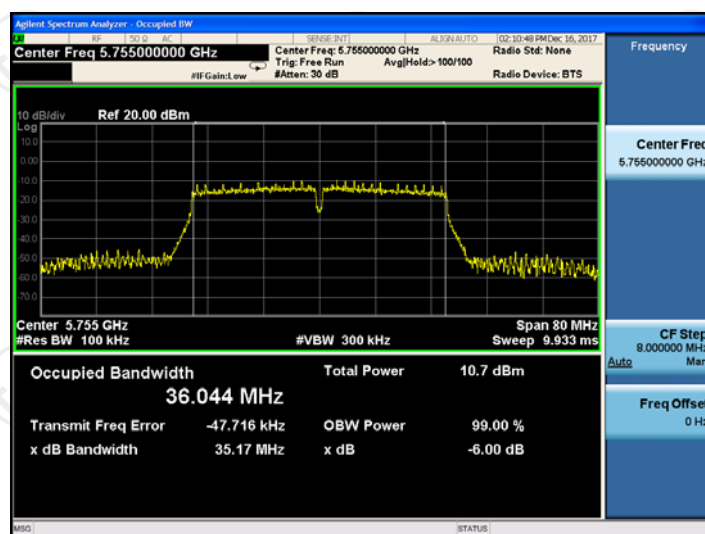
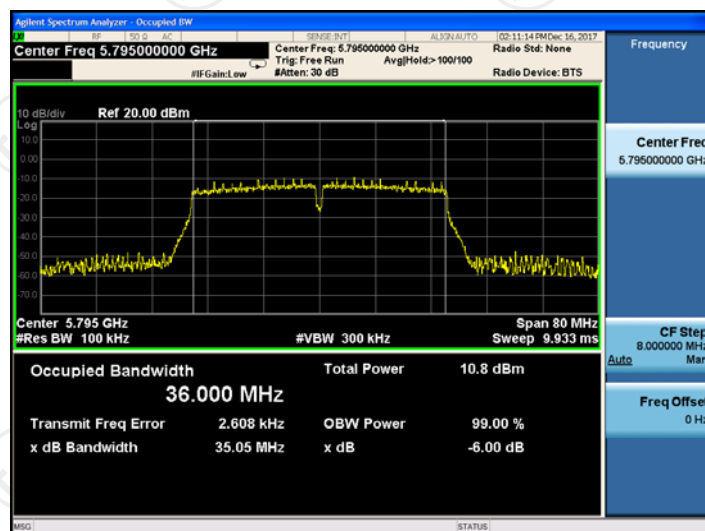


11n(HT40)

CH151

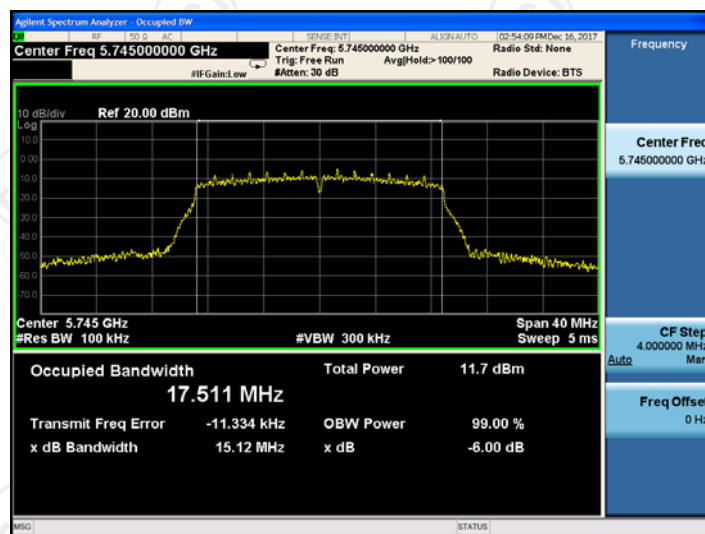


CH159

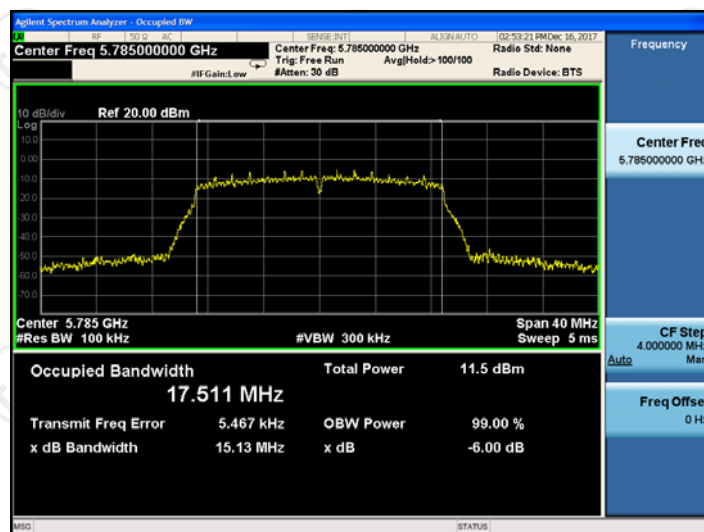


11ac(HT20)

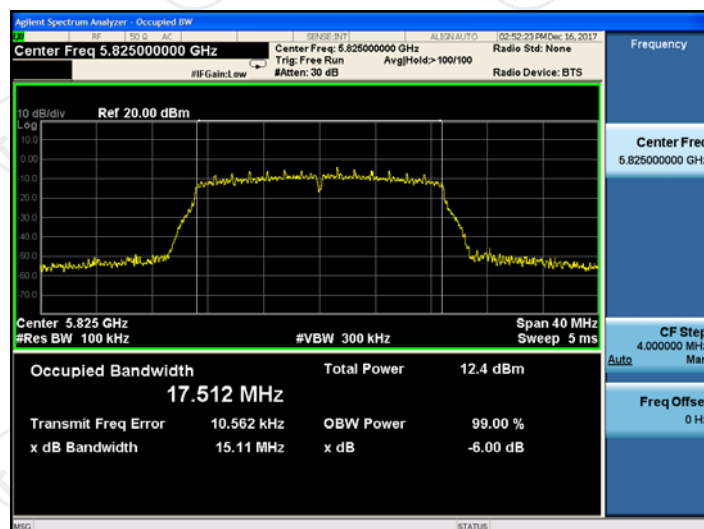
CH149



CH157

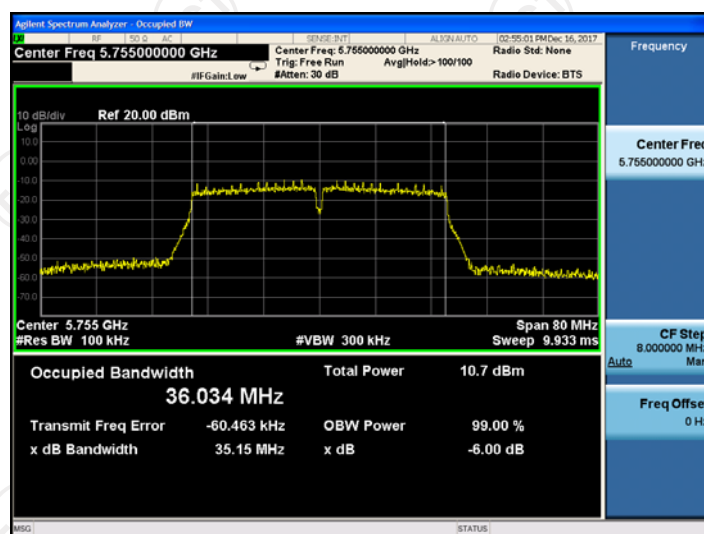


CH165

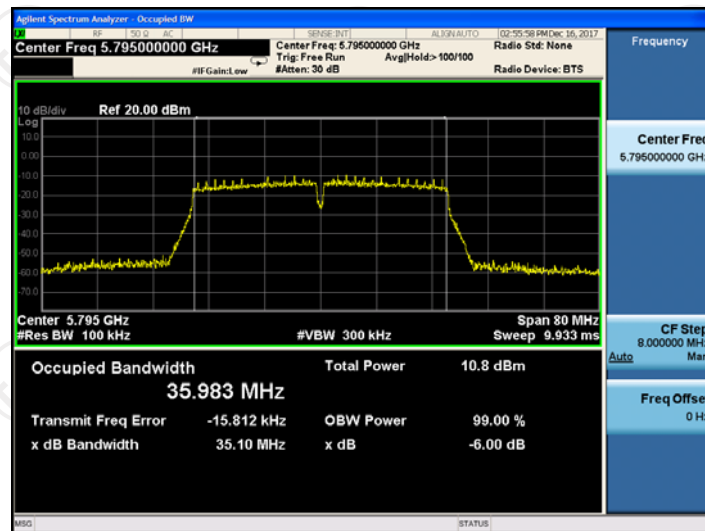


11ac(HT40)

CH151

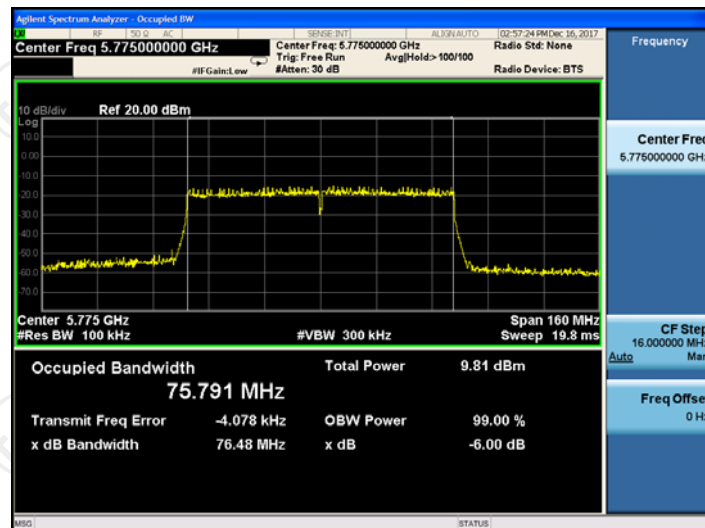


CH159



11ac(HT80)

CH155

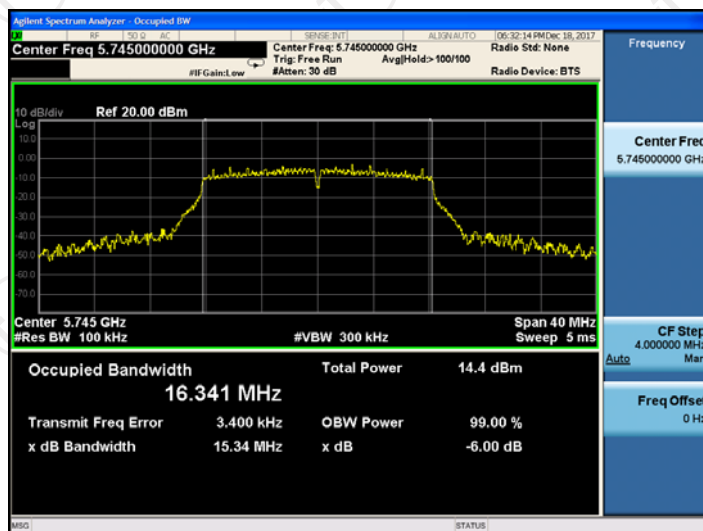


ANT 1

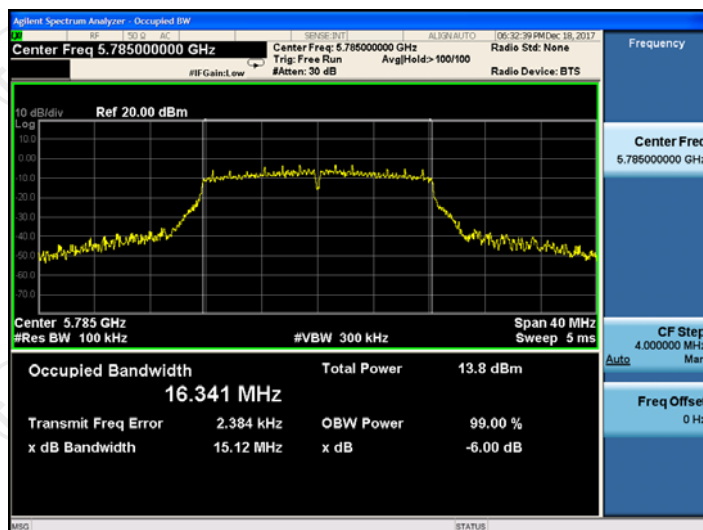
Band 3 (5725 – 5850 MHz)

11a

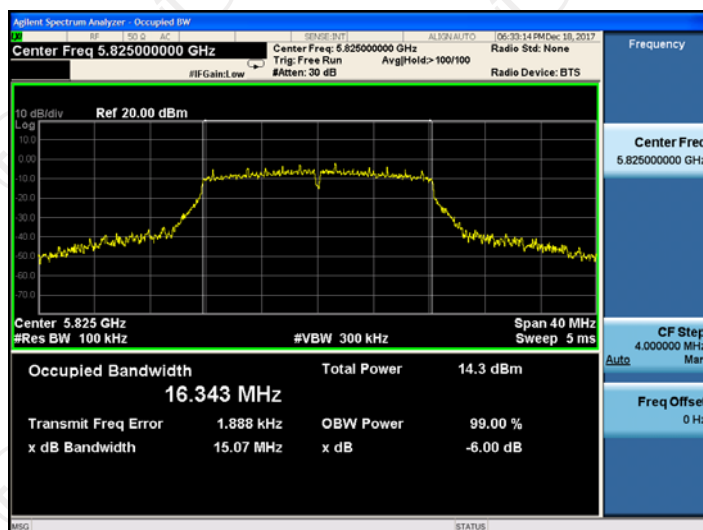
CH149



CH157

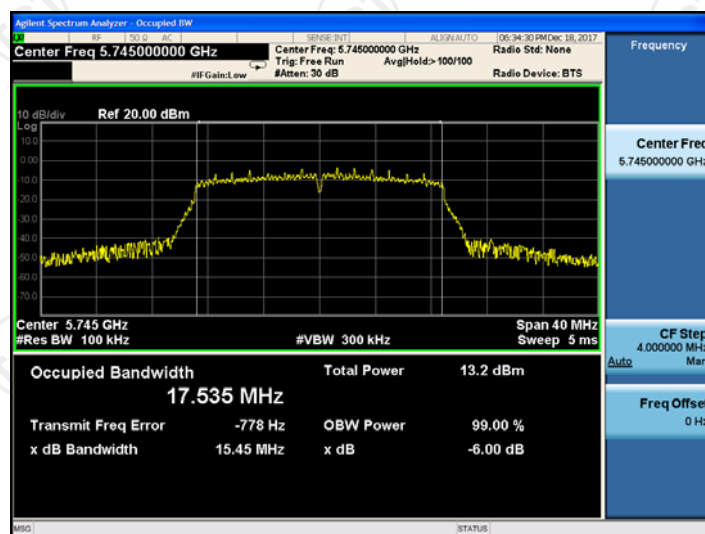


CH165

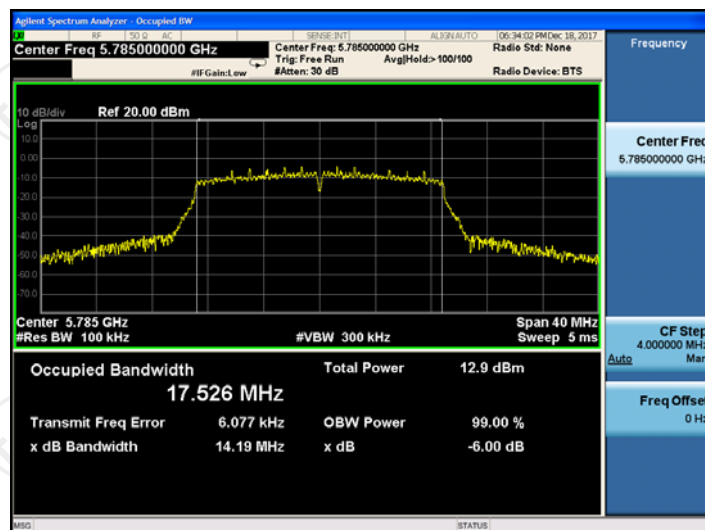


11n(HT20)

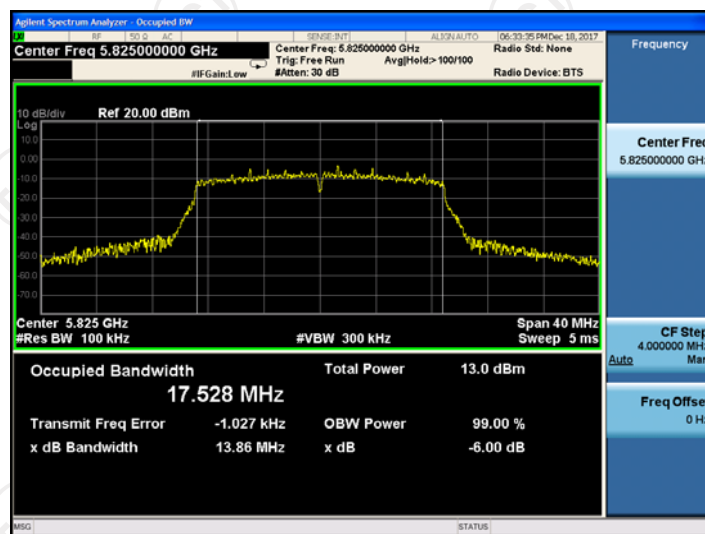
CH149



CH157

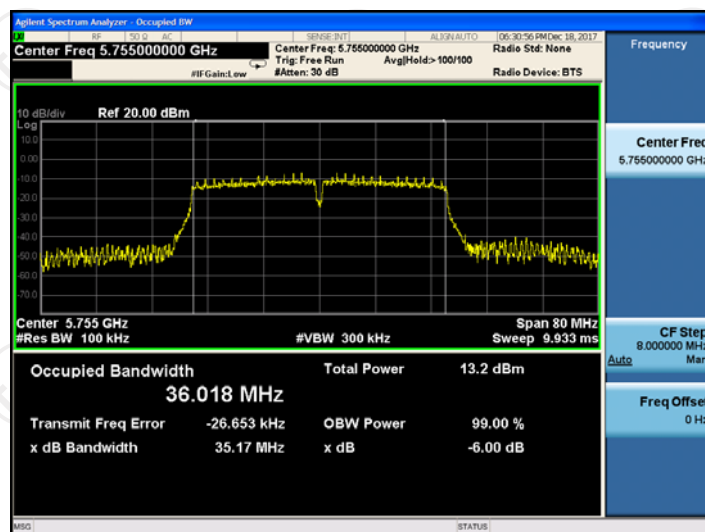


CH165

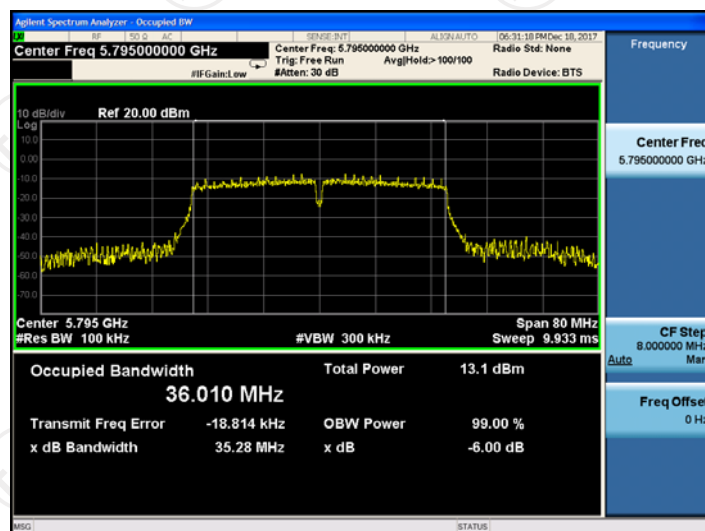


11n(HT40)

CH151

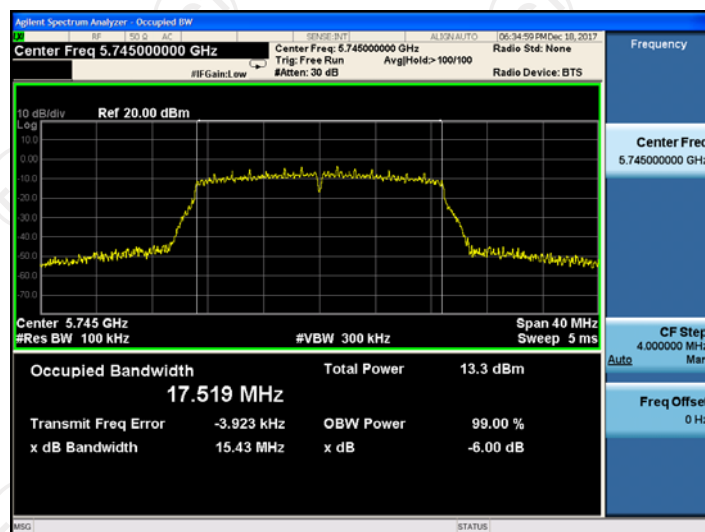


CH159

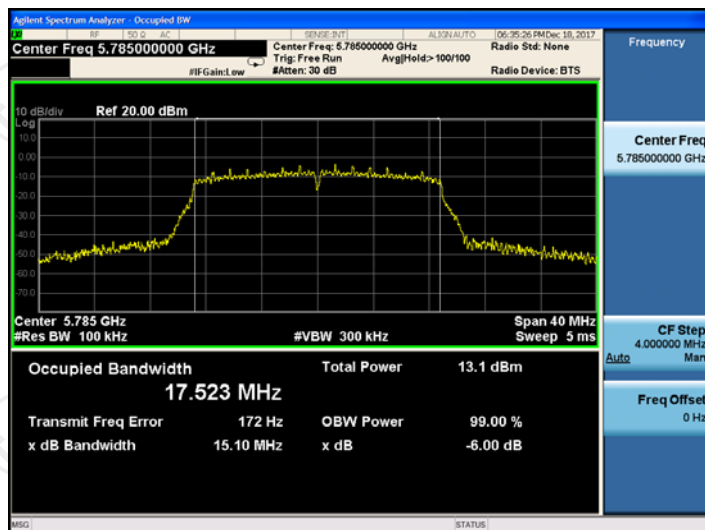


11ac(HT20)

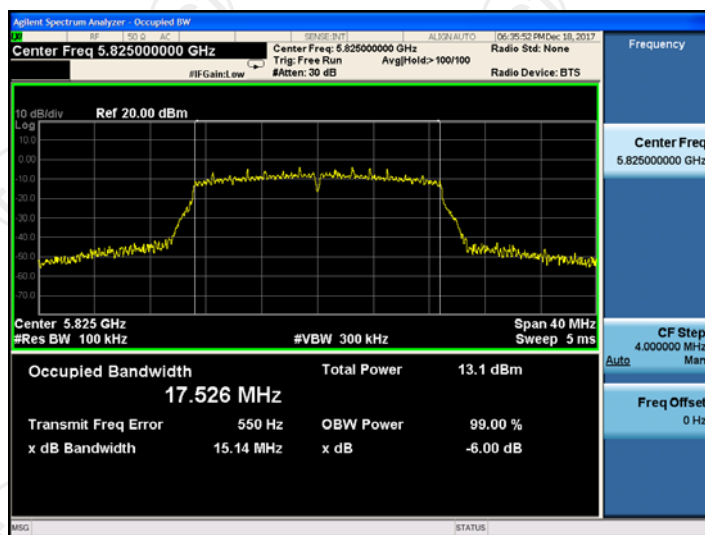
CH149



CH157

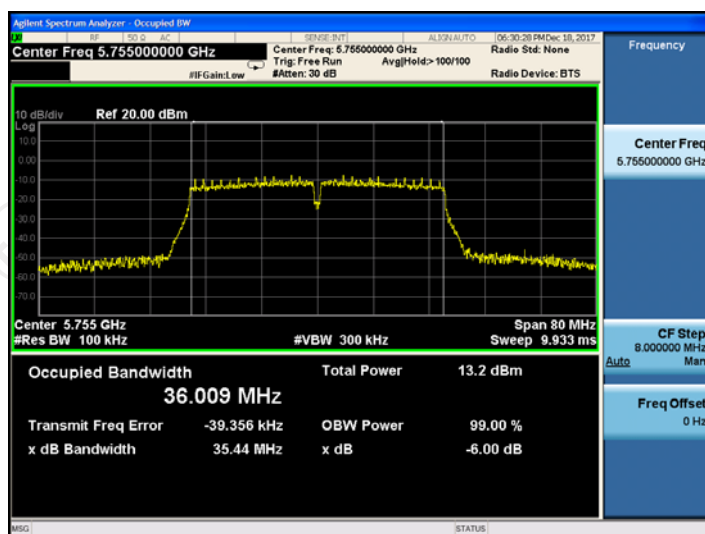


CH165

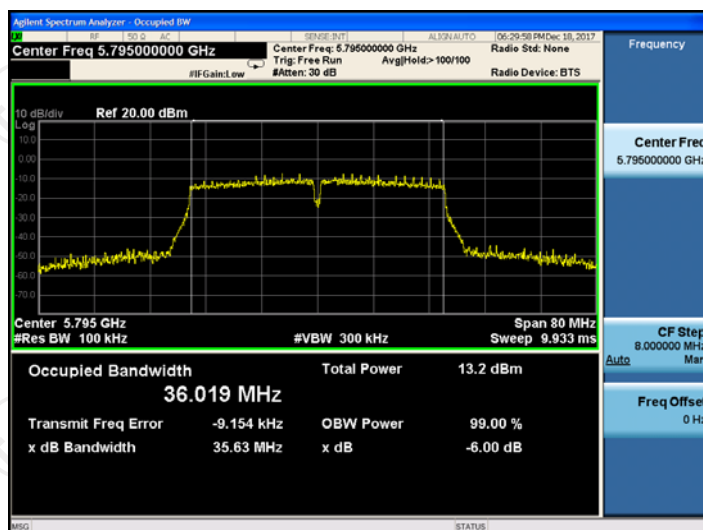


11ac(HT40)

CH151

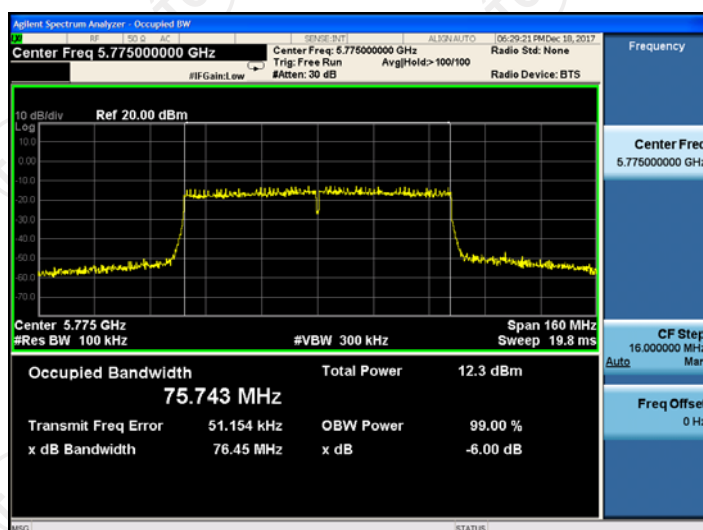


CH159



11ac(HT80)

CH155



6.5. 26dB Bandwidth and 99% Occupied Bandwidth

6.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02 Section D
Limit:	No restriction limits
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

6.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5.3. Test data

ANT 0 Band 1

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	5180	19.50	16.40
11a	CH40	5200	19.52	16.44
11a	CH48	5240	19.54	16.44
11n(HT20)	CH36	5180	19.89	17.57
11n(HT20)	CH40	5200	19.99	17.56
11n(HT20)	CH48	5240	19.83	17.55
11n(HT40)	CH38	5190	40.18	36.13
11n(HT40)	CH46	5230	40.04	36.15
11ac(HT20)	CH36	5180	19.91	17.55
11ac(HT20)	CH40	5200	20.04	17.55
11ac(HT20)	CH48	5240	19.96	17.56
11ac(HT40)	CH38	5190	39.83	36.11
11ac(HT40)	CH46	5230	40.22	36.12
11ac(HT80)	CH42	5210	81.76	76.01

Band 2A

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	5260	19.55	16.44
11a	CH60	5300	19.39	16.42
11a	CH64	5320	19.54	16.41
11n(HT20)	CH52	5260	19.91	17.55
11n(HT20)	CH60	5300	20.03	17.56
11n(HT20)	CH64	5320	19.83	17.54
11n(HT40)	CH54	5270	40.13	36.09
11n(HT40)	CH62	5310	40.36	36.07
11ac(HT20)	CH52	5260	19.86	17.54
11ac(HT20)	CH60	5300	19.92	17.58
11ac(HT20)	CH64	5320	19.83	17.55
11ac(HT40)	CH54	5270	39.70	36.07
11ac(HT40)	CH62	5310	39.80	36.09
11ac(HT80)	CH58	5290	80.86	75.83

Band 2C

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	5500	19.72	16.45
11a	CH120	5600	19.66	16.45
11a	CH144	5720	19.51	16.46
11n(HT20)	CH100	5500	19.95	17.56
11n(HT20)	CH120	5600	19.87	17.53
11n(HT20)	CH144	5720	19.97	17.55
11n(HT40)	CH102	5510	40.15	36.14
11n(HT40)	CH118	5590	40.21	36.10
11n(HT40)	CH142	5710	39.93	36.13
11ac(HT20)	CH100	5500	19.81	17.56
11ac(HT20)	CH120	5600	19.94	17.52
11ac(HT20)	CH144	5720	19.90	17.54
11ac(HT40)	CH102	5510	40.14	36.13
11ac(HT40)	CH118	5590	39.98	36.10
11ac(HT40)	CH142	5710	40.24	36.11
11ac(HT80)	CH106	5530	81.16	75.97
11ac(HT80)	CH138	5690	81.12	75.81

Band 3

Mode	Test channel	Frequency (MHz)	99% Bandwidth (MHz)
11a	CH149	5745	16.47
11a	CH157	5785	16.46
11a	CH165	5825	16.39
11n(HT20)	CH149	5745	17.53
11n(HT20)	CH157	5785	17.54
11n(HT20)	CH165	5825	17.55
11n(HT40)	CH151	5755	36.16
11n(HT40)	CH159	5795	36.10
11ac(HT20)	CH149	5745	17.57
11ac(HT20)	CH157	5785	17.57
11ac(HT20)	CH165	5825	17.53
11ac(HT40)	CH151	5755	36.16
11ac(HT40)	CH159	5795	36.05
11ac(HT80)	CH155	5775	76.12

ANT 1 Band 1

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	5180	19.59	16.43
11a	CH40	5200	19.58	16.43
11a	CH48	5240	19.51	16.42
11n(HT20)	CH36	5180	19.83	17.54
11n(HT20)	CH40	5200	19.83	17.54
11n(HT20)	CH48	5240	19.95	17.53
11n(HT40)	CH38	5190	40.10	36.13
11n(HT40)	CH46	5230	40.15	36.12
11ac(HT20)	CH36	5180	20.01	17.53
11ac(HT20)	CH40	5200	19.96	17.54
11ac(HT20)	CH48	5240	20.00	17.55
11ac(HT40)	CH38	5190	39.97	36.14
11ac(HT40)	CH46	5230	39.90	36.07
11ac(HT80)	CH42	5210	81.33	75.92

Band 2A

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	5260	19.57	16.43
11a	CH60	5300	19.58	16.45
11a	CH64	5320	19.56	16.39
11n(HT20)	CH52	5260	19.99	17.52
11n(HT20)	CH60	5300	19.95	17.54
11n(HT20)	CH64	5320	19.90	17.52
11n(HT40)	CH54	5270	40.06	36.13
11n(HT40)	CH62	5310	40.12	36.08
11ac(HT20)	CH52	5260	19.91	17.54
11ac(HT20)	CH60	5300	19.94	17.53
11ac(HT20)	CH64	5320	19.80	17.52
11ac(HT40)	CH54	5270	40.21	36.10
11ac(HT40)	CH62	5310	40.05	36.10
11ac(HT80)	CH58	5290	81.23	75.81

Band 2C

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	5500	19.60	16.42
11a	CH120	5600	19.50	16.44
11a	CH144	5720	19.51	16.41
11n(HT20)	CH100	5500	19.98	17.52
11n(HT20)	CH120	5600	19.89	17.53
11n(HT20)	CH144	5720	19.93	17.56
11n(HT40)	CH102	5510	40.22	36.10
11n(HT40)	CH118	5590	40.23	36.12
11n(HT40)	CH142	5710	39.96	36.20
11ac(HT20)	CH100	5500	19.99	17.53
11ac(HT20)	CH120	5600	19.94	17.55
11ac(HT20)	CH144	5720	19.91	17.55
11ac(HT40)	CH102	5510	40.16	36.11
11ac(HT40)	CH118	5590	40.03	36.10
11ac(HT40)	CH142	5710	40.32	36.12
11ac(HT80)	CH106	5530	81.78	75.91
11ac(HT80)	CH138	5690	81.44	75.97

Band 3

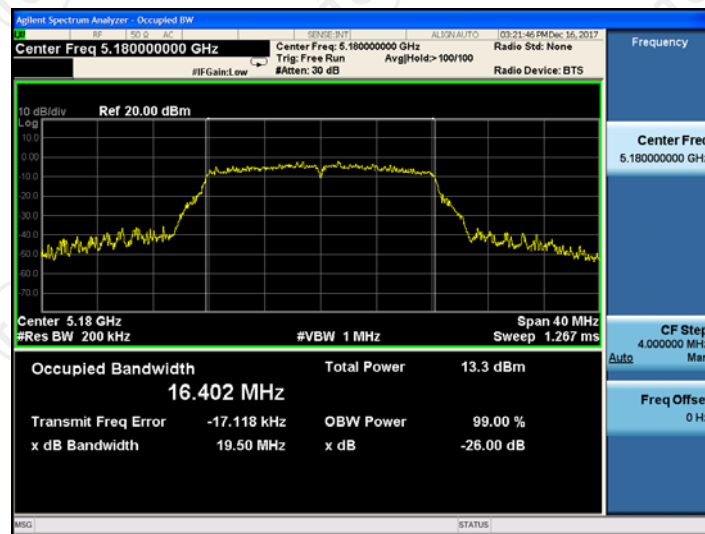
Mode	Test channel	Frequency (MHz)	99% Bandwidth (MHz)
11a	CH149	5745	16.45
11a	CH157	5785	16.45
11a	CH165	5825	16.42
11n(HT20)	CH149	5745	17.55
11n(HT20)	CH157	5785	17.56
11n(HT20)	CH165	5825	17.55
11n(HT40)	CH151	5755	36.19
11n(HT40)	CH159	5795	36.14
11ac(HT20)	CH149	5745	17.53
11ac(HT20)	CH157	5785	17.53
11ac(HT20)	CH165	5825	17.55
11ac(HT40)	CH151	5755	36.11
11ac(HT40)	CH159	5795	36.10
11ac(HT80)	CH155	5775	76.01

Test plots as follows:

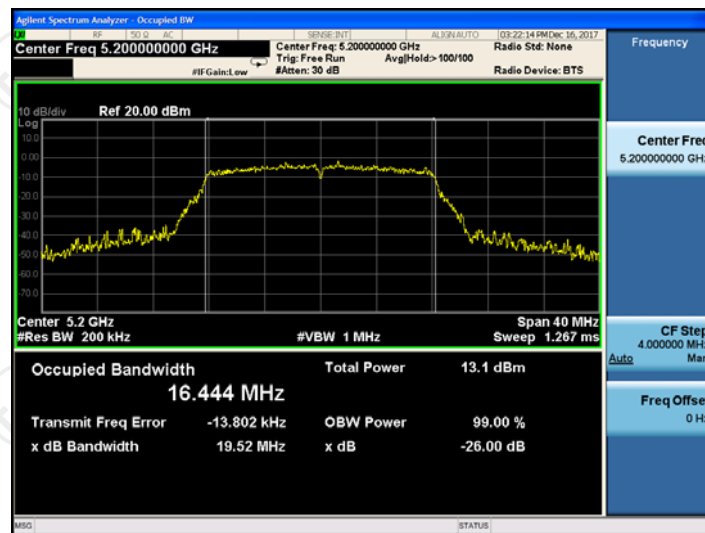
ANT 0 Band 1 (5180-5240 MHz)

11a

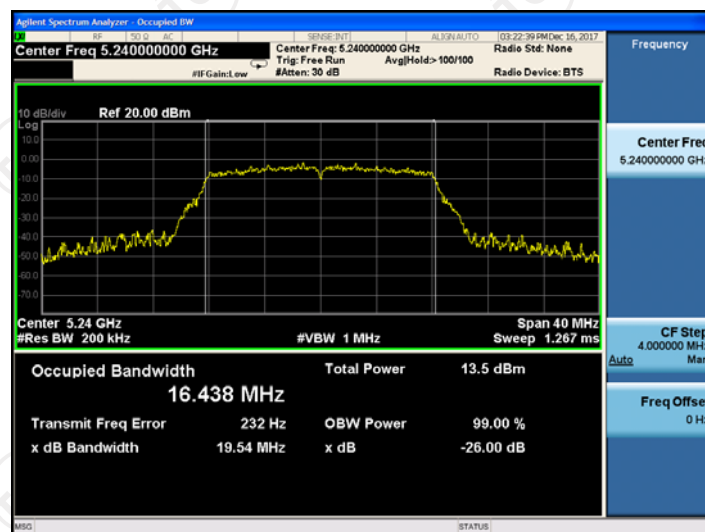
CH36



CH40

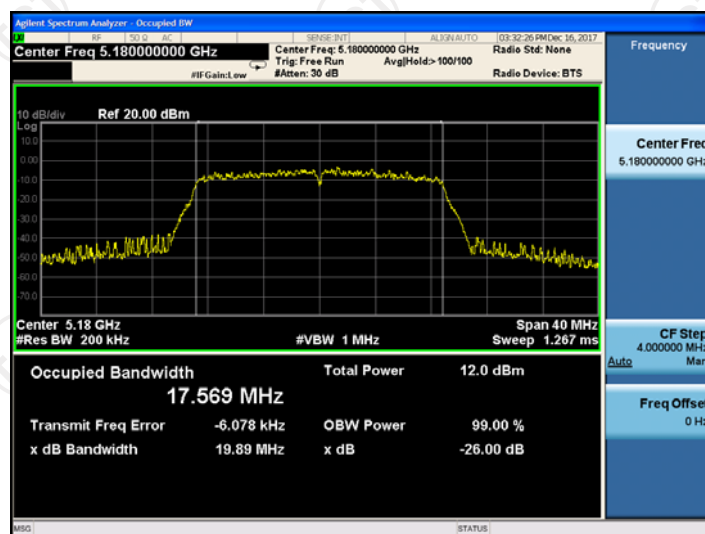


CH48

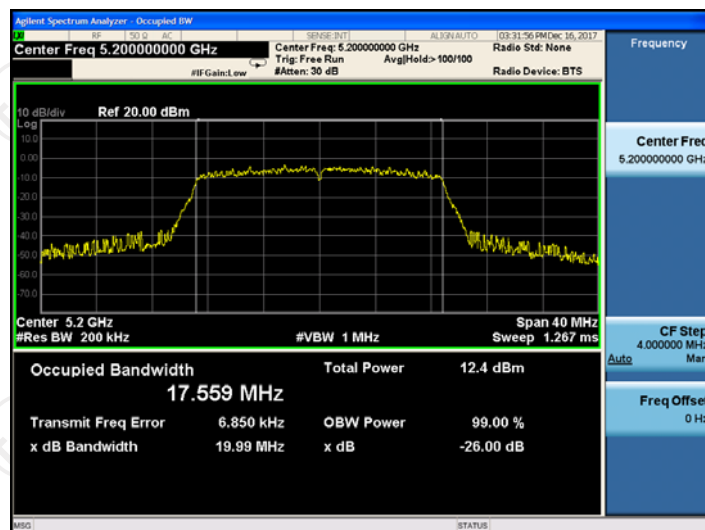


11n(HT20)

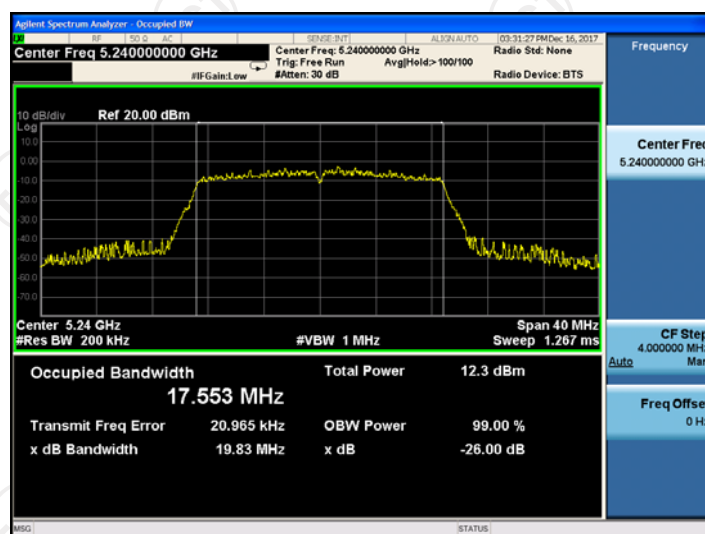
CH36



CH40

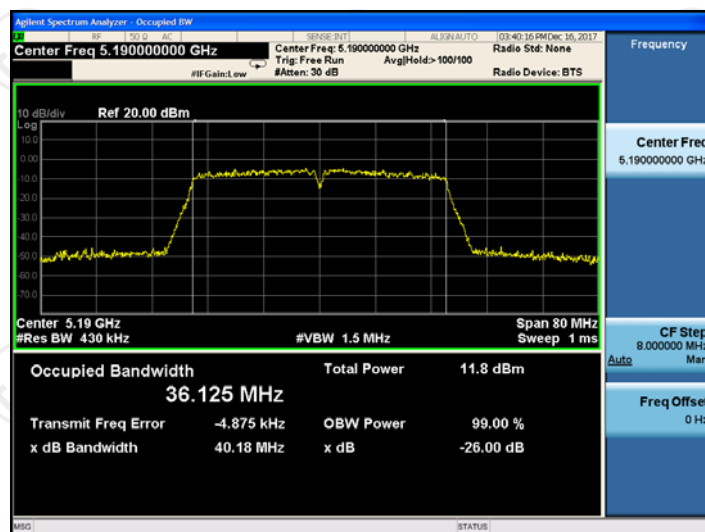


CH48

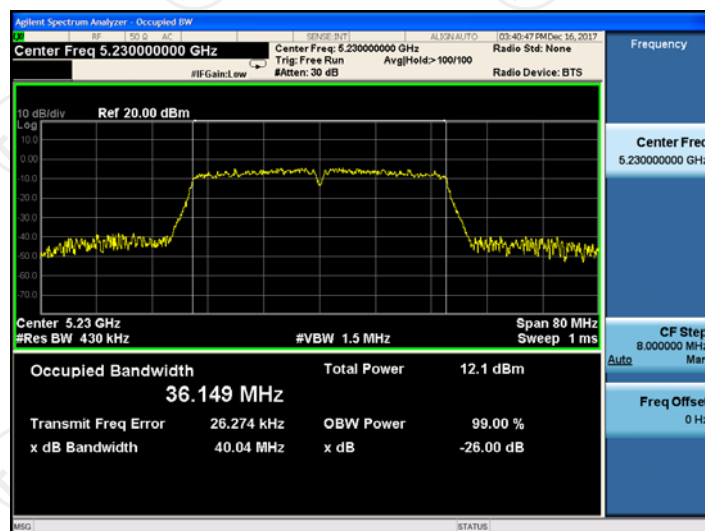


11n(HT40)

CH38

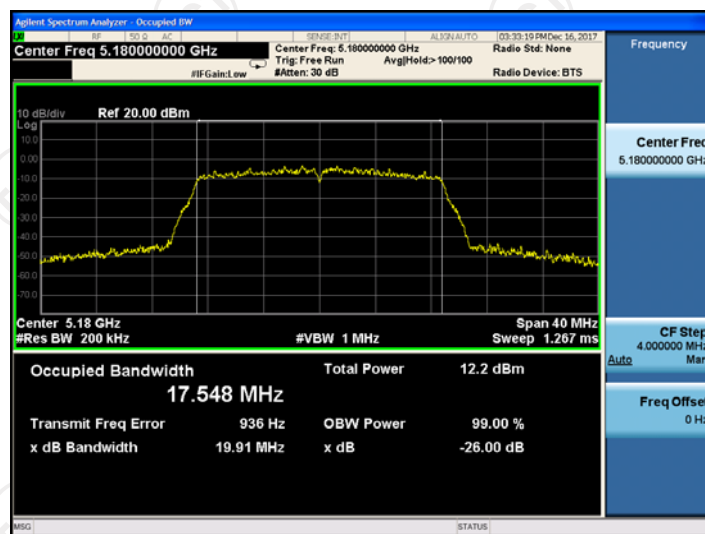


CH46

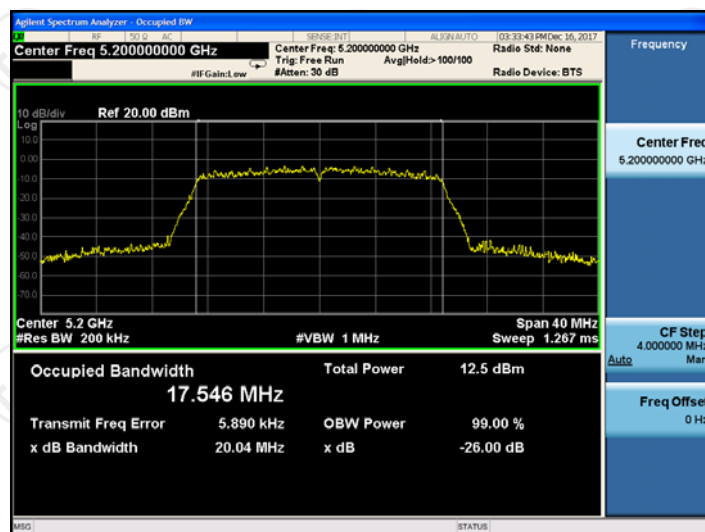


11ac(HT20)

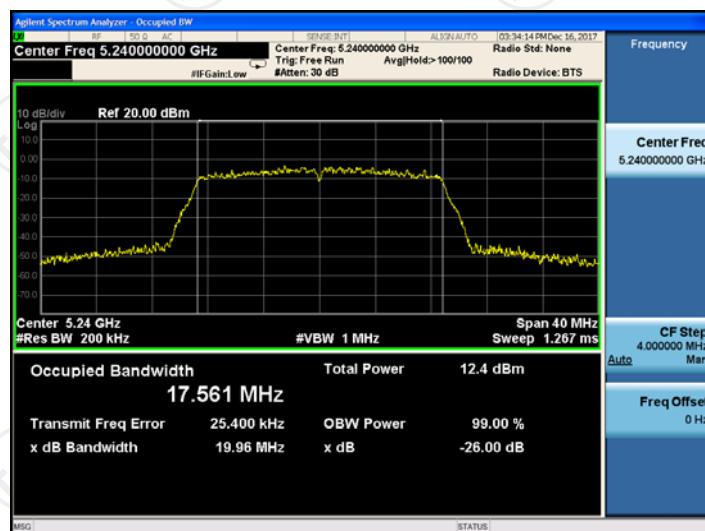
CH36



CH40

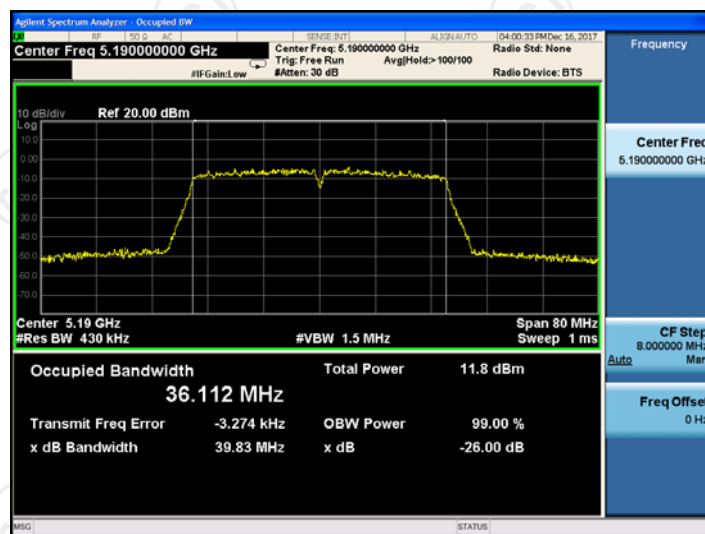


CH48

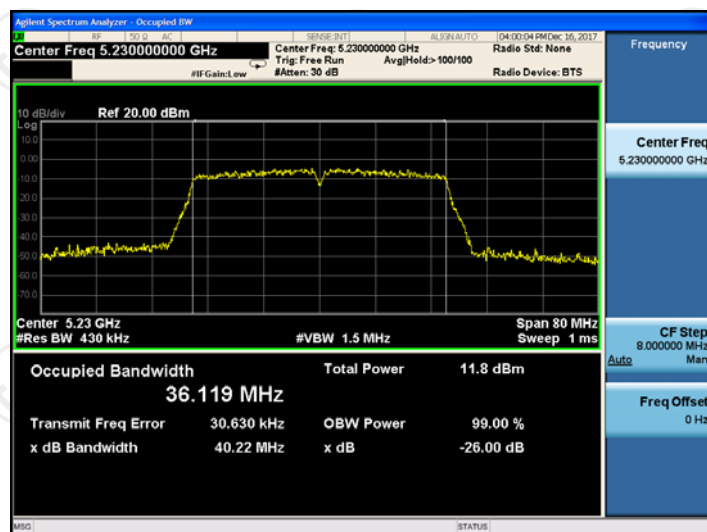


11ac(HT40)

CH38

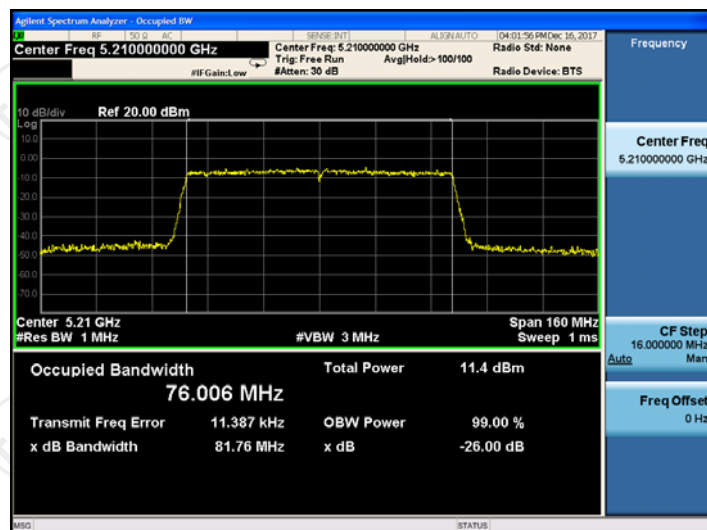


CH46



11ac(HT80)

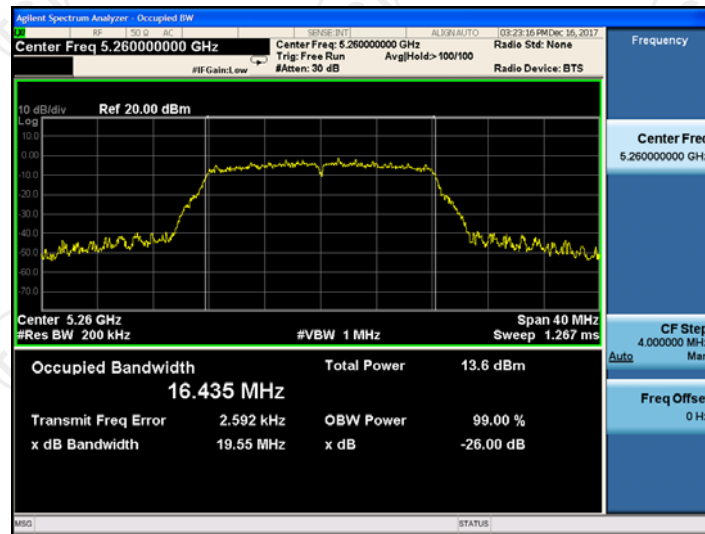
CH42



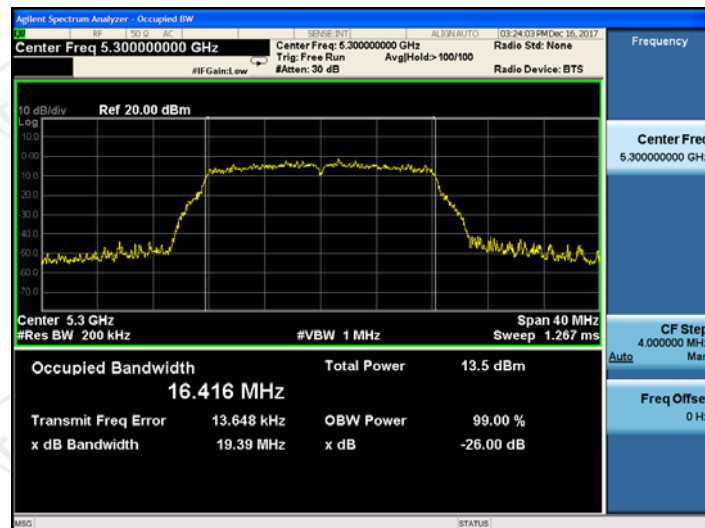
Band 2A(5260-5320MHz)

11a

CH52



CH60



CH64

