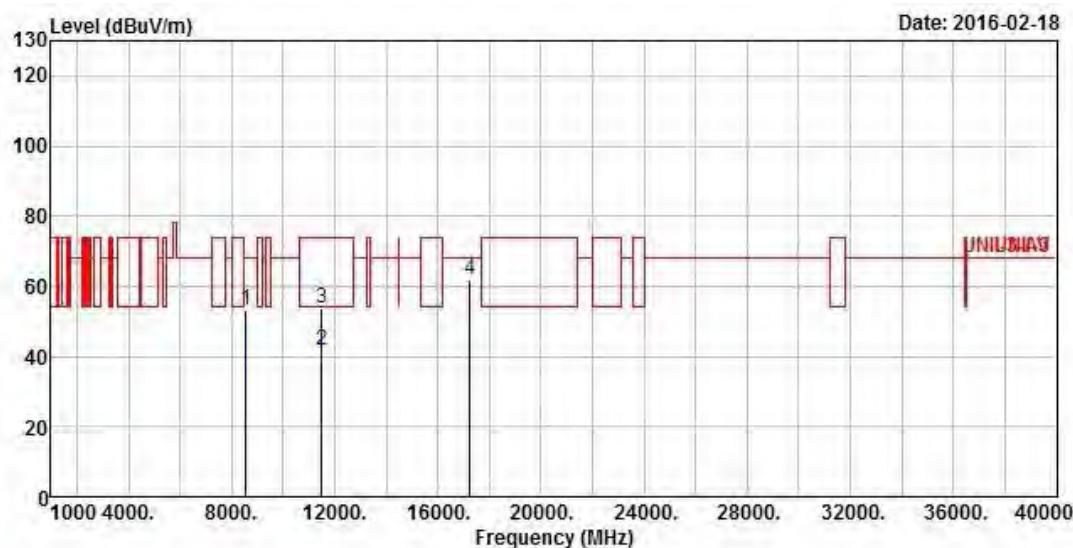




3.6.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5725-5850MHz

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a (Mode 1)	Test Freq. (MHz)	5745
N _{TX}	1	Polarization	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark
		Line	Limit	Antenna	Level	Factor	Loss	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	8571.000	53.06	-15.14	68.20	42.33	37.60	6.07	32.94 Peak
2	11490.000	41.49	-12.51	54.00	27.99	39.18	6.78	32.46 Average
3	11490.000	53.86	-20.14	74.00	40.36	39.18	6.78	32.46 Peak
4	17235.000	61.90	-6.30	68.20	43.19	41.72	8.53	31.54 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

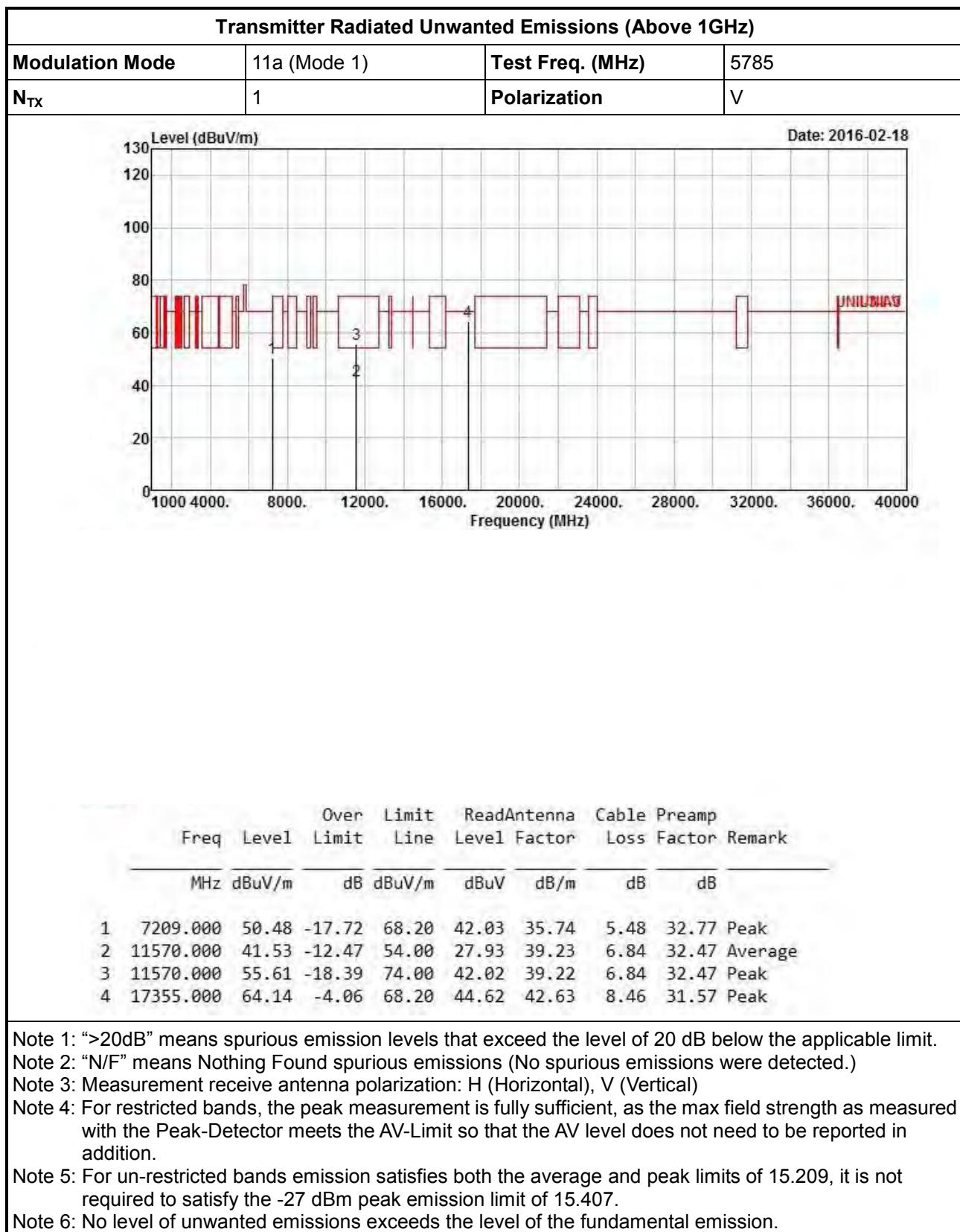
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

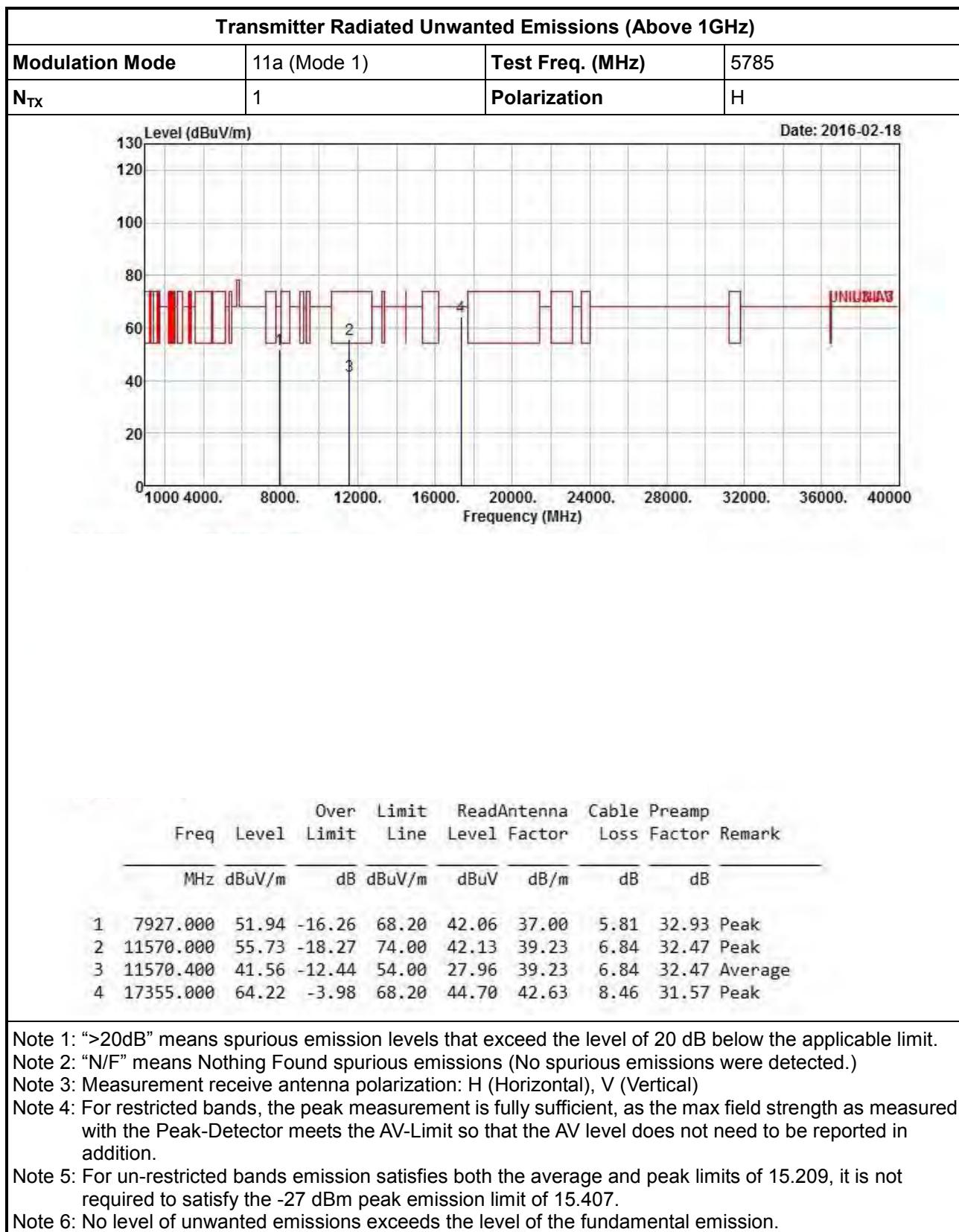


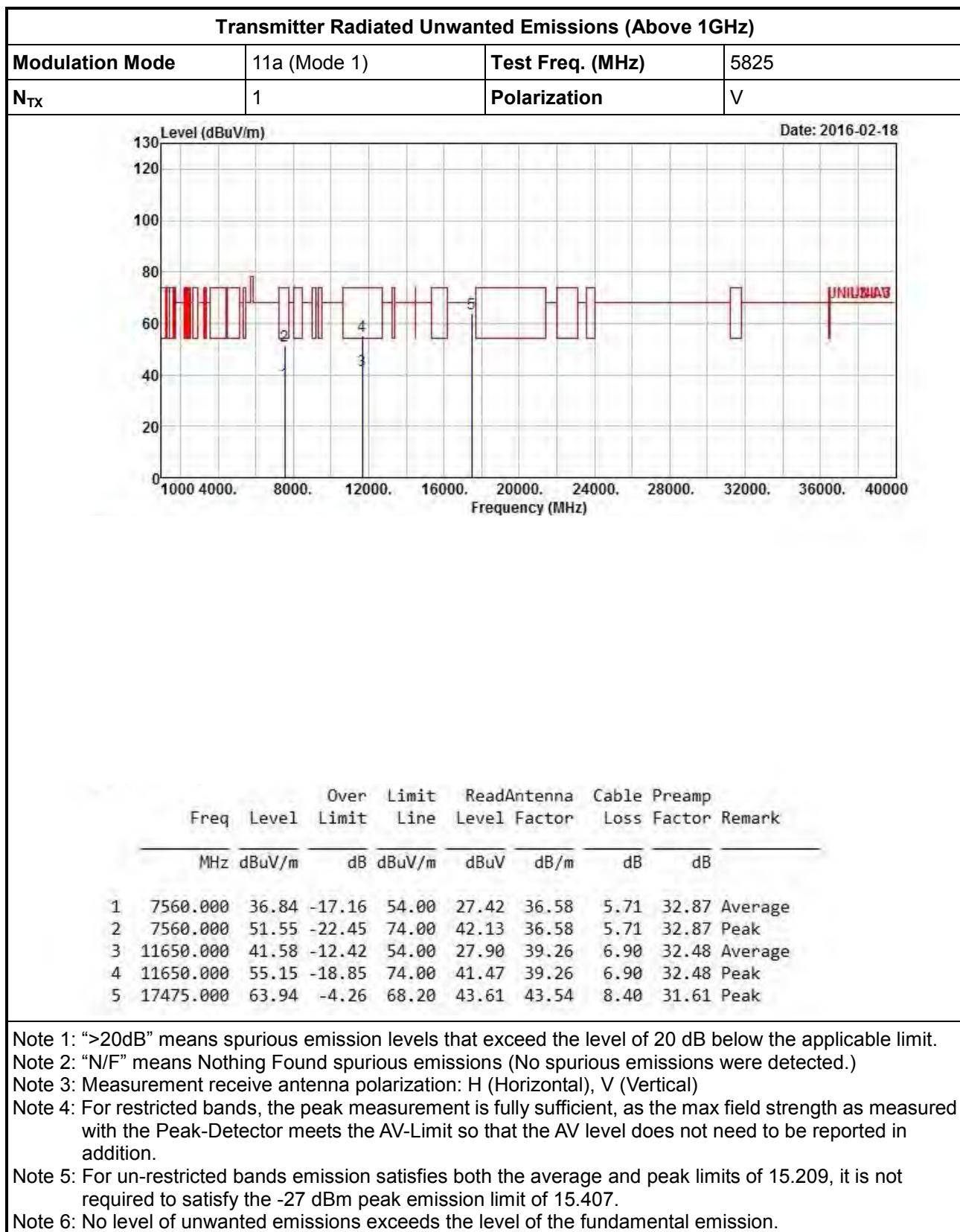
Transmitter Radiated Unwanted Emissions (Above 1GHz)

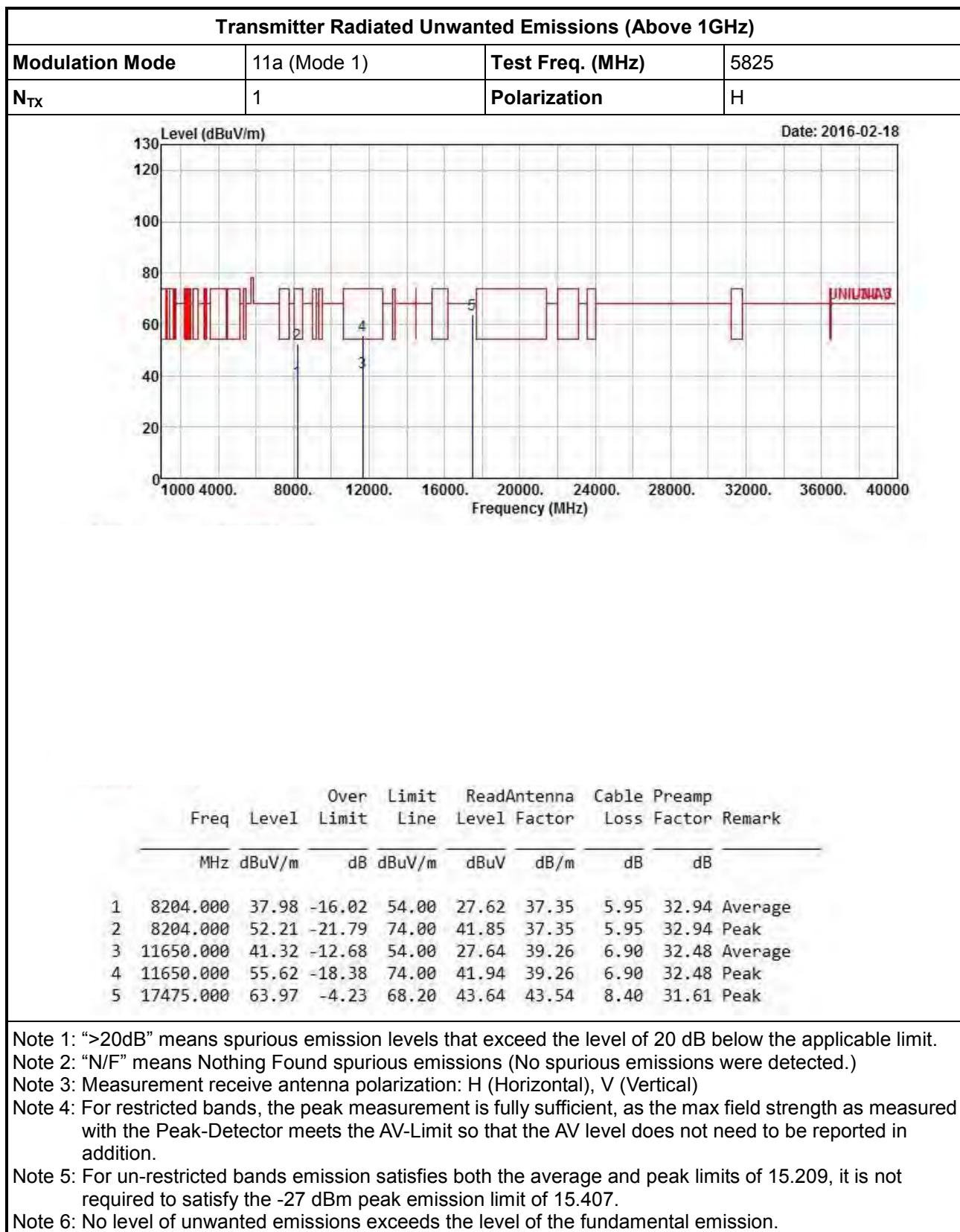
Modulation Mode	11a (Mode 1)	Test Freq. (MHz)	5745						
N _{TX}	1	Polarization	H						
Level (dB _{UV} /m)			Date: 2016-02-18						
Frequency (MHz)									
Over Limit	Line	Read Antenna Level	Cable Preamp						
Freq	Level	Limit	Antenna Factor	Loss Factor	Remark				
MHz	dB _{UV} /m	dB	dB _{UV} /m	dB/m	dB	dB			
1	8840.000	52.77	-15.43	68.20	41.96	37.77	6.09	33.05	Peak
2	11490.000	41.62	-12.38	54.00	28.12	39.18	6.78	32.46	Average
3	11490.000	54.02	-19.98	74.00	40.52	39.18	6.78	32.46	Peak
4	17235.000	61.65	-6.55	68.20	42.94	41.72	8.53	31.54	Peak

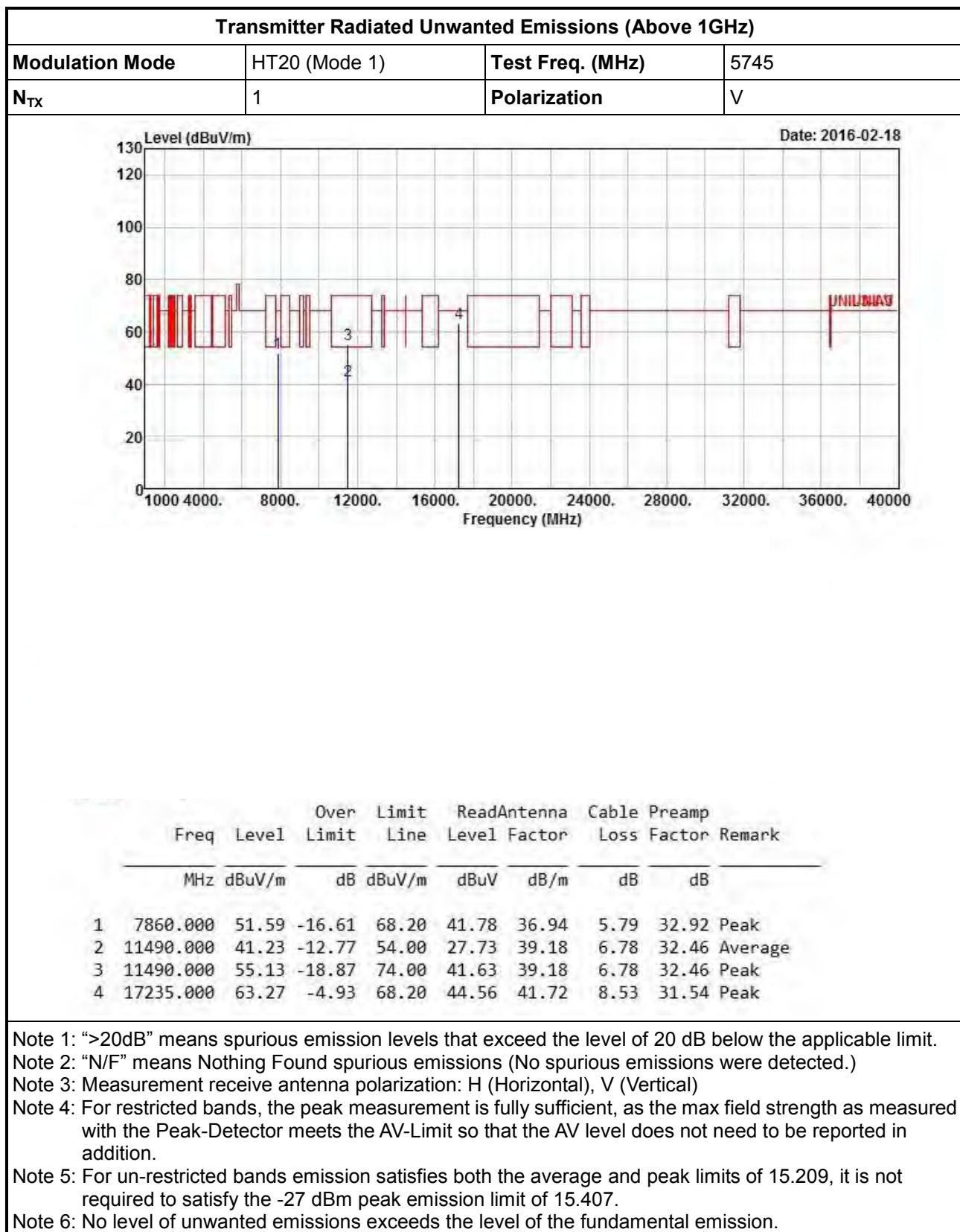
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
 Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

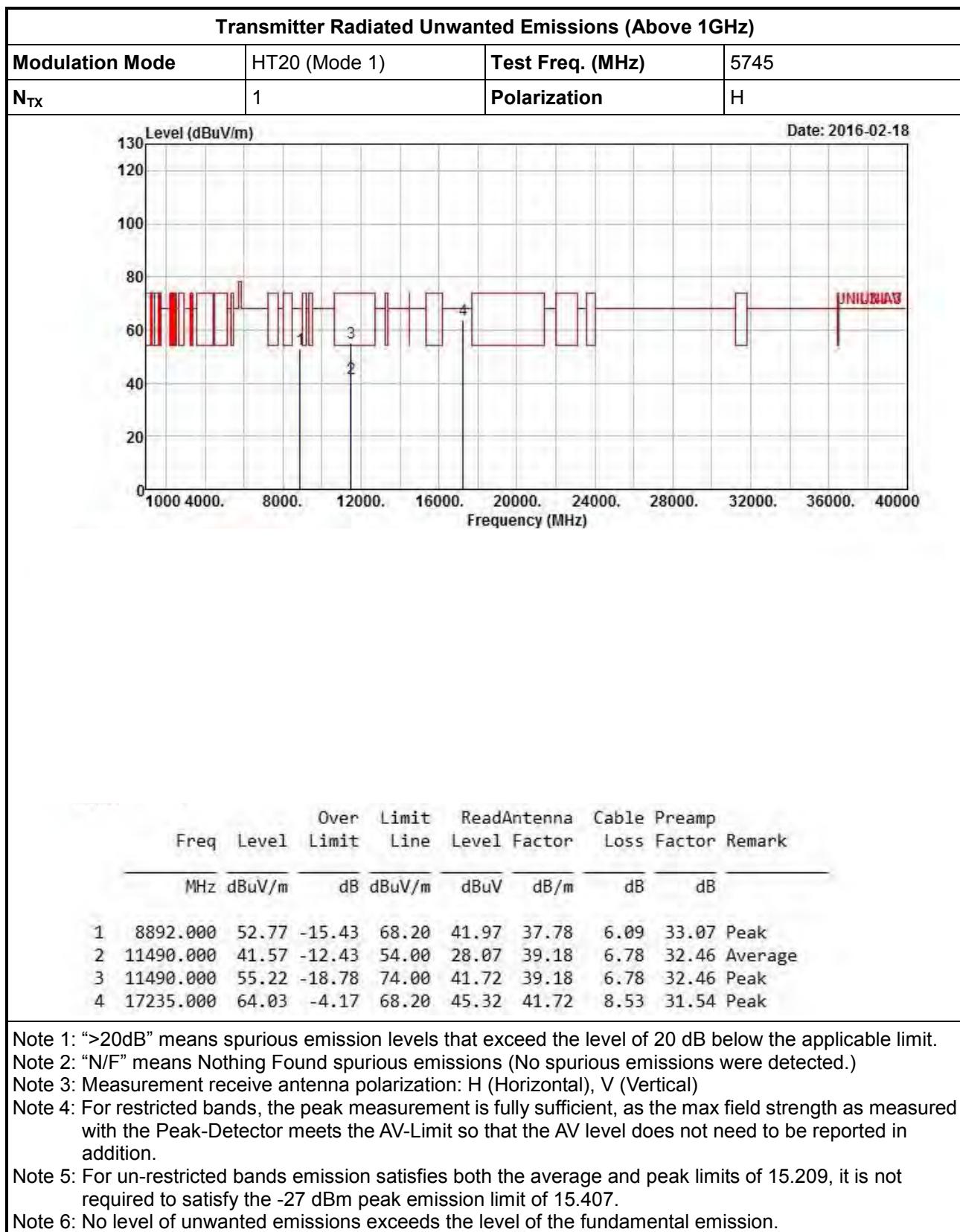


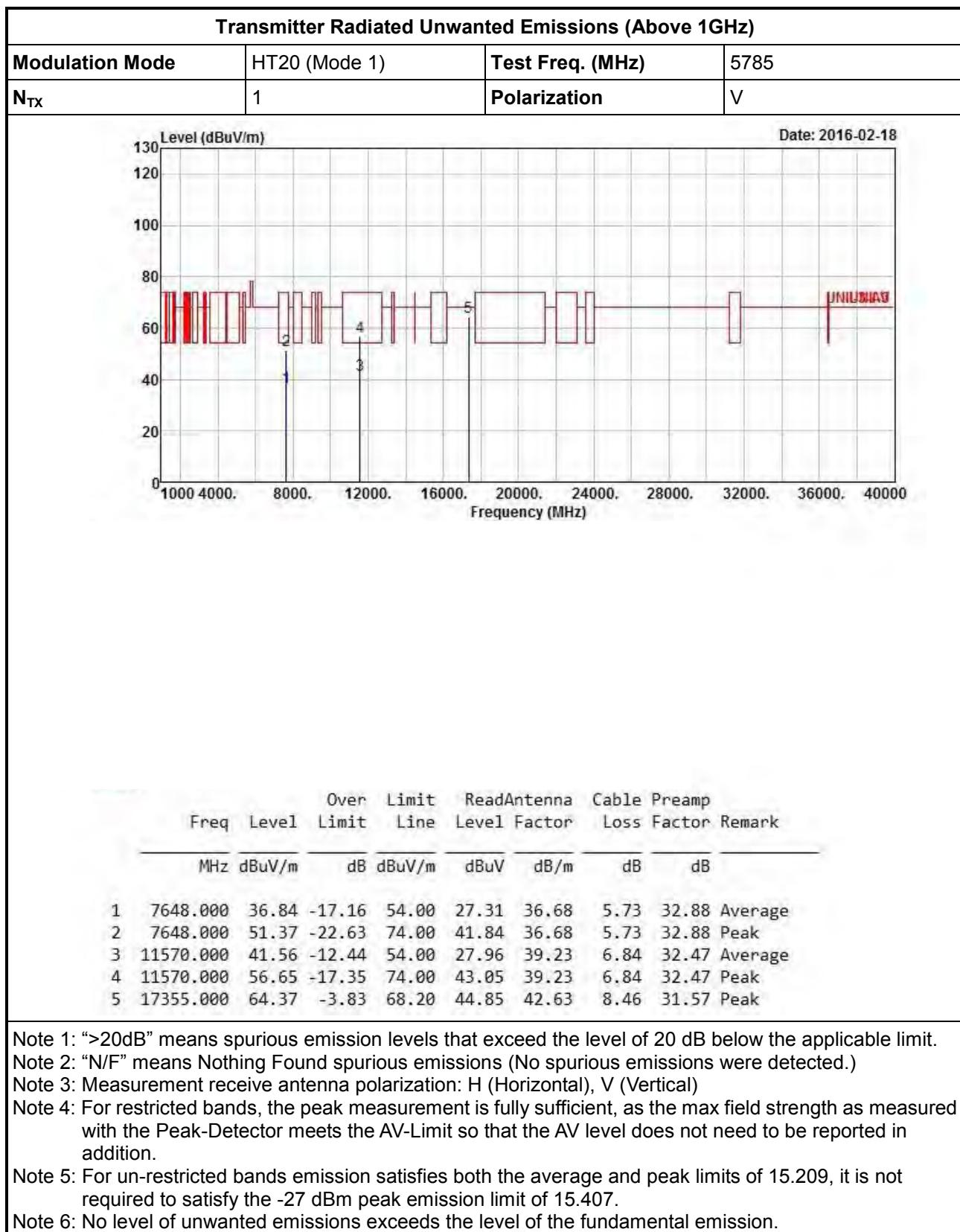


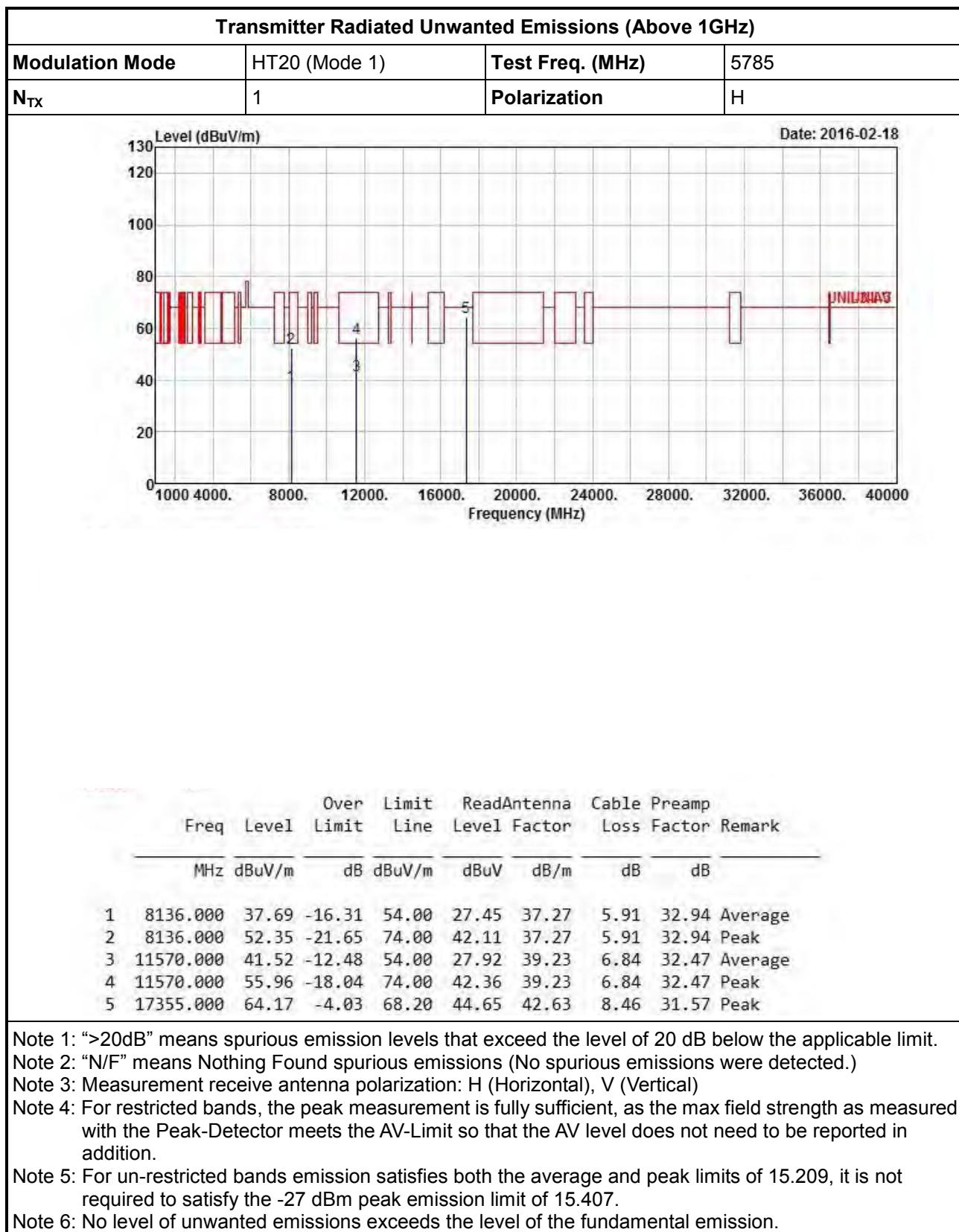












Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

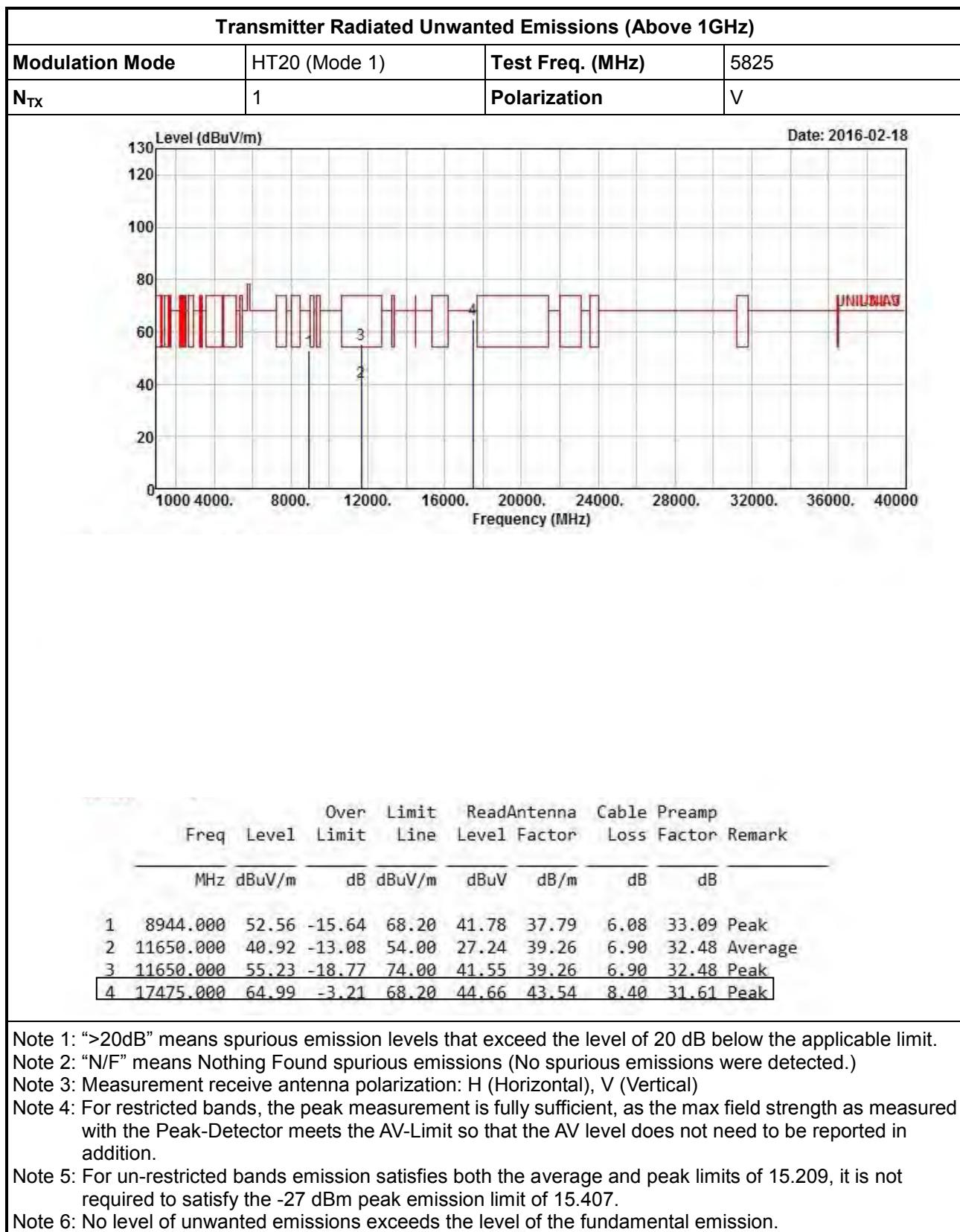
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

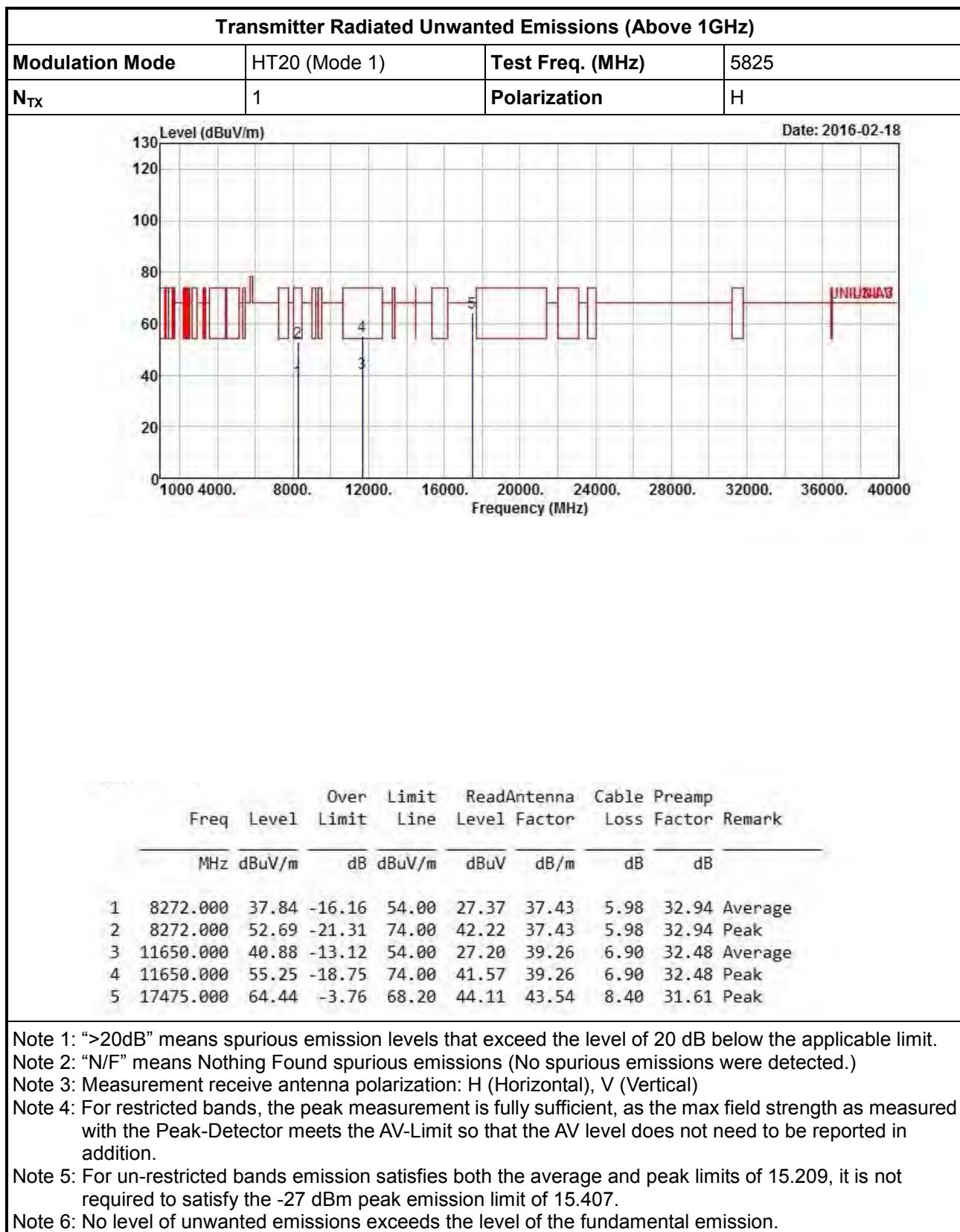
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

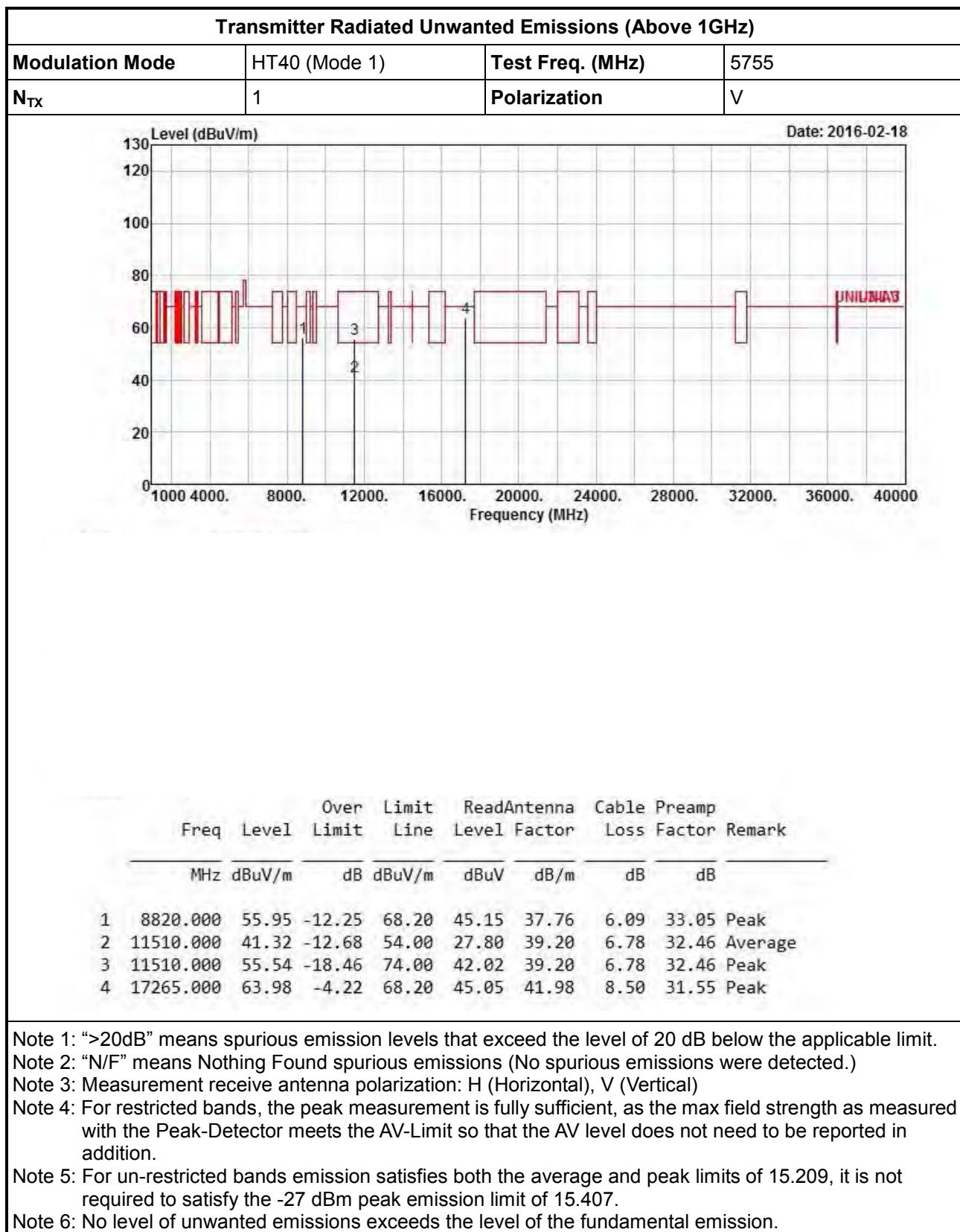
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

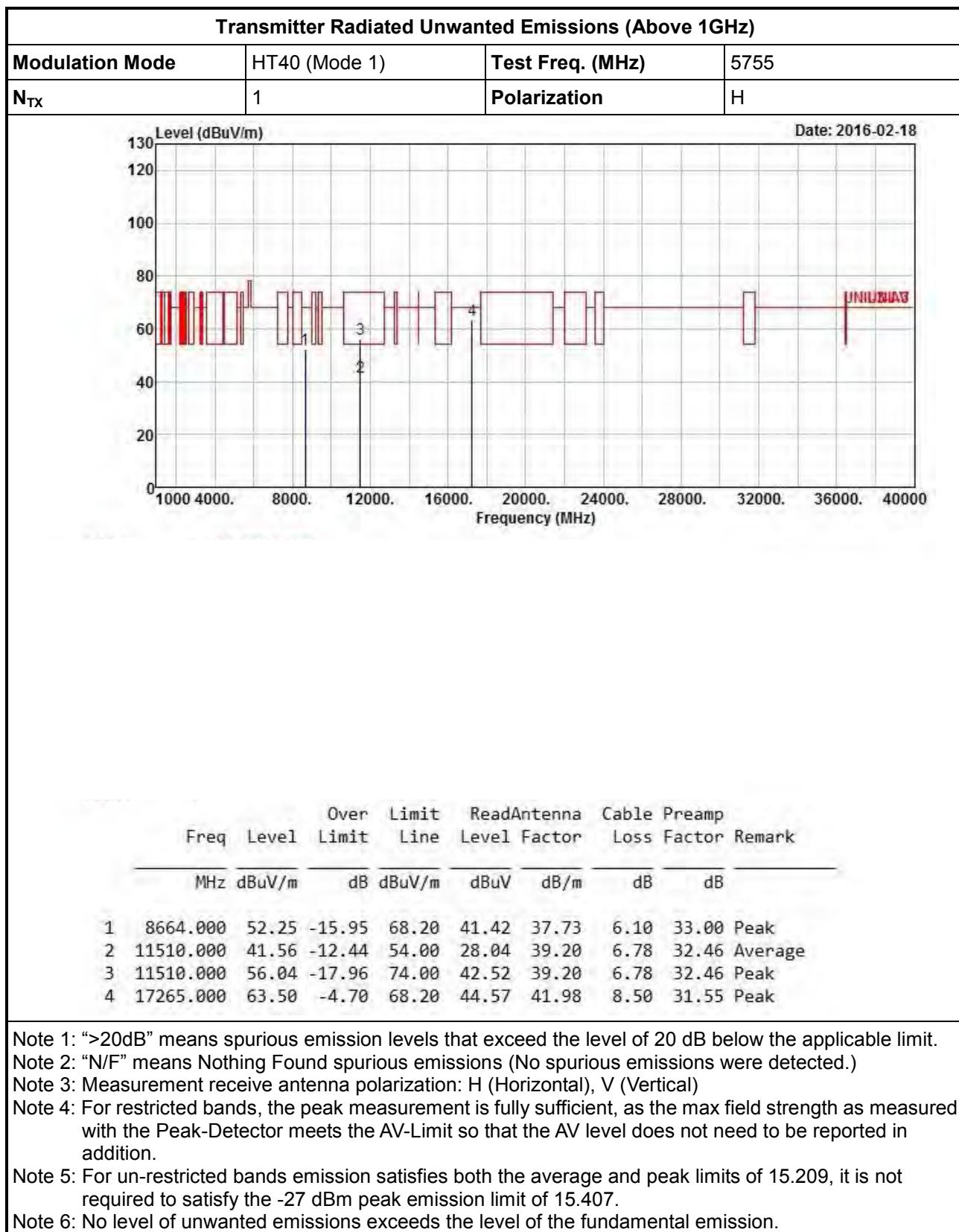
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

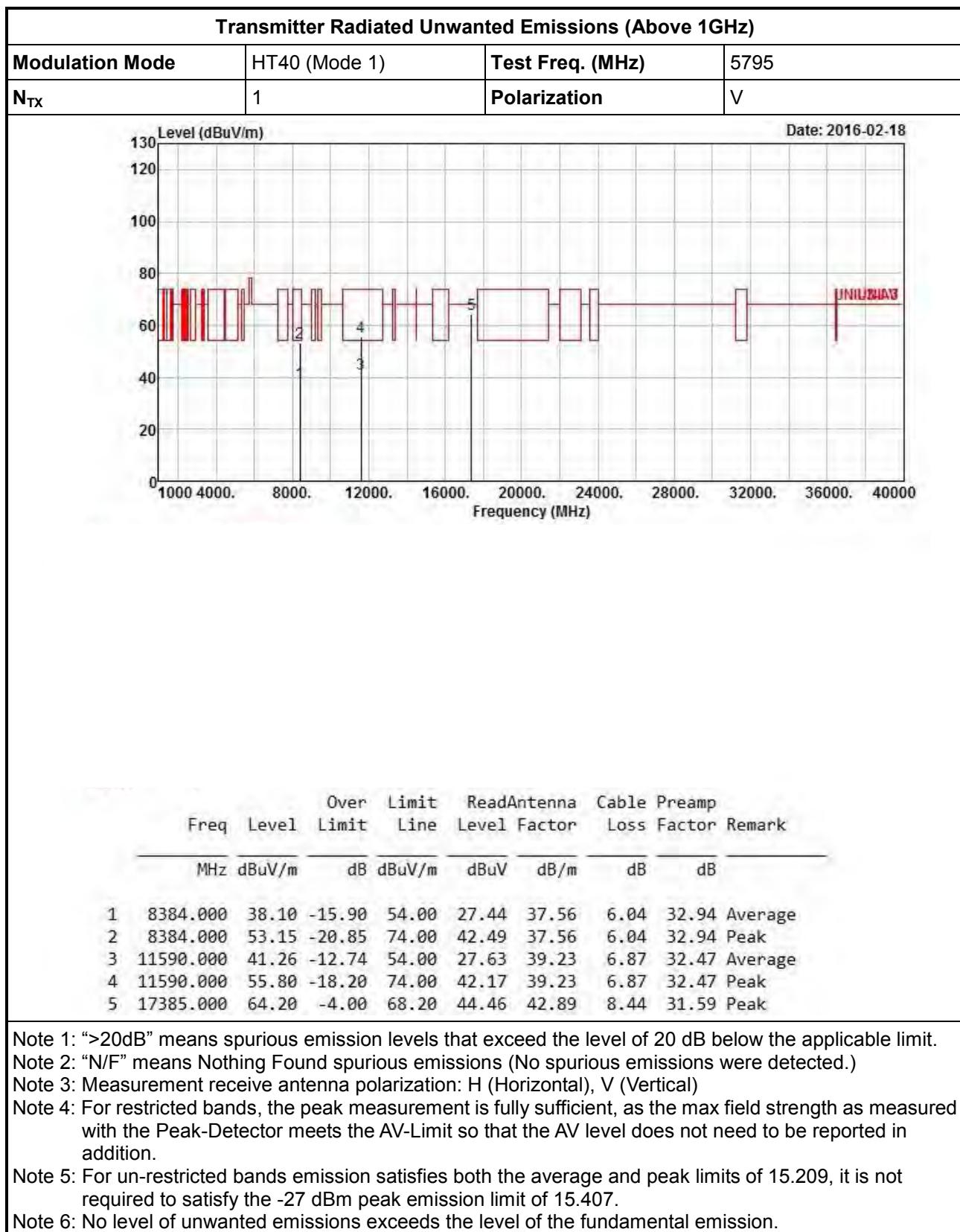
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

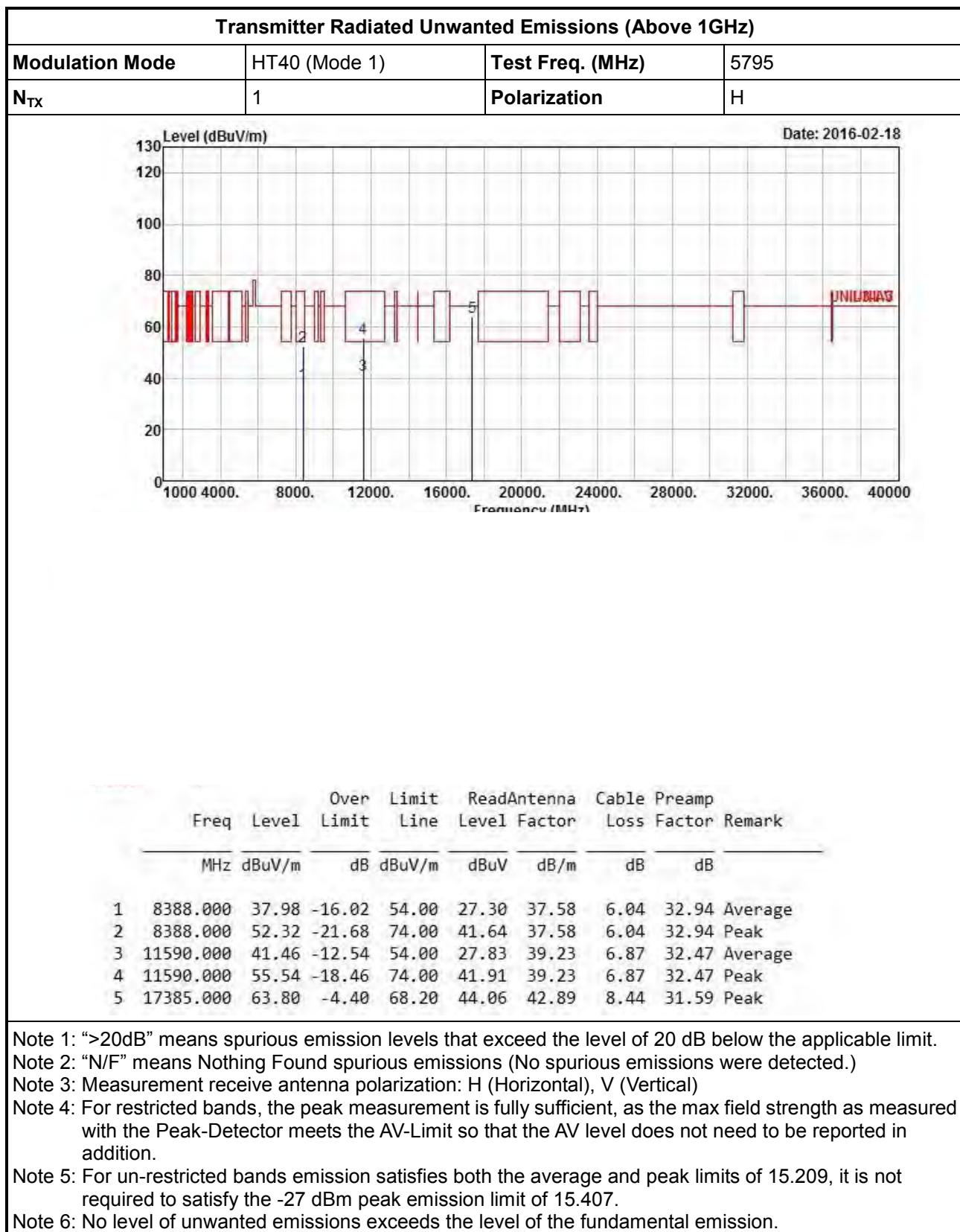


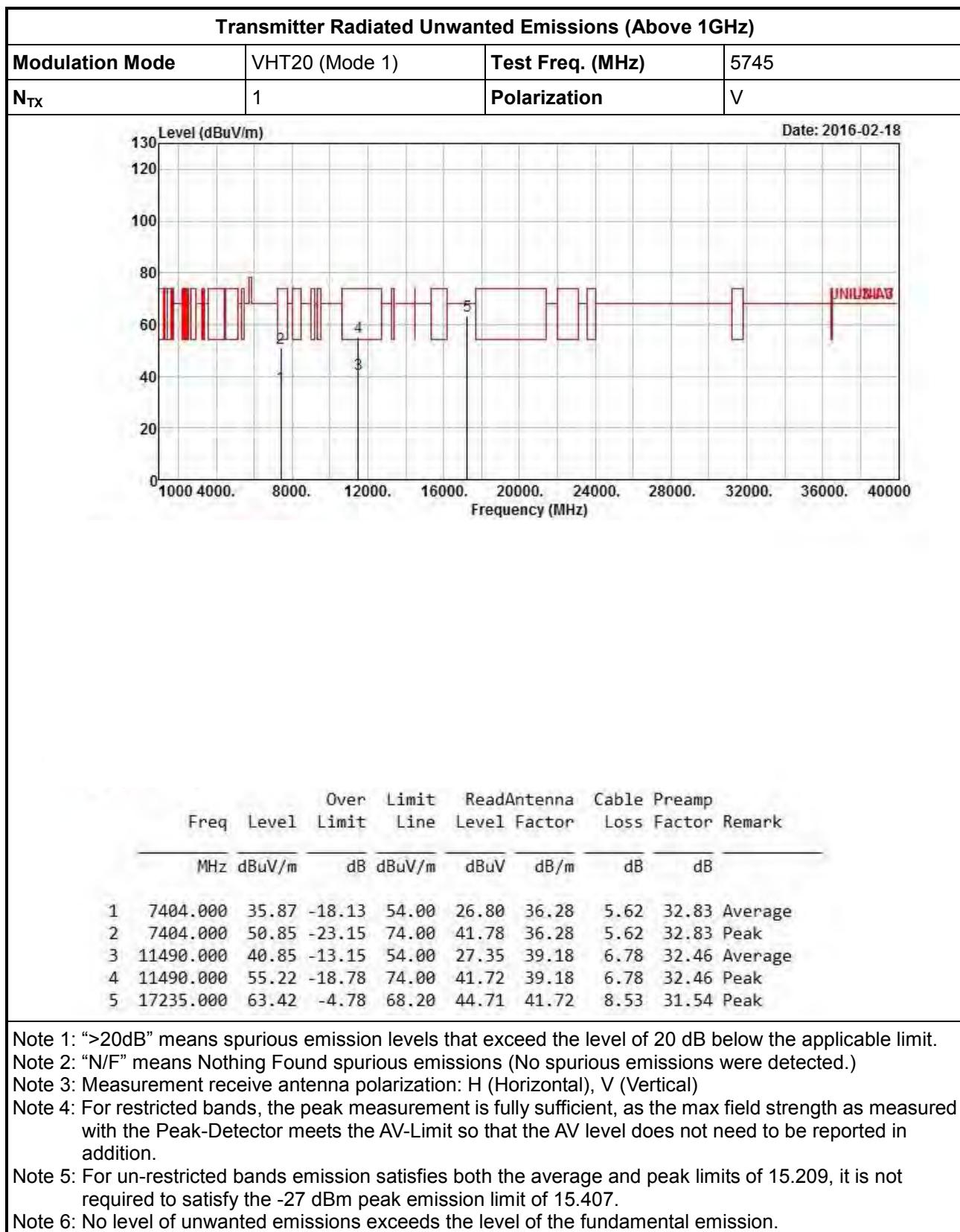


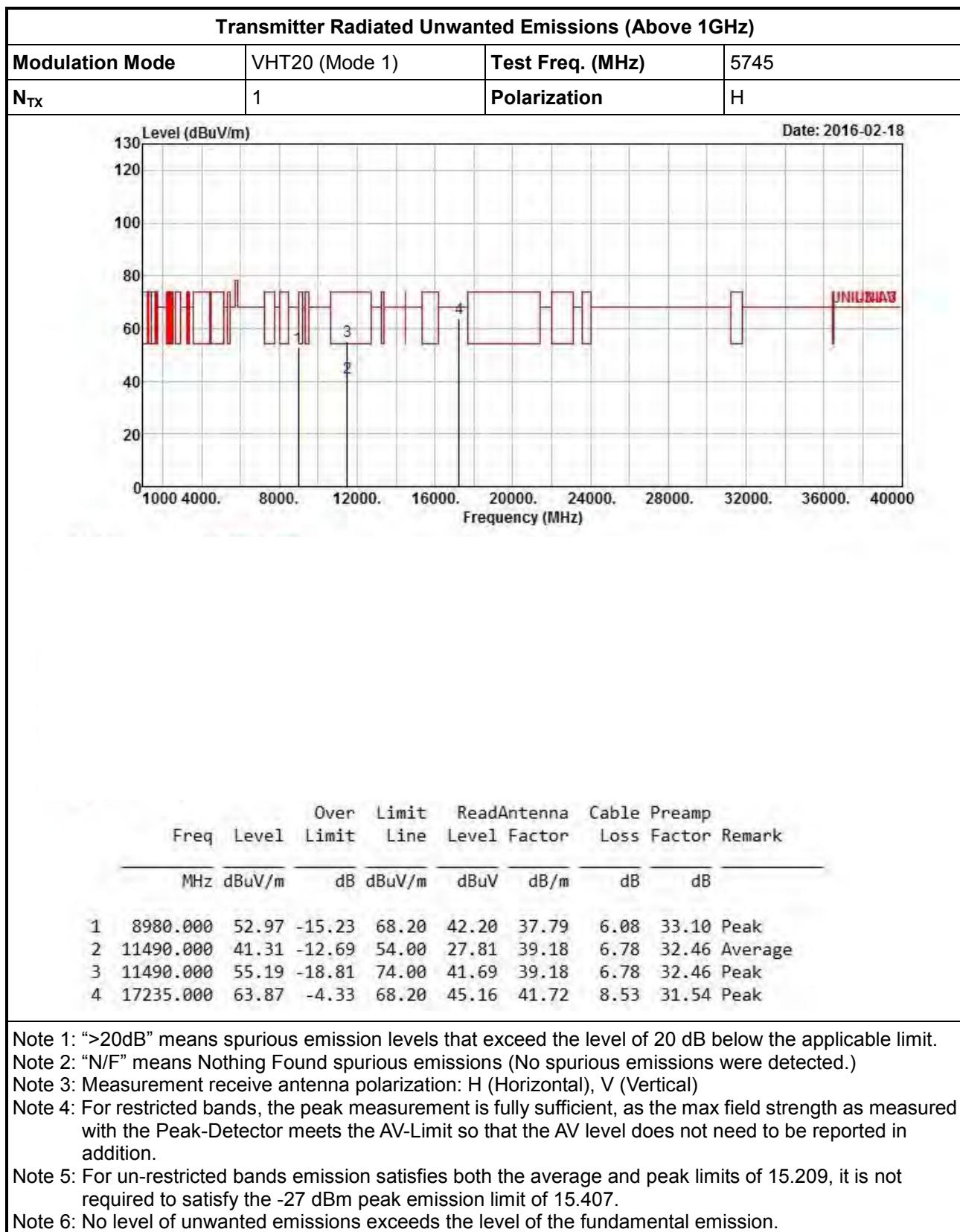












Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

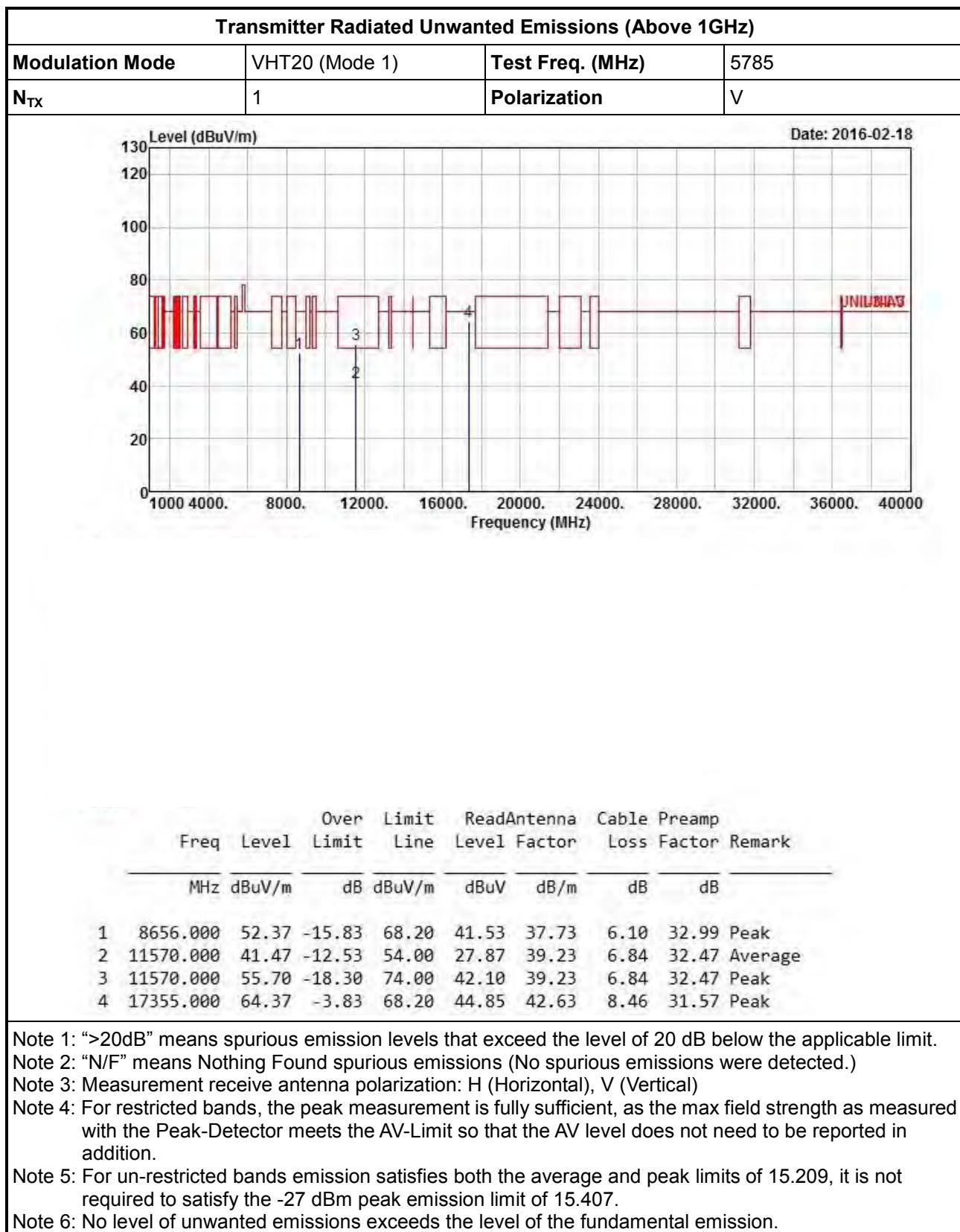
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

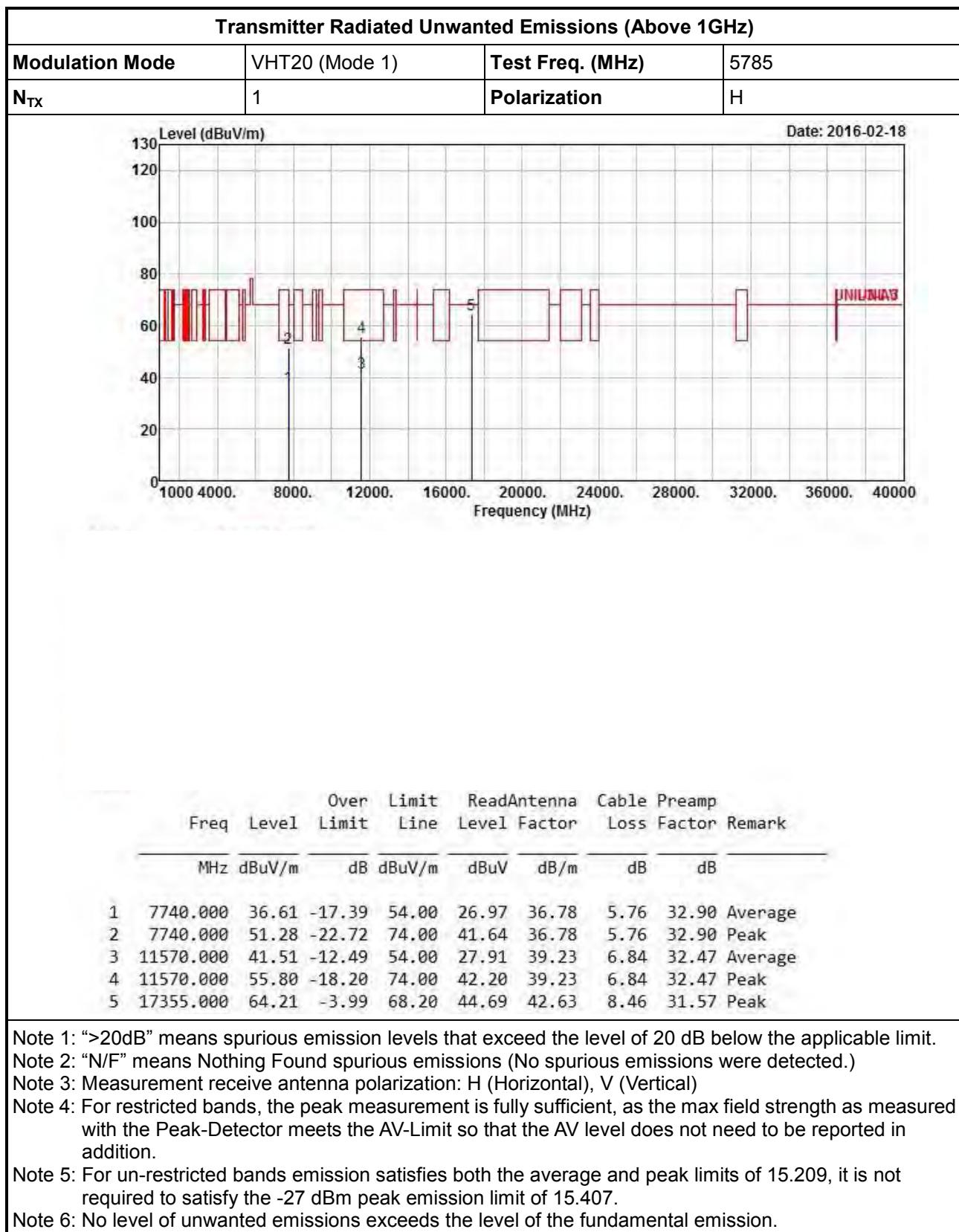
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

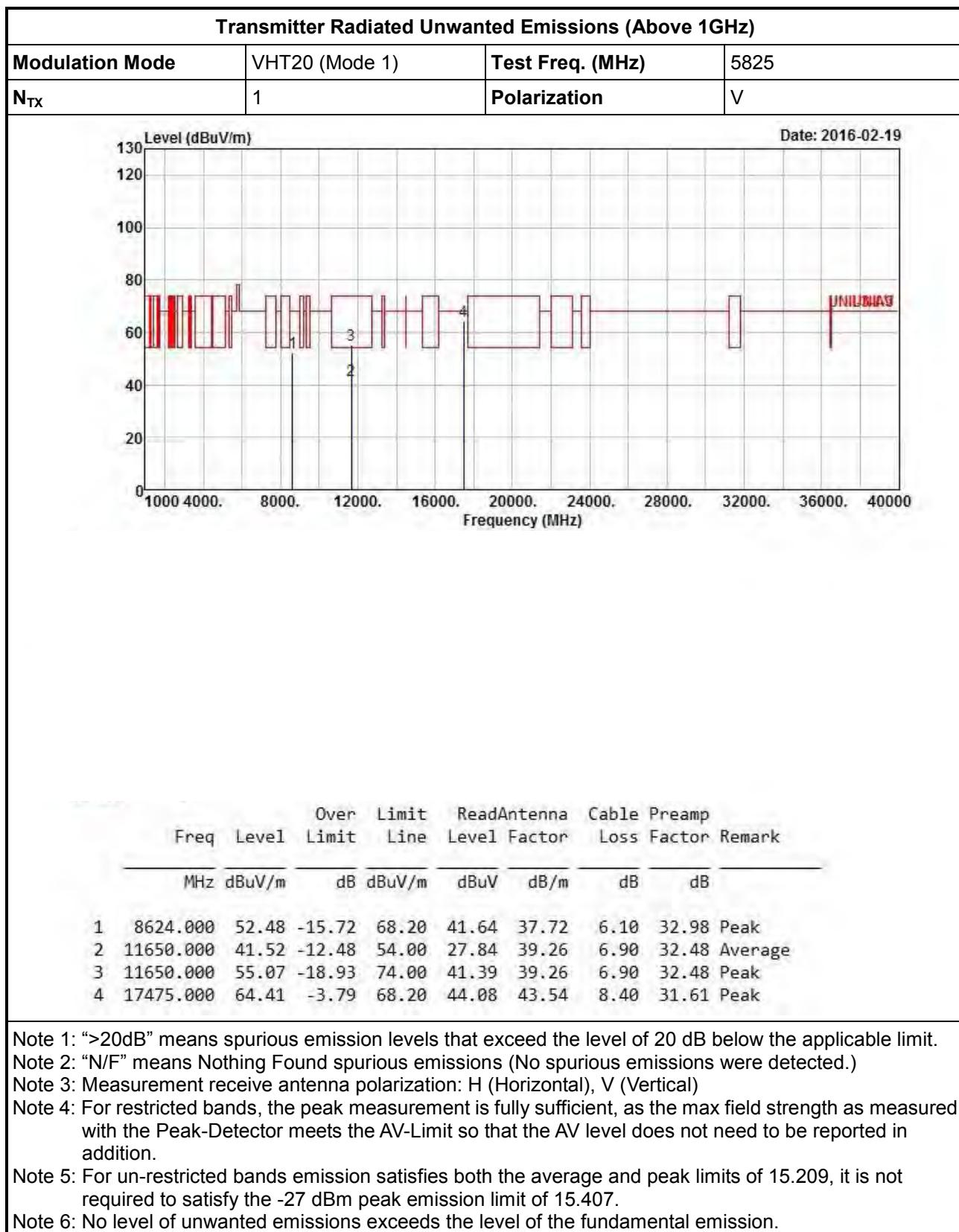
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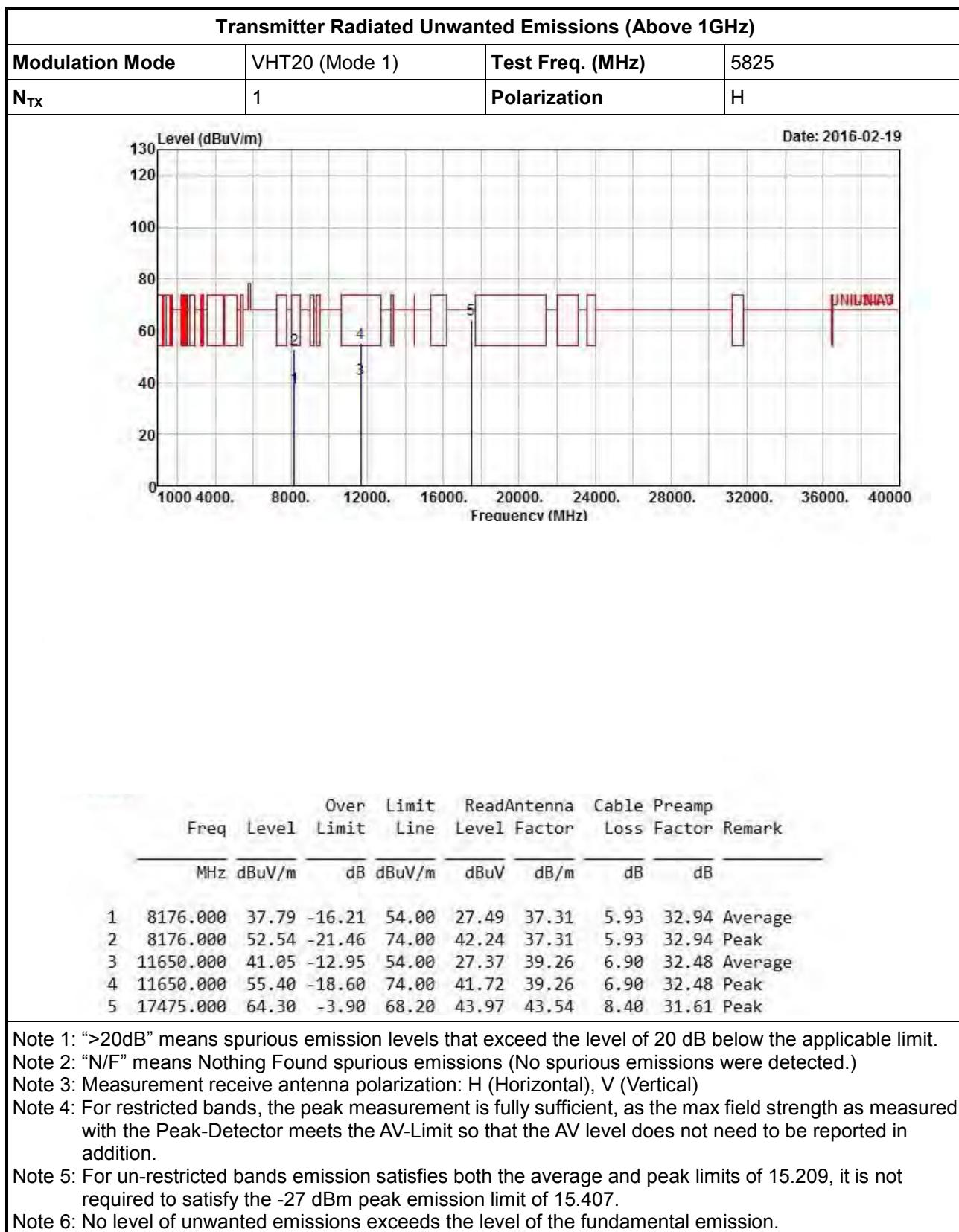
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

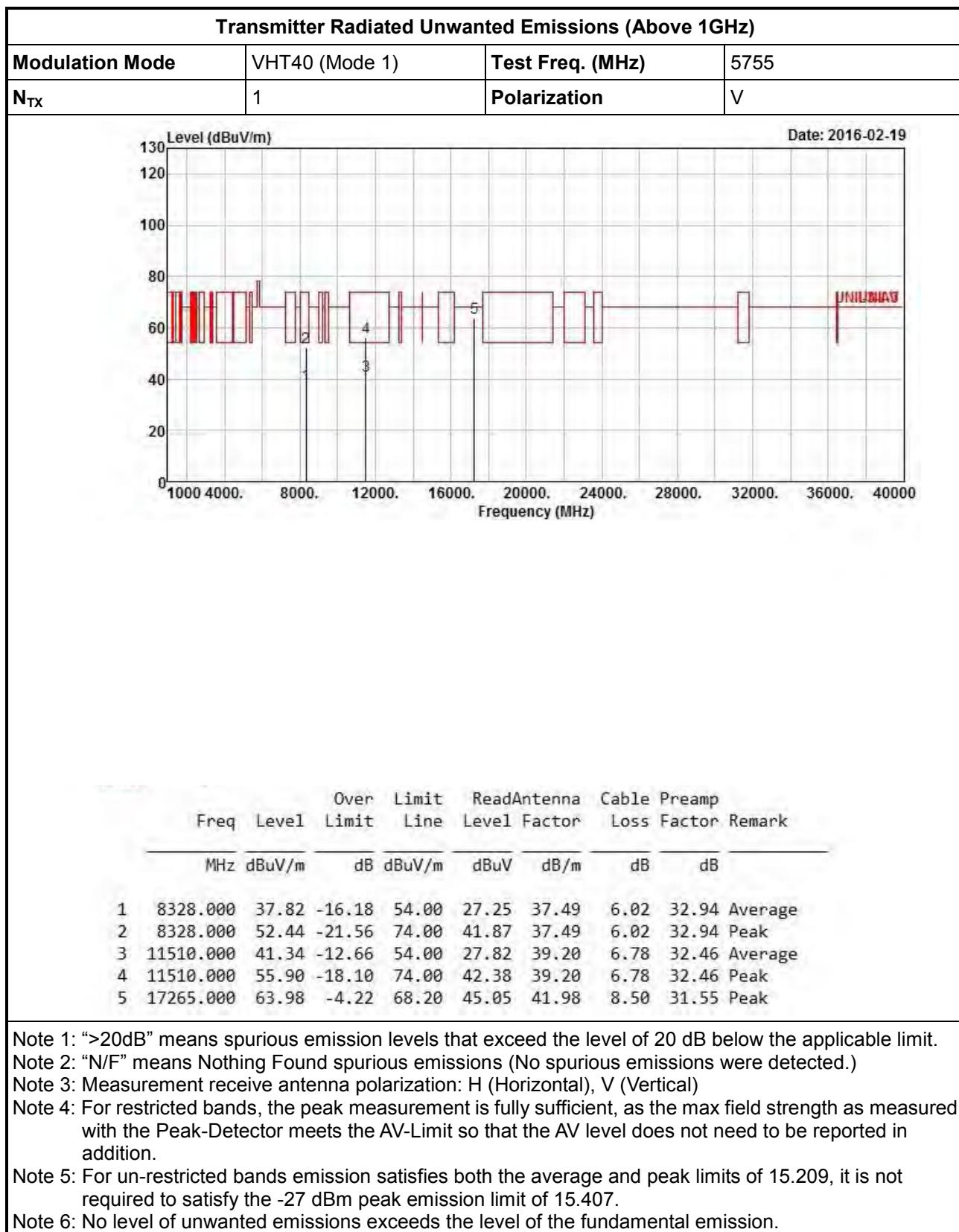
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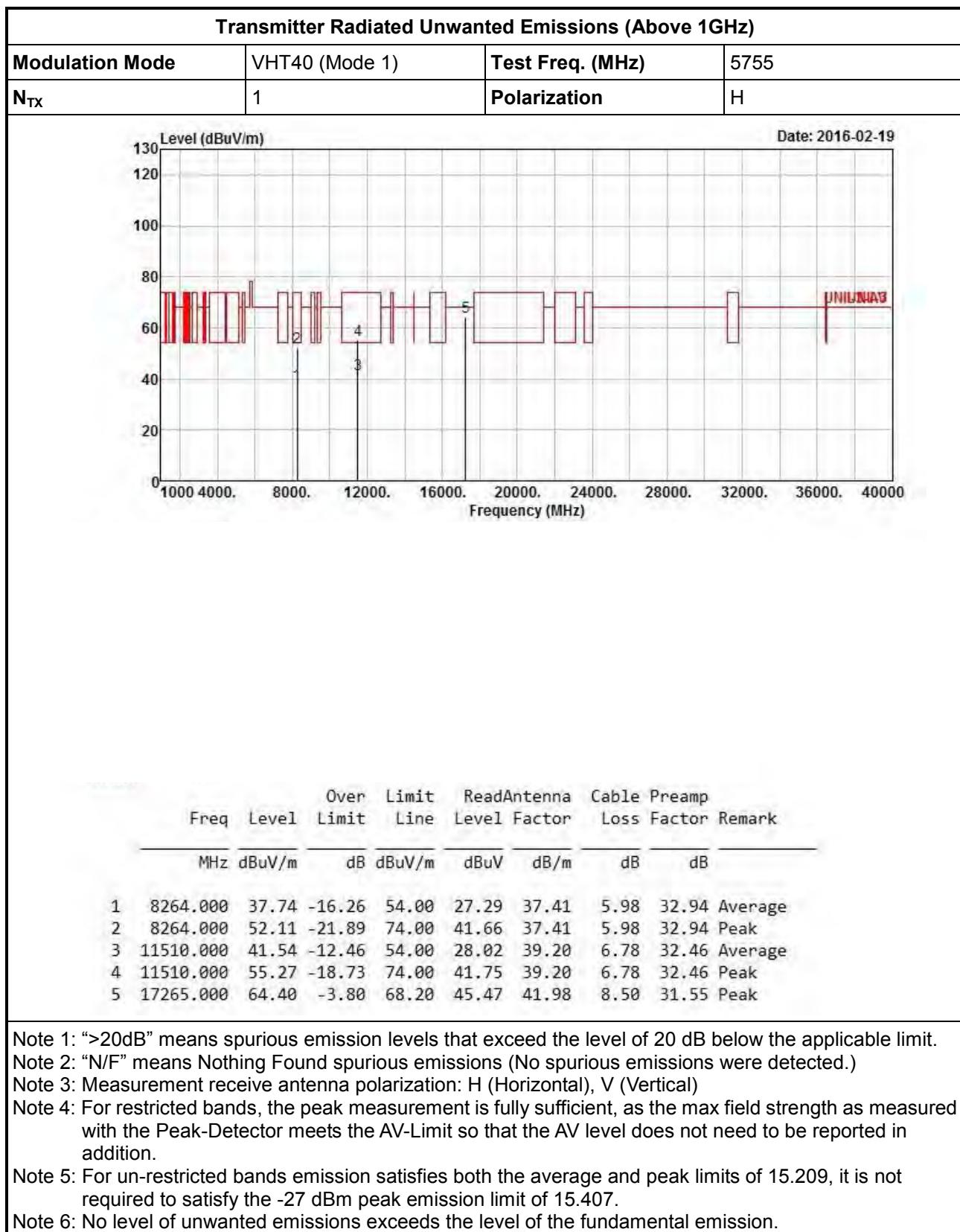


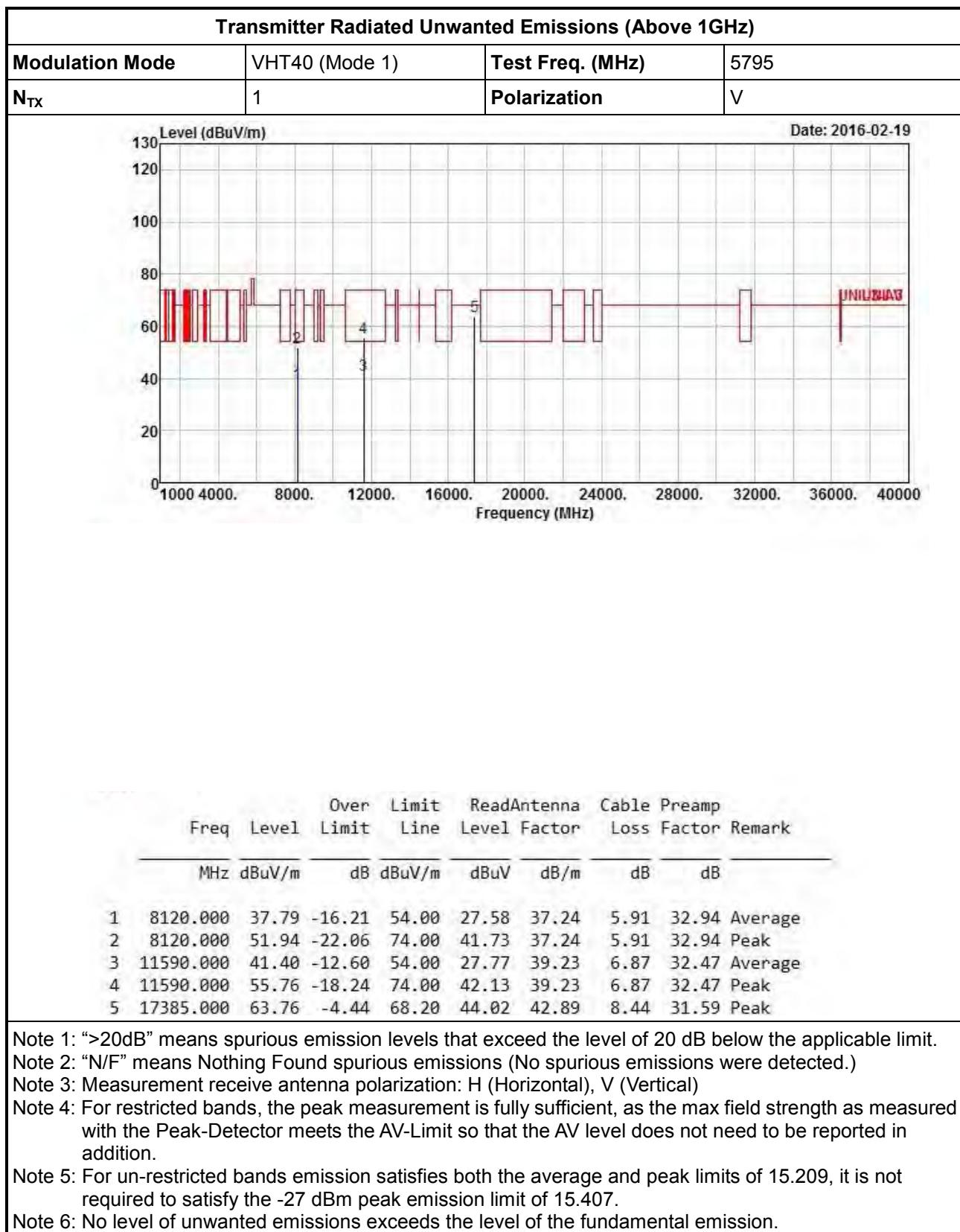


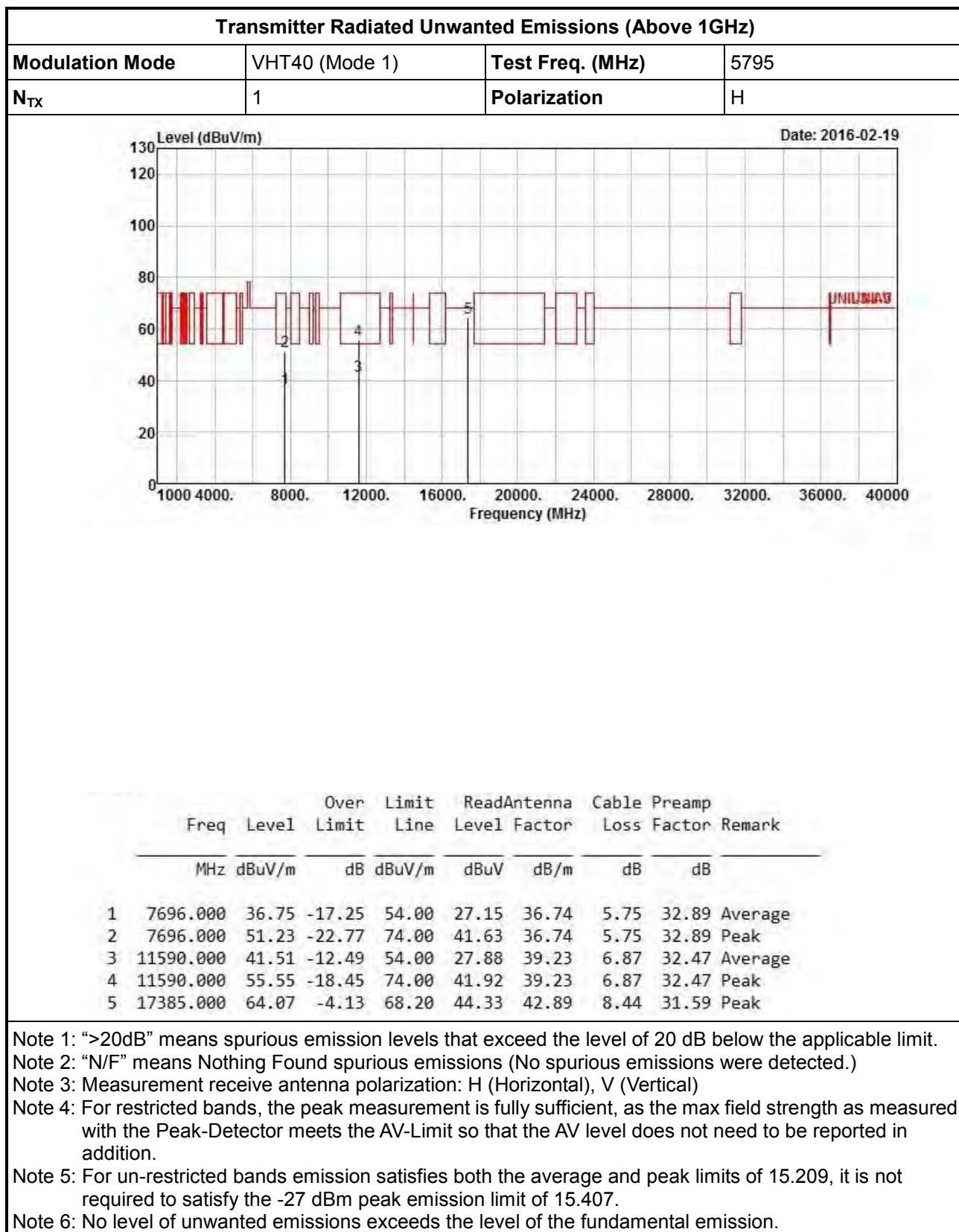


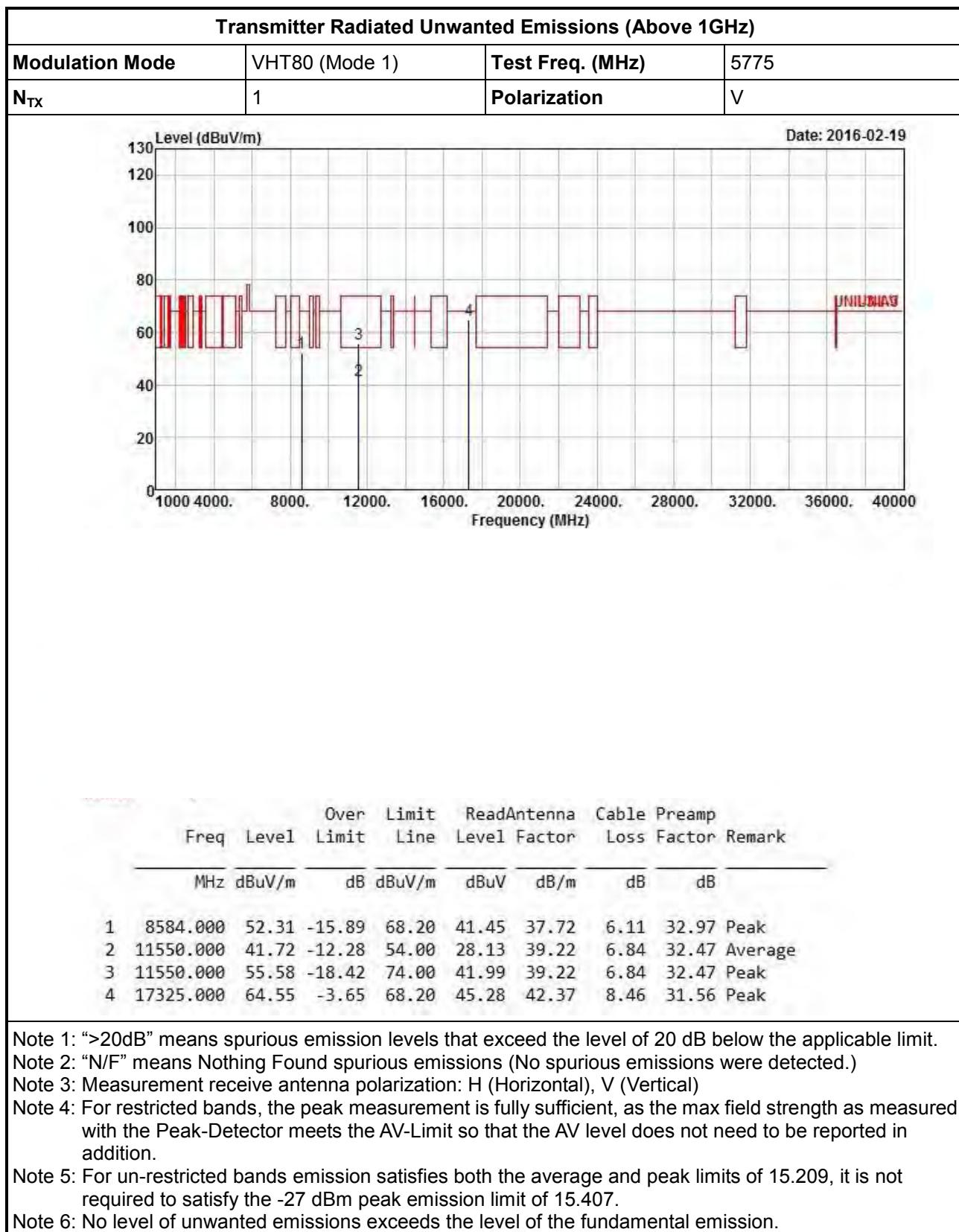


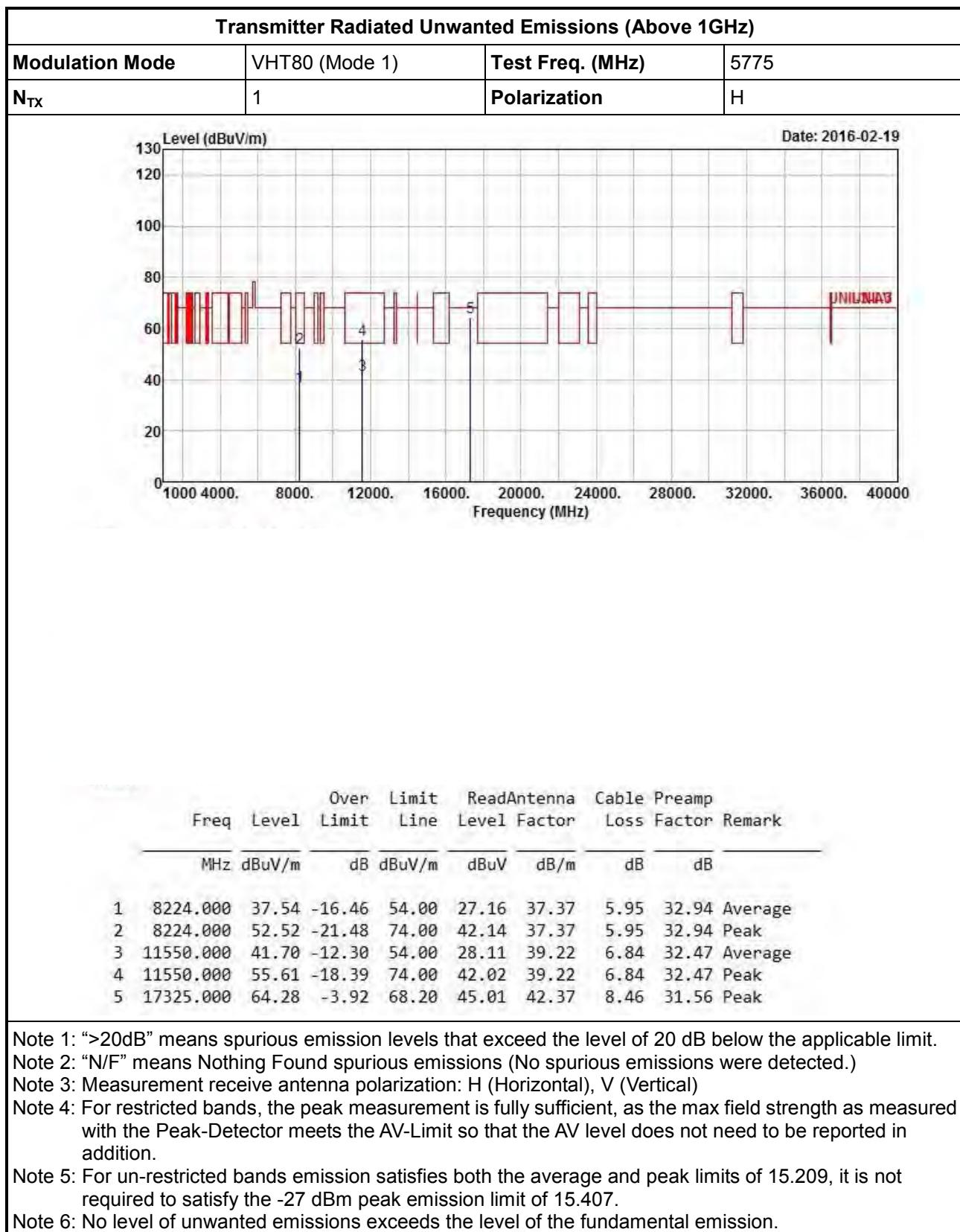


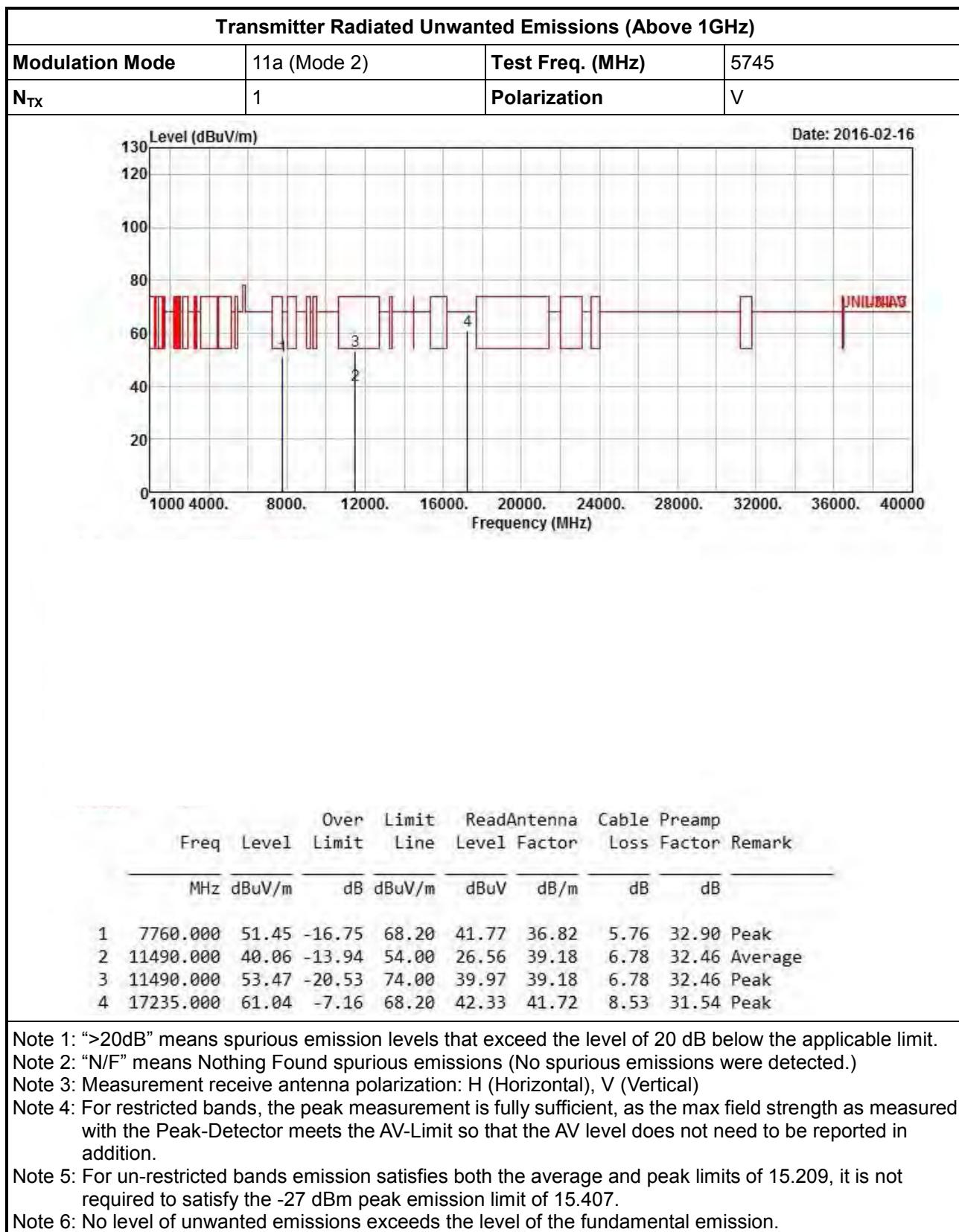








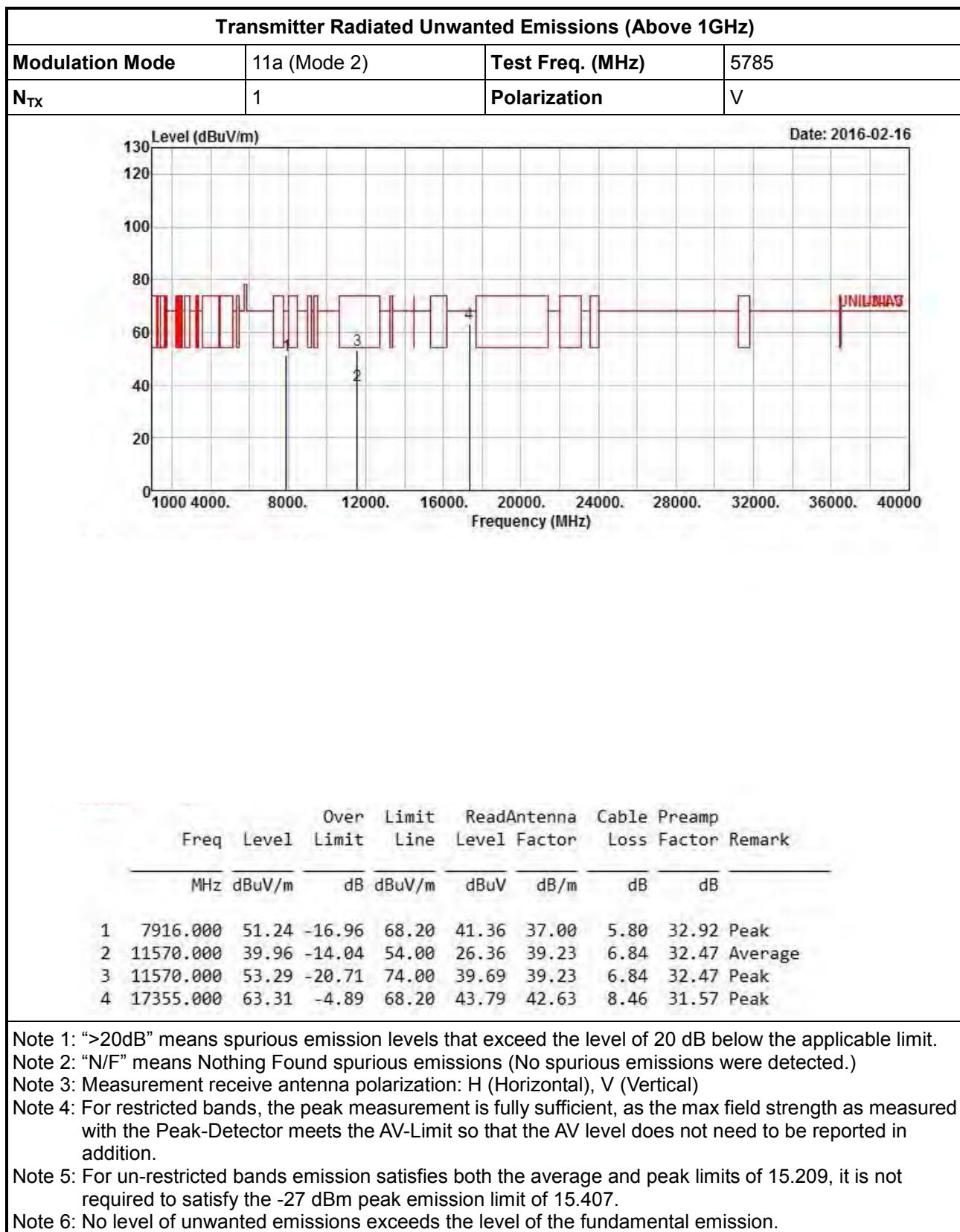


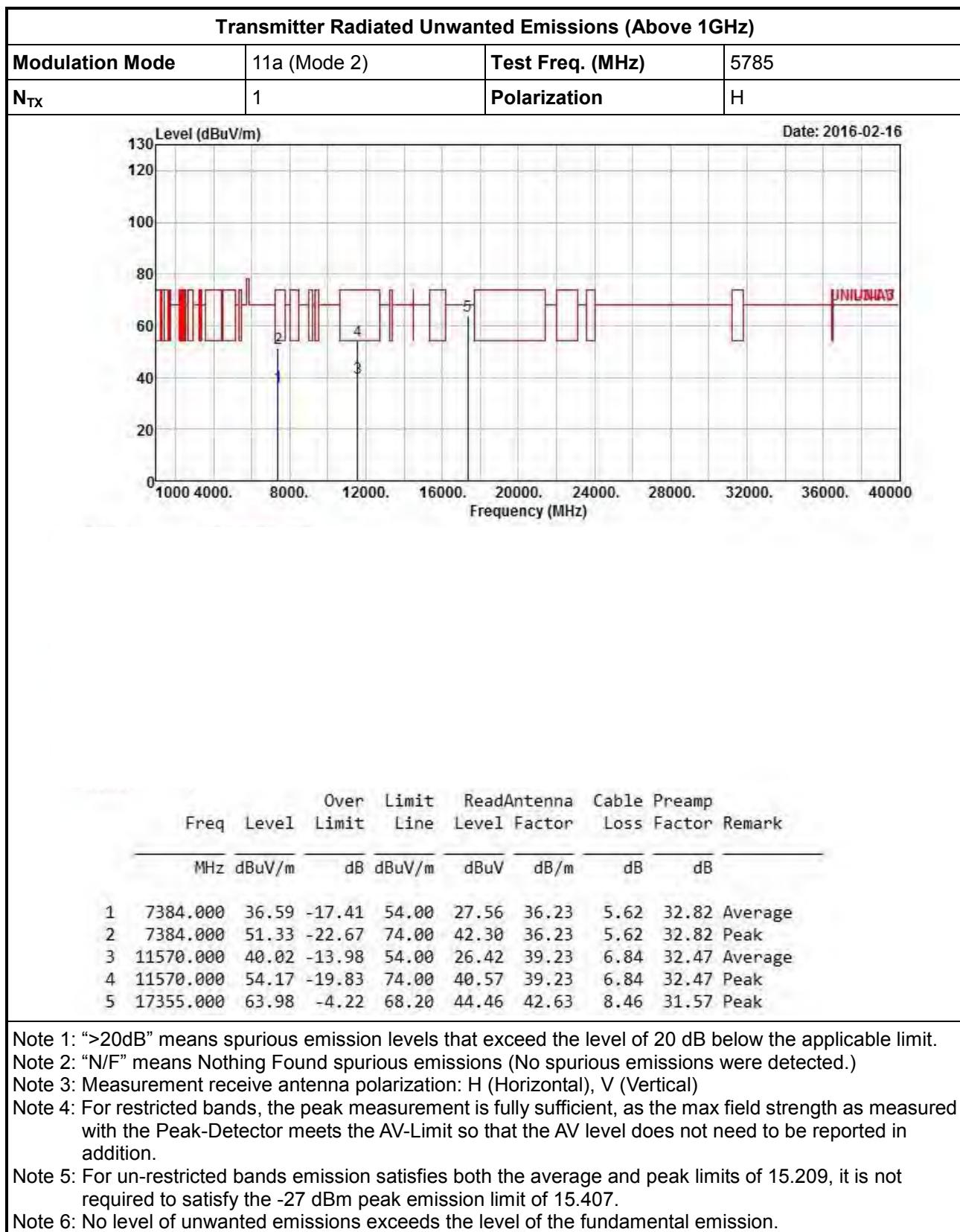


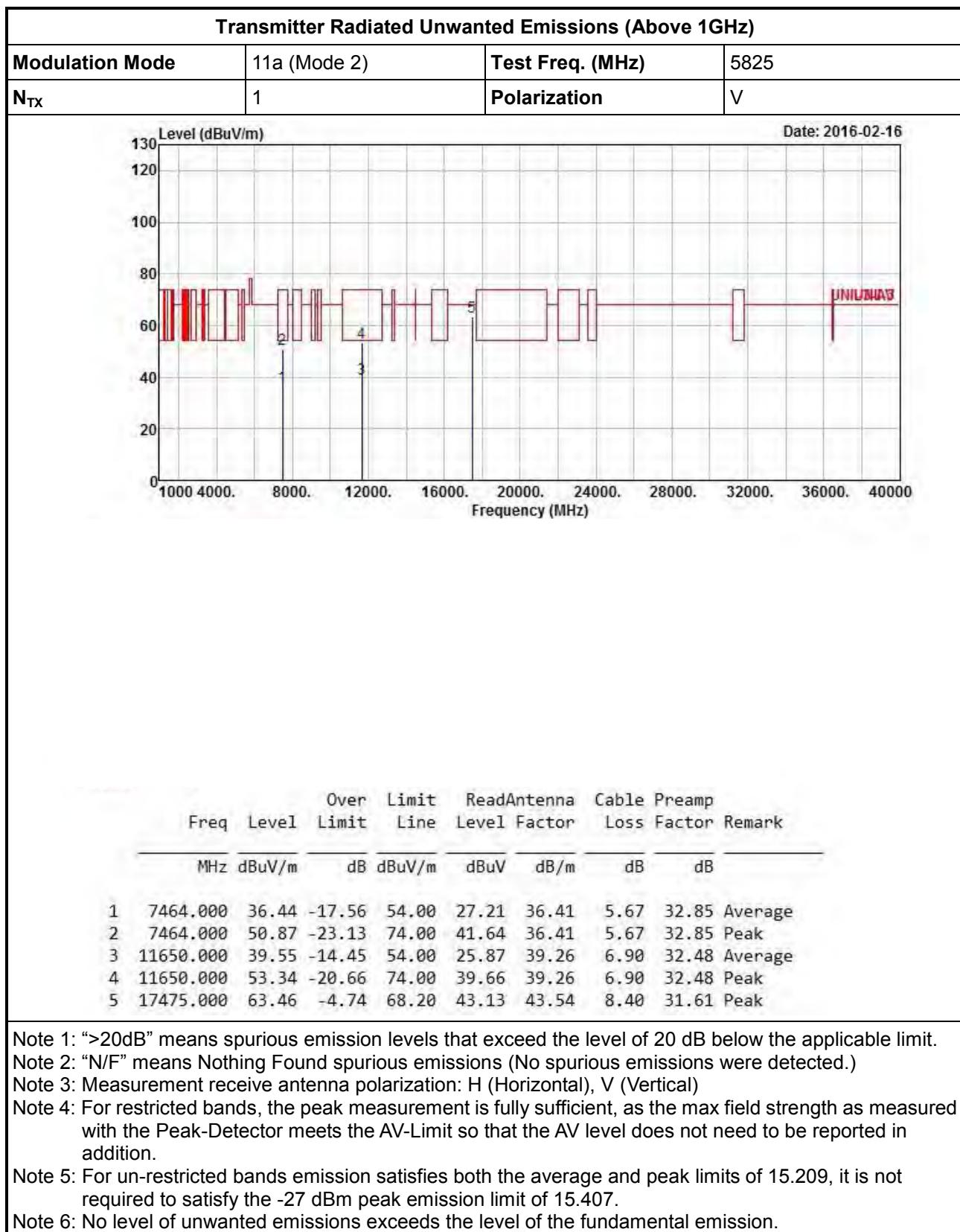


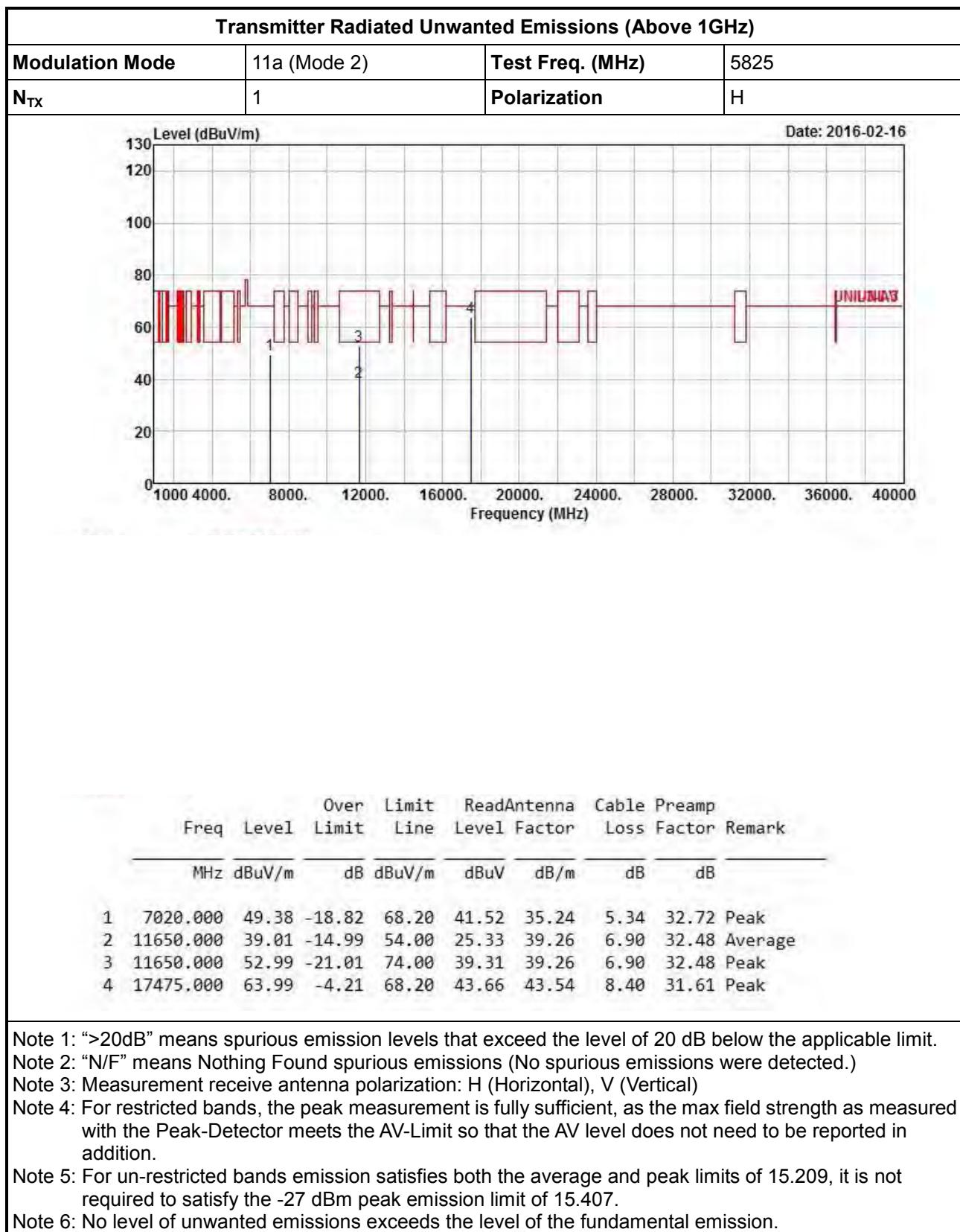
Transmitter Radiated Unwanted Emissions (Above 1GHz)

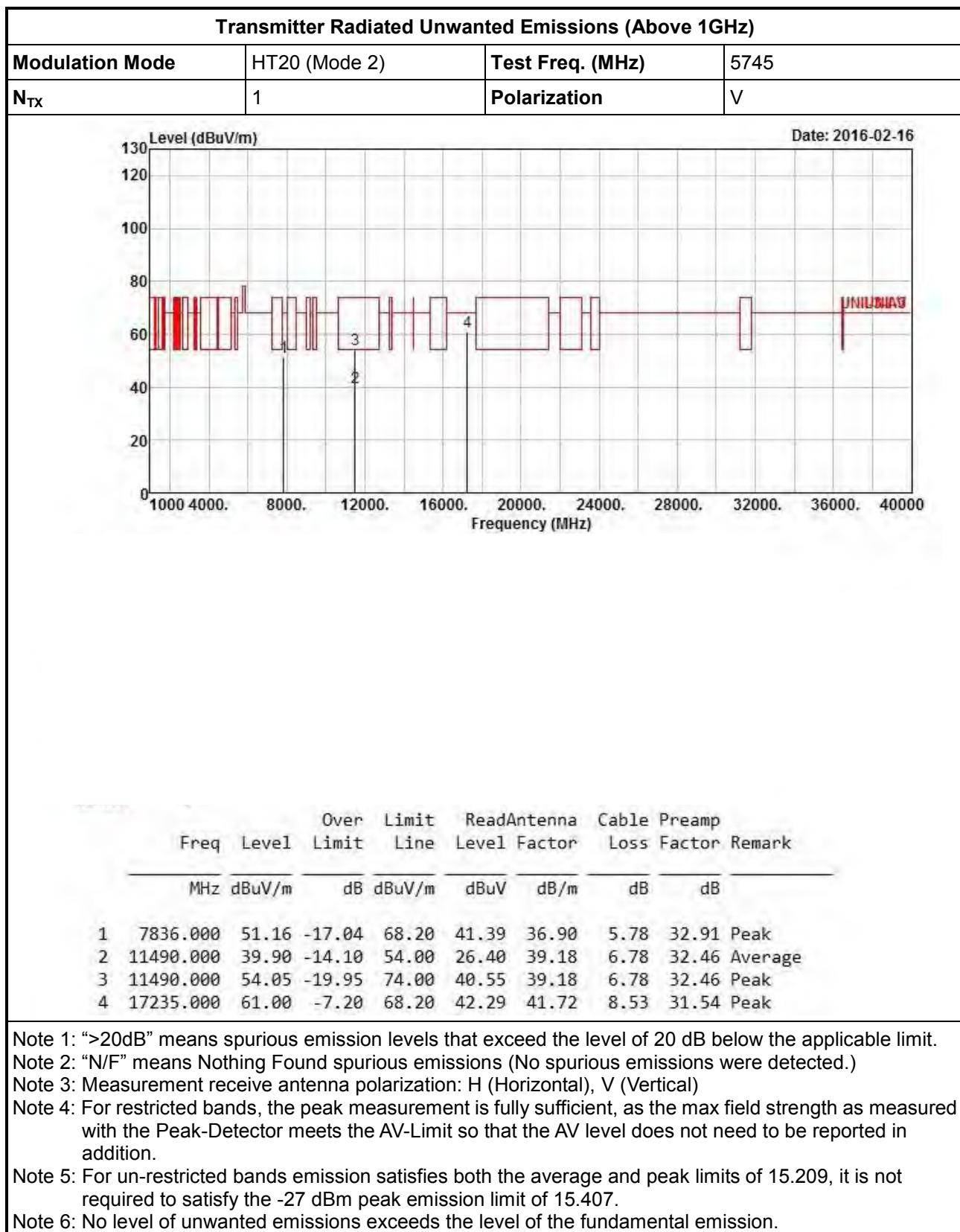
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N _{TX}	1	Polarization	H																												
Level (dB _u V/m)			Date: 2016-02-16																												
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Line</th> </tr> <tr> <th>MHz</th> <th>dB_uV/m</th> <th>dB</th> <th>dB_uV/m</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7364.000</td> <td>36.19</td> <td>-17.81</td> </tr> <tr> <td>2</td> <td>7364.000</td> <td>50.40</td> <td>-23.60</td> </tr> <tr> <td>3</td> <td>11490.000</td> <td>39.83</td> <td>-14.17</td> </tr> <tr> <td>4</td> <td>11490.000</td> <td>53.89</td> <td>-20.11</td> </tr> <tr> <td>5</td> <td>17235.000</td> <td>61.04</td> <td>-7.16</td> </tr> </tbody> </table>				Freq	Level	Over Limit	Line	MHz	dB _u V/m	dB	dB _u V/m	1	7364.000	36.19	-17.81	2	7364.000	50.40	-23.60	3	11490.000	39.83	-14.17	4	11490.000	53.89	-20.11	5	17235.000	61.04	-7.16
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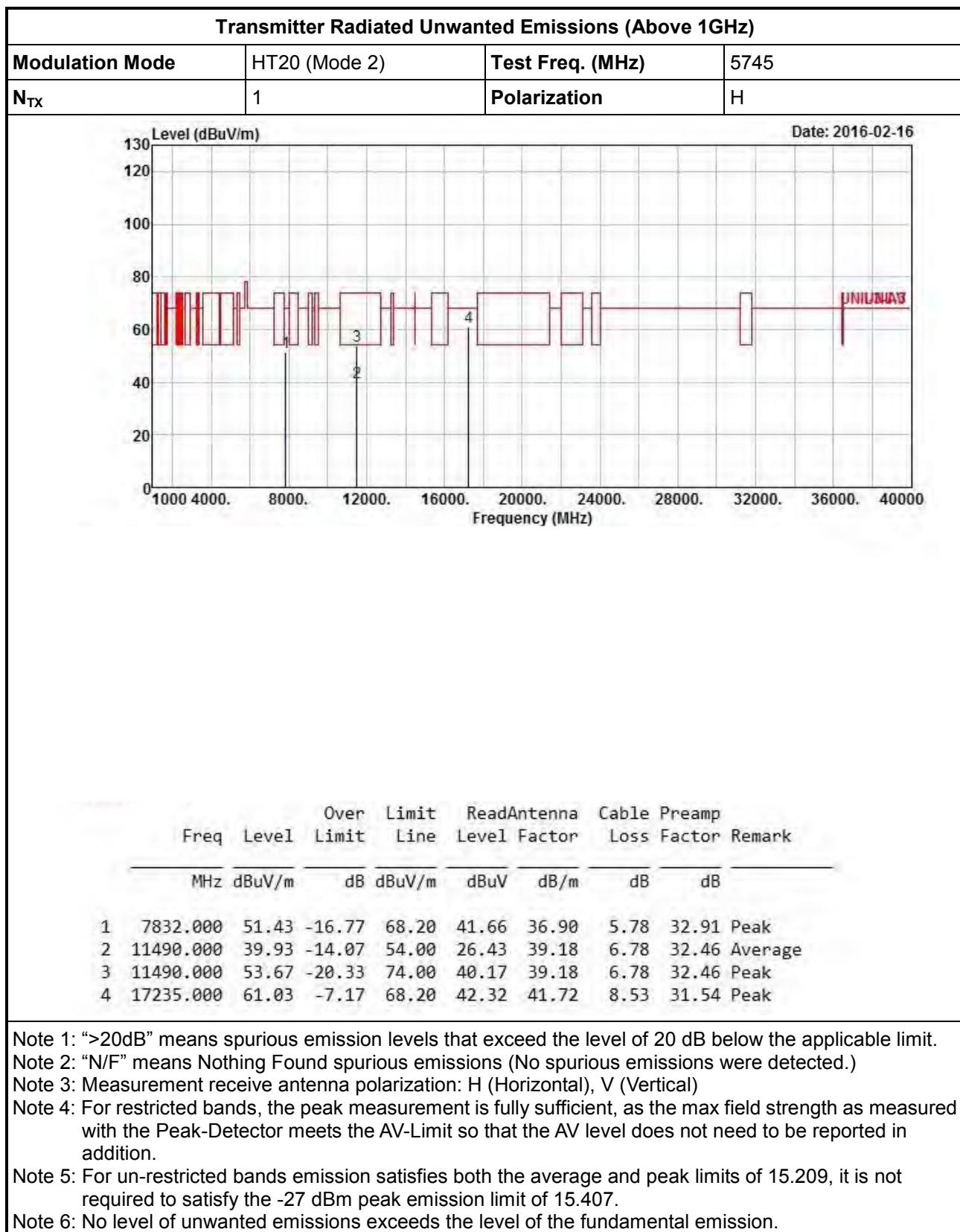


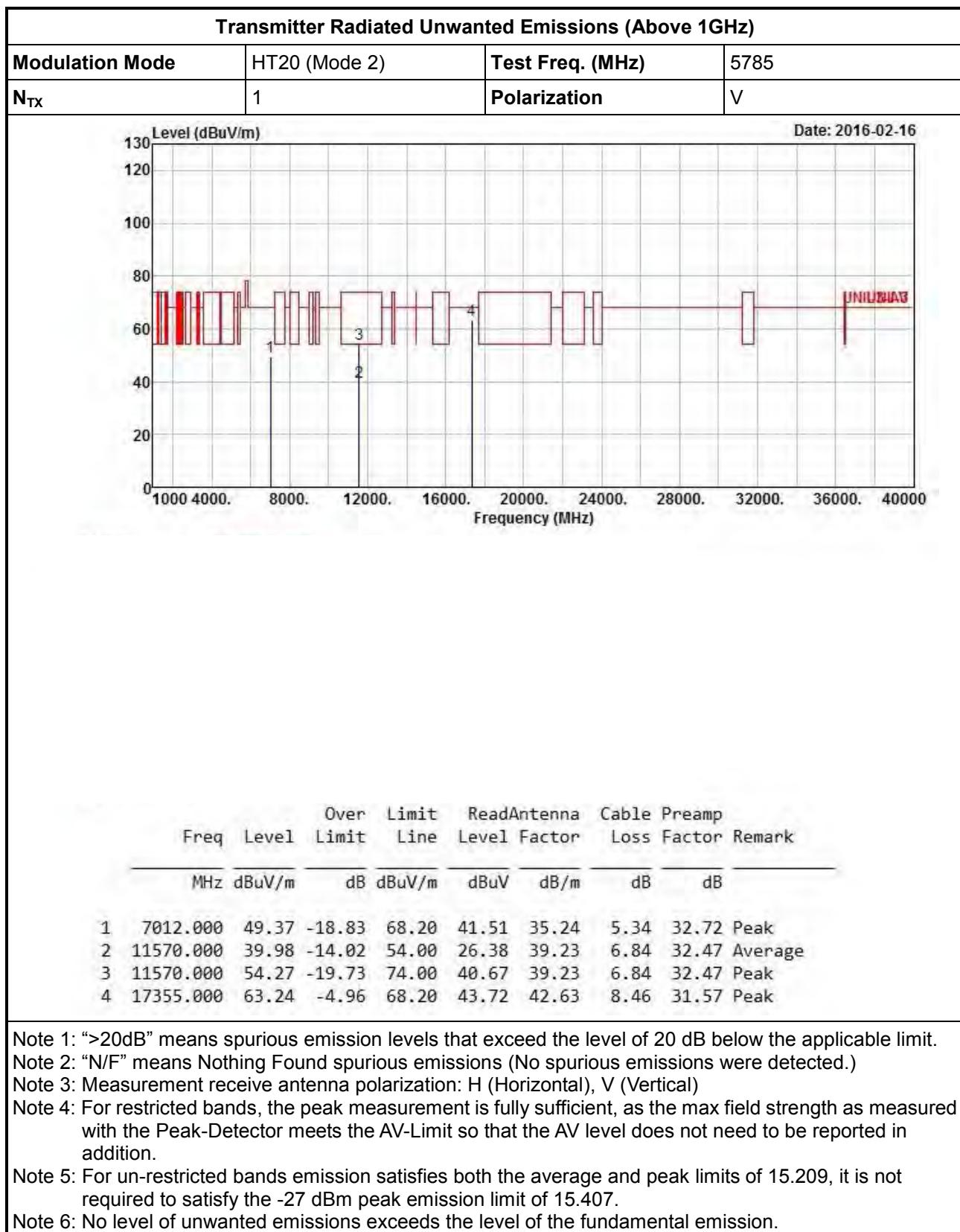


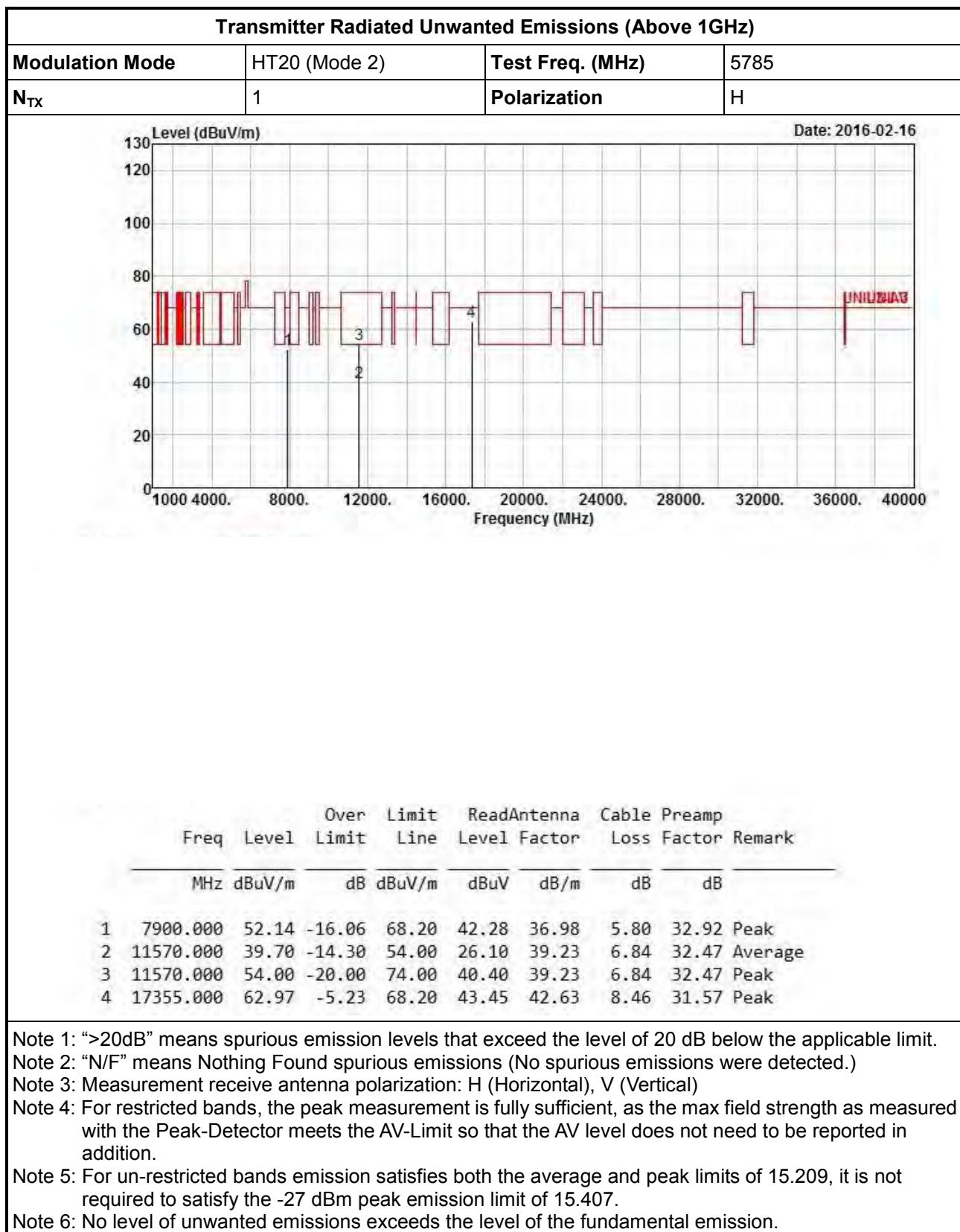


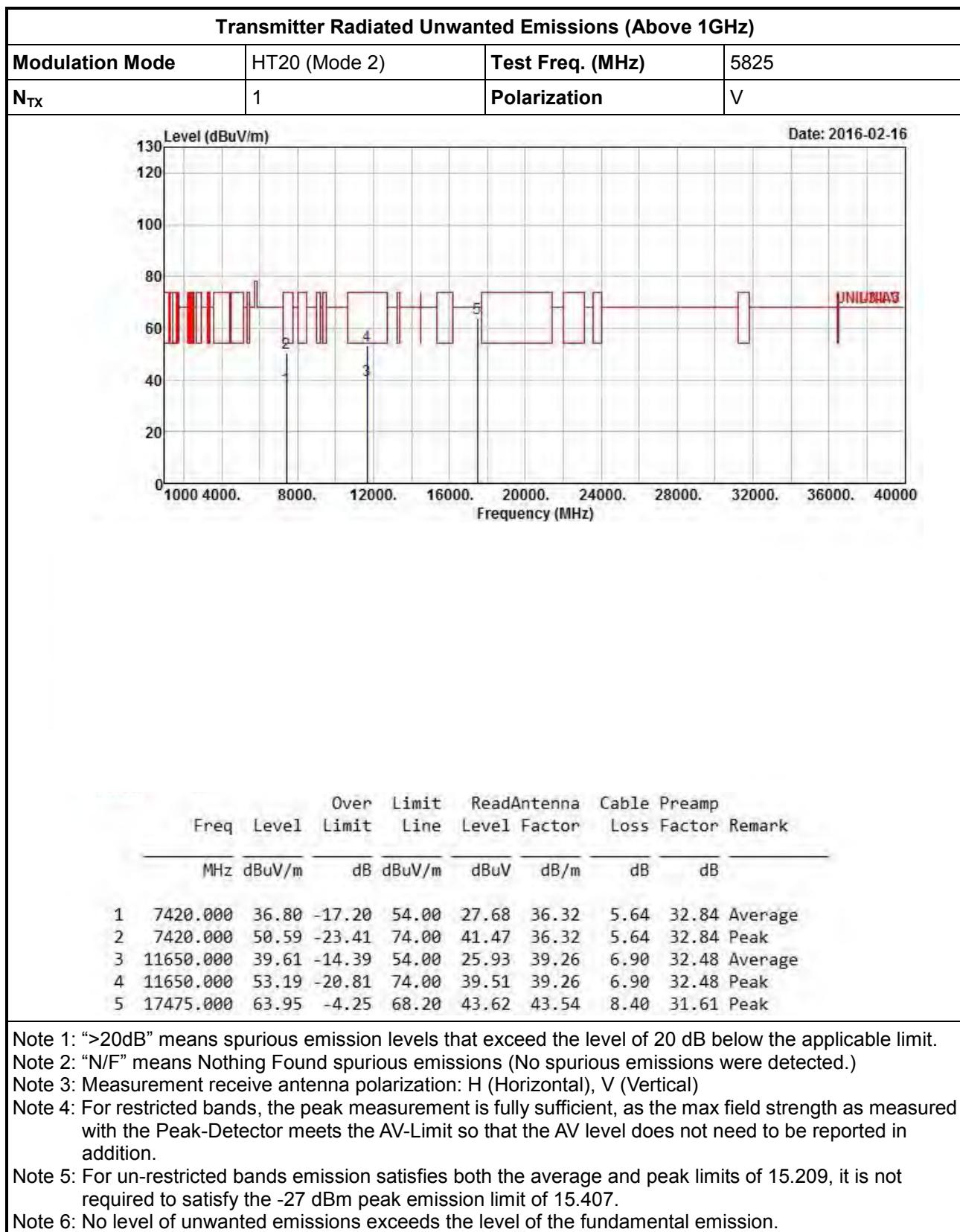


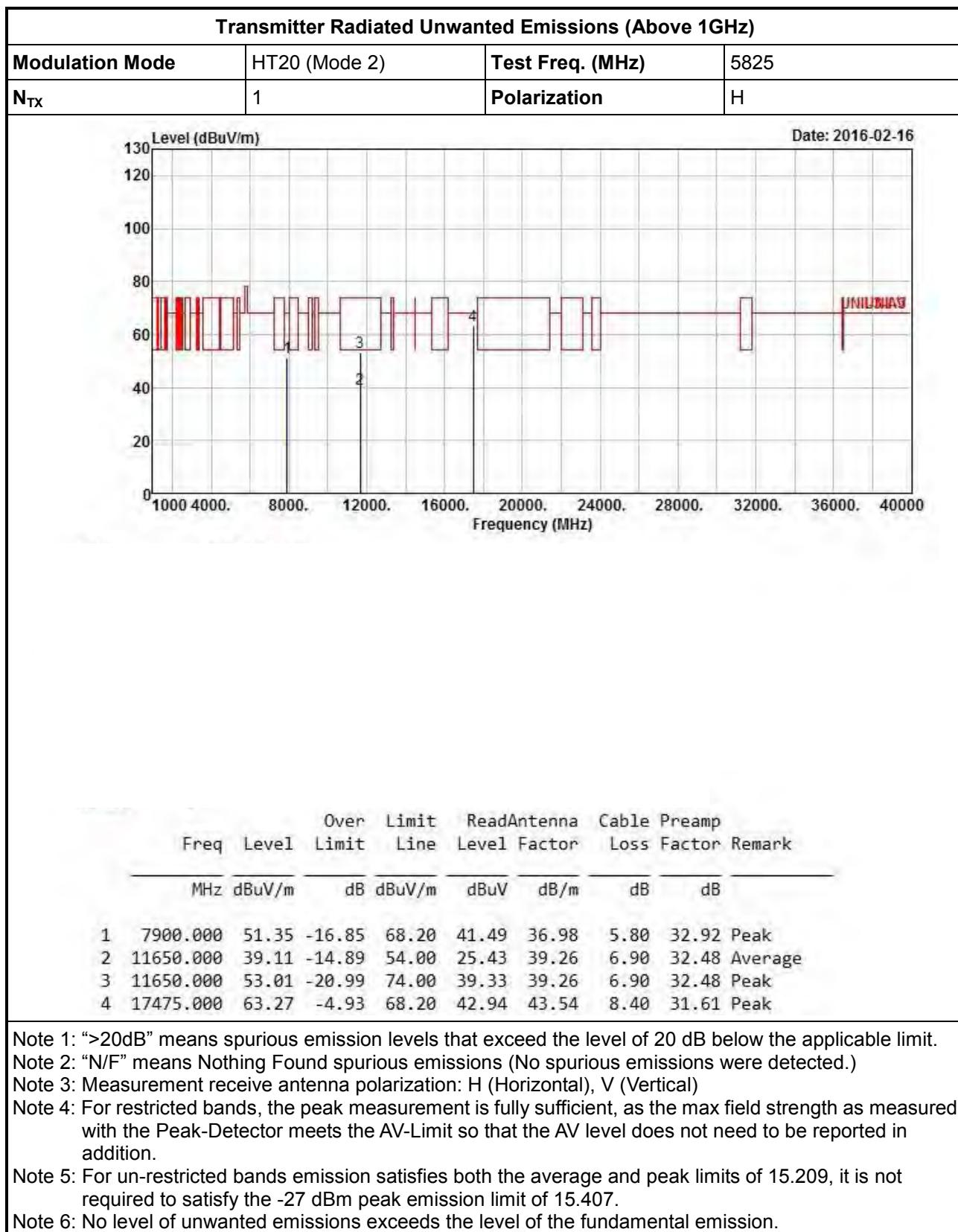


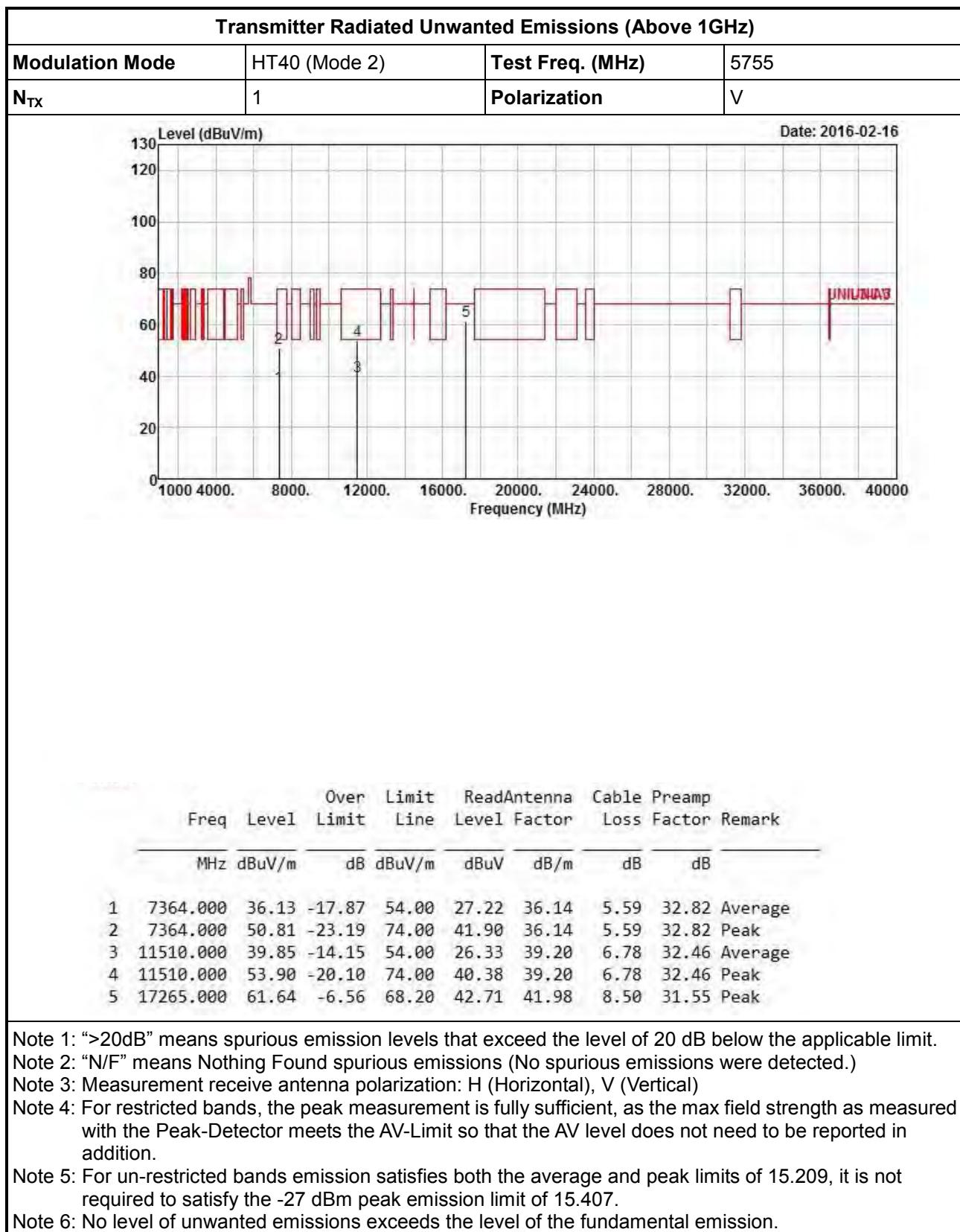


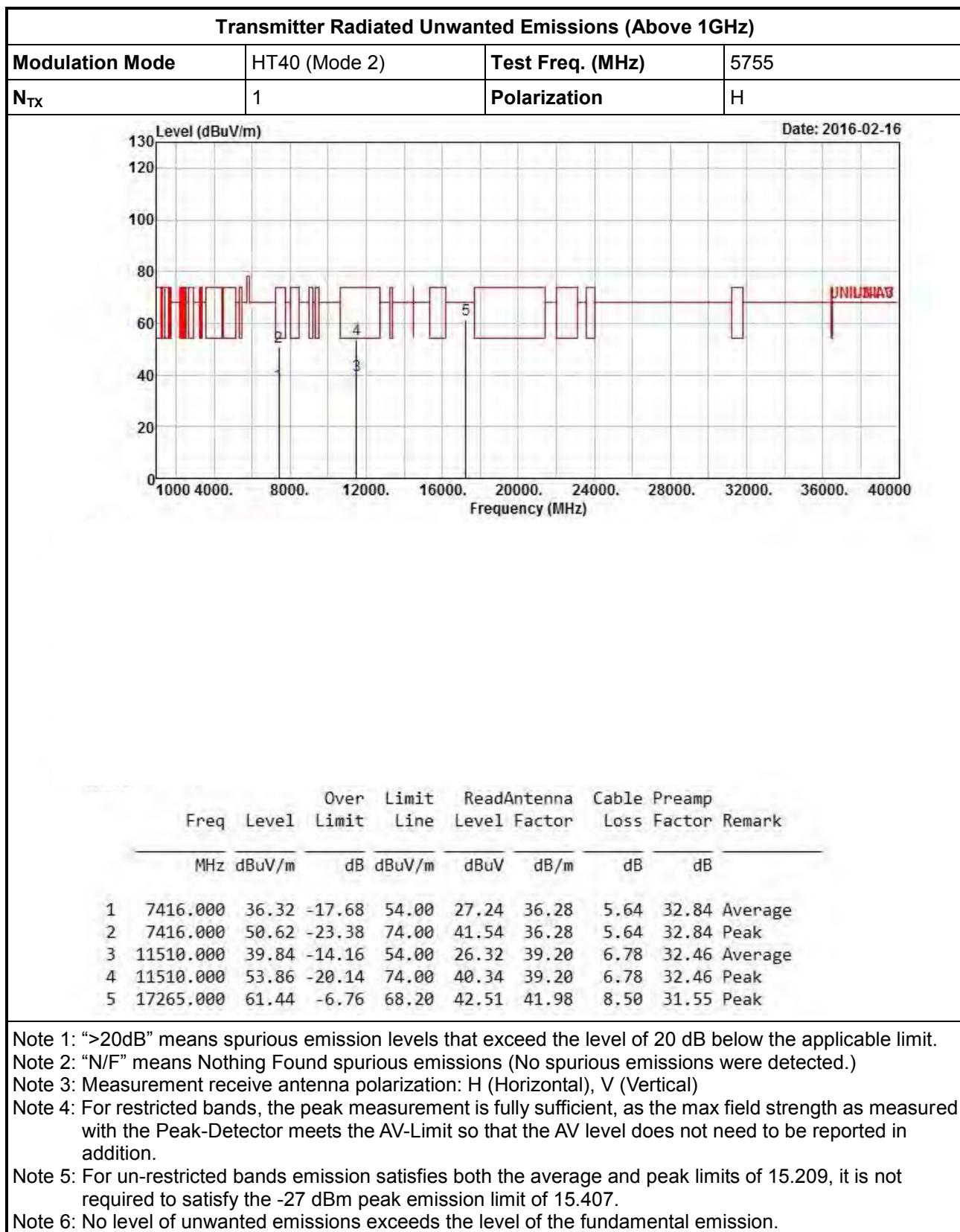


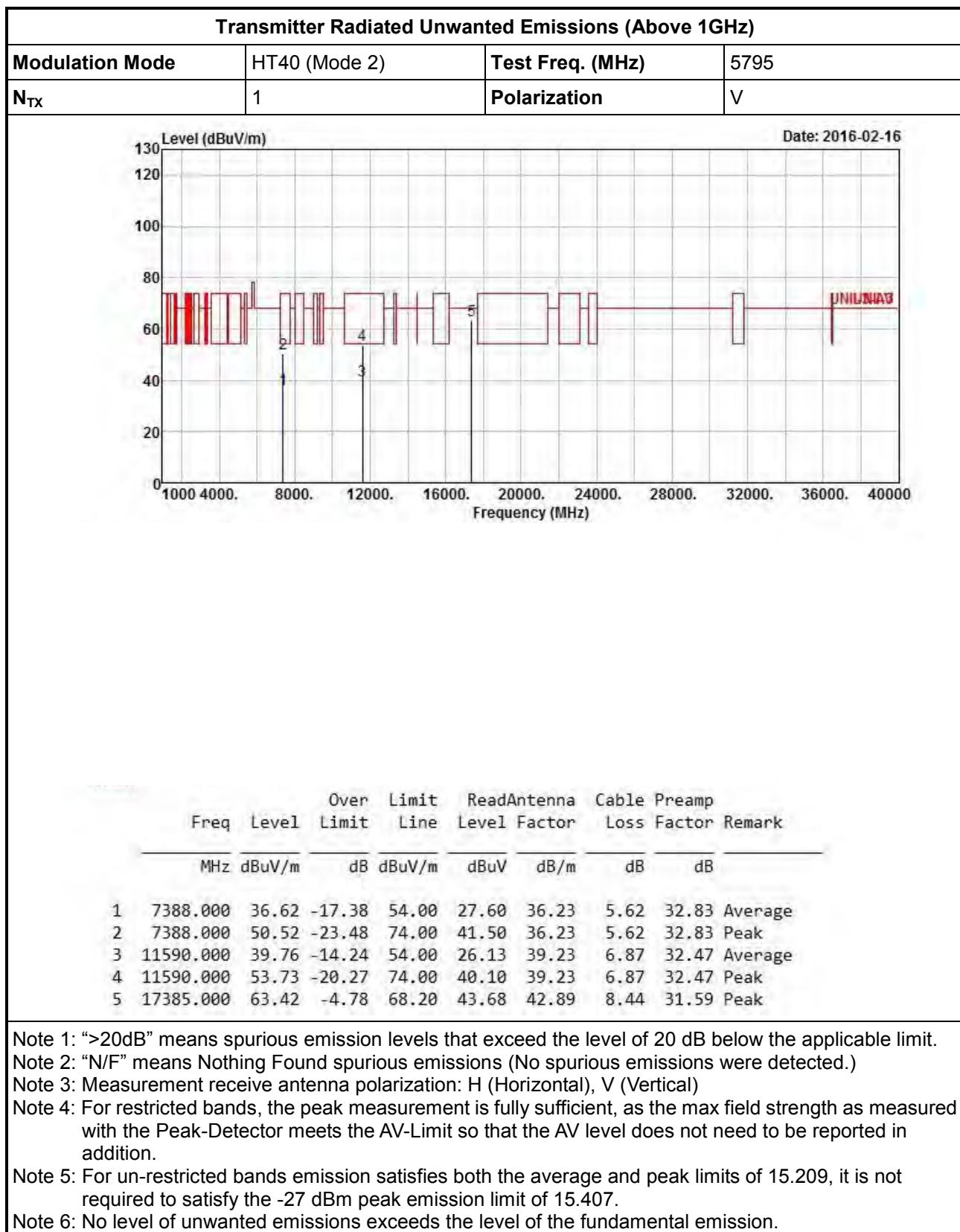


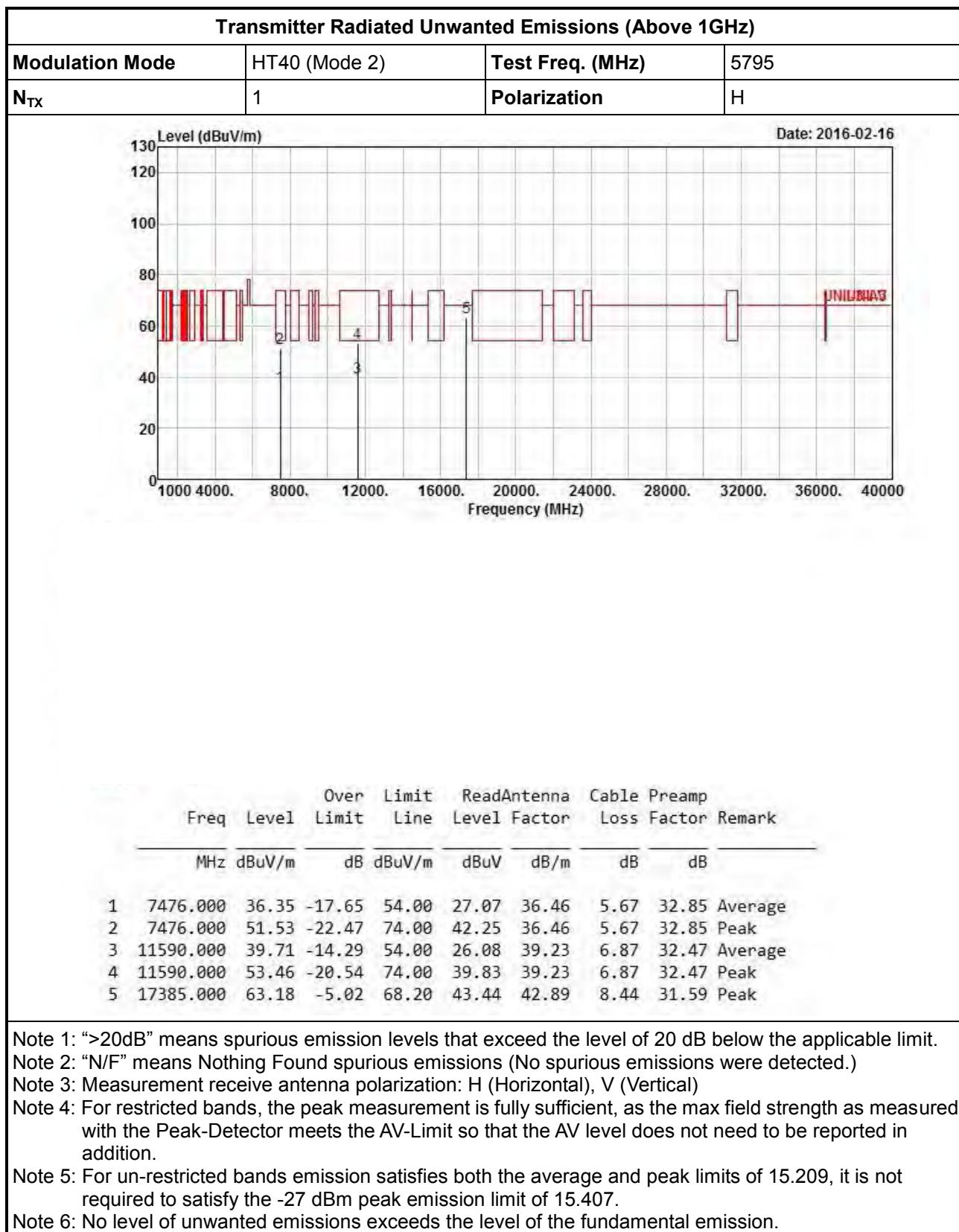


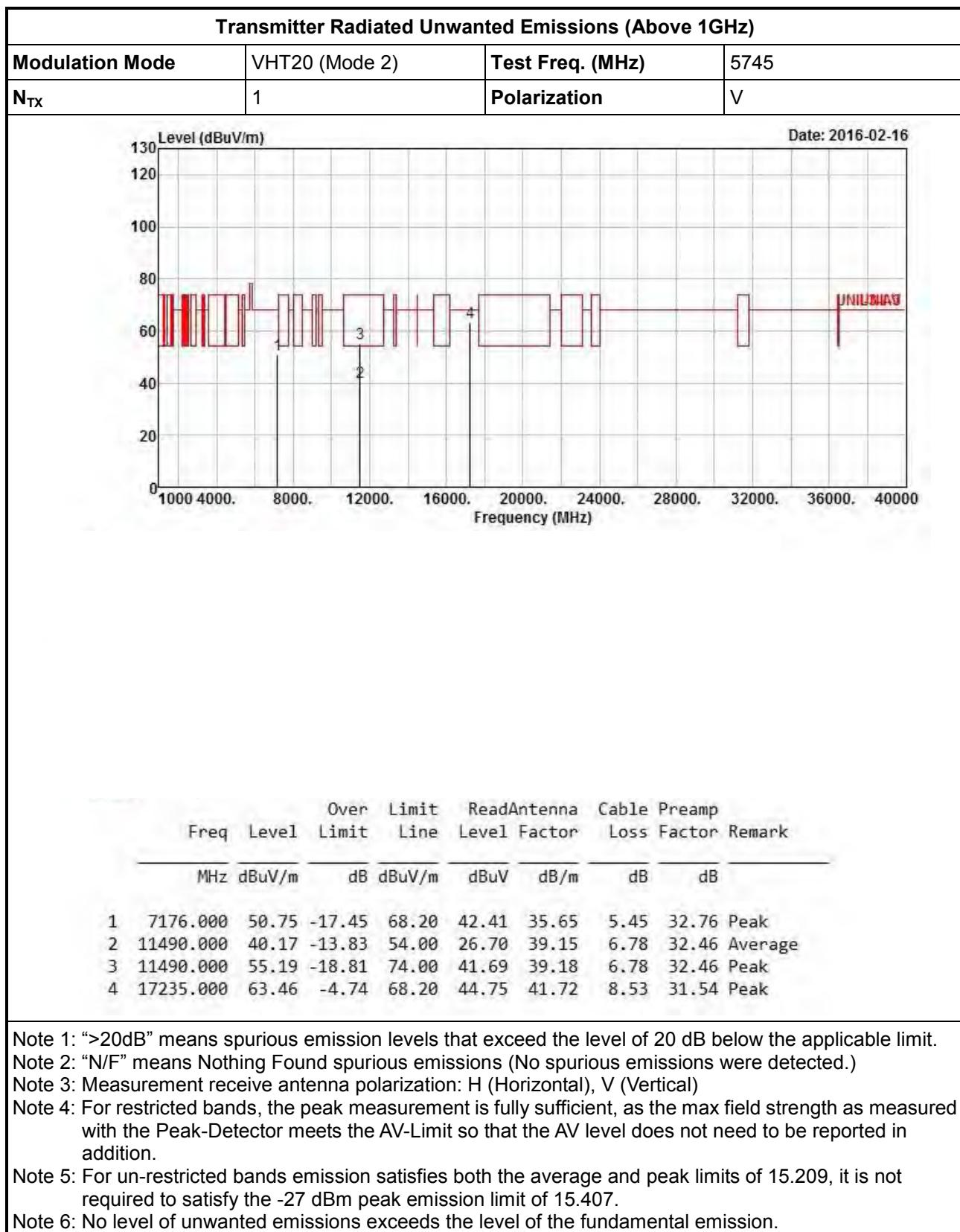


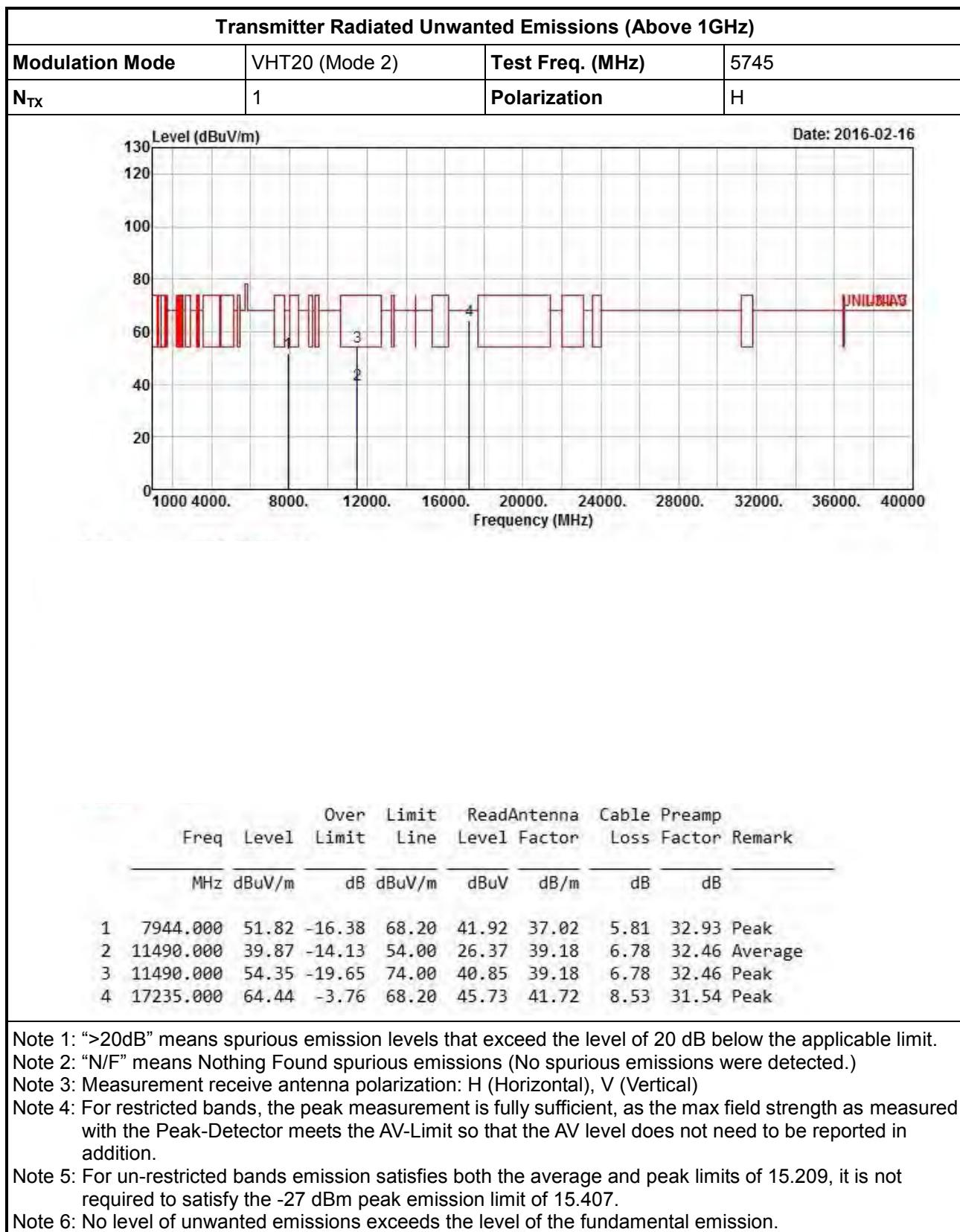


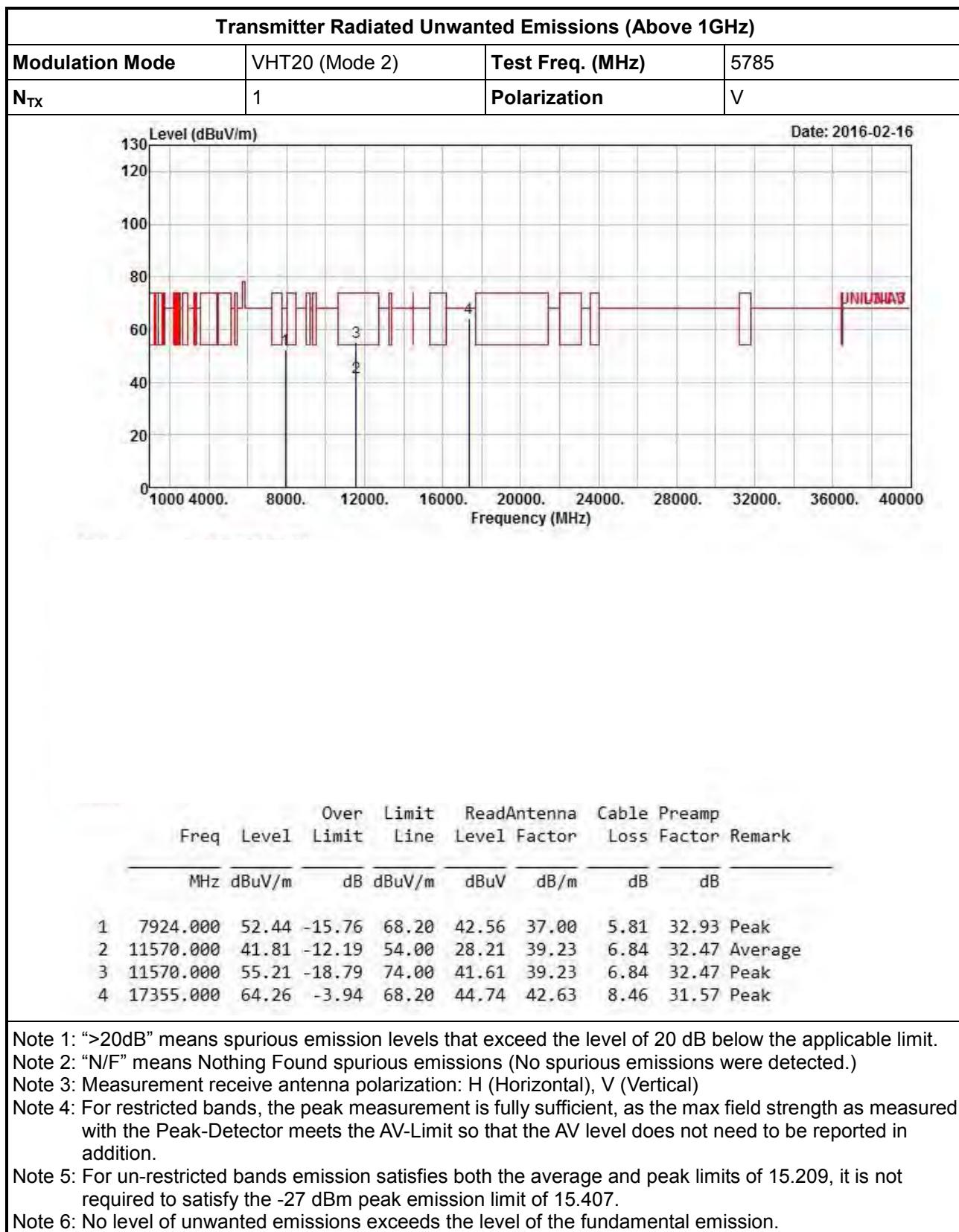


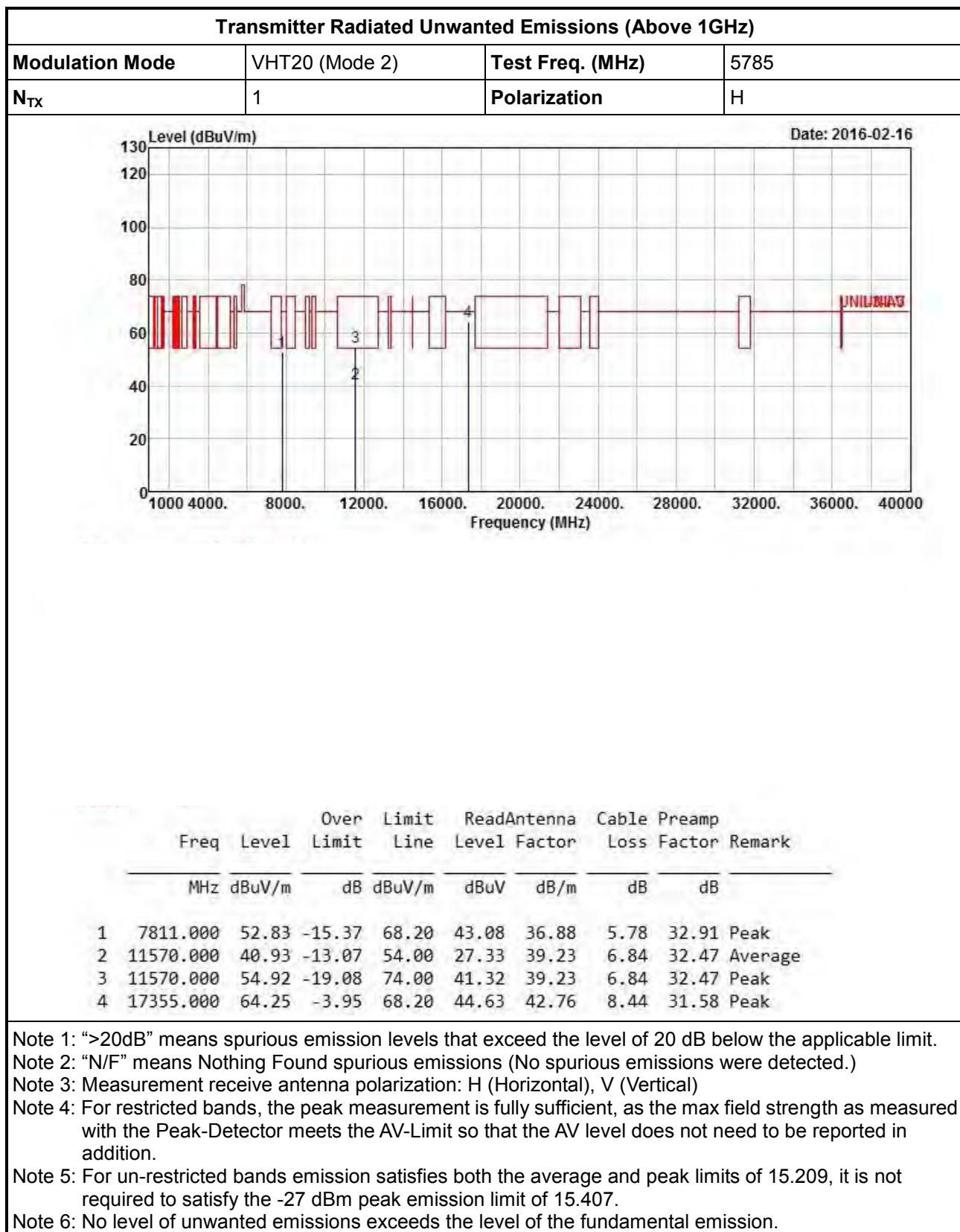


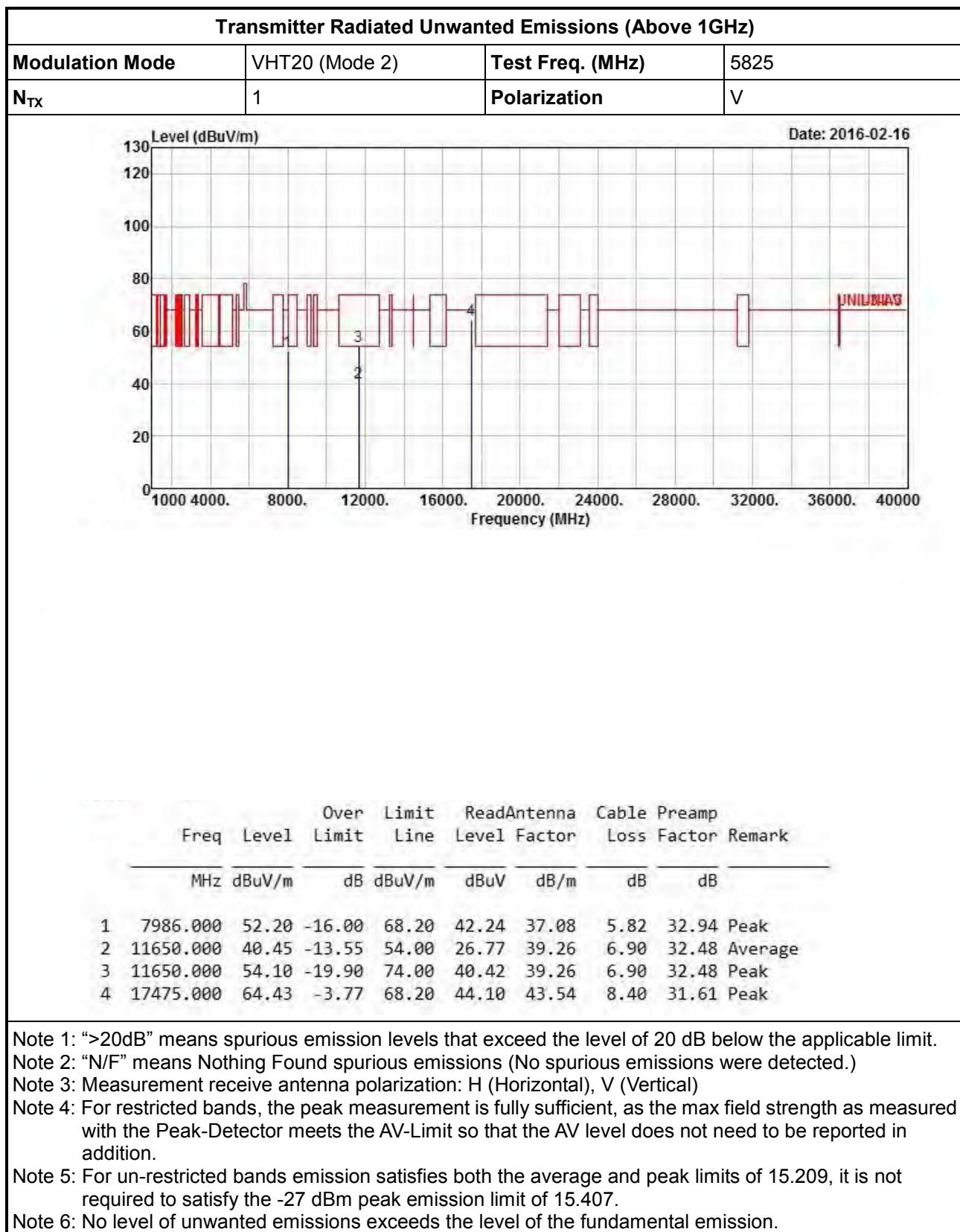


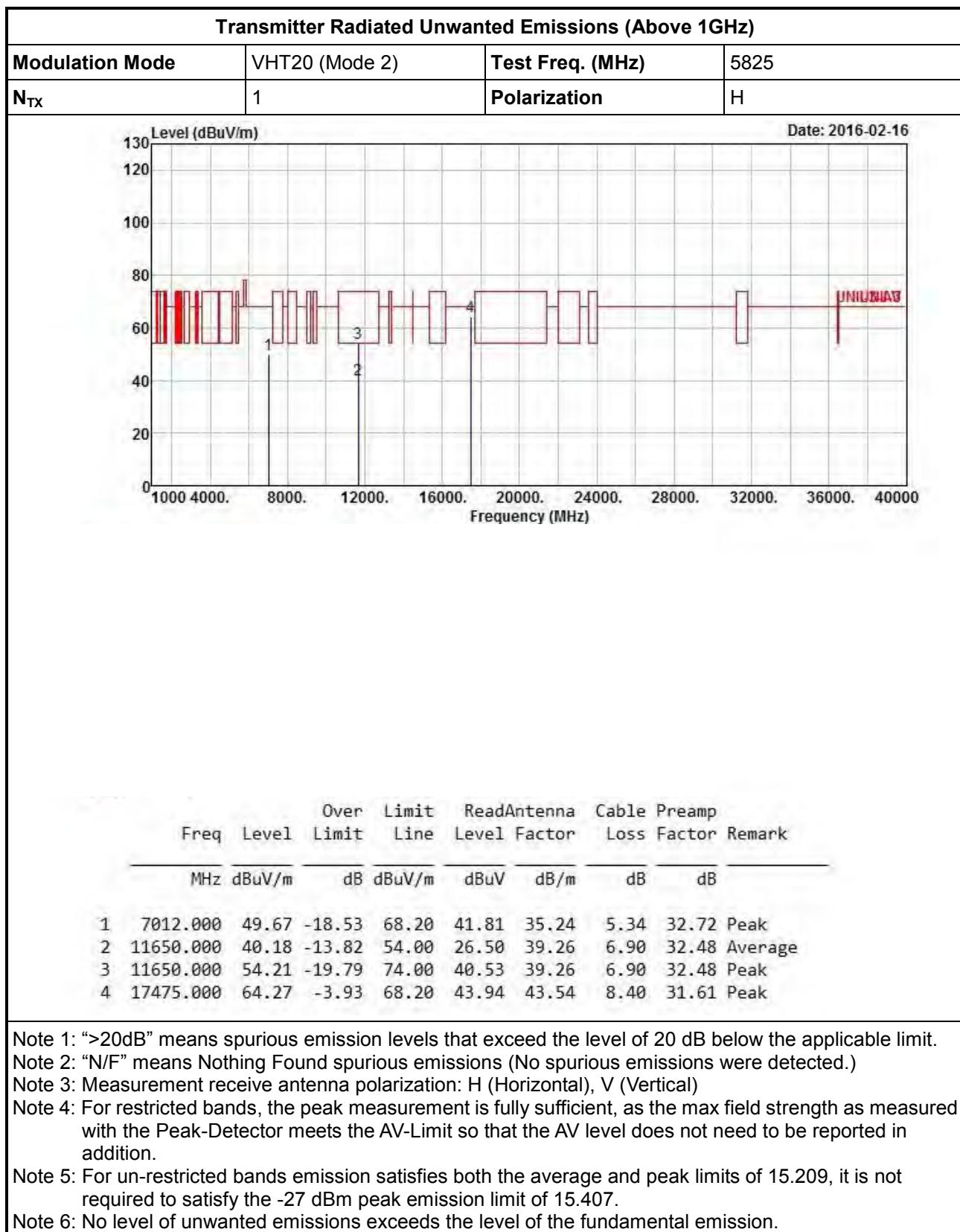


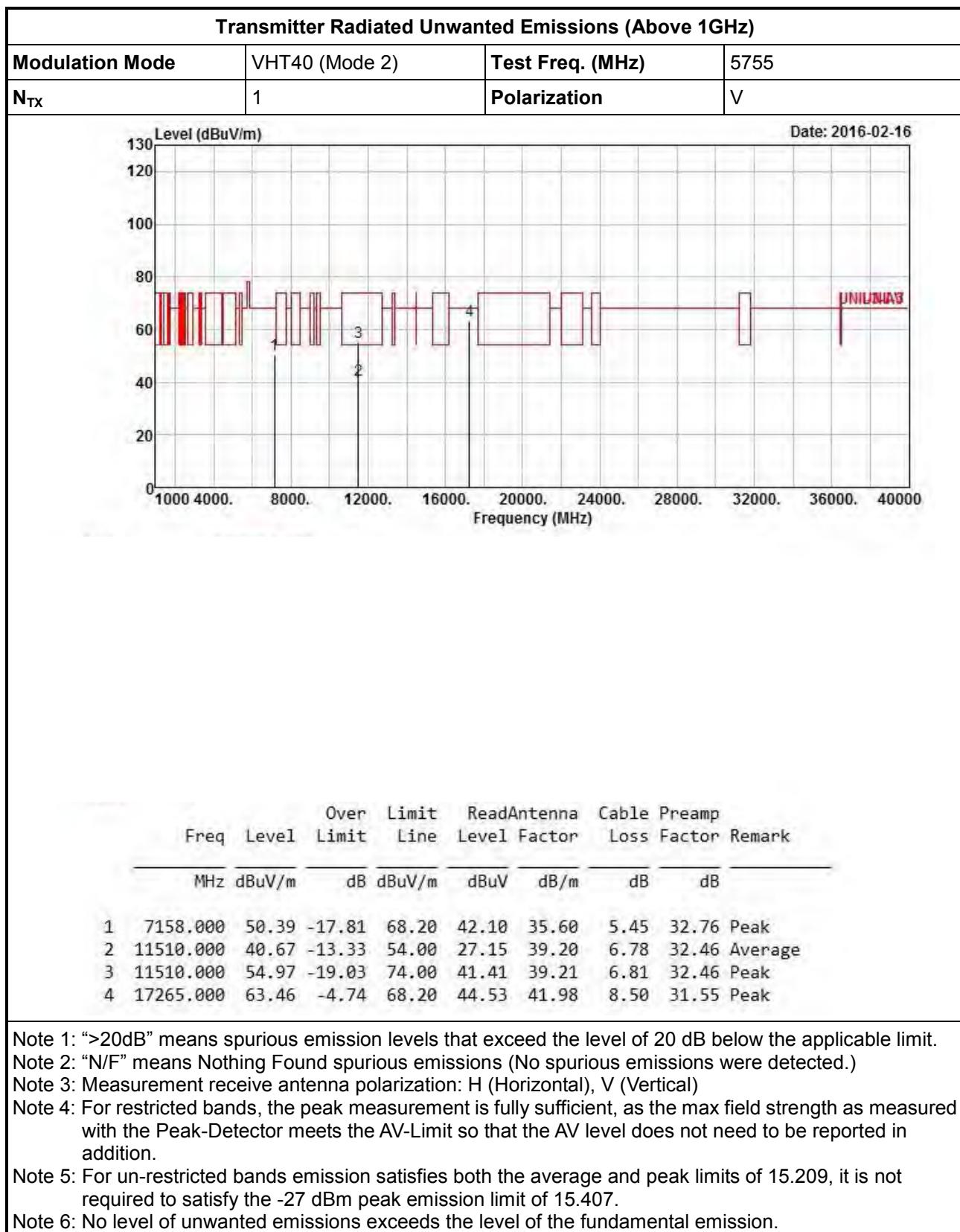


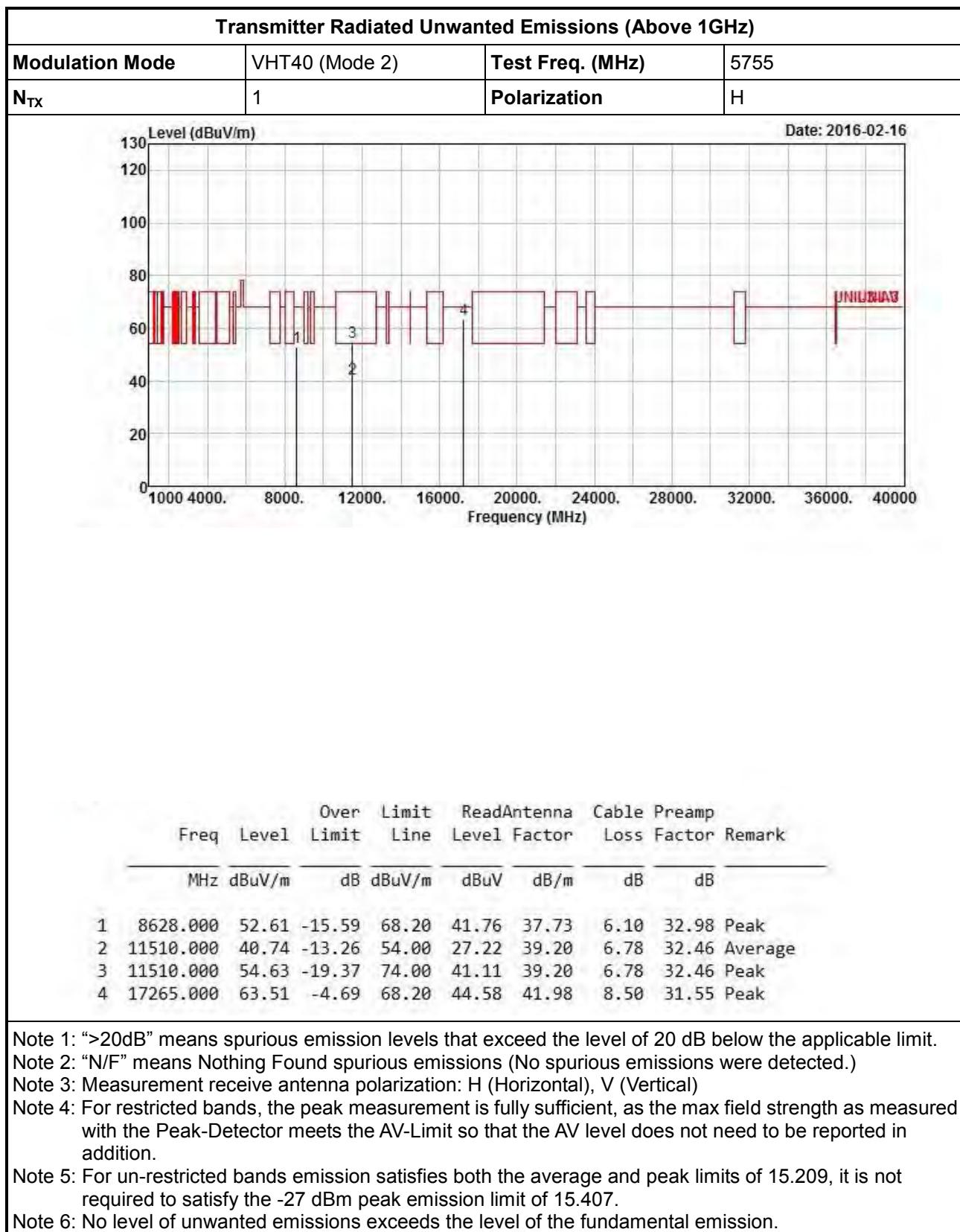


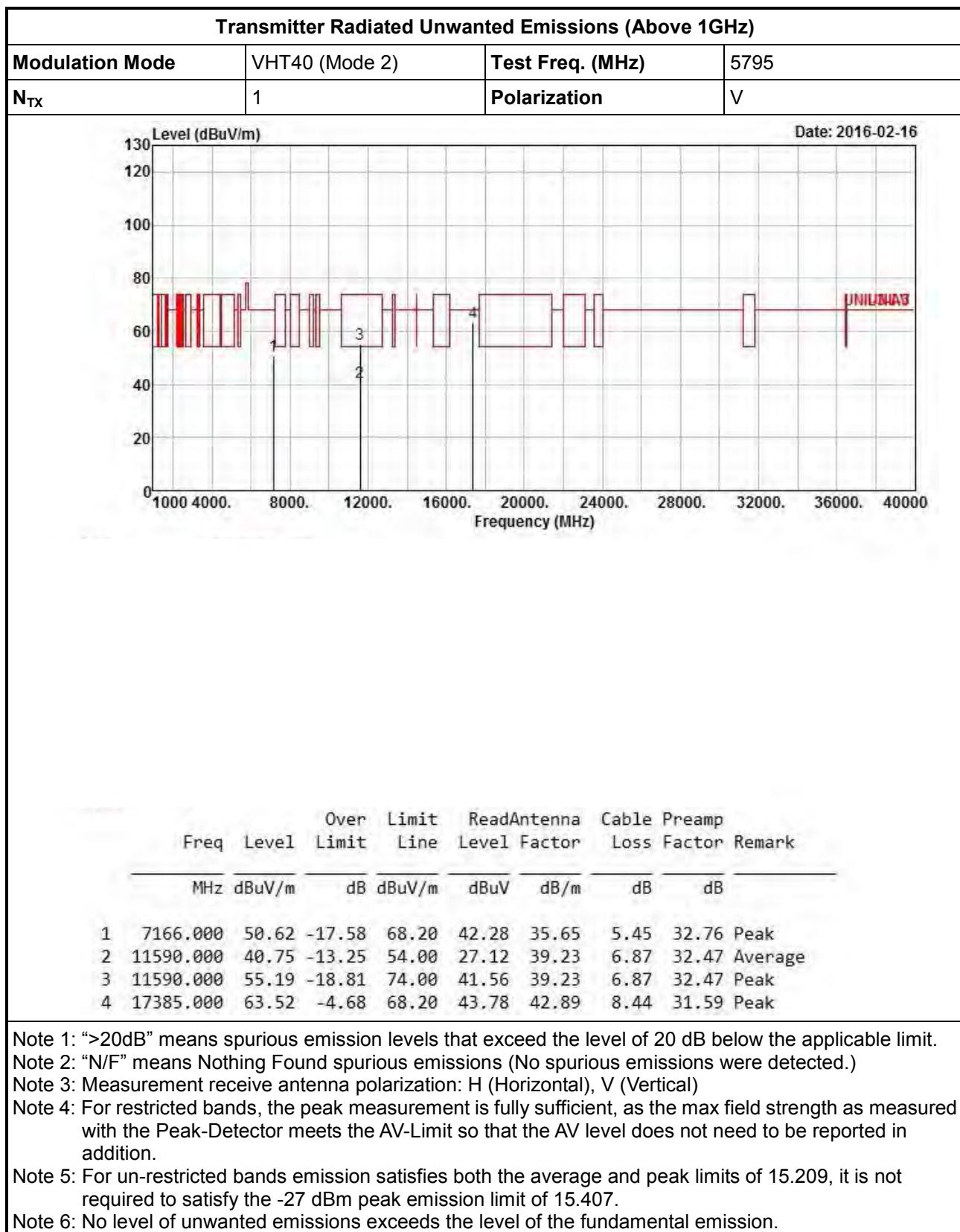


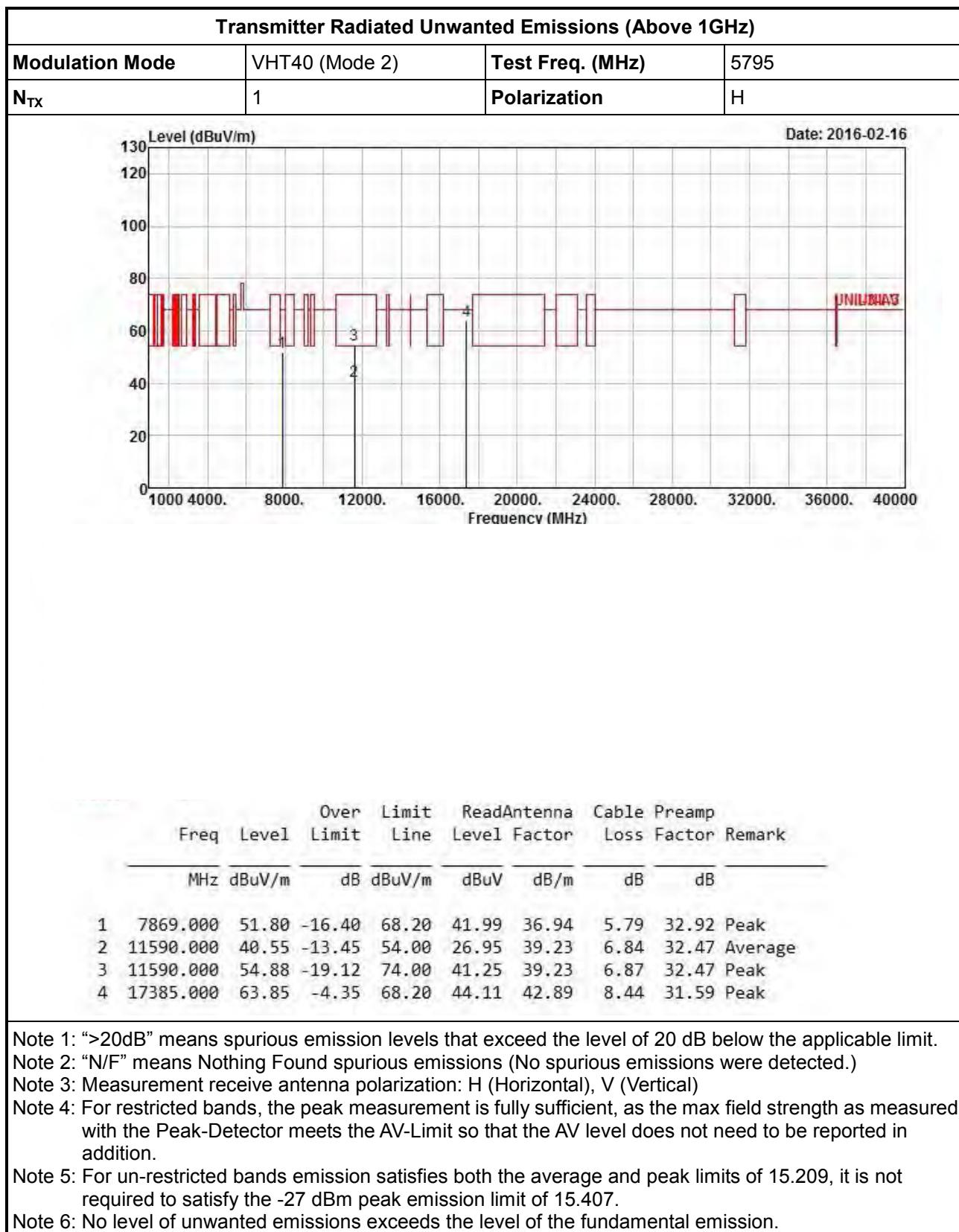


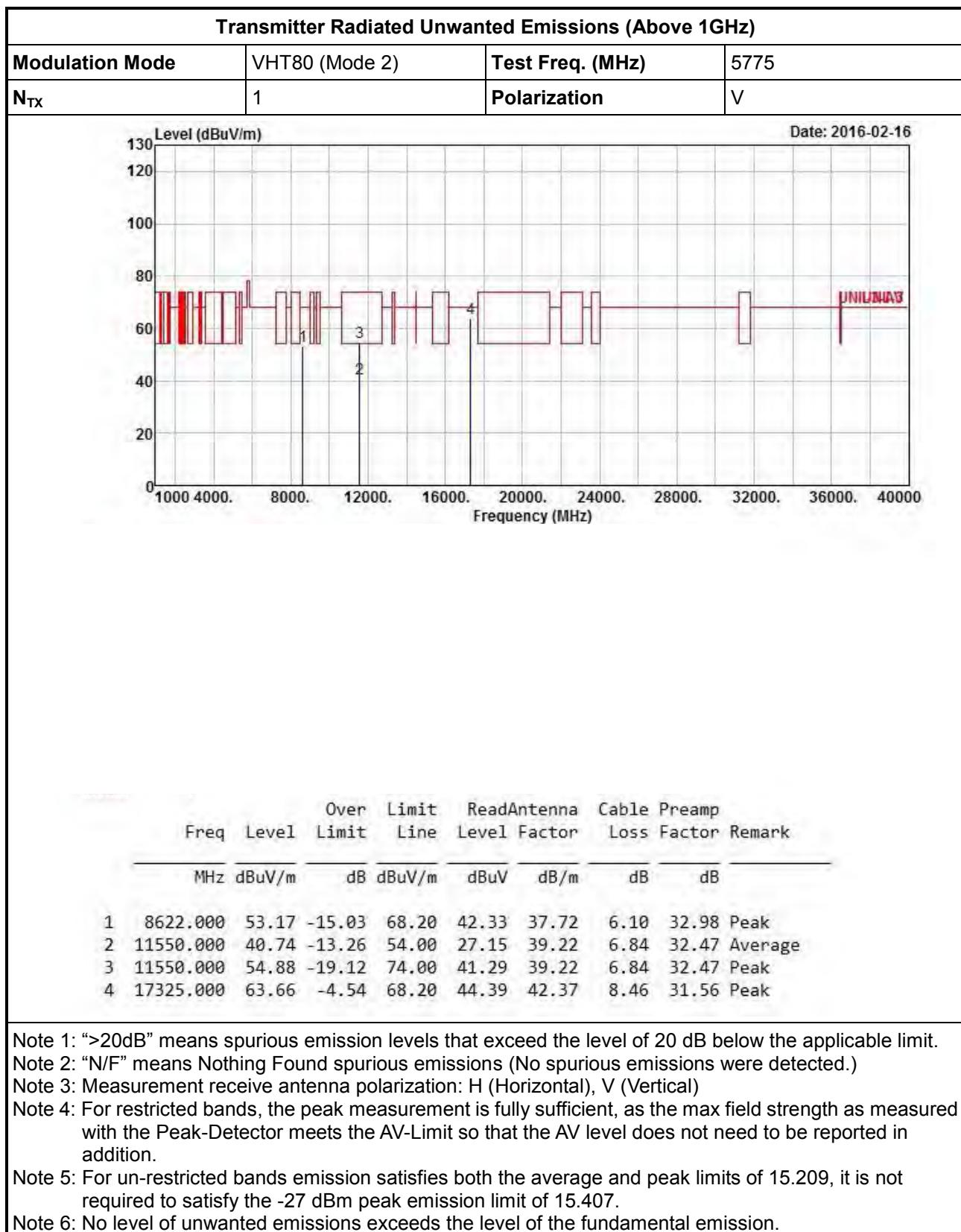


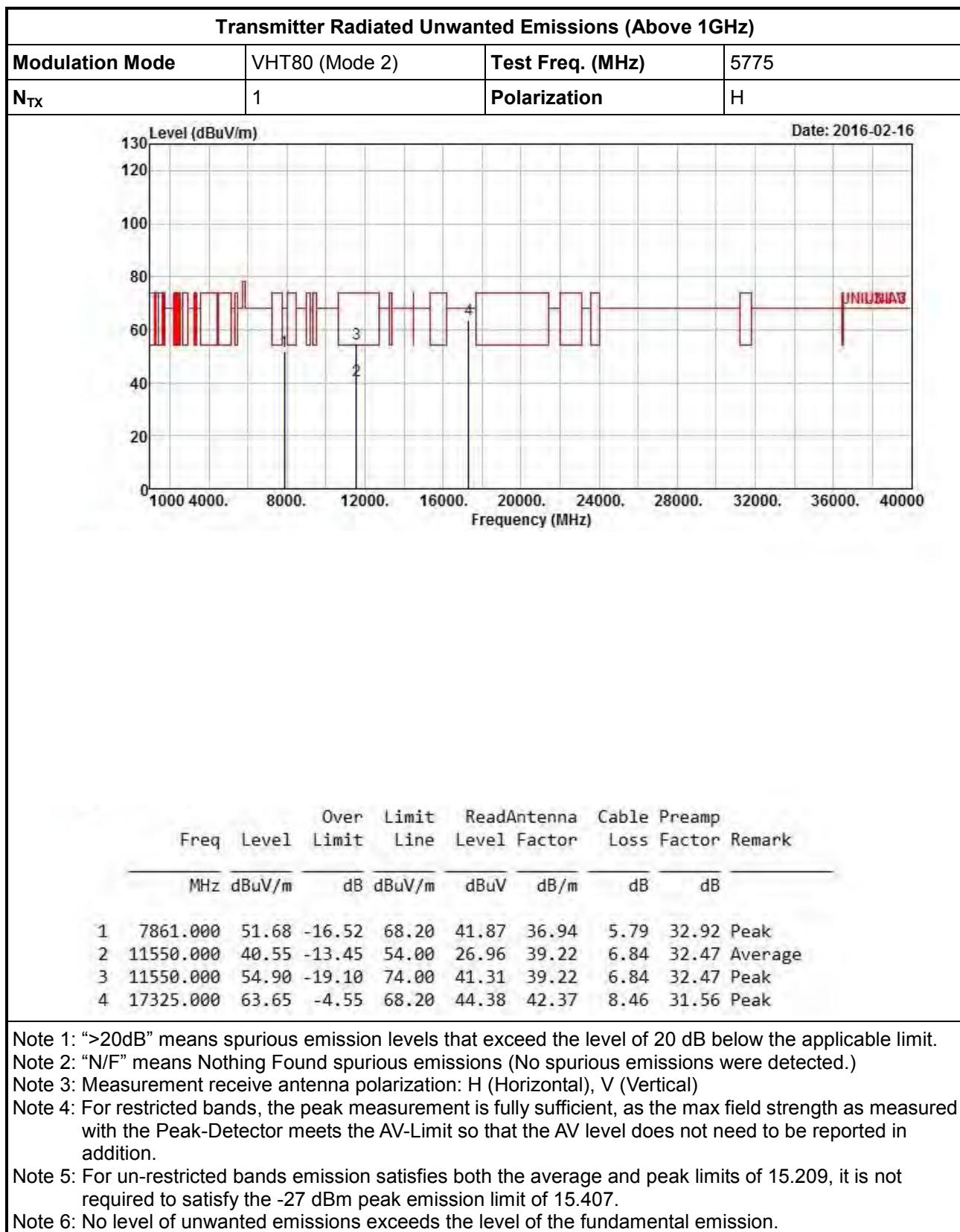


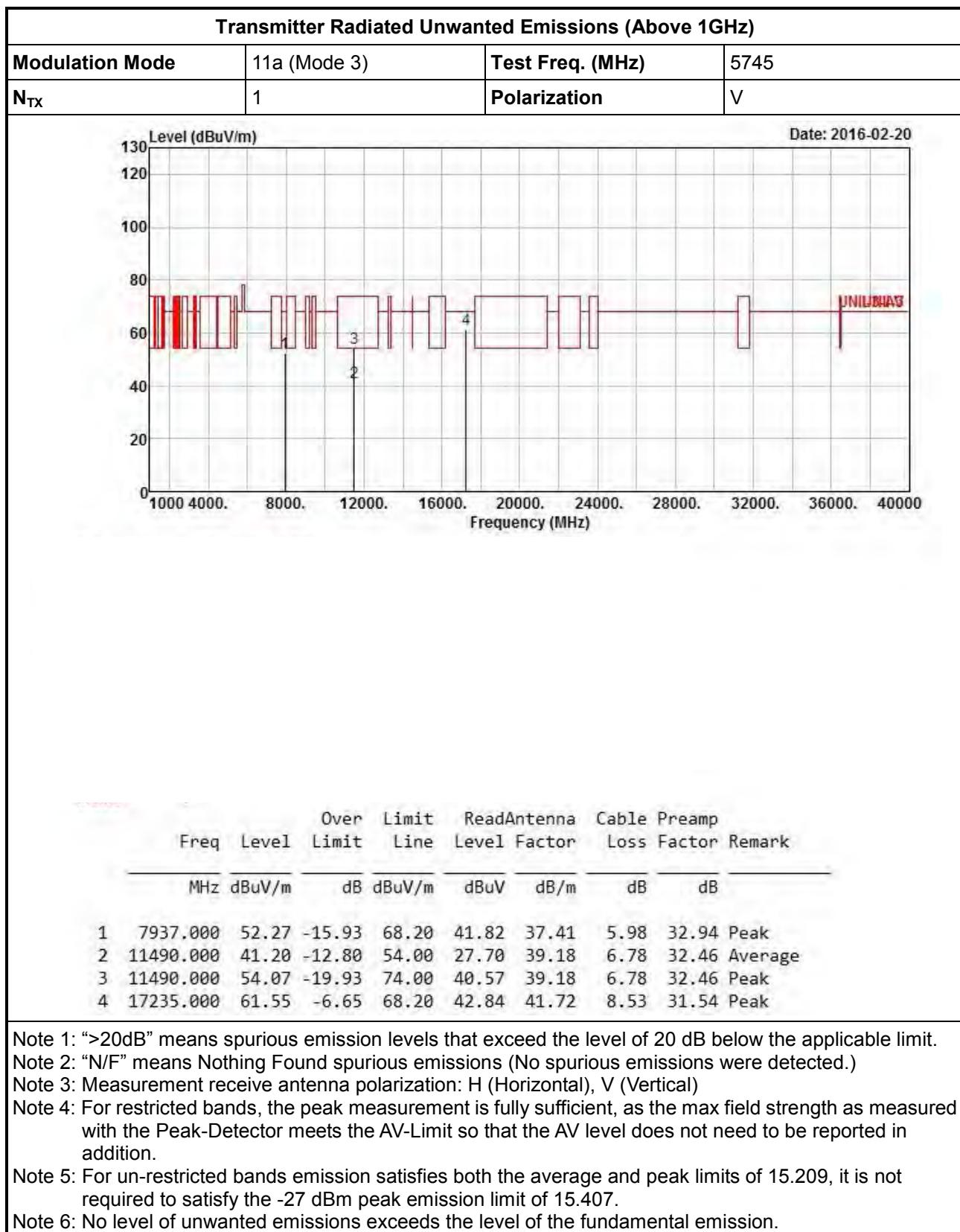












Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

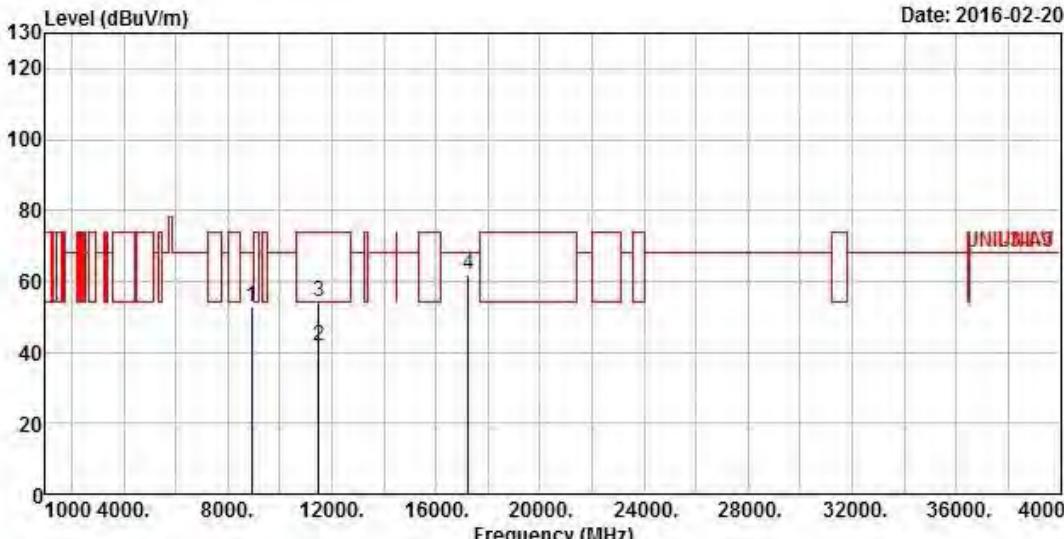
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

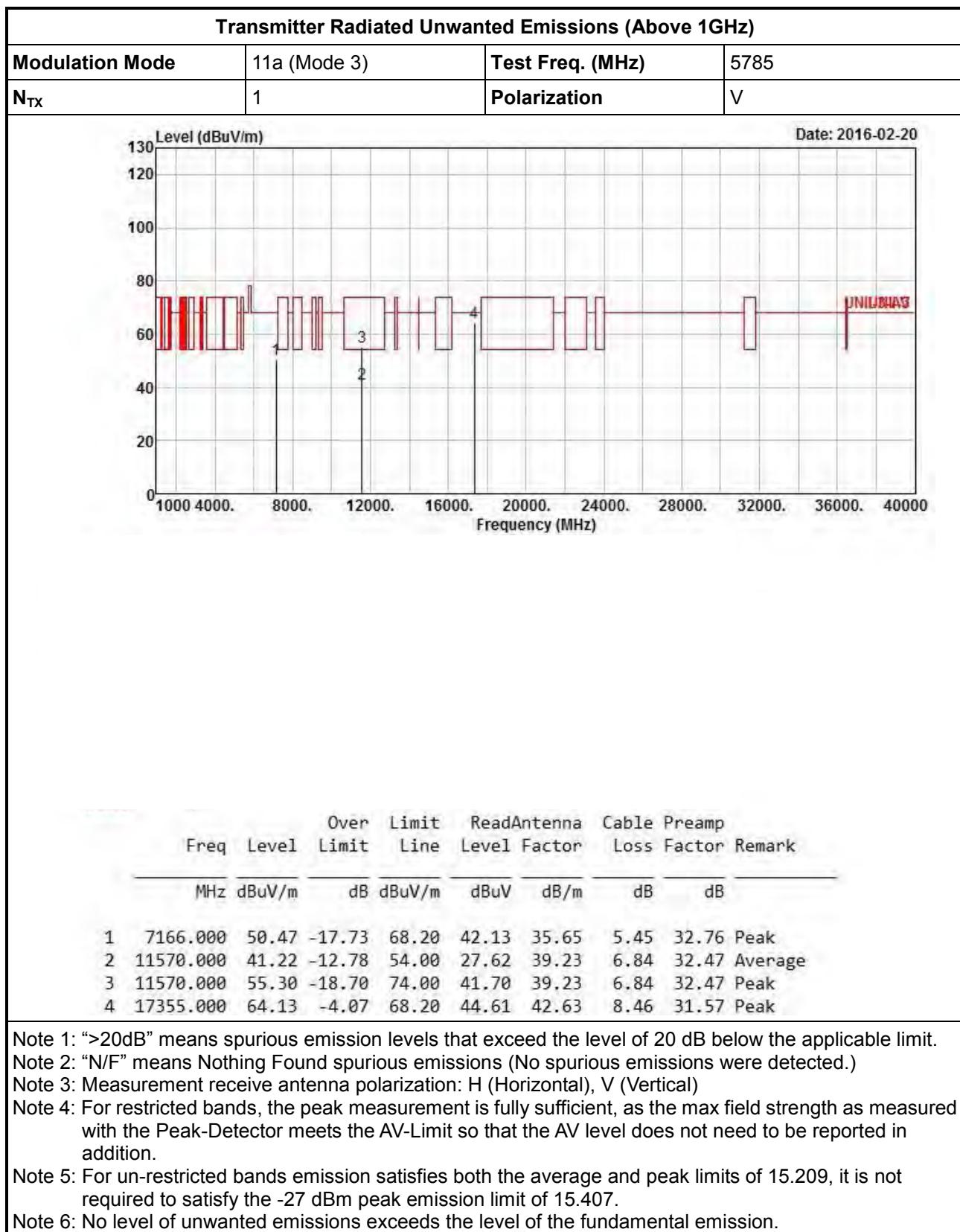
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

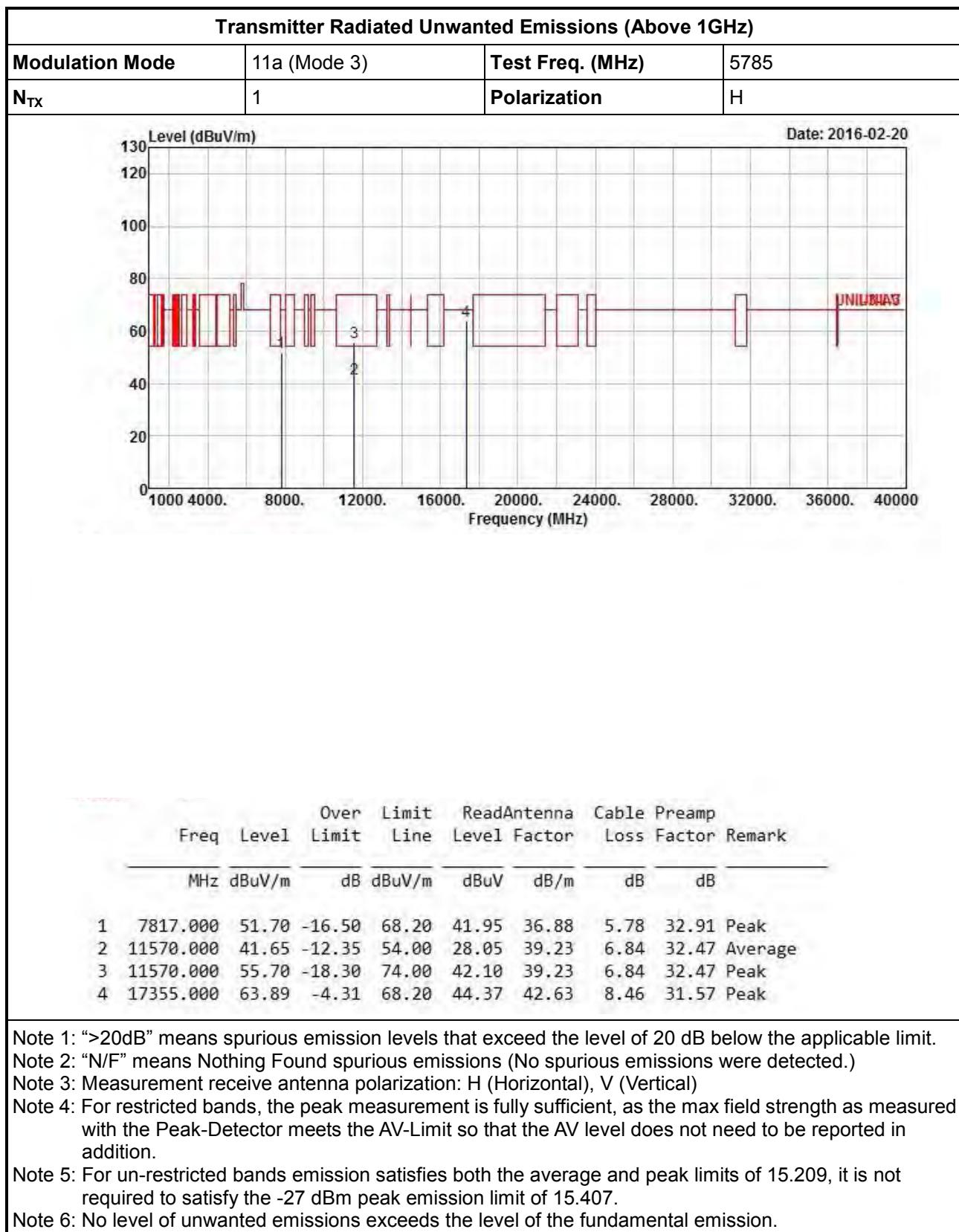
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

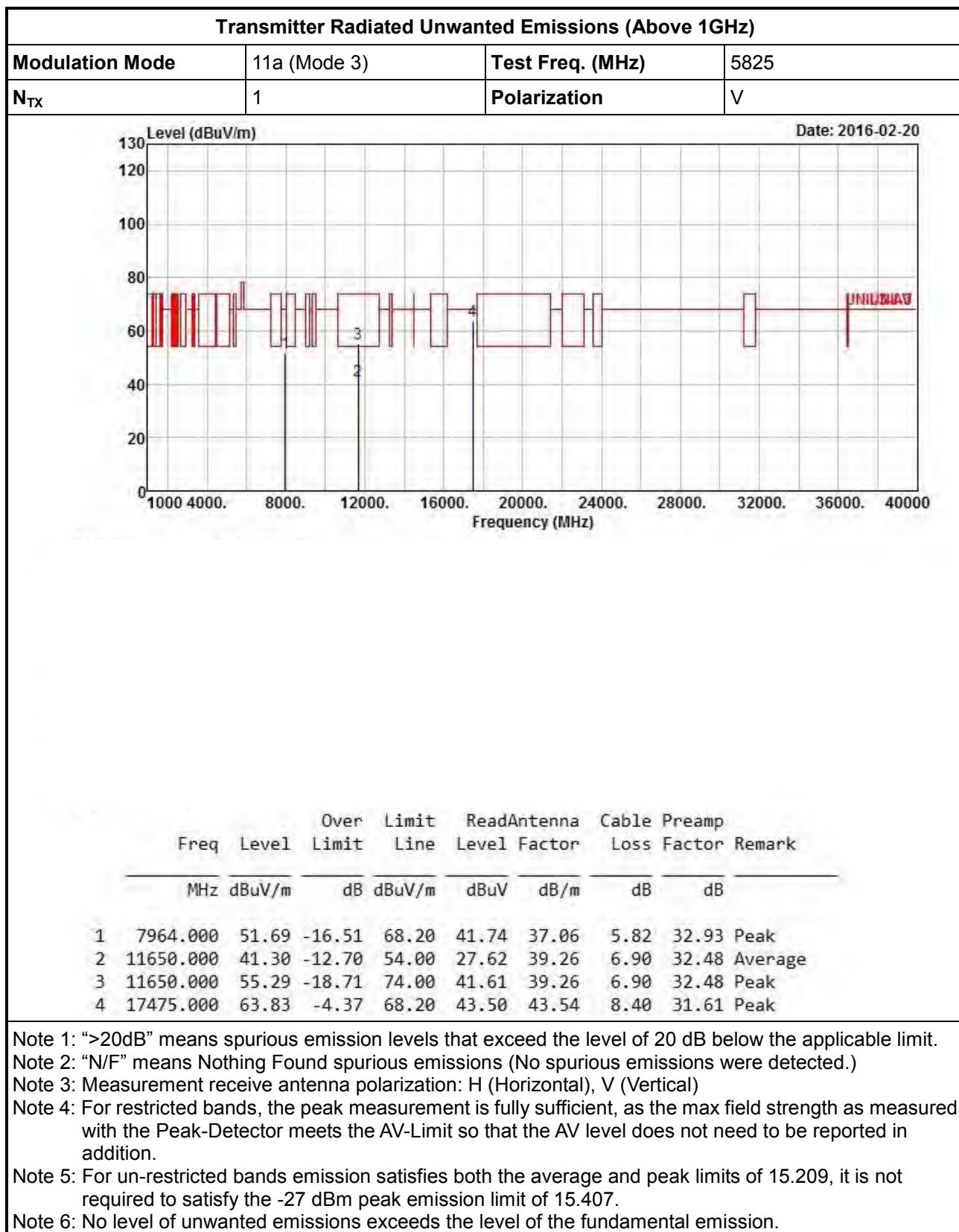


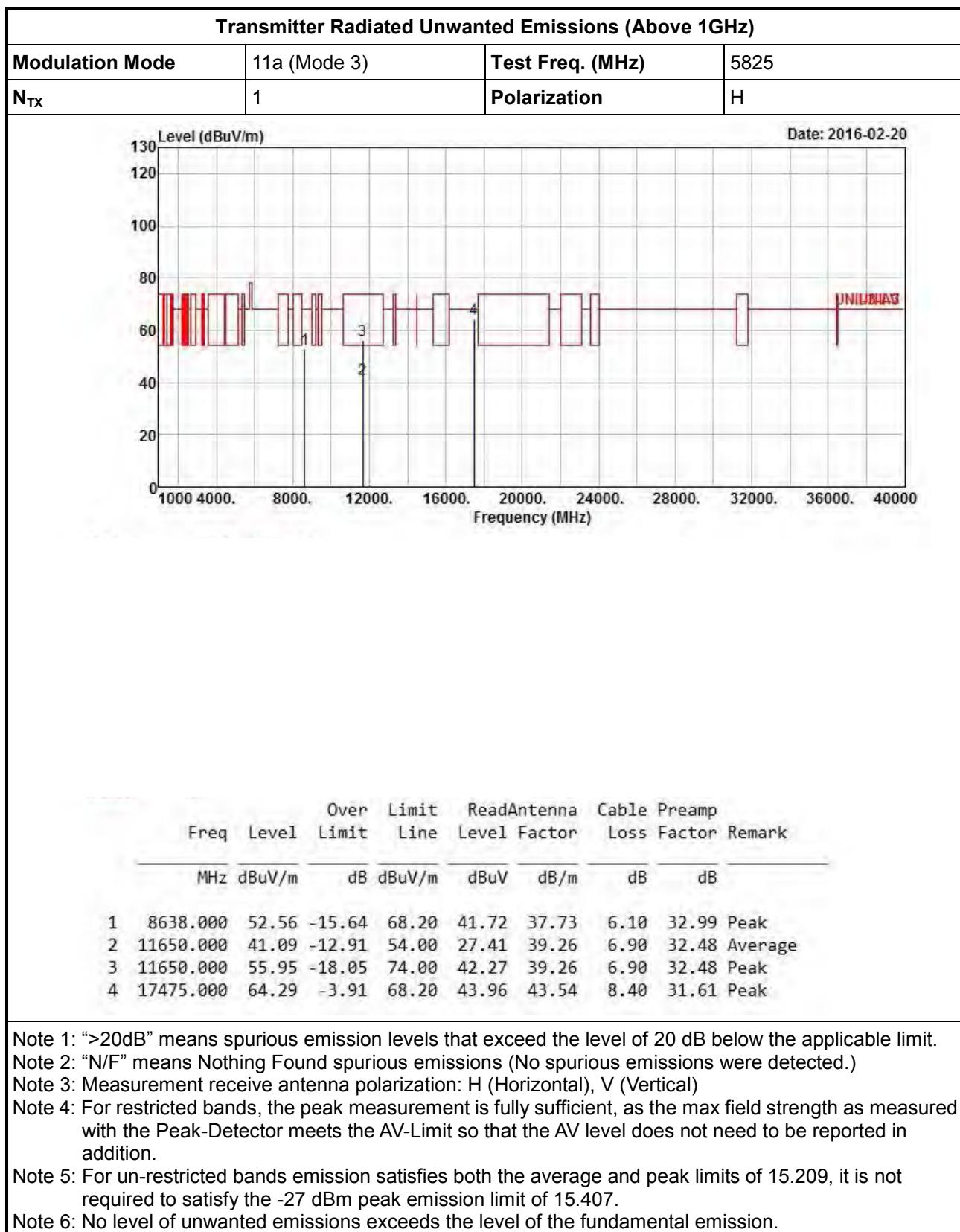
Transmitter Radiated Unwanted Emissions (Above 1GHz)

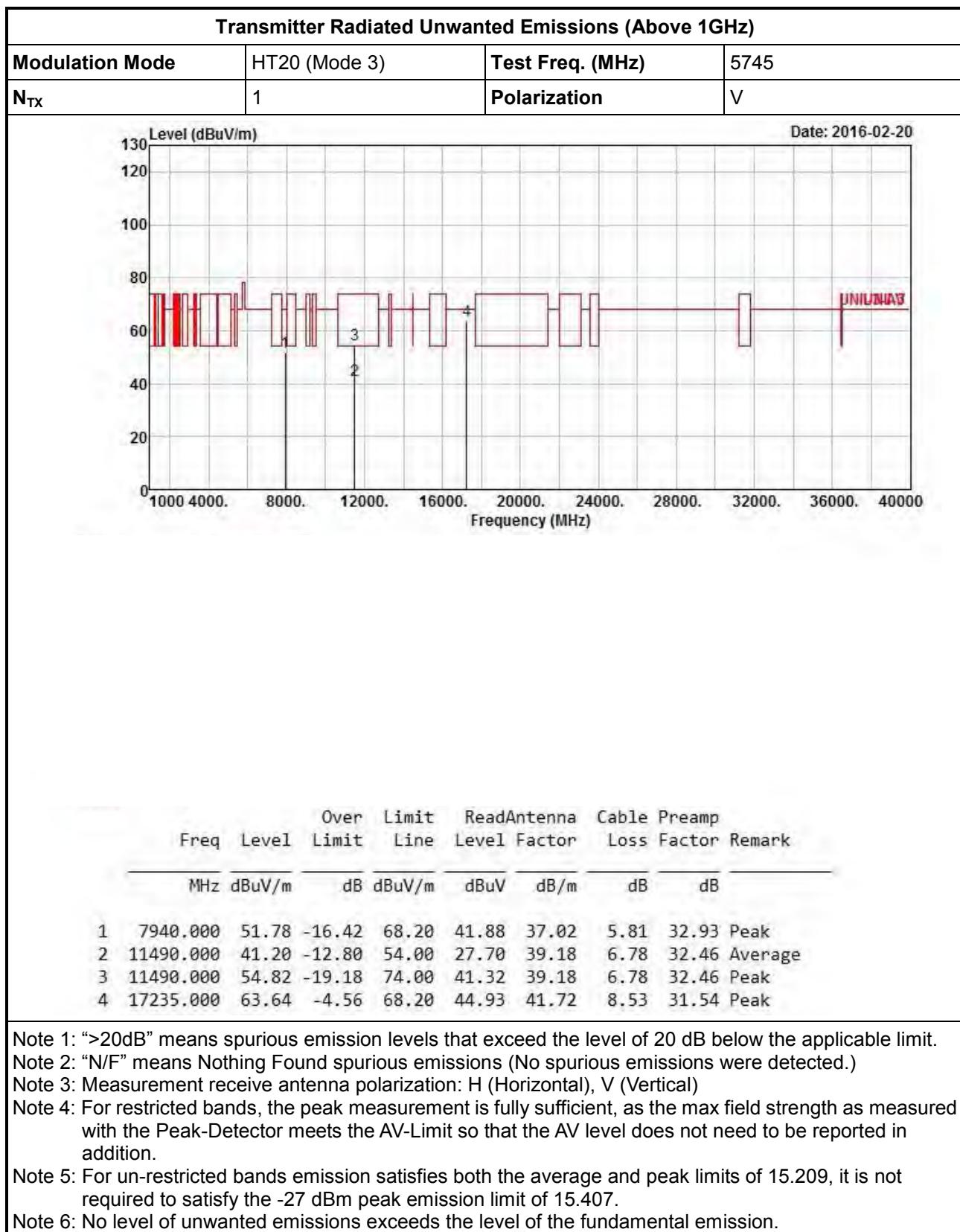
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N _{TX}	1	Polarization	H																																																				
			Date: 2016-02-20																																																				
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8904.000</td> <td>52.84</td> <td>-15.36</td> <td>68.20</td> <td>42.06</td> <td>37.78</td> <td>6.08</td> <td>33.08 Peak</td> </tr> <tr> <td>2</td> <td>11490.000</td> <td>41.51</td> <td>-12.49</td> <td>54.00</td> <td>28.01</td> <td>39.18</td> <td>6.78</td> <td>32.46 Average</td> </tr> <tr> <td>3</td> <td>11490.000</td> <td>54.22</td> <td>-19.78</td> <td>74.00</td> <td>40.72</td> <td>39.18</td> <td>6.78</td> <td>32.46 Peak</td> </tr> <tr> <td>4</td> <td>17235.000</td> <td>61.75</td> <td>-6.45</td> <td>68.20</td> <td>43.04</td> <td>41.72</td> <td>8.53</td> <td>31.54 Peak</td> </tr> </tbody> </table>				Freq	Level	Over Limit	Limit	Read	Antenna	Cable	Preamp	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1	8904.000	52.84	-15.36	68.20	42.06	37.78	6.08	33.08 Peak	2	11490.000	41.51	-12.49	54.00	28.01	39.18	6.78	32.46 Average	3	11490.000	54.22	-19.78	74.00	40.72	39.18	6.78	32.46 Peak	4	17235.000	61.75	-6.45	68.20	43.04	41.72	8.53	31.54 Peak
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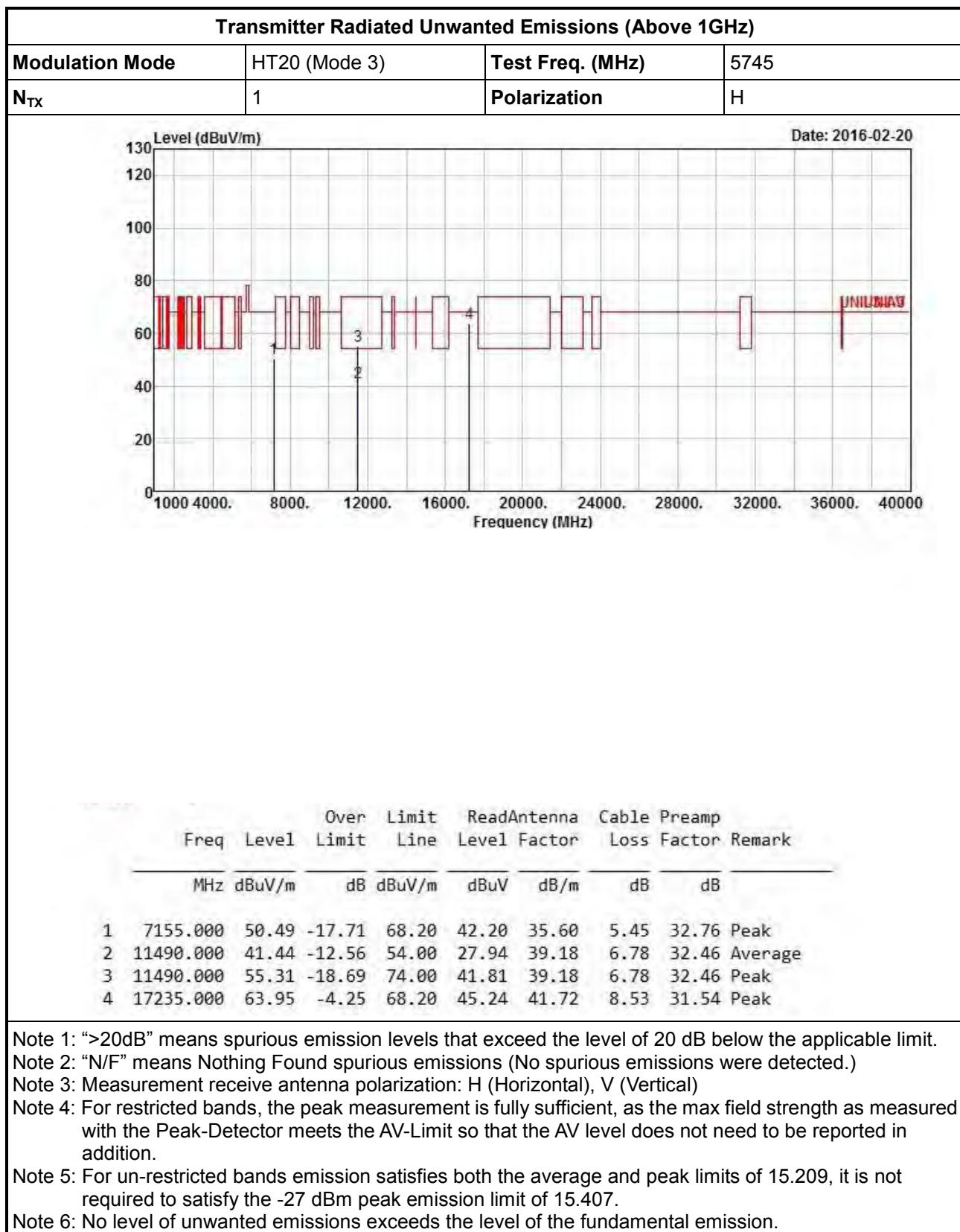


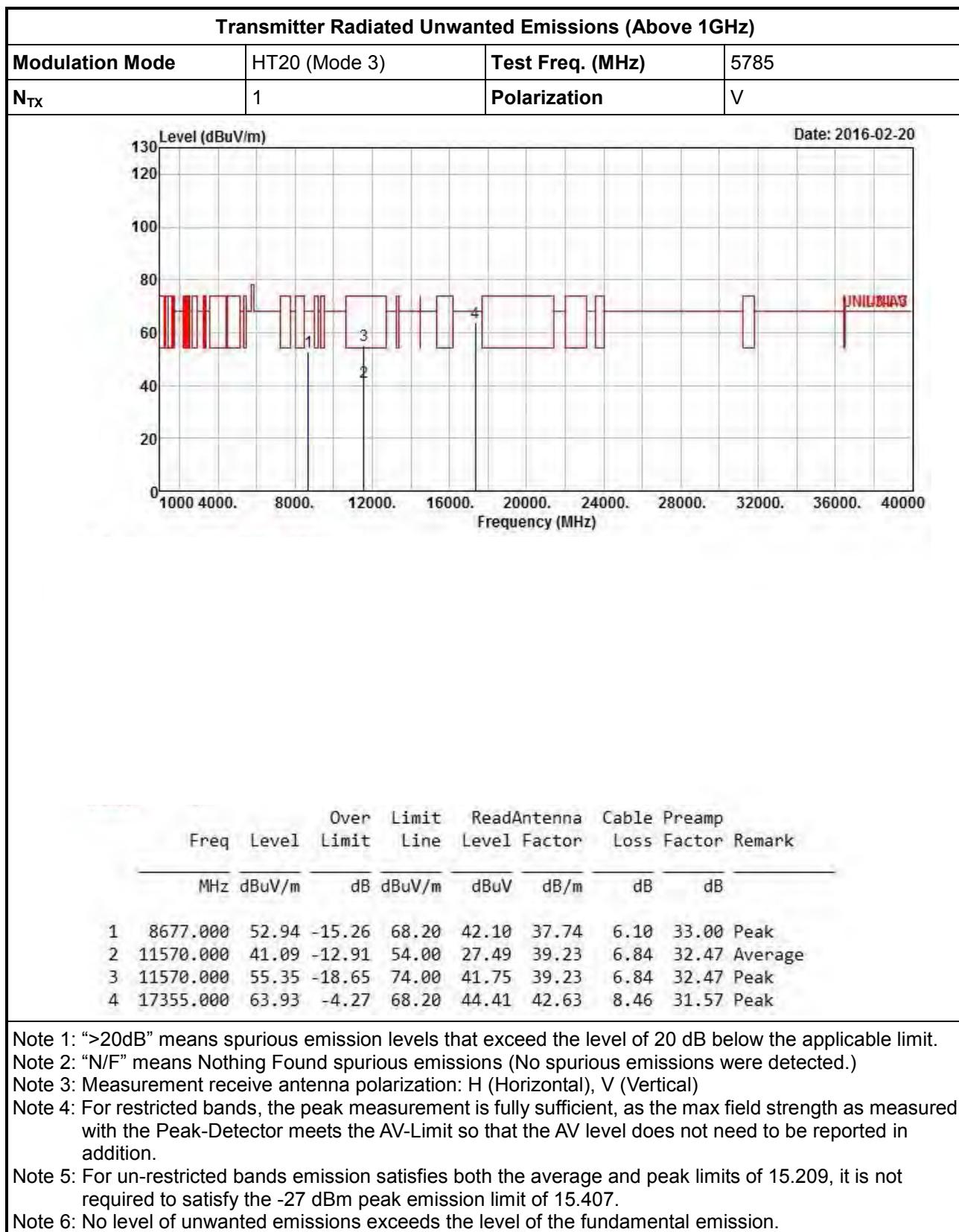


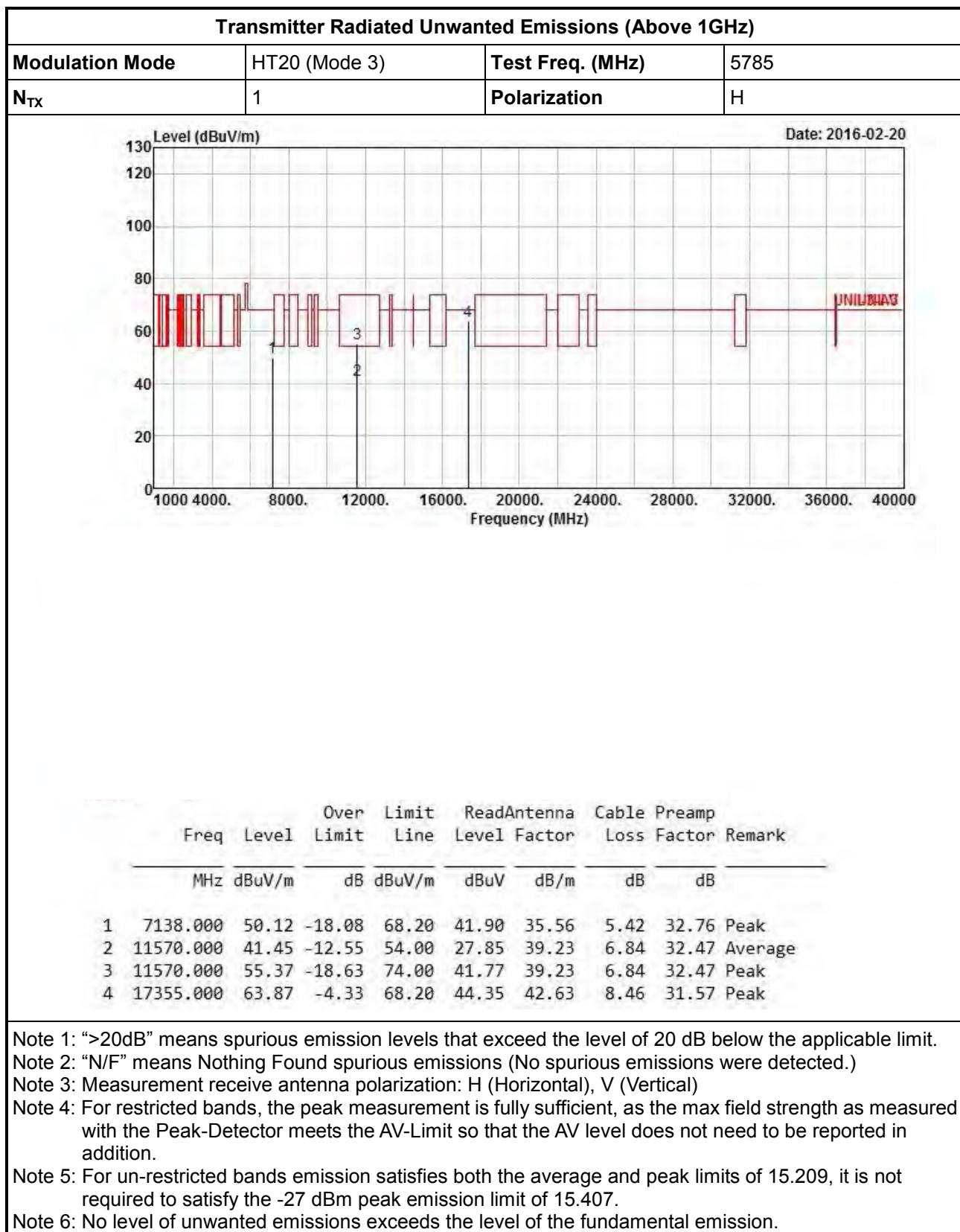


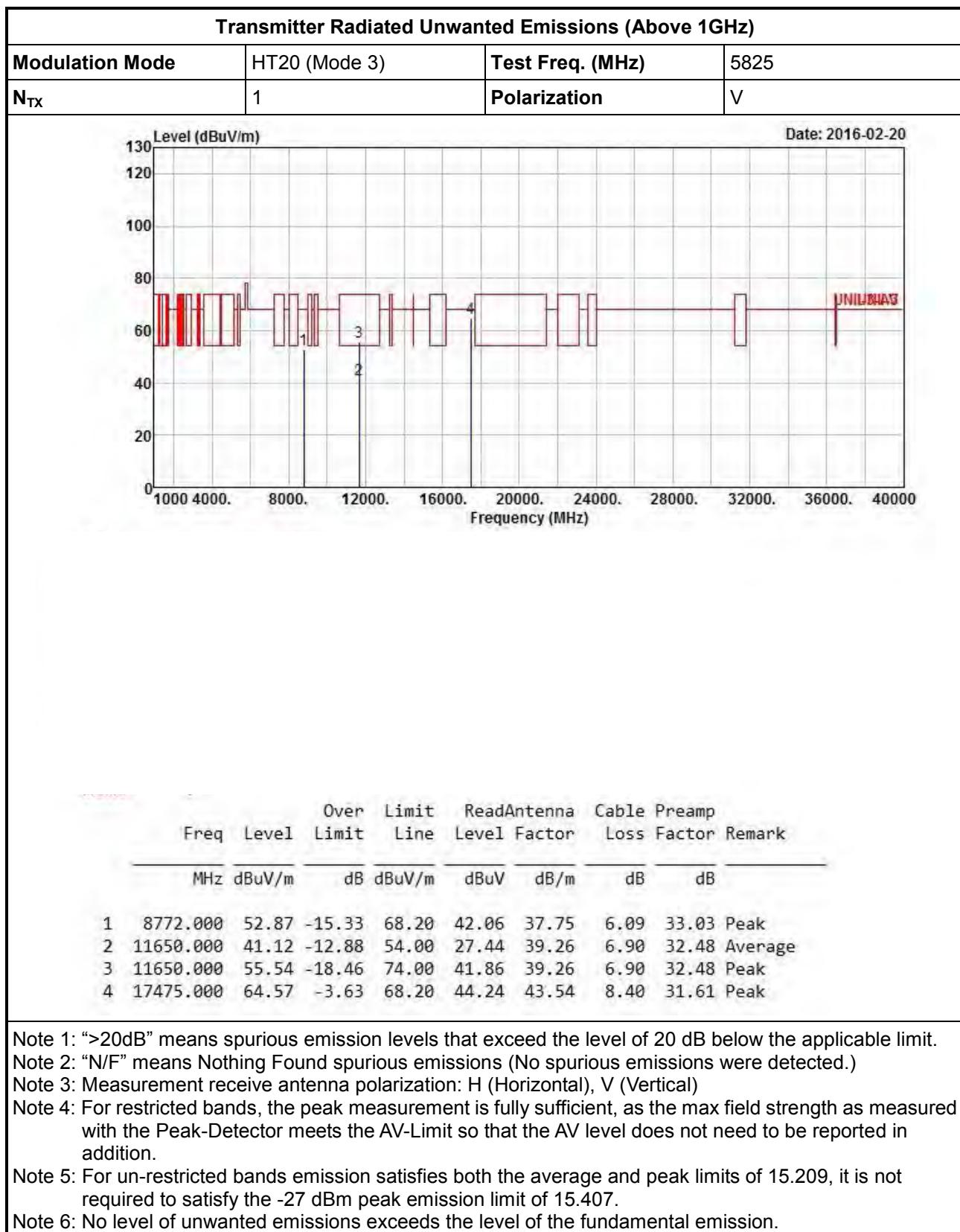


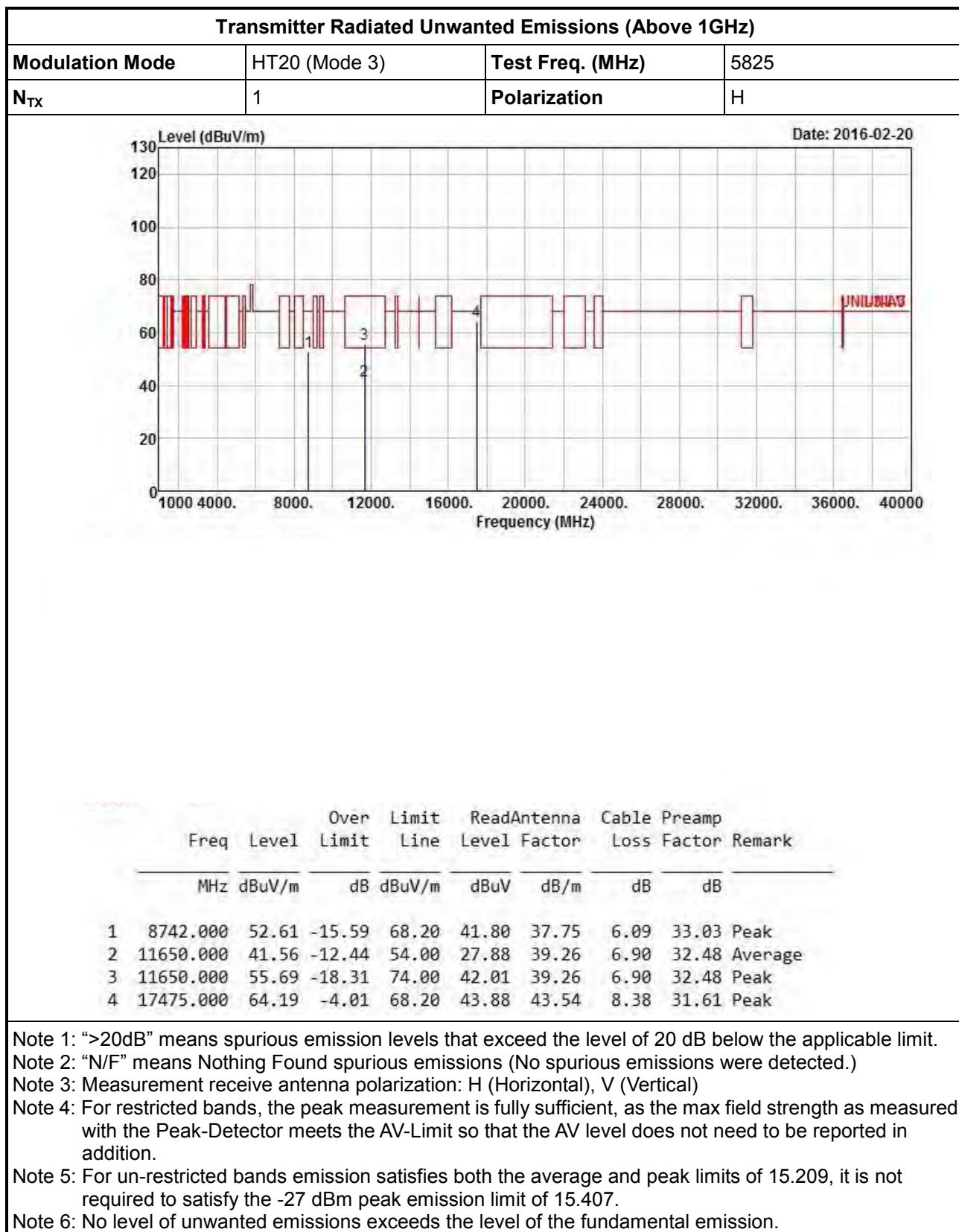


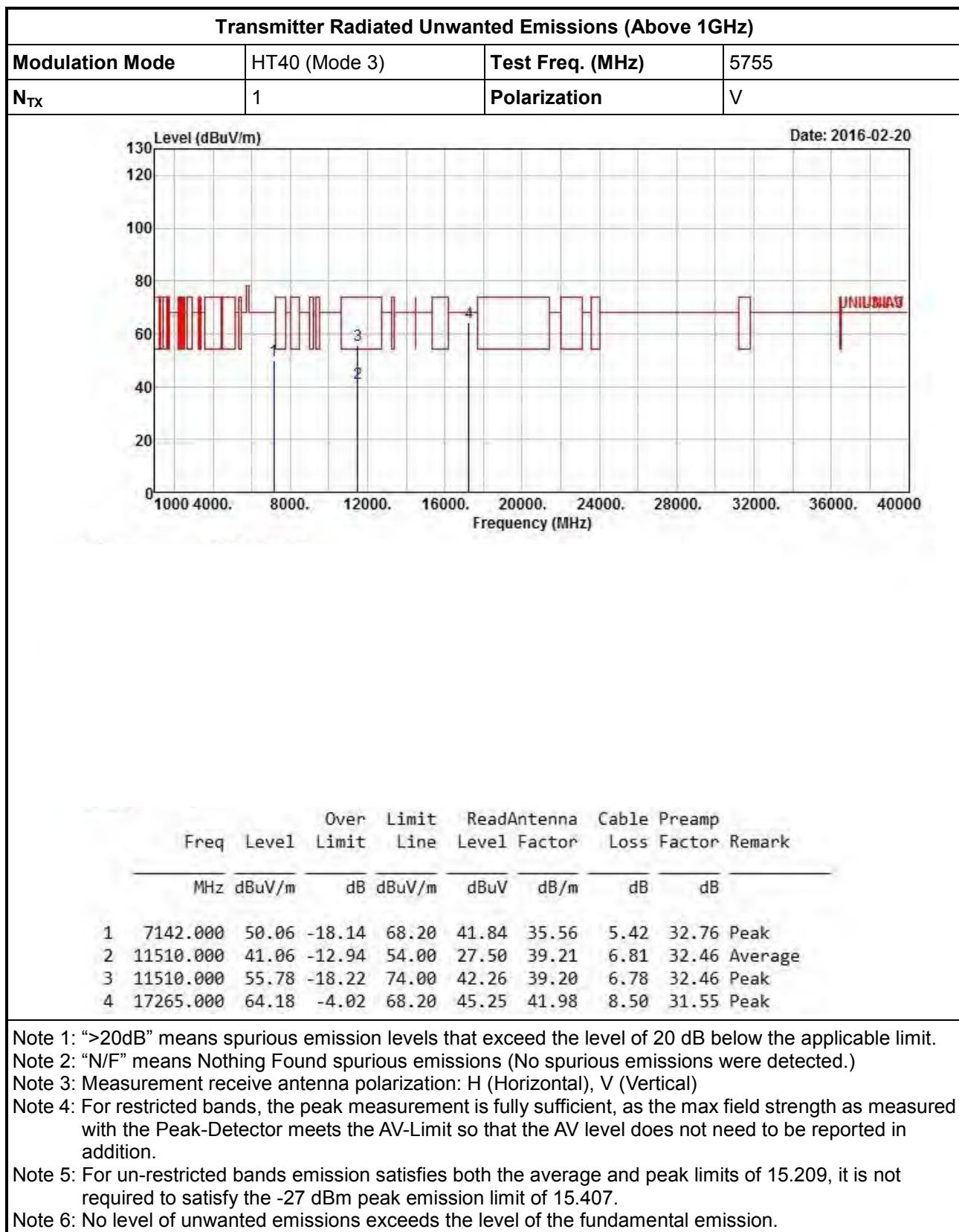


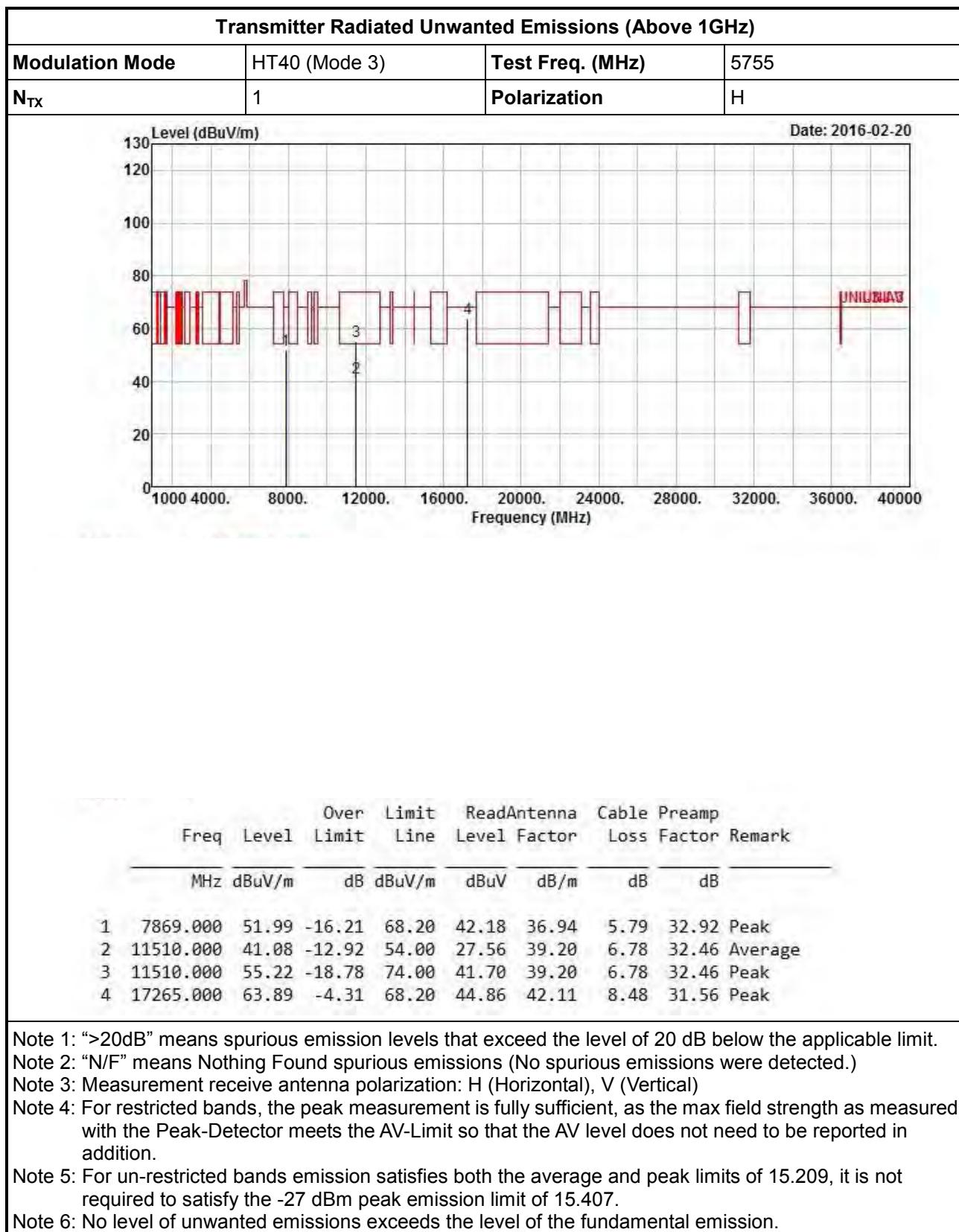


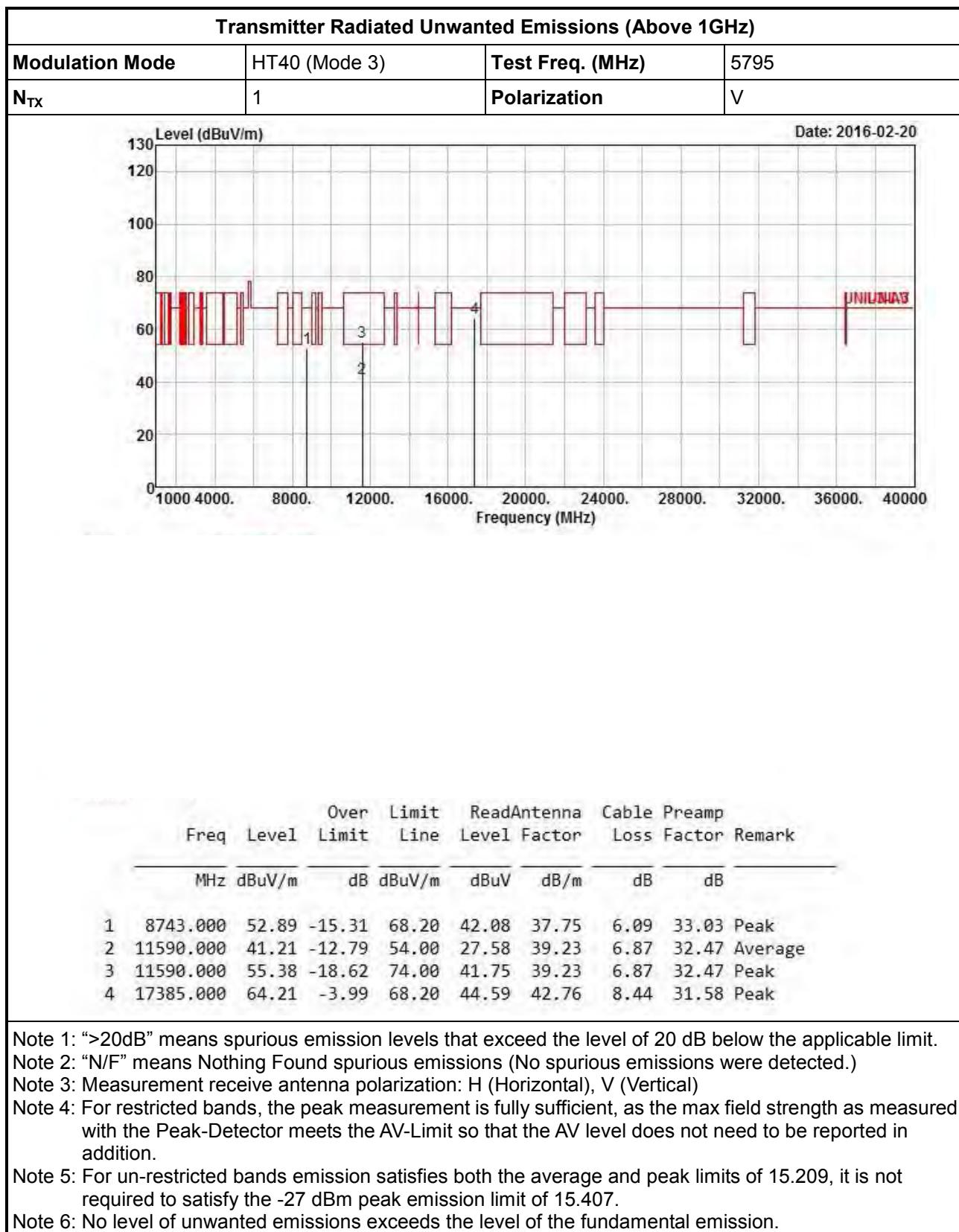


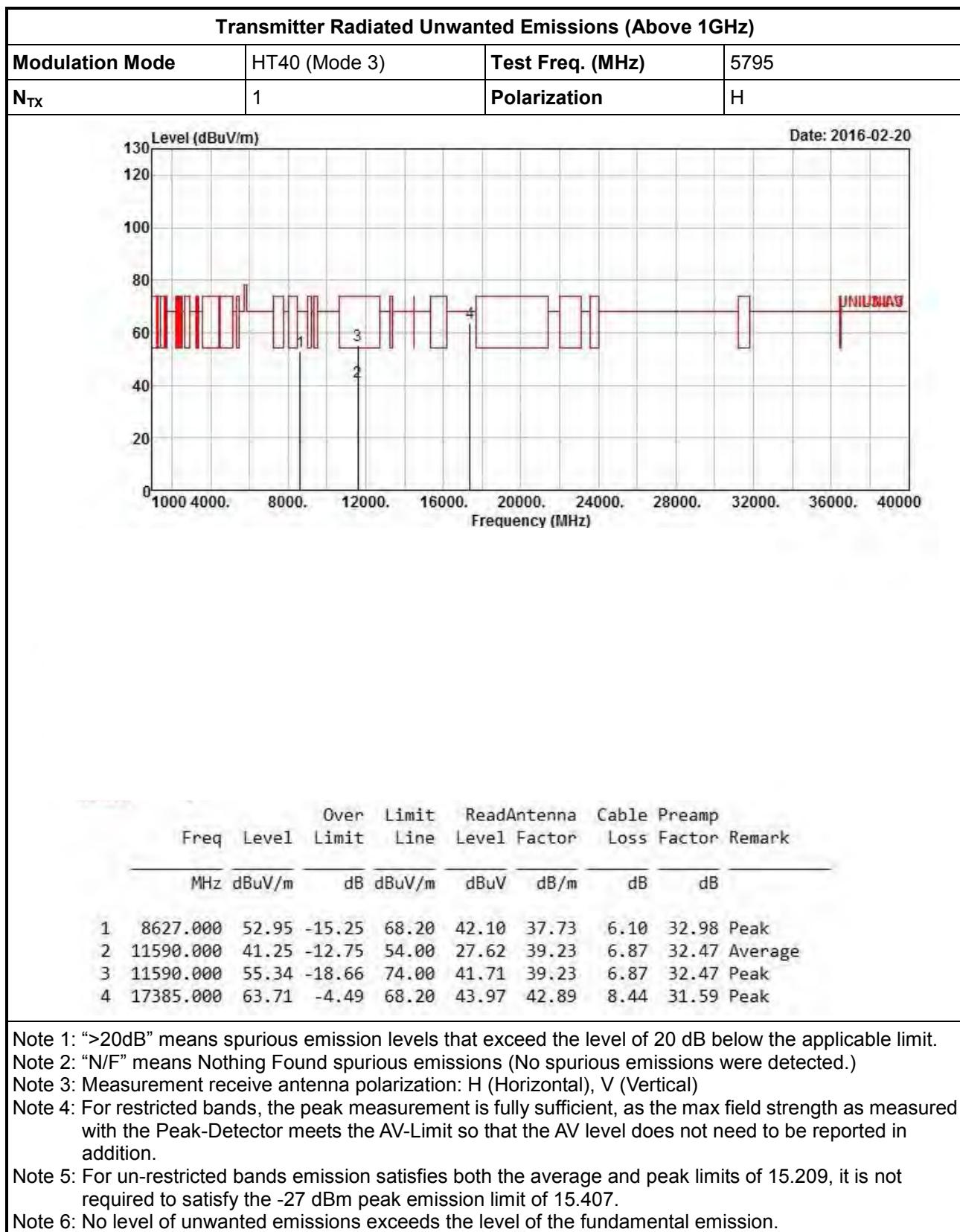


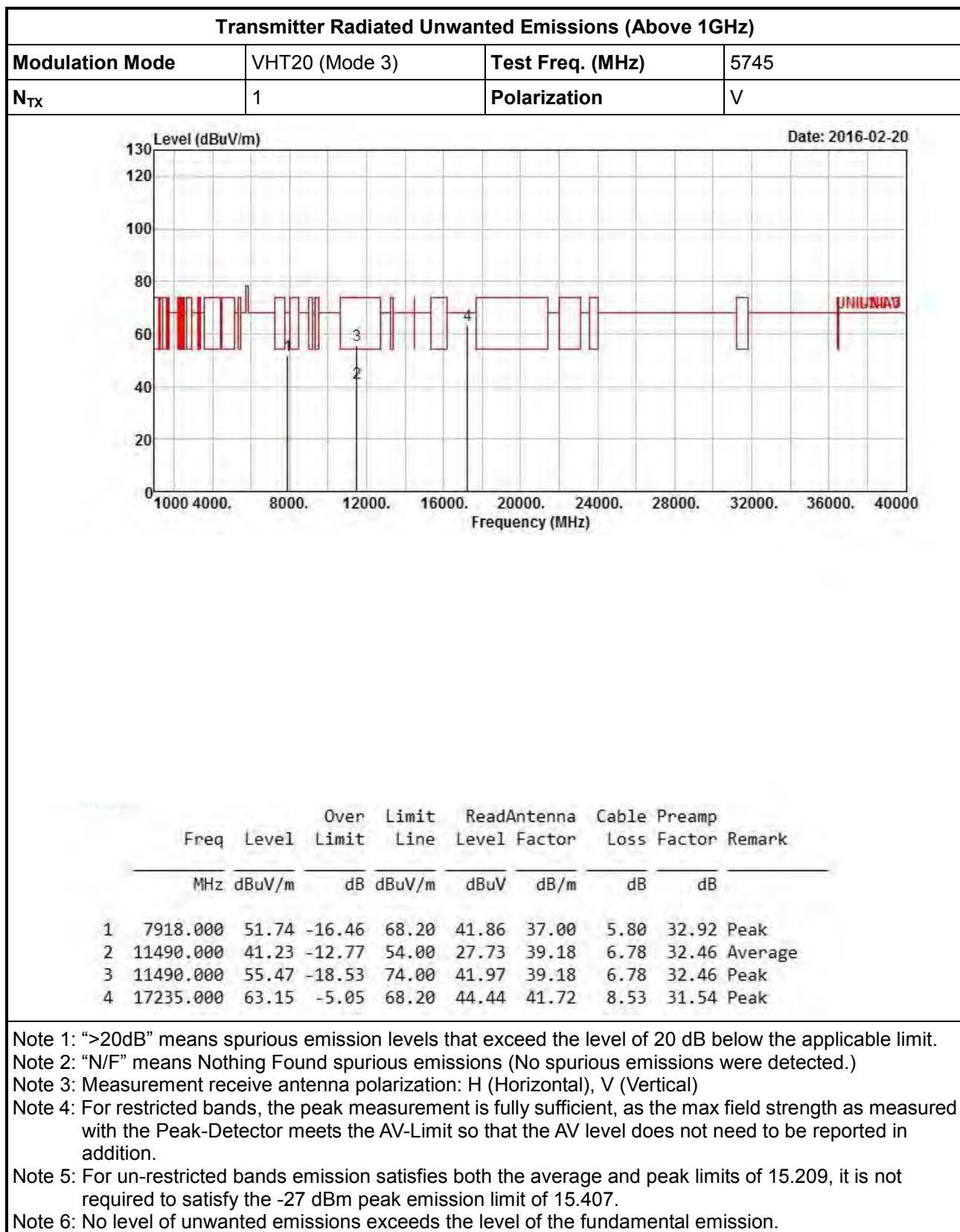


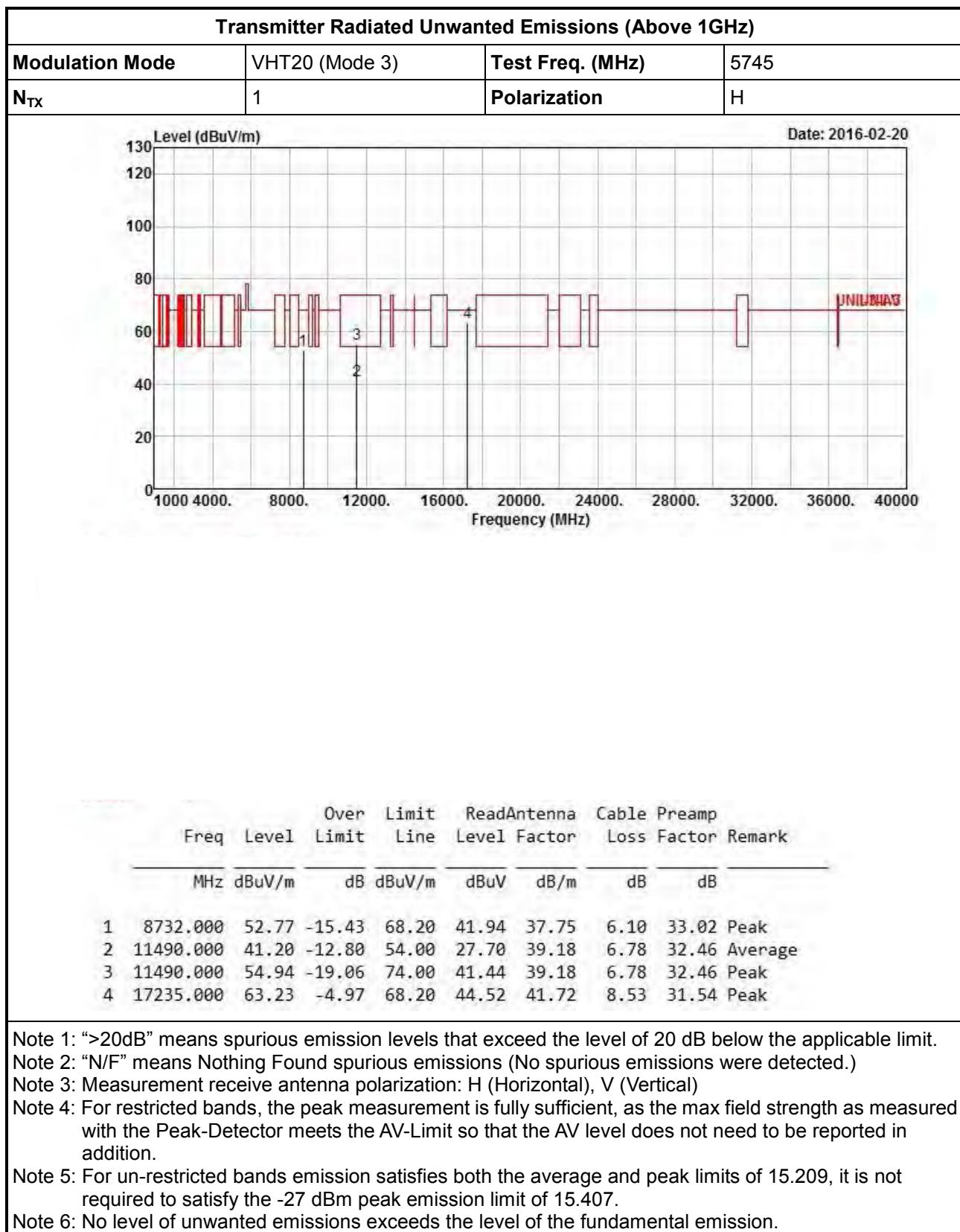


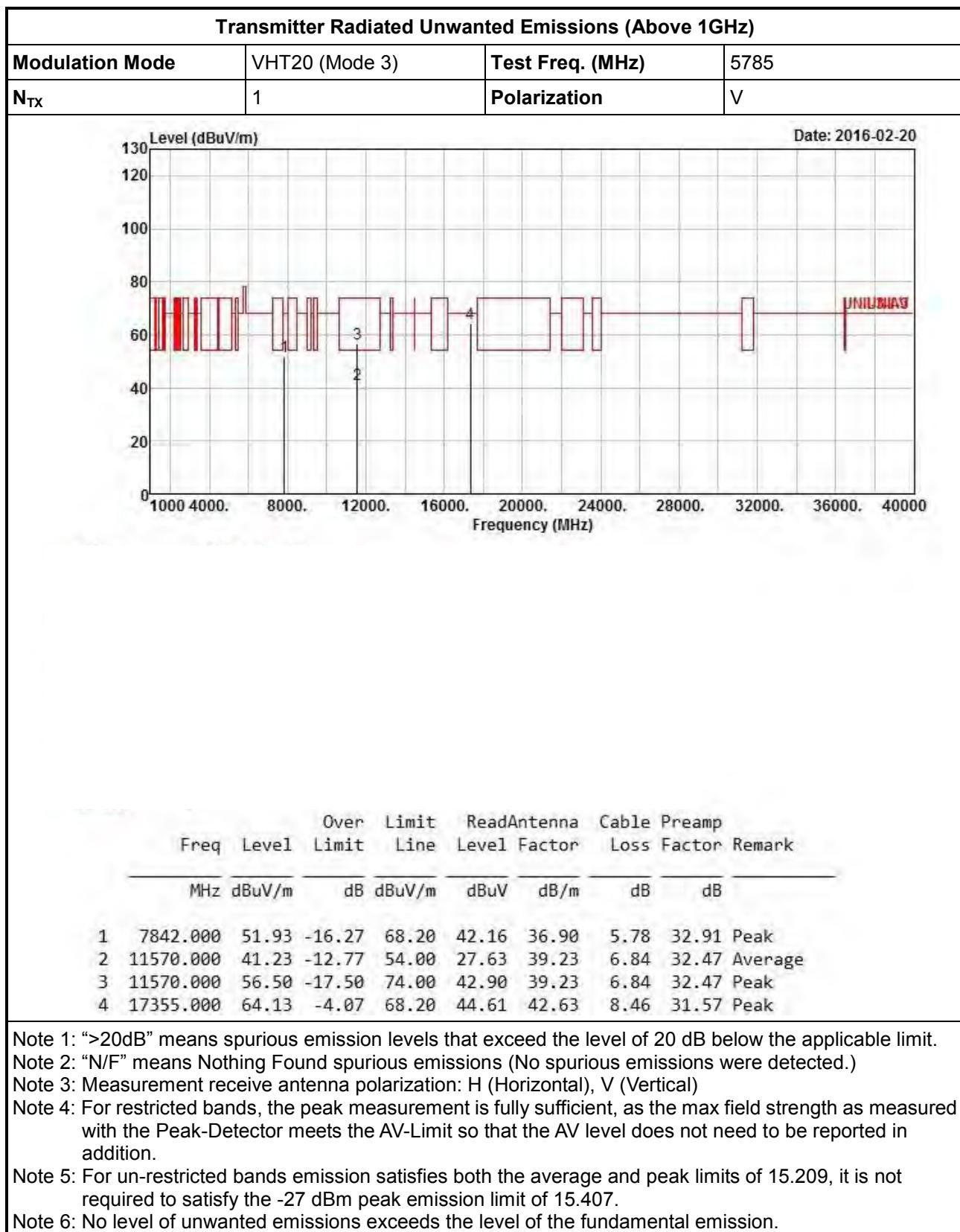


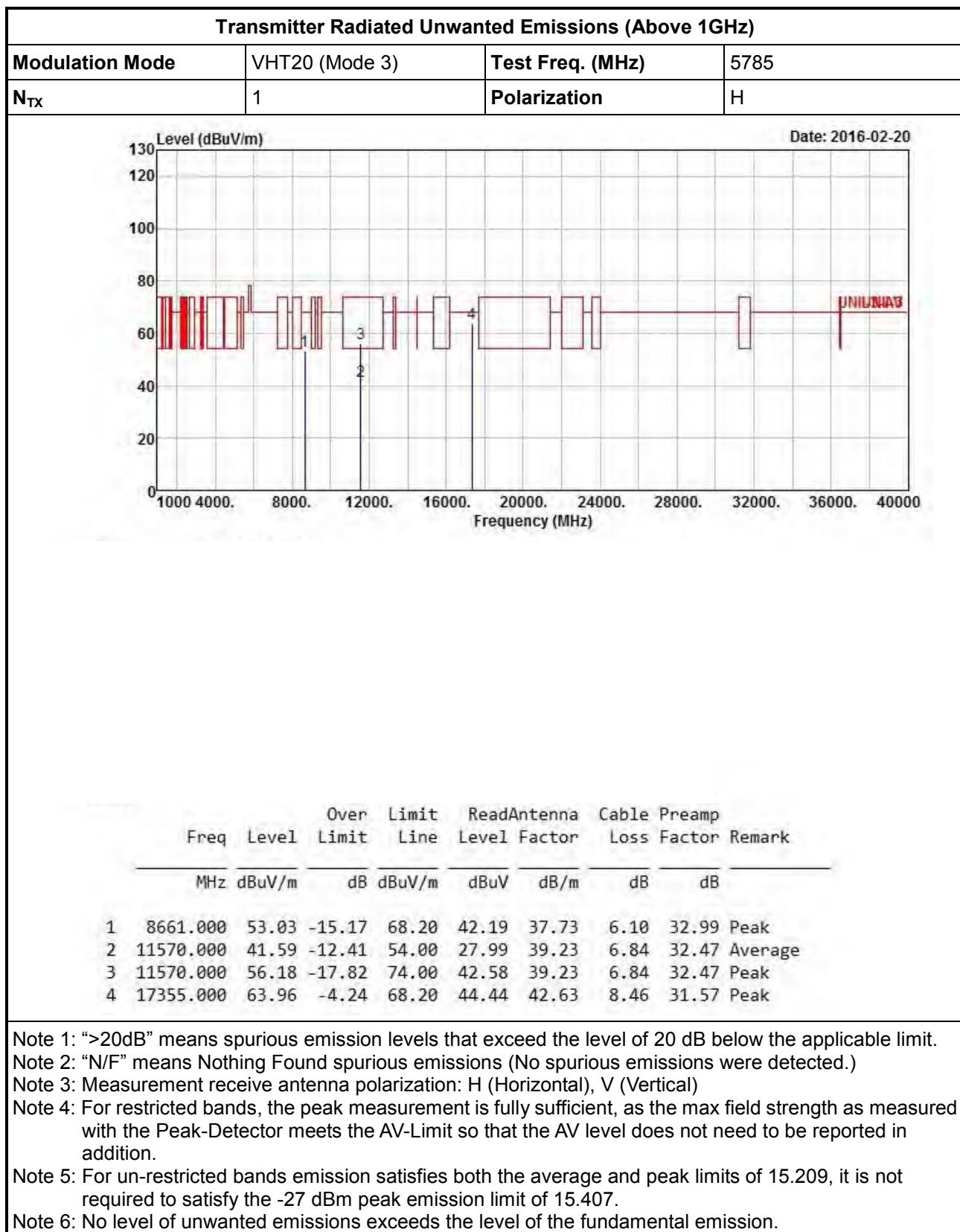


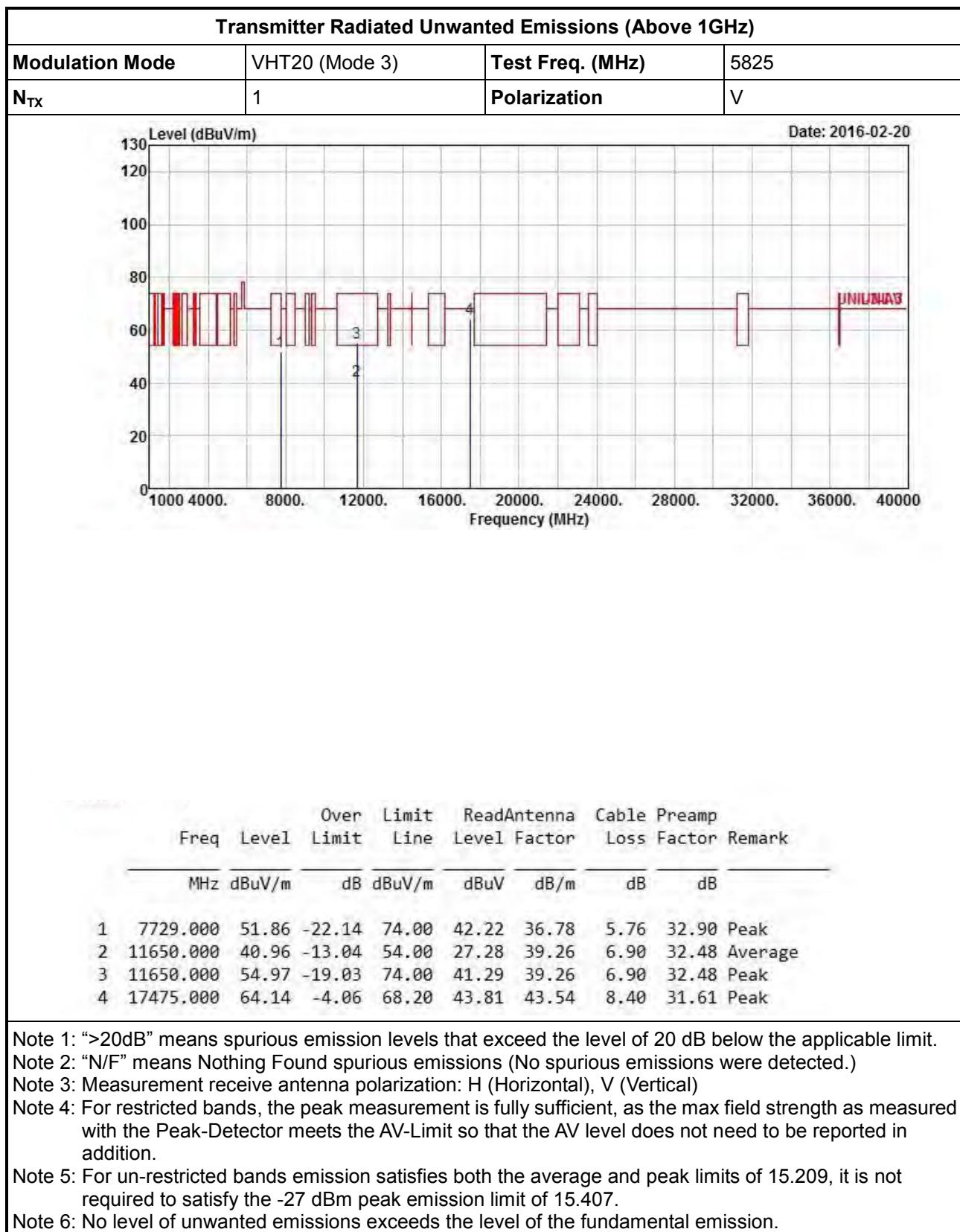


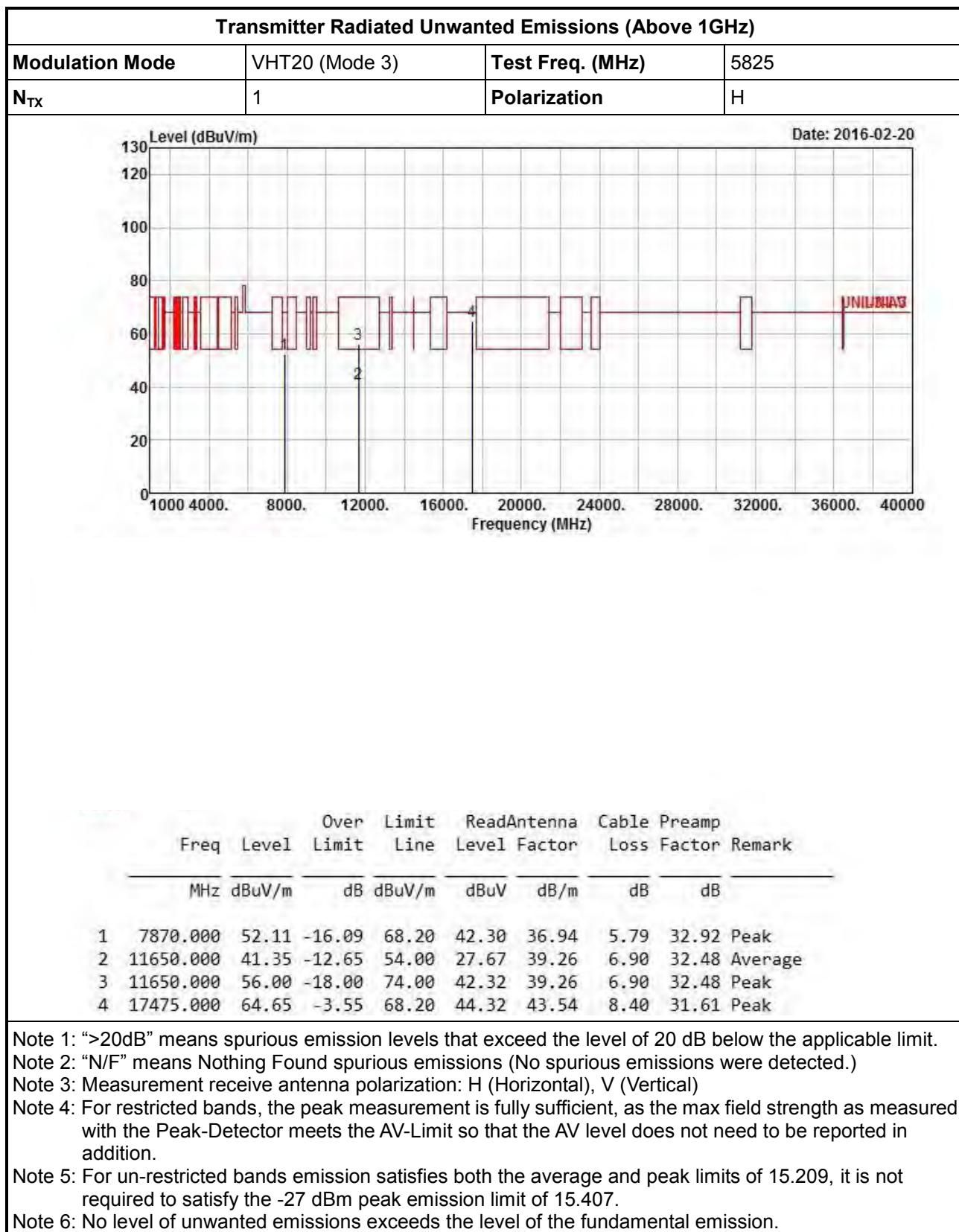


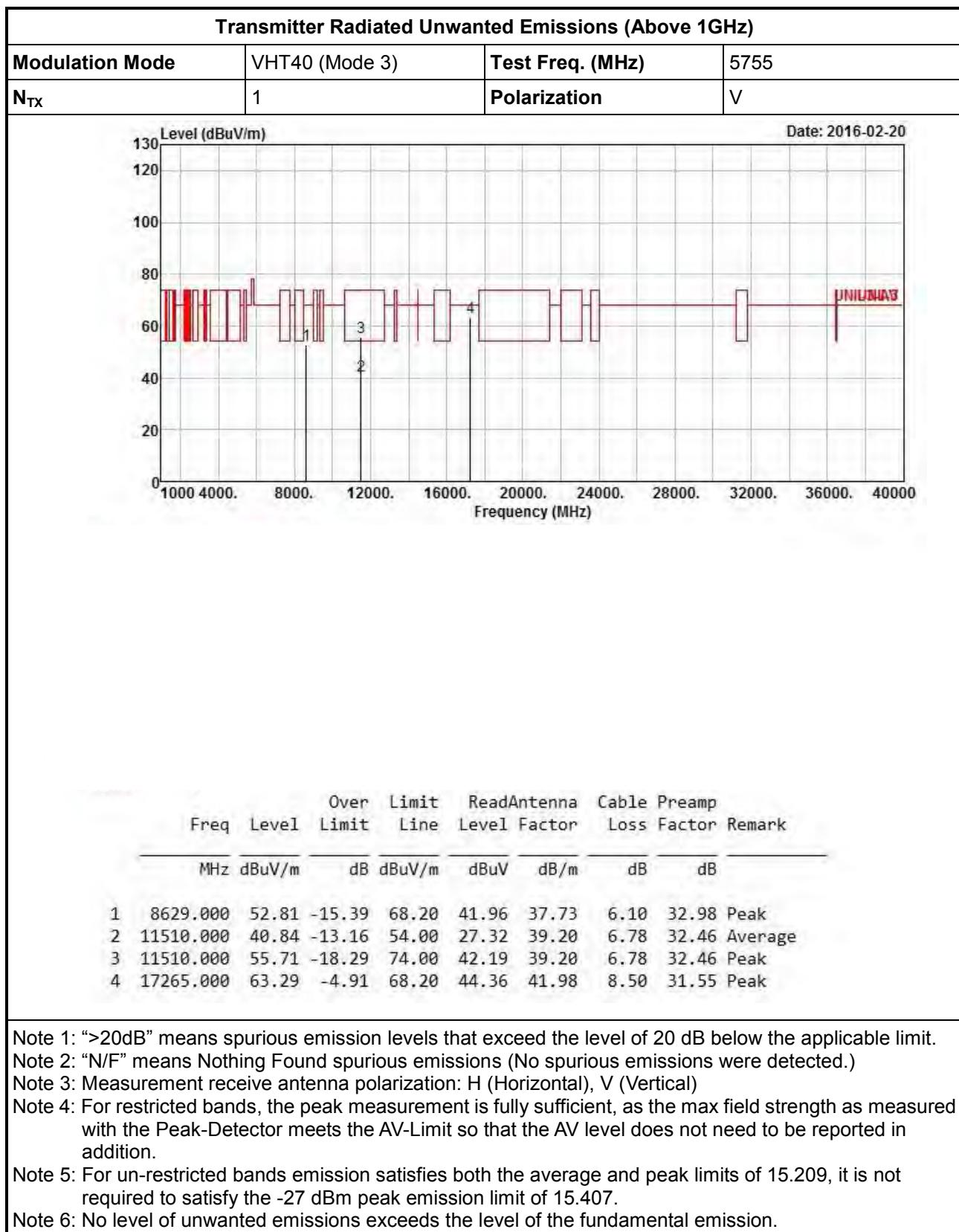


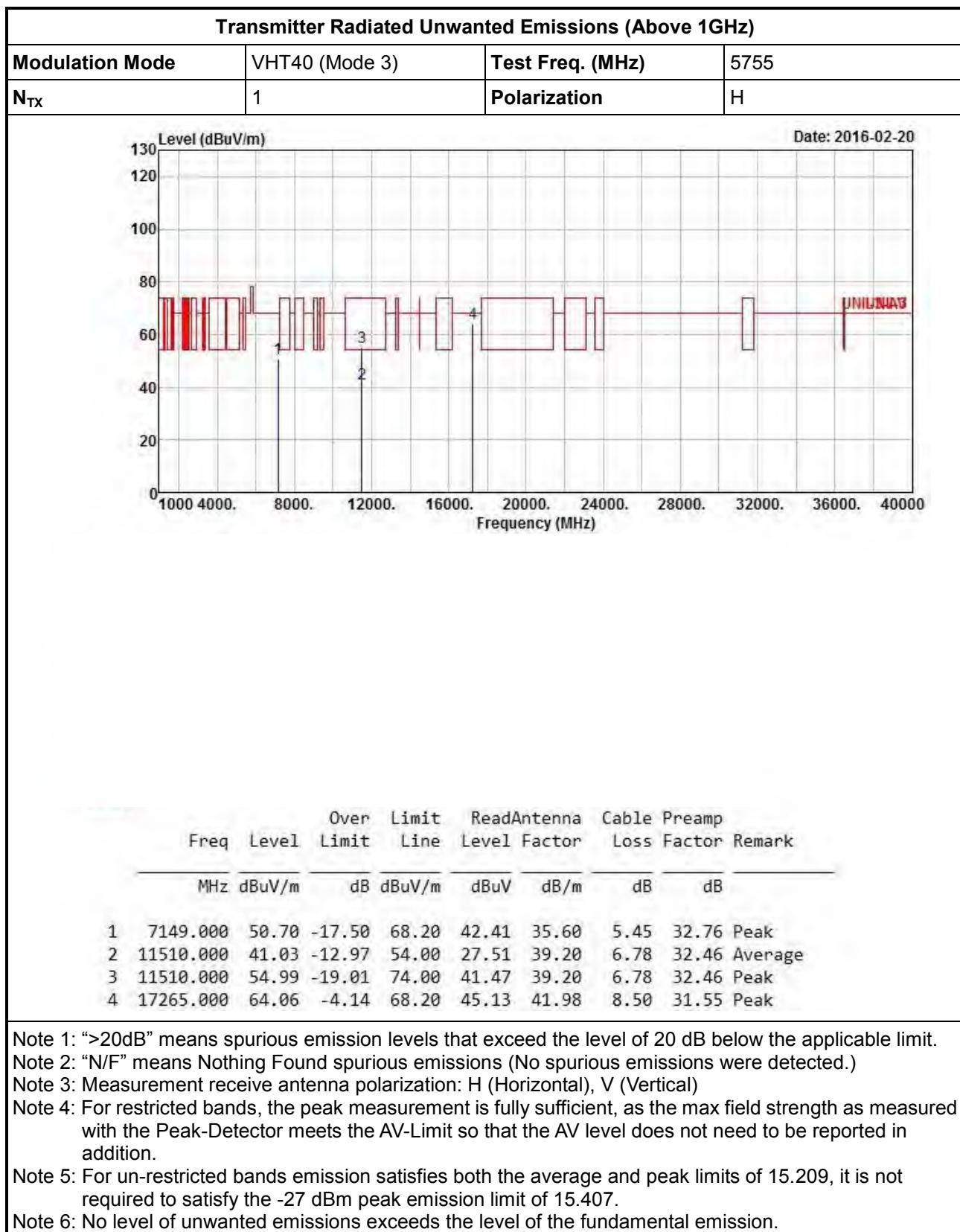


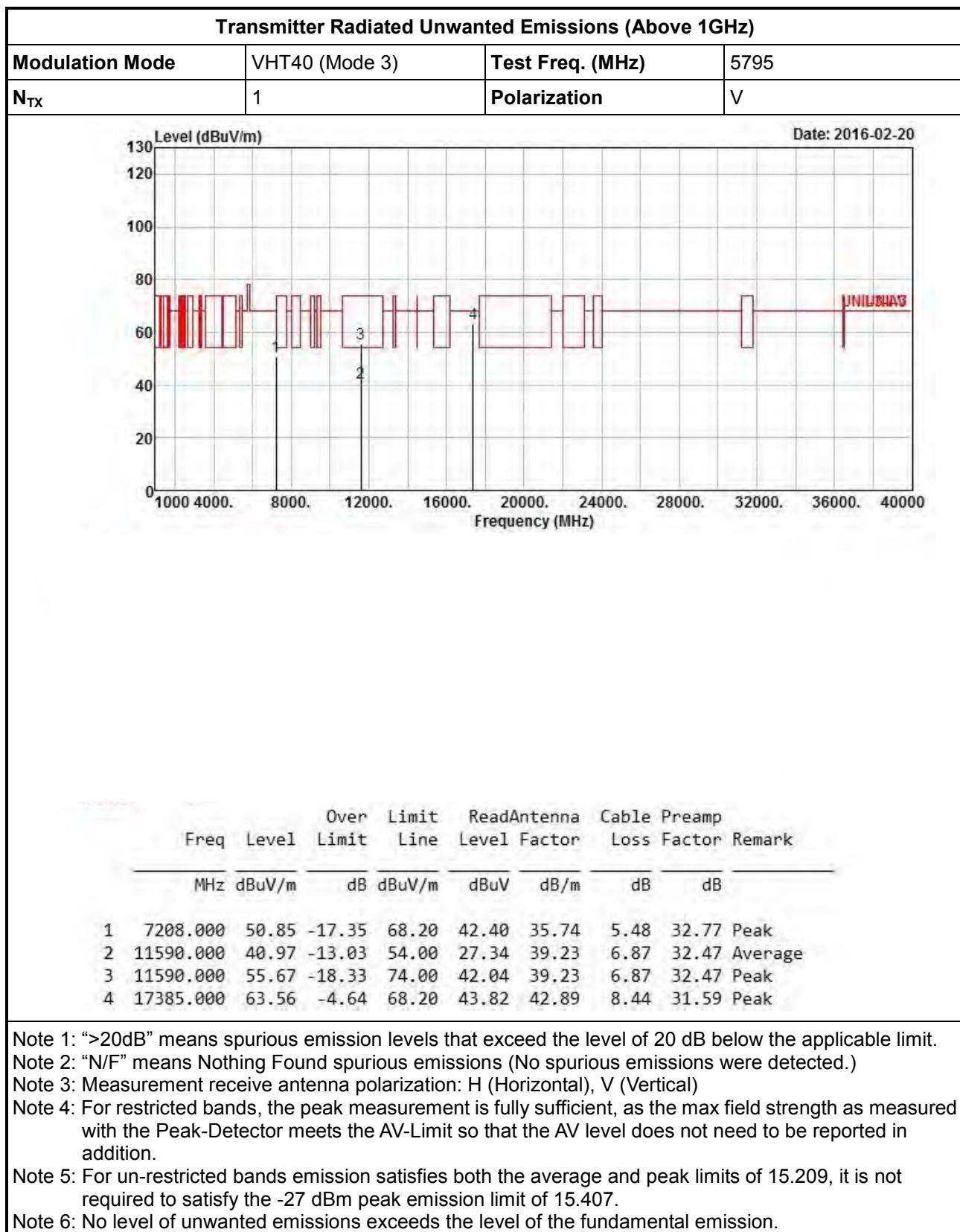












Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40 (Mode 3)	Test Freq. (MHz)	5795
N _{TX}	1	Polarization	H

Level (dBuV/m)
Date: 2016-02-20

Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp		
		Limit	Line	Level	Factor	Loss	Factor	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
1	7183.000	50.70	-17.50	68.20	42.29	35.69	5.48	32.76	Peak
2	11590.000	41.32	-12.68	54.00	27.69	39.23	6.87	32.47	Average
3	11590.000	55.75	-18.25	74.00	42.12	39.23	6.87	32.47	Peak
4	17385.000	63.94	-4.26	68.20	44.32	42.76	8.44	31.58	Peak

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

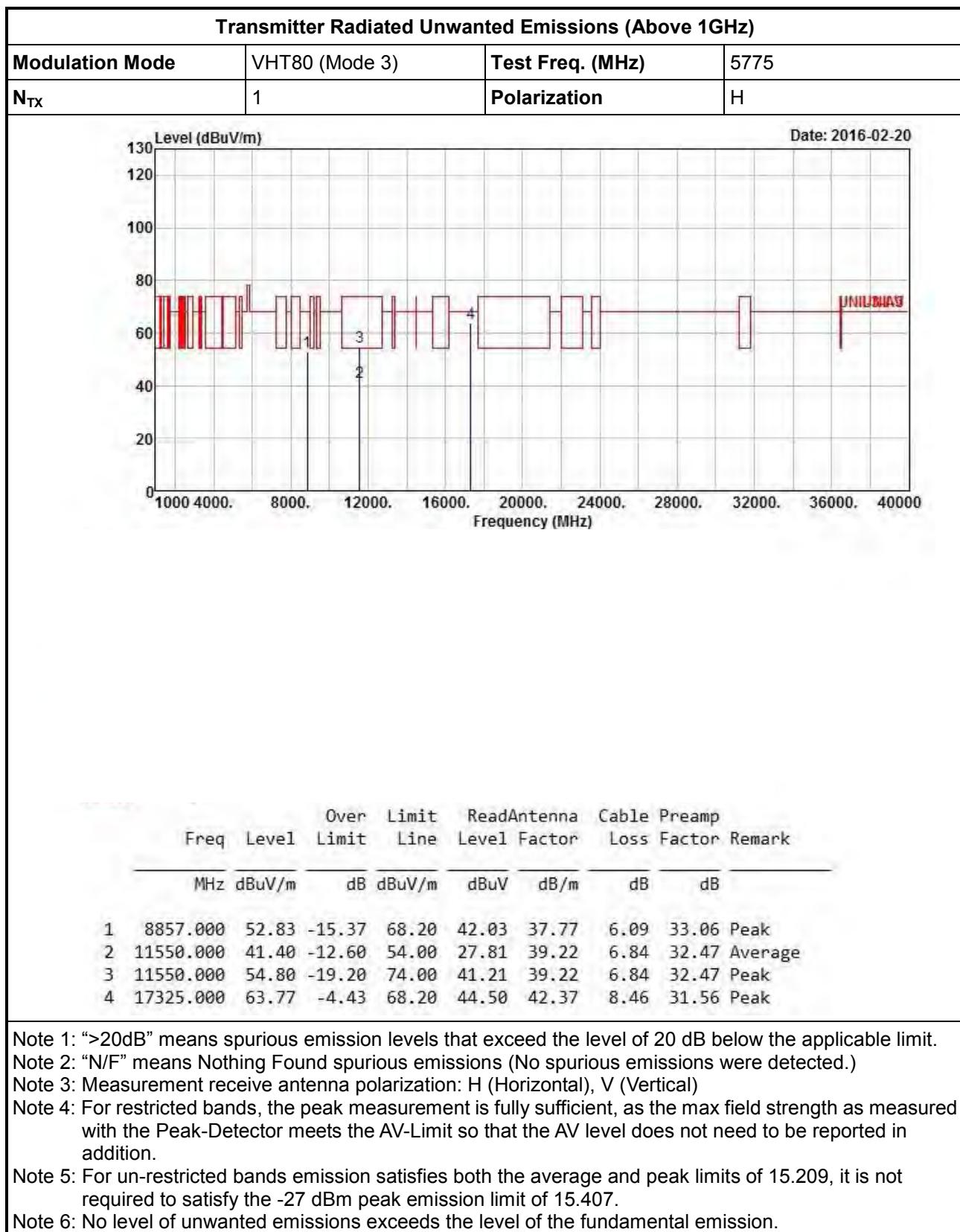
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80 (Mode 3)		Test Freq. (MHz)	5775					
N _{TX}	1		Polarization	V					
Level (dBuV/m)					Date: 2016-02-20				
Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp			
	MHz	dBuV/m	dB	Line	Level	Factor	Loss	Factor	Remark
					dBuV	dB/m	dB	dB	
1	7890.000	51.76	-16.44	68.20	41.92	36.96	5.80	32.92	Peak
2	11550.000	41.21	-12.79	54.00	27.62	39.22	6.84	32.47	Average
3	11550.000	55.47	-18.53	74.00	41.88	39.22	6.84	32.47	Peak
4	17325.000	63.84	-4.36	68.20	44.57	42.37	8.46	31.56	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
 Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



3.7 Frequency Stability

3.7.1 Frequency Stability Limit

Frequency Stability Limit	
UNII Devices	
<input checked="" type="checkbox"/> In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.	
IEEE Std. 802.11n-2009	
<input checked="" type="checkbox"/> The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band.	

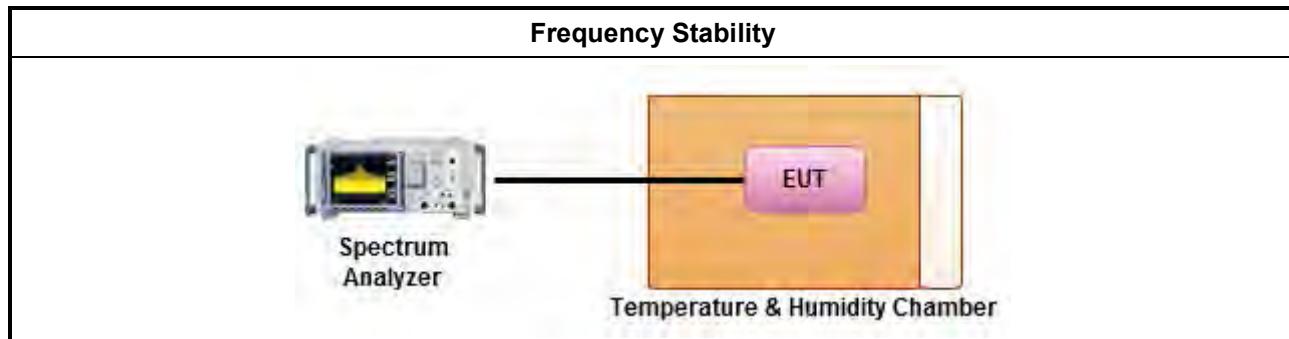
3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
<input checked="" type="checkbox"/>	Frequency stability with respect to ambient temperature
<input checked="" type="checkbox"/>	Frequency stability when varying supply voltage
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs)
<input type="checkbox"/>	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

3.7.4 Test Setup





3.7.5 Test Result of Frequency Stability

Frequency Stability Result									
Mode		Frequency Stability (ppm)							
Condition	Freq. (MHz)	Test Frequency (MHz)				Frequency Stability (ppm)			
		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min
T20°C Vmax	5180	5179.96831	5179.96744	5179.96570	5179.96527	-6.1178	-6.2857	-6.6216	-6.7046
T20°C Vmin	5180	5179.96714	5179.96570	5179.96397	5179.96223	-6.3436	-6.6216	-6.9556	-7.2915
T50°C Vnom	5180	5179.93748	5179.93705	5179.93575	5179.93444	-12.0695	-12.1525	-12.4035	-12.6564
T40°C Vnom	5180	5179.94009	5179.93835	5179.93792	5179.93748	-11.5656	-11.9015	-11.9846	-12.0695
T30°C Vnom	5180	5179.95398	5179.95268	5179.95137	5179.94877	-8.8842	-9.1351	-9.3880	-9.8900
T20°C Vnom	5180	5179.96700	5179.96614	5179.96483	5179.96440	-6.3707	-6.5367	-6.7896	-6.8726
T10°C Vnom	5180	5179.97742	5179.97742	5179.97699	5179.97699	-4.3591	-4.3591	-4.4421	-4.4421
T0°C Vnom	5180	5179.99980	5179.99870	5179.99740	5179.99653	-0.0386	-0.2510	-0.5019	-0.6699
T-10°C Vnom	5180	5180.01389	5180.01259	5180.01172	5180.01085	2.6815	2.4305	2.2625	2.0946
T-20°C Vnom	5180	5180.01780	5180.01954	5180.02084	5180.01214	3.4363	3.7722	4.0232	2.3436
Limit (ppm)		-				± 20			
Result		Complied							

Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom].

Note 2: The nominal voltage refer test report clause 1.1.6 for EUT operational condition.



4 Test Equipment and Calibration Data

< AC Conduction >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2013	Mar. 25, 2014
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2013	Jan. 20, 2014
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	9kHz ~ 30MHz	Oct. 30, 2013	Oct. 29, 2014
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A



For 5150-5250 MHz

<RF Conducted>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9KHz~40GHz	Jan. 29, 2013	Jan. 28, 2014
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345675/4	30MHz ~ 26.5GHz	Dec. 04, 2012	Dec. 03, 2013
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	30MHz ~ 26.5GHz	Dec. 04, 2012	Dec. 03, 2013

<Radiation Emissions >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2013	May 10, 2014
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 17, 2013	Jul. 16, 2014
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 28, 2013	Aug. 27, 2014
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Oct. 03, 2013	Oct. 02, 2014
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 10, 2013	Oct. 08, 2014
Horn Antenna	ETS-LINDGREN	3115	6744	1GHz ~ 18GHz	Mar. 18, 2013	Mar. 17, 2014
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Jan. 07, 2014
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 09, 2013	Nov. 08, 2014
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 05, 2013	Mar. 04, 2014
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	N/A
Antenna Mast	MF	MF7802	MF780208205	1 ~ 4 m	N/A	N/A

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz ~ 40GHz	Apr. 19, 2013	Apr. 18, 2014
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz - 30 MHz	Dec. 02, 2012	Dec. 01, 2013



For 5725~5850 MHz

<RF Conducted>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	9KHz~40GHz	May 06, 2015	May 05, 2016
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jul. 28, 2015	Jul. 27, 2016

<Radiation Emissions >

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 28, 2015	Nov. 27, 2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	Dec. 16, 2015	Dec. 15, 2016
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 11, 2015	May 10, 2016
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Sep. 02, 2015	Sep. 01, 2016
Spectrum	R&S	FSV40	101513	9kHz ~ 40GHz	Feb. 16, 2016	Feb. 15, 2017
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 18, 2015	Sep. 17, 2016
Horn Antenna	ETS • LINDGREN	3115	6741	1GHz ~ 18GHz	Jul. 15, 2015	Jul. 14, 2016
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz ~ 40GHz	Jan. 29, 2016	Jan. 28, 2017

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Amplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Jun. 01, 2017
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	Nov.16, 2015	Nov.15, 2017