

NASA Ames Research Center  
 NNA11406550Q-AHT  
 ANRITSU COMPANY MS2035B VNA-SPECTRUM ANALYZER OR EQUAL  
 Question and Answer Set One

**Q1.** Can NASA be more specific about the part numbers and quantities required for the Anritsu MS2035B system?

**A1.** The following information does not change or revise the requirements listed in the RFQ, but is provided for clarification purposes:

In the RFQ the basic features of the basic product are listed first as salient characteristics. The core product is an integrated 2 Port VNA plus Spectrum Analyzer in a battery operated, portable, configuration:

1. Internal Battery and External AC Power.
2. Fully Integrated Product.
3. 2-Port, 1 Path Vector Network Analyzer (VNA). 500KHz – 6GHz
4. Fully Separate Spectrum Analyzer Functionality. 100 KHz – 6GHz

The other functionalities define value added capabilities that leverage the power, portability, and flexibility of the combined instruments:

5. Internal Bias Tee Functionality
6. Vector Voltmeter Functionality
7. High Accuracy RF Power Meter Functionality
8. Interference Analyzer Functionality
9. Channel Scanning Functionality
10. Coverage Mapper w/ GPS Functionality
11. Distance Domain Mode Measurement Functionality
12. AM/FM/PM Demodulation Analyzer Functionality
13. EtherNet Based Remote Interface Functionality

The first item in the 2<sup>nd</sup> group, “Vector Network / Spectrum Analyzer, Portable 6 GHz” defines the basic product description as represented above for ordering purposes by the manufacturer. The remaining items similarly define the specific options and accessories required by NASA as represented for ordering purposes by the manufacturer

RFQ #	Description	Quantity	Part Number
1	Vector Network / Spectrum Analyzer, Portable 6 GHz	1	MS2035B
2	Tee, Bias (Option 10)	1	MS2035B-0010
3	Voltmeter, Vector (Option 15)	1	MS2035B-0015
4	Power Meter, High Accuracy (Option 19)	1	MS2035B-0019
5	Analyzer, Interference (Option 25)	1	MS2035B-0025
6	Scanner, Channel (Option 27)	1	MS2035B-0027

7	Receiver, GPS (Option 31)	1	MS2035B-0031
8	Connectivity, Ethernet (Option 411)	1	MS2035B-0411
9	Mapping, Coverage (Option 431)	1	MS2035B-0431
10	Measurement, Distance-Domain (Option 501)	1	MS2035B-0501
11	Demodulator Analyzer, AM/FM/PM (Option 509)	1	MS2035B-0509
12	Power Sensor, USB True RMS (-40dBm to +23dBm)	1	MA24106A
13	Antenna, GPS Active	1	2000-1528R
14	Cable, Armored Test Port Extension, 1.5M	2	15NNF50-1.5C
15	Open/Short/Load, Precision	1	OSLN50-1
	Load, Precision	1	SM/PL-1
	Adapter, Precision	1	34NN50A
	Calibration, Premium (Option 99)	1	MS2035B-0099

Offerors shall submit a quotation that specifically lists each required item as listed above.

**Q2.** I believe that our company's model XX will have most of the Anritsu MS2035B features, would that be acceptable?

**A2.** Our requirement is for ALL the features and functionalities identified; not some of them, or, even most of them.

The comprehensive combination, quality, and accuracy of the capabilities and features available in the product, in a single, portable, instrument, is unique to this instrument and well matched to the diversity of comprehensive laboratory, portable, and field testing required by the diversity of our applications and intended uses.

The Anritsu unit is also compatible with other, similar, existing, Anritsu equipment in use at NASA Ames by our antenna team that we intend to leverage off of for equipment set-ups, measurements, automation scripting, and skilled operator knowledge to reduce the lead time and set-up overheads for operational use training and integration into the various measurement activities.

The, unsupported functionalities, those not covered by the XX instrument cited, would have to be specified and procured as separate, additional, pieces of test equipment, at significant product research, lead-time, and cost impacts, that would not meet the primary characteristics for portability and integrated functionality. The XX instrument cited does not meet the salient requirements for the application, and would not allow us to leverage the existing equipment set-ups, configurations, and user knowledge base that are unique to the Anritsu product.

**Q3.** It appears that NASA wants every available option for the Anritsu analyzer, is this true?

**A3.** Yes. NASA's requirement is for all the features and capabilities identified (see A1 above) and, yes, that includes most of the available functionalities of the product.

**Q4.** Can a large business (more than 500 employees) submit a quote that will be considered by NASA?

**A4.** No, this procurement is a small business set-aside; quotes from large businesses will not be considered.

End of Question and Answer Set One