

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051420\
 Data File : VU038162.D
 Acq On : 14 May 2020 12:28
 Operator : JC/MD
 Sample : L2630-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX12

Quant Time: May 15 12:24:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 15 01:05:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	349762	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	340506	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	163477	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	112488	3.52	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.40%
7) Chloroethane-d5	1.93	69	108666	3.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.60%
11) 1,1-Dichloroethene-d2	2.59	63	152025	2.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.80%#
20) 2-Butanone-d5	4.68	46	443256	56.16	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.32%
24) Chloroform-d	5.10	84	213602	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.00%
26) 1,2-Dichloroethane-d4	5.74	65	130692	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.76	84	451955	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
36) 1,2-Dichloropropane-d6	6.72	67	151495	4.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.00%
41) Toluene-d8	7.92	98	389478	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.00%
43) trans-1,3-Dichloropropene-	8.20	79	54626	4.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.80%
46) 2-Hexanone-d5	8.65	63	360127	57.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.62%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	125805	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.80%
64) 1,2-Dichlorobenzene-d4	12.20	152	148209	4.66	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.20%

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	220913	5.848	ug/L 99
18) trans-1,2-Dichloroethene	3.38	96	5779	0.218	ug/L 97
19) 1,1-Dichloroethane	3.91	63	169838	3.281	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	149505	5.235	ug/L 99
25) Chloroform	5.13	83	25717	0.533	ug/L 97
27) 1,2-Dichloroethane	5.83	62	24840	0.729	ug/L 98
29) 1,1,1-Trichloroethane	5.35	97	15137	0.388	ug/L 91
30) Cyclohexane	5.42	56	11409	0.248	ug/L 99
33) Benzene	5.81	78	45357	0.416	ug/L 100
34) Trichloroethene	6.57	95	6772	0.248	ug/L 96
45) 1,1,2-Trichloroethane	8.42	97	12457	0.606	ug/L 97
51) Chlorobenzene	9.47	112	83334	1.167	ug/L 99
54) o-Xylene	10.11	106	7581	0.164	ug/L 87
62) 1,3-Dichlorobenzene	11.76	146	6452	0.121	ug/L 91
63) 1,4-Dichlorobenzene	11.85	146	11669	0.217	ug/L 95
65) 1,2-Dichlorobenzene	12.22	146	5776	0.113	ug/L # 80
68) 1,2,4-trichlorobenzene	13.86	180	3056	0.087	ug/L 95

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 15 01:05:40 2020
Response via : Initial Calibration

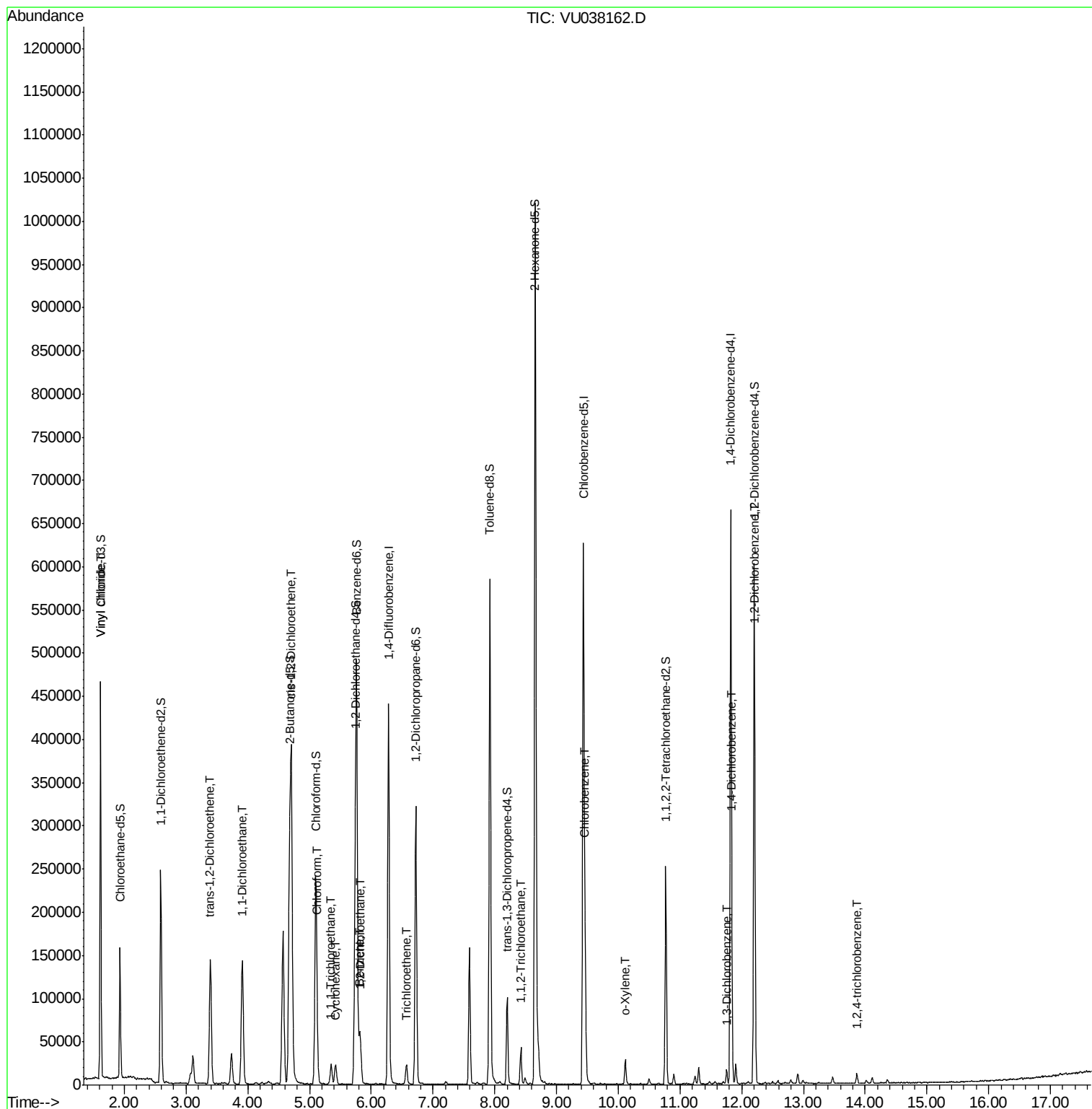
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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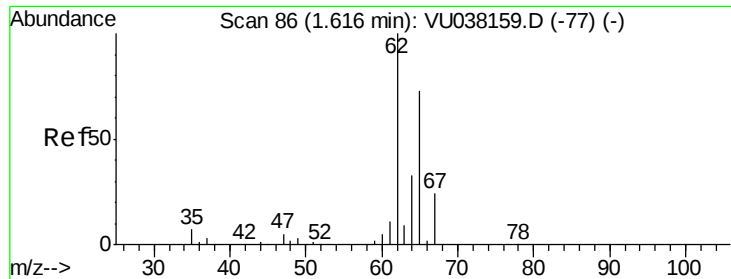
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VU038162.D
Acq On : 14 May 2020 12:28
Operator : JC/MD
Sample : L2630-04
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QLast Update : Fri May 15 01:05:40 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 5.848 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038162.D

Acq: 14 May 2020 12:28

Instrument :

MSVOA_U

ClientSampleId :

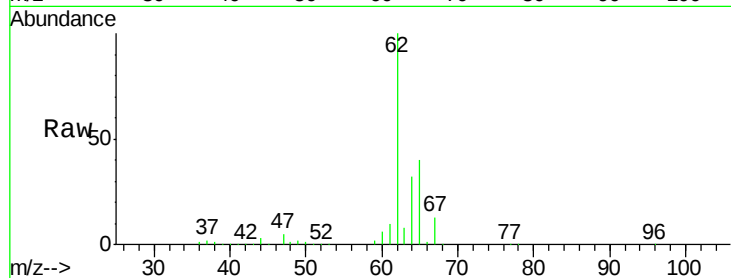
BFX12

Tot Ion: 62 Resp: 220913

Ion Ratio Lower Upper

62 100

64 32.1 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU038159.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU038159.D (-77) (-)

1.62

200000

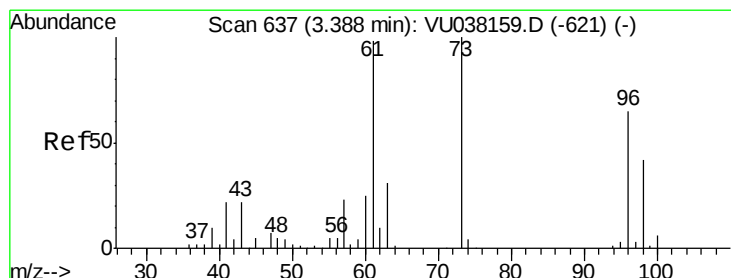
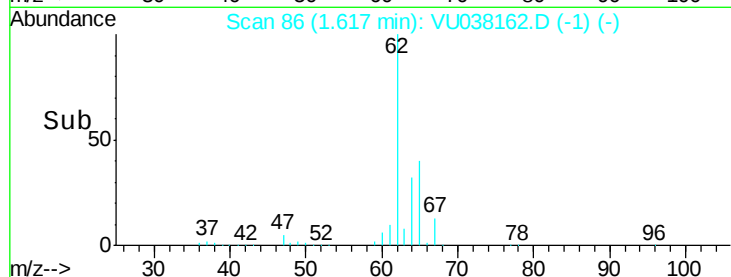
150000

100000

50000

0

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.218 ug/L

RT: 3.38 min Scan# 635

Delta R.T. -0.01 min

Lab File: VU038162.D

Acq: 14 May 2020 12:28

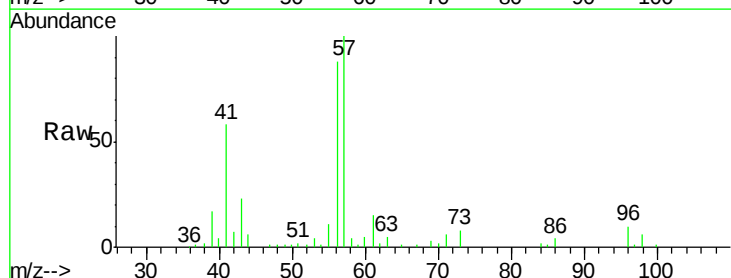
Tgt Ion: 96 Resp: 5779

Ion Ratio Lower Upper

96 100

61 143.7 102.1 189.5

98 61.7 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU038159.D (-621) (-)

Ion 61.05 (60.75 to 61.75): VU038159.D (-621) (-)

Ion 97.95 (97.65 to 98.65): VU038159.D (-621) (-)

3.38

5000

4000

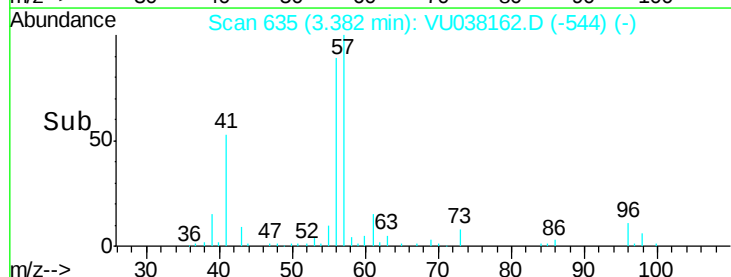
3000

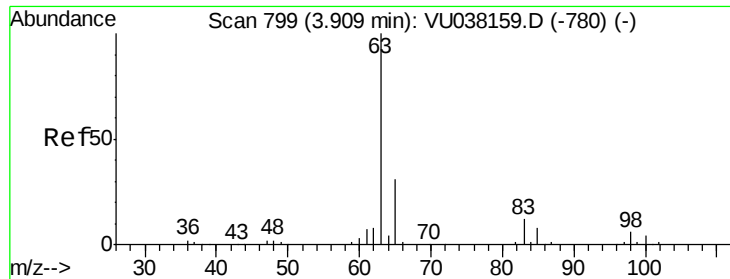
2000

1000

0

Time-->

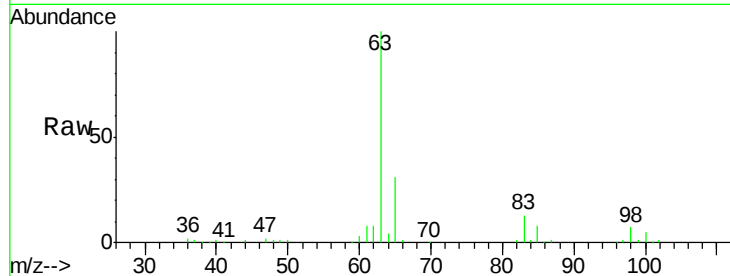




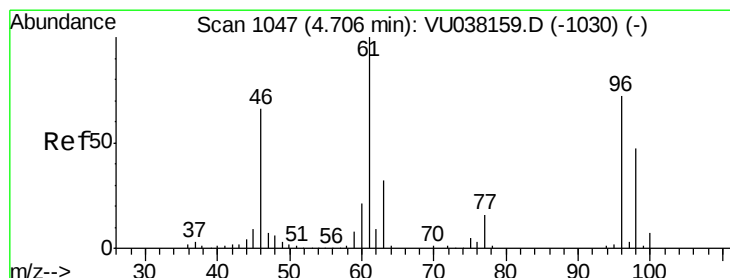
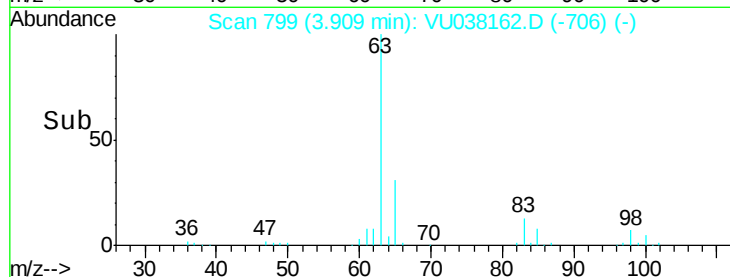
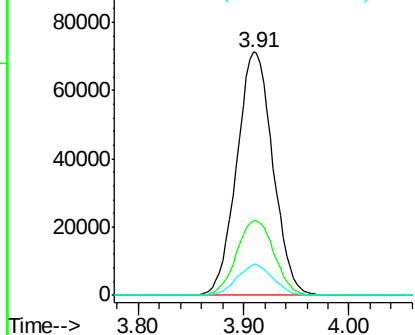
#19
 1,1-Dichloroethane
 Concen: 3.281 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VU038162.D
 Acq: 14 May 2020 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX12

Tot Ion: 63 Resp: 169838
 Ion Ratio Lower Upper
 63 100
 65 30.6 22.5 41.7
 83 12.6 8.9 16.5

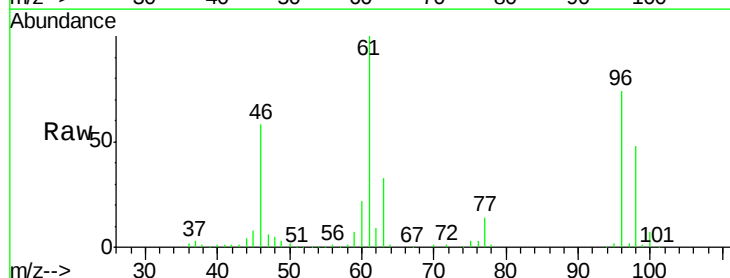


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

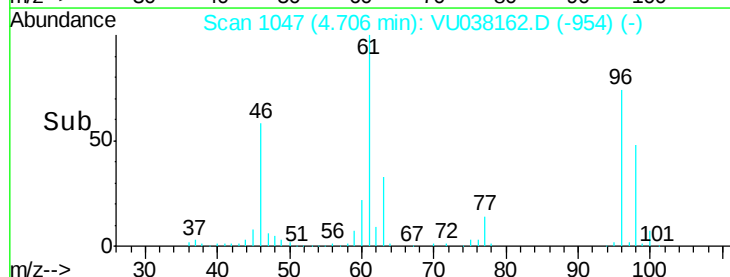
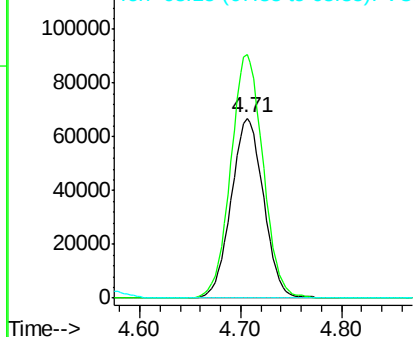


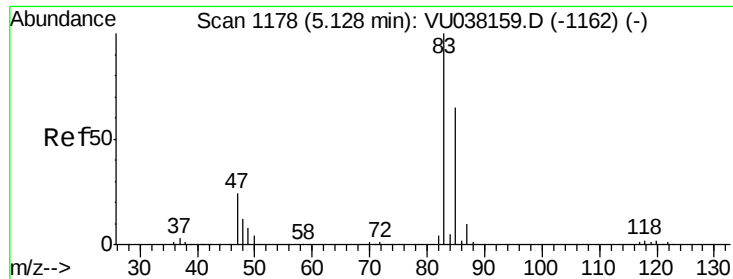
#22
 cis-1,2-Dichloroethene
 Concen: 5.235 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU038162.D
 Acq: 14 May 2020 12:28

Tgt Ion: 96 Resp: 149505
 Ion Ratio Lower Upper
 96 100
 61 135.5 95.3 176.9
 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

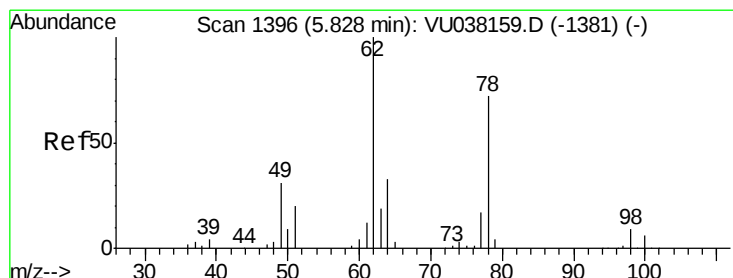
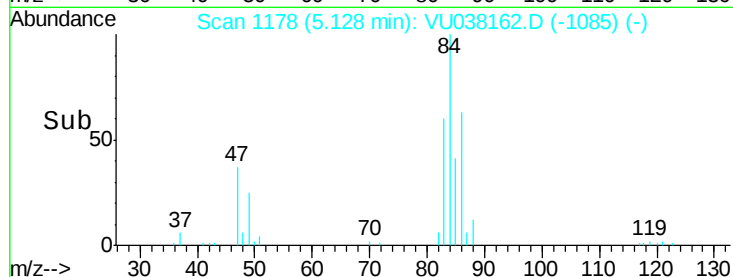
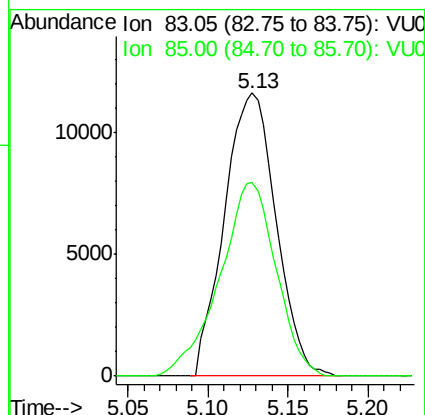
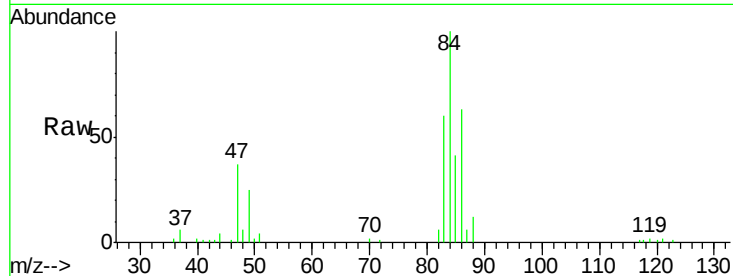




#25
Chloroform
Concen: 0.533 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038162.D
Acq: 14 May 2020 12:28

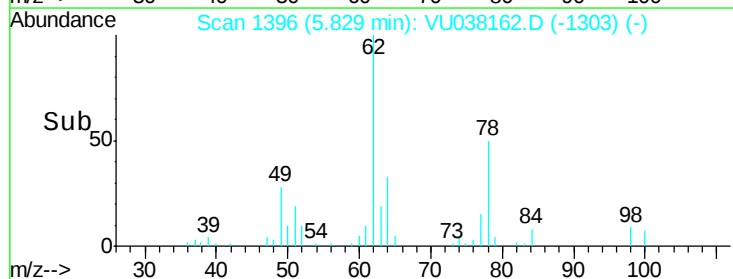
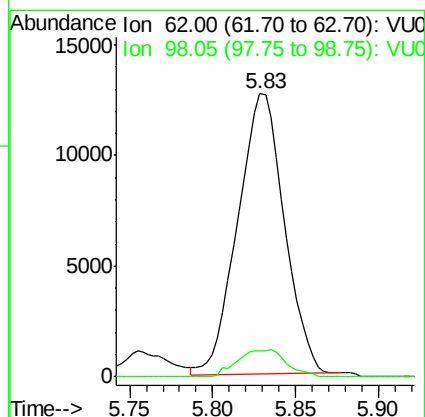
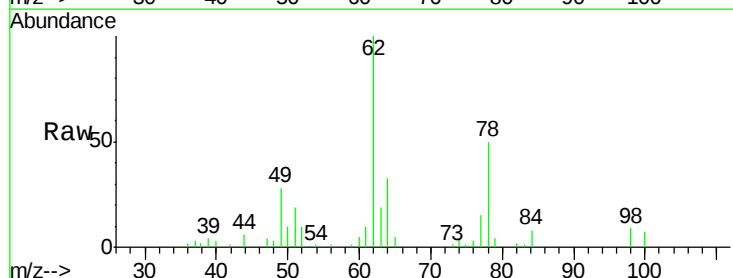
Instrument :
MSVOA_U
ClientSampled :
BFX12

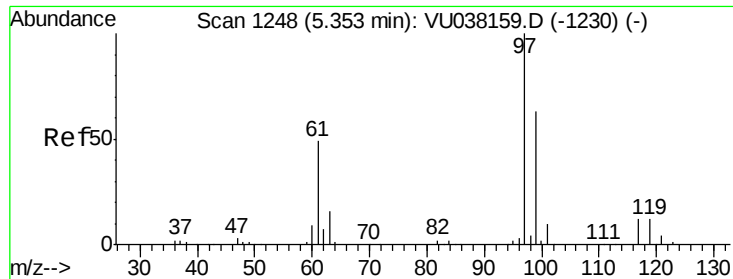
Tot Ion: 83 Resp: 25717
Ion Ratio Lower Upper
83 100
85 68.3 46.2 85.8



#27
1,2-Dichloroethane
Concen: 0.729 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038162.D
Acq: 14 May 2020 12:28

Tgt Ion: 62 Resp: 24840
Ion Ratio Lower Upper
62 100
98 9.0 7.8 11.8

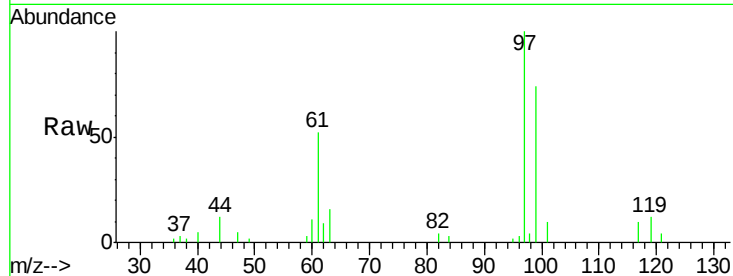




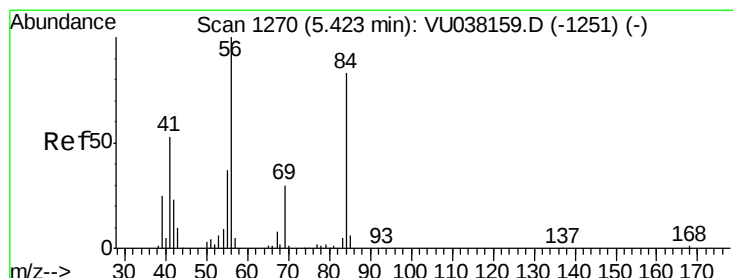
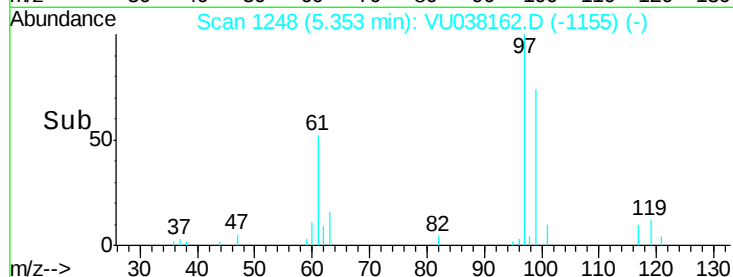
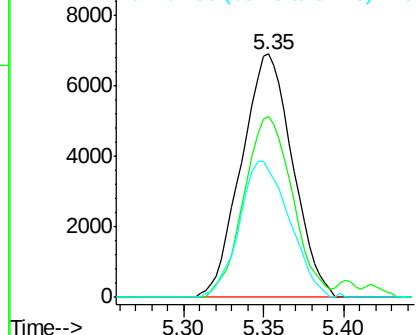
#29
 1,1,1-Trichloroethane
 Concen: 0.388 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038162.D
 Acq: 14 May 2020 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX12

Tot Ion: 97 Resp: 15137
 Ion Ratio Lower Upper
 97 100
 99 70.4 51.0 76.4
 61 54.5 38.2 57.4

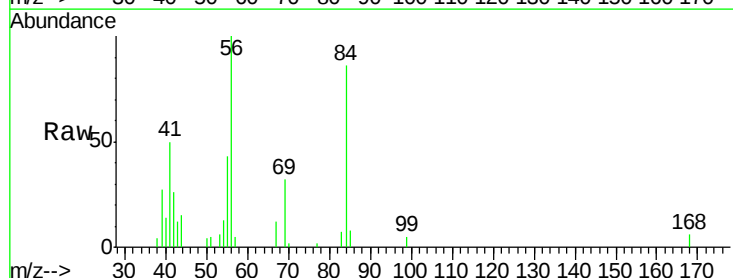


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

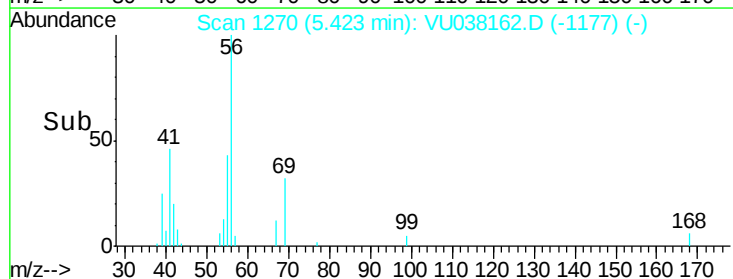
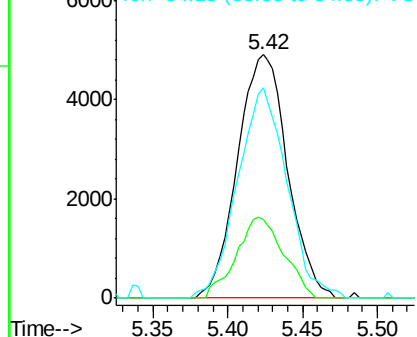


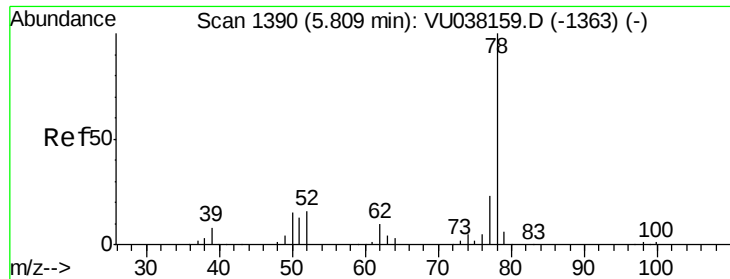
#30
 Cyclohexane
 Concen: 0.248 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU038162.D
 Acq: 14 May 2020 12:28

Tgt Ion: 56 Resp: 11409
 Ion Ratio Lower Upper
 56 100
 69 31.4 24.2 36.4
 84 85.4 68.5 102.7



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#33

Benzene

Concen: 0.416 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU038162.D

Acq: 14 May 2020 12:28

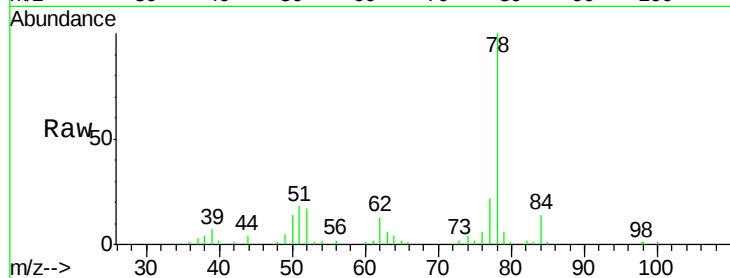
Instrument :

MSVOA_U

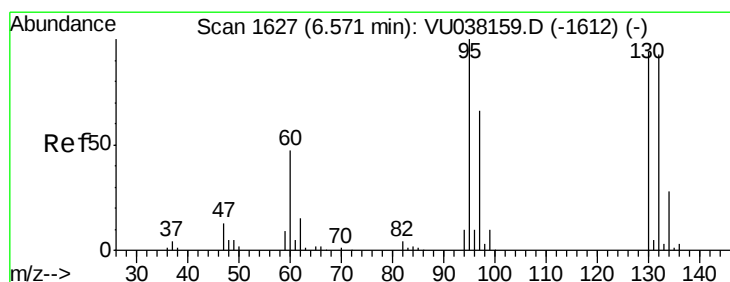
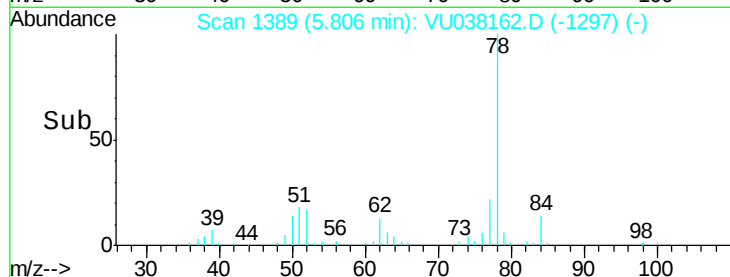
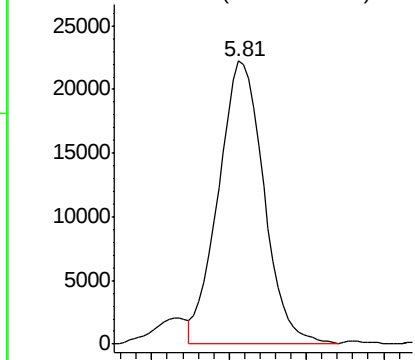
ClientSampleId :

BFX12

Tgt Ion: 78 Resp: 45357



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.248 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038162.D

Acq: 14 May 2020 12:28

Tgt Ion: 95 Resp: 6772

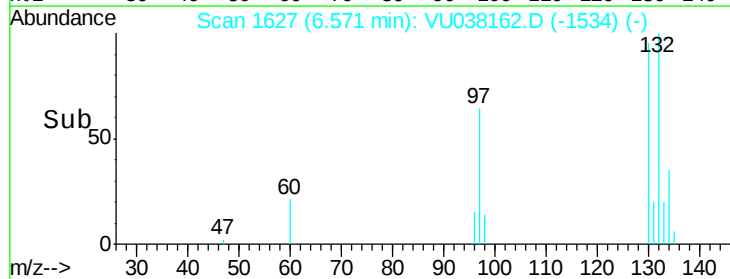
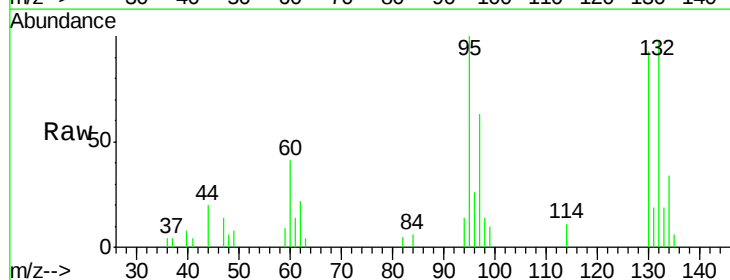
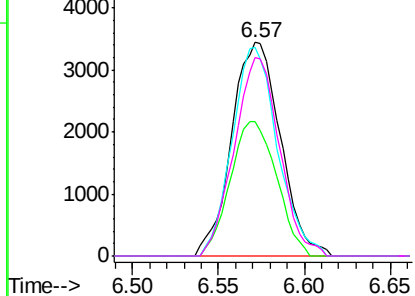
Ion	Ratio	Lower	Upper
95	100		
97	62.9	44.9	83.3
132	97.6	63.3	117.5
130	93.1	65.7	122.1

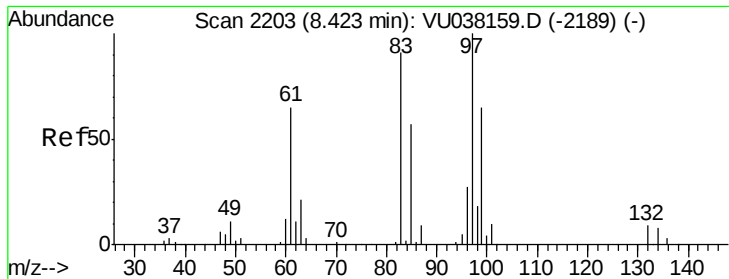
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

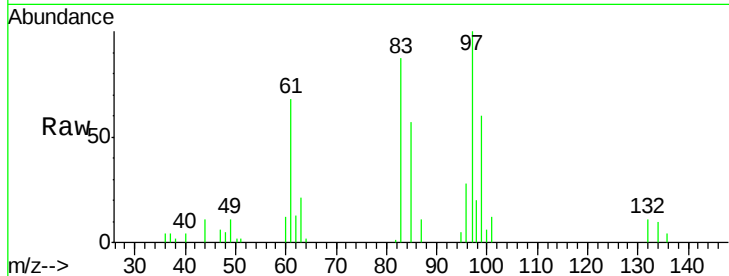




#45
 1,1,2-Trichloroethane
 Concen: 0.606 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU038162.D
 Acq: 14 May 2020 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX12

Tot Ion:	97	Resp:	12457
Ion	Ratio	Lower	Upper
97	100		
99	60.4	44.0	81.6
83	86.8	59.6	110.8
85	56.7	41.3	76.7

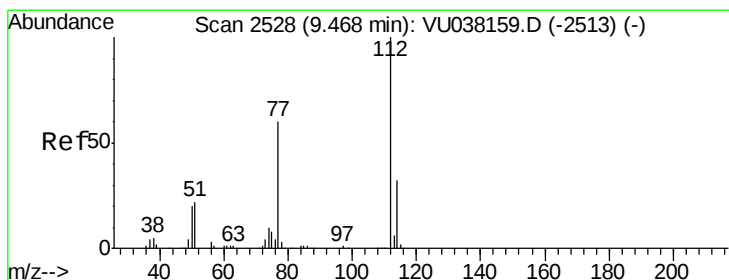
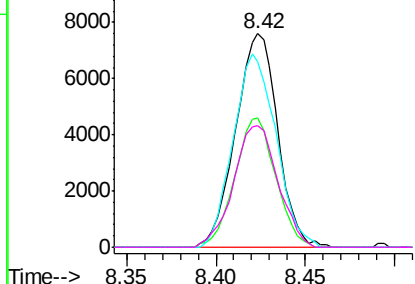
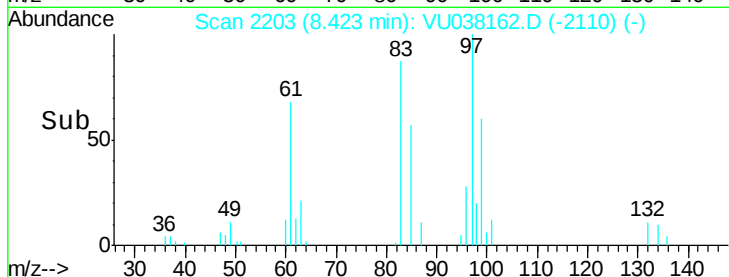


Abundance Ion 96.95 (96.65 to 97.65): VU038162.D (-2110) (-)

Ion 99.05 (98.75 to 99.75): VU038162.D (-2110) (-)

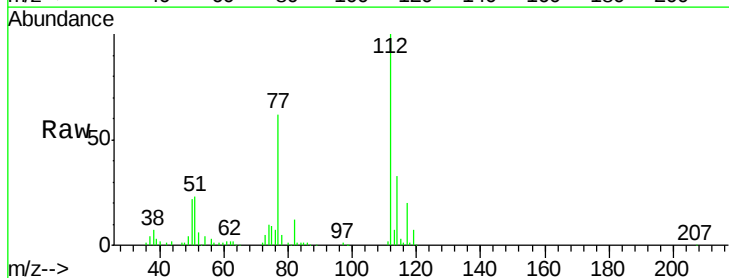
Ion 82.95 (82.65 to 83.65): VU038162.D (-2110) (-)

Ion 85.00 (84.70 to 85.70): VU038162.D (-2110) (-)



#51
 Chlorobenzene
 Concen: 1.167 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU038162.D
 Acq: 14 May 2020 12:28

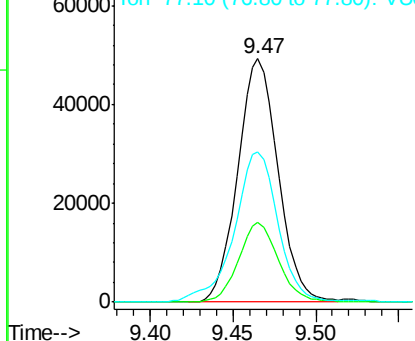
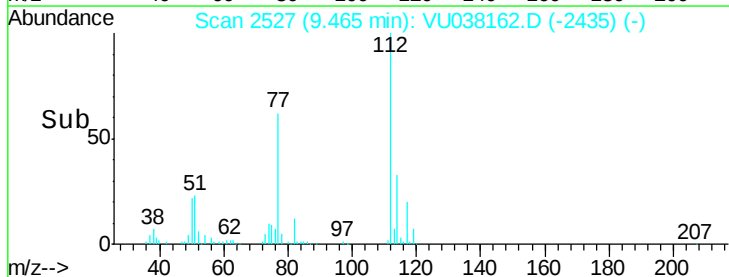
Tgt Ion:	112	Resp:	83334
Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.5	41.7
77	61.7	49.9	74.9

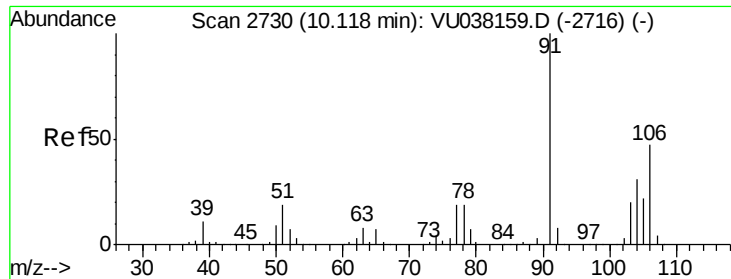


Abundance Ion 112.10 (111.80 to 112.80): VU038162.D (-2435) (-)

Ion 114.05 (113.75 to 114.75): VU038162.D (-2435) (-)

Ion 77.10 (76.80 to 77.80): VU038162.D (-2435) (-)

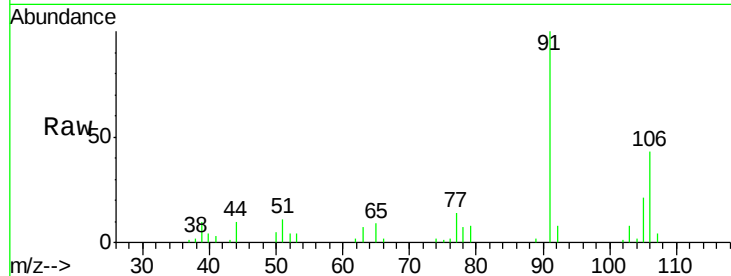




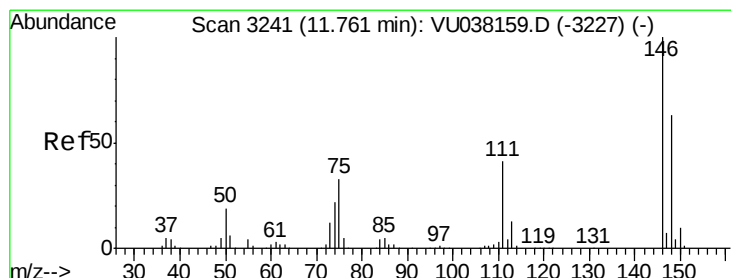
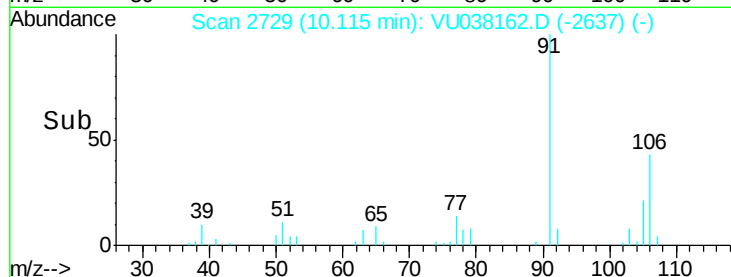
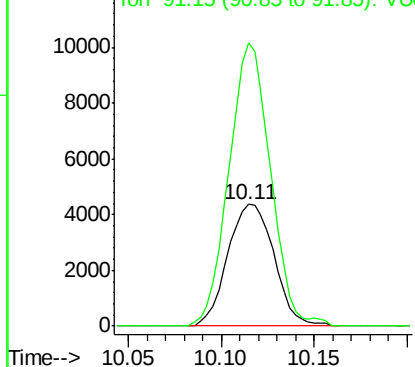
#54
o-Xylene
Concen: 0.164 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU038162.D
Acq: 14 May 2020 12:28

Instrument :
MSVOA_U
ClientSampleId :
BFX12

Tot Ion:106 Resp: 7581
Ion Ratio Lower Upper
106 100
91 232.7 148.5 275.9

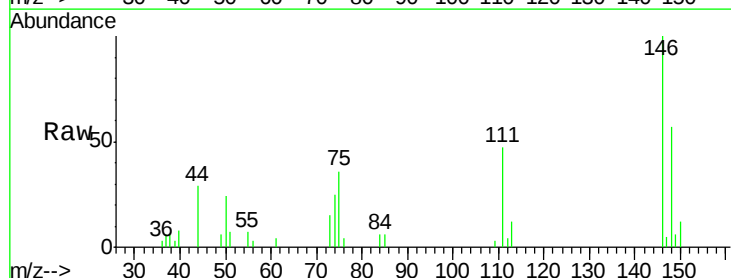


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

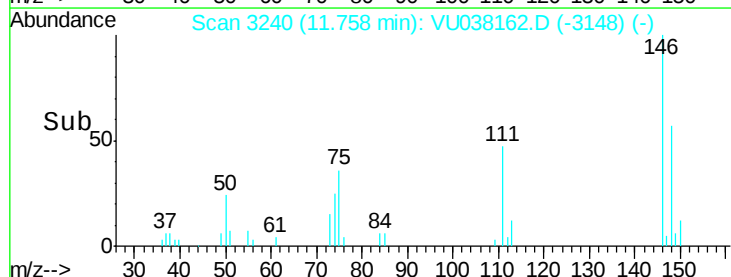
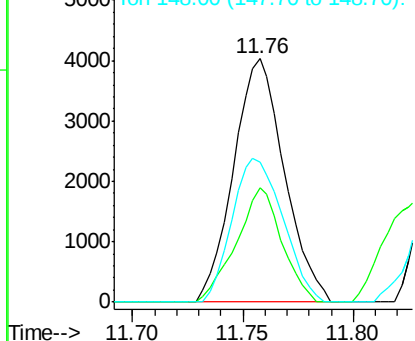


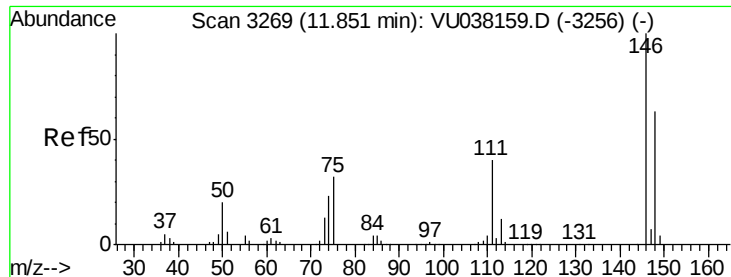
#62
1,3-Dichlorobenzene
Concen: 0.121 ug/L
RT: 11.76 min Scan# 3240
Delta R.T. -0.00 min
Lab File: VU038162.D
Acq: 14 May 2020 12:28

Tgt Ion:146 Resp: 6452
Ion Ratio Lower Upper
146 100
111 46.8 28.6 53.2
148 57.3 45.2 84.0



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: 0.217 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038162.D

Acq: 14 May 2020 12:28

Instrument :

MSVOA_U

ClientSampled :

BFX12

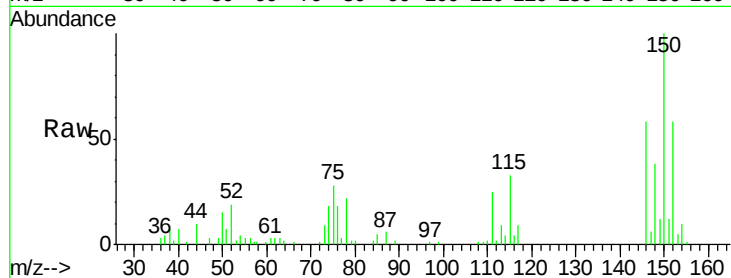
Tot Ion:146 Resp: 11669

Ion Ratio Lower Upper

146 100

111 42.6 27.2 50.6

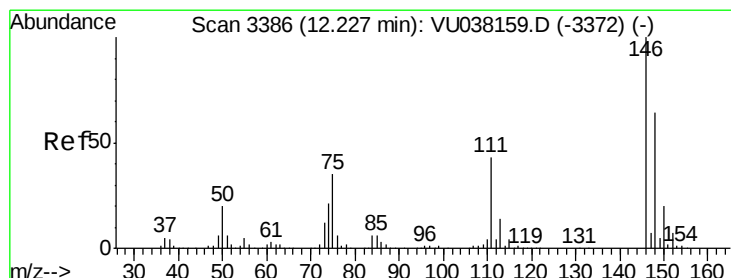
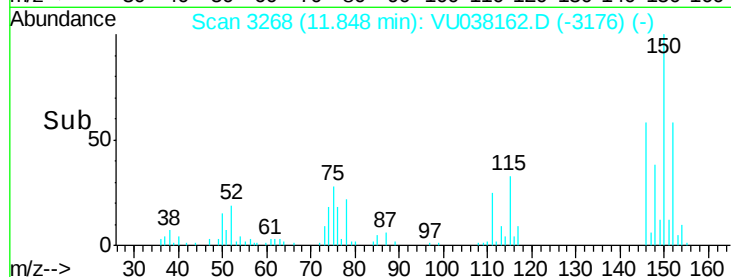
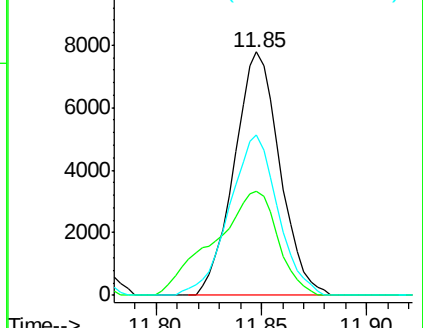
148 65.7 43.8 81.3



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: 0.113 ug/L

RT: 12.22 min Scan# 3384

Delta R.T. -0.01 min

Lab File: VU038162.D

Acq: 14 May 2020 12:28

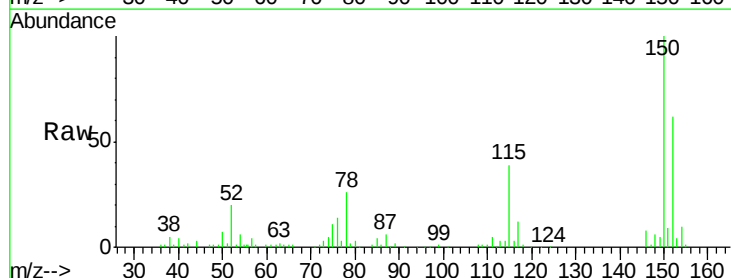
Tgt Ion:146 Resp: 5776

Ion Ratio Lower Upper

146 100

111 61.8 35.3 52.9#

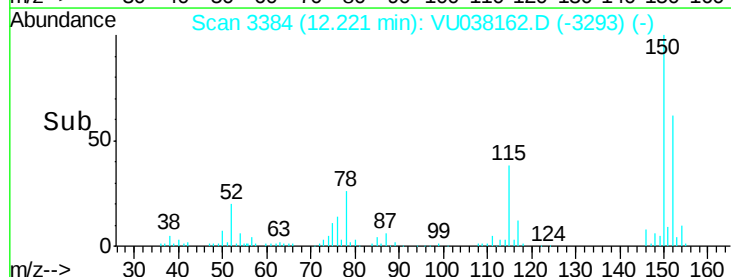
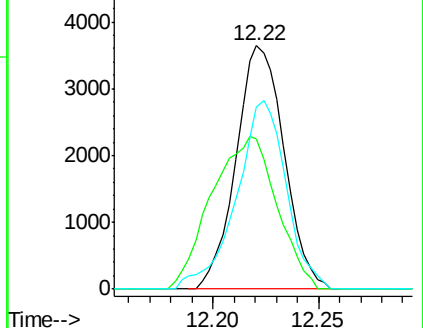
148 75.0 51.0 76.4

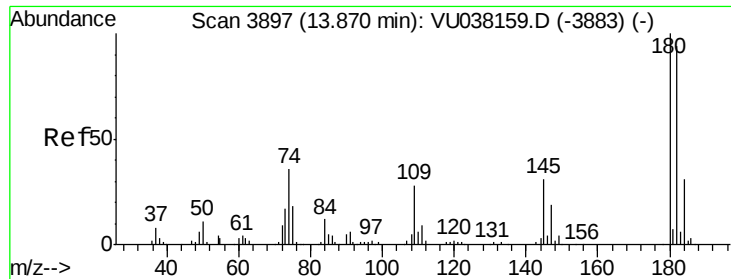


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#68

1,2,4-trichlorobenzene

Concen: 0.087 ug/L

RT: 13.86 min Scan# 3895

Delta R.T. -0.01 min

Lab File: VU038162.D

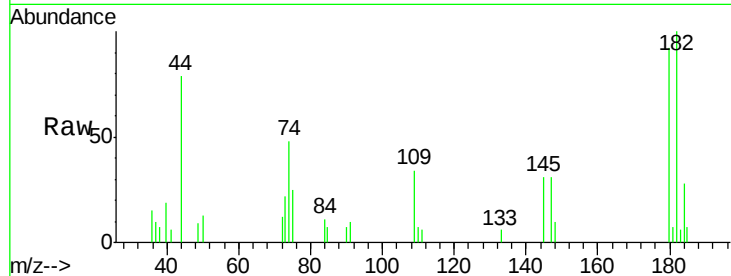
Acq: 14 May 2020 12:28

Instrument :

MSVOA_U

ClientSampleId :

BFX12



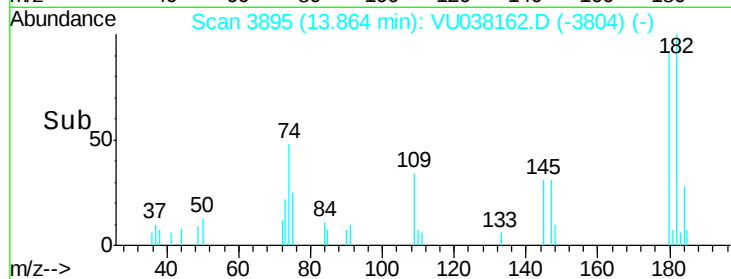
Tot Ion:180 Resp: 3056

Ion Ratio Lower Upper

180 100

182 99.5 75.0 112.6

145 33.2 24.8 37.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V

