

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112019\
 Data File : VU035790.D
 Acq On : 20 Nov 2019 15:35
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 04:12:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 21 04:09:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	697056	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	684147	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	321024	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	230741	40.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.98%
7) Chloroethane-d5	1.93	69	192975	42.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.84%
11) 1,1-Dichloroethene-d2	2.59	63	417660	47.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.40%
21) 2-Butanone-d5	4.69	46	369816	112.45	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.45%
24) Chloroform-d	5.11	84	441391	50.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.52%
26) 1,2-Dichloroethane-d4	5.75	65	291068	54.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.30%
32) Benzene-d6	5.77	84	850812	47.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.42%
36) 1,2-Dichloropropane-d6	6.73	67	286422	49.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.06%
41) Toluene-d8	7.93	98	787778	46.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.66%
43) trans-1,3-Dichloropropene-	8.21	79	132915	49.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.78%
47) 2-Hexanone-d5	8.67	63	231662	104.52	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.52%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	418730	50.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.82%
64) 1,2-Dichlorobenzene-d4	12.22	152	273416	42.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.46%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	268947	49.474	ug/L 98
3) Chloromethane	1.54	50	320977	54.178	ug/L 100
5) Vinyl chloride	1.62	62	309634	48.573	ug/L 100
6) Bromomethane	1.87	94	147338	45.632	ug/L 96
8) Chloroethane	1.95	64	172409	46.502	ug/L 100
9) Trichlorofluoromethane	2.16	101	383264	50.755	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	213706	49.297	ug/L 93
12) 1,1-Dichloroethene	2.61	96	196826	46.225	ug/L 81
13) Acetone	2.66	43	347170	119.988	ug/L 95
14) Carbon disulfide	2.82	76	611287	46.597	ug/L 100
15) Methyl Acetate	2.99	43	289791	55.297	ug/L 94
16) Methylene chloride	3.08	84	247953	47.725	ug/L 89
17) trans-1,2-Dichloroethene	3.39	96	206611	46.077	ug/L 90
18) Methyl tert-butyl Ether	3.42	73	687845	50.737	ug/L 97
19) 1,1-Dichloroethane	3.92	63	452963	52.367	ug/L 98
20) cis-1,2-Dichloroethene	4.72	96	235346	46.533	ug/L 92
22) 2-Butanone	4.77	43	441562	115.609	ug/L 96

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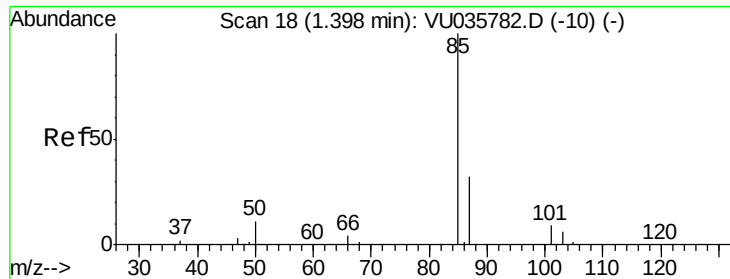
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 21 04:12:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.02	128	122731	45.922	ug/L #	84
25) Chloroform	5.14	83	455697	51.873	ug/L	99
27) 1,2-Dichloroethane	5.84	62	362700	56.513	ug/L #	94
29) Cyclohexane	5.43	56	368878	52.861	ug/L	93
30) 1,1,1-Trichloroethane	5.36	97	375243	52.184	ug/L	98
31) Carbon tetrachloride	5.57	117	337740	52.823	ug/L	99
33) Benzene	5.82	78	966501	50.267	ug/L	100
34) Trichloroethene	6.58	95	234784	48.031	ug/L	96
35) Methylcyclohexane	6.80	83	351613	49.528	ug/L	93
37) 1,2-Dichloropropane	6.83	63	267352	51.923	ug/L	99
38) Bromodichloromethane	7.14	83	338792	51.765	ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	398127	52.020	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	762148	110.642	ug/L	94
42) Toluene	8.00	91	1042520	51.733	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	369548	52.677	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	239718	48.572	ug/L	96
46) Tetrachloroethene	8.58	164	184149	45.054	ug/L	98
48) 2-Hexanone	8.73	43	629503	112.377	ug/L #	89
49) Dibromochloromethane	8.84	129	271386	48.761	ug/L	99
50) 1,2-Dibromoethane	8.96	107	245831	46.686	ug/L	99
51) Chlorobenzene	9.48	112	628215	46.696	ug/L	96
52) Ethylbenzene	9.60	91	1089902	50.590	ug/L	99
53) m,p-Xylene	9.72	106	410543	50.785	ug/L	96
54) o-xylene	10.13	106	394105	49.879	ug/L	95
55) Styrene	10.14	104	669740	51.076	ug/L	94
56) Isopropylbenzene	10.51	105	1008733	50.804	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	419792	49.382	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	337773	50.311	ug/L	100
61) Bromoform	10.32	173	196149	40.051	ug/L #	98
62) 1,3-Dichlorobenzene	11.77	146	437624	43.213	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	440539	42.820	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	440267	42.702	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	73050	45.698	ug/L	86
67) 1,3,5-Trichlorobenzene	13.24	180	235734	40.291	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	132534	33.816	ug/L	95
69) Naphthalene	14.11	128	316934	31.527	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	141114	33.417	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 49.474 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

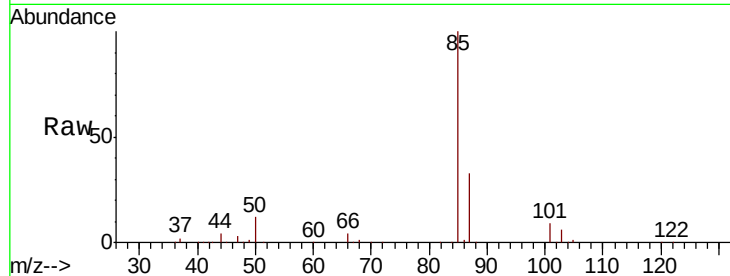
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 268947

Ion Ratio Lower Upper

85 100

87 33.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035782.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU035782.D (-10) (-)

1.39

250000

200000

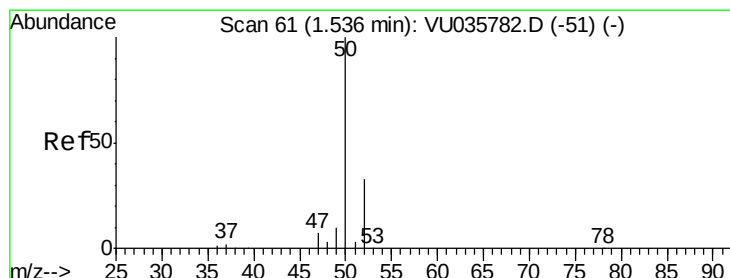
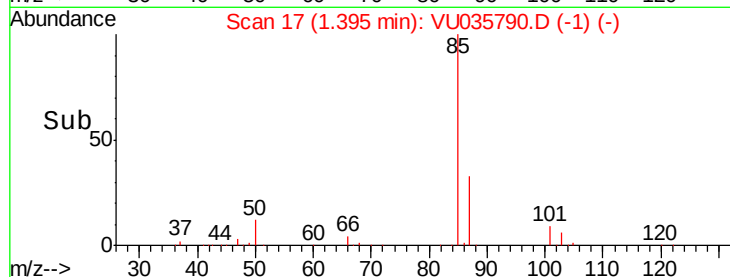
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 54.178 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035790.D

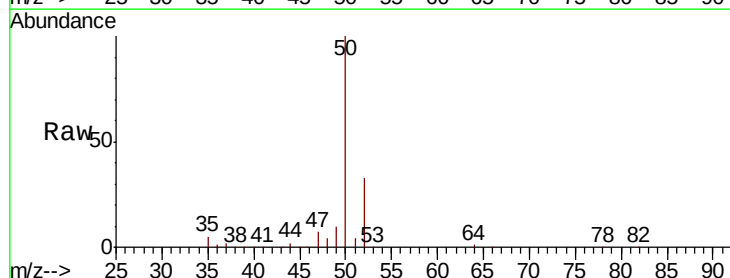
Acq: 20 Nov 2019 15:35

Tgt Ion: 50 Resp: 320977

Ion Ratio Lower Upper

50 100

52 32.8 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035782.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU035782.D (-51) (-)

1.54

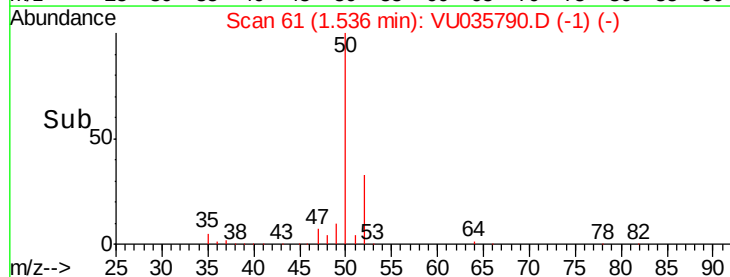
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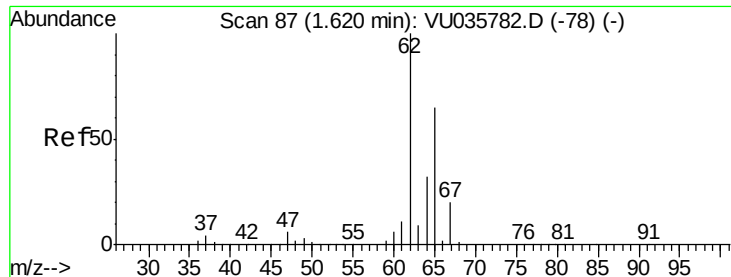
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 48.573 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

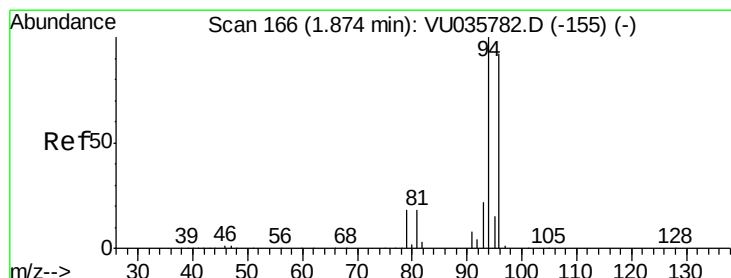
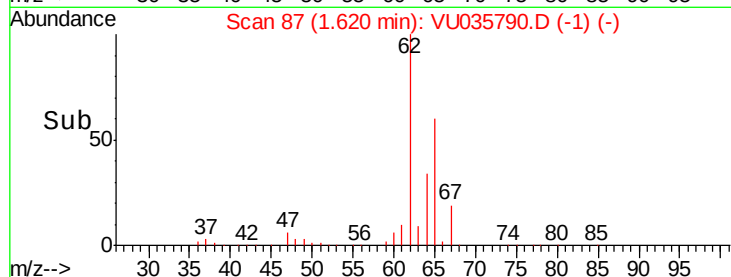
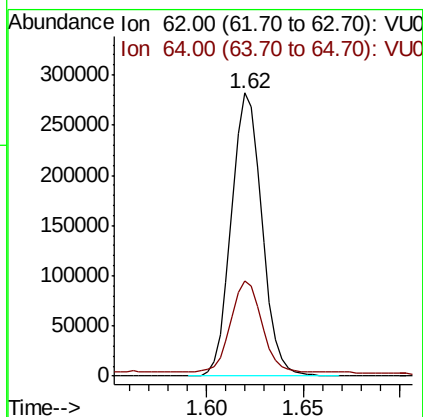
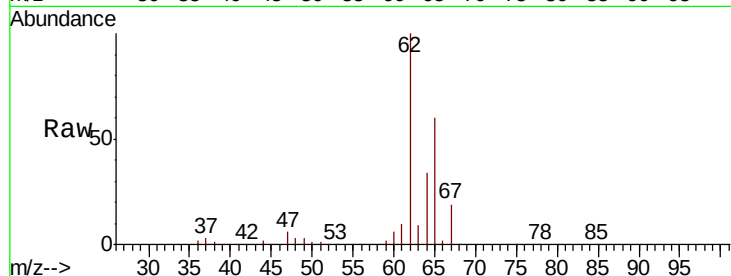
ClientSampleId :

Tot Ion: 62 Resp: 309634

Ion Ratio Lower Upper

62 100

64 33.8 23.7 43.9



#6

Bromomethane

Concen: 45.632 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035790.D

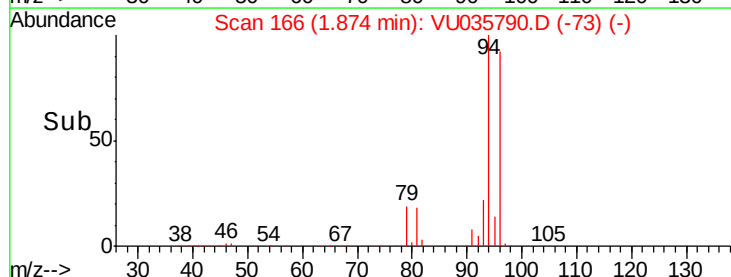
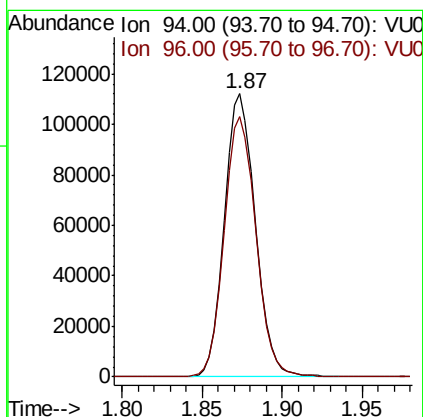
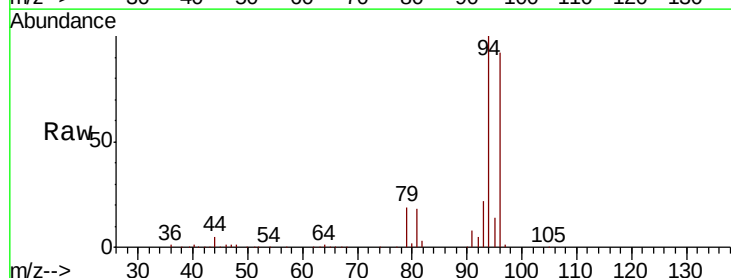
Acq: 20 Nov 2019 15:35

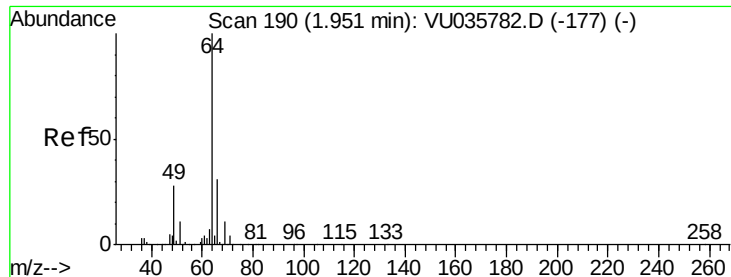
Tgt Ion: 94 Resp: 147338

Ion Ratio Lower Upper

94 100

96 92.2 67.5 125.4

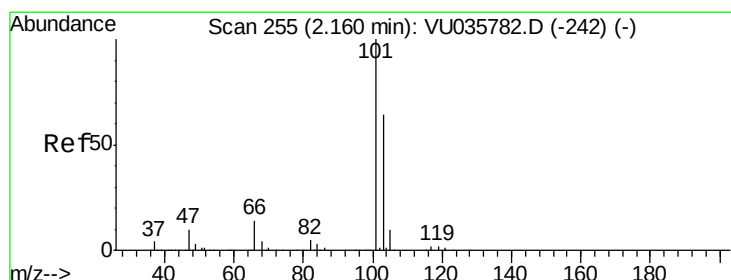
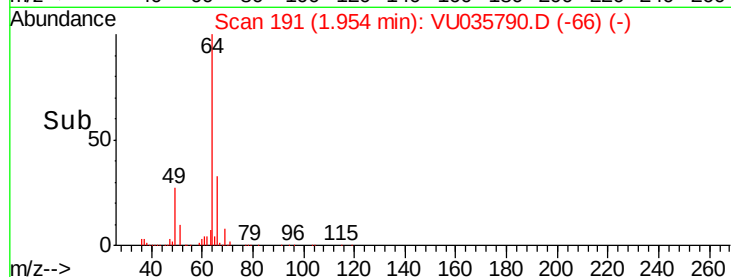
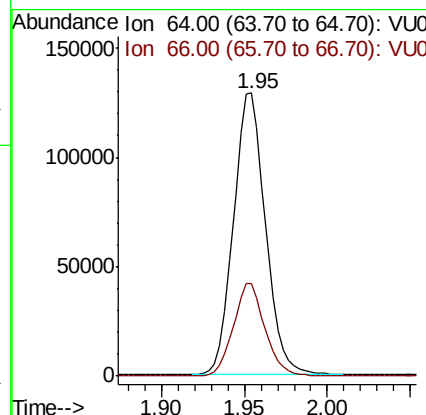
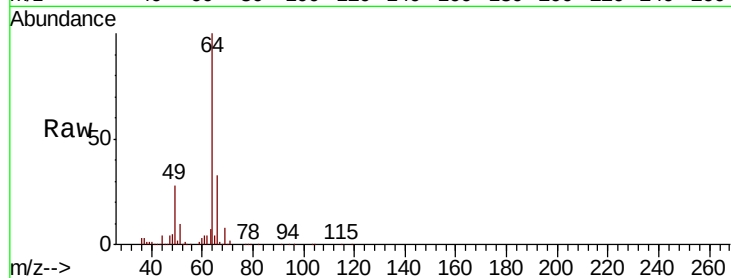




#8
Chloroethane
Concen: 46.502 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

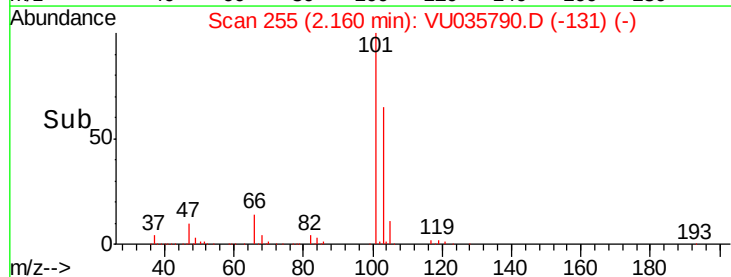
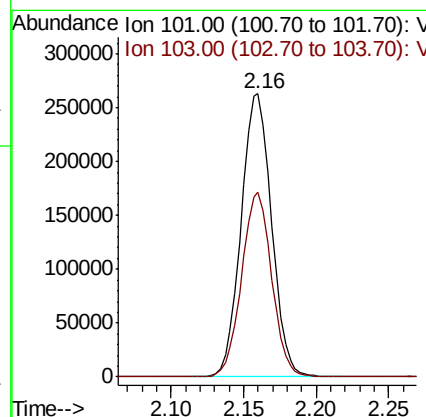
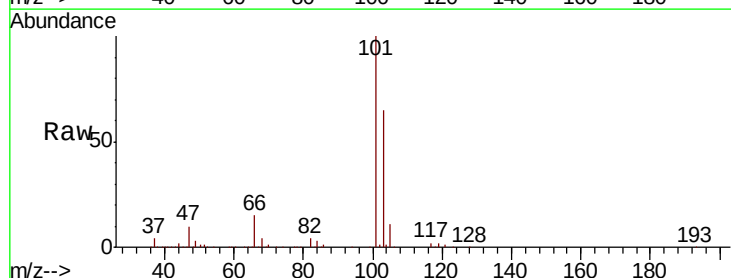
Instrument :
MSVOA_U
ClientSampled :

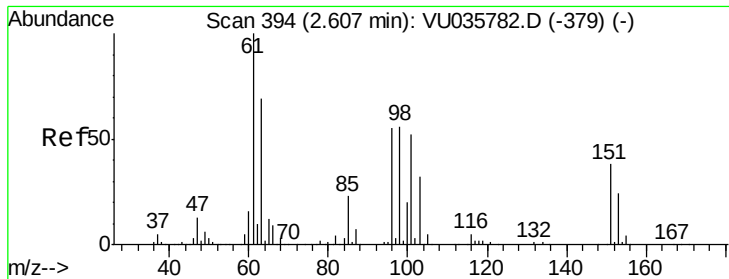
Tot Ion: 64 Resp: 172409
Ion Ratio Lower Upper
64 100
66 32.6 22.8 42.4



#9
Trichlorofluoromethane
Concen: 50.755 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

Tgt Ion:101 Resp: 383264
Ion Ratio Lower Upper
101 100
103 64.4 51.8 77.6





#10

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

Concen: 49.297 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

ClientSampled :

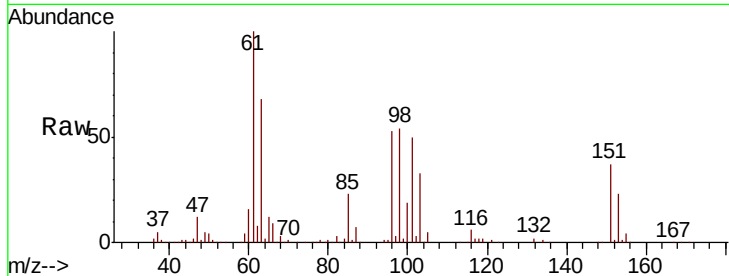
Tot Ion:101 Resp: 213706

Ion Ratio Lower Upper

101 100

85 46.2 34.0 51.0

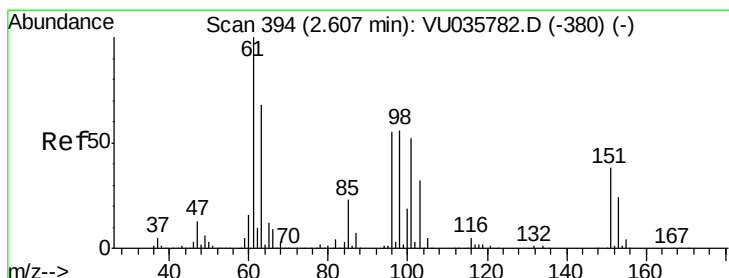
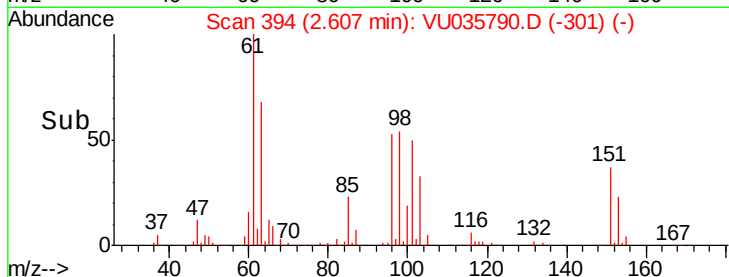
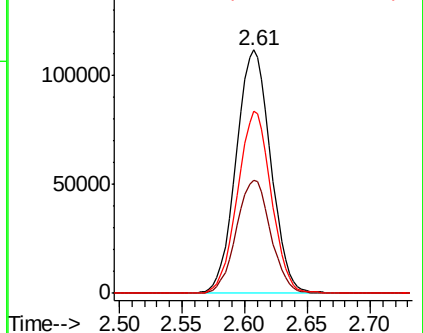
151 73.2 64.2 96.4



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: 46.225 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

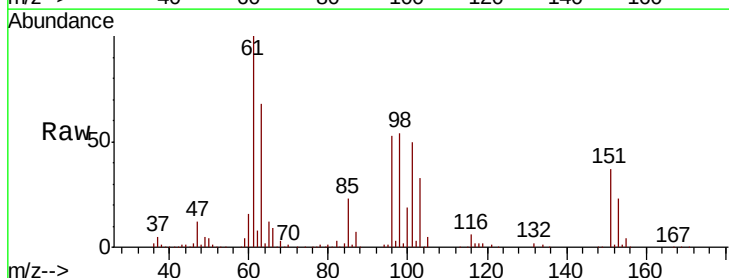
Tgt Ion: 96 Resp: 196826

Ion Ratio Lower Upper

96 100

61 188.0 113.1 210.1

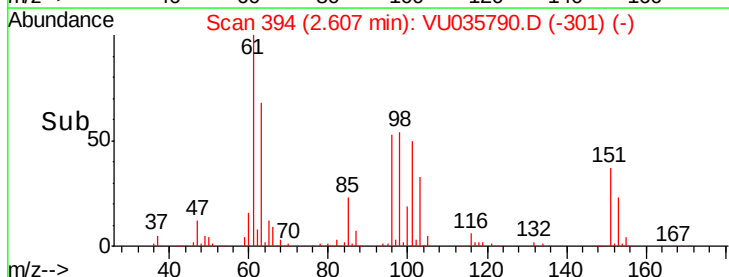
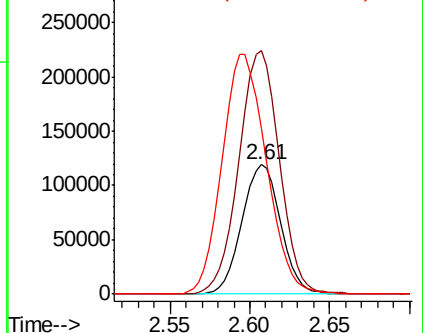
63 127.4 76.2 141.4

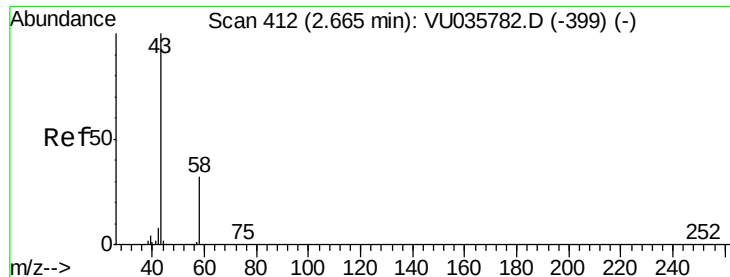


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 119.988 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

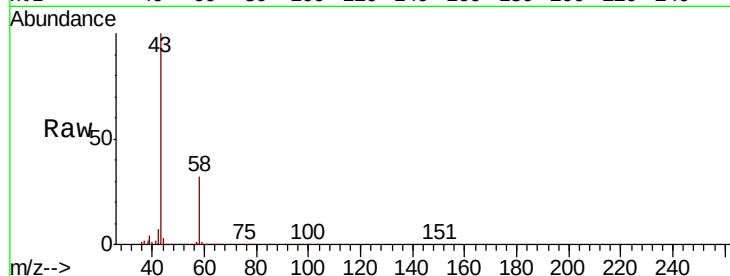
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 347170

Ion Ratio Lower Upper

43 100

58 32.3 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035782.D (-399) (-)

Ion 58.00 (57.70 to 58.70): VU035782.D (-399) (-)

2.66

200000

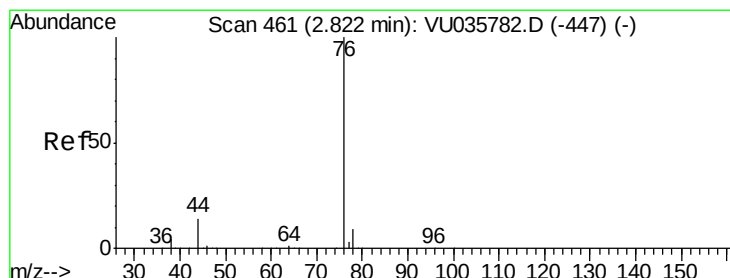
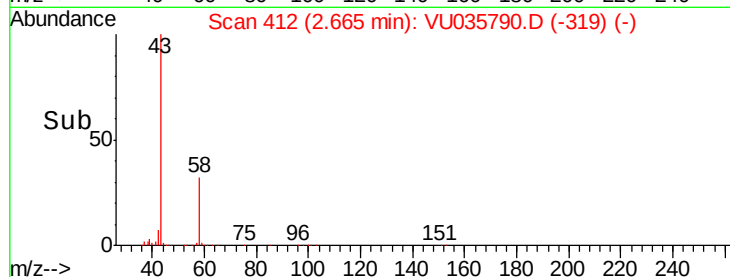
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 46.597 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035790.D

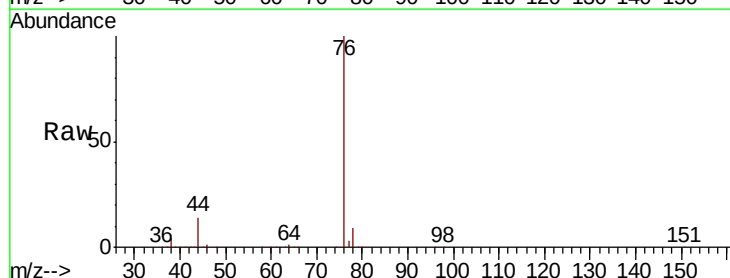
Acq: 20 Nov 2019 15:35

Tgt Ion: 76 Resp: 611287

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU035782.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU035782.D (-447) (-)

2.82

400000

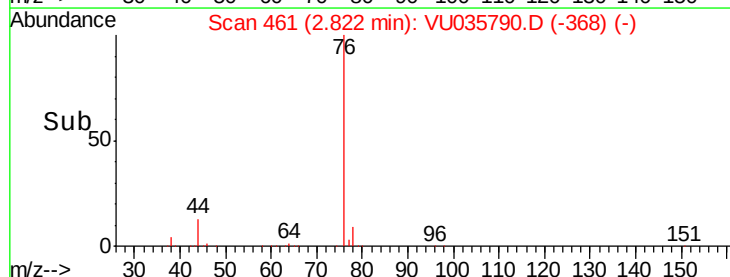
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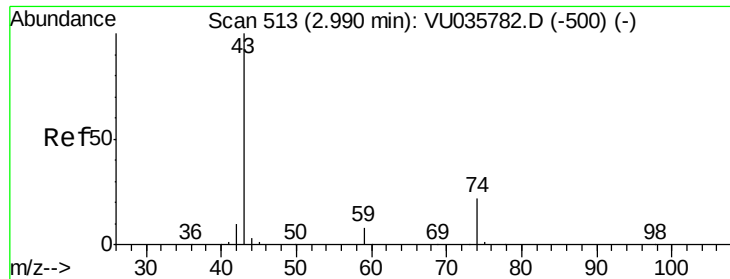
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100000

0

Time-->

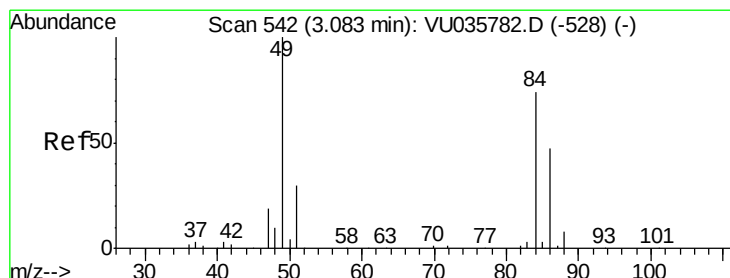
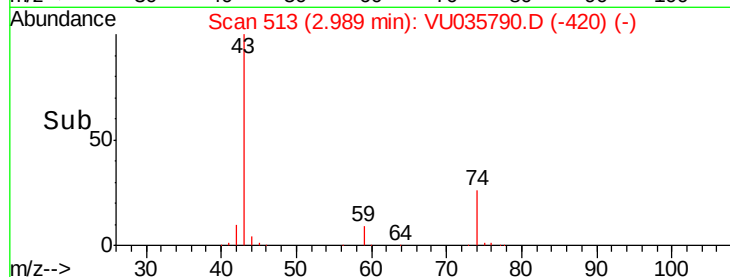
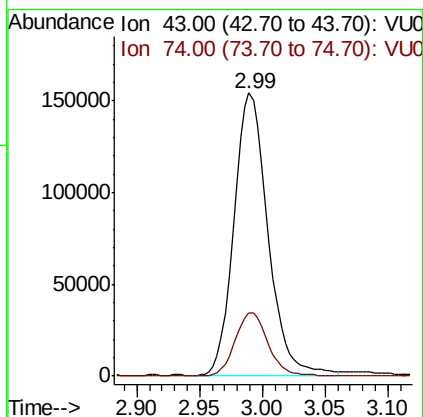
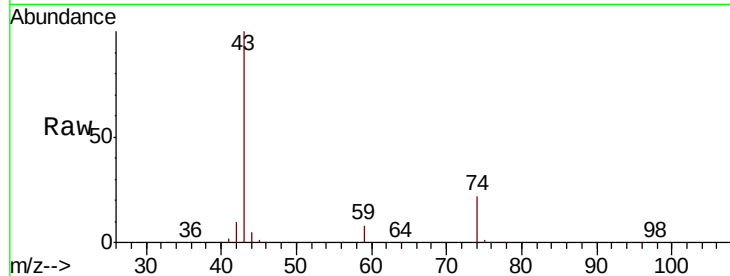




#15
Methyl Acetate
Concen: 55.297 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

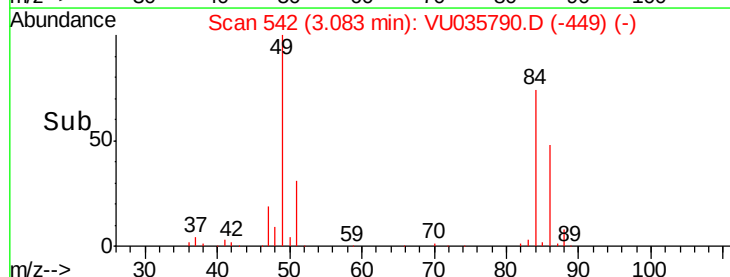
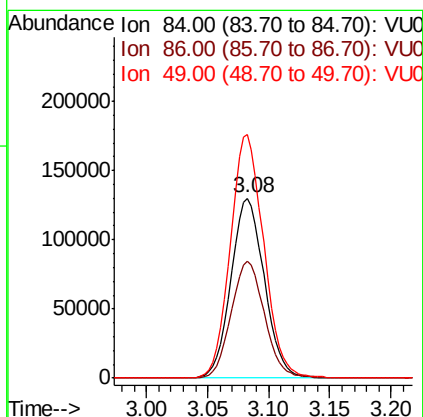
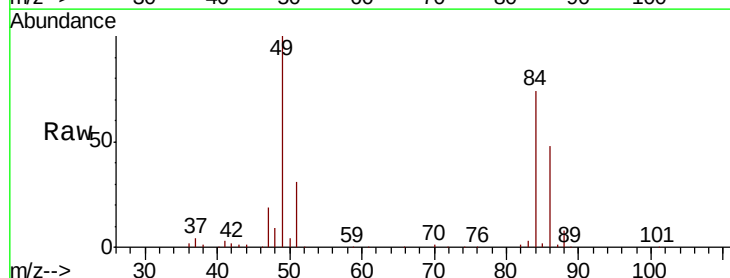
Instrument :
MSVOA_U
ClientSampleId :

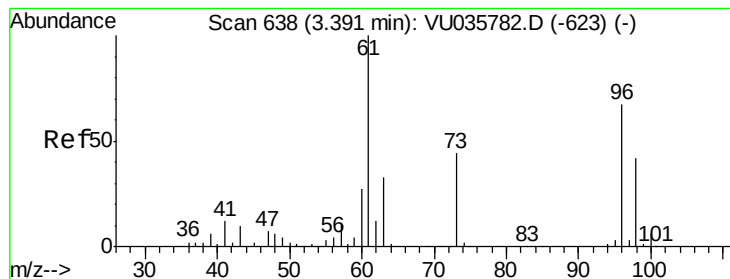
Tot Ion: 43 Resp: 289791
Ion Ratio Lower Upper
43 100
74 21.9 19.8 29.6



#16
Methylene chloride
Concen: 47.725 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

Tgt Ion: 84 Resp: 247953
Ion Ratio Lower Upper
84 100
86 65.3 45.1 83.7
49 135.6 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 46.077 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :
MSVOA_U
ClientSampled :

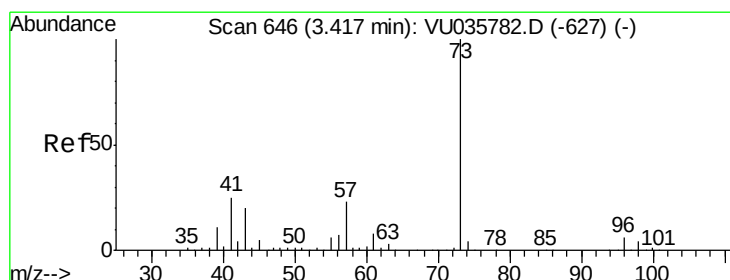
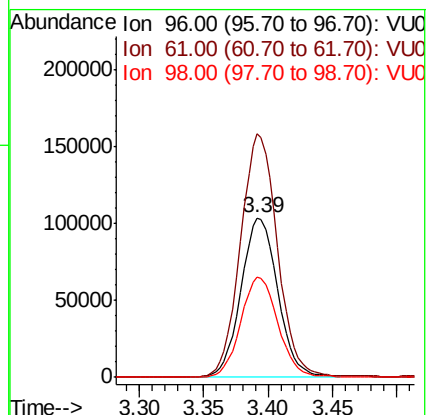
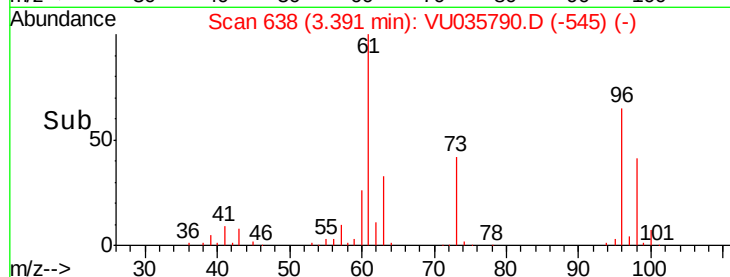
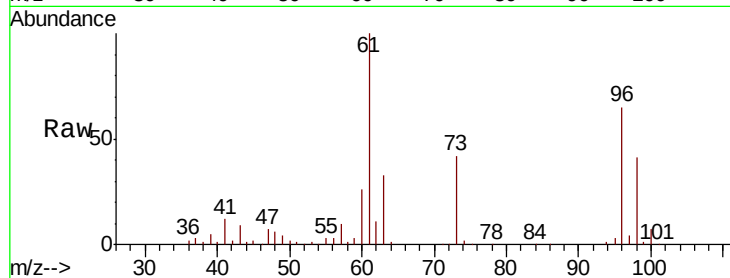
Tot Ion: 96 Resp: 206611

Ion Ratio Lower Upper

96 100

61 152.9 95.3 176.9

98 63.1 44.0 81.8



#18

Methyl tert-butyl Ether

Concen: 50.737 ug/L

RT: 3.42 min Scan# 646

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

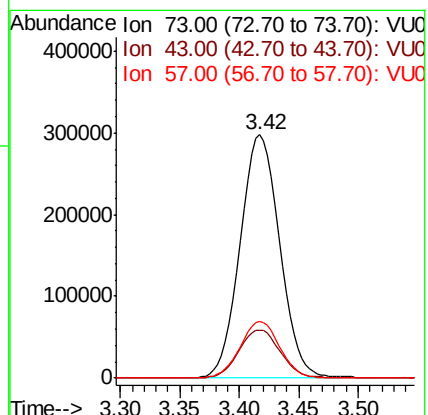
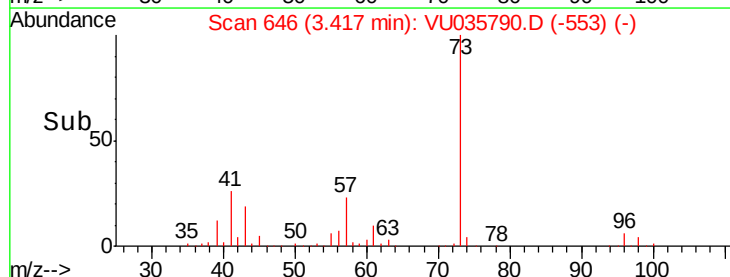
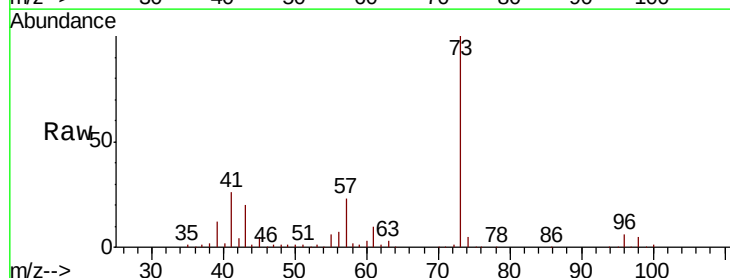
Tgt Ion: 73 Resp: 687845

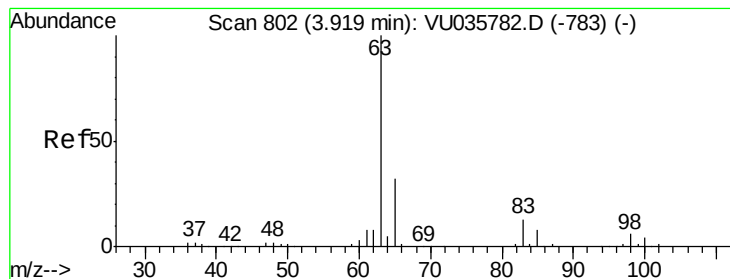
Ion Ratio Lower Upper

73 100

43 20.4 14.2 21.2

57 23.4 18.3 27.5





#19

1,1-Dichloroethane

Concen: 52.367 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

ClientSampled :

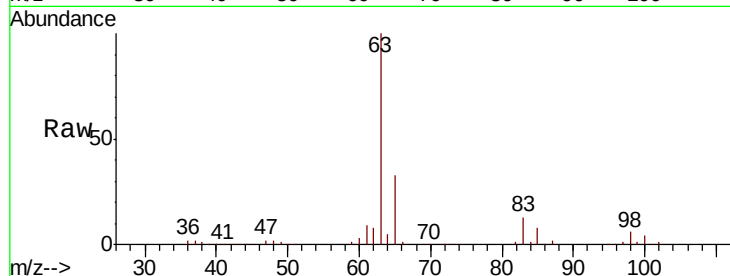
Tot Ion: 63 Resp: 452963

Ion Ratio Lower Upper

63 100

65 32.8 22.1 41.1

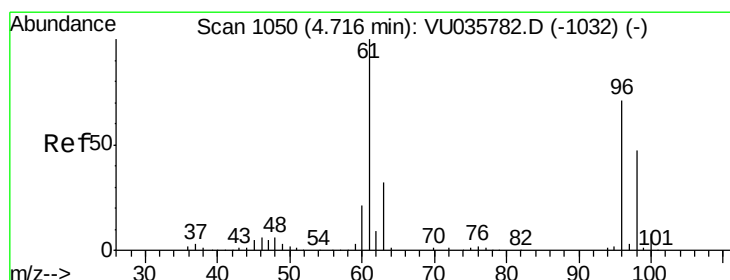
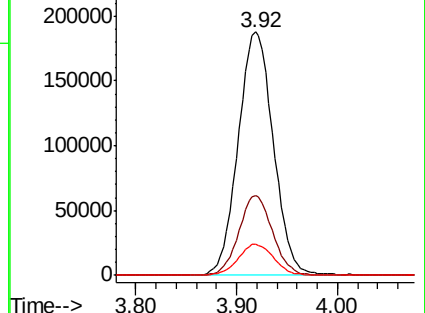
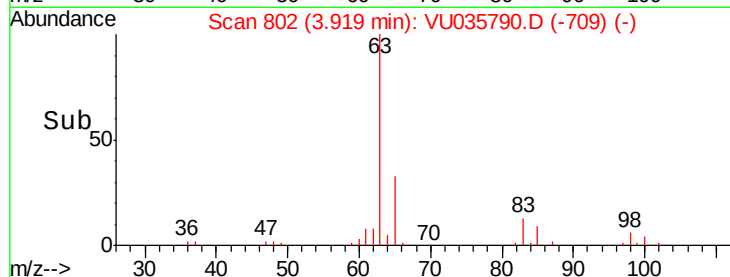
83 12.9 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU035782.D (-783) (-)

Ion 65.00 (64.70 to 65.70): VU035782.D (-783) (-)

Ion 83.00 (82.70 to 83.70): VU035782.D (-783) (-)



#20

cis-1,2-Dichloroethene

Concen: 46.533 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

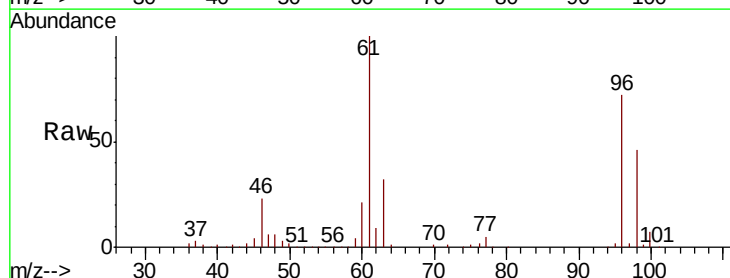
Tgt Ion: 96 Resp: 235346

Ion Ratio Lower Upper

96 100

61 139.3 90.6 168.3

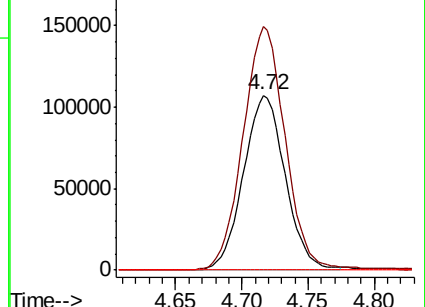
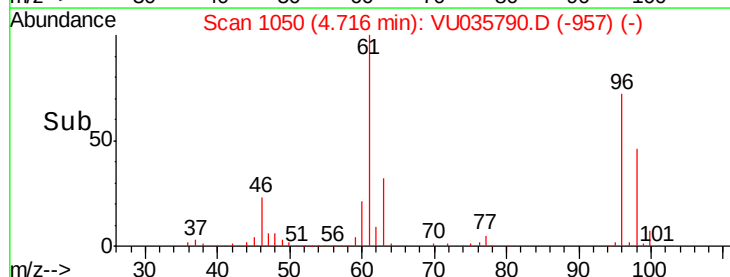
68 0.0 0.0 0.0

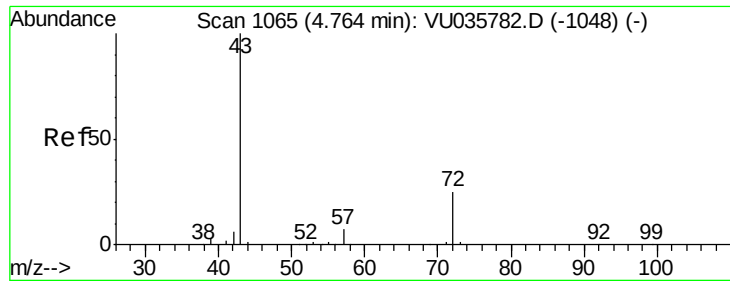


Abundance Ion 96.00 (95.70 to 96.70): VU035782.D (-1032) (-)

Ion 61.00 (60.70 to 61.70): VU035782.D (-1032) (-)

Ion 68.00 (67.70 to 68.70): VU035782.D (-1032) (-)





#22

2-Butanone

Concen: 115.609 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

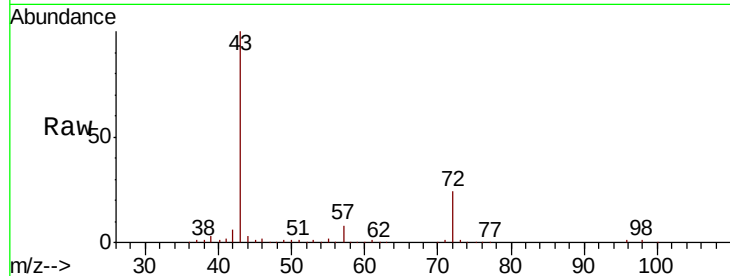
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 441562

Ion Ratio Lower Upper

43 100

72 24.8 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VU035782.D (-1048) (-)

Ion 72.00 (71.70 to 72.70): VU035782.D (-1048) (-)

4.77

200000

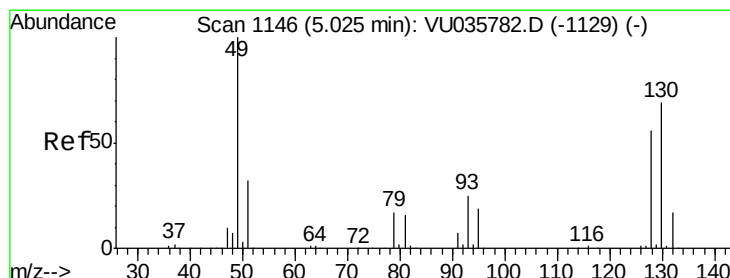
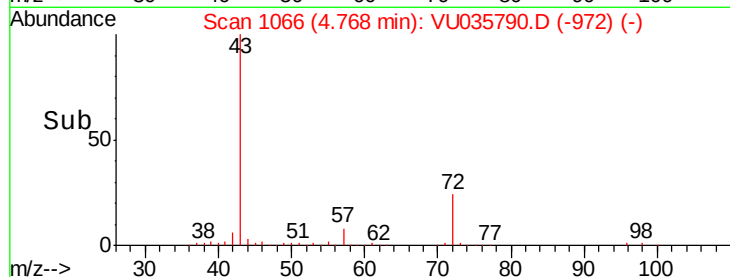
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 45.922 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Tgt Ion: 128 Resp: 122731

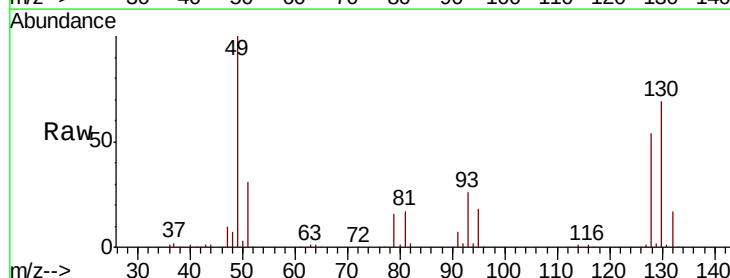
Ion Ratio Lower Upper

128 100

49 186.8 106.4 197.6

130 128.3 88.1 163.5

51 58.4 38.8 58.2#



Abundance Ion 128.00 (127.70 to 128.70): VU035782.D (-1129) (-)

Ion 49.00 (48.70 to 49.70): VU035782.D (-1129) (-)

Ion 130.00 (129.70 to 130.70): VU035782.D (-1129) (-)

Ion 51.00 (50.70 to 51.70): VU035782.D (-1129) (-)

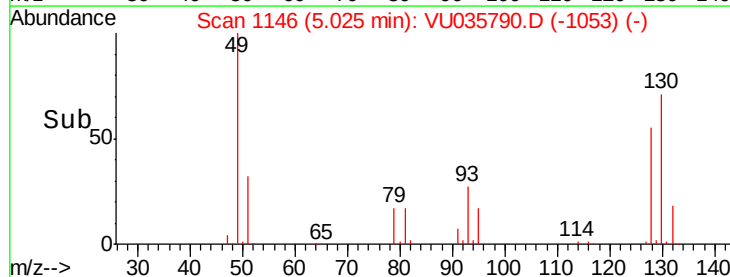
150000

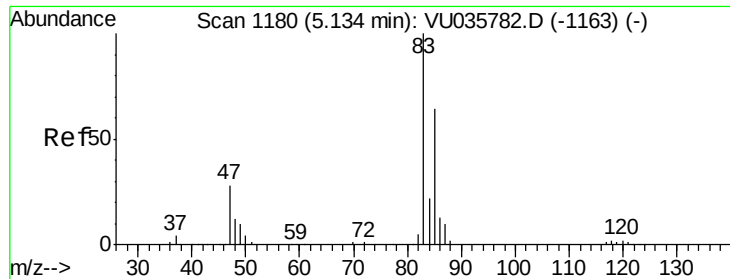
100000

50000

0

Time-->

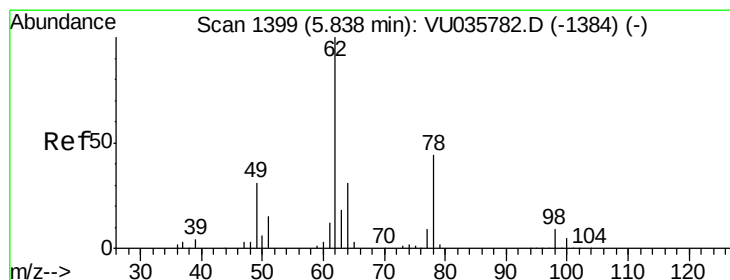
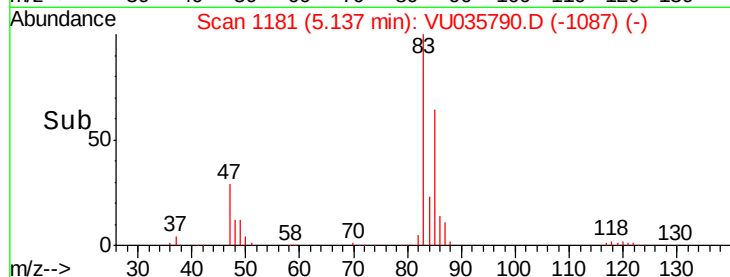
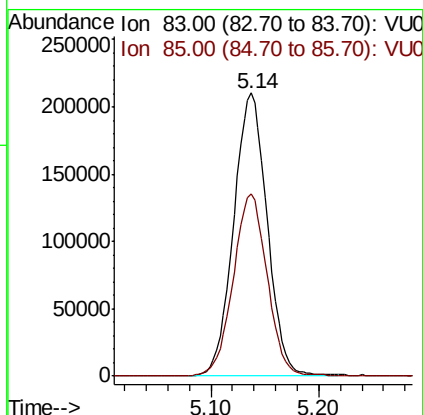
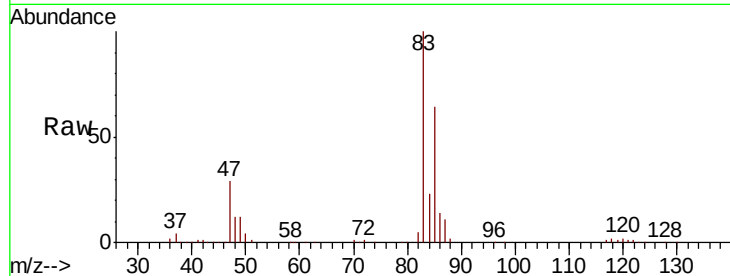




#25
Chloroform
Concen: 51.873 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

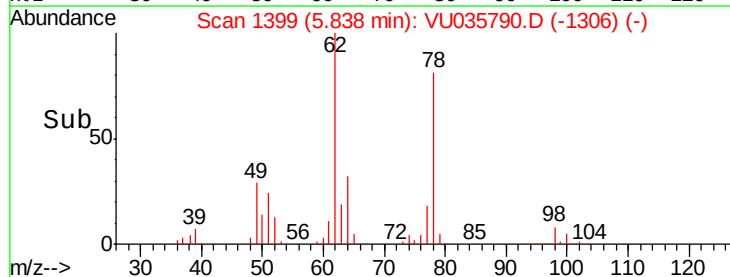
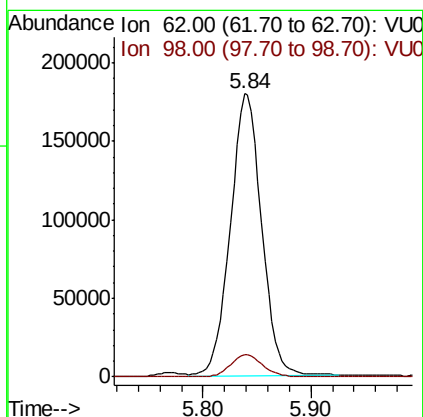
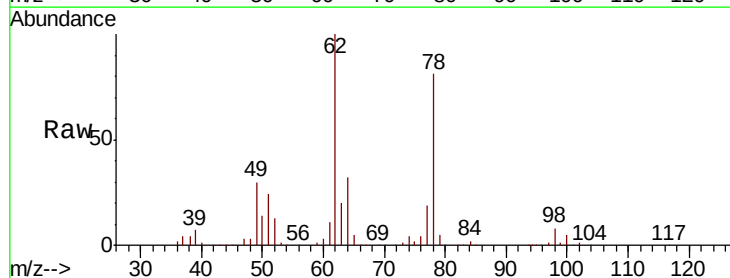
Instrument :
MSVOA_U
ClientSampled :

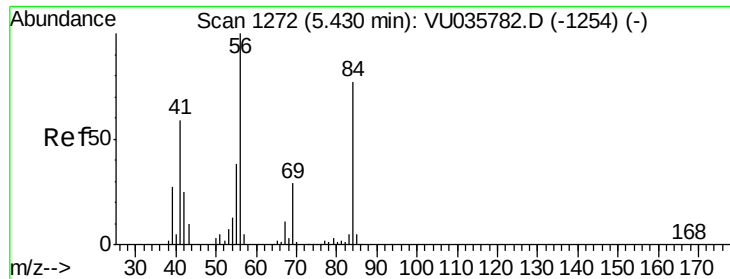
Tot Ion: 83 Resp: 455697
Ion Ratio Lower Upper
83 100
85 64.4 45.4 84.4



#27
1,2-Dichloroethane
Concen: 56.513 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

Tgt Ion: 62 Resp: 362700
Ion Ratio Lower Upper
62 100
98 8.0 8.2 12.2#

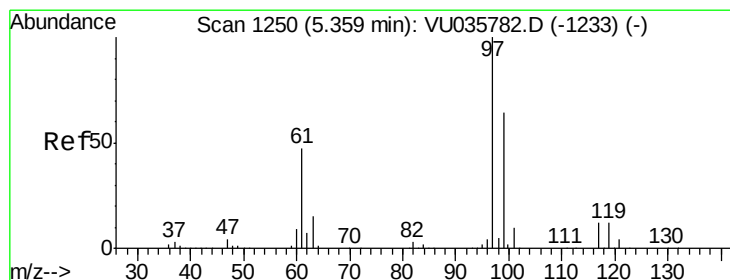
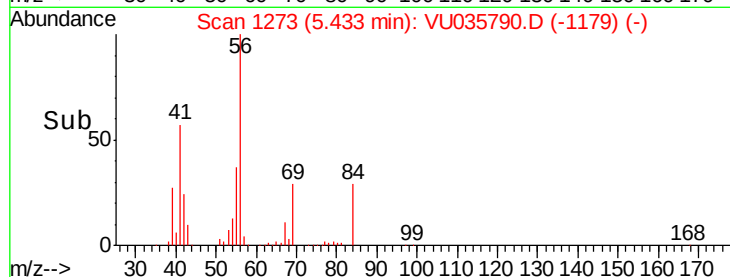
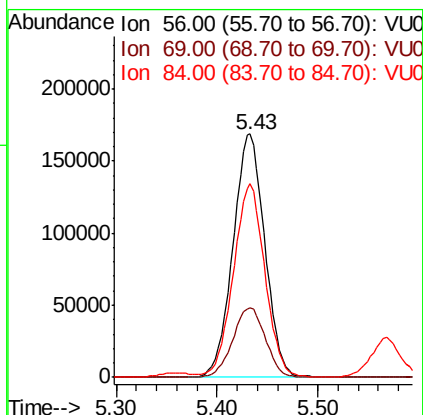
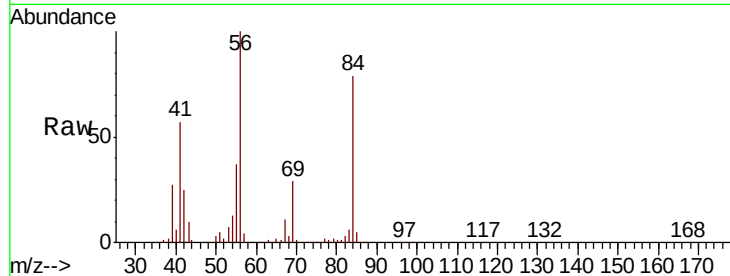




#29
Cyclohexane
Concen: 52.861 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

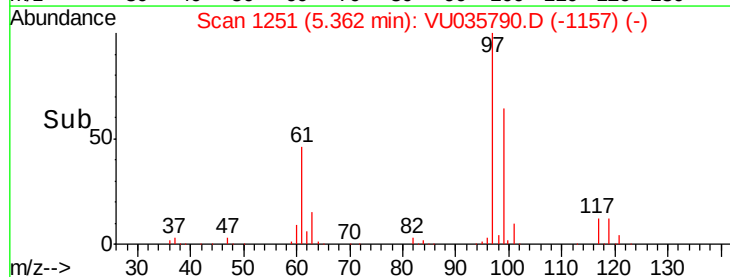
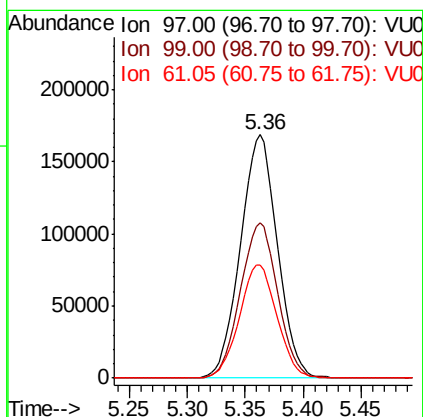
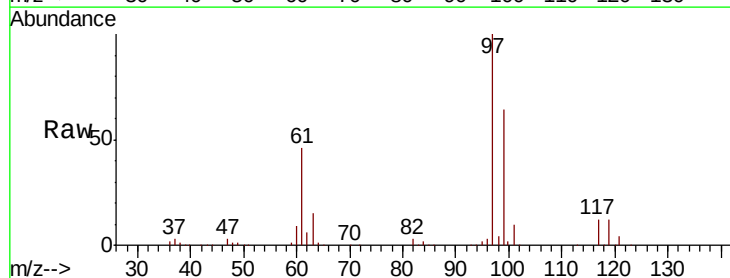
Instrument :
MSVOA_U
ClientSampleId :

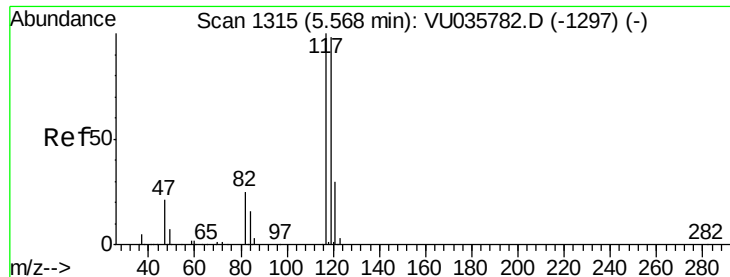
Tot Ion: 56 Resp: 368878
Ion Ratio Lower Upper
56 100
69 29.3 24.4 36.6
84 78.3 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 52.184 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

Tgt Ion: 97 Resp: 375243
Ion Ratio Lower Upper
97 100
99 64.2 51.5 77.3
61 46.8 35.1 52.7

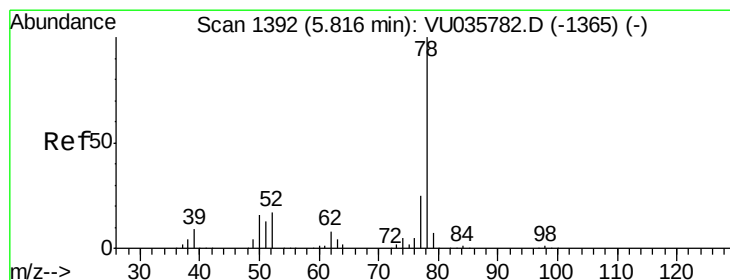
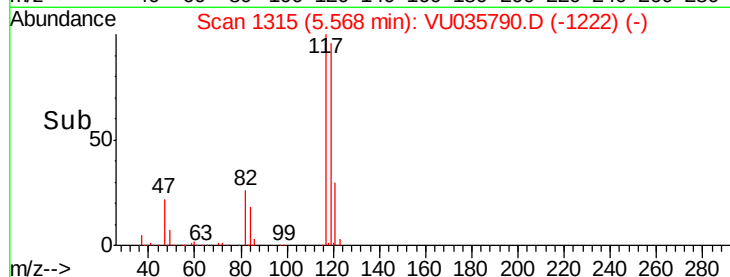
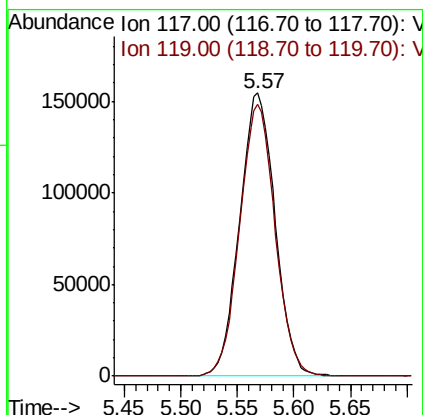
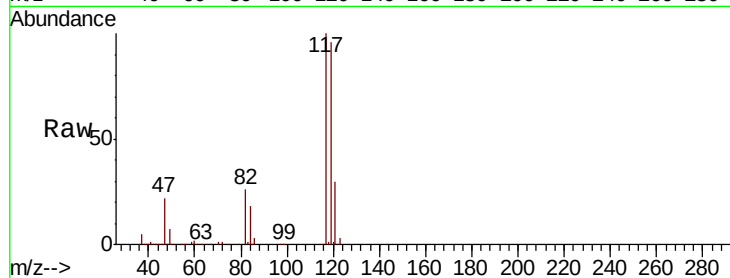




#31
Carbon tetrachloride
Concen: 52.823 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

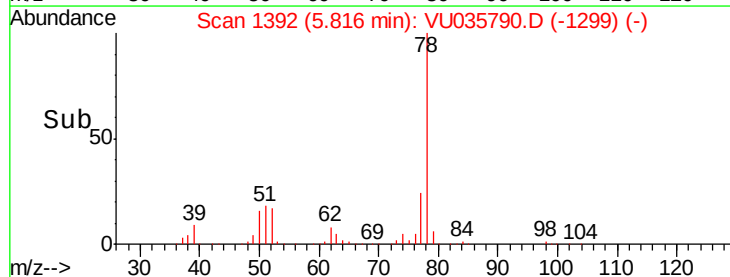
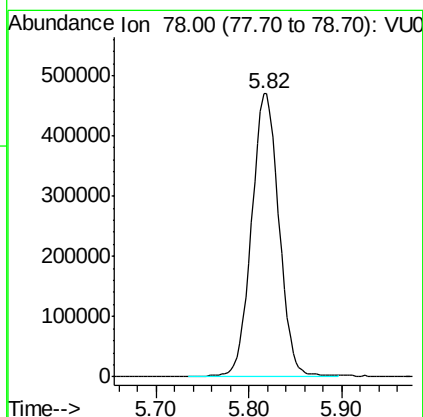
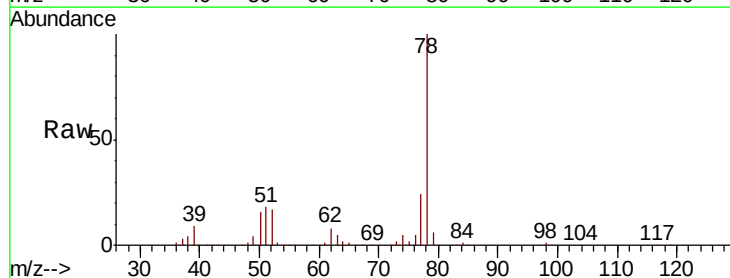
Instrument :
MSVOA_U
ClientSampleId :

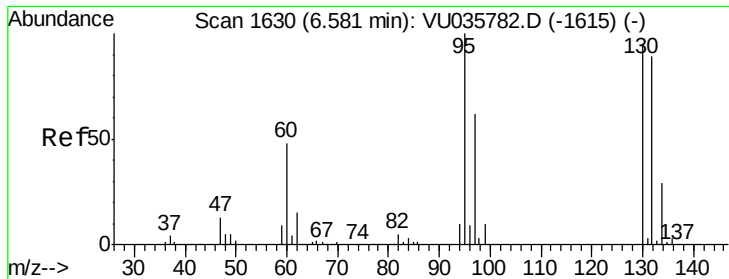
Tot Ion:117 Resp: 337740
Ion Ratio Lower Upper
117 100
119 95.5 77.4 116.2



#33
Benzene
Concen: 50.267 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

Tgt Ion: 78 Resp: 966501





#34

Trichloroethene

Concen: 48.031 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 234784

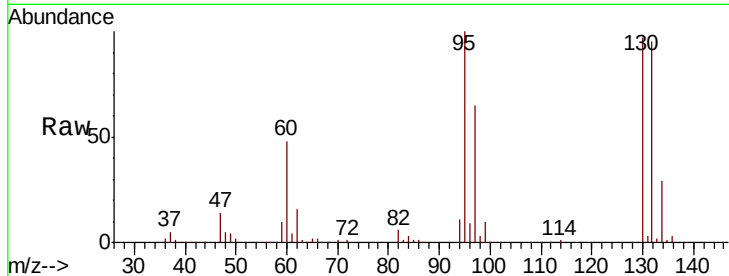
Ion Ratio Lower Upper

95 100

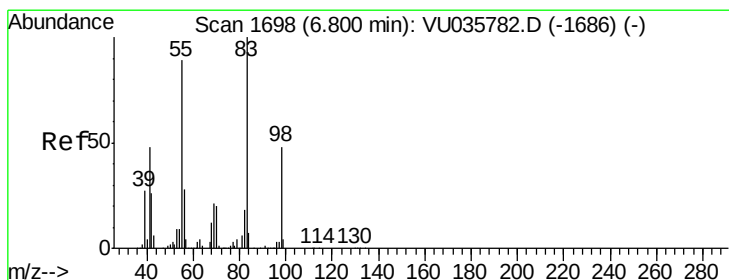
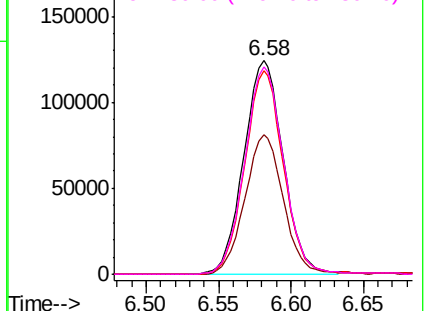
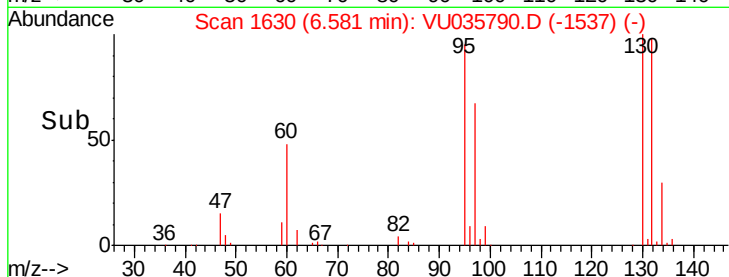
97 65.1 45.6 84.6

132 95.2 69.9 129.7

130 97.1 73.1 135.7



Abundance Ion 95.00 (94.70 to 95.70): VU035790.D (-1537) (-)



#35

Methylcyclohexane

Concen: 49.528 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

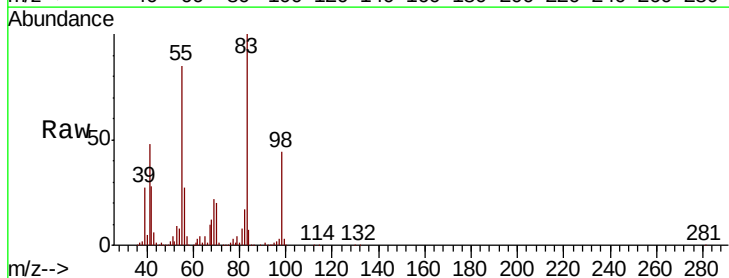
Tgt Ion: 83 Resp: 351613

Ion Ratio Lower Upper

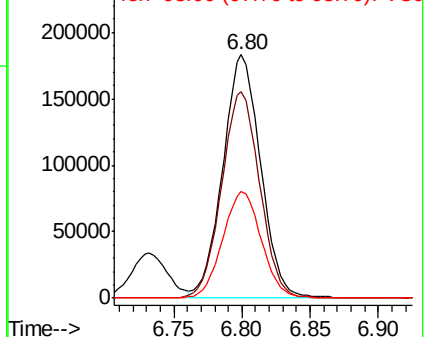
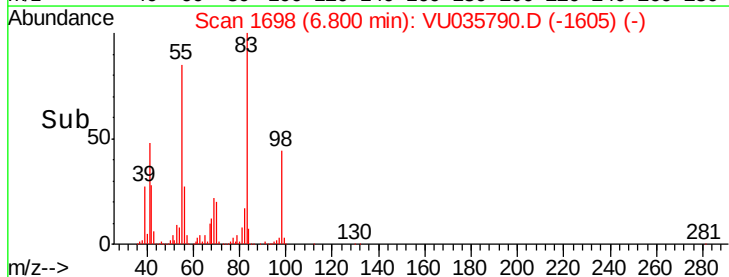
83 100

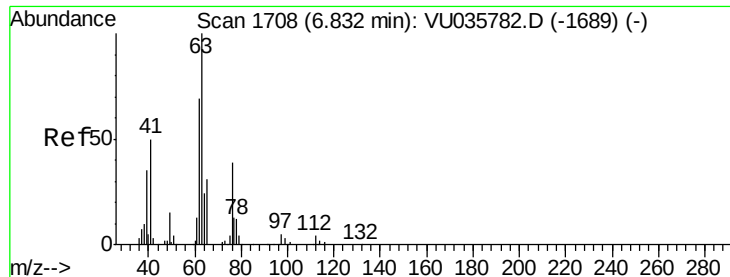
55 85.4 61.0 91.4

98 44.7 36.6 54.8



Abundance Ion 83.00 (82.70 to 83.70): VU035790.D (-1605) (-)

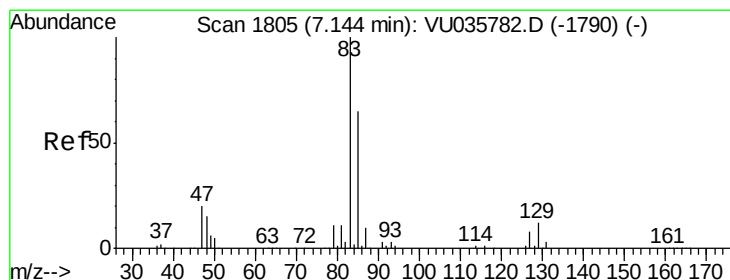
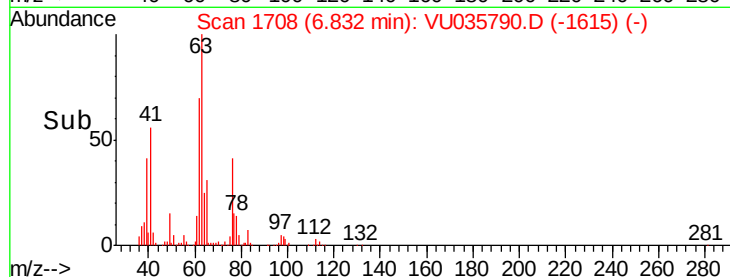
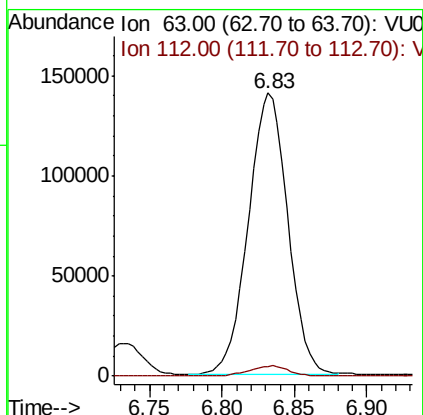
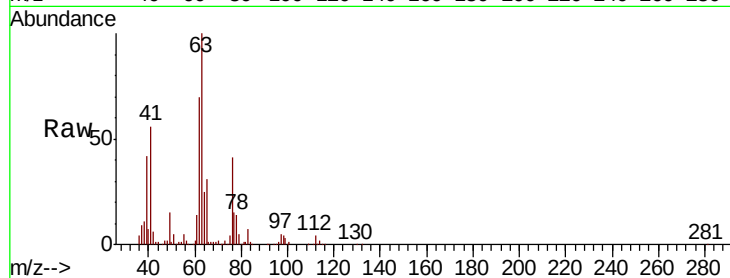




#37
 1,2-Dichloropropane
 Concen: 51.923 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

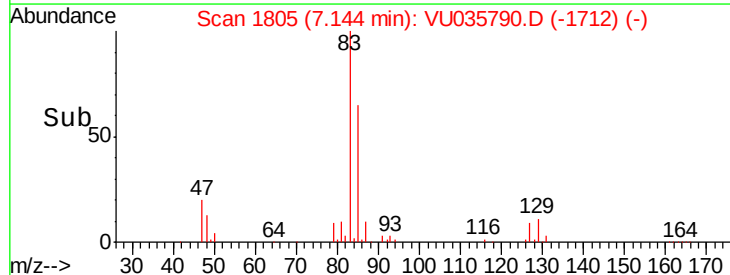
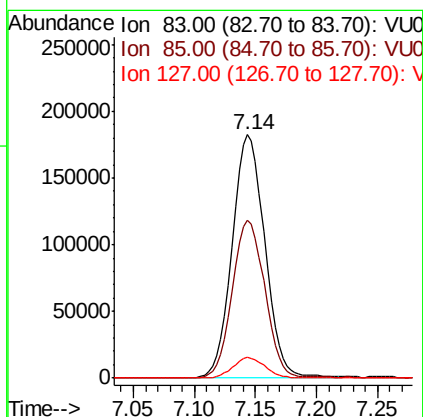
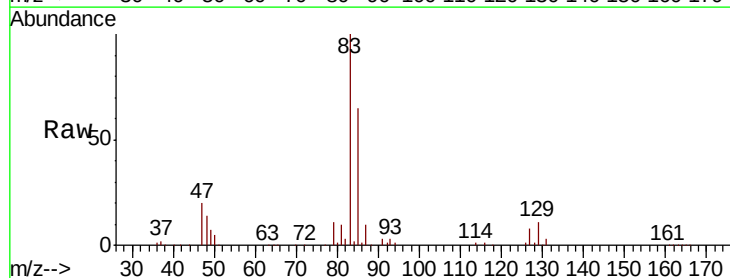
Instrument :
 MSVOA_U
 ClientSampled :

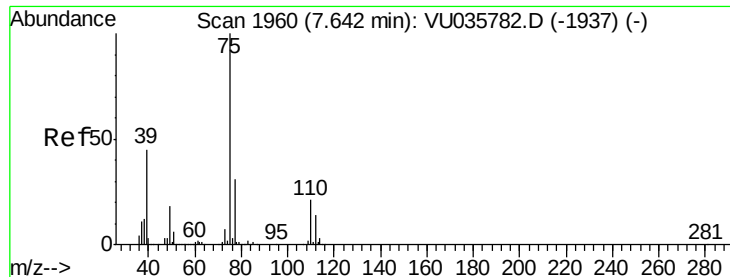
Tot Ion: 63 Resp: 267352
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.2 4.8



#38
 Bromodichloromethane
 Concen: 51.765 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Tgt Ion: 83 Resp: 338792
 Ion Ratio Lower Upper
 83 100
 85 64.9 45.1 83.7
 127 8.4 7.2 10.8



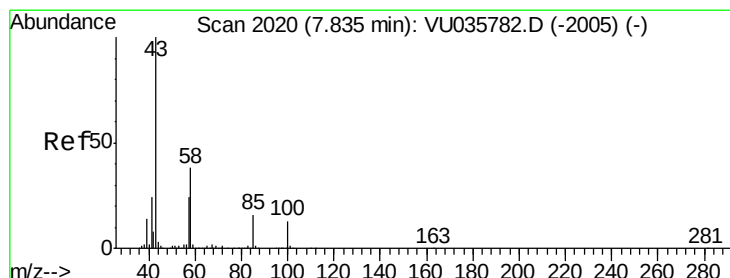
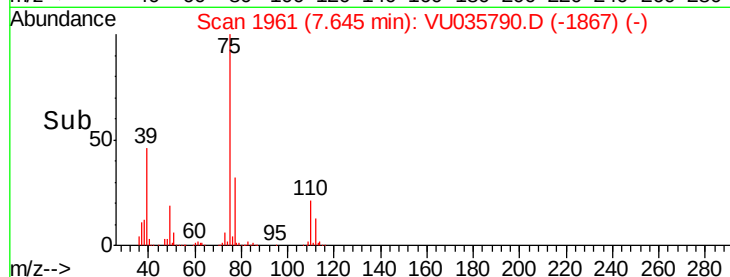
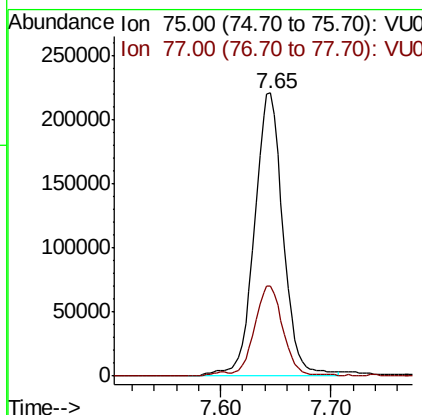
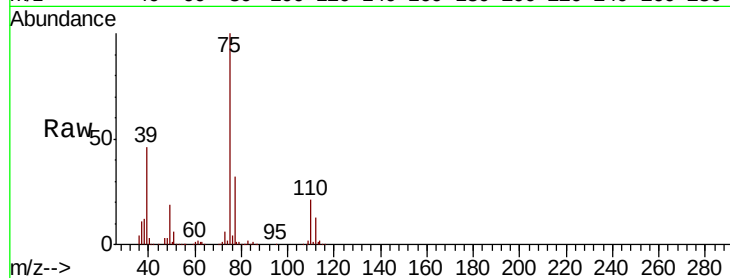


#39

cis-1,3-Dichloropropene
 Concen: 52.020 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Instrument :
 MSVOA_U
 ClientSampleId :

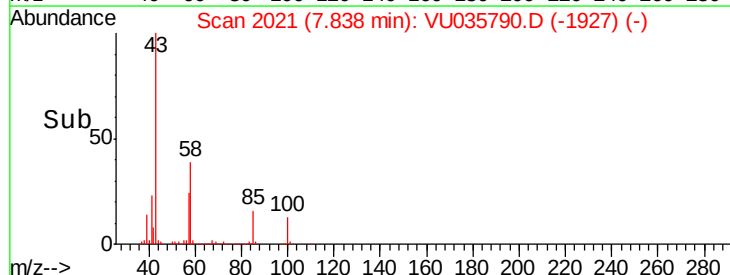
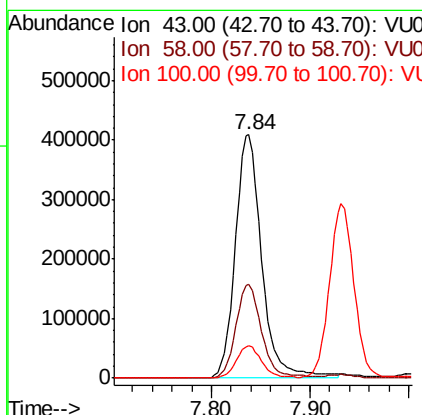
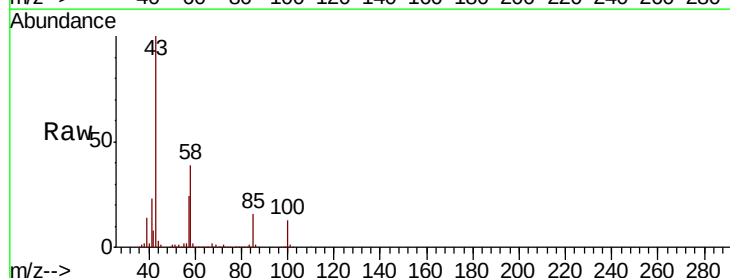
Tot Ion: 75 Resp: 398127
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5

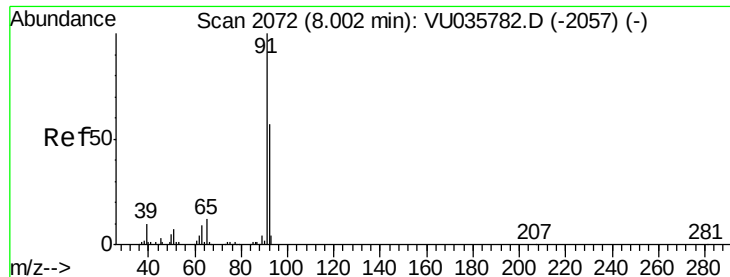


#40

4-Methyl-2-pentanone
 Concen: 110.642 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Tgt Ion: 43 Resp: 762148
 Ion Ratio Lower Upper
 43 100
 58 37.8 32.6 49.0
 100 12.7 12.6 19.0





#42

Toluene

Concen: 51.733 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

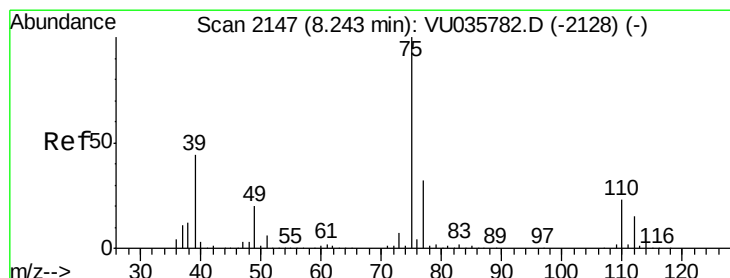
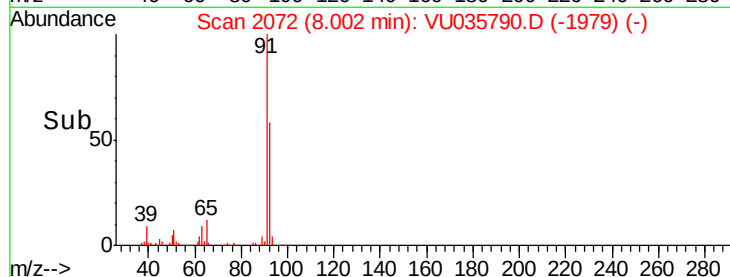
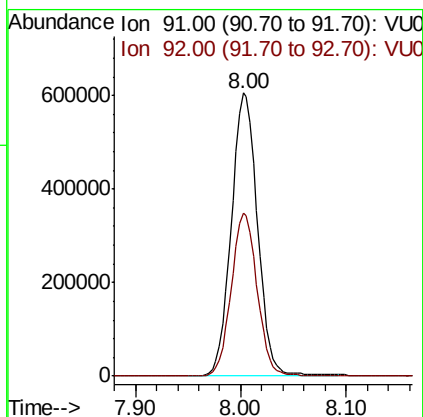
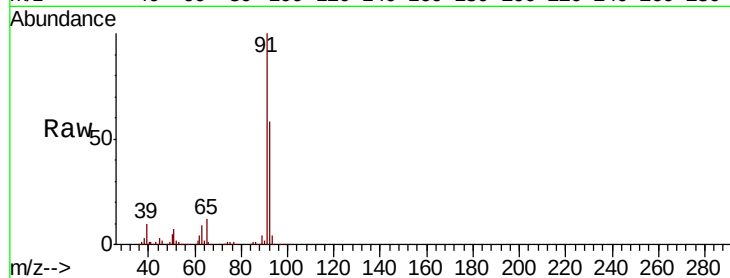
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1042520

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 52.677 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU035790.D

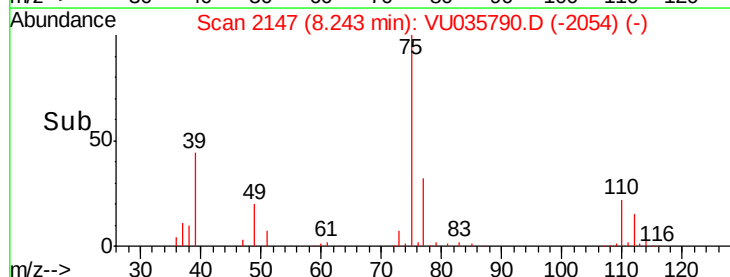
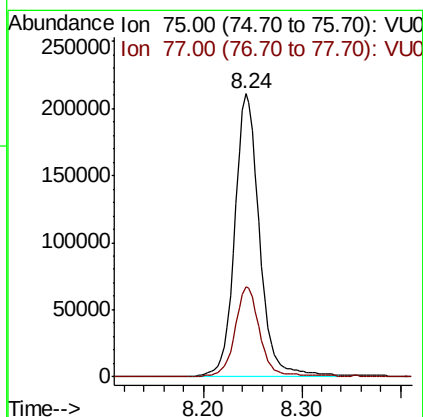
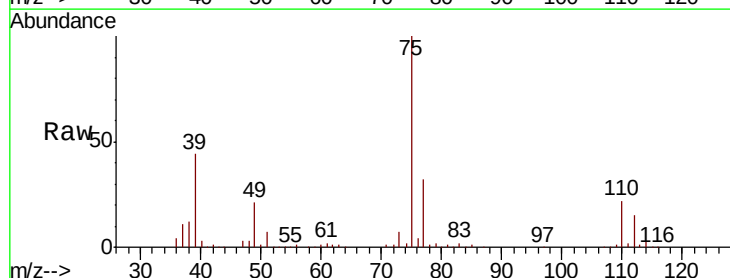
Acq: 20 Nov 2019 15:35

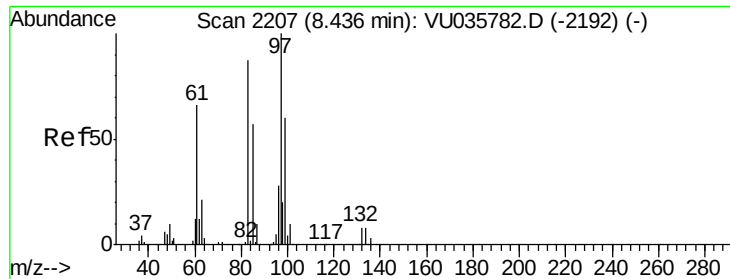
Tgt Ion: 75 Resp: 369548

Ion Ratio Lower Upper

75 100

77 31.9 22.1 41.1

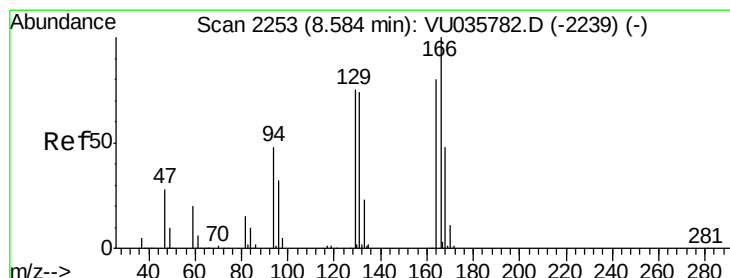
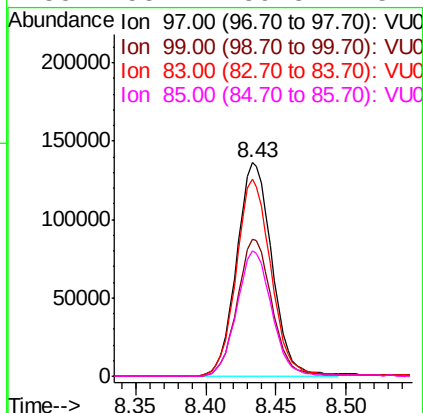
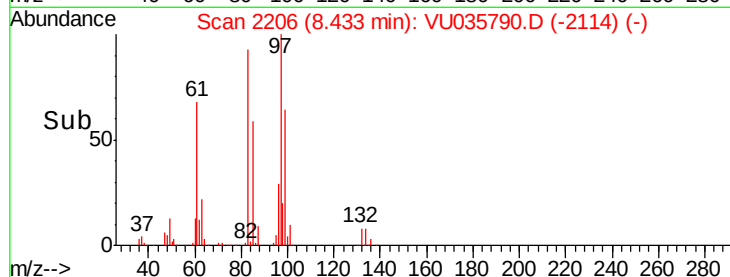
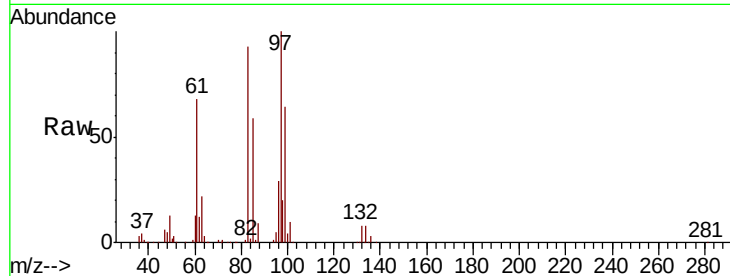




#45
 1,1,2-Trichloroethane
 Concen: 48.572 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

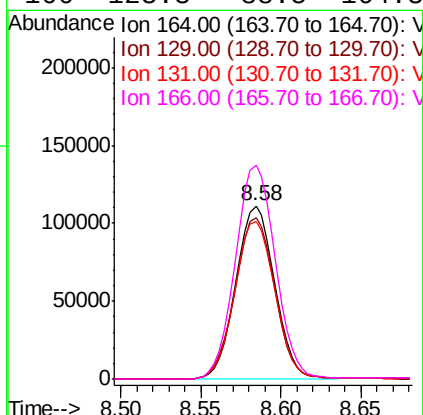
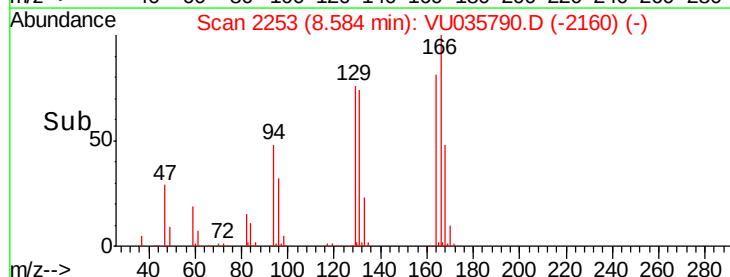
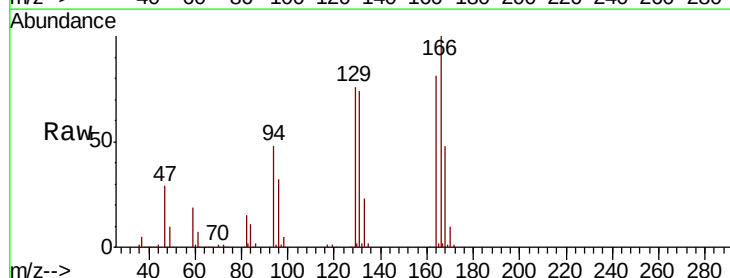
Instrument :
 MSVOA_U
 ClientSampleId :

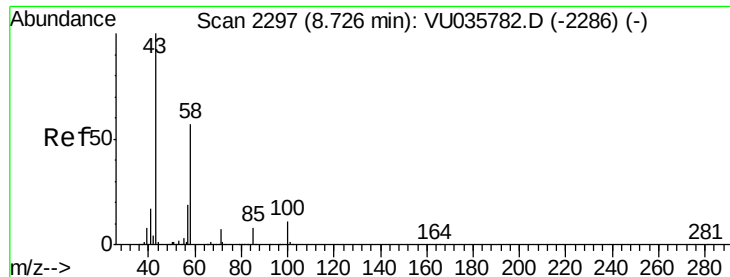
Tot Ion:	97	Resp:	239718
Ion	Ratio	Lower	Upper
97	100		
99	64.4	44.2	82.2
83	92.6	61.5	114.3
85	58.7	39.3	73.1



#46
 Tetrachloroethene
 Concen: 45.054 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Tgt Ion:	164	Resp:	184149
Ion	Ratio	Lower	Upper
164	100		
129	93.2	64.1	119.1
131	90.9	63.1	117.1
166	123.3	88.5	164.3

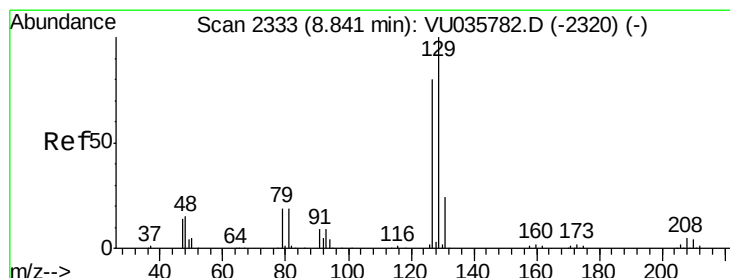
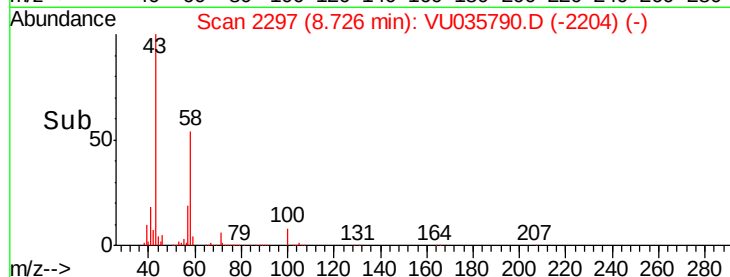
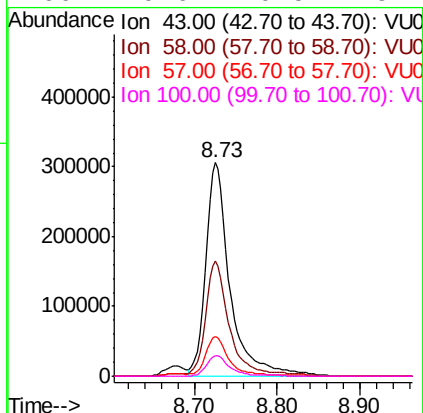
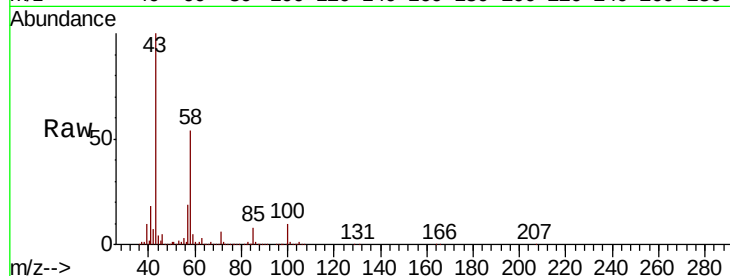




#48
2-Hexanone
Concen: 112.377 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

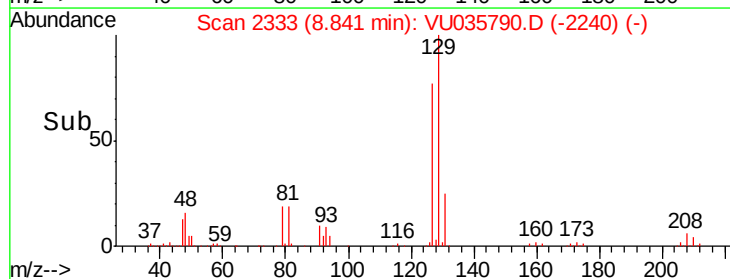
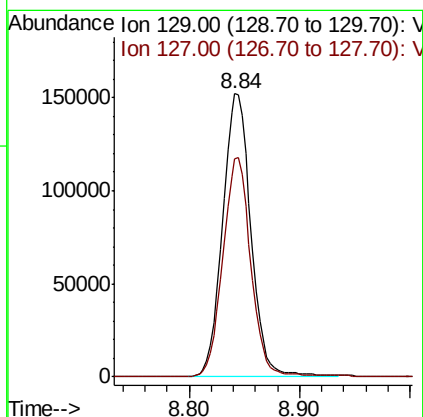
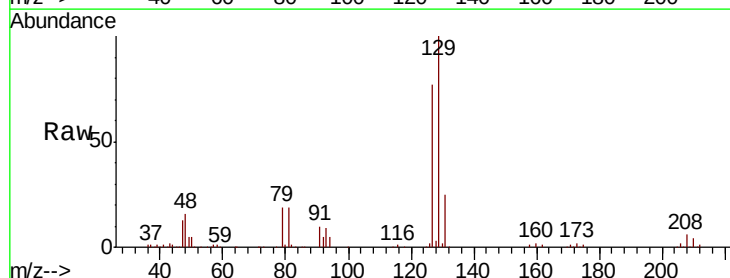
Instrument :
MSVOA_U
ClientSampleId :

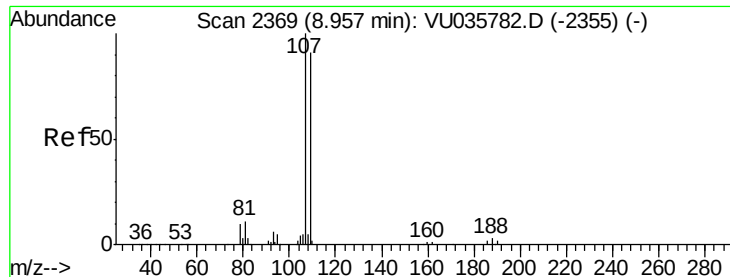
Tot Ion: 43 Resp: 629503
Ion Ratio Lower Upper
43 100
58 53.5 50.4 75.6
57 17.7 17.4 26.0
100 9.6 10.5 15.7#



#49
Dibromochloromethane
Concen: 48.761 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

Tgt Ion: 129 Resp: 271386
Ion Ratio Lower Upper
129 100
127 77.2 54.9 101.9

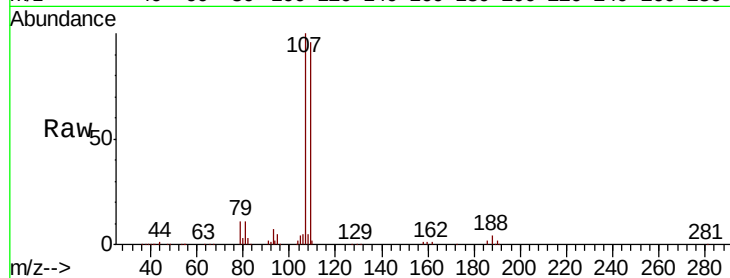




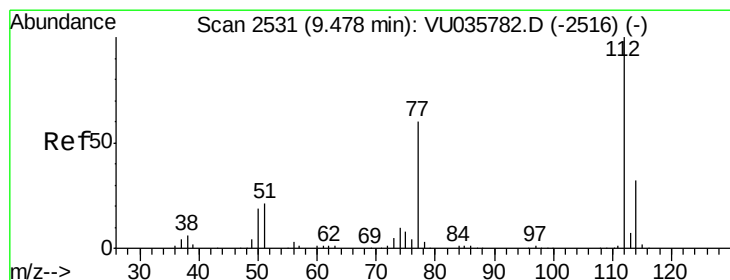
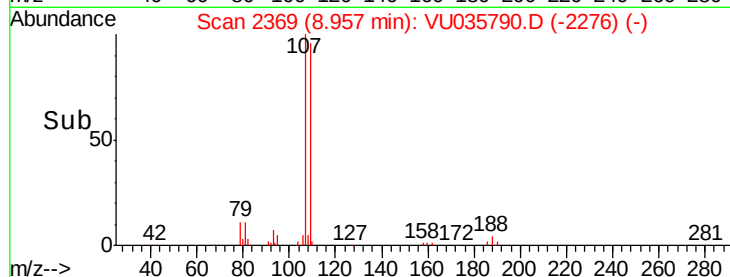
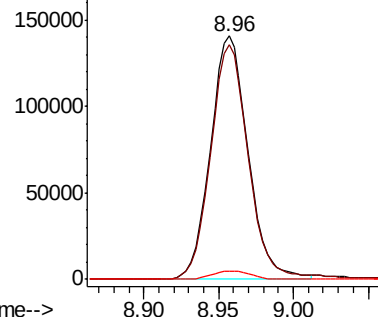
#50
 1,2-Dibromoethane
 Concen: 46.686 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.2	66.8	124.2
188	3.6	3.2	4.8

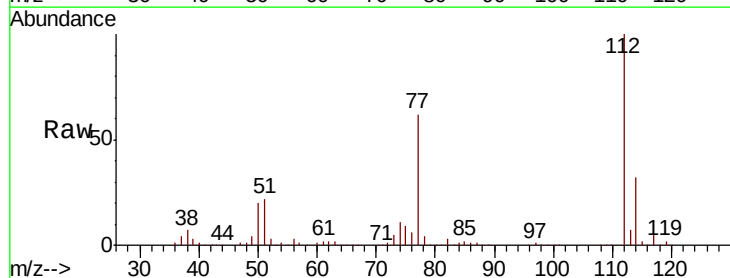


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

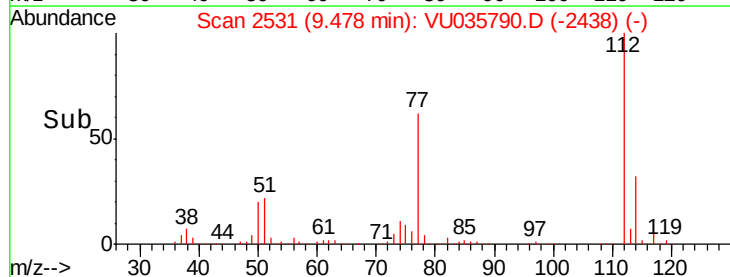
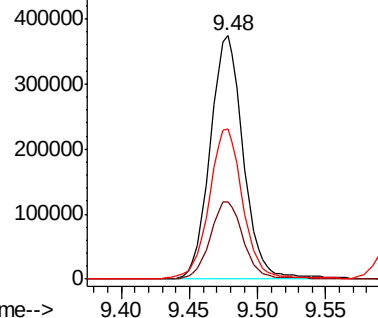


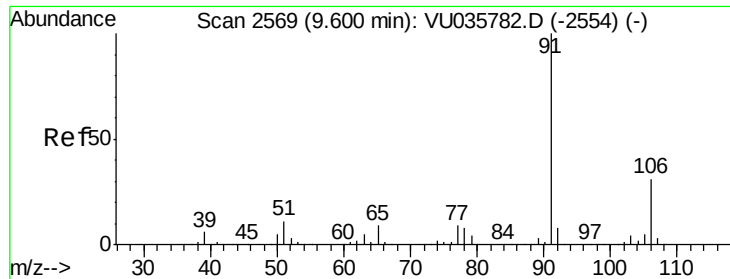
#51
 Chlorobenzene
 Concen: 46.696 ug/L
 RT: 9.48 min Scan# 2531
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.7	42.3
77	61.7	45.9	68.9



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: 50.590 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

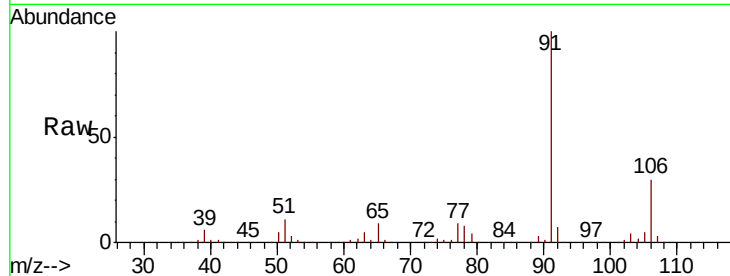
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1089902

Ion Ratio Lower Upper

91 100

106 30.4 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU035790.D (-2476) (-)

Ion 106.00 (105.70 to 106.70): VU035790.D (-2476) (-)

800000

600000

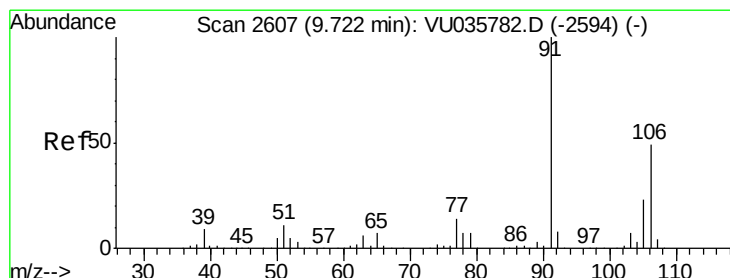
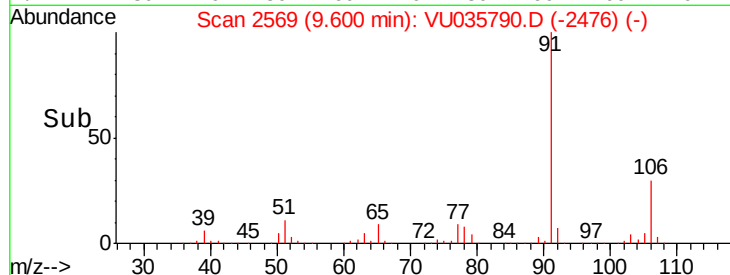
400000

200000

0

9.50 9.55 9.60 9.65 9.70

Time-->



#53

m,p-Xylene

Concen: 50.785 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035790.D

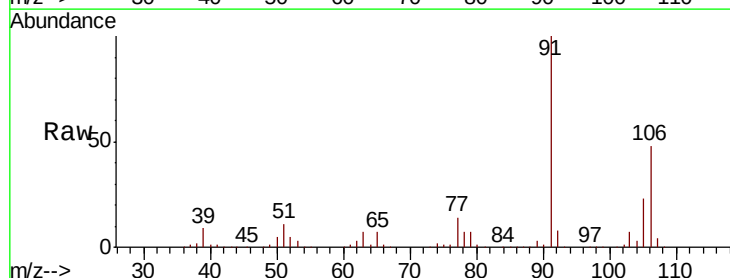
Acq: 20 Nov 2019 15:35

Tgt Ion: 106 Resp: 410543

Ion Ratio Lower Upper

106 100

91 209.4 142.7 264.9



Abundance Ion 106.00 (105.70 to 106.70): VU035790.D (-2514) (-)

Ion 91.00 (90.70 to 91.70): VU035790.D (-2514) (-)

600000

500000

400000

300000

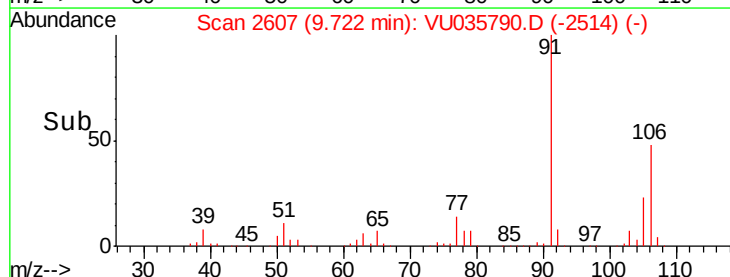
200000

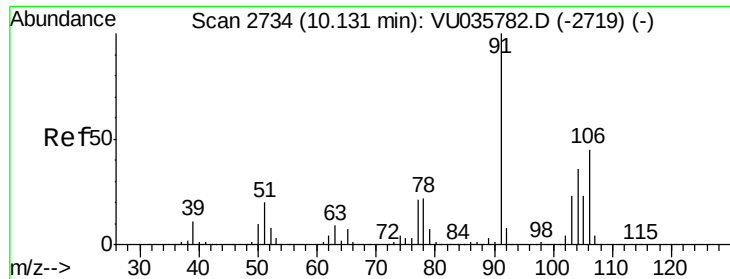
100000

0

9.70 9.72 9.74 9.76 9.78 9.80

Time-->

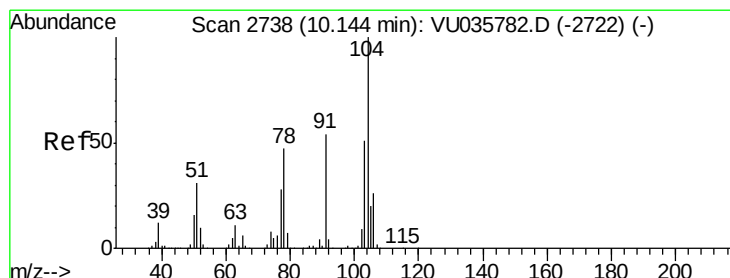
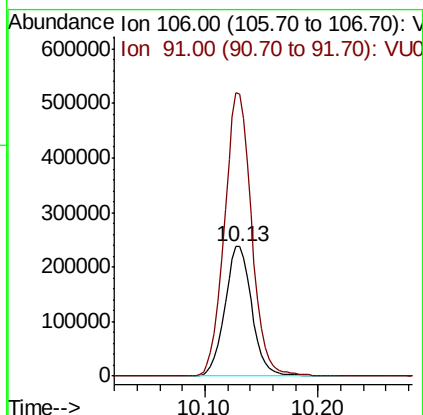
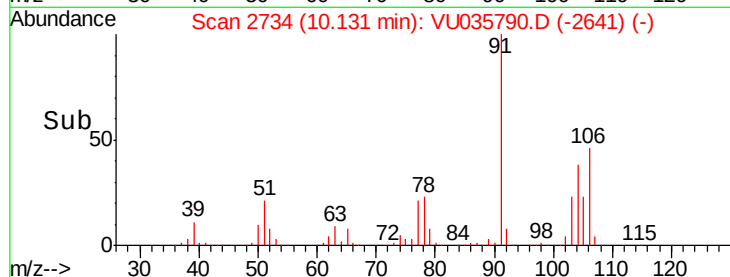
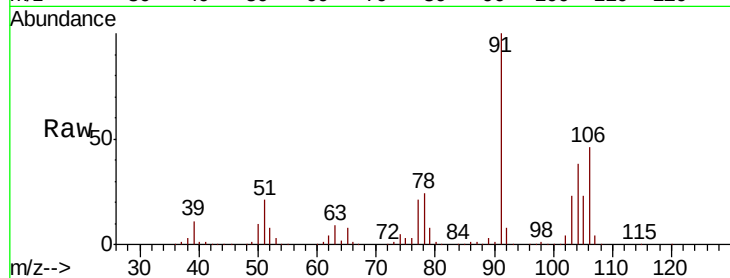




#54
o-xylene
Concen: 49.879 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

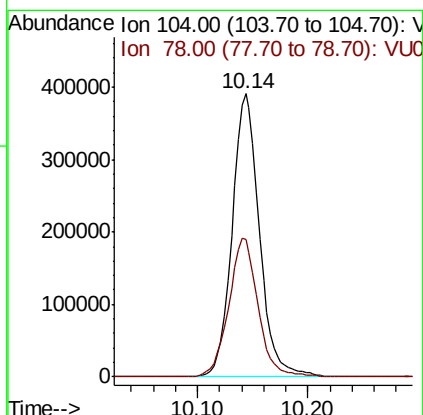
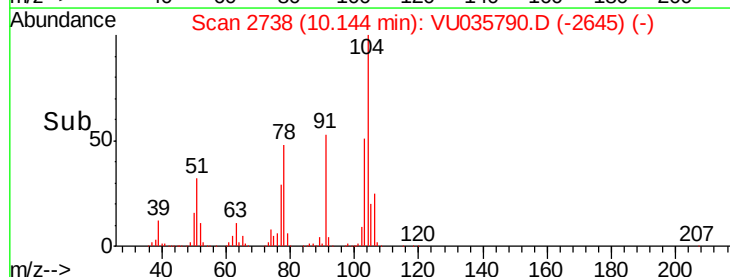
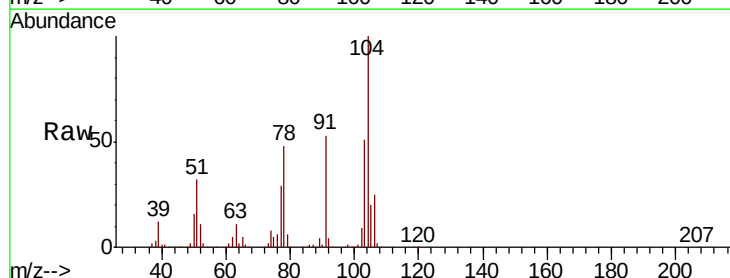
Instrument :
MSVOA_U
ClientSampled :

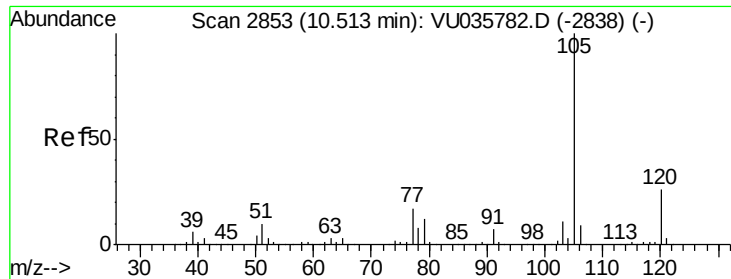
Tot Ion:106 Resp: 394105
Ion Ratio Lower Upper
106 100
91 217.8 147.1 273.1



#55
Styrene
Concen: 51.076 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. -0.00 min
Lab File: VU035790.D
Acq: 20 Nov 2019 15:35

Tgt Ion:104 Resp: 669740
Ion Ratio Lower Upper
104 100
78 48.5 31.4 58.4





#56

Isopropylbenzene

Concen: 50.804 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

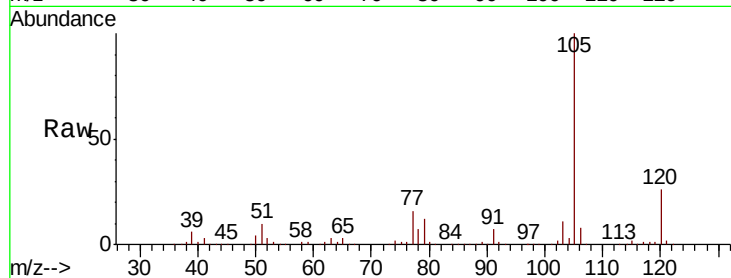
Tot Ion:105 Resp: 1008733

Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7

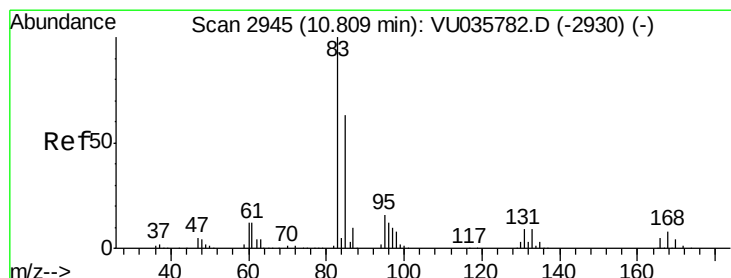
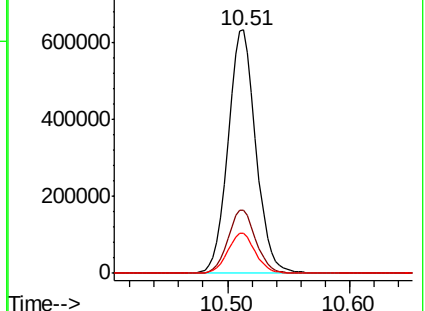
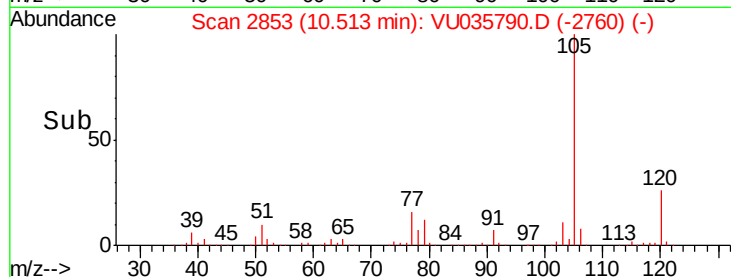
77 16.6 12.2 18.4



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: 49.382 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

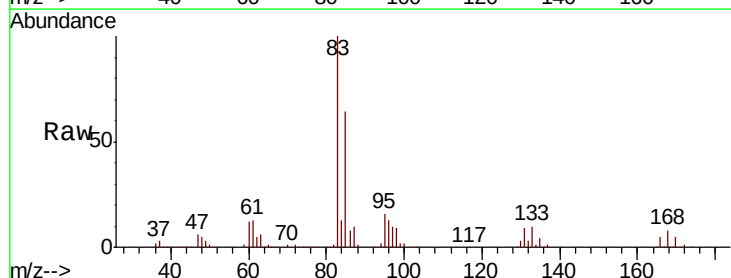
Tgt Ion: 83 Resp: 419792

Ion Ratio Lower Upper

83 100

85 64.2 44.6 82.8

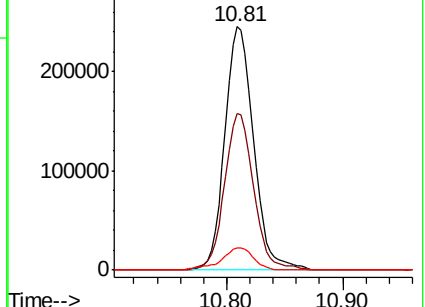
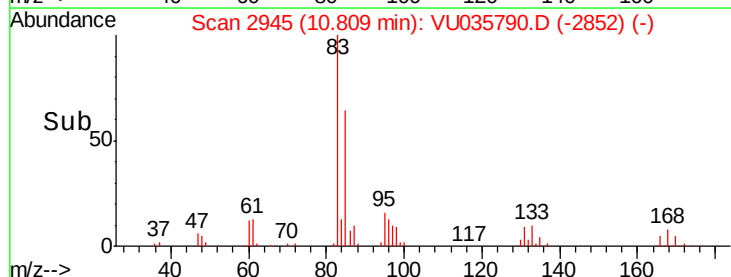
131 9.2 8.2 12.4

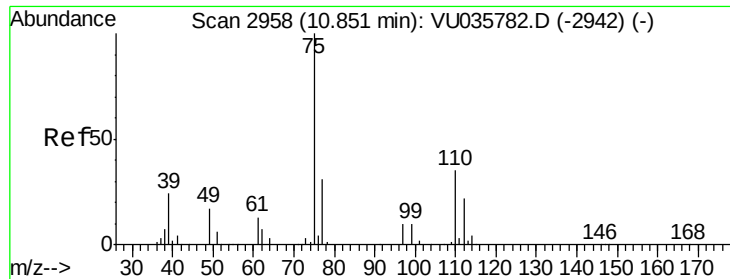


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.311 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

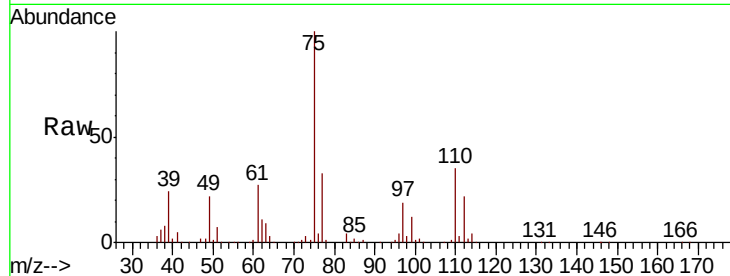
ClientSampled :

Tot Ion: 75 Resp: 337773

Ion Ratio Lower Upper

75 100

77 31.9 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035782.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU035782.D (-2942) (-)

10.85

200000

150000

100000

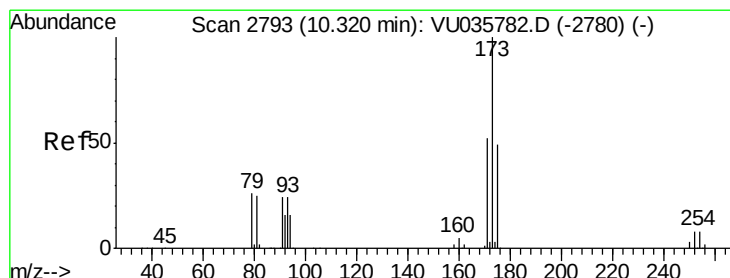
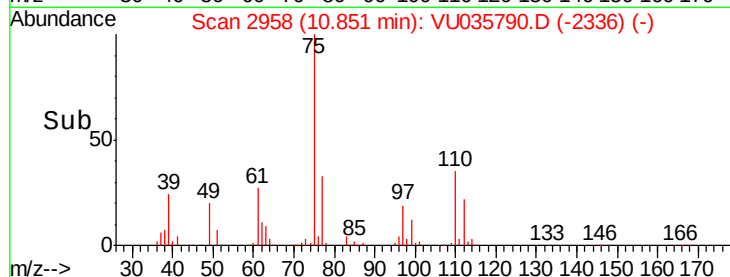
50000

0

10.80

10.90

Time-->



#61

Bromoform

Concen: 40.051 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

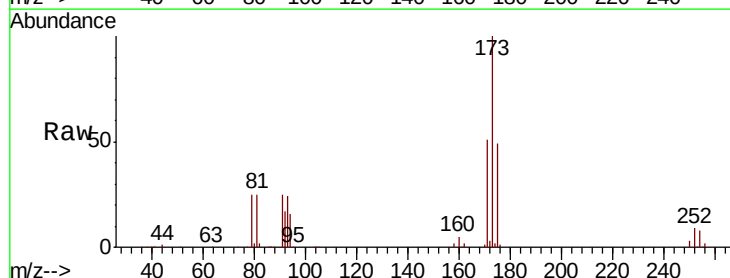
Tgt Ion:173 Resp: 196149

Ion Ratio Lower Upper

173 100

175 48.2 39.4 59.0

254 8.0 8.1 12.1#



Abundance Ion 173.00 (172.70 to 173.70): VU035782.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU035782.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU035782.D (-2780) (-)

150000

100000

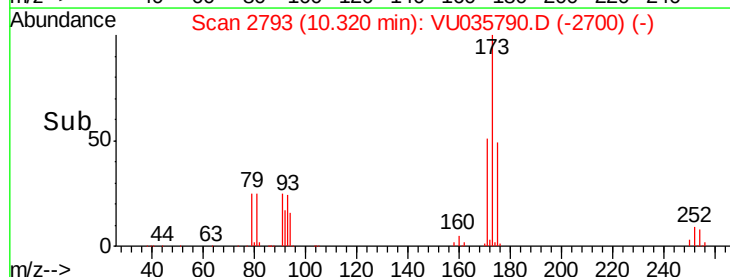
50000

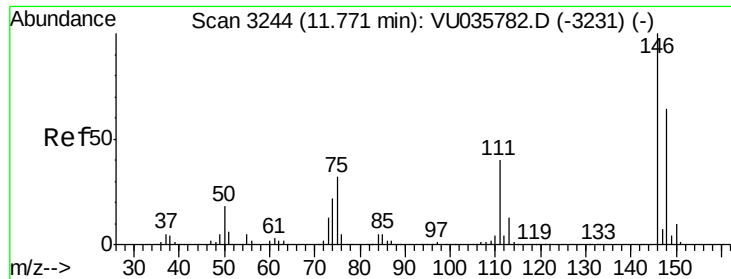
0

10.30

10.40

Time-->





#62

1,3-Dichlorobenzene

Concen: 43.213 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

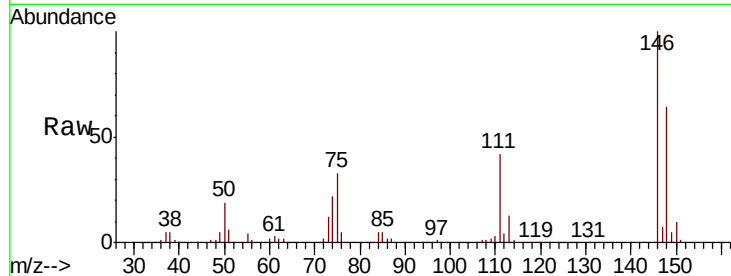
Tot Ion:146 Resp: 437624

Ion Ratio Lower Upper

146 100

111 42.1 27.8 51.6

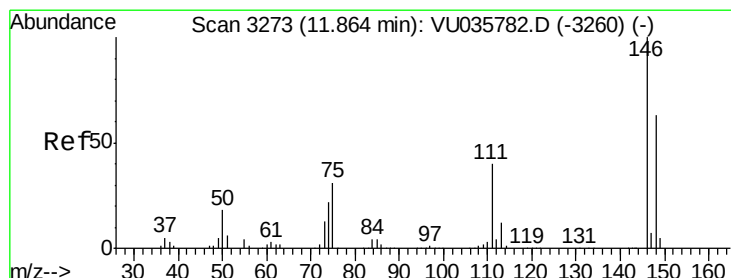
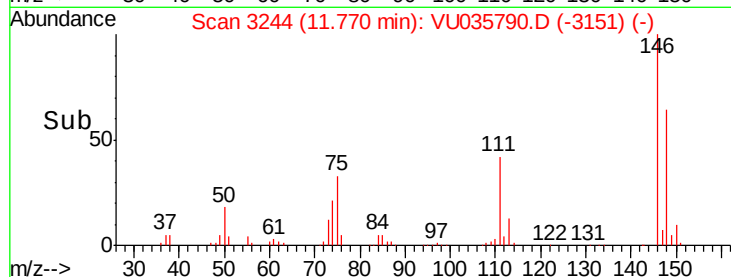
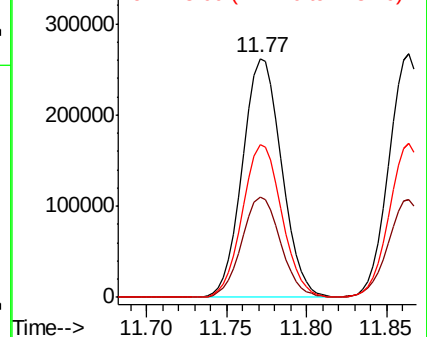
148 63.7 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 42.820 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

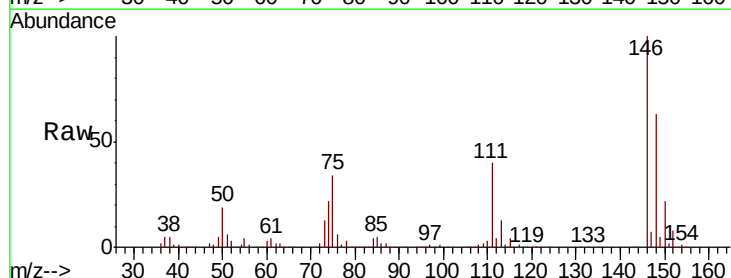
Tgt Ion:146 Resp: 440539

Ion Ratio Lower Upper

146 100

111 40.3 26.5 49.1

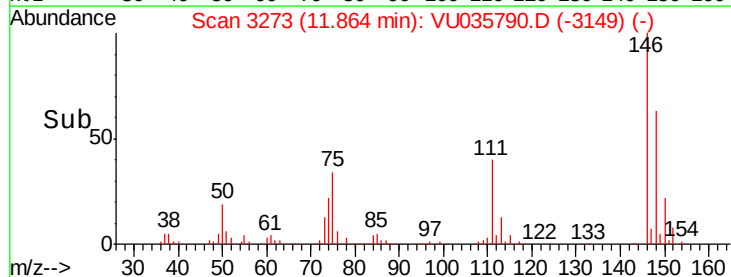
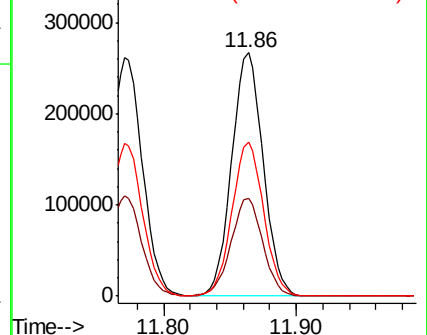
148 63.1 44.4 82.5

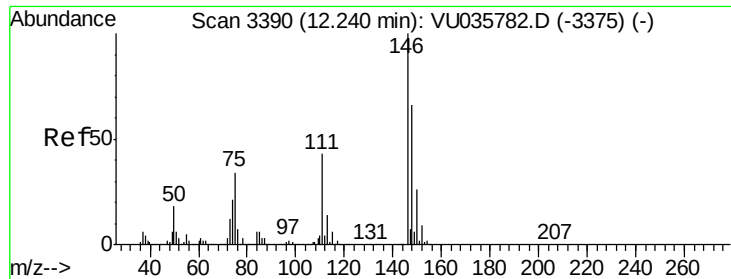


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

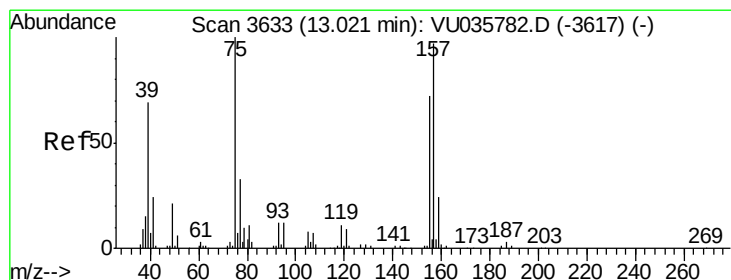
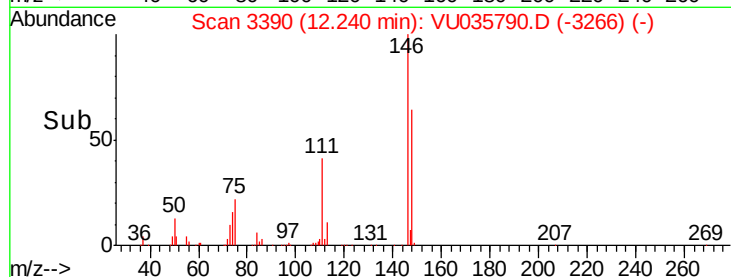
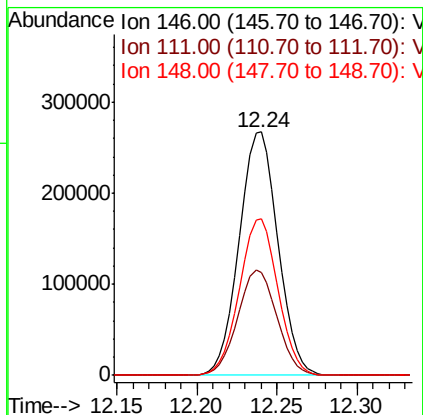
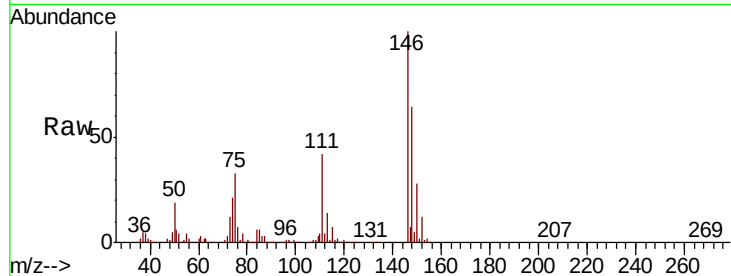




#65
 1,2-Dichlorobenzene
 Concen: 42.702 ug/L
 RT: 12.24 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

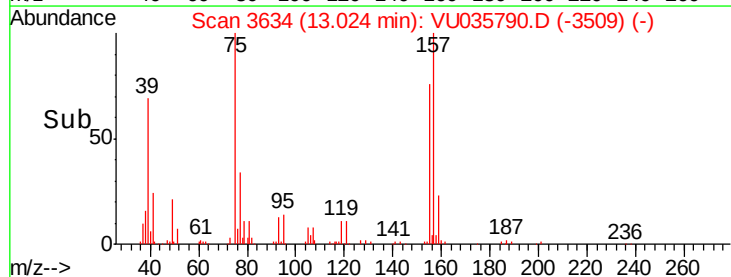
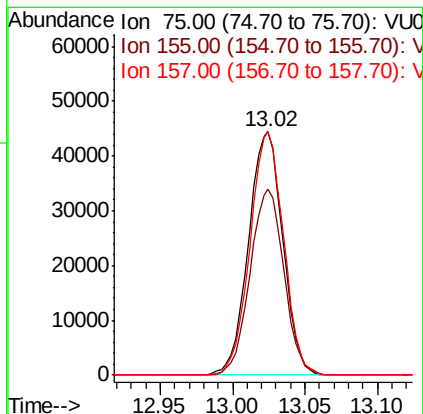
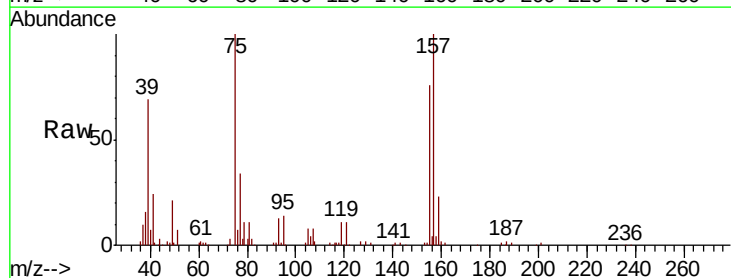
Instrument :
 MSVOA_U
 ClientSampleId :

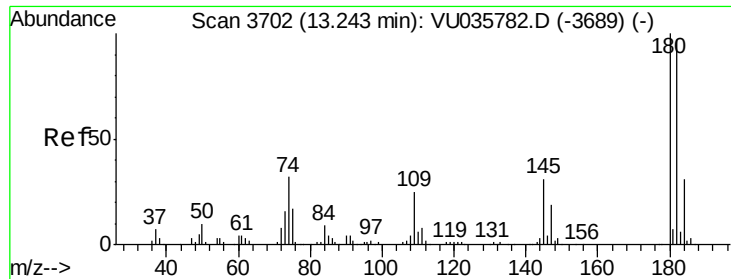
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	32.4	48.6
148	64.4	51.8	77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.698 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. 0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.5	72.2	108.4
157	100.2	92.1	138.1

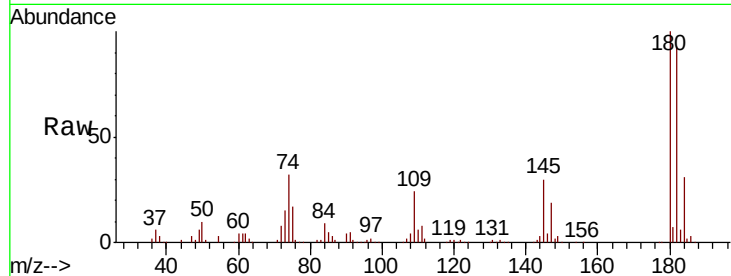




#67
 1,3,5-Trichlorobenzene
 Concen: 40.291 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.6	77.0	115.4
184	29.8	24.6	36.8
145	29.6	21.7	32.5



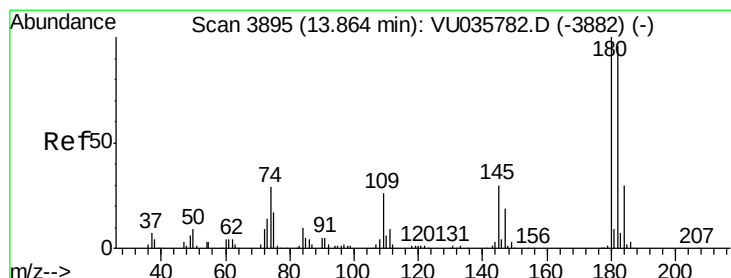
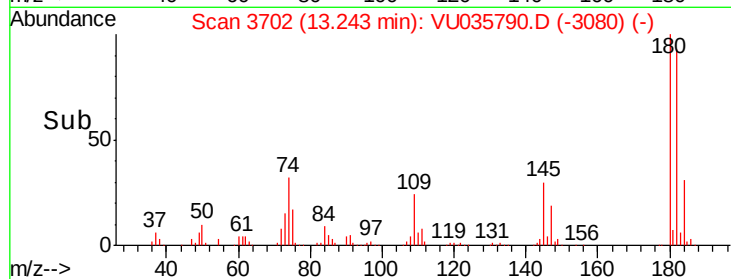
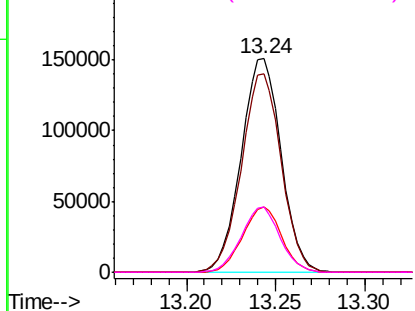
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

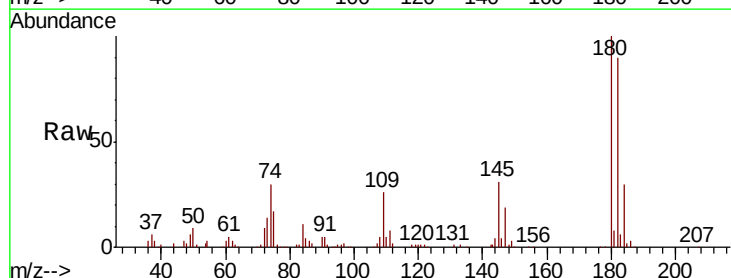
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 33.816 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035790.D
 Acq: 20 Nov 2019 15:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.6	76.6	115.0
145	30.8	21.9	32.9

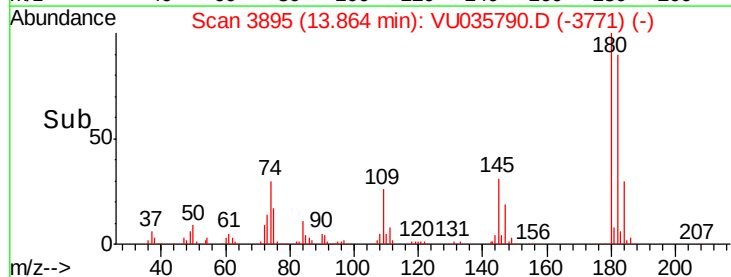
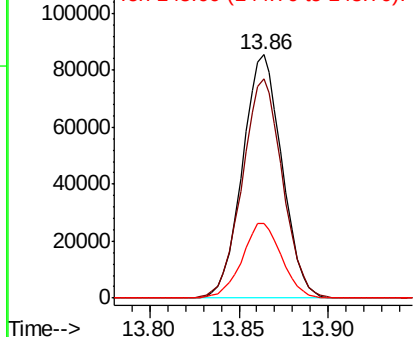


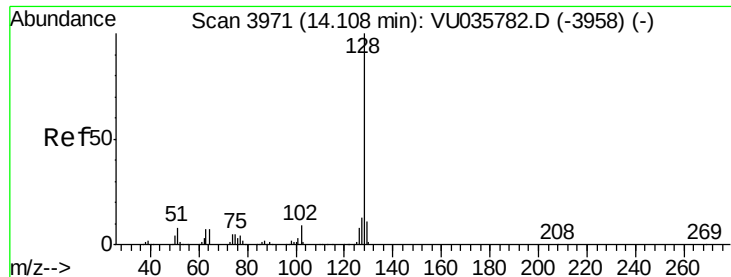
Abundance

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: 31.527 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

Instrument :

MSVOA_U

ClientSampled :

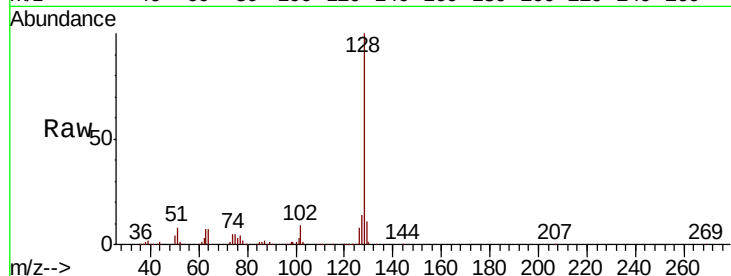
Tot Ion:128 Resp: 316934

Ion Ratio Lower Upper

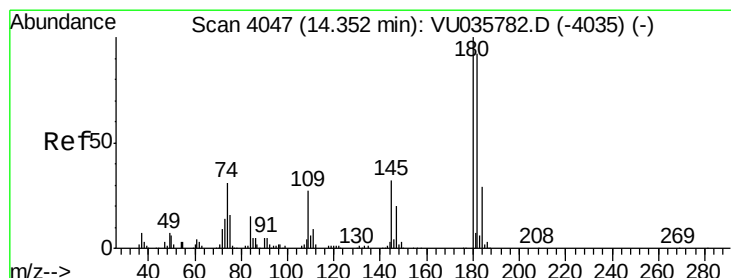
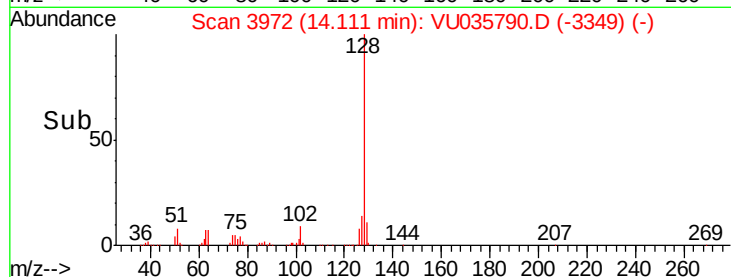
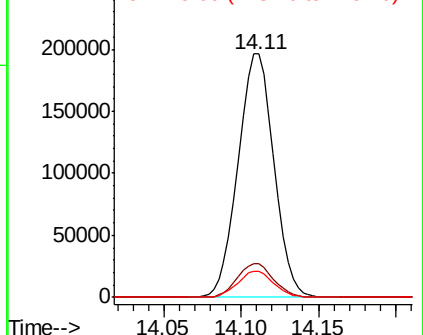
128 100

127 14.0 10.7 16.1

129 10.8 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: 33.417 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035790.D

Acq: 20 Nov 2019 15:35

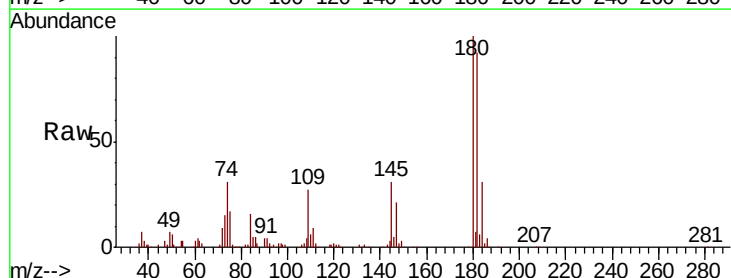
Tgt Ion:180 Resp: 141114

Ion Ratio Lower Upper

180 100

182 93.9 77.6 116.4

145 31.9 23.4 35.0



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

