

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031220\
 Data File : VU037186.D
 Acq On : 12 Mar 2020 13:25
 Operator : JC/MD
 Sample : VSTD05035
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 13 06:55:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 13 06:53:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	415706	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	409605	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	205941	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	166110	51.63	ug/L	0.00
7) Chloroethane-d5	1.93	69	135727	52.33	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	301319	51.05	ug/L	0.00
21) 2-Butanone-d5	4.67	46	263823	103.62	ug/L	0.00
24) Chloroform-d	5.10	84	322326	52.11	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	238719	52.72	ug/L	0.00
32) Benzene-d6	5.76	84	586992	52.06	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	191689	51.93	ug/L	0.00
41) Toluene-d8	7.92	98	564001	52.32	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	104032	51.78	ug/L	0.00
47) 2-Hexanone-d5	8.66	63	202286	105.86	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	289514	50.64	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	217422	50.90	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	208822	49.155	ug/L 100
3) Chloromethane	1.54	50	164740	47.416	ug/L 100
5) Vinyl chloride	1.62	62	187073	49.133	ug/L 100
6) Bromomethane	1.87	94	70774	48.425	ug/L 100
8) Chloroethane	1.95	64	108415	48.603	ug/L 100
9) Trichlorofluoromethane	2.16	101	290566	49.982	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	137243	50.549	ug/L 100
12) 1,1-Dichloroethene	2.60	96	122047	49.748	ug/L 100
13) Acetone	2.65	43	236760	98.010	ug/L 100
14) Carbon disulfide	2.82	76	341681	49.124	ug/L 100
15) Methyl Acetate	2.98	43	187950	49.467	ug/L 100
16) Methylene chloride	3.08	84	149969	48.975	ug/L 100
17) trans-1,2-Dichloroethene	3.39	96	129210	50.270	ug/L 100
18) Methyl tert-butyl Ether	3.40	73	495889	49.959	ug/L 100
19) 1,1-Dichloroethane	3.91	63	289496	50.335	ug/L 100
20) cis-1,2-Dichloroethene	4.71	96	154336	49.642	ug/L 100
22) 2-Butanone	4.74	43	306076	100.179	ug/L 100
23) Bromochloromethane	5.01	128	77068	49.157	ug/L 100
25) Chloroform	5.13	83	305427	49.110	ug/L 100
27) 1,2-Dichloroethane	5.83	62	272495	49.174	ug/L 100
29) Cyclohexane	5.42	56	244746	50.543	ug/L 100
30) 1,1,1-Trichloroethane	5.36	97	272283	50.081	ug/L 100
31) Carbon tetrachloride	5.56	117	240730	50.113	ug/L 100
33) Benzene	5.81	78	608651	50.413	ug/L 100
34) Trichloroethene	6.57	95	153551	48.944	ug/L 100
35) Methylcyclohexane	6.79	83	239199	50.360	ug/L 100
37) 1,2-Dichloropropane	6.82	63	168912	49.220	ug/L 100
38) Bromodichloromethane	7.13	83	238306	49.669	ug/L 100
39) cis-1,3-Dichloropropene	7.63	75	268464	50.452	ug/L 100
40) 4-Methyl-2-pentanone	7.82	43	559354	100.125	ug/L 100

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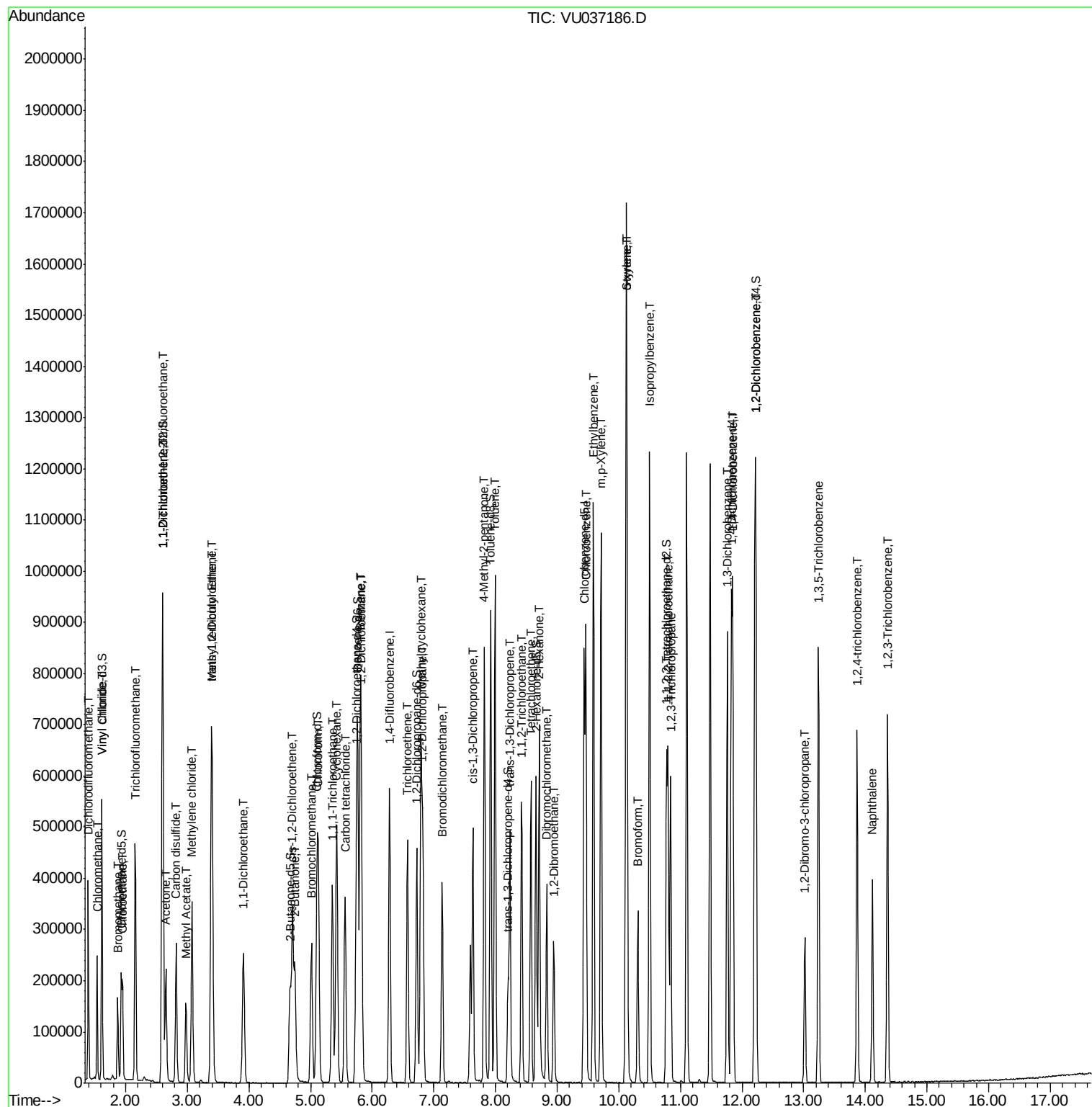
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	662443	50.245	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	254567	50.669	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	154079	49.309	ug/L	100
46) Tetrachloroethene	8.57	164	117001	50.199	ug/L	100
48) 2-Hexanone	8.71	43	447912	101.741	ug/L	100
49) Dibromochloromethane	8.83	129	184779	50.263	ug/L	100
50) 1,2-Dibromoethane	8.95	107	169073	50.138	ug/L	100
51) Chlorobenzene	9.47	112	406088	48.977	ug/L	100
52) Ethylbenzene	9.59	91	762957	49.977	ug/L	100
53) m,p-Xylene	9.71	106	273839	50.715	ug/L	100
54) o-xylene	10.12	106	268597	50.349	ug/L	100
55) Styrene	10.13	104	459460	50.787	ug/L	100
56) Isopropylbenzene	10.50	105	744562	50.214	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	279610	49.022	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	239035	50.107	ug/L	100
61) Bromoform	10.31	173	142804	49.647	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	322598	49.422	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	327091	49.580	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	328401	49.258	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	73633	50.096	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	236529	49.722	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	193942	52.211	ug/L	100
69) Naphthalene	14.11	128	298705	53.024	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	198339	50.881	ug/L	100

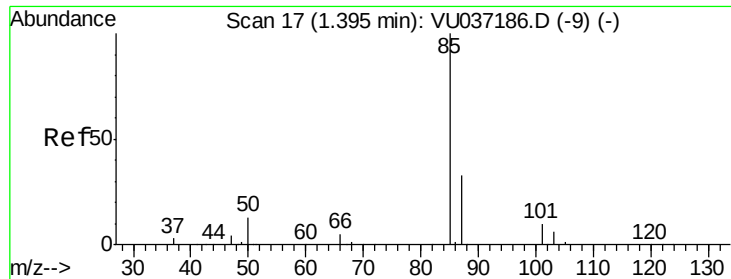
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.155 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

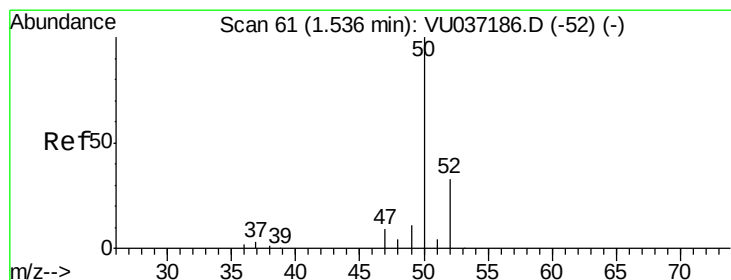
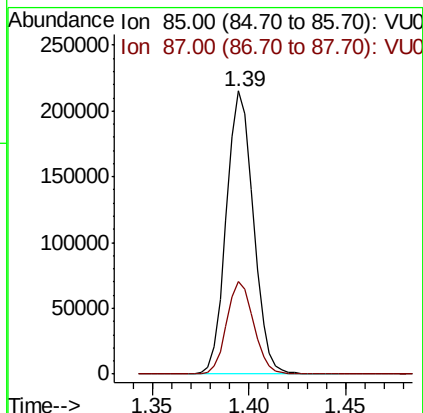
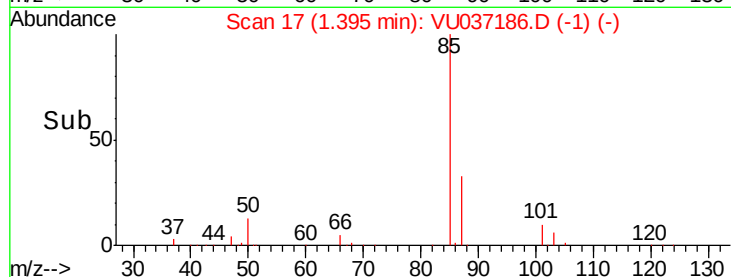
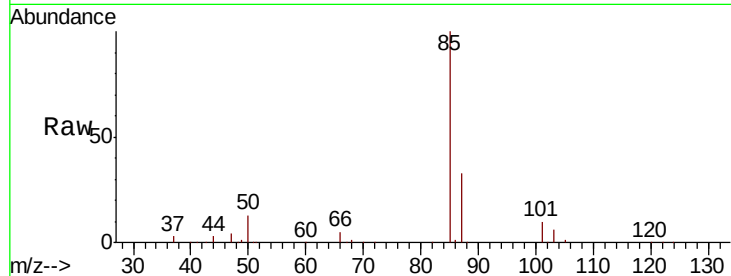
ClientSampleId :

Tot Ion: 85 Resp: 208822

Ion Ratio Lower Upper

85 100

87 32.6 26.1 39.1



#3

Chloromethane

Concen: 47.416 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037186.D

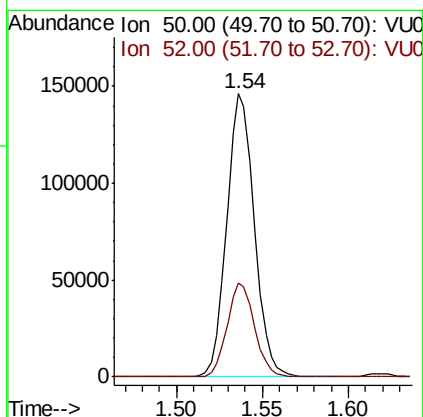
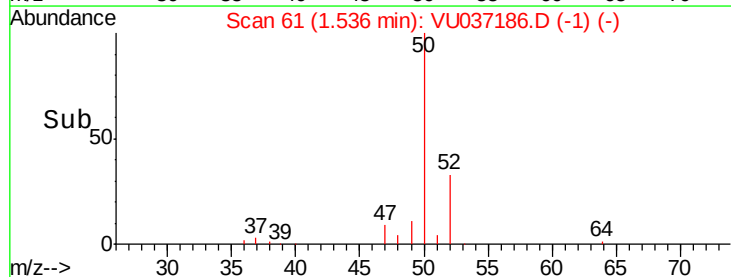
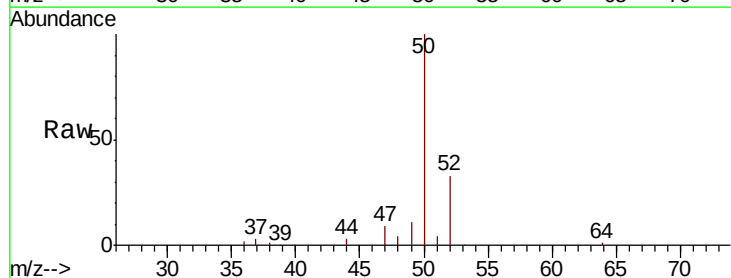
Acq: 12 Mar 2020 13:25

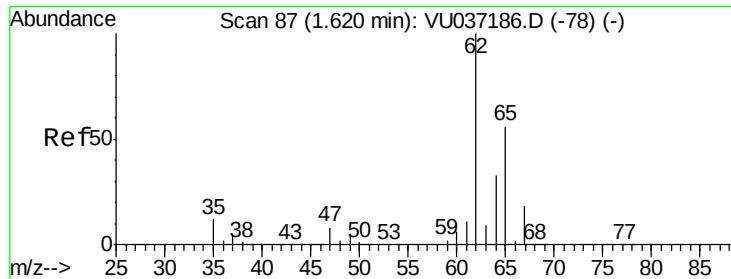
Tgt Ion: 50 Resp: 164740

Ion Ratio Lower Upper

50 100

52 33.1 23.2 43.0





#5

Vinyl chloride

Concen: 49.133 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

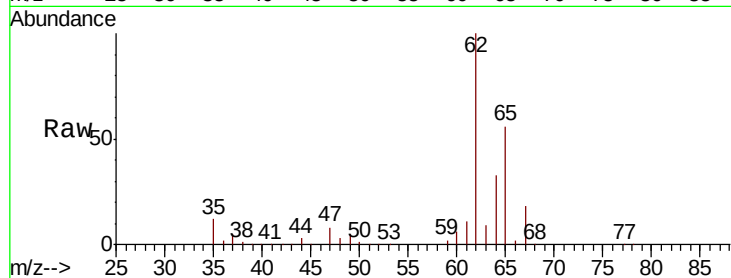
ClientSampleId :

Tot Ion: 62 Resp: 187073

Ion Ratio Lower Upper

62 100

64 33.0 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU037186.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037186.D (-78) (-)

1.62

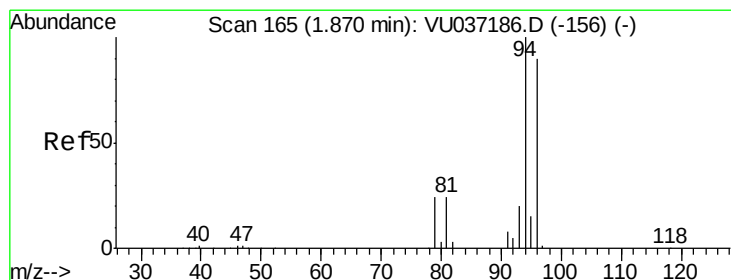
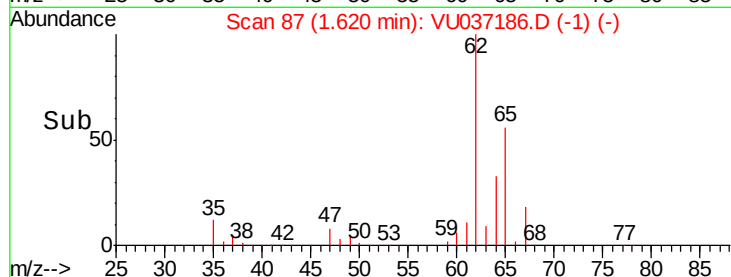
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 48.425 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037186.D

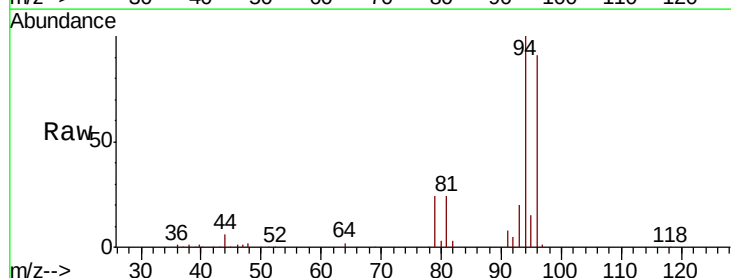
Acq: 12 Mar 2020 13:25

Tgt Ion: 94 Resp: 70774

Ion Ratio Lower Upper

94 100

96 90.7 63.5 117.9



Abundance Ion 94.00 (93.70 to 94.70): VU037186.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU037186.D (-156) (-)

1.87

60000

50000

40000

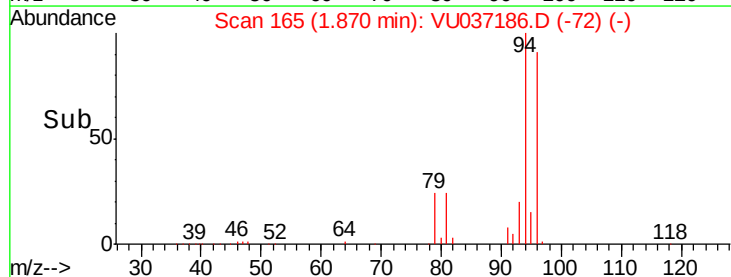
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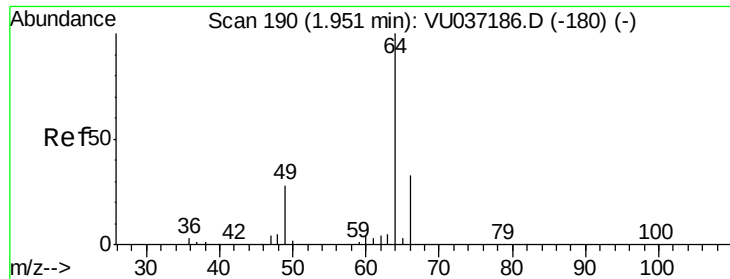
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Time-->

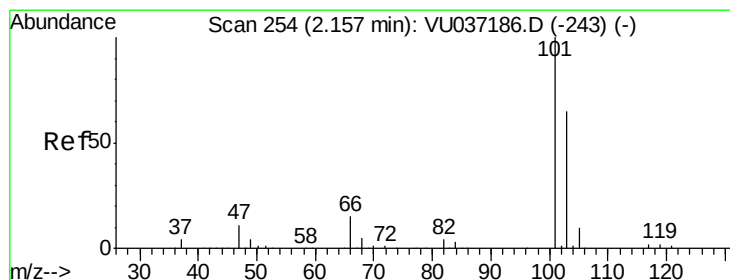
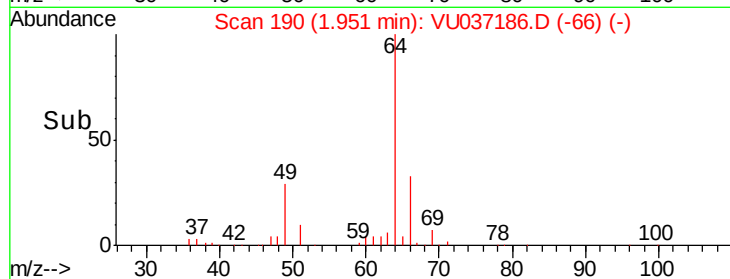
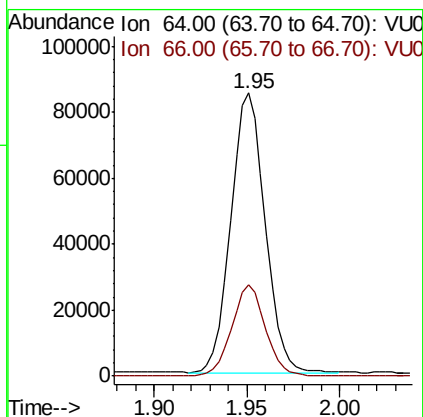
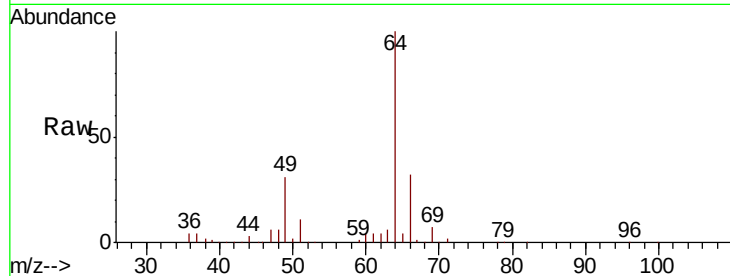




#8
Chloroethane
Concen: 48.603 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

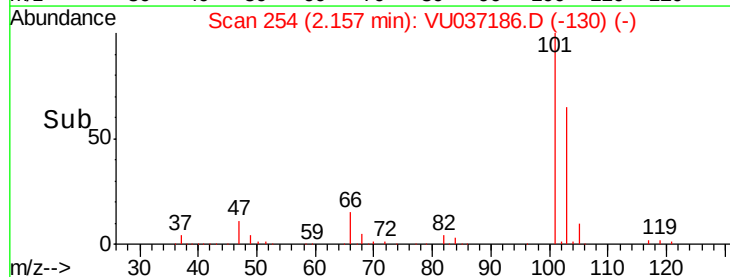
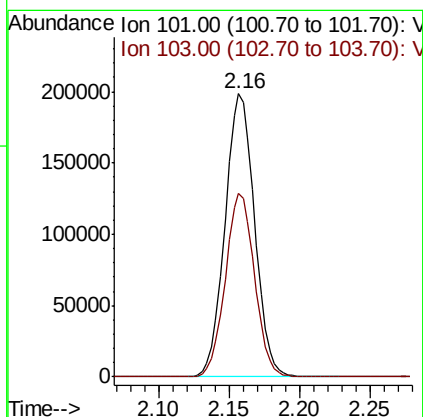
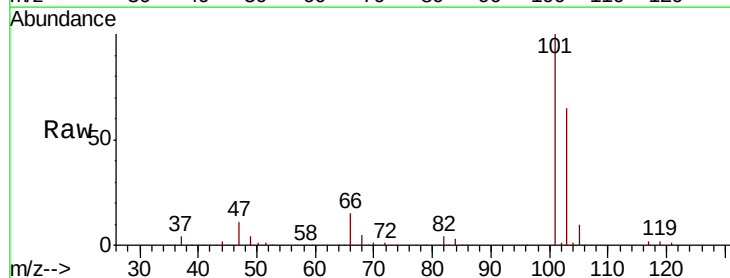
Instrument :
MSVOA_U
ClientSampleId :

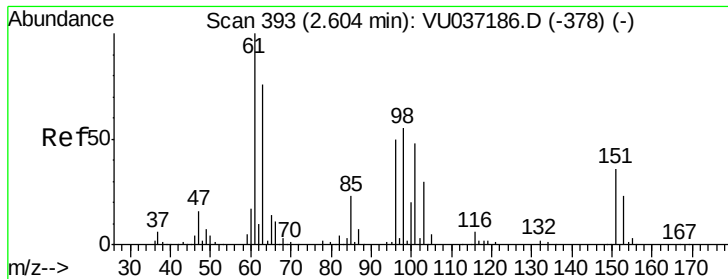
Tot Ion: 64 Resp: 108415
Ion Ratio Lower Upper
64 100
66 32.3 22.6 42.0



#9
Trichlorofluoromethane
Concen: 49.982 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Tgt Ion:101 Resp: 290566
Ion Ratio Lower Upper
101 100
103 63.9 51.1 76.7





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 50.549 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

ClientSampled :

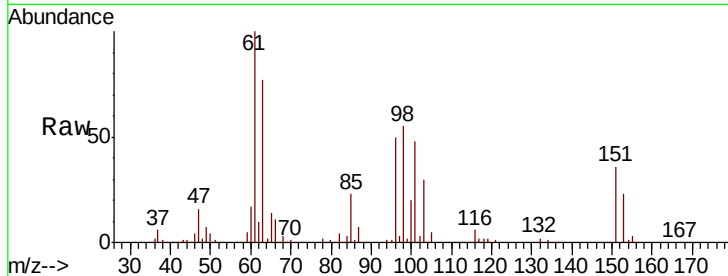
Tot Ion:101 Resp: 137243

Ion Ratio Lower Upper

101 100

85 47.2 37.8 56.6

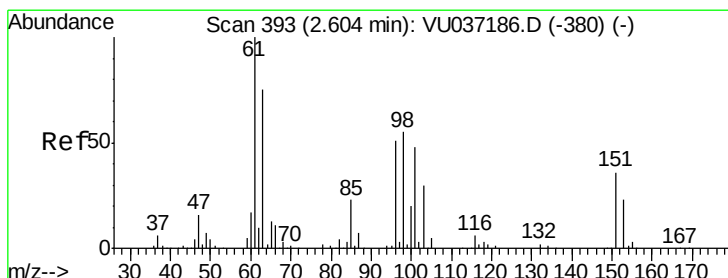
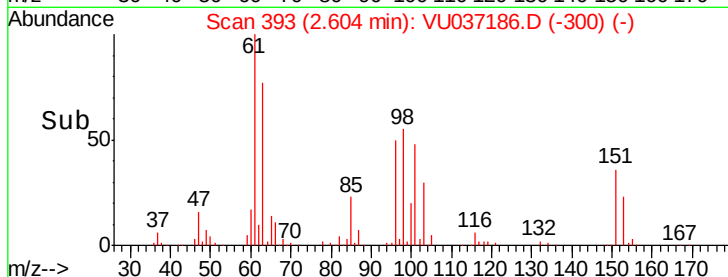
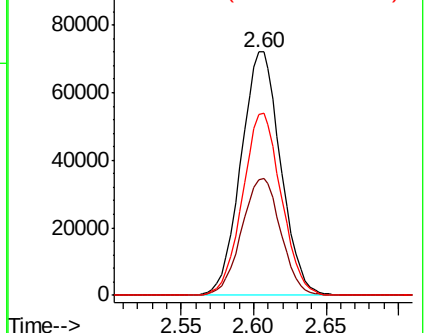
151 73.1 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.748 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

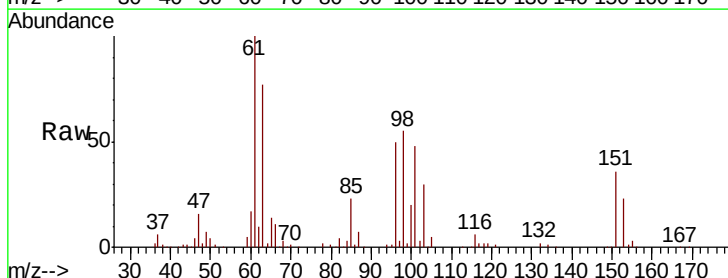
Tgt Ion: 96 Resp: 122047

Ion Ratio Lower Upper

96 100

61 198.3 138.8 257.8

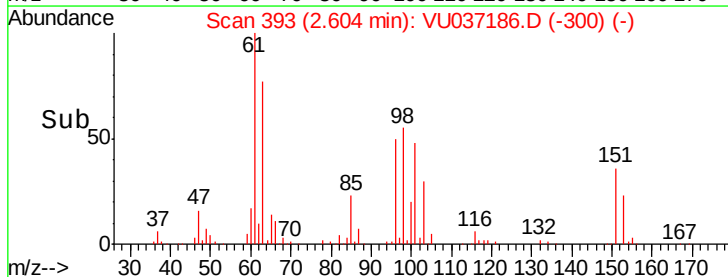
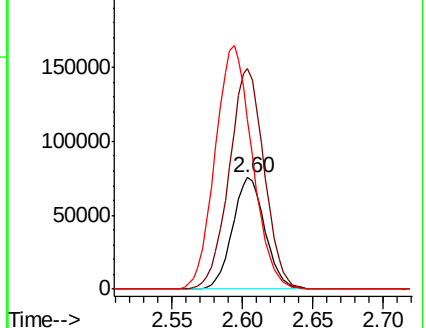
63 152.0 106.4 197.6

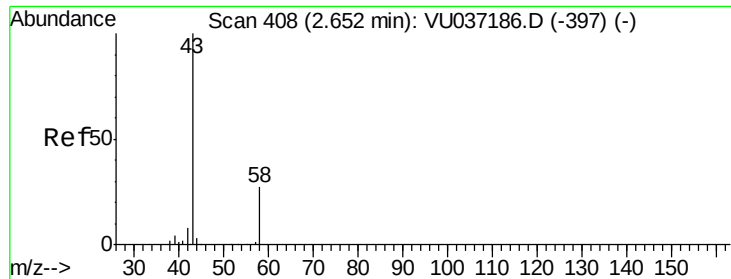


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 98.010 ug/L

RT: 2.65 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

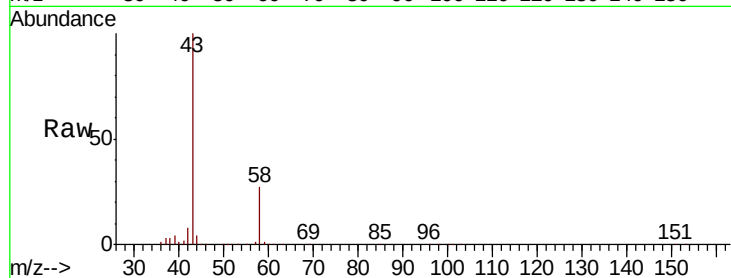
ClientSampleId :

Tot Ion: 43 Resp: 236760

Ion Ratio Lower Upper

43 100

58 28.6 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VU037186.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU037186.D (-397) (-)

2.65

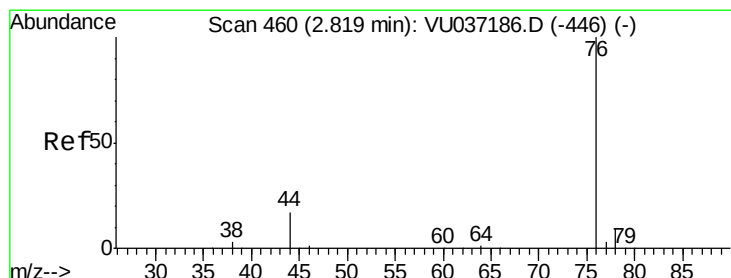
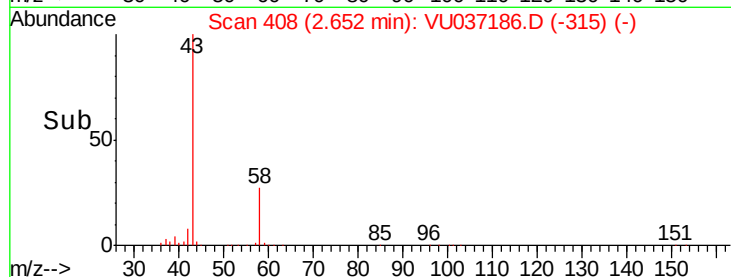
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 49.124 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037186.D

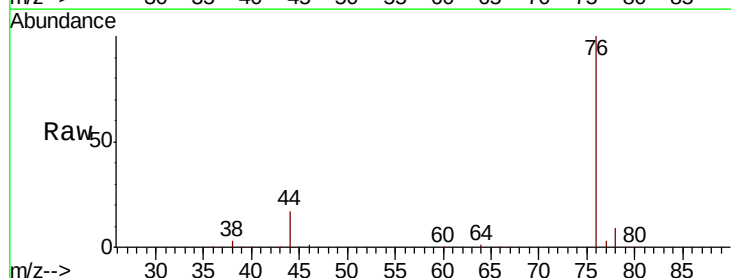
Acq: 12 Mar 2020 13:25

Tgt Ion: 76 Resp: 341681

Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU037186.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU037186.D (-446) (-)

2.82

200000

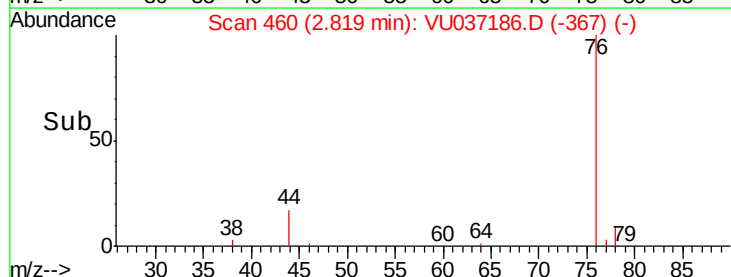
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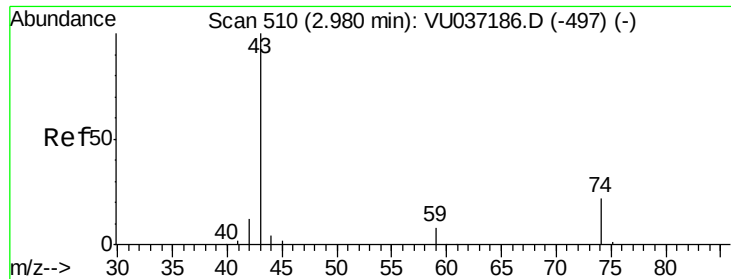
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Time-->

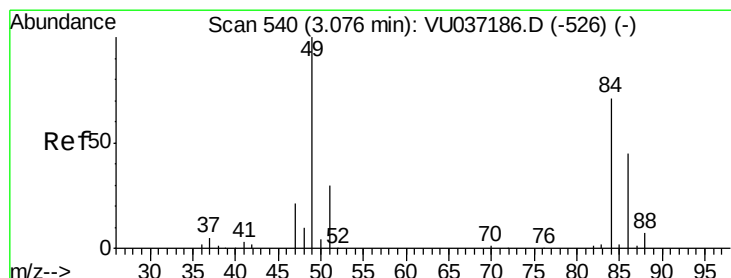
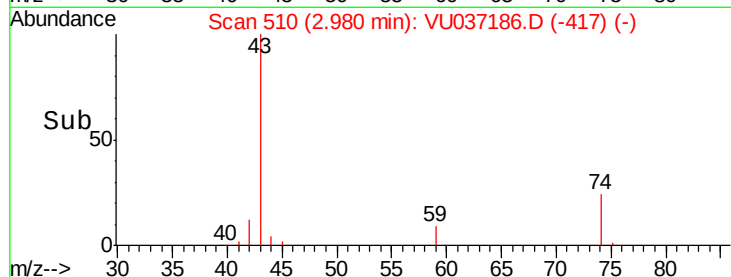
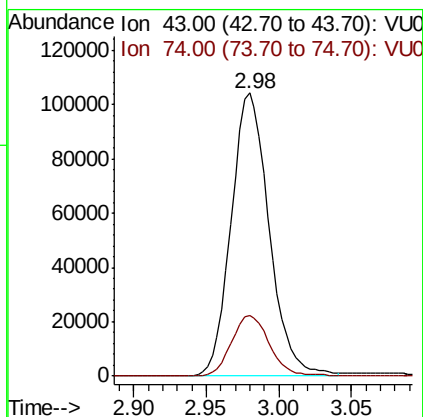
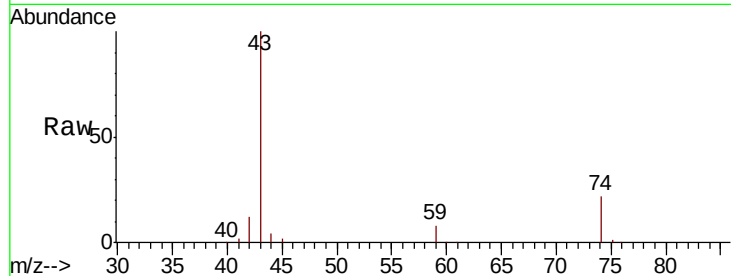




#15
Methvl Acetate
Concen: 49.467 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

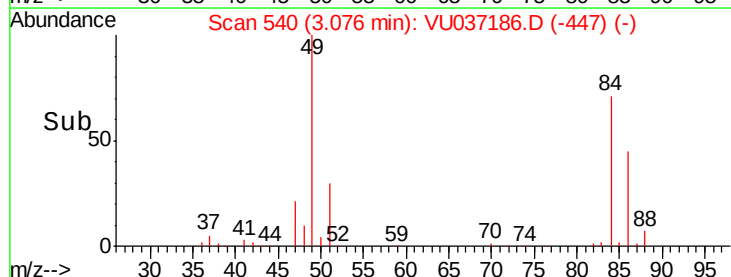
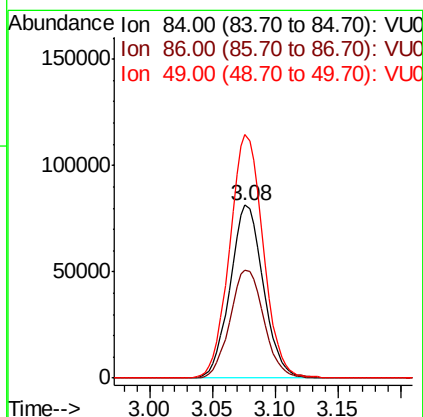
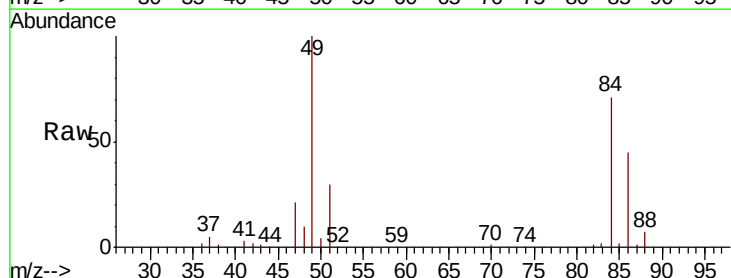
Instrument :
MSVOA_U
ClientSampleId :

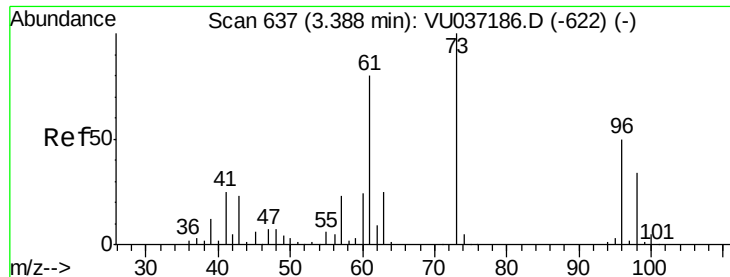
Tot Ion: 43 Resp: 187950
Ion Ratio Lower Upper
43 100
74 21.7 17.4 26.0



#16
Methylene chloride
Concen: 48.975 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Tgt Ion: 84 Resp: 149969
Ion Ratio Lower Upper
84 100
86 62.8 44.0 81.6
49 140.9 98.6 183.2

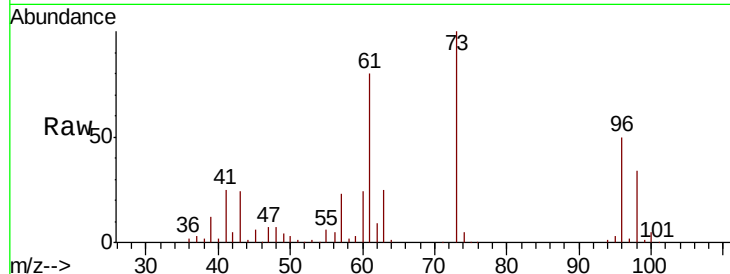




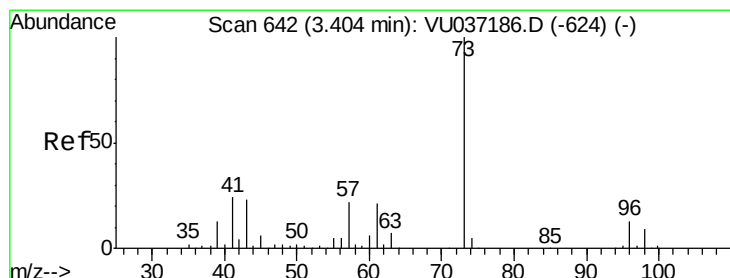
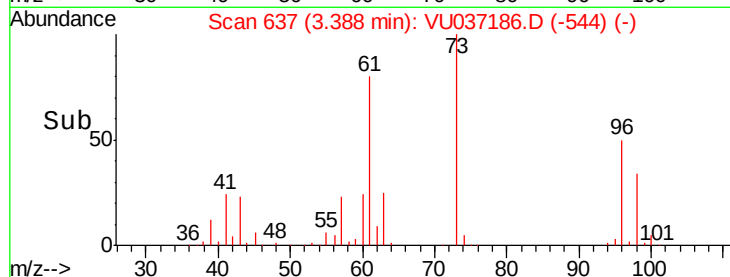
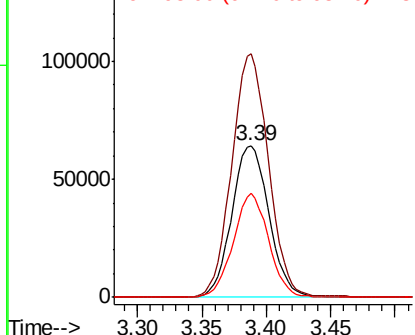
#17
trans-1,2-Dichloroethene
Concen: 50.270 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 129210
Ion Ratio Lower Upper
96 100
61 160.4 112.3 208.5
98 68.6 48.0 89.2

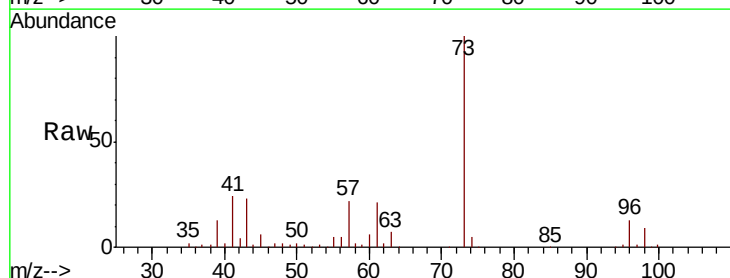


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

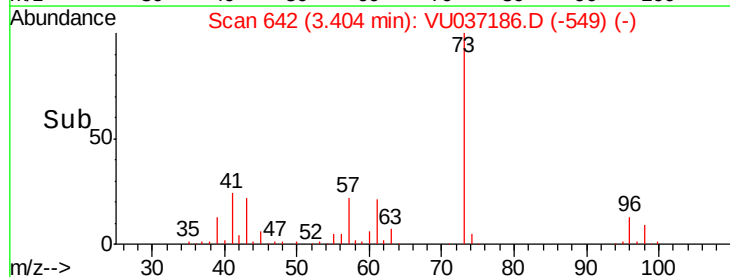
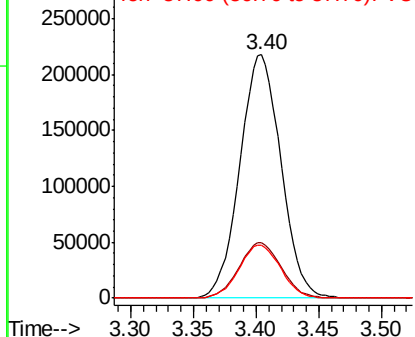


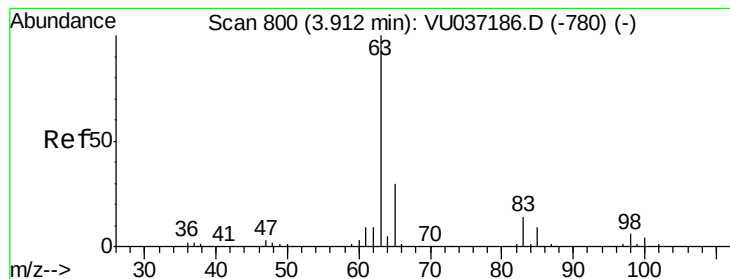
#18
Methyl tert-butyl Ether
Concen: 49.959 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Tgt Ion: 73 Resp: 495889
Ion Ratio Lower Upper
73 100
43 23.1 18.5 27.7
57 22.1 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 50.335 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

ClientSampleId :

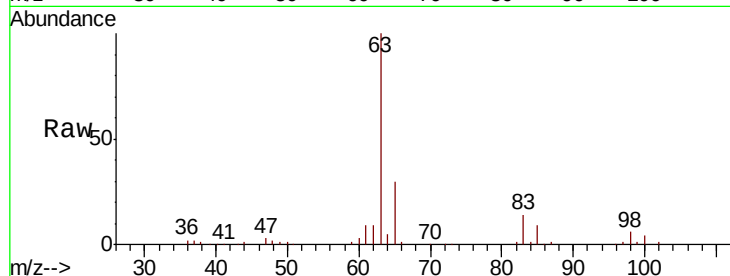
Tot Ion: 63 Resp: 289496

Ion Ratio Lower Upper

63 100

65 29.7 20.8 38.6

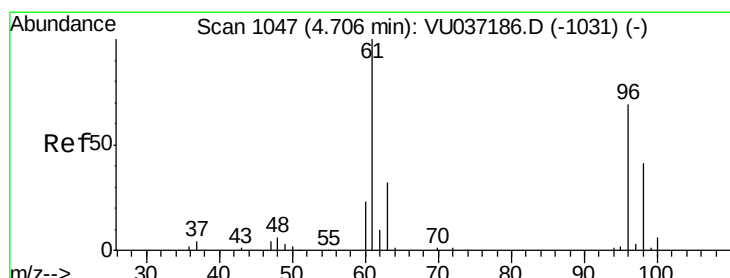
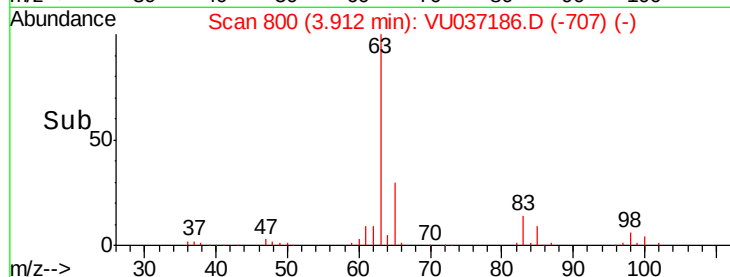
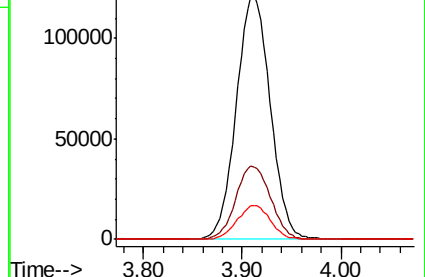
83 14.1 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU037186.D (-780) (-)

Ion 65.00 (64.70 to 65.70): VU037186.D (-780) (-)

Ion 83.00 (82.70 to 83.70): VU037186.D (-780) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.642 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

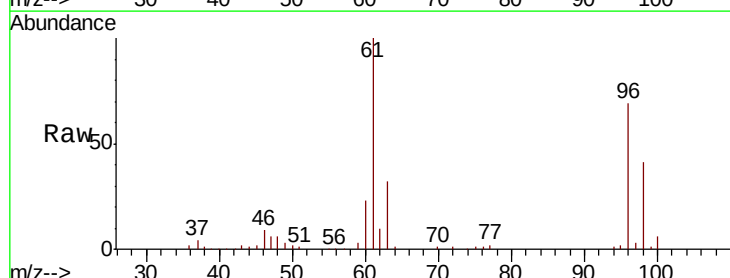
Tgt Ion: 96 Resp: 154336

Ion Ratio Lower Upper

96 100

61 144.5 101.2 187.8

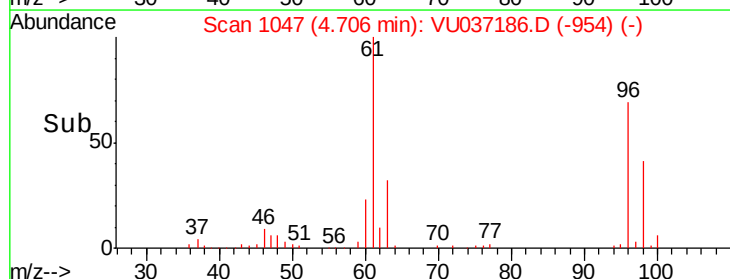
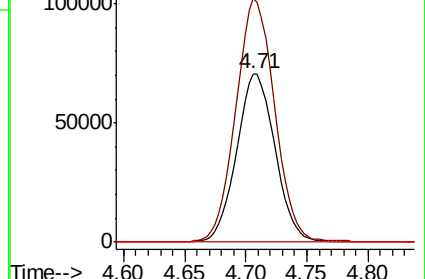
68 0.0 0.0 0.0

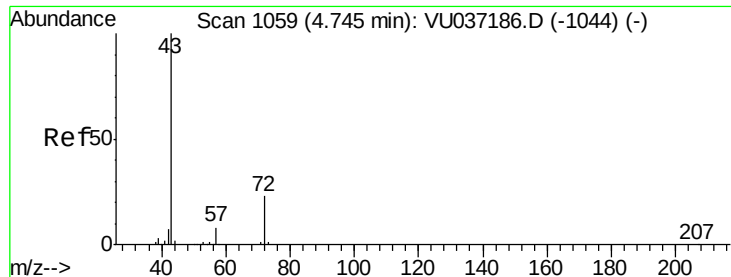


Abundance Ion 96.00 (95.70 to 96.70): VU037186.D (-1031) (-)

Ion 61.00 (60.70 to 61.70): VU037186.D (-1031) (-)

Ion 68.00 (67.70 to 68.70): VU037186.D (-1031) (-)





#22

2-Butanone

Concen: 100.179 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

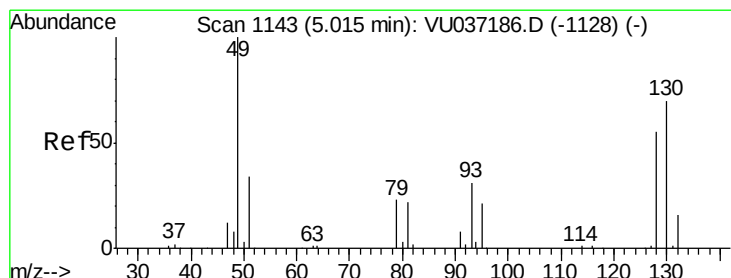
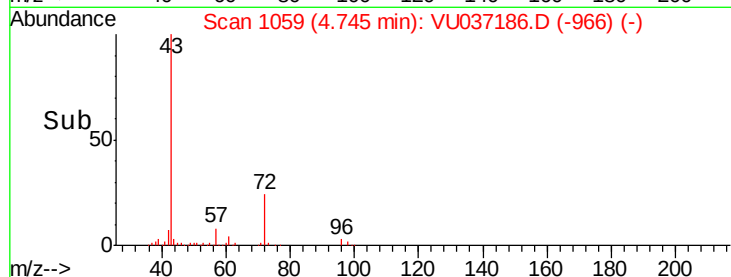
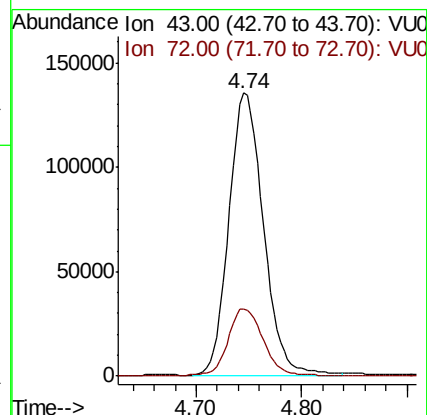
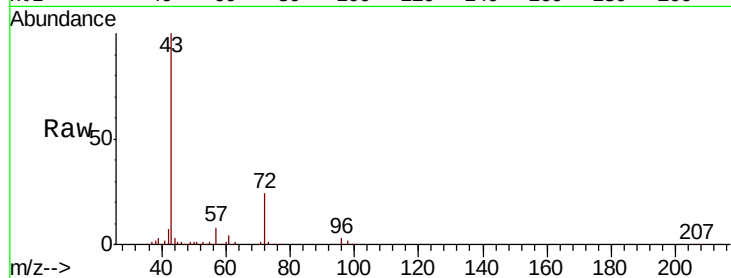
ClientSampled :

Tot Ion: 43 Resp: 306076

Ion Ratio Lower Upper

43 100

72 24.6 12.3 36.9



#23

Bromochloromethane

Concen: 49.157 ug/L

RT: 5.01 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Tgt Ion:128 Resp: 77068

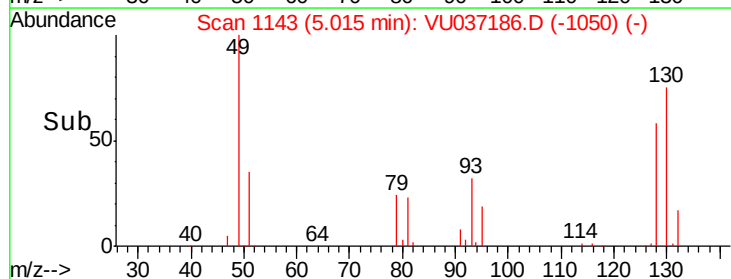
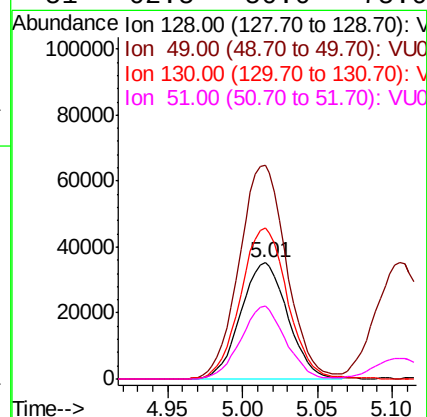
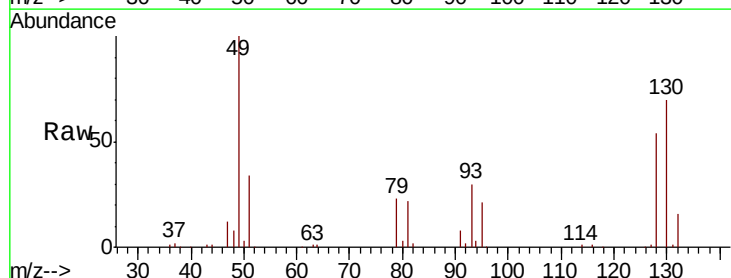
Ion Ratio Lower Upper

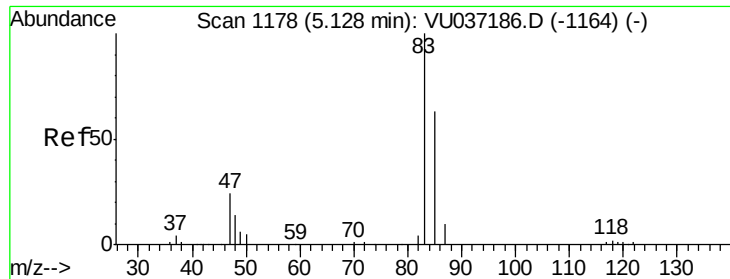
128 100

49 183.5 128.4 238.5

130 129.4 90.6 168.2

51 62.5 50.0 75.0

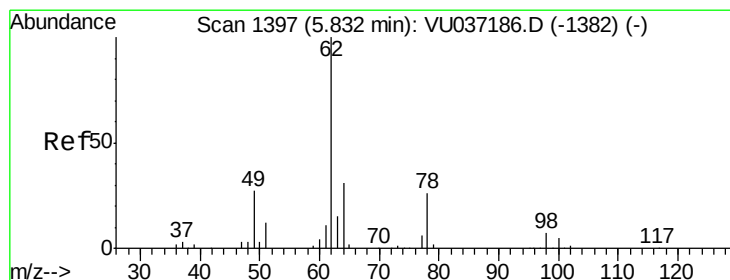
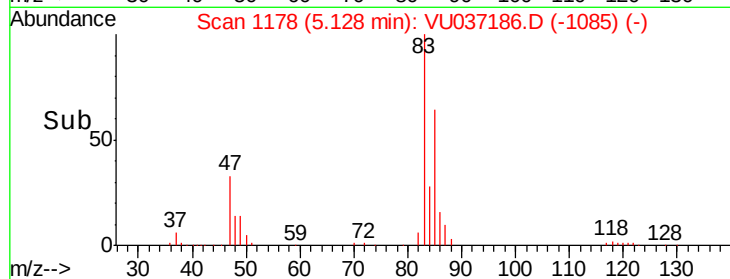
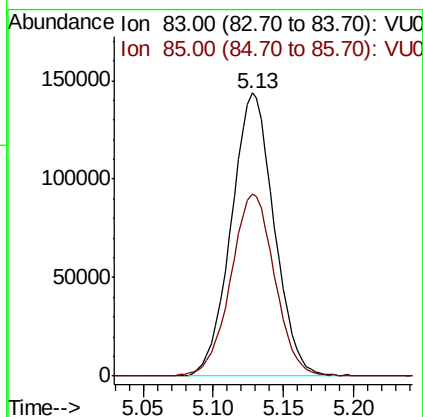
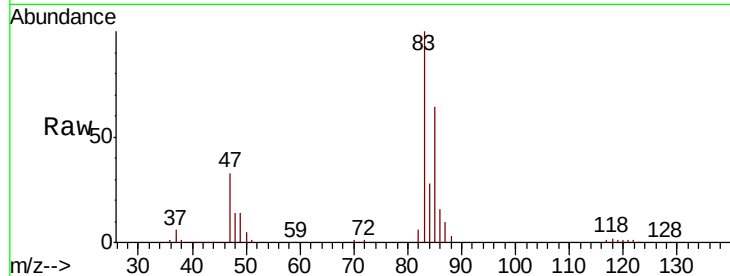




#25
Chloroform
Concen: 49.110 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

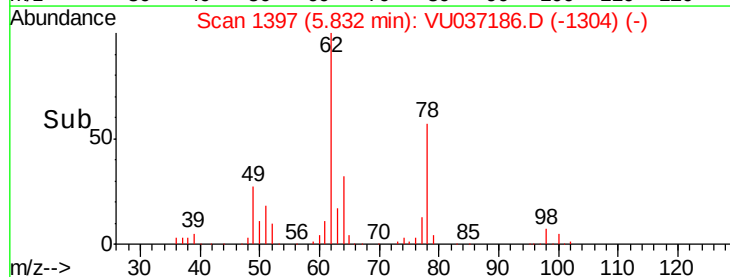
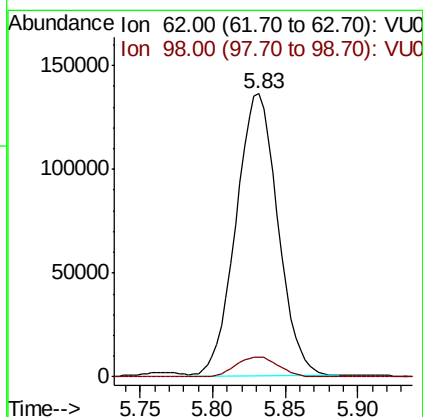
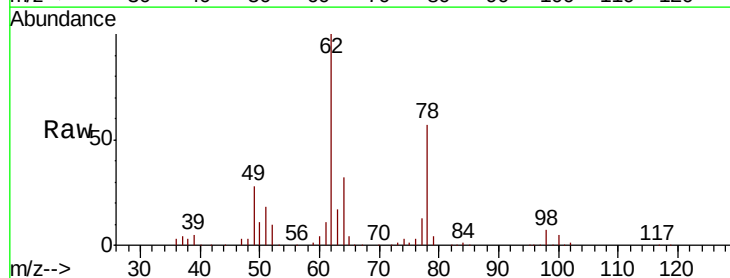
Instrument :
MSVOA_U
ClientSampleId :

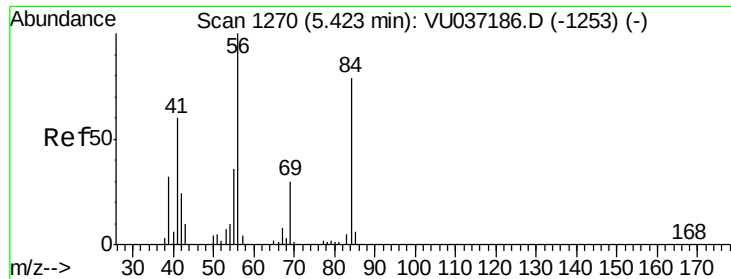
Tot Ion: 83 Resp: 305427
Ion Ratio Lower Upper
83 100
85 64.3 45.0 83.6



#27
1,2-Dichloroethane
Concen: 49.174 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Tgt Ion: 62 Resp: 272495
Ion Ratio Lower Upper
62 100
98 7.0 5.6 8.4

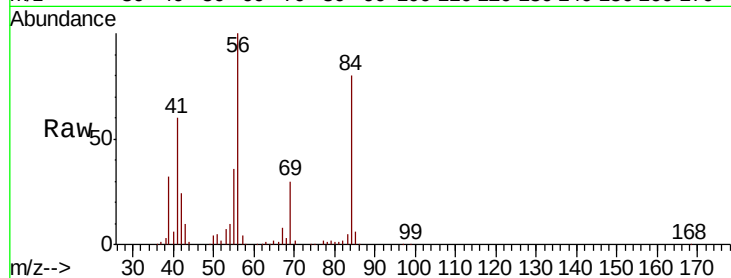




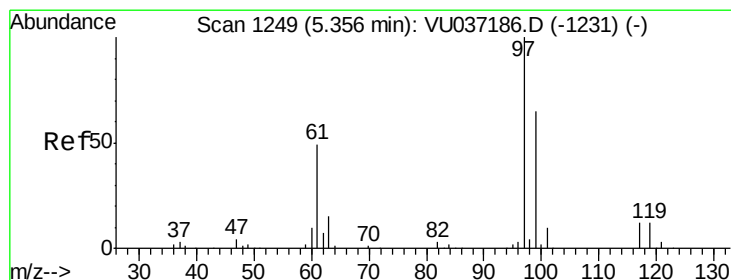
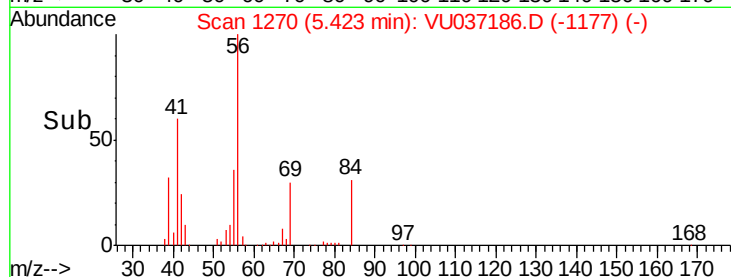
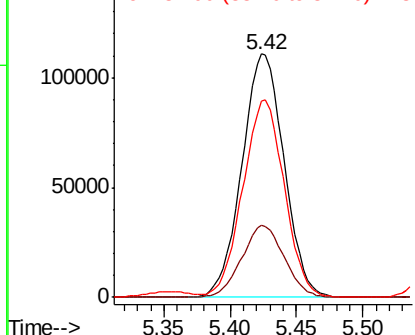
#29
Cyclohexane
Concen: 50.543 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 244746
Ion Ratio Lower Upper
56 100
69 29.9 23.9 35.9
84 80.0 64.0 96.0

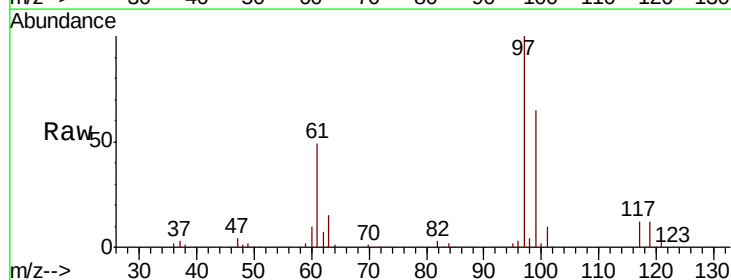


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

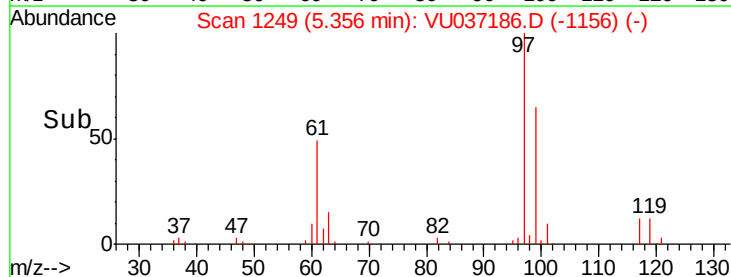
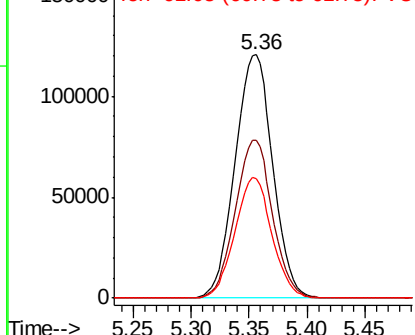


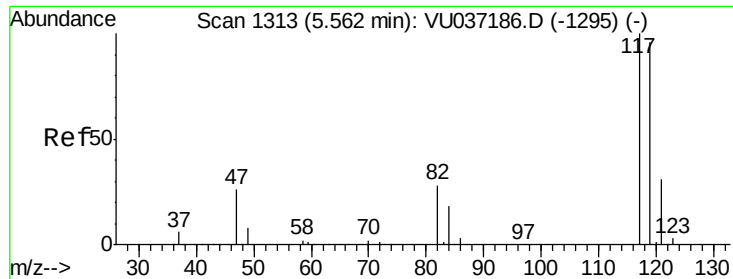
#30
1,1,1-Trichloroethane
Concen: 50.081 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Tgt Ion: 97 Resp: 272283
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.0
61 48.7 39.0 58.4



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 50.113 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

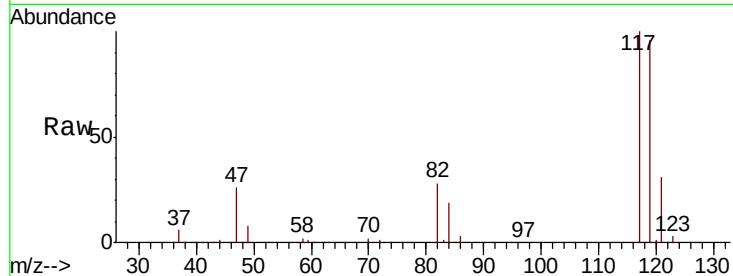
ClientSampleId :

Tot Ion:117 Resp: 240730

Ion Ratio Lower Upper

117 100

119 96.0 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.56

120000

100000

80000

60000

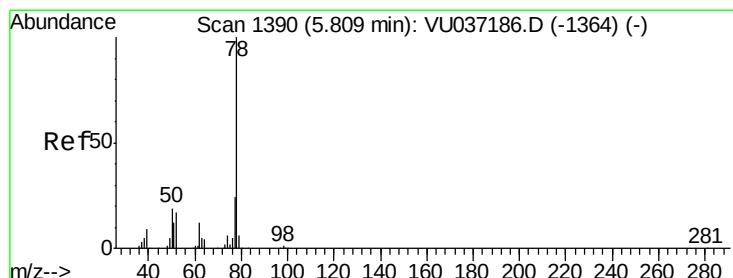
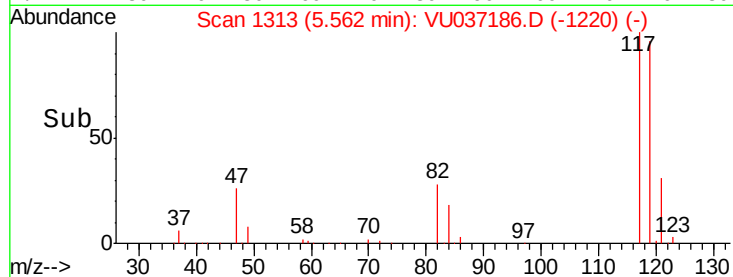
40000

20000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 50.413 ug/L

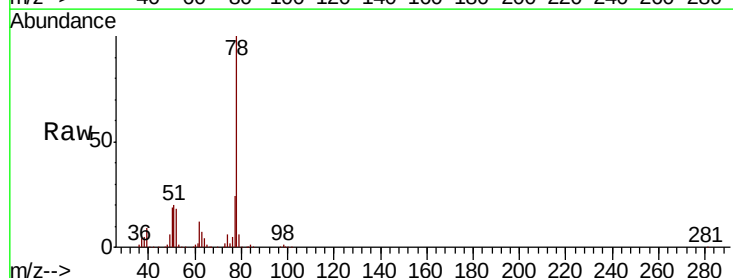
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Tgt Ion: 78 Resp: 608651



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.81

300000

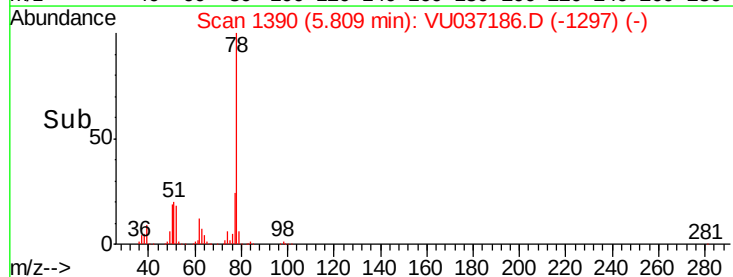
200000

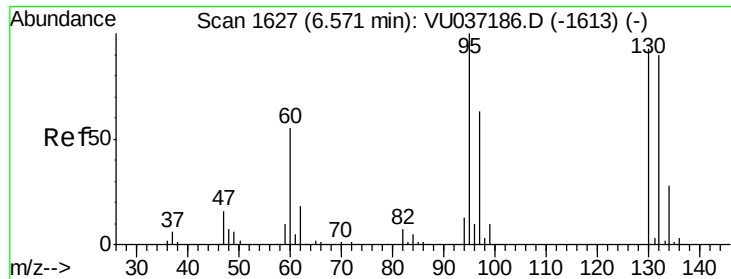
100000

0

Time-->

5.70 5.80 5.90

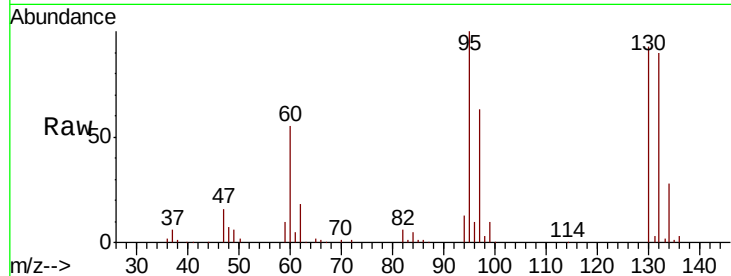




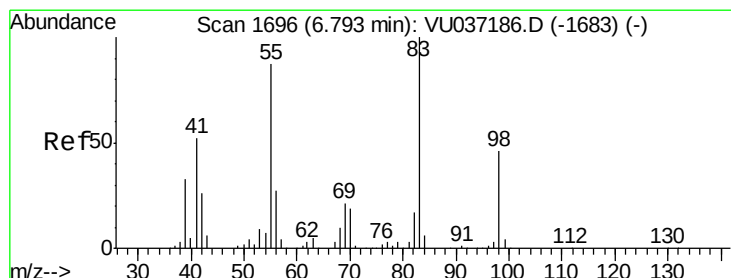
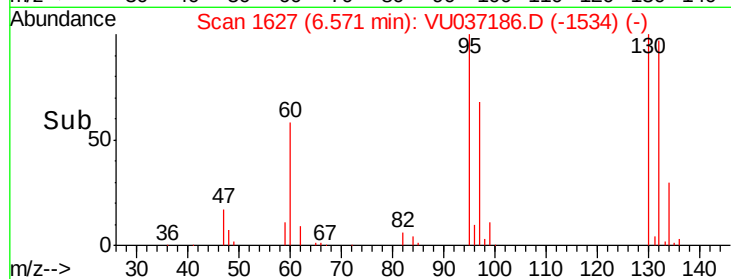
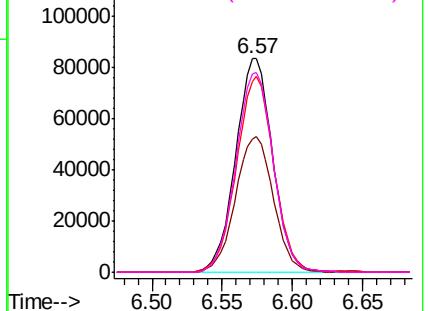
#34
 Trichloroethene
 Concen: 48.944 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 153551
 Ion Ratio Lower Upper
 95 100
 97 62.6 43.8 81.4
 132 89.5 62.6 116.3
 130 92.6 64.8 120.4

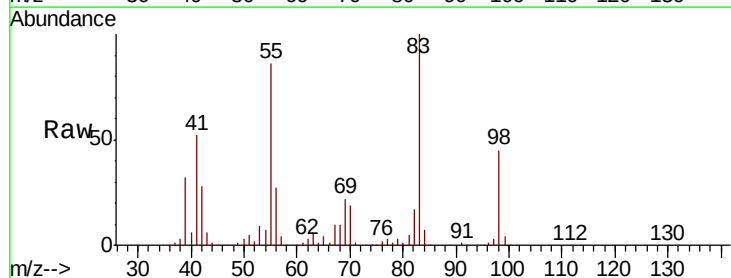


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

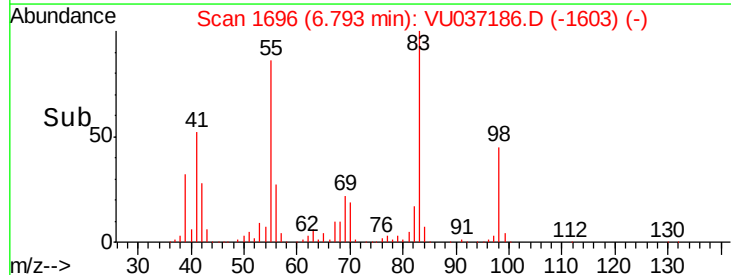
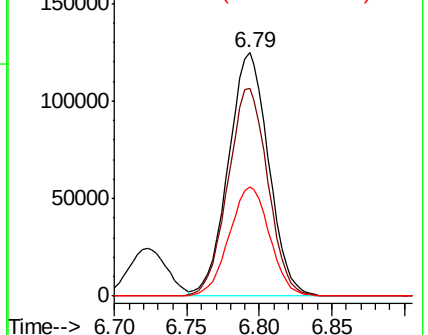


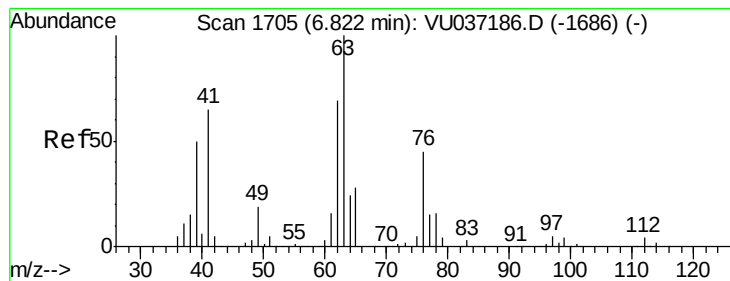
#35
 Methylcyclohexane
 Concen: 50.360 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Tgt Ion: 83 Resp: 239199
 Ion Ratio Lower Upper
 83 100
 55 85.2 68.2 102.2
 98 45.5 36.4 54.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 49.220 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

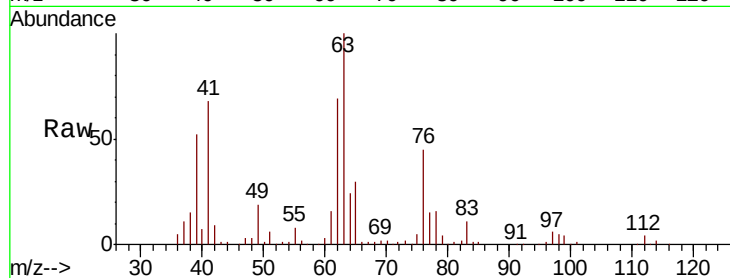
ClientSampled :

Tot Ion: 63 Resp: 168912

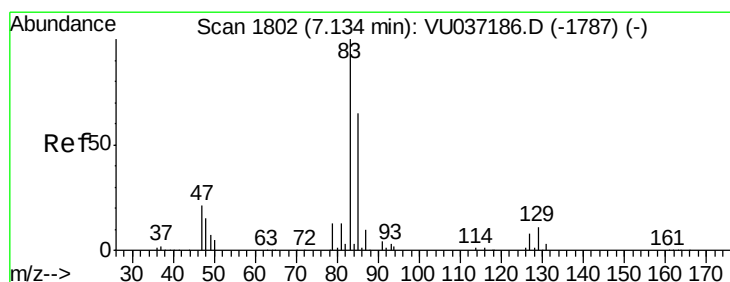
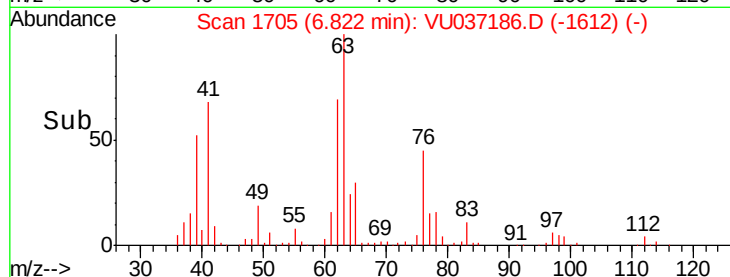
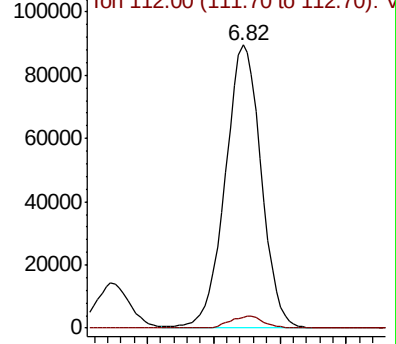
Ion Ratio Lower Upper

63 100

112 3.9 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VU037186.D (-1686) (-)



#38

Bromodichloromethane

Concen: 49.669 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

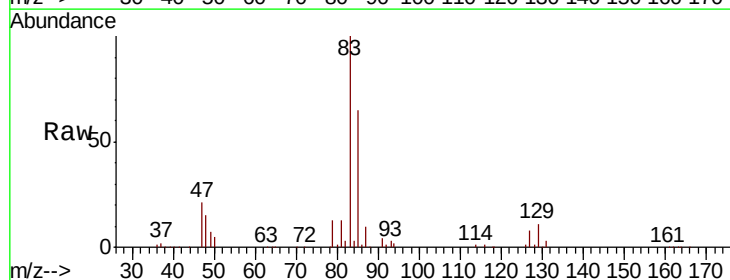
Tgt Ion: 83 Resp: 238306

Ion Ratio Lower Upper

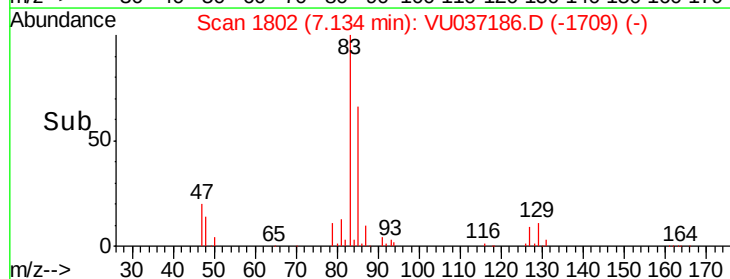
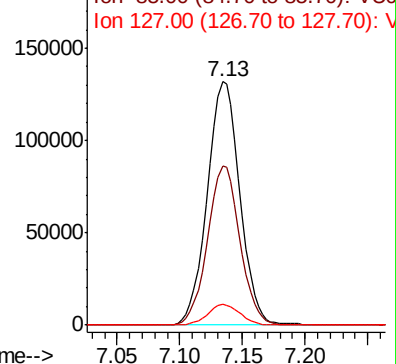
83 100

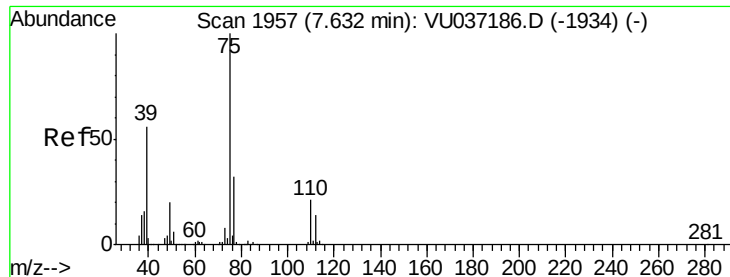
85 65.3 45.7 84.9

127 8.4 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VU037186.D (-1787) (-)

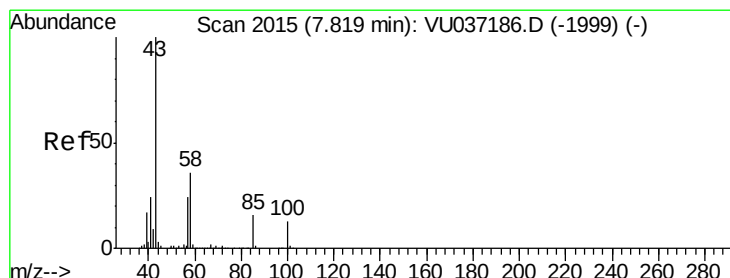
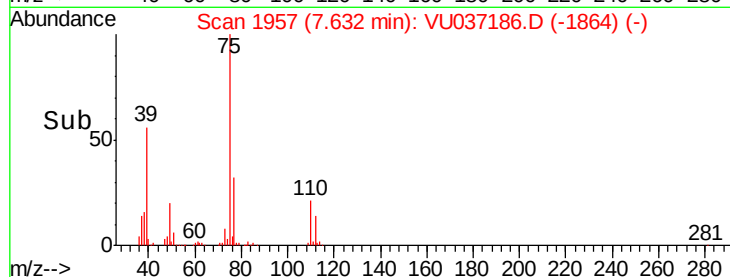
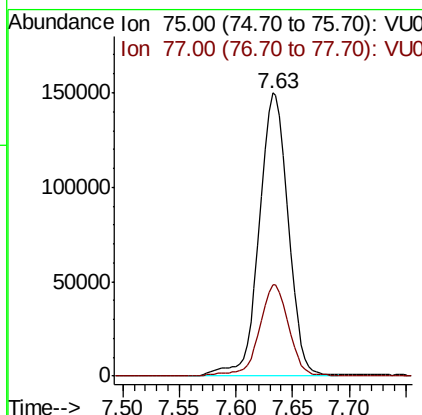
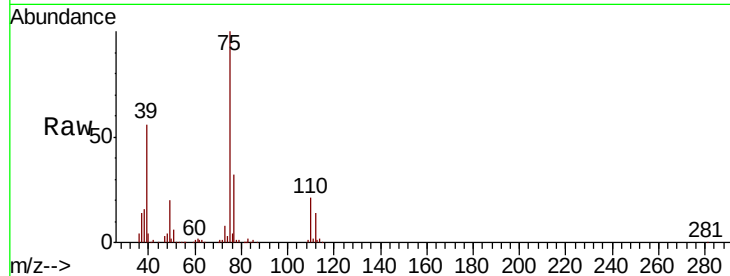




#39
 cis-1,3-Dichloropropene
 Concen: 50.452 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

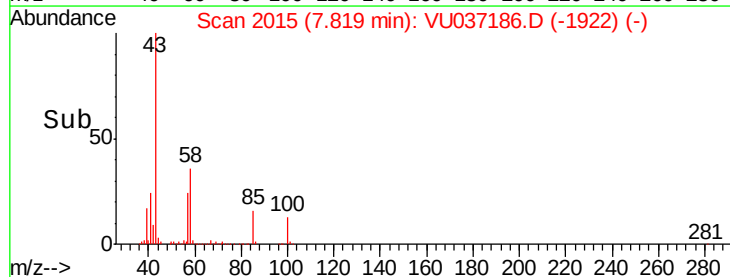
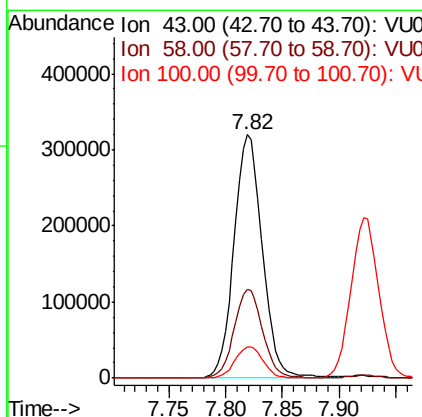
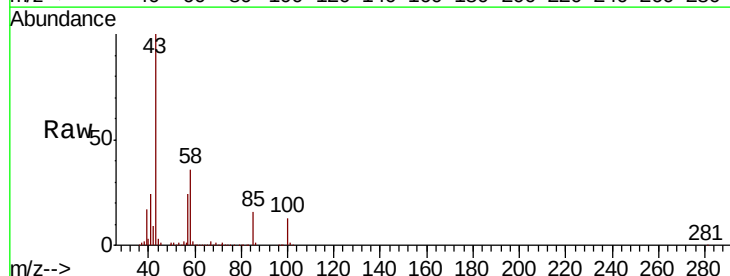
Instrument :
 MSVOA_U
 ClientSampleId :

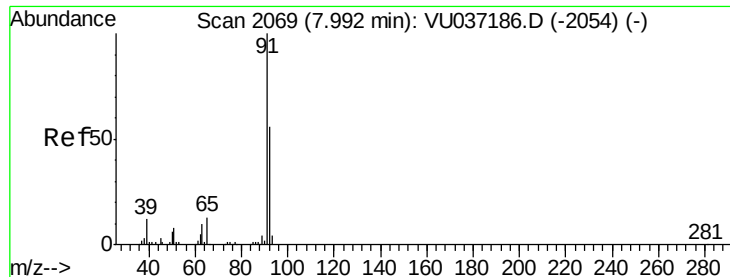
Tot Ion: 75 Resp: 268464
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 100.125 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Tgt Ion: 43 Resp: 559354
 Ion Ratio Lower Upper
 43 100
 58 36.6 29.3 43.9
 100 12.9 10.3 15.5





#42

Toluene

Concen: 50.245 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

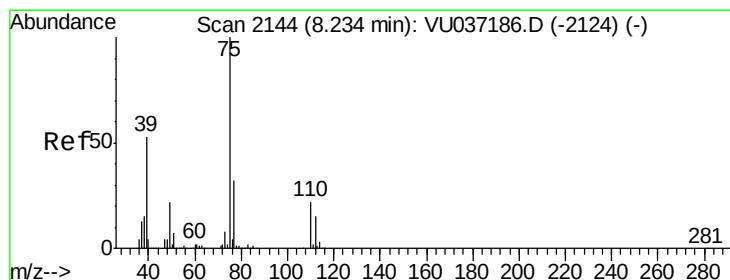
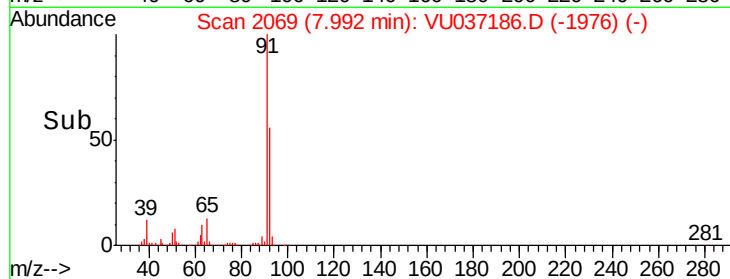
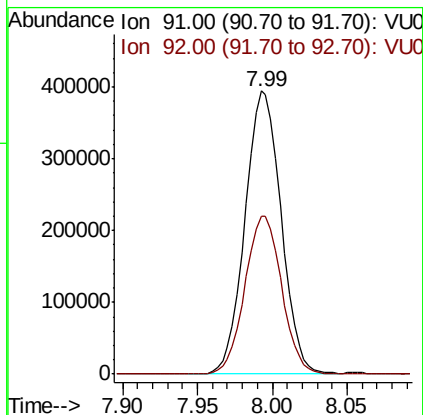
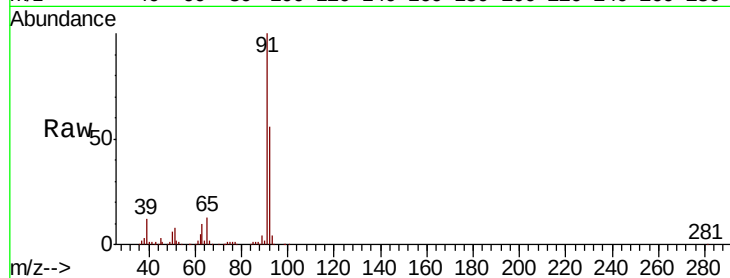
ClientSampleId :

Tot Ion: 91 Resp: 662443

Ion Ratio Lower Upper

91 100

92 55.8 39.1 72.5



#44

trans-1,3-Dichloropropene

Concen: 50.669 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037186.D

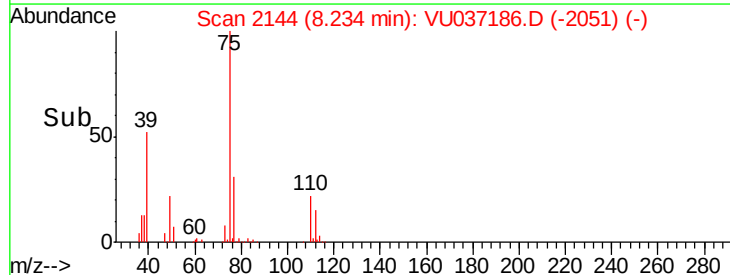
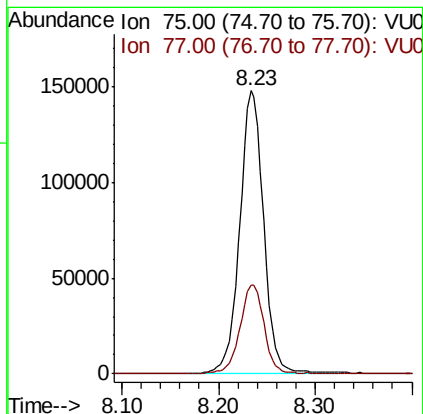
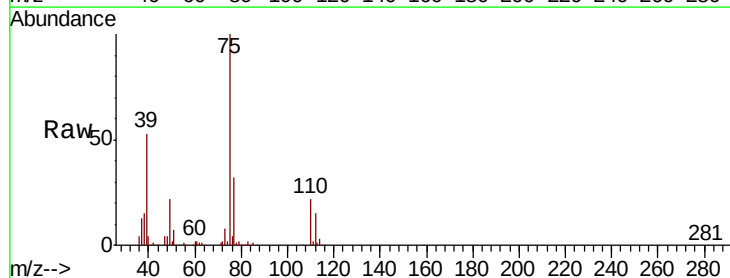
Acq: 12 Mar 2020 13:25

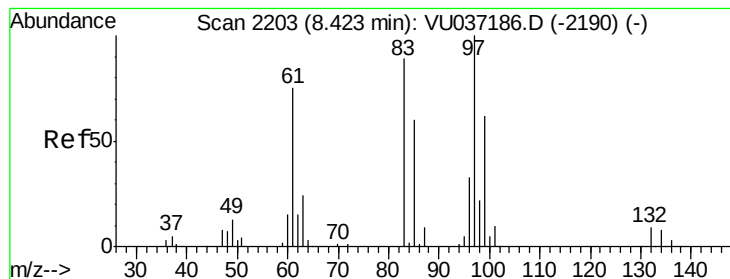
Tgt Ion: 75 Resp: 254567

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 49.309 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 154079

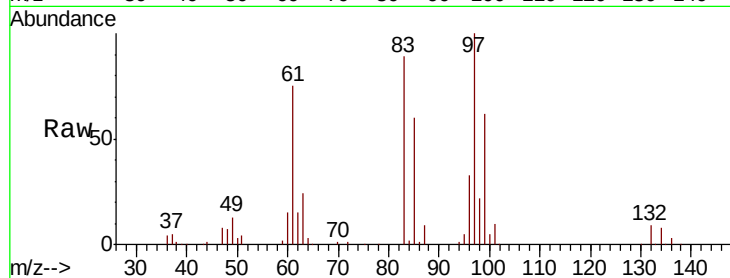
Ion Ratio Lower Upper

97 100

99 62.2 43.5 80.9

83 89.2 62.4 116.0

85 59.8 41.9 77.7

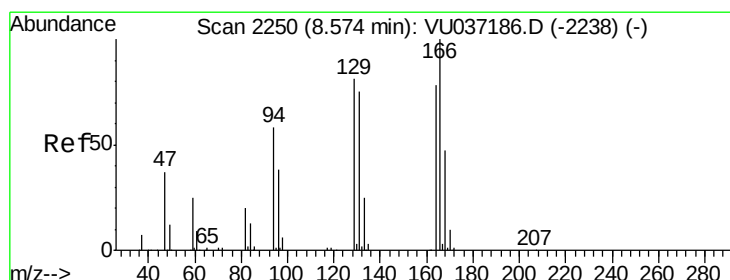
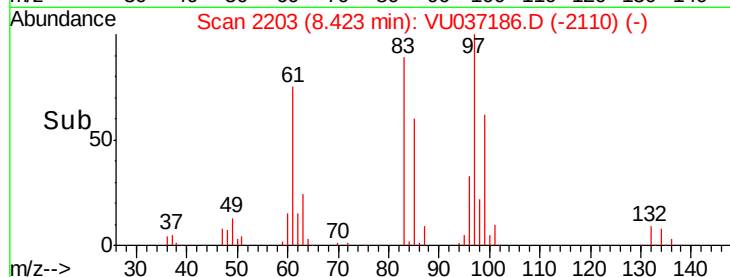
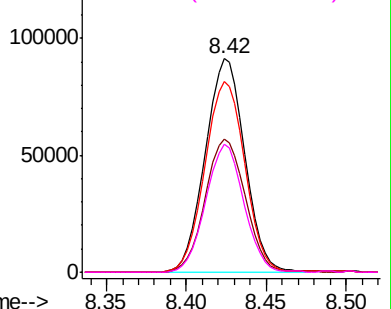


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 50.199 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Tgt Ion:164 Resp: 117001

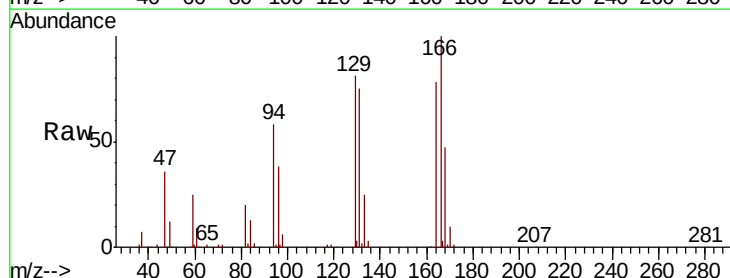
Ion Ratio Lower Upper

164 100

129 103.5 72.4 134.5

131 95.9 67.1 124.7

166 127.8 89.5 166.1

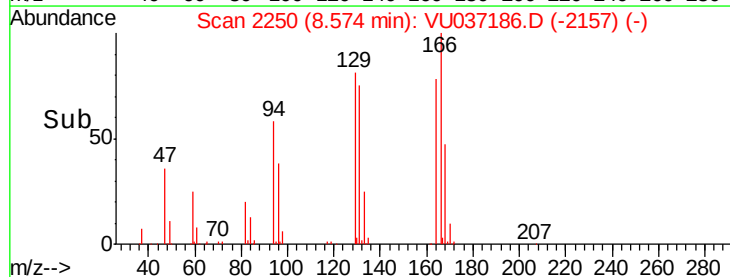
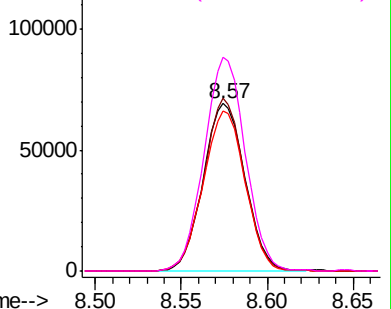


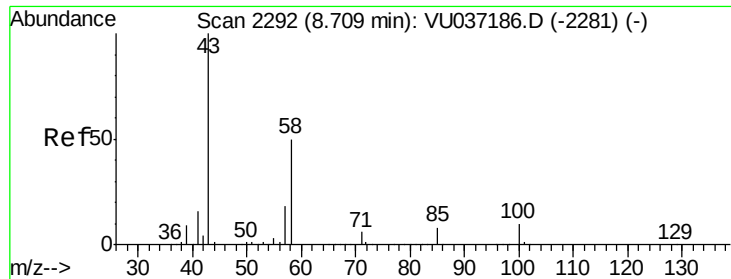
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

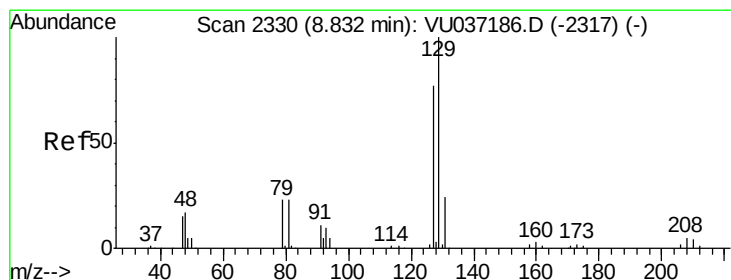
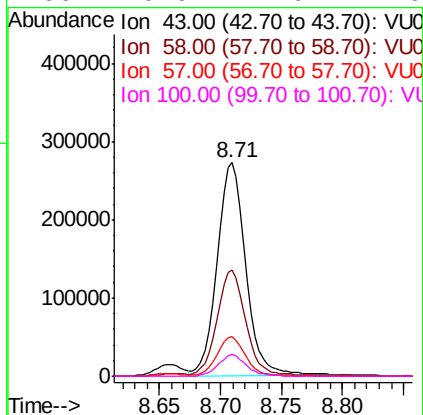
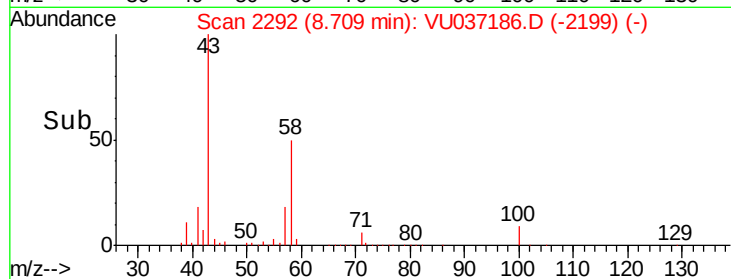
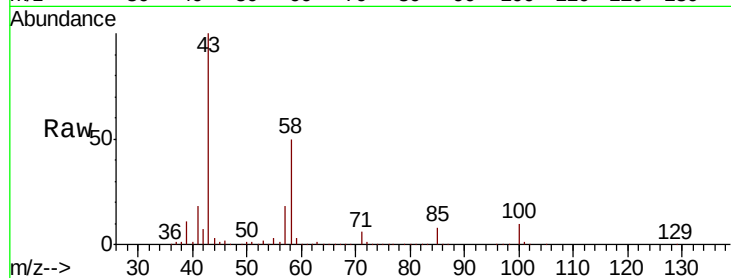




#48
2-Hexanone
Concen: 101.741 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

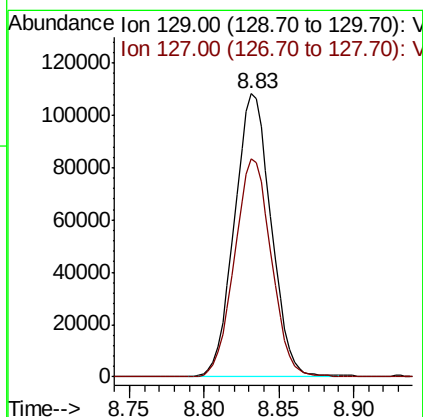
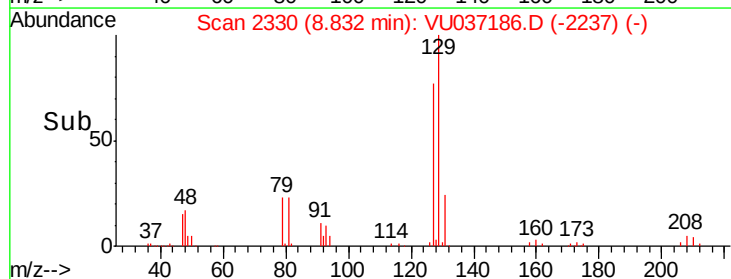
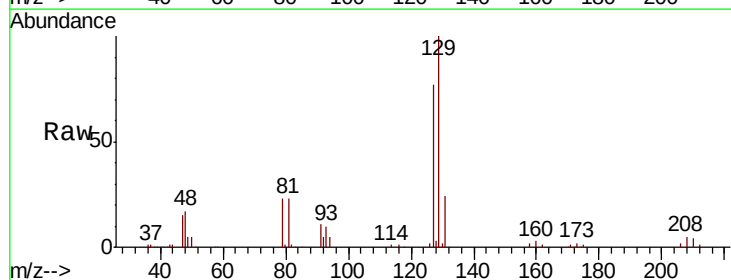
Instrument :
MSVOA_U
ClientSampled :

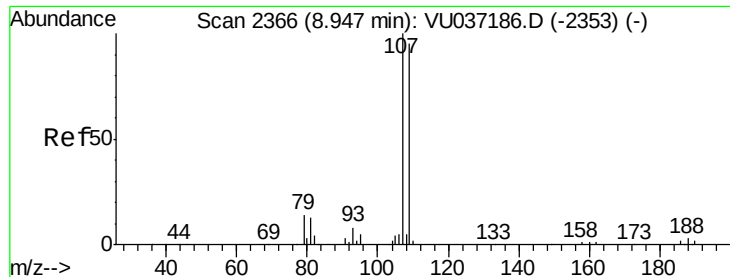
Tot Ion: 43 Resp: 447912
Ion Ratio Lower Upper
43 100
58 49.7 39.8 59.6
57 18.1 14.5 21.7
100 9.9 7.9 11.9



#49
Dibromochloromethane
Concen: 50.263 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Tgt Ion: 129 Resp: 184779
Ion Ratio Lower Upper
129 100
127 76.9 53.8 100.0

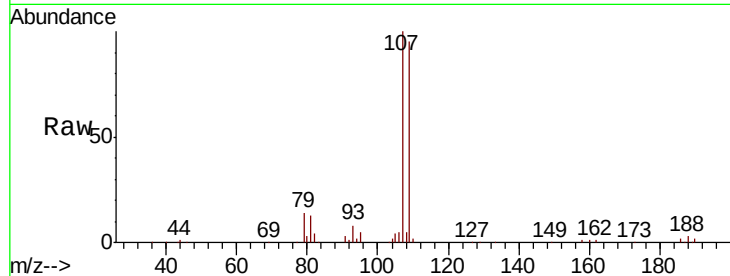




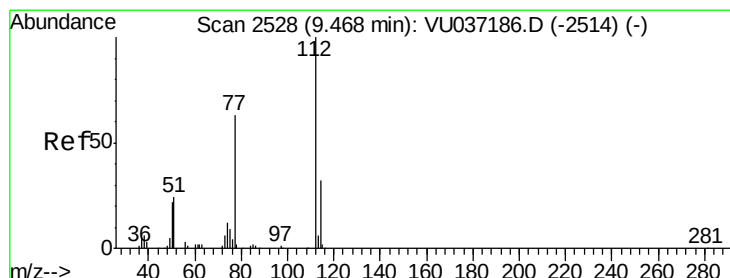
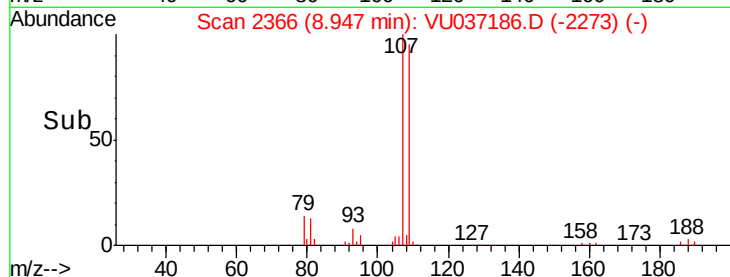
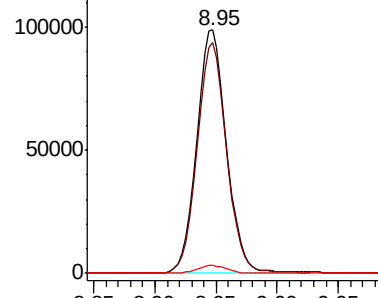
#50
 1,2-Dibromoethane
 Concen: 50.138 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	66.5	123.5
188	3.3	2.6	4.0

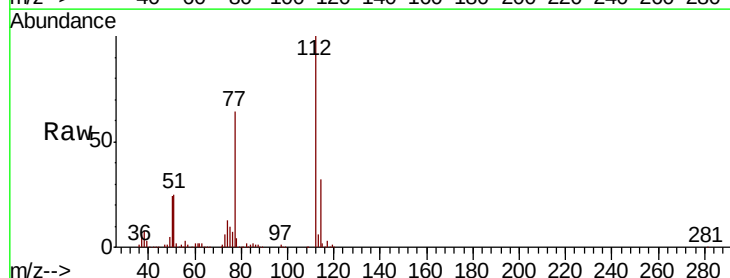


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

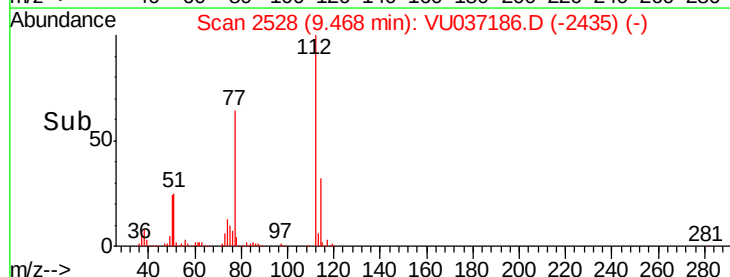
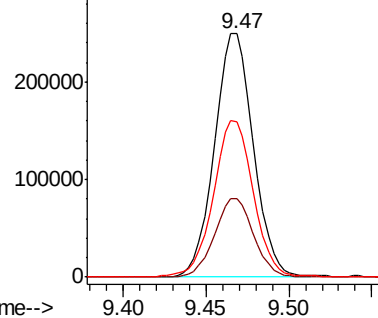


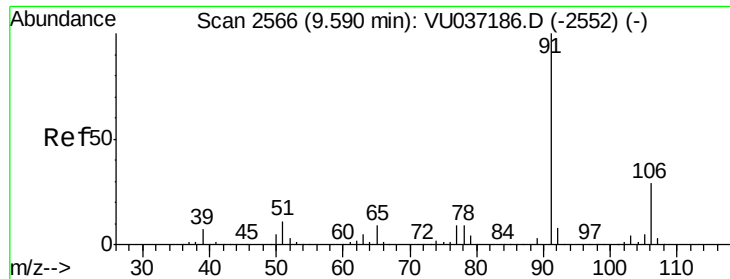
#51
 Chlorobenzene
 Concen: 48.977 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.6	42.0
77	63.7	51.0	76.4



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V

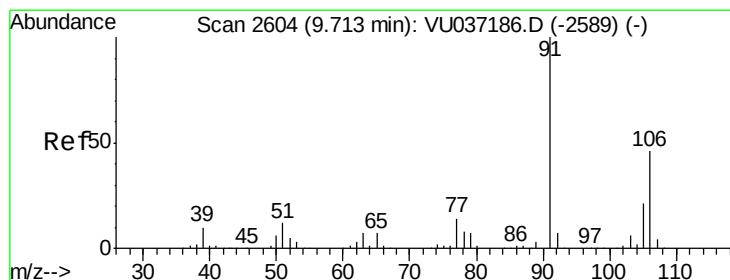
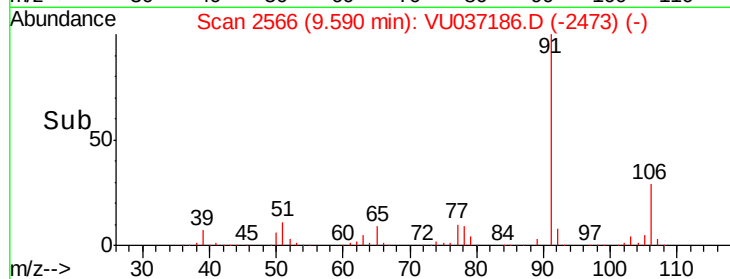
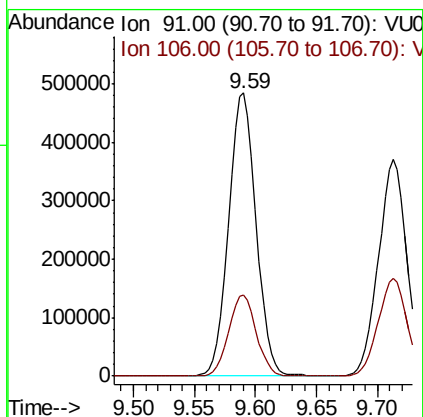
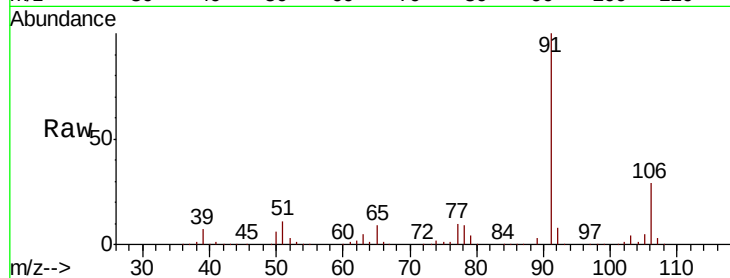




#52
Ethylbenzene
Concen: 49.977 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

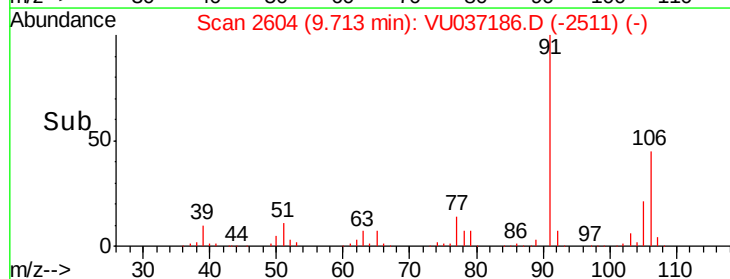
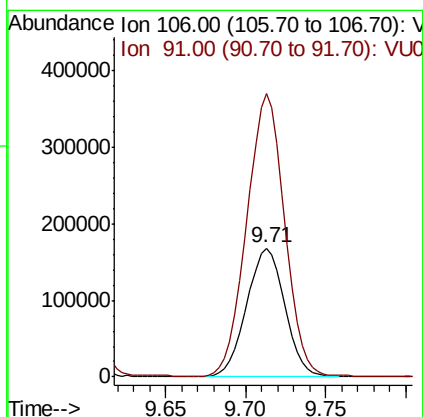
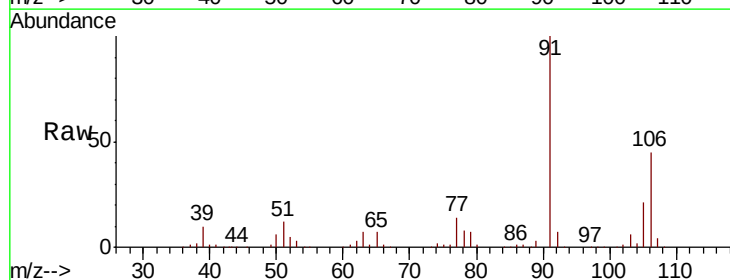
Instrument :
MSVOA_U
ClientSampled :

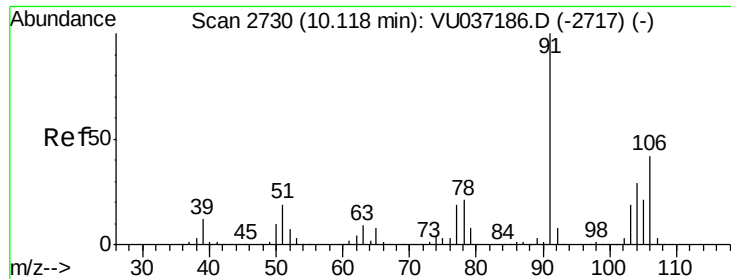
Tot Ion: 91 Resp: 762957
Ion Ratio Lower Upper
91 100
106 28.9 20.2 37.6



#53
m,p-Xylene
Concen: 50.715 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VU037186.D
Acq: 12 Mar 2020 13:25

Tgt Ion: 106 Resp: 273839
Ion Ratio Lower Upper
106 100
91 220.0 154.0 286.0





#54

o-xylene

Concen: 50.349 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

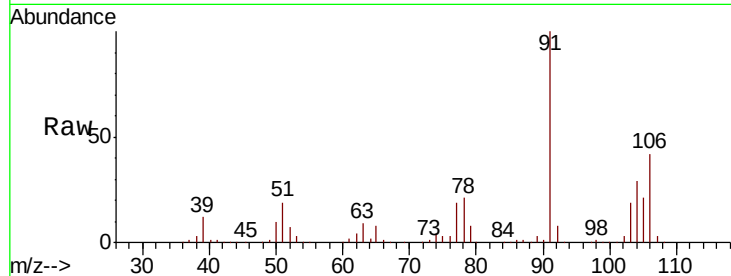
ClientSampleId :

Tot Ion:106 Resp: 268597

Ion Ratio Lower Upper

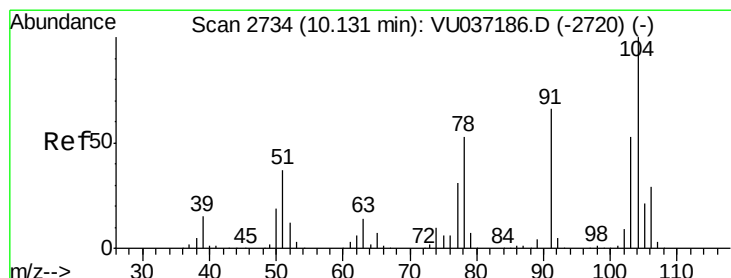
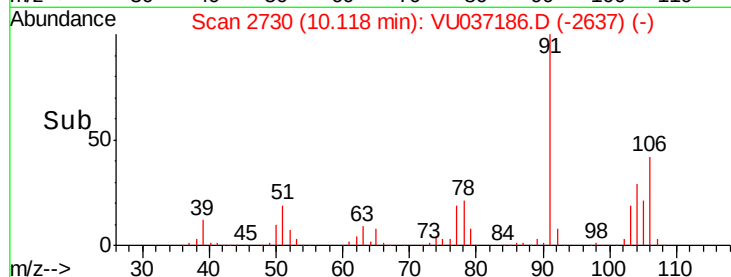
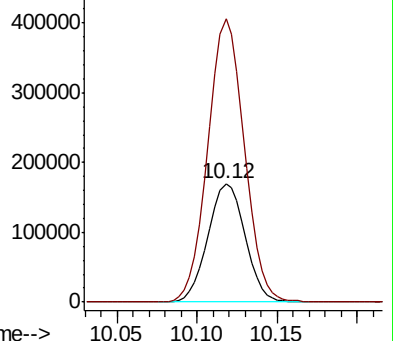
106 100

91 239.4 167.6 311.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.787 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037186.D

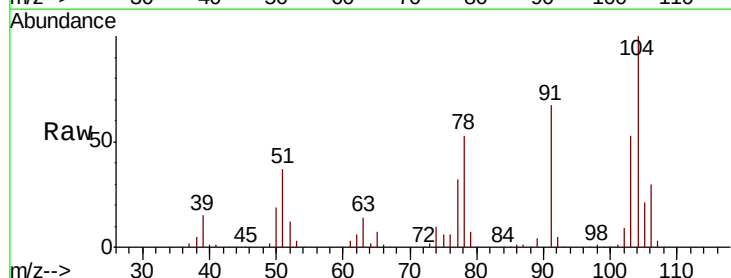
Acq: 12 Mar 2020 13:25

Tgt Ion:104 Resp: 459460

Ion Ratio Lower Upper

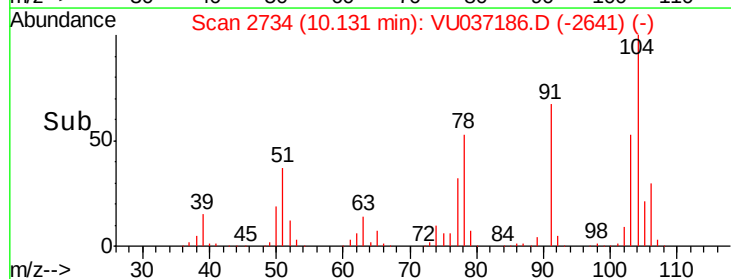
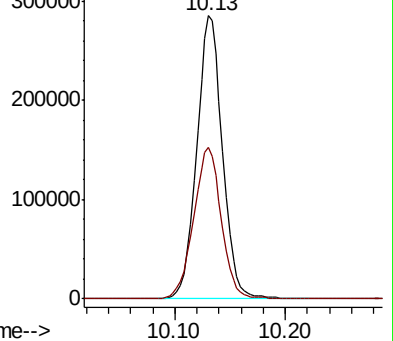
104 100

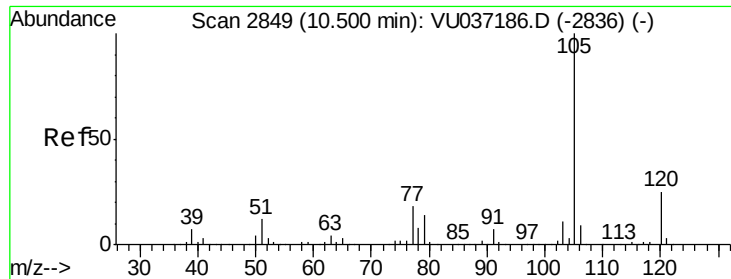
78 53.4 37.4 69.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.214 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

ClientSampleId :

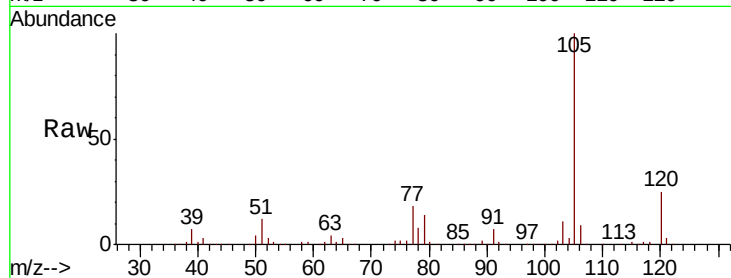
Tot Ion:105 Resp: 744562

Ion Ratio Lower Upper

105 100

120 24.9 19.9 29.9

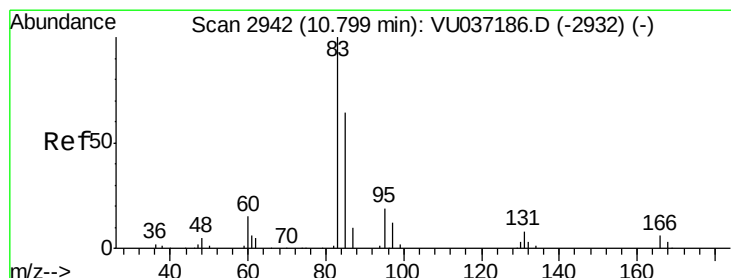
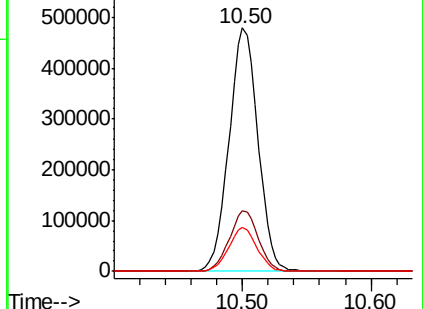
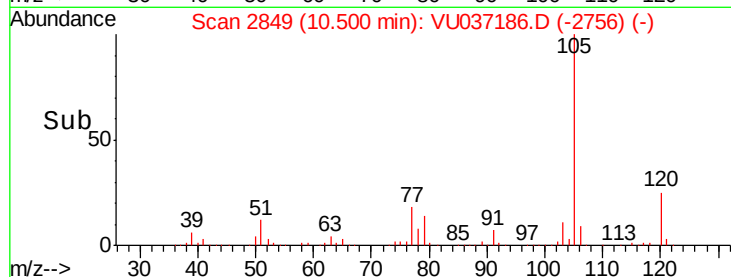
77 17.6 14.1 21.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.022 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

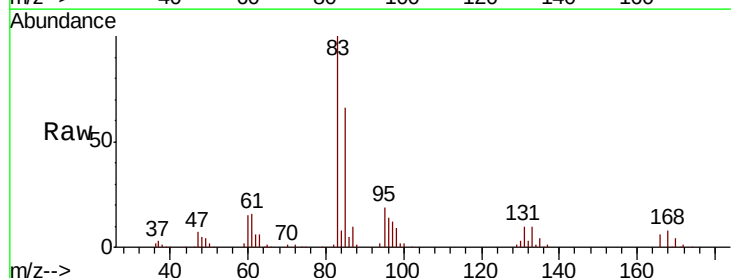
Tgt Ion: 83 Resp: 279610

Ion Ratio Lower Upper

83 100

85 65.5 45.8 85.2

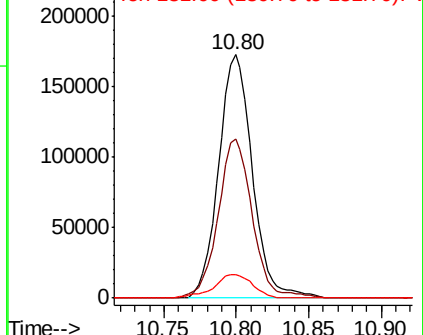
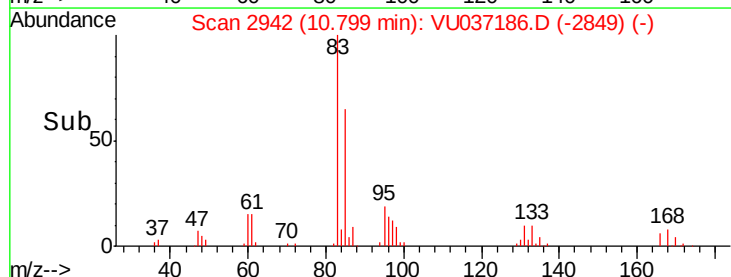
131 9.6 7.7 11.5

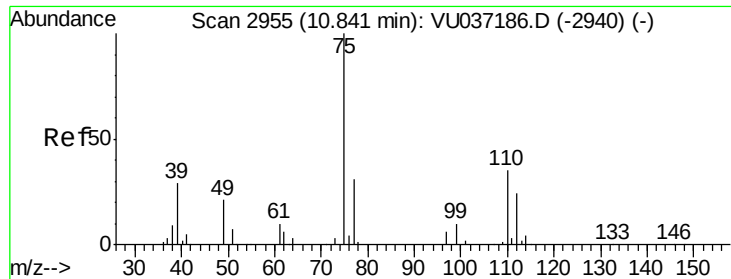


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.107 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

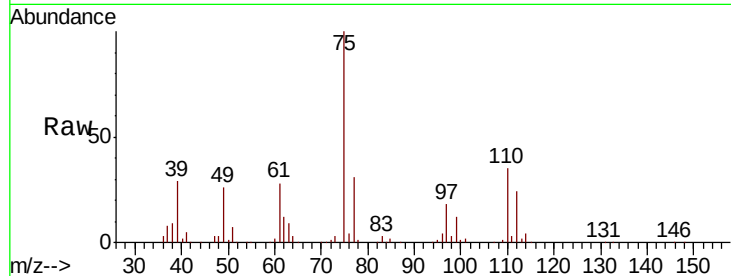
ClientSampleId :

Tot Ion: 75 Resp: 239035

Ion Ratio Lower Upper

75 100

77 31.3 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VU037186.D (-2940) (-)

Ion 77.00 (76.70 to 77.70): VU037186.D (-2940) (-)

10.84

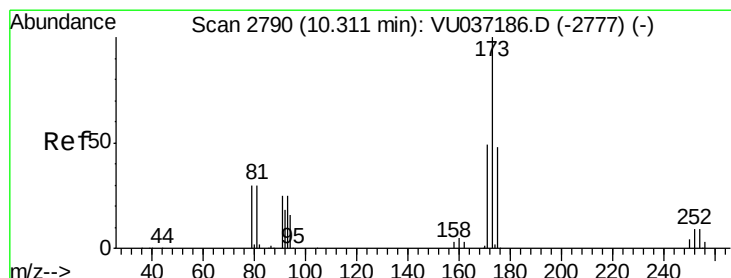
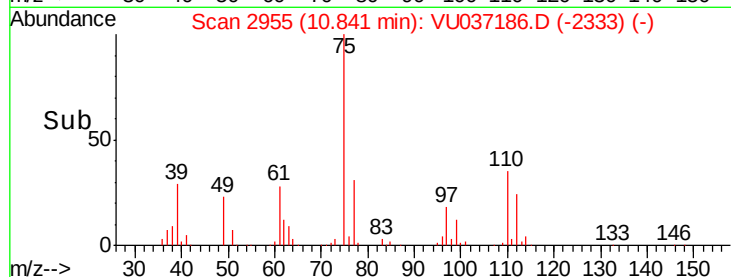
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 49.647 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

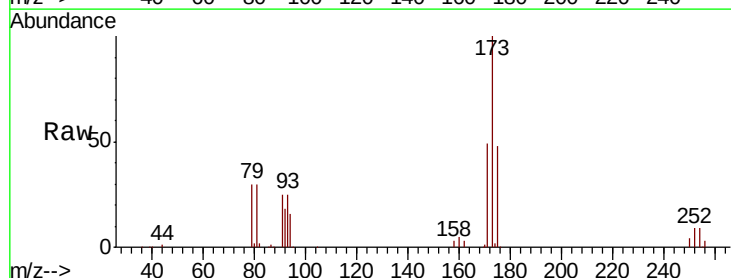
Tgt Ion: 173 Resp: 142804

Ion Ratio Lower Upper

173 100

175 47.9 38.3 57.5

254 9.5 7.6 11.4



Abundance Ion 173.00 (172.70 to 173.70): VU037186.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU037186.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU037186.D (-2777) (-)

10.31

120000

100000

80000

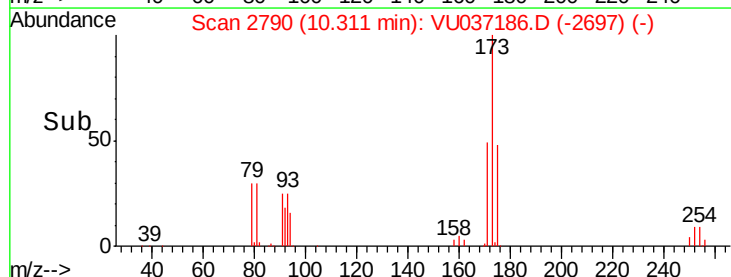
60000

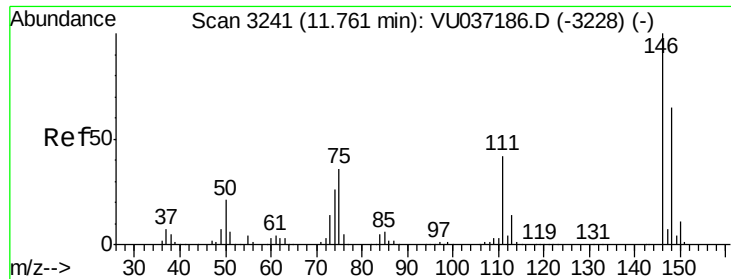
40000

20000

0

Time-->

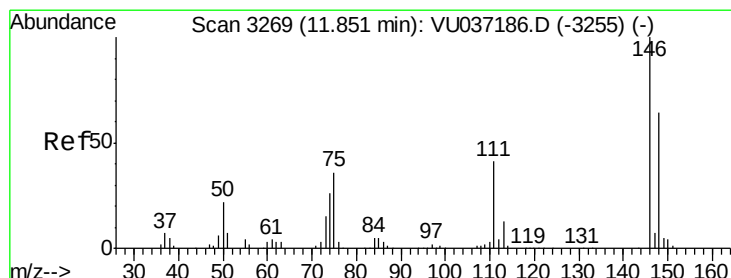
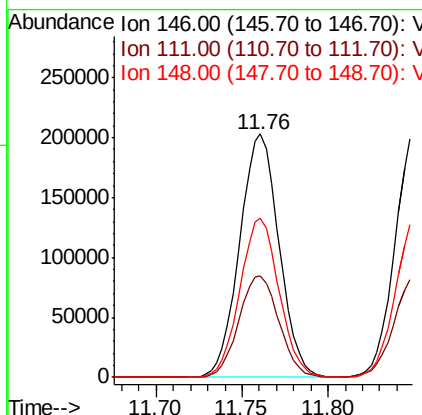
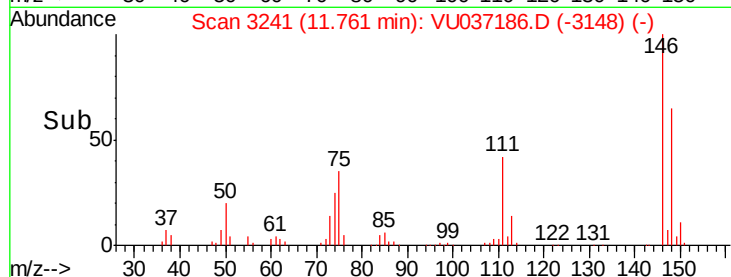
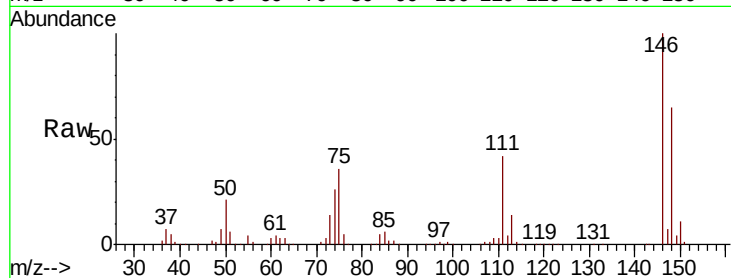




#62
 1,3-Dichlorobenzene
 Concen: 49.422 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

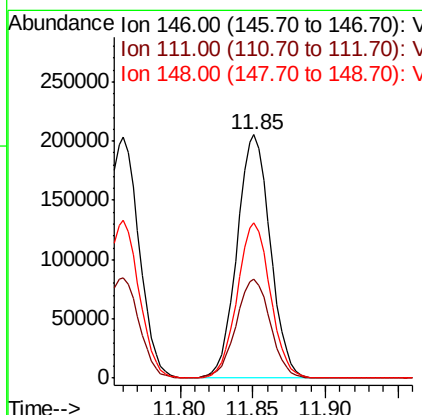
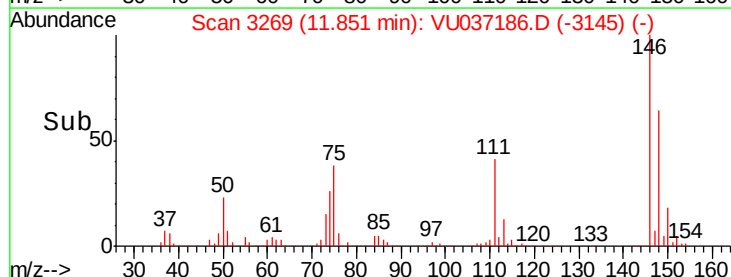
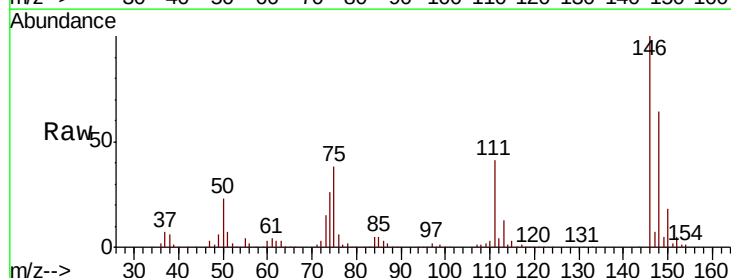
Instrument :
 MSVOA_U
 ClientSampleId :

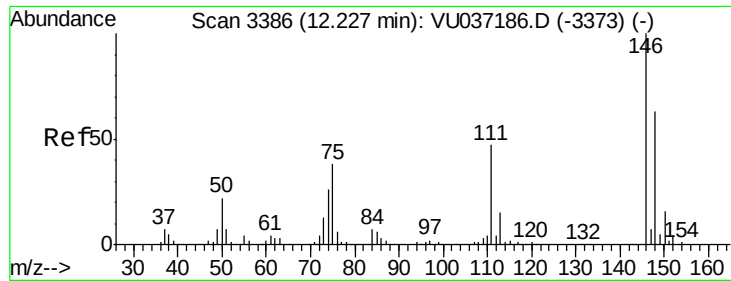
Tot Ion:146 Resp: 322598
 Ion Ratio Lower Upper
 146 100
 111 41.7 29.2 54.2
 148 65.4 45.8 85.0



#63
 1,4-Dichlorobenzene
 Concen: 49.580 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Tgt Ion:146 Resp: 327091
 Ion Ratio Lower Upper
 146 100
 111 40.7 28.5 52.9
 148 64.0 44.8 83.2

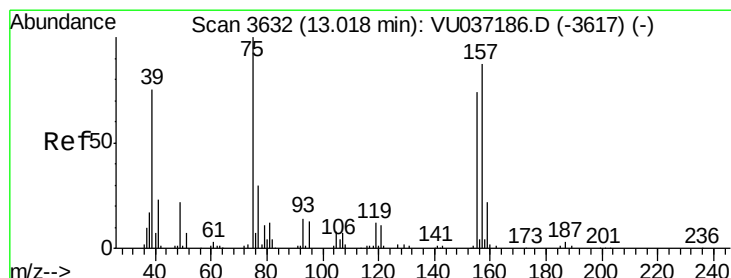
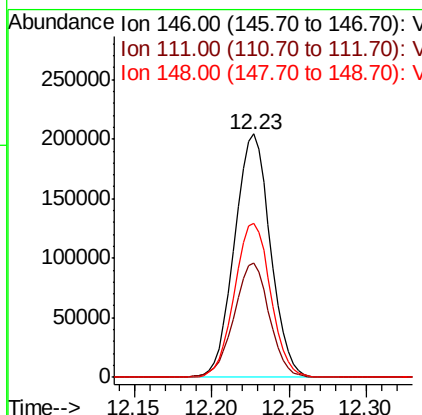
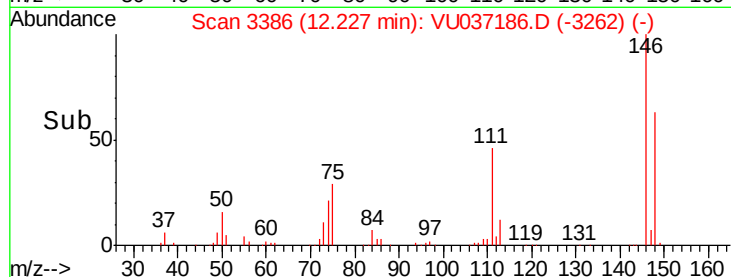
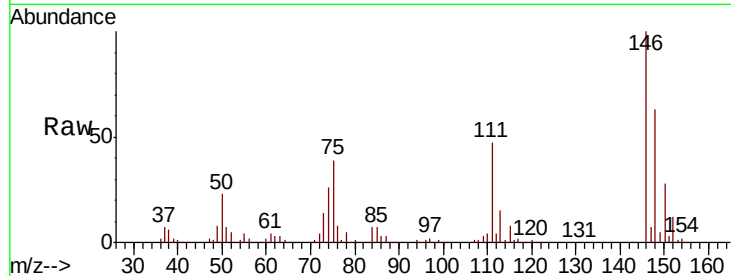




#65
 1,2-Dichlorobenzene
 Concen: 49.258 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

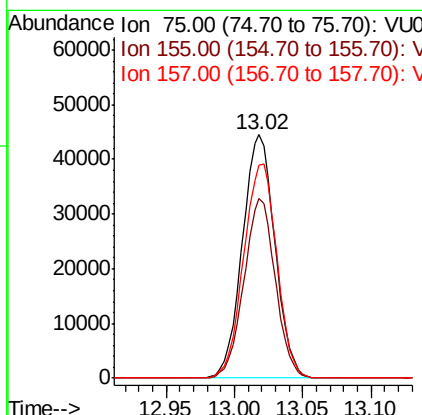
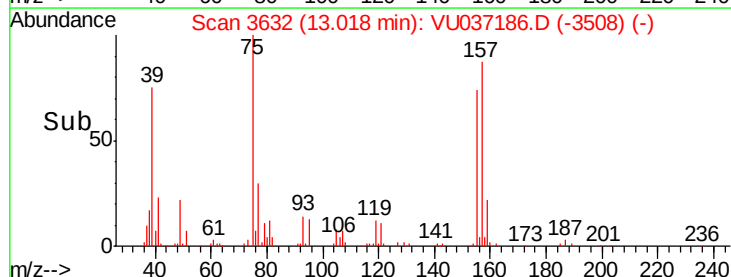
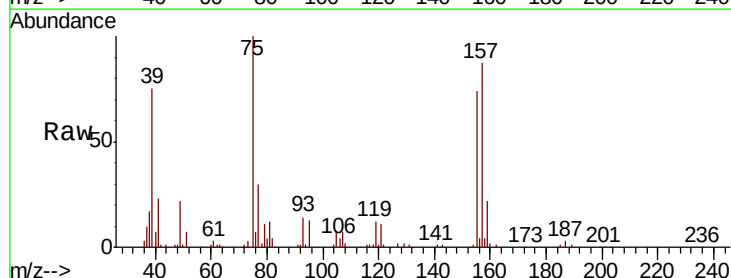
Instrument :
 MSVOA_U
 ClientSampled :

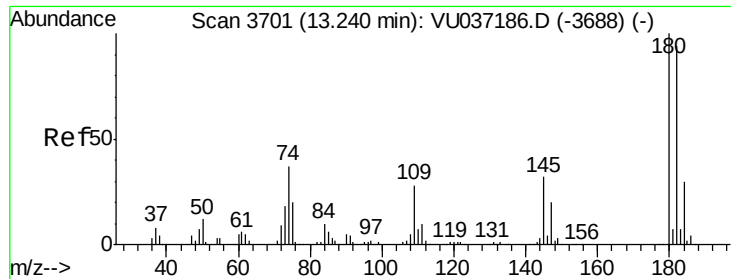
Tot Ion:146 Resp: 328401
 Ion Ratio Lower Upper
 146 100
 111 46.8 37.4 56.2
 148 63.5 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.096 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Tgt Ion: 75 Resp: 73633
 Ion Ratio Lower Upper
 75 100
 155 73.7 59.0 88.4
 157 87.4 69.9 104.9

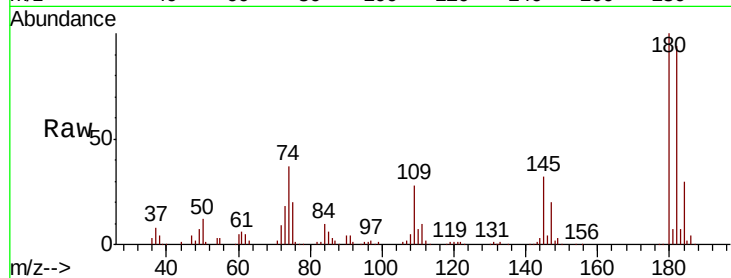




#67
 1,3,5-Trichlorobenzene
 Concen: 49.722 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.8	113.8
184	30.6	24.5	36.7
145	32.4	25.9	38.9



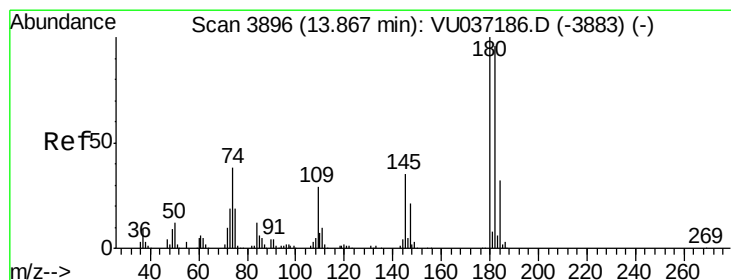
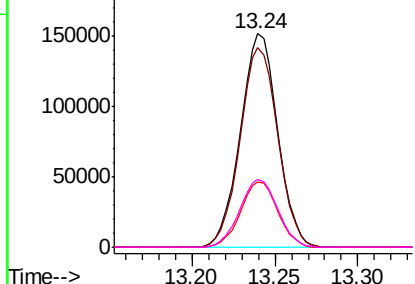
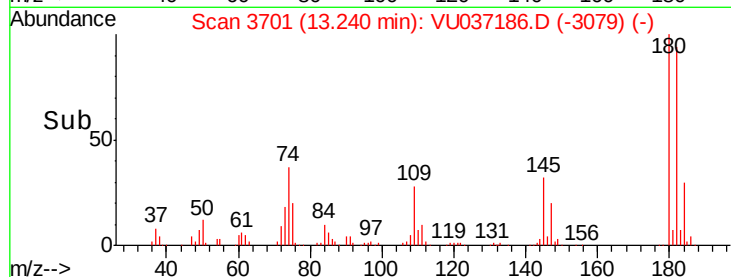
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

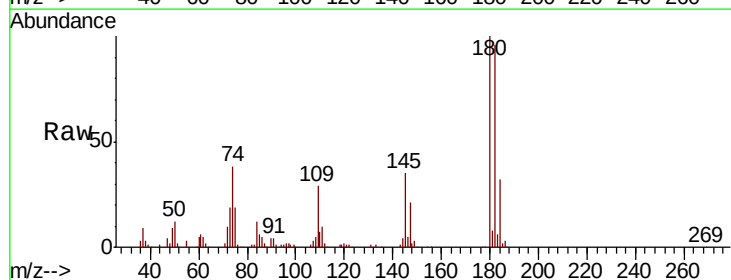
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.211 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037186.D
 Acq: 12 Mar 2020 13:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.9	113.9
145	33.4	26.7	40.1

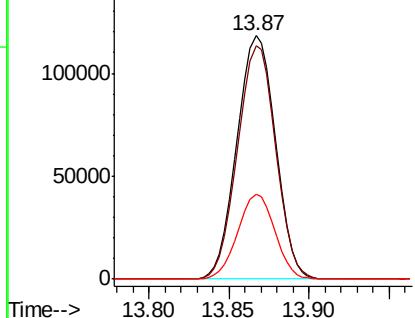
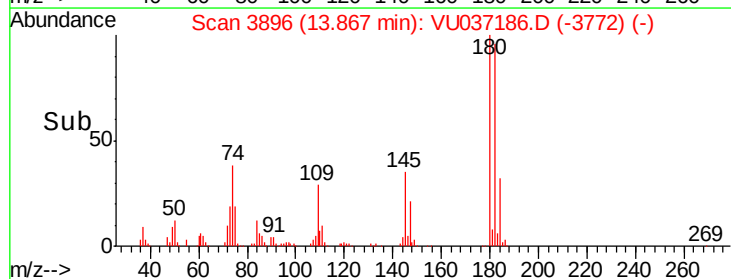


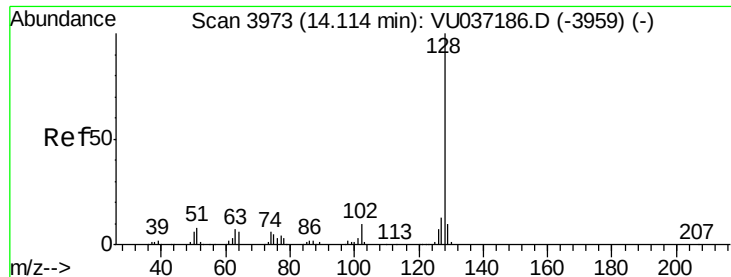
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.024 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

Instrument :

MSVOA_U

ClientSampleId :

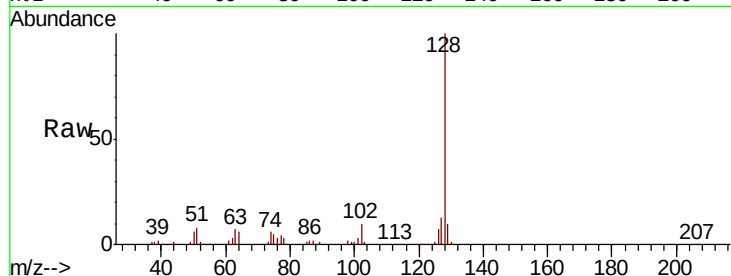
Tot Ion:128 Resp: 298705

Ion Ratio Lower Upper

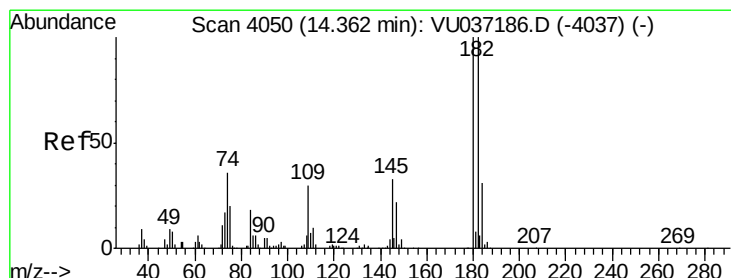
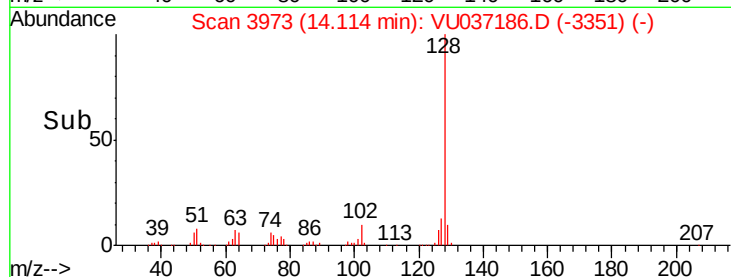
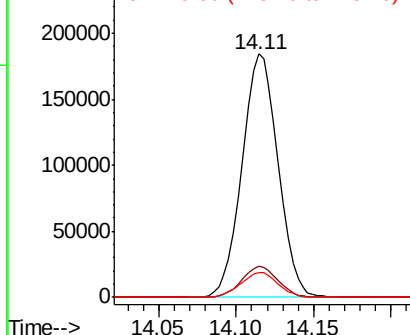
128 100

127 12.8 10.2 15.4

129 10.6 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.881 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037186.D

Acq: 12 Mar 2020 13:25

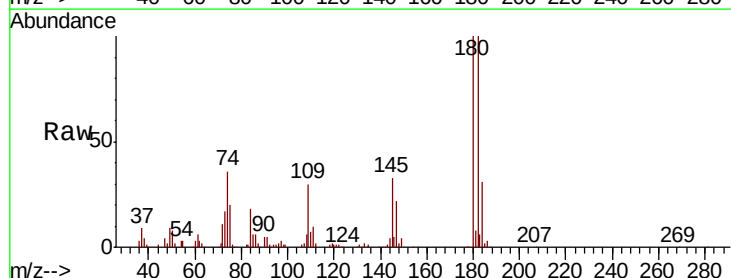
Tgt Ion:180 Resp: 198339

Ion Ratio Lower Upper

180 100

182 97.2 77.8 116.6

145 34.2 27.4 41.0



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

