

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061220\
 Data File : VU038830.D
 Acq On : 11 Jun 2020 17:20
 Operator : SY/MD
 Sample : L2968-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE7

Quant Time: Jun 12 01:05:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jun 12 01:02:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	274797	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	276632	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	128783	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	68528	3.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.00%
7) Chloroethane-d5	1.93	69	65265	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.60%
11) 1,1-Dichloroethene-d2	2.59	63	117872	3.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.40%
20) 2-Butanone-d5	4.68	46	317817	58.82	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.64%
24) Chloroform-d	5.10	84	184452	5.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.40%
26) 1,2-Dichloroethane-d4	5.74	65	106549	5.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.40%
32) Benzene-d6	5.76	84	341292	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.72	67	106831	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.92	98	277560	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
43) trans-1,3-Dichloropropene-	8.20	79	41802	4.58	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.60%
46) 2-Hexanone-d5	8.65	63	258749	57.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.74%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	96726	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	118722	5.35	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	50301	2.360	ug/L	98
12) 1,1-Dichloroethene	2.61	96	9874	0.583	ug/L #	1
18) trans-1,2-Dichloroethene	3.39	96	2751	0.151	ug/L #	83
19) 1,1-Dichloroethane	3.91	63	41323	1.266	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	262277	13.355	ug/L	97
25) Chloroform	5.13	83	150575	4.541	ug/L	100
29) 1,1,1-Trichloroethane	5.35	97	88528	3.024	ug/L	100
30) Cyclohexane	5.43	56	6224	0.203	ug/L	91
31) Carbon tetrachloride	5.35	117	10441	0.428	ug/L	91
34) Trichloroethene	6.57	95	11031	0.551	ug/L	97
35) Methylcyclohexane	6.72	83	25748	0.831	ug/L #	17
37) 1,2-Dichloropropane	6.72	63	11784	0.607	ug/L #	86
39) cis-1,3-Dichloropropene	7.59	75	3195	0.111	ug/L #	70
48) 2-Hexanone	8.71	43	12623	1.201	ug/L #	97
51) Chlorobenzene	9.47	112	31493	0.604	ug/L	91
59) 1,2,3-Trichloropropane	11.83	75	17574	1.213	ug/L	90
62) 1,3-Dichlorobenzene	11.75	146	7438	0.197	ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061220\
Data File : VU038830.D
Acq On : 11 Jun 2020 17:20
Operator : SY/MD
Sample : L2968-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFXE7

Quant Time: Jun 12 01:05:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 12 01:02:05 2020
Response via : Initial Calibration

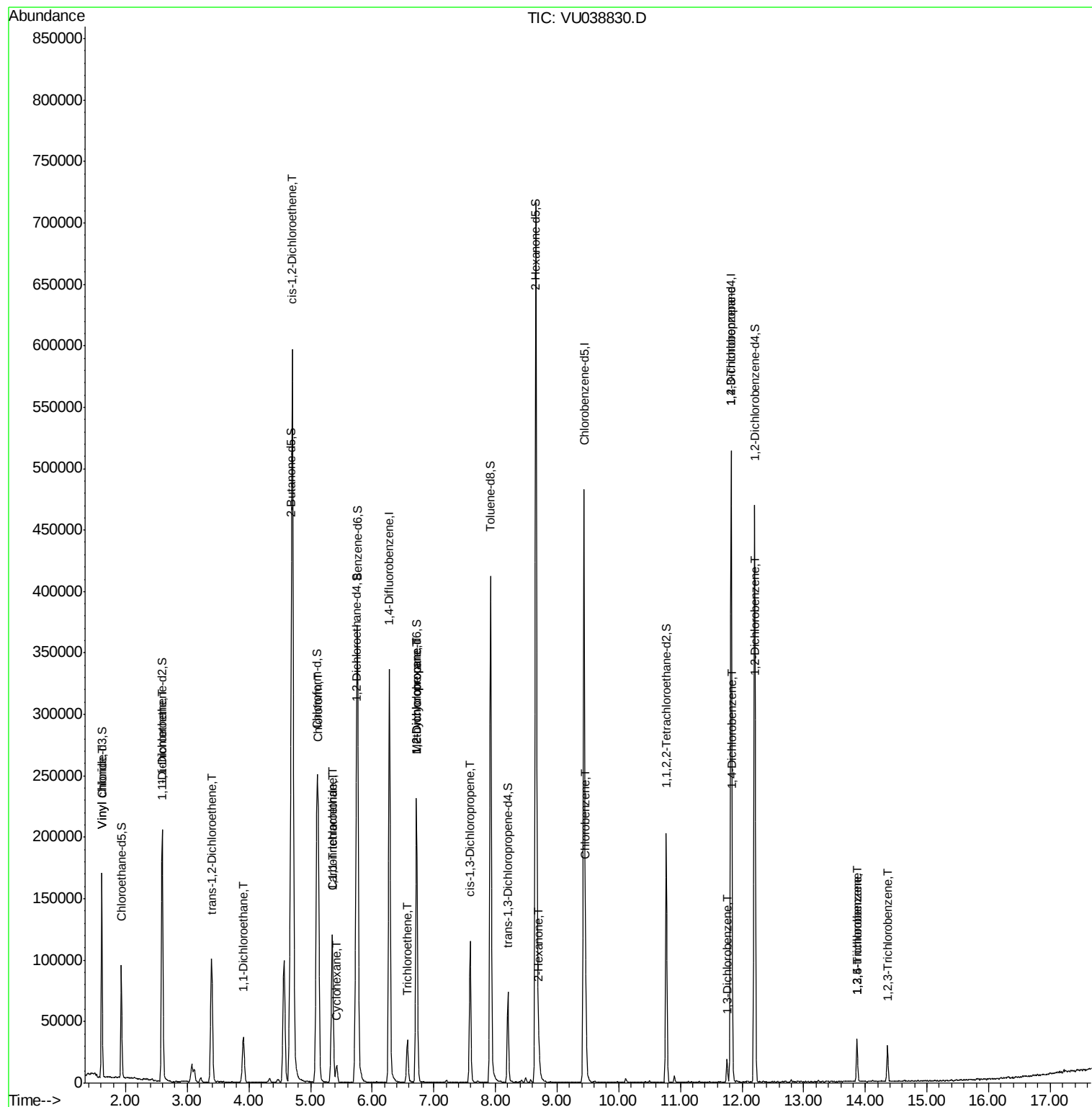
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.85	146	6849	0.178	ug/L	94
65) 1,2-Dichlorobenzene	12.22	146	3415	0.095	ug/L #	89
67) 1,3,5-Trichlorobenzene	13.86	180	10030	0.355	ug/L	96
68) 1,2,4-trichlorobenzene	13.86	180	10030	0.384	ug/L	95
70) 1,2,3-Trichlorobenzene	14.36	180	9117	0.383	ug/L	89

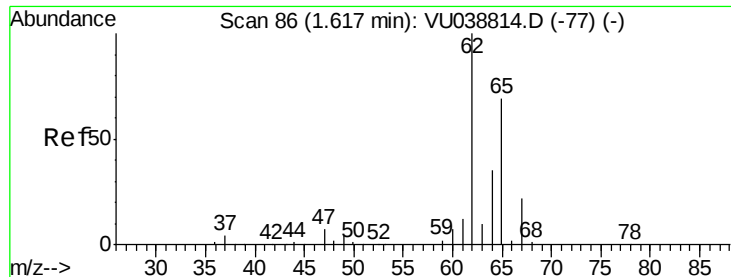
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061220\
Data File : VU038830.D
Acq On : 11 Jun 2020 17:20
Operator : SY/MD
Sample : L2968-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFXE7

Quant Time: Jun 12 01:05:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 12 01:02:05 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.360 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

Instrument :

MSVOA_U

ClientSampleId :

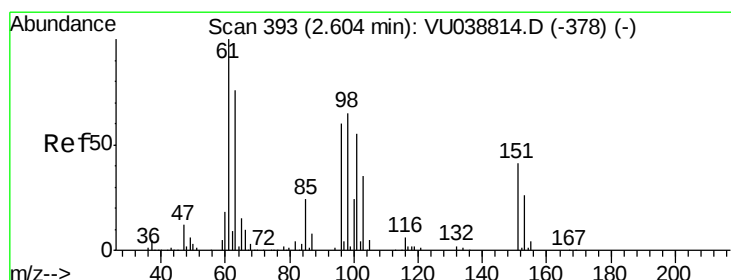
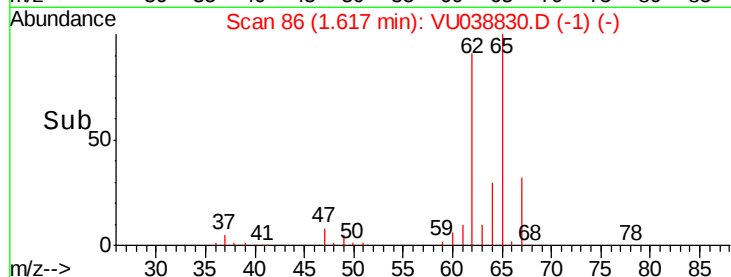
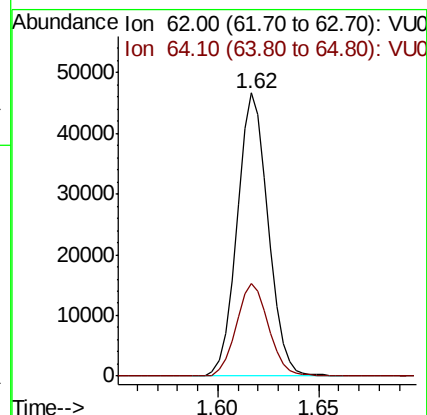
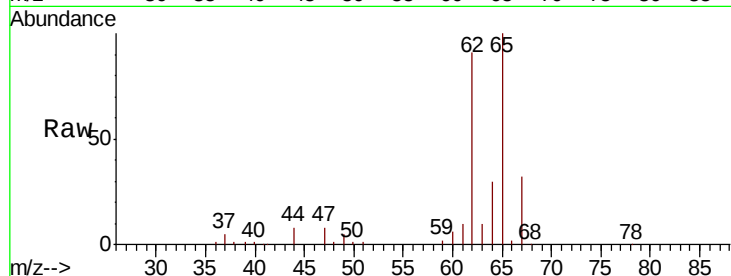
BFXE7

Tot Ion: 62 Resp: 50301

Ion Ratio Lower Upper

62 100

64 32.7 23.7 43.9



#12

1,1-Dichloroethene

Concen: 0.583 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

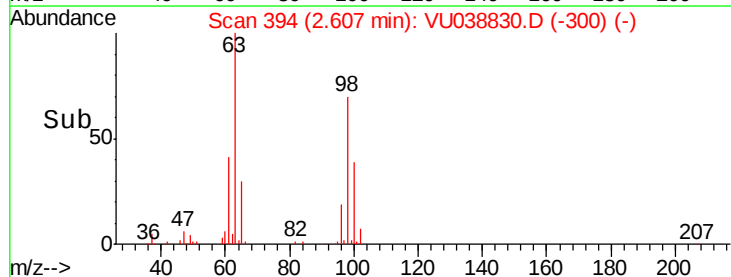
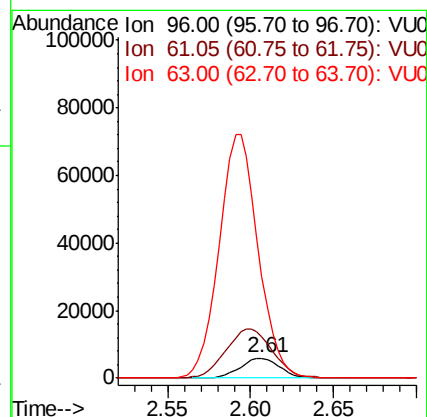
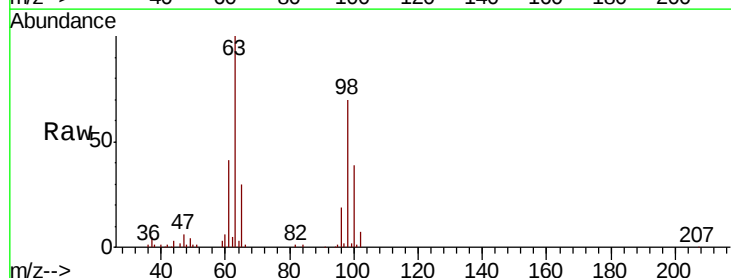
Tgt Ion: 96 Resp: 9874

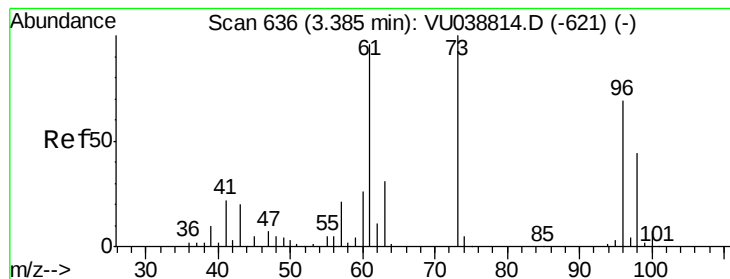
Ion Ratio Lower Upper

96 100

61 210.9 119.9 222.7

63 515.6 89.9 167.0#





#18

trans-1,2-Dichloroethene

Concen: 0.151 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

Instrument :

MSVOA_U

ClientSampled :

BFXE7

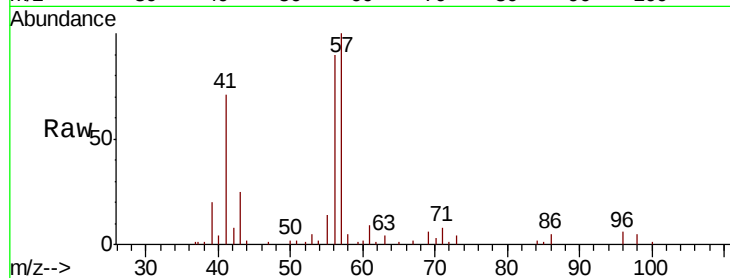
Tot Ion: 96 Resp: 2751

Ion Ratio Lower Upper

96 100

61 155.6 100.2 186.0

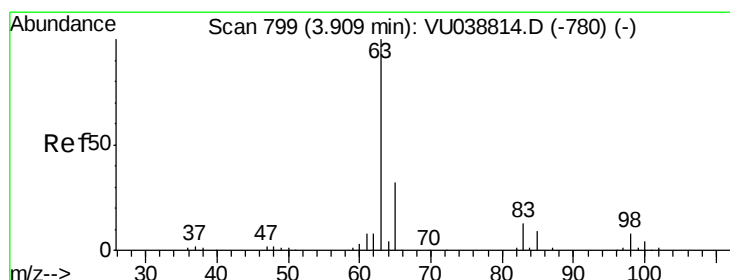
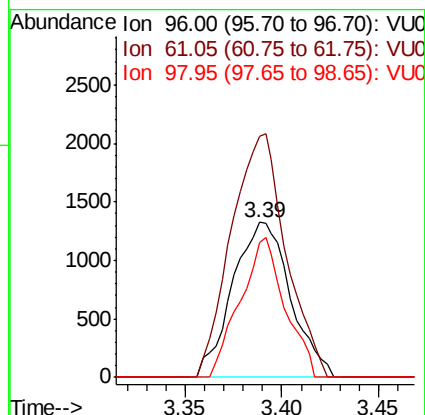
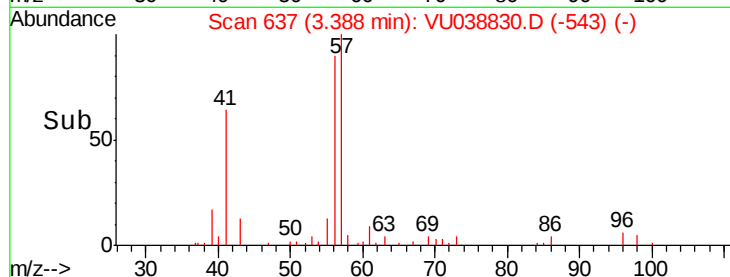
98 87.0 42.8 79.4#



Abundance Ion 96.00 (95.70 to 96.70): VU038830.D (-543) (-)

Ion 61.05 (60.75 to 61.75): VU038830.D (-543) (-)

Ion 97.95 (97.65 to 98.65): VU038830.D (-543) (-)



#19

1,1-Dichloroethane

Concen: 1.266 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

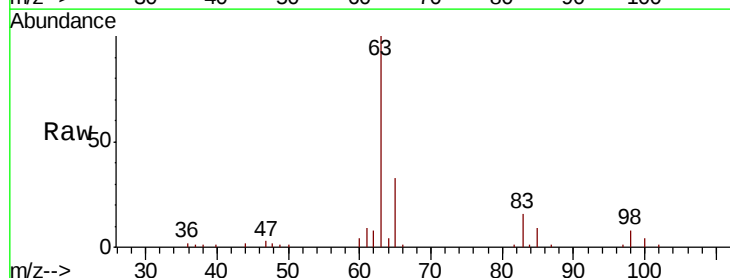
Tgt Ion: 63 Resp: 41323

Ion Ratio Lower Upper

63 100

65 32.6 22.3 41.5

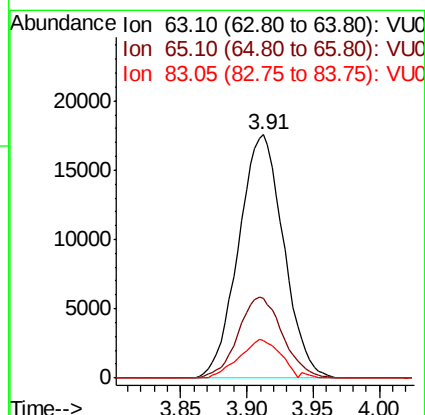
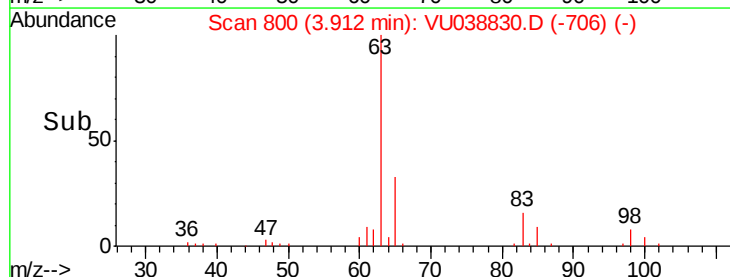
83 15.6 10.4 19.4

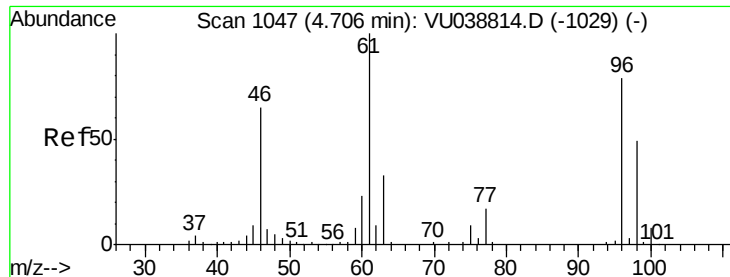


Abundance Ion 63.10 (62.80 to 63.80): VU038830.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU038830.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU038830.D (-706) (-)





#22

cis-1,2-Dichloroethene

Concen: 13.355 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

Instrument :

MSVOA_U

ClientSampleId :

BFXE7

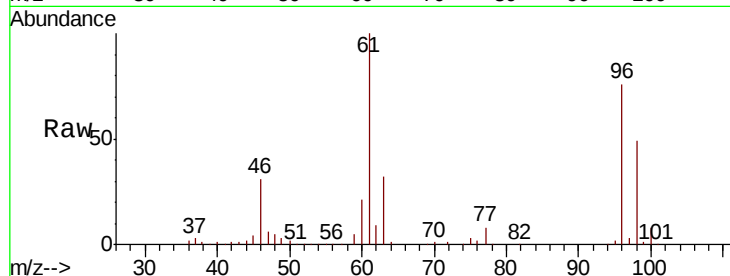
Tot Ion: 96 Resp: 262277

Ion Ratio Lower Upper

96 100

61 130.9 94.0 174.6

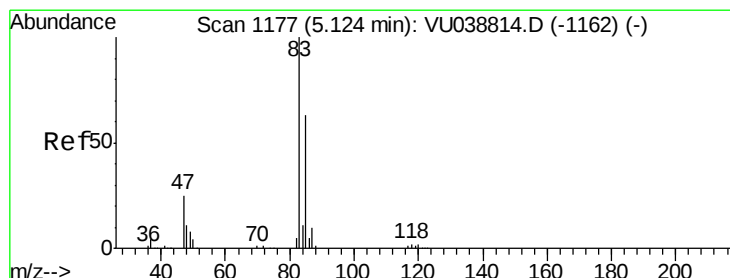
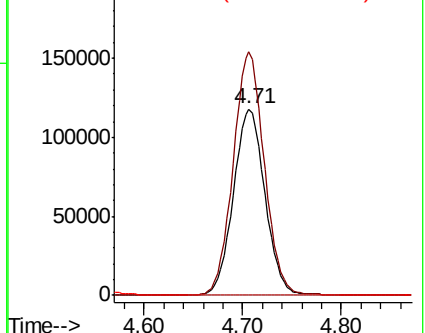
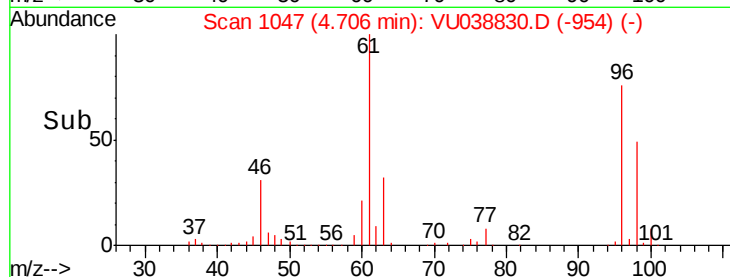
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038830.D (-954) (-)

Ion 61.05 (60.75 to 61.75): VU038830.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU038830.D (-954) (-)



#25

Chloroform

Concen: 4.541 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU038830.D

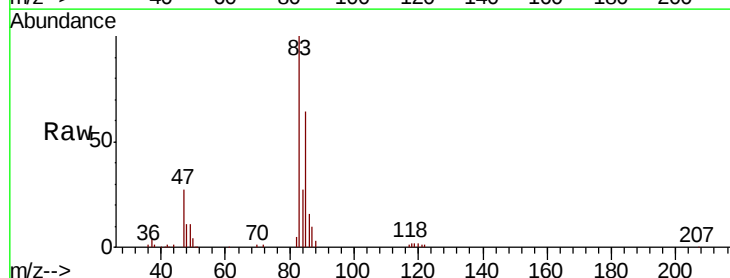
Acq: 11 Jun 2020 17:20

Tgt Ion: 83 Resp: 150575

Ion Ratio Lower Upper

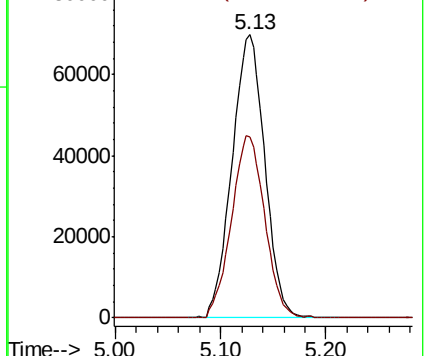
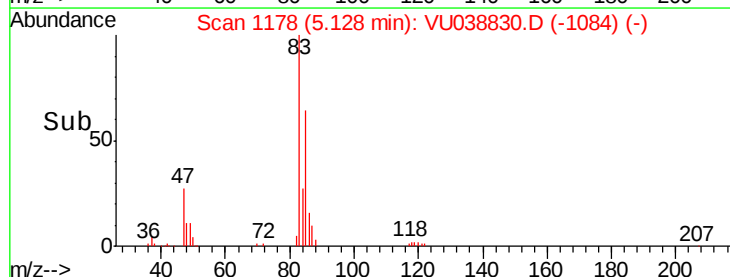
83 100

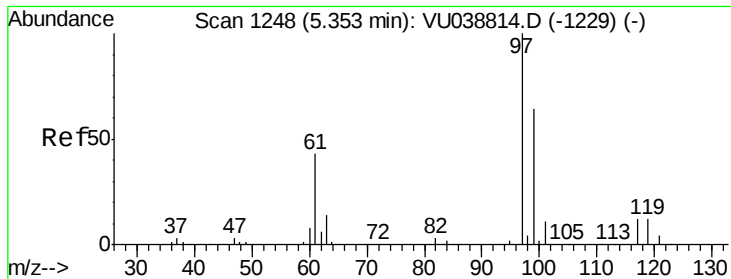
85 64.1 44.9 83.5



Abundance Ion 83.05 (82.75 to 83.75): VU038830.D (-1084) (-)

Ion 85.00 (84.70 to 85.70): VU038830.D (-1084) (-)

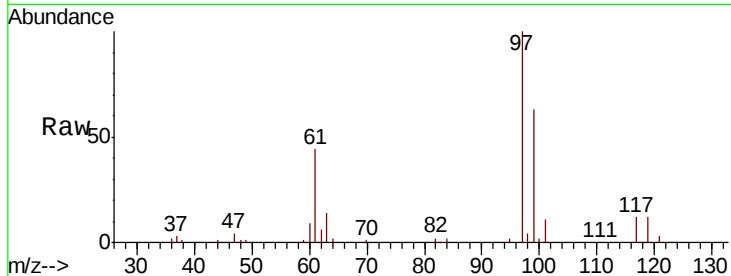




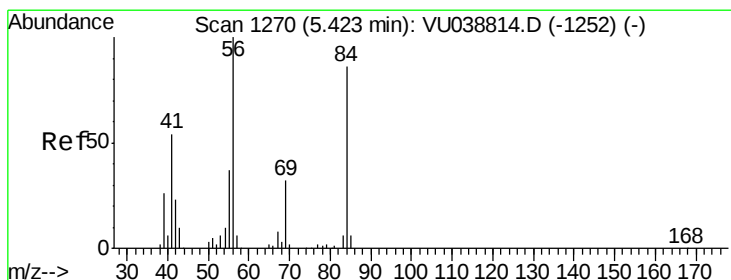
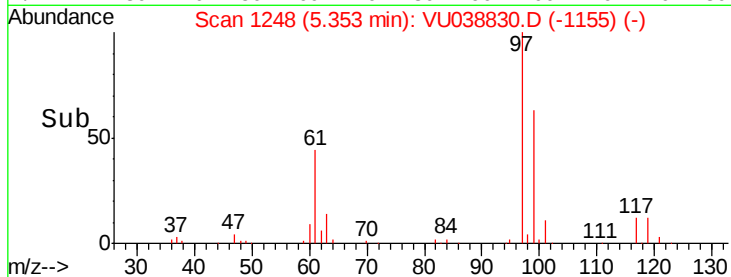
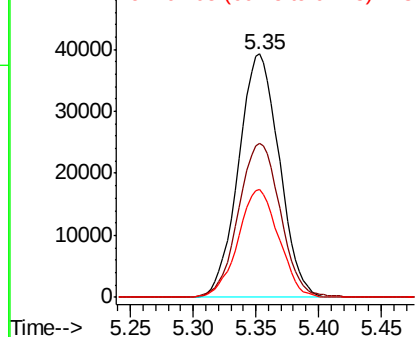
#29
 1,1,1-Trichloroethane
 Concen: 3.024 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE7

Tot Ion: 97 Resp: 88528
 Ion Ratio Lower Upper
 97 100
 99 65.3 52.2 78.2
 61 44.2 35.4 53.2

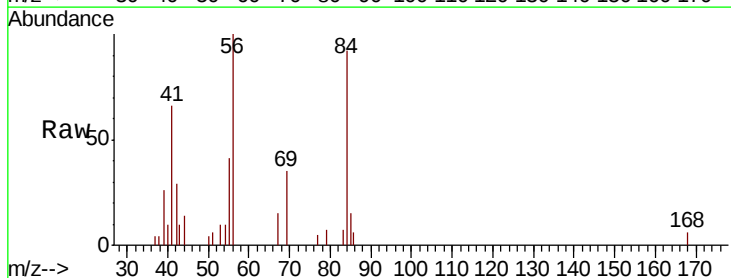


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

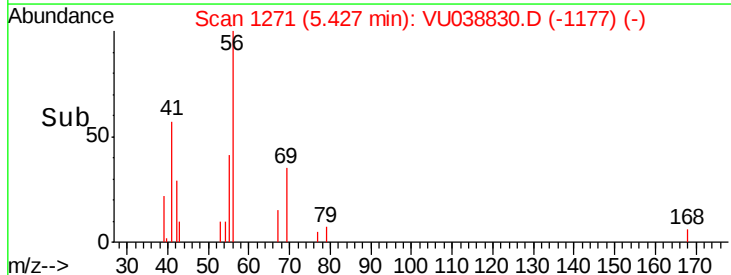
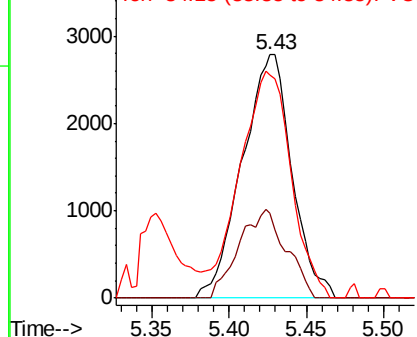


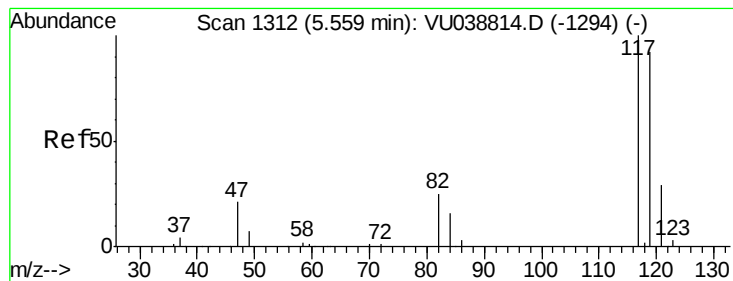
#30
 Cyclohexane
 Concen: 0.203 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

Tgt Ion: 56 Resp: 6224
 Ion Ratio Lower Upper
 56 100
 69 34.5 24.2 36.4
 84 96.8 70.8 106.2



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





#31

Carbon tetrachloride

Concen: 0.428 ug/L

RT: 5.35 min Scan# 1247

Delta R.T. -0.21 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

Instrument :

MSVOA_U

ClientSampleId :

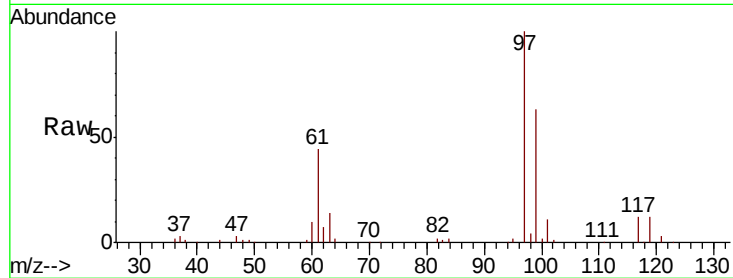
BFXE7

Tot Ion:117 Resp: 10441

Ion Ratio Lower Upper

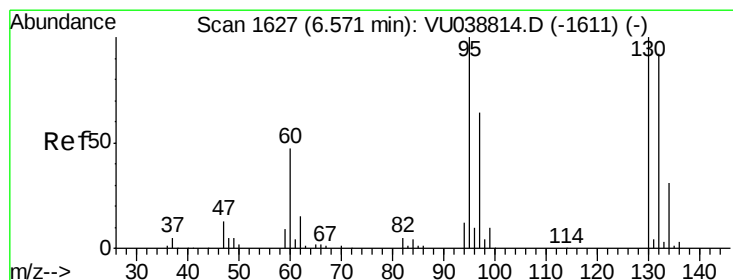
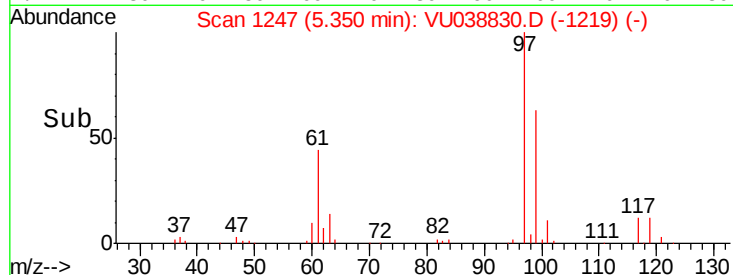
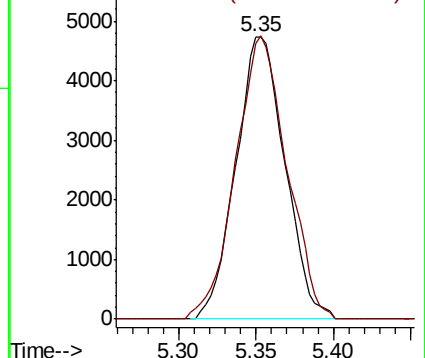
117 100

119 104.8 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 0.551 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

Tgt Ion: 95 Resp: 11031

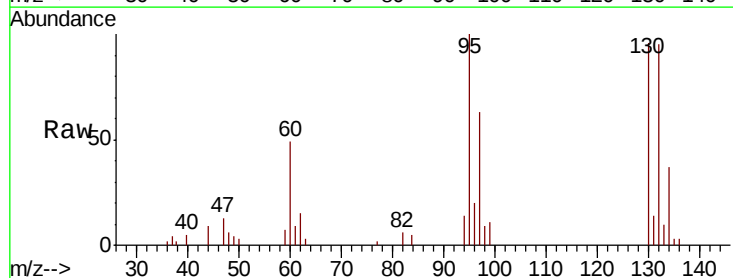
Ion Ratio Lower Upper

95 100

97 62.7 46.8 87.0

132 95.4 66.1 122.7

130 96.4 70.0 130.0

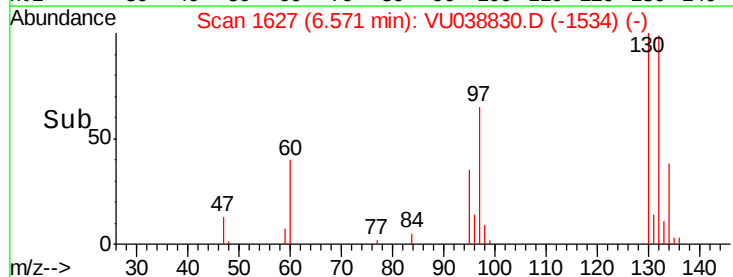
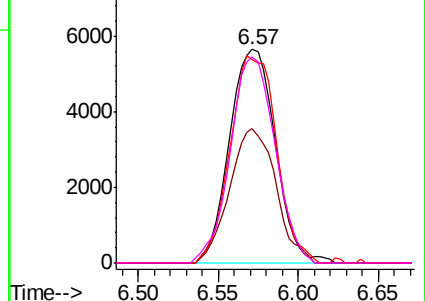


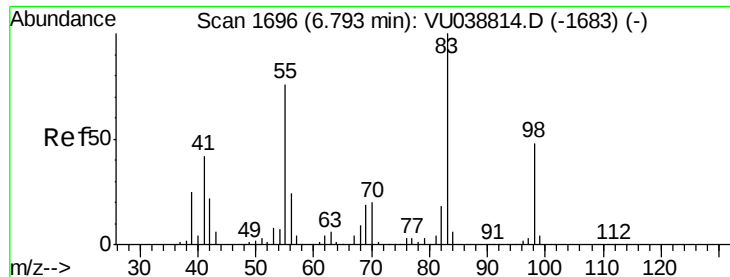
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

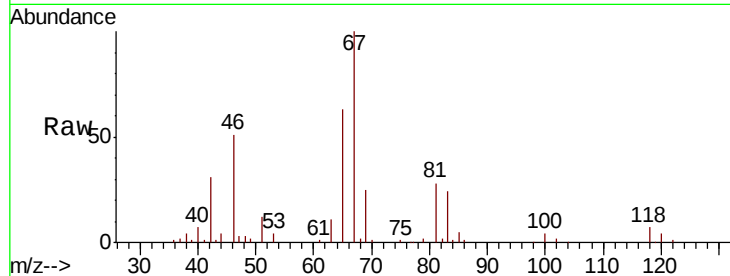




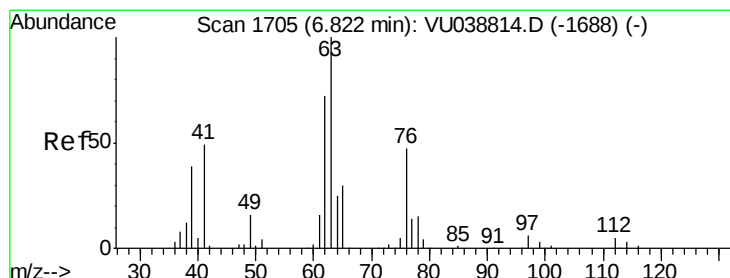
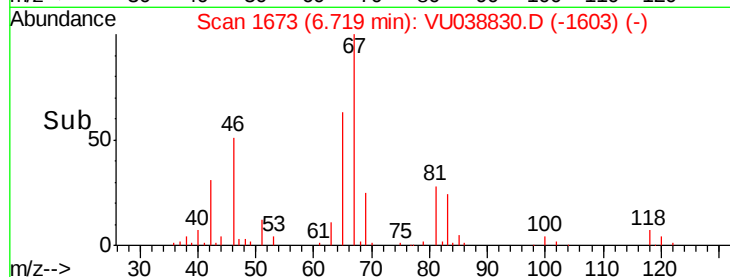
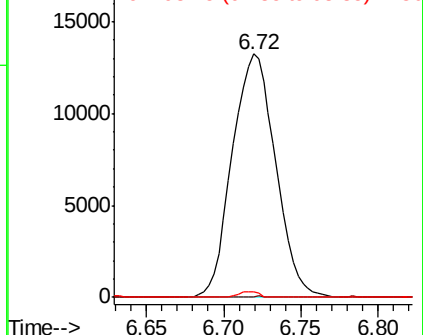
#35
Methvlcvclohexane
Concen: 0.831 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.07 min
Lab File: VU038830.D
Acq: 11 Jun 2020 17:20

Instrument :
MSVOA_U
ClientSampleId :
BFXE7

Tot Ion: 83 Resp: 25748
Ion Ratio Lower Upper
83 100
55 0.1 63.4 95.2#
98 1.0 39.0 58.4#

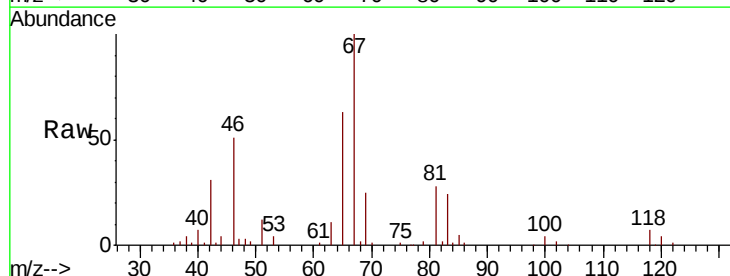


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

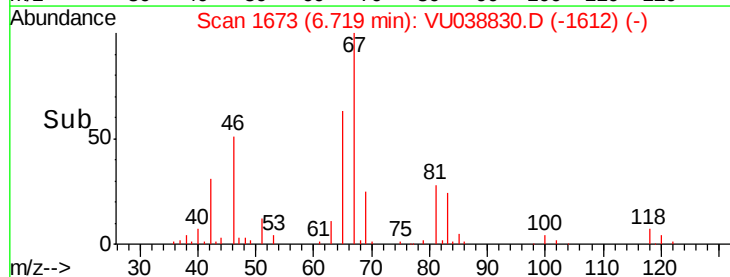
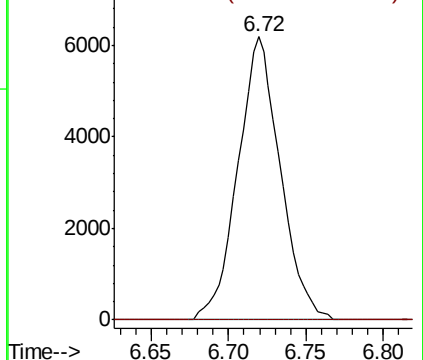


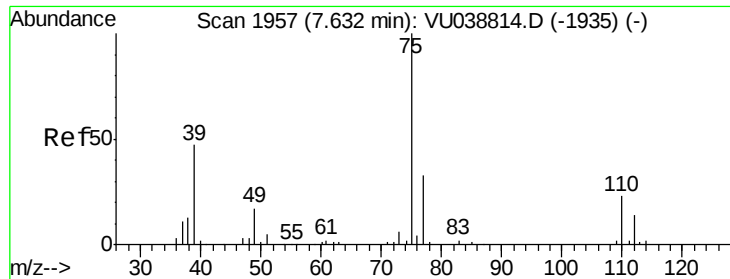
#37
1,2-Dichloropropane
Concen: 0.607 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU038830.D
Acq: 11 Jun 2020 17:20

Tgt Ion: 63 Resp: 11784
Ion Ratio Lower Upper
63 100
112 0.0 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

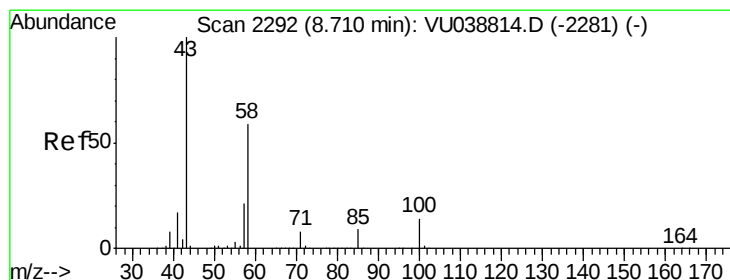
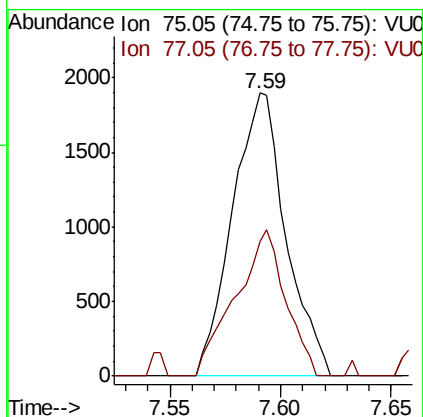
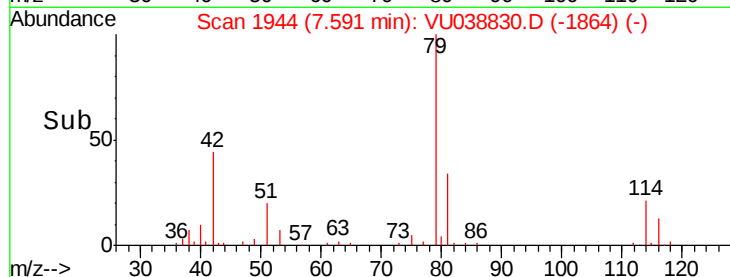
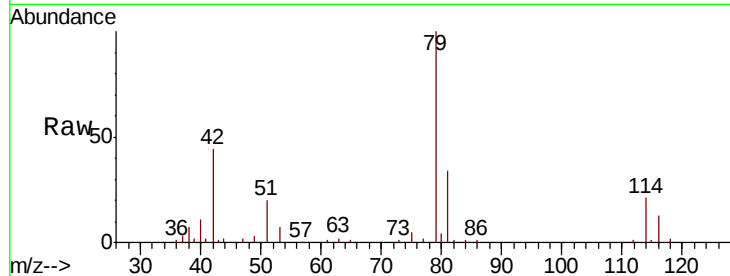




#39
 cis-1,3-Dichloropropene
 Concen: 0.111 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

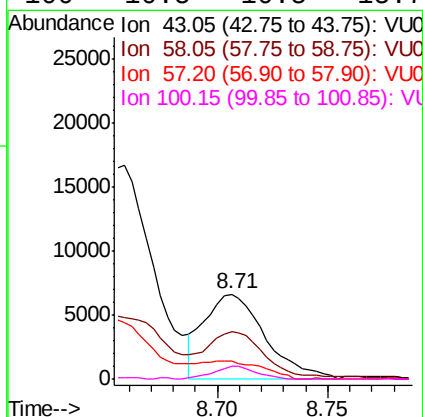
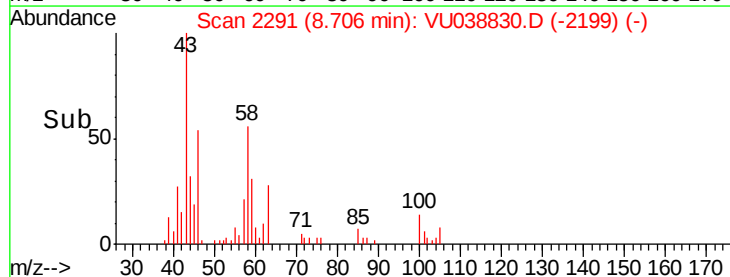
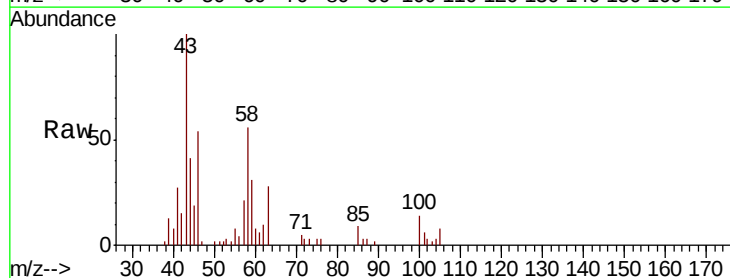
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE7

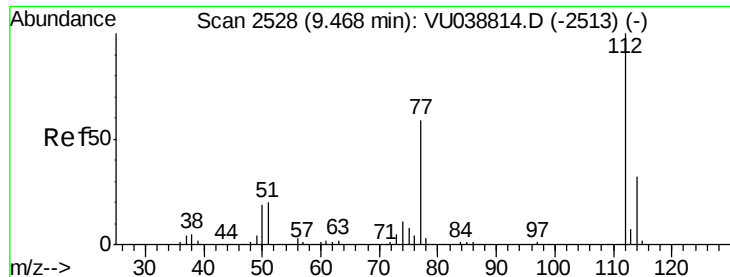
Tot Ion: 75 Resp: 3195
 Ion Ratio Lower Upper
 75 100
 77 47.8 21.9 40.7#



#48
 2-Hexanone
 Concen: 1.201 ug/L
 RT: 8.71 min Scan# 2291
 Delta R.T. -0.00 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

Tgt Ion: 43 Resp: 12623
 Ion Ratio Lower Upper
 43 100
 58 56.3 45.4 68.0
 57 16.5 15.9 23.9
 100 10.5 10.5 15.7#





#51

Chlorobenzene

Concen: 0.604 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038830.D

Acq: 11 Jun 2020 17:20

Instrument :

MSVOA_U

ClientSampleId :

BFXE7

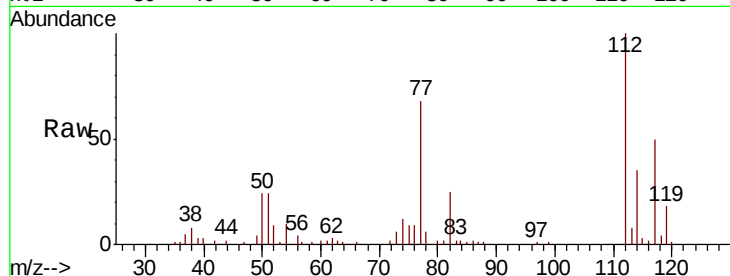
Tot Ion:112 Resp: 31493

Ion Ratio Lower Upper

112 100

114 34.6 22.4 41.6

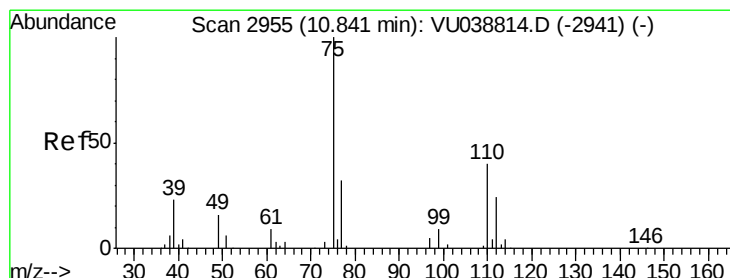
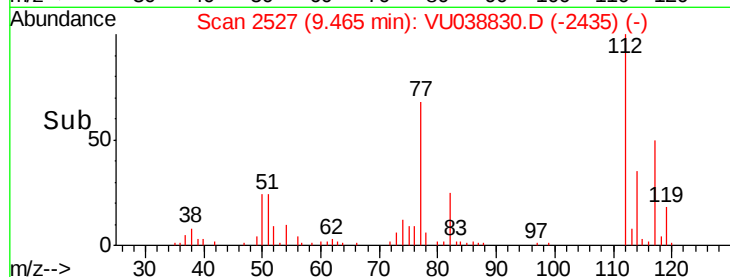
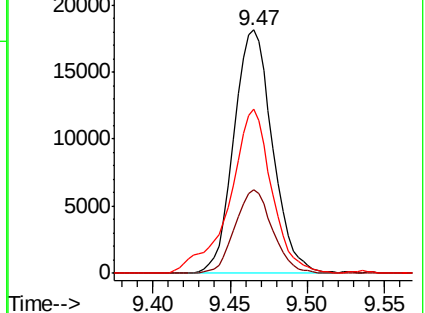
77 67.6 47.1 70.7



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): VU



#59

1,2,3-Trichloropropane

Concen: 1.213 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.98 min

Lab File: VU038830.D

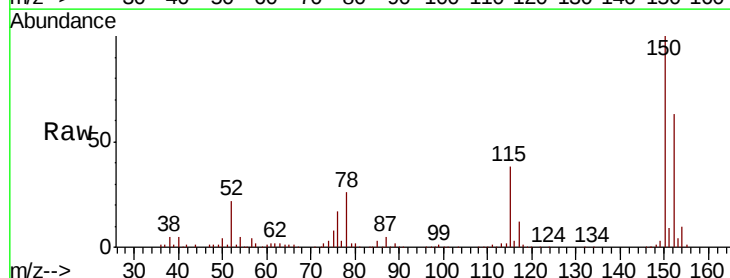
Acq: 11 Jun 2020 17:20

Tgt Ion: 75 Resp: 17574

Ion Ratio Lower Upper

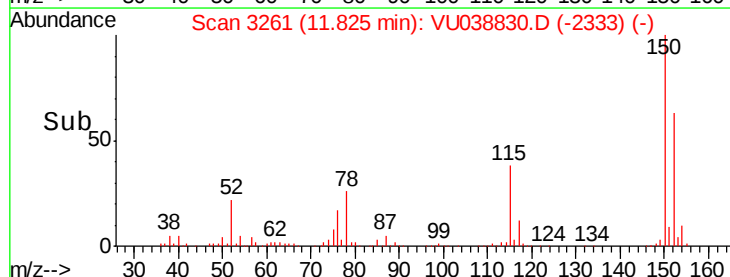
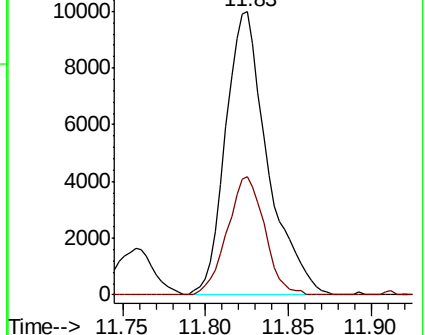
75 100

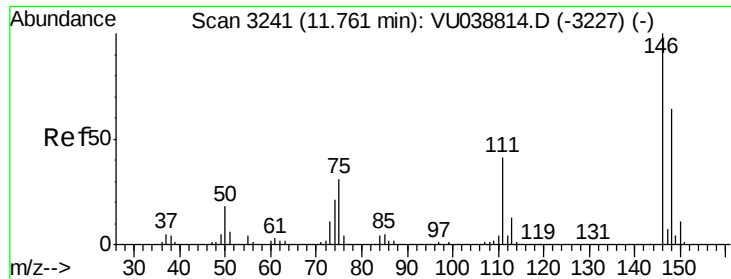
77 37.2 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

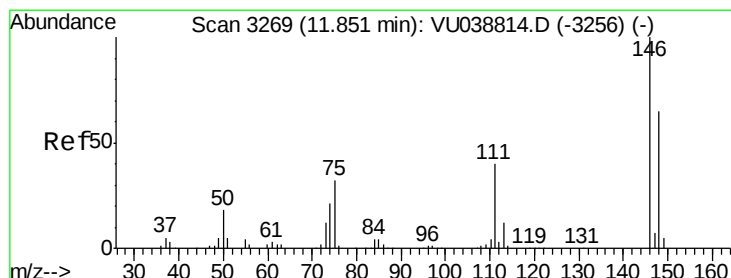
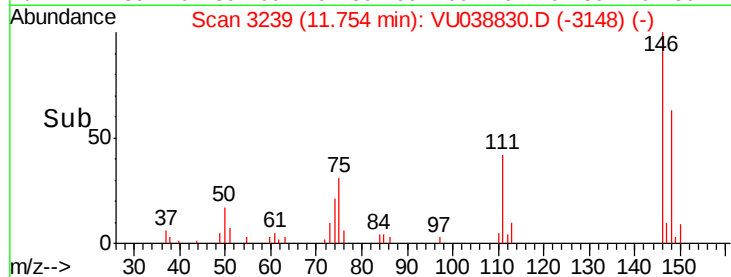
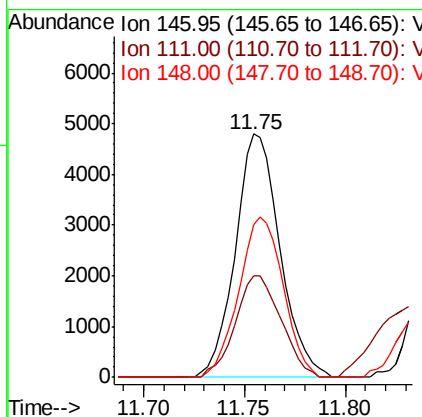
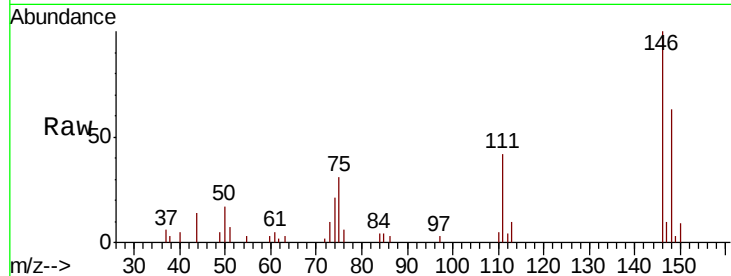




#62
 1,3-Dichlorobenzene
 Concen: 0.197 ug/L
 RT: 11.75 min Scan# 3239
 Delta R.T. -0.01 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

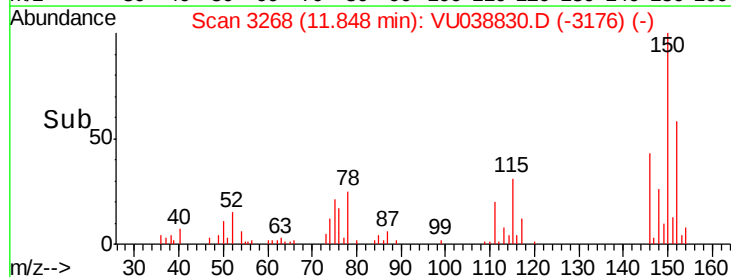
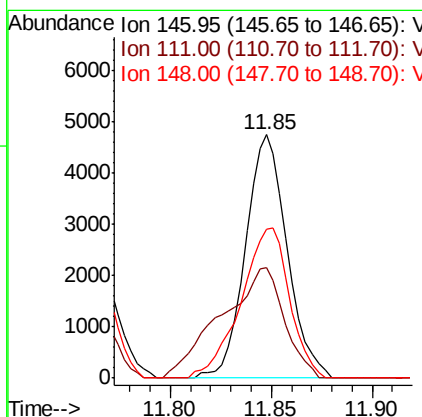
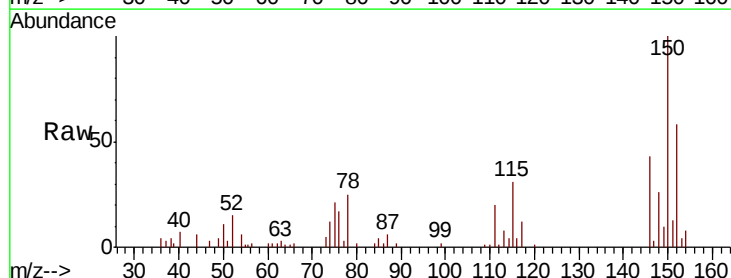
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE7

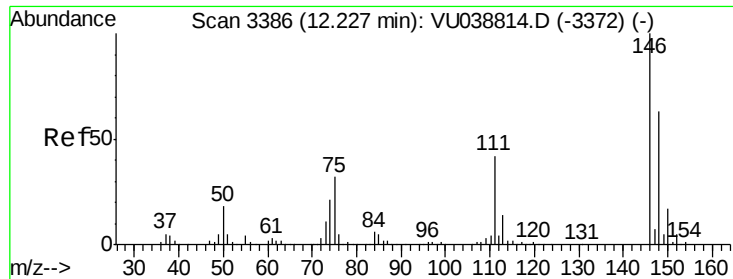
Tot Ion:146 Resp: 7438
 Ion Ratio Lower Upper
 146 100
 111 41.9 29.5 54.9
 148 62.6 45.6 84.6



#63
 1,4-Dichlorobenzene
 Concen: 0.178 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

Tgt Ion:146 Resp: 6849
 Ion Ratio Lower Upper
 146 100
 111 45.3 27.6 51.2
 148 60.9 44.8 83.2

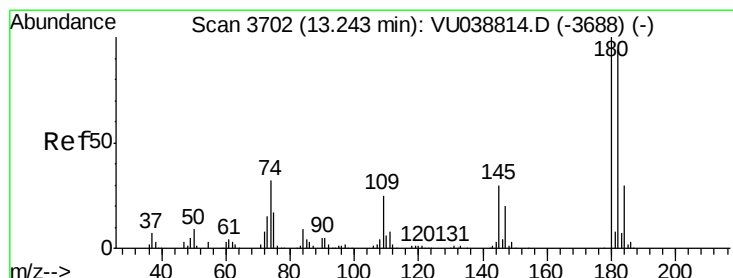
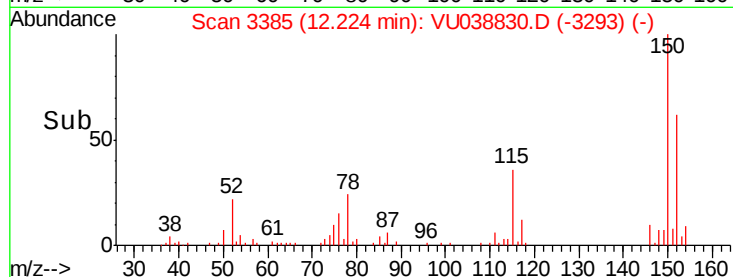
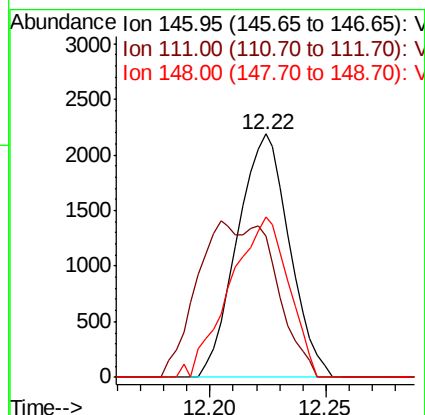
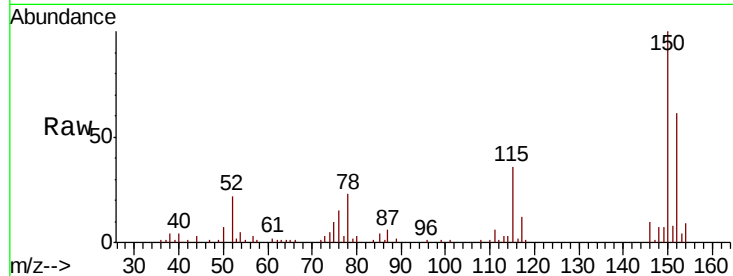




#65
 1,2-Dichlorobenzene
 Concen: 0.095 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. -0.00 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

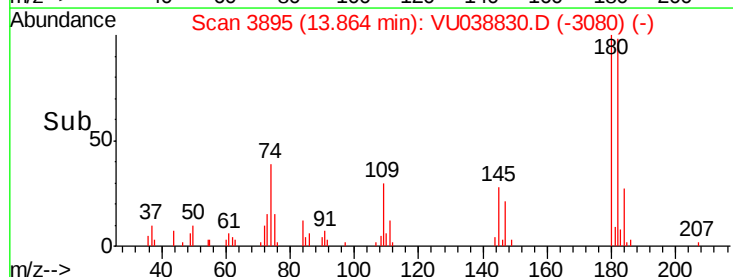
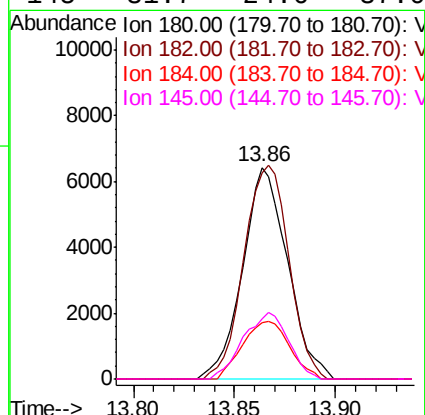
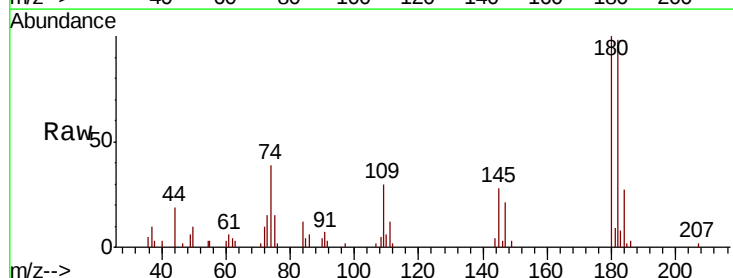
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE7

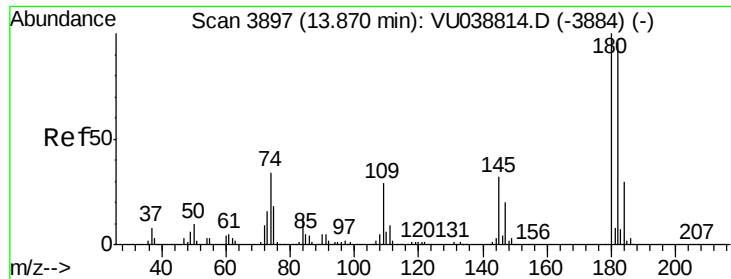
Tot Ion:146 Resp: 3415
 Ion Ratio Lower Upper
 146 100
 111 57.7 35.1 52.7#
 148 66.1 50.9 76.3



#67
 1,3,5-Trichlorobenzene
 Concen: 0.355 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.62 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

Tgt Ion:180 Resp: 10030
 Ion Ratio Lower Upper
 180 100
 182 100.9 76.8 115.2
 184 28.5 25.1 37.7
 145 31.7 24.6 37.0

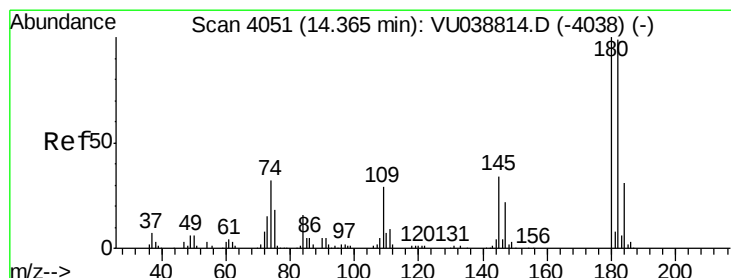
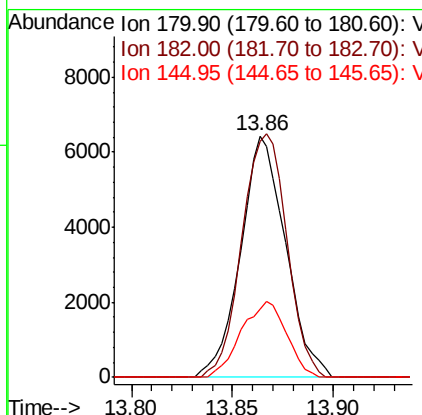
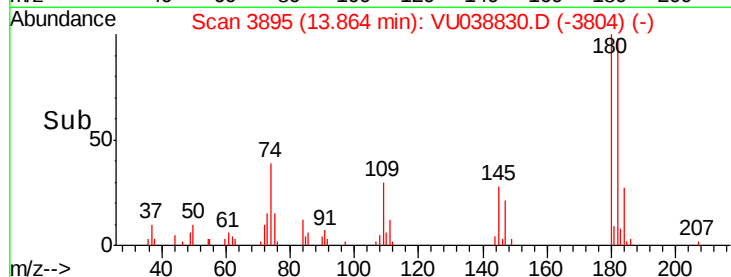
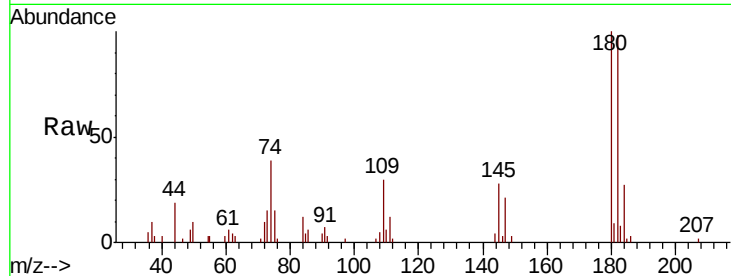




#68
 1,2,4-trichlorobenzene
 Concen: 0.384 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXE7

Tot Ion:180 Resp: 10030
 Ion Ratio Lower Upper
 180 100
 182 100.9 75.8 113.8
 145 31.7 25.3 37.9



#70
 1,2,3-Trichlorobenzene
 Concen: 0.383 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU038830.D
 Acq: 11 Jun 2020 17:20

Tgt Ion:180 Resp: 9117
 Ion Ratio Lower Upper
 180 100
 182 87.6 78.7 118.1
 145 27.6 27.5 41.3

