82	9.94	20.05	39.81	46.00	6.19	Average
6	1.242	9.82	9.94	23.41	43.17	56.00	12.83	QP
7	1.619	9.89	9.95	19.54	39.38	46.00	6.62	Average
8	1.619	9.89	9.95	25.44	45.28	56.00	10.72	QP
9	2.001	9.96	9.96	18.06	37.98	46.00	8.02	Average
10	2.001	9.96	9.96	23.01	42.93	56.00	13.07	QP
11	2.201	9.96	9.96	18.45	38.37	46.00	7.63	Average
12	2.201	9.96	9.96	24.33	44.25	56.00	11.75	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

9. ANTENNA REQUIREMENTS

9.1. Limit

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2. Test Result

The antennas used for this product is Internal antenna ,so compliance with antenna requirements.
(Please refer to the EUT photo for details)

End of Test Report