

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121119\
 Data File : VU036133.D
 Acq On : 11 Dec 2019 15:10
 Operator : JC/MD
 Sample : K6167-18
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQX1

Quant Time: Dec 12 07:41:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 12 06:08:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	297571	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	322139	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	124178	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	131199	4.95	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.00%
7) Chloroethane-d5	1.93	69	126676	4.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.00%
11) 1,1-Dichloroethene-d2	2.59	63	140622	2.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.00%#
20) 2-Butanone-d5	4.70	46	264180	58.45	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.90%
24) Chloroform-d	5.11	84	213110	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
26) 1,2-Dichloroethane-d4	5.75	65	104753	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.77	84	396596	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.73	67	128048	5.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.20%
41) Toluene-d8	7.93	98	323155	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
43) trans-1,3-Dichloropropene-	8.21	79	45299	4.42	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.40%
46) 2-Hexanone-d5	8.68	63	196432	52.97	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.94%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	112067	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	123611	5.17	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	35449	1.190	ug/L	87
8) Chloroethane	1.95	64	19030	0.839	ug/L	98
13) Acetone	2.68	43	174814	30.470	ug/L	99
16) Methylene chloride	3.08	84	9860	0.328	ug/L	95
19) 1,1-Dichloroethane	3.92	63	74383	1.875	ug/L	98
21) 2-Butanone	4.78	43	13420	2.337	ug/L	94
22) cis-1,2-Dichloroethene	4.72	96	72691	3.134	ug/L	89
25) Chloroform	5.14	83	60793	1.375	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	36585	1.008	ug/L	96
33) Benzene	5.82	78	89451	1.016	ug/L	100
34) Trichloroethene	6.58	95	3396	0.145	ug/L	87
38) Bromodichloromethane	7.14	83	7908	0.266	ug/L	94
42) Toluene	8.00	91	19702	0.209	ug/L	91
51) Chlorobenzene	9.48	112	338647	5.146	ug/L	96
53) m,p-Xylene	9.72	106	5754	0.146	ug/L	92
54) o-Xylene	10.13	106	5632	0.152	ug/L	95
55) Styrene	10.14	104	8377	0.132	ug/L	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121119\
Data File : VU036133.D
Acq On : 11 Dec 2019 15:10
Operator : JC/MD
Sample : K6167-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFQX1

Quant Time: Dec 12 07:41:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 12 06:08:55 2019
Response via : Initial Calibration

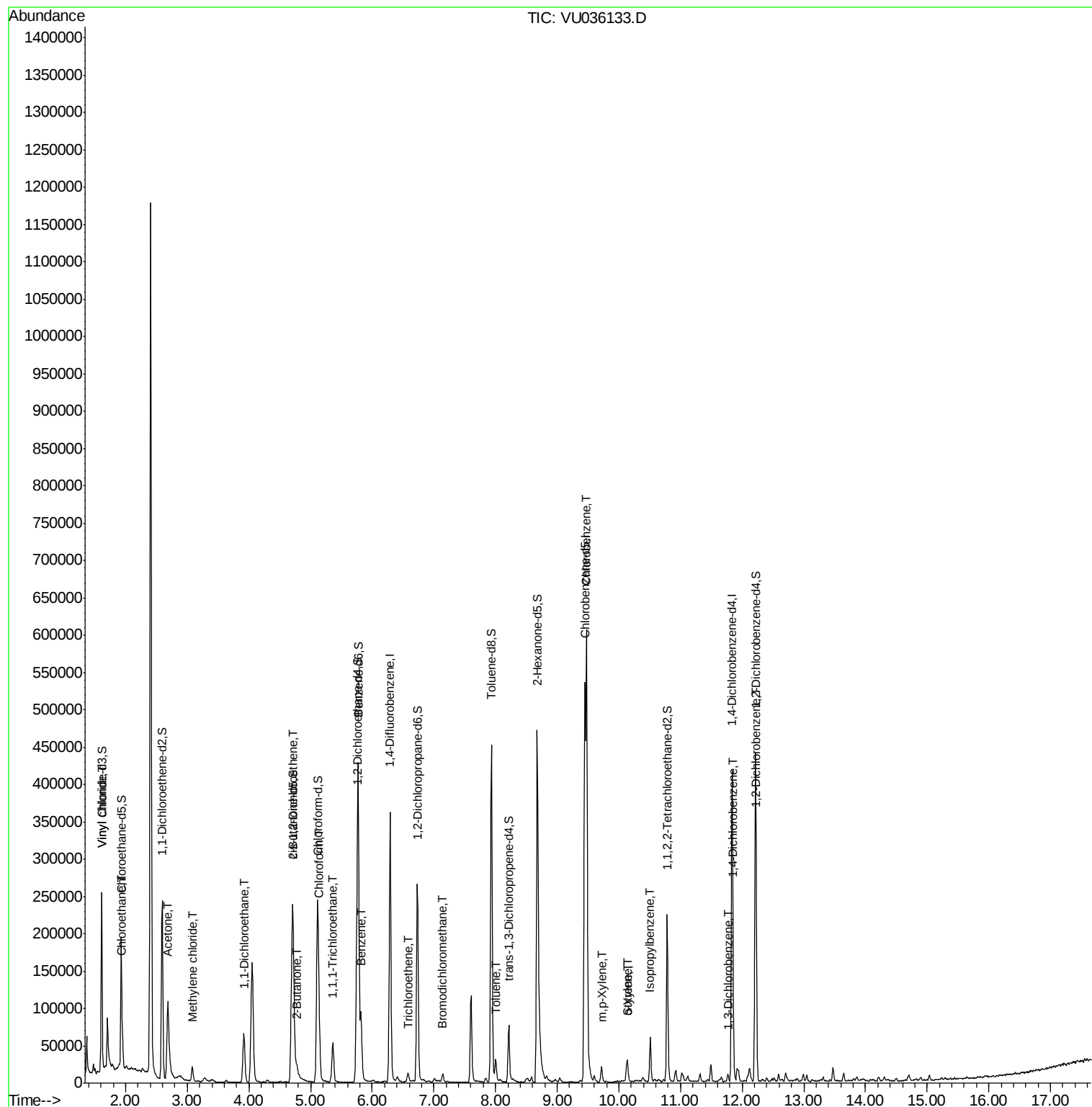
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.51	105	35207	0.361	ug/L	98
62) 1,3-Dichlorobenzene	11.77	146	2682	0.066	ug/L	93
63) 1,4-Dichlorobenzene	11.86	146	10644	0.266	ug/L	97
65) 1,2-Dichlorobenzene	12.24	146	9255	0.231	ug/L	91

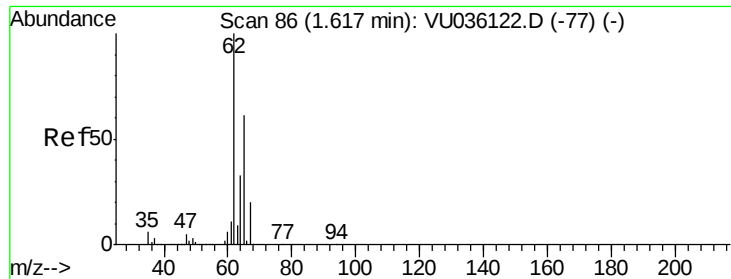
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121119\
Data File : VU036133.D
Acq On : 11 Dec 2019 15:10
Operator : JC/MD
Sample : K6167-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFQX1

Quant Time: Dec 12 07:41:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 12 06:08:55 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.190 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

Instrument :

MSVOA_U

ClientSampleId :

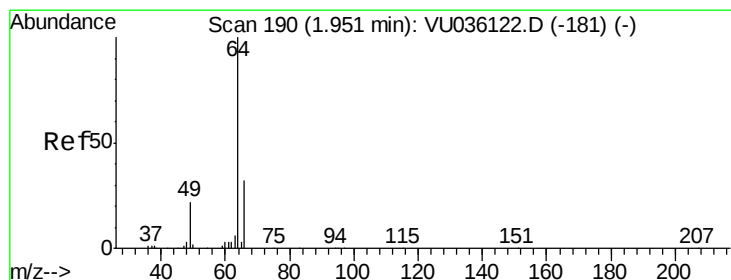
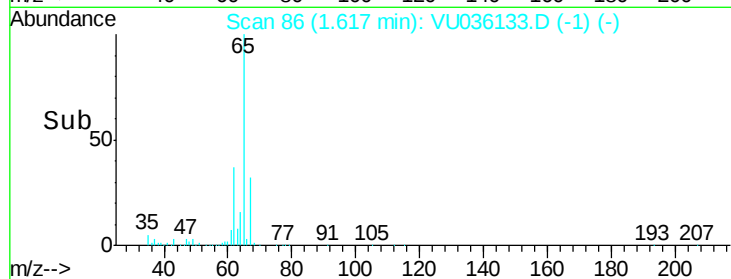
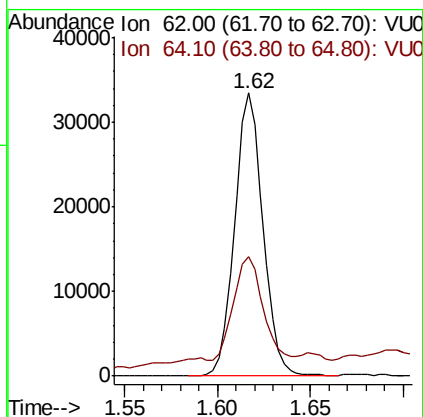
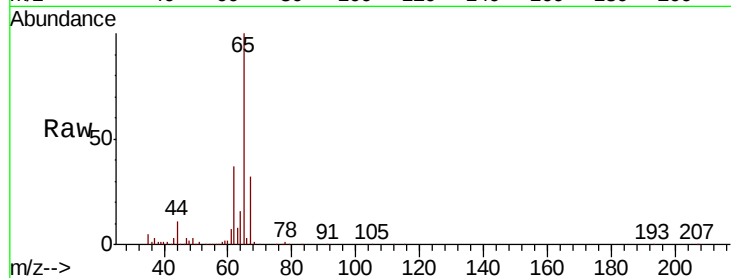
BFQX1

Tot Ion: 62 Resp: 35449

Ion Ratio Lower Upper

62 100

64 42.1 24.3 45.1



#8

Chloroethane

Concen: 0.839 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036133.D

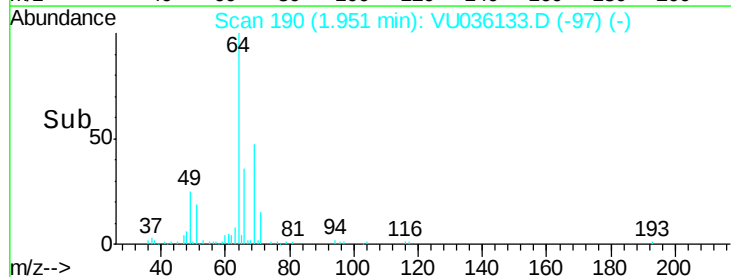
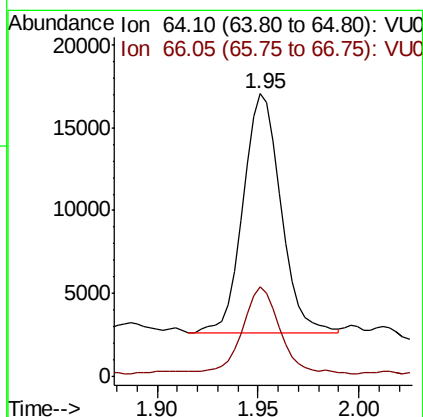
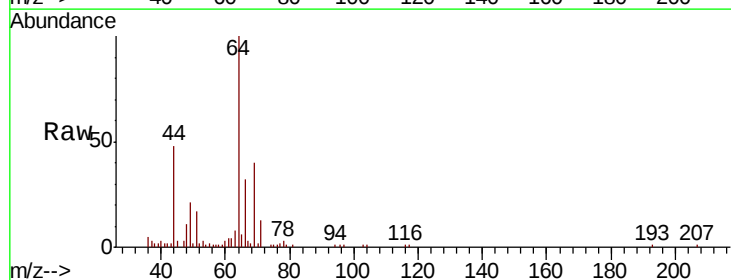
Acq: 11 Dec 2019 15:10

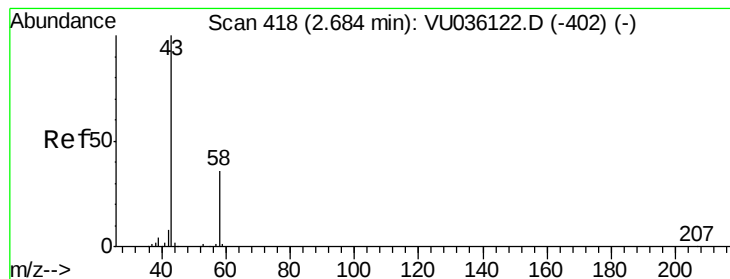
Tgt Ion: 64 Resp: 19030

Ion Ratio Lower Upper

64 100

66 31.8 21.5 39.9





#13

Acetone

Concen: 30.470 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

Instrument :

MSVOA_U

ClientSampleId :

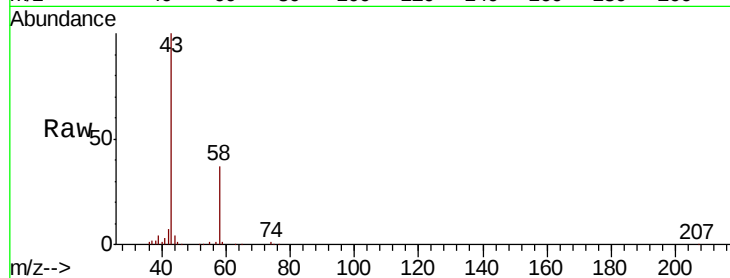
BFQX1

Tot Ion: 43 Resp: 174814

Ion Ratio Lower Upper

43 100

58 37.4 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU036122.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU036122.D (-402) (-)

2.68

60000

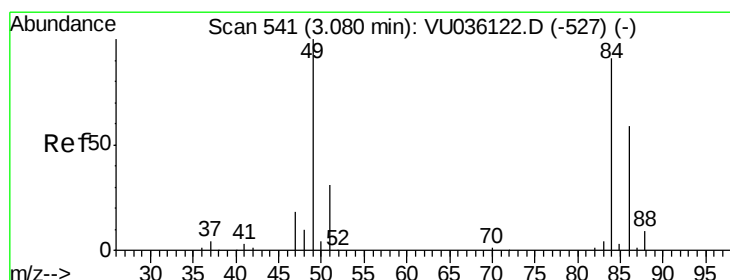
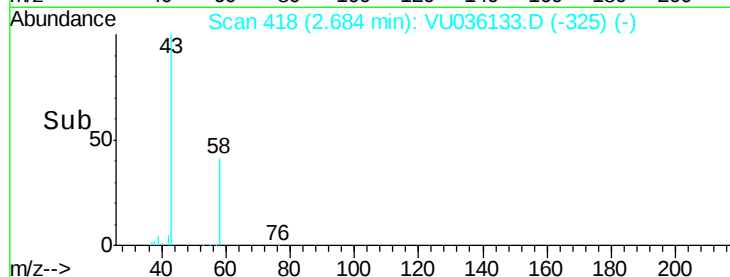
40000

20000

0

Time-->

2.60 2.65 2.70 2.75 2.80



#16

Methylene chloride

Concen: 0.328 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

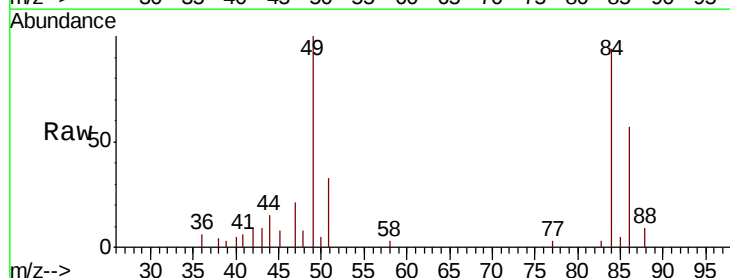
Tgt Ion: 84 Resp: 9860

Ion Ratio Lower Upper

84 100

86 61.0 47.5 88.3

49 106.5 76.9 142.9



Abundance Ion 84.05 (83.75 to 84.75): VU036122.D (-527) (-)

Ion 86.00 (85.70 to 86.70): VU036122.D (-527) (-)

Ion 49.10 (48.80 to 49.80): VU036122.D (-527) (-)

3.08

6000

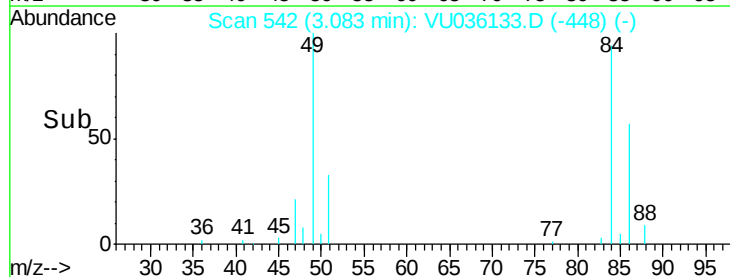
4000

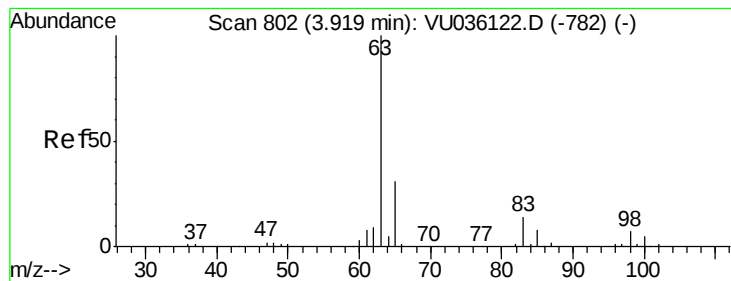
2000

0

Time-->

3.05 3.10 3.15





#19

1,1-Dichloroethane

Concen: 1.875 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

Instrument :

MSVOA_U

ClientSampleId :

BFQX1

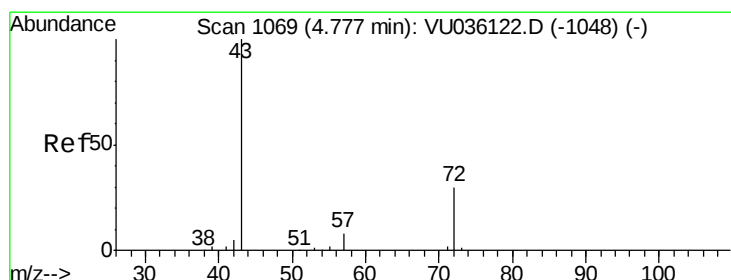
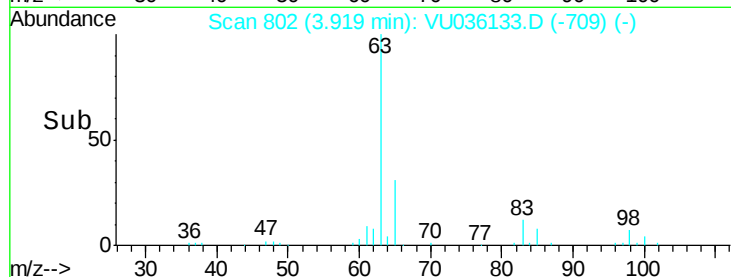
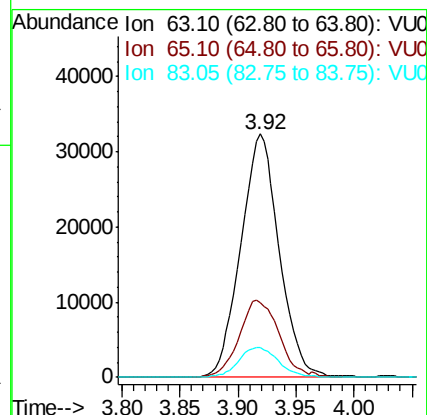
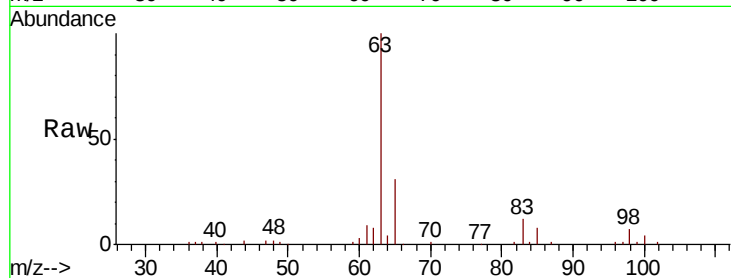
Tot Ion: 63 Resp: 74383

Ion Ratio Lower Upper

63 100

65 30.6 21.8 40.4

83 12.0 10.1 18.9



#21

2-Butanone

Concen: 2.337 ug/L

RT: 4.78 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VU036133.D

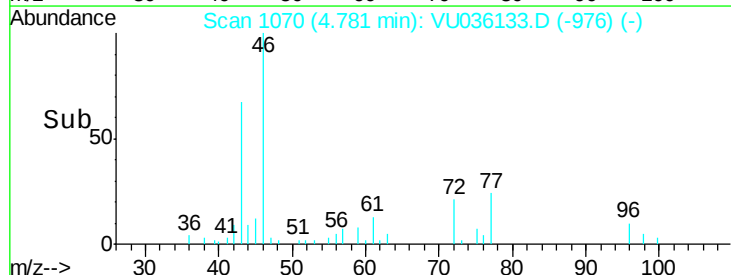
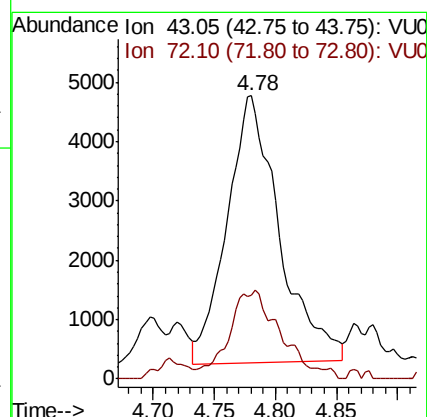
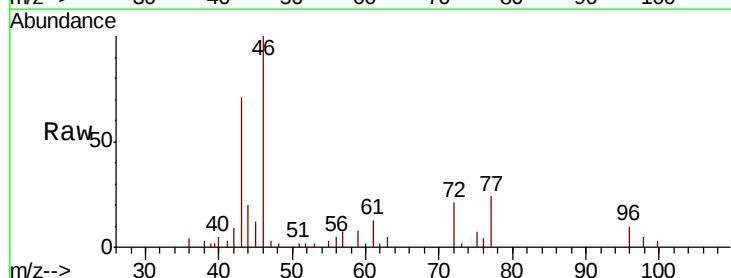
Acq: 11 Dec 2019 15:10

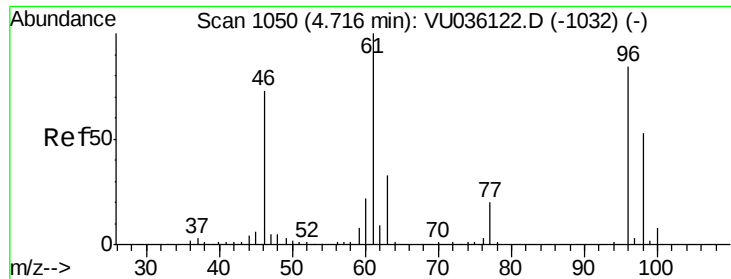
Tgt Ion: 43 Resp: 13420

Ion Ratio Lower Upper

43 100

72 33.0 15.0 45.0

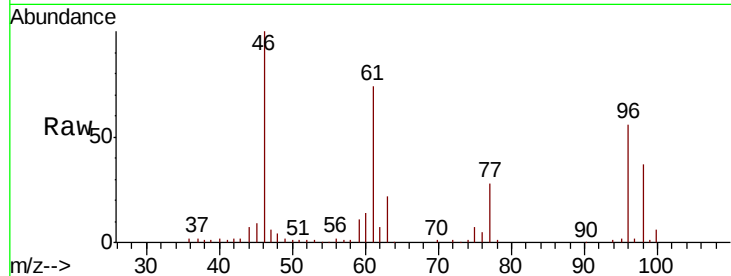




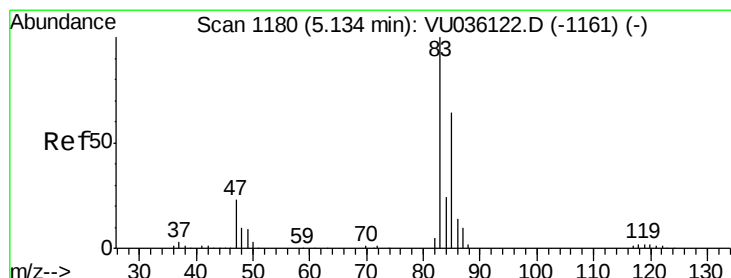
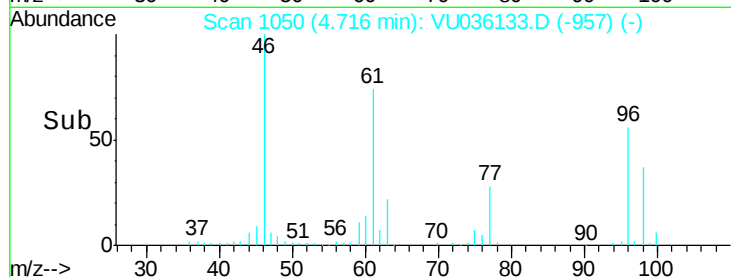
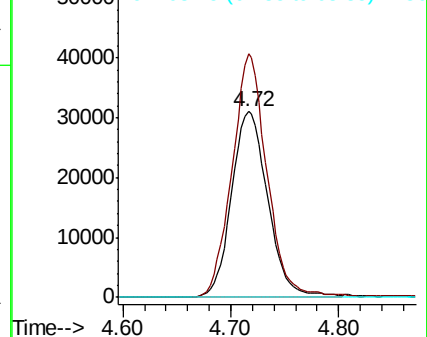
#22
 cis-1,2-Dichloroethene
 Concen: 3.134 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU036133.D
 Acq: 11 Dec 2019 15:10

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQX1

Tot Ion: 96 Resp: 72691
 Ion Ratio Lower Upper
 96 100
 61 131.1 83.0 154.2
 68 0.0 0.0 0.0

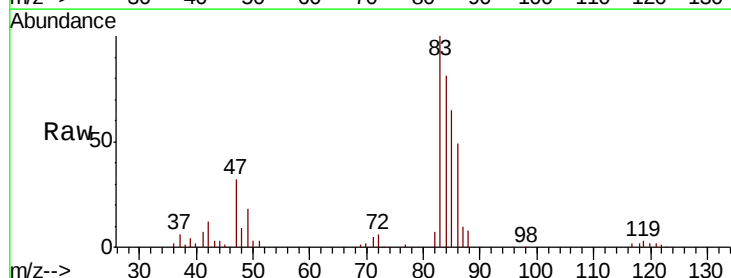


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

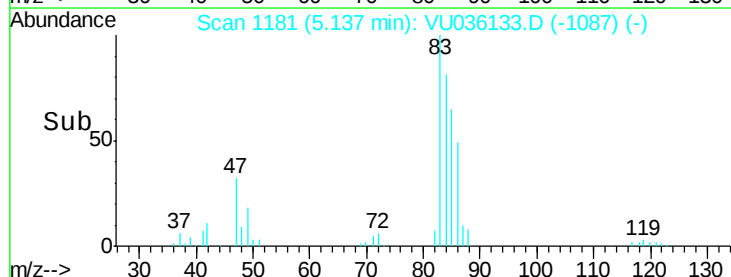
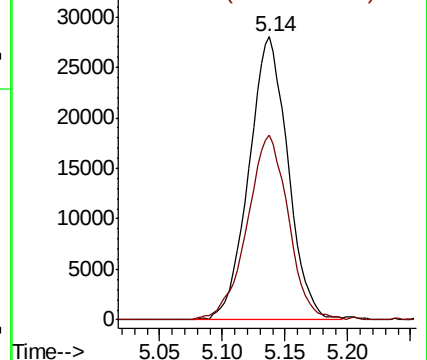


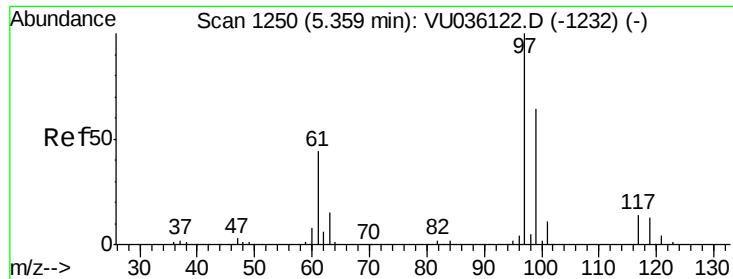
#25
 Chloroform
 Concen: 1.375 ug/L
 RT: 5.14 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VU036133.D
 Acq: 11 Dec 2019 15:10

Tgt Ion: 83 Resp: 60793
 Ion Ratio Lower Upper
 83 100
 85 65.1 43.9 81.5



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

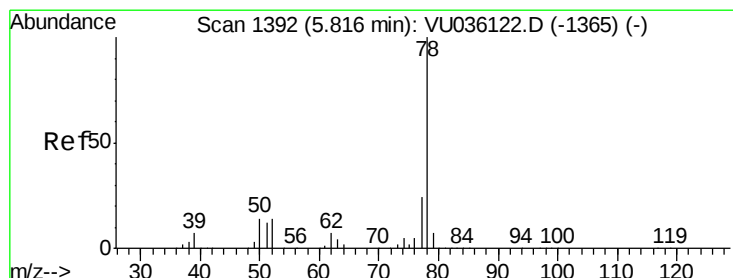
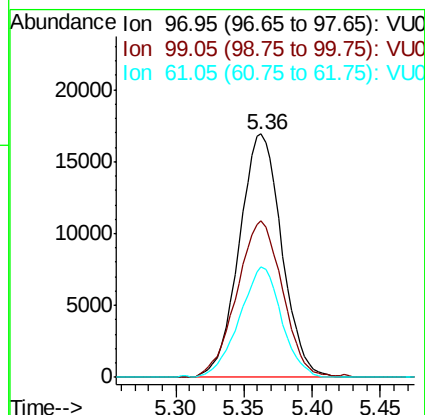
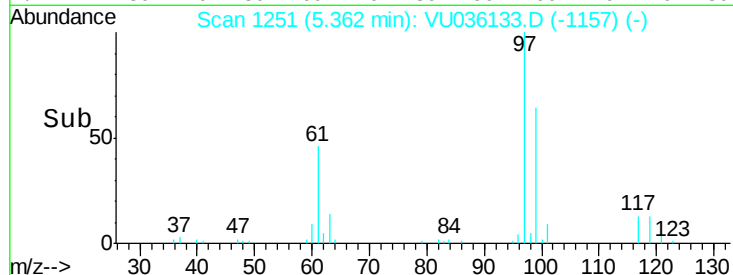
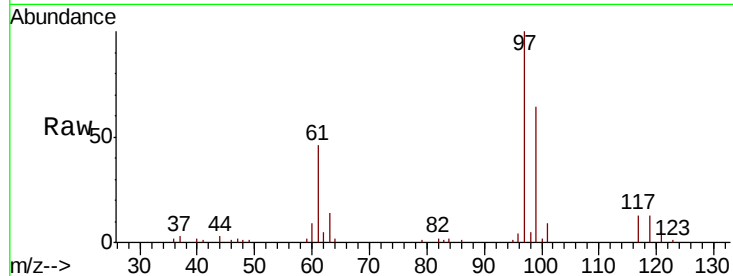




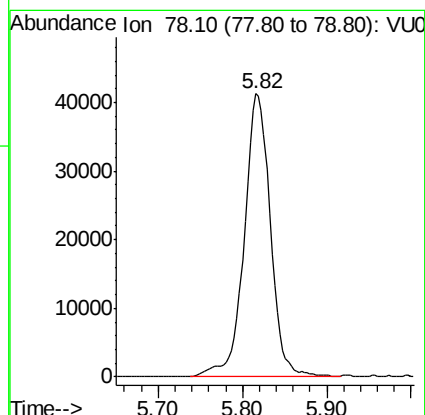
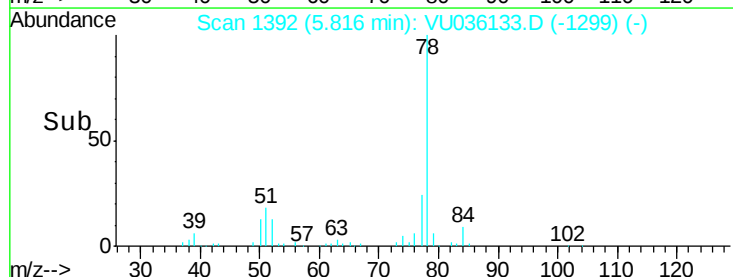
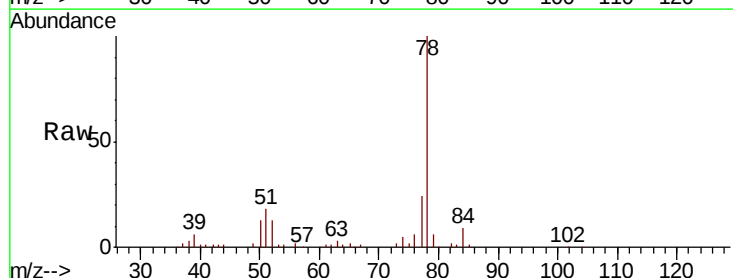
#29
 1,1,1-Trichloroethane
 Concen: 1.008 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036133.D
 Acq: 11 Dec 2019 15:10

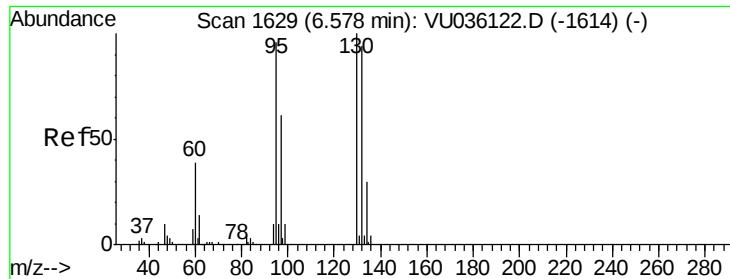
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQX1

Tot Ion: 97 Resp: 36585
 Ion Ratio Lower Upper
 97 100
 99 68.9 52.2 78.2
 61 45.0 34.7 52.1



#33
 Benzene
 Concen: 1.016 ug/L
 RT: 5.82 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VU036133.D
 Acq: 11 Dec 2019 15:10
 Tgt Ion: 78 Resp: 89451





#34

Trichloroethene

Concen: 0.145 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

Instrument :

MSVOA_U

ClientSampleId :

BFQX1

Tot Ion: 95 Resp: 3396

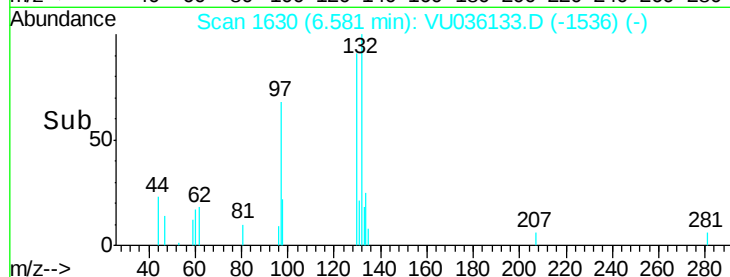
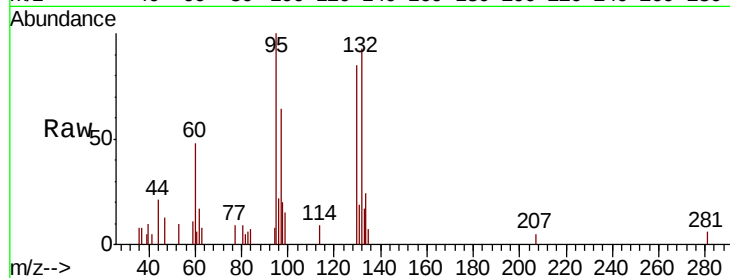
Ion Ratio Lower Upper

95 100

97 63.6 44.4 82.4

132 93.0 73.4 136.4

130 85.1 75.9 141.1

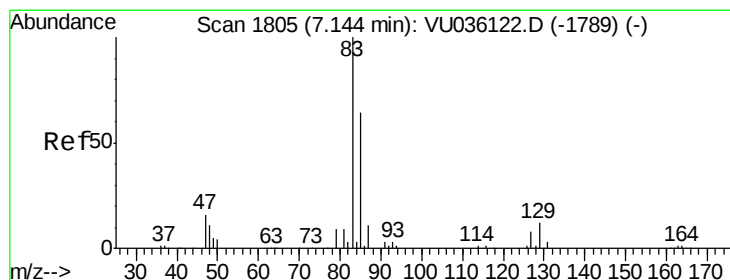
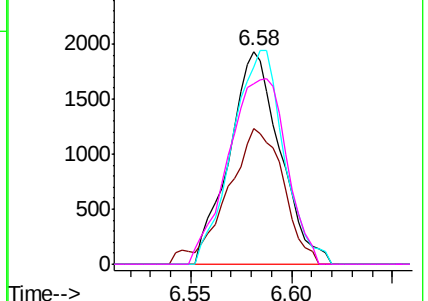


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#38

Bromodichloromethane

Concen: 0.266 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

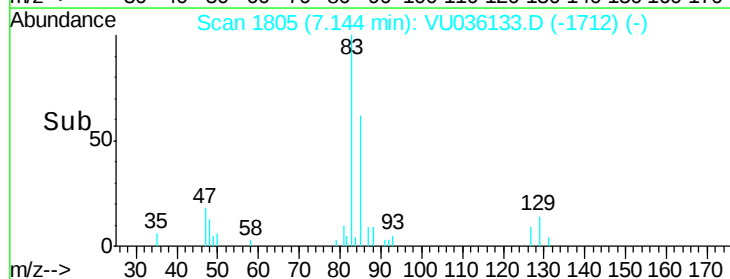
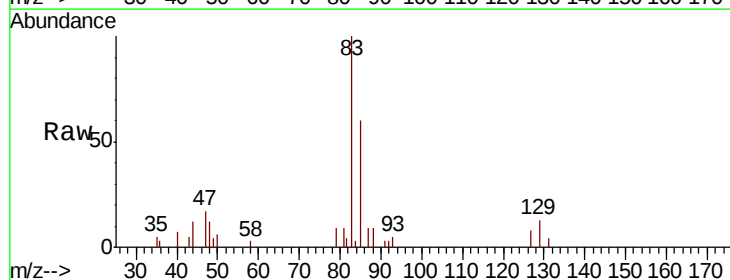
Tgt Ion: 83 Resp: 7908

Ion Ratio Lower Upper

83 100

85 59.7 45.2 84.0

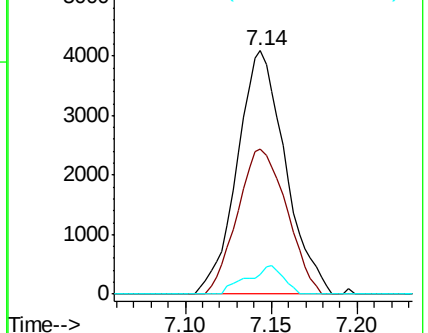
127 8.3 7.4 11.2

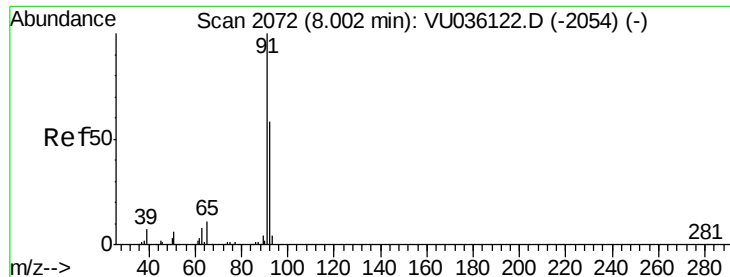


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V





#42

Toluene

Concen: 0.209 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

Instrument :

MSVOA_U

ClientSampleId :

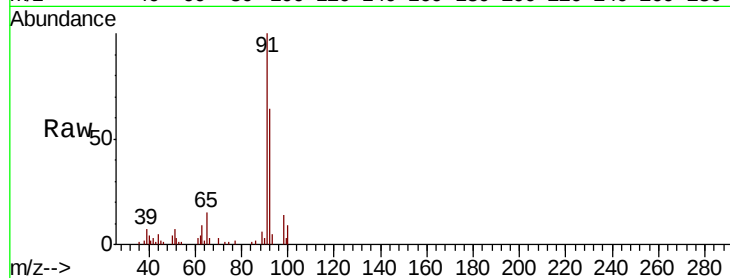
BFQX1

Tot Ion: 91 Resp: 19702

Ion Ratio Lower Upper

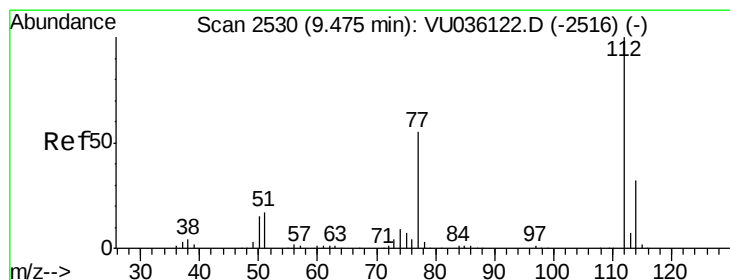
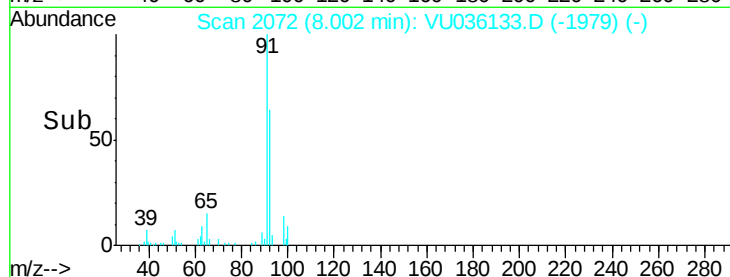
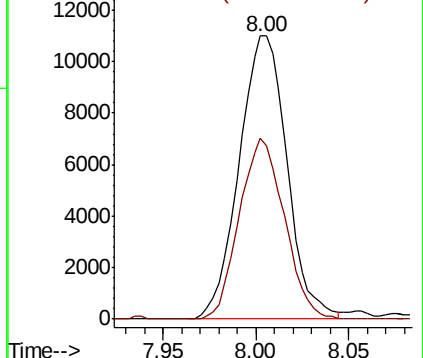
91 100

92 63.9 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU036122.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU036122.D (-2054) (-)



#51

Chlorobenzene

Concen: 5.146 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

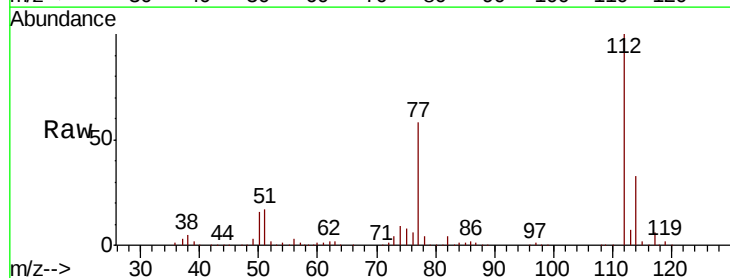
Tgt Ion: 112 Resp: 338647

Ion Ratio Lower Upper

112 100

114 32.9 22.3 41.5

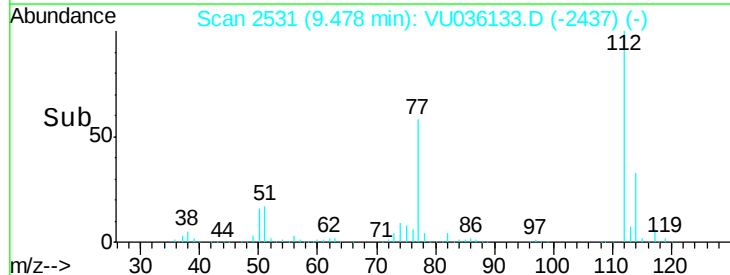
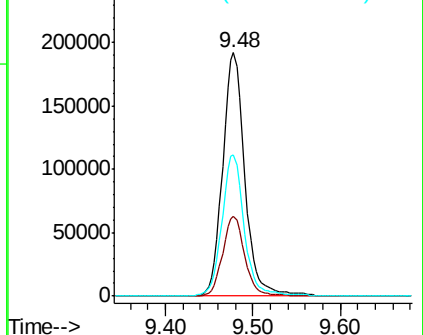
77 58.2 43.8 65.8

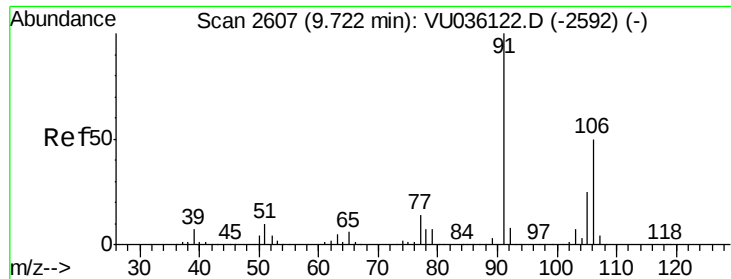


Abundance Ion 112.10 (111.80 to 112.80): VU036122.D (-2516) (-)

Ion 114.05 (113.75 to 114.75): VU036122.D (-2516) (-)

Ion 77.10 (76.80 to 77.80): VU036122.D (-2516) (-)





#53

m,p-Xylene

Concen: 0.146 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

Instrument :

MSVOA_U

ClientSampleId :

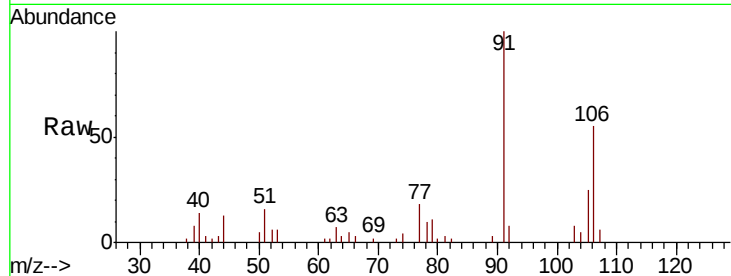
BFQX1

Tot Ion:106 Resp: 5754

Ion Ratio Lower Upper

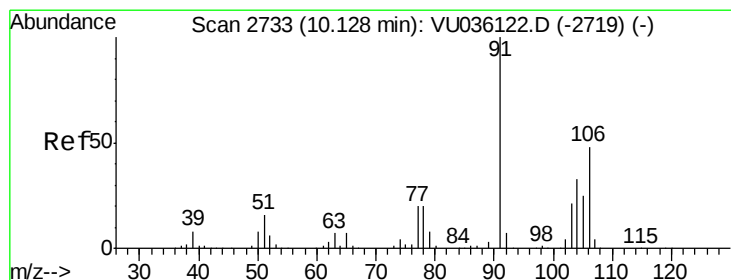
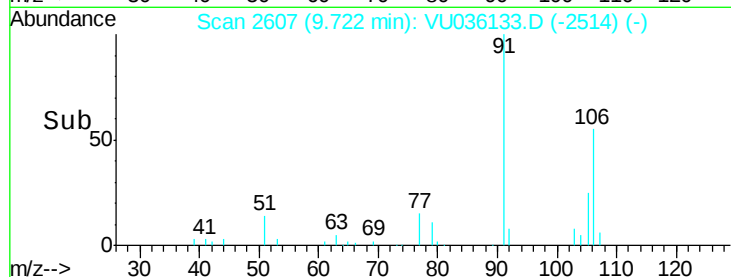
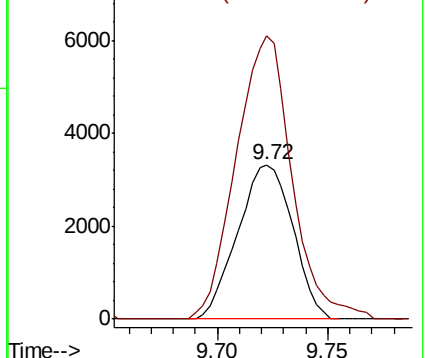
106 100

91 183.3 136.9 254.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.152 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036133.D

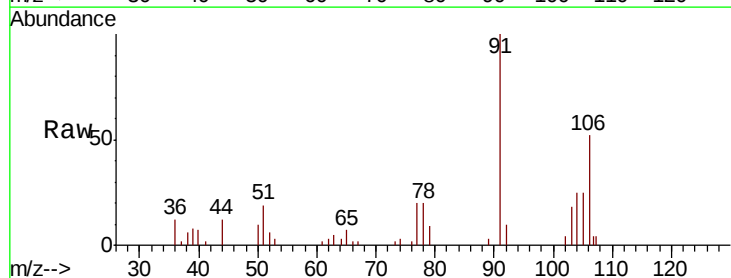
Acq: 11 Dec 2019 15:10

Tgt Ion:106 Resp: 5632

Ion Ratio Lower Upper

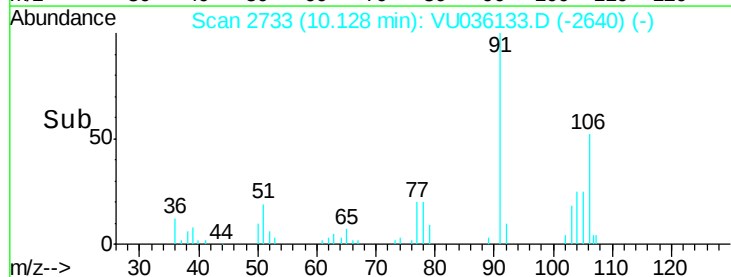
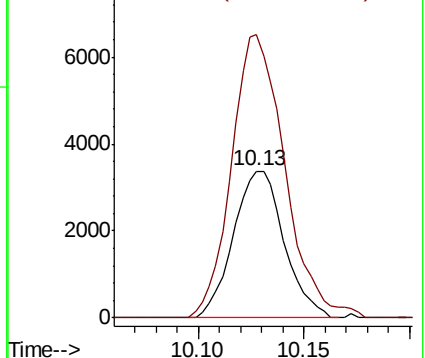
106 100

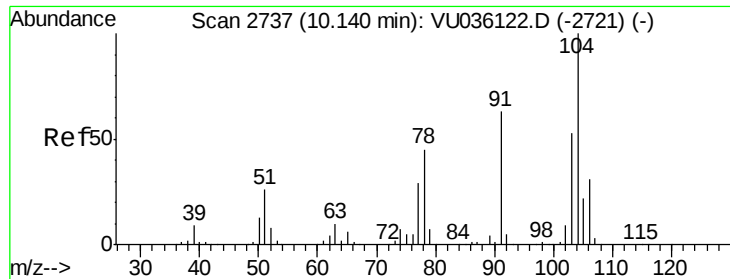
91 192.6 140.6 261.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

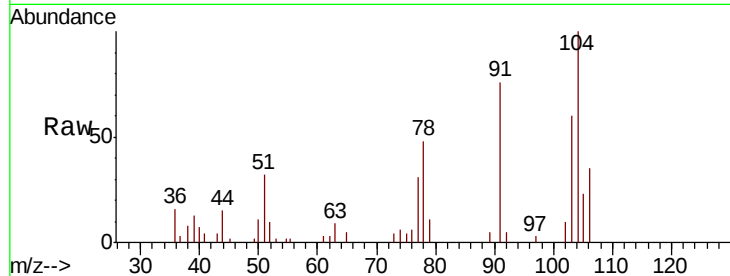




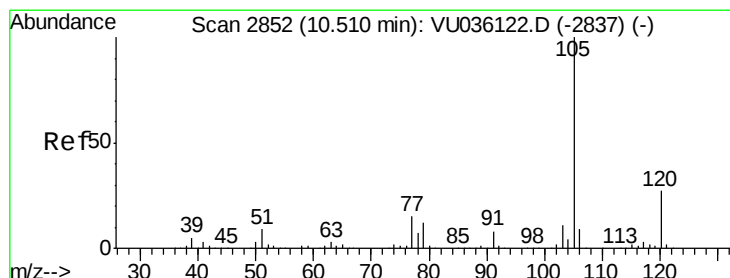
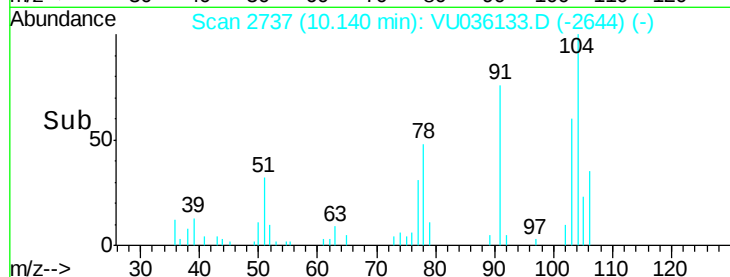
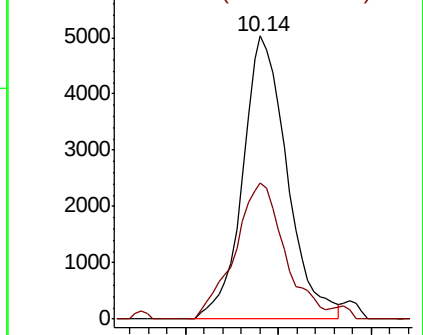
#55
Stvrene
Concen: 0.132 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036133.D
Acq: 11 Dec 2019 15:10

Instrument :
MSVOA_U
ClientSampled :
BFQX1

Tot Ion:104 Resp: 8377
Ion Ratio Lower Upper
104 100
78 48.3 30.5 56.7

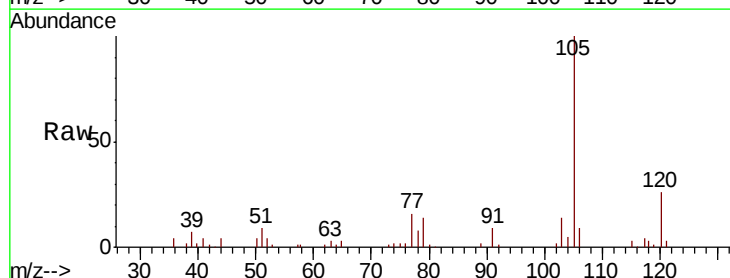


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

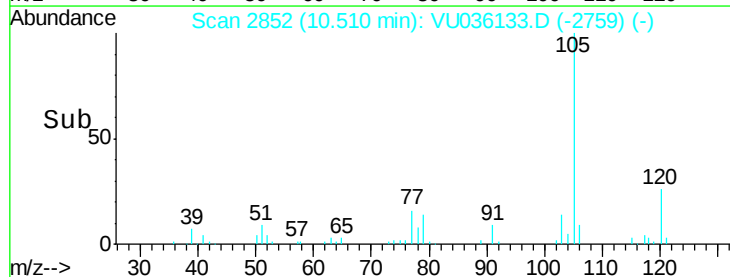
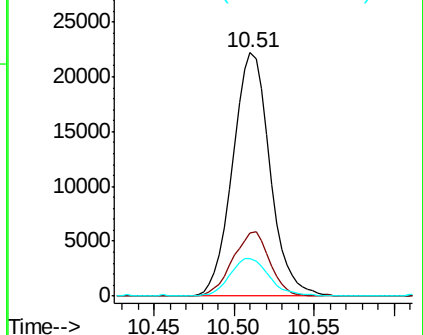


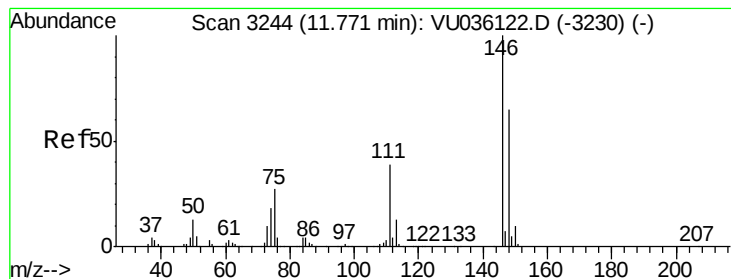
#56
Isopropylbenzene
Concen: 0.361 ug/L
RT: 10.51 min Scan# 2852
Delta R.T. 0.00 min
Lab File: VU036133.D
Acq: 11 Dec 2019 15:10

Tgt Ion:105 Resp: 35207
Ion Ratio Lower Upper
105 100
120 26.1 21.4 32.2
77 16.2 12.3 18.5



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VU0





#62

1,3-Dichlorobenzene

Concen: 0.066 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

Instrument :

MSVOA_U

ClientSampleId :

BFQX1

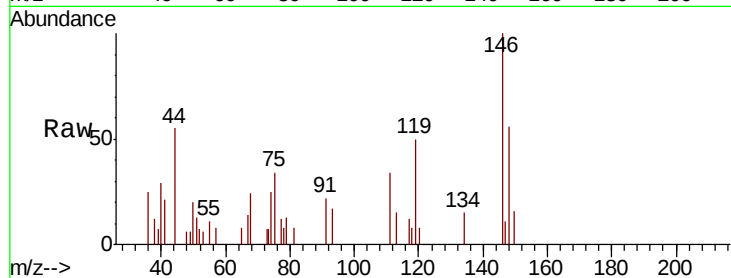
Tot Ion:146 Resp: 2682

Ion Ratio Lower Upper

146 100

111 34.0 26.0 48.2

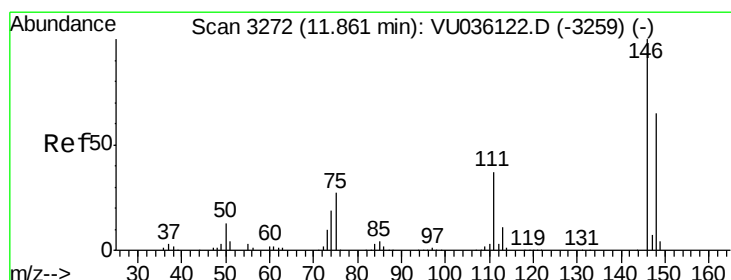
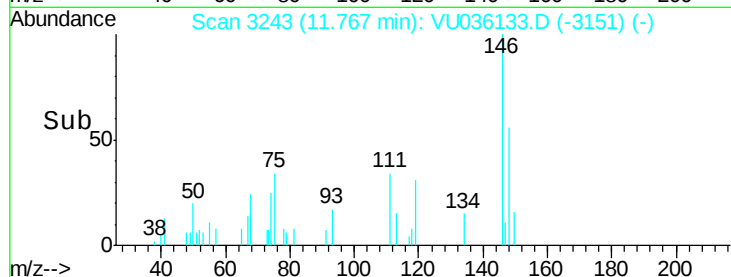
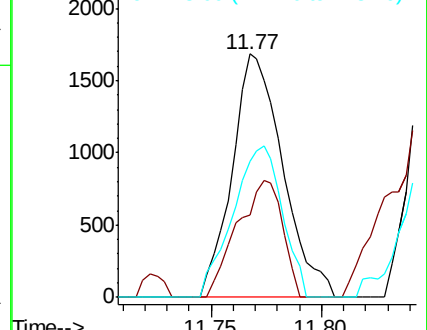
148 55.9 43.7 81.1



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.266 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036133.D

Acq: 11 Dec 2019 15:10

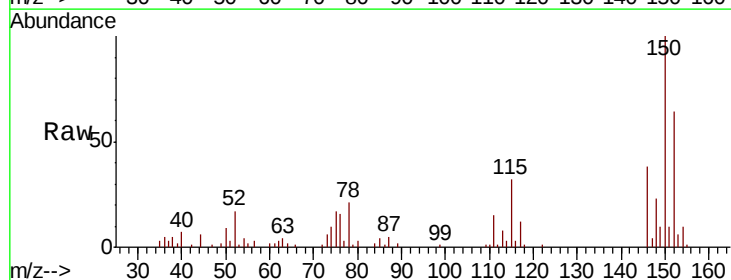
Tgt Ion:146 Resp: 10644

Ion Ratio Lower Upper

146 100

111 38.9 26.2 48.6

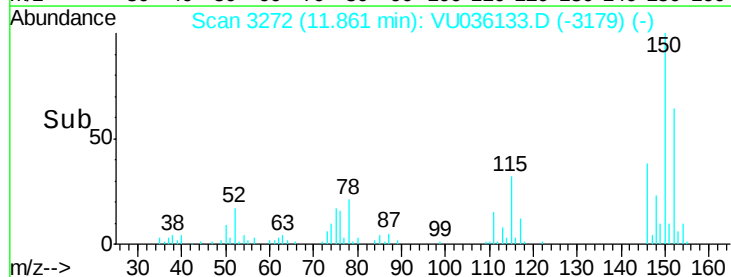
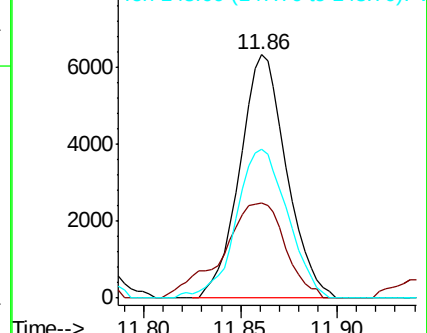
148 61.2 44.9 83.5

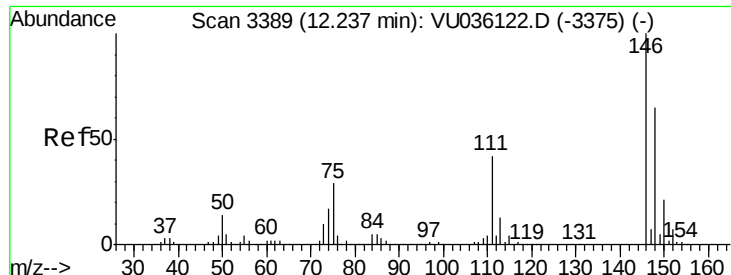


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

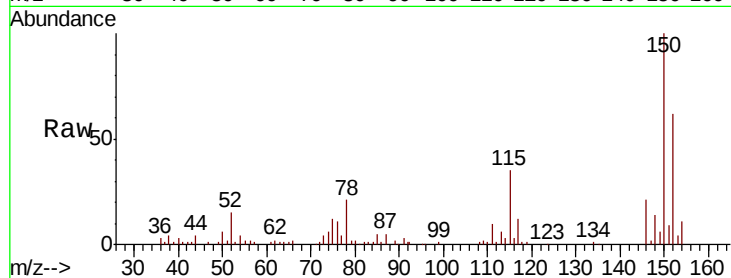




#65
 1,2-Dichlorobenzene
 Concen: 0.231 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036133.D
 Acq: 11 Dec 2019 15:10

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQX1

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.7	31.3	46.9
148	68.3	50.5	75.7



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

