

Data File : VU036185.D
Acq On : 13 Dec 2019 06:30
Operator : JC/MD
Sample : K6240-15
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFQW6

Quant Time: Dec 13 08:03:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 13 04:38:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	253185	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	275762	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	110208	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	105403	4.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.20%
7) Chloroethane-d5	1.93	69	103444	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.59	63	111394	3.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.80%
20) 2-Butanone-d5	4.69	46	218166	52.93	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.86%
24) Chloroform-d	5.11	84	182865	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.75	65	91955	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.77	84	329479	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	6.73	67	106738	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.93	98	268858	3.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.00%
43) trans-1,3-Dichloropropene-	8.21	79	33087	3.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.00%
46) 2-Hexanone-d5	8.67	63	159456	45.23	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.46%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	96133	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	108628	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	52315	1.547 ug/L	97
8) Chloroethane	1.95	64	22433	1.078 ug/L	98
13) Acetone	2.68	43	77841	21.707 ug/L	99
15) Methyl Acetate	2.99	43	2518	0.329 ug/L #	56
16) Methylene chloride	3.08	84	5405	0.203 ug/L	89
19) 1,1-Dichloroethane	3.92	63	101279	2.782 ug/L	98
22) cis-1,2-Dichloroethene	4.72	96	72791	3.573 ug/L	91
25) Chloroform	5.14	83	102910	2.674 ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	37161	1.099 ug/L	99
31) Carbon tetrachloride	5.36	117	5393	0.178 ug/L	95
33) Benzene	5.82	78	65245	0.769 ug/L	100
34) Trichloroethene	6.58	95	4950	0.228 ug/L	96
35) Methylcyclohexane	6.73	83	26448	0.855 ug/L #	19
37) 1,2-Dichloropropane	6.73	63	11544	0.528 ug/L #	88
38) Bromodichloromethane	7.14	83	12057	0.432 ug/L	98
39) cis-1,3-Dichloropropene	7.60	75	2132	0.074 ug/L #	17
42) Toluene	8.00	91	30366	0.338 ug/L	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU121219\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 13 04:38:02 2019
Response via : Initial Calibration

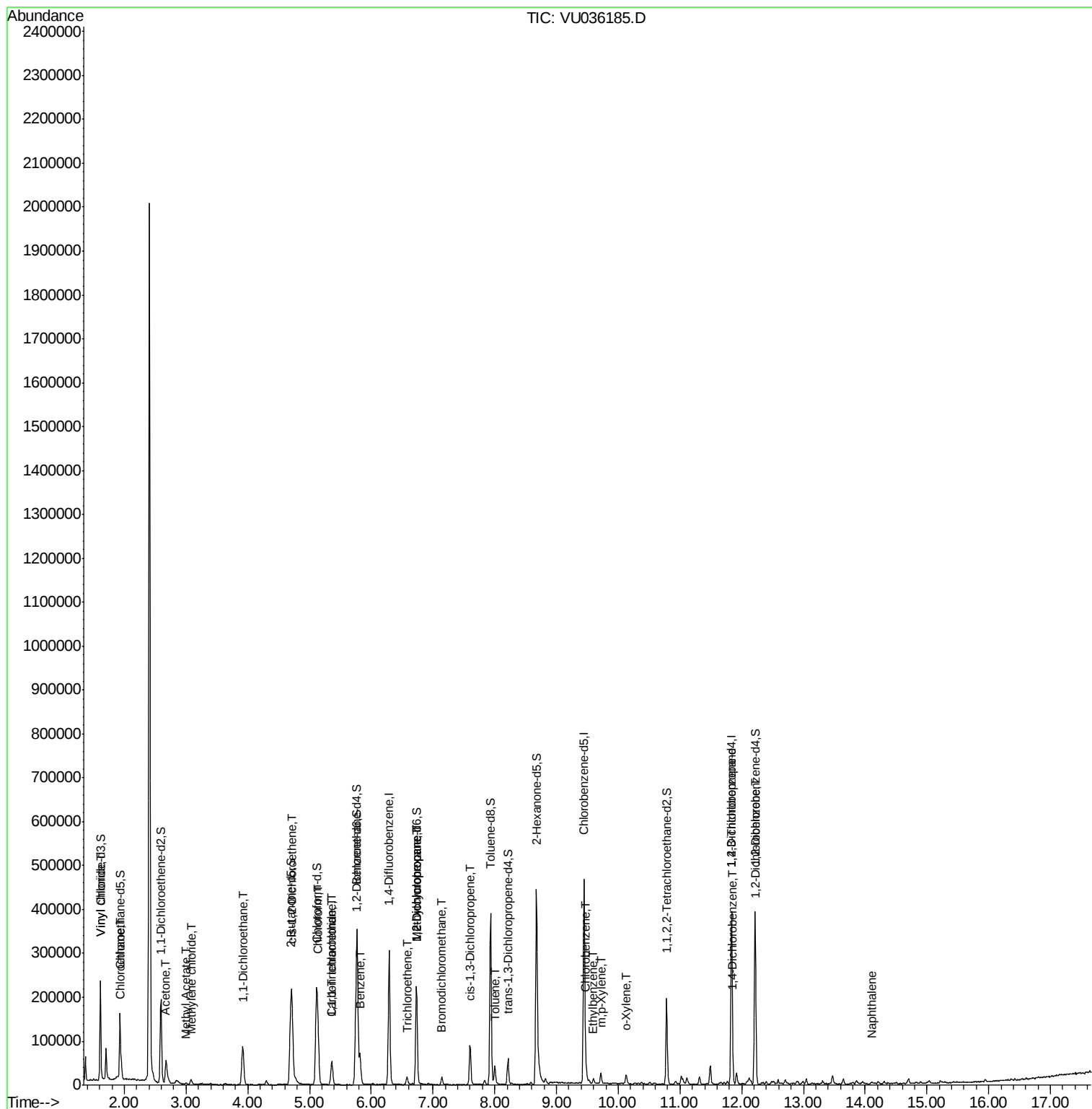
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.48	112	19051	0.326	ug/L	97
52) Ethylbenzene	9.60	91	6464	0.074	ug/L	90
53) m,p-Xylene	9.72	106	6962	0.203	ug/L	87
54) o-Xylene	10.13	106	5072	0.155	ug/L	73
59) 1,2,3-Trichloropropane	11.83	75	12887	0.893	ug/L	96
63) 1,4-Dichlorobenzene	11.86	146	3698	0.104	ug/L #	89
65) 1,2-Dichlorobenzene	12.23	146	4618	0.132	ug/L	95
69) Naphthalene	14.10	128	3221	0.254	ug/L #	90

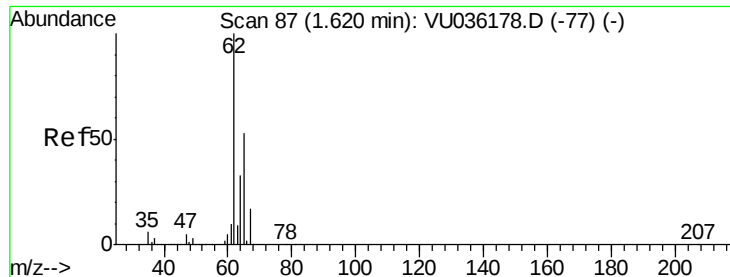
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.547 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

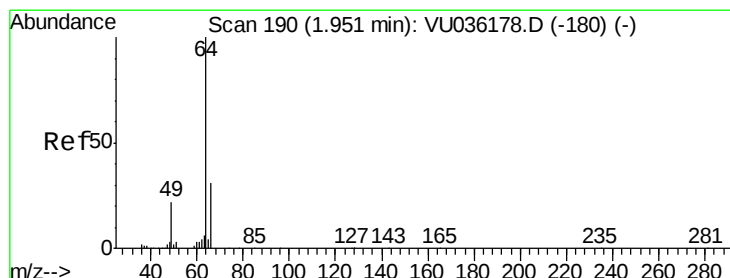
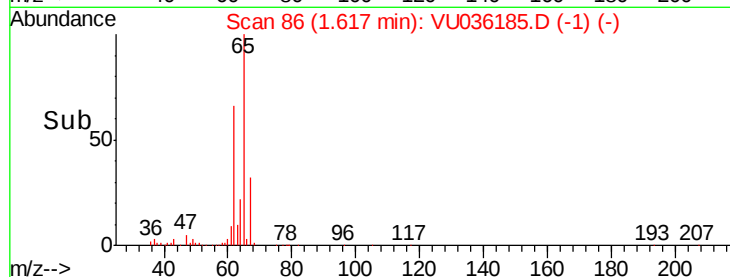
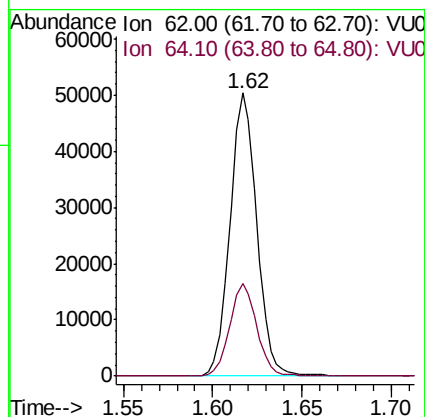
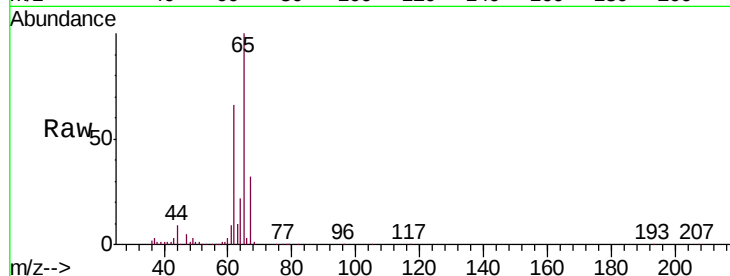
BFQW6

Tgt Ion: 62 Resp: 52315

Ion Ratio Lower Upper

62 100

64 32.6 24.0 44.6



#8

Chloroethane

Concen: 1.078 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036185.D

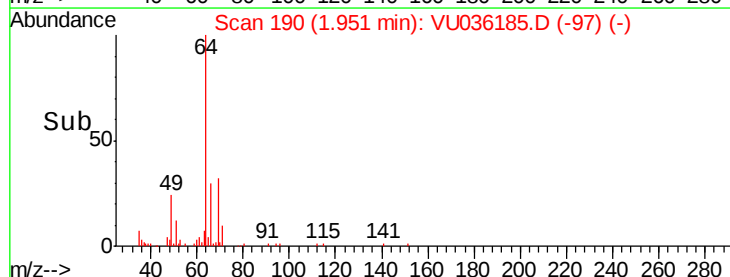
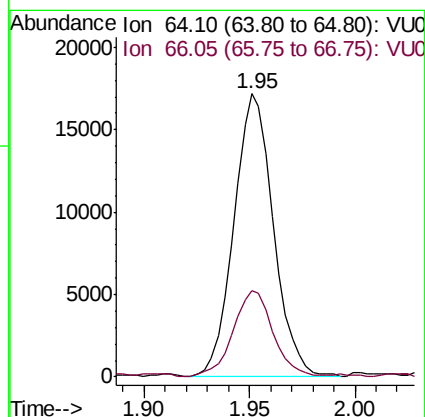
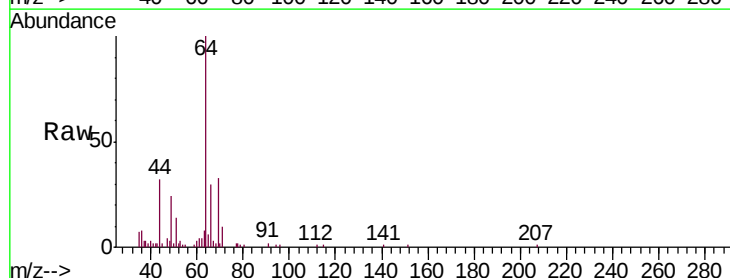
Acq: 13 Dec 2019 06:30

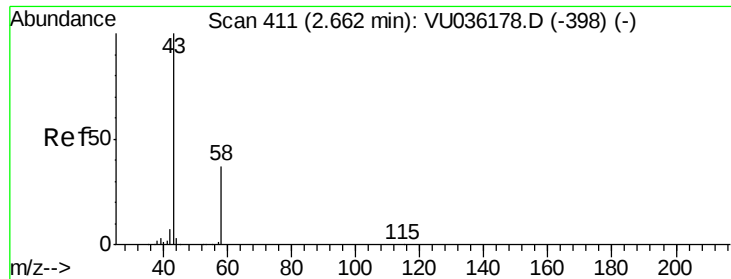
Tgt Ion: 64 Resp: 22433

Ion Ratio Lower Upper

64 100

66 30.5 22.0 41.0





#13

Acetone

Concen: 21.707 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.02 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

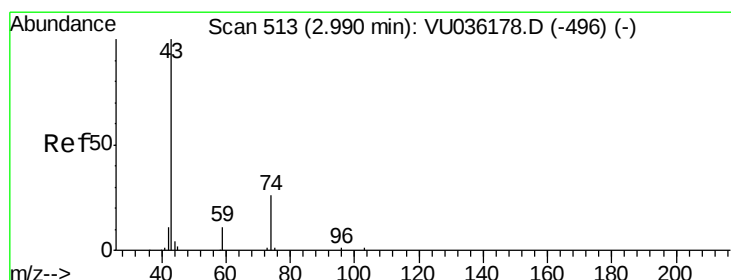
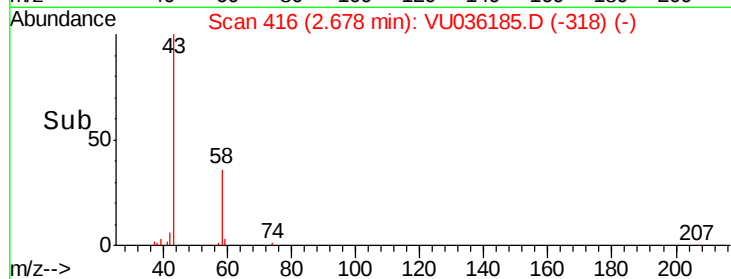
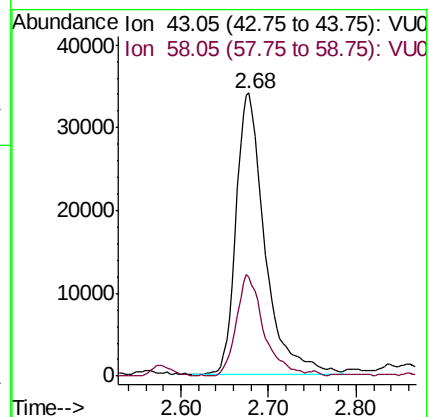
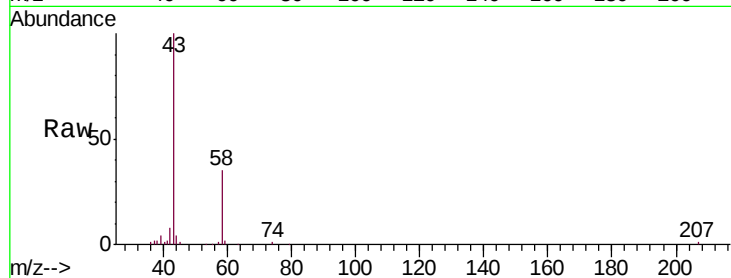
BFQW6

Tgt Ion: 43 Resp: 77841

Ion Ratio Lower Upper

43 100

58 34.1 0.0 70.0



#15

Methyl Acetate

Concen: 0.329 ug/L

RT: 2.99 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU036185.D

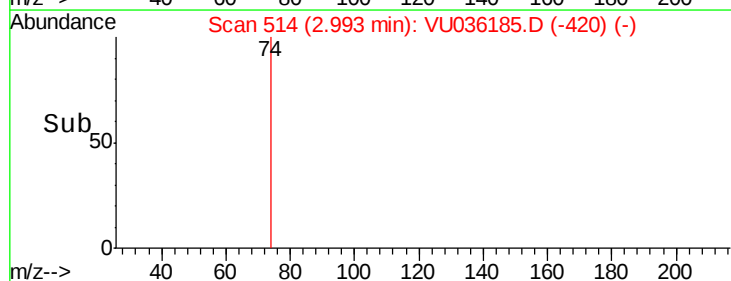
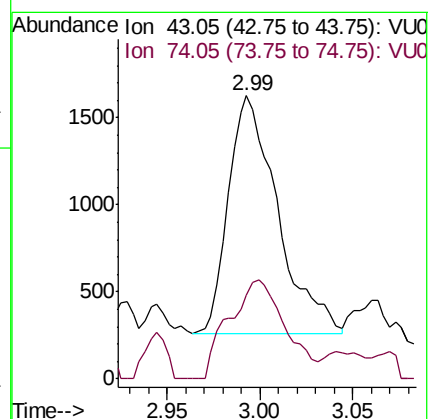
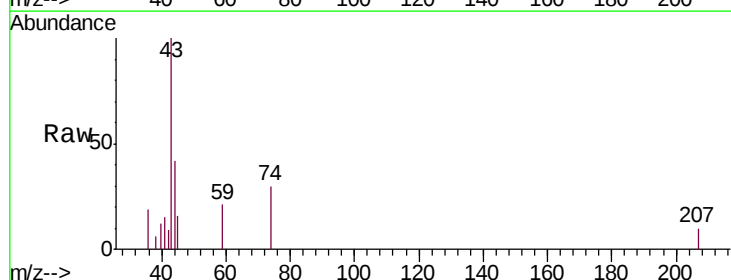
Acq: 13 Dec 2019 06:30

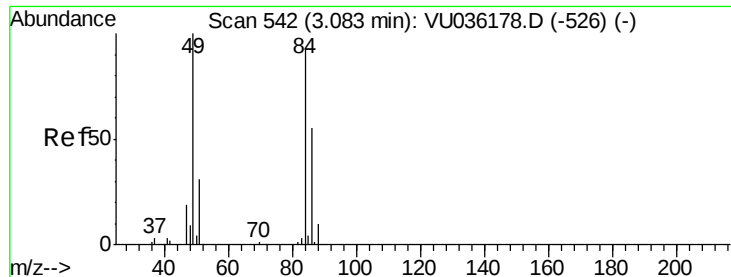
Tgt Ion: 43 Resp: 2518

Ion Ratio Lower Upper

43 100

74 47.9 20.6 30.8#

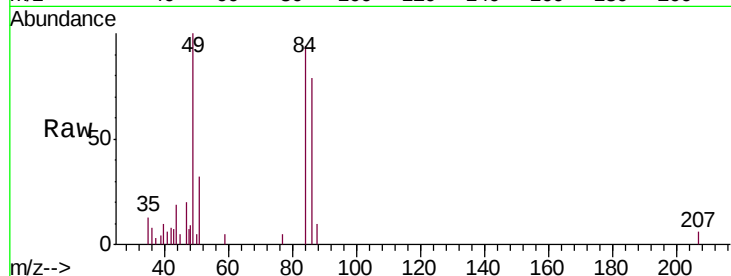




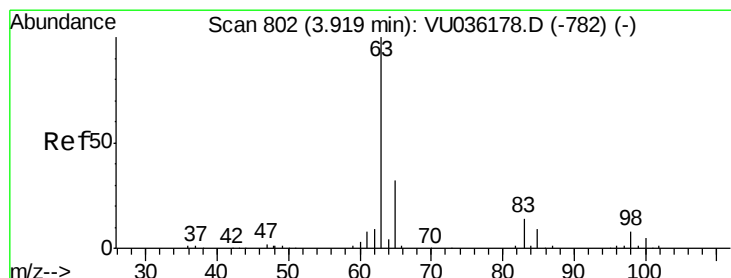
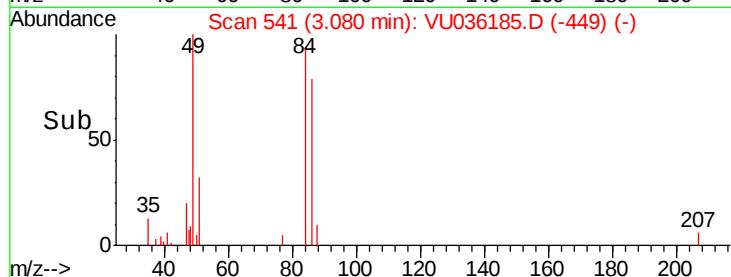
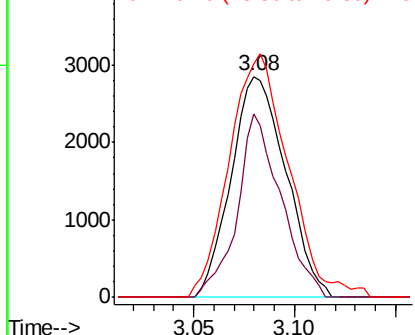
#16
Methylene chloride
Concen: 0.203 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Instrument :
MSVOA_U
ClientSampleId :
BFQW6

Tgt Ion: 84 Resp: 5405
Ion Ratio Lower Upper
84 100
86 83.3 46.1 85.5
49 106.0 77.7 144.3

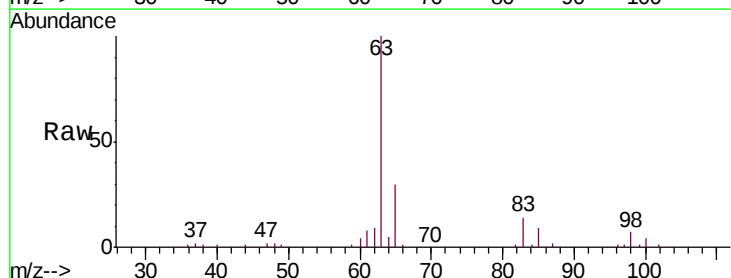


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

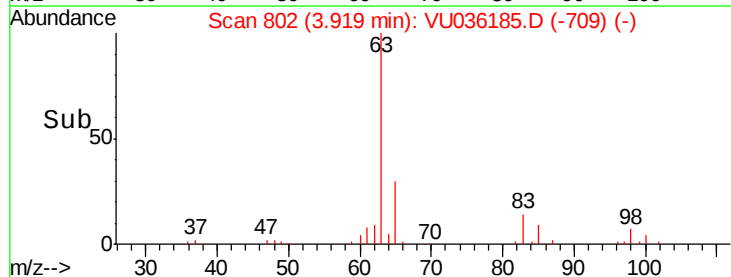
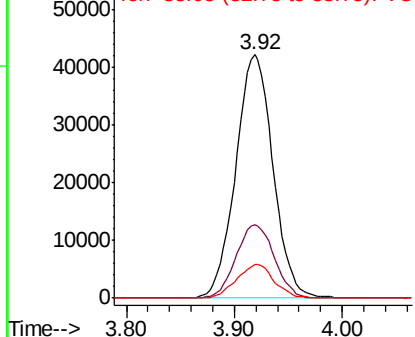


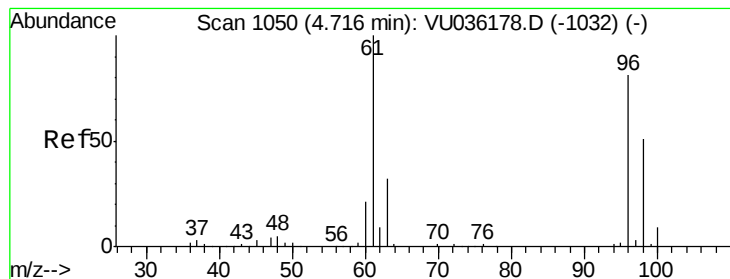
#19
1,1-Dichloroethane
Concen: 2.782 ug/L
RT: 3.92 min Scan# 802
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Tgt Ion: 63 Resp: 101279
Ion Ratio Lower Upper
63 100
65 30.1 22.2 41.2
83 13.9 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 3.573 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampled :

BFQW6

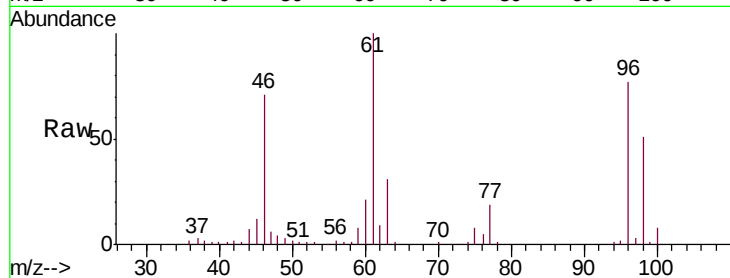
Tgt Ion: 96 Resp: 72791

Ion Ratio Lower Upper

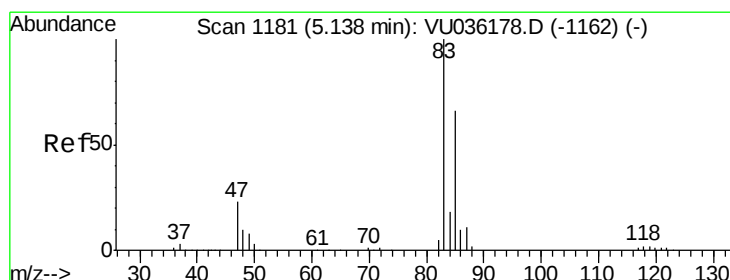
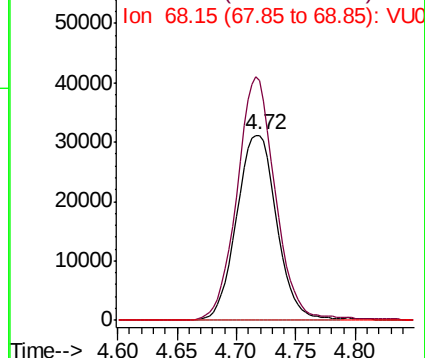
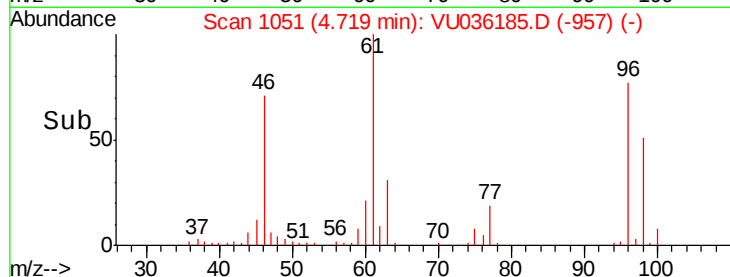
96 100

61 129.6 83.8 155.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036185.D (-957) (-)



#25

Chloroform

Concen: 2.674 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU036185.D

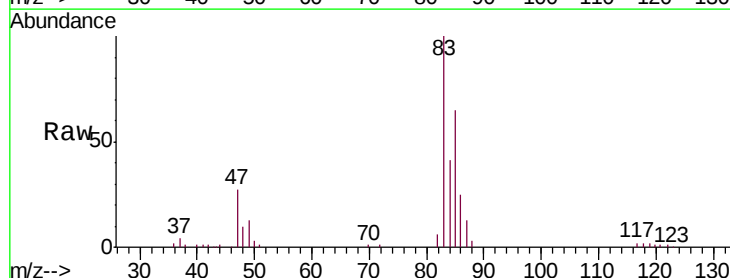
Acq: 13 Dec 2019 06:30

Tgt Ion: 83 Resp: 102910

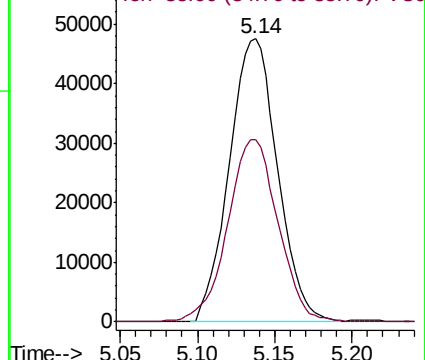
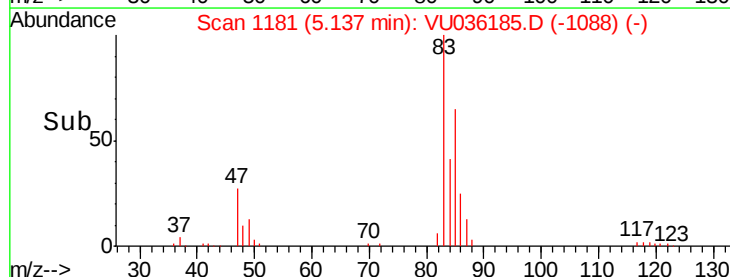
Ion Ratio Lower Upper

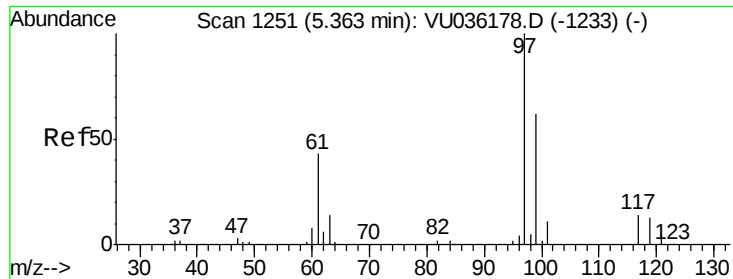
83 100

85 64.5 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU036185.D (-1088) (-)

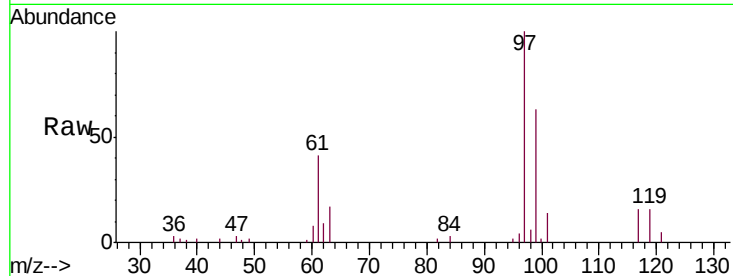




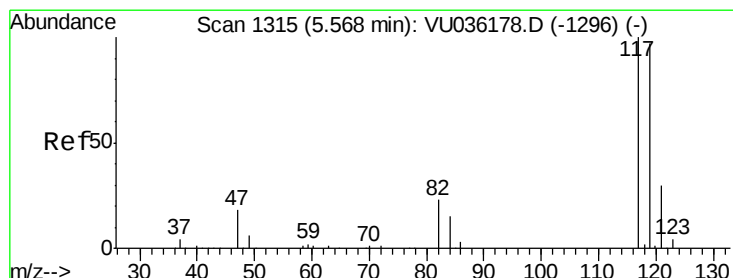
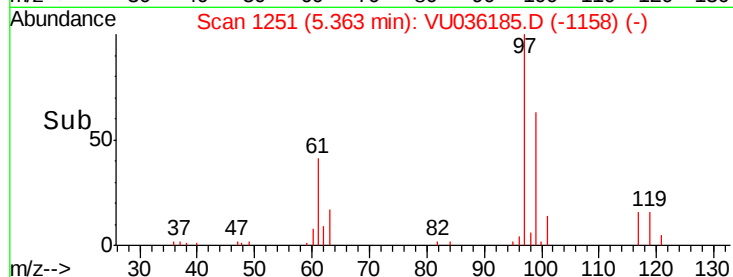
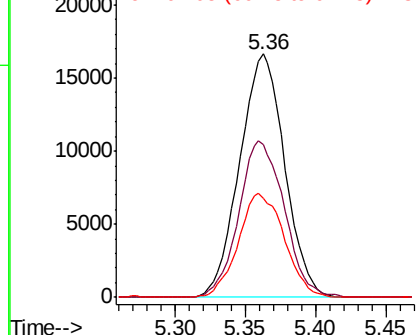
#29
 1,1,1-Trichloroethane
 Concen: 1.099 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VU036185.D
 Acq: 13 Dec 2019 06:30

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW6

Tgt Ion: 97 Resp: 37161
 Ion Ratio Lower Upper
 97 100
 99 64.9 52.6 79.0
 61 43.6 35.4 53.2

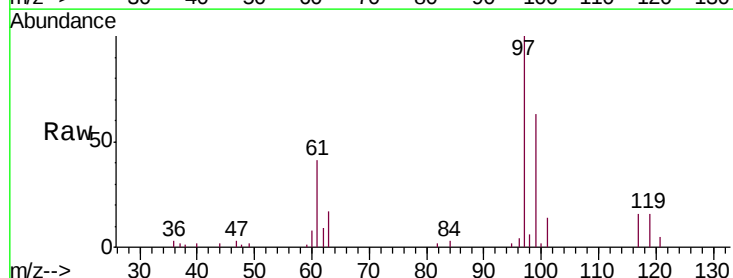


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

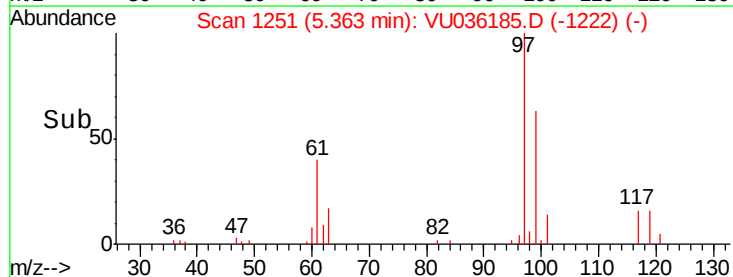
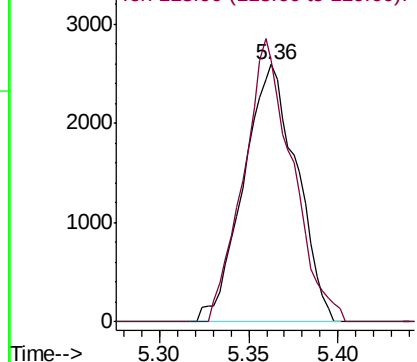


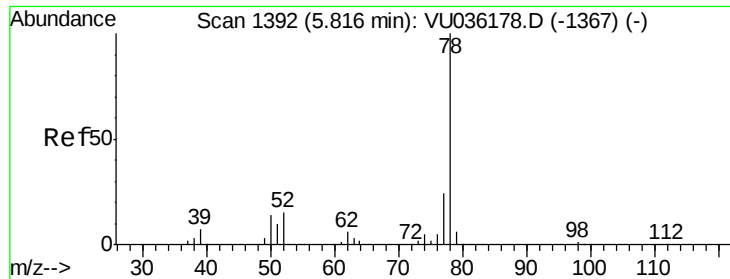
#31
 Carbon tetrachloride
 Concen: 0.178 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. -0.21 min
 Lab File: VU036185.D
 Acq: 13 Dec 2019 06:30

Tgt Ion: 117 Resp: 5393
 Ion Ratio Lower Upper
 117 100
 119 100.6 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 0.769 ug/L

RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

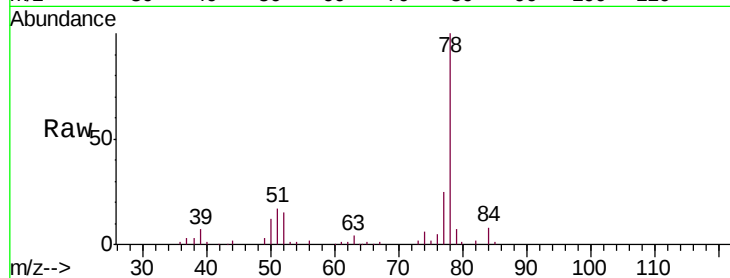
Instrument :

MSVOA_U

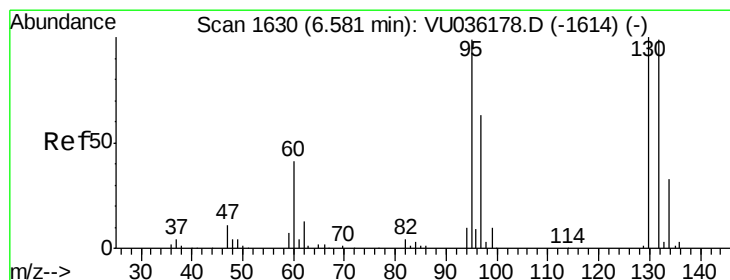
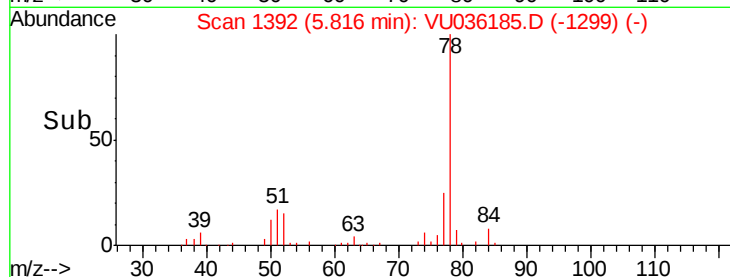
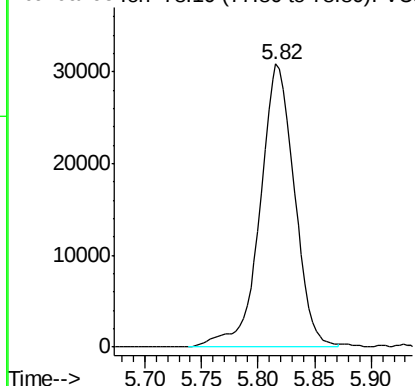
ClientSampleId :

BFQW6

Tgt Ion: 78 Resp: 65245



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.228 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Tgt Ion: 95 Resp: 4950

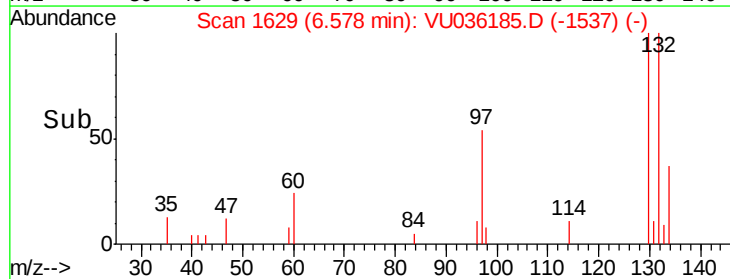
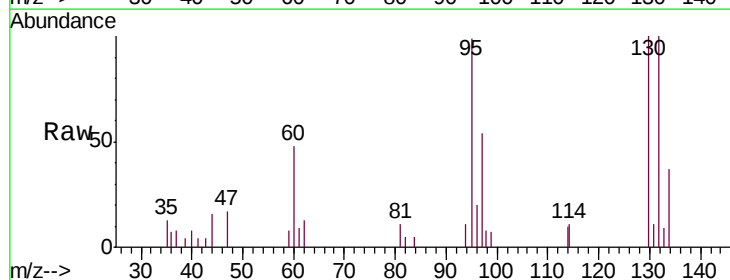
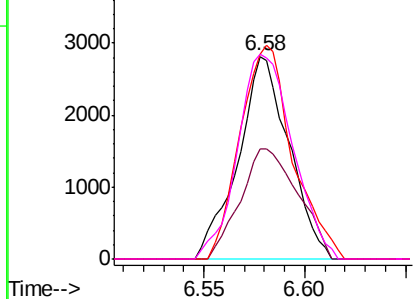
Ion	Ratio	Lower	Upper
95	100		
97	54.6	43.7	81.1
132	101.2	71.7	133.3
130	101.4	73.1	135.7

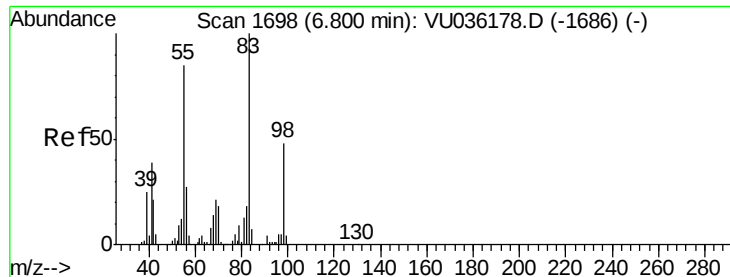
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

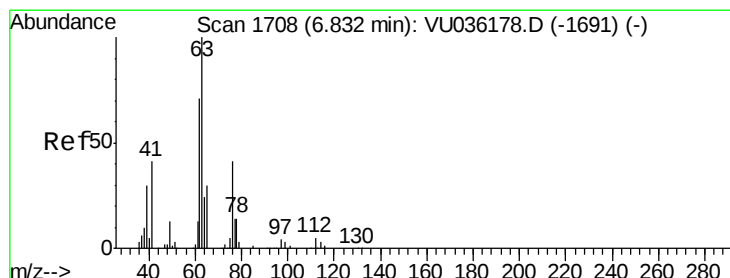
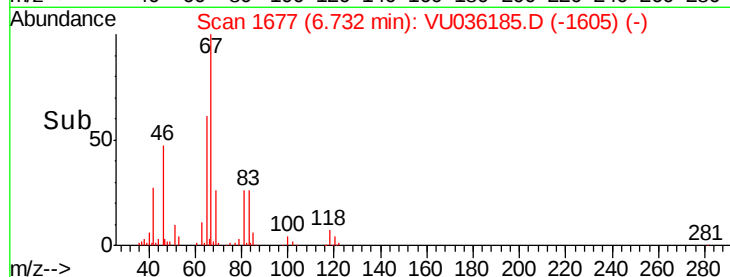
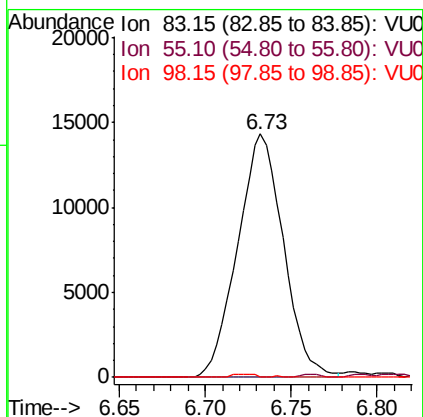
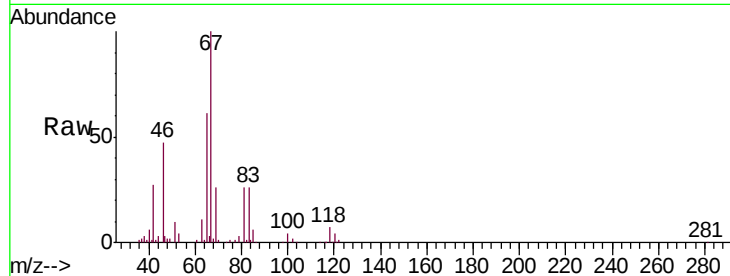




#35
Methylcyclohexane
Concen: 0.855 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.07 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

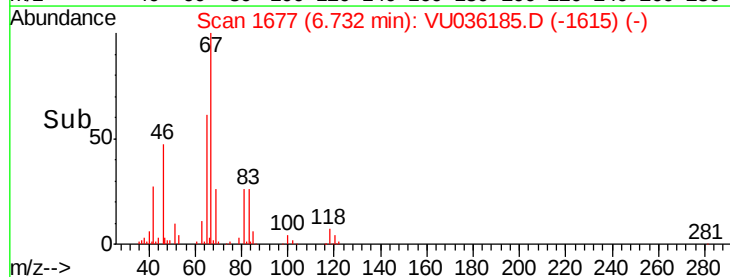
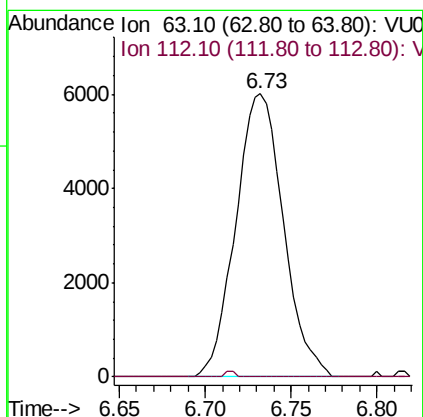
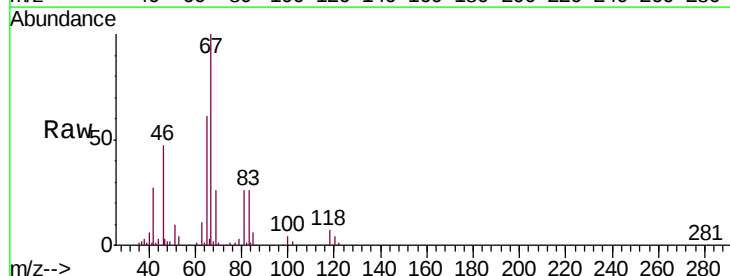
Instrument :
MSVOA_U
ClientSampleId :
BFQW6

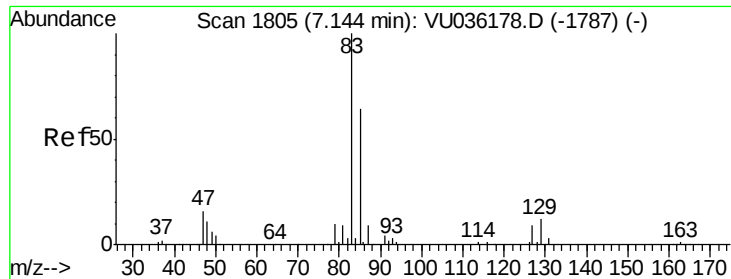
Tgt Ion: 83 Resp: 26448
Ion Ratio Lower Upper
83 100
55 0.6 61.9 92.9#
98 0.1 35.8 53.6#



#37
1,2-Dichloropropane
Concen: 0.528 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.10 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Tgt Ion: 63 Resp: 11544
Ion Ratio Lower Upper
63 100
112 0.4 3.6 5.4#





#38

Bromodichloromethane

Concen: 0.432 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

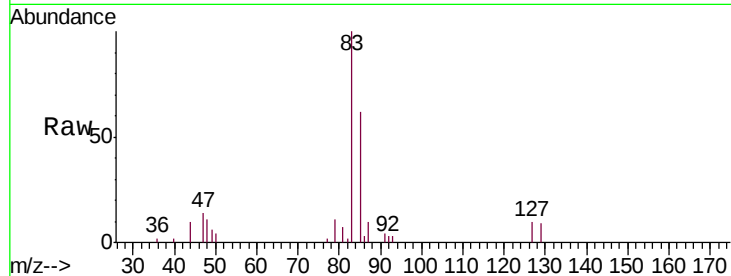
Instrument :

MSVOA_U

ClientSampleId :

BFQW6

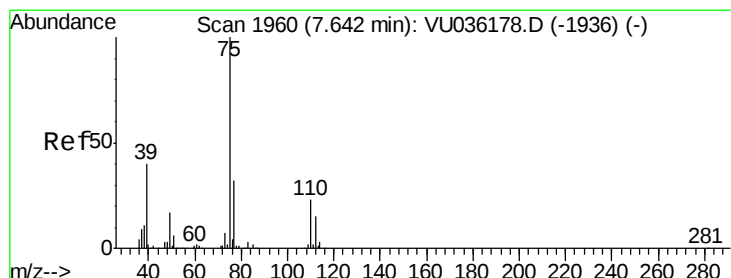
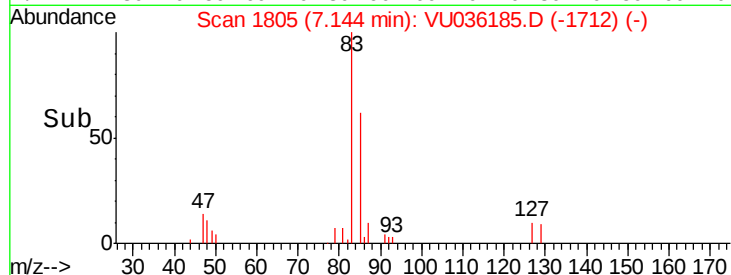
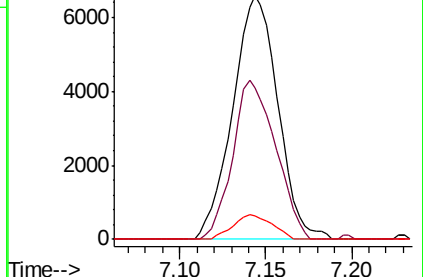
Tgt Ion:	83	Resp:	12057
Ion	Ratio	Lower	Upper
83	100		
85	62.1	44.7	83.1
127	9.9	7.4	11.0



Abundance Ion 82.95 (82.65 to 83.65): VU036185.D (-1712) (-)

Ion 85.00 (84.70 to 85.70): VU036185.D (-1712) (-)

Ion 126.90 (126.60 to 127.60): VU036185.D (-1712) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.074 ug/L

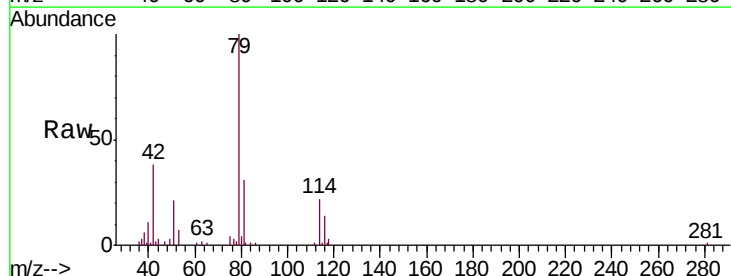
RT: 7.60 min Scan# 1946

Delta R.T. -0.05 min

Lab File: VU036185.D

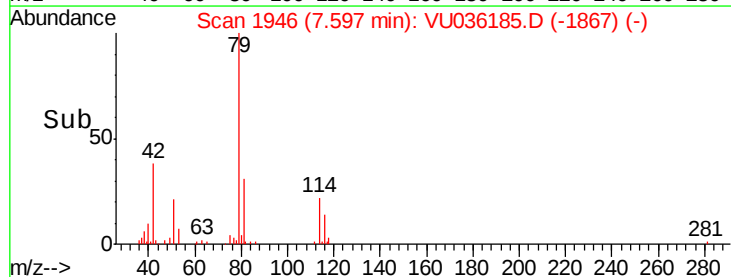
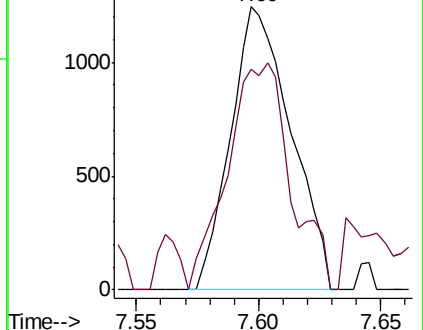
Acq: 13 Dec 2019 06:30

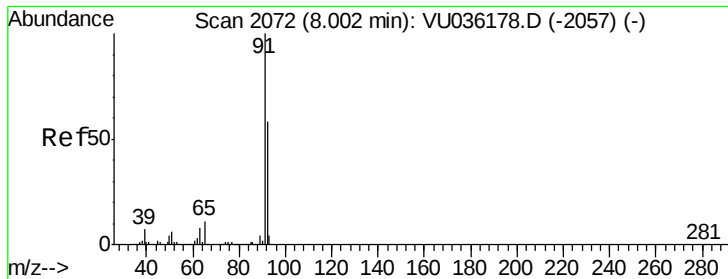
Tgt Ion:	75	Resp:	2132
Ion	Ratio	Lower	Upper
75	100		
77	78.1	22.3	41.5#



Abundance Ion 75.05 (74.75 to 75.75): VU036185.D (-1867) (-)

Ion 77.05 (76.75 to 77.75): VU036185.D (-1867) (-)





#42

Toluene

Concen: 0.338 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

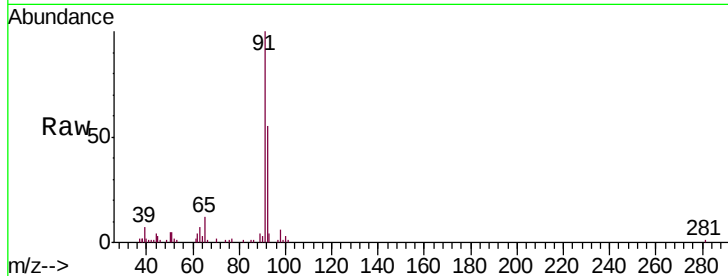
BFQW6

Tgt Ion: 91 Resp: 30366

Ion Ratio Lower Upper

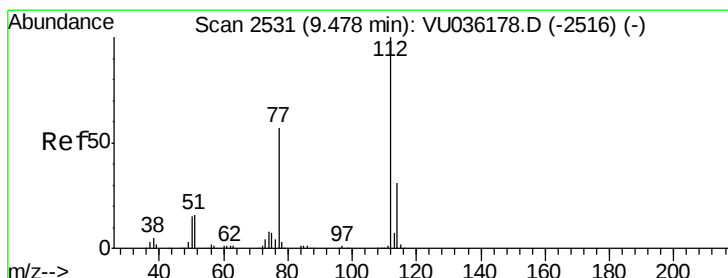
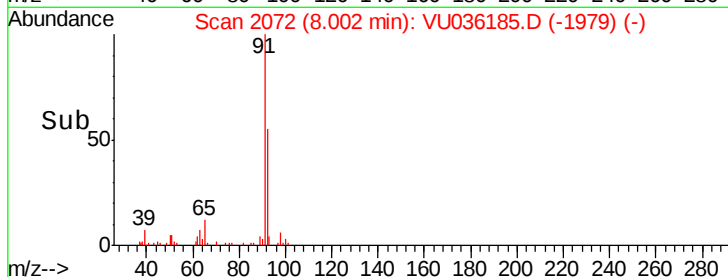
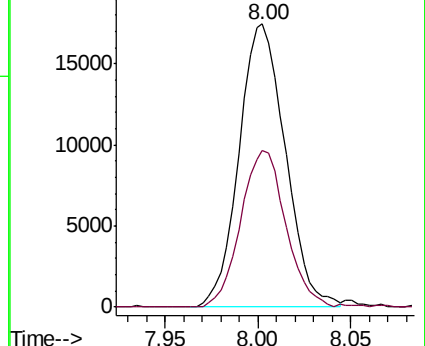
91 100

92 55.2 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU036178.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036178.D (-2057) (-)



#51

Chlorobenzene

Concen: 0.326 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

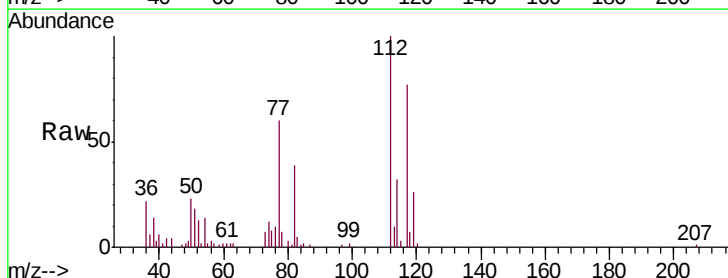
Tgt Ion: 112 Resp: 19051

Ion Ratio Lower Upper

112 100

114 31.5 22.2 41.2

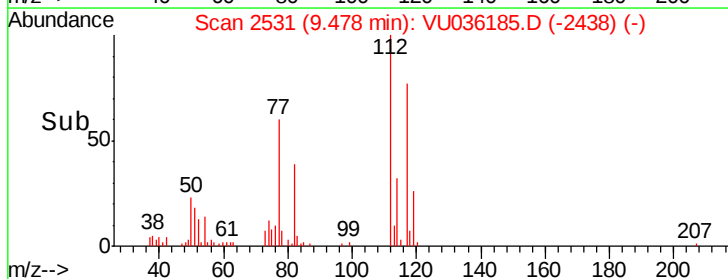
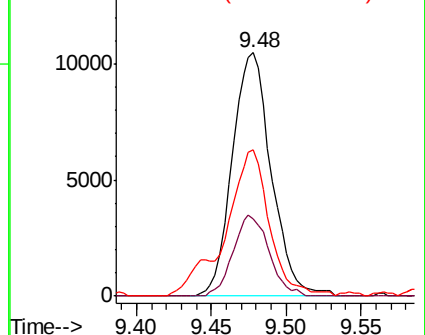
77 60.3 45.7 68.5

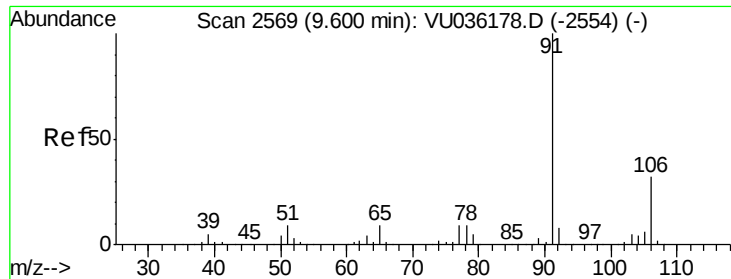


Abundance Ion 112.10 (111.80 to 112.80): VU036178.D (-2516) (-)

Ion 114.05 (113.75 to 114.75): VU036178.D (-2516) (-)

Ion 77.10 (76.80 to 77.80): VU036178.D (-2516) (-)





#52

Ethylbenzene

Concen: 0.074 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

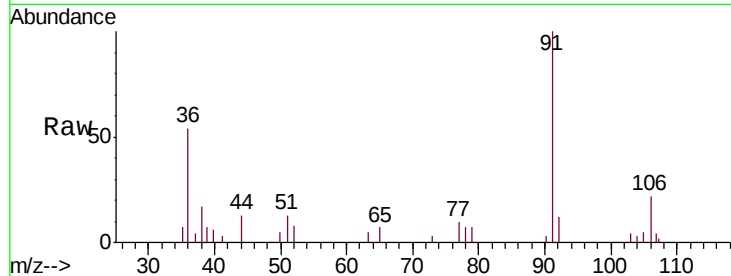
BFQW6

Tgt Ion: 91 Resp: 6464

Ion Ratio Lower Upper

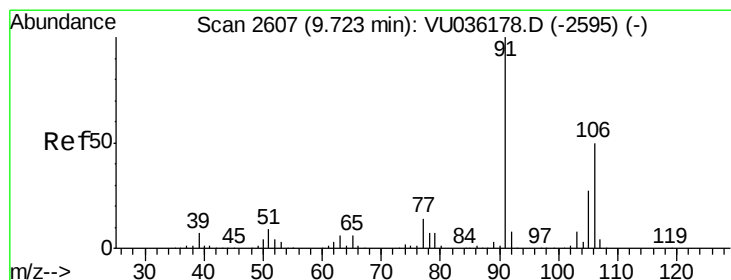
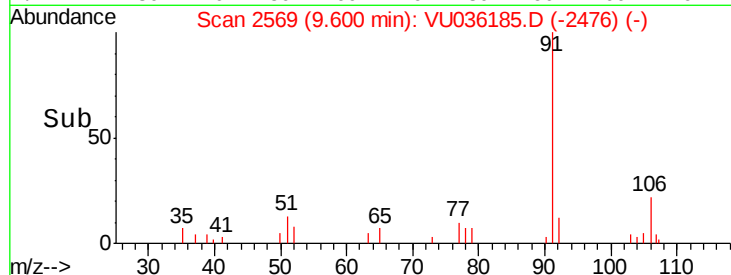
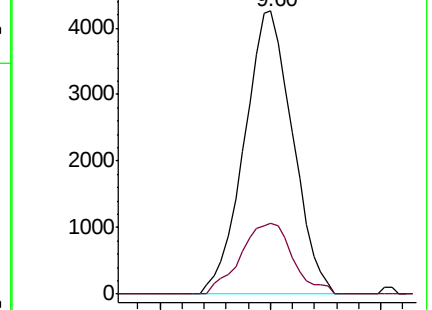
91 100

106 25.3 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VU036178.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036178.D (-2554) (-)



#53

m,p-Xylene

Concen: 0.203 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036185.D

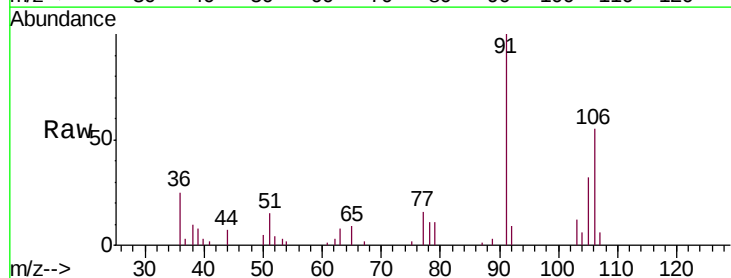
Acq: 13 Dec 2019 06:30

Tgt Ion: 106 Resp: 6962

Ion Ratio Lower Upper

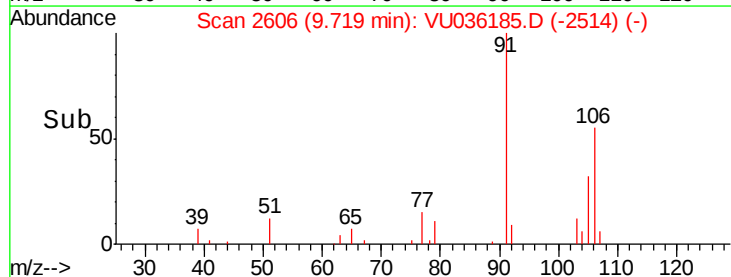
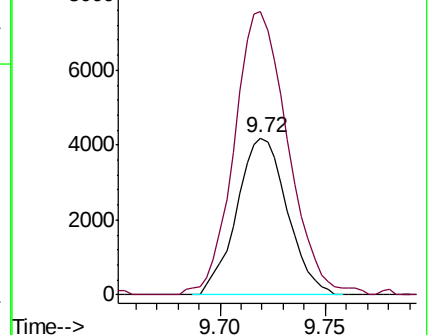
106 100

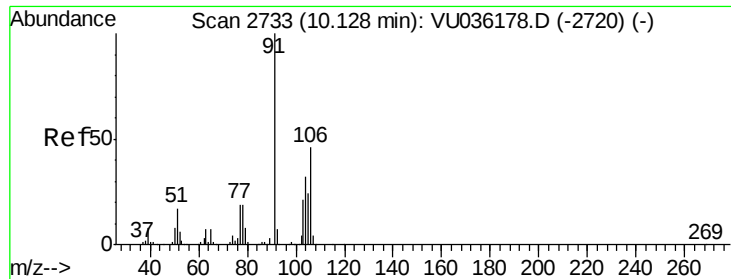
91 180.3 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU036178.D (-2595) (-)

Ion 91.15 (90.85 to 91.85): VU036178.D (-2595) (-)

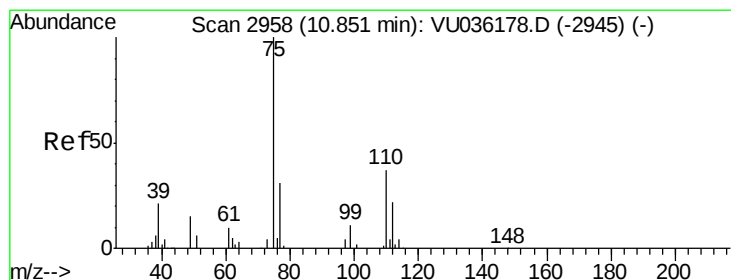
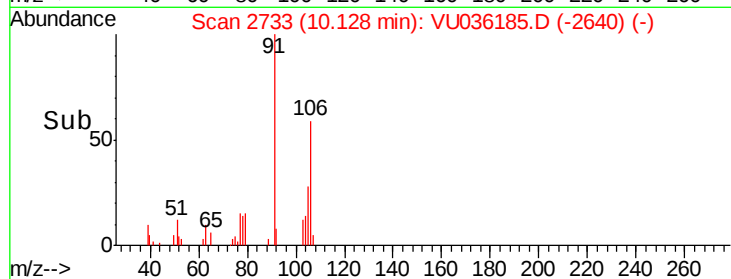
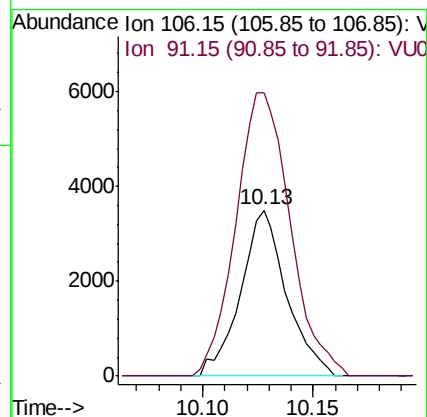
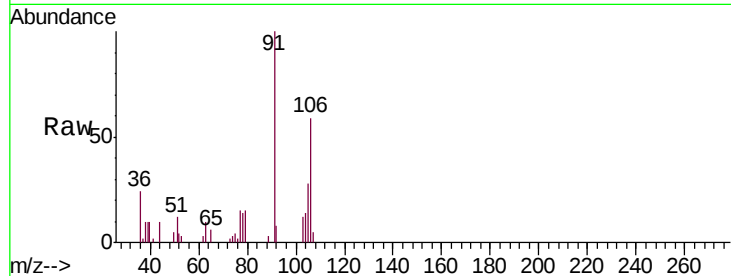




#54
o-Xylene
Concen: 0.155 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

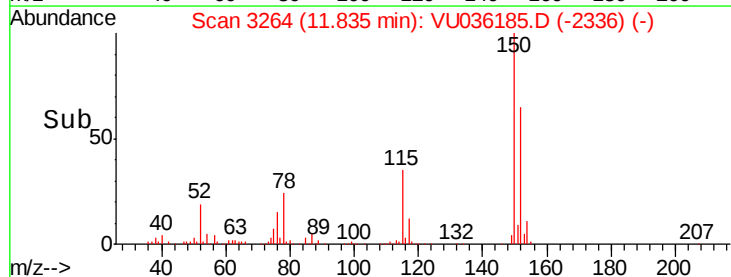
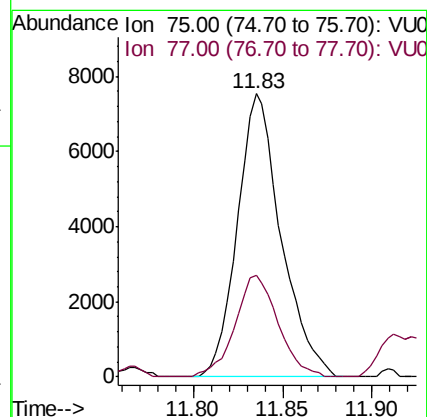
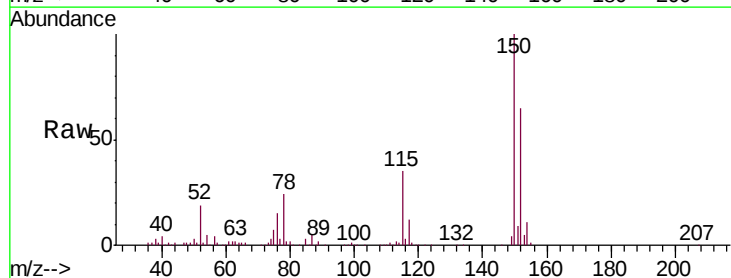
Instrument :
MSVOA_U
ClientSampleId :
BFQW6

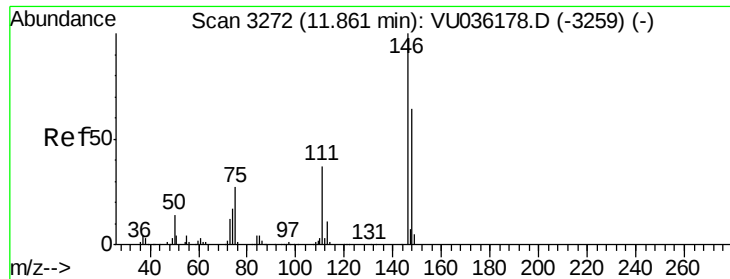
Tgt Ion:106 Resp: 5072
Ion Ratio Lower Upper
106 100
91 170.3 148.5 275.7



#59
1,2,3-Trichloropropane
Concen: 0.893 ug/L
RT: 11.83 min Scan# 3264
Delta R.T. 0.98 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Tgt Ion: 75 Resp: 12887
Ion Ratio Lower Upper
75 100
77 35.3 26.6 39.8

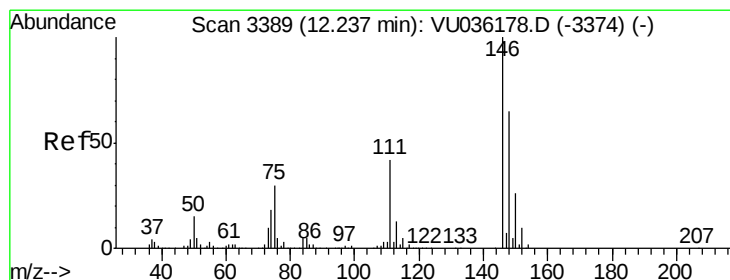
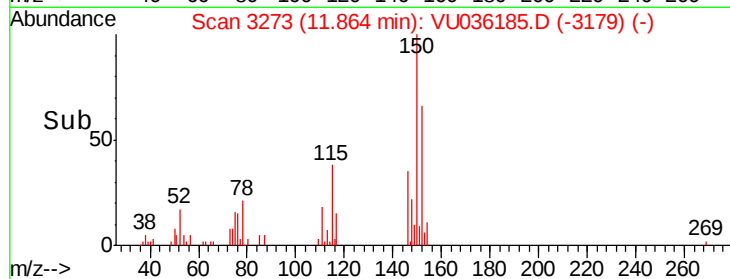
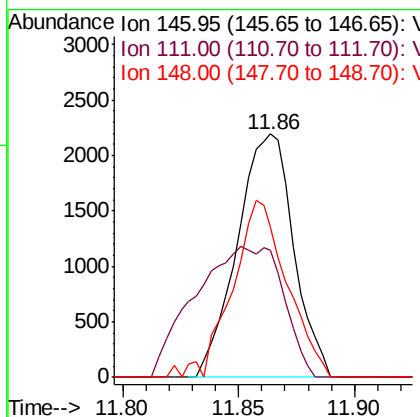
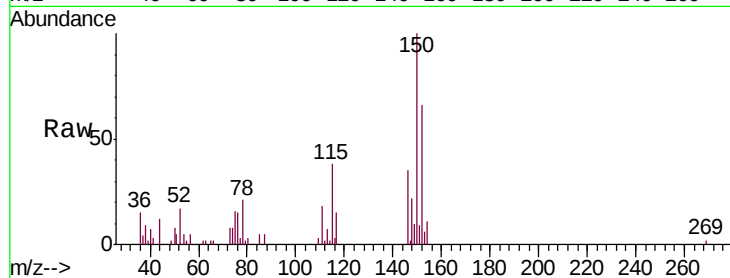




#63
 1,4-Dichlorobenzene
 Concen: 0.104 ug/L
 RT: 11.86 min Scan# 3273
 Delta R.T. 0.00 min
 Lab File: VU036185.D
 Acq: 13 Dec 2019 06:30

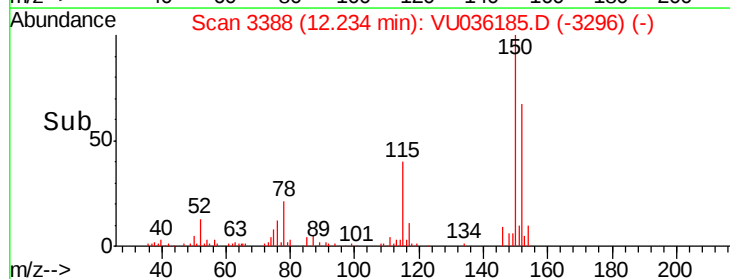
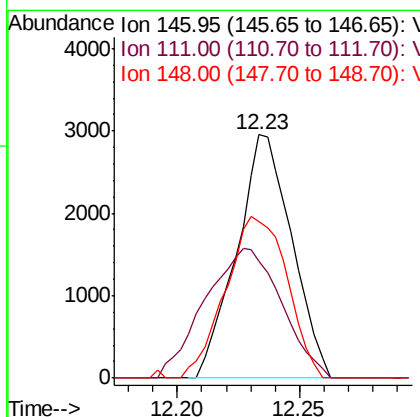
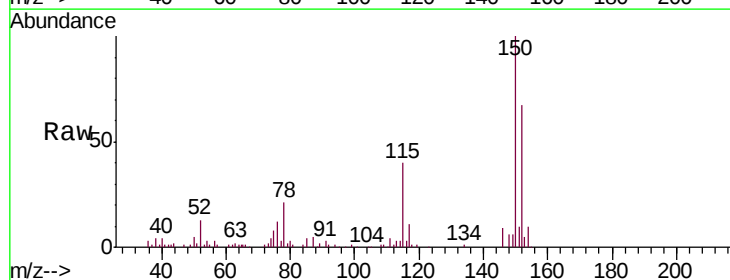
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW6

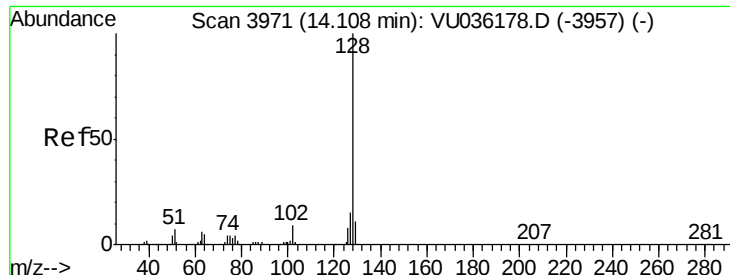
Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.3	27.5	51.1#
148	61.5	45.4	84.2



#65
 1,2-Dichlorobenzene
 Concen: 0.132 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036185.D
 Acq: 13 Dec 2019 06:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.1	33.3	49.9
148	64.2	52.2	78.2





#69

Naphthalene

Concen: 0.254 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

BFQW6

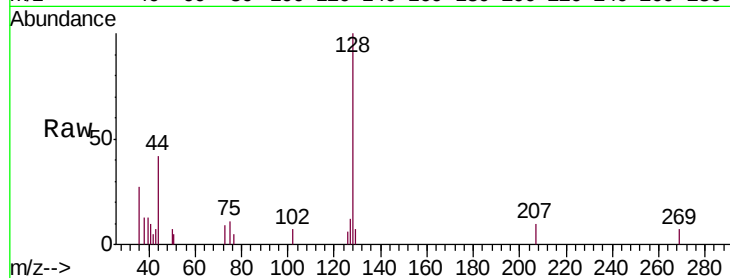
Tgt Ion:128 Resp: 3221

Ion Ratio Lower Upper

128 100

129 5.0 8.8 13.2#

127 12.1 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

