

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031220\
 Data File : VU037184.D
 Acq On : 12 Mar 2020 12:40
 Operator : JC/MD
 Sample : VSTD00533
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 13 06:55:09 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	455138	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	441477	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	200616	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	16986	4.82	ug/L	0.00
7) Chloroethane-d5	1.93	69	14025	4.94	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	31495	4.87	ug/L	0.00
21) 2-Butanone-d5	4.67	46	23243	8.34	ug/L	0.00
24) Chloroform-d	5.11	84	32345	4.78	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	23838	4.81	ug/L	0.00
32) Benzene-d6	5.76	84	60184	4.95	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	19720	4.96	ug/L	0.00
41) Toluene-d8	7.92	98	54570	4.70	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	10007	4.62	ug/L	0.00
47) 2-Hexanone-d5	8.66	63	16190	7.86	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	29199	4.74	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	21890	5.26	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	23320	5.014 ug/L	97
3) Chloromethane	1.54	50	18840	4.953 ug/L	96
5) Vinyl chloride	1.62	62	19877	4.768 ug/L	92
6) Bromomethane	1.87	94	6218	3.886 ug/L	95
8) Chloroethane	1.95	64	12761	5.225 ug/L	92
9) Trichlorofluoromethane	2.16	101	31437	4.939 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	14467	4.867 ug/L	90
12) 1,1-Dichloroethene	2.61	96	13435	5.002 ug/L	82
13) Acetone	2.65	43	25184	9.522 ug/L	95
14) Carbon disulfide	2.82	76	38707	5.083 ug/L	98
15) Methyl Acetate	2.98	43	18732	4.503 ug/L	99
16) Methylene chloride	3.08	84	17461	5.208 ug/L	96
17) trans-1,2-Dichloroethene	3.39	96	13783	4.898 ug/L	95
18) Methyl tert-butyl Ether	3.40	73	50492	4.646 ug/L	97
19) 1,1-Dichloroethane	3.91	63	30537	4.849 ug/L	97
20) cis-1,2-Dichloroethene	4.71	96	16429	4.827 ug/L	98
22) 2-Butanone	4.75	43	28175	8.423 ug/L	98
23) Bromochloromethane	5.02	128	8428	4.910 ug/L	92
25) Chloroform	5.13	83	34852	5.118 ug/L	93
27) 1,2-Dichloroethane	5.83	62	29476	4.858 ug/L	# 92
29) Cyclohexane	5.43	56	24672	4.727 ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	29012	4.951 ug/L	99
31) Carbon tetrachloride	5.56	117	24921	4.813 ug/L	98
33) Benzene	5.81	78	63303	4.865 ug/L	100
34) Trichloroethene	6.57	95	16942	5.010 ug/L	97
35) Methylcyclohexane	6.79	83	23825	4.654 ug/L	99
37) 1,2-Dichloropropane	6.82	63	18625	5.035 ug/L	100
38) Bromodichloromethane	7.14	83	25411	4.914 ug/L	95
39) cis-1,3-Dichloropropene	7.64	75	25554	4.456 ug/L	97
40) 4-Methyl-2-pentanone	7.82	43	50606	8.405 ug/L	98

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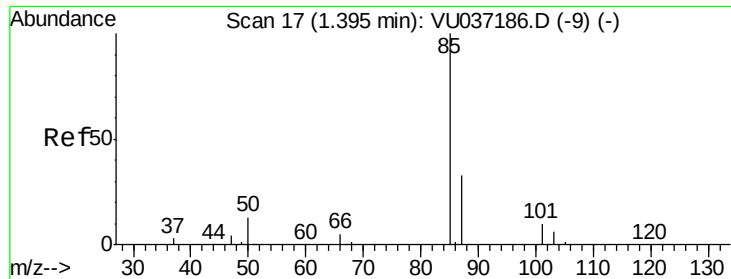
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 13 06:55:09 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)

42) Toluene	8.00	91	68298	4.806	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	24274	4.483	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	16804	4.989	ug/L	94
46) Tetrachloroethene	8.58	164	12063	4.802	ug/L	96
48) 2-Hexanone	8.71	43	37562	7.916	ug/L #	96
49) Dibromochloromethane	8.83	129	18139	4.578	ug/L	100
50) 1,2-Dibromoethane	8.95	107	16940	4.661	ug/L #	96
51) Chlorobenzene	9.47	112	43260	4.841	ug/L	96
52) Ethylbenzene	9.59	91	75648	4.598	ug/L	99
53) m,p-Xylene	9.72	106	25527	4.386	ug/L	93
54) o-xylene	10.12	106	25499	4.435	ug/L	97
55) Styrene	10.13	104	42492	4.358	ug/L	95
56) Isopropylbenzene	10.50	105	70483	4.410	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	27407	4.458	ug/L	96
59) 1,2,3-Trichloropropane	10.84	75	22928	4.459	ug/L	98
61) Bromoform	10.31	173	13703	4.890	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	30536	4.802	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	31503	4.902	ug/L	94
65) 1,2-Dichlorobenzene	12.23	146	32300	4.973	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	6456	4.509	ug/L	94
67) 1,3,5-Trichlorobenzene	13.25	180	21293	4.595	ug/L	96
68) 1,2,4-trichlorobenzene	13.87	180	13962	3.858	ug/L	94
69) Naphthalene	14.12	128	16865	3.073	ug/L #	91
70) 1,2,3-Trichlorobenzene	14.37	180	15332	4.038	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.014 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

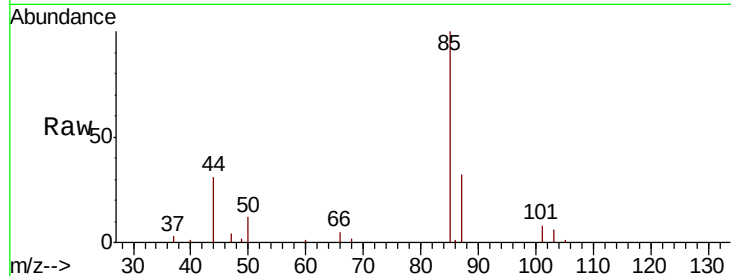
ClientSampled :

Tot Ion: 85 Resp: 23320

Ion Ratio Lower Upper

85 100

87 30.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU037186.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037186.D (-9) (-)

1.39

25000

20000

15000

10000

5000

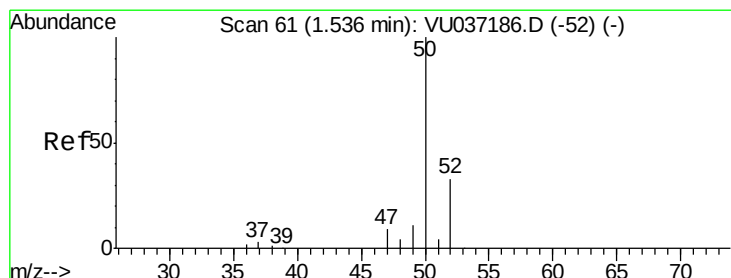
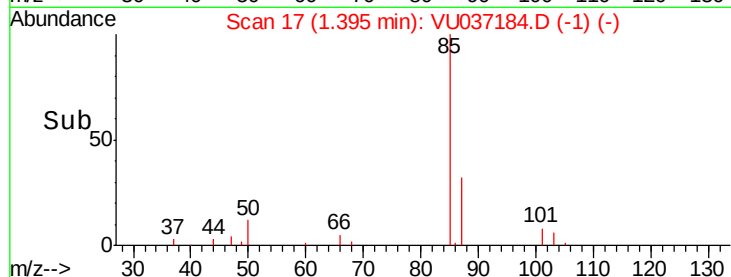
0

Time-->

1.35

1.40

1.45



#3

Chloromethane

Concen: 4.953 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037184.D

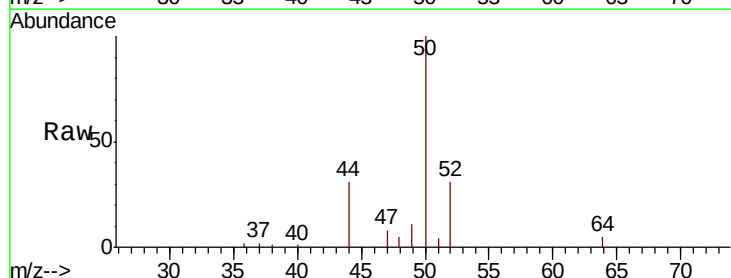
Acq: 12 Mar 2020 12:40

Tgt Ion: 50 Resp: 18840

Ion Ratio Lower Upper

50 100

52 30.9 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU037186.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU037186.D (-52) (-)

1.54

20000

15000

10000

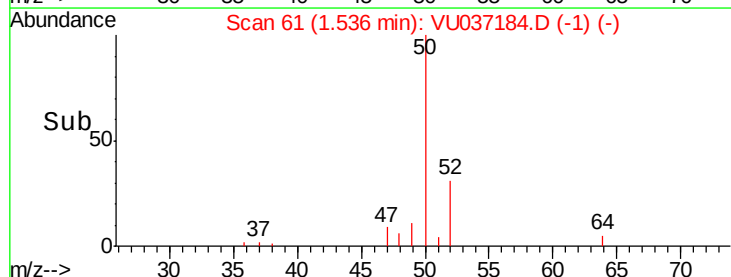
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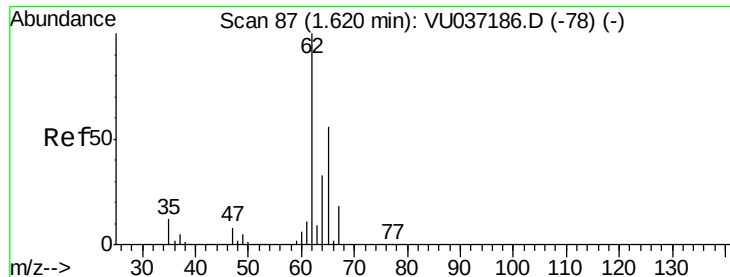
0

Time-->

1.50

1.55





#5

Vinyl chloride

Concen: 4.768 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

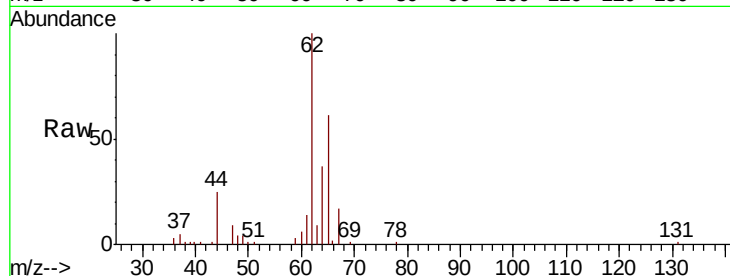
ClientSampleId :

Tot Ion: 62 Resp: 19877

Ion Ratio Lower Upper

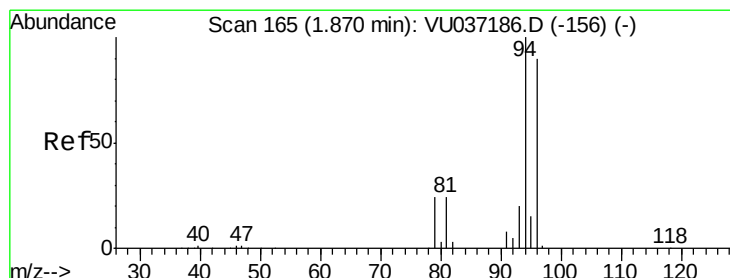
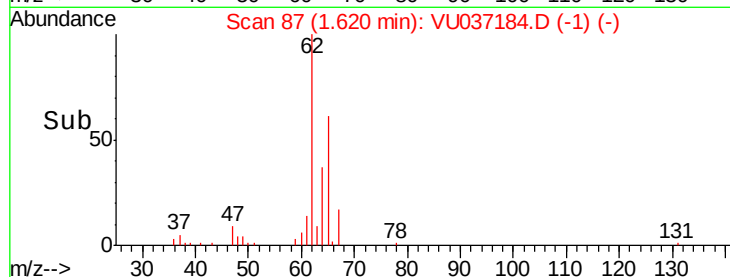
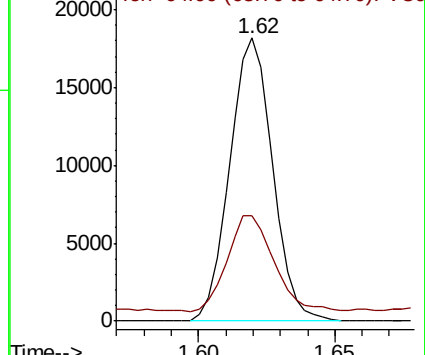
62 100

64 37.5 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 3.886 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037184.D

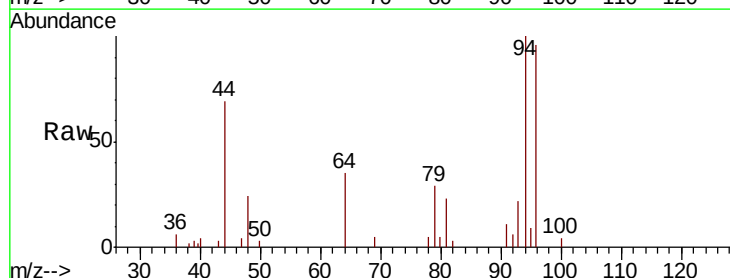
Acq: 12 Mar 2020 12:40

Tgt Ion: 94 Resp: 6218

Ion Ratio Lower Upper

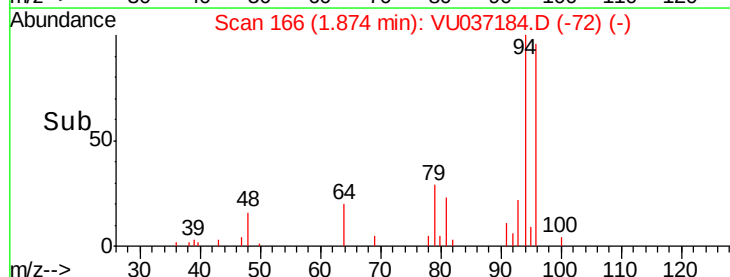
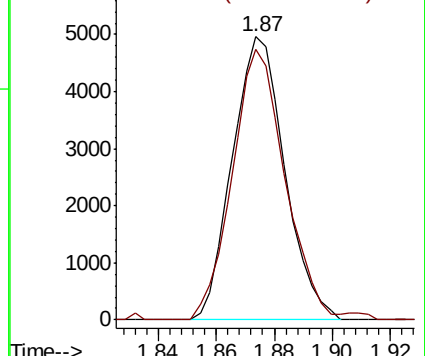
94 100

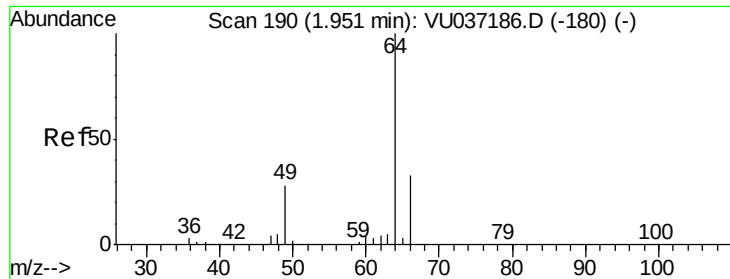
96 95.8 63.5 117.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

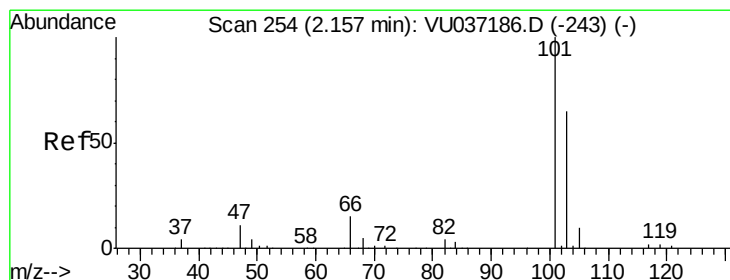
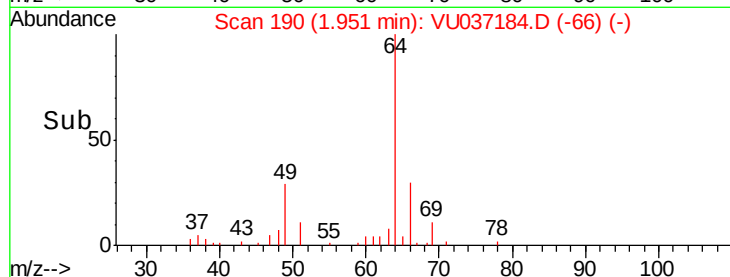
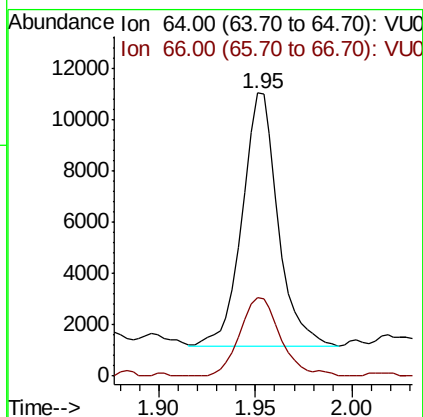
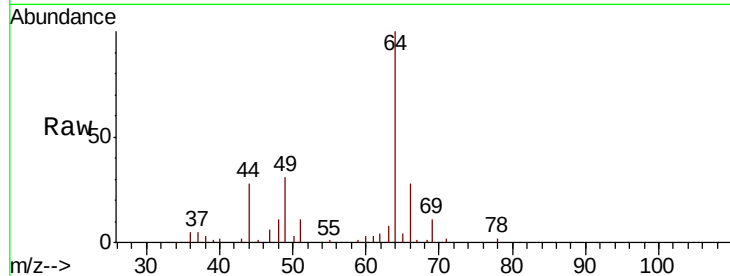




#8
Chloroethane
Concen: 5.225 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

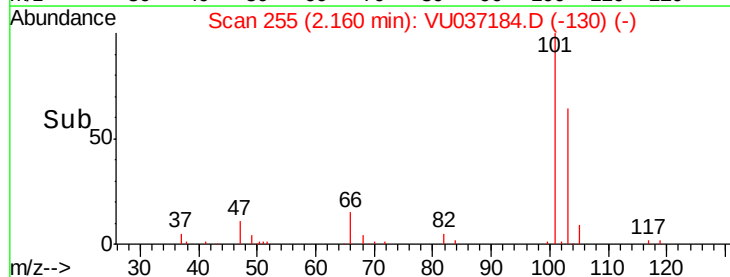
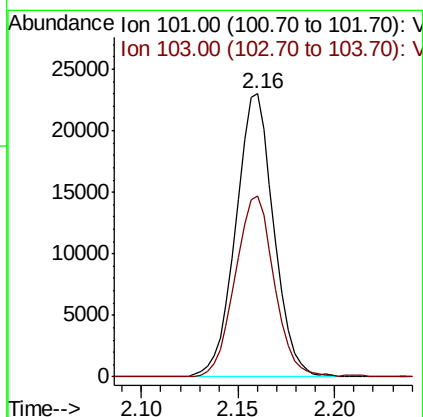
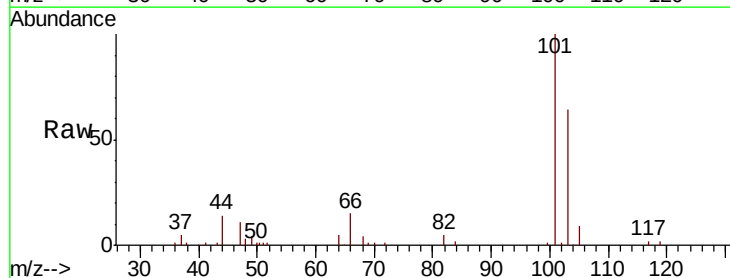
Instrument :
MSVOA_U
ClientSampleId :

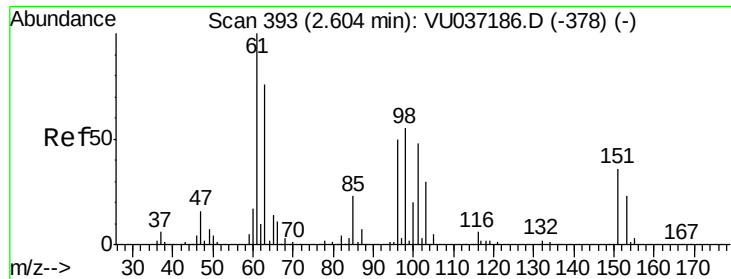
Tot Ion: 64 Resp: 12761
Ion Ratio Lower Upper
64 100
66 27.6 22.6 42.0



#9
Trichlorofluoromethane
Concen: 4.939 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Tgt Ion:101 Resp: 31437
Ion Ratio Lower Upper
101 100
103 65.6 51.1 76.7





#10

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

Concen: 4.867 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

ClientSampled :

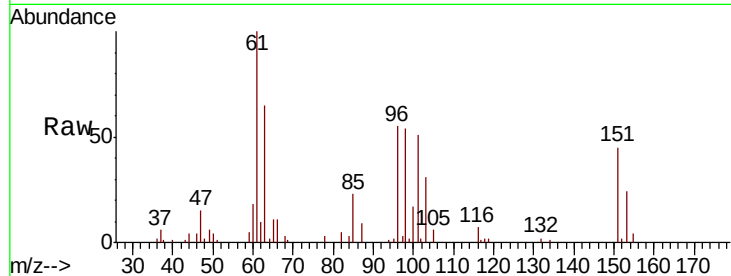
Tot Ion:101 Resp: 14467

Ion Ratio Lower Upper

101 100

85 48.6 37.8 56.6

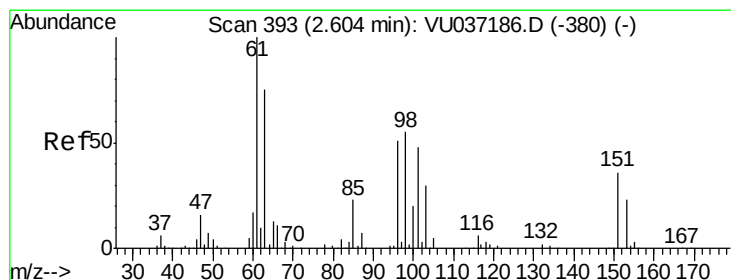
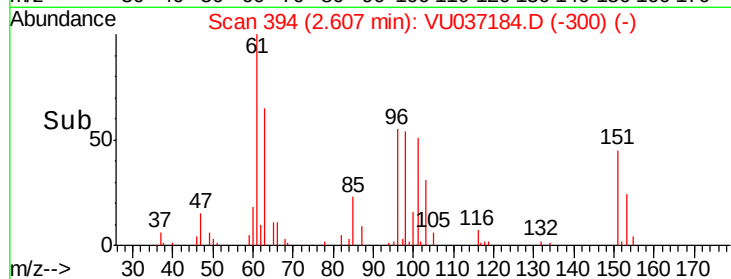
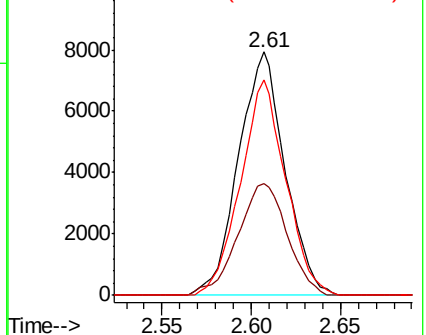
151 85.9 58.5 87.7



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: 5.002 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

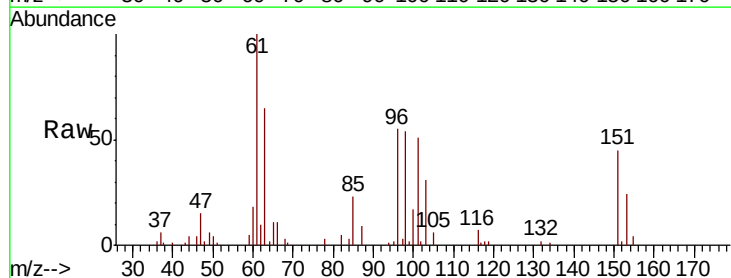
Tgt Ion: 96 Resp: 13435

Ion Ratio Lower Upper

96 100

61 180.7 138.8 257.8

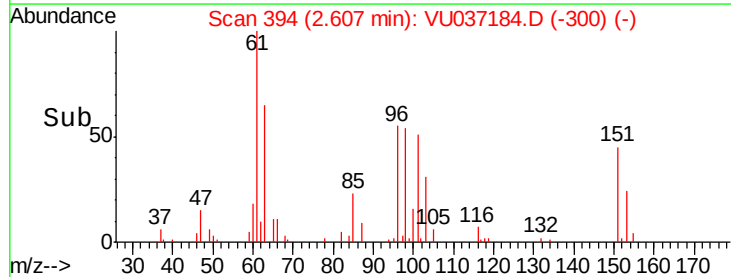
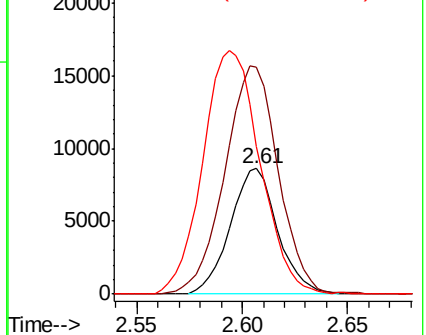
63 117.8 106.4 197.6

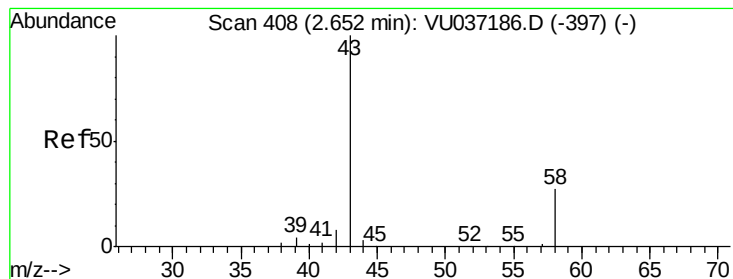


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 9.522 ug/L

RT: 2.65 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

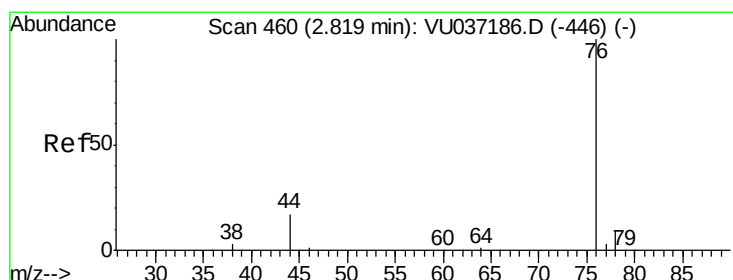
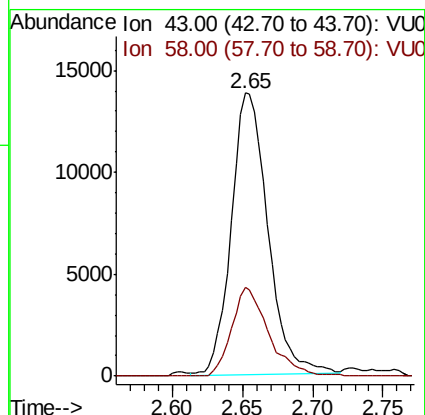
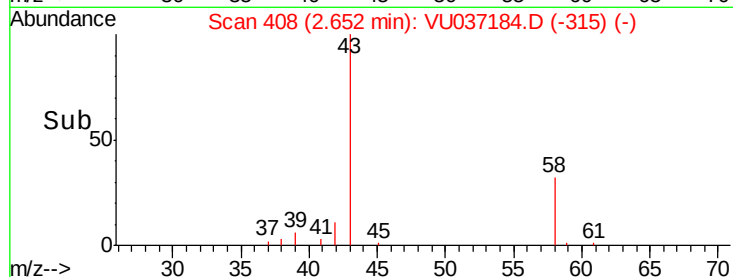
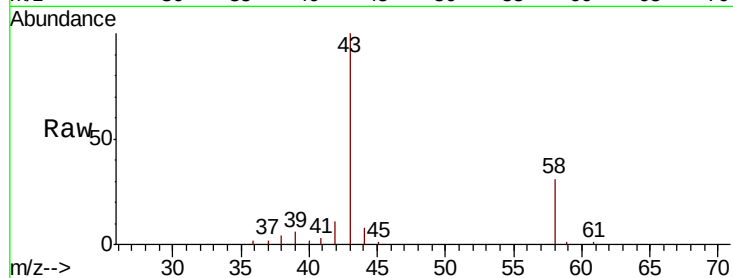
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 25184

Ion Ratio Lower Upper

43 100

58 31.3 0.0 57.2



#14

Carbon disulfide

Concen: 5.083 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037184.D

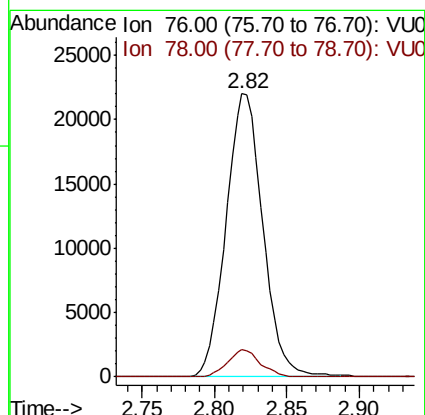
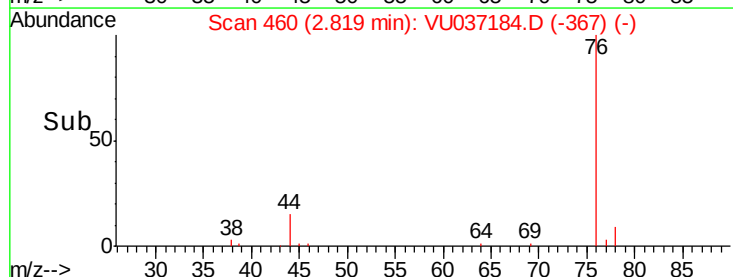
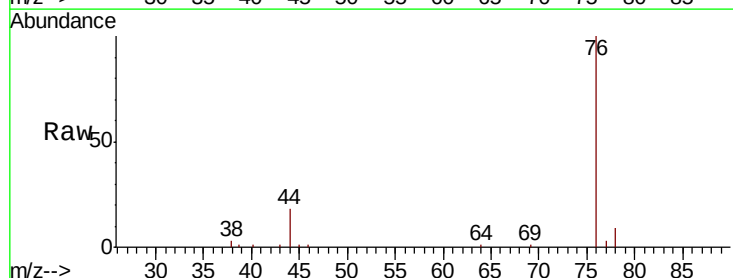
Acq: 12 Mar 2020 12:40

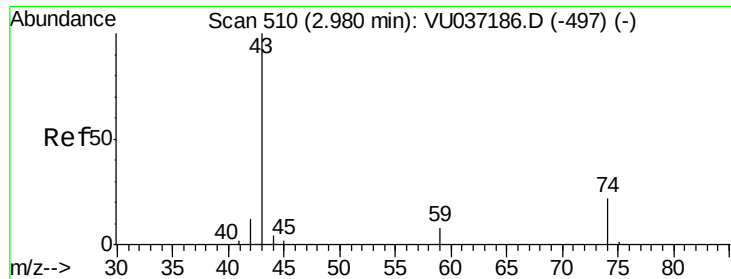
Tgt Ion: 76 Resp: 38707

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.6

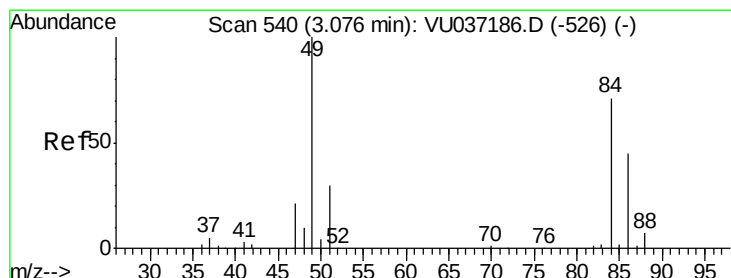
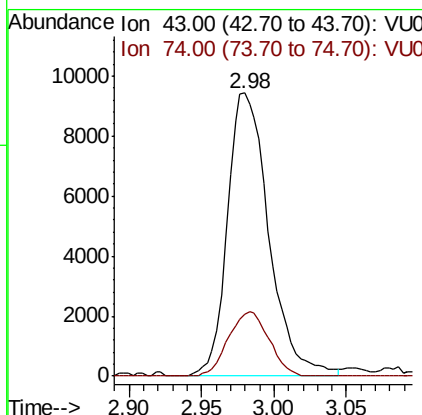
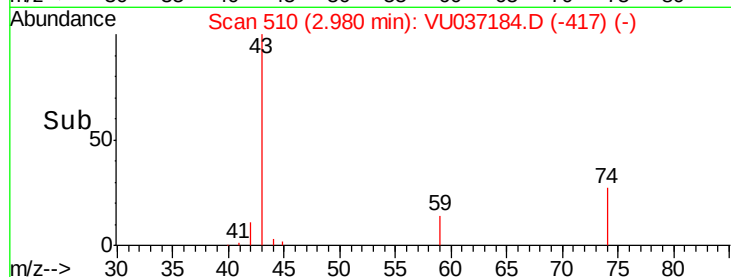
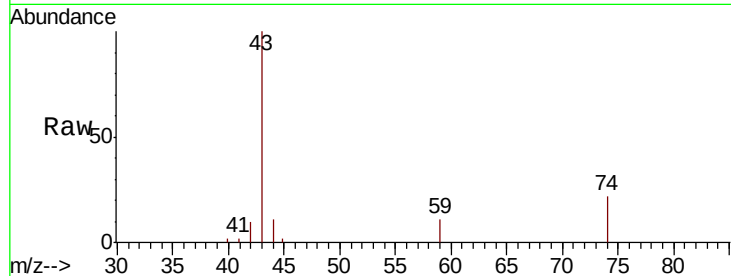




#15
Methvl Acetate
Concen: 4.503 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

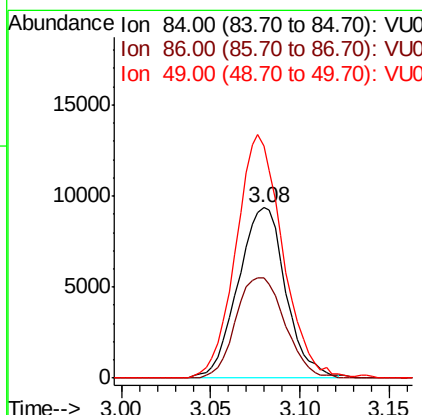
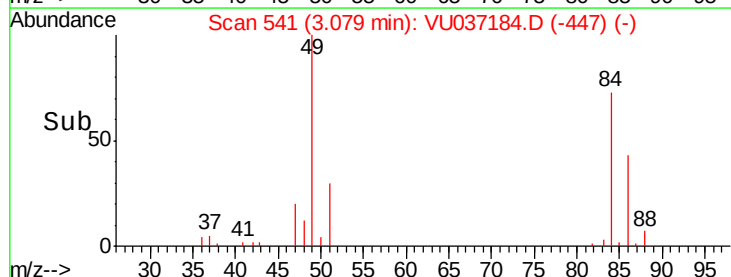
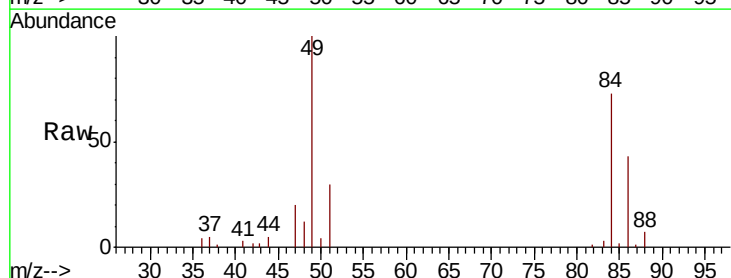
Instrument :
MSVOA_U
ClientSampled :

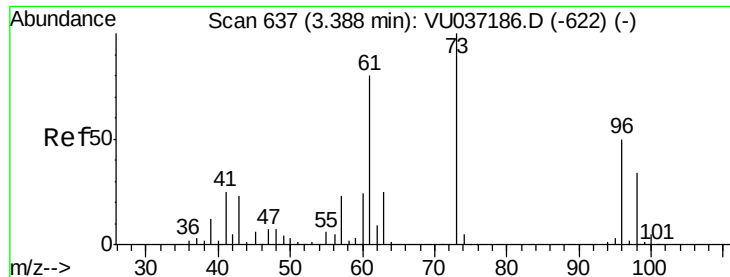
Tot Ion: 43 Resp: 18732
Ion Ratio Lower Upper
43 100
74 22.2 17.4 26.0



#16
Methylene chloride
Concen: 5.208 ug/L
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Tgt Ion: 84 Resp: 17461
Ion Ratio Lower Upper
84 100
86 58.6 44.0 81.6
49 136.2 98.6 183.2



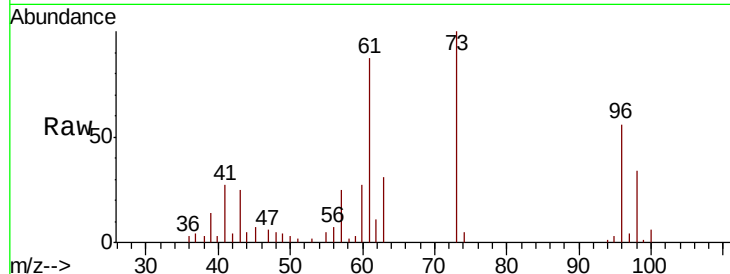


#17
 trans-1,2-Dichloroethene
 Concen: 4.898 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

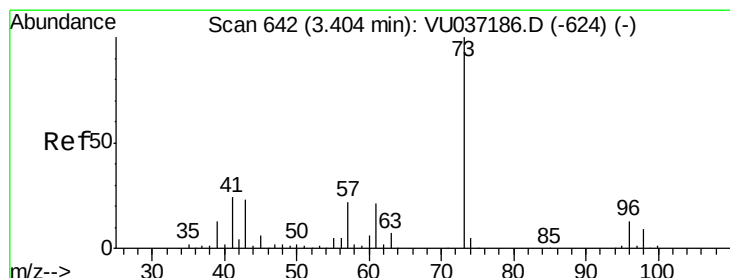
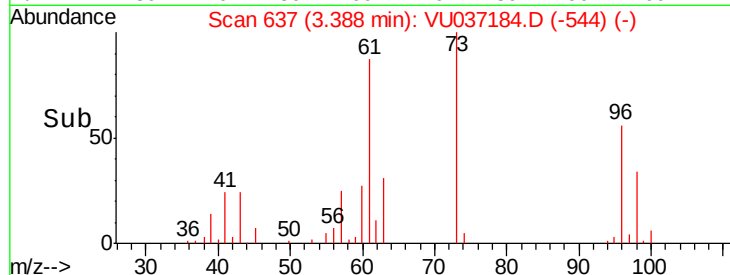
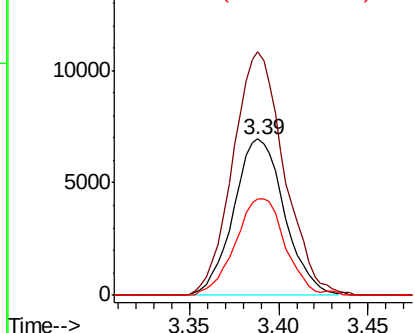
Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 13783

Ion	Ratio	Lower	Upper
96	100		
61	155.9	112.3	208.5
98	61.5	48.0	89.2



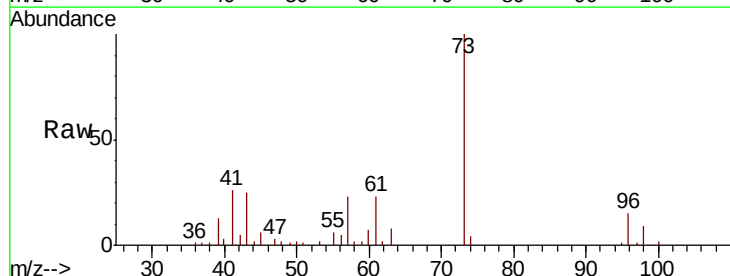
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0



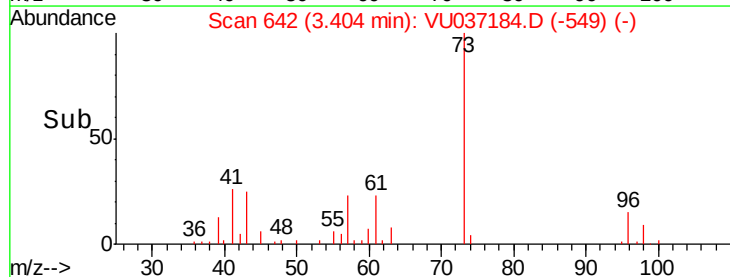
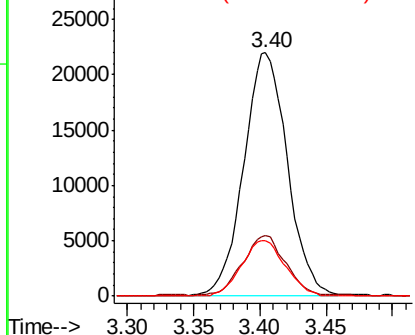
#18
 Methyl tert-butyl Ether
 Concen: 4.646 ug/L
 RT: 3.40 min Scan# 642
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

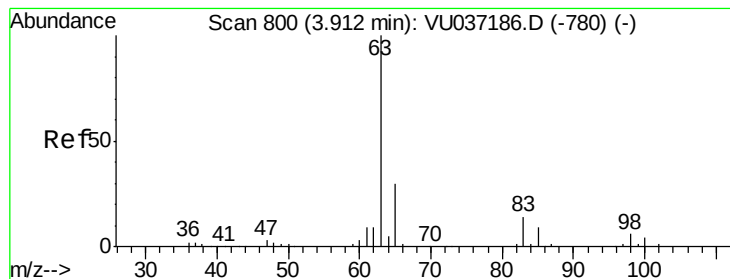
Tgt Ion: 73 Resp: 50492

Ion	Ratio	Lower	Upper
73	100		
43	24.9	18.5	27.7
57	22.9	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: 4.849 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :
MSVOA_U
ClientSampleId :

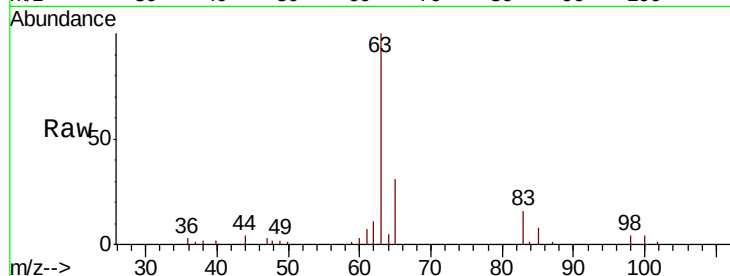
Tot Ion: 63 Resp: 30537

Ion Ratio Lower Upper

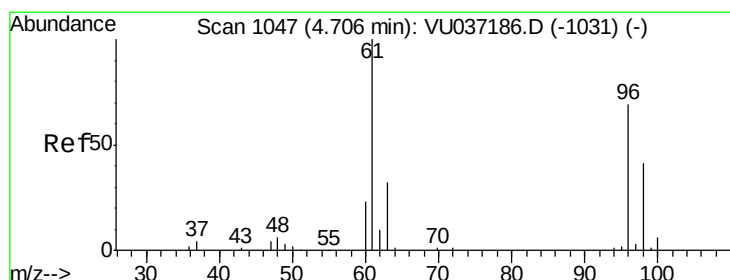
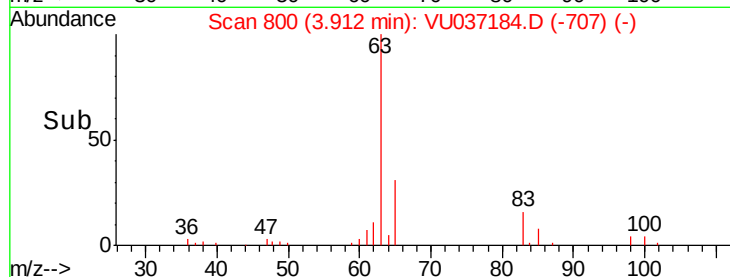
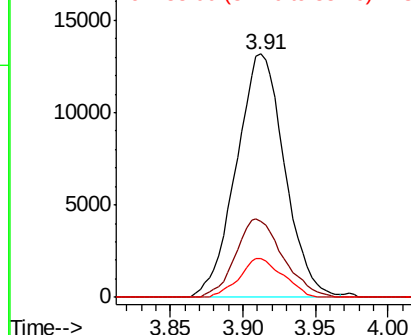
63 100

65 31.0 20.8 38.6

83 15.7 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 4.827 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

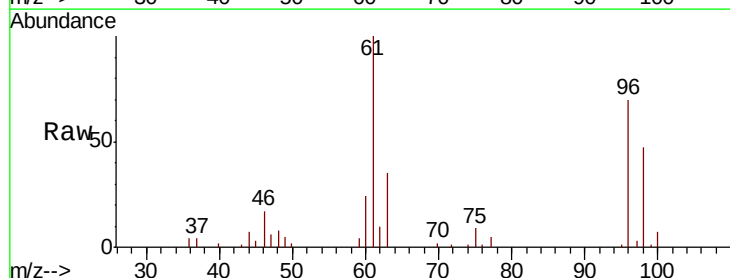
Tgt Ion: 96 Resp: 16429

Ion Ratio Lower Upper

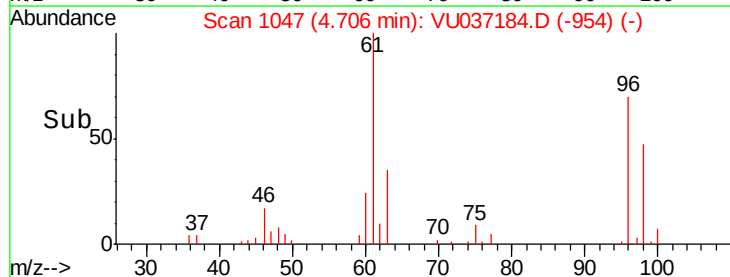
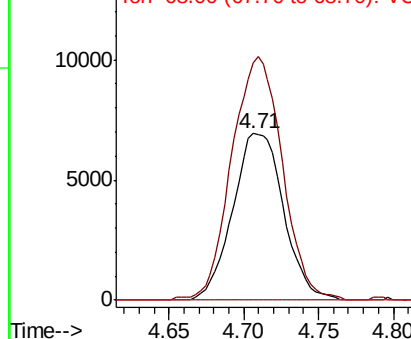
96 100

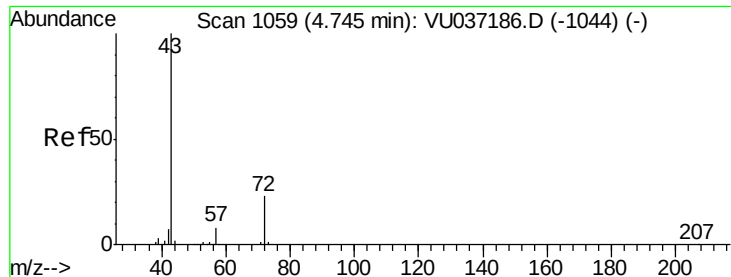
61 142.3 101.2 187.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 8.423 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

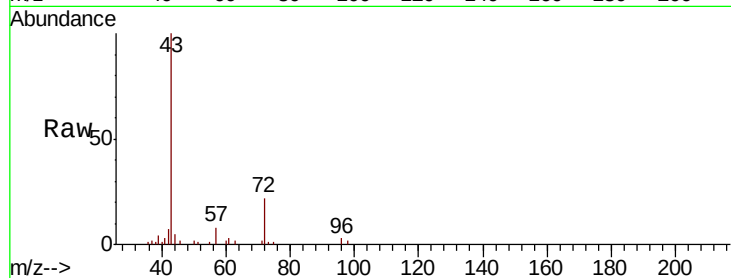
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 28175

Ion Ratio Lower Upper

43 100

72 23.6 12.3 36.9



Abundance Ion 43.00 (42.70 to 43.70): VU037184.D (-1044) (-)

Ion 72.00 (71.70 to 72.70): VU037184.D (-1044) (-)

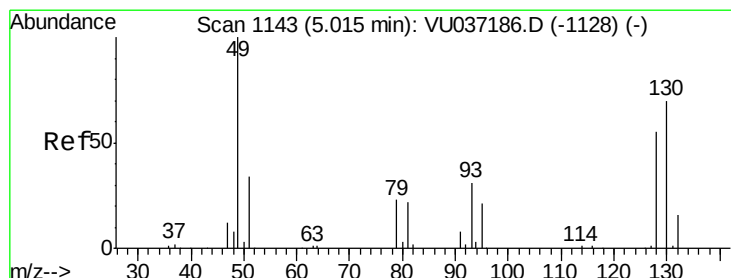
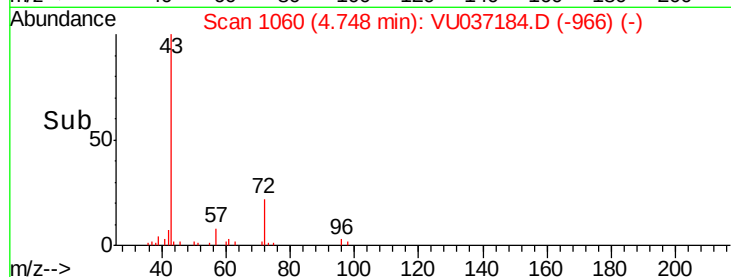
4.75

10000

5000

0

Time-->



#23

Bromochloromethane

Concen: 4.910 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Tgt Ion:128 Resp: 8428

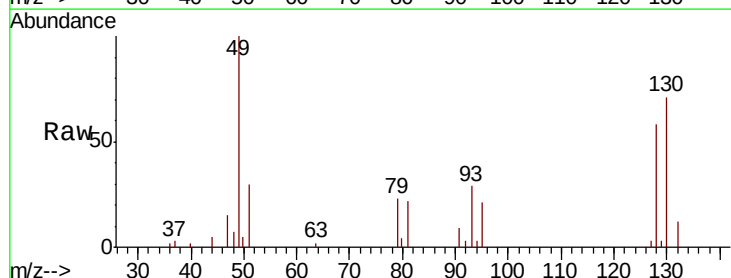
Ion Ratio Lower Upper

128 100

49 173.3 128.4 238.5

130 122.5 90.6 168.2

51 51.9 50.0 75.0



Abundance Ion 128.00 (127.70 to 128.70): VU037184.D (-1050) (-)

Ion 49.00 (48.70 to 49.70): VU037184.D (-1050) (-)

Ion 130.00 (129.70 to 130.70): VU037184.D (-1050) (-)

Ion 51.00 (50.70 to 51.70): VU037184.D (-1050) (-)

5.02

10000

8000

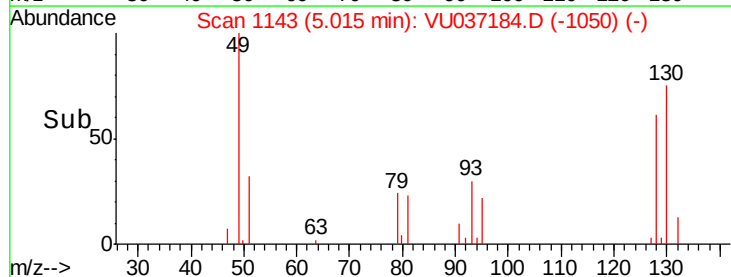
6000

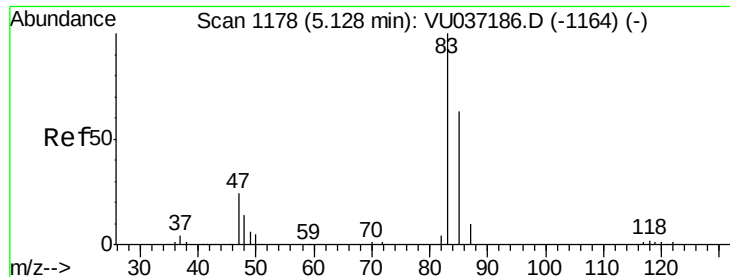
4000

2000

0

Time-->

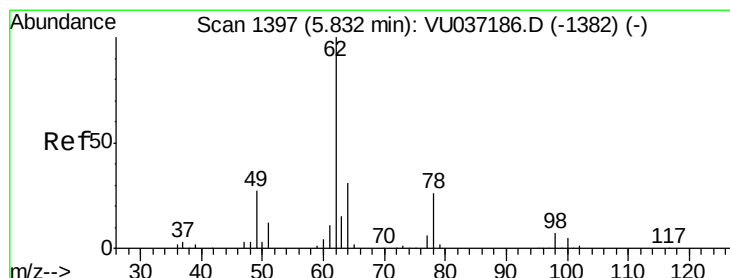
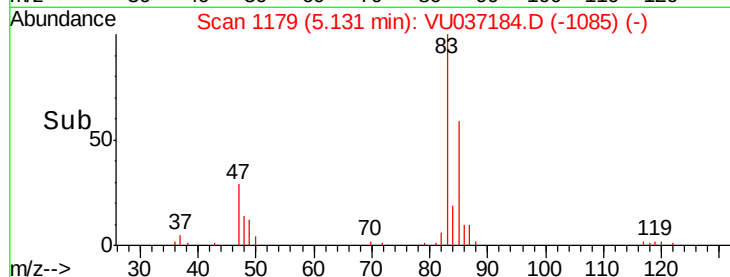
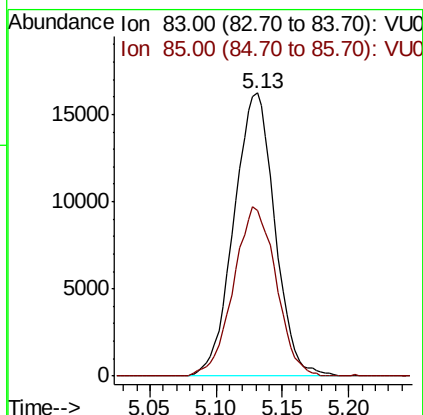
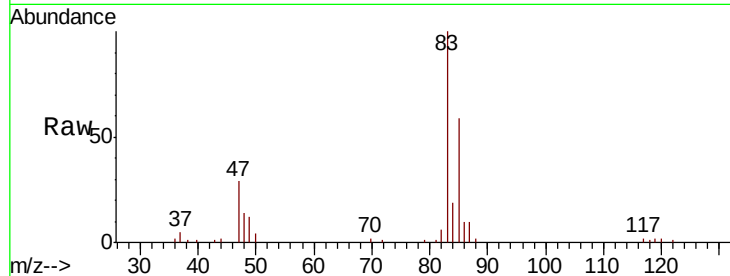




#25
Chloroform
Concen: 5.118 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

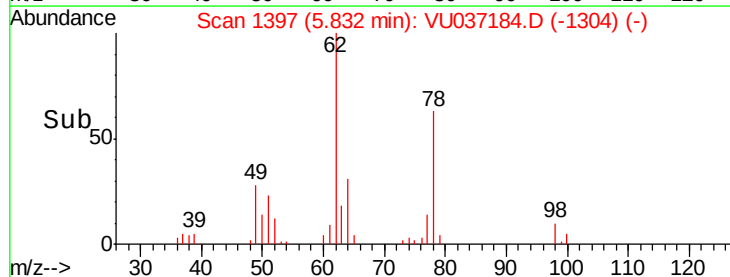
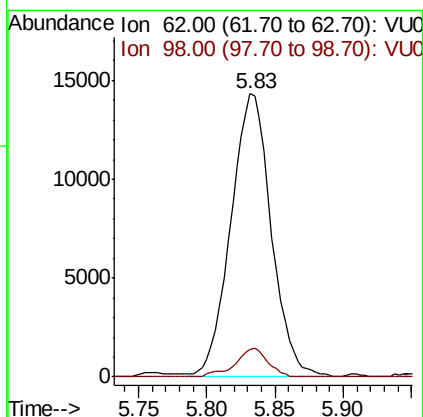
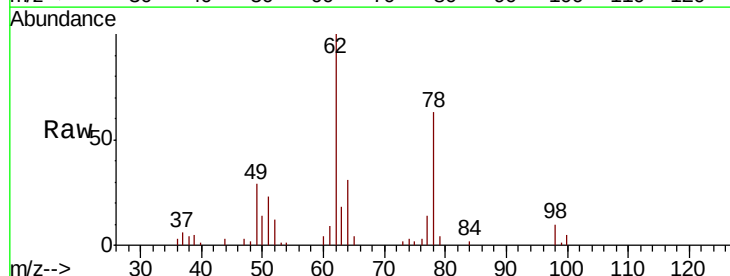
Instrument :
MSVOA_U
ClientSampleId :

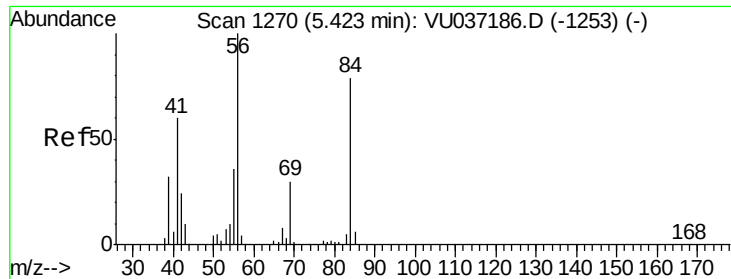
Tot Ion: 83 Resp: 34852
Ion Ratio Lower Upper
83 100
85 58.6 45.0 83.6



#27
1,2-Dichloroethane
Concen: 4.858 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Tgt Ion: 62 Resp: 29476
Ion Ratio Lower Upper
62 100
98 9.8 5.6 8.4#

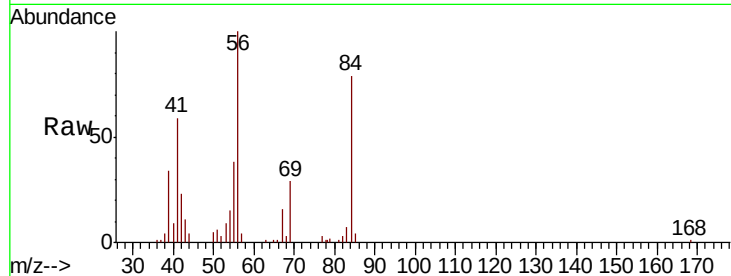




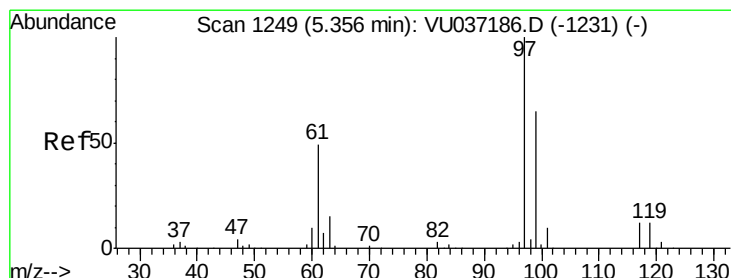
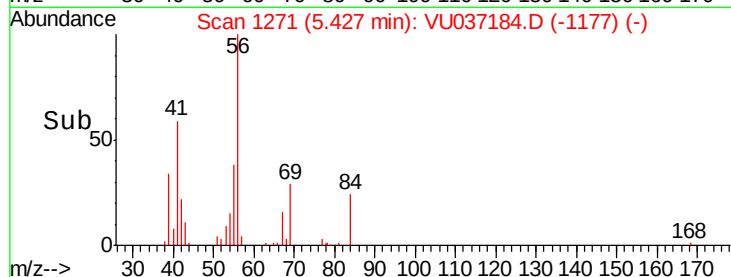
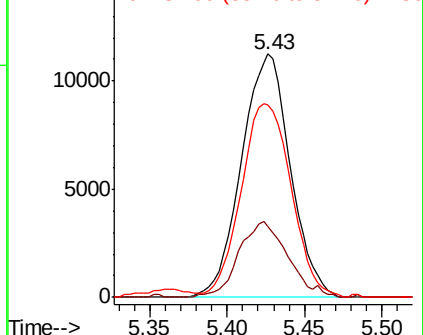
#29
Cyclohexane
Concen: 4.727 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 24672
Ion Ratio Lower Upper
56 100
69 30.2 23.9 35.9
84 81.7 64.0 96.0

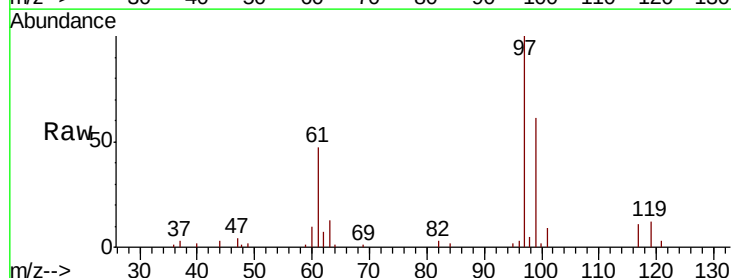


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

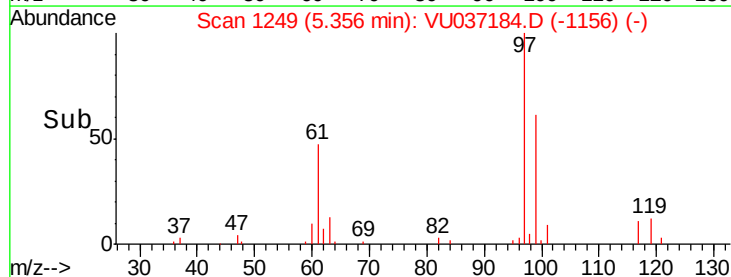
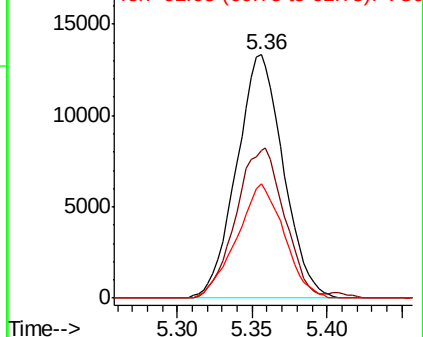


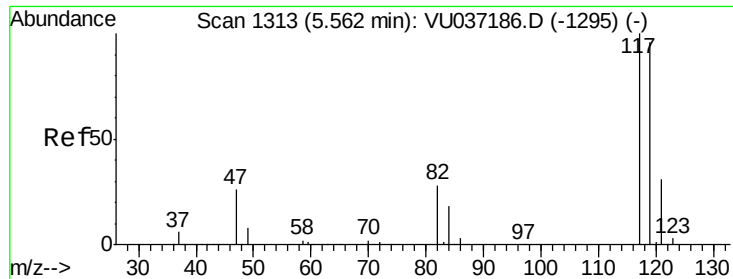
#30
1,1,1-Trichloroethane
Concen: 4.951 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Tgt Ion: 97 Resp: 29012
Ion Ratio Lower Upper
97 100
99 63.8 51.4 77.0
61 47.3 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

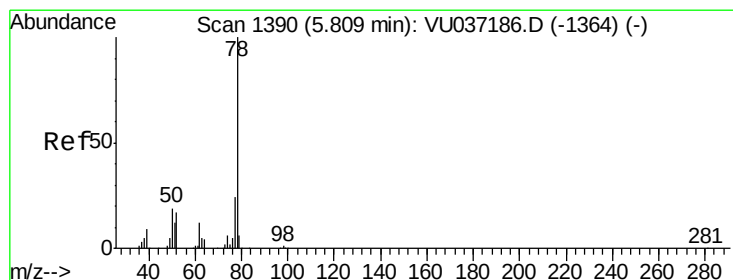
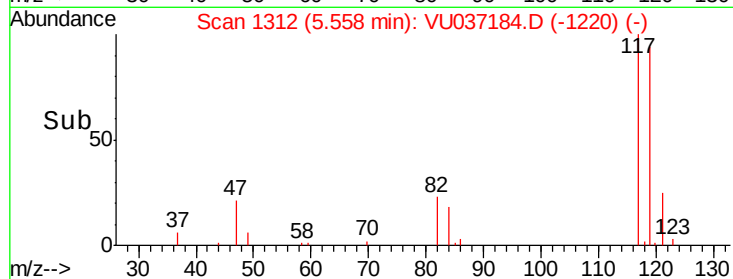
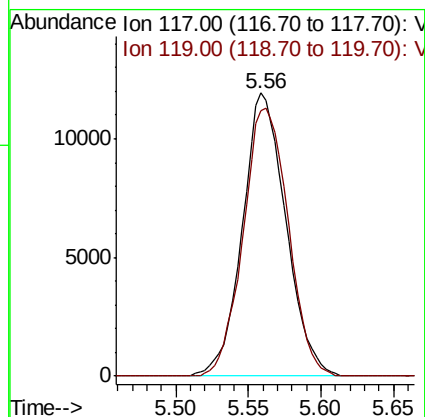
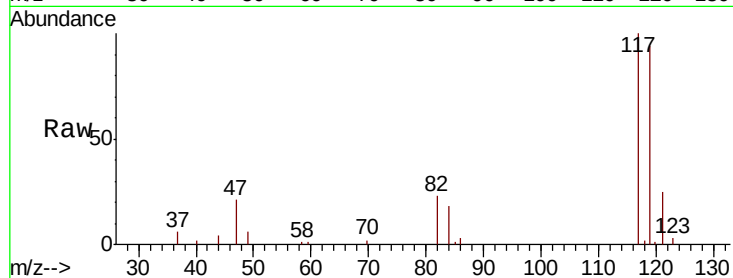




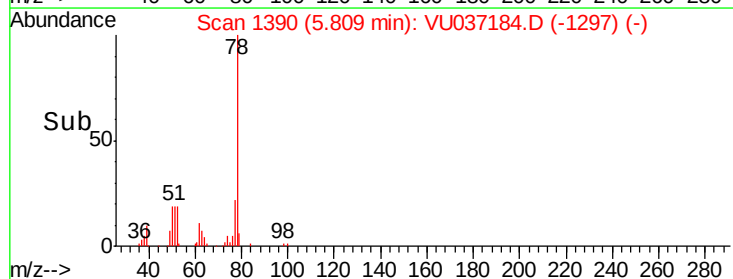
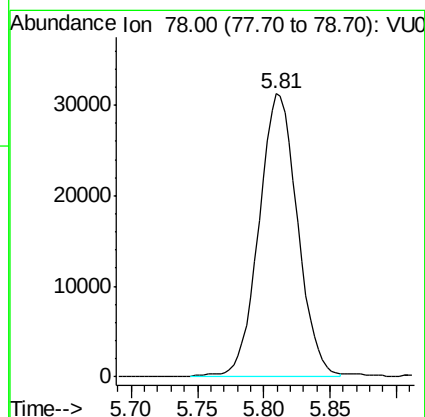
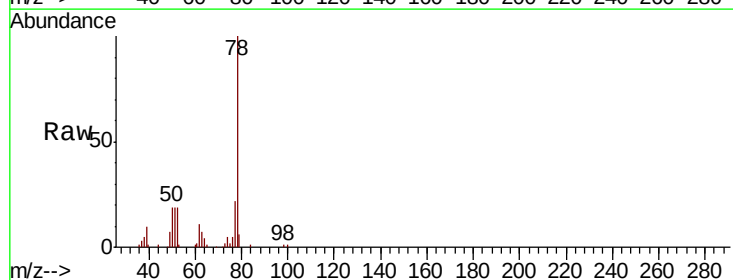
#31
Carbon tetrachloride
Concen: 4.813 ug/L
RT: 5.56 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

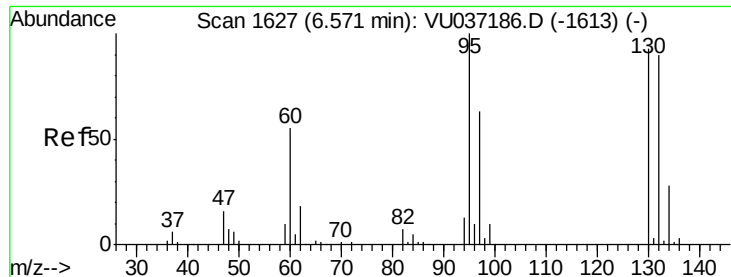
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 24921
Ion Ratio Lower Upper
117 100
119 97.8 76.8 115.2



#33
Benzene
Concen: 4.865 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40
Tgt Ion: 78 Resp: 63303





#34

Trichloroethene

Concen: 5.010 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 16942

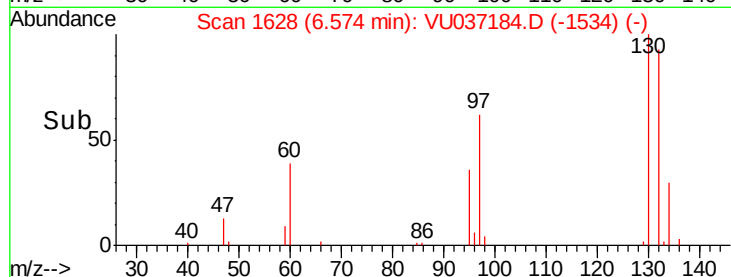
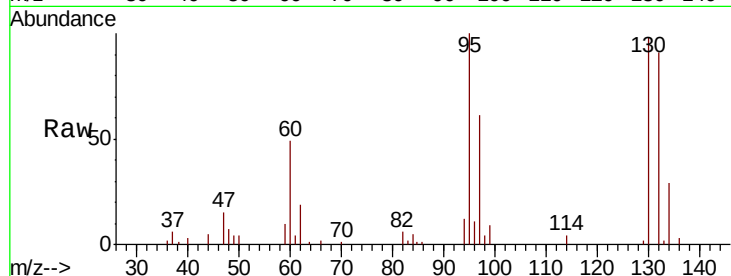
Ion Ratio Lower Upper

95 100

97 61.0 43.8 81.4

132 91.0 62.6 116.3

130 97.7 64.8 120.4

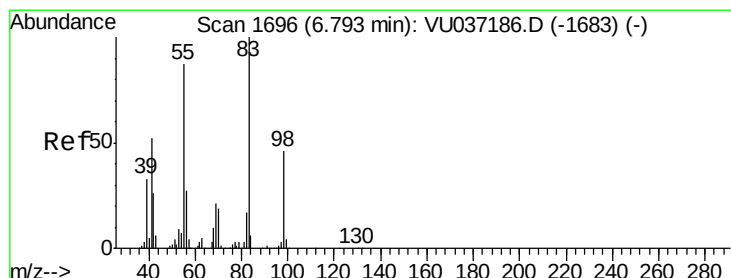
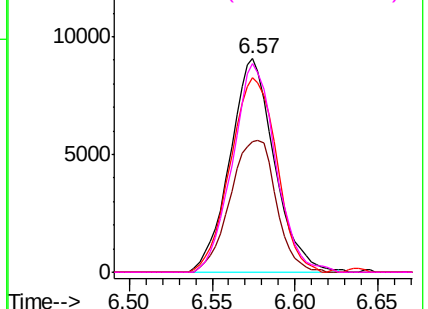


Abundance Ion 95.00 (94.70 to 95.70): VU037184.D (-1534) (-)

Ion 97.00 (96.70 to 97.70): VU037184.D (-1534) (-)

Ion 132.00 (131.70 to 132.70): VU037184.D (-1534) (-)

Ion 130.00 (129.70 to 130.70): VU037184.D (-1534) (-)



#35

Methylcyclohexane

Concen: 4.654 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

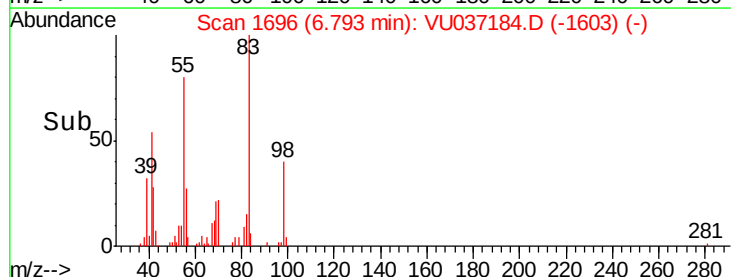
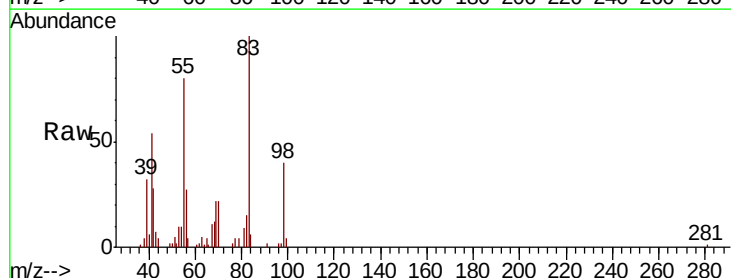
Tgt Ion: 83 Resp: 23825

Ion Ratio Lower Upper

83 100

55 86.0 68.2 102.2

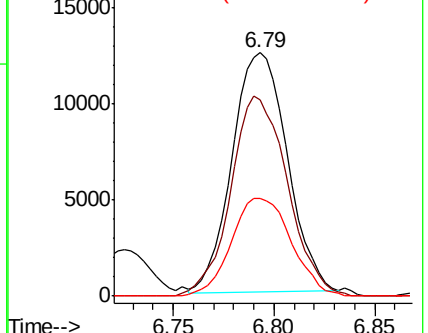
98 44.4 36.4 54.6

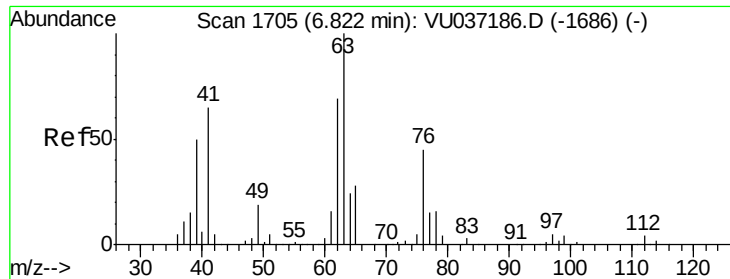


Abundance Ion 83.00 (82.70 to 83.70): VU037184.D (-1603) (-)

Ion 55.00 (54.70 to 55.70): VU037184.D (-1603) (-)

Ion 98.00 (97.70 to 98.70): VU037184.D (-1603) (-)

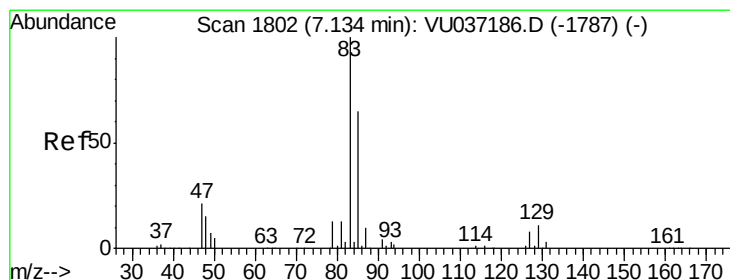
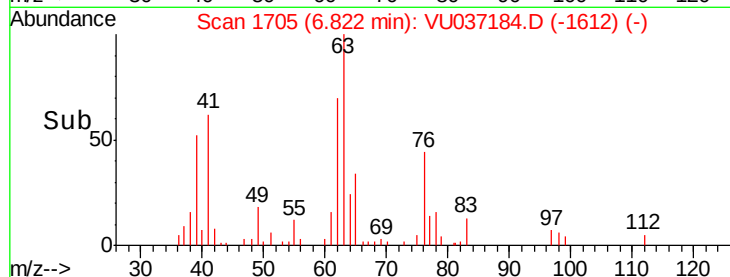
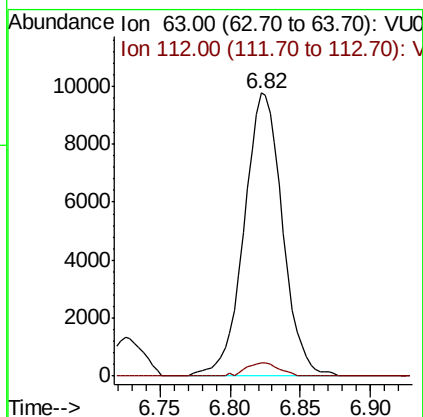
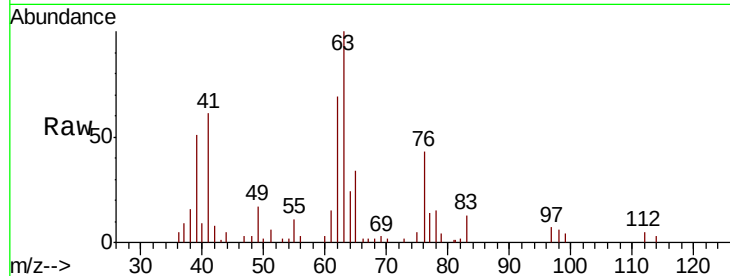




#37
 1,2-Dichloropropane
 Concen: 5.035 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

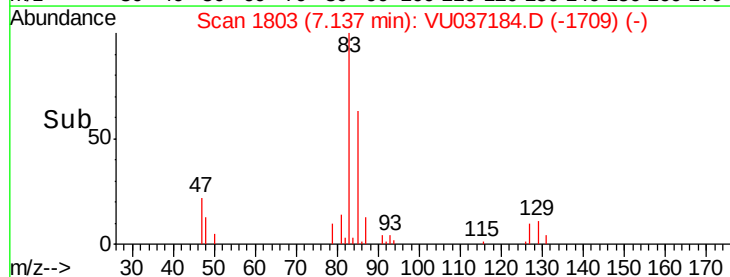
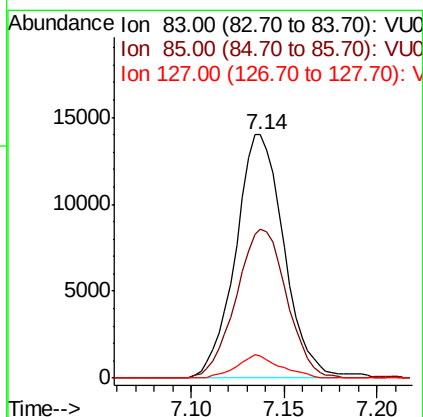
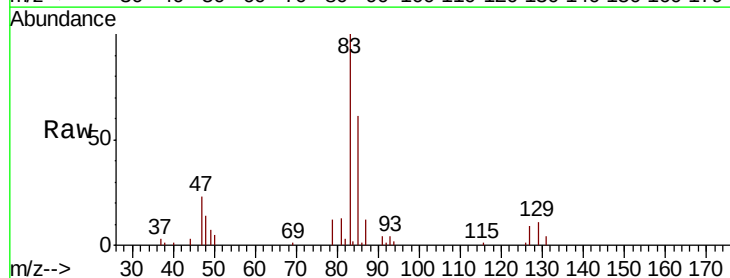
Instrument :
 MSVOA_U
 ClientSampleId :

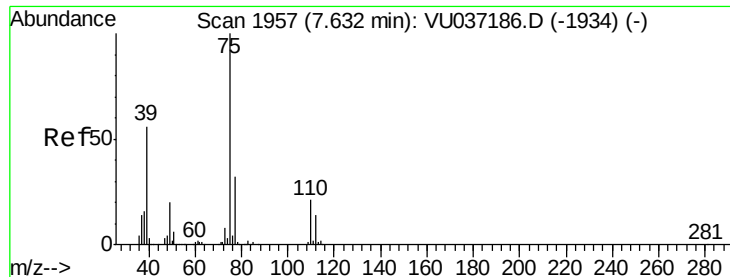
Tot Ion: 63 Resp: 18625
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.1 4.7



#38
 Bromodichloromethane
 Concen: 4.914 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

Tgt Ion: 83 Resp: 25411
 Ion Ratio Lower Upper
 83 100
 85 61.4 45.7 84.9
 127 9.3 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 4.456 ug/L

RT: 7.64 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

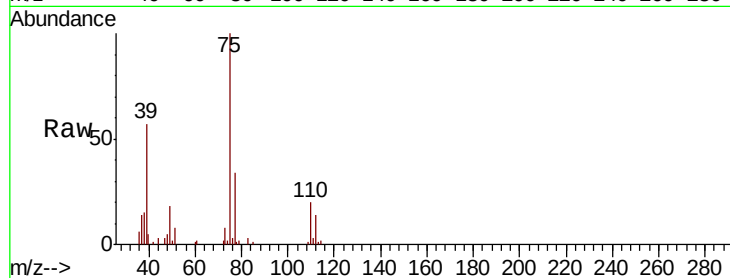
ClientSampled :

Tot Ion: 75 Resp: 25554

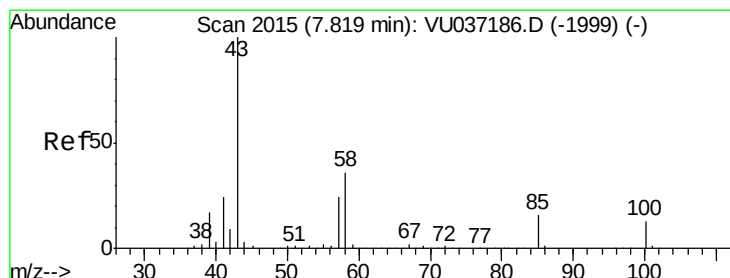
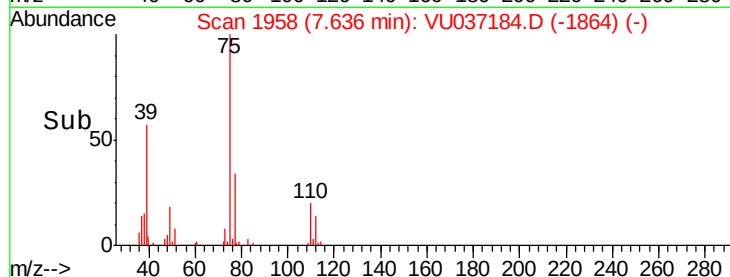
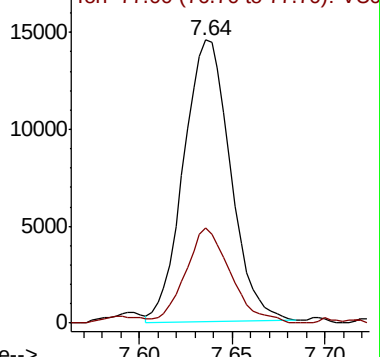
Ion Ratio Lower Upper

75 100

77 33.7 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU037184.D (-1934) (-)



#40

4-Methyl-2-pentanone

Concen: 8.405 ug/L

RT: 7.82 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

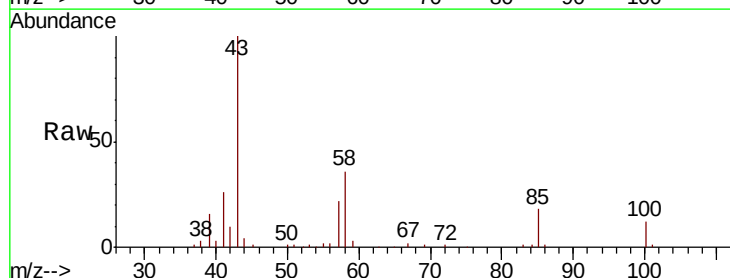
Tgt Ion: 43 Resp: 50606

Ion Ratio Lower Upper

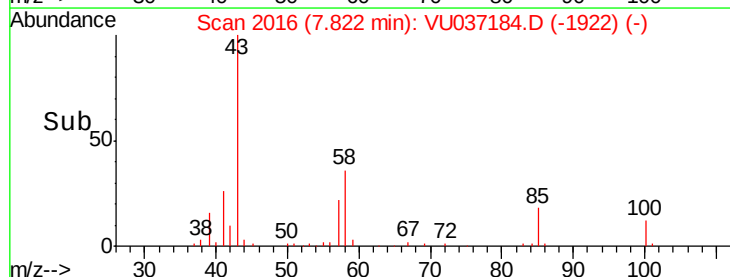
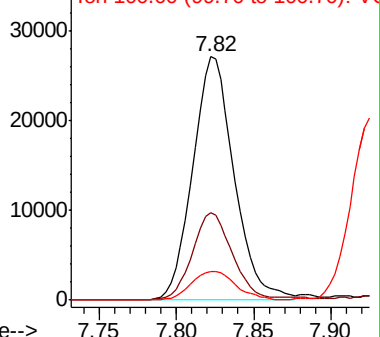
43 100

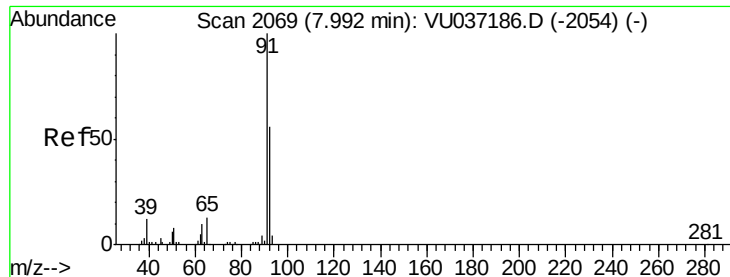
58 34.9 29.3 43.9

100 12.7 10.3 15.5



Abundance Ion 43.00 (42.70 to 43.70): VU037184.D (-1999) (-)





#42

Toluene

Concen: 4.806 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

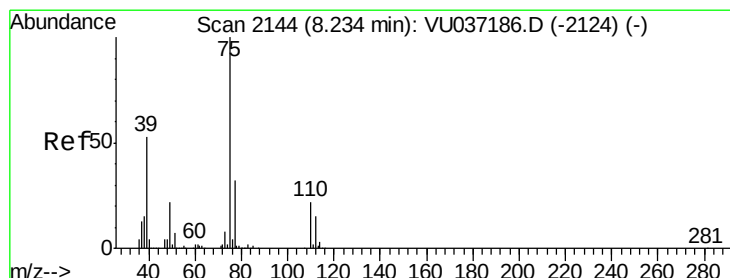
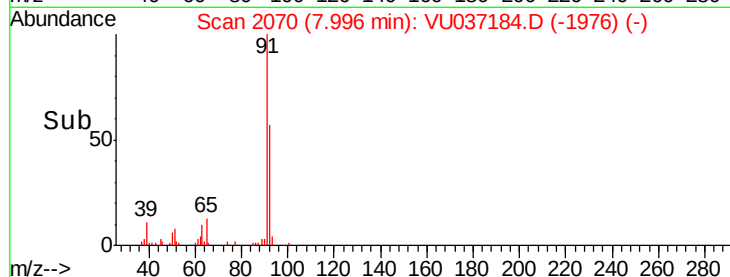
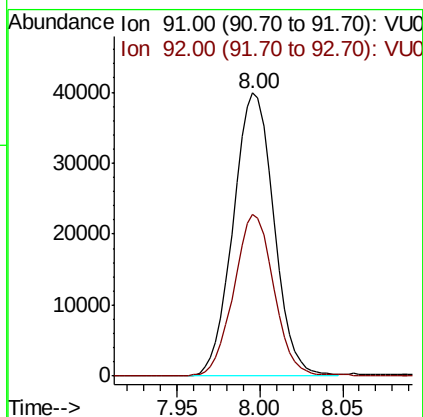
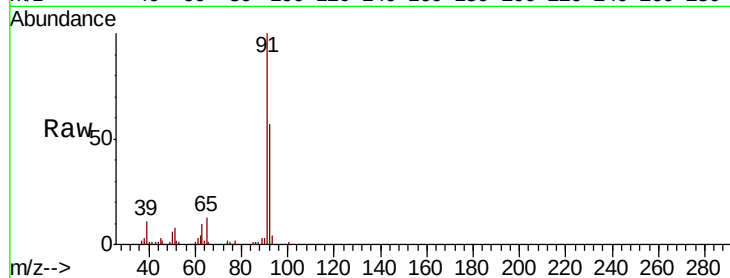
ClientSampleId :

Tot Ion: 91 Resp: 68298

Ion Ratio Lower Upper

91 100

92 57.2 39.1 72.5



#44

trans-1,3-Dichloropropene

Concen: 4.483 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037184.D

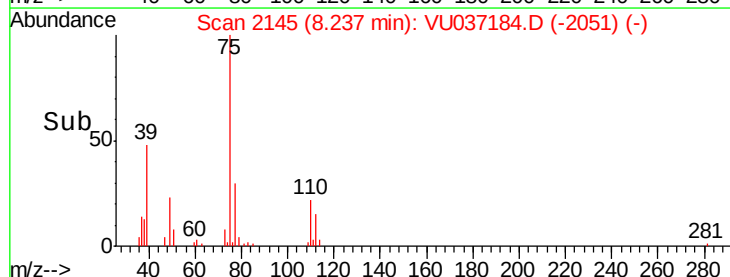
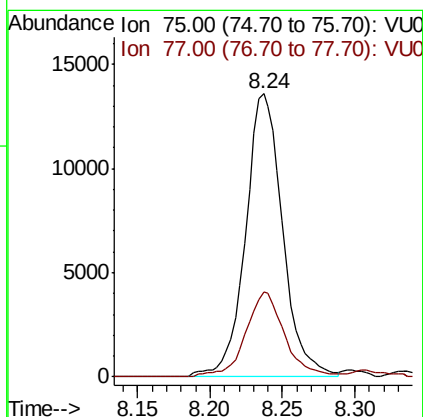
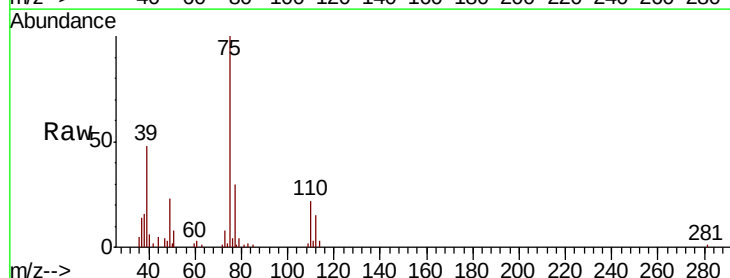
Acq: 12 Mar 2020 12:40

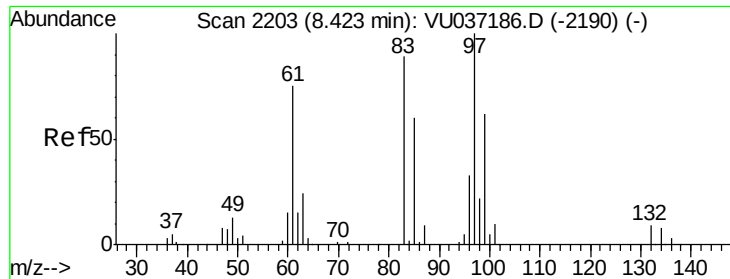
Tgt Ion: 75 Resp: 24274

Ion Ratio Lower Upper

75 100

77 30.1 22.1 41.1

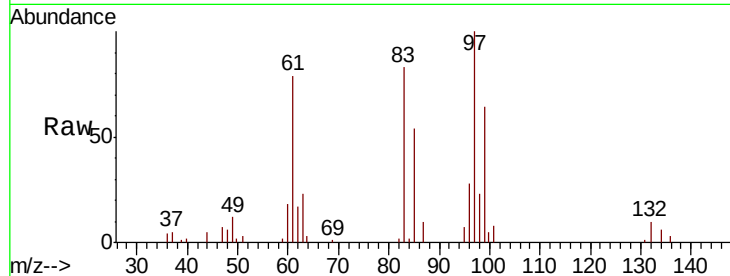




#45
 1,1,2-Trichloroethane
 Concen: 4.989 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	16804
Ion	Ratio	Lower	Upper
97	100		
99	63.9	43.5	80.9
83	82.8	62.4	116.0
85	54.2	41.9	77.7



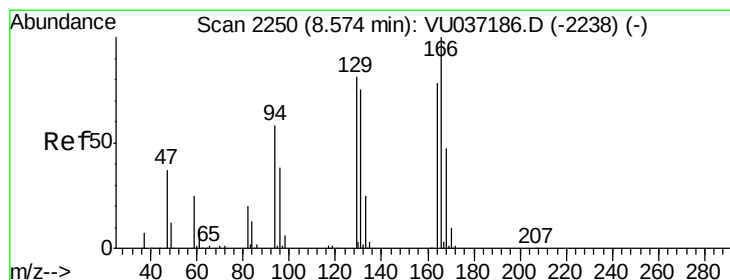
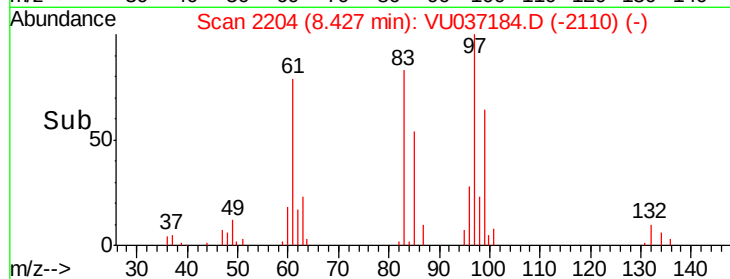
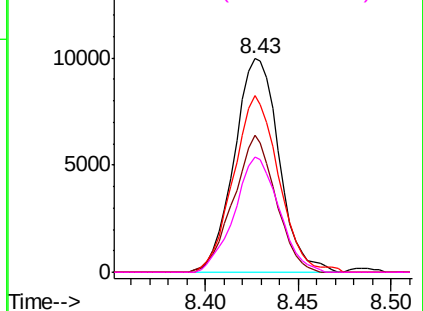
Abundance

Ion 97.00 (96.70 to 97.70): VU037184.D (-2190) (-)

Ion 99.00 (98.70 to 99.70): VU037184.D (-2190) (-)

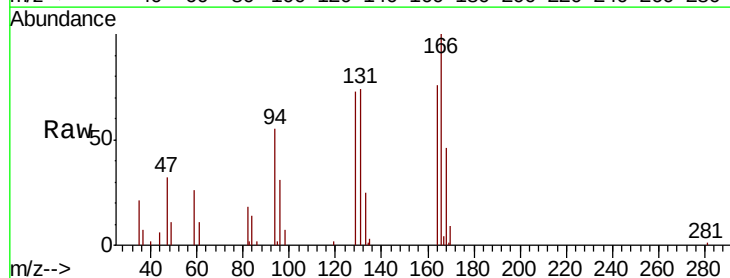
Ion 83.00 (82.70 to 83.70): VU037184.D (-2190) (-)

Ion 85.00 (84.70 to 85.70): VU037184.D (-2190) (-)



#46
 Tetrachloroethene
 Concen: 4.802 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

Tgt Ion:	164	Resp:	12063
Ion	Ratio	Lower	Upper
164	100		
129	95.2	72.4	134.5
131	96.8	67.1	124.7
166	130.8	89.5	166.1



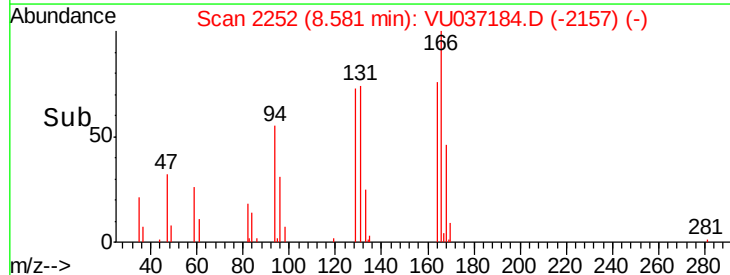
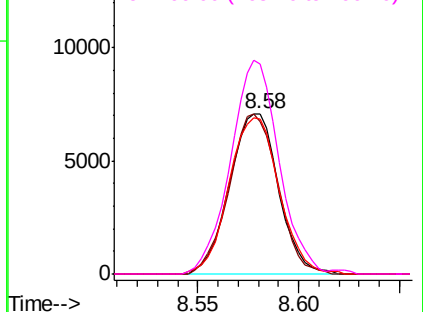
Abundance

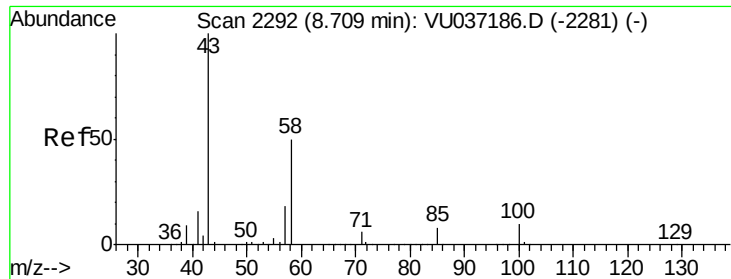
Ion 164.00 (163.70 to 164.70): VU037184.D (-2157) (-)

Ion 129.00 (128.70 to 129.70): VU037184.D (-2157) (-)

Ion 131.00 (130.70 to 131.70): VU037184.D (-2157) (-)

Ion 166.00 (165.70 to 166.70): VU037184.D (-2157) (-)

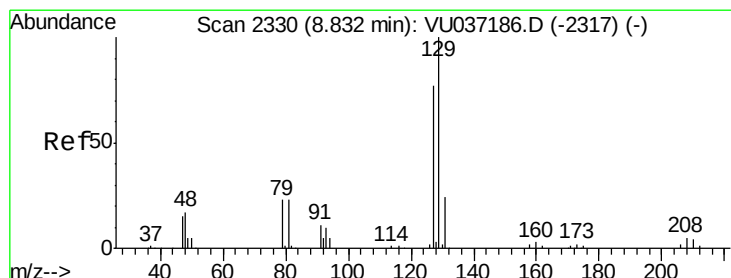
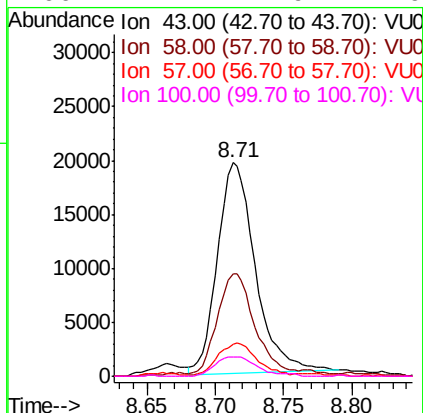
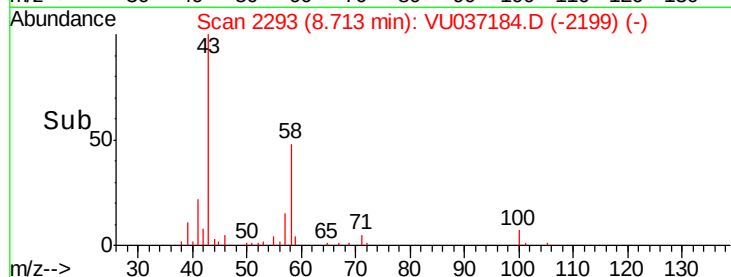
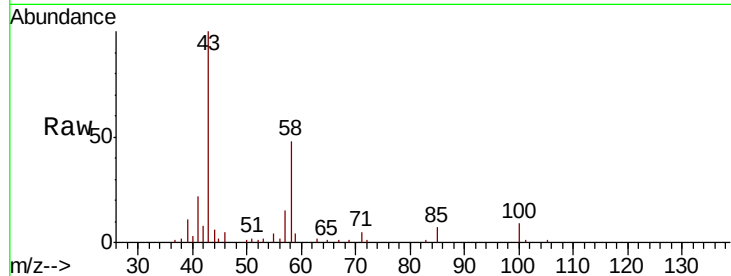




#48
2-Hexanone
Concen: 7.916 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

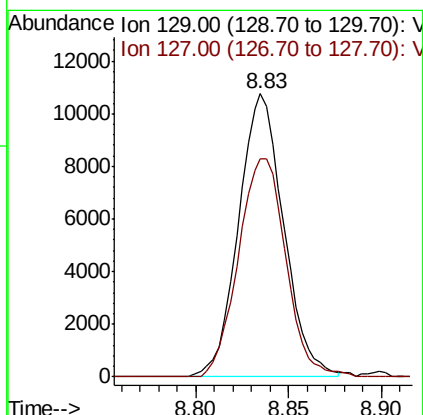
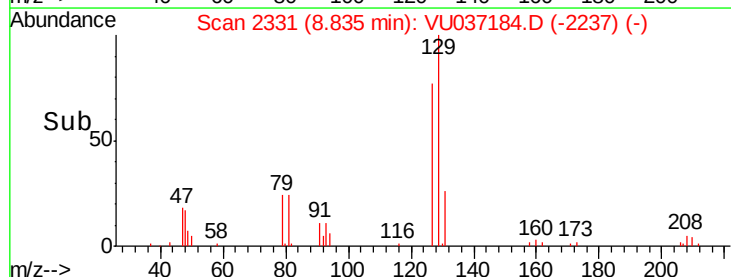
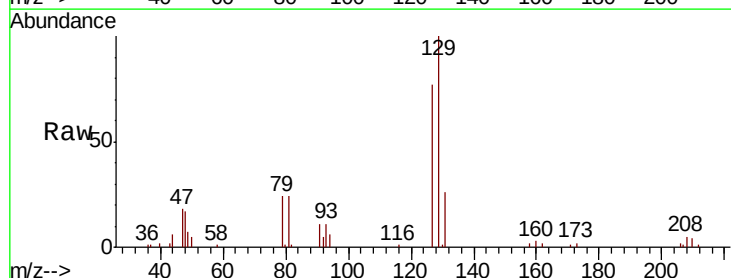
Instrument :
MSVOA_U
ClientSampleId :

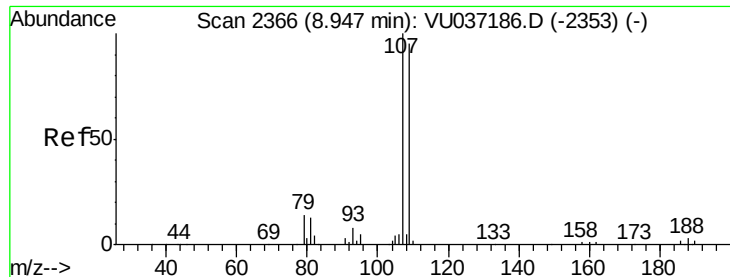
Tot Ion: 43 Resp: 37562
Ion Ratio Lower Upper
43 100
58 48.3 39.8 59.6
57 16.5 14.5 21.7
100 4.7 7.9 11.9#



#49
Dibromochloromethane
Concen: 4.578 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Tgt Ion: 129 Resp: 18139
Ion Ratio Lower Upper
129 100
127 77.2 53.8 100.0

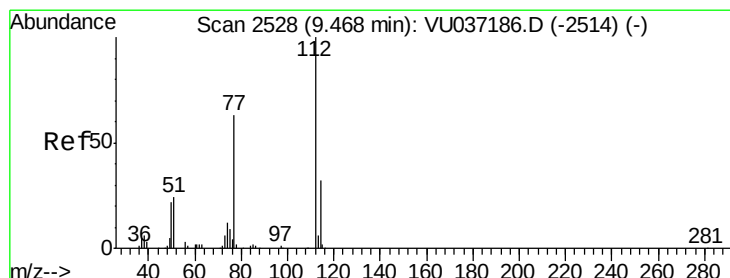
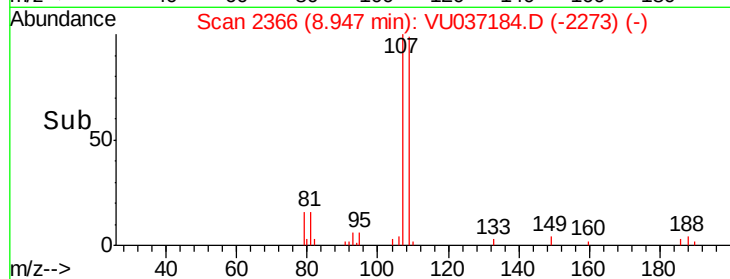
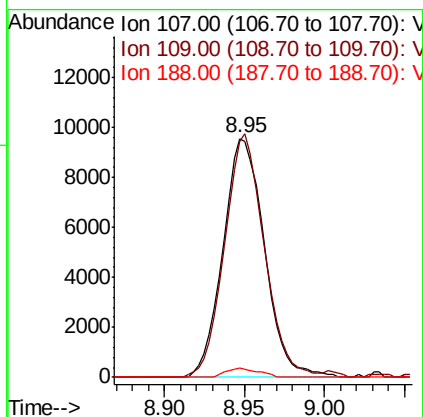
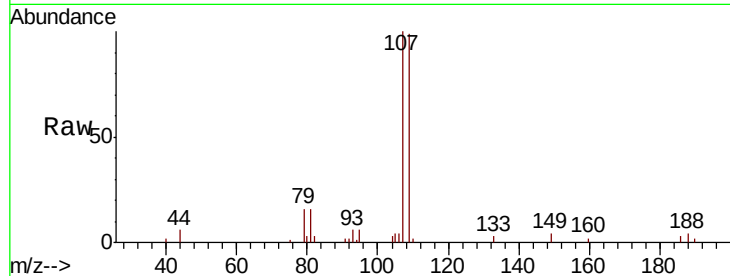




#50
 1,2-Dibromoethane
 Concen: 4.661 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

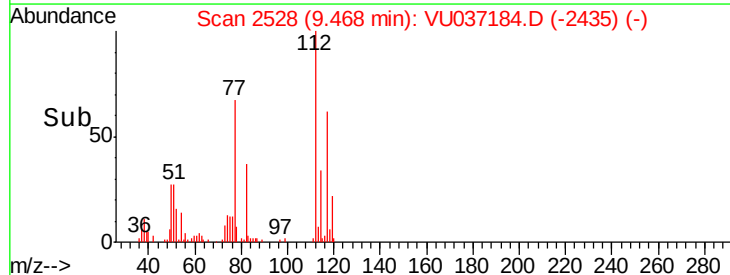
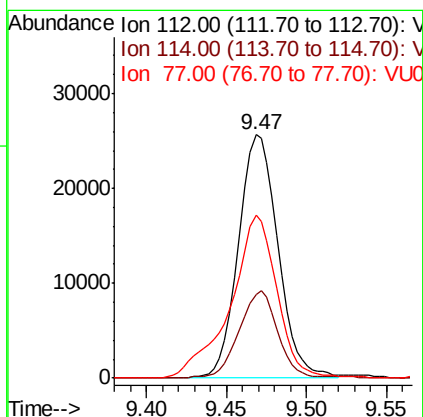
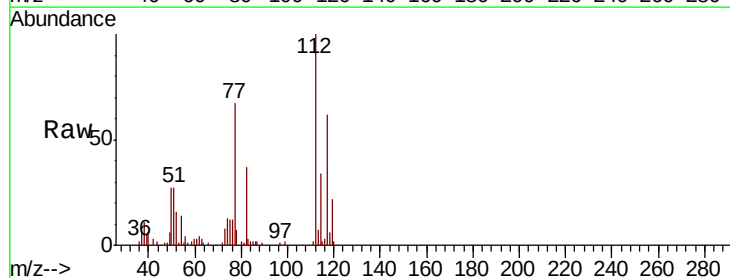
Instrument :
 MSVOA_U
 ClientSampled :

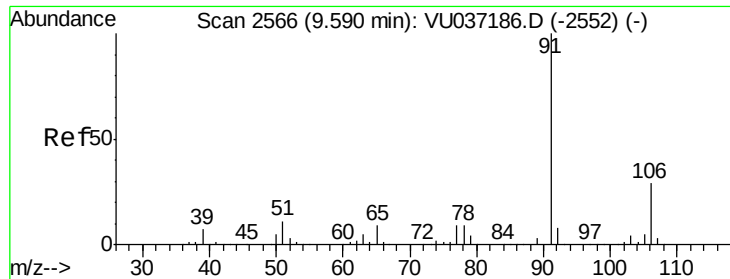
Tot Ion:107 Resp: 16940
 Ion Ratio Lower Upper
 107 100
 109 98.6 66.5 123.5
 188 4.1 2.6 4.0#



#51
 Chlorobenzene
 Concen: 4.841 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

Tgt Ion:112 Resp: 43260
 Ion Ratio Lower Upper
 112 100
 114 34.3 22.6 42.0
 77 66.7 51.0 76.4

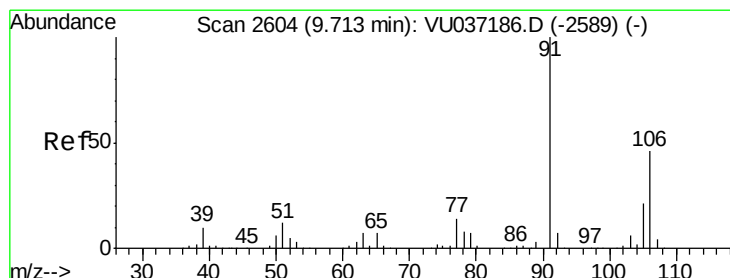
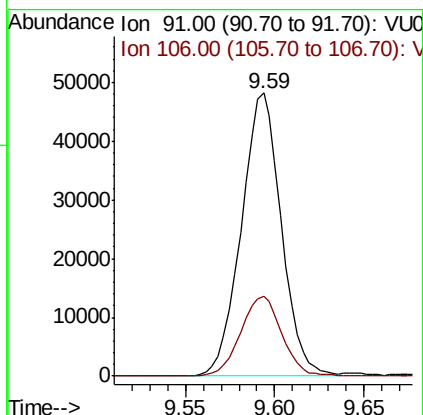
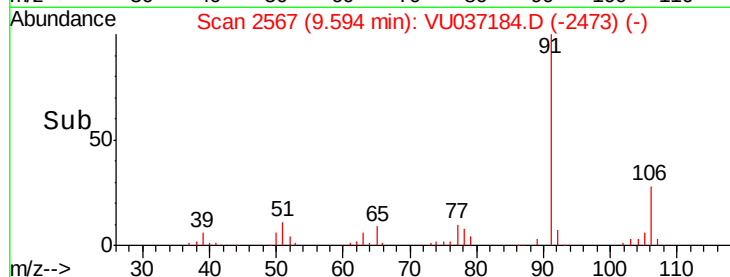
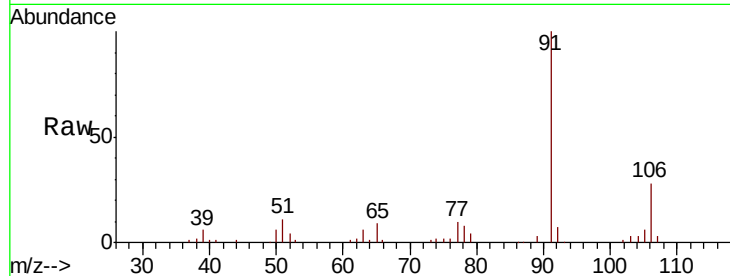




#52
Ethylbenzene
Concen: 4.598 ug/L
RT: 9.59 min Scan# 2567
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

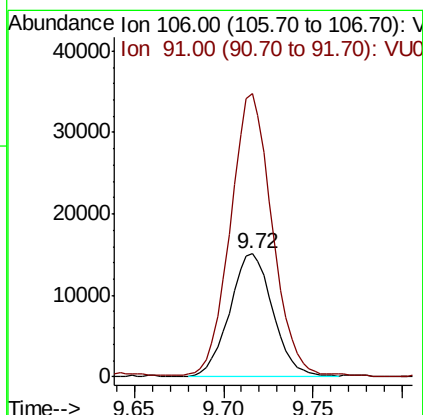
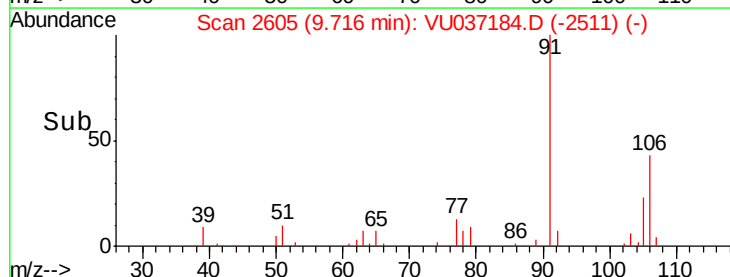
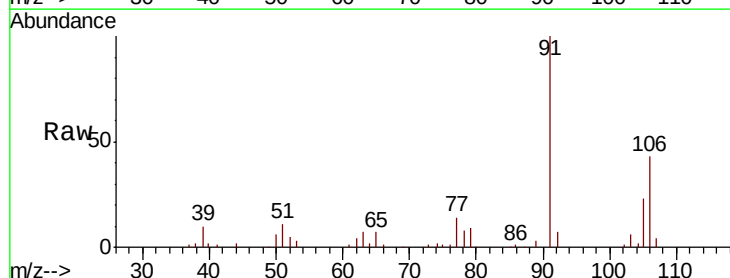
Instrument :
MSVOA_U
ClientSampled :

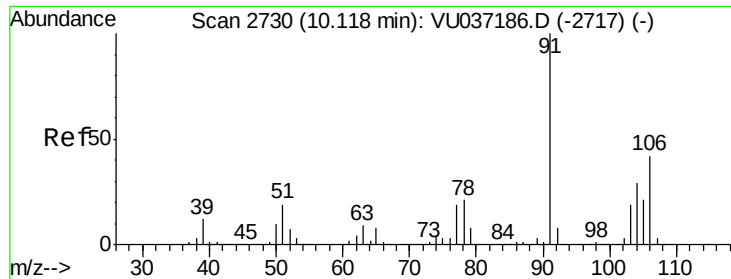
Tot Ion: 91 Resp: 75648
Ion Ratio Lower Upper
91 100
106 28.3 20.2 37.6



#53
m,p-Xylene
Concen: 4.386 ug/L
RT: 9.72 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Tgt Ion: 106 Resp: 25527
Ion Ratio Lower Upper
106 100
91 230.5 154.0 286.0

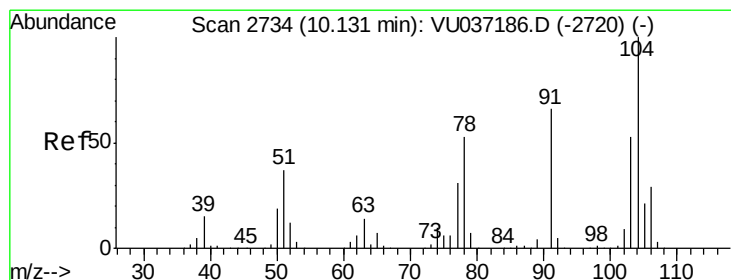
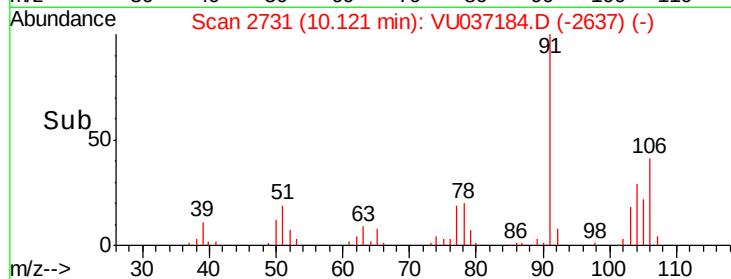
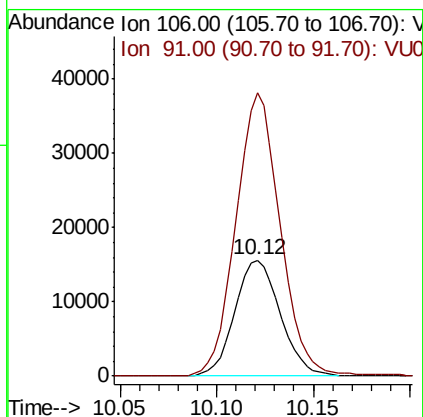
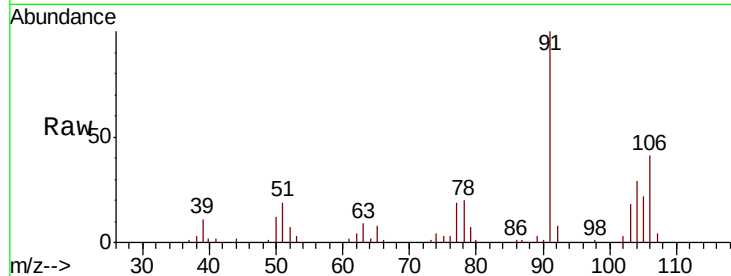




#54
o-xylene
Concen: 4.435 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

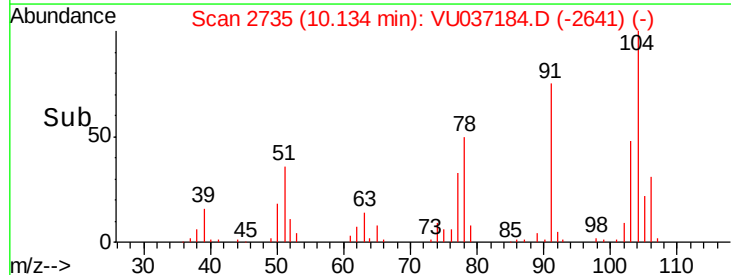
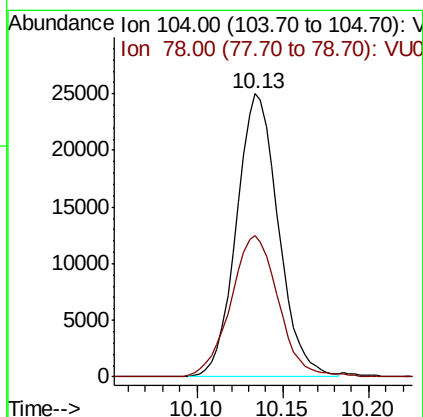
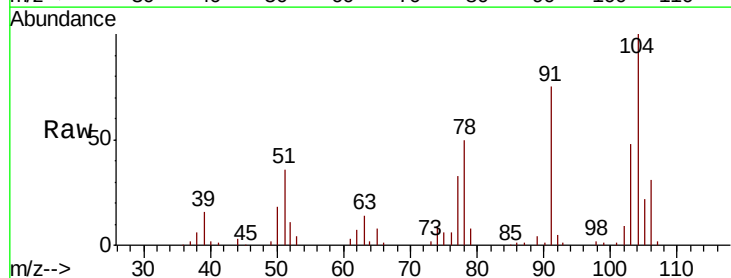
Instrument :
MSVOA_U
ClientSampleId :

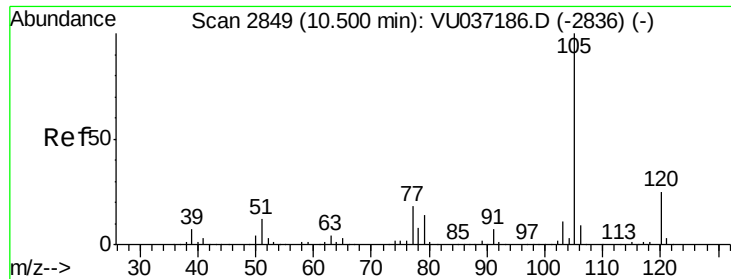
Tot Ion:106 Resp: 25499
Ion Ratio Lower Upper
106 100
91 244.4 167.6 311.2



#55
Styrene
Concen: 4.358 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VU037184.D
Acq: 12 Mar 2020 12:40

Tgt Ion:104 Resp: 42492
Ion Ratio Lower Upper
104 100
78 50.1 37.4 69.4





#56

Isopropylbenzene

Concen: 4.410 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

ClientSampled :

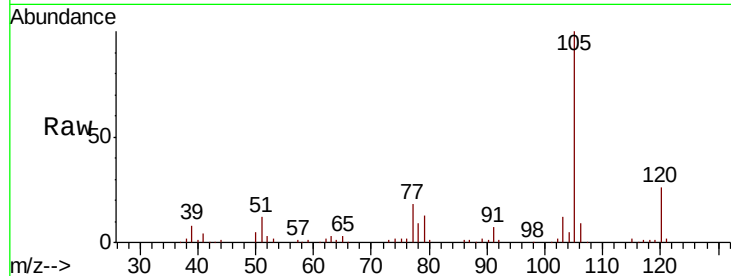
Tot Ion:105 Resp: 70483

Ion Ratio Lower Upper

105 100

120 25.8 19.9 29.9

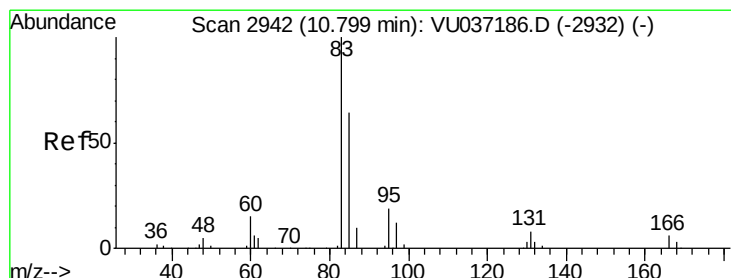
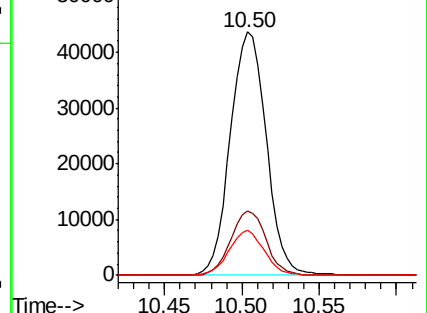
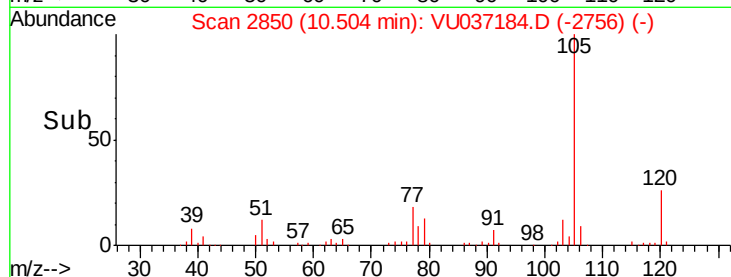
77 17.8 14.1 21.1



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: 4.458 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

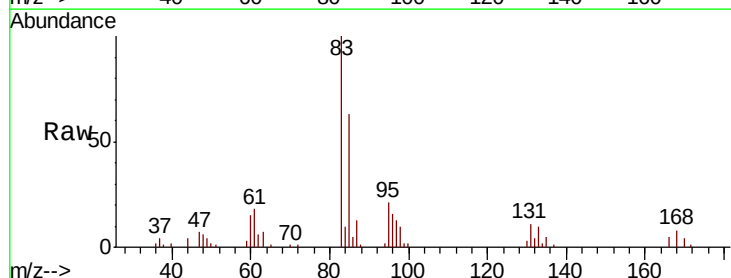
Tgt Ion: 83 Resp: 27407

Ion Ratio Lower Upper

83 100

85 62.7 45.8 85.2

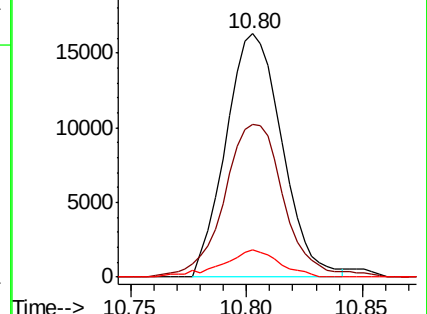
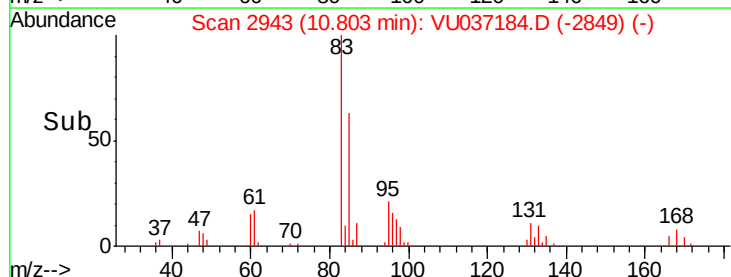
131 11.0 7.7 11.5

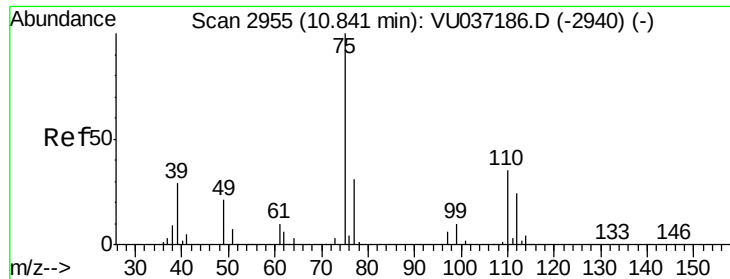


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.459 ug/L

RT: 10.84 min Scan# 2956

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

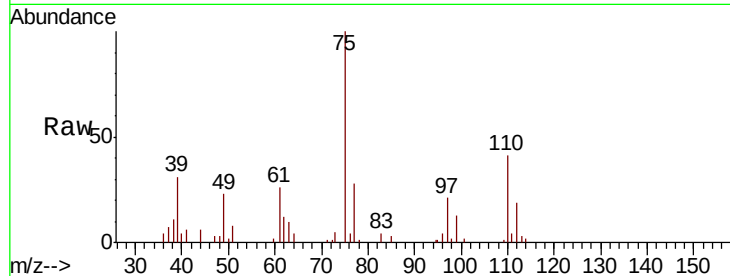
ClientSampleId :

Tot Ion: 75 Resp: 22928

Ion Ratio Lower Upper

75 100

77 32.4 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VU037184.D (-2940) (-)

Ion 77.00 (76.70 to 77.70): VU037184.D (-2940) (-)

10.84

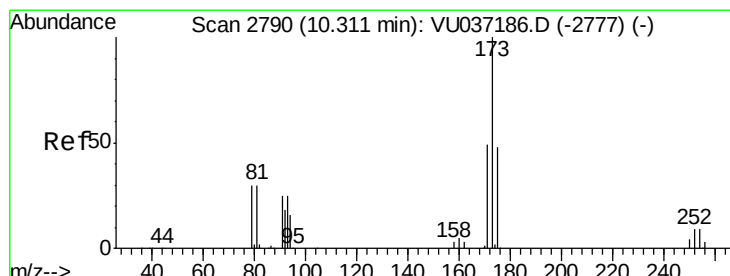
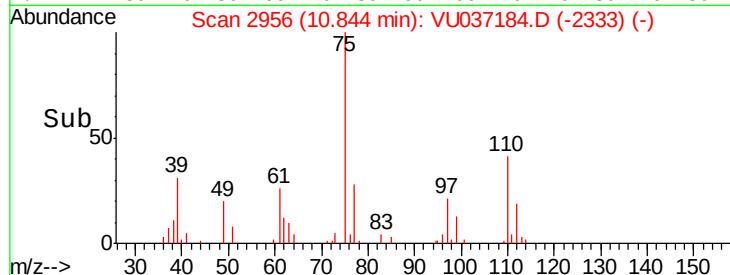
15000

10000

5000

0

Time-->



#61

Bromoform

Concen: 4.890 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

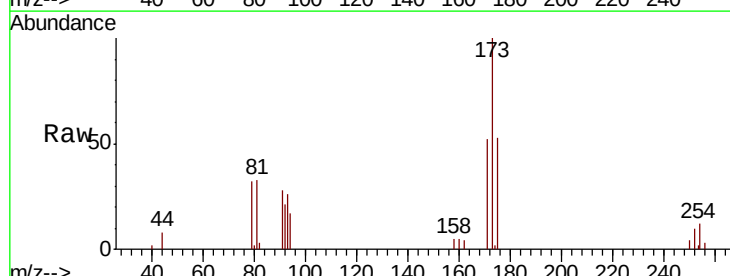
Tgt Ion: 173 Resp: 13703

Ion Ratio Lower Upper

173 100

175 49.4 38.3 57.5

254 10.2 7.6 11.4



Abundance Ion 173.00 (172.70 to 173.70): VU037184.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU037184.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU037184.D (-2777) (-)

10.31

10000

8000

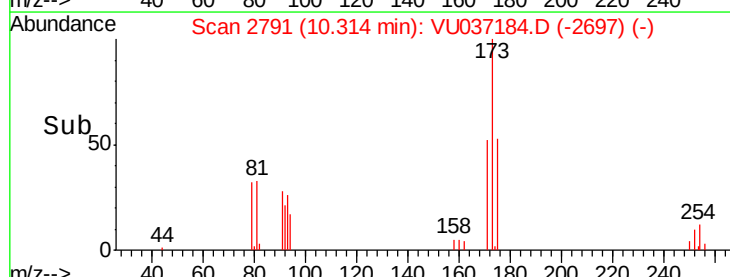
6000

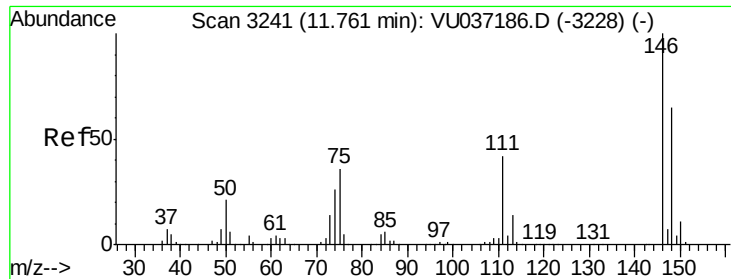
4000

2000

0

Time-->

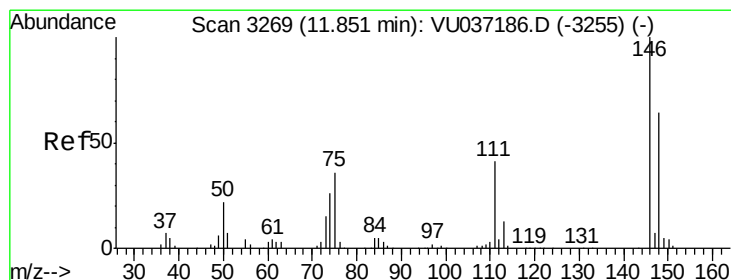
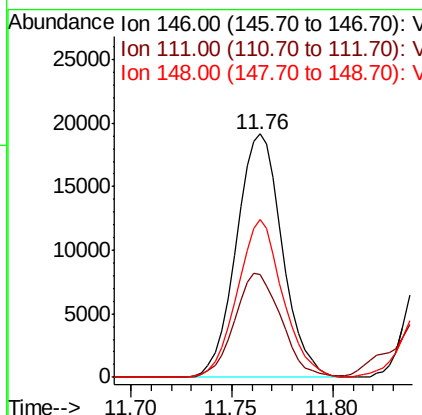
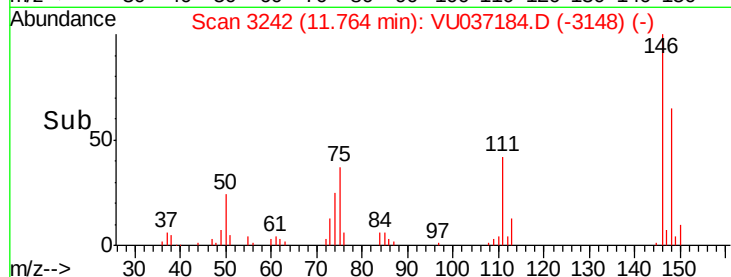
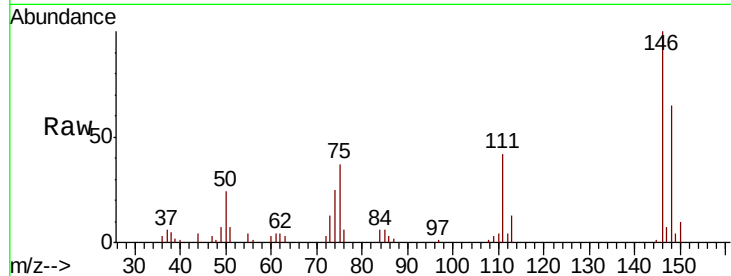




#62
 1,3-Dichlorobenzene
 Concen: 4.802 ug/L
 RT: 11.76 min Scan# 3242
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

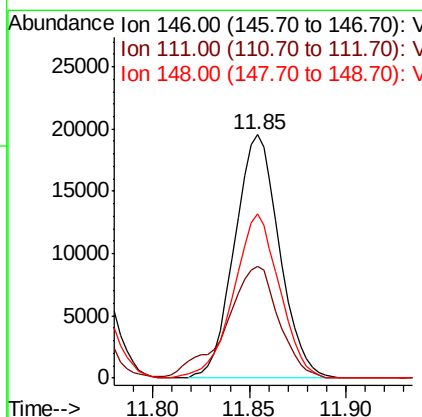
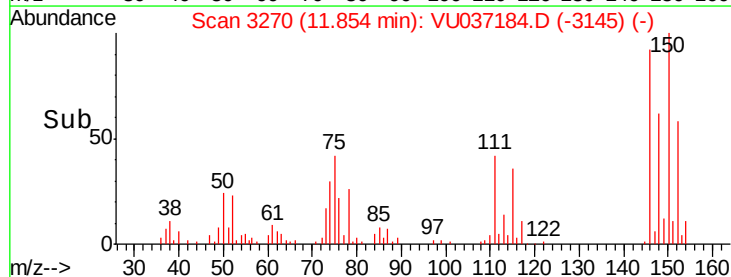
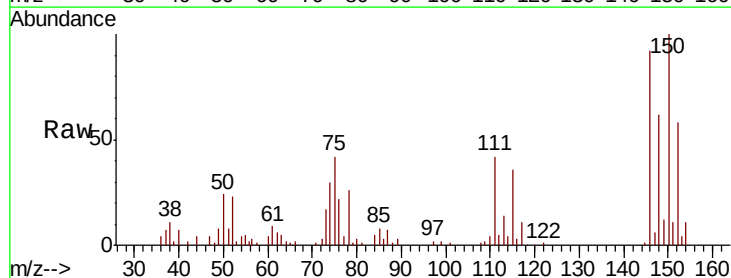
Instrument :
 MSVOA_U
 ClientSampleId :

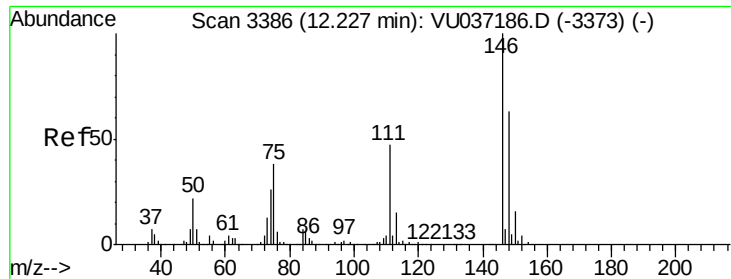
Tot Ion:146 Resp: 30536
 Ion Ratio Lower Upper
 146 100
 111 42.0 29.2 54.2
 148 65.0 45.8 85.0



#63
 1,4-Dichlorobenzene
 Concen: 4.902 ug/L
 RT: 11.85 min Scan# 3270
 Delta R.T. 0.00 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

Tgt Ion:146 Resp: 31503
 Ion Ratio Lower Upper
 146 100
 111 45.9 28.5 52.9
 148 67.5 44.8 83.2





#65

1,2-Dichlorobenzene

Concen: 4.973 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

ClientSampleId :

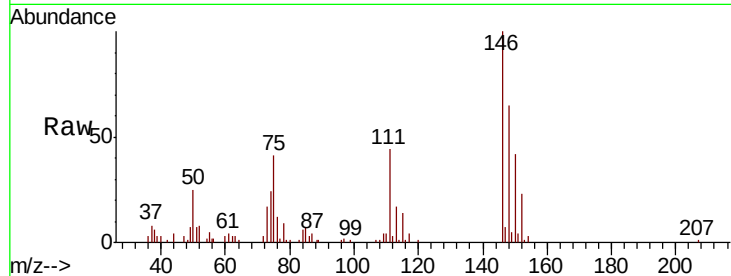
Tot Ion:146 Resp: 32300

Ion Ratio Lower Upper

146 100

111 44.0 37.4 56.2

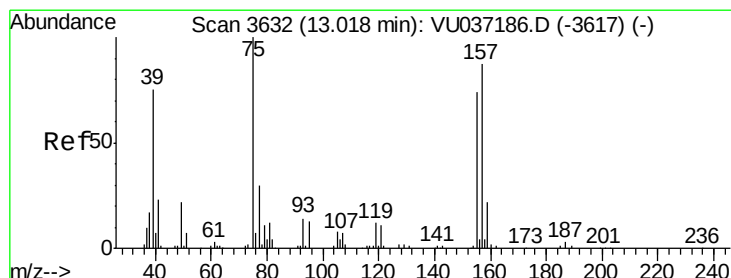
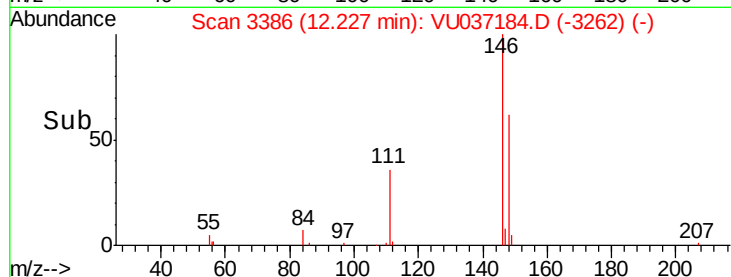
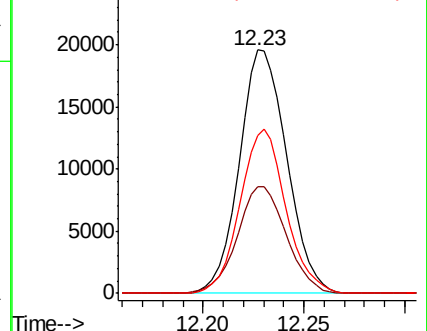
148 65.0 50.8 76.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.509 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. 0.01 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

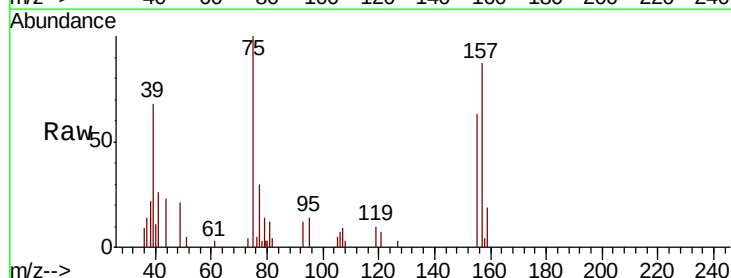
Tgt Ion: 75 Resp: 6456

Ion Ratio Lower Upper

75 100

155 63.0 59.0 88.4

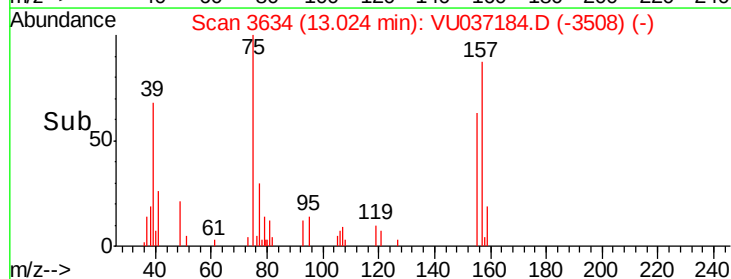
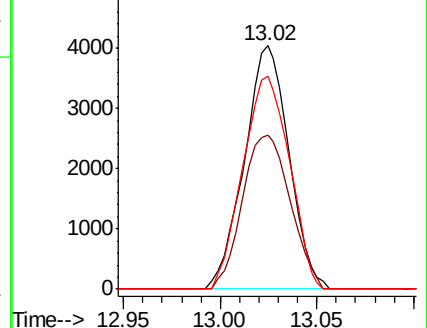
157 87.4 69.9 104.9

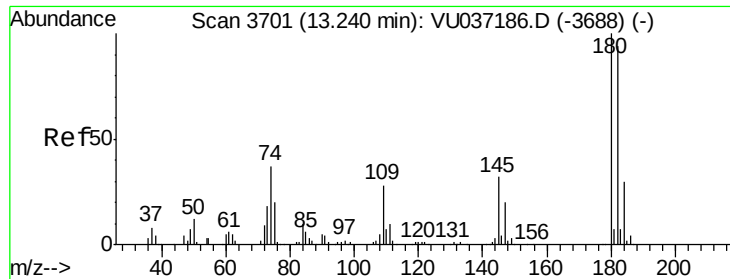


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

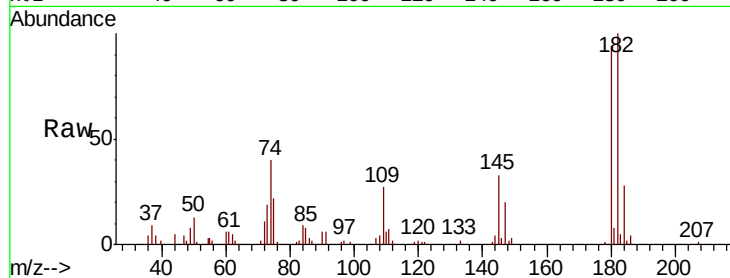




#67
 1,3,5-Trichlorobenzene
 Concen: 4.595 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.01 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	21293
Ion	Ratio	Lower Upper
180	100	
182	99.7	75.8 113.8
184	29.8	24.5 36.7
145	31.8	25.9 38.9



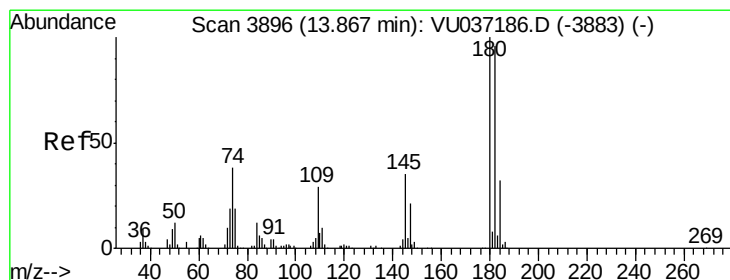
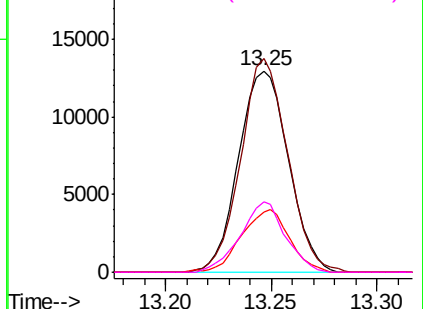
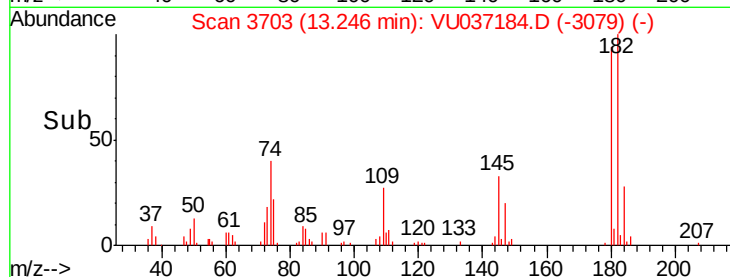
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

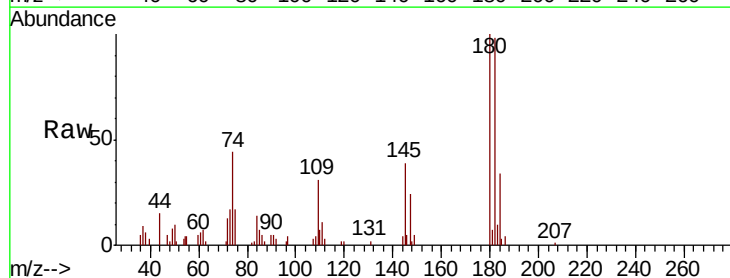
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 3.858 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.01 min
 Lab File: VU037184.D
 Acq: 12 Mar 2020 12:40

Tgt Ion:180	Resp:	13962
Ion	Ratio	Lower Upper
180	100	
182	101.7	75.9 113.9
145	31.8	26.7 40.1

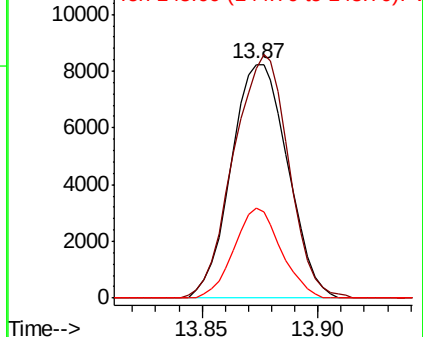
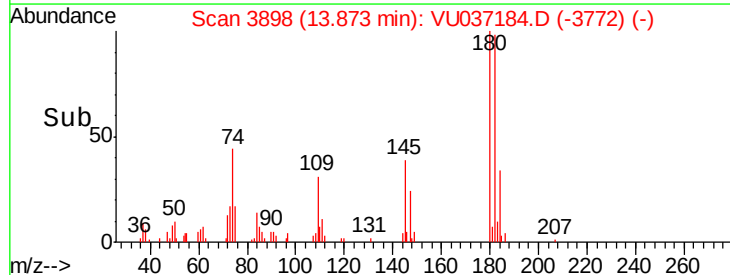


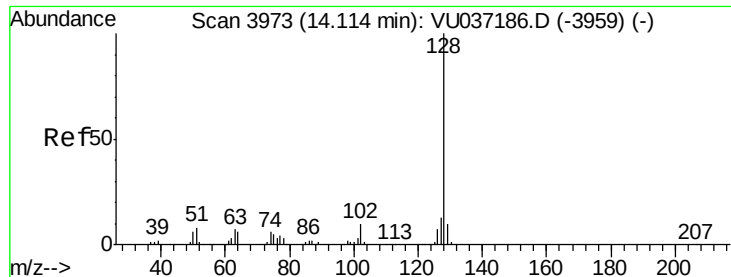
Abundance

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: 3.073 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

Instrument :

MSVOA_U

ClientSampled :

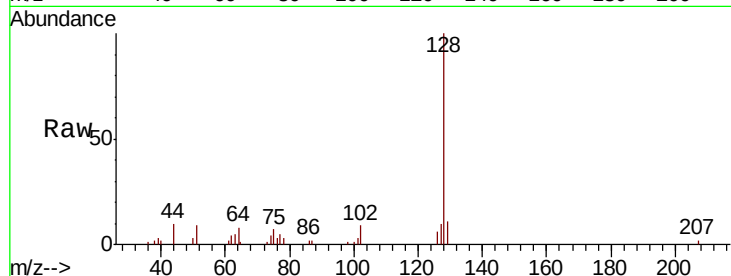
Tot Ion:128 Resp: 16865

Ion Ratio Lower Upper

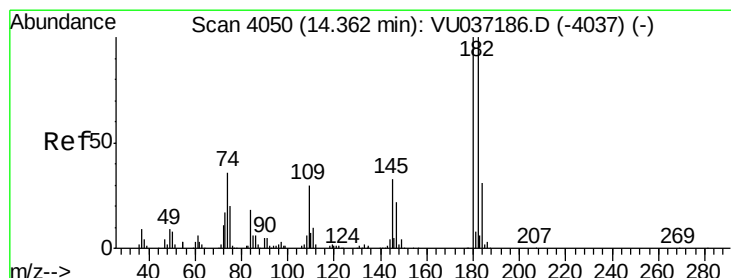
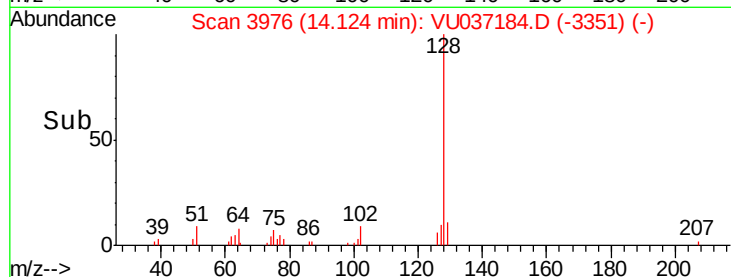
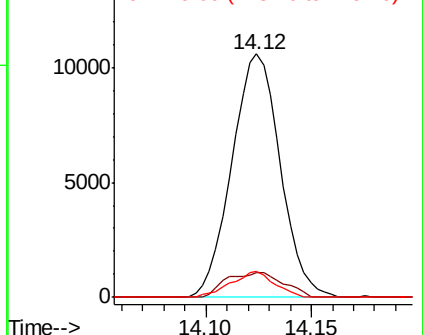
128 100

127 7.4 10.2 15.4#

129 9.5 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: 4.038 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. 0.01 min

Lab File: VU037184.D

Acq: 12 Mar 2020 12:40

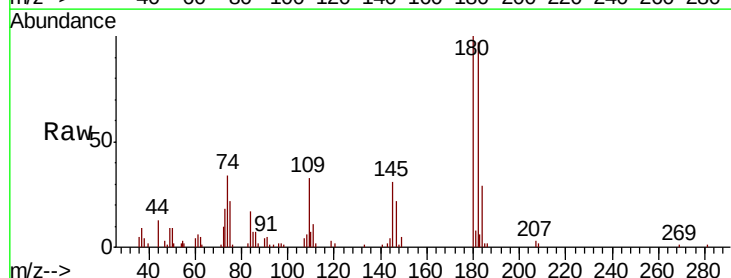
Tgt Ion:180 Resp: 15332

Ion Ratio Lower Upper

180 100

182 98.8 77.8 116.6

145 30.3 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

