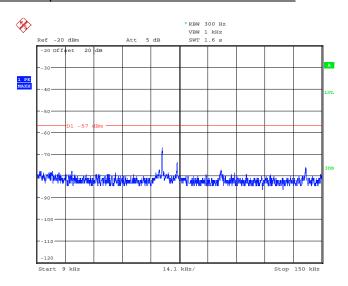


## Conducted spurious emissions at the antenna port:

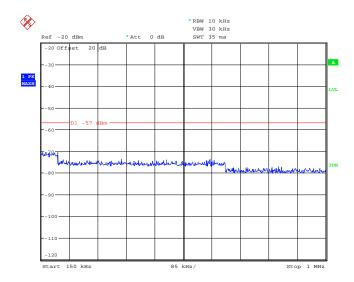
### Receive on 156.025 MHz and 162.025 MHz:

### 161141\_004.wmf: Receiver spurious emissions from 9 kHz to 150 kHz:



Remark: The emissions around 70 kHz, 78 kHz and 141 kHz are environmental disturbances.

### 161141 073.wmf: Receiver spurious emissions from 150 kHz to 1 MHz:

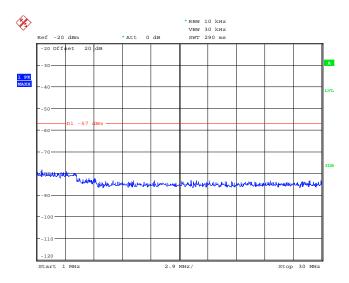


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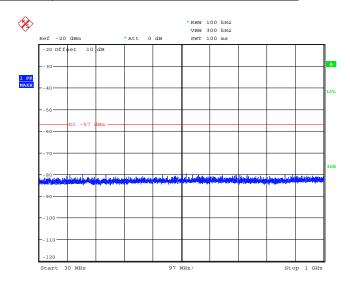
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## 161141\_074.wmf: Receiver spurious emissions from 1 MHz to 30 MHz:



## 161141\_006.wmf: Receiver spurious emissions from 30 MHz to 1 GHz:

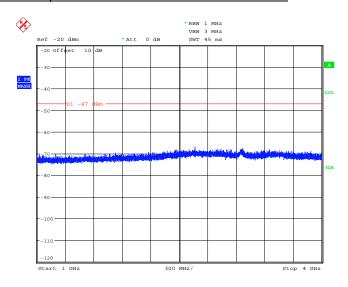


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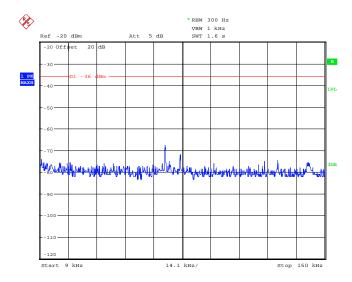


## 161141\_007.wmf: Receiver spurious emissions from 1 GHz to 4 GHz:



### Transmit mode on 156.025 MHz:

## 161141\_068.wmf: Transmitter spurious emissions from 9 kHz to 150 kHz



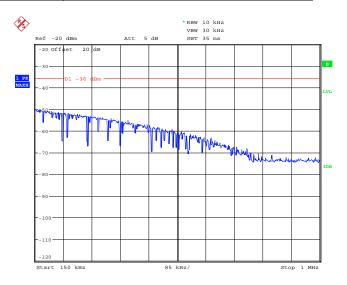
Remark: The emissions around 70 kHz, 78 kHz and 141 kHz are environmental disturbances.

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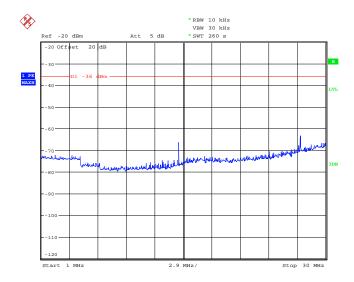
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## 161141\_069.wmf: Transmitter spurious emissions from 150 kHz to 1 MHz:



### 161141\_070.wmf: Transmitter spurious emissions from 1 MHz to 30 MHz:

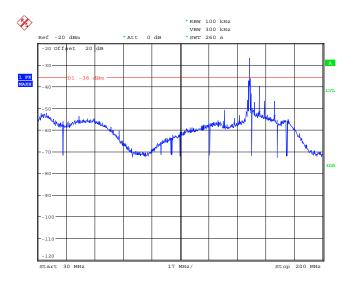


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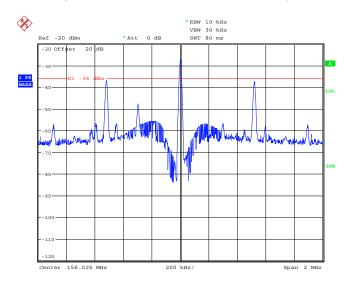
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## 161141\_059.wmf: Transmitter spurious emissions from 30 MHz to 200 MHz (carrier notched):



### <u>161141\_060.wmf</u>: Transmitter spurious emissions around the carrier (carrier notched):



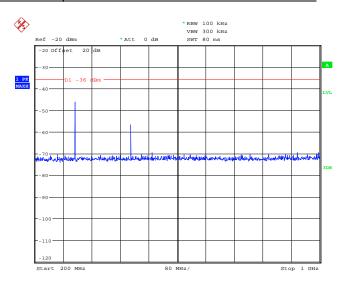
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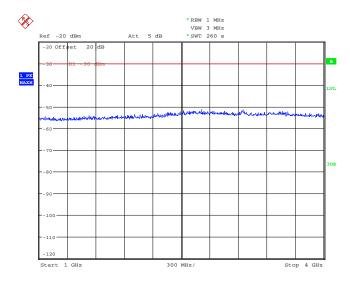
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## 161141\_061.wmf: Transmitter spurious emissions from 200 MHz to 1 GHz:



## 161141 072.wmf: Transmitter spurious emissions from 1 GHz to 4 GHz:



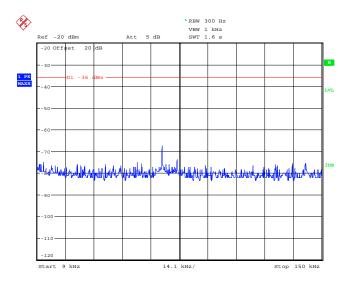
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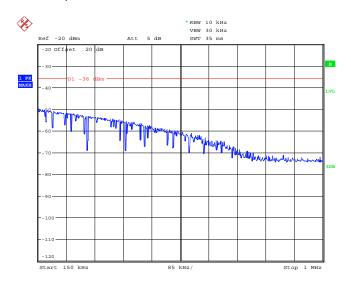
### Transmit mode on 162.025 MHz:

### 161141\_065.wmf: Transmitter spurious emissions from 9 kHz to 150 kHz



Remark: The emissions around 70 kHz, 78 kHz and 141 kHz are environmental disturbances.

## 161141 066.wmf: Transmitter spurious emissions from 150 kHz to 1 MHz:

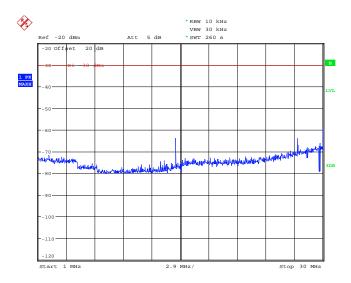


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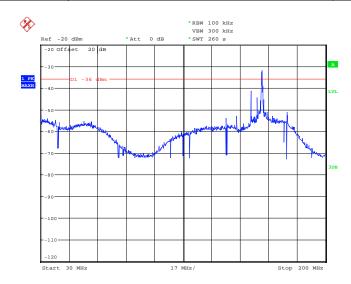
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## 161141\_067.wmf: Transmitter spurious emissions from 1 MHz to 30 MHz:



## 161141\_063.wmf: Transmitter spurious emissions from 30 MHz to 200 MHz (carrier notched):

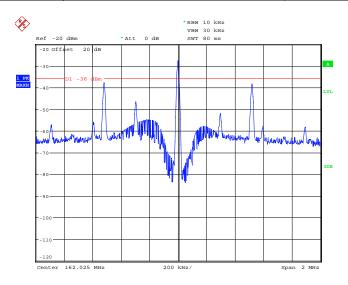


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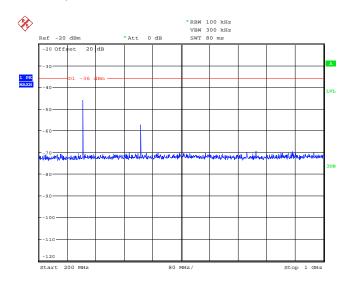
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## 161141\_064.wmf: Transmitter spurious emissions around the carrier (carrier notched):



### 161141\_062.wmf: Transmitter spurious emissions from 200 MHz to 1 GHz:

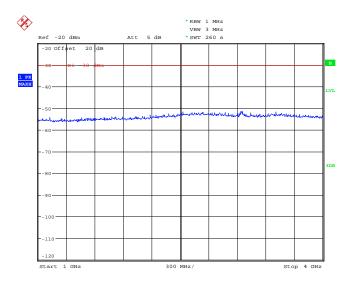


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## 161141\_071.wmf: Transmitter spurious emissions from 1 GHz to 4 GHz:



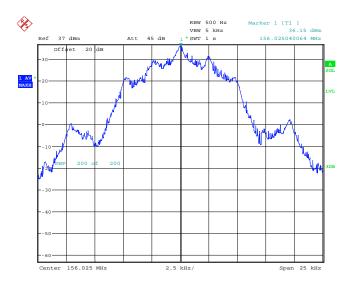
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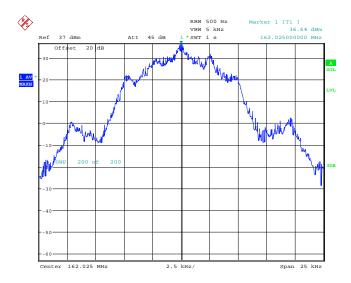


## **Transmitter output power:**

161141\_019.wmf: Transmitter output power operating on 156.025 MHz with 20 °C and 12.0 V DC (high power mode):



161141\_020.wmf: Transmitter output power operating on 162.025 MHz with 20 °C and 12.0 V DC (high power mode):



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## 161141\_022.wmf: Transmitter output power operating on 156.025 MHz with 20 °C and 12.0 V DC (low power mode):



# 161141\_021.wmf: Transmitter output power operating on 162.025 MHz with 20 °C and 12.0 V DC (low power mode):

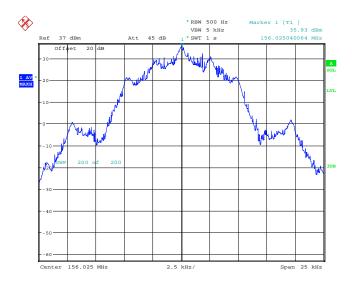


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## 161141\_024.wmf: Transmitter output power operating on 156.025 MHz with 55 °C and 9.6 V DC (high power mode):



## 161141\_023.wmf: Transmitter output power operating on 162.025 MHz with 55 °C and 9.6 V DC (high power mode):



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## 161141\_029.wmf: Transmitter output power operating on 156.025 MHz with 55 °C and 9.6 V DC (low power mode):



# 161141\_030.wmf: Transmitter output power operating on 162.025 MHz with 55 °C and 9.6 V DC (low power mode):



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# 161141\_025.wmf: Transmitter output power operating on 156.025 MHz with 55 °C and 31.2 V DC (high power mode):



## 161141\_026.wmf: Transmitter output power operating on 162.025 MHz with 55 °C and 31.2 V DC (high power mode):



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## 161141\_028.wmf: Transmitter output power operating on 156.025 MHz with 55 °C and 31.2 V DC (low power mode):



## 161141\_027.wmf: Transmitter output power operating on 162.025 MHz with 55 °C and 31.2 V DC (low power mode):

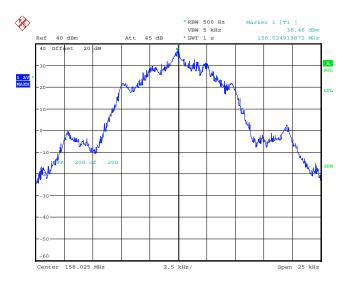


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# 161141\_044.wmf: Transmitter output power operating on 156.025 MHz with -15 °C and 9.6 V DC (high power mode):



## 161141\_043.wmf: Transmitter output power operating on 162.025 MHz with -15 °C and 9.6 V DC (high power mode):



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## 161141\_049.wmf: Transmitter output power operating on 156.025 MHz with -15 °C and 9.6 V DC (low power mode):



# 161141\_050.wmf: Transmitter output power operating on 162.025 MHz with -15 °C and 9.6 V DC (low power mode):



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## 161141\_045.wmf: Transmitter output power operating on 156.025 MHz with -15 °C and 31.2 V DC (high power mode):



## 161141\_046.wmf: Transmitter output power operating on 162.025 MHz with -15 °C and 31.2 V DC (high power mode):



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## 161141\_048.wmf: Transmitter output power operating on 156.025 MHz with -15 °C and 31.2 V DC (low power mode):



# 161141\_047.wmf: Transmitter output power operating on 162.025 MHz with -15 °C and 31.2 V DC (low power mode):



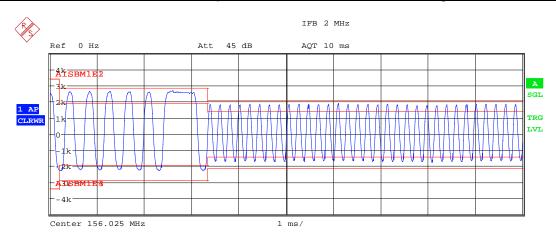
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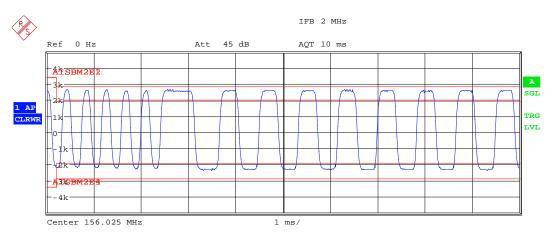


## **Modulation accuracy under extreme conditions**

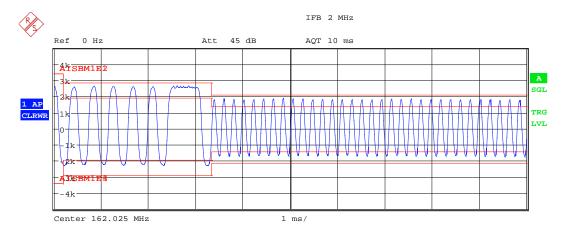
#### 161141\_031.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 1 at 55 ° and 9.6 V DC:



### 161141\_034.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 2 at 55 ° and 9.6 V DC:



#### 161141\_032.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 1 at 55 ° and 9.6 V DC:



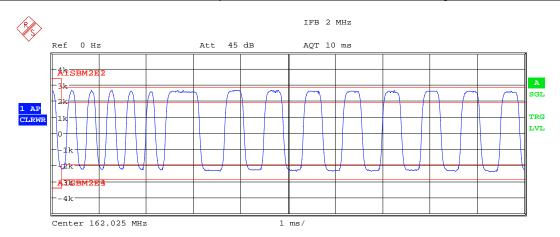
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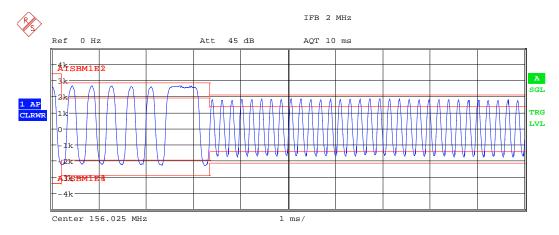
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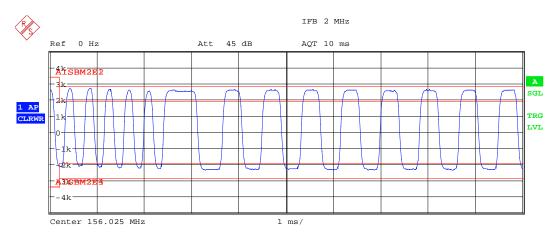
### 161141\_033.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 2 at 55 ° and 9.6 V DC:



## 161141 035.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 1 at 55 ° and 31.2 V DC:



## 161141\_036.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 2 at 55 ° and 31.2 V DC:



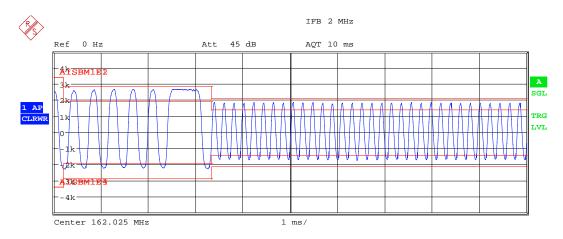
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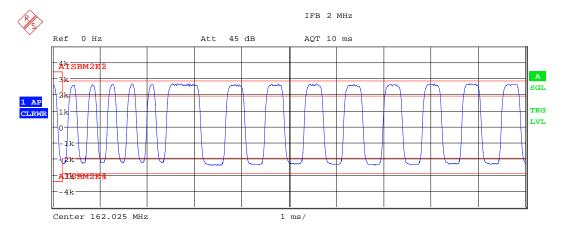
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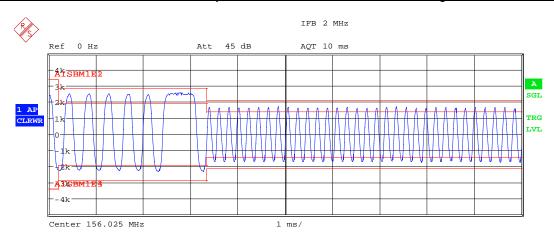
### 161141\_037.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 1 at 55 ° and 31.2 V DC:



## 161141\_038.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 2 at 55 ° and 31.2 V DC:



#### 161141 051.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 1 at -15 ° and 9.6 V DC:



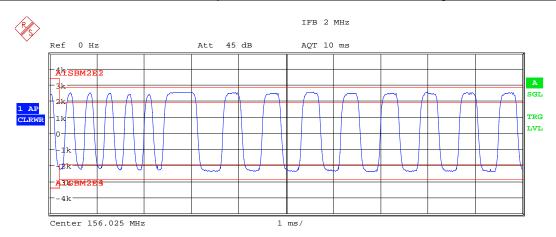
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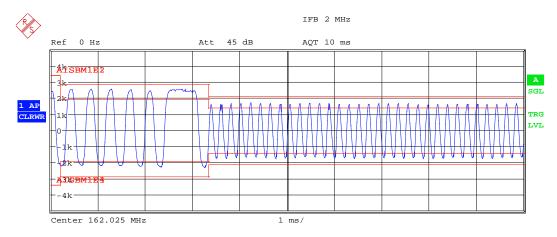
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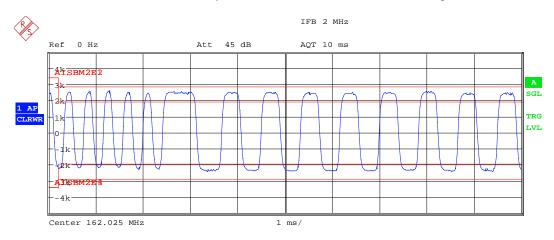
### 161141\_052.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 2 at -15 ° and 9.6 V DC:



### 161141\_054.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 1 at -15 ° and 9.6 V DC:



### 161141\_053.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 2 at -15 ° and 9.6 V DC:



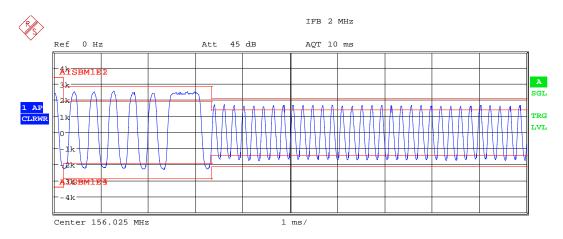
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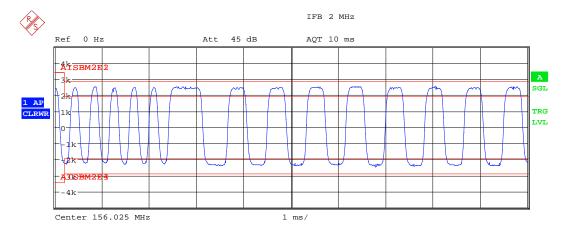
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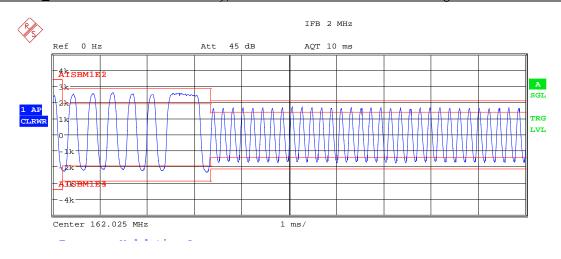
### 161141\_055.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 1 at -15 ° and 31.2 V DC:



### 161141\_056.wmf: Modulation accuracy, transmit on 156.025 MHz with test signal 2 at -15 ° and 31.2 V DC:



### 161141 058.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 1 at -15 ° and 31.2 V DC:



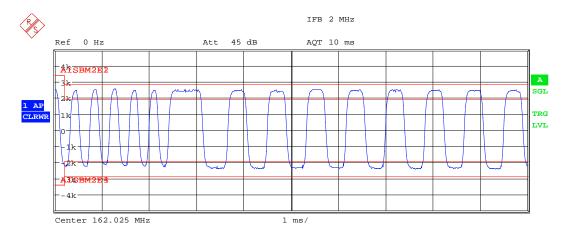
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## 161141\_057.wmf: Modulation accuracy, transmit on 162.025 MHz with test signal 2 at -15 ° and 31.2 V DC:



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