

Data File : VU036132.D
Acq On : 11 Dec 2019 14:46
Operator : JC/MD
Sample : K6167-17
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFQX0

Quant Time: Dec 12 06:14:53 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	311117	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	347153	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	128124	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	130443	4.70	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.00%
7) Chloroethane-d5	1.93	69	127094	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.20%
11) 1,1-Dichloroethene-d2	2.59	63	139316	2.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.00%#
20) 2-Butanone-d5	4.70	46	301025	63.71	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.42%
24) Chloroform-d	5.11	84	216765	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.75	65	110995	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
32) Benzene-d6	5.77	84	402696	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
36) 1,2-Dichloropropane-d6	6.73	67	131944	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.60%
41) Toluene-d8	7.93	98	325452	4.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.20%
43) trans-1,3-Dichloropropene-	8.21	79	48724	4.41	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.20%
46) 2-Hexanone-d5	8.68	63	228650	57.22	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.44%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	123791	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	125130	5.08	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.60%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	21383	0.686 ug/L #	71
8) Chloroethane	1.95	64	17342	0.732 ug/L	91
13) Acetone	2.68	43	206409	34.411 ug/L	99
16) Methylene chloride	3.08	84	9662	0.307 ug/L	93
19) 1,1-Dichloroethane	3.92	63	58164	1.403 ug/L	97
21) 2-Butanone	4.78	43	14030	2.337 ug/L	96
22) cis-1,2-Dichloroethene	4.72	96	55031	2.269 ug/L	96
25) Chloroform	5.14	83	48589	1.051 ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	25435	0.650 ug/L	97
31) Carbon tetrachloride	5.37	117	3570	0.101 ug/L	84
33) Benzene	5.82	78	65159	0.687 ug/L	100
35) Methylcyclohexane	6.73	83	30832	0.912 ug/L #	19
37) 1,2-Dichloropropane	6.74	63	13873	0.583 ug/L #	87
38) Bromodichloromethane	7.14	83	6875	0.215 ug/L #	95
39) cis-1,3-Dichloropropene	7.61	75	3267	0.101 ug/L #	50
42) Toluene	8.00	91	16268	0.160 ug/L	96
48) 2-Hexanone	8.68	43	25871	2.901 ug/L #	68

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU121119\
Quantitation Report (Not Reviewed)

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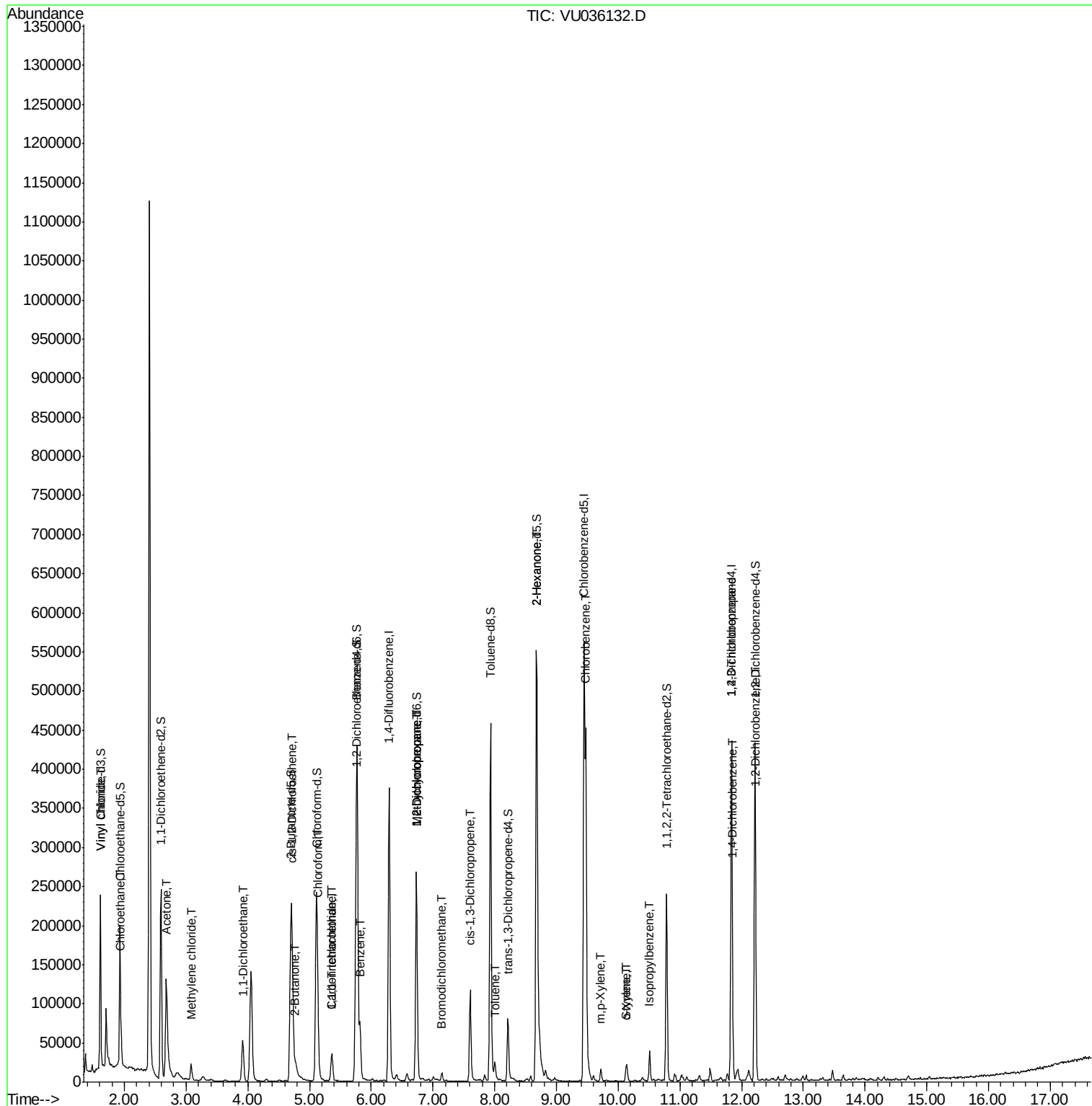
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.48	112	237087	3.343	ug/L	97
53) m,p-Xylene	9.72	106	4520	0.106	ug/L	98
54) o-Xylene	10.12	106	3819	0.096	ug/L	99
55) Styrene	10.14	104	7435	0.109	ug/L	91
56) Isopropylbenzene	10.51	105	23173	0.220	ug/L	99
59) 1,2,3-Trichloropropane	11.83	75	15775	0.927	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	7460	0.181	ug/L	90
65) 1,2-Dichlorobenzene	12.24	146	6455	0.156	ug/L #	90

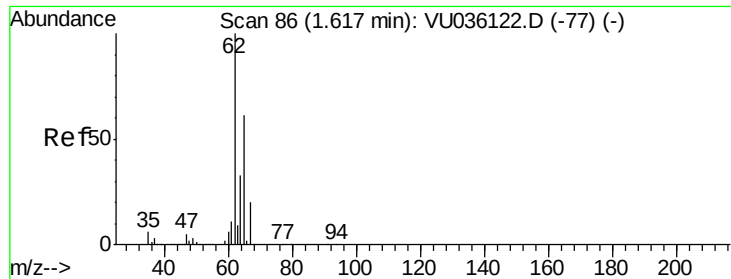
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.686 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

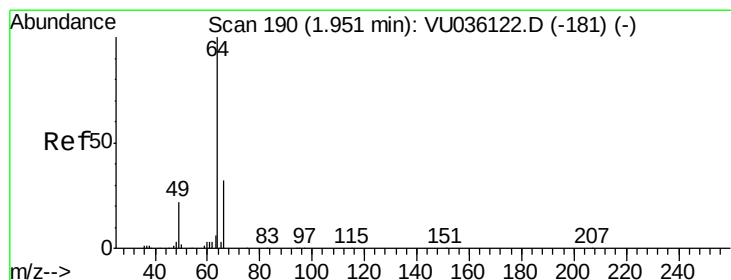
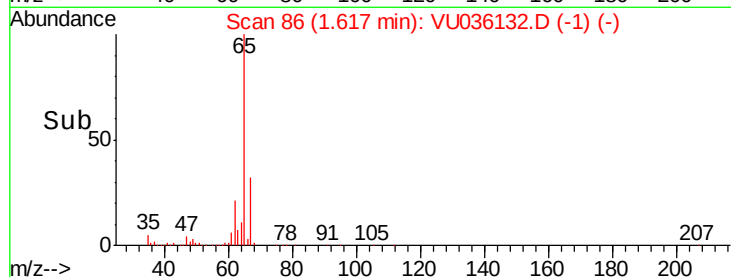
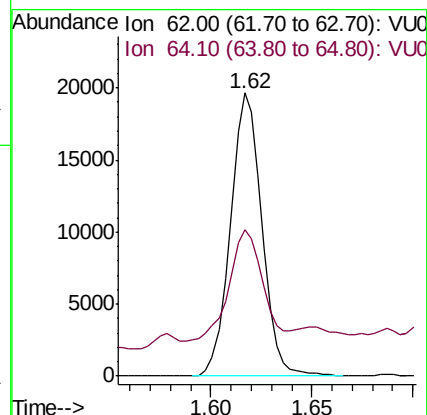
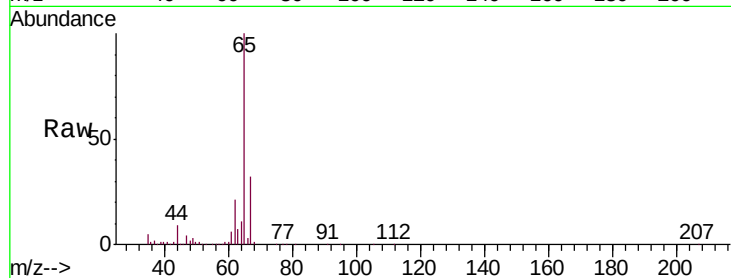
BFQX0

Tgt Ion: 62 Resp: 21383

Ion Ratio Lower Upper

62 100

64 51.7 24.3 45.1#



#8

Chloroethane

Concen: 0.732 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036132.D

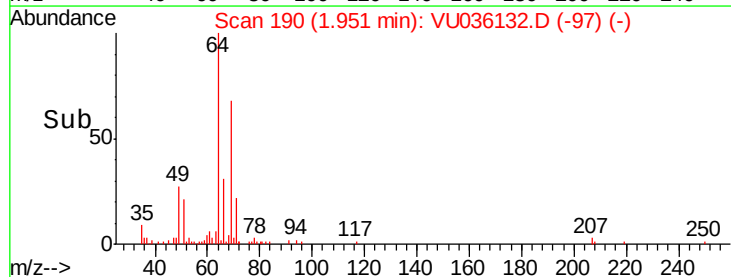
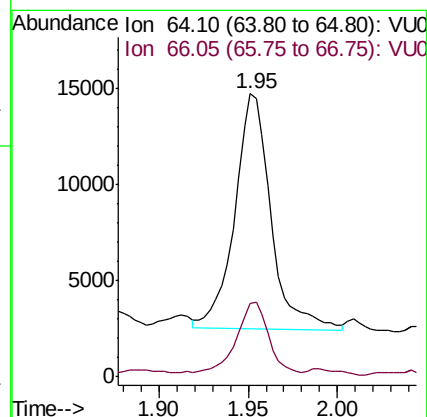
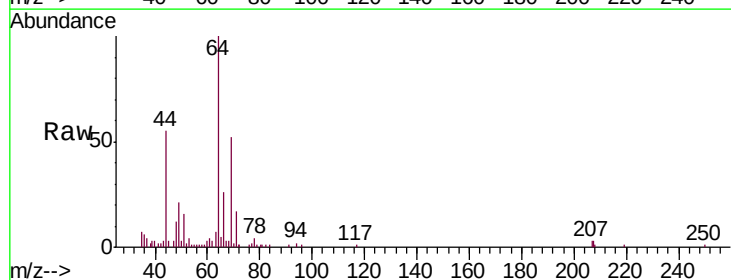
Acq: 11 Dec 2019 14:46

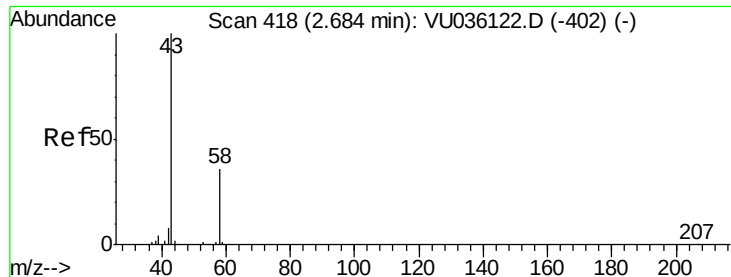
Tgt Ion: 64 Resp: 17342

Ion Ratio Lower Upper

64 100

66 25.8 21.5 39.9





#13

Acetone

Concen: 34.411 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

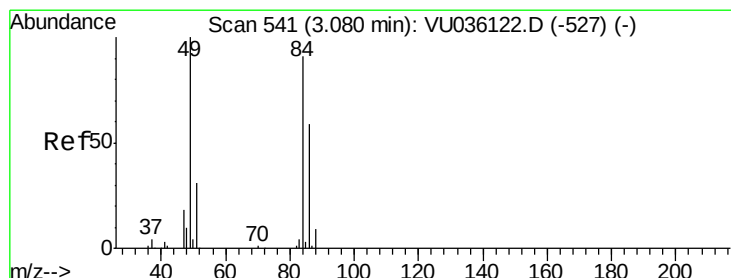
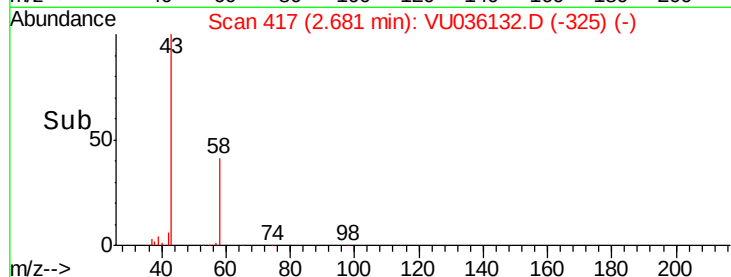
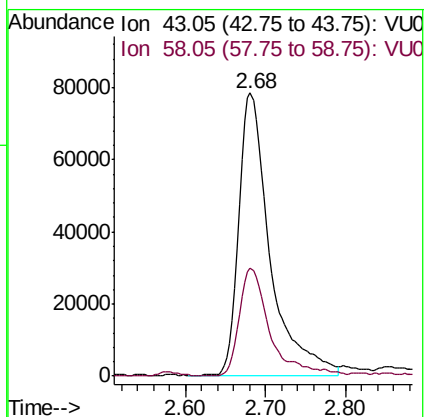
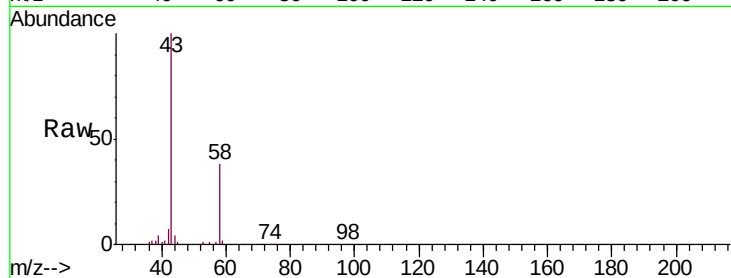
BFQX0

Tgt Ion: 43 Resp: 206409

Ion Ratio Lower Upper

43 100

58 37.8 0.0 74.2



#16

Methylene chloride

Concen: 0.307 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

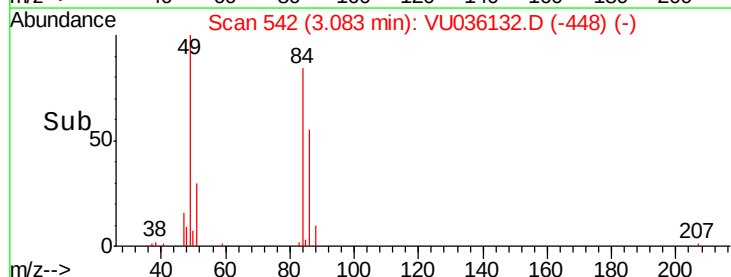
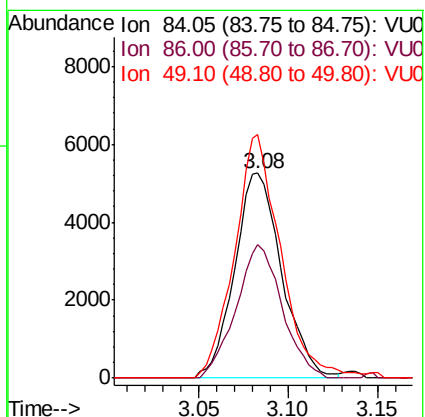
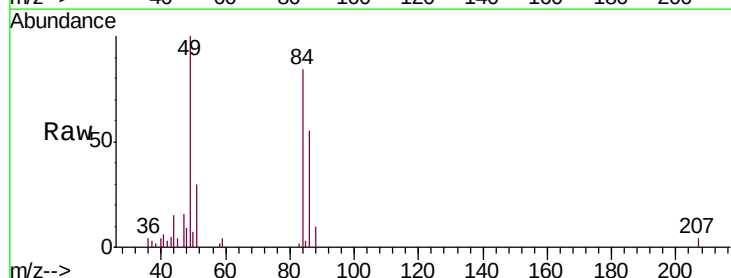
Tgt Ion: 84 Resp: 9662

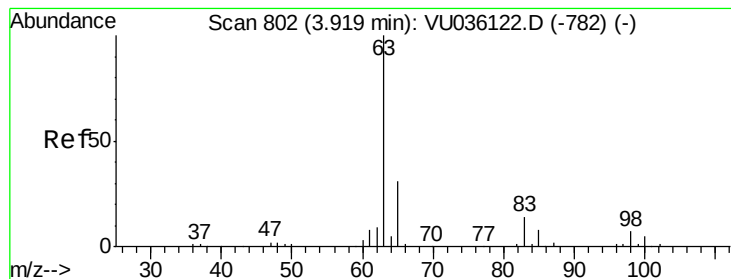
Ion Ratio Lower Upper

84 100

86 65.2 47.5 88.3

49 118.9 76.9 142.9





#19

1,1-Dichloroethane

Concen: 1.403 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

BFQX0

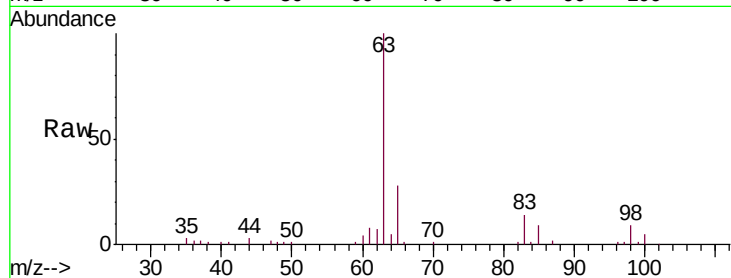
Tgt Ion: 63 Resp: 58164

Ion Ratio Lower Upper

63 100

65 28.4 21.8 40.4

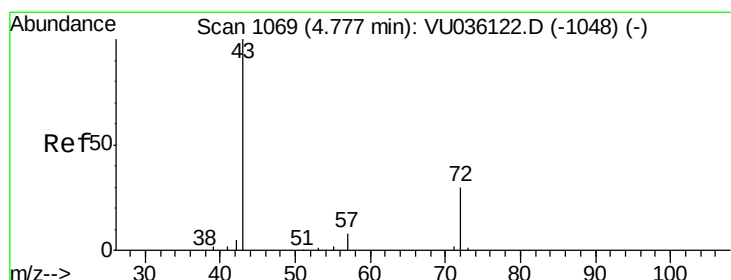
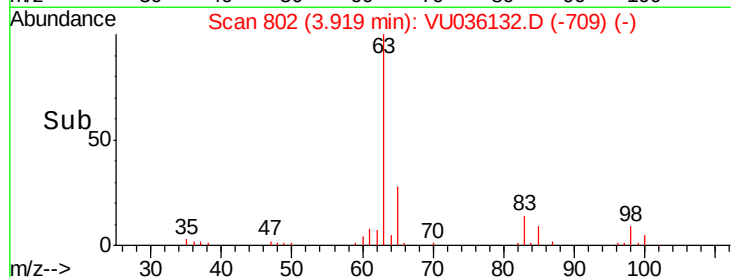
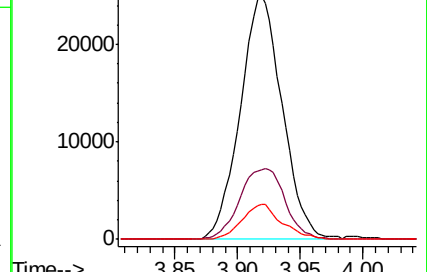
83 14.3 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU036132.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU036132.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU036132.D (-782) (-)



#21

2-Butanone

Concen: 2.337 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU036132.D

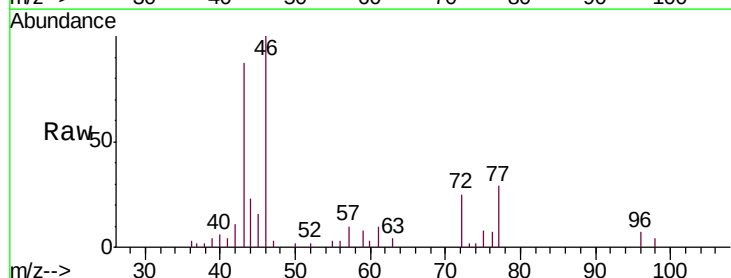
Acq: 11 Dec 2019 14:46

Tgt Ion: 43 Resp: 14030

Ion Ratio Lower Upper

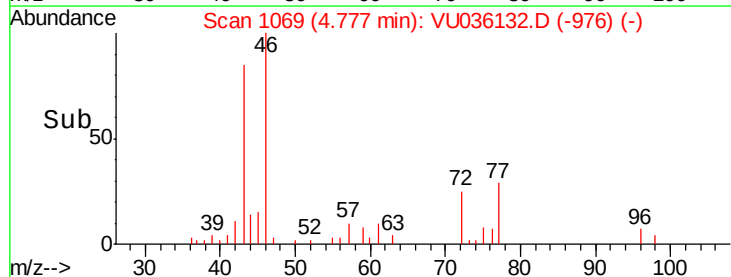
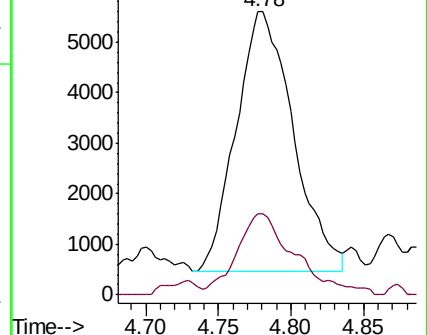
43 100

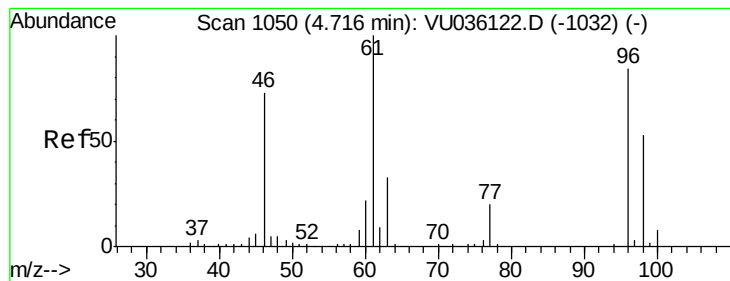
72 32.0 15.0 45.0



Abundance Ion 43.05 (42.75 to 43.75): VU036132.D (-1048) (-)

Ion 72.10 (71.80 to 72.80): VU036132.D (-1048) (-)





#22

cis-1,2-Dichloroethene

Concen: 2.269 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

BFQX0

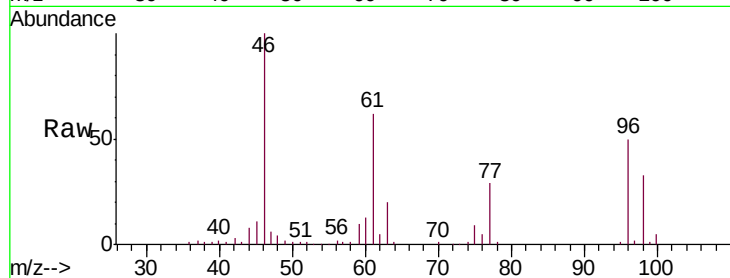
Tgt Ion: 96 Resp: 55031

Ion Ratio Lower Upper

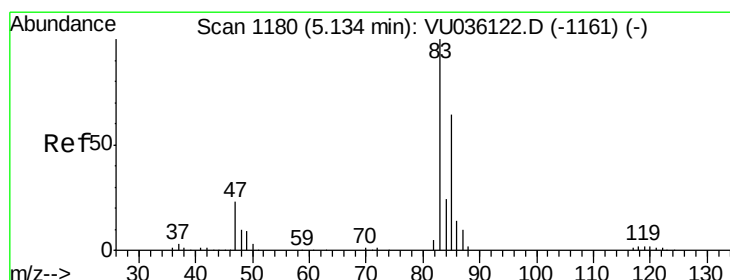
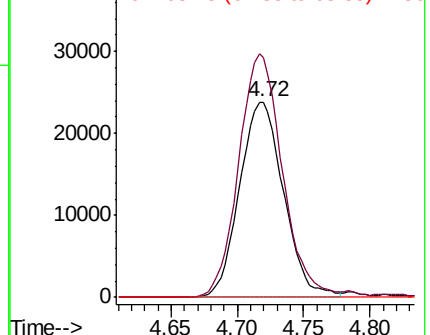
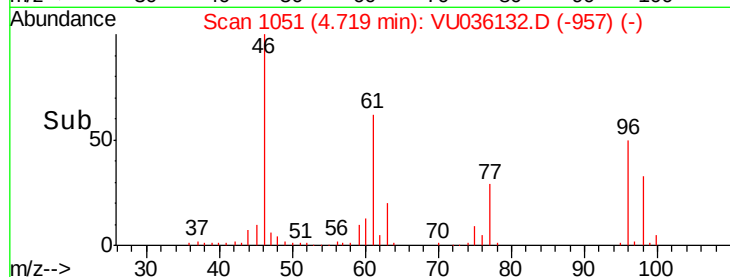
96 100

61 122.8 83.0 154.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036132.D (-957) (-)



#25

Chloroform

Concen: 1.051 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036132.D

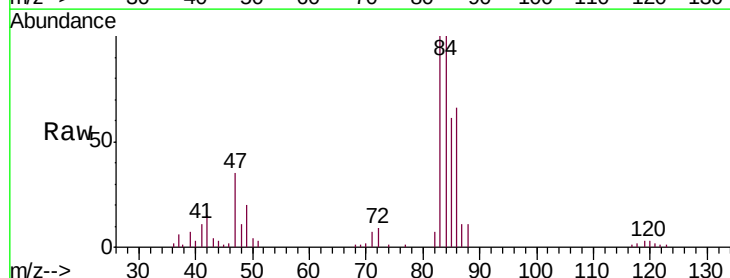
Acq: 11 Dec 2019 14:46

Tgt Ion: 83 Resp: 48589

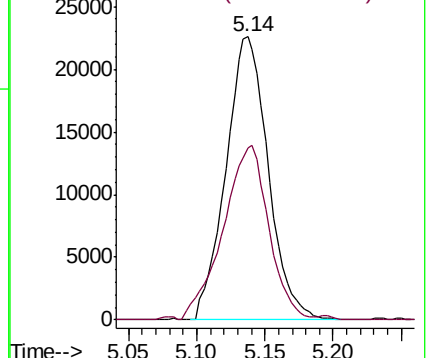
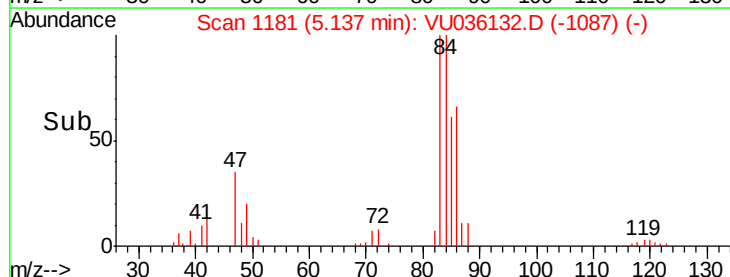
Ion Ratio Lower Upper

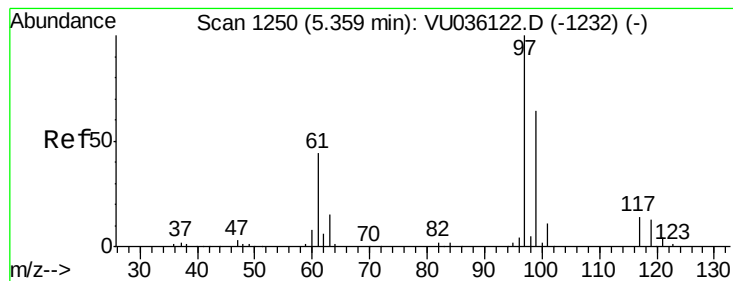
83 100

85 61.0 43.9 81.5



Abundance Ion 83.05 (82.75 to 83.75): VU036132.D (-1087) (-)





#29

1,1,1-Trichloroethane

Concen: 0.650 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

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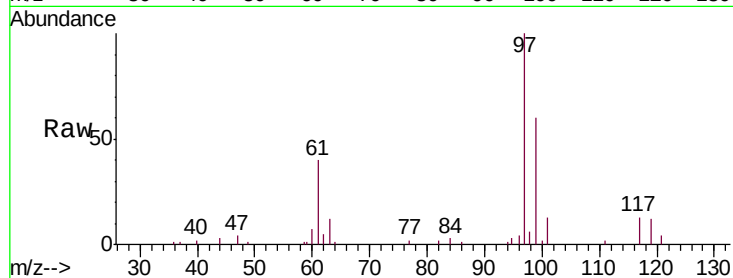
Tgt Ion: 97 Resp: 25435

Ion Ratio Lower Upper

97 100

99 63.0 52.2 78.2

61 45.3 34.7 52.1

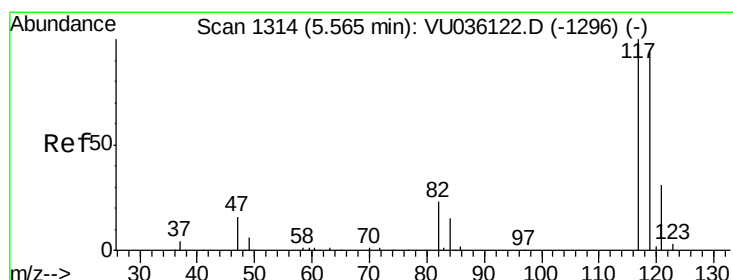
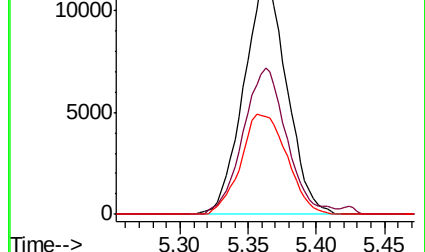
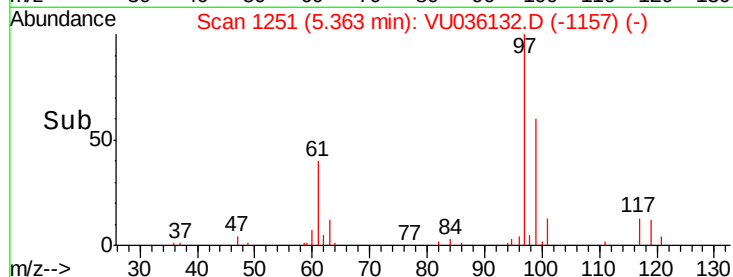


Abundance Ion 96.95 (96.65 to 97.65): VU036132.D (-1232) (-)

Ion 99.05 (98.75 to 99.75): VU036132.D (-1232) (-)

Ion 61.05 (60.75 to 61.75): VU036132.D (-1232) (-)

Time-->



#31

Carbon tetrachloride

Concen: 0.101 ug/L

RT: 5.37 min Scan# 1252

Delta R.T. -0.20 min

Lab File: VU036132.D

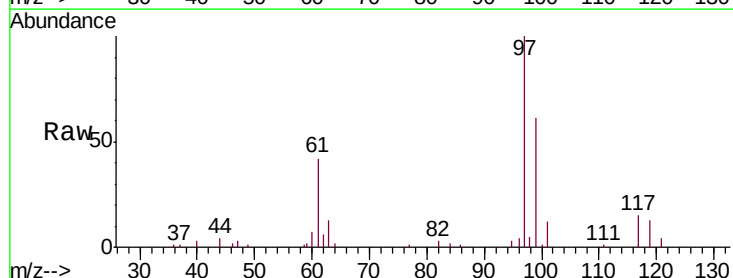
Acq: 11 Dec 2019 14:46

Tgt Ion: 117 Resp: 3570

Ion Ratio Lower Upper

117 100

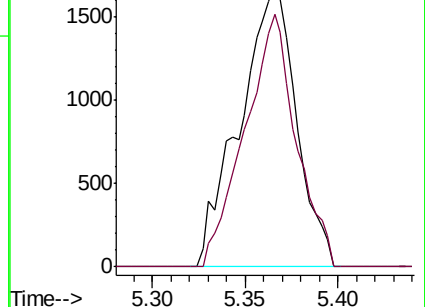
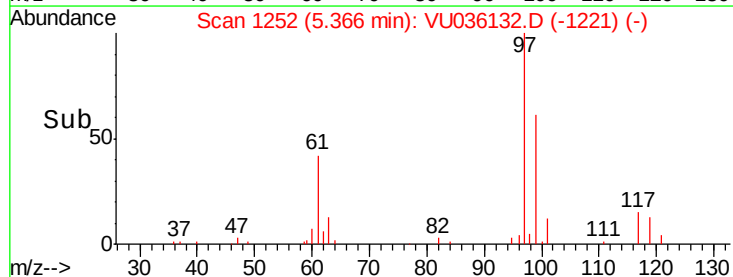
119 81.7 78.2 117.4

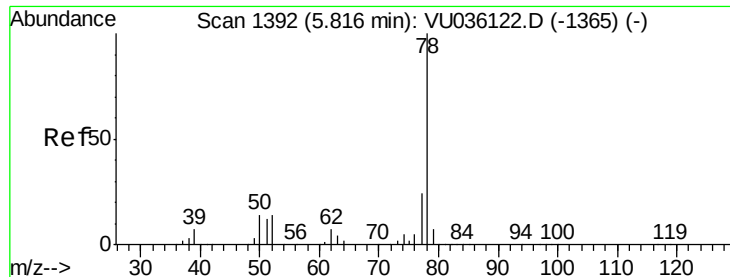


Abundance Ion 116.90 (116.60 to 117.60): VU036132.D (-1221) (-)

Ion 118.90 (118.60 to 119.60): VU036132.D (-1221) (-)

Time-->





#33

Benzene

Concen: 0.687 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

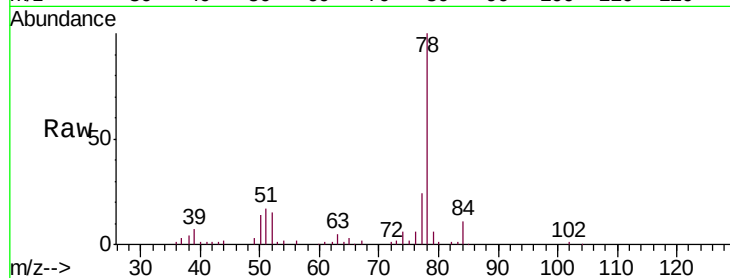
Instrument :

MSVOA_U

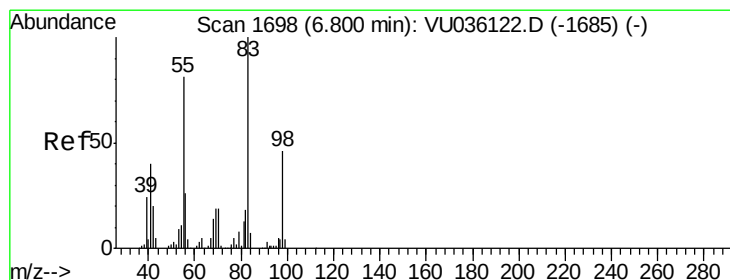
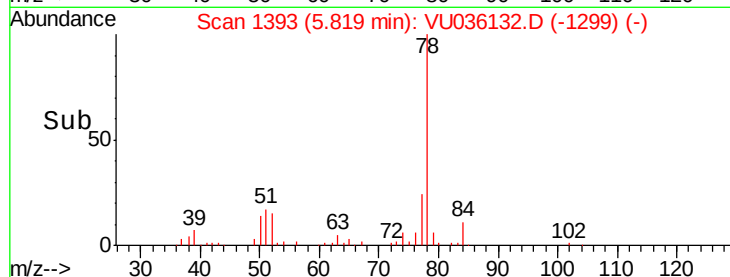
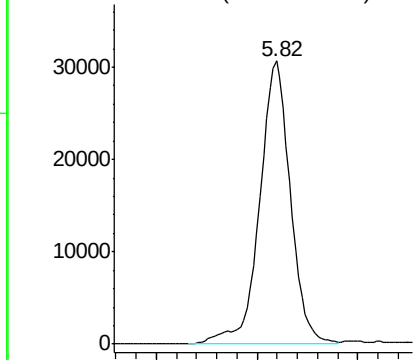
ClientSampleId :

BFQX0

Tgt Ion: 78 Resp: 65159



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.912 ug/L

RT: 6.73 min Scan# 1677

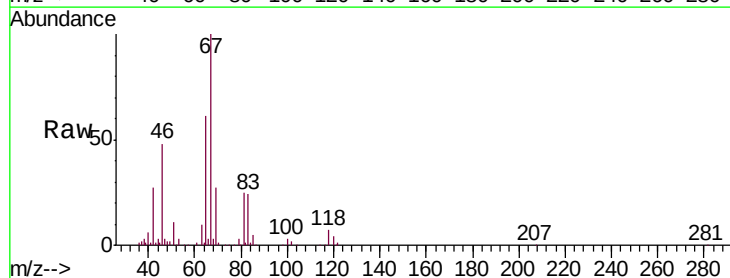
Delta R.T. -0.07 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Tgt Ion: 83 Resp: 30832

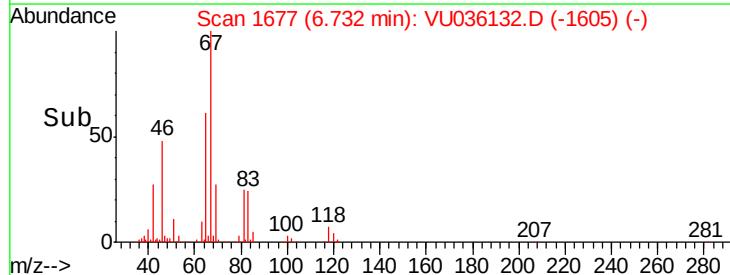
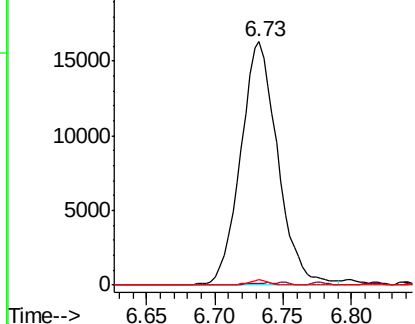
Ion	Ratio	Lower	Upper
83	100		
55	0.4	62.1	93.1#
98	1.1	37.0	55.4#

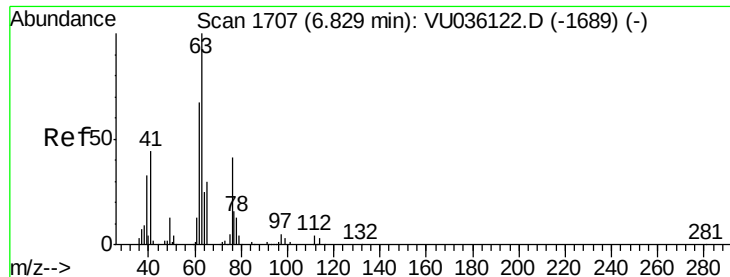


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.583 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.09 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

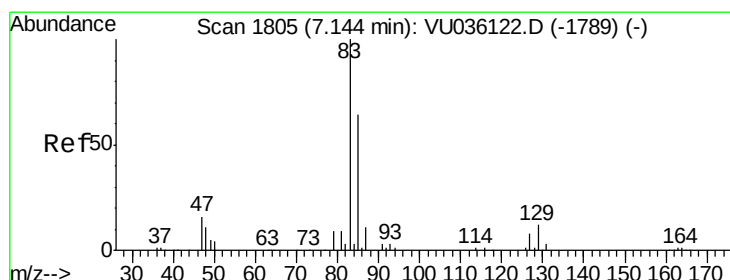
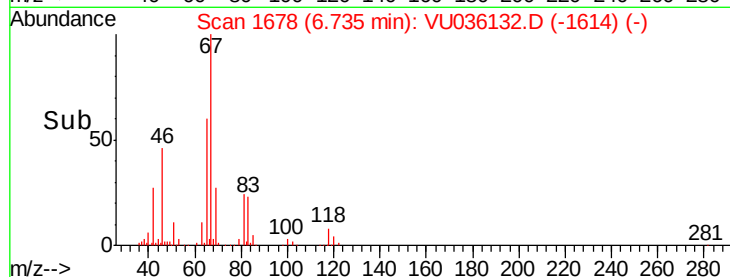
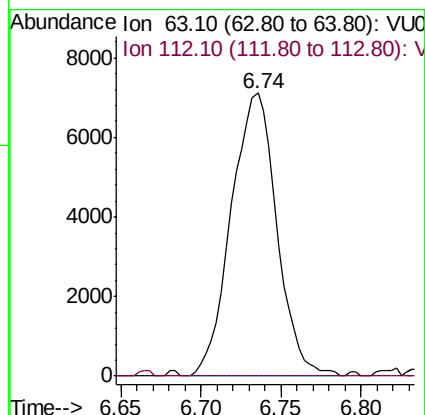
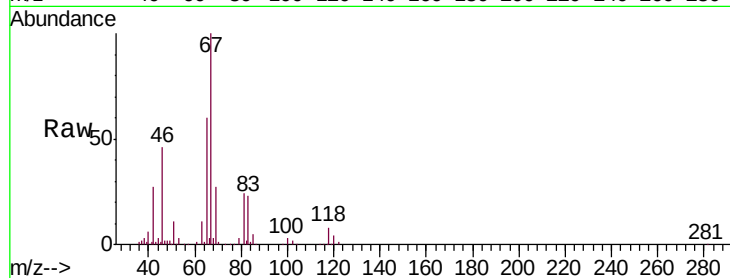
BFQX0

Tgt Ion: 63 Resp: 13873

Ion Ratio Lower Upper

63 100

112 0.5 3.8 5.8#



#38

Bromodichloromethane

Concen: 0.215 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

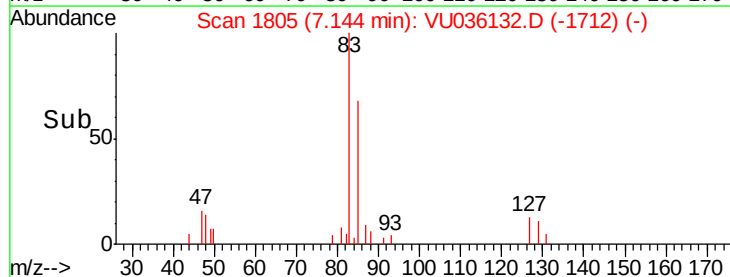
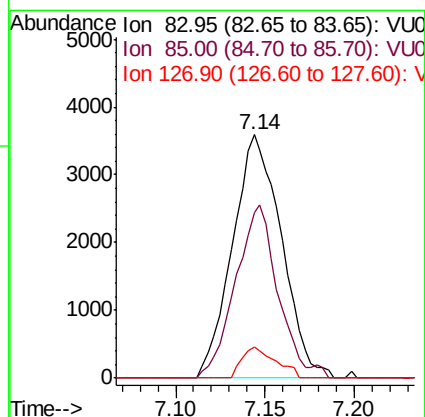
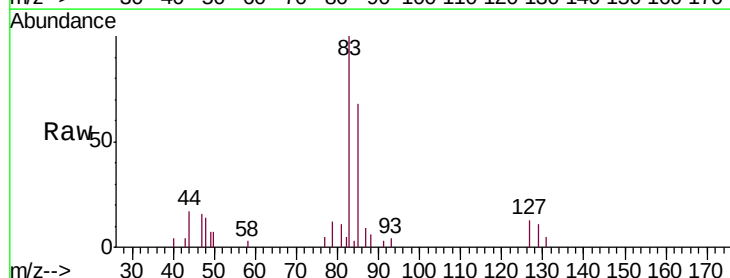
Tgt Ion: 83 Resp: 6875

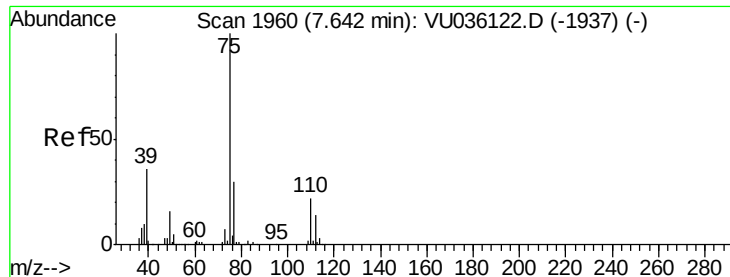
Ion Ratio Lower Upper

83 100

85 67.9 45.2 84.0

127 12.7 7.4 11.2#

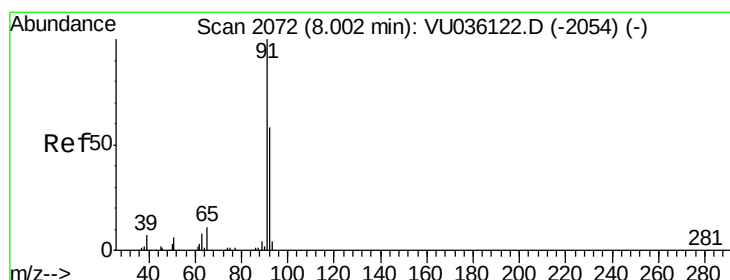
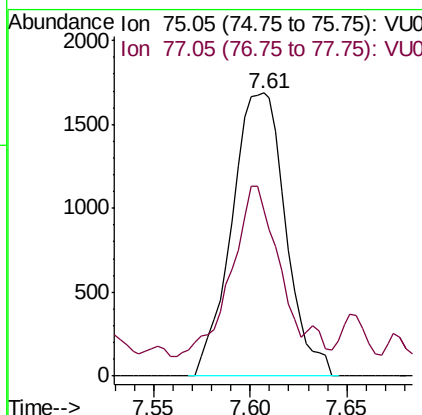
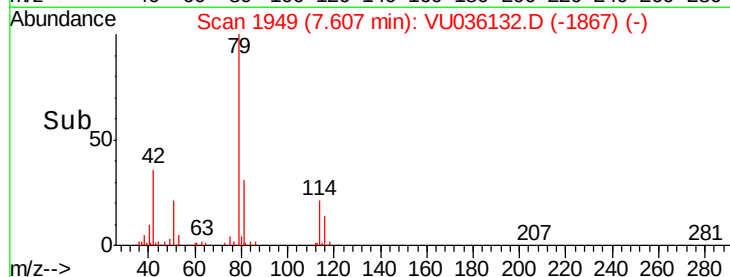
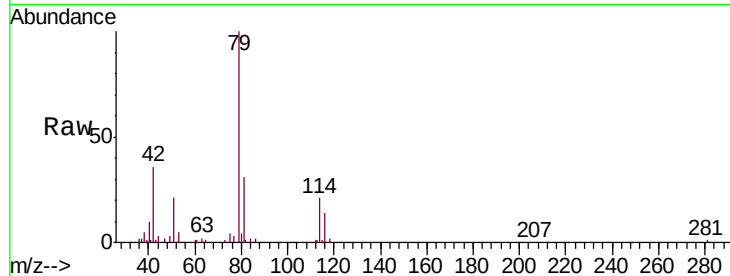




#39
 cis-1,3-Dichloropropene
 Concen: 0.101 ug/L
 RT: 7.61 min Scan# 1949
 Delta R.T. -0.04 min
 Lab File: VU036132.D
 Acq: 11 Dec 2019 14:46

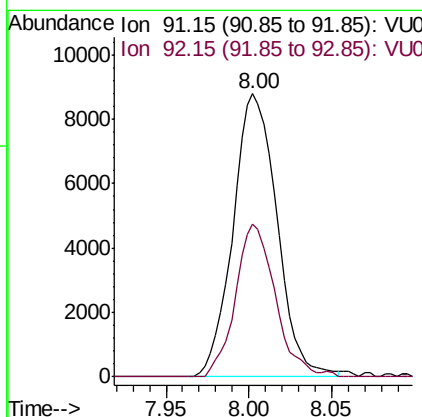
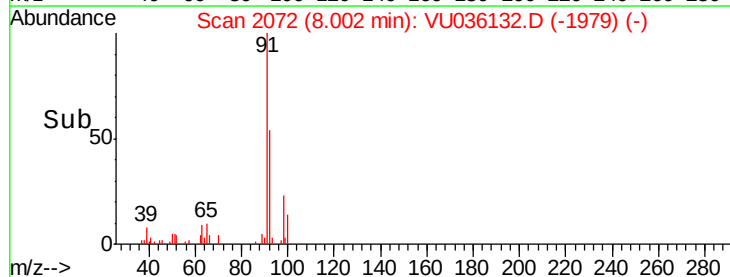
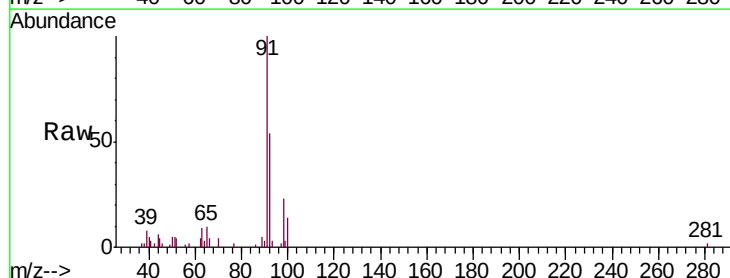
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQX0

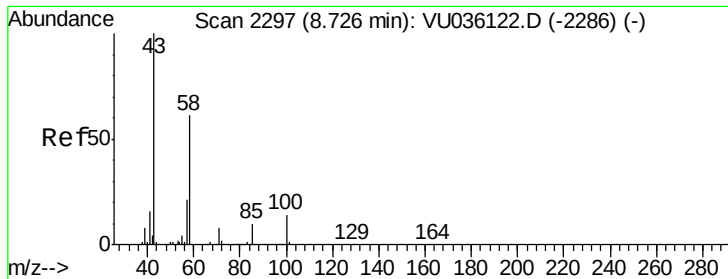
Tgt Ion: 75 Resp: 3267
 Ion Ratio Lower Upper
 75 100
 77 58.3 21.7 40.3#



#42
 Toluene
 Concen: 0.160 ug/L
 RT: 8.00 min Scan# 2072
 Delta R.T. 0.00 min
 Lab File: VU036132.D
 Acq: 11 Dec 2019 14:46

Tgt Ion: 91 Resp: 16268
 Ion Ratio Lower Upper
 91 100
 92 54.2 40.0 74.4

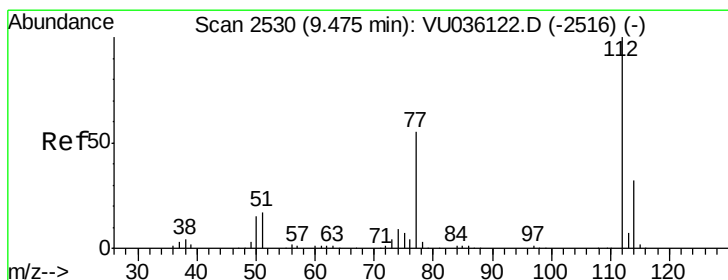
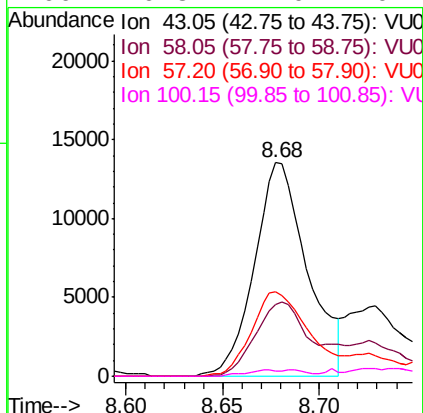
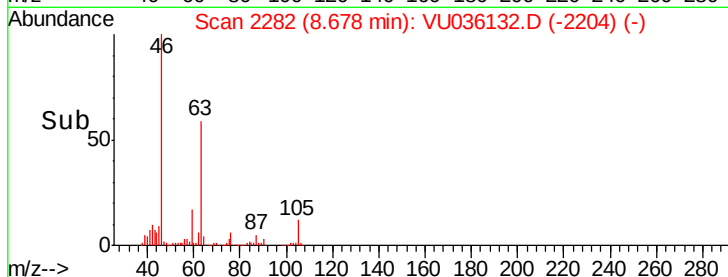
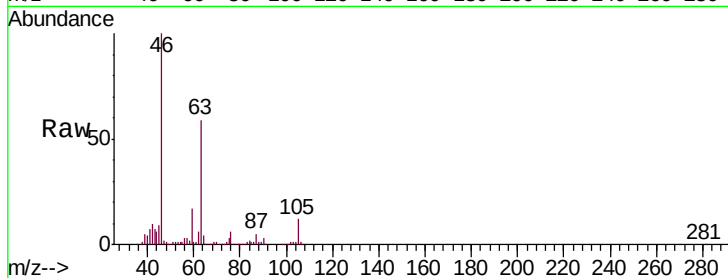




#48
2-Hexanone
Concen: 2.901 ug/L
RT: 8.68 min Scan# 2282
Delta R.T. -0.05 min
Lab File: VU036132.D
Acq: 11 Dec 2019 14:46

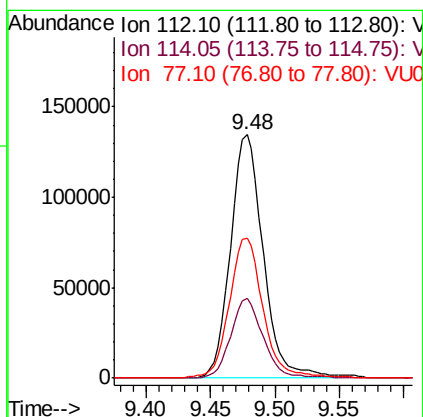
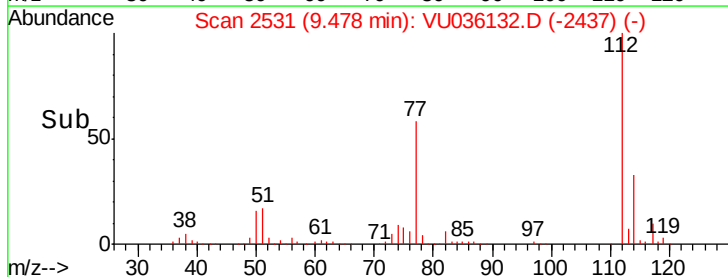
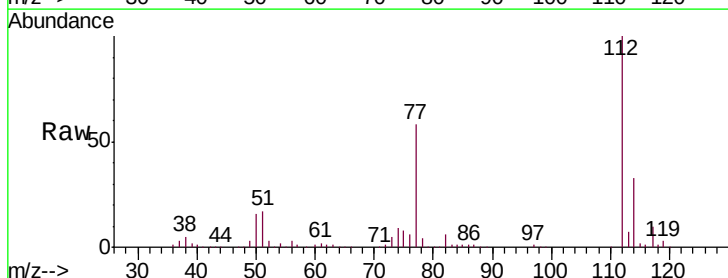
Instrument :
MSVOA_U
ClientSampleId :
BFQX0

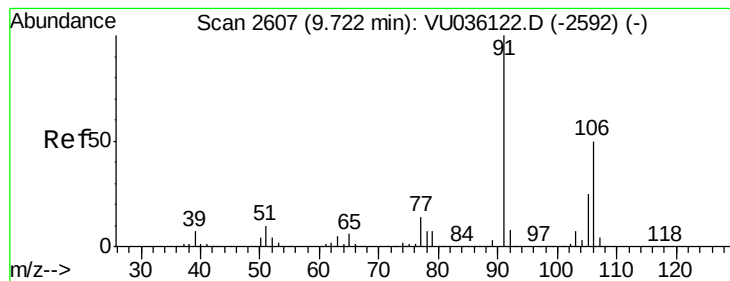
Tgt Ion:	43	Resp:	25871
Ion	Ratio	Lower	Upper
43	100		
58	38.6	46.9	70.3#
57	43.0	16.4	24.6#
100	0.8	11.0	16.4#



#51
Chlorobenzene
Concen: 3.343 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU036132.D
Acq: 11 Dec 2019 14:46

Tgt Ion:	112	Resp:	237087
Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.3	41.5
77	57.6	43.8	65.8





#53

m,p-Xylene

Concen: 0.106 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

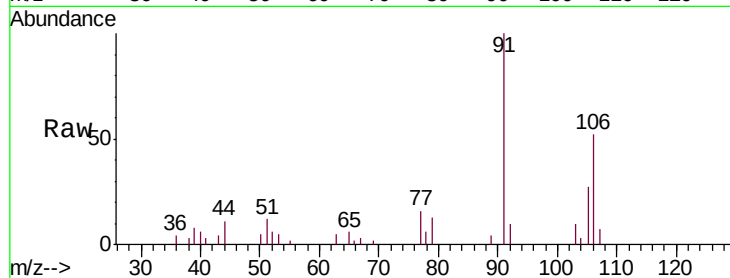
BFQX0

Tgt Ion:106 Resp: 4520

Ion Ratio Lower Upper

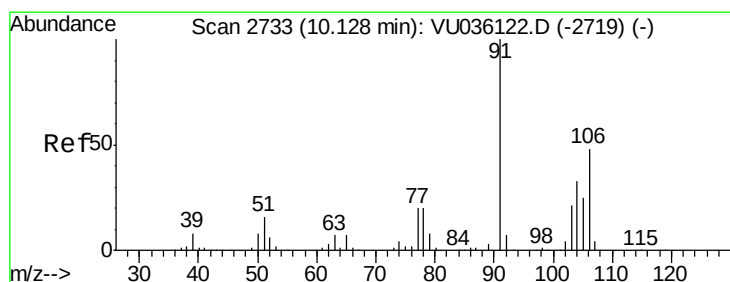
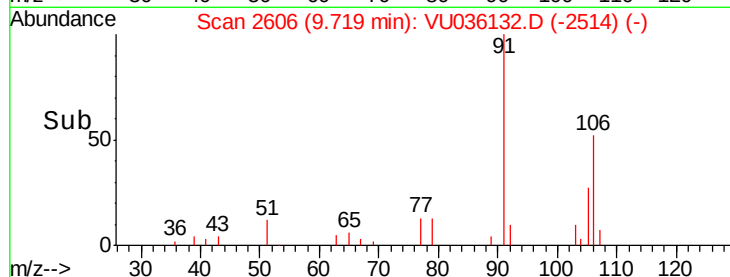
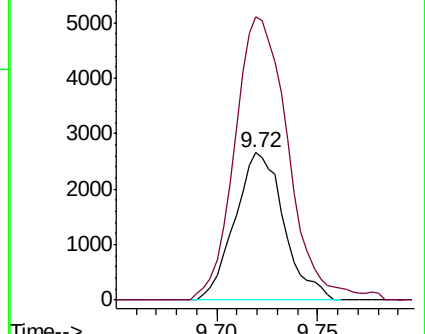
106 100

91 192.3 136.9 254.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.096 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036132.D

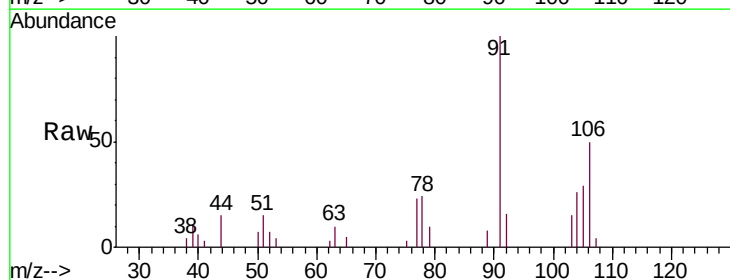
Acq: 11 Dec 2019 14:46

Tgt Ion:106 Resp: 3819

Ion Ratio Lower Upper

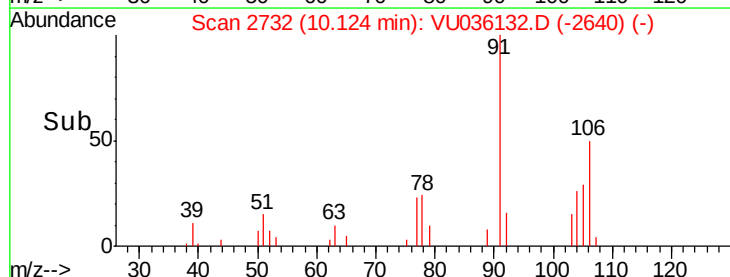
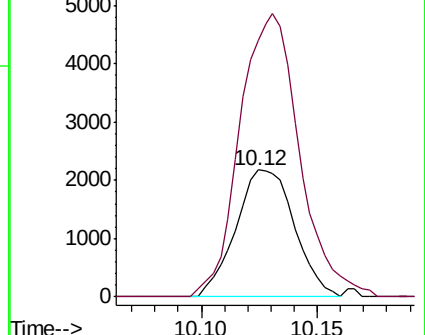
106 100

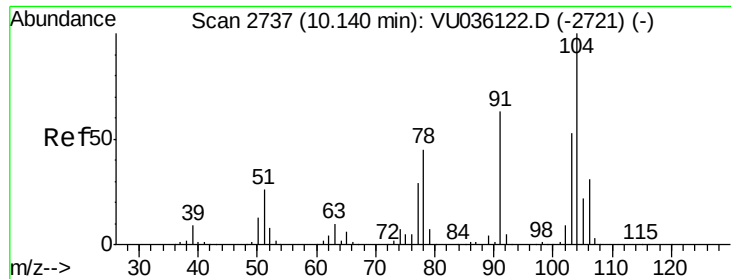
91 201.8 140.6 261.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#55

Styrene

Concen: 0.109 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

Instrument :

MSVOA_U

ClientSampled :

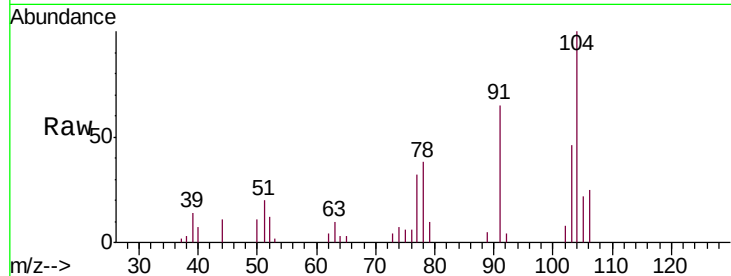
BFQX0

Tgt Ion:104 Resp: 7435

Ion Ratio Lower Upper

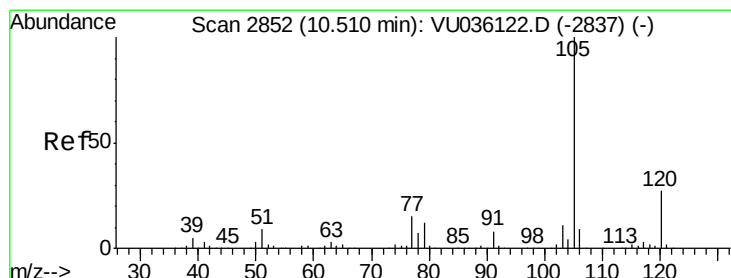
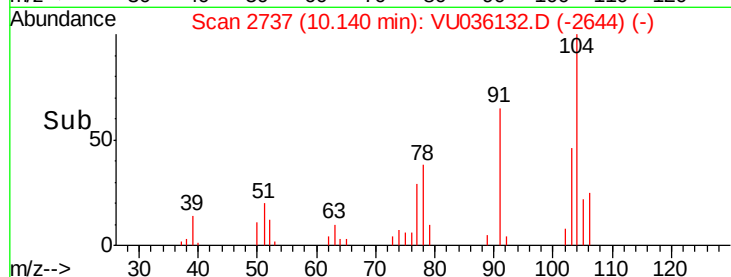
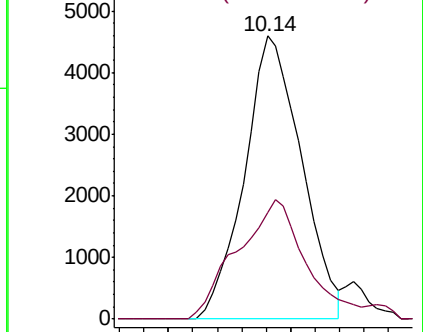
104 100

78 37.7 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: 0.220 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036132.D

Acq: 11 Dec 2019 14:46

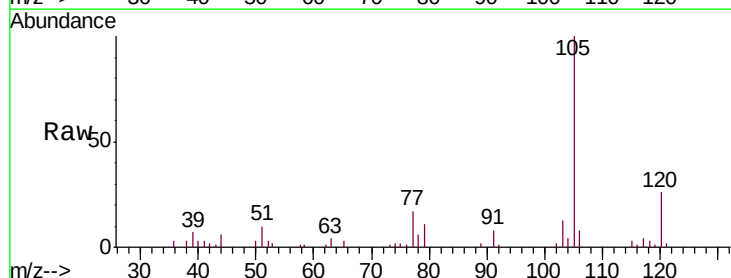
Tgt Ion:105 Resp: 23173

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

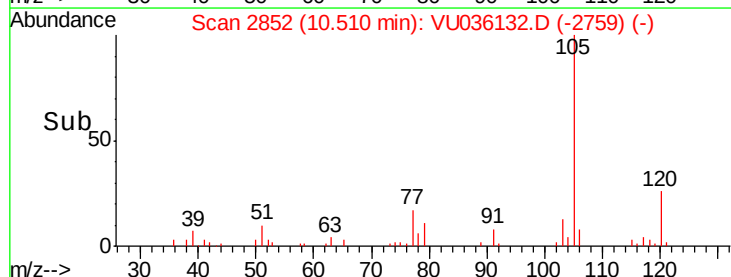
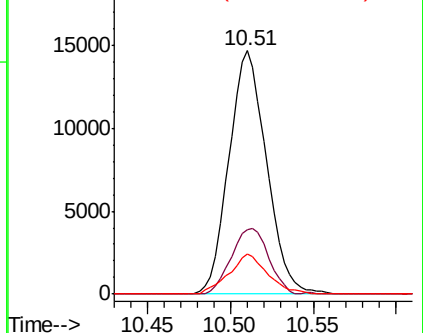
77 16.9 12.3 18.5

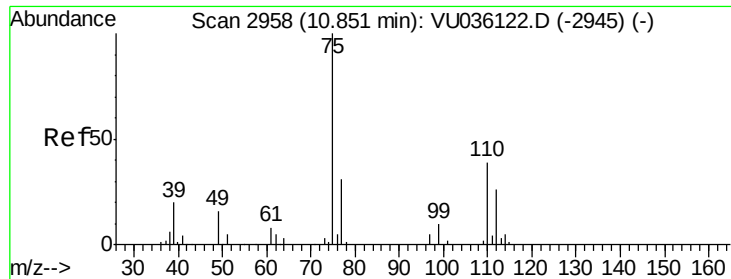


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0

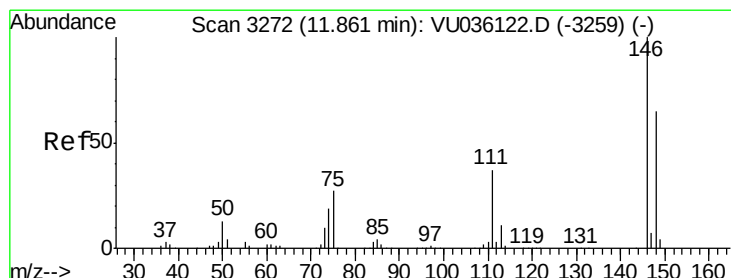
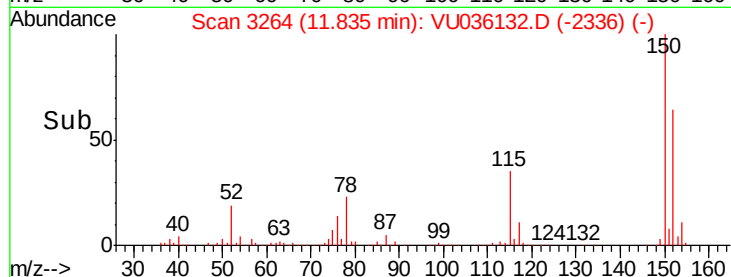
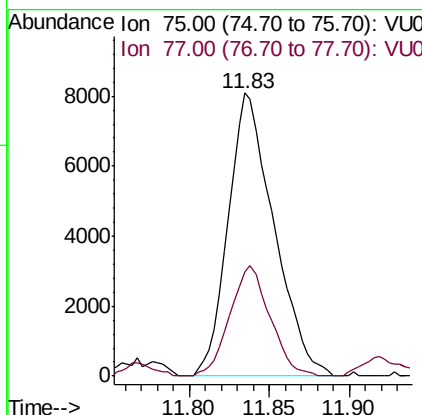
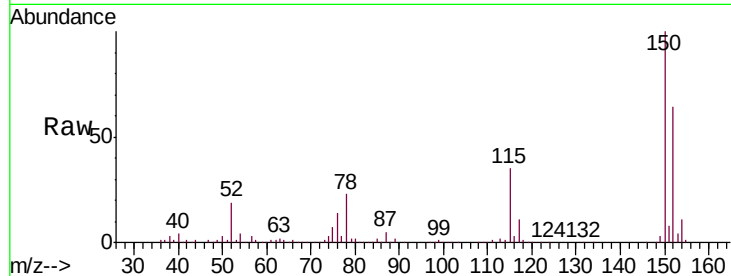




#59
 1,2,3-Trichloropropane
 Concen: 0.927 ug/L
 RT: 11.83 min Scan# 3264
 Delta R.T. 0.98 min
 Lab File: VU036132.D
 Acq: 11 Dec 2019 14:46

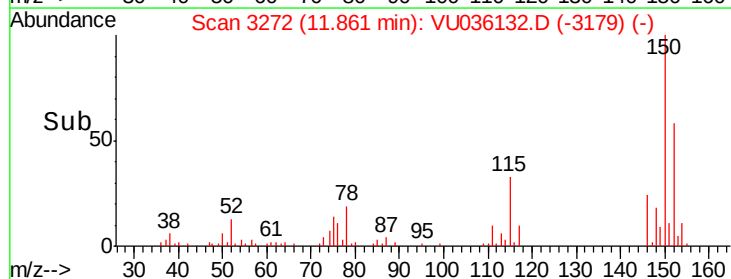
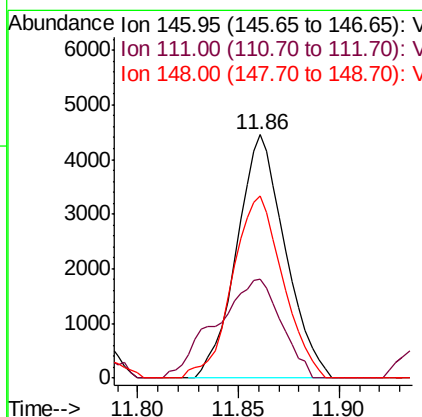
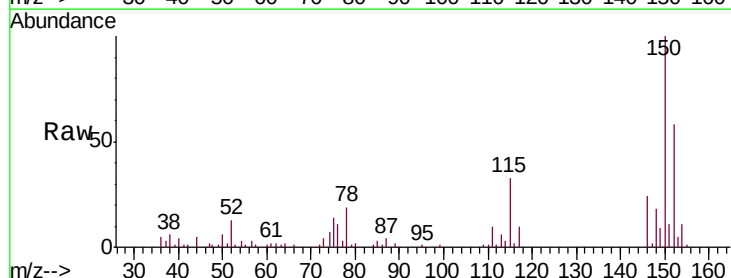
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQX0

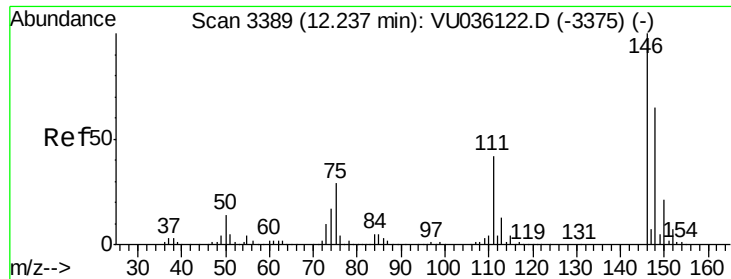
Tgt Ion: 75 Resp: 15775
 Ion Ratio Lower Upper
 75 100
 77 34.3 26.7 40.1



#63
 1,4-Dichlorobenzene
 Concen: 0.181 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036132.D
 Acq: 11 Dec 2019 14:46

Tgt Ion: 146 Resp: 7460
 Ion Ratio Lower Upper
 146 100
 111 40.8 26.2 48.6
 148 74.6 44.9 83.5

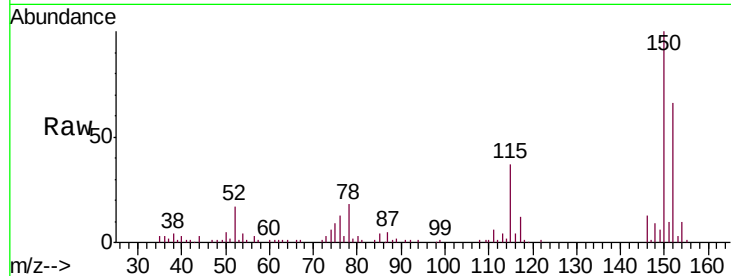




#65
 1,2-Dichlorobenzene
 Concen: 0.156 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036132.D
 Acq: 11 Dec 2019 14:46

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQX0

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.7	31.3	46.9#
148	68.9	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

