

**AFC Capability – Inquired Frequency and Channel**

CT\_AFC\_SP\_AP\_AFCDUSA32\_FrequencyChannel\_10629\_1

##### 2025-09-15T07:00:40Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "User-Agent": "libcrp/0.1",
    "Accept": "application/json",
    "Content-Type": "application/json",
    "Expect": "100-continue",
    "X-Forwarded-For": "192.168.0.134",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1492",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "26503324",
        "deviceDescriptor": {
          "serialNumber": "W1700K2524000099",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "MXF-W1700K2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.985869,
          "latitude": 37.381933
        },
        "majorAxis": 150,
```

```
        "minorAxis": 150,
        "orientation": 0
    },
    "elevation": {
        "height": 15,
        "heightType": "AGL",
        "verticalUncertainty": 2
    },
    "indoorDeployment": 0
},
"inquiredFrequencyRange": [
    {
        "lowFrequency": 5925,
        "highFrequency": 6425
    },
    {
        "lowFrequency": 6525,
        "highFrequency": 6875
    }
],
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
```

53,  
57,  
61,  
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
97,  
101,  
105,  
109,  
113,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,

```
        201,  
        205,  
        209,  
        213,  
        217,  
        221,  
        225,  
        229,  
        233  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        99,  
        107,  
        115,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179,
```

```
        187,  
        195,  
        203,  
        211,  
        219,  
        227  
    ]  
},  
{  
    "globalOperatingClass": 133,  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207
```

```
    ]
  },
  {
    "globalOperatingClass": 136,
    "channelCfi": [
      2
    ]
  },
  {
    "globalOperatingClass": 137,
    "channelCfi": [
      31,
      63,
      95,
      127,
      159,
      191
    ]
  }
],
"minDesiredPower": 0
}
]
}
}
```

##### 2025-09-15T07:00:41Z #####

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [],
      "availableChannelInfo": [],
      "requestId": "26503324",
    }
  ]
}
```



```
"availabilityExpireTime": "2025-09-16T07:00:40Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
  "version": "1.4"  
}
```

## Transmitting Power Measurement

### AFC Capability – Inquired Frequency

#### AFCD.USA: Unsuccessful spectrum access update

| Freq (MHz) | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
|------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| 6155       | LPI              | 20              | 12.58       | 5.63                         | 18.21      | -                             | N/A    | -0.92         | 5.63                       | 4.71               | 5                                     | Pass   |
| 6155       | LPI              | 20              | 12.60       | 5.63                         | 18.23      | -                             | N/A    | -0.90         | 5.63                       | 4.73               | 5                                     | Pass   |

### AFC Capability – Inquired Channel

#### AFCD.USA: Unsuccessful spectrum access update

| Freq (MHz) | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
|------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| 5955       | LPI              | 20              | 11.41       | 5.63                         | 17.04      | -                             | N/A    | -1.69         | 5.63                       | 3.94               | 5                                     | Pass   |
| 5955       | LPI              | 20              | 11.42       | 5.63                         | 17.05      | -                             | N/A    | -1.50         | 5.63                       | 4.13               | 5                                     | Pass   |

### AFC Capability – Inquired Frequency & Channel

#### AFCD.USA: Unsuccessful spectrum access update

| Freq (MHz) | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
|------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| 5995       | LPI              | 20              | 11.35       | 5.63                         | 16.98      | -                             | N/A    | -1.29         | 5.63                       | 4.34               | 5                                     | Pass   |
| 5995       | LPI              | 20              | 11.42       | 5.63                         | 17.05      | -                             | N/A    | -1.45         | 5.63                       | 4.18               | 5                                     | Pass   |

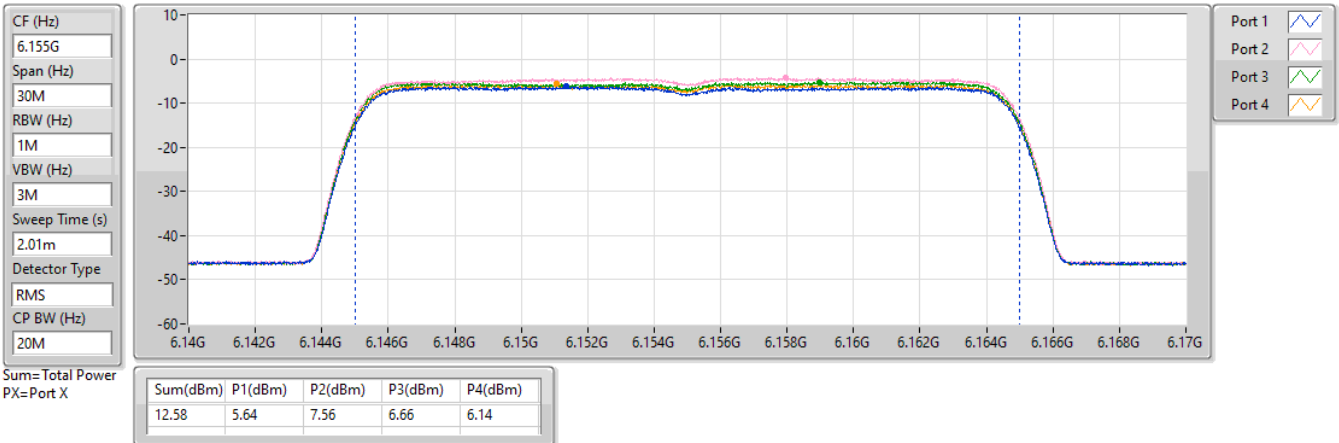
#### AFC Capability – Inquired Frequency

Frequency (MHz): 6155

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

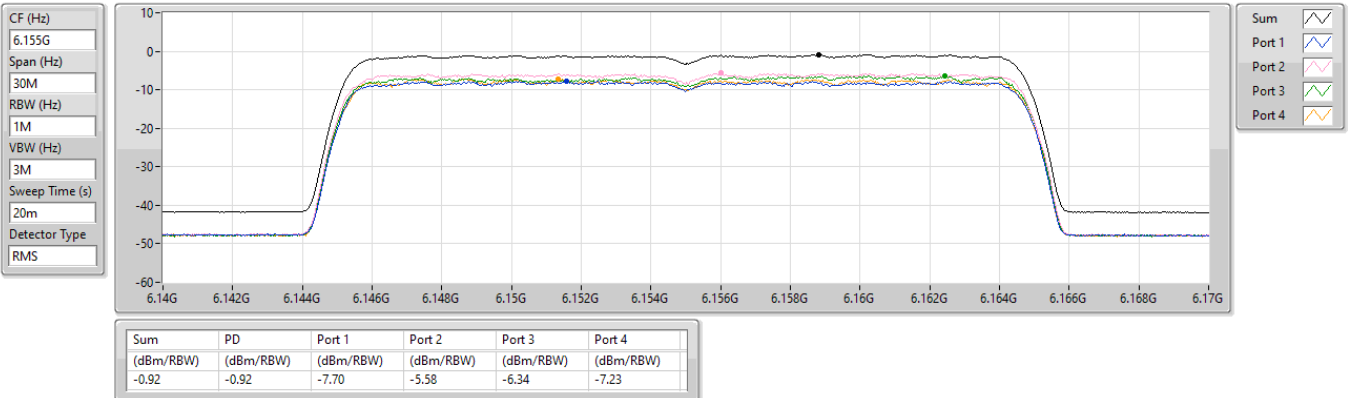
6155MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

6155MHz



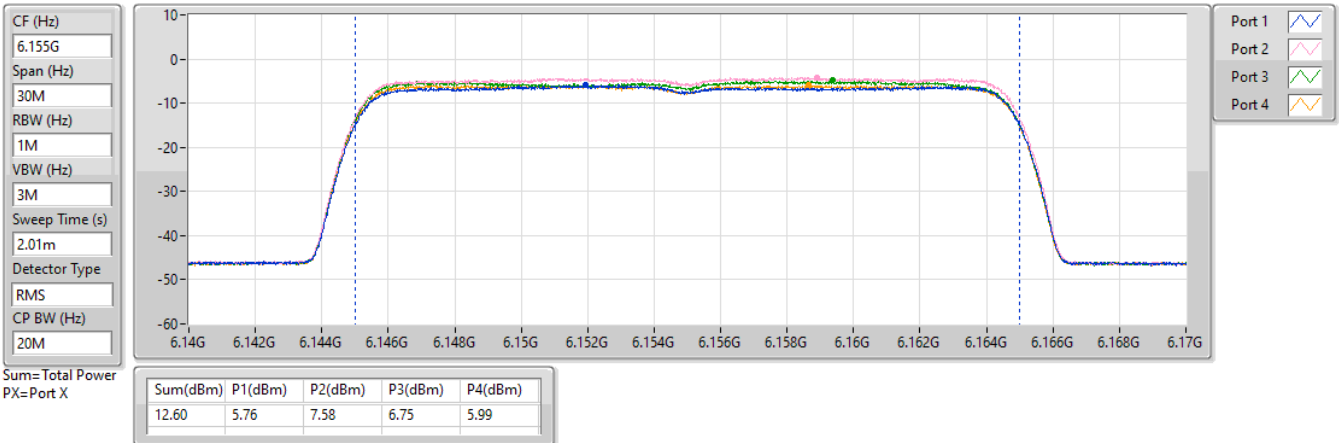
#### AFC Capability – Inquired Frequency

Frequency (MHz): 6155

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

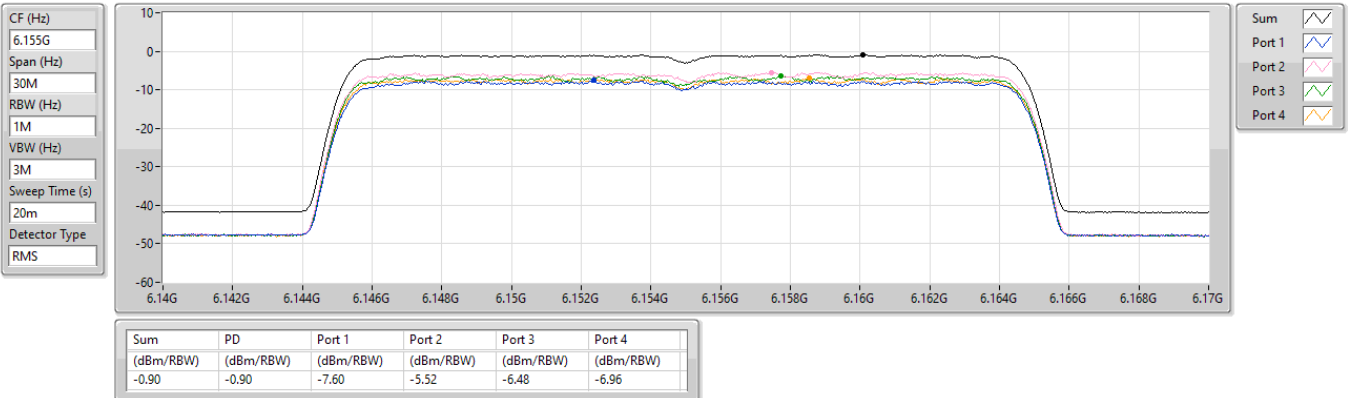
6155MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

6155MHz



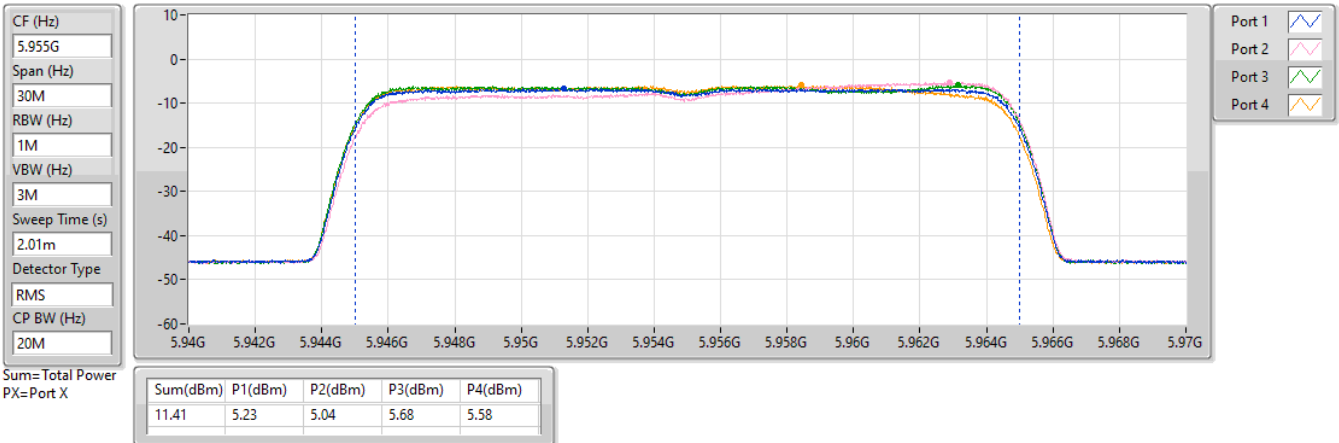
#### AFC Capability – Inquired Channel

Frequency (MHz): 5955

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

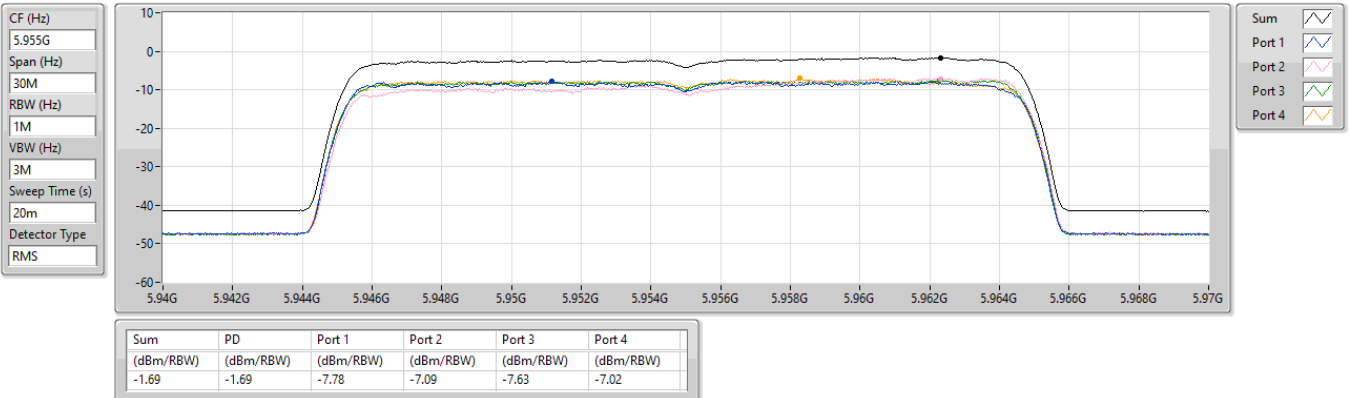
5955MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

5955MHz



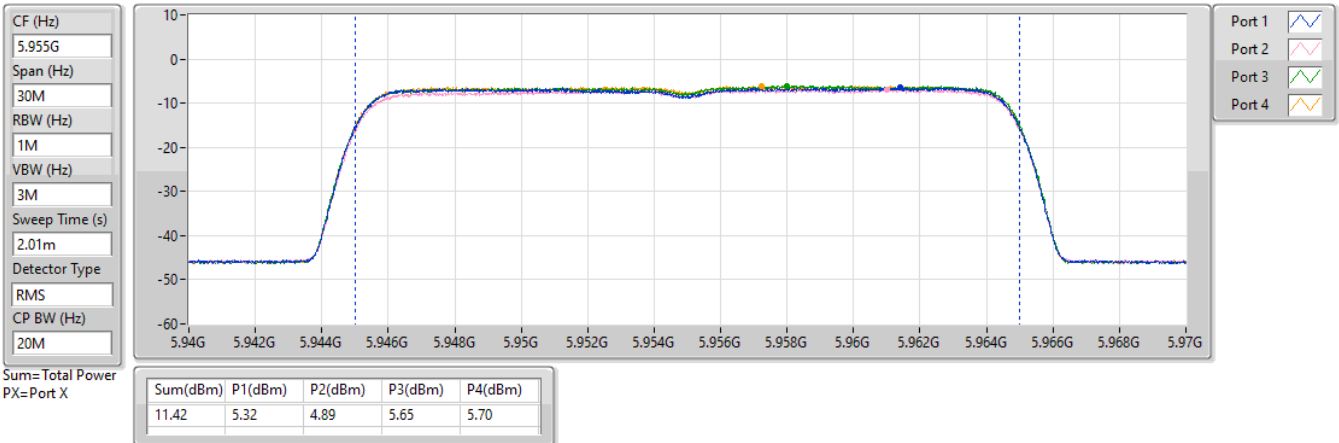
#### AFC Capability – Inquired Channel

Frequency (MHz): 5955

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

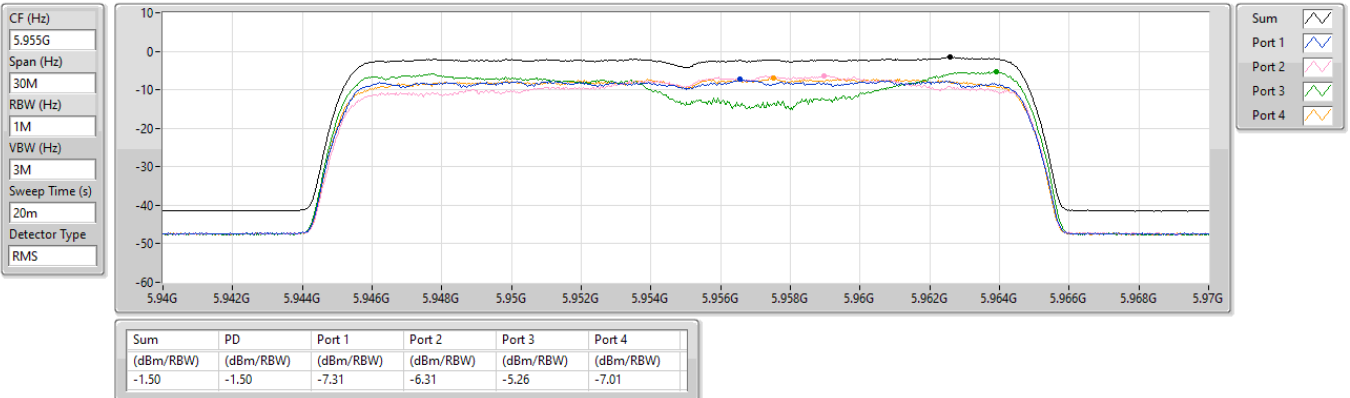
5955MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

5955MHz



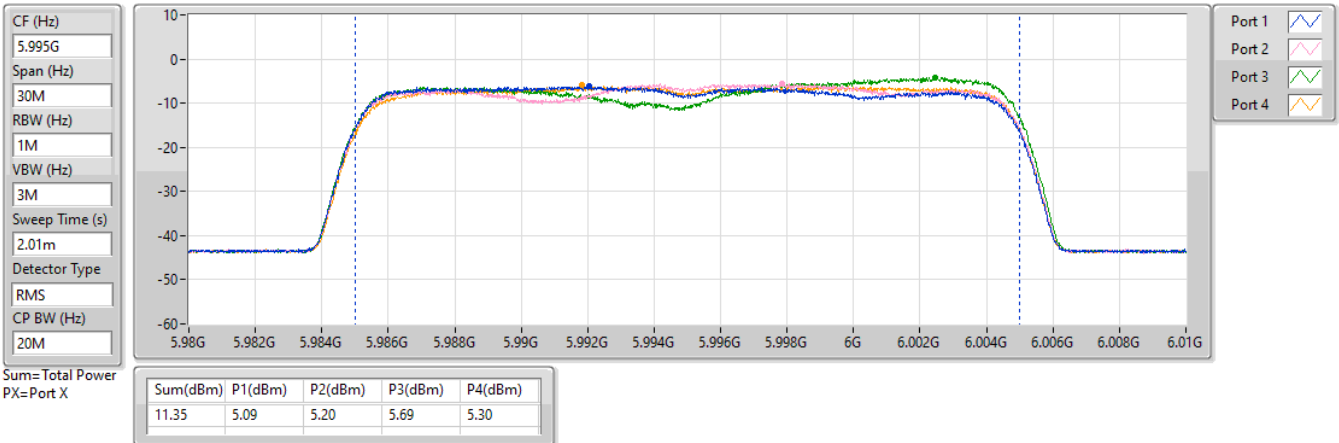
#### AFC Capability – Inquired Frequency & Channel

Frequency (MHz): 5995

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

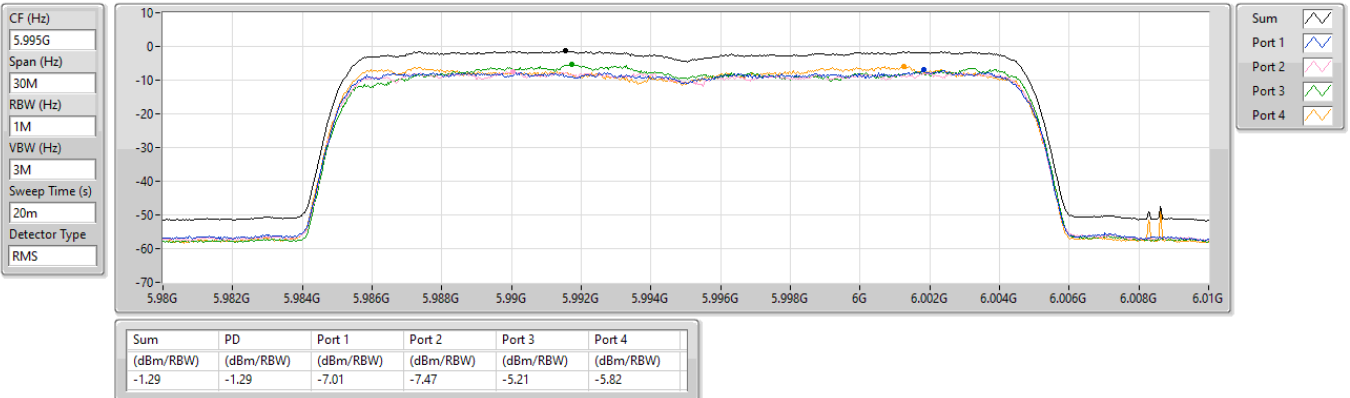
5995MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

5995MHz



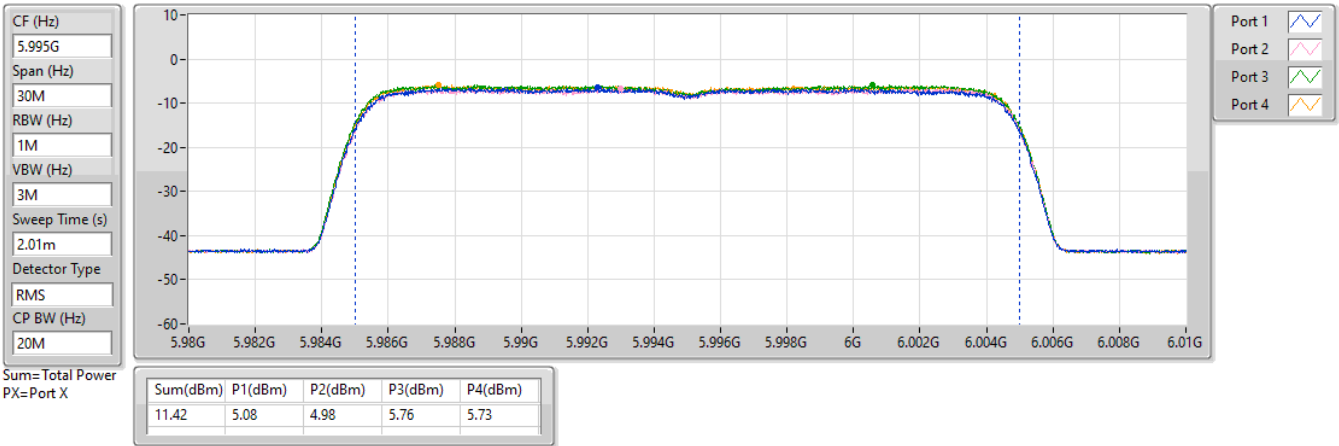
#### AFC Capability – Inquired Frequency & Channel

#### Frequency (MHz): 5995

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

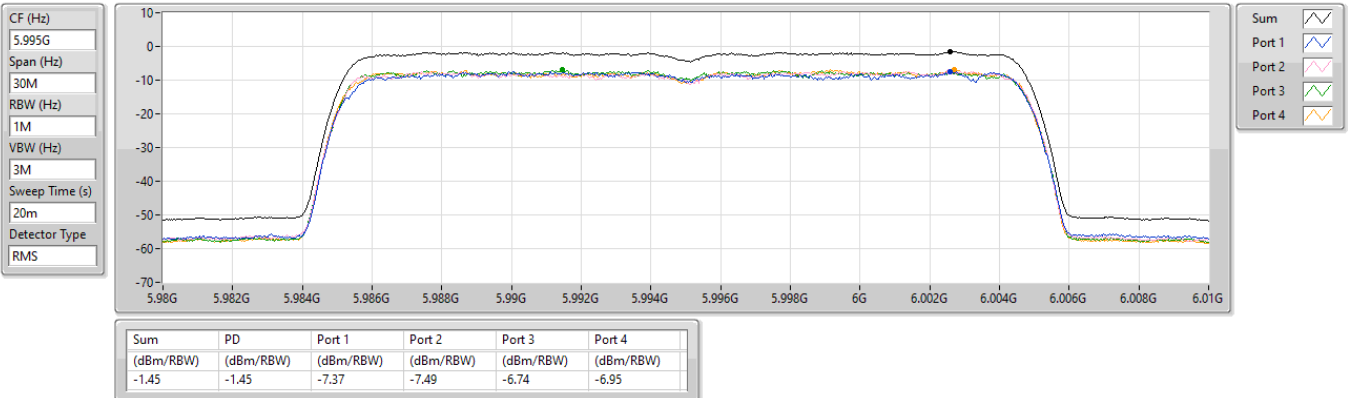
5995MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

5995MHz



AFCDUT Compliance Test Report

## AFC DUT Compliance Test Report

### DUT Information

|                   |                   |
|-------------------|-------------------|
| AFC DUT System    | Standard Power AP |
| DUT Vendor Name   | Gemtek            |
| DUT Product Model | W1700K            |

### Test Result

| FCC Requirements                                   | TestCaseName                                                                                 | Test Result |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDSAU33_Frequency_10616_1 (Successful spectrum access update)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_SP\_AP\_AFCDSAU33\_Frequency\_10616\_1 (Successful spectrum access update)  
 TestResult: PASS  
 Band: 6GHz

| Measurements Name                       | Description                                                                           | Value | Validation Result |
|-----------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION_1                  | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST    | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information                                              | true  | PASS              |
|                                         | AFC DUT transmit power in the                                                         |       |                   |

3.3\_10616.html[2025/9/23 上午 09:12:05]

#### AFCDUT Compliance Test Report

|                                                         |                                                                                                                                      |       |      |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1              | band is less than CEILING[LPI limits (5 dBm/MHz PSD), SP limits (19.3 dBm/MHz PSD) in Spectrum Reponse] on channel 141 bandwidth 20. | true  | PASS |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                              | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                             | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                 | false | PASS |

AFC DUT Compliance Test Report

## AFC DUT Compliance Test Report

### DUT Information

|                   |                   |
|-------------------|-------------------|
| AFC DUT System    | Standard Power AP |
| DUT Vendor Name   | Gemtek            |
| DUT Product Model | W1700K            |

### Test Result

| FCC Requirements                                   | TestCaseName                                                                               | Test Result |
|----------------------------------------------------|--------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1 (Successful spectrum access update)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_SP\_AP\_AFCDSAU33\_Channel\_10623\_1 (Successful spectrum access update)

TestResult:PASS

Band:6GHz

| Measurements Name                    | Description                                                                           | Value | Validation Result |
|--------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION_1               | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |

3.3\_10623.html[2025/9/23 上午 09:12:15]

AFC DUT Compliance Test Report

|                                            |                                                                                                                                                                  |       |      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1    | Valid mandatory registration information                                                                                                                         | true  | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (27.7 dBm EIRP) in Spectrum Reponse] on channel 173 bandwidth 20. | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                                             | false | PASS |

AFCDUT Compliance Test Report

## AFC DUT Compliance Test Report

### DUT Information

|                   |                   |
|-------------------|-------------------|
| AFC DUT System    | Standard Power AP |
| DUT Vendor Name   | Gemtek            |
| DUT Product Model | W1700K            |

### Test Result

| FCC Requirements                                   | TestCaseName                                                                                        | Test Result |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDSAU33_FrequencyChannel_10630_1 (Successful spectrum access update)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_SP\_AP\_AFCDSAU33\_FrequencyChannel\_10630\_1 (Successful spectrum access update)

TestResult: PASS

Band: 6GHz

| Measurements Name                       | Description                                                                           | Value | Validation Result |
|-----------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION_1                  | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST    | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information                                              | true  | PASS              |
|                                         | AFC DUT transmit                                                                      |       |                   |

3.3\_10630.html[2025/9/23 上午 09:12:25]

#### AFCDUT Compliance Test Report

|                                                         |                                                                                                                                                                |       |      |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1              | power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD), SP limits (9.0 dBm/MHz PSD, 22.0 dBm EIRP) in Spectrum Reponse] on channel 61 bandwidth 20. | true  | PASS |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1 | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                        | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                             | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                                           | false | PASS |

**AFC Capability – Inquired Frequency**

CT\_AFC\_SP\_AP\_AFCDSAU33\_Frequency\_10616\_1

##### 2025-09-16T05:12:46Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "User-Agent": "libcrp/0.1",
    "Accept": "application/json",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.0.11",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "639",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "71406388",
        "deviceDescriptor": {
          "serialNumber": "W1700K2524000099",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "MXF-W1700K2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.985869,
          "latitude": 37.381933
        },
        "majorAxis": 150,
```

```
        "minorAxis": 150,
        "orientation": 0
    },
    "elevation": {
        "height": 15,
        "heightType": "AGL",
        "verticalUncertainty": 2
    },
    "indoorDeployment": 0
},
"inquiredFrequencyRange": [
    {
        "lowFrequency": 5925,
        "highFrequency": 6425
    },
    {
        "lowFrequency": 6525,
        "highFrequency": 6875
    }
],
"minDesiredPower": 0
}
]
}
}
```

##### 2025-09-16T05:12:46Z #####

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
```

```
        "highFrequency": 6045,
        "lowFrequency": 6025
    },
    "maxPsd": 10.5
},
{
    "frequencyRange": {
        "highFrequency": 6065,
        "lowFrequency": 6045
    },
    "maxPsd": 21.4
},
{
    "frequencyRange": {
        "highFrequency": 6085,
        "lowFrequency": 6065
    },
    "maxPsd": 16.1
},
{
    "frequencyRange": {
        "highFrequency": 6105,
        "lowFrequency": 6085
    },
    "maxPsd": 10.1
},
{
    "frequencyRange": {
        "highFrequency": 6205,
        "lowFrequency": 6185
    },
    "maxPsd": 13.4
},
{
    "frequencyRange": {
        "highFrequency": 6225,
        "lowFrequency": 6205
```

```
    },
    "maxPsd": 20.8
  },
  {
    "frequencyRange": {
      "highFrequency": 6245,
      "lowFrequency": 6225
    },
    "maxPsd": 9.9
  },
  {
    "frequencyRange": {
      "highFrequency": 6265,
      "lowFrequency": 6245
    },
    "maxPsd": 12.0
  },
  {
    "frequencyRange": {
      "highFrequency": 6285,
      "lowFrequency": 6265
    },
    "maxPsd": 13.8
  },
  {
    "frequencyRange": {
      "highFrequency": 6305,
      "lowFrequency": 6285
    },
    "maxPsd": 20.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6325,
      "lowFrequency": 6305
    },
    "maxPsd": 21.9
  }
```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6345,
        "lowFrequency": 6325
      },
      "maxPsd": 19.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6605,
        "lowFrequency": 6585
      },
      "maxPsd": 17.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6625,
        "lowFrequency": 6605
      },
      "maxPsd": 8.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6645,
        "lowFrequency": 6625
      },
      "maxPsd": 9.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6665,
        "lowFrequency": 6645
      },
      "maxPsd": 19.3
    }
  ],
```



### 3.3 AFCD.SAU Test Result

### Appendix C

---

```
"requestId": "71406388",  
  "availabilityExpireTime": "2025-09-17T05:12:46Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```

**AFC Capability – Inquired Channel**

CT\_AFC\_SP\_AP\_AFCDSAUS33\_Channel\_10623\_1

##### 2025-09-16T02:13:08Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "User-Agent": "libcrp/0.1",
    "Accept": "application/json",
    "Content-Type": "application/json",
    "Expect": "100-continue",
    "X-Forwarded-For": "192.168.0.11",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1364",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "42766369",
        "deviceDescriptor": {
          "serialNumber": "W1700K2524000099",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "MXF-W1700K2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.985869,
          "latitude": 37.381933
        },
        "majorAxis": 150,
```

```
        "minorAxis": 150,
        "orientation": 0
    },
    "elevation": {
        "height": 15,
        "heightType": "AGL",
        "verticalUncertainty": 2
    },
    "indoorDeployment": 0
},
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
```

93,  
97,  
101,  
105,  
109,  
113,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,  
201,  
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233

]

```
    },  
    {  
      "globalOperatingClass": 132,  
      "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        99,  
        107,  
        115,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179,  
        187,  
        195,  
        203,  
        211,  
        219,  
        227  
      ]  
    },  
    {  
      "globalOperatingClass": 133,
```

```
"channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    103,  
    119,  
    135,  
    151,  
    167,  
    183,  
    199,  
    215  
]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 136,  
    "channelCfi": [  
        2  
    ]  
},  
{  
    "globalOperatingClass": 137,
```

```
        "channelCfi": [  
            31,  
            63,  
            95,  
            127,  
            159,  
            191  
        ]  
    },  
    ],  
    "minDesiredPower": 0  
}  
]  
}  
}
```

##### 2025-09-16T02:13:09Z #####

```
{  
    "availableSpectrumInquiryResponses": [  
        {  
            "response": {  
                "responseCode": 0,  
                "shortDescription": "SUCCESS"  
            },  
            "availableChannelInfo": [  
                {  
                    "channelCfi": [  
                        49,  
                        53,  
                        57,  
                        61,  
                        65,  
                        69,  
                        73,  
                        77,  
                        81,  
                        85,  
                    ]  
                }  
            ]  
        }  
    ]  
}
```

```
      89,  
      93,  
      161,  
      165,  
      169,  
      173  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      26.2,  
      24.4,  
      31.9,  
      32.6,  
      29.8,  
      28.4,  
      21.1,  
      29.8,  
      29.8,  
      22.1,  
      29.5,  
      29.5,  
      26.7,  
      22.0,  
      29.8,  
      27.7  
    ]  
  },  
  {  
    "channelCfi": [  
      51,  
      59,  
      67,  
      75,  
      83,  
      91,  
      163,  
      171
```

```
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        27.4,
        34.9,
        31.4,
        24.1,
        25.1,
        32.5,
        25.0,
        30.7
    ]
},
{
    "channelCfi": [
        55,
        71,
        87,
        167
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        30.4,
        27.1,
        28.1,
        28.0
    ]
},
{
    "channelCfi": [
        79
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.1
    ]
}
```



```
[,
  "requestId": "42766369",
  "availabilityExpireTime": "2025-09-17T02:13:09Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**AFC Capability – Inquired Frequency and Channel**

CT\_AFC\_SP\_AP\_AFCDSAU33\_FrequencyChannel\_10630\_1

##### 2025-09-15T07:08:56Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "User-Agent": "libcrp/0.1",
    "Accept": "application/json",
    "Content-Type": "application/json",
    "Expect": "100-continue",
    "X-Forwarded-For": "192.168.0.134",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1492",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "22793801",
        "deviceDescriptor": {
          "serialNumber": "W1700K2524000099",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "MXF-W1700K2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.985869,
          "latitude": 37.381933
        },
        "majorAxis": 150,
```

```
        "minorAxis": 150,
        "orientation": 0
    },
    "elevation": {
        "height": 15,
        "heightType": "AGL",
        "verticalUncertainty": 2
    },
    "indoorDeployment": 0
},
"inquiredFrequencyRange": [
    {
        "lowFrequency": 5925,
        "highFrequency": 6425
    },
    {
        "lowFrequency": 6525,
        "highFrequency": 6875
    }
],
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
```

53,  
57,  
61,  
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
97,  
101,  
105,  
109,  
113,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,

```
        201,  
        205,  
        209,  
        213,  
        217,  
        221,  
        225,  
        229,  
        233  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        99,  
        107,  
        115,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179,
```

```
        187,  
        195,  
        203,  
        211,  
        219,  
        227  
    ]  
},  
{  
    "globalOperatingClass": 133,  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        103,  
        119,  
        135,  
        151,  
        167,  
        183,  
        199,  
        215  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207
```

```
    ]
  },
  {
    "globalOperatingClass": 136,
    "channelCfi": [
      2
    ]
  },
  {
    "globalOperatingClass": 137,
    "channelCfi": [
      31,
      63,
      95,
      127,
      159,
      191
    ]
  }
],
"minDesiredPower": 0
}
]
}
}
```

##### 2025-09-15T07:08:57Z #####

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
```

```
        "highFrequency": 5965,
        "lowFrequency": 5945
    },
    "maxPsd": 12.0
},
{
    "frequencyRange": {
        "highFrequency": 5985,
        "lowFrequency": 5965
    },
    "maxPsd": 19.8
},
{
    "frequencyRange": {
        "highFrequency": 6005,
        "lowFrequency": 5985
    },
    "maxPsd": 8.3
},
{
    "frequencyRange": {
        "highFrequency": 6025,
        "lowFrequency": 6005
    },
    "maxPsd": 10.4
},
{
    "frequencyRange": {
        "highFrequency": 6125,
        "lowFrequency": 6105
    },
    "maxPsd": 11.2
},
{
    "frequencyRange": {
        "highFrequency": 6145,
        "lowFrequency": 6125
```

```
    },
    "maxPsd": 21.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6165,
      "lowFrequency": 6145
    },
    "maxPsd": 12.4
  },
  {
    "frequencyRange": {
      "highFrequency": 6185,
      "lowFrequency": 6165
    },
    "maxPsd": 12.8
  },
  {
    "frequencyRange": {
      "highFrequency": 6205,
      "lowFrequency": 6185
    },
    "maxPsd": 18.9
  },
  {
    "frequencyRange": {
      "highFrequency": 6225,
      "lowFrequency": 6205
    },
    "maxPsd": 15.2
  },
  {
    "frequencyRange": {
      "highFrequency": 6245,
      "lowFrequency": 6225
    },
    "maxPsd": 20.7
  }
```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
      },
      "maxPsd": 9.0
    },
    {
      "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
      },
      "maxPsd": 16.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6705,
        "lowFrequency": 6685
      },
      "maxPsd": 12.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6725,
        "lowFrequency": 6705
      },
      "maxPsd": 20.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6745,
        "lowFrequency": 6725
      },
      "maxPsd": 13.1
    }
  ],
```

```
"availableChannelInfo": [  
  {  
    "channelCfi": [  
      1,  
      5,  
      9,  
      13,  
      33,  
      37,  
      41,  
      45,  
      49,  
      53,  
      57,  
      61,  
      145,  
      149,  
      153,  
      157  
    ],  
    "globalOperatingClass": 131,  
    "maxEirp": [  
      25.0,  
      32.8,  
      21.3,  
      23.4,  
      24.2,  
      34.3,  
      25.4,  
      25.8,  
      31.9,  
      28.2,  
      33.7,  
      22.0,  
      29.3,  
      25.6,  
      33.6,  
    ]  
  }  
]
```

```
        26.1
      ]
    },
    {
      "channelCfi": [
        3,
        11,
        35,
        43,
        51,
        59,
        147,
        155
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        28.0,
        24.3,
        27.2,
        28.4,
        31.2,
        25.0,
        28.6,
        29.1
      ]
    },
    {
      "channelCfi": [
        7,
        39,
        55,
        151
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        27.3,
        30.2,
```

```
        28.0,
        31.6
      ]
    },
    {
      "channelCfi": [
        47
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        31.0
      ]
    }
  ],
  "requestId": "22793801",
  "availabilityExpireTime": "2025-09-16T07:08:57Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

## Transmitting Power Measurement

### AFC Capability – Inquired Frequency

| AFCD.SAU: Successful spectrum access update |                  |                 |             |                              |            |                               |        |               |                            |                    |                                       |        |
|---------------------------------------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| Freq (MHz)                                  | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
| 6155                                        | LPI              | 20              | 12.48       | 5.63                         | 18.11      | -                             | N/A    | -1.05         | 5.63                       | 4.58               | 5                                     | Pass   |
| 6655                                        | SP               | 20              | 24.82       | 5.45                         | 30.27      | -                             | N/A    | 11.48         | 5.45                       | 16.93              | 19.3                                  | Pass   |
| 6655                                        | LPI              | 20              | 12.57       | 5.45                         | 18.02      | -                             | N/A    | -0.86         | 5.45                       | 4.59               | 5                                     | Pass   |

### AFC Capability – Inquired Channel

| AFCD.SAU: Successful spectrum access update |                  |                 |             |                              |            |                               |        |               |                            |                    |                                       |        |
|---------------------------------------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| Freq (MHz)                                  | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
| 5955                                        | LPI              | 20              | 11.53       | 5.63                         | 17.16      | -                             | N/A    | -1.67         | 5.63                       | 3.96               | 5                                     | Pass   |
| 6815                                        | SP               | 20              | 20.97       | 5.45                         | 26.42      | 27.7                          | Pass   | 7.67          | 5.45                       | 13.12              | -                                     | N/A    |
| 6815                                        | LPI              | 20              | 12.23       | 5.45                         | 17.68      | -                             | N/A    | -1.14         | 5.45                       | 4.31               | 5                                     | Pass   |

### AFC Capability – Inquired Frequency & Channel

| AFCD.SAU: Successful spectrum access update |                  |                 |             |                              |            |                               |        |               |                            |                    |                                       |        |
|---------------------------------------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| Freq (MHz)                                  | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
| 5995                                        | LPI              | 20              | 12.18       | 5.63                         | 17.81      | -                             | N/A    | -1.32         | 5.63                       | 4.31               | 5                                     | Pass   |
| 6255                                        | SP               | 20              | 15.08       | 5.63                         | 20.71      | 22                            | Pass   | 2.13          | 5.63                       | 7.76               | 9                                     | Pass   |
| 6255                                        | LPI              | 20              | 12.14       | 5.63                         | 17.77      | -                             | N/A    | -1.05         | 5.63                       | 4.58               | 5                                     | Pass   |

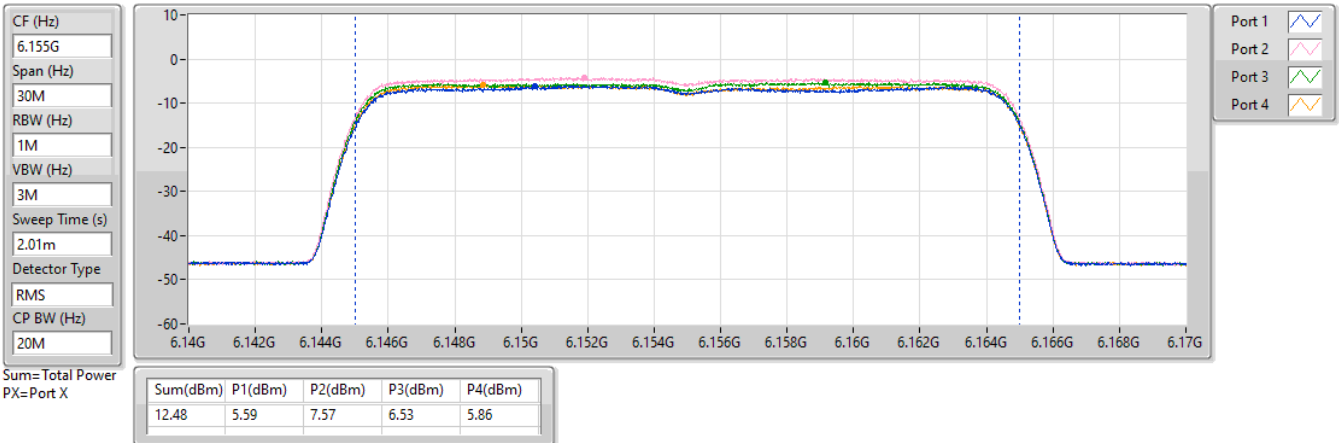
#### AFC Capability – Inquired Frequency

Frequency (MHz): 6155

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

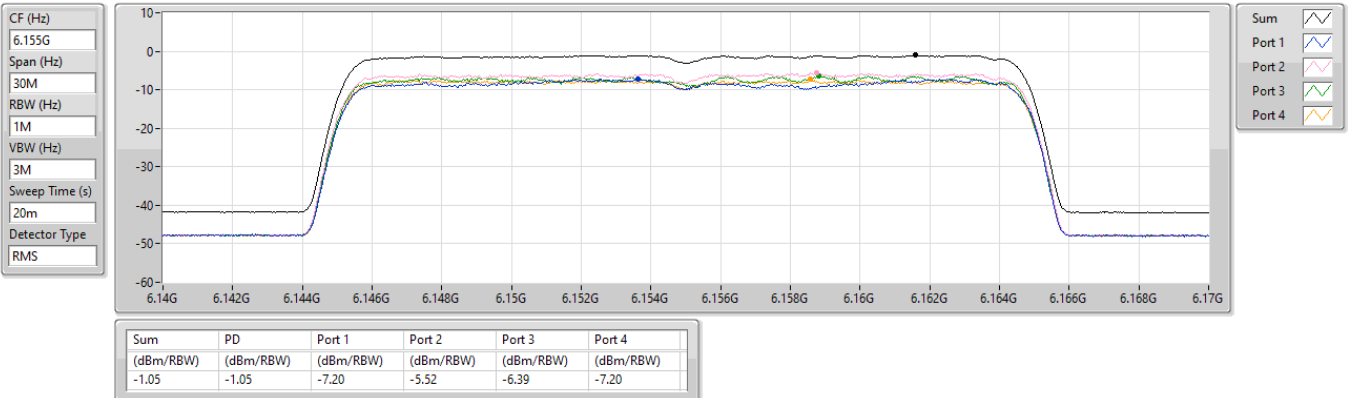
6155MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

6155MHz



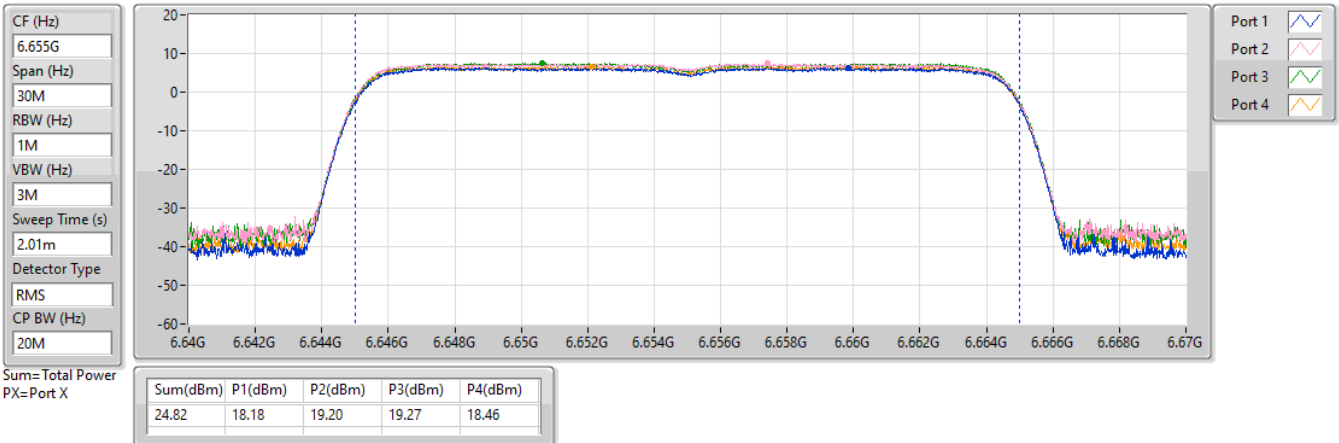
#### AFC Capability – Inquired Frequency

Frequency (MHz): 6655

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

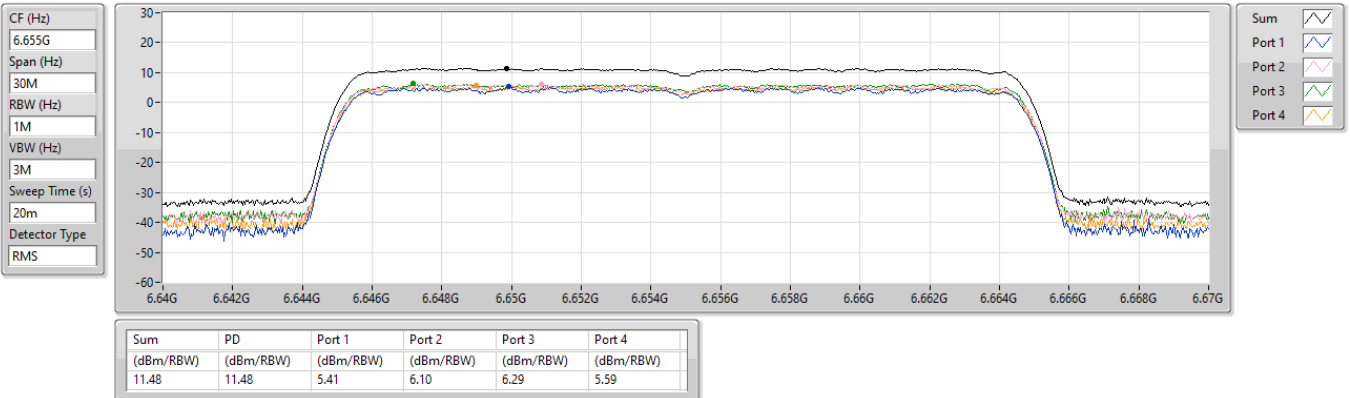
6655MHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6655MHz



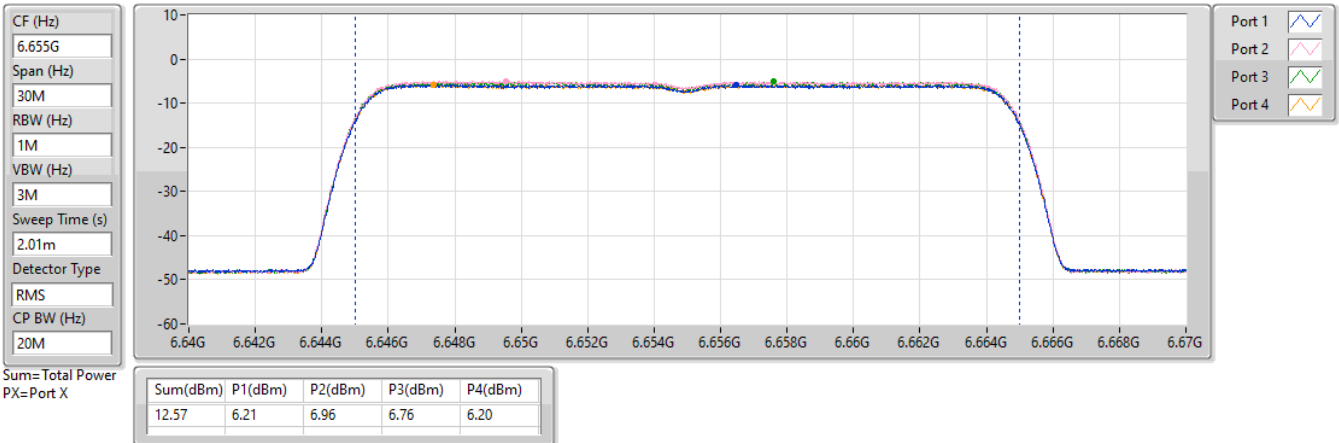
#### AFC Capability – Inquired Frequency

Frequency (MHz): 6655

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

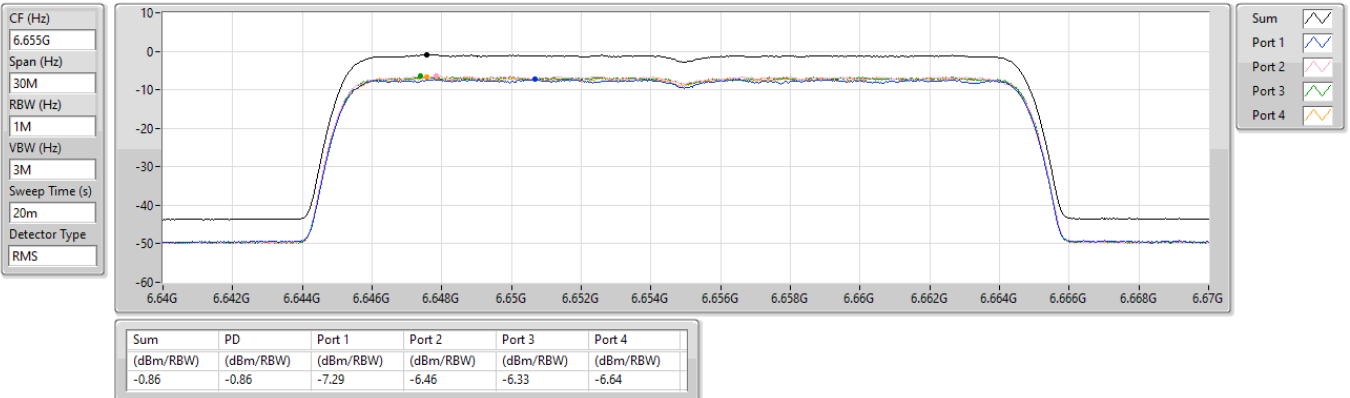
6655MHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6655MHz



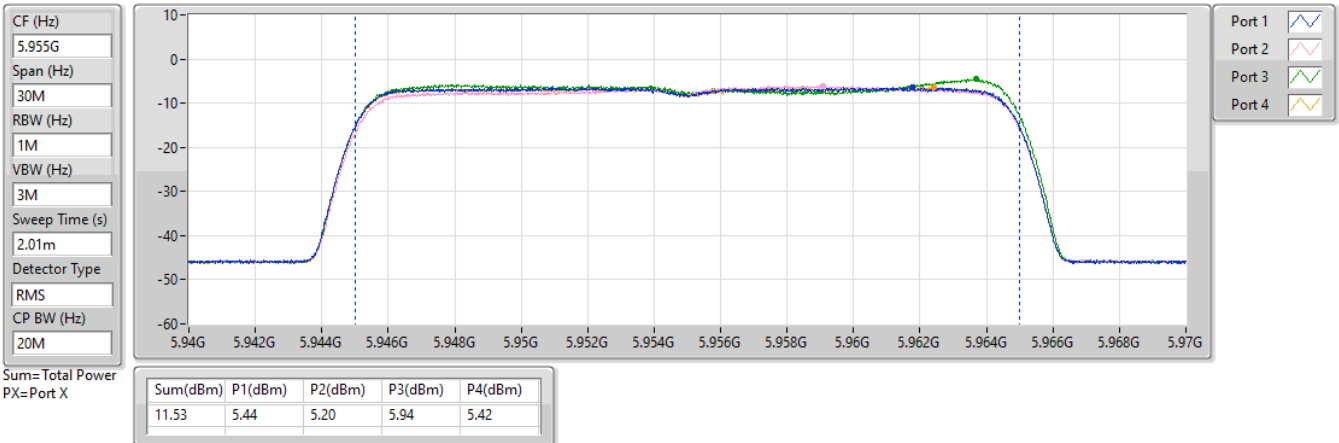
#### AFC Capability – Inquired Channel

Frequency (MHz): 5955

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

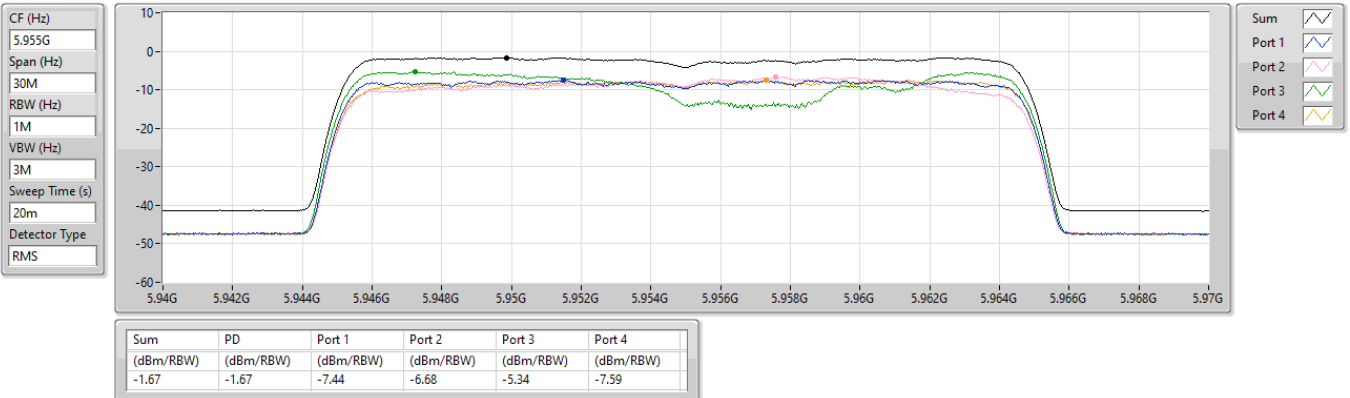
5955MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

5955MHz



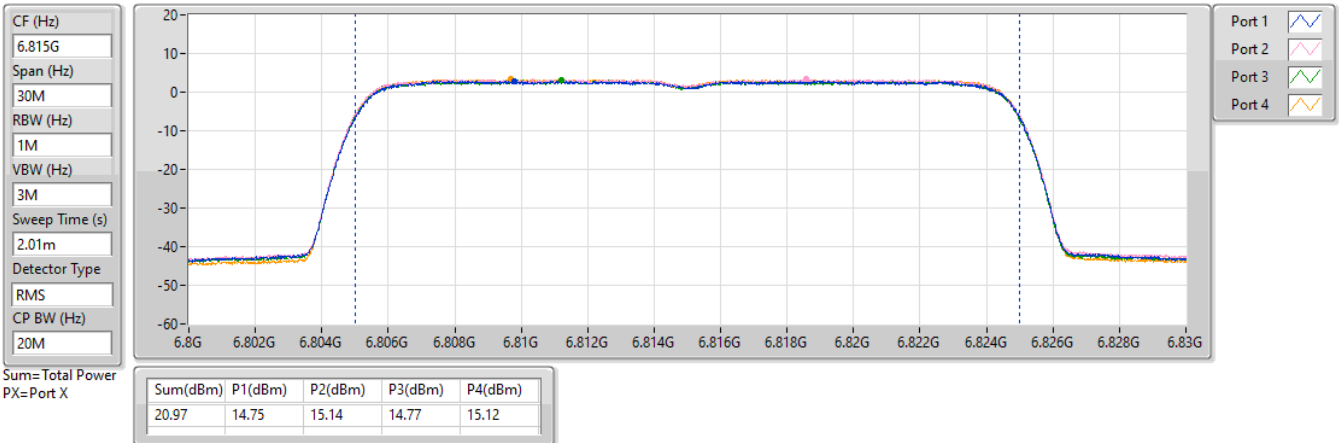
#### AFC Capability – Inquired Channel

Frequency (MHz): 6815

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

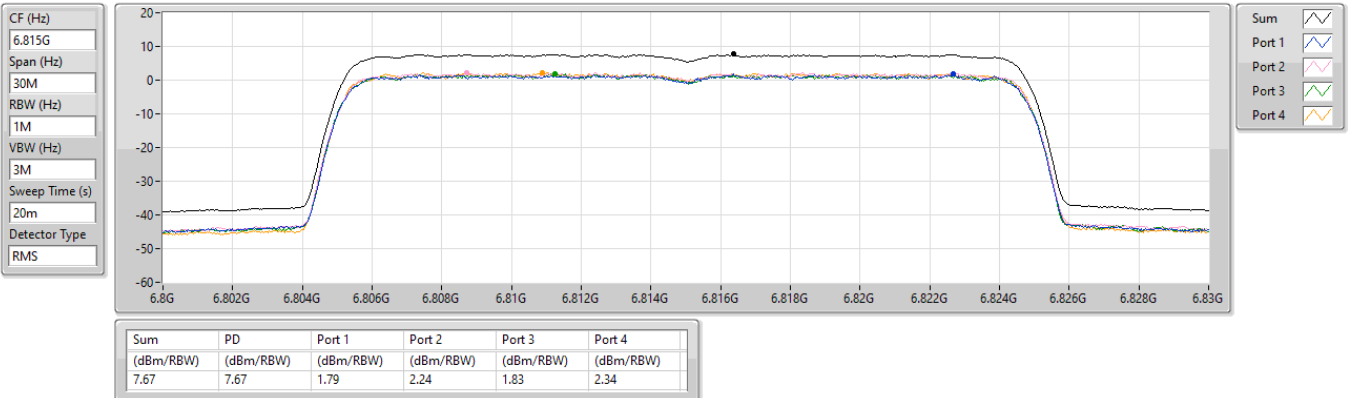
6815MHz Straddle 6.525-6.875GHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6815MHz Straddle 6.525-6.875GHz



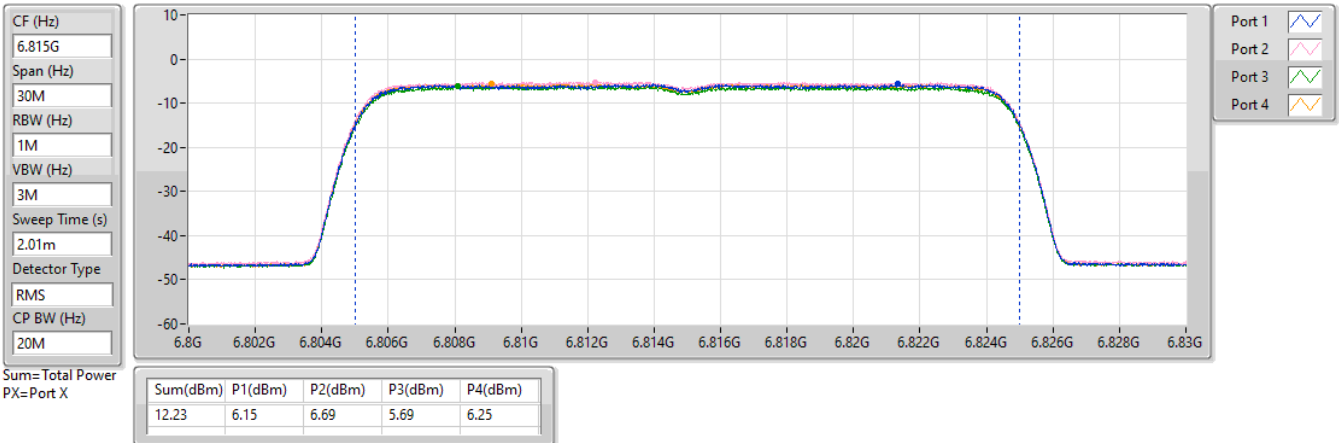
#### AFC Capability – Inquired Channel

Frequency (MHz): 6815

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

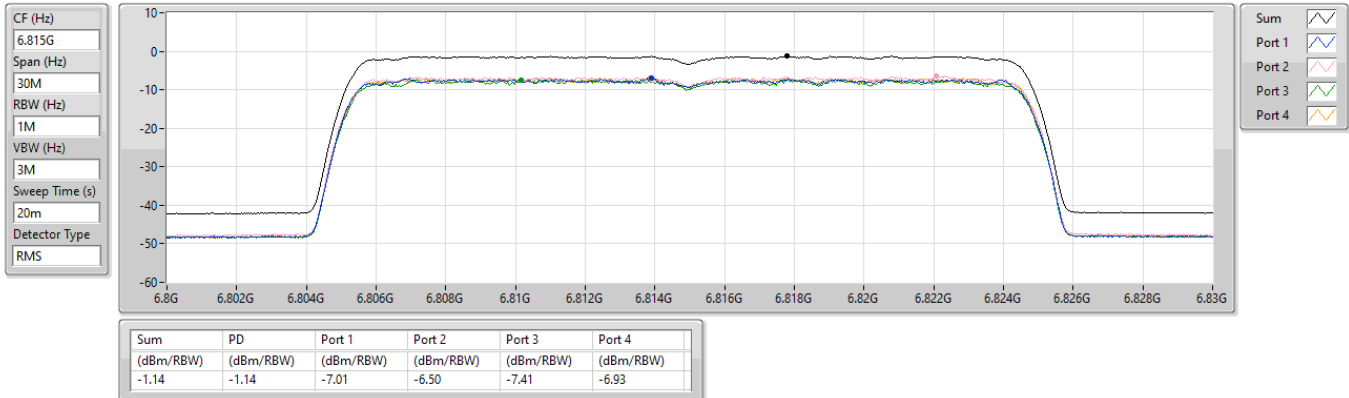
6815MHz Straddle 6.525-6.875GHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6815MHz Straddle 6.525-6.875GHz



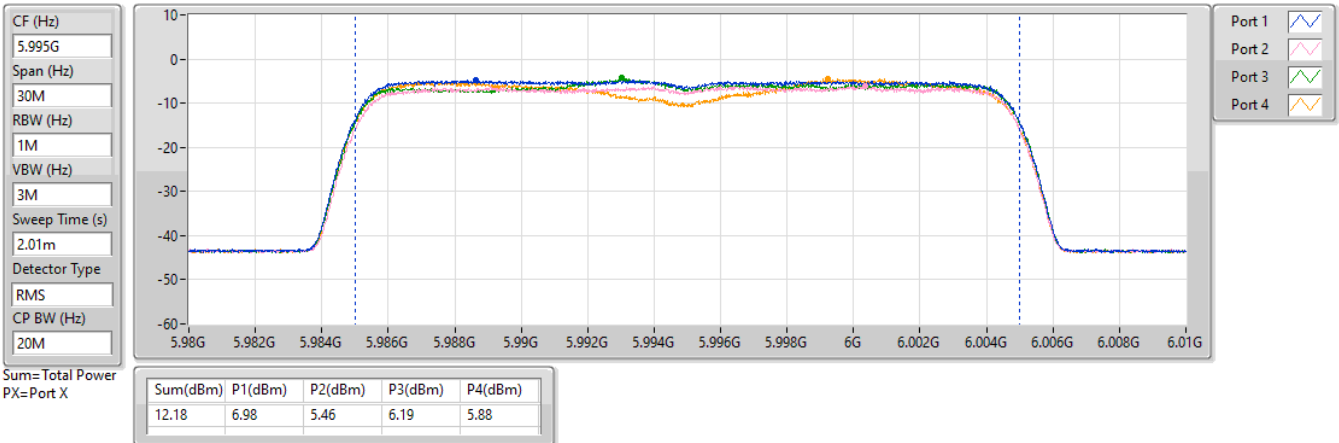
#### AFC Capability – Inquired Frequency & Channel

Frequency (MHz): 5995

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

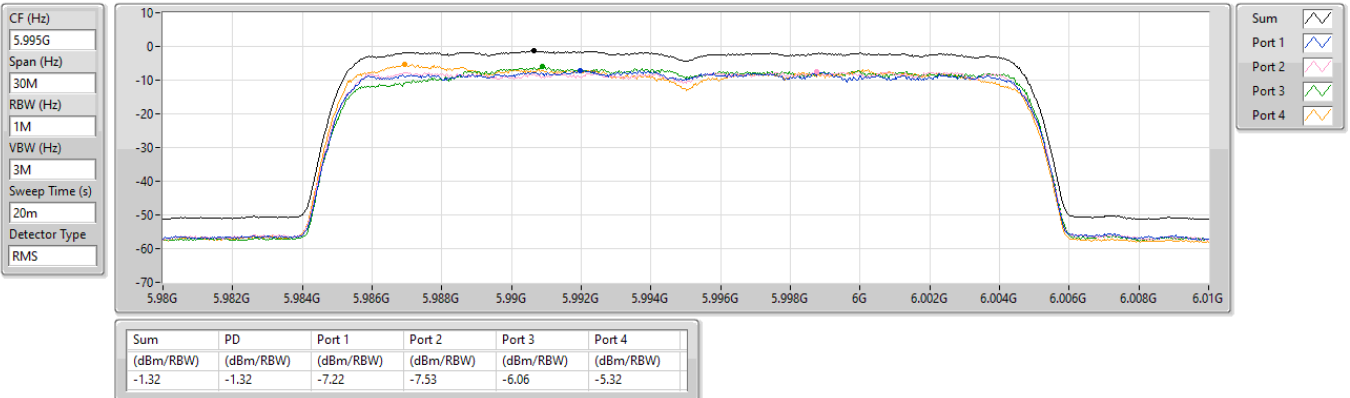
5995MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

5995MHz



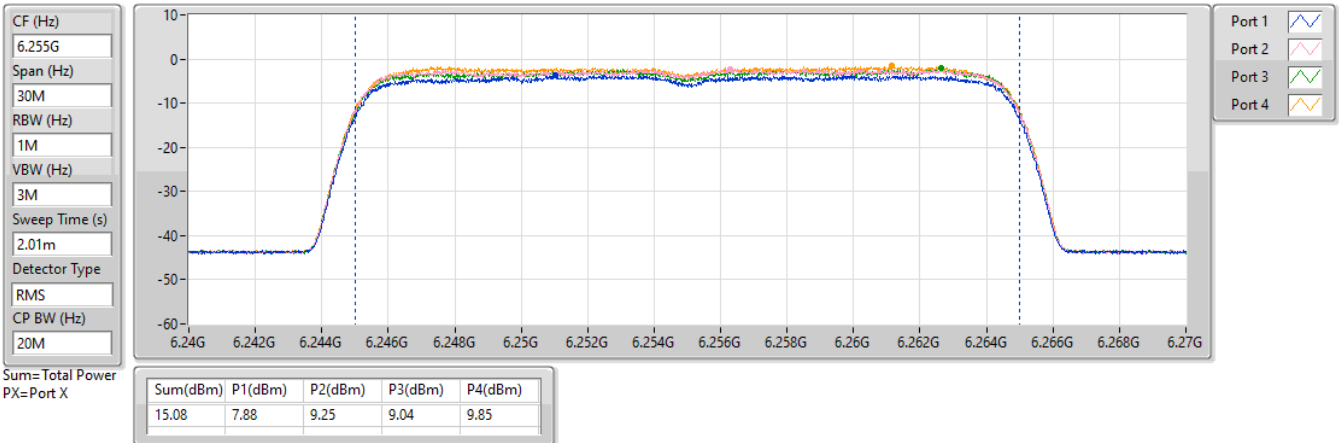
#### AFC Capability – Inquired Frequency & Channel

#### Frequency (MHz): 6255

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

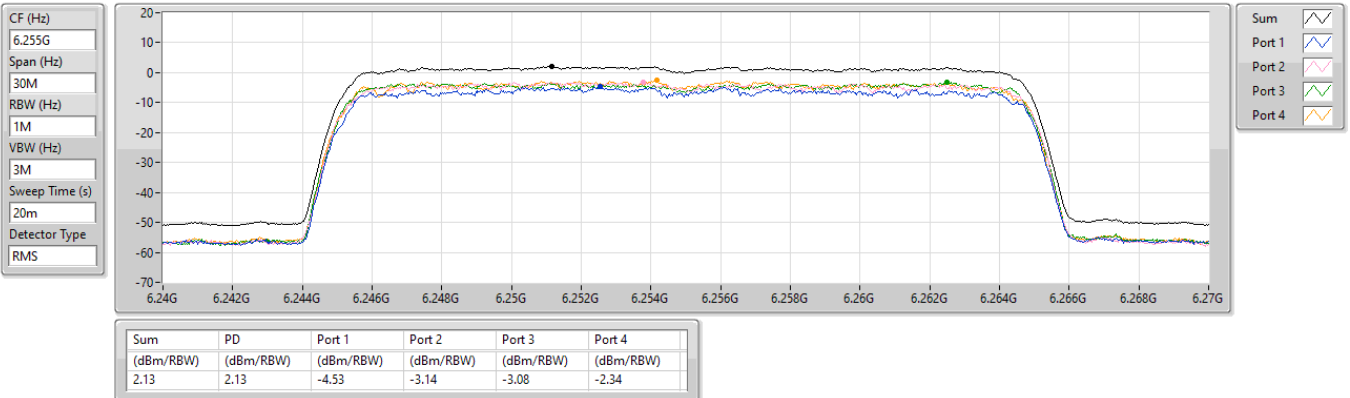
6255MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

6255MHz



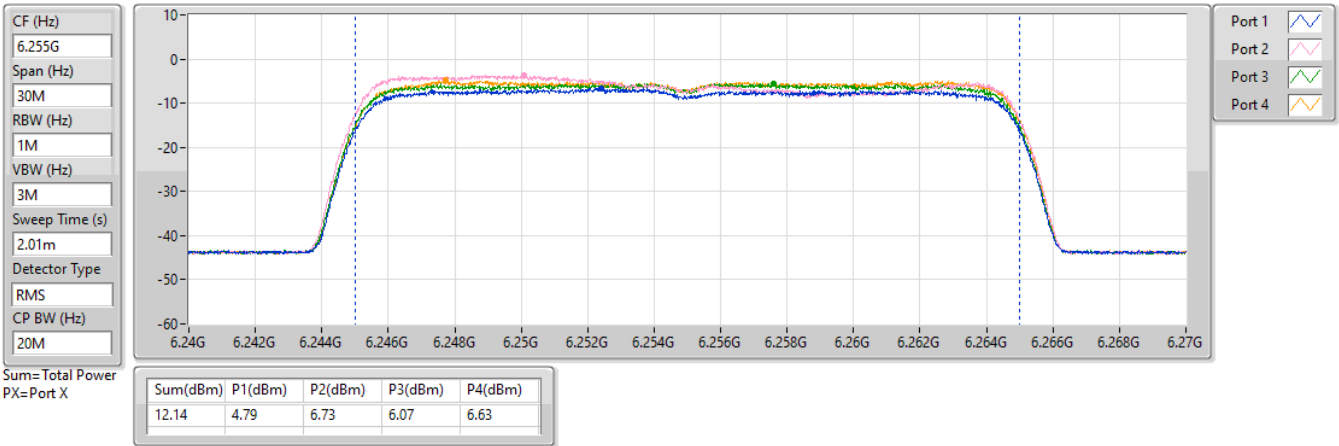
#### AFC Capability – Inquired Frequency & Channel

Frequency (MHz): 6255

5.925-6.425GHz\_802.11be EHT20\_4TX

AV Power

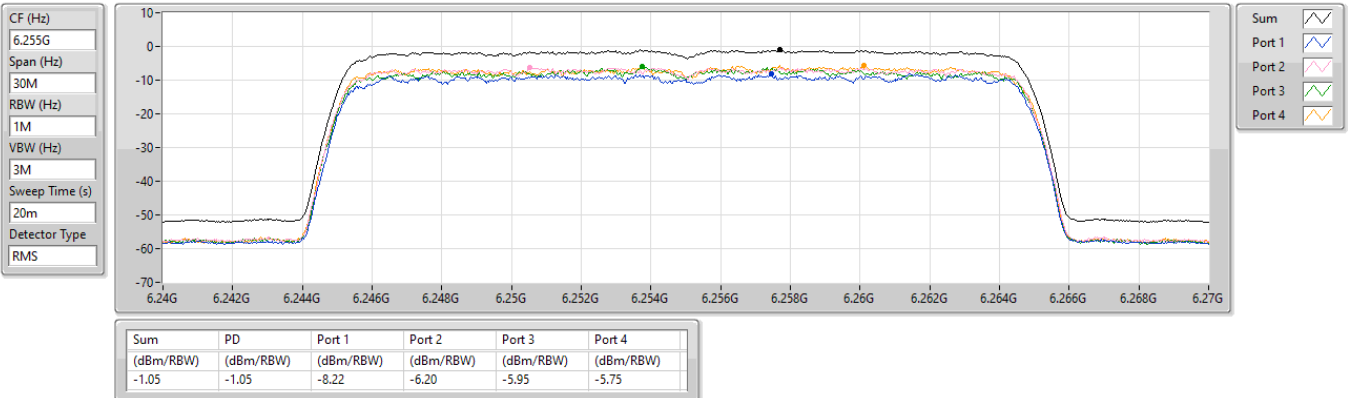
6255MHz\_TX



5.925-6.425GHz\_802.11be EHT20\_4TX

PSD

6255MHz





AFC DUT Compliance Test Report

## AFC DUT Compliance Test Report

### DUT Information

|                   |                   |
|-------------------|-------------------|
| AFC DUT System    | Standard Power AP |
| DUT Vendor Name   | Gemtek            |
| DUT Product Model | W1700K            |

### Test Result

| FCC Requirements                                   | TestCaseName                                                                                   | Test Result |
|----------------------------------------------------|------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDUAU34_Frequency_10617_1 (Unsuccessful spectrum access update)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_SP\_AP\_AFCDUAU34\_Frequency\_10617\_1 (Unsuccessful spectrum access update)

TestResult:PASS

Band:6GHz

| Measurements Name                       | Description                                                                           | Value | Validation Result |
|-----------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION                    | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST    | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information                                              | true  | PASS              |
|                                         | AFC DUT transmit                                                                      |       |                   |

3.4\_10617.html[2025/9/23 上午 09:12:35]



### 3.4 AFCD.UAU Test Result

### Appendix D

AFC DUT Compliance Test Report

|                                                       |                                                                                                                                                  |       |      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1            | power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (23 dBm/MHz PSD) in Spectrum Reponse] on channel 141 bandwidth 20. | true  | PASS |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                          | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                           | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                             | false | PASS |

3.4\_10617.html[2025/9/23 上午 09:12:35]



AFC DUT Compliance Test Report

## AFC DUT Compliance Test Report

### DUT Information

|                   |                   |
|-------------------|-------------------|
| AFC DUT System    | Standard Power AP |
| DUT Vendor Name   | Gemtek            |
| DUT Product Model | W1700K            |

### Test Result

| FCC Requirements                                   | TestCaseName                                                                                 | Test Result |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 (Unsuccessful spectrum access update)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_SP\_AP\_AFCDUAU34\_Channel\_10624\_1 (Unsuccessful spectrum access update)

TestResult:PASS

Band:6GHz

| Measurements Name                    | Description                                                                           | Value | Validation Result |
|--------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION                 | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |

3.4\_10624.html[2025/9/23 上午 09:12:45]



### 3.4 AFCD.UAU Test Result

### Appendix D

AFC DUT Compliance Test Report

|                                            |                                                                                                                                                                  |       |      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1    | Valid mandatory registration information                                                                                                                         | true  | PASS |
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1 | AFC DUT transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD) , SP limits (36.0 dBm EIRP) in Spectrum Reponse] on channel 173 bandwidth 20. | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                                             | false | PASS |

3.4\_10624.html[2025/9/23 上午 09:12:45]



AFC DUT Compliance Test Report

## AFC DUT Compliance Test Report

### DUT Information

|                   |                   |
|-------------------|-------------------|
| AFC DUT System    | Standard Power AP |
| DUT Vendor Name   | Gemtek            |
| DUT Product Model | W1700K            |

### Test Result

| FCC Requirements                                   | TestCaseName                                                                                          | Test Result |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------|
| 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i) | <a href="#">CT_AFC_SP_AP_AFCDUAU34_FrequencyChannel_10631_1 (Unsuccessful spectrum access update)</a> | PASS        |

### Test Measurements

TestCaseName: CT\_AFC\_SP\_AP\_AFCDUAU34\_FrequencyChannel\_10631\_1 (Unsuccessful spectrum access update)

TestResult:PASS

Band:6GHz

| Measurements Name                       | Description                                                                           | Value | Validation Result |
|-----------------------------------------|---------------------------------------------------------------------------------------|-------|-------------------|
| AFC_DUT_SP_OPERATION                    | AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response | false | PASS              |
| AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST    | AFC DUT sends an Available Spectrum Inquiry Request                                   | true  | PASS              |
| AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1 | Valid mandatory registration information                                              | true  | PASS              |
|                                         | AFC DUT                                                                               |       |                   |

3.4\_10631.html[2025/9/23 上午 09:12:54]



### 3.4 AFCD.UAU Test Result

### Appendix D

AFC DUT Compliance Test Report

|                                                       |                                                                                                                                                                        |       |      |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1            | transmit power in the band is less than CEILING[LPI limits (5 dBm/MHz PSD), SP limits (23 dBm/MHz PSD, 36.0 dBm EIRP) in Spectrum Reponse] on channel 61 bandwidth 20. | true  | PASS |
| AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS | AFC DUT conforms to not exceed emissions limits in adjacent frequencies                                                                                                | true  | PASS |
| AFC_DUT_SP_OPERATION_NO_REQ                           | AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case                                                                                   | false | PASS |

3.4\_10631.html[2025/9/23 上午 09:12:54]

**AFC Capability – Inquired Frequency**

CT\_AFC\_SP\_AP\_AFCDUAU34\_Frequency\_10617\_1

##### 2025-09-16T05:26:42Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "User-Agent": "libcrp/0.1",
    "Accept": "application/json",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.168.0.11",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "639",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "52083435",
        "deviceDescriptor": {
          "serialNumber": "W1700K2524000099",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "MXF-W1700K2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.985869,
          "latitude": 37.381933
        },
        "majorAxis": 150,
```

```
        "minorAxis": 150,
        "orientation": 0
    },
    "elevation": {
        "height": 15,
        "heightType": "AGL",
        "verticalUncertainty": 2
    },
    "indoorDeployment": 0
},
"inquiredFrequencyRange": [
    {
        "lowFrequency": 5925,
        "highFrequency": 6425
    },
    {
        "lowFrequency": 6525,
        "highFrequency": 6875
    }
],
"minDesiredPower": 0
}
]
```

```
##### 2025-09-16T05:26:42Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
```

```
        "highFrequency": 5945,
        "lowFrequency": 5925
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 5965,
        "lowFrequency": 5945
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 5985,
        "lowFrequency": 5965
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6005,
        "lowFrequency": 5985
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6025,
        "lowFrequency": 6005
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6045,
        "lowFrequency": 6025
```

```
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6065,
      "lowFrequency": 6045
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6085,
      "lowFrequency": 6065
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6105,
      "lowFrequency": 6085
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6125,
      "lowFrequency": 6105
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6145,
      "lowFrequency": 6125
    },
    "maxPsd": 23
  }
```

```
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6165,  
        "lowFrequency": 6145  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6185,  
        "lowFrequency": 6165  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6205,  
        "lowFrequency": 6185  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6245,  
        "lowFrequency": 6225  
      },  
      "maxPsd": 23  
    },  
    {  
      "frequencyRange": {  
        "highFrequency": 6265,  
        "lowFrequency": 6245  
      },  
      "maxPsd": 23  
    },  
    {
```

```
"frequencyRange": {
  "highFrequency": 6285,
  "lowFrequency": 6265
},
"maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6305,
    "lowFrequency": 6285
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6325,
    "lowFrequency": 6305
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6345,
    "lowFrequency": 6325
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6365,
    "lowFrequency": 6345
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6385,
```

```
        "lowFrequency": 6365
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6545,
        "lowFrequency": 6525
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6565,
        "lowFrequency": 6545
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6585,
        "lowFrequency": 6565
      },
    },
```

```
"maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6605,
    "lowFrequency": 6585
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6625,
    "lowFrequency": 6605
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6645,
    "lowFrequency": 6625
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6665,
    "lowFrequency": 6645
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6685,
    "lowFrequency": 6665
  },
  "maxPsd": 23
},
},
```

```
{
  "frequencyRange": {
    "highFrequency": 6705,
    "lowFrequency": 6685
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6725,
    "lowFrequency": 6705
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6745,
    "lowFrequency": 6725
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6765,
    "lowFrequency": 6745
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6785,
    "lowFrequency": 6765
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
```

```
        "highFrequency": 6805,
        "lowFrequency": 6785
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6825,
        "lowFrequency": 6805
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6845,
        "lowFrequency": 6825
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6865,
        "lowFrequency": 6845
    },
    "maxPsd": 23
}
],
"requestId": "52083435",
"availabilityExpireTime": "2025-09-17T05:26:42Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**AFC Capability – Inquired Channel**

CT\_AFC\_SP\_AP\_AFCDUAU34\_Channel\_10624\_1

##### 2025-09-16T02:24:37Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "User-Agent": "libcrp/0.1",
    "Accept": "application/json",
    "Content-Type": "application/json",
    "Expect": "100-continue",
    "X-Forwarded-For": "192.168.0.11",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1364",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "94794485",
        "deviceDescriptor": {
          "serialNumber": "W1700K2524000099",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "MXF-W1700K2"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -121.985869,
          "latitude": 37.381933
        },
        "majorAxis": 150,
```

```
"minorAxis": 150,
"orientation": 0
},
"elevation": {
  "height": 15,
  "heightType": "AGL",
  "verticalUncertainty": 2
},
"indoorDeployment": 0
},
"inquiredChannels": [
  {
    "globalOperatingClass": 131,
    "channelCfi": [
      1,
      5,
      9,
      13,
      17,
      21,
      25,
      29,
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
```



93,  
97,  
101,  
105,  
109,  
113,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,  
201,  
205,  
209,  
213,  
217,  
221,  
225,  
229,  
233

]

```
    },  
    {  
      "globalOperatingClass": 132,  
      "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        99,  
        107,  
        115,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179,  
        187,  
        195,  
        203,  
        211,  
        219,  
        227  
      ]  
    },  
    {  
      "globalOperatingClass": 133,
```

```
"channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    103,  
    119,  
    135,  
    151,  
    167,  
    183,  
    199,  
    215  
]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,  
        79,  
        111,  
        143,  
        175,  
        207  
    ]  
},  
{  
    "globalOperatingClass": 136,  
    "channelCfi": [  
        2  
    ]  
},  
{  
    "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63,
            95,
            127,
            159,
            191
        ]
    },
    ],
    "minDesiredPower": 0
}
]
```

##### 2025-09-16T02:24:37Z #####

```
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        1,
                        5,
                        9,
                        13,
                        17,
                        21,
                        25,
                        29,
                        33,
                        37,
```

41,  
45,  
49,  
53,  
57,  
61,  
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
36.0,  
36.0,  
36.0,



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```
        36.0
    ]
},
{
    "channelCfi": [
        3,
        11,
        19,
        27,
        35,
        43,
        51,
        59,
        67,
        75,
        83,
        91,
        123,
        131,
        139,
        147,
        155,
        163,
        171,
        179
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
```

```
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0
    ]
},
{
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0
    ]
}
```

```
    },
    {
      "channelCfi": [
        15,
        47,
        79,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0
      ]
    },
    {
      "channelCfi": [
        2
      ],
      "globalOperatingClass": 136,
      "maxEirp": [
        36.0
      ]
    }
  ],
  "requestId": "94794485",
  "availabilityExpireTime": "2025-09-17T02:24:37Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
},
"version": "1.4"
}
```

**AFC Capability – Inquired Frequency and Channel**

CT\_AFC\_SP\_AP\_AFCDUAU34\_FrequencyChannel\_10631\_1

##### 2025-09-15T07:23:55Z #####

```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "User-Agent": "libcrp/0.1",
    "Accept": "application/json",
    "Content-Type": "application/json",
    "Expect": "100-continue",
    "X-Forwarded-For": "192.168.0.134",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1492",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "15713469",
        "deviceDescriptor": {
          "serialNumber": "W1700K2524000099",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "MXF-W1700K2"
            }
          ]
        }
      },
      {
        "location": {
          "ellipse": {
            "center": {
              "longitude": -121.985869,
              "latitude": 37.381933
            },
            "majorAxis": 150,
```

```
        "minorAxis": 150,
        "orientation": 0
    },
    "elevation": {
        "height": 15,
        "heightType": "AGL",
        "verticalUncertainty": 2
    },
    "indoorDeployment": 0
},
"inquiredFrequencyRange": [
    {
        "lowFrequency": 5925,
        "highFrequency": 6425
    },
    {
        "lowFrequency": 6525,
        "highFrequency": 6875
    }
],
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
```

53,  
57,  
61,  
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
97,  
101,  
105,  
109,  
113,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181,  
185,  
189,  
193,  
197,

```
        201,  
        205,  
        209,  
        213,  
        217,  
        221,  
        225,  
        229,  
        233  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
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##### 2025-09-15T07:23:56Z #####

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Page No. : 43 of 57

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## Transmitting Power Measurement

### AFC Capability – Inquired Frequency

| AFCD.UAU: Unsuccessful spectrum access update |                  |                 |             |                              |            |                               |        |               |                            |                    |                                       |        |
|-----------------------------------------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| Freq (MHz)                                    | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
| 6655                                          | LPI              | 20              | 12.73       | 5.45                         | 18.18      | -                             | N/A    | -0.92         | 5.45                       | 4.53               | 5                                     | Pass   |
| 6655                                          | SP               | 20              | 25.09       | 5.45                         | 30.54      | -                             | N/A    | 12.27         | 5.45                       | 17.72              | 23                                    | Pass   |
| 6655                                          | LPI              | 20              | 12.55       | 5.45                         | 18.00      | -                             | N/A    | -1.14         | 5.45                       | 4.31               | 5                                     | Pass   |

### AFC Capability – Inquired Channel

| AFCD.UAU: Unsuccessful spectrum access update |                  |                 |             |                              |            |                               |        |               |                            |                    |                                       |        |
|-----------------------------------------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| Freq (MHz)                                    | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
| 6815                                          | LPI              | 20              | 12.48       | 5.45                         | 17.93      | -                             | N/A    | -1.06         | 5.45                       | 4.39               | 5                                     | Pass   |
| 6815                                          | SP               | 20              | 24.49       | 5.45                         | 29.94      | 36                            | Pass   | 11.09         | 5.45                       | 16.54              | -                                     | N/A    |
| 6815                                          | LPI              | 20              | 12.20       | 5.45                         | 17.65      | -                             | N/A    | -1.35         | 5.45                       | 4.10               | 5                                     | Pass   |

### AFC Capability – Inquired Frequency & Channel

| AFCD.UAU: Unsuccessful spectrum access update |                  |                 |             |                              |            |                               |        |               |                            |                    |                                       |        |
|-----------------------------------------------|------------------|-----------------|-------------|------------------------------|------------|-------------------------------|--------|---------------|----------------------------|--------------------|---------------------------------------|--------|
| Freq (MHz)                                    | Mode (LPI or SP) | Bandwidth (MHz) | Power (dBm) | Power Directional Gain (dBi) | EIRP (dBm) | AFC Response EIRP Limit (dBm) | Result | PSD (dBm/MHz) | PSD Directional Gain (dBi) | EIRP PSD (dBm/MHz) | AFC Response EIRP PSD Limit (dBm/MHz) | Result |
| 6255                                          | LPI              | 20              | 12.39       | 5.63                         | 18.02      | -                             | N/A    | -0.87         | 5.63                       | 4.76               | 5                                     | Pass   |
| 6255                                          | SP               | 20              | 23.80       | 5.63                         | 29.43      | 36                            | Pass   | 10.32         | 5.63                       | 15.95              | 23                                    | Pass   |
| 6255                                          | LPI              | 20              | 12.11       | 5.63                         | 17.74      | -                             | N/A    | -1.07         | 5.63                       | 4.56               | 5                                     | Pass   |

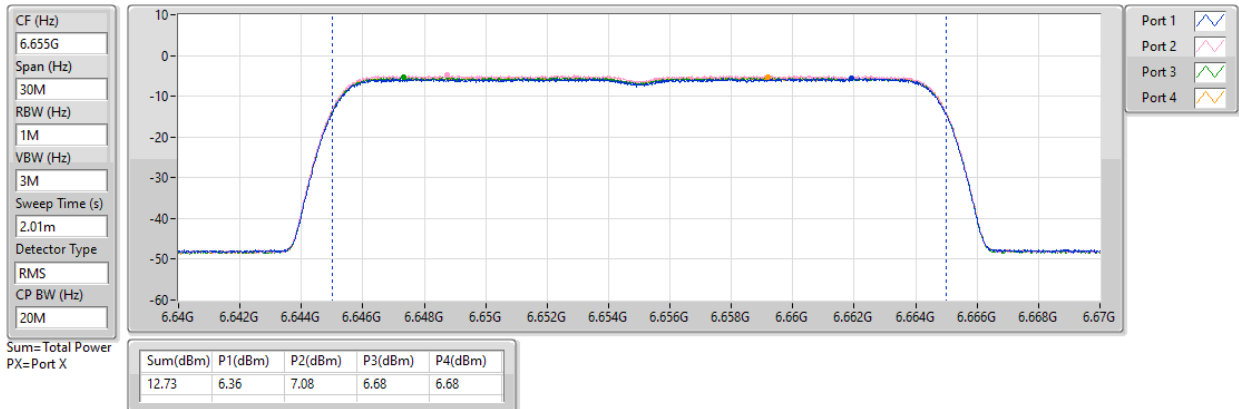
#### AFC Capability – Inquired Frequency

#### Frequency (MHz): 6655

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

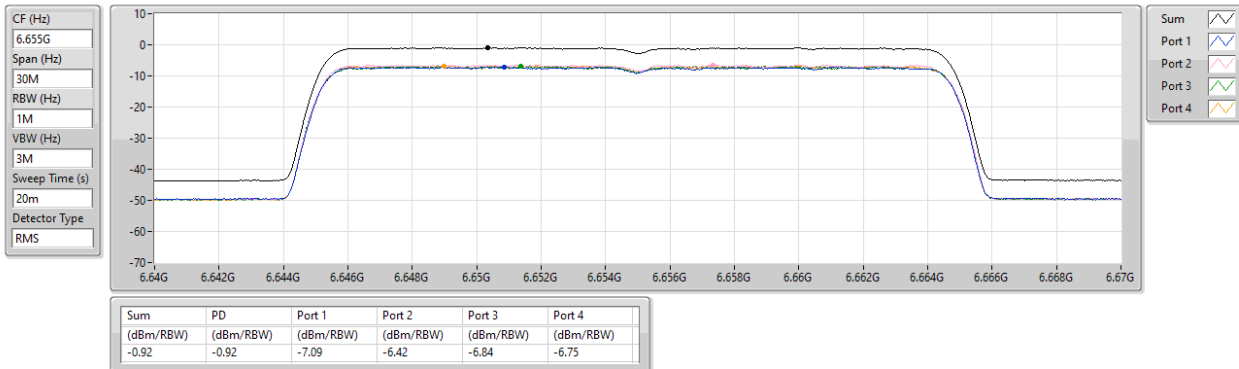
6655MHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6655MHz



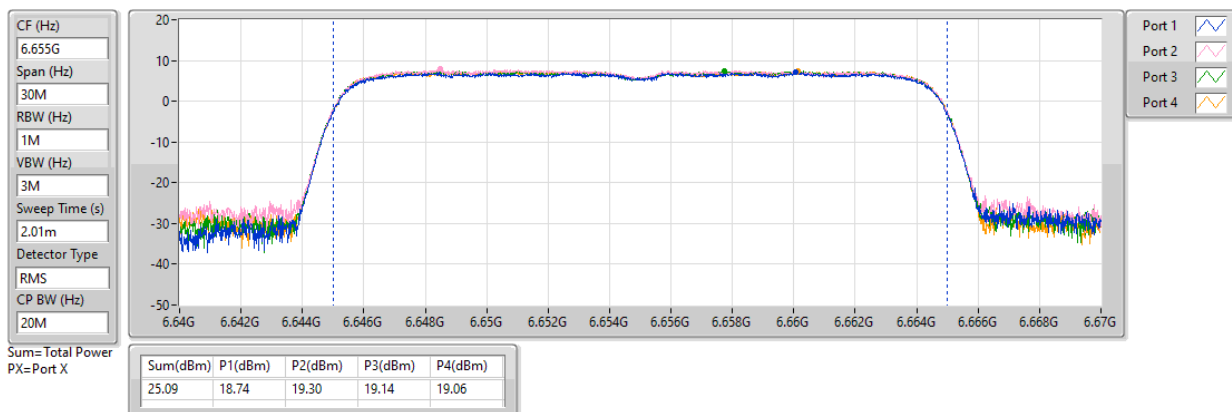
#### AFC Capability – Inquired Frequency

#### Frequency (MHz): 6655

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

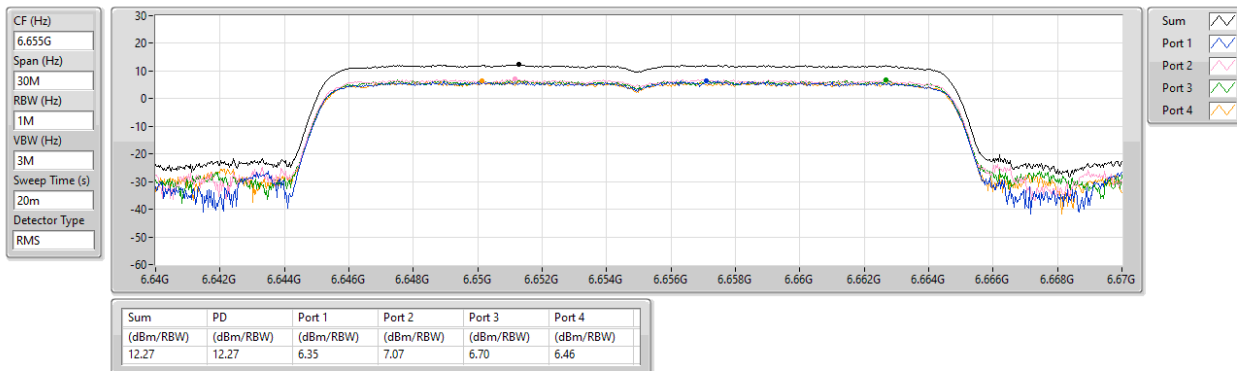
6655MHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6655MHz



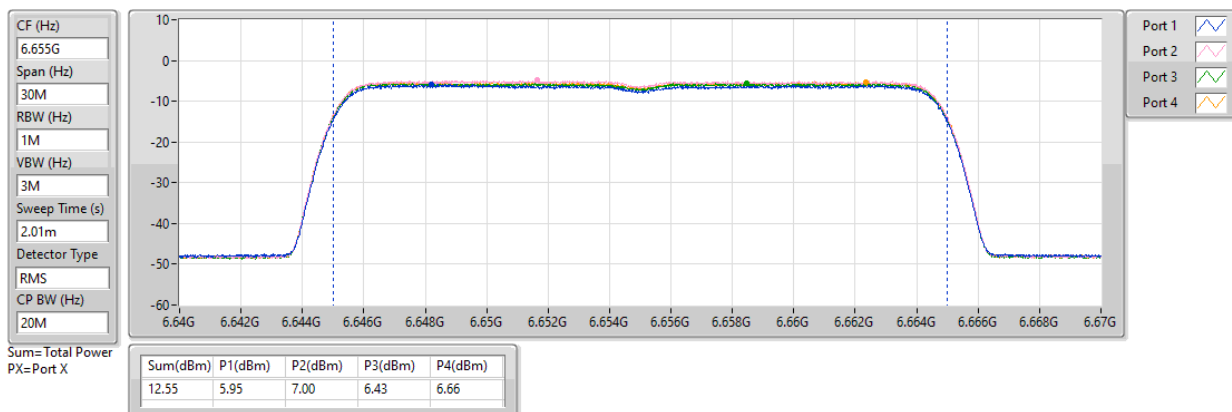
#### AFC Capability – Inquired Frequency

#### Frequency (MHz): 6655

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

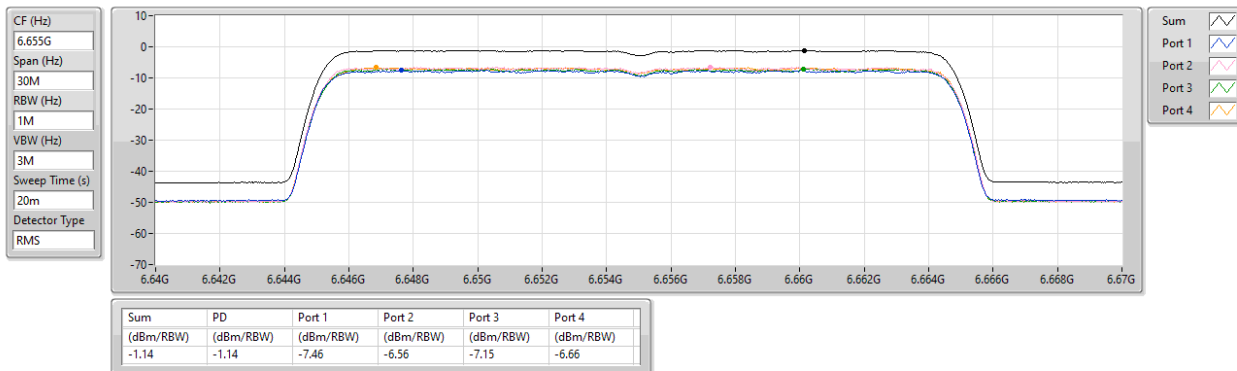
6655MHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6655MHz



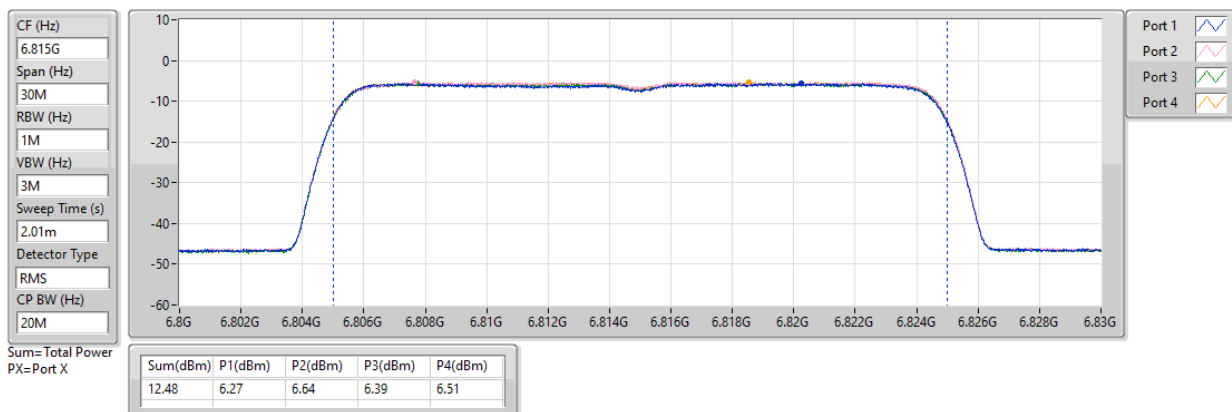
#### AFC Capability – Inquired Channel

Frequency (MHz): 6815

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

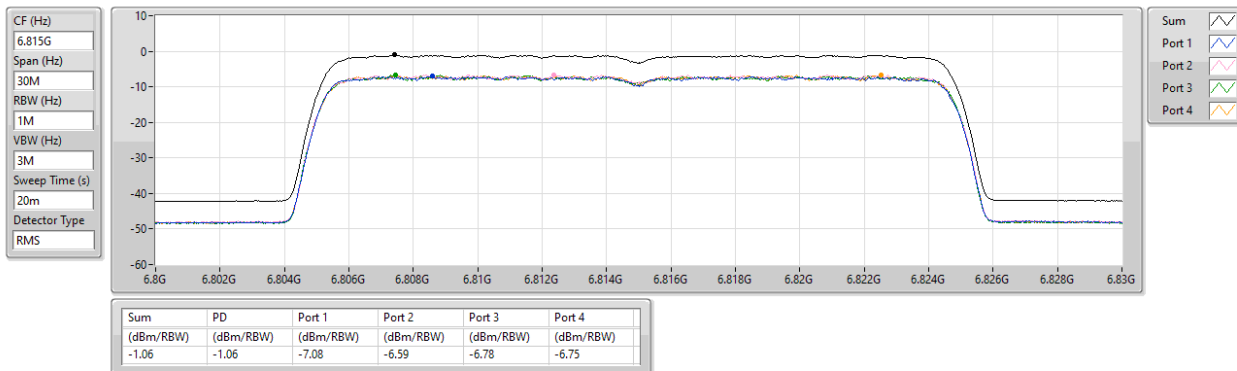
6815MHz Straddle 6.525-6.875GHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6815MHz Straddle 6.525-6.875GHz



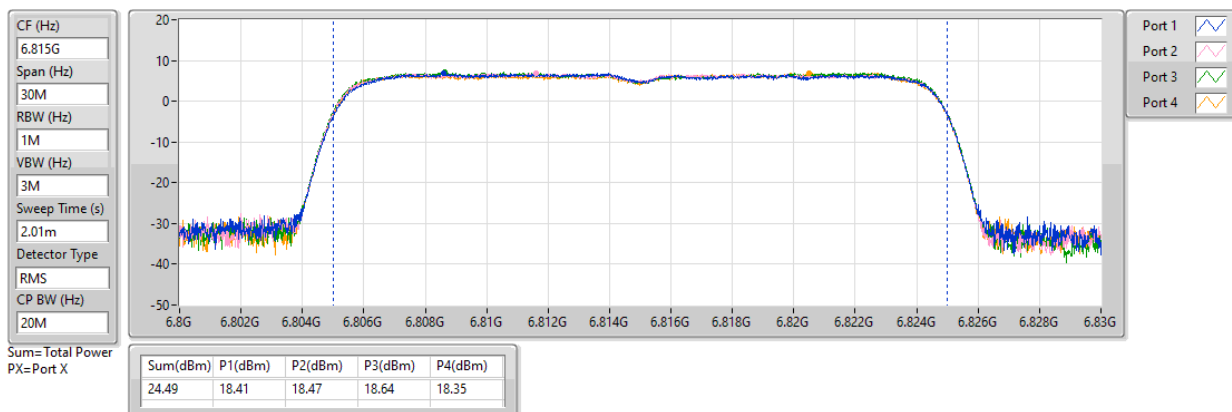
#### AFC Capability – Inquired Channel

Frequency (MHz): 6815

6.525-6.875GHz\_802.11be EHT20\_4TX

AV Power

6815MHz Straddle 6.525-6.875GHz\_TX



6.525-6.875GHz\_802.11be EHT20\_4TX

PSD

6815MHz Straddle 6.525-6.875GHz

