

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051420\
 Data File : VU038163.D
 Acq On : 14 May 2020 12:51
 Operator : JC/MD
 Sample : L2630-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX13

Quant Time: May 15 01:45:11 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	347948	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	338499	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	161195	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	112292	3.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.60%
7) Chloroethane-d5	1.93	69	111270	4.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.80%
11) 1,1-Dichloroethene-d2	2.59	63	157585	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	4.67	46	454381	57.86	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.72%
24) Chloroform-d	5.10	84	222050	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.74	65	131545	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.76	84	457341	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
36) 1,2-Dichloropropane-d6	6.72	67	153026	4.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.40%
41) Toluene-d8	7.92	98	394509	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
43) trans-1,3-Dichloropropene-	8.20	79	56859	4.34	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.80%
46) 2-Hexanone-d5	8.65	63	368349	59.48	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	118.96%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	129428	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	153134	4.88	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	51604	1.373	ug/L	97
12) 1,1-Dichloroethene	2.61	96	7714	0.319	ug/L #	1
17) Methyl tert-butyl Ether	3.40	73	8086	0.121	ug/L #	1
18) trans-1,2-Dichloroethene	3.39	96	6464	0.245	ug/L	96
19) 1,1-Dichloroethane	3.91	63	163935	3.184	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	238895	8.409	ug/L	100
25) Chloroform	5.12	83	91993	1.916	ug/L	97
27) 1,2-Dichloroethane	5.83	62	18385	0.542	ug/L	99
29) 1,1,1-Trichloroethane	5.35	97	48264	1.244	ug/L	99
30) Cyclohexane	5.43	56	7339	0.160	ug/L	91
33) Benzene	5.81	78	40323	0.372	ug/L	100
34) Trichloroethene	6.57	95	10456	0.386	ug/L	96
45) 1,1,2-Trichloroethane	8.42	97	8372	0.409	ug/L	96
51) Chlorobenzene	9.47	112	68080	0.959	ug/L	99
54) o-Xylene	10.12	106	6620	0.144	ug/L	97
62) 1,3-Dichlorobenzene	11.76	146	8659	0.165	ug/L	89
63) 1,4-Dichlorobenzene	11.85	146	13190	0.248	ug/L	99

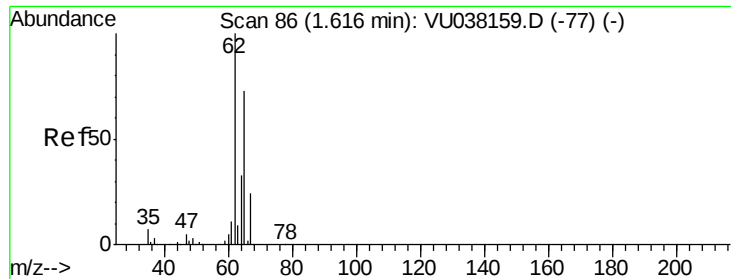
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051420\
Data File : VU038163.D
Acq On : 14 May 2020 12:51
Operator : JC/MD
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Quant Time: May 15 01:45:11 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 15 01:05:40 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	12.22	146	5807	0.115	ug/L #	85
68) 1,2,4-trichlorobenzene	13.86	180	7076	0.205	ug/L	91
70) 1,2,3-Trichlorobenzene	14.36	180	5538	0.173	ug/L	96

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



#5

Vinyl chloride

Concen: 1.373 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

Instrument :

MSVOA_U

ClientSampled :

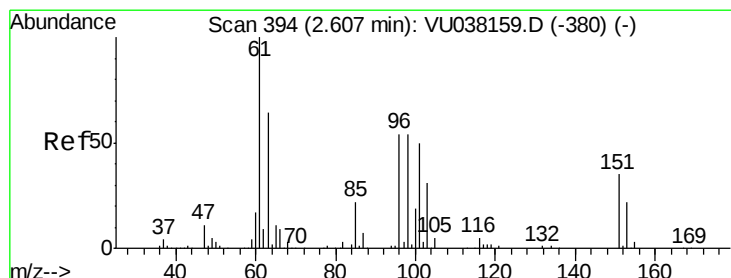
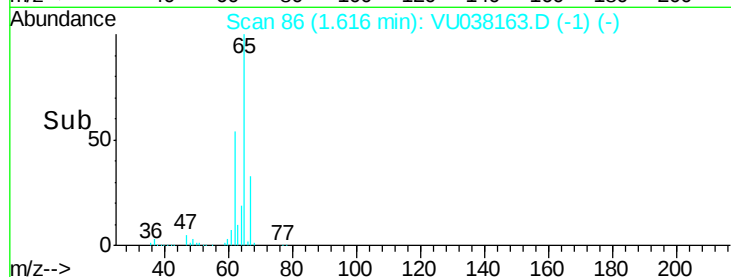
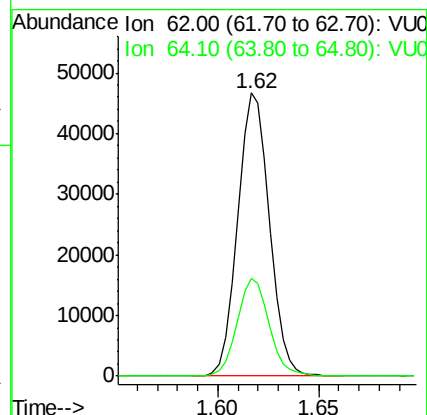
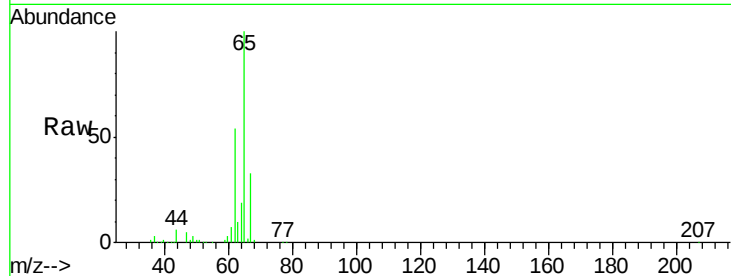
BFX13

Tot Ion: 62 Resp: 51604

Ion Ratio Lower Upper

62 100

64 34.5 22.8 42.4



#12

1,1-Dichloroethene

Concen: 0.319 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

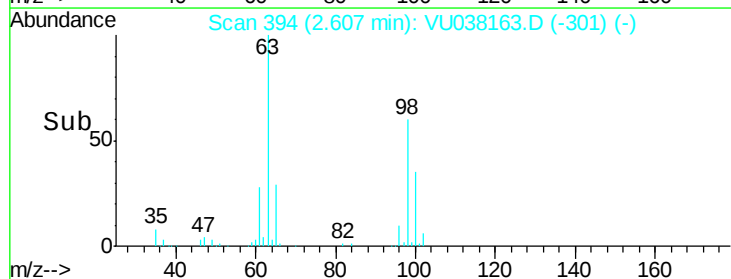
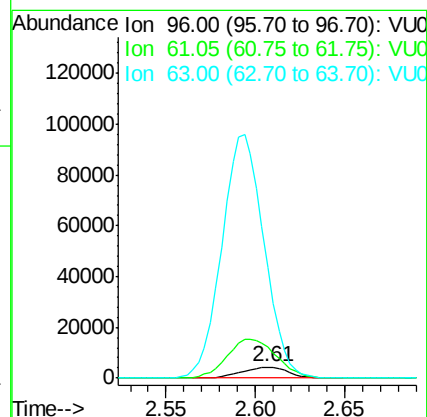
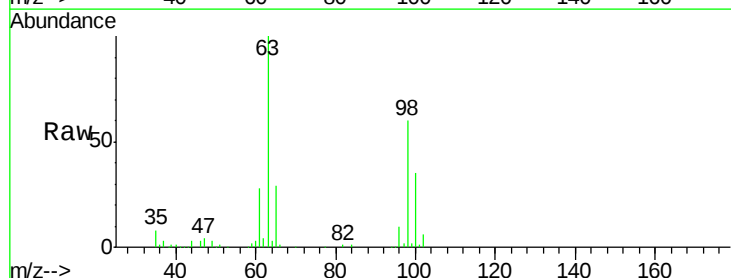
Tgt Ion: 96 Resp: 7714

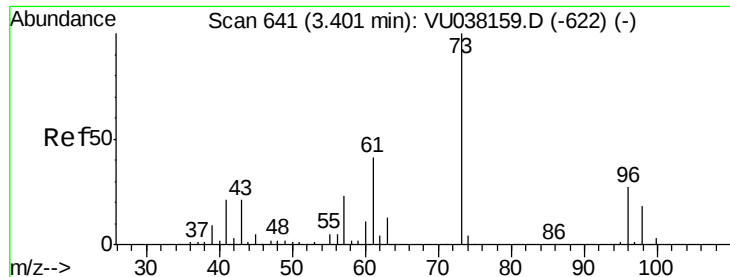
Ion Ratio Lower Upper

96 100

61 286.1 126.2 234.4#

63 1034.8 96.9 179.9#

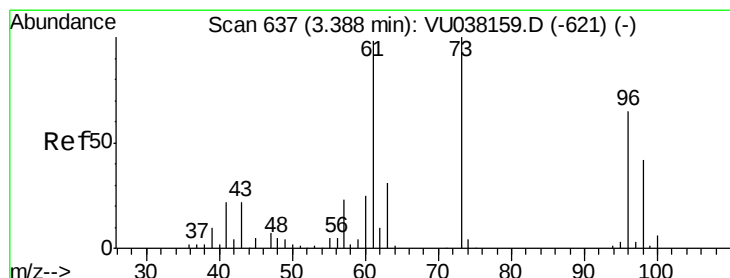
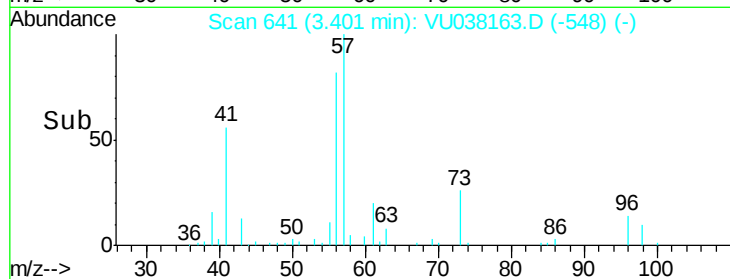
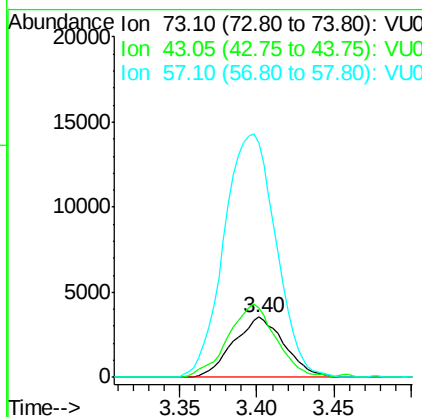
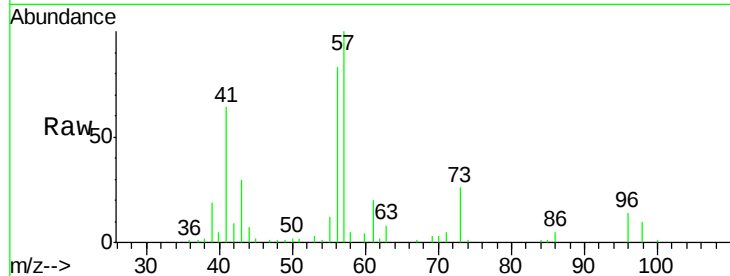




#17
Methvl tert-butvl Ether
Concen: 0.121 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038163.D
Acq: 14 May 2020 12:51

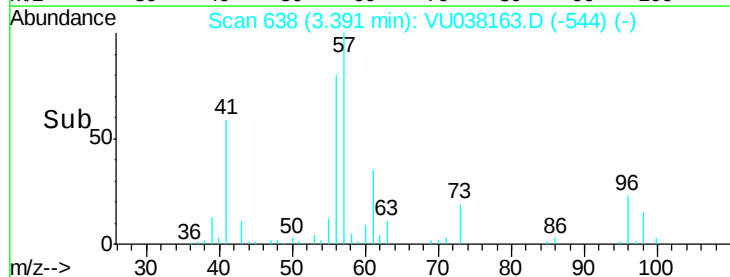
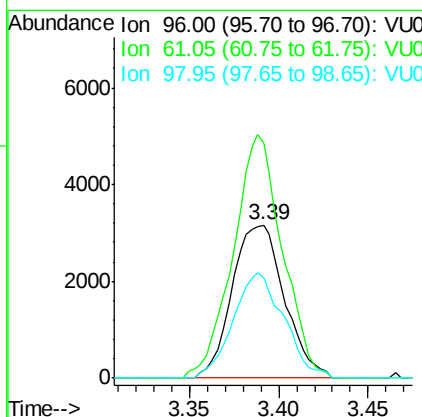
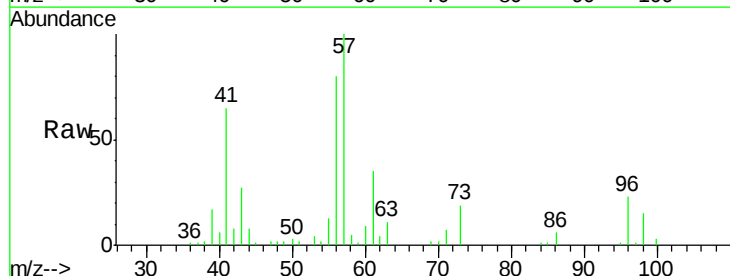
Instrument :
MSVOA_U
ClientSampleId :
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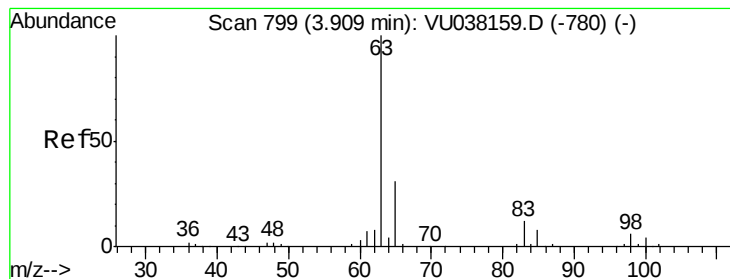
Tot Ion: 73 Resp: 8086
Ion Ratio Lower Upper
73 100
43 114.8 16.9 25.3#
57 412.5 18.2 27.2#



#18
trans-1,2-Dichloroethene
Concen: 0.245 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU038163.D
Acq: 14 May 2020 12:51

Tgt Ion: 96 Resp: 6464
Ion Ratio Lower Upper
96 100
61 153.2 102.1 189.5
98 65.9 45.6 84.8





#19

1,1-Dichloroethane

Concen: 3.184 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

Instrument :

MSVOA_U

ClientSampleId :

BFX13

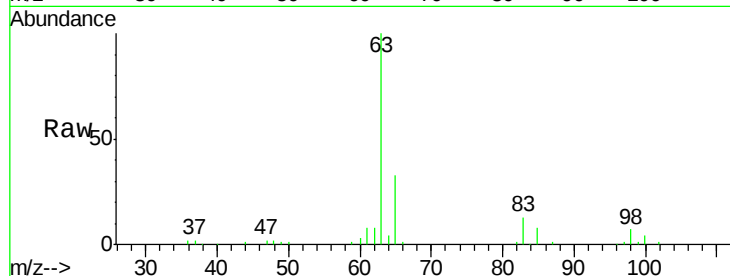
Tot Ion: 63 Resp: 163935

Ion Ratio Lower Upper

63 100

65 32.6 22.5 41.7

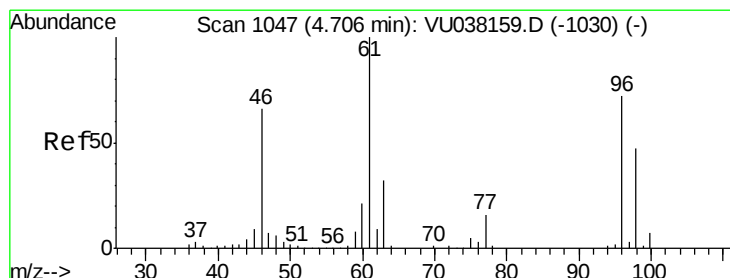
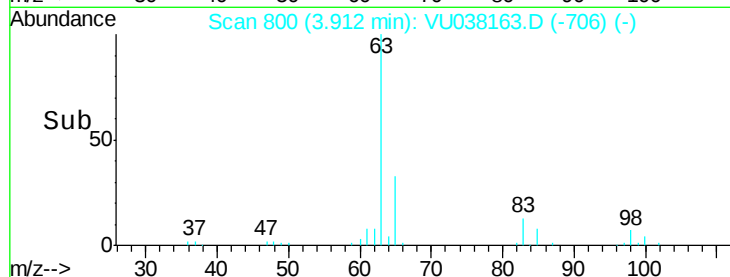
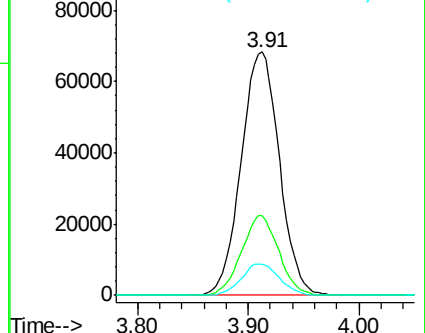
83 12.8 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU038159.D (-780) (-)

Ion 65.10 (64.80 to 65.80): VU038159.D (-780) (-)

Ion 83.05 (82.75 to 83.75): VU038159.D (-780) (-)



#22

cis-1,2-Dichloroethene

Concen: 8.409 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

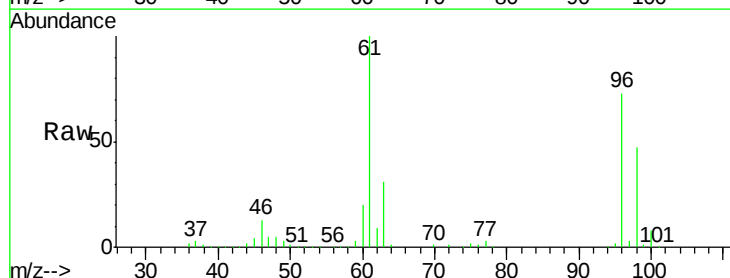
Tgt Ion: 96 Resp: 238895

Ion Ratio Lower Upper

96 100

61 136.1 95.3 176.9

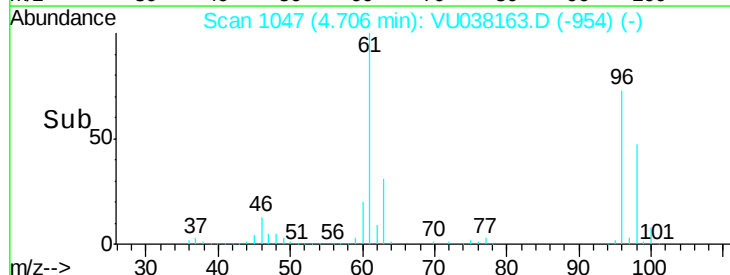
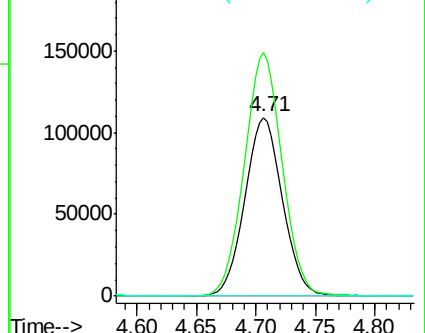
68 0.0 0.0 0.0

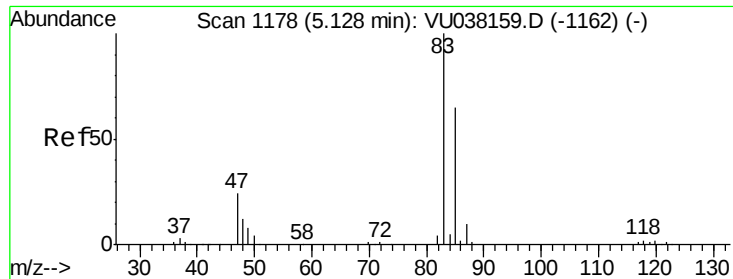


Abundance Ion 96.00 (95.70 to 96.70): VU038159.D (-1030) (-)

Ion 61.05 (60.75 to 61.75): VU038159.D (-1030) (-)

Ion 68.15 (67.85 to 68.85): VU038159.D (-1030) (-)

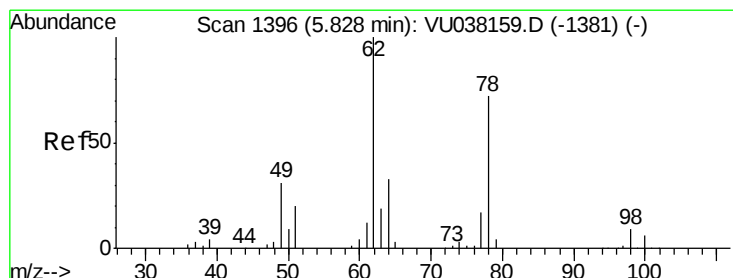
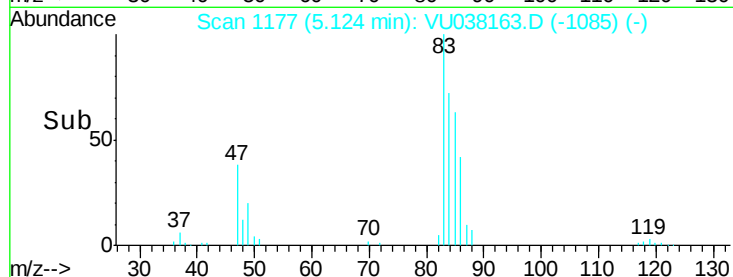
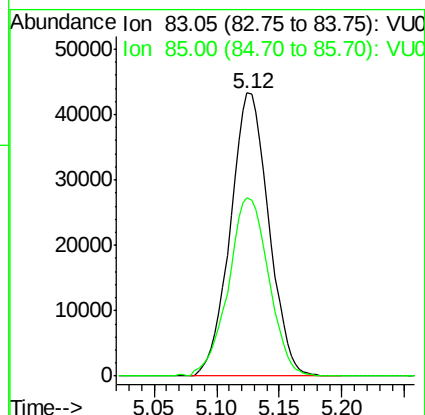
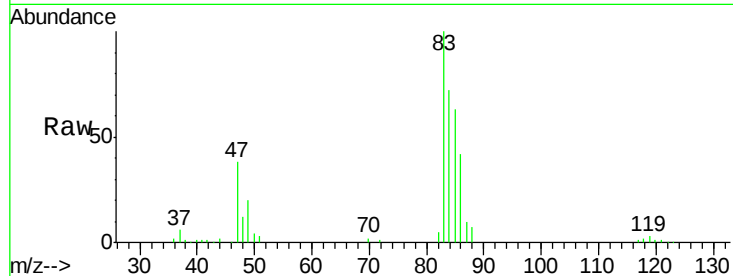




#25
Chloroform
Concen: 1.916 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038163.D
Acq: 14 May 2020 12:51

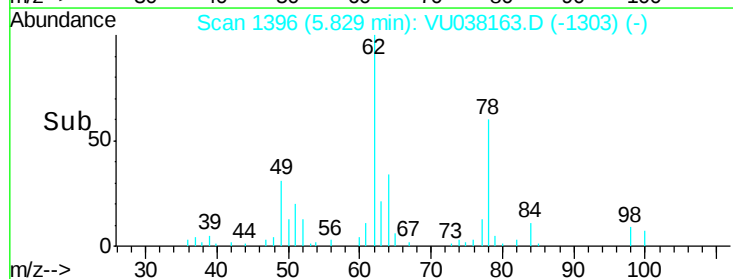
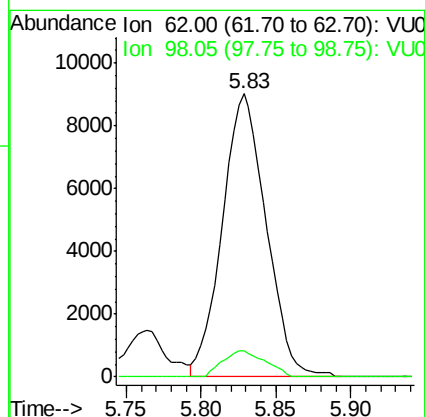
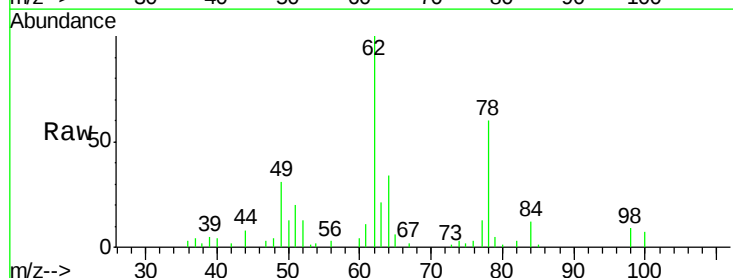
Instrument :
MSVOA_U
ClientSampleId :
BFX13

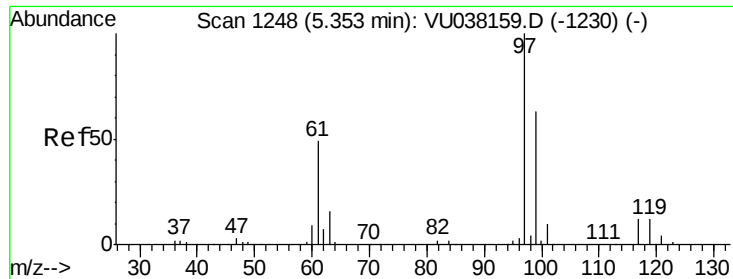
Tot Ion: 83 Resp: 91993
Ion Ratio Lower Upper
83 100
85 63.2 46.2 85.8



#27
1,2-Dichloroethane
Concen: 0.542 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038163.D
Acq: 14 May 2020 12:51

Tgt Ion: 62 Resp: 18385
Ion Ratio Lower Upper
62 100
98 9.3 7.8 11.8

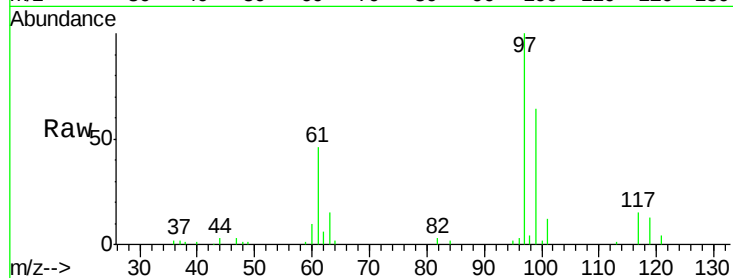




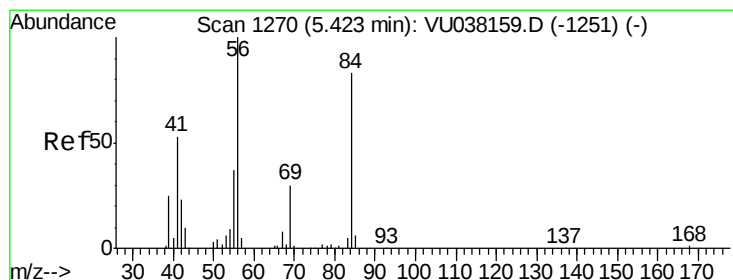
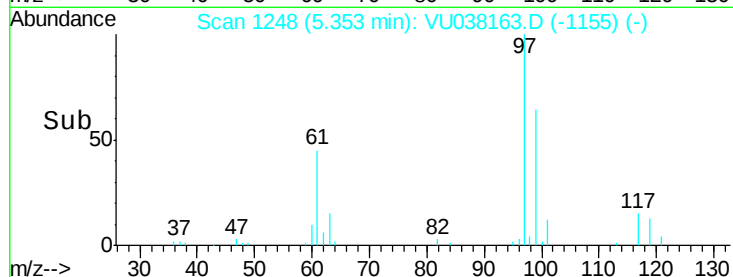
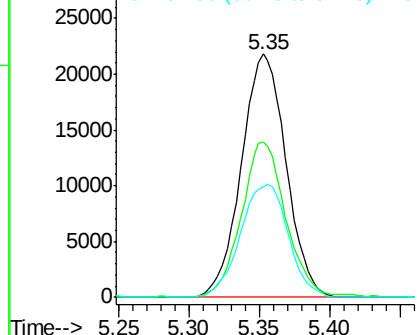
#29
 1,1,1-Trichloroethane
 Concen: 1.244 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038163.D
 Acq: 14 May 2020 12:51

Instrument :
 MSVOA_U
 ClientSampled :
 BFX13

Tot Ion: 97 Resp: 48264
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.0 76.4
 61 49.7 38.2 57.4

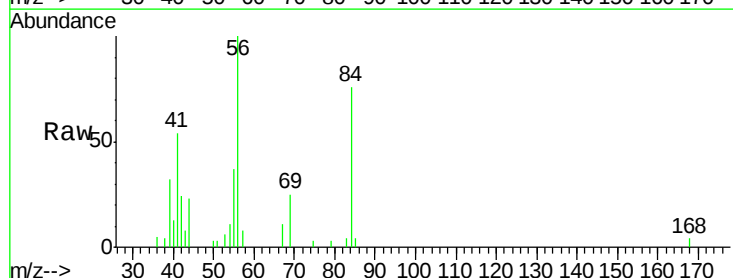


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

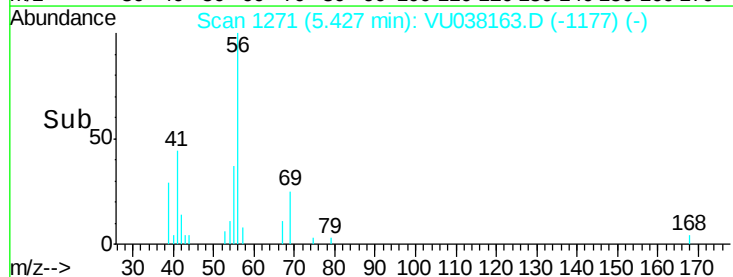
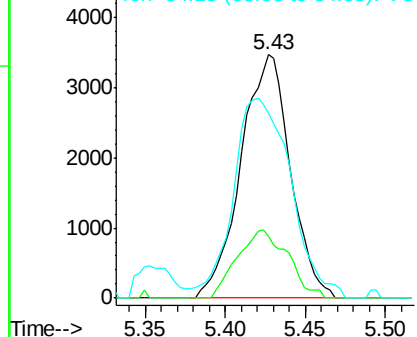


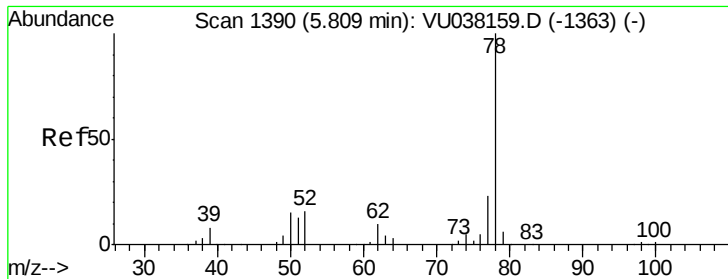
#30
 Cyclohexane
 Concen: 0.160 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VU038163.D
 Acq: 14 May 2020 12:51

Tgt Ion: 56 Resp: 7339
 Ion Ratio Lower Upper
 56 100
 69 28.5 24.2 36.4
 84 95.9 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: 0.372 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

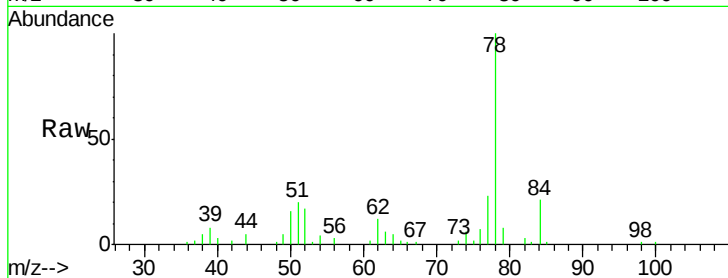
Instrument :

MSVOA_U

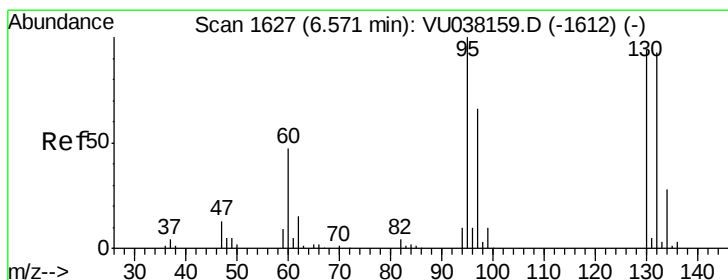
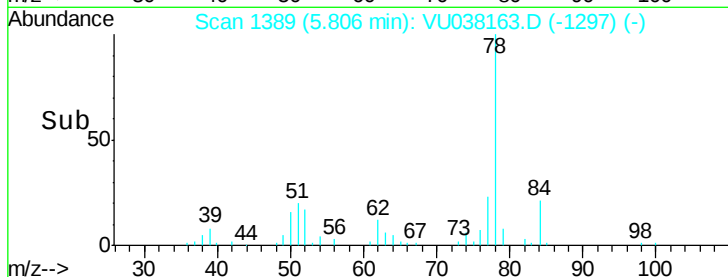
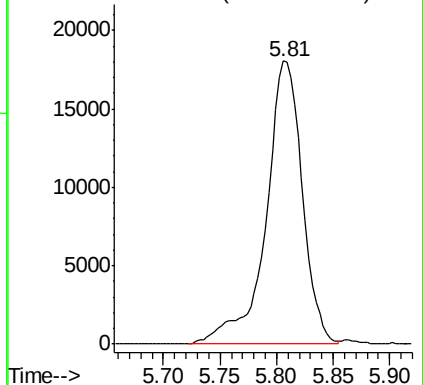
ClientSampled :

BFX13

Tgt Ion: 78 Resp: 40323



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.386 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

Tgt Ion: 95 Resp: 10456

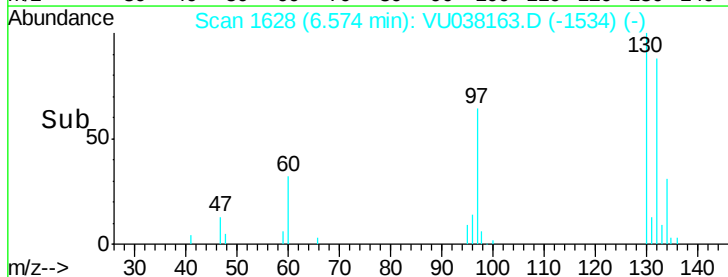
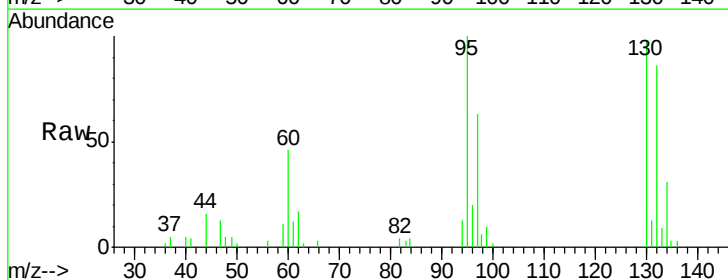
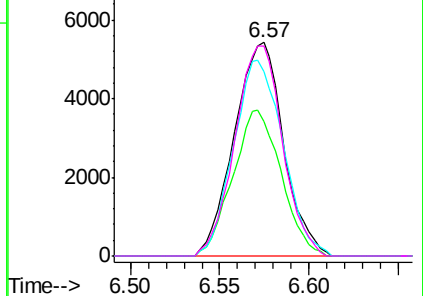
Ion	Ratio	Lower	Upper
95	100		
97	63.1	44.9	83.3
132	86.3	63.3	117.5
130	98.1	65.7	122.1

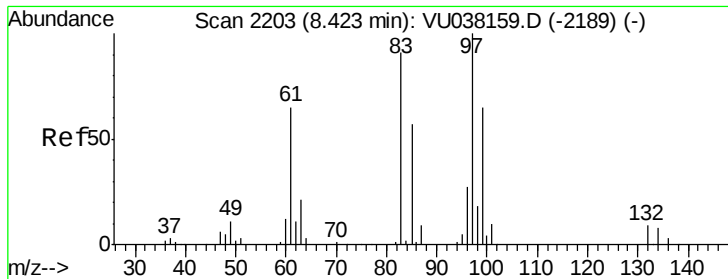
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

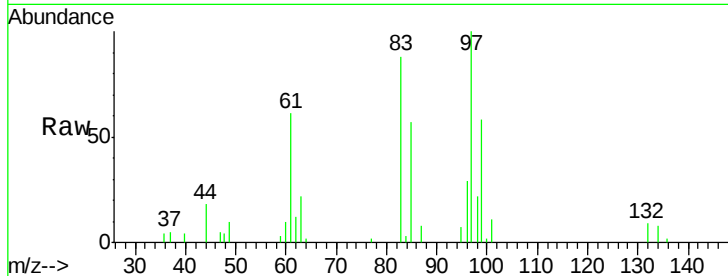




#45
 1,1,2-Trichloroethane
 Concen: 0.409 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU038163.D
 Acq: 14 May 2020 12:51

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX13

Tot Ion:	97	Resp:	8372
Ion	Ratio	Lower	Upper
97	100		
99	57.7	44.0	81.6
83	87.6	59.6	110.8
85	56.9	41.3	76.7

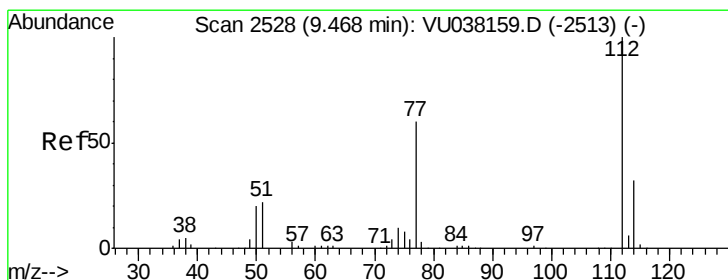
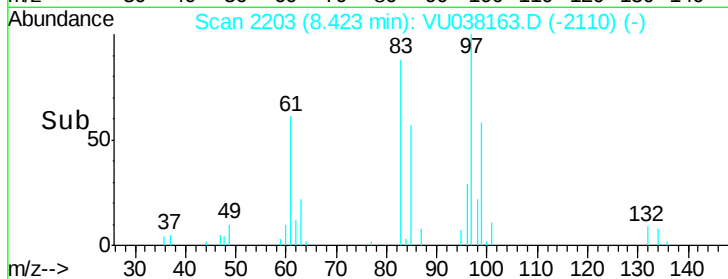
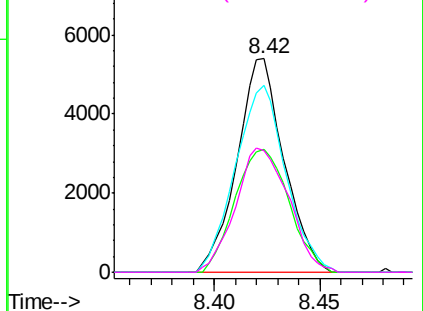


Abundance Ion 96.95 (96.65 to 97.65): VU038163.D (-2110) (-)

Ion 99.05 (98.75 to 99.75): VU038163.D (-2110) (-)

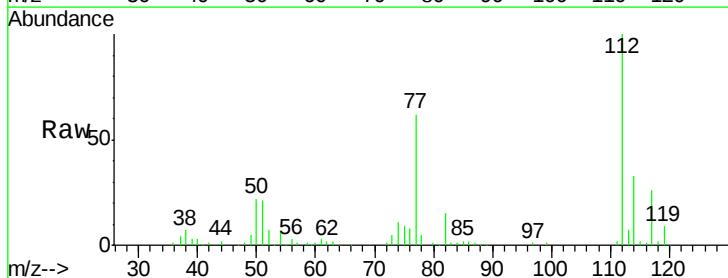
Ion 82.95 (82.65 to 83.65): VU038163.D (-2110) (-)

Ion 85.00 (84.70 to 85.70): VU038163.D (-2110) (-)



#51
 Chlorobenzene
 Concen: 0.959 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU038163.D
 Acq: 14 May 2020 12:51

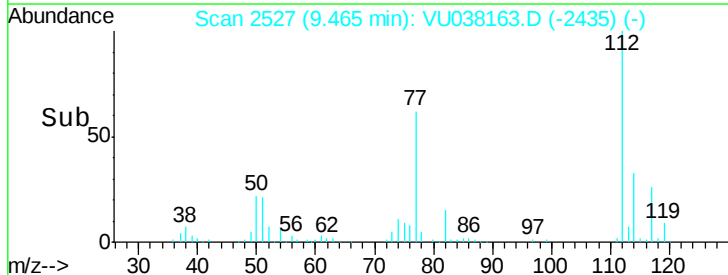
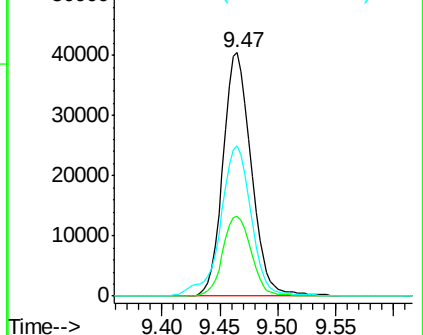
Tgt Ion:	112	Resp:	68080
Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.5	41.7
77	61.7	49.9	74.9

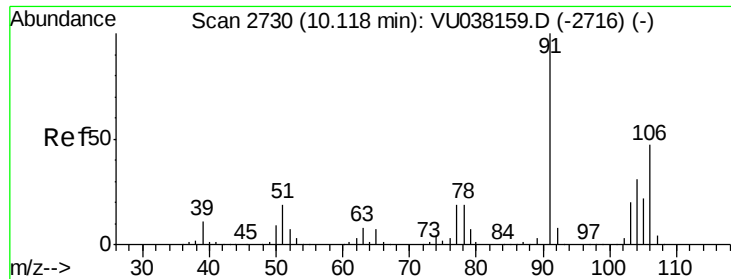


Abundance Ion 112.10 (111.80 to 112.80): VU038163.D (-2435) (-)

Ion 114.05 (113.75 to 114.75): VU038163.D (-2435) (-)

Ion 77.10 (76.80 to 77.80): VU038163.D (-2435) (-)

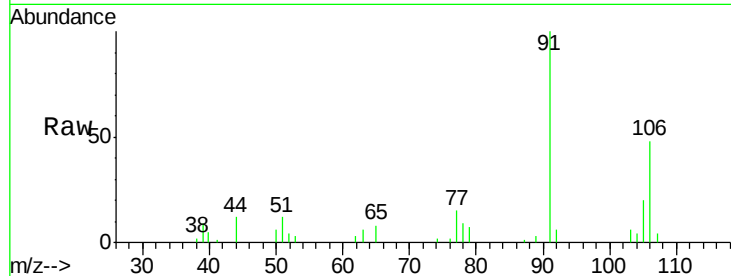




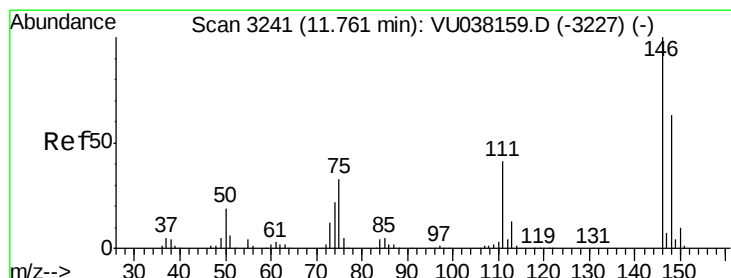
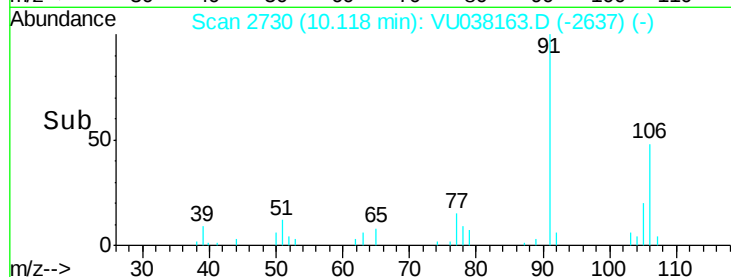
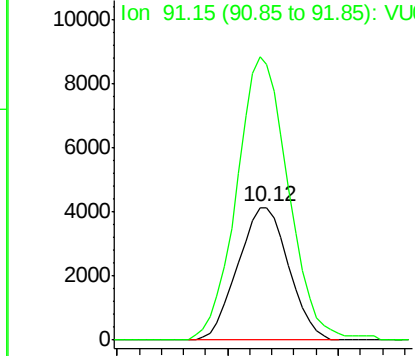
#54
o-Xylene
Concen: 0.144 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. 0.00 min
Lab File: VU038163.D
Acq: 14 May 2020 12:51

Instrument :
MSVOA_U
ClientSampled :
BFX13

Tot Ion:106 Resp: 6620
Ion Ratio Lower Upper
106 100
91 207.4 148.5 275.9

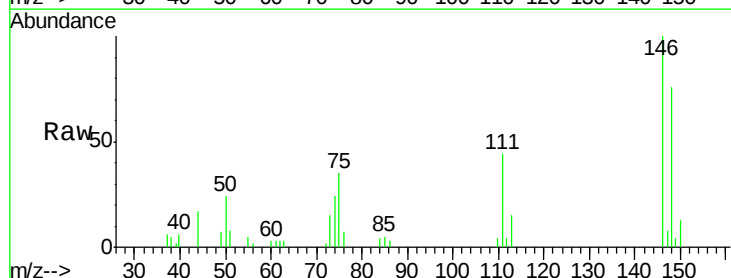


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

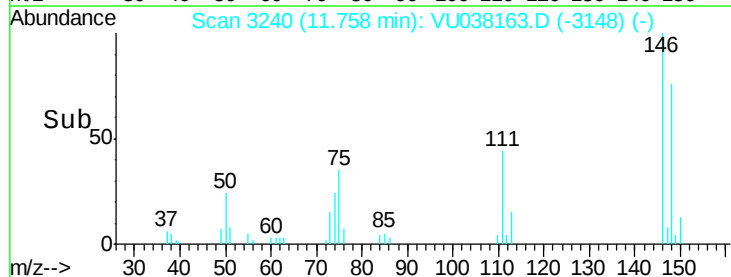
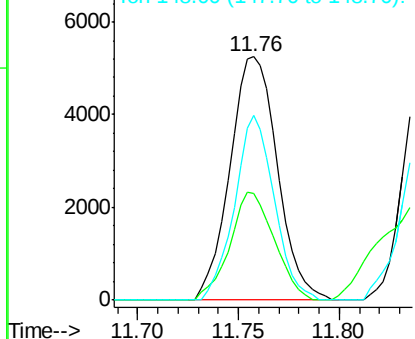


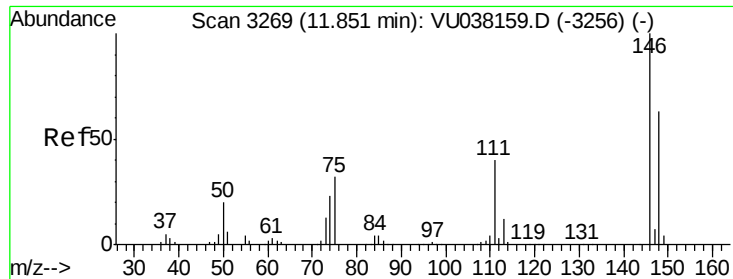
#62
1,3-Dichlorobenzene
Concen: 0.165 ug/L
RT: 11.76 min Scan# 3240
Delta R.T. -0.00 min
Lab File: VU038163.D
Acq: 14 May 2020 12:51

Tgt Ion:146 Resp: 8659
Ion Ratio Lower Upper
146 100
111 43.6 28.6 53.2
148 76.0 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: 0.248 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

Instrument :

MSVOA_U

ClientSampleId :

BFX13

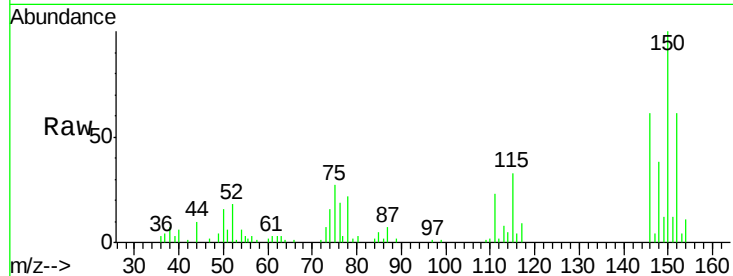
Tot Ion:146 Resp: 13190

Ion Ratio Lower Upper

146 100

111 37.3 27.2 50.6

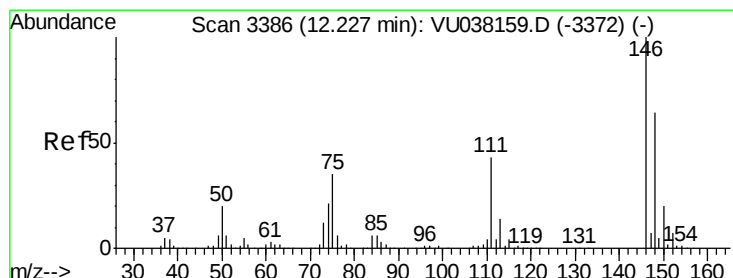
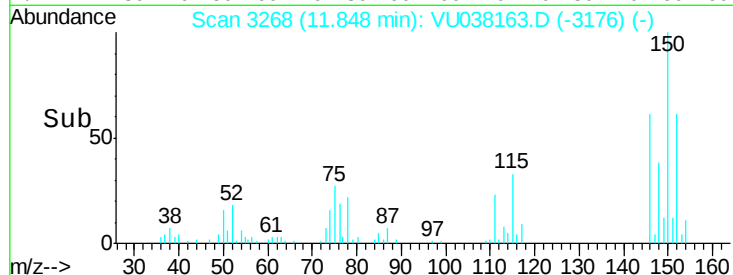
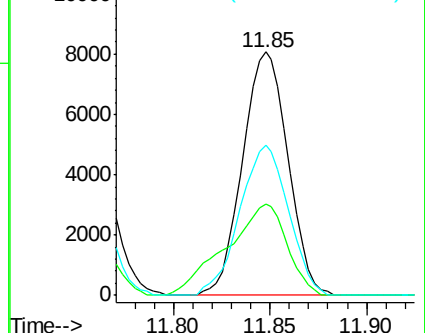
148 61.9 43.8 81.3



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: 0.115 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038163.D

Acq: 14 May 2020 12:51

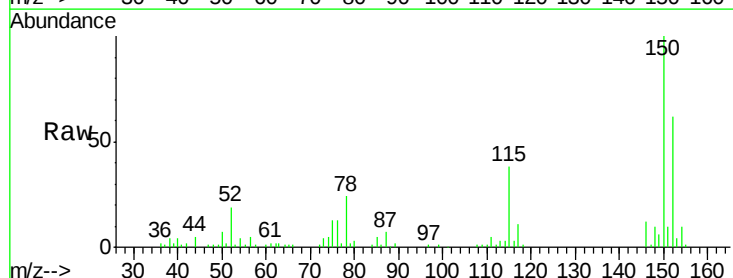
Tgt Ion:146 Resp: 5807

Ion Ratio Lower Upper

146 100

111 45.3 35.3 52.9

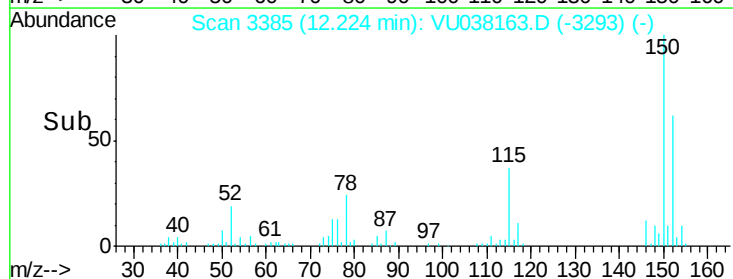
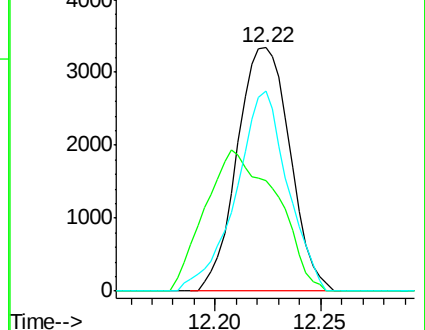
148 82.4 51.0 76.4#

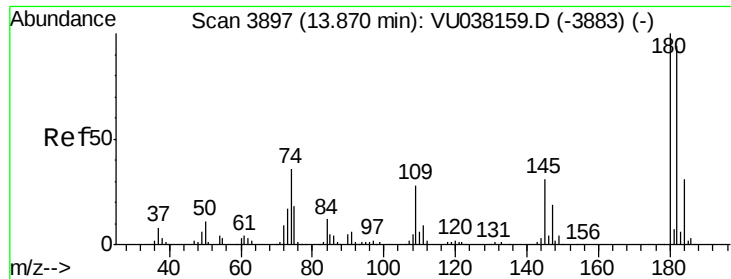


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

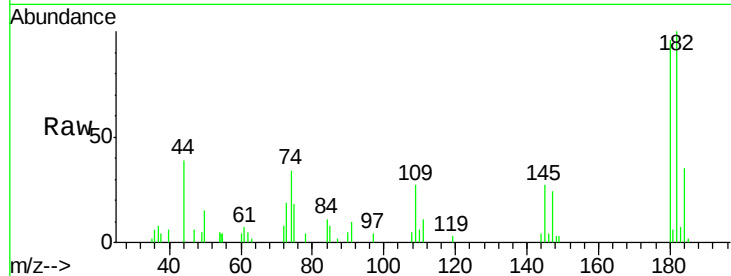




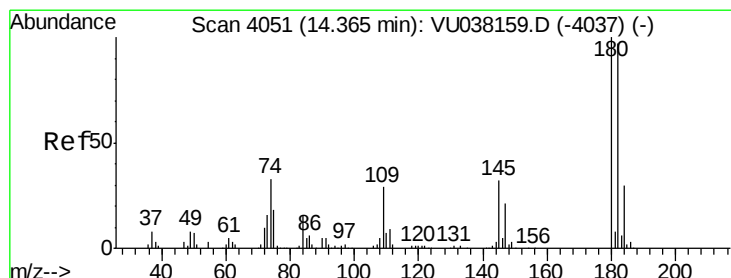
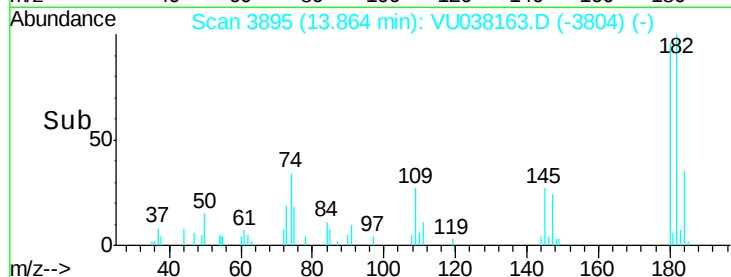
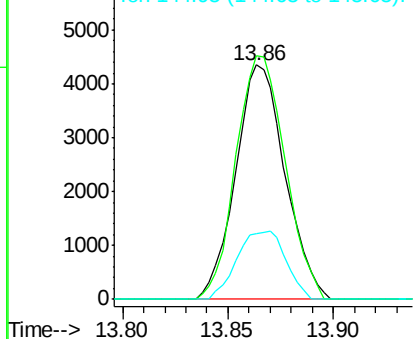
#68
 1,2,4-trichlorobenzene
 Concen: 0.205 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU038163.D
 Acq: 14 May 2020 12:51

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX13

Tot Ion:180 Resp: 7076
 Ion Ratio Lower Upper
 180 100
 182 103.9 75.0 112.6
 145 28.6 24.8 37.2

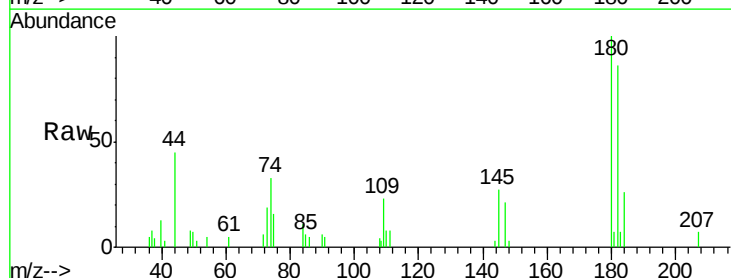


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V



#70
 1,2,3-Trichlorobenzene
 Concen: 0.173 ug/L
 RT: 14.36 min Scan# 4050
 Delta R.T. -0.00 min
 Lab File: VU038163.D
 Acq: 14 May 2020 12:51

Tgt Ion:180 Resp: 5538
 Ion Ratio Lower Upper
 180 100
 182 92.2 76.3 114.5
 145 28.7 26.1 39.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

