

TEST REPORT

Product Name : 4K AndroidTV Set Top Box
Brand Mark : Claro
Model No. : DV8935
FCC ID : 2AW68-C8935
Report Number : BLA-EMC-202209-A5505
Date of Sample Receipt : 2022/9/23
Date of Test : 2022/10/16 to 2022/11/30
Date of Issue : 2022/11/30
47 CFR Part 15, Subpart E 15.407
ANSI C63.10-2013
Test Standard : KDB 789033 D02 v02r01
KDB 662911 D01 v02r01
KDB 905462 D02 v02
Test Result : Pass

Prepared for:

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Date:

2022/11/30



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/11/30	Original

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1 TEST summary

Test item	Test Requirement	Test Method	Class/Severity	Result
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10-2013 Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
DFS: Channel Closing Transmission Time	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	N/A
DFS: Non-occupancy period	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	N/A
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Transmitter Power Control	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (h)(1)	N/A
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10-2013 Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Remark:

N/A: Not Applicable

2 General information

Applicant	Shenzhen SDMC Technology Co.,Ltd.
Address	Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,
Manufacturer	Shenzhen SDMC Technology Co.,Ltd.
Address	Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,
Product Name	4K AndroidTV Set Top Box
Test Model No.	DV8935

3 General description of E.u.t.

Hardware Version	V1	
Software Version	Android 10	
Operation Frequency:	Band 1: 5180MHz-5240MHz; Band 2:5260MHz~5320MHz	Band 3: 5500MHz~5700MHz; Band 4: 5745MHz-5825MHz
Channel numbers:	Band 1: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1 Band 2: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1 Band 3: 802.11a/802.11n(HT20)/802.11ac(HT20): 11, 802.11n(HT40)/802.11ac(HT40):5, 802.11ac(HT80): 3 Band 4: 802.11a/802.11(HT20)/802.11ac(HT20): 5, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1	
Channel separation:	802.11a/n/ac(HT20): 20MHz, 802.11n/ac(HT40): 40MHz, 802.11ac(HT80): 80MHz	
Modulation technology: (IEEE 802.11a/n/ac)	BPSK, QPSK, 16-QAM, 64-QAM, 256QAM	
Data speed(IEEE 802.11a)	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps	
Data speed (IEEE 802.11n/ac):	Up to 866.7Mbps	
Antenna Type:	PCB antenna	
Antenna gain:	Antenna 1: 3.24dBi; Antenna 2: 3.50dBi (Provided by antenna specification)	
Antenna information:	Antenna number: 2 SISO mode: 802.11a/802.11n(HT20)/ 802.11n(HT40)/ 802.11ac(HT20)/ 802.11ac(HT40)/ 802.11ac(HT80) MIMO mode: 802.11n(HT20)/ 802.11n(HT40)/ 802.11ac(HT20)/ 802.11ac(HT40)/ 802.11ac(HT80) Directional gain = $10 \log[(10^{ANT1} / 20 + 10^{ANT2} / 20)^2 / N_{ANT}]$ dBi $= 10 \log[(10^{3.19} / 20 + 10^{3.09} / 20)^2 / 2] = 6.38$ dBi	
EUT accessories:	High speed HDMI cable with Ethernet	Cable length , 1.8m
	Wireless remote control	WH191209B
	AC adapter 1#	Model: DCT12W120100US-A0 Input: 100-240V~50/60Hz 0.3A, Output: 12V=1A
	AC adapter 2#	Model: TPQ-368D120100UW01 Input: 100-240V~50/60Hz 0.4A, Output: 12V=1A

4 test environment

Environment	Temperature	Voltage
Normal	25°C	DC 12V

5 Test mode

TEST MODE	TEST MODE DESCRIPTION
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation.
Remark: only the data of the worst mode would be recorded in this report.	

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

7 Description of SUPPORT unit

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	K610D	N/A	N/A

8 Laboratory Location

All tests were performed at:
BlueAsia Technical Services(Shenzhen) Co.,Ltd.
No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen,
Guangdong ,China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

9 Test instruments list

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber 1	SKET	966	N/A	2020/11/10	2023/11/09
Chamber 2	SKET	966	N/A	2021/07/20	2024/07/19
Spectrum	R&S	FSP40	100817	2022/09/15	2023/09/14
Receiver	R&S	ESR7	101199	2022/09/15	2023/09/14
Receiver	R&S	ESPI7	101477	2022/07/16	2023/07/15
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2022/09/15	2023/09/14
Horn Antenna	Schwarzbeck	BBHA9120D	01892 P:00331	2022/09/13	2025/09/12
Amplifier	SKET	LNPA_30M01G-30	SK2021060801	2022/07/16	2023/07/15
Amplifier	SKET	PA-000318G-45	N/A	2022/09/13	2023/09/12
Amplifier	SKET	LNPA_18G40G-50	SK2022071301	2022/07/14	2023/07/13
Filter group	SKET	2.4G/5G Filter group r	N/A	2022/07/16	2023/07/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2022/9/14	2025/9/13
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2022/09/14	2023/09/13
LISN	R&S	ENV216	3560.6550.15	2022/09/14	2023/09/13
LISN	AT	AT166-2	AKK1806000003	2022/09/14	2023/09/13
ISN	TESEQ	ISNT8-cat6	53580	2022/09/14	2023/09/13
Single-channel vehicle artificial power network	Schwarzbeck	NNBM 8124	01045	2022/08/17	2023/08/16
Single-channel vehicle artificial power network	Schwarzbeck	NNBM 8124	01075	2022/08/17	2023/08/16
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

Test Equipment Of RF Conducted Test					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2022/09/15	2023/09/14
Spectrum	Agilent	N9020A	MY49100060	2022/09/07	2023/09/06
Spectrum	KEYSIGHT	N9030A	MY52350152	2022/07/01	2023/06/30
Spectrum	KEYSIGHT	N9010A	MY54330814	2022/07/01	2023/06/30
Signal Generator	Agilent	N5182A	MY47420955	2022/09/07	2023/09/06
Signal Generator	Agilent	E8257D	MY44320250	2022/07/01	2023/06/30
Signal Generator	Agilent	N5181A	MY46240904	2022/08/02	2023/08/01
Signal Generator	R&S	CMW500	132429	2022/09/07	2023/09/06
BluetoothTester	Anritsu	MT8852B	06262047872	2022/09/07	2023/09/06
Power probe	DARE	RPR3006W	14I00889SN042	2022/09/07	2023/09/06
DCPowersupply	zhaoxin	KXN-305D	20K305D1221363	2022/09/14	2023/09/13
DCPowersupply	zhaoxin	RXN-1505D	19R1505D050168	2022/09/14	2023/09/13
2.4GHz/5GHz RF Test software	MTS	MTS 8310	Version 2.0.0.0	N/A	N/A

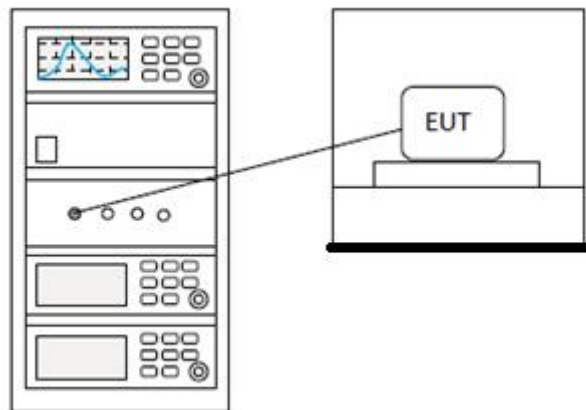
10 Frequency Stability

Test Standard	47 CFR Part 15, Subpart E 15.407(g)
Test Method	ANSI C63.10-2013 Section 6.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

10.1 LIMITS

Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
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10.2 BLOCK DIAGRAM OF TEST SETUP



10.3 TEST Data

Pass: Please Refer To Appendix: Appendix 1 For Details

11 Radiated Emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247(a) 47 CFR Part 15, Subpart C 15.205 47 CFR Part 15, Subpart C 15.209
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

11.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

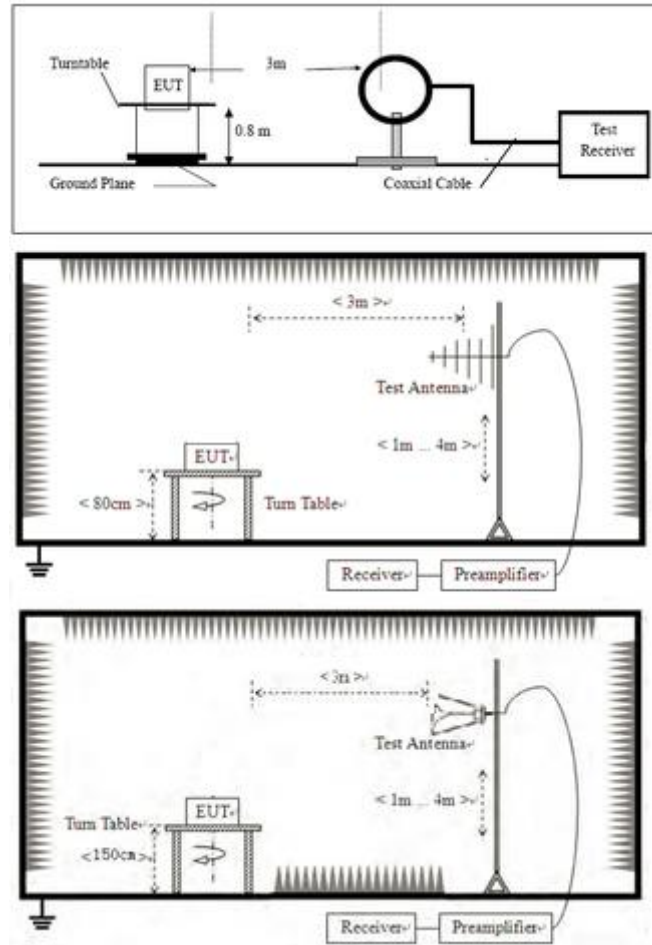
§15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below.

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)
13.36-13.41			

(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 PROCEDURE

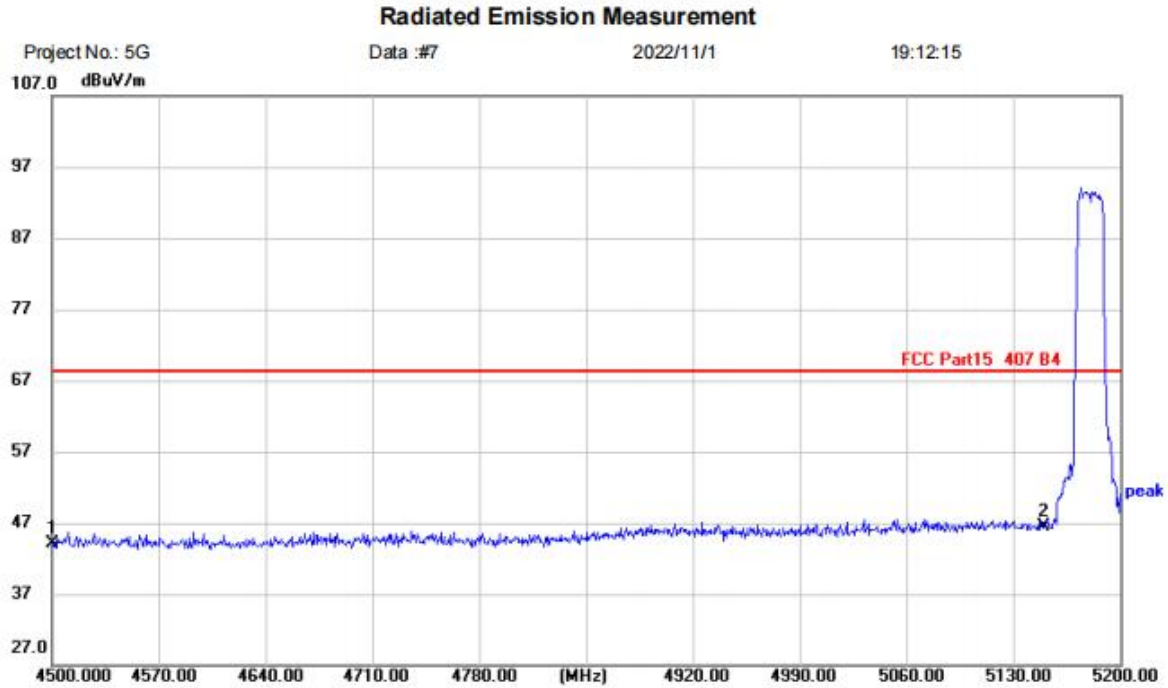
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
 - i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
 - j. Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

11.4 TEST Data

Note: All 802.11a/n/ac modes are tested, and only the worst case (802.11a mode) is displayed in the test report

[TestMode: TX band 1 a 5180 channel]; [Polarity: Horizontal]

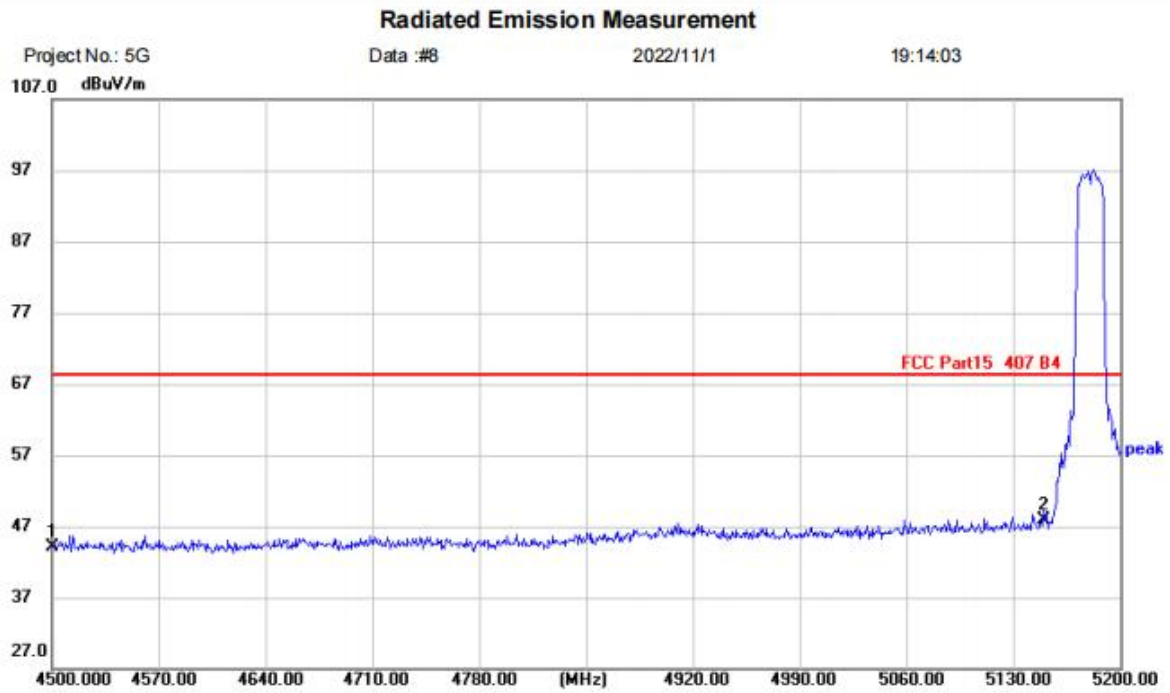


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 407 B4	Power:	Humidity: %RH
EUT: 4K AndroidTV Set Top Box		
M/N: DV8935		
Mode: 5G Band1 A TX-L		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4500.000	43.72	0.37	44.09	68.20	-24.11	peak	
2	*	5150.000	42.88	3.66	46.54	68.20	-21.66	peak	

Test Result: Pass

[TestMode: TX band 1 a 5180 channel]; [Polarity: Vertical]

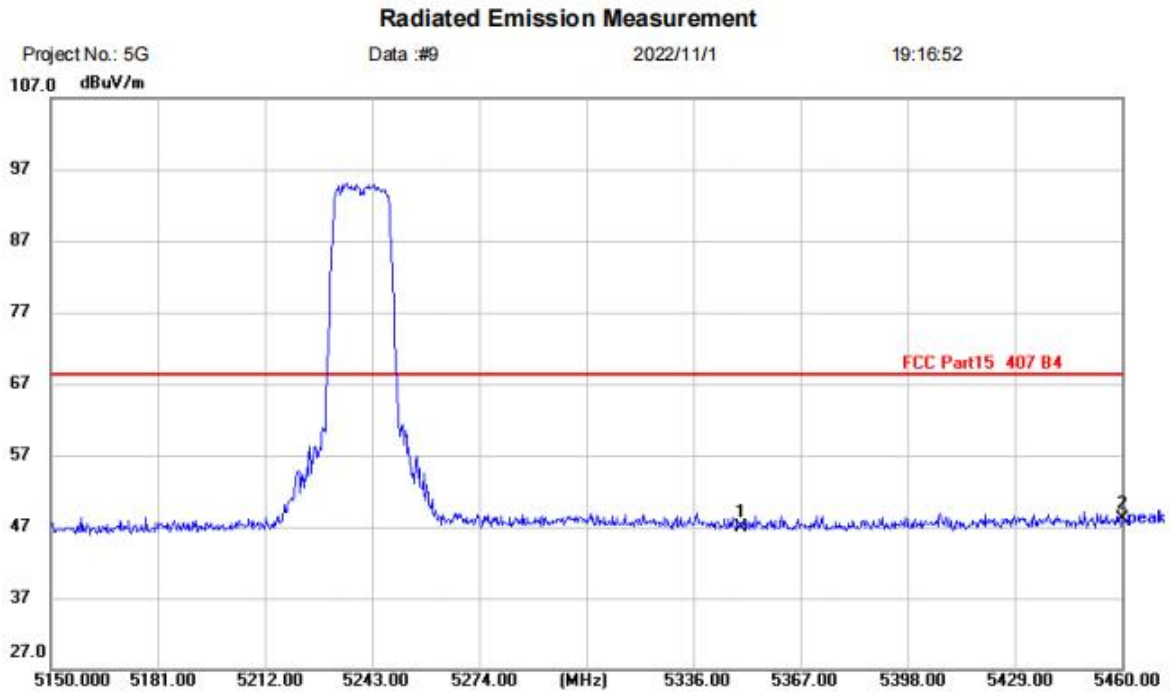


Site Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band1 A TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		4500.000	43.75	0.37	44.12	68.20	-24.08	peak	
2	*	5150.000	44.28	3.66	47.94	68.20	-20.26	peak	

Test Result: Pass

[TestMode: TX band1 a 5240 channel]; [Polarity: Horizontal]

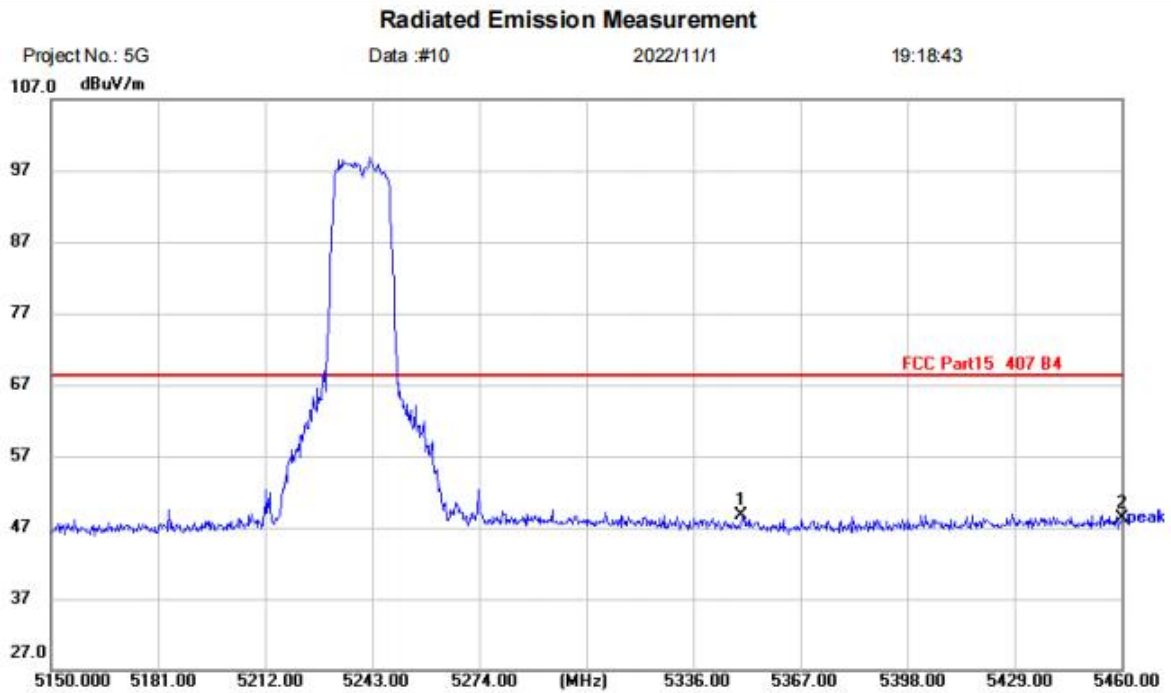


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band1 A TX-H
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5350.000	42.69	4.18	46.87	68.20	-21.33	peak	
2	*	5460.000	43.70	4.48	48.18	68.20	-20.02	peak	

Test Result: Pass

[TestMode: TX band1 a 5240 channel]; [Polarity: Vertical]

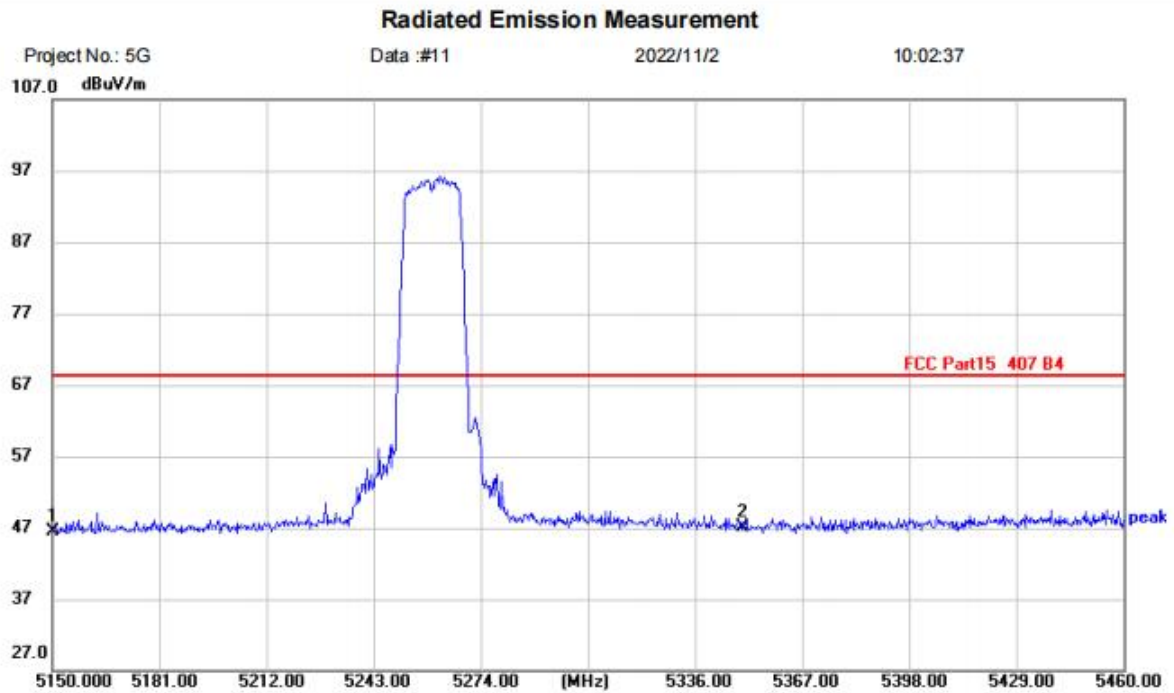


Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band1 A TX-H
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5350.000	44.58	4.18	48.76	68.20	-19.44	peak	
2		5460.000	43.83	4.48	48.31	68.20	-19.89	peak	

Test Result: Pass

[TestMode: TX band2 a 5280 channel]; [Polarity: Horizontal]

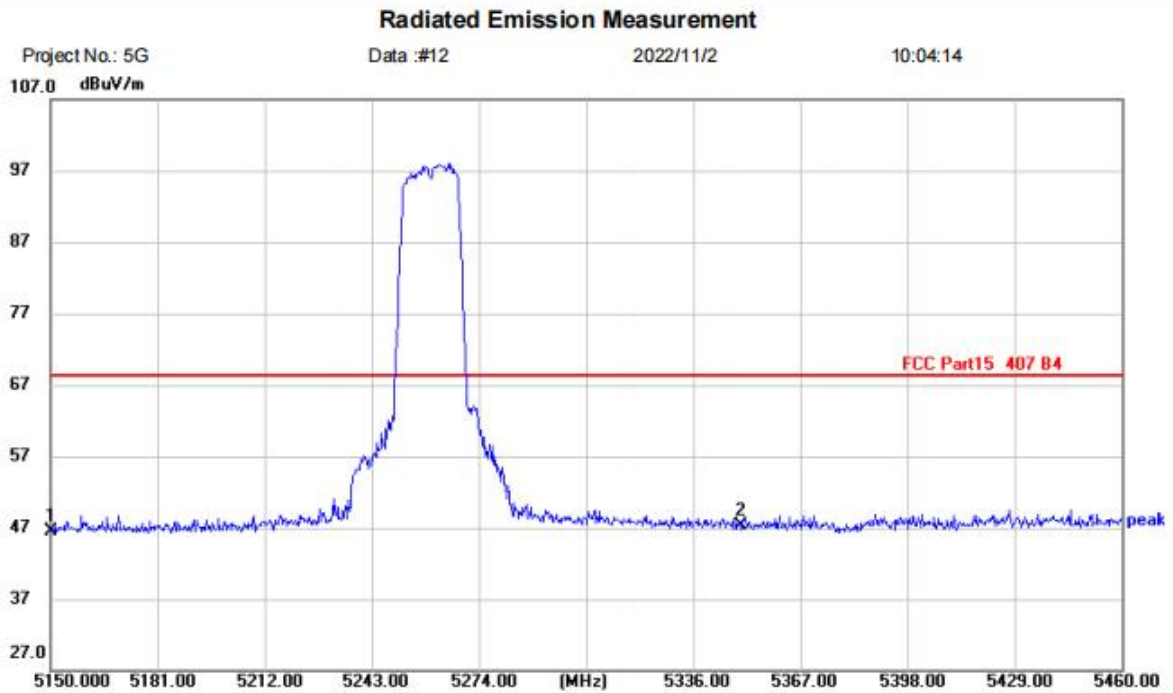


Site Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5150.000	42.75	3.66	46.41	68.20	-21.79	peak	
2	*	5350.000	42.97	4.18	47.15	68.20	-21.05	peak	

Test Result: Pass

[TestMode: TX band2 a 5280 channel]; [Polarity: Vertical]



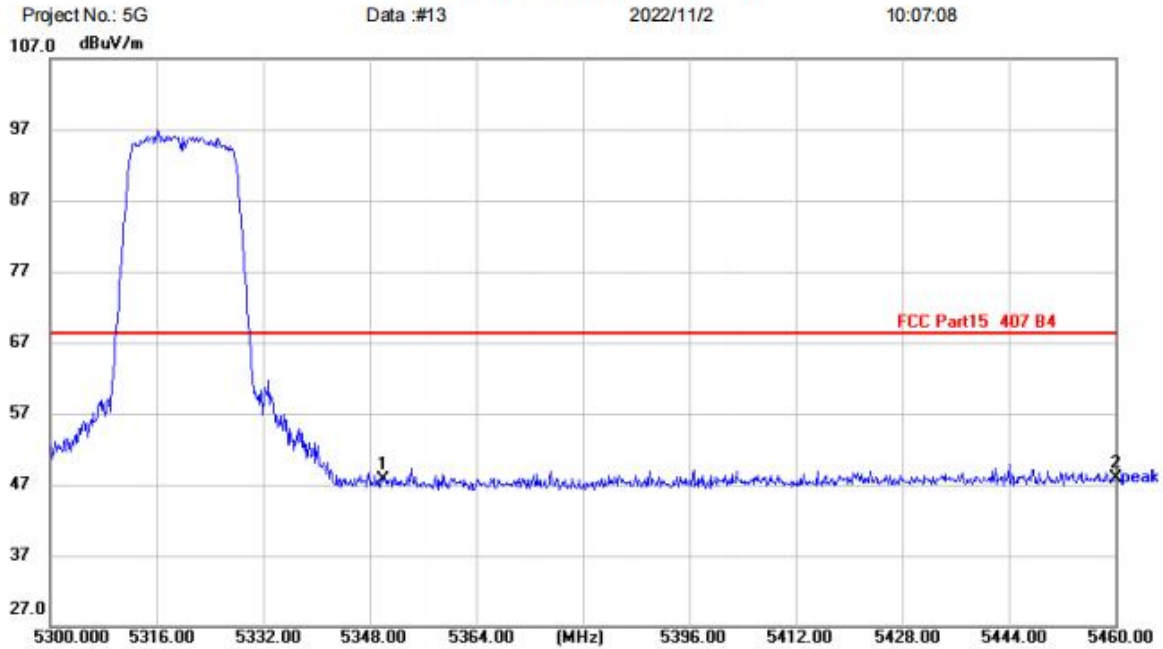
Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5150.000	42.78	3.66	46.44	68.20	-21.76	peak	
2	*	5350.000	43.09	4.18	47.27	68.20	-20.93	peak	

Test Result: Pass

[TestMode: TX band2 a 5320 channel]; [Polarity: Horizontal]

Radiated Emission Measurement



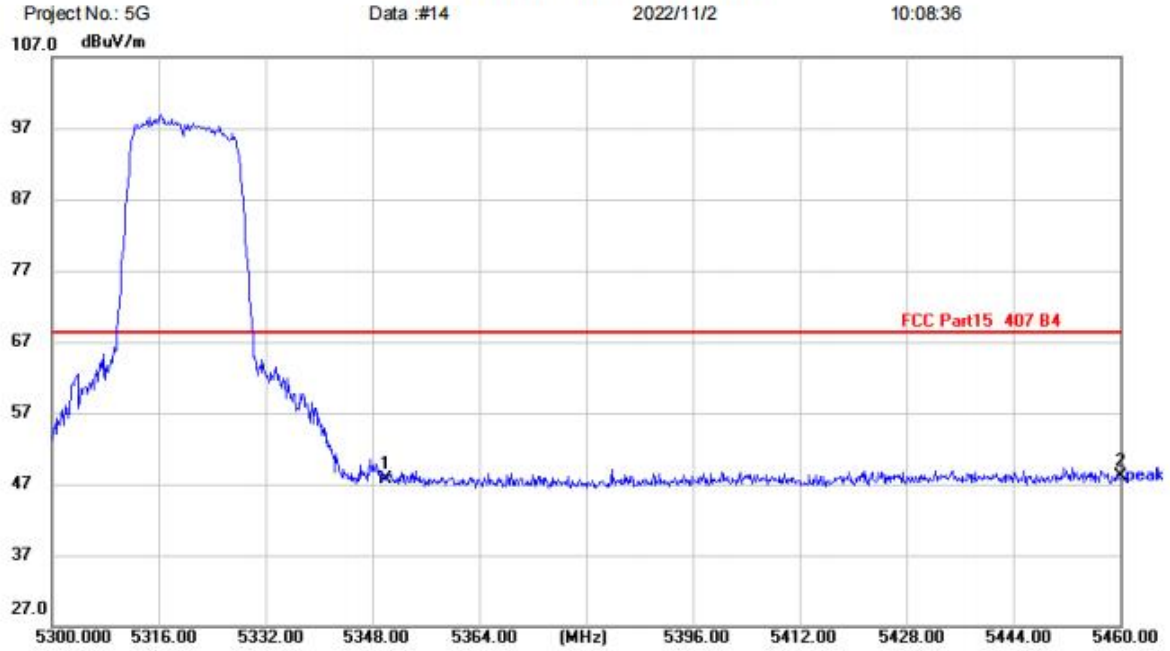
Site Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-H
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5350.000	43.46	4.18	47.64	68.20	-20.56	peak	
2	*	5460.000	43.33	4.48	47.81	68.20	-20.39	peak	

Test Result: Pass

[TestMode: TX band2 a 5320 channel]; [Polarity: Vertical]

Radiated Emission Measurement

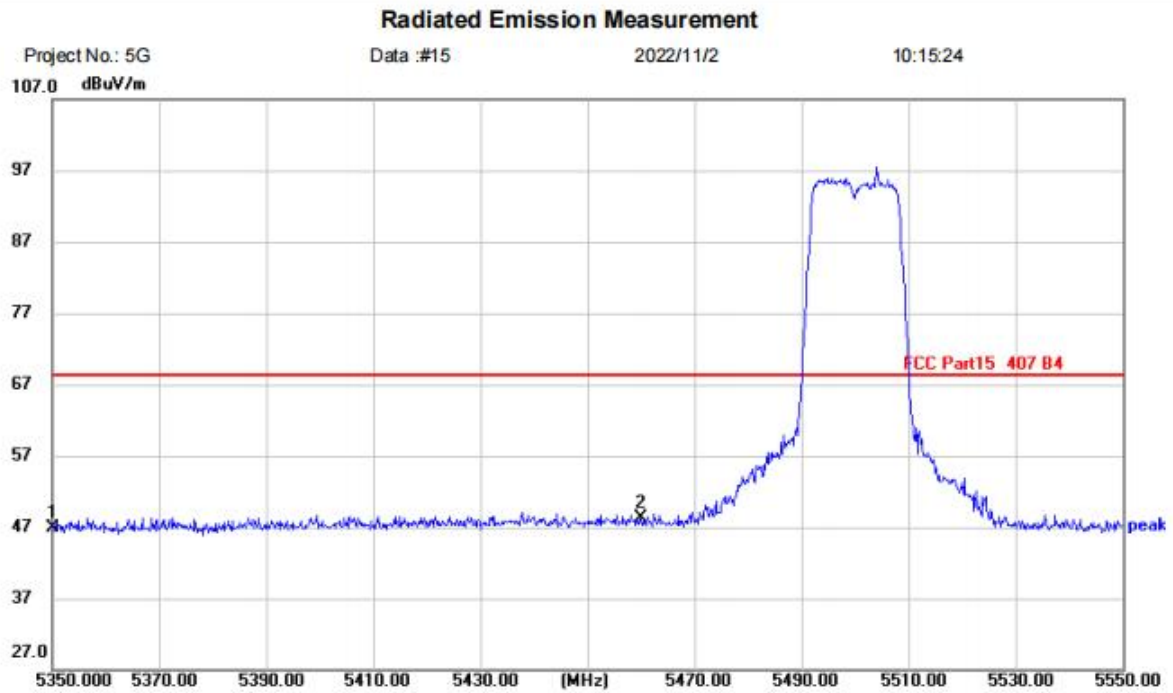


Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-H
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5350.000	43.56	4.18	47.74	68.20	-20.46	peak	
2	*	5460.000	43.68	4.48	48.16	68.20	-20.04	peak	

Test Result: Pass

[TestMode: TX band3 a 5500 channel]; [Polarity: Horizontal]

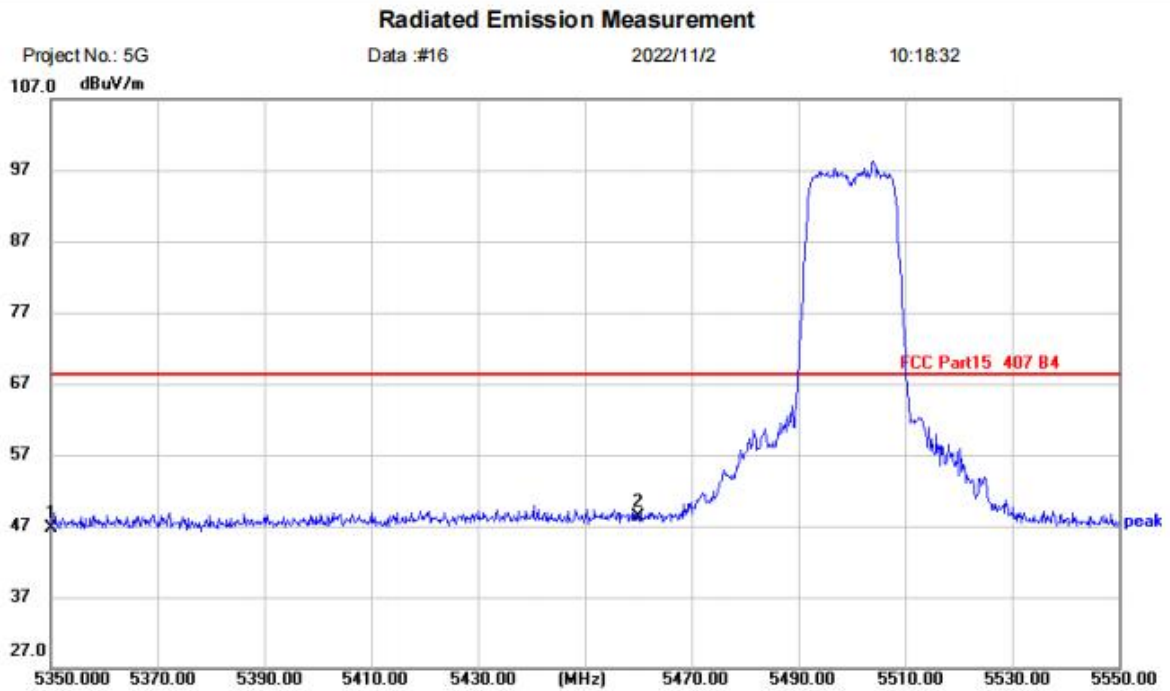


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band3 A TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5350.000	42.72	4.18	46.90	68.20	-21.30	peak	
2	*	5460.000	43.73	4.48	48.21	68.20	-19.99	peak	

Test Result: Pass

[TestMode: TX band3 a 5500 channel]; [Polarity: Vertical]

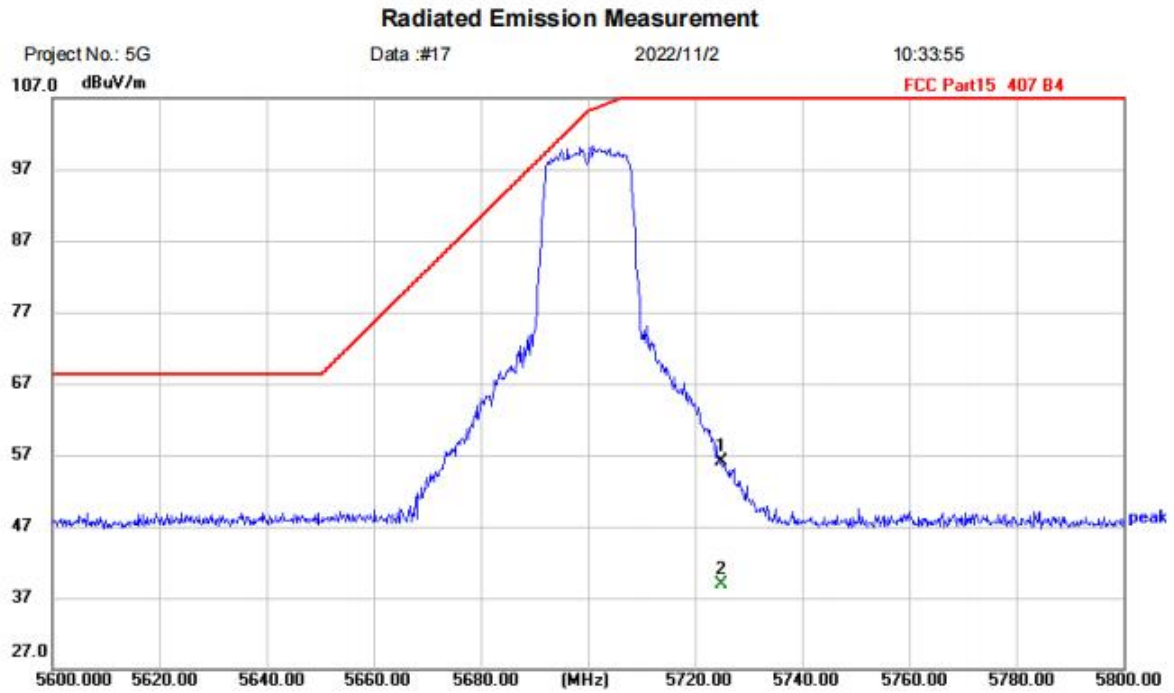


Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band3 A TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5350.000	42.59	4.18	46.77	68.20	-21.43	peak	
2	*	5460.000	43.84	4.48	48.32	68.20	-19.88	peak	

Test Result: Pass

[TestMode: TX band3 a 5700 channel]; [Polarity: Horizontal]

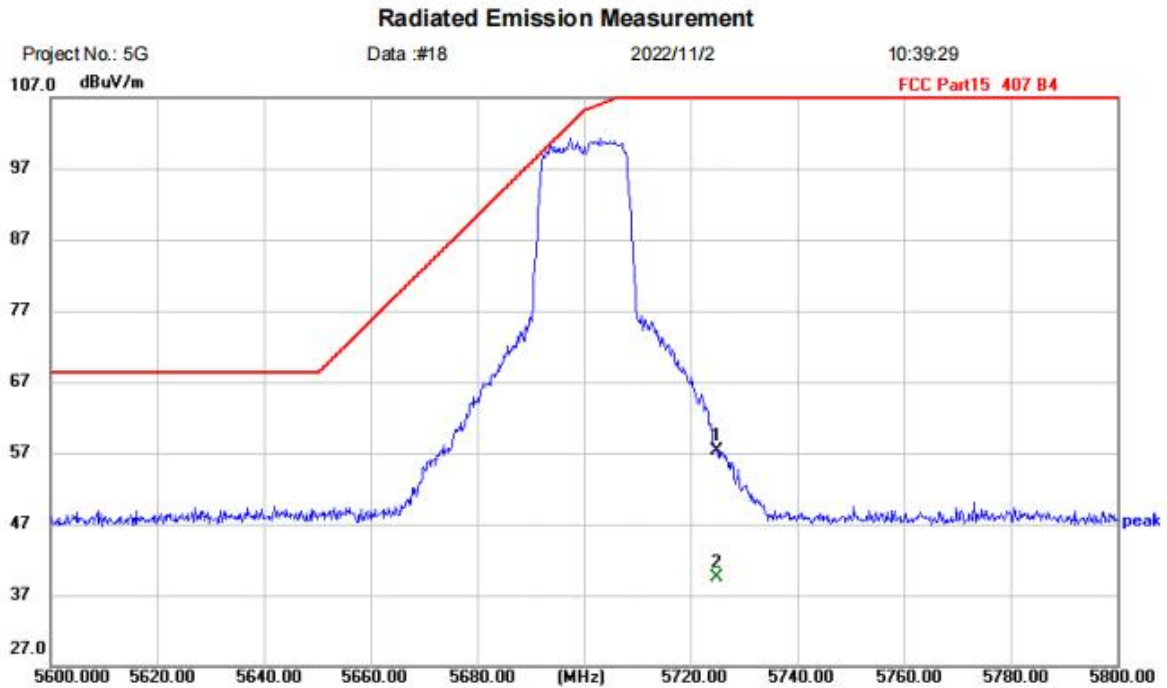


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 407 B4	Power:	Humidity: %RH
EUT: 4K AndroidTV Set Top Box		
M/N: DV8935		
Mode: 5G Band3 A TX-H		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5725.000	51.39	4.66	56.05	122.20	-66.15	peak	
2		5725.000	34.22	4.66	38.88	122.20	-83.32	AVG	

Test Result: Pass

[TestMode: TX band3 a 5700 channel]; [Polarity: Vertical]

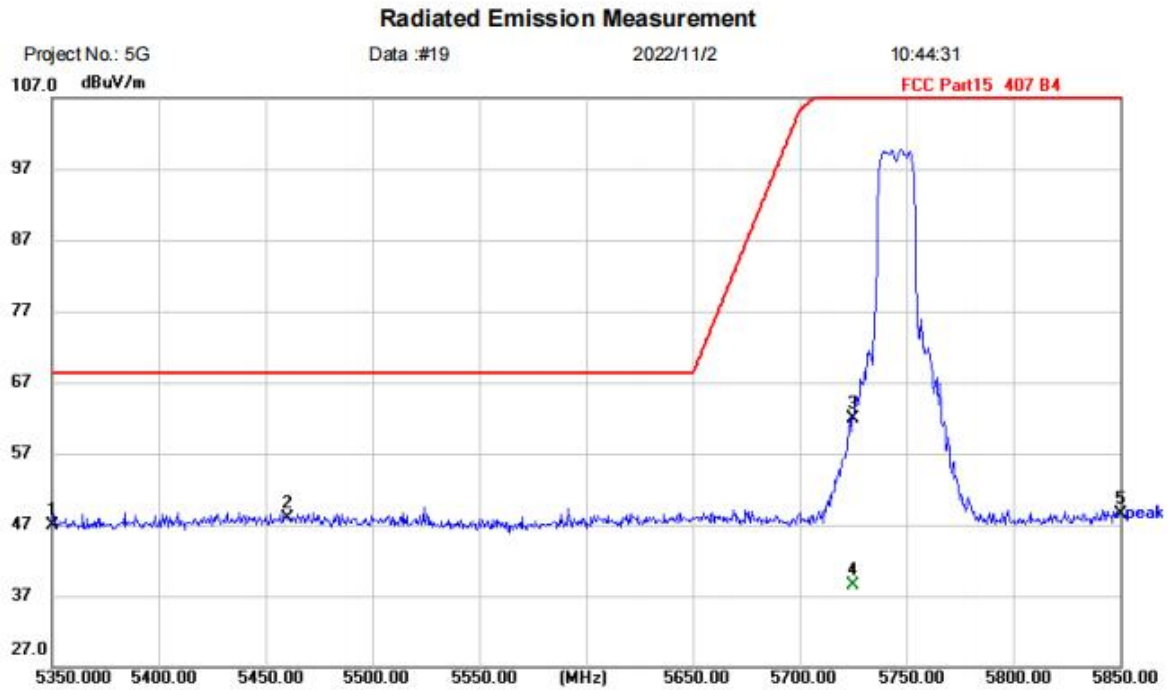


Site Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band3 A TX-H
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5725.000	52.63	4.66	57.29	122.20	-64.91	peak	
2	*	5725.000	34.79	4.66	39.45	54.00	-14.55	AVG	

Test Result: Pass

[TestMode: TX band4 a 5745 channel]; [Polarity: Horizontal]

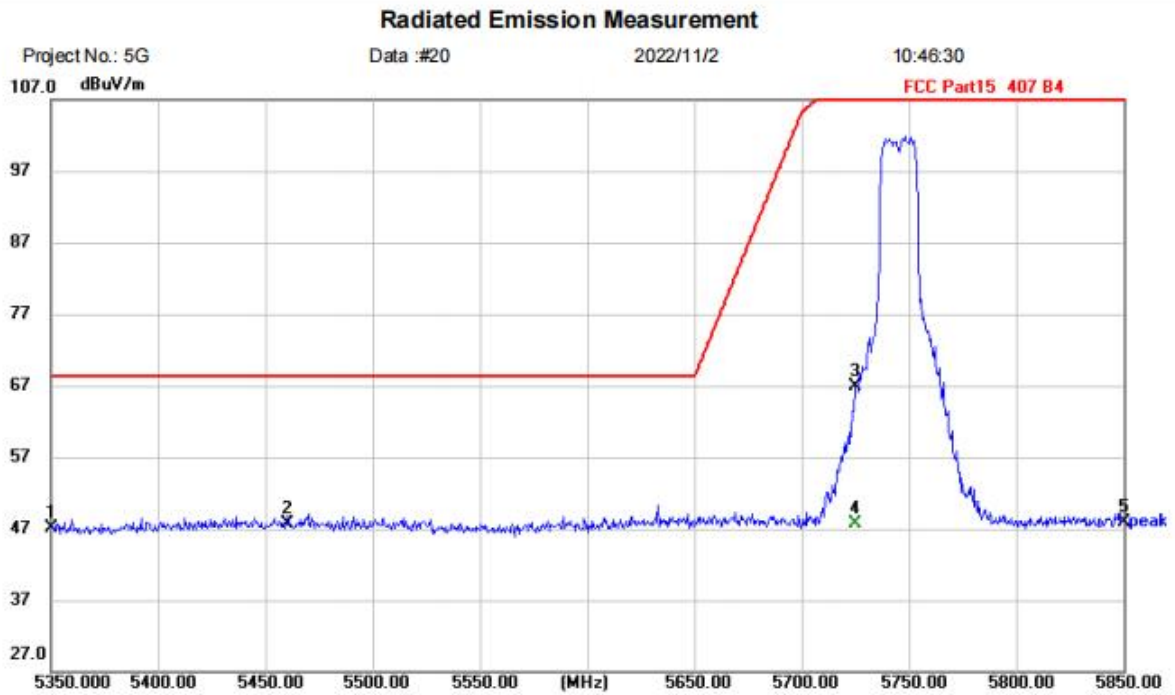


Site Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band4 A TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5350.000	42.77	4.18	46.95	68.20	-21.25	peak	
2		5460.000	43.50	4.48	47.98	68.20	-20.22	peak	
3		5725.000	57.29	4.66	61.95	122.20	-60.25	peak	
4	*	5725.000	33.91	4.66	38.57	54.00	-15.43	AVG	
5		5850.000	43.77	4.69	48.46	122.20	-73.74	peak	

Test Result: Pass

[TestMode: TX band4 a 5745 channel]; [Polarity: Vertical]

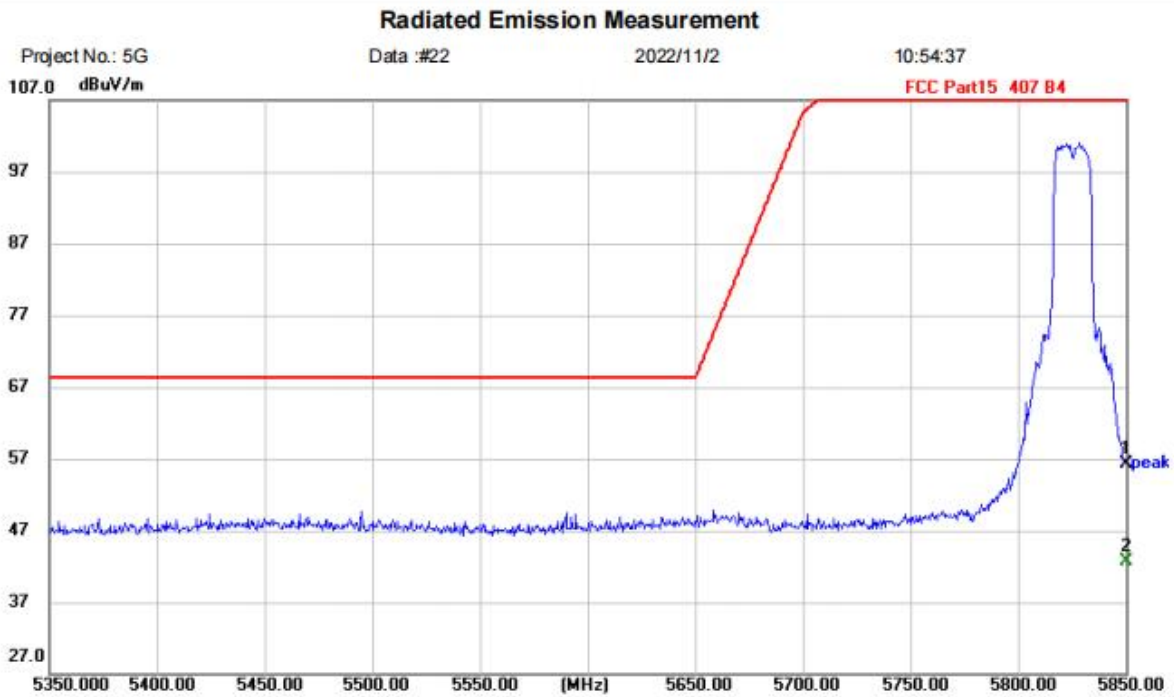


Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band4 A TX-L
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5350.000	42.99	4.18	47.17	68.20	-21.03	peak	
2		5460.000	43.15	4.48	47.63	68.20	-20.57	peak	
3		5725.000	62.28	4.66	66.94	122.20	-55.26	peak	
4	*	5725.000	43.14	4.66	47.80	54.00	-6.20	AVG	
5		5850.000	43.22	4.69	47.91	122.20	-74.29	peak	

Test Result: Pass

[TestMode: TX band4 a 5825 channel]; [Polarity: Vertical]

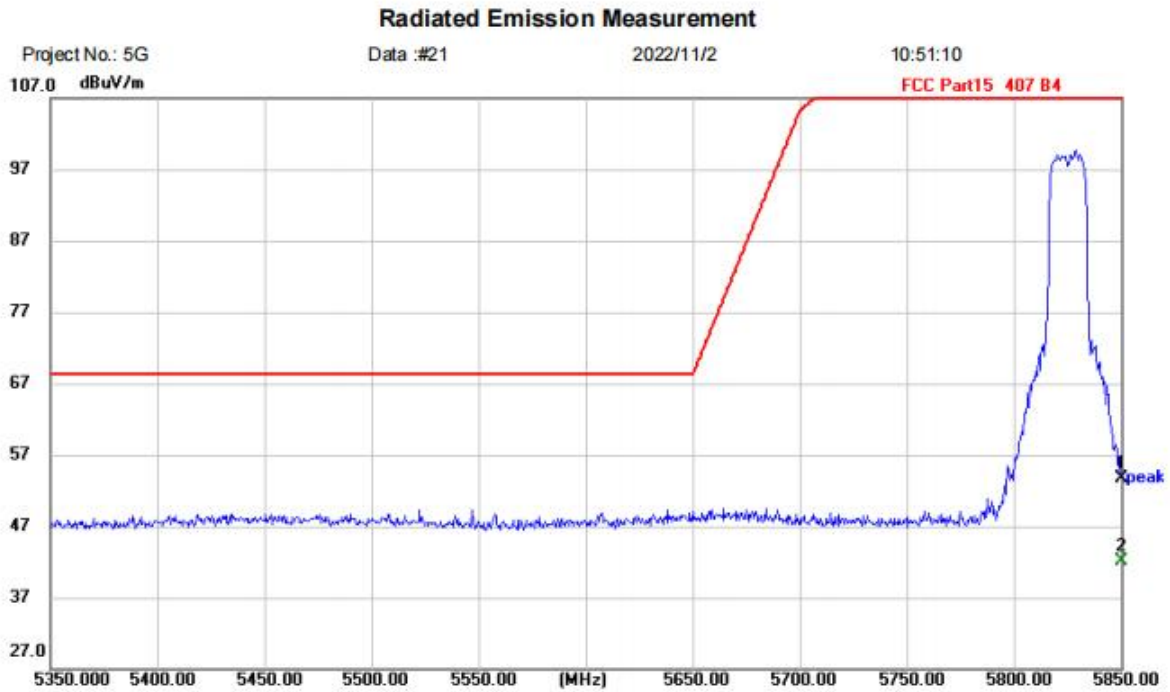


Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 407 B4	Power:	Humidity: %RH
EUT: 4K AndroidTV Set Top Box		
M/N: DV8935		
Mode: 5G Band4 A TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5850.000	51.52	4.69	56.21	122.20	-65.99	peak	
2	*	5850.000	37.92	4.69	42.61	54.00	-11.39	AVG	

Test Result: Pass

[TestMode: TX band4 a 5825 channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 407 B4 Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band4 A TX-H
 Note:

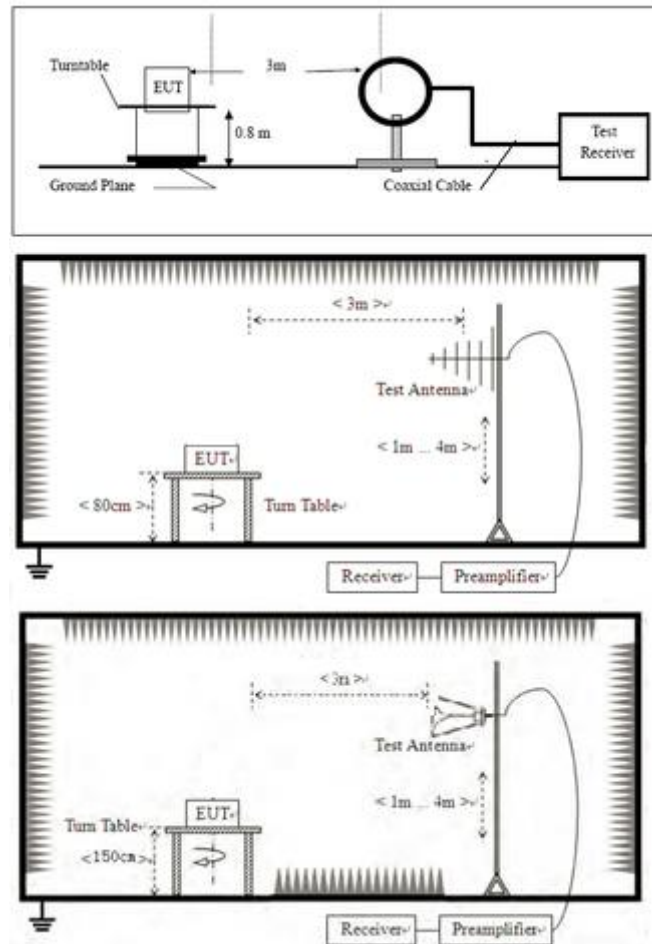
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5850.000	48.94	4.69	53.63	122.20	-68.57	peak	
2	*	5850.000	37.42	4.69	42.11	54.00	-11.89	AVG	

Test Result: Pass

12 Radiated Emissions

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

12.1 BLOCK DIAGRAM OF TEST SETUP



12.2 PROCEDURE

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

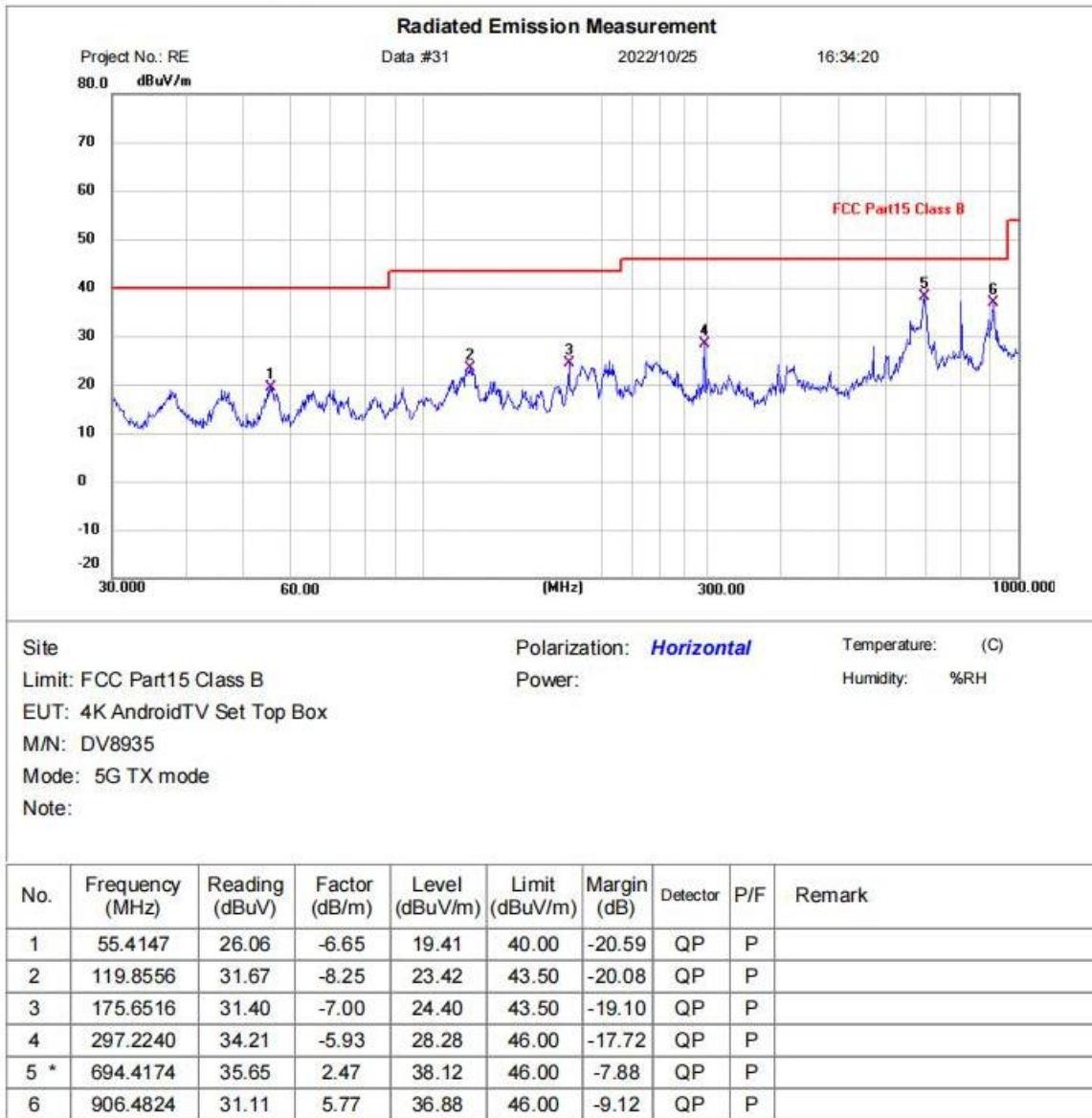
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

12.3 TEST Data

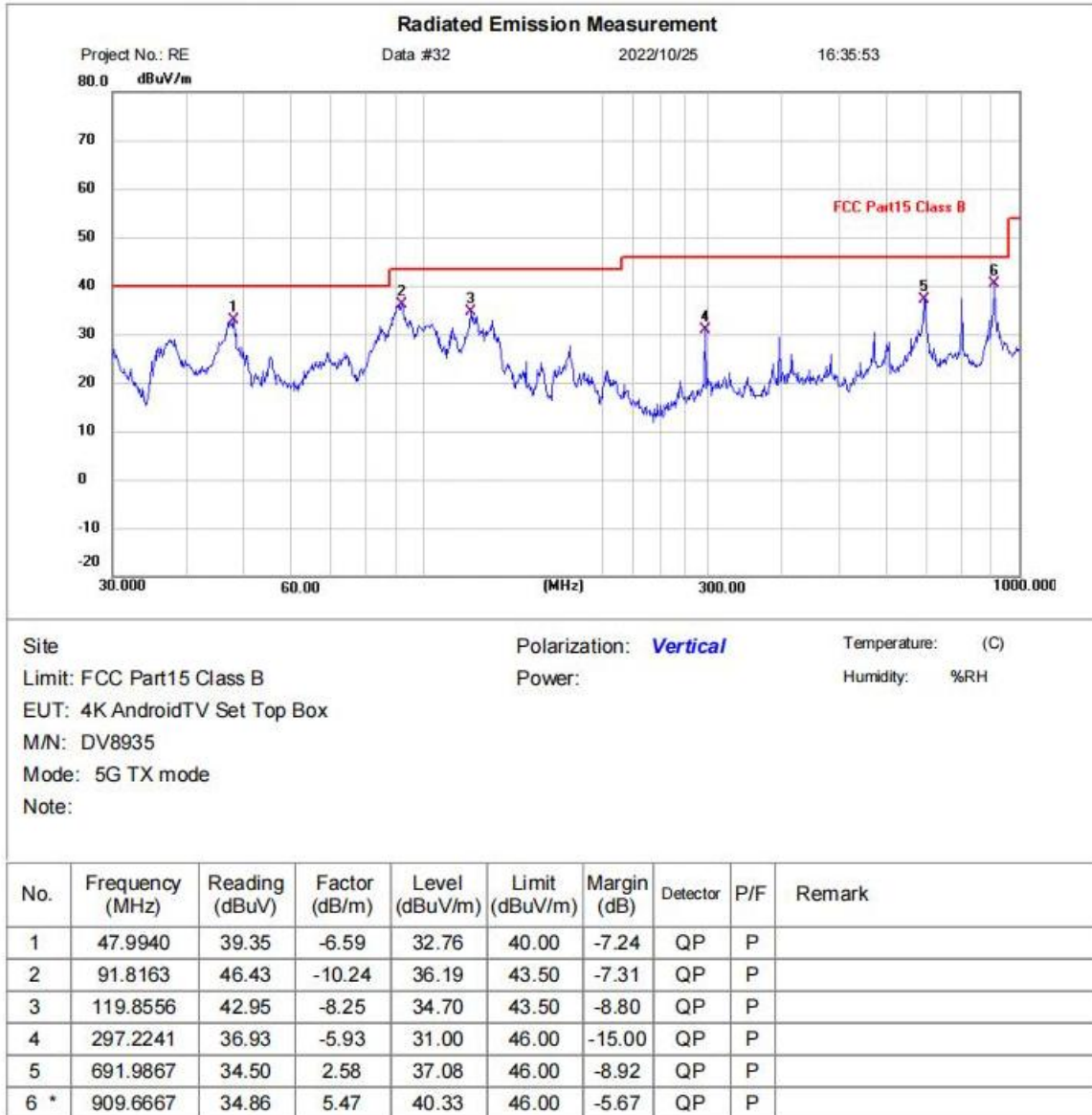
[TestMode: TX band1 below 1G]; [Polarity: Horizontal]



*:Maximum data x:Over limit !:over margin

Test Result: Pass

[TestMode: TX band1 below 1G]; [Polarity: Vertical]

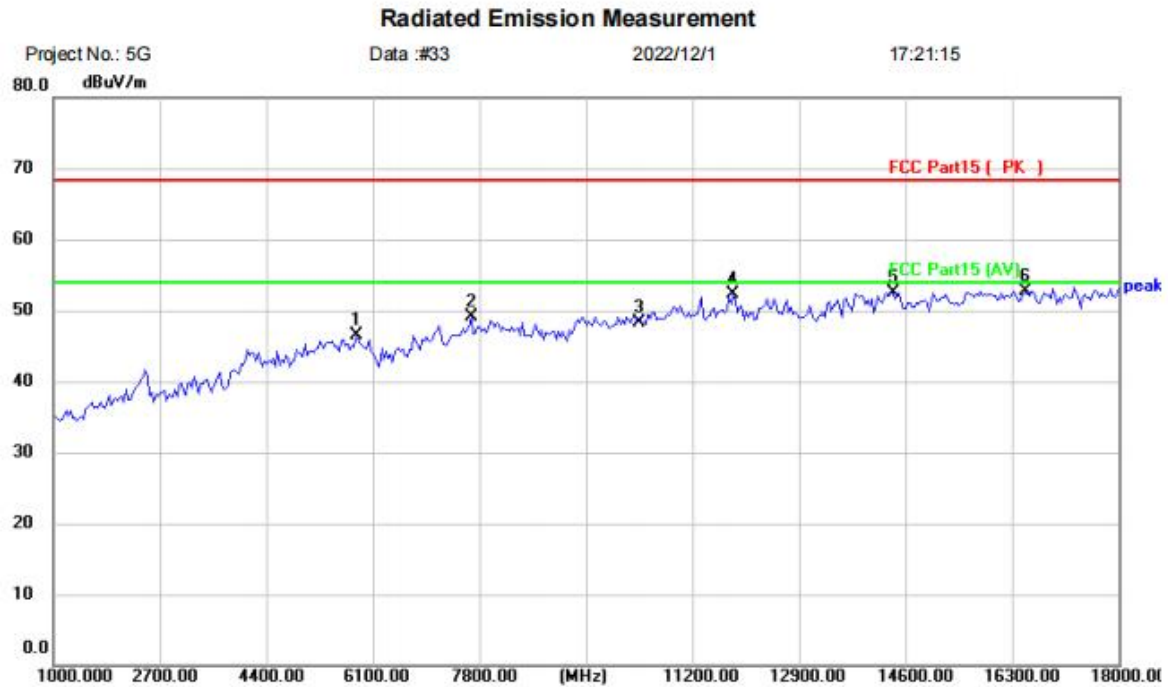


*:Maximum data x:Over limit !:over margin

Test Result: Pass

Remark: During the test, pre-scan the 802.11a/n/ac mode, and found the 802.11a mode which it is worse case.

[TestMode: TX a 5180 channel]; [Polarity: Horizontal]

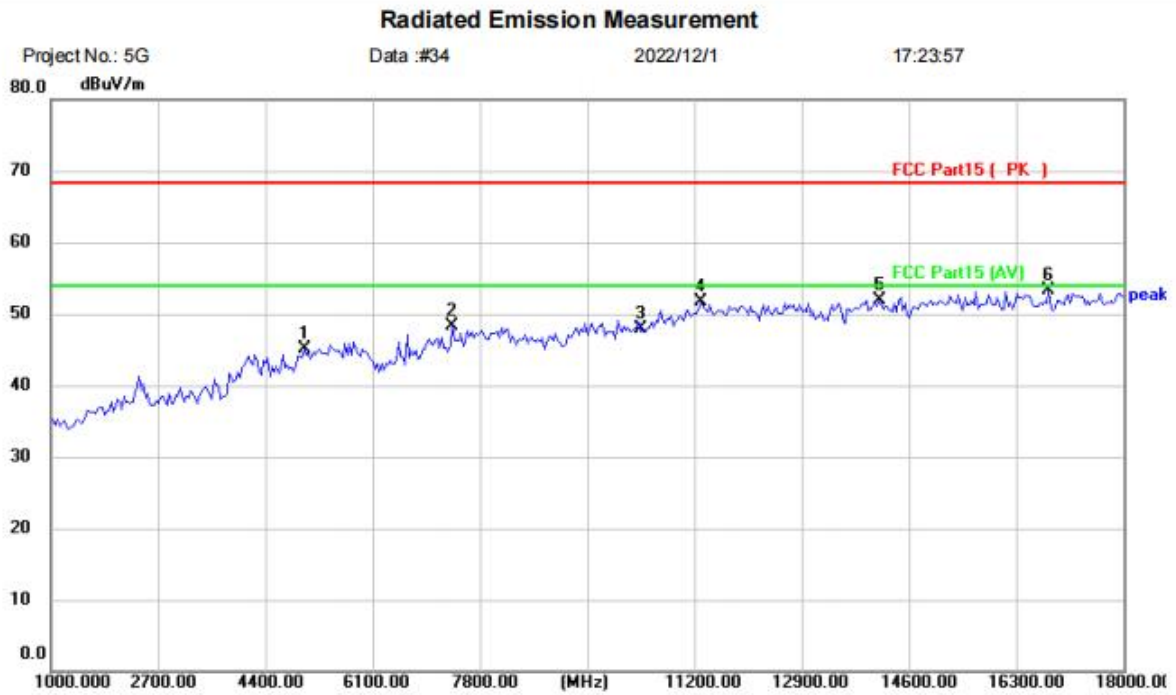


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band1 A TX-5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		5828.000	39.65	6.78	46.43	68.20	-21.77	peak	
2		7664.000	40.40	8.71	49.11	68.20	-19.09	peak	
3		10360.000	35.82	12.46	48.28	68.20	-19.92	peak	
4		11846.000	38.40	13.83	52.23	68.20	-15.97	peak	
5		14396.000	36.51	16.04	52.55	68.20	-15.65	peak	
6	*	16504.000	37.90	14.86	52.76	68.20	-15.44	peak	

Test Result: Pass

[TestMode: TX a 5180 channel]; [Polarity: Vertical]

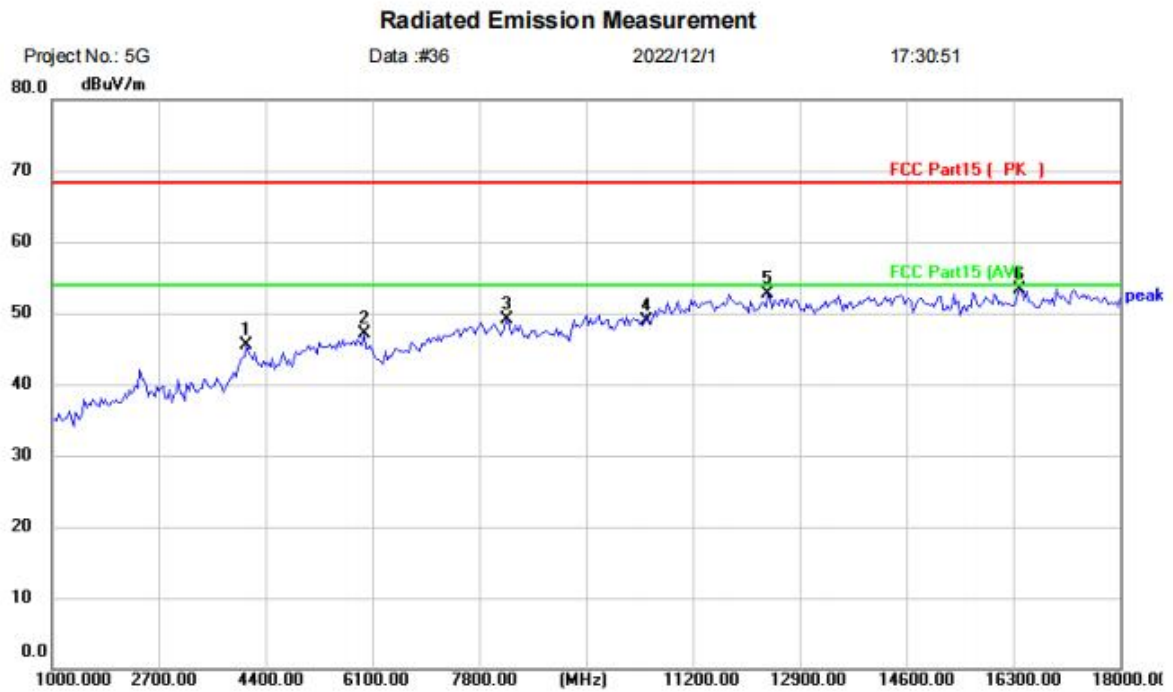


Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band1 A TX-5180
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5012.000	39.13	6.04	45.17	68.20	-23.03	peak	
2		7358.000	39.93	8.30	48.23	68.20	-19.97	peak	
3		10360.000	35.40	12.46	47.86	68.20	-20.34	peak	
4		11302.000	38.19	13.59	51.78	68.20	-16.42	peak	
5		14124.000	36.35	15.61	51.96	68.20	-16.24	peak	
6	*	16810.000	38.20	15.13	53.33	68.20	-14.87	peak	

Test Result: Pass

[TestMode: TX a 5240 channel]; [Polarity: Vertical]

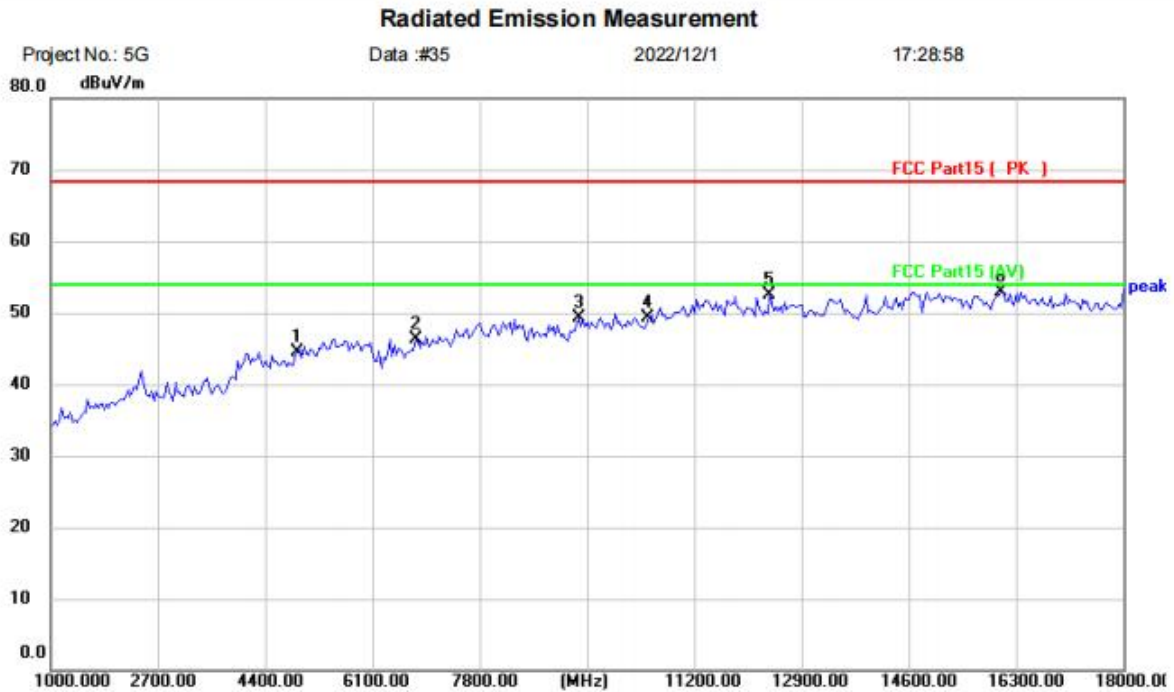


Site Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band1 A TX-5240
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4094.000	42.80	2.66	45.46	68.20	-22.74	peak	
2		5964.000	40.20	6.97	47.17	68.20	-21.03	peak	
3		8242.000	40.17	9.00	49.17	68.20	-19.03	peak	
4		10480.000	36.30	12.65	48.95	68.20	-19.25	peak	
5		12390.000	38.82	13.88	52.70	68.20	-15.50	peak	
6	*	16402.000	38.76	14.50	53.26	68.20	-14.94	peak	

Test Result: Pass

[TestMode: TX a 5240 channel]; [Polarity: Horizontal]

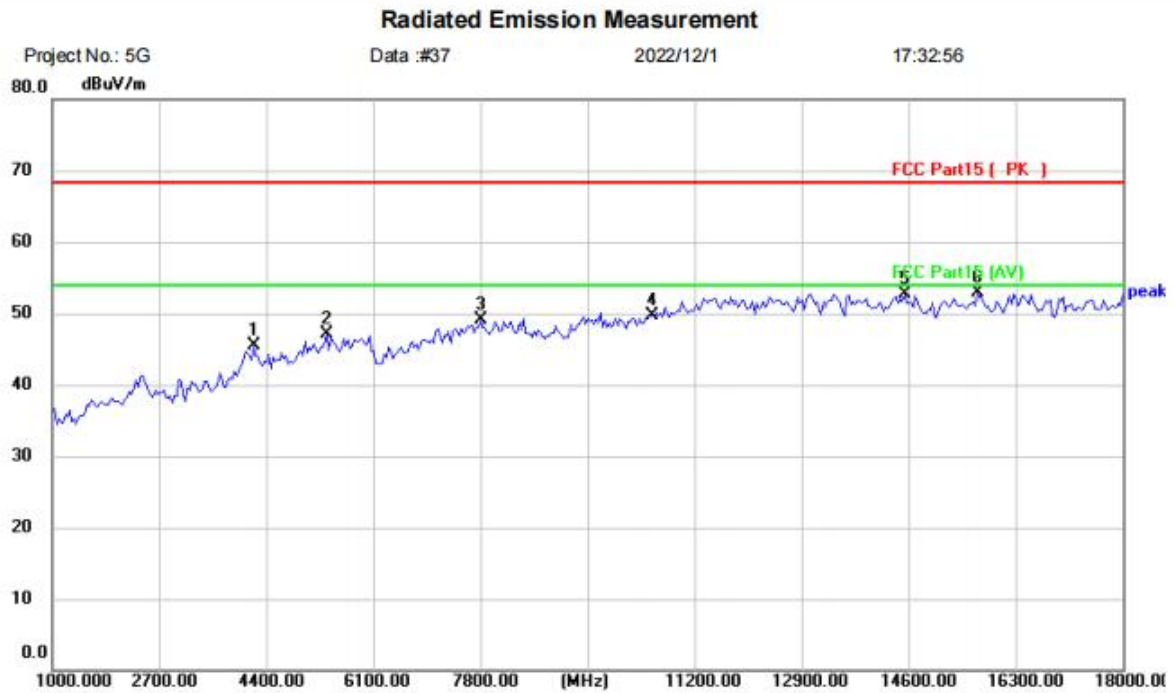


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band1 A TX-5240
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4910.000	40.00	4.59	44.59	68.20	-23.61	peak	
2		6780.000	39.59	6.80	46.39	68.20	-21.81	peak	
3		9364.000	39.07	10.28	49.35	68.20	-18.85	peak	
4		10480.000	36.62	12.65	49.27	68.20	-18.93	peak	
5		12390.000	38.70	13.88	52.58	68.20	-15.62	peak	
6	*	16062.000	37.84	15.09	52.93	68.20	-15.27	peak	

Test Result: Pass

[TestMode: TX a 5260 channel]; [Polarity: Horizontal]

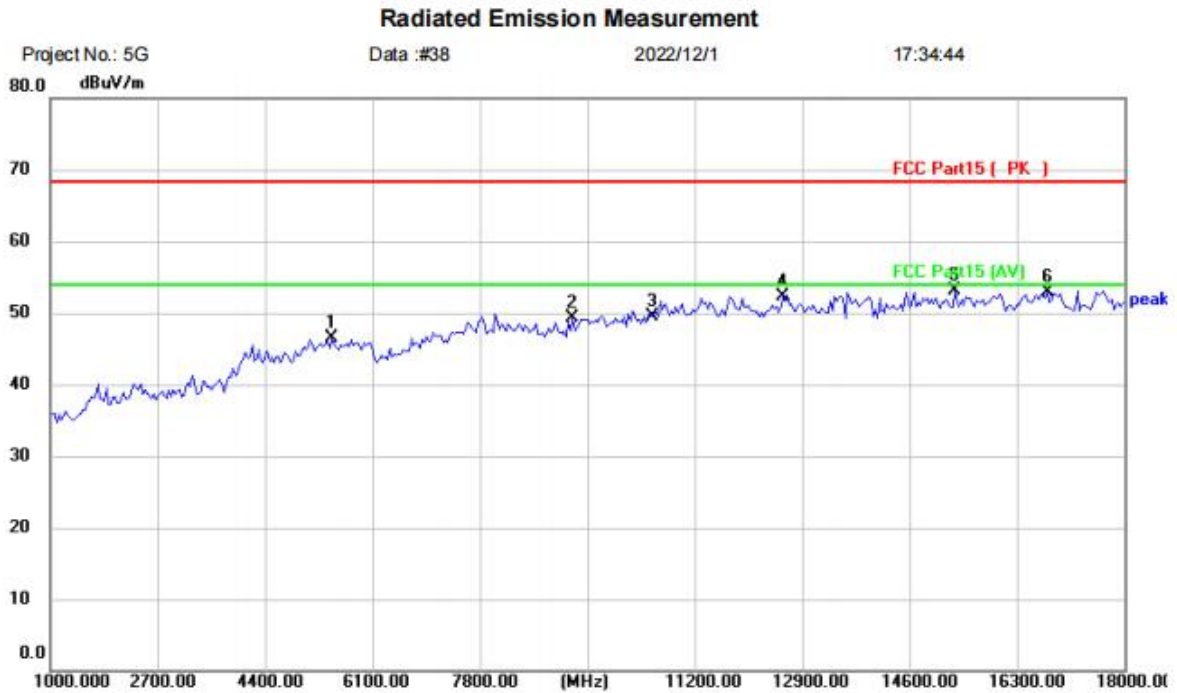


Site Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-5260
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4196.000	40.39	5.15	45.54	68.20	-22.66	peak	
2		5352.000	40.51	6.50	47.01	68.20	-21.19	peak	
3		7800.000	40.32	8.79	49.11	68.20	-19.09	peak	
4		10520.000	36.98	12.70	49.68	68.20	-18.52	peak	
5		14532.000	36.65	16.09	52.74	68.20	-15.46	peak	
6	*	15688.000	37.17	15.66	52.83	68.20	-15.37	peak	

Test Result: Pass

[TestMode: TX a 5260 channel]; [Polarity: Vertical]

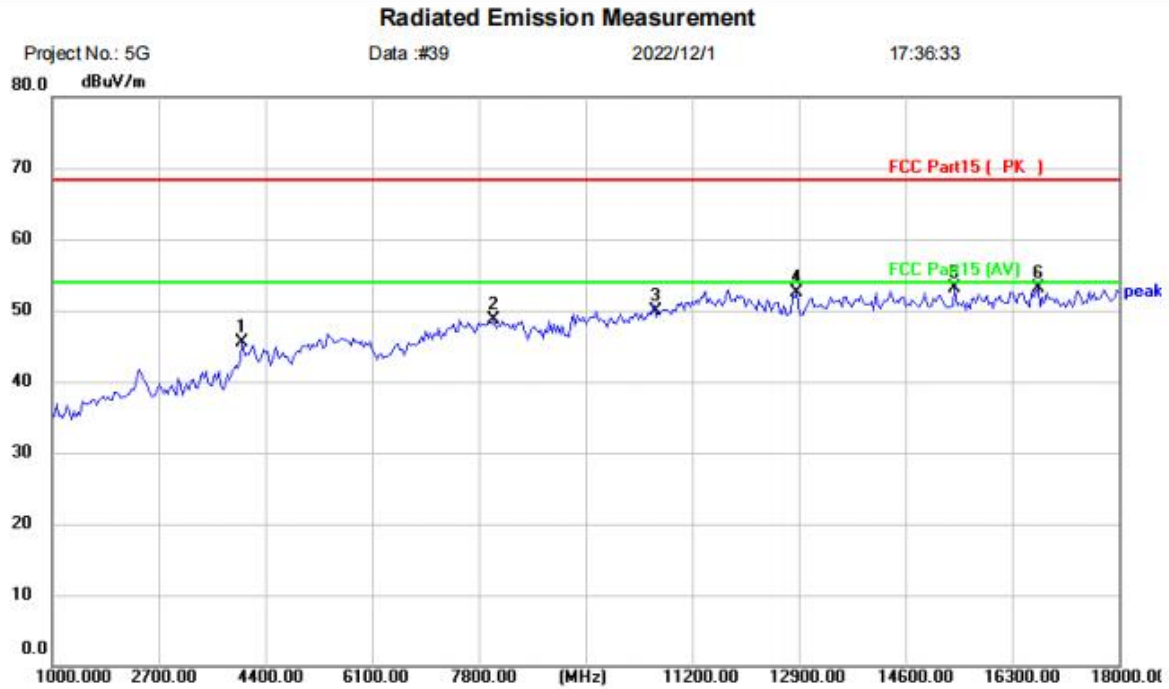


Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-5260
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5454.000	39.71	6.85	46.56	68.20	-21.64	peak	
2	9262.000	39.25	10.01	49.26	68.20	-18.94	peak	
3	10520.000	36.73	12.70	49.43	68.20	-18.77	peak	
4	12594.000	38.48	13.87	52.35	68.20	-15.85	peak	
5 *	15314.000	37.03	15.98	53.01	68.20	-15.19	peak	
6	16776.000	37.67	15.15	52.82	68.20	-15.38	peak	

Test Result: Pass

[TestMode: TX a 5320 channel]; [Polarity: Horizontal]

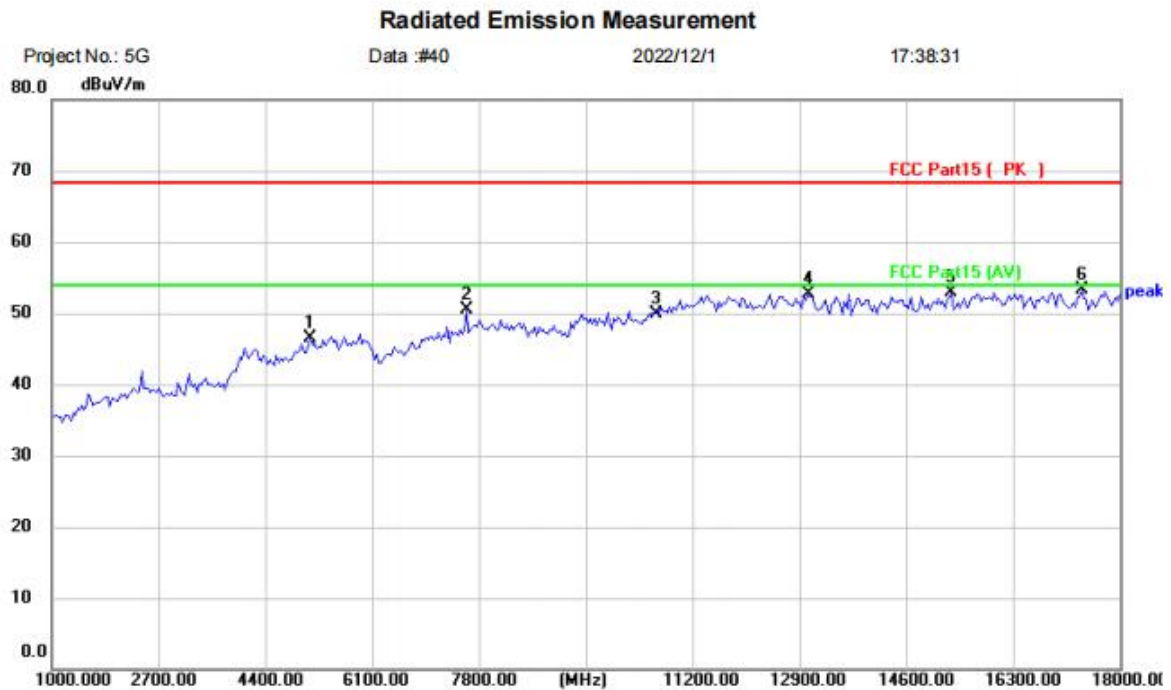


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-5320
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4026.000	43.39	2.21	45.60	68.20	-22.60	peak	
2		8038.000	39.89	8.91	48.80	68.20	-19.40	peak	
3		10640.000	37.03	12.89	49.92	68.20	-18.28	peak	
4		12866.000	38.70	13.86	52.56	68.20	-15.64	peak	
5	*	15382.000	37.14	15.92	53.06	68.20	-15.14	peak	
6		16708.000	37.86	15.17	53.03	68.20	-15.17	peak	

Test Result: Pass

[TestMode: TX a 5320 channel]; [Polarity: Vertical]

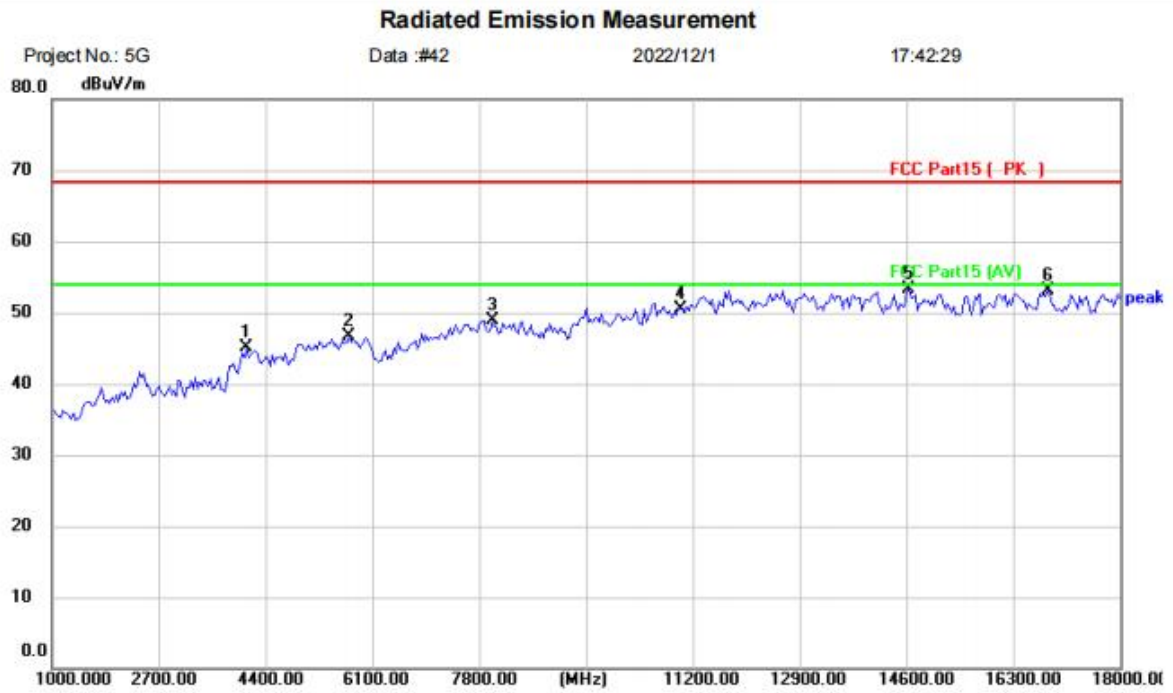


Site Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band2 A TX-5320
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5114.000	40.66	5.83	46.49	68.20	-21.71	peak	
2		7596.000	41.76	8.68	50.44	68.20	-17.76	peak	
3		10640.000	37.10	12.89	49.99	68.20	-18.21	peak	
4		13036.000	38.71	13.92	52.63	68.20	-15.57	peak	
5		15314.000	36.94	15.98	52.92	68.20	-15.28	peak	
6	*	17388.000	36.22	17.03	53.25	68.20	-14.95	peak	

Test Result: Pass

[TestMode: TX a 5500 channel]; [Polarity: Vertical]

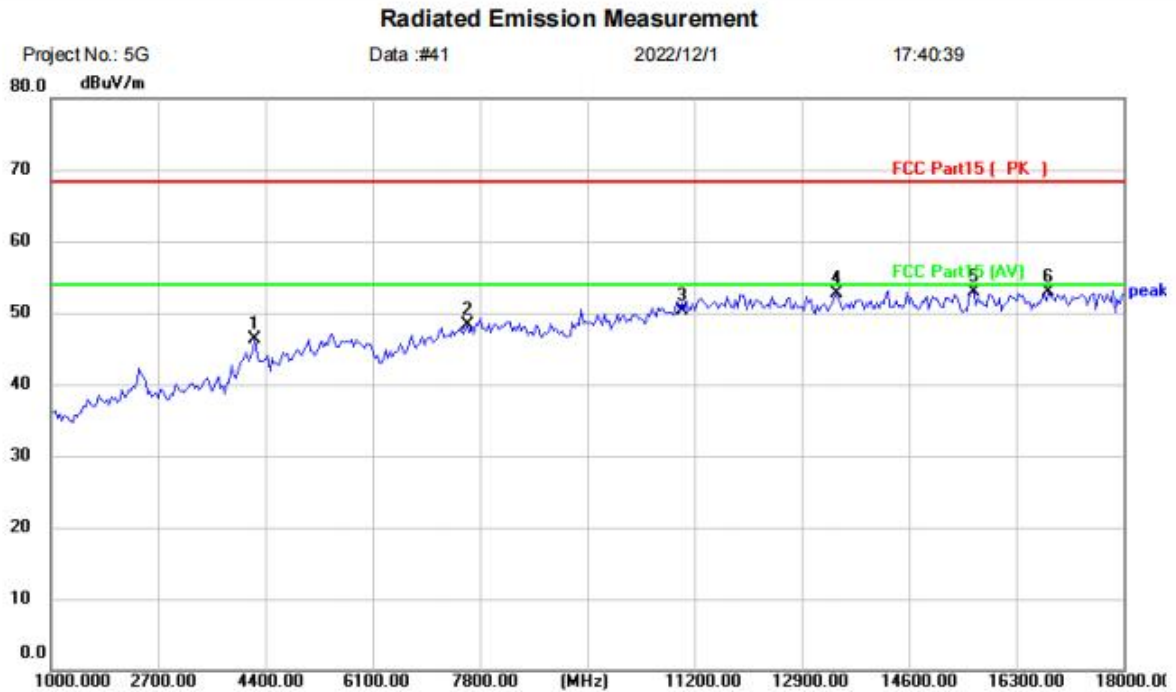


Site Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band3 A TX-5500
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4094.000	42.45	2.66	45.11	68.20	-23.09	peak	
2		5726.000	39.99	6.80	46.79	68.20	-21.41	peak	
3		8004.000	40.08	8.90	48.98	68.20	-19.22	peak	
4		11000.000	37.03	13.45	50.48	68.20	-17.72	peak	
5	*	14634.000	37.15	16.12	53.27	68.20	-14.93	peak	
6		16844.000	37.93	15.12	53.05	68.20	-15.15	peak	

Test Result: Pass

[TestMode: TX a 5500 channel]; [Polarity: Horizontal]

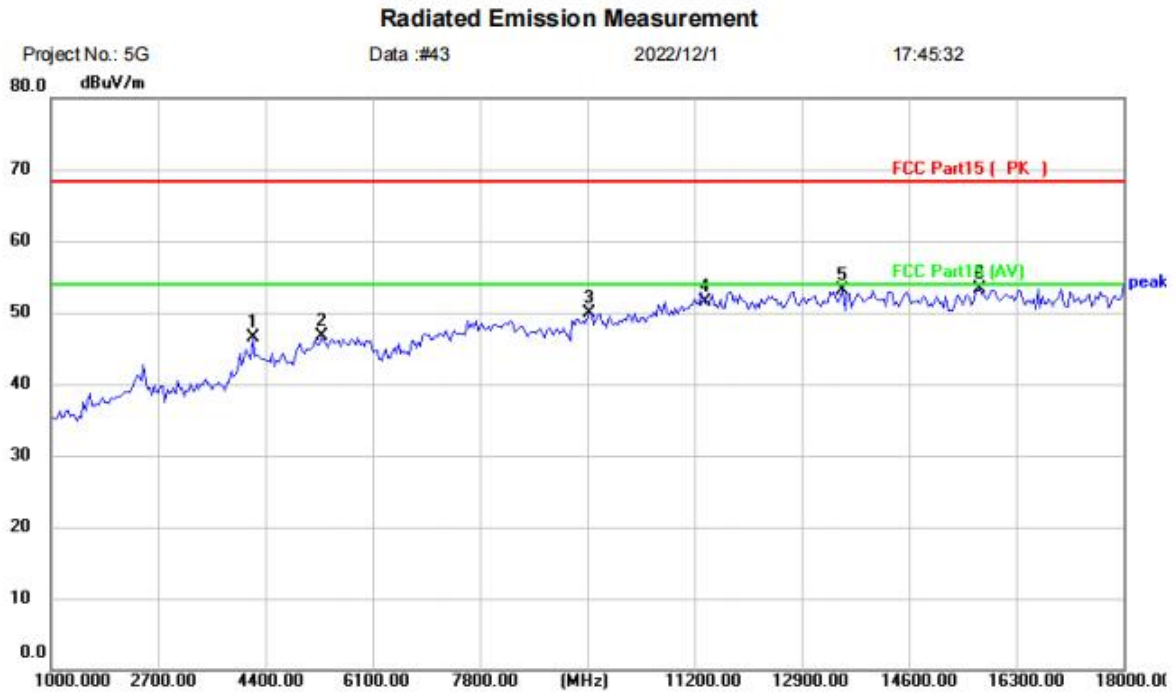


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band3 A TX-5500
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4230.000	41.80	4.55	46.35	68.20	-21.85	peak	
2		7596.000	39.59	8.68	48.27	68.20	-19.93	peak	
3		11000.000	36.90	13.45	50.35	68.20	-17.85	peak	
4		13444.000	33.78	18.90	52.68	68.20	-15.52	peak	
5	*	15620.000	37.19	15.73	52.92	68.20	-15.28	peak	
6		16810.000	37.77	15.13	52.90	68.20	-15.30	peak	

Test Result: Pass

[TestMode: TX a 5700 channel]; [Polarity: Horizontal]

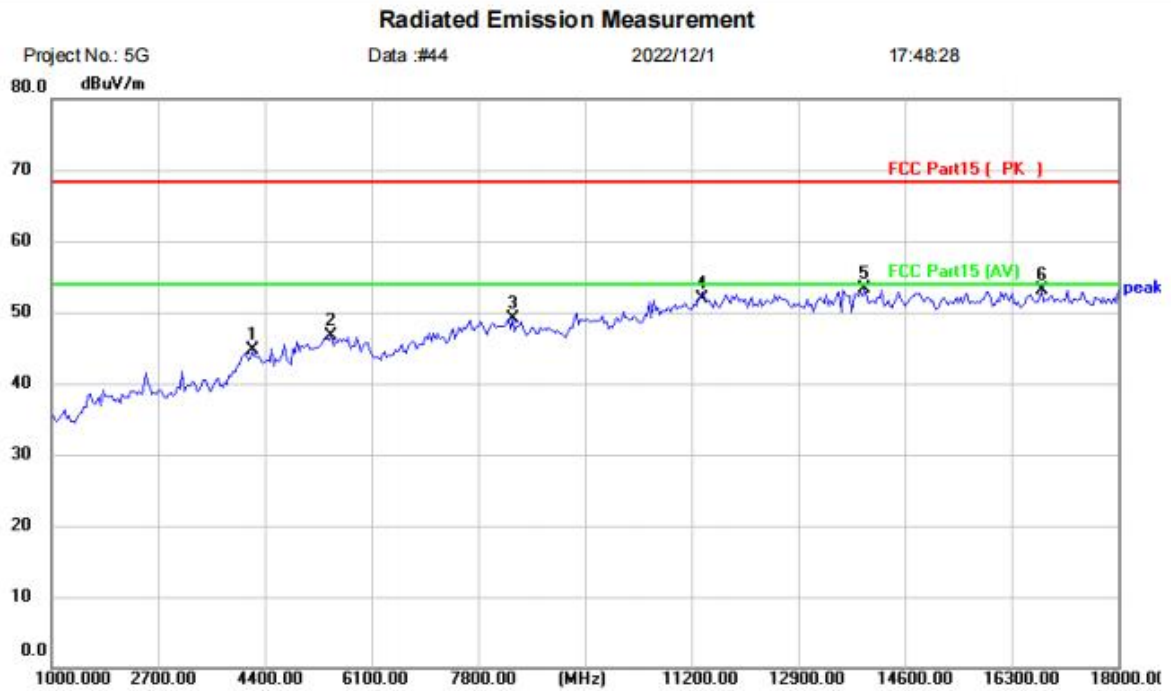


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band3 A TX-5700
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4196.000	41.37	5.15	46.52	68.20	-21.68	peak	
2		5284.000	40.44	6.22	46.66	68.20	-21.54	peak	
3		9534.000	39.13	10.72	49.85	68.20	-18.35	peak	
4		11400.000	37.79	13.63	51.42	68.20	-16.78	peak	
5		13546.000	34.91	18.18	53.09	68.20	-15.11	peak	
6	*	15722.000	37.70	15.64	53.34	68.20	-14.86	peak	

Test Result: Pass

[TestMode: TX a 5700 channel]; [Polarity: Vertical]

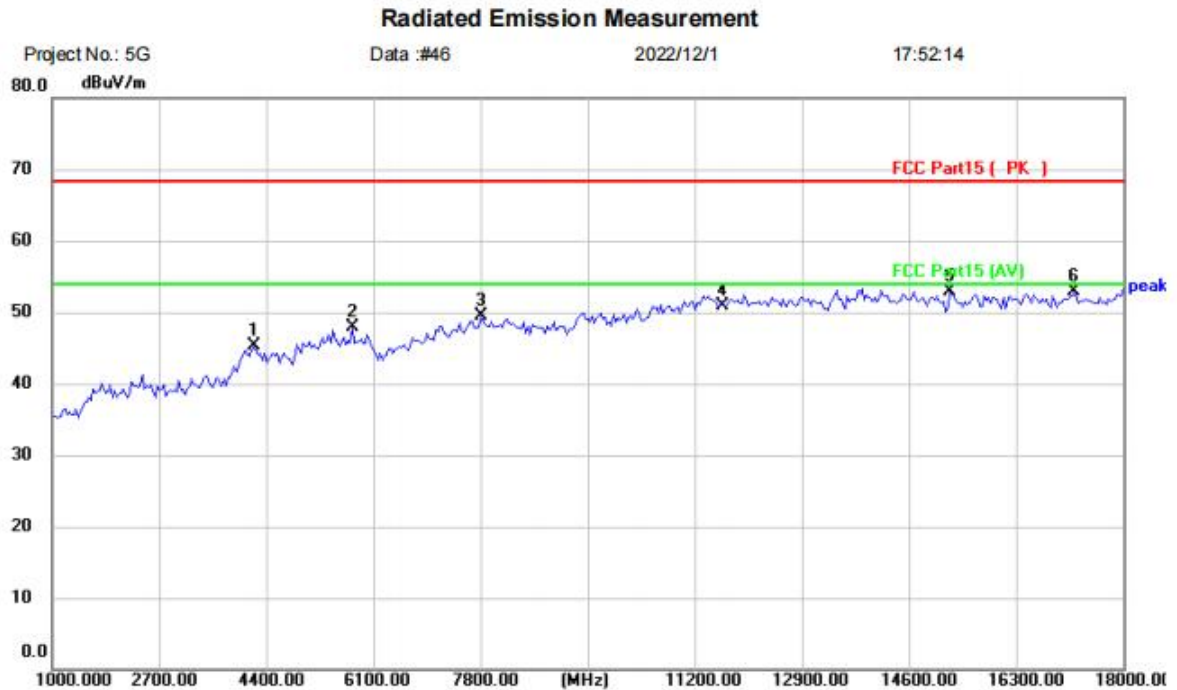


Site Polarization: *Vertical* Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band3 A TX-5700
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4196.000	39.58	5.15	44.73	68.20	-23.47	peak	
2		5454.000	39.86	6.85	46.71	68.20	-21.49	peak	
3		8344.000	40.02	9.05	49.07	68.20	-19.13	peak	
4		11400.000	38.30	13.63	51.93	68.20	-16.27	peak	
5	*	13954.000	38.13	15.17	53.30	68.20	-14.90	peak	
6		16776.000	37.93	15.15	53.08	68.20	-15.12	peak	

Test Result: Pass

[TestMode: TX a 5825 channel]; [Polarity: Vertical]

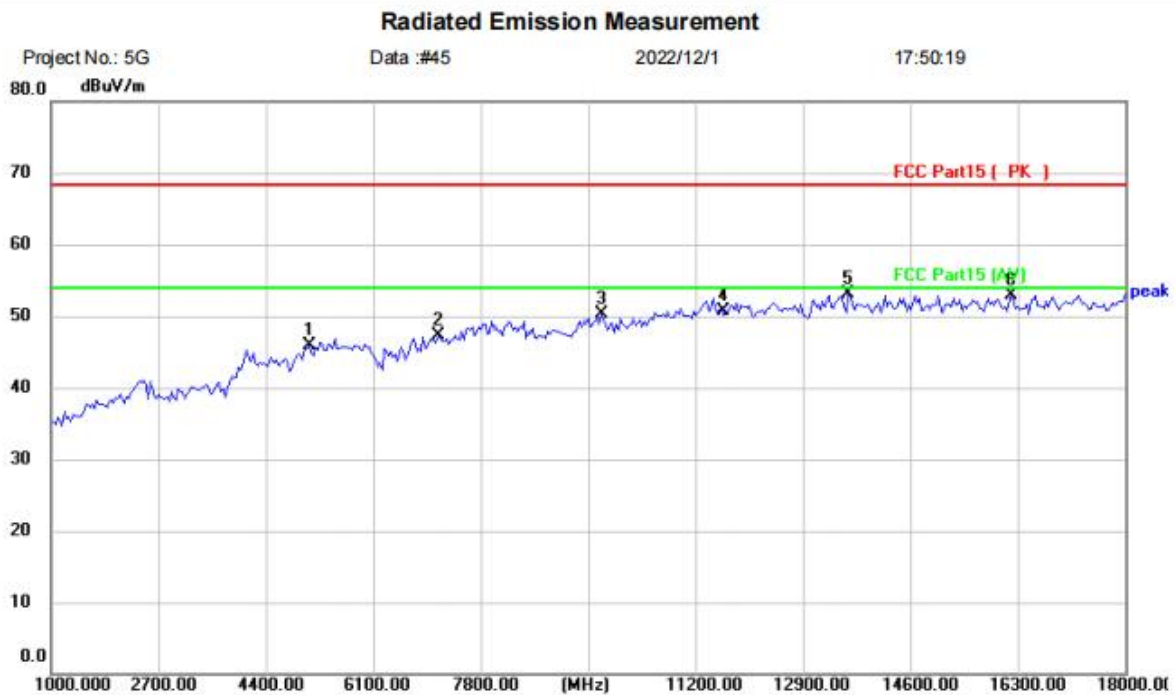


Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band4 A TX-5825
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4196.000	40.06	5.15	45.21	68.20	-22.99	peak	
2		5760.000	41.09	6.79	47.88	68.20	-20.32	peak	
3		7800.000	40.72	8.79	49.51	68.20	-18.69	peak	
4		11650.000	37.16	13.74	50.90	68.20	-17.30	peak	
5	*	15246.000	36.91	16.05	52.96	68.20	-15.24	peak	
6		17218.000	36.22	16.66	52.88	68.20	-15.32	peak	

Test Result: Pass

[TestMode: TX a 5825 channel]; [Polarity: Horizontal]

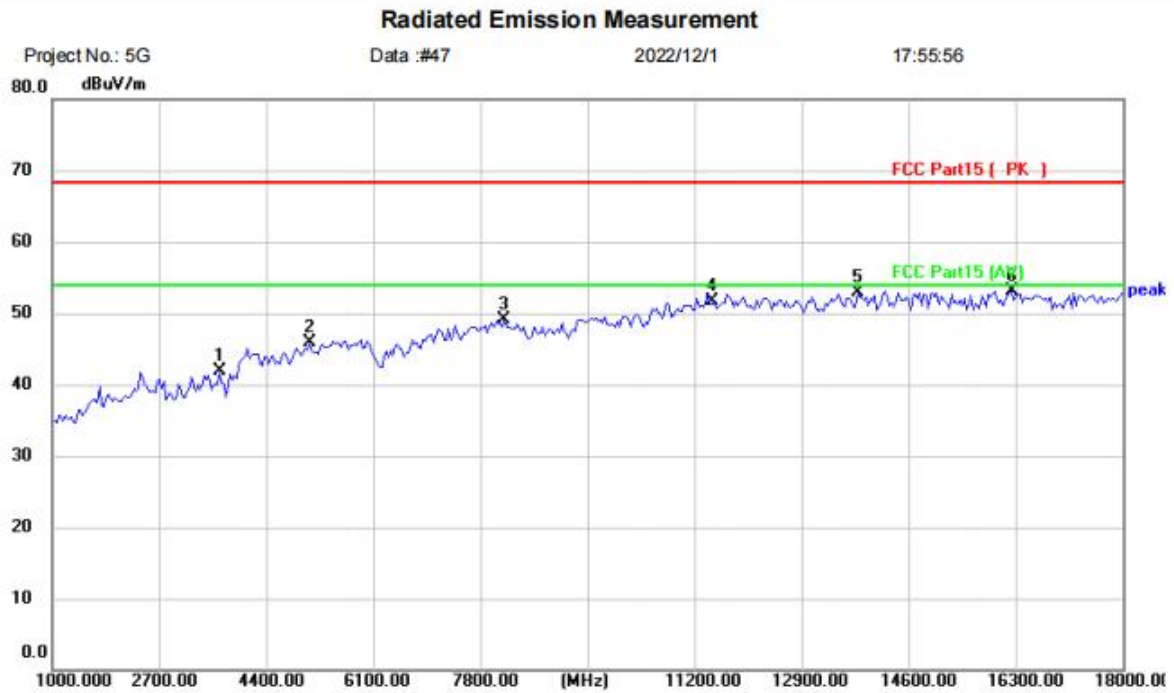


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band4 A TX-5825
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5080.000	39.94	5.90	45.84	68.20	-22.36	peak	
2		7120.000	39.61	7.73	47.34	68.20	-20.86	peak	
3		9704.000	39.21	11.15	50.36	68.20	-17.84	peak	
4		11650.000	36.93	13.74	50.67	68.20	-17.53	peak	
5	*	13614.000	36.78	16.30	53.08	68.20	-15.12	peak	
6		16198.000	38.46	14.40	52.86	68.20	-15.34	peak	

Test Result: Pass

[TestMode: TX a 5745 channel]; [Polarity: Horizontal]

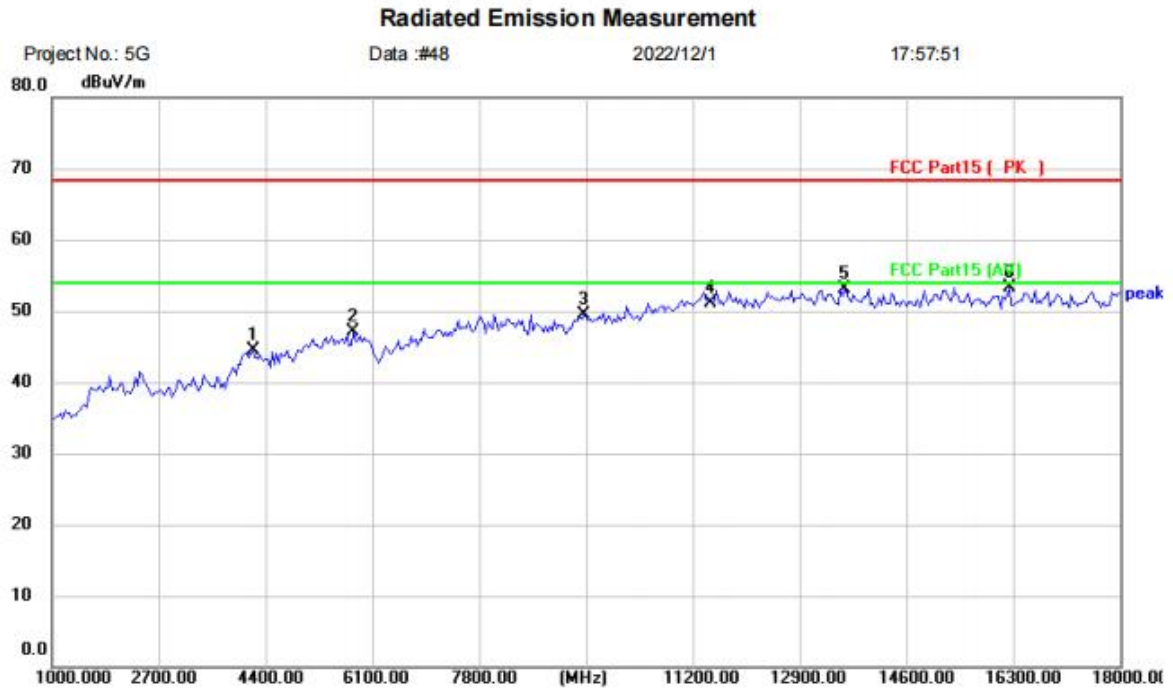


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band4 A TX-5745
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		3652.000	42.14	-0.32	41.82	68.20	-26.38	peak	
2		5080.000	39.97	5.90	45.87	68.20	-22.33	peak	
3		8174.000	40.21	8.98	49.19	68.20	-19.01	peak	
4		11490.000	38.05	13.67	51.72	68.20	-16.48	peak	
5		13784.000	37.19	15.73	52.92	68.20	-15.28	peak	
6	*	16232.000	38.74	14.41	53.15	68.20	-15.05	peak	

Test Result: Pass

[TestMode: TX a 5745 channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: 4K AndroidTV Set Top Box
 M/N: DV8935
 Mode: 5G Band4 A TX-5745
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4196.000	39.32	5.15	44.47	68.20	-23.73	peak	
2		5794.000	40.35	6.77	47.12	68.20	-21.08	peak	
3		9466.000	38.95	10.53	49.48	68.20	-18.72	peak	
4		11490.000	37.34	13.67	51.01	68.20	-17.19	peak	
5		13614.000	36.79	16.30	53.09	68.20	-15.11	peak	
6	*	16232.000	38.88	14.41	53.29	68.20	-14.91	peak	

Test Result: Pass

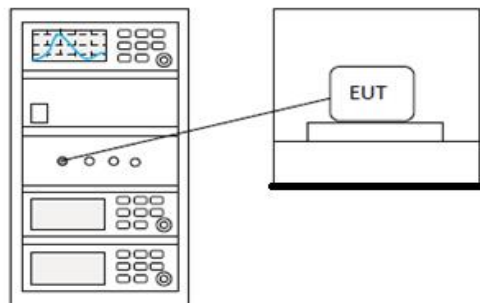
13 Power spectrum density

Test Standard	47 CFR Part 15, Subpart E 15.407(a)
Test Method	KDB 789033 D02 II F
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

13.1 LIMITS

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 TEST Data

Pass: Please Refer To Appendix: Appendix 1 For Details

14 Transmitter Power Control

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II E

14.1 Conclusion

Standard Requirement:

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Antenna1: 3.19dBi, Antenna2: 3.09dBi

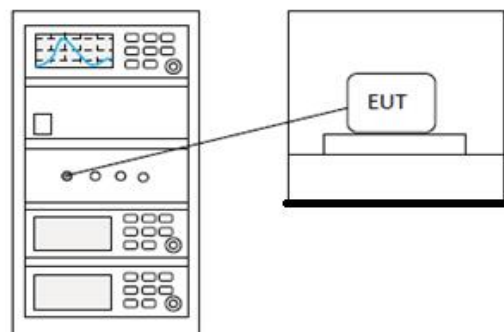
15 Maximum Conducted output power

Test Standard	47 CFR Part 15, Subpart E 15.407(a)
Test Method	KDB 789033 D02 II E
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

15.1 LIMITS

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 TEST Data

Pass: Please Refer To Appendix: Appendix 1 For Details

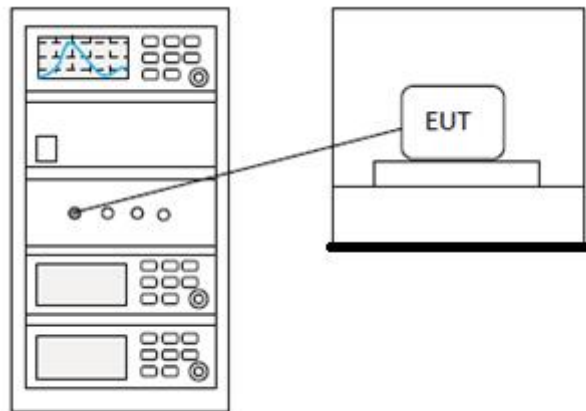
16 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Standard	47 CFR Part 15, Subpart E 15.407(e)
Test Method	KDB 789033 D02 II C 2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

16.1 LIMITS

Limit:	≥500 kHz
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16.2 BLOCK DIAGRAM OF TEST SETUP



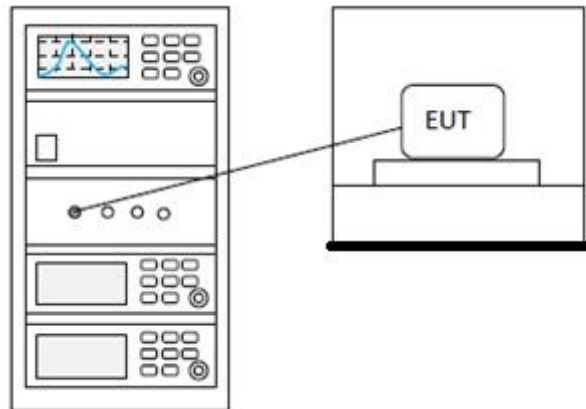
16.3 TEST Data

Pass: Please Refer To Appendix: Appendix 1 For Details

17 26dB Emission bandwidth

Test Standard	47 CFR Part 15, Subpart E 15.407(e)
Test Method	KDB 789033 D02 II C 1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

17.1 BLOCK DIAGRAM OF TEST SETUP



17.2 PROCEDURE

Set RBW = approximately 1% of the emission bandwidth.

Set VBW $\geq 3 \times$ RBW

Detector = Peak.

Trace mode = Max hold.

Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

17.3 TEST Data

Pass: Please Refer To Appendix: Appendix 1 For Details

18 Conducted Emissions at AC Power Line (150kHz-30MHz)

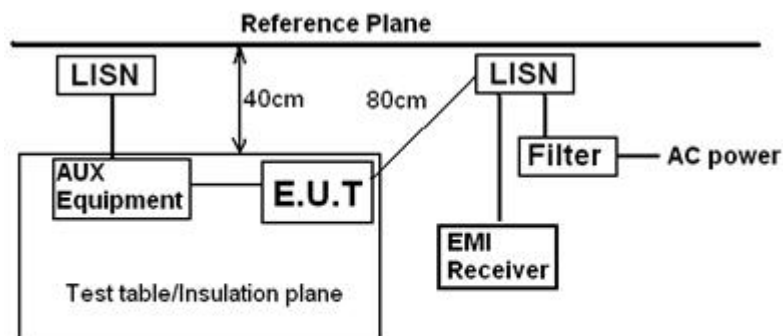
Test Standard	47 CFR Part 15, Subpart E 15.207
Test Method	ANSI C63.10-2013 Section 6.2
Test Mode (Pre-Scan)	Transmitting mode
Test Mode (Final Test)	Transmitting mode
Tester	Charlie
Temperature	25°C
Humidity	60%

18.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

18.2 BLOCK DIAGRAM OF TEST SETUP



Remark
 E.U.T: Equipment Under Test
 LISN: Line Impedance Stabilization Network
 Test table height=0.8m

18.3 PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power filter cables of all other units of the EUT

were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

