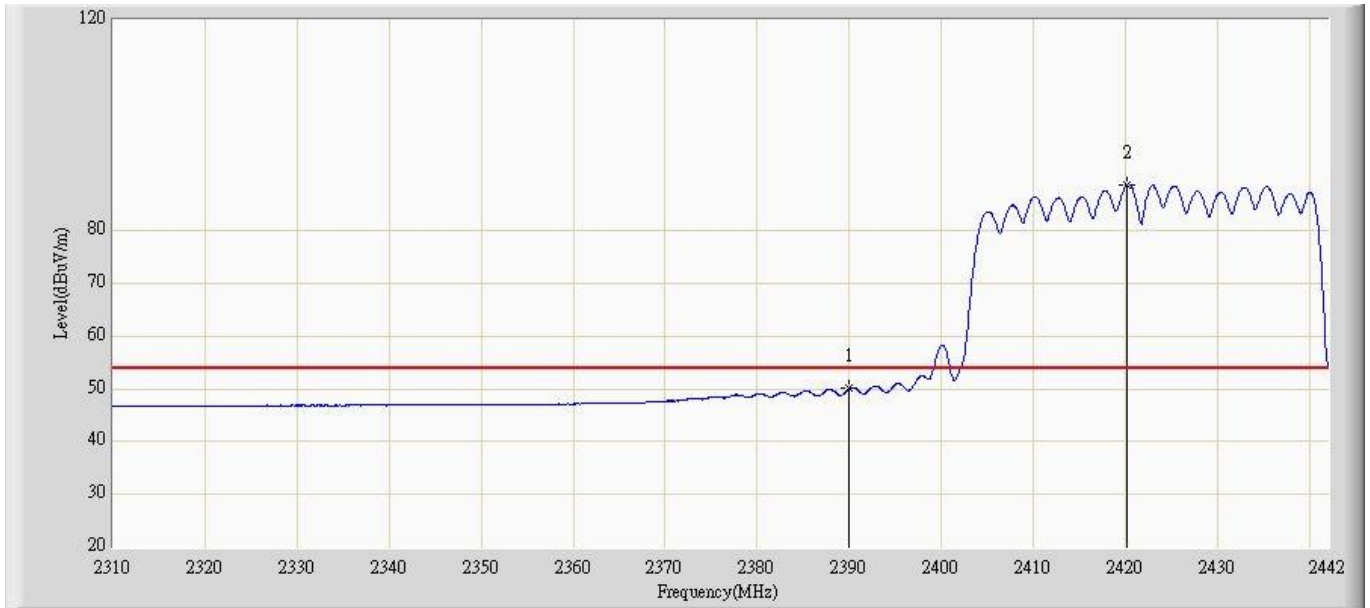
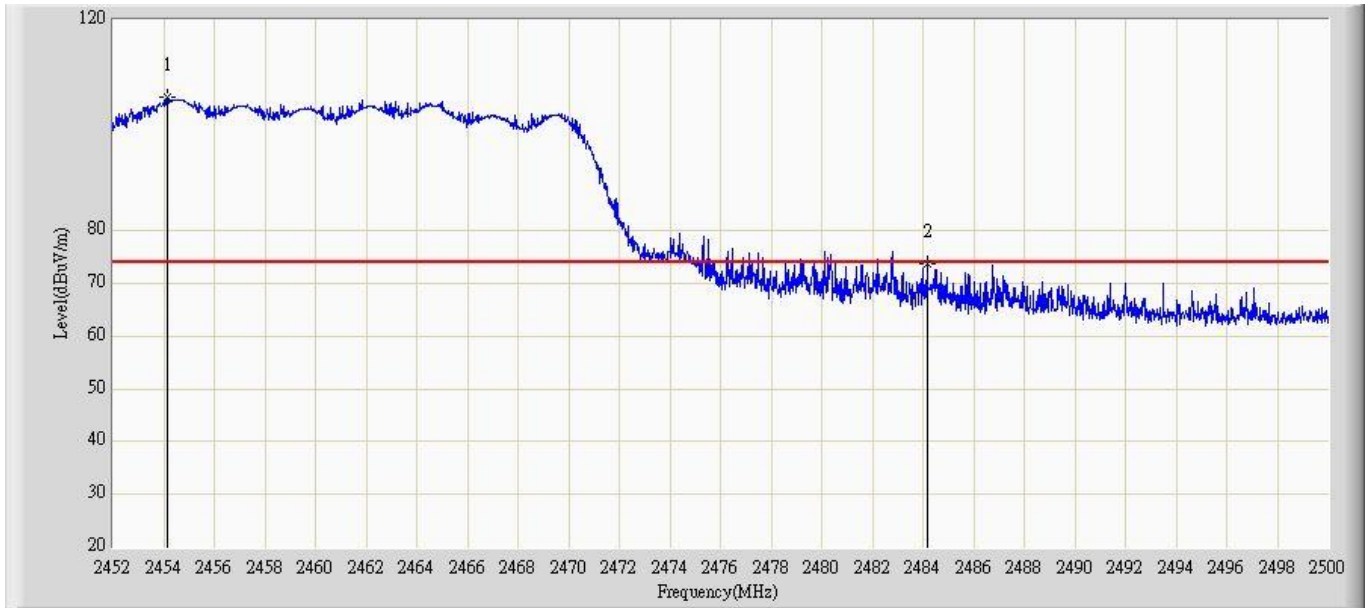


Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 20:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 4: Transmit at CH3 by 802.11n(40MHz) ant0+1	



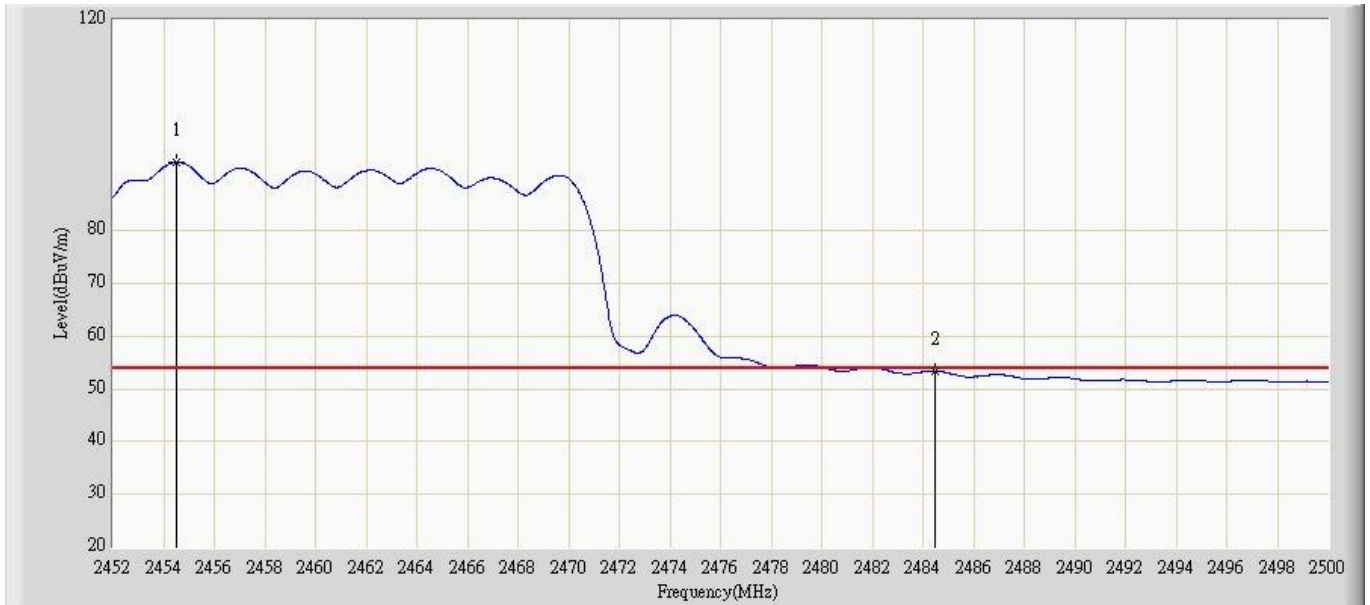
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	50.057	13.070	-3.943	54.000	36.988	AV
2		*	2420.154	88.814	51.678	N/A	N/A	37.136	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 20:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 4: Transmit at CH9 by 802.11n(40MHz) ant0+1	



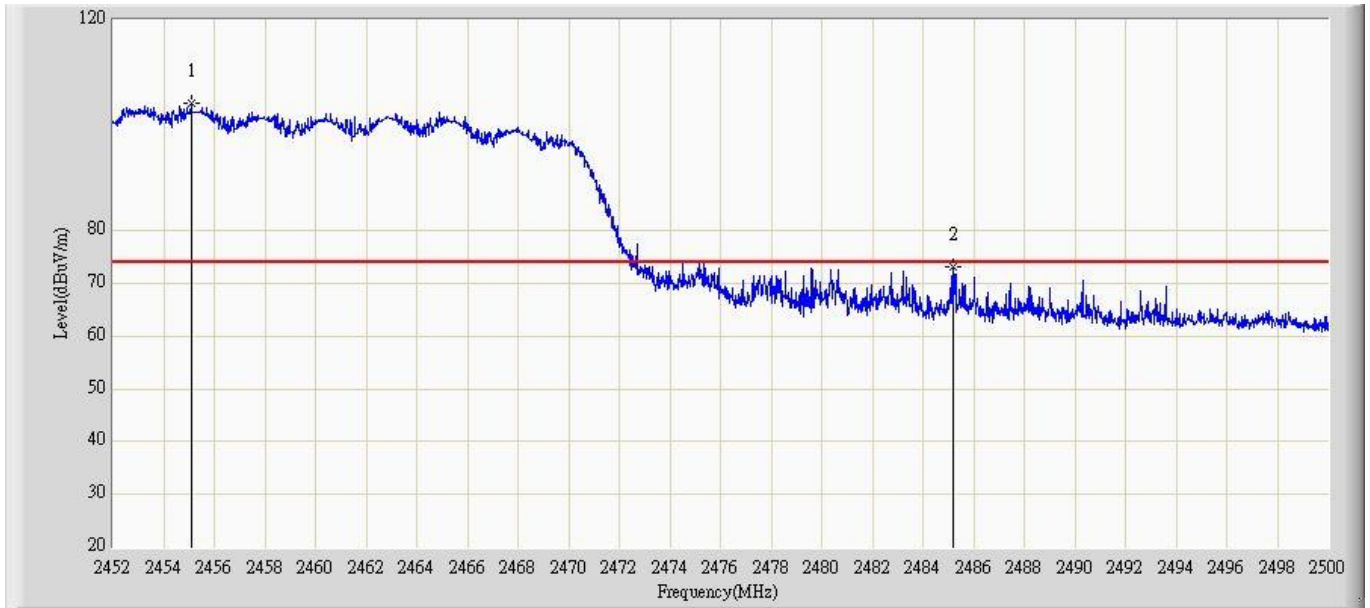
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2454.136	105.431	67.215	N/A	N/A	38.215	PK
2			2484.160	73.655	35.174	-0.345	74.000	38.480	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 20:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 4: Transmit at CH9 by 802.11n(40MHz) ant0+1	



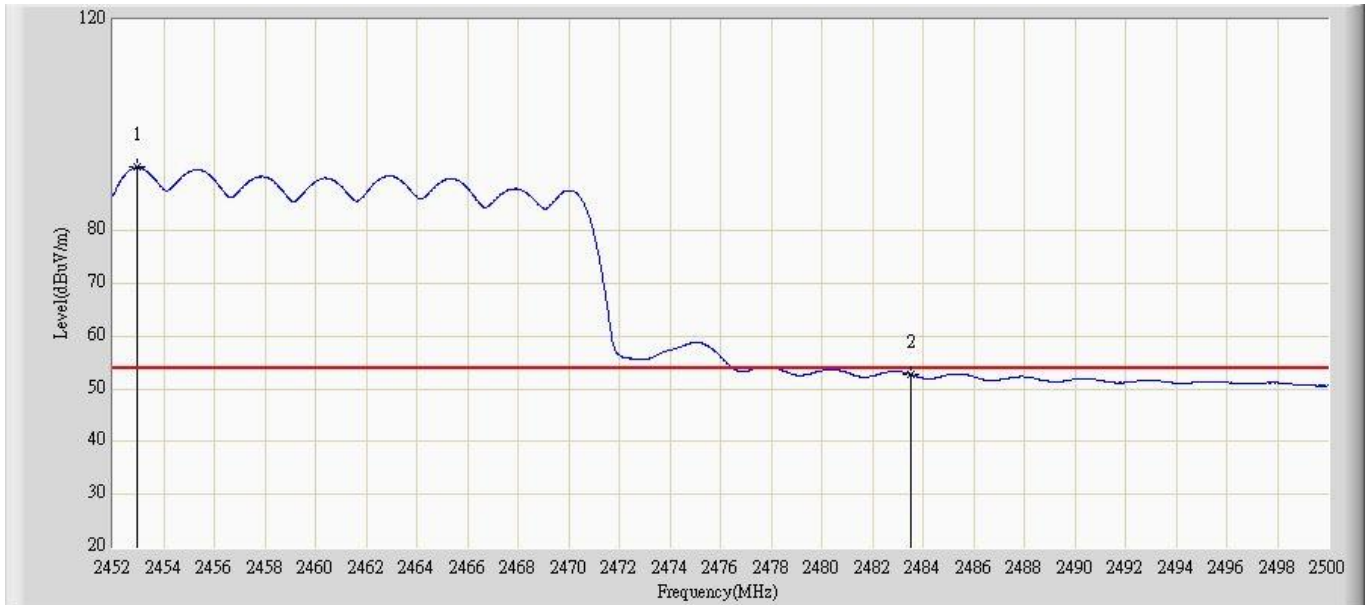
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2454.520	92.989	54.770	N/A	N/A	38.219	AV
2			2484.448	53.386	14.903	-0.614	54.000	38.484	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 20:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 4: Transmit at CH9 by 802.11n(40MHz) ant0+1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.096	104.301	66.997	N/A	N/A	37.303	PK
2			2485.216	73.147	35.698	-0.853	74.000	37.450	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 20:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 4: Transmit at CH9 by 802.11n(40MHz) ant0+1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2452.936	92.058	54.765	N/A	N/A	37.293	AV
2			2483.500	52.767	15.326	-1.233	54.000	37.441	AV

7. Operation Frequency Range of 20dB Bandwidth

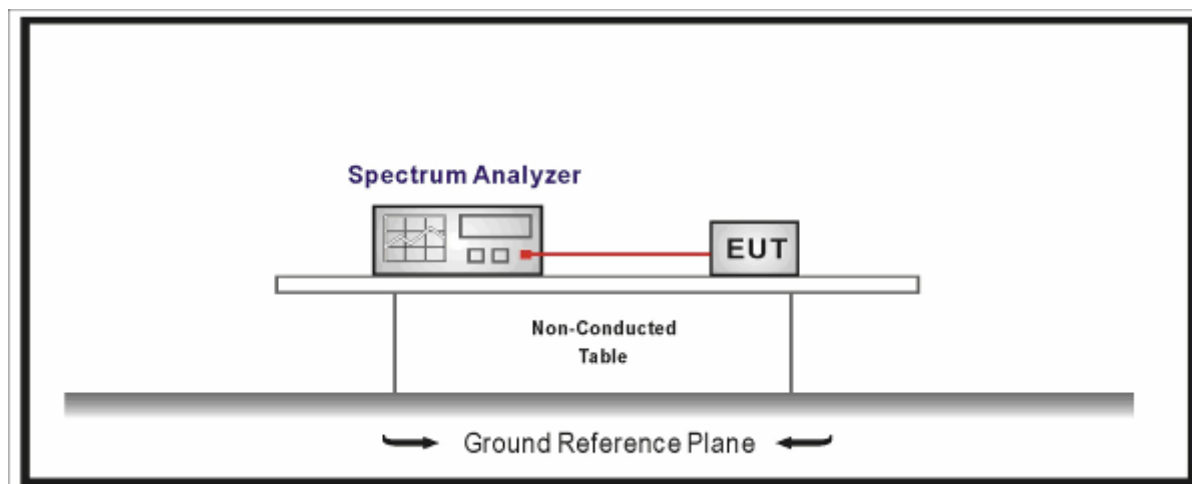
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2015.01.07
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

7.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

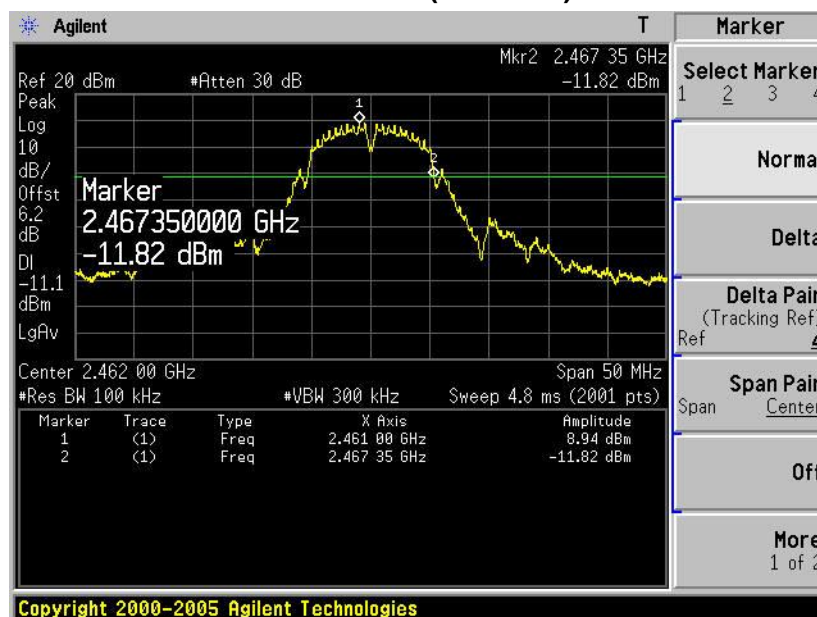
7.6. Test Result

Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11b (Ant 0)

Channel 01 (2412MHz)

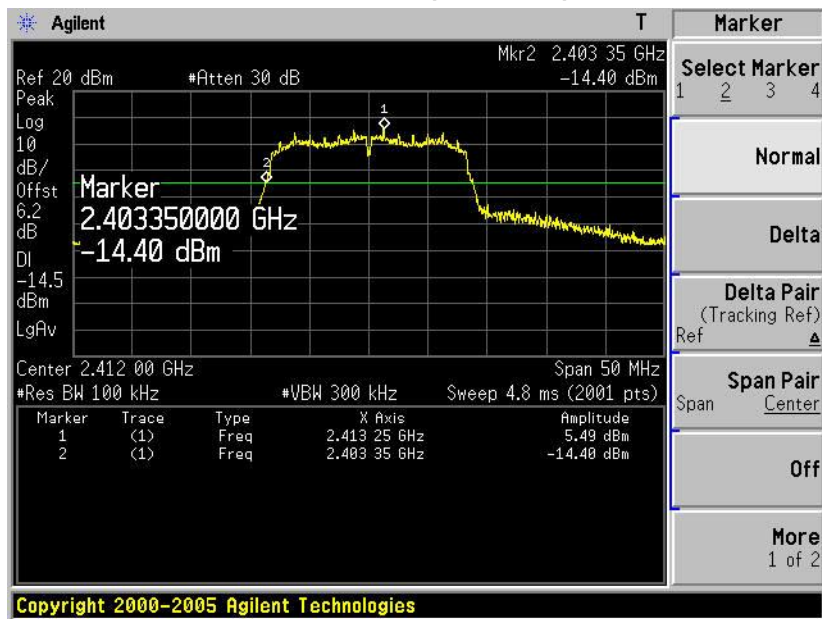


Channel 11 (2462MHz)

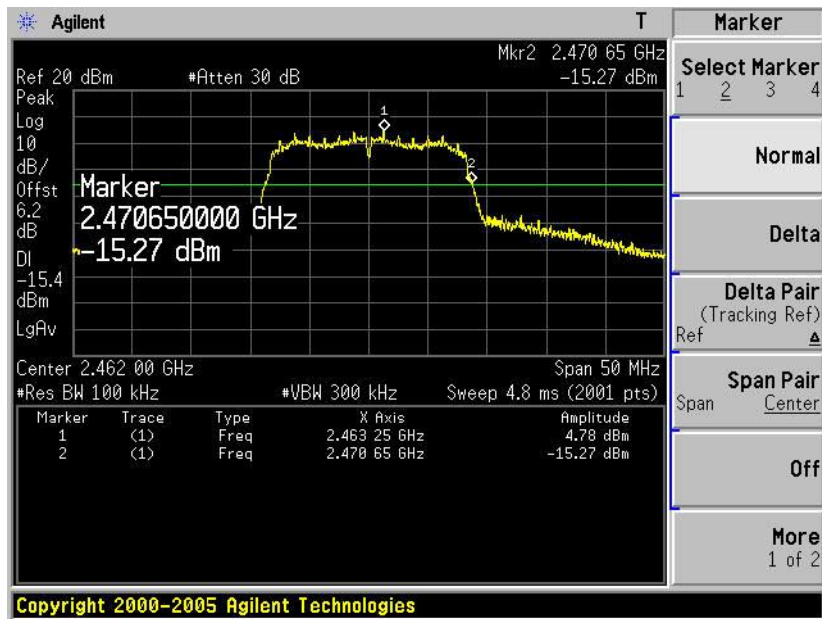


Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g (Ant 0)

Channel 01 (2412MHz)

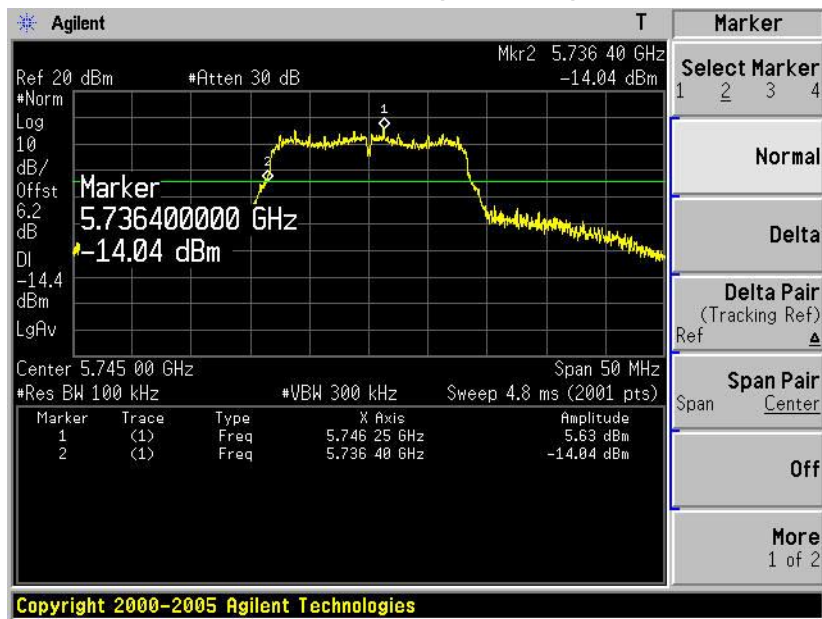


Channel 11 (2462MHz)

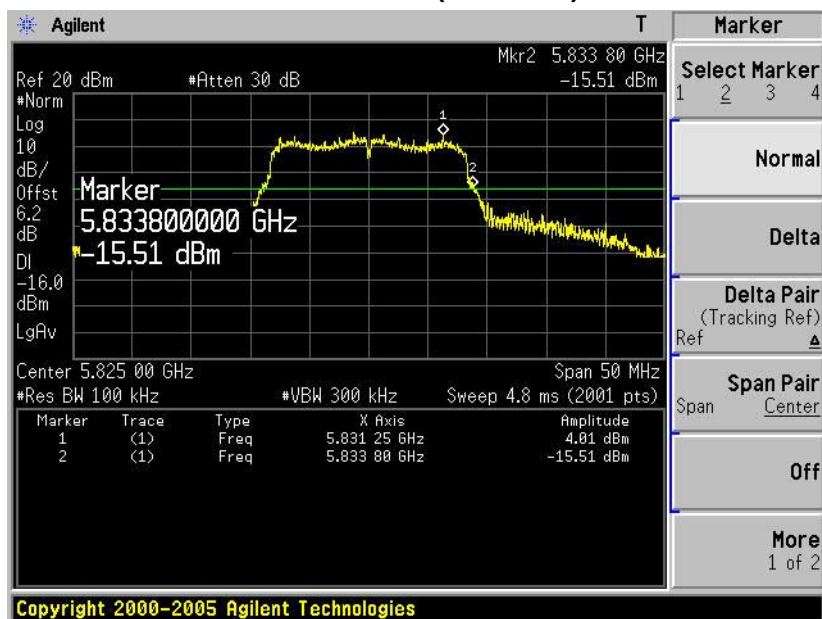


Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11a (Ant 0)

Channel 149 (5745MHz)

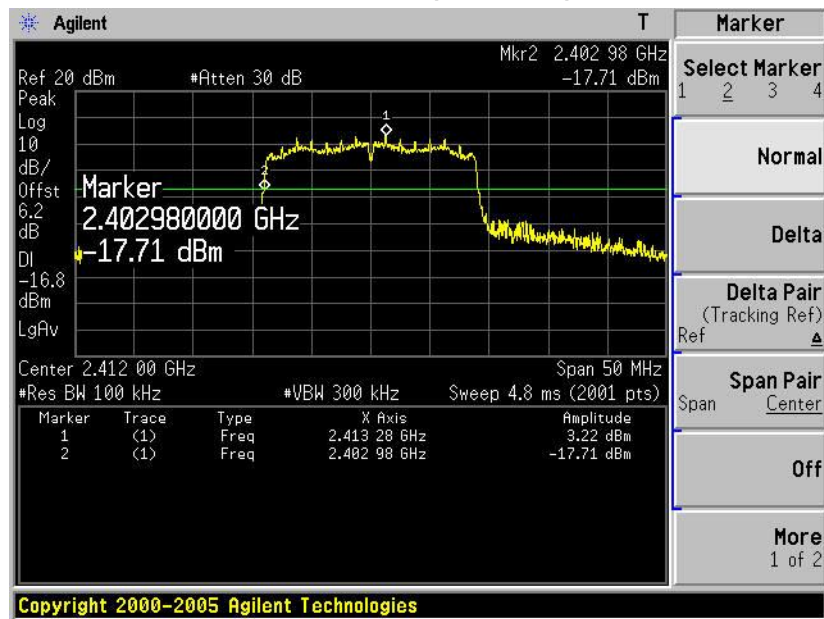


Channel 165 (5825MHz)



Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 4: Transmit by 802.11n(20MHz) (Ant 0)

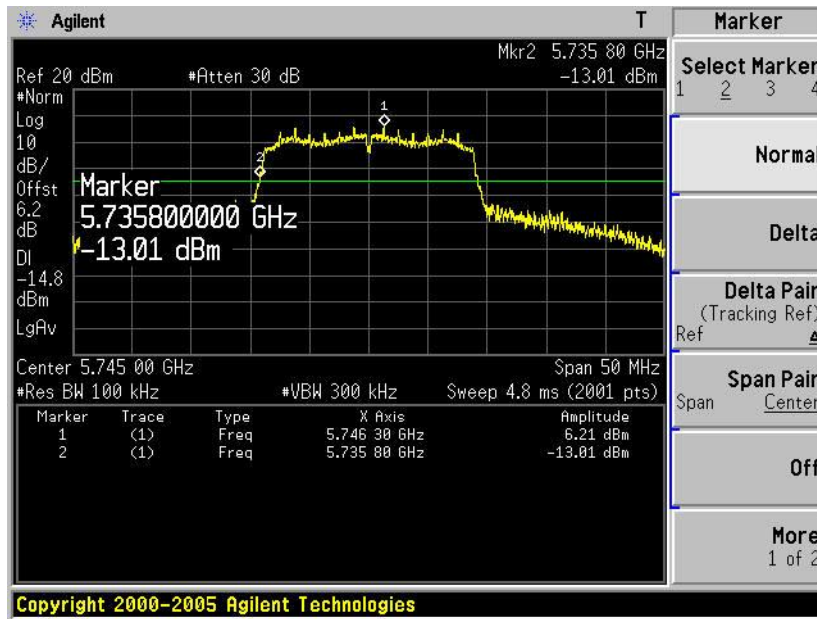
Channel 01 (2412MHz)



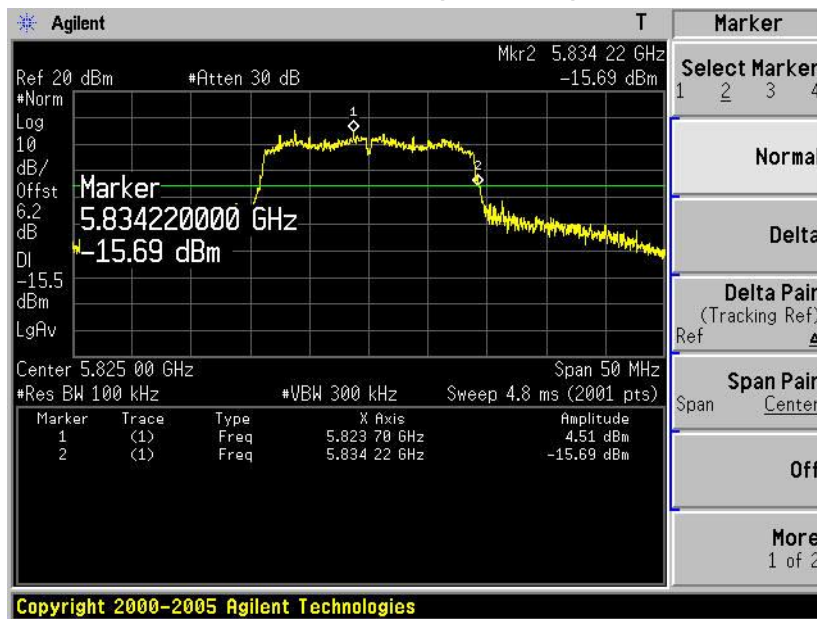
Channel 11 (2462MHz)



Channel 149 (5745MHz)

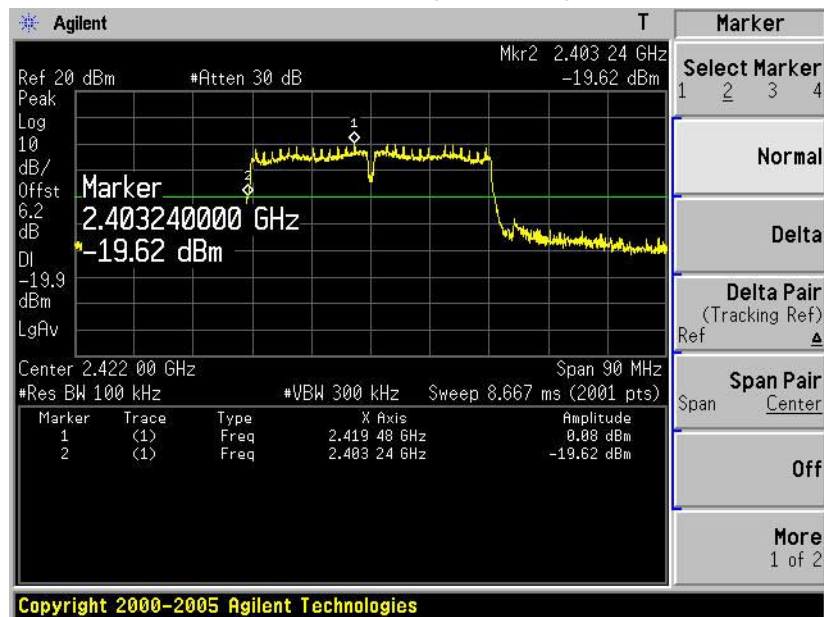


Channel 165 (5825MHz)

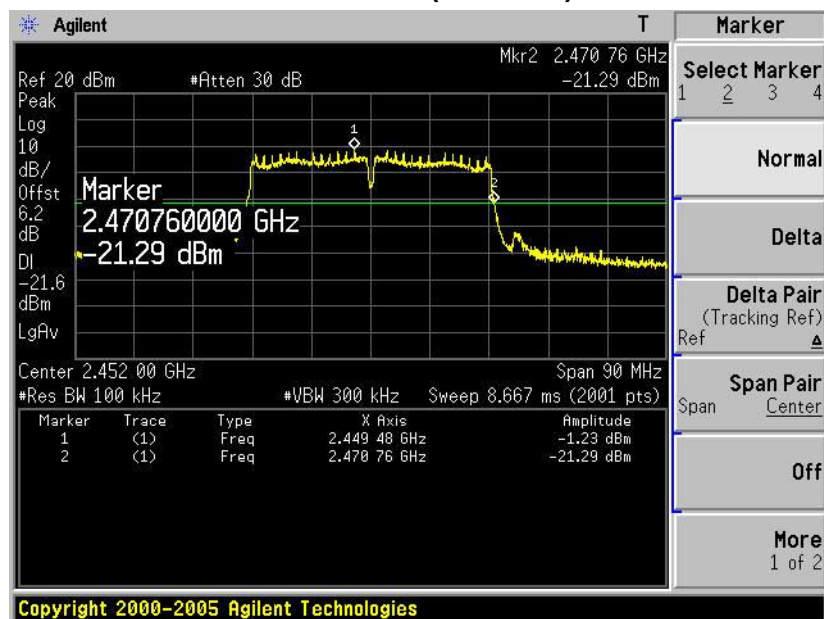


Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 6: Transmit by 802.11n(40MHz) (Ant 0)

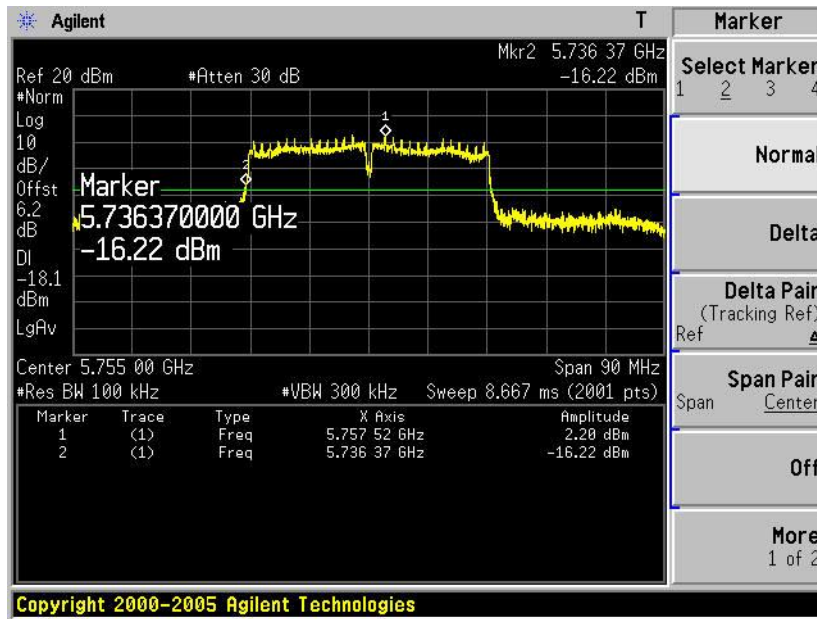
Channel 03 (2422MHz)



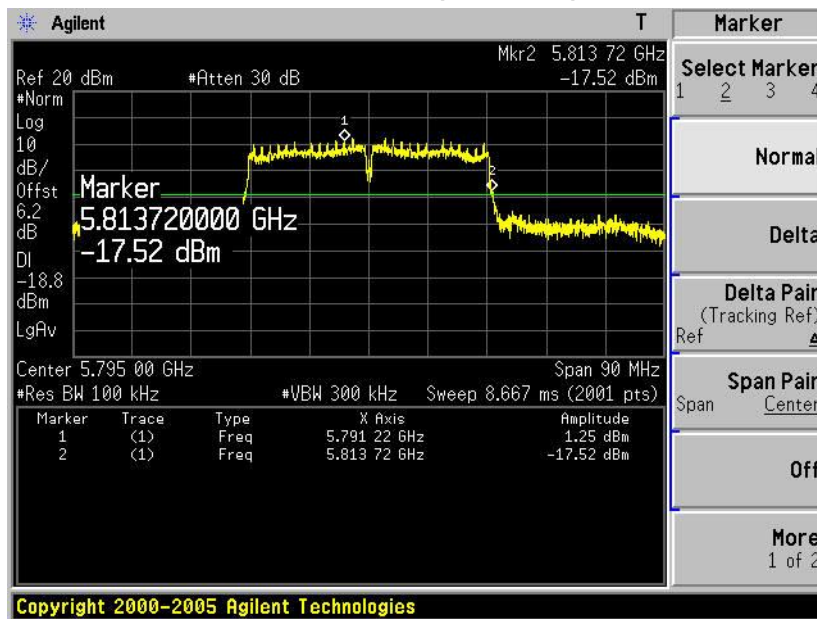
Channel 09 (2452MHz)



Channel 151 (5755MHz)

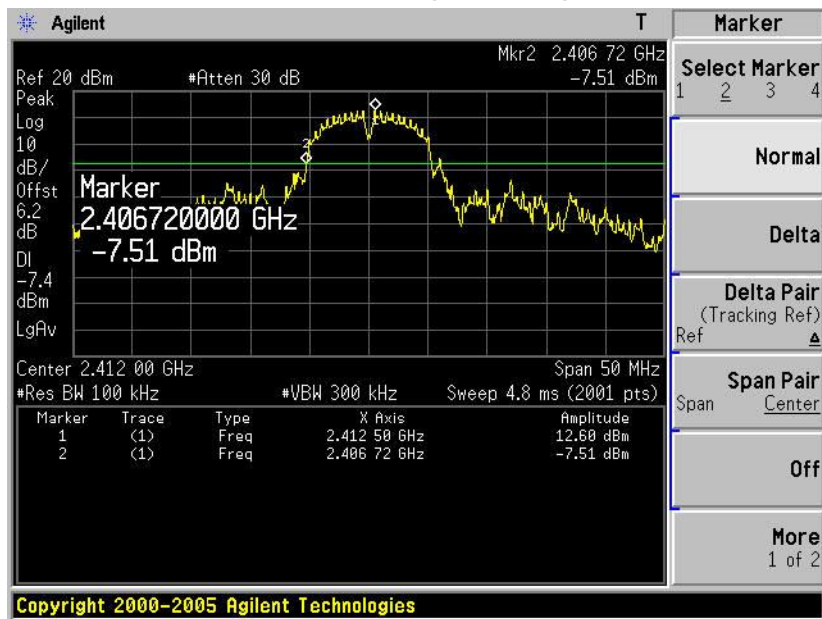


Channel 159 (5795MHz)



Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11b (Ant 1)

Channel 01 (2412MHz)

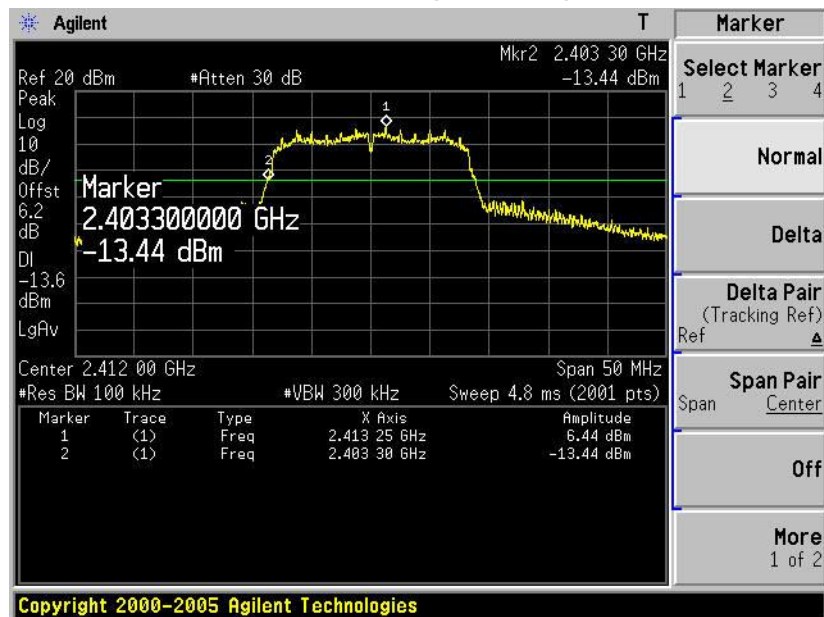


Channel 11 (2462MHz)



Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g (Ant 1)

Channel 01 (2412MHz)

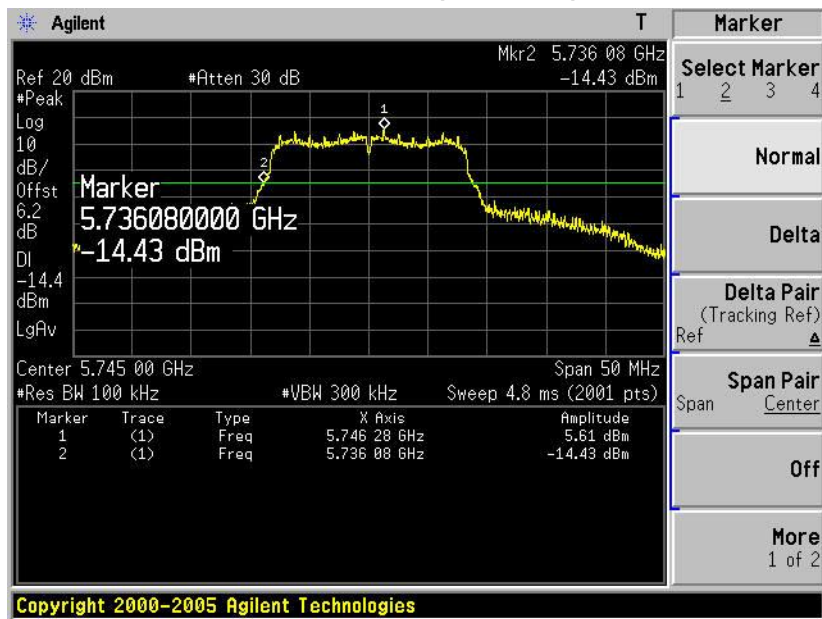


Channel 11 (2462MHz)



Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11a (Ant 1)

Channel 149 (5745MHz)

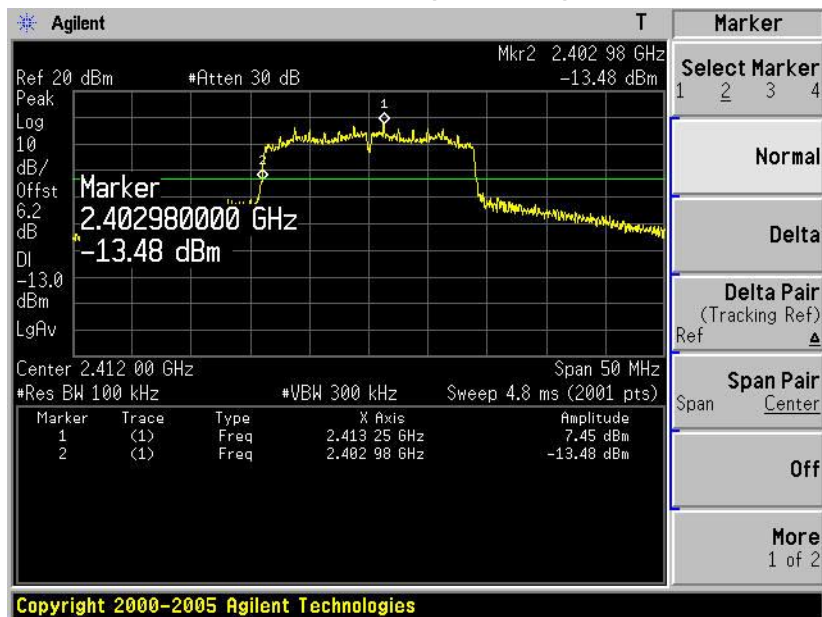


Channel 165 (5825MHz)

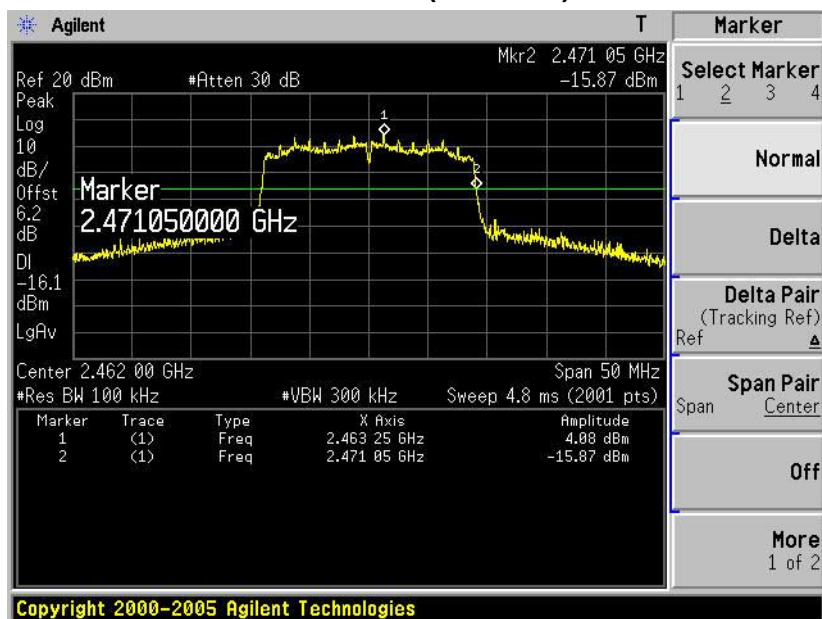


Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 4: Transmit by 802.11n(20MHz) (Ant 1)

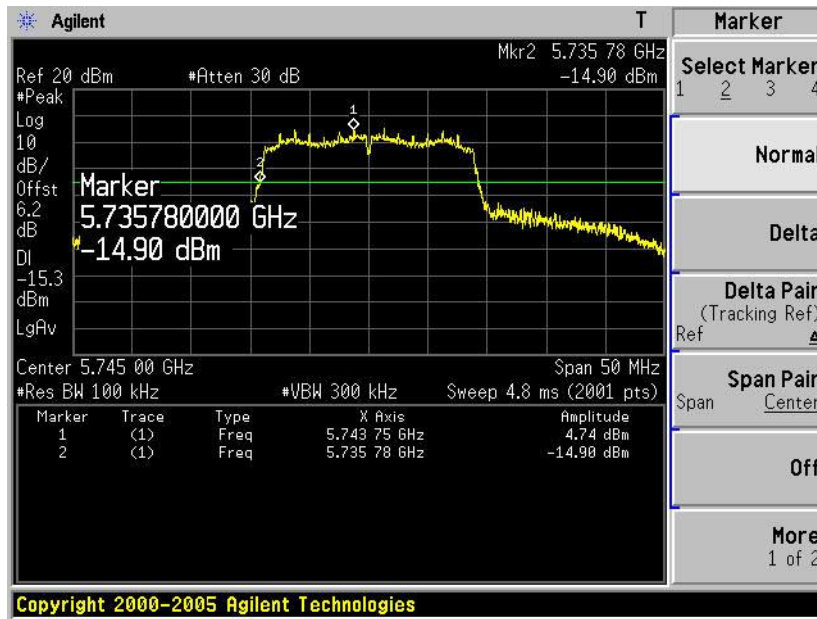
Channel 01 (2412MHz)



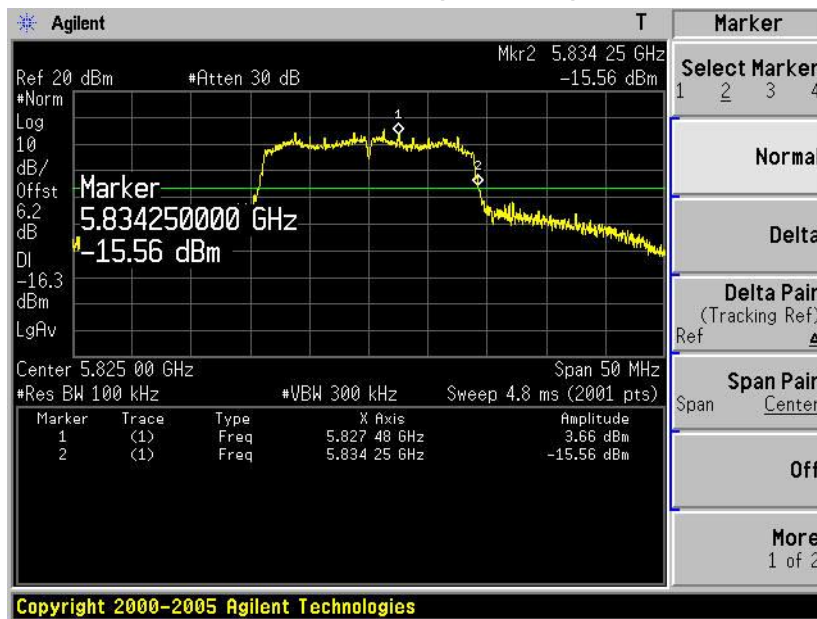
Channel 11 (2462MHz)



Channel 149 (5745MHz)

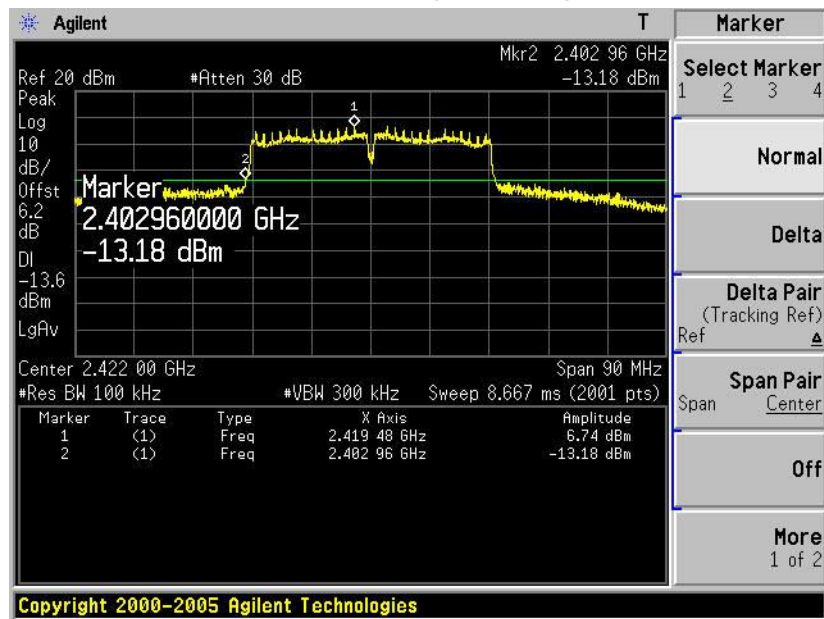


Channel 165 (5825MHz)

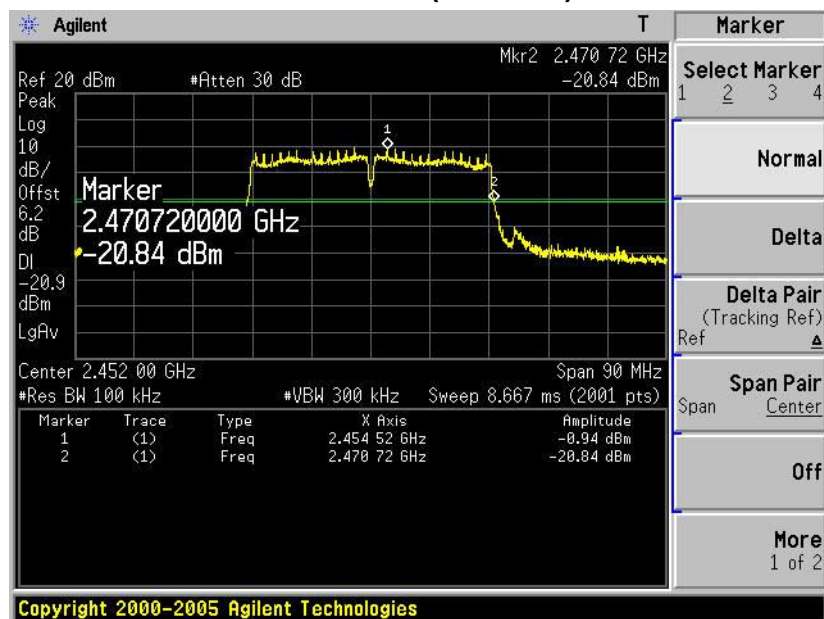


Product	: IP-STB
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 6: Transmit by 802.11n(40MHz) (Ant 1)

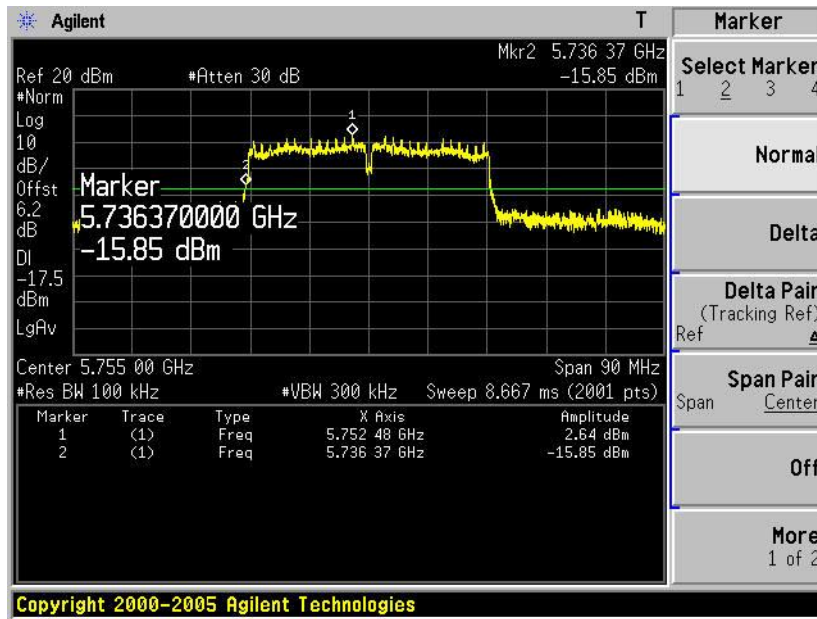
Channel 03 (2422MHz)



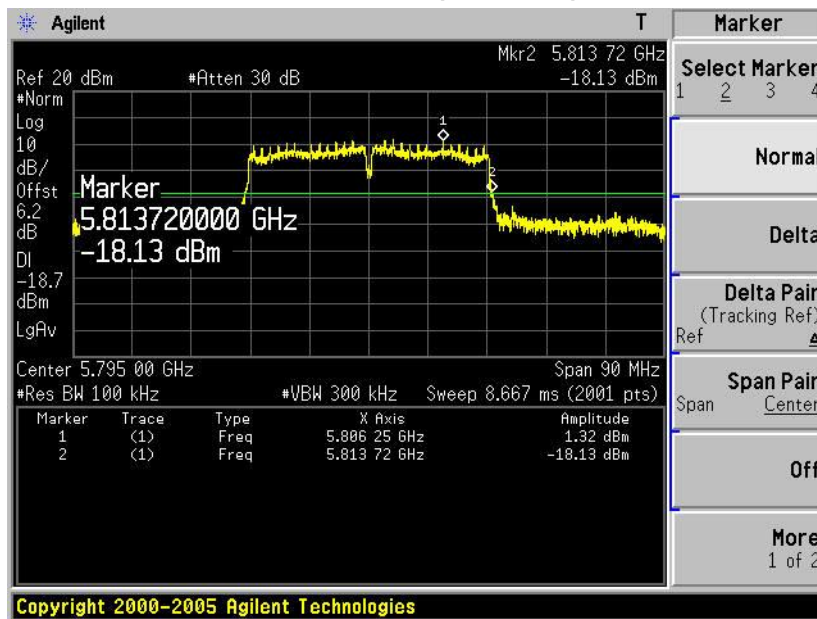
Channel 09 (2452MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



8. Occupied Bandwidth

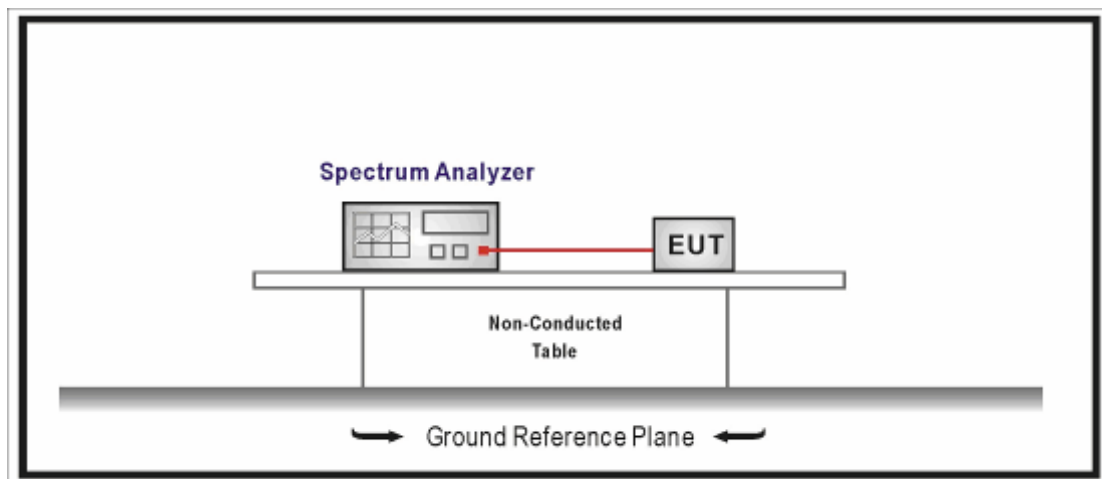
8.1. Test Equipment

Occupied Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2015.01.07
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

8.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

8.5. Uncertainty

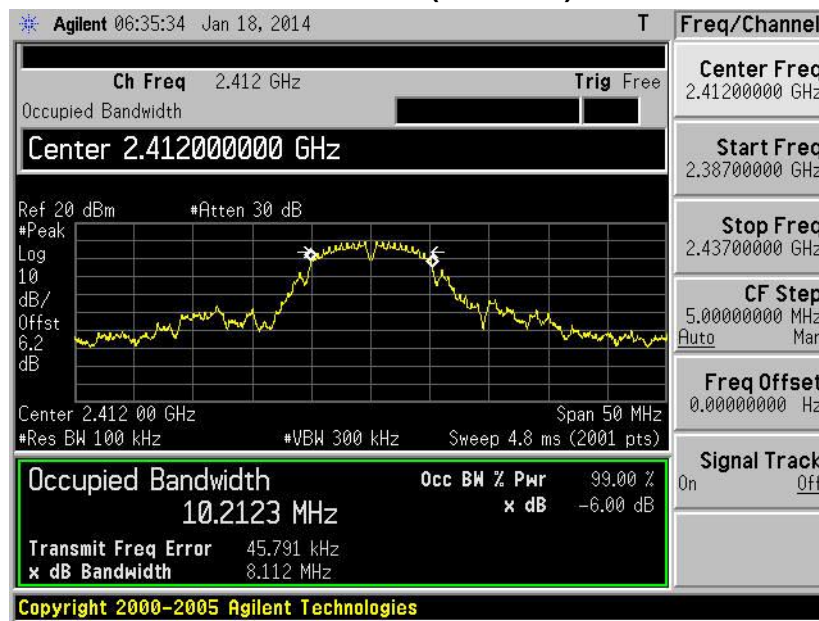
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

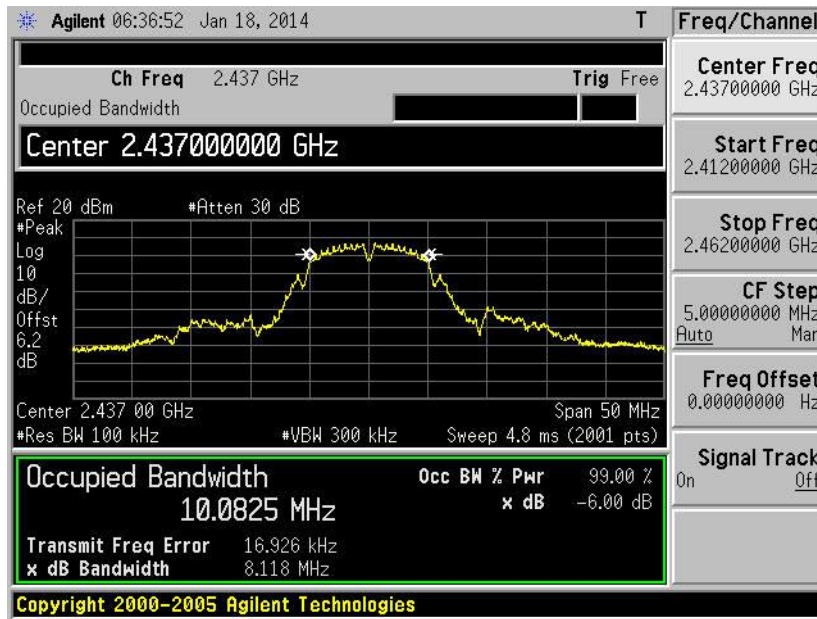
Product	:	IP-STB
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	8112	500	Pass
06	2437	8118	500	Pass
11	2462	8096	500	Pass

Channel 01 (2412MHz)



Channel 06 (2437MHz)



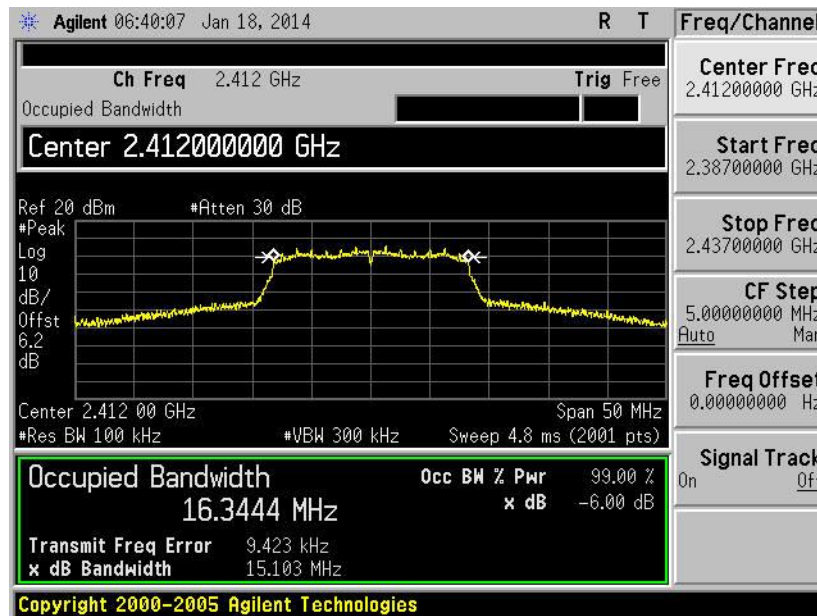
Channel 11 (2462MHz)



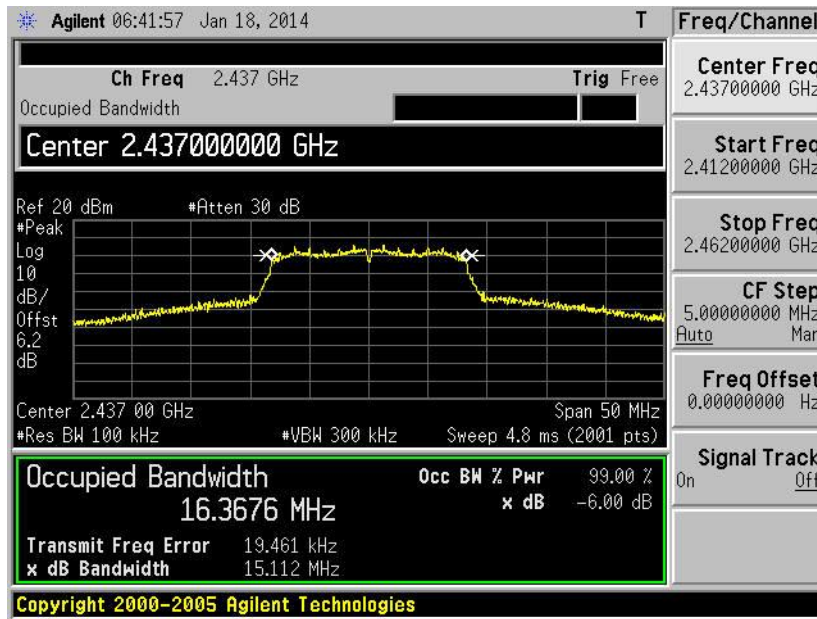
Product	: IP-STB
Test Item	: 6dB Occupied Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g (Ant 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15103	500	Pass
06	2437	15112	500	Pass
11	2462	15075	500	Pass

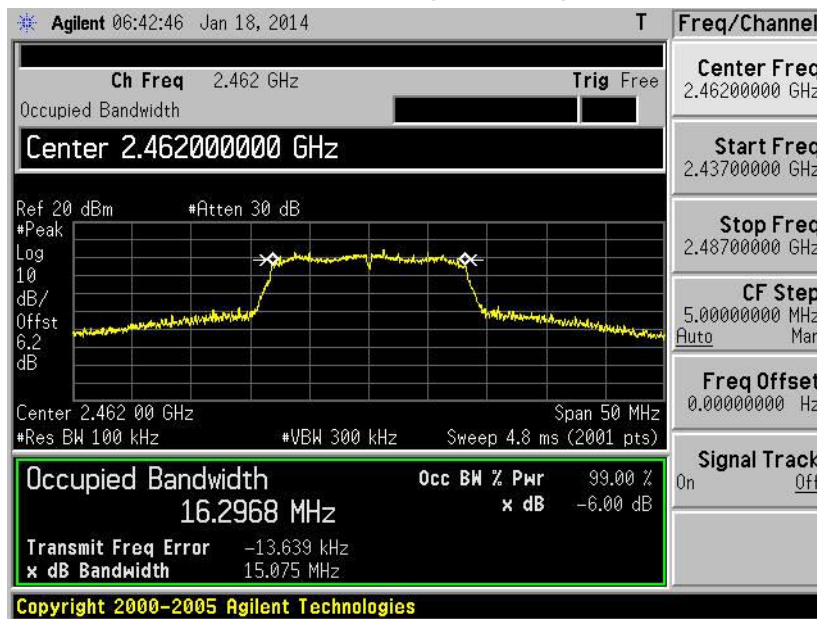
Channel 01 (2412MHz)



Channel 06 (2437MHz)



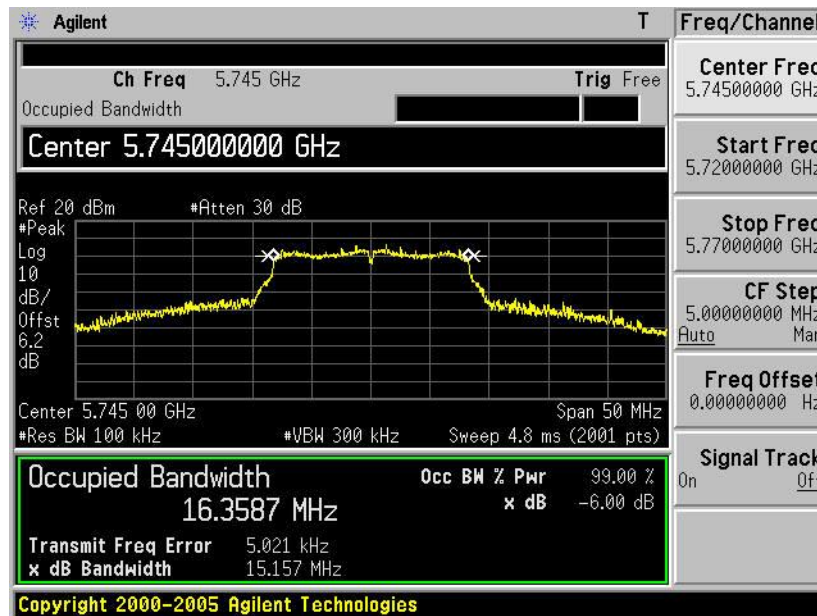
Channel 11 (2462MHz)



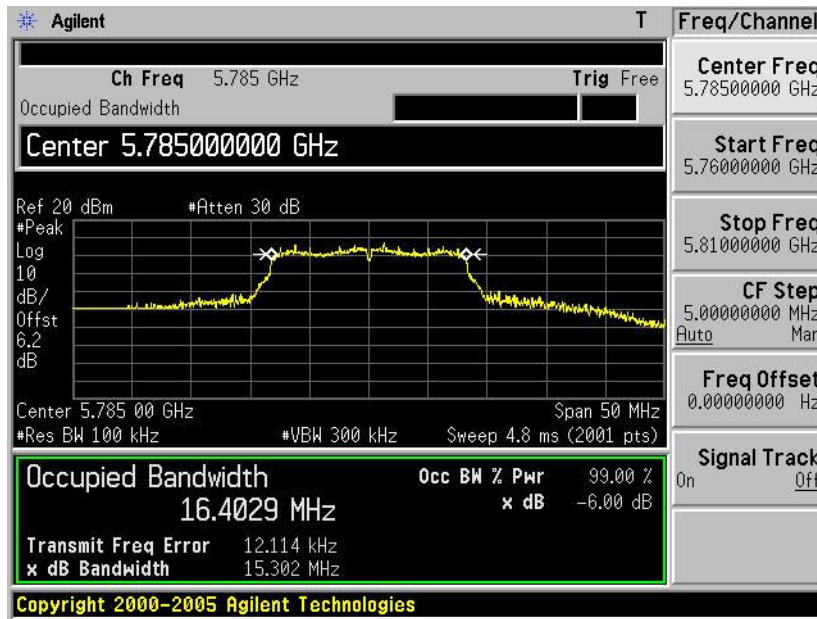
Product	: IP-STB
Test Item	: 6dB Occupied Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11a (Ant 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
149	5745	15157	500	Pass
157	5785	15302	500	Pass
165	5825	15426	500	Pass

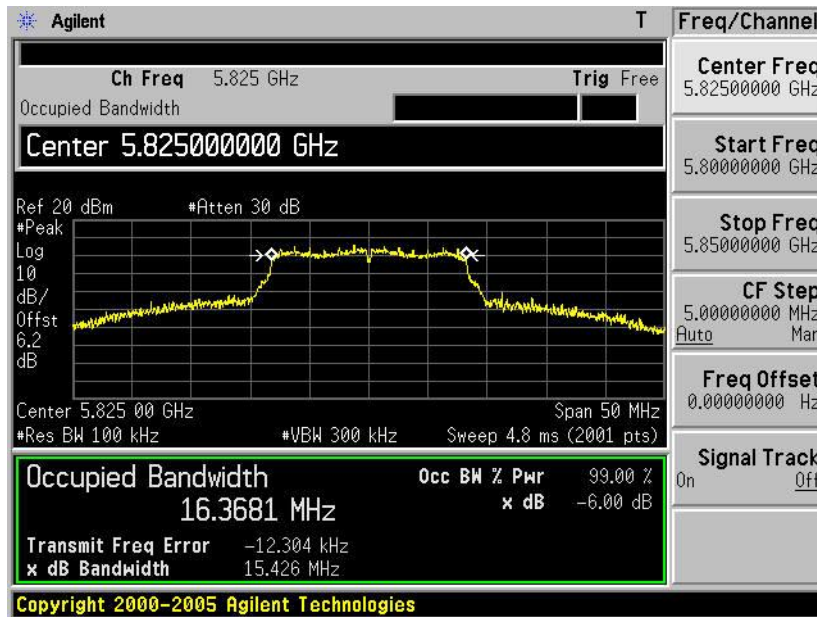
Channel 149 (5745MHz)



Channel 157 (5785MHz)



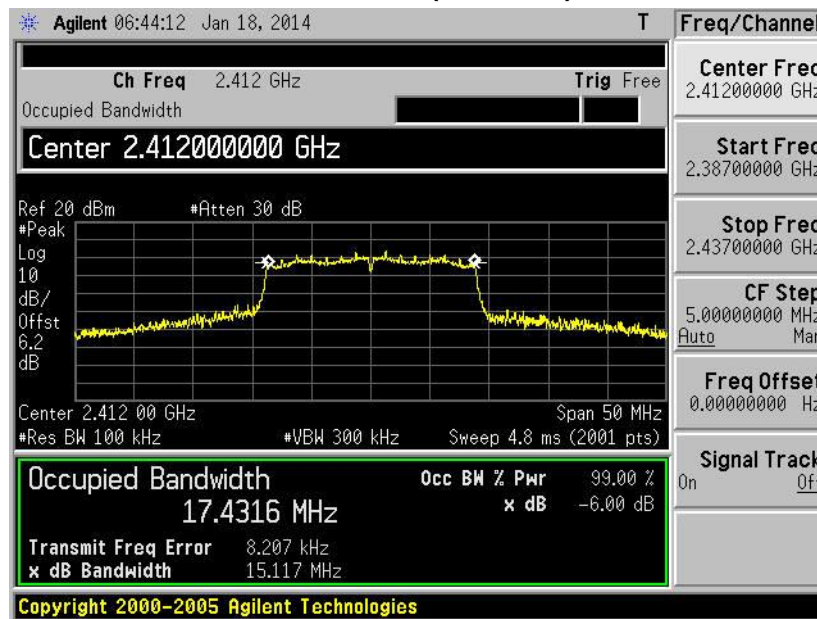
Channel 165 (5825MHz)



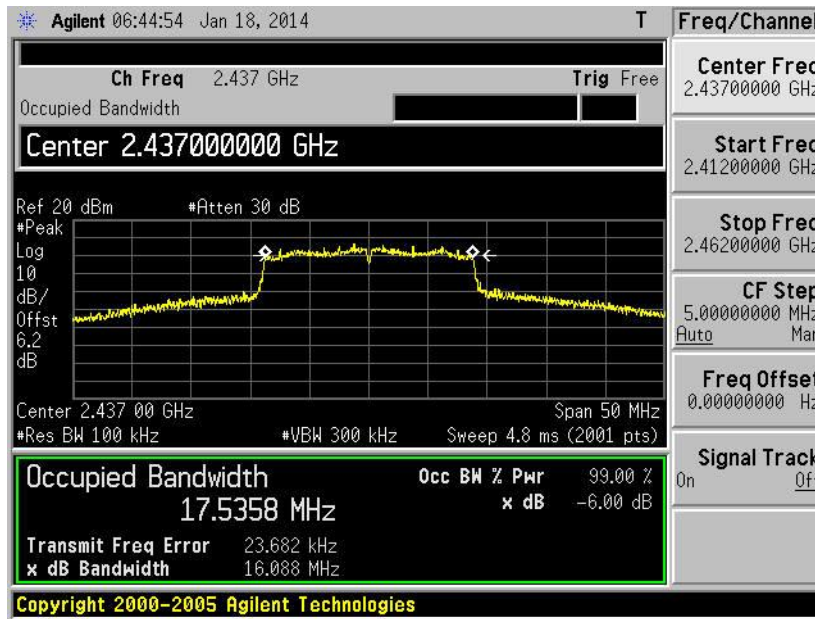
Product	: IP-STB
Test Item	: 6dB Occupied Bandwidth
Test Site	: TR-8
Test Mode	: Mode 4: Transmit by 802.11n(20MHz) (Ant 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15117	500	Pass
06	2437	16088	500	Pass
11	2462	15117	500	Pass
149	5745	15115	500	Pass
157	5785	14439	500	Pass
165	5825	14627	500	Pass

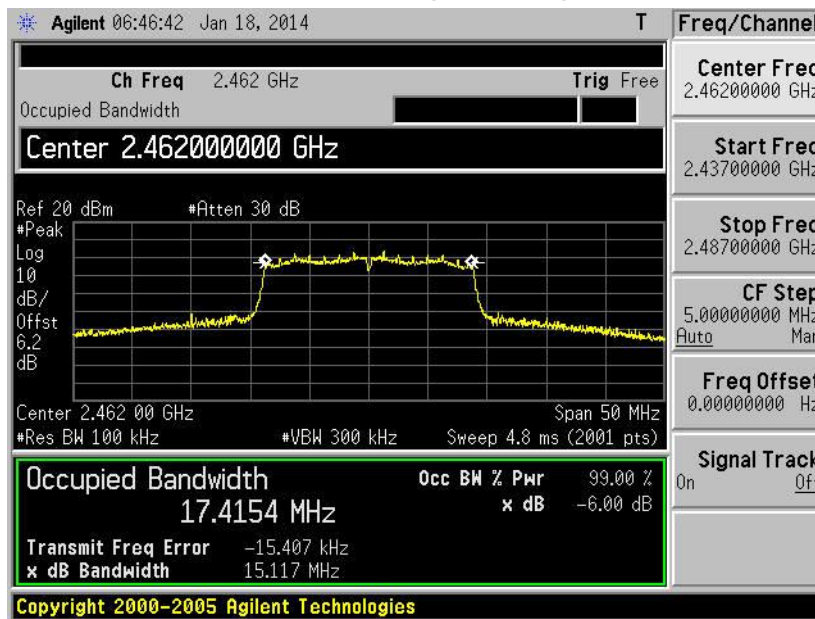
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



Channel 149 (5745MHz)

