

Data File : VU036184.D
Acq On : 13 Dec 2019 06:05
Operator : JC/MD
Sample : K6240-12
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFQW5

Quant Time: Dec 13 08:03:17 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	257691	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	285794	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	114044	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	109196	4.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.60%
7) Chloroethane-d5	1.93	69	104890	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.40%
11) 1,1-Dichloroethene-d2	2.59	63	112890	3.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.40%
20) 2-Butanone-d5	4.69	46	221477	52.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.58%
24) Chloroform-d	5.11	84	182551	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.75	65	94333	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.77	84	333928	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.40%
36) 1,2-Dichloropropane-d6	6.73	67	107381	4.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.40%
41) Toluene-d8	7.93	98	270568	3.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.60%
43) trans-1,3-Dichloropropene-	8.21	79	35014	3.52	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.40%
46) 2-Hexanone-d5	8.67	63	163443	44.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.48%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	97987	4.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	107475	4.96	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.20%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	53738	1.561	ug/L 100
8) Chloroethane	1.95	64	22754	1.074	ug/L 96
12) 1,1-Dichloroethene	2.59	96	1949	0.100	ug/L # 1
13) Acetone	2.67	43	86339	23.656	ug/L 99
15) Methyl Acetate	3.00	43	2751	0.354	ug/L # 61
16) Methylene chloride	3.08	84	5662	0.209	ug/L 89
19) 1,1-Dichloroethane	3.92	63	104387	2.817	ug/L 98
21) 2-Butanone	4.77	43	10126	2.081	ug/L 94
22) cis-1,2-Dichloroethene	4.72	96	75910	3.661	ug/L 97
25) Chloroform	5.13	83	28975	0.740	ug/L 95
29) 1,1,1-Trichloroethane	5.36	97	37975	1.084	ug/L 99
31) Carbon tetrachloride	5.36	117	5408	0.172	ug/L 97
33) Benzene	5.82	78	73124	0.832	ug/L 100
34) Trichloroethene	6.58	95	6120	0.272	ug/L 90
35) Methylcyclohexane	6.73	83	26167	0.817	ug/L # 19
37) 1,2-Dichloropropane	6.73	63	11327	0.499	ug/L # 89
38) Bromodichloromethane	7.14	83	3582	0.124	ug/L 95

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

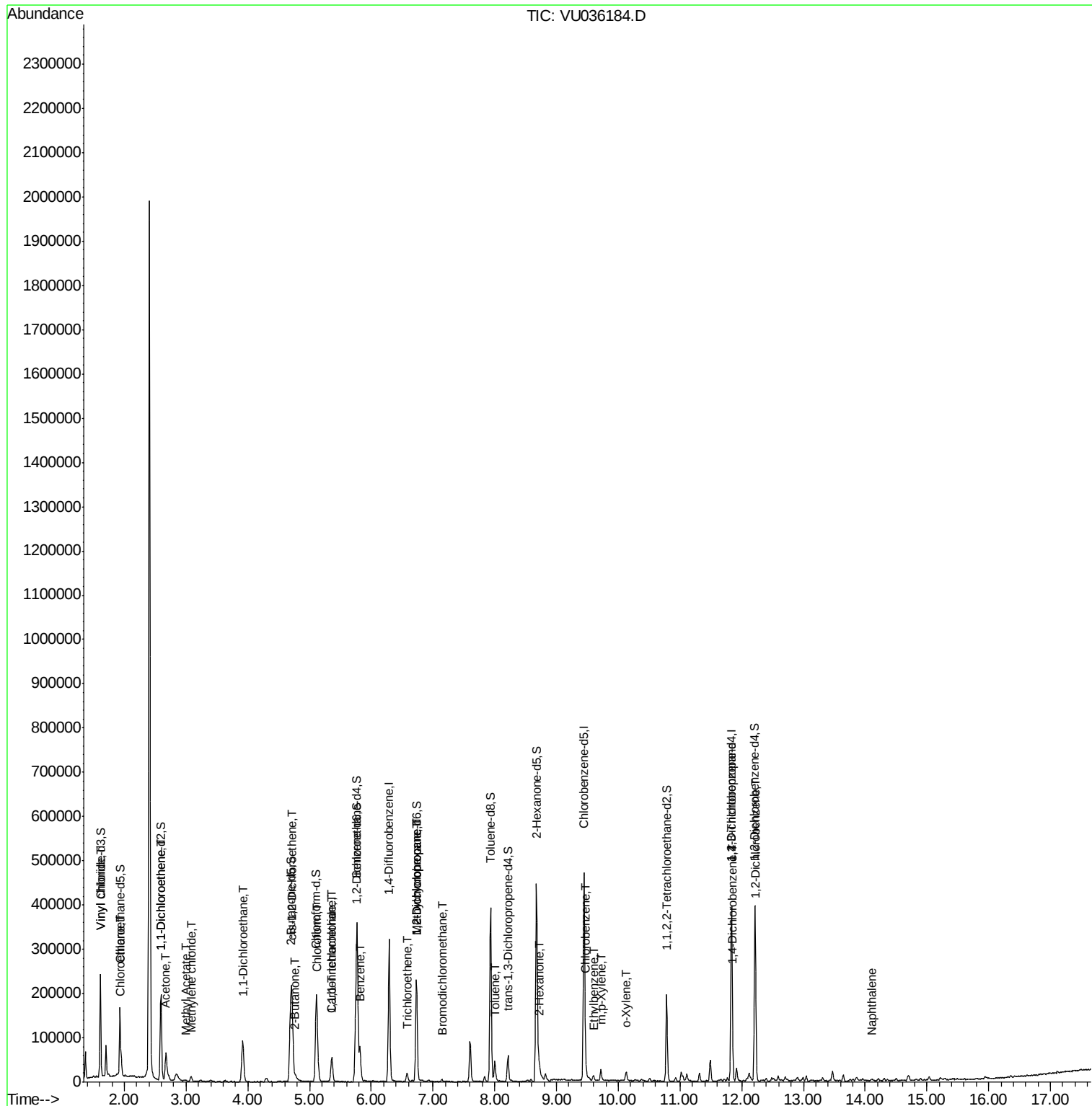
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	32605	0.350	ug/L	100
48) 2-Hexanone	8.73	43	8064	0.960	ug/L #	94
51) Chlorobenzene	9.47	112	11819	0.195	ug/L	99
52) Ethylbenzene	9.60	91	6967	0.077	ug/L	86
53) m,p-Xylene	9.72	106	7005	0.197	ug/L	96
54) o-Xylene	10.13	106	4674	0.138	ug/L	91
59) 1,2,3-Trichloropropane	11.83	75	13524	0.905	ug/L	96
63) 1,4-Dichlorobenzene	11.86	146	4119	0.112	ug/L	84
65) 1,2-Dichlorobenzene	12.23	146	5285	0.146	ug/L #	94
69) Naphthalene	14.11	128	3724	0.283	ug/L #	95

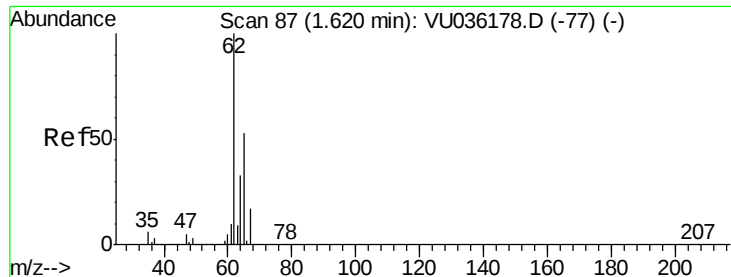
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.561 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

Instrument :

MSVOA_U

ClientSampleId :

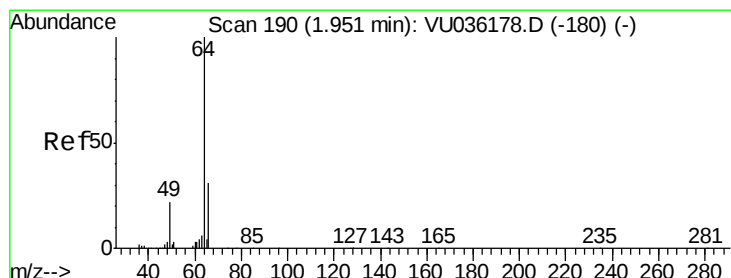
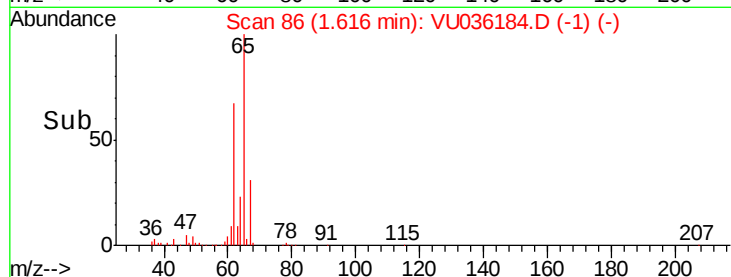
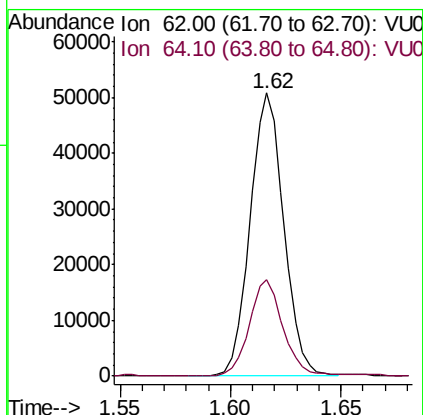
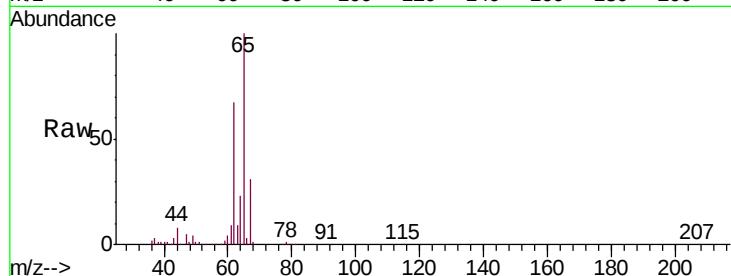
BFQW5

Tgt Ion: 62 Resp: 53738

Ion Ratio Lower Upper

62 100

64 34.2 24.0 44.6



#8

Chloroethane

Concen: 1.074 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036184.D

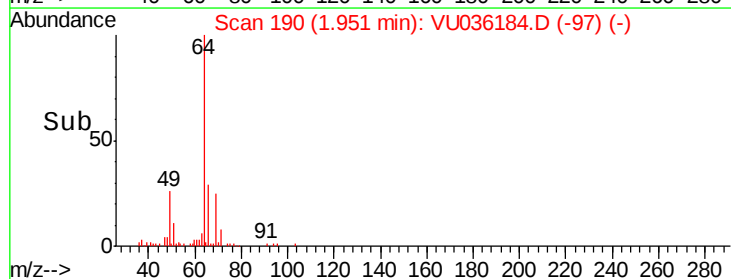
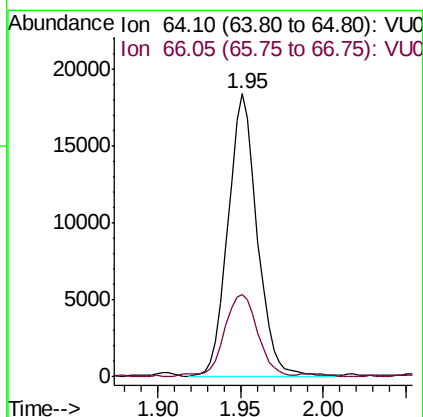
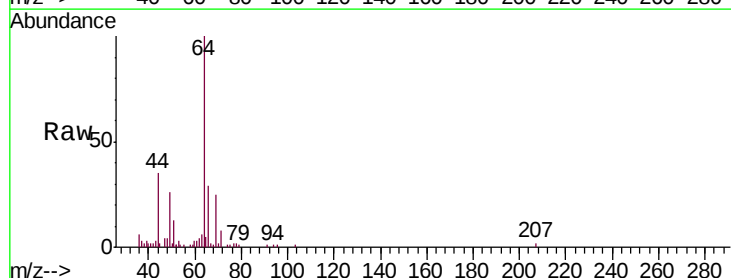
Acq: 13 Dec 2019 06:05

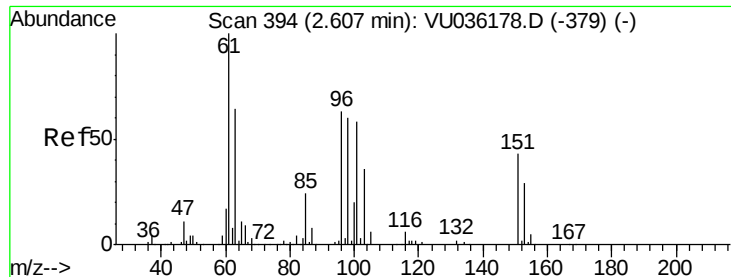
Tgt Ion: 64 Resp: 22754

Ion Ratio Lower Upper

64 100

66 29.1 22.0 41.0





#12

1,1-Dichloroethene

Concen: 0.100 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

Instrument :

MSVOA_U

ClientSampleId :

BFQW5

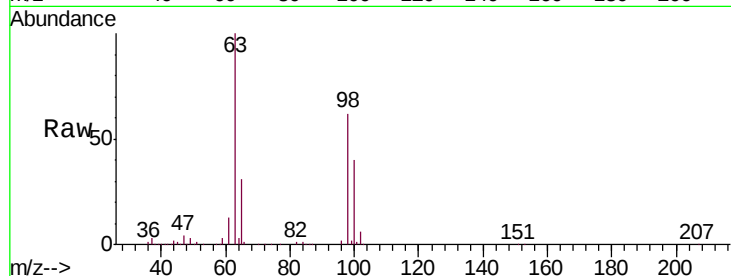
Tgt Ion: 96 Resp: 1949

Ion Ratio Lower Upper

96 100

61 851.3 110.6 205.4#

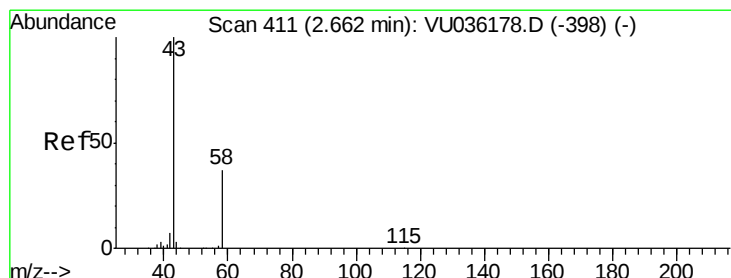
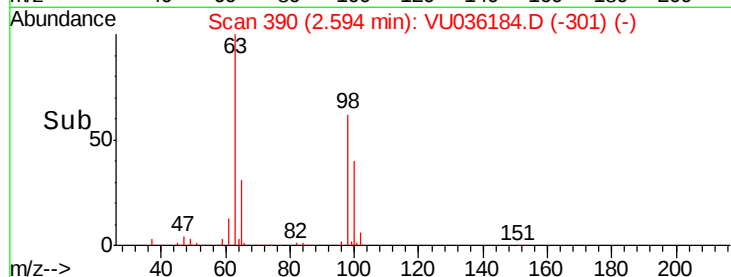
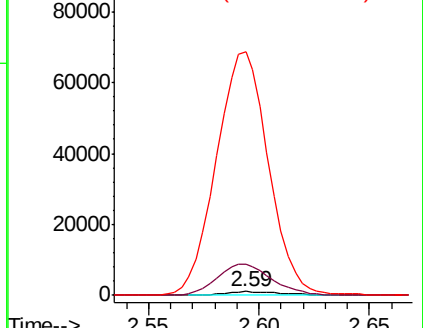
63 6642.2 71.6 133.0#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 23.656 ug/L

RT: 2.67 min Scan# 415

Delta R.T. 0.01 min

Lab File: VU036184.D

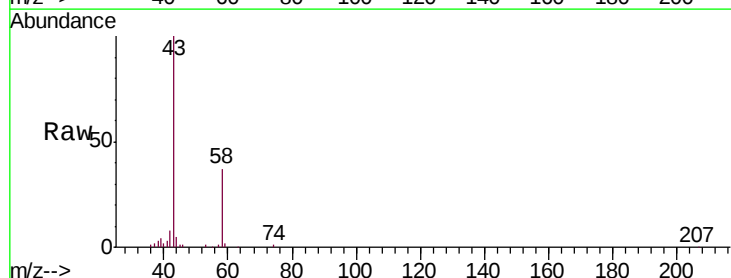
Acq: 13 Dec 2019 06:05

Tgt Ion: 43 Resp: 86339

Ion Ratio Lower Upper

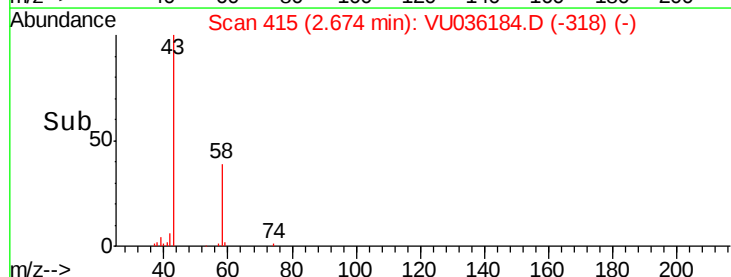
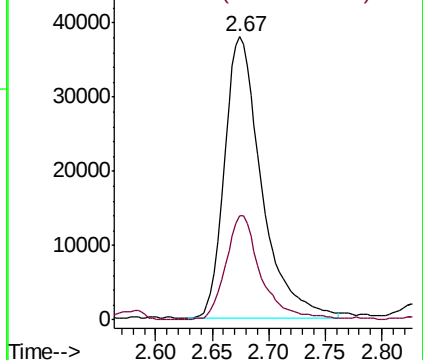
43 100

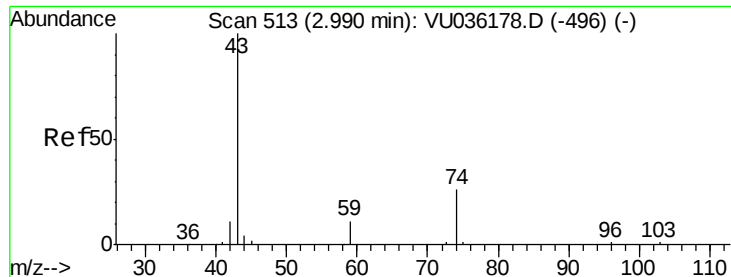
58 35.5 0.0 70.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#15

Methyl Acetate

Concen: 0.354 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

Instrument :

MSVOA_U

ClientSampleId :

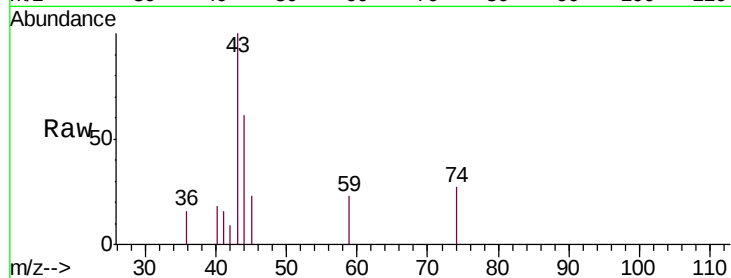
BFQW5

Tgt Ion: 43 Resp: 2751

Ion Ratio Lower Upper

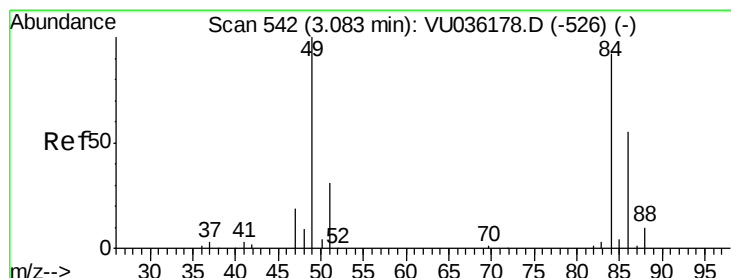
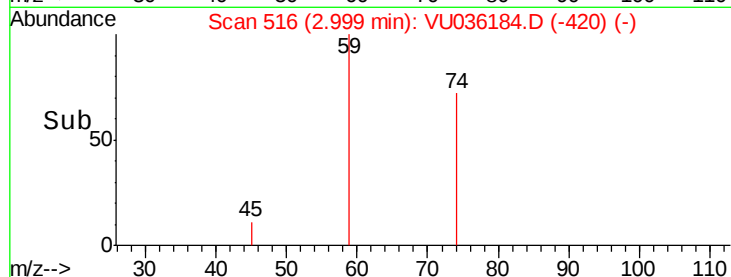
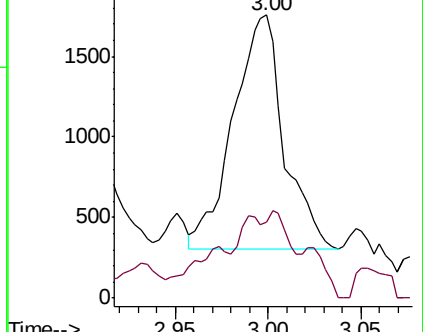
43 100

74 6.0 20.6 30.8#



Abundance Ion 43.05 (42.75 to 43.75): VU036184.D (-496) (-)

Ion 74.05 (73.75 to 74.75): VU036184.D (-496) (-)



#16

Methylene chloride

Concen: 0.209 ug/L

RT: 3.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

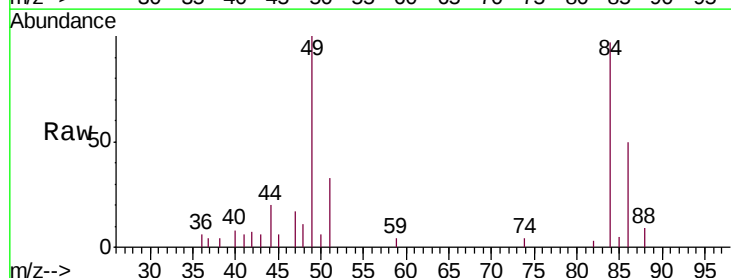
Tgt Ion: 84 Resp: 5662

Ion Ratio Lower Upper

84 100

86 51.4 46.1 85.5

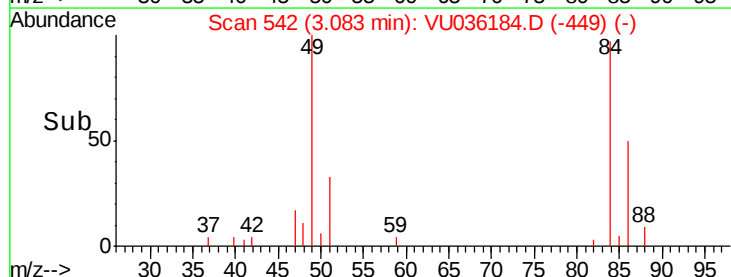
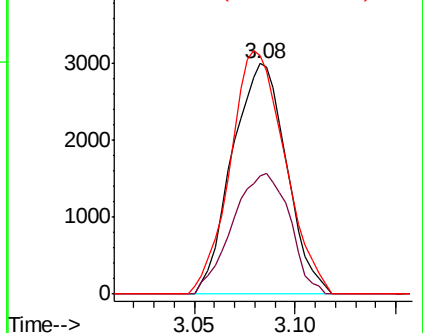
49 103.6 77.7 144.3

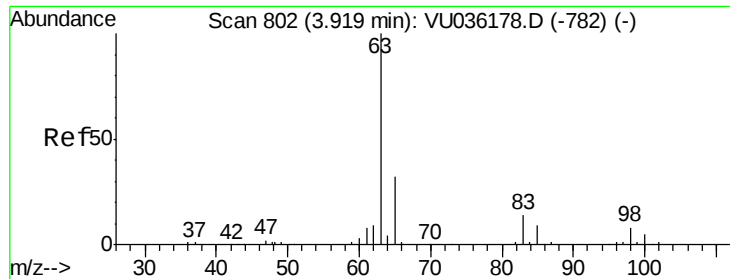


Abundance Ion 84.05 (83.75 to 84.75): VU036184.D (-449) (-)

Ion 86.00 (85.70 to 86.70): VU036184.D (-449) (-)

Ion 49.10 (48.80 to 49.80): VU036184.D (-449) (-)





#19

1,1-Dichloroethane

Concen: 2.817 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

Instrument :

MSVOA_U

ClientSampleId :

BFQW5

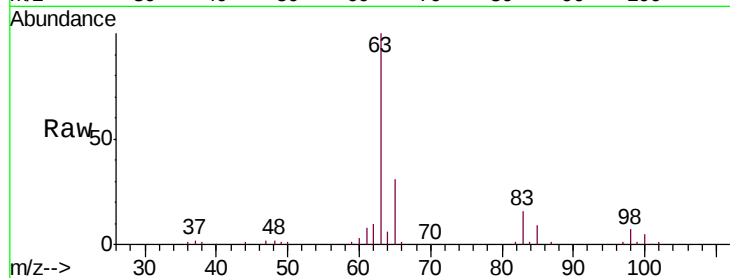
Tgt Ion: 63 Resp: 104387

Ion Ratio Lower Upper

63 100

65 30.7 22.2 41.2

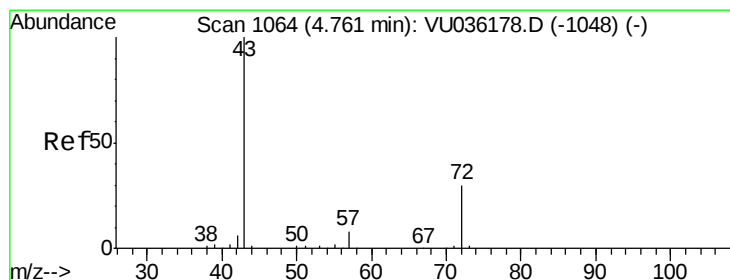
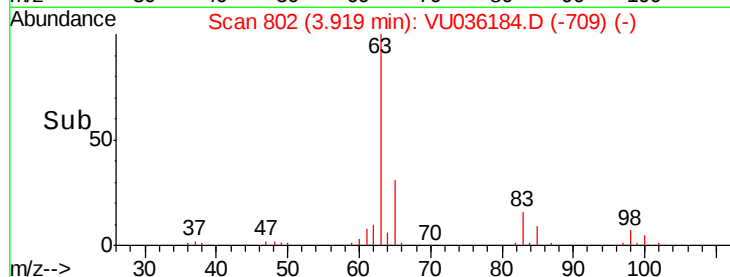
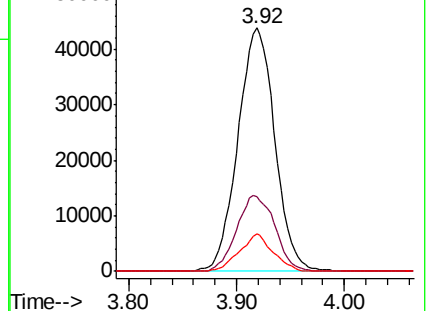
83 15.5 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU036184.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU036184.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU036184.D (-709) (-)



#21

2-Butanone

Concen: 2.081 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. 0.01 min

Lab File: VU036184.D

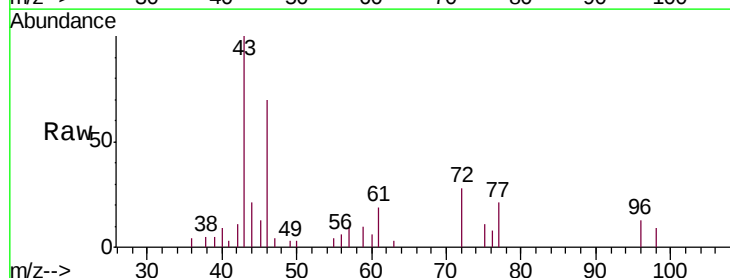
Acq: 13 Dec 2019 06:05

Tgt Ion: 43 Resp: 10126

Ion Ratio Lower Upper

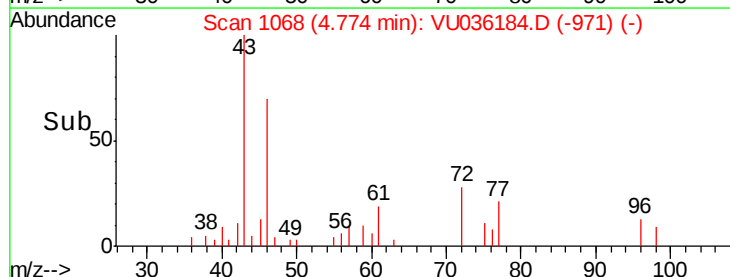
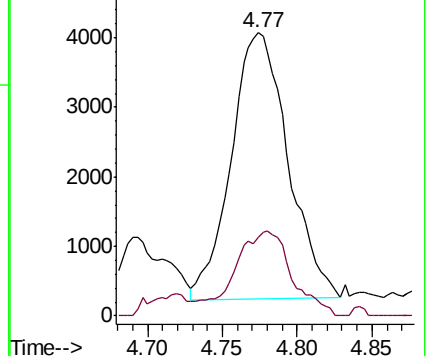
43 100

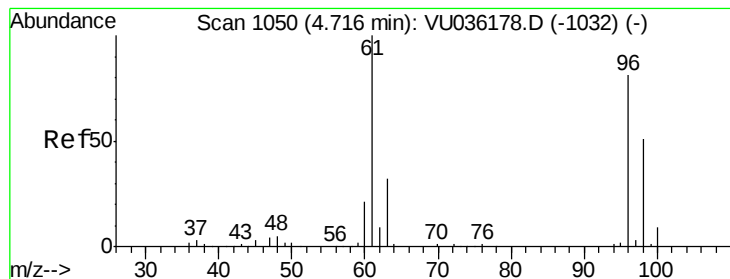
72 32.1 14.4 43.2



Abundance Ion 43.05 (42.75 to 43.75): VU036184.D (-971) (-)

Ion 72.10 (71.80 to 72.80): VU036184.D (-971) (-)





#22

cis-1,2-Dichloroethene

Concen: 3.661 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

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ClientSampleId :

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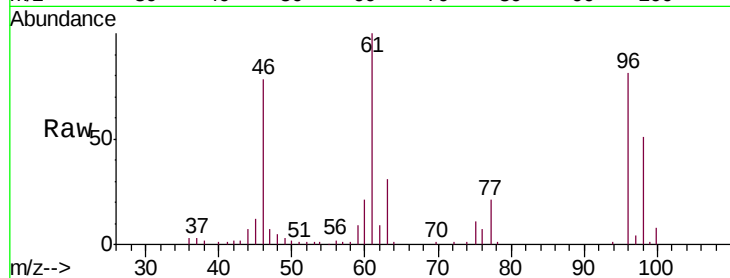
Tgt Ion: 96 Resp: 75910

Ion Ratio Lower Upper

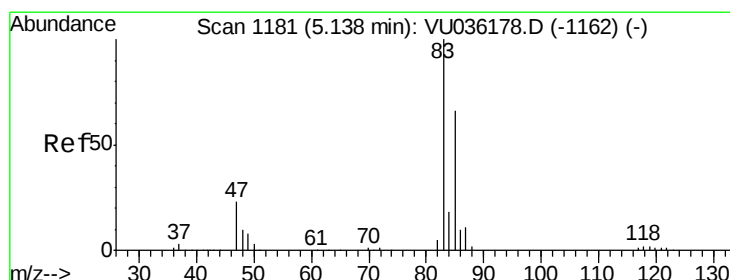
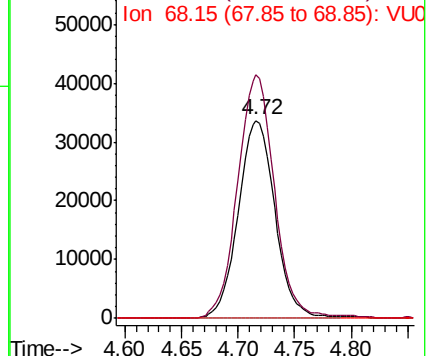
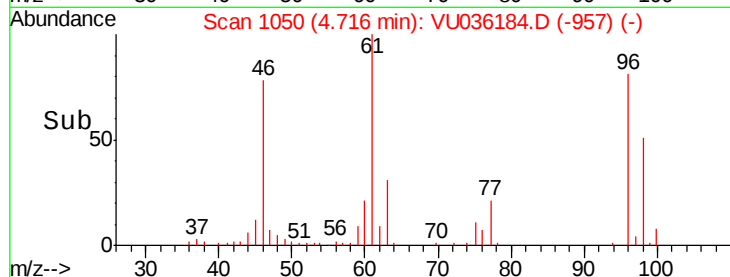
96 100

61 122.9 83.8 155.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036184.D (-957) (-)



#25

Chloroform

Concen: 0.740 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU036184.D

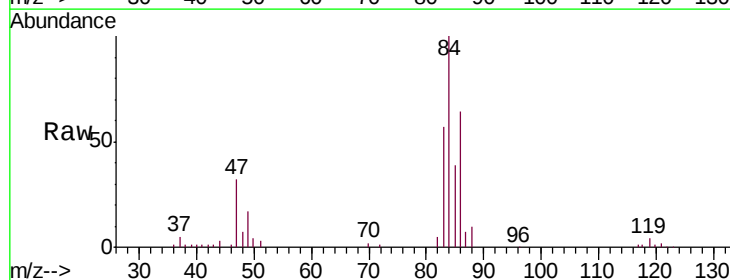
Acq: 13 Dec 2019 06:05

Tgt Ion: 83 Resp: 28975

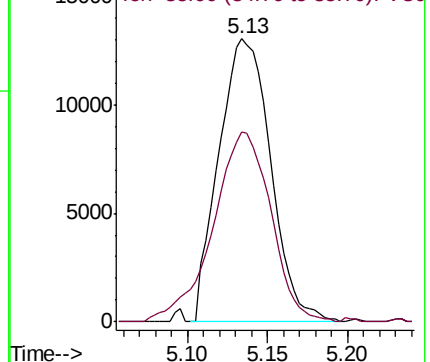
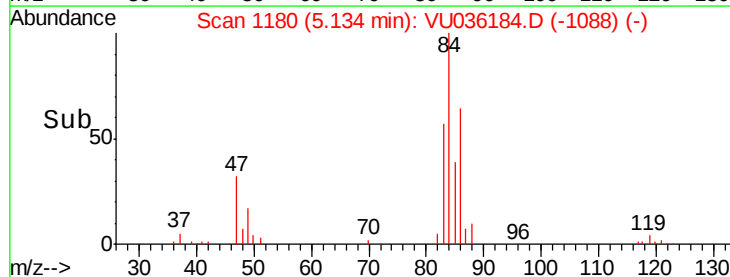
Ion Ratio Lower Upper

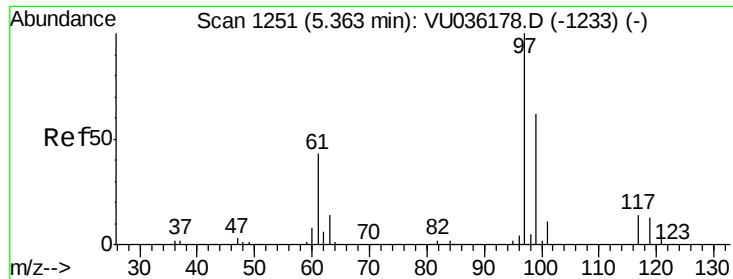
83 100

85 67.3 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU036184.D (-1088) (-)

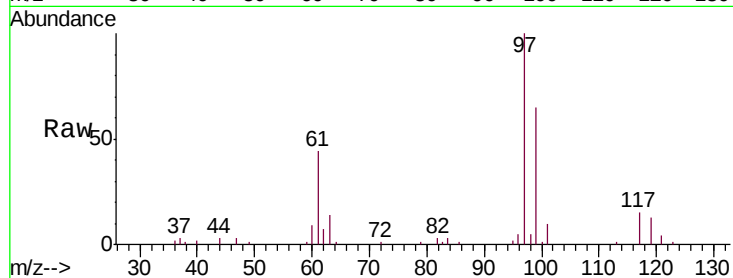




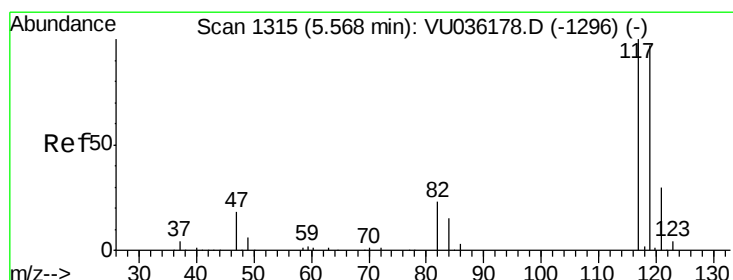
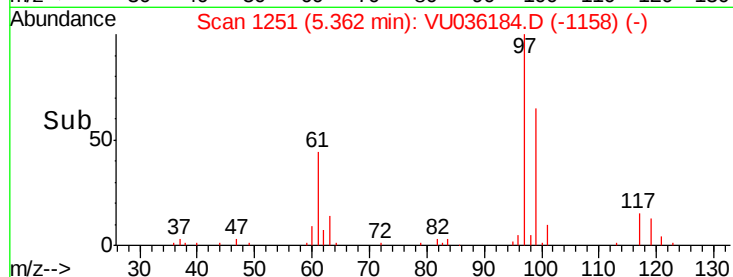
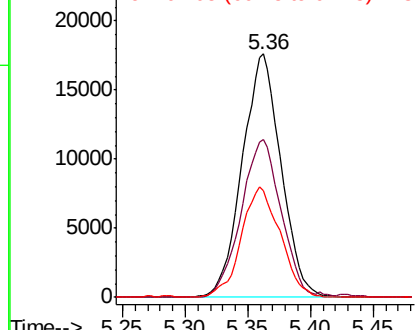
#29
 1,1,1-Trichloroethane
 Concen: 1.084 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. -0.00 min
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 MSVOA_U
 ClientSampleId :
 BFQW5

Tgt Ion: 97 Resp: 37975
 Ion Ratio Lower Upper
 97 100
 99 66.3 52.6 79.0
 61 45.5 35.4 53.2

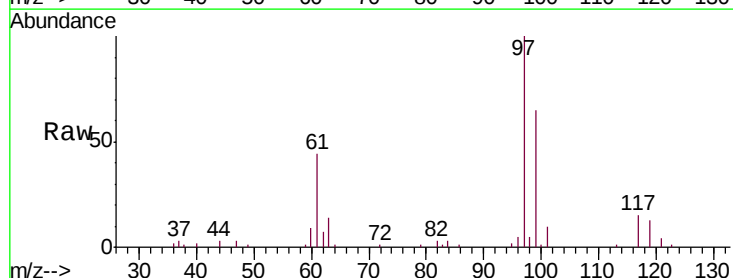


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

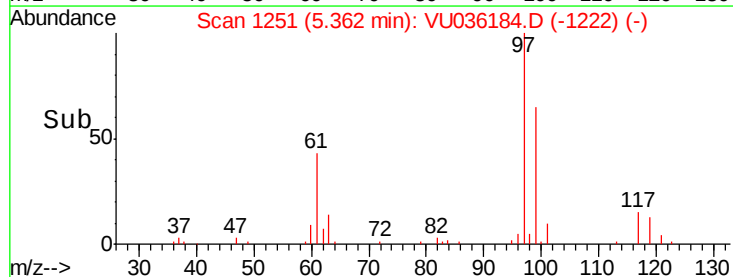
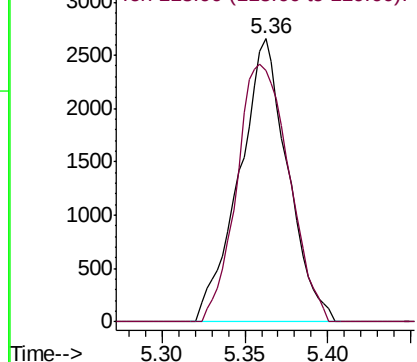


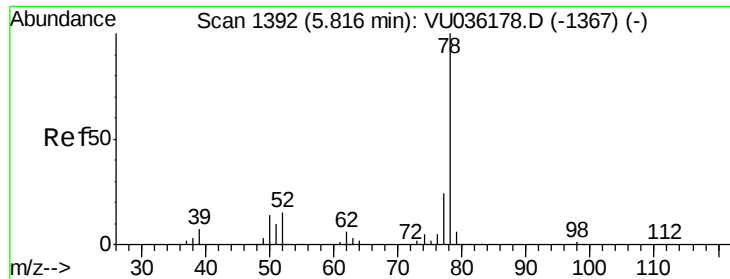
#31
 Carbon tetrachloride
 Concen: 0.172 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. -0.21 min
 Lab File: VU036184.D
 Acq: 13 Dec 2019 06:05

Tgt Ion: 117 Resp: 5408
 Ion Ratio Lower Upper
 117 100
 119 98.2 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: 0.832 ug/L

RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

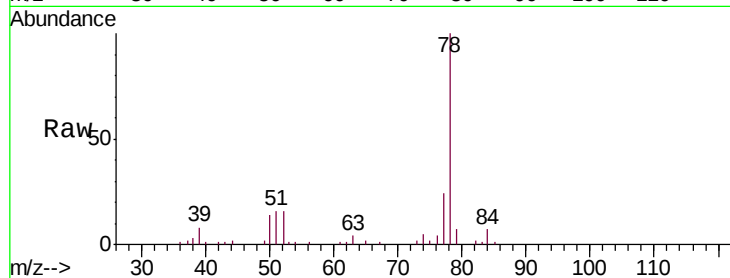
Instrument :

MSVOA_U

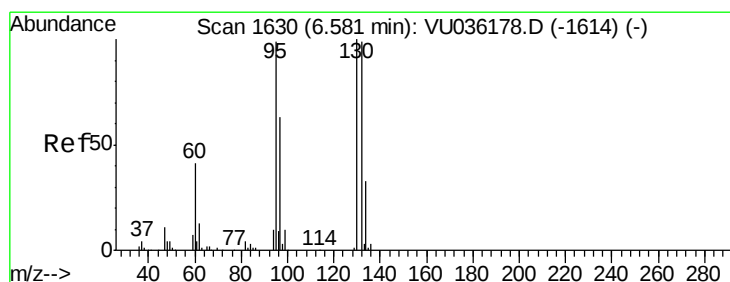
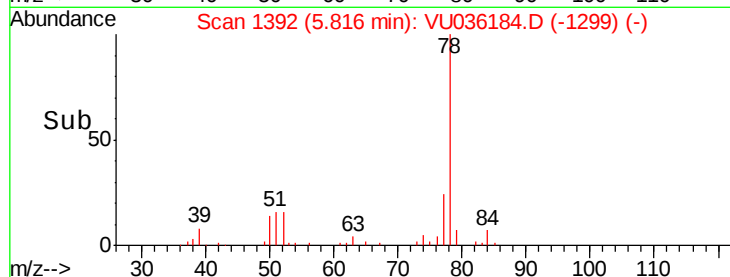
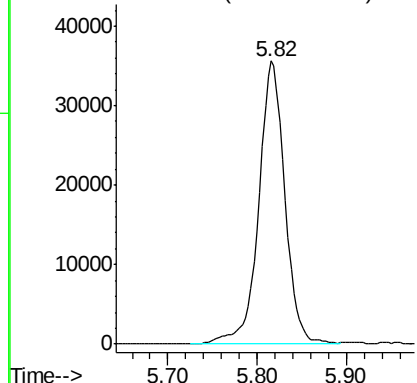
ClientSampleId :

BFQW5

Tgt Ion: 78 Resp: 73124



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.272 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

Tgt Ion: 95 Resp: 6120

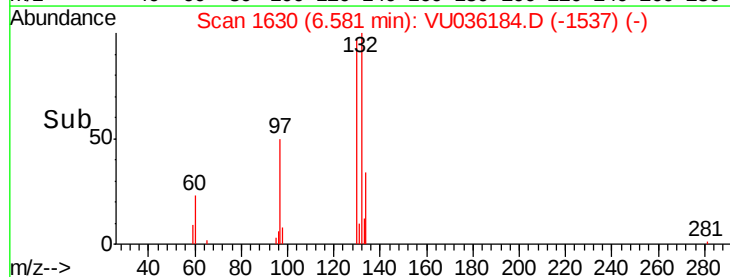
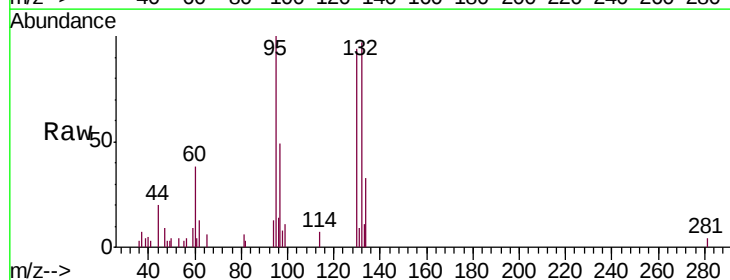
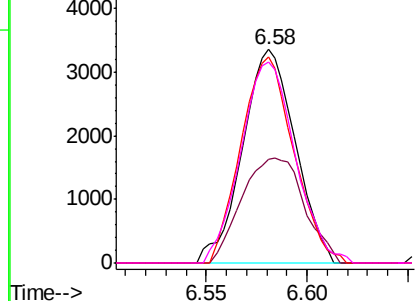
Ion	Ratio	Lower	Upper
95	100		
97	48.7	43.7	81.1
132	96.8	71.7	133.3
130	94.1	73.1	135.7

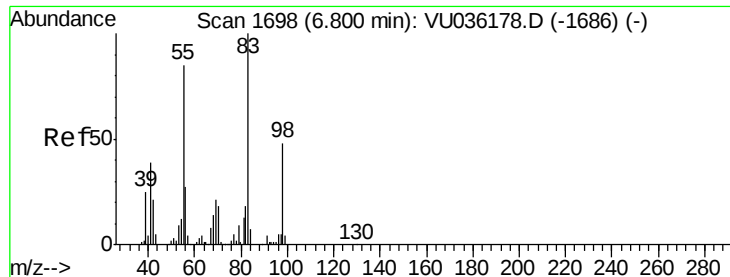
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

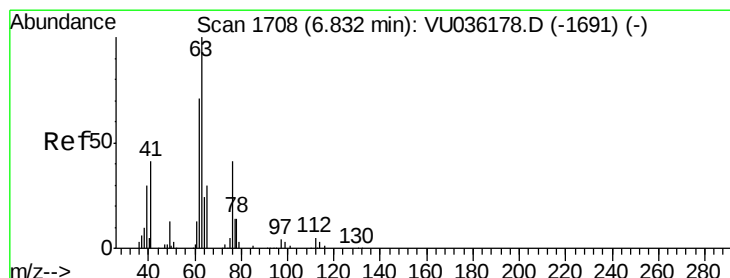
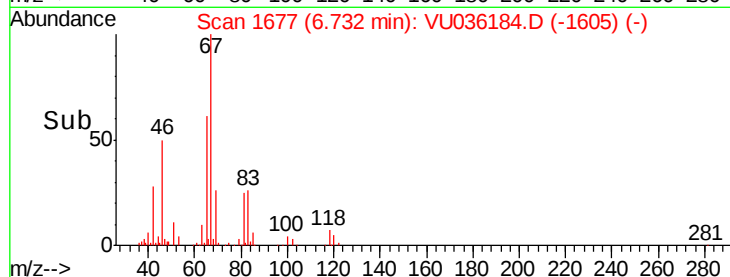
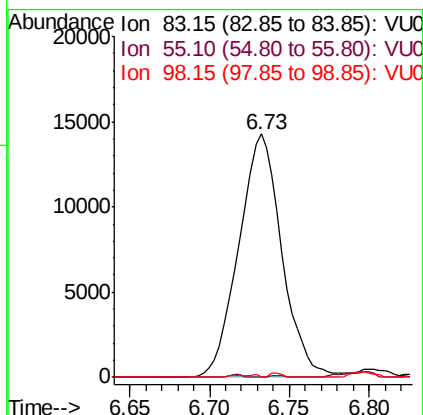
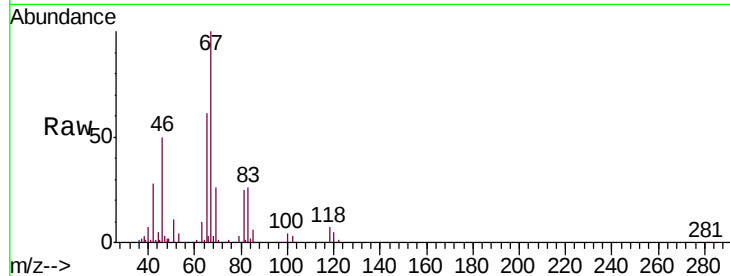




#35
Methylcyclohexane
Concen: 0.817 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.07 min
Lab File: VU036184.D
Acq: 13 Dec 2019 06:05

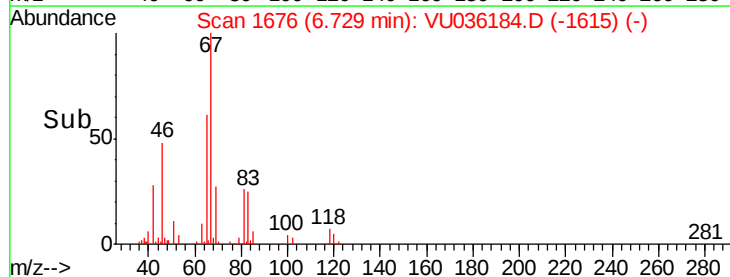
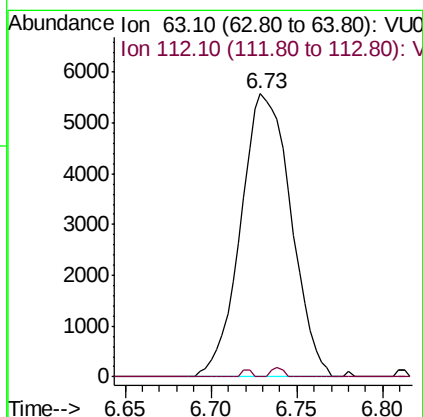
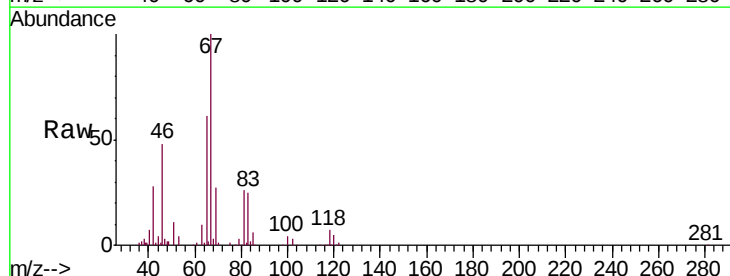
Instrument :
MSVOA_U
ClientSampleId :
BFQW5

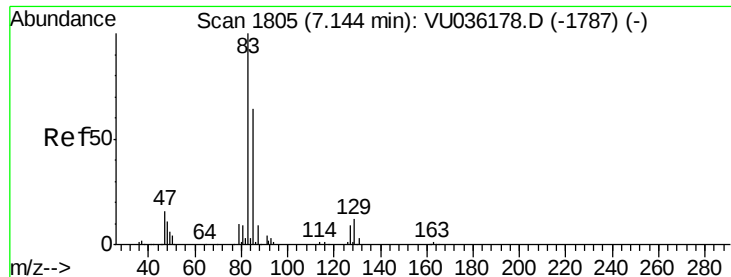
Tgt Ion: 83 Resp: 26167
Ion Ratio Lower Upper
83 100
55 0.3 61.9 92.9#
98 0.5 35.8 53.6#



#37
1,2-Dichloropropane
Concen: 0.499 ug/L
RT: 6.73 min Scan# 1676
Delta R.T. -0.10 min
Lab File: VU036184.D
Acq: 13 Dec 2019 06:05

Tgt Ion: 63 Resp: 11327
Ion Ratio Lower Upper
63 100
112 0.8 3.6 5.4#

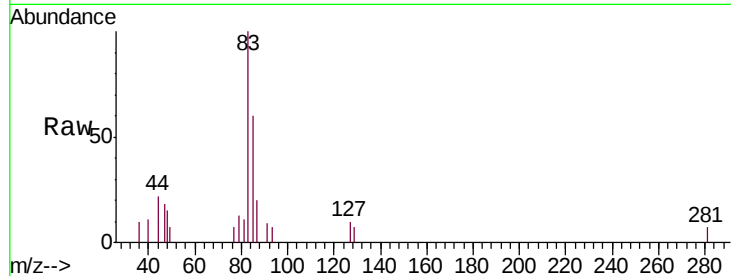




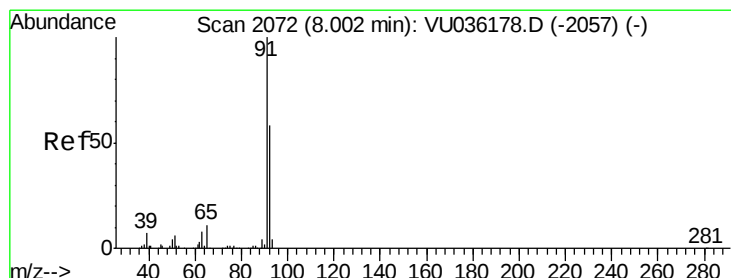
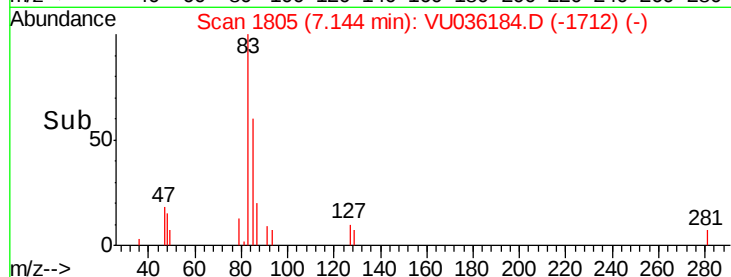
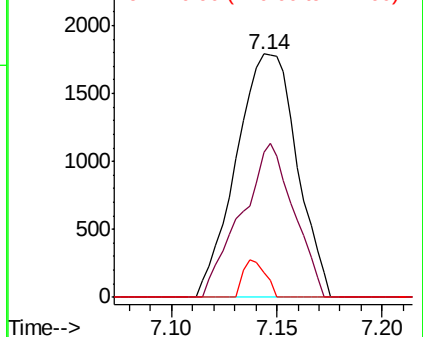
#38
 Bromodichloromethane
 Concen: 0.124 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU036184.D
 Acq: 13 Dec 2019 06:05

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW5

Tgt Ion: 83 Resp: 3582
 Ion Ratio Lower Upper
 83 100
 85 59.6 44.7 83.1
 127 10.0 7.4 11.0

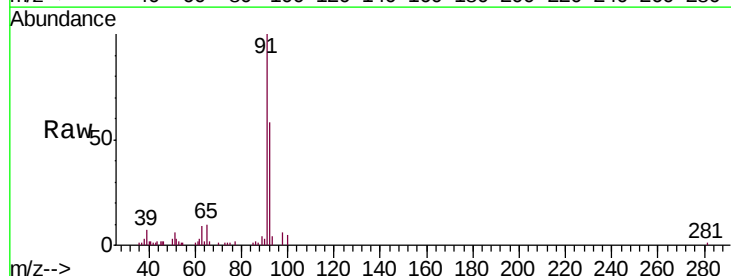


Abundance Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0
 Ion 126.90 (126.60 to 127.60): V

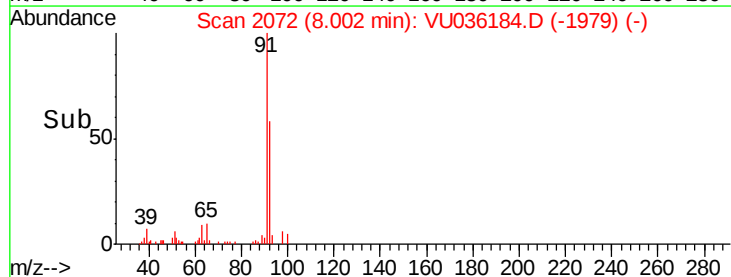
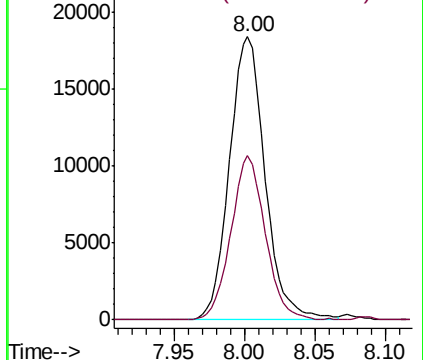


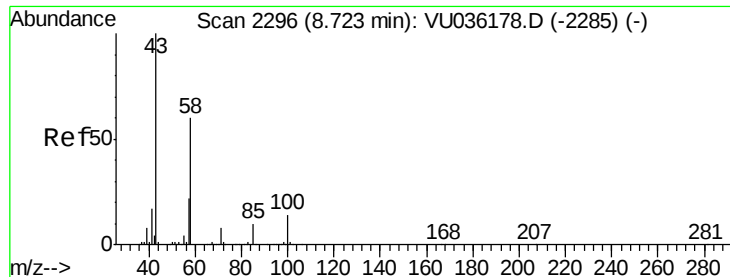
#42
 Toluene
 Concen: 0.350 ug/L
 RT: 8.00 min Scan# 2072
 Delta R.T. -0.00 min
 Lab File: VU036184.D
 Acq: 13 Dec 2019 06:05

Tgt Ion: 91 Resp: 32605
 Ion Ratio Lower Upper
 91 100
 92 58.2 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU0
 Ion 92.15 (91.85 to 92.85): VU0

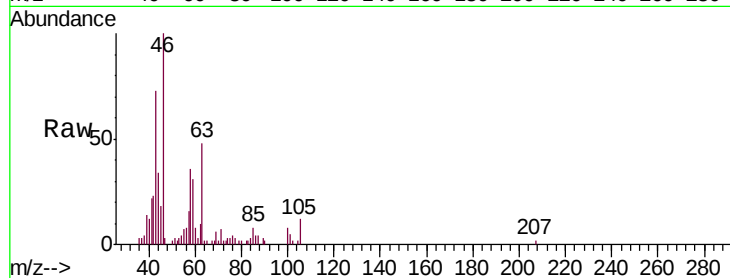




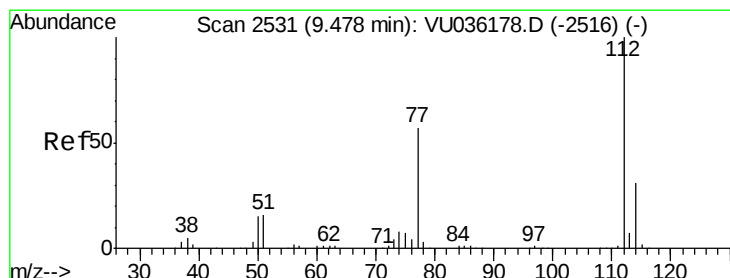
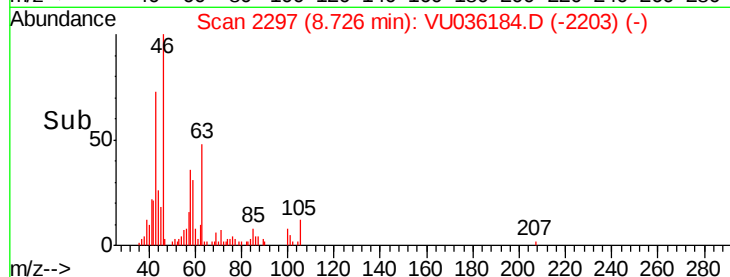
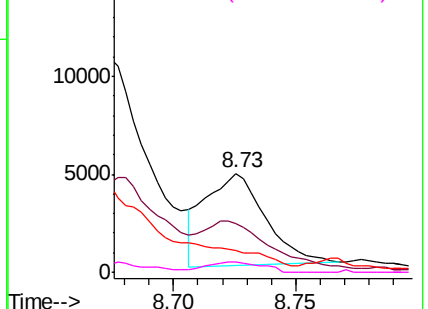
#48
2-Hexanone
Concen: 0.960 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036184.D
Acq: 13 Dec 2019 06:05

Instrument :
MSVOA_U
ClientSampleId :
BFQW5

Tgt Ion: 43 Resp: 8064
Ion Ratio Lower Upper
43 100
58 59.9 48.6 72.8
57 11.8 16.7 25.1#
100 10.7 10.6 15.8

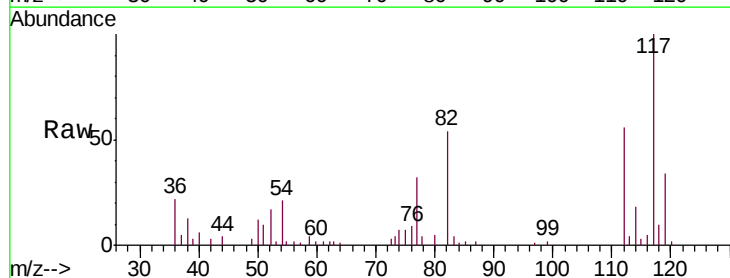


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

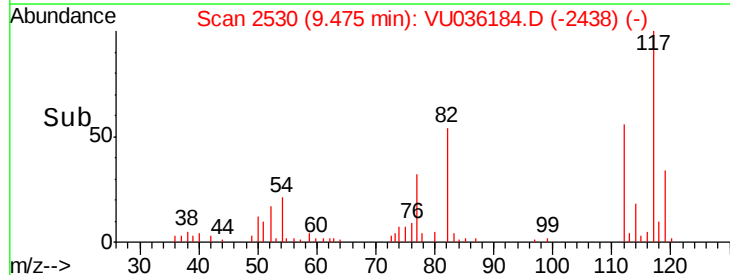
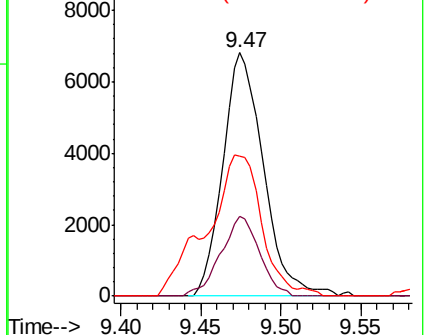


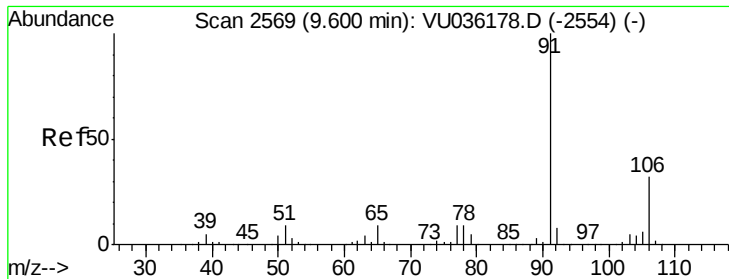
#51
Chlorobenzene
Concen: 0.195 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036184.D
Acq: 13 Dec 2019 06:05

Tgt Ion: 112 Resp: 11819
Ion Ratio Lower Upper
112 100
114 32.7 22.2 41.2
77 57.5 45.7 68.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU0





#52

Ethylbenzene

Concen: 0.077 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

Instrument :

MSVOA_U

ClientSampleId :

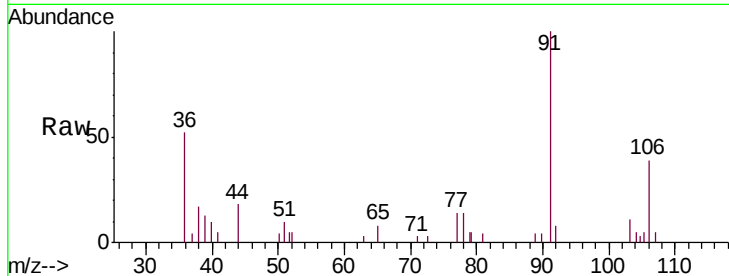
BFQW5

Tgt Ion: 91 Resp: 6967

Ion Ratio Lower Upper

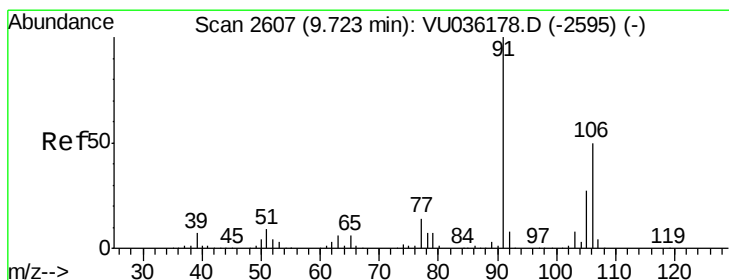
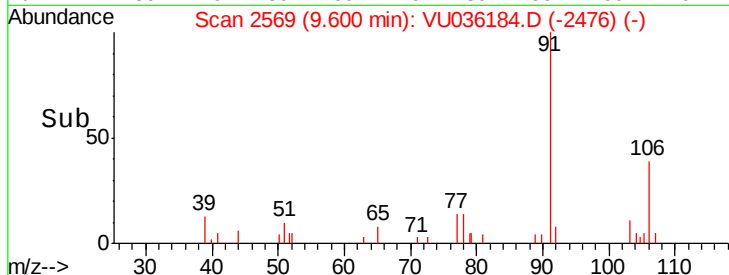
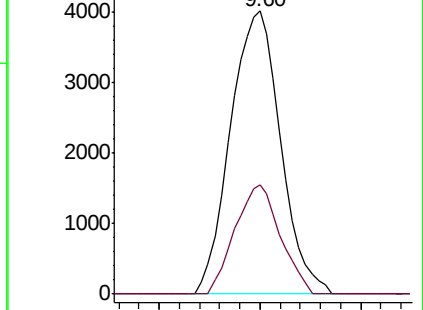
91 100

106 38.6 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: 0.197 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036184.D

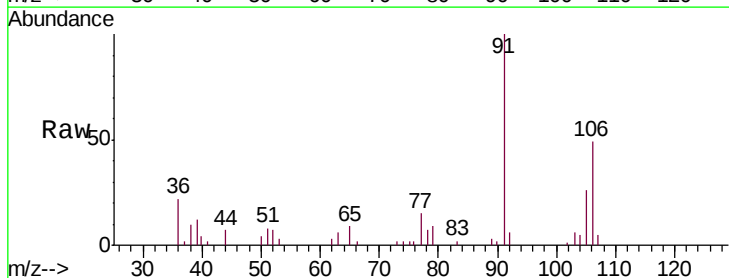
Acq: 13 Dec 2019 06:05

Tgt Ion: 106 Resp: 7005

Ion Ratio Lower Upper

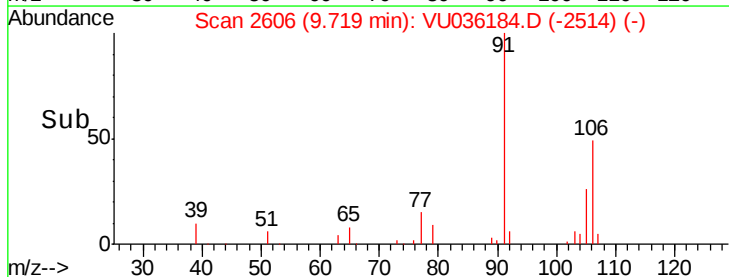
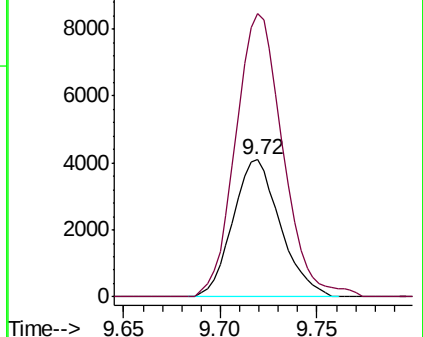
106 100

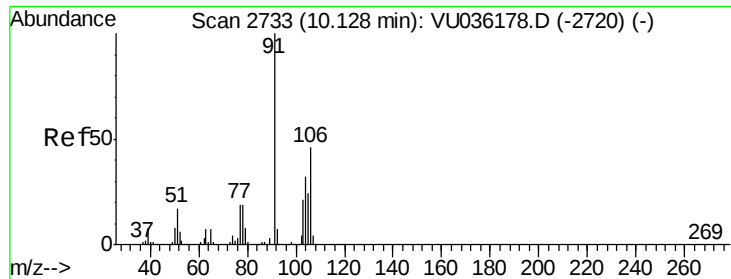
91 206.2 140.4 260.8



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

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

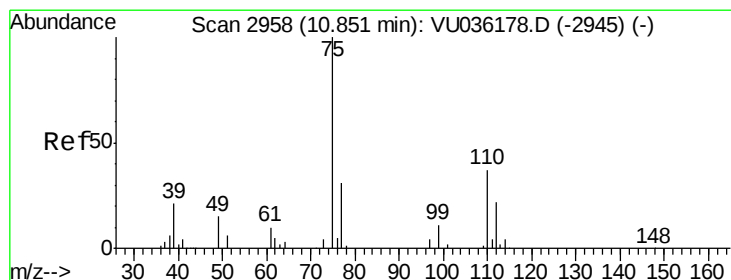
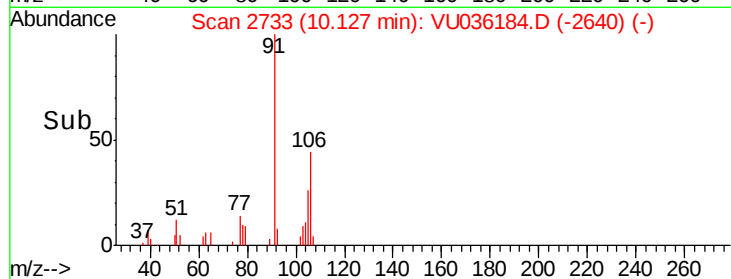
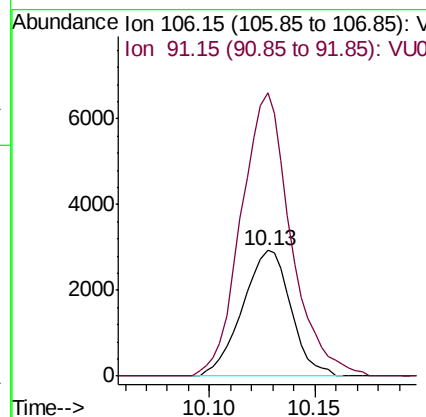
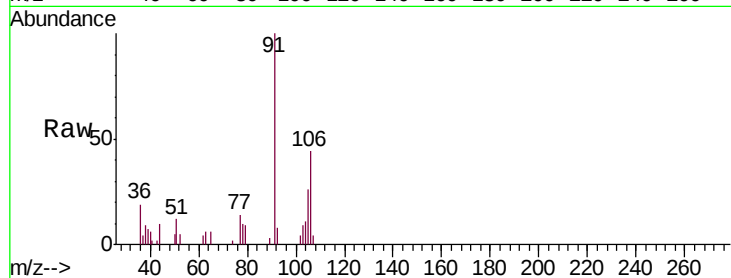




#54
o-Xylene
Concen: 0.138 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036184.D
Acq: 13 Dec 2019 06:05

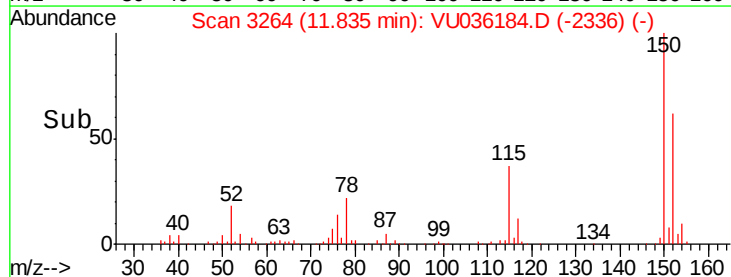
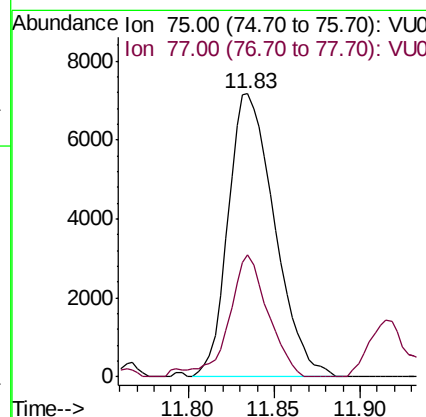
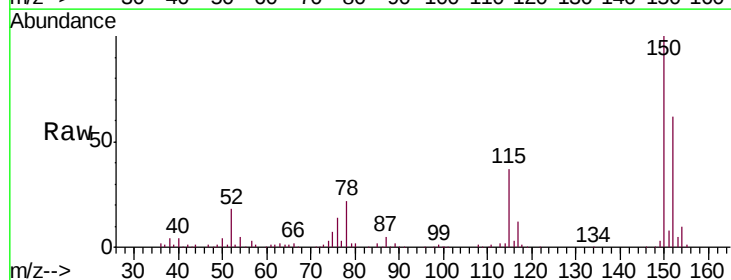
Instrument :
MSVOA_U
ClientSampleId :
BFQW5

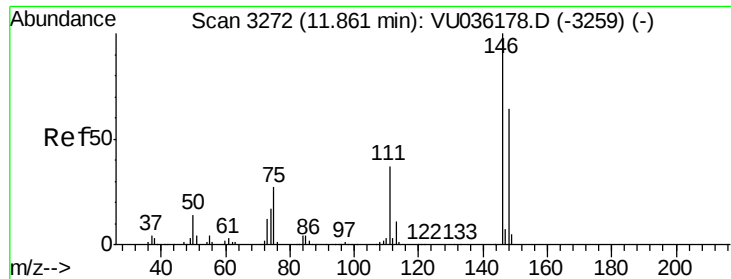
Tgt Ion:106 Resp: 4674
Ion Ratio Lower Upper
106 100
91 225.5 148.5 275.7



#59
1,2,3-Trichloropropane
Concen: 0.905 ug/L
RT: 11.83 min Scan# 3264
Delta R.T. 0.98 min
Lab File: VU036184.D
Acq: 13 Dec 2019 06:05

Tgt Ion: 75 Resp: 13524
Ion Ratio Lower Upper
75 100
77 35.5 26.6 39.8

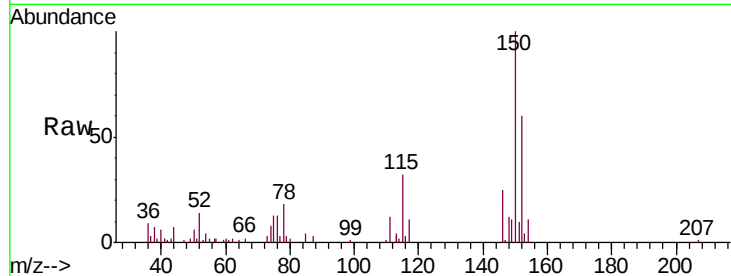




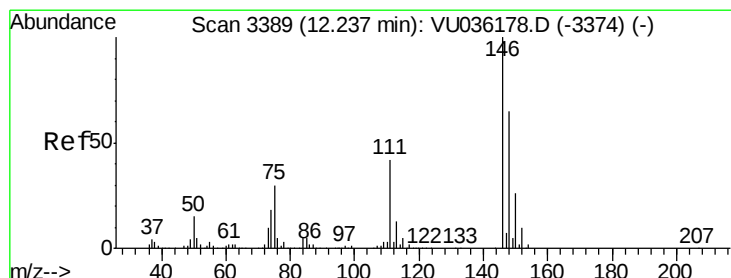
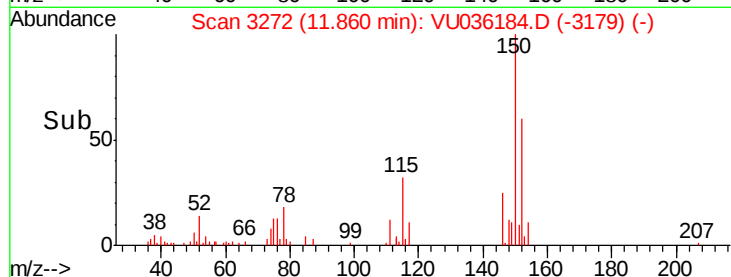
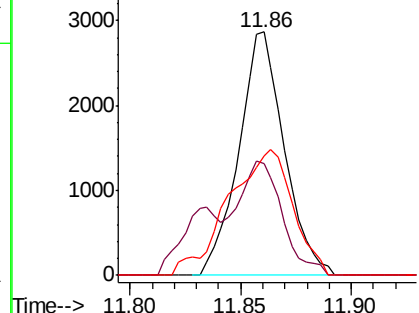
#63
 1,4-Dichlorobenzene
 Concen: 0.112 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. -0.00 min
 Lab File: VU036184.D
 Acq: 13 Dec 2019 06:05

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW5

Tgt Ion:146 Resp: 4119
 Ion Ratio Lower Upper
 146 100
 111 45.7 27.5 51.1
 148 49.0 45.4 84.2

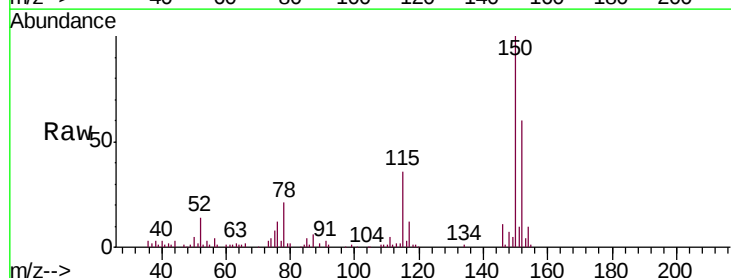


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

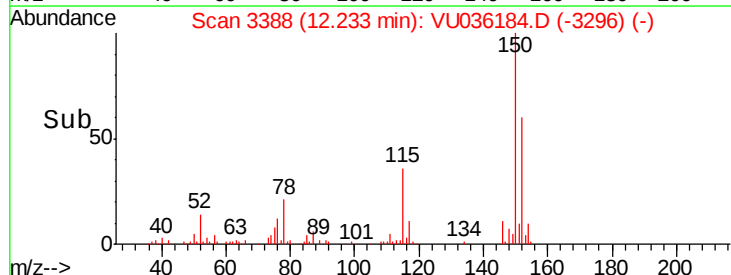
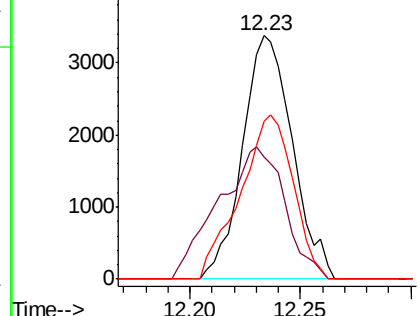


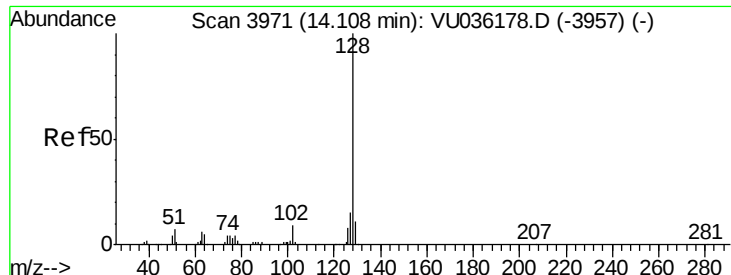
#65
 1,2-Dichlorobenzene
 Concen: 0.146 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036184.D
 Acq: 13 Dec 2019 06:05

Tgt Ion:146 Resp: 5285
 Ion Ratio Lower Upper
 146 100
 111 50.0 33.3 49.9#
 148 64.6 52.2 78.2



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





#69

Naphthalene

Concen: 0.283 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU036184.D

Acq: 13 Dec 2019 06:05

Instrument :

MSVOA_U

ClientSampleId :

BFQW5

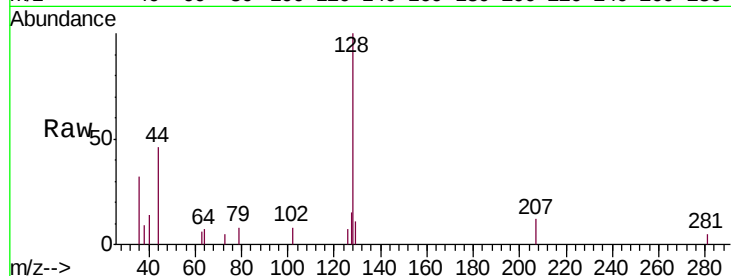
Tgt Ion:128 Resp: 3724

Ion Ratio Lower Upper

128 100

129 6.9 8.8 13.2#

127 13.8 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

