

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032120\
 Data File : VU037361.D
 Acq On : 21 Mar 2020 18:12
 Operator : JC/MD
 Sample : VSTD01035
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 23 04:03:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 23 04:00:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	269698	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	258250	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	120805	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	28084	12.98	ug/L	0.00
7) Chloroethane-d5	1.93	69	20828	12.09	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	43197	11.18	ug/L	0.00
21) 2-Butanone-d5	4.67	46	35625	21.52	ug/L	0.00
24) Chloroform-d	5.10	84	44253	11.01	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	32366	11.10	ug/L	0.00
32) Benzene-d6	5.76	84	80901	11.31	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	26146	11.24	ug/L	0.00
41) Toluene-d8	7.92	98	76202	11.11	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	13337	10.44	ug/L	0.00
47) 2-Hexanone-d5	8.66	63	23096	18.95	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	39714	10.99	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	29201	11.61	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	29572	10.569	ug/L 99
3) Chloromethane	1.54	50	28383	12.062	ug/L 96
5) Vinyl chloride	1.62	62	26261	10.514	ug/L 97
6) Bromomethane	1.87	94	11655	11.681	ug/L 98
8) Chloroethane	1.95	64	15537	10.729	ug/L 100
9) Trichlorofluoromethane	2.16	101	37662	9.983	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	17972	10.254	ug/L 98
12) 1,1-Dichloroethene	2.60	96	17114	10.668	ug/L 91
13) Acetone	2.66	43	21872	14.823	ug/L 97
14) Carbon disulfide	2.82	76	53795	11.485	ug/L 99
15) Methyl Acetate	2.98	43	24246	9.978	ug/L 100
16) Methylene chloride	3.08	84	20762	10.509	ug/L 93
17) trans-1,2-Dichloroethene	3.39	96	16498	9.837	ug/L 97
18) Methyl tert-butyl Ether	3.40	73	59827	9.414	ug/L 99
19) 1,1-Dichloroethane	3.91	63	36825	10.040	ug/L 98
20) cis-1,2-Dichloroethene	4.71	96	19886	9.931	ug/L 99
22) 2-Butanone	4.75	43	32787	17.106	ug/L 97
23) Bromochloromethane	5.02	128	11147	10.840	ug/L 98
25) Chloroform	5.13	83	39569	9.926	ug/L 100
27) 1,2-Dichloroethane	5.83	62	33373	9.501	ug/L 100
29) Cyclohexane	5.42	56	27404	9.068	ug/L 99
30) 1,1,1-Trichloroethane	5.36	97	35854	10.475	ug/L 98
31) Carbon tetrachloride	5.56	117	29620	9.808	ug/L 98
33) Benzene	5.81	78	76694	10.160	ug/L 100
34) Trichloroethene	6.57	95	19559	9.900	ug/L 96
35) Methylcyclohexane	6.79	83	28327	9.480	ug/L 98
37) 1,2-Dichloropropane	6.82	63	20525	9.640	ug/L 98
38) Bromodichloromethane	7.13	83	28691	9.624	ug/L 99
39) cis-1,3-Dichloropropene	7.64	75	29398	8.930	ug/L 96
40) 4-Methyl-2-pentanone	7.82	43	60851	17.630	ug/L 99

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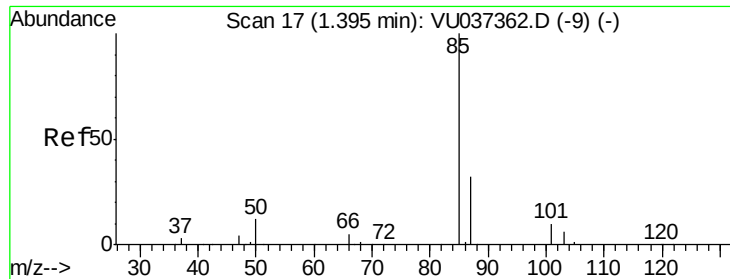
Instrument :
 MSVOA_U
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	78144	9.445	ug/L	95
44) trans-1,3-Dichloropropene	8.24	75	31185	9.832	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	19998	10.196	ug/L	98
46) Tetrachloroethene	8.57	164	15374	10.365	ug/L	97
48) 2-Hexanone	8.71	43	49489	18.248	ug/L	94
49) Dibromochloromethane	8.83	129	22926	9.910	ug/L	99
50) 1,2-Dibromoethane	8.95	107	22330	10.517	ug/L	94
51) Chlorobenzene	9.47	112	51057	9.785	ug/L	98
52) Ethylbenzene	9.59	91	84025	8.839	ug/L	100
53) m,p-Xylene	9.71	106	31510	9.324	ug/L	92
54) o-xylene	10.12	106	31606	9.444	ug/L	95
55) Styrene	10.13	104	49868	8.785	ug/L	98
56) Isopropylbenzene	10.50	105	81785	8.826	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	33997	9.554	ug/L #	97
59) 1,2,3-Trichloropropane	10.84	75	29375	9.920	ug/L	99
61) Bromoform	10.31	173	18238	10.857	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	37754	9.931	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	37278	9.746	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	40339	10.400	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	8410	9.897	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	24128	8.790	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	16407	7.684	ug/L	96
69) Naphthalene	14.12	128	35707	9.422	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	17476	7.755	ug/L	95

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

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#2

Dichlorodifluoromethane

Concen: 10.569 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

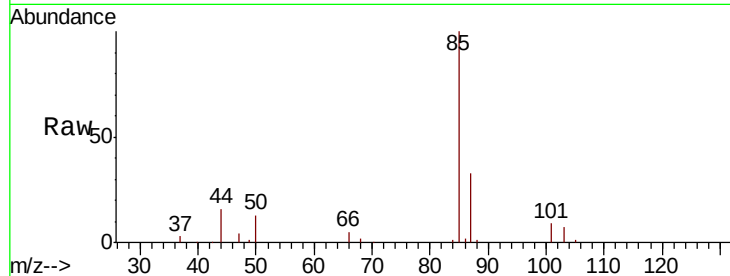
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 29572

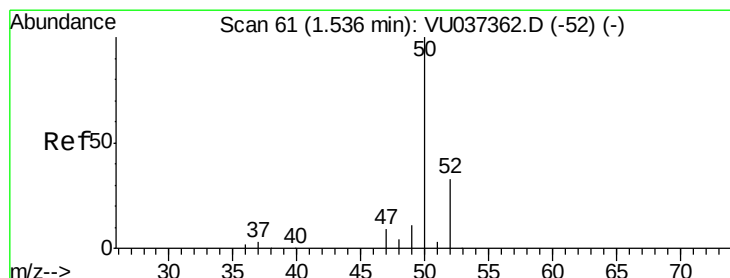
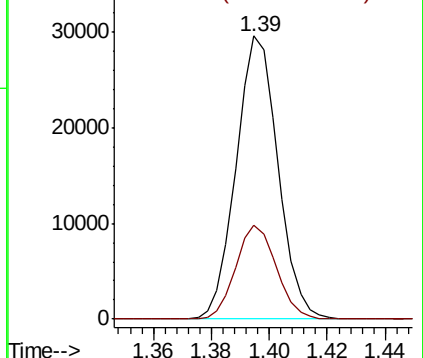
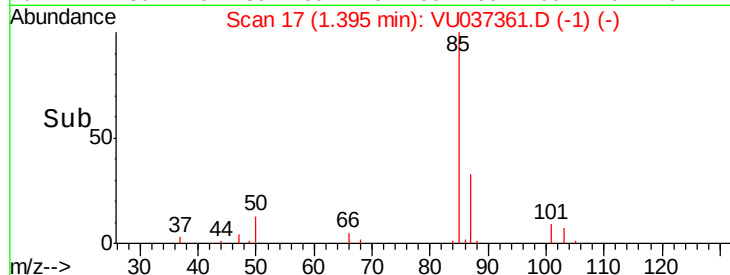
Ion Ratio Lower Upper

85 100

87 32.1 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU037361.D (-1) (-)



#3

Chloromethane

Concen: 12.062 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037361.D

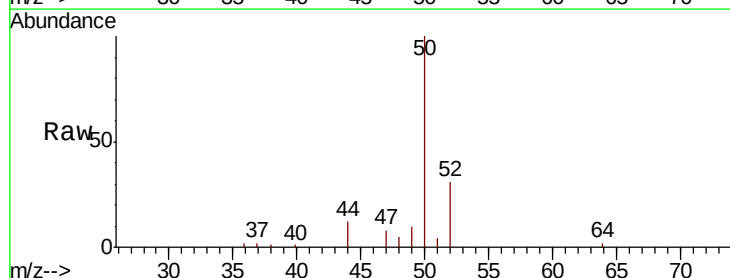
Acq: 21 Mar 2020 18:12

Tgt Ion: 50 Resp: 28383

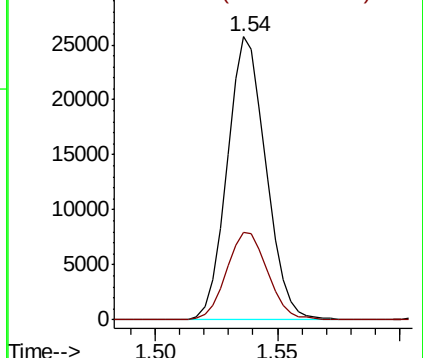
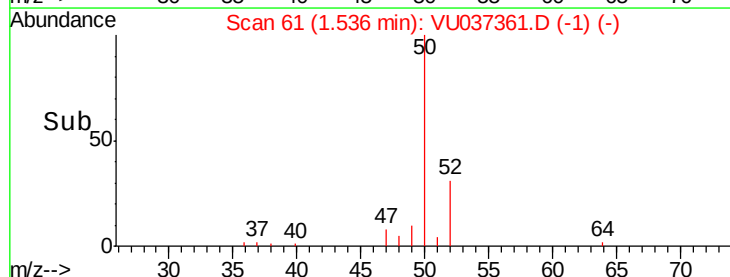
Ion Ratio Lower Upper

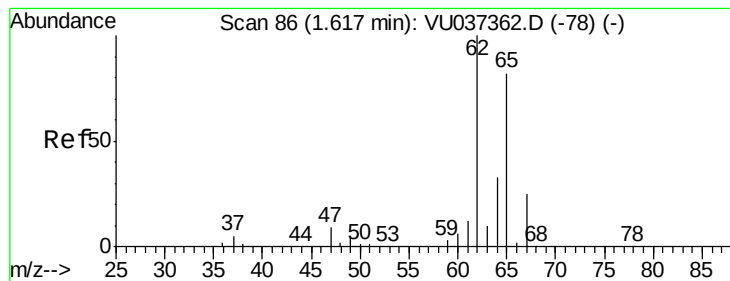
50 100

52 31.0 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU037361.D (-1) (-)





#5

Vinyl chloride

Concen: 10.514 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

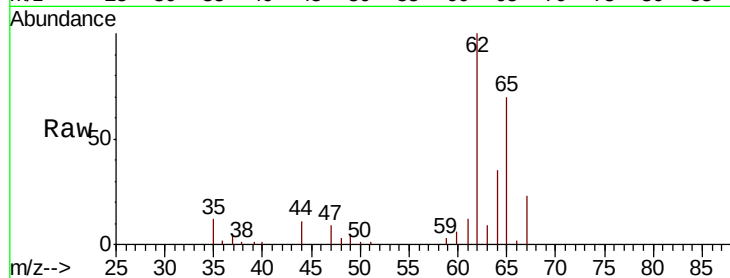
ClientSampleId :

Tot Ion: 62 Resp: 26261

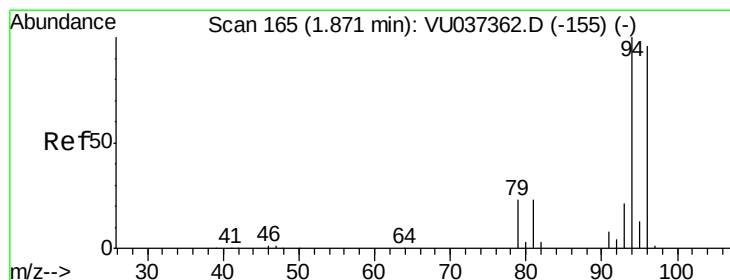
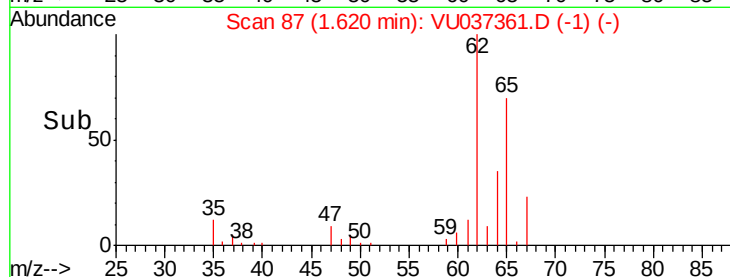
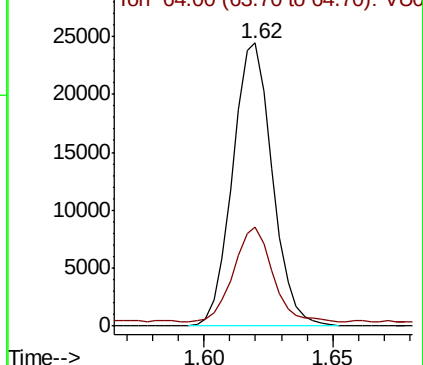
Ion Ratio Lower Upper

62 100

64 34.9 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU037361.D (-1) (-)



#6

Bromomethane

Concen: 11.681 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037361.D

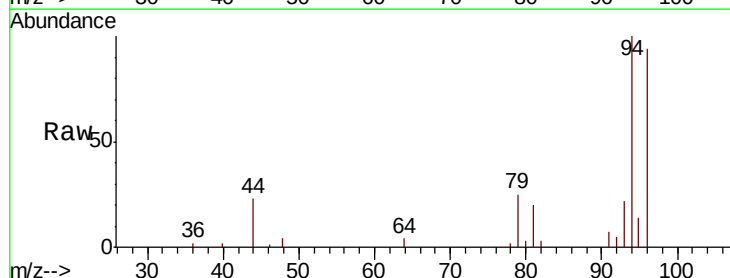
Acq: 21 Mar 2020 18:12

Tgt Ion: 94 Resp: 11655

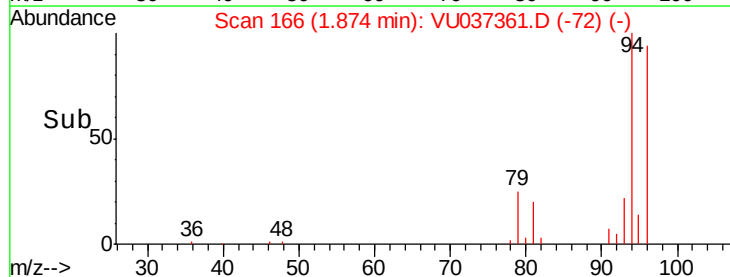
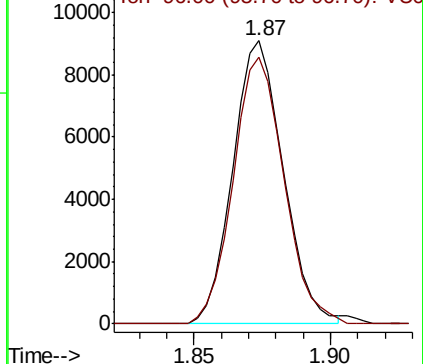
Ion Ratio Lower Upper

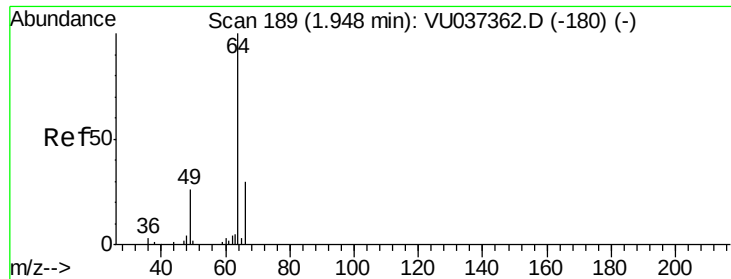
94 100

96 94.3 67.1 124.7



Abundance Ion 94.00 (93.70 to 94.70): VU037361.D (-72) (-)





#8

Chloroethane

Concen: 10.729 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

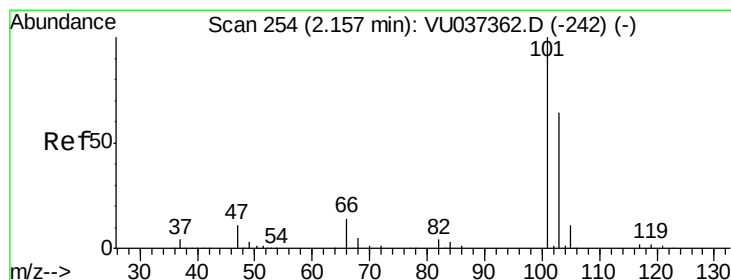
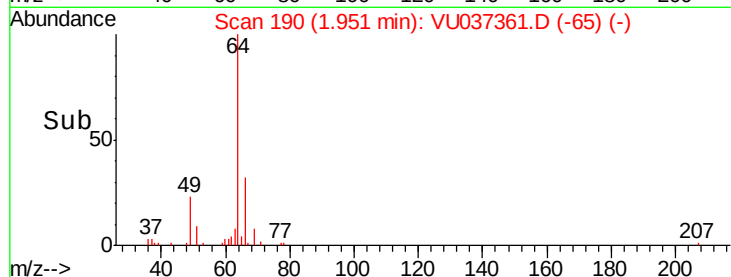
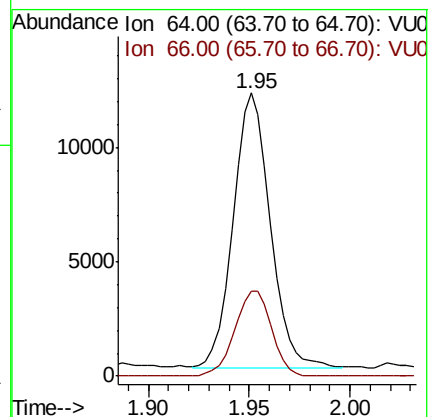
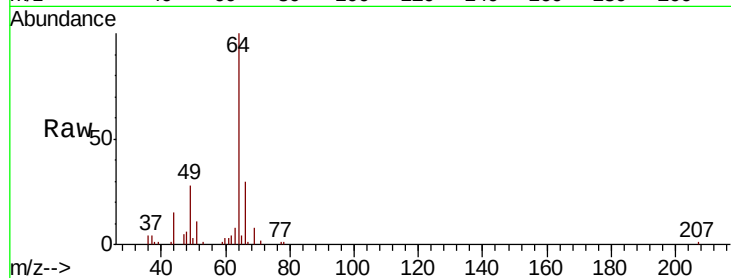
ClientSampled :

Tot Ion: 64 Resp: 15537

Ion Ratio Lower Upper

64 100

66 30.2 21.1 39.3



#9

Trichlorofluoromethane

Concen: 9.983 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037361.D

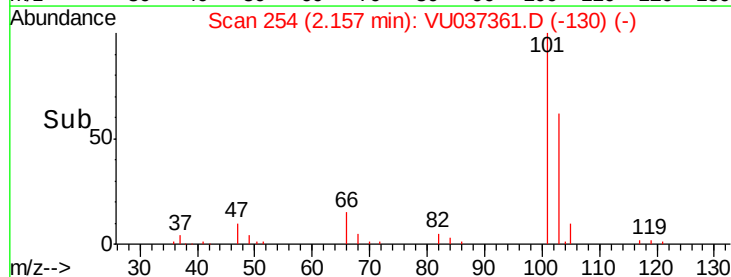
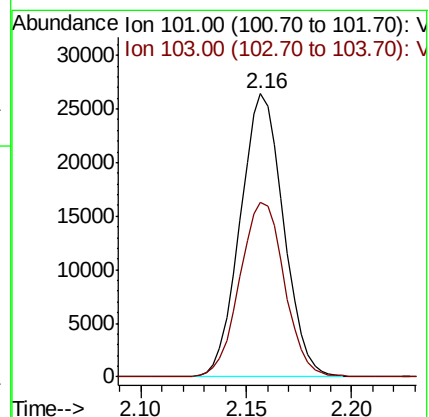
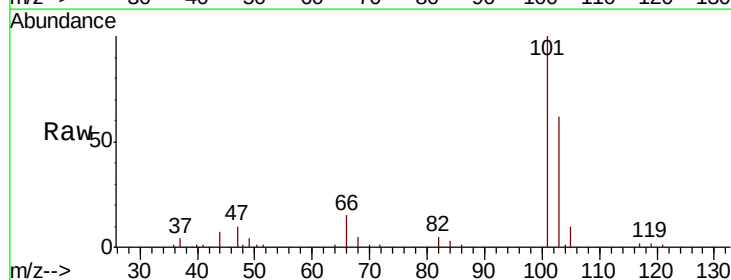
Acq: 21 Mar 2020 18:12

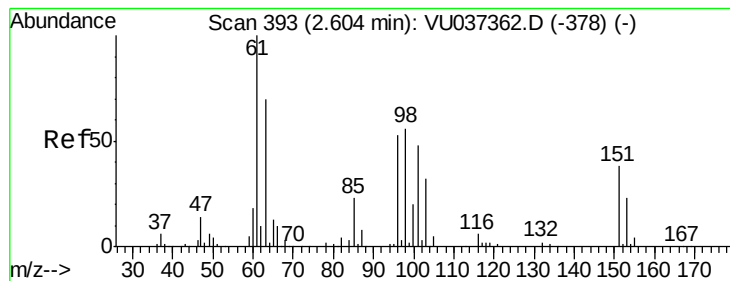
Tgt Ion: 101 Resp: 37662

Ion Ratio Lower Upper

101 100

103 63.8 51.0 76.4





#10

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

Concen: 10.254 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampled :

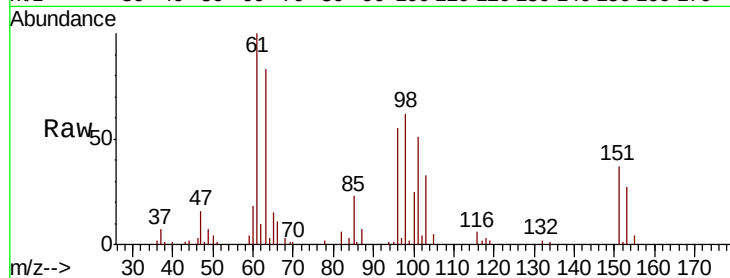
Tot Ion:101 Resp: 17972

Ion Ratio Lower Upper

101 100

85 45.1 37.6 56.4

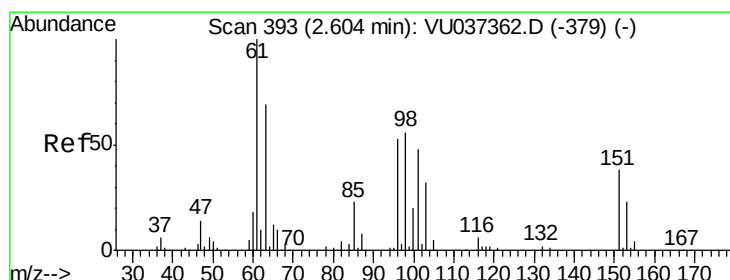
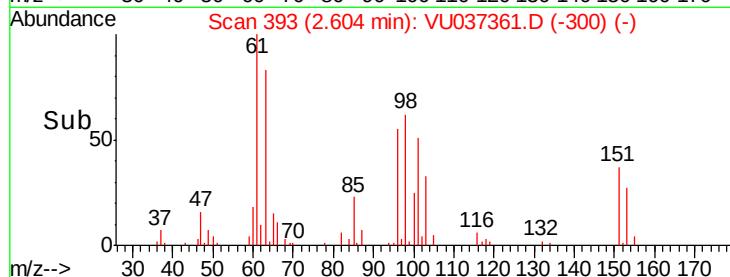
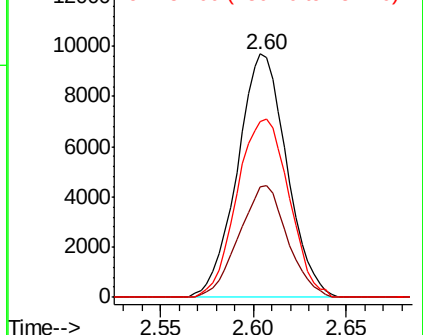
151 77.1 62.2 93.4



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: 10.668 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

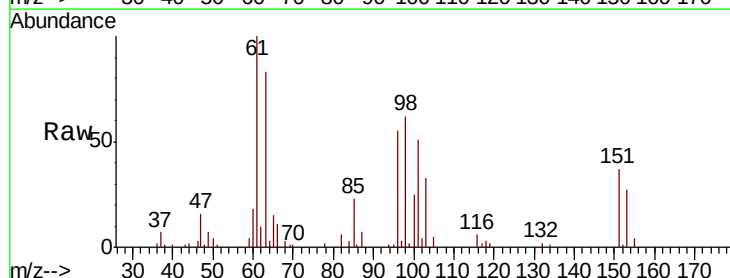
Tgt Ion: 96 Resp: 17114

Ion Ratio Lower Upper

96 100

61 180.5 133.4 247.8

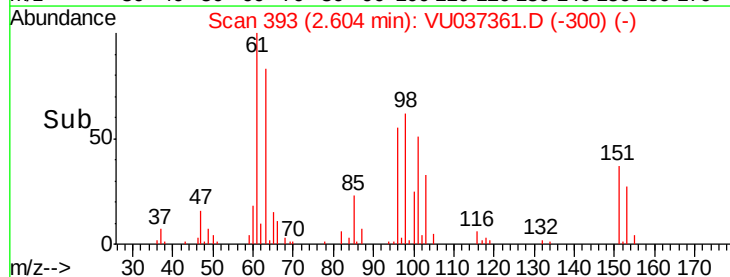
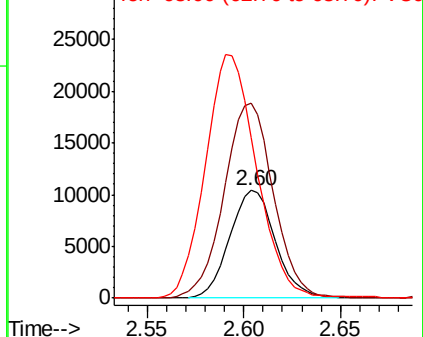
63 149.2 94.4 175.2

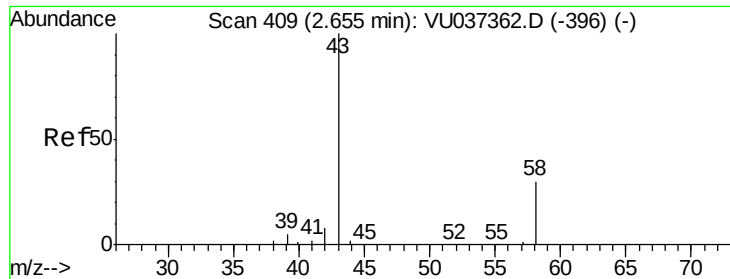


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 14.823 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

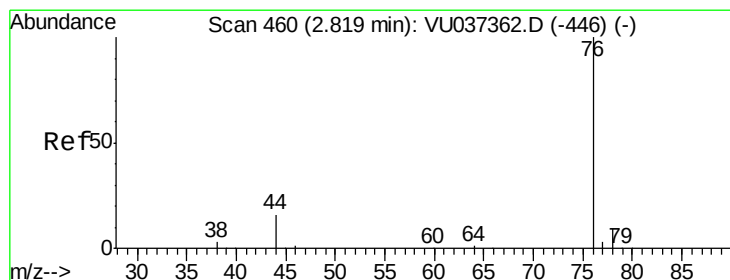
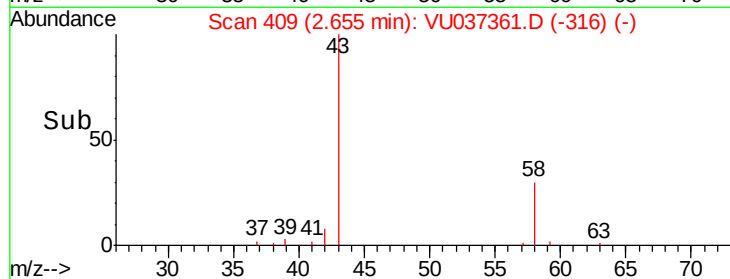
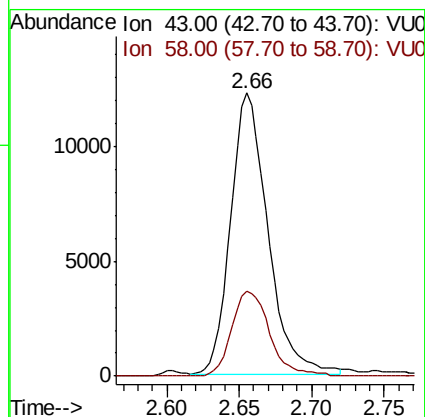
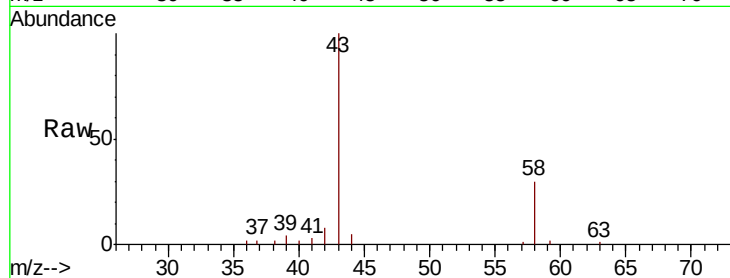
ClientSampled :

Tot Ion: 43 Resp: 21872

Ion Ratio Lower Upper

43 100

58 30.6 0.0 58.0



#14

Carbon disulfide

Concen: 11.485 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037361.D

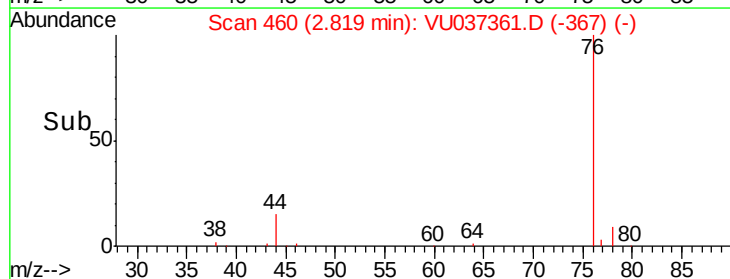
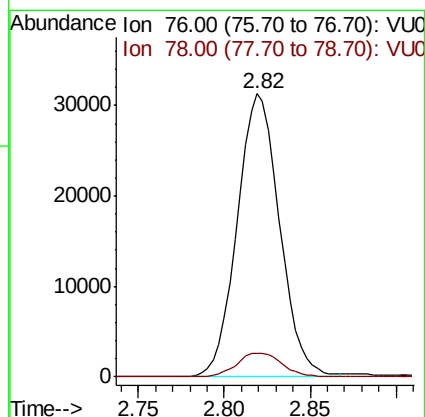
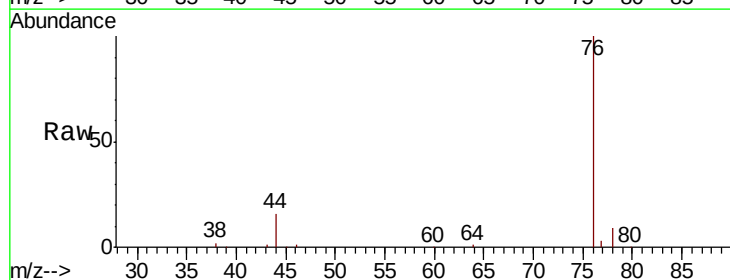
Acq: 21 Mar 2020 18:12

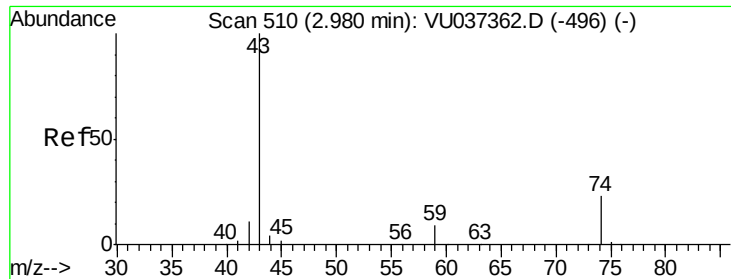
Tgt Ion: 76 Resp: 53795

Ion Ratio Lower Upper

76 100

78 8.5 7.2 10.8

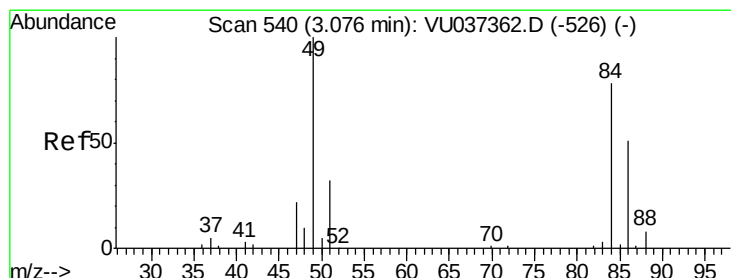
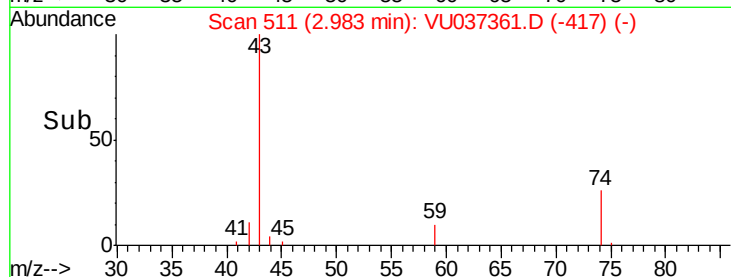
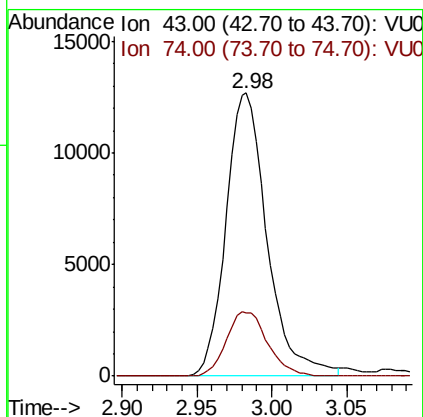
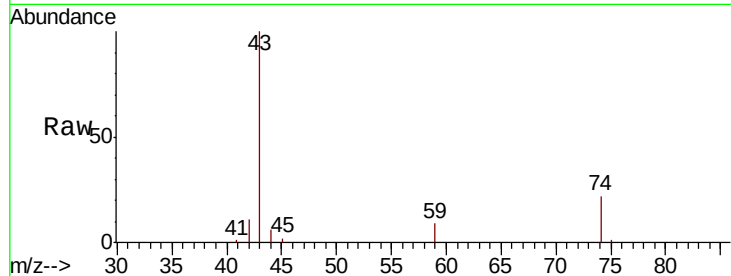




#15
Methvl Acetate
Concen: 9.978 ug/L
RT: 2.98 min Scan# 511
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

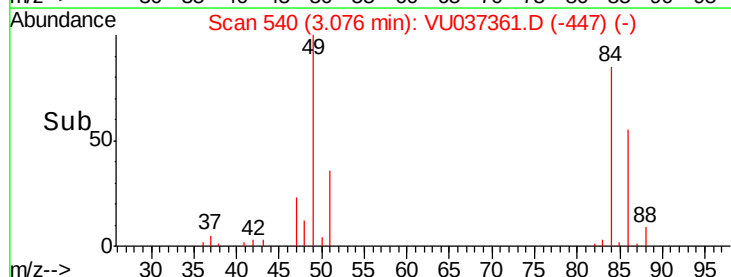
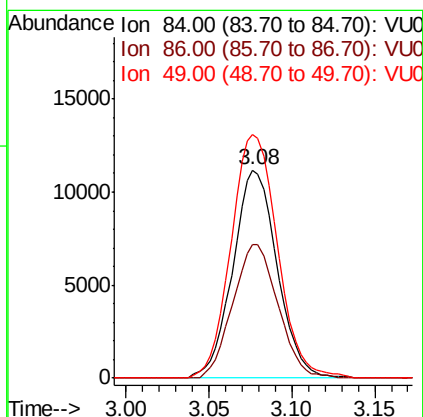
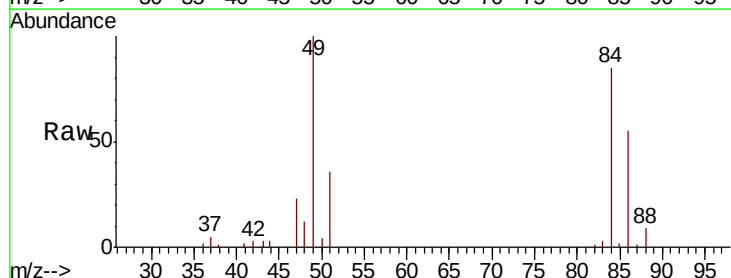
Instrument :
MSVOA_U
ClientSampled :

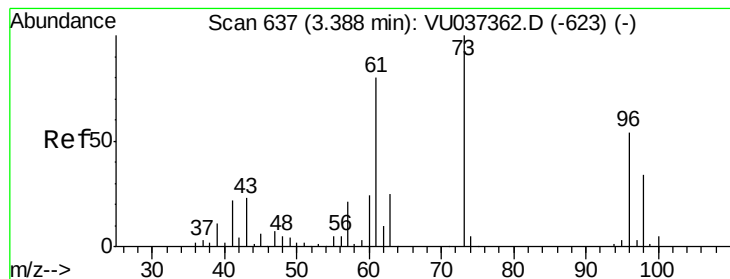
Tot Ion: 43 Resp: 24246
Ion Ratio Lower Upper
43 100
74 22.7 18.2 27.2



#16
Methylene chloride
Concen: 10.509 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

Tgt Ion: 84 Resp: 20762
Ion Ratio Lower Upper
84 100
86 64.2 45.7 84.9
49 117.0 90.0 167.2





#17

trans-1,2-Dichloroethene

Concen: 9.837 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampleId :

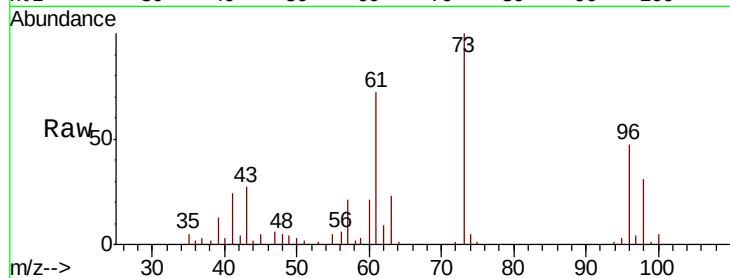
Tot Ion: 96 Resp: 16498

Ion Ratio Lower Upper

96 100

61 151.5 103.3 191.9

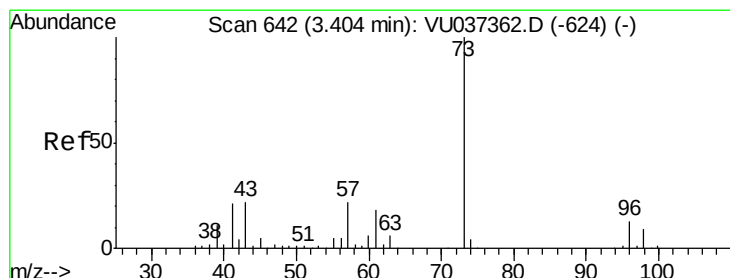
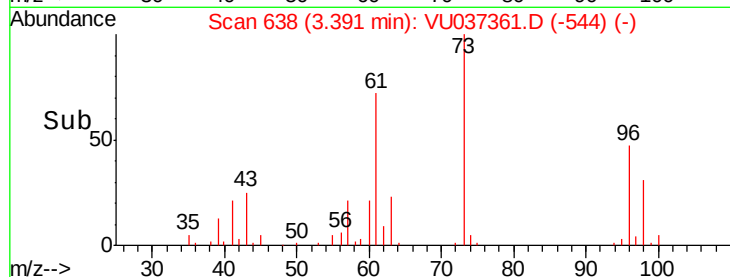
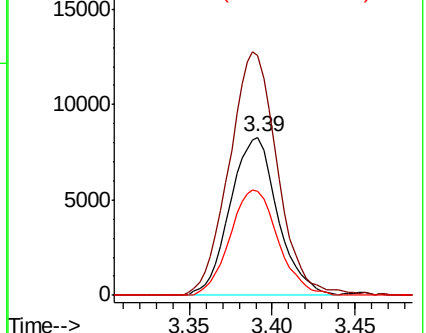
98 66.3 44.5 82.7



Abundance Ion 96.00 (95.70 to 96.70): VU037361.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU037361.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU037361.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 9.414 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

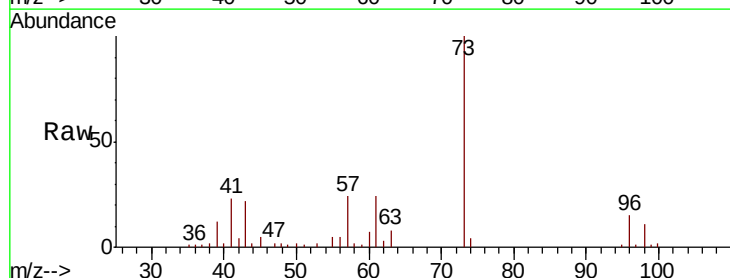
Tgt Ion: 73 Resp: 59827

Ion Ratio Lower Upper

73 100

43 23.5 18.2 27.2

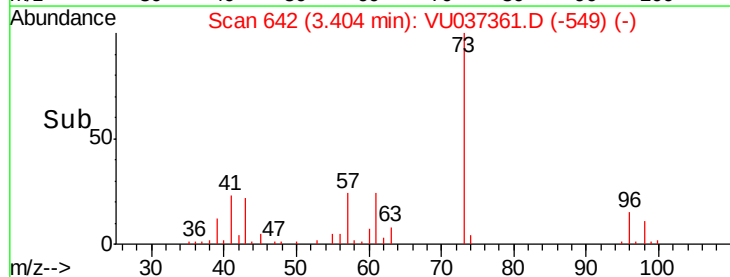
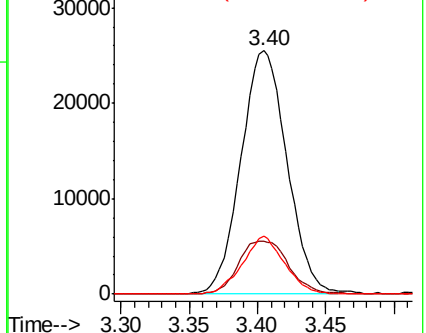
57 21.5 17.4 26.0

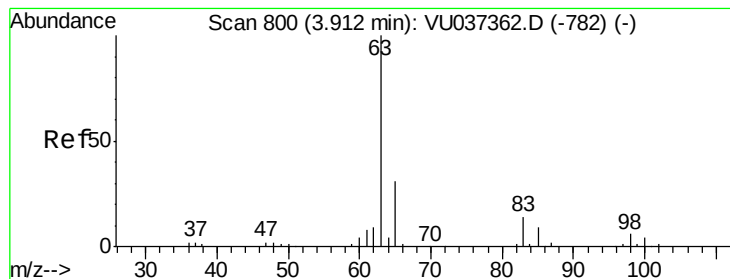


Abundance Ion 73.00 (72.70 to 73.70): VU037361.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037361.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037361.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 10.040 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampleId :

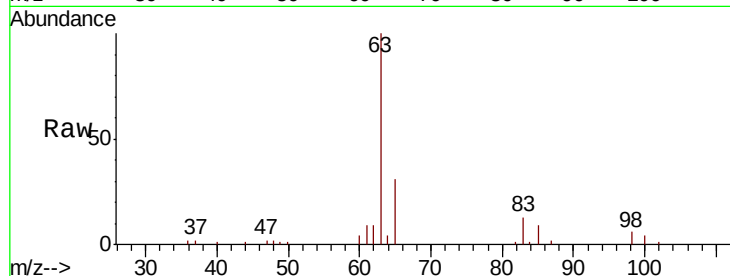
Tot Ion: 63 Resp: 36825

Ion Ratio Lower Upper

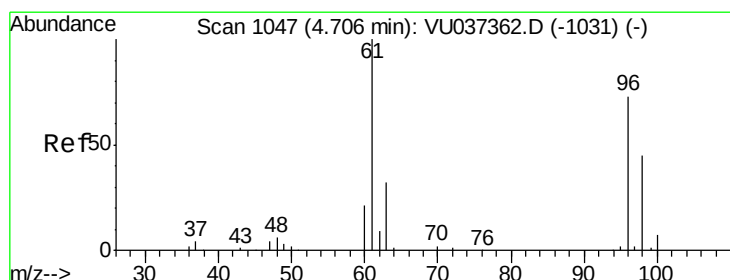
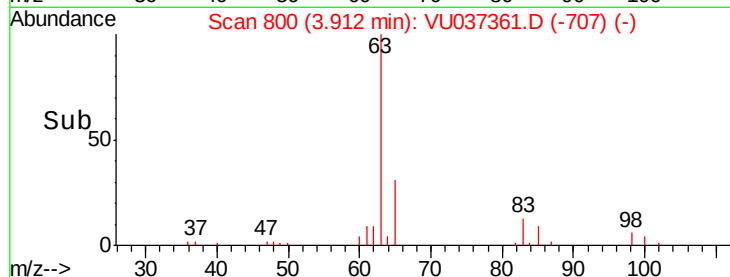
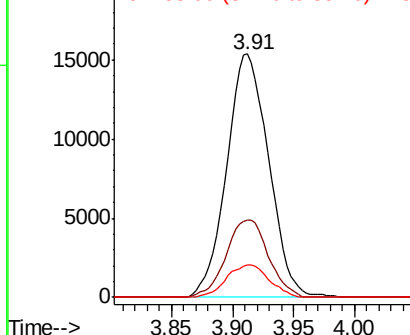
63 100

65 31.5 21.6 40.0

83 13.1 9.8 18.2



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: 9.931 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

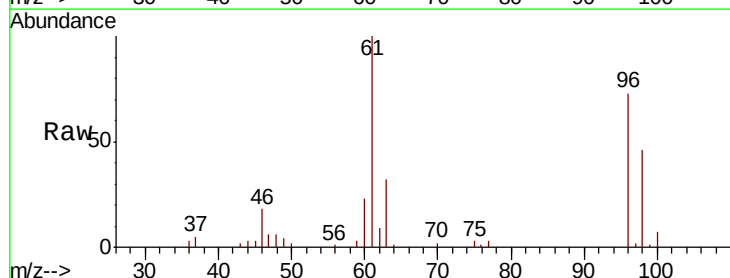
Tgt Ion: 96 Resp: 19886

Ion Ratio Lower Upper

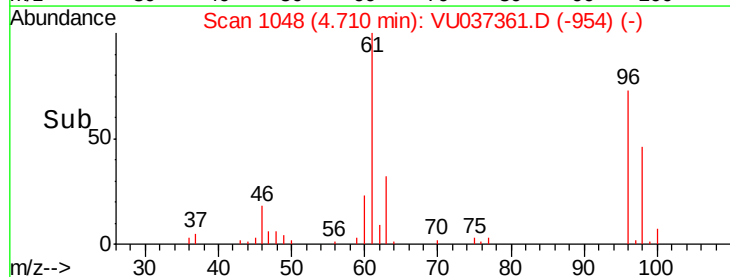
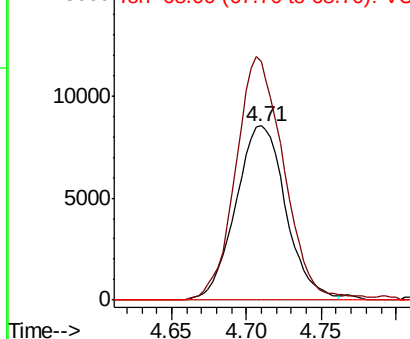
96 100

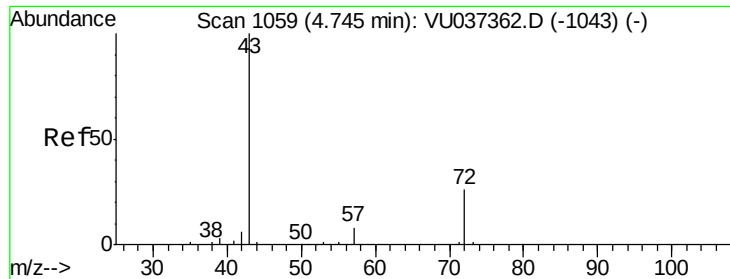
61 136.6 96.2 178.8

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: 17.106 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. 0.01 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

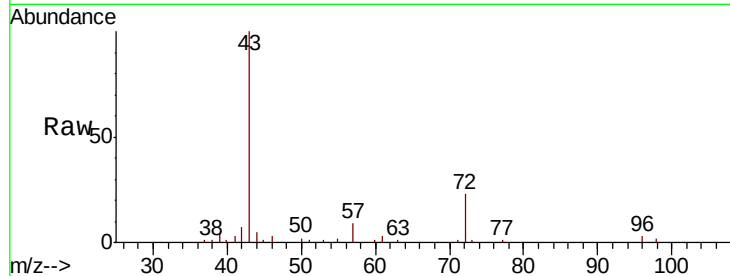
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 32787

Ion Ratio Lower Upper

43 100

72 24.7 13.2 39.5



Abundance Ion 43.00 (42.70 to 43.70): VU037361.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037361.D (-966) (-)

4.75

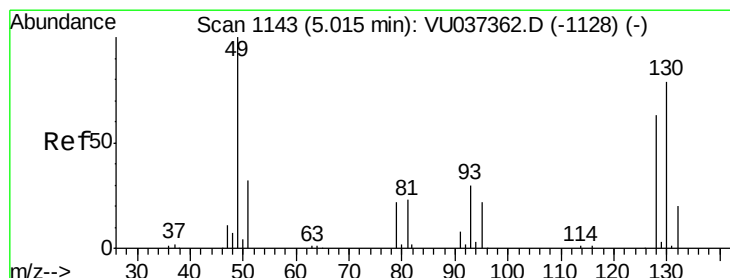
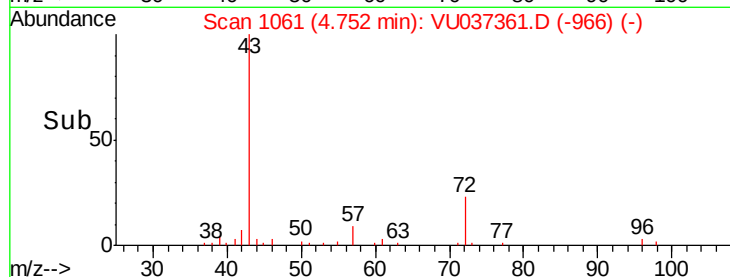
15000

10000

5000

0

Time-->



#23

Bromochloromethane

Concen: 10.840 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Tgt Ion: 128 Resp: 11147

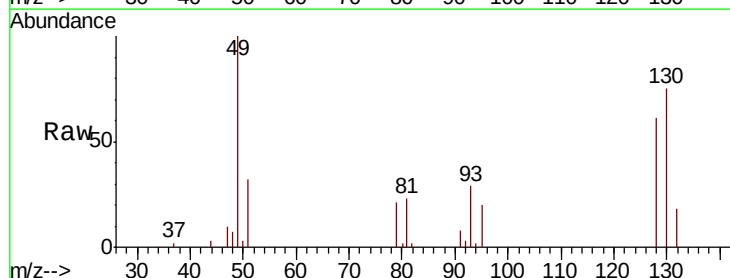
Ion Ratio Lower Upper

128 100

49 163.3 112.1 208.1

130 123.0 88.0 163.4

51 52.4 40.3 60.5



Abundance Ion 128.00 (127.70 to 128.70): VU037361.D (-1050) (-)

Ion 49.00 (48.70 to 49.70): VU037361.D (-1050) (-)

Ion 130.00 (129.70 to 130.70): VU037361.D (-1050) (-)

Ion 51.00 (50.70 to 51.70): VU037361.D (-1050) (-)

5.02

12000

10000

8000

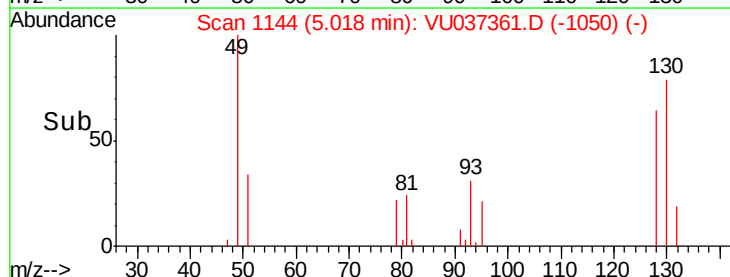
6000

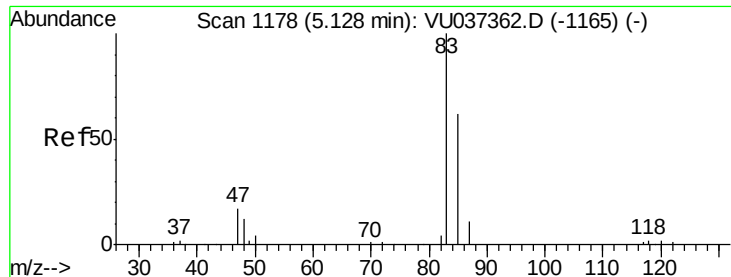
4000

2000

0

Time-->

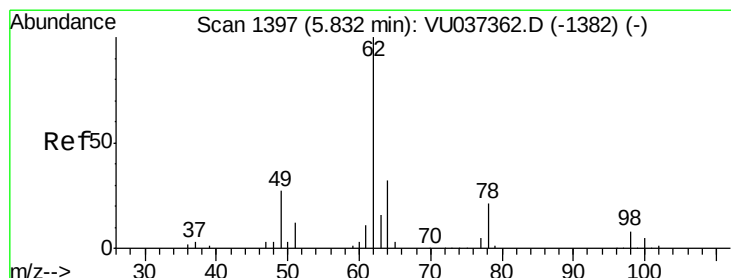
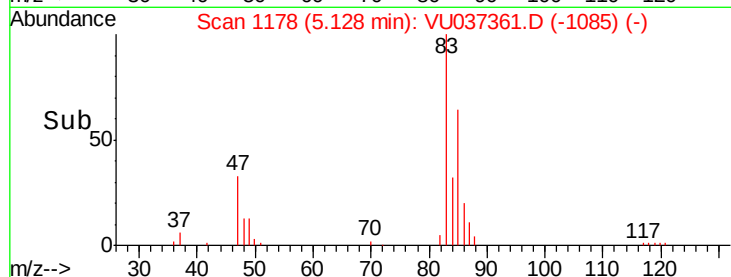
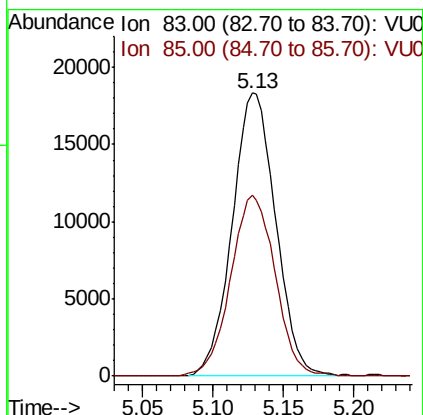
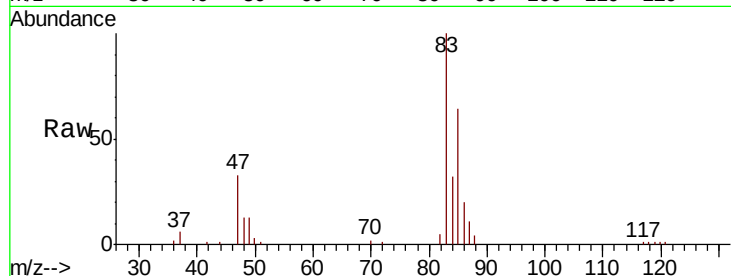




#25
Chloroform
Concen: 9.926 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

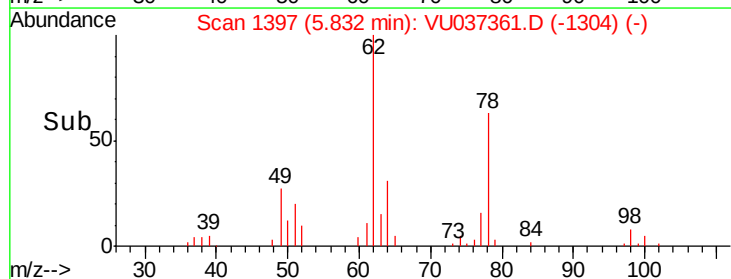
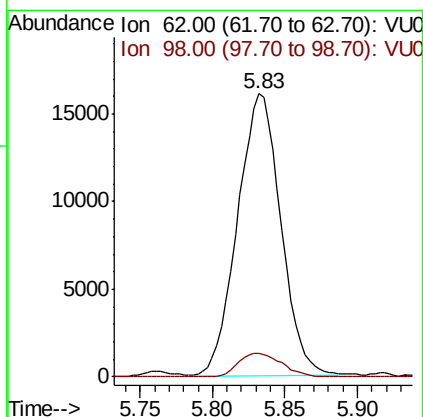
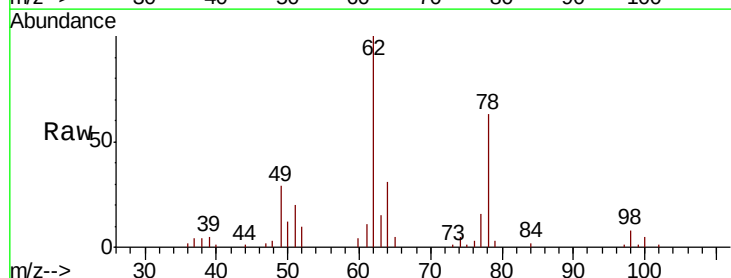
Instrument :
MSVOA_U
ClientSampleId :

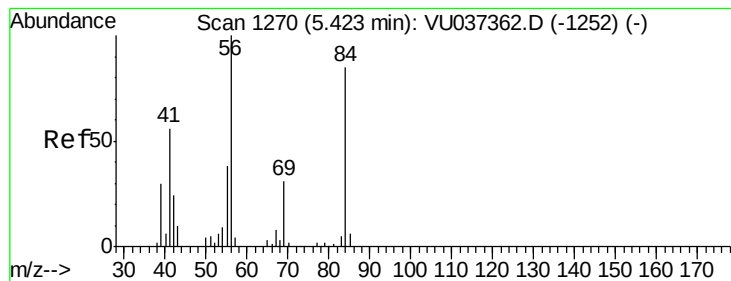
Tot Ion: 83 Resp: 39569
Ion Ratio Lower Upper
83 100
85 64.1 44.9 83.5



#27
1,2-Dichloroethane
Concen: 9.501 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

Tgt Ion: 62 Resp: 33373
Ion Ratio Lower Upper
62 100
98 8.1 6.6 10.0





#29

Cyclohexane

Concen: 9.068 ug/L

RT: 5.42 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampleId :

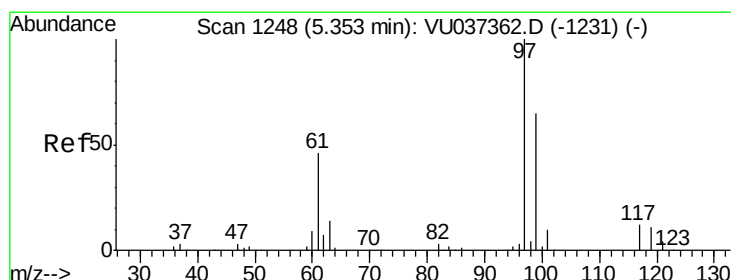
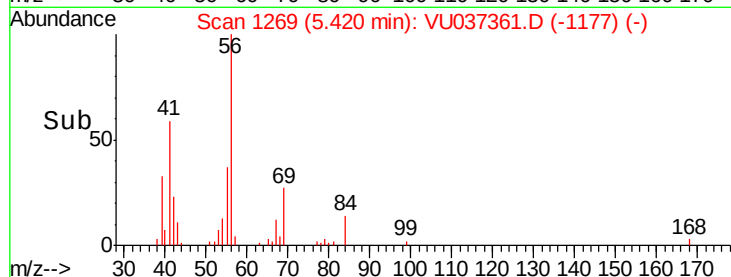
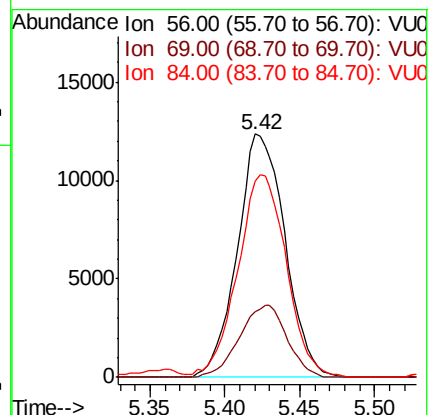
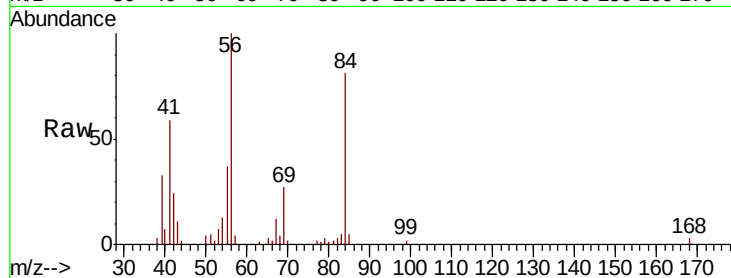
Tot Ion: 56 Resp: 27404

Ion Ratio Lower Upper

56 100

69 29.5 24.8 37.2

84 85.0 68.2 102.4



#30

1,1,1-Trichloroethane

Concen: 10.475 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

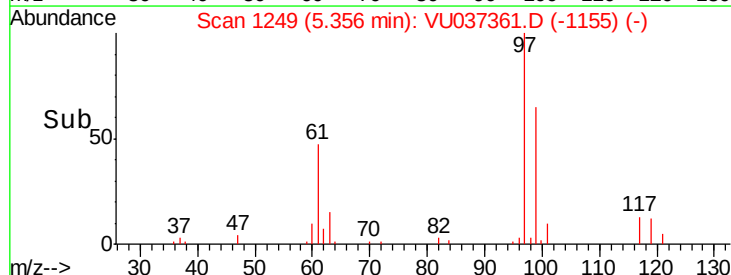
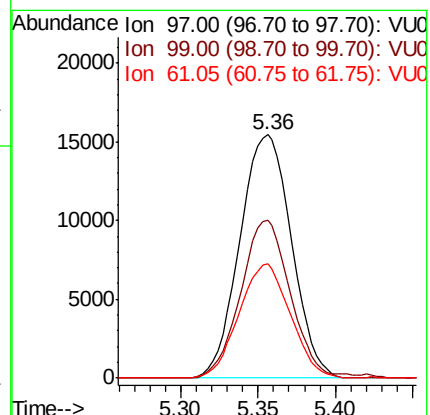
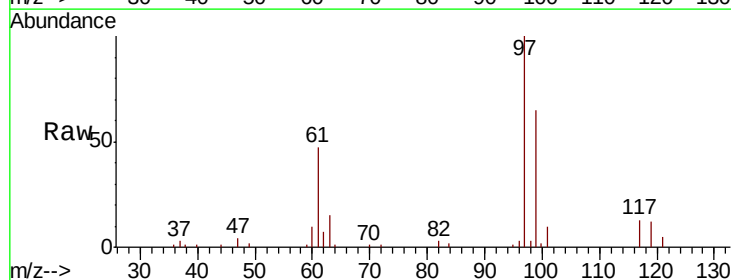
Tgt Ion: 97 Resp: 35854

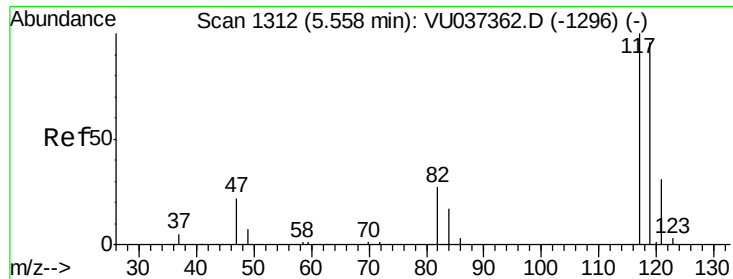
Ion Ratio Lower Upper

97 100

99 62.2 51.7 77.5

61 46.7 36.6 54.8

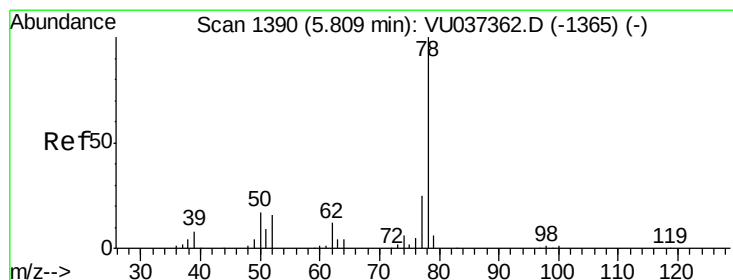
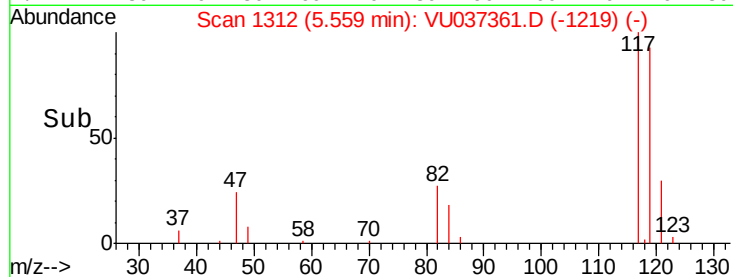
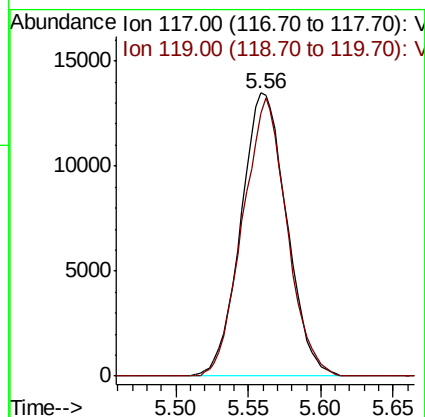
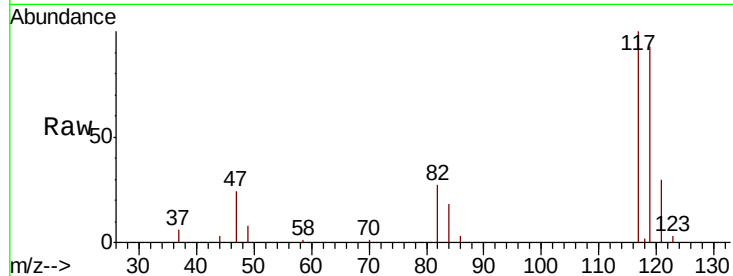




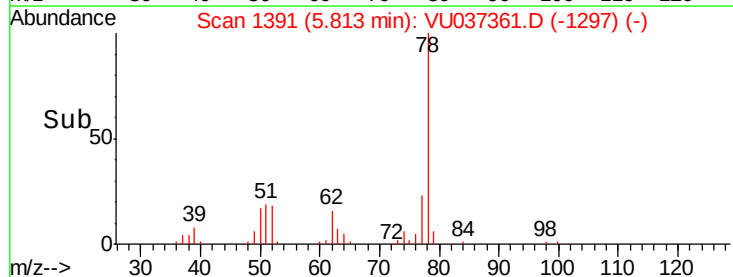
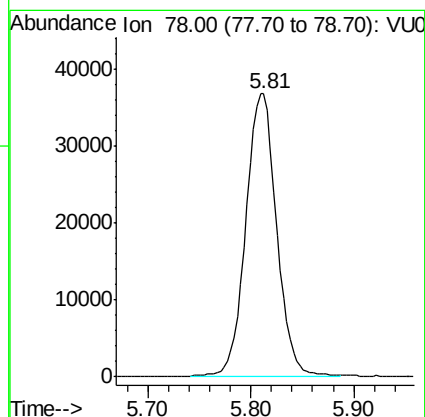
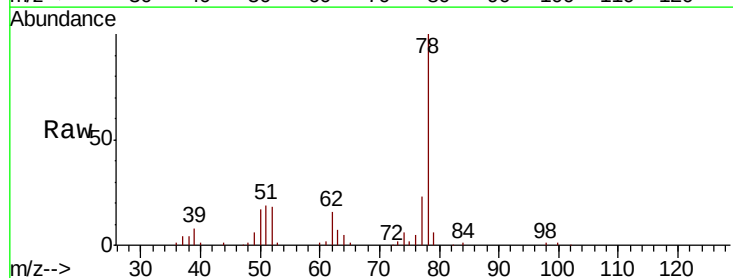
#31
Carbon tetrachloride
Concen: 9.808 ug/L
RT: 5.56 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

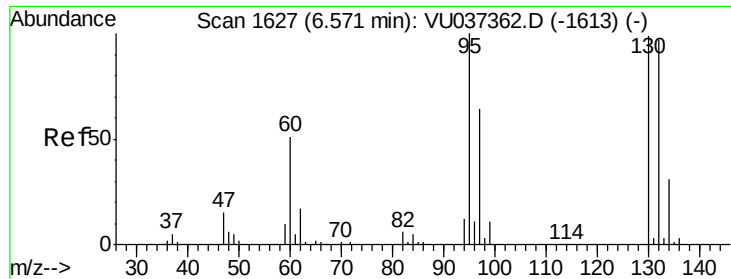
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 29620
Ion Ratio Lower Upper
117 100
119 94.7 77.6 116.4



#33
Benzene
Concen: 10.160 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12
Tgt Ion: 78 Resp: 76694





#34

Trichloroethene

Concen: 9.900 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 19559

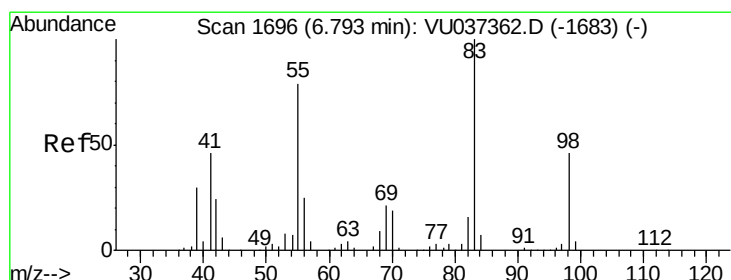
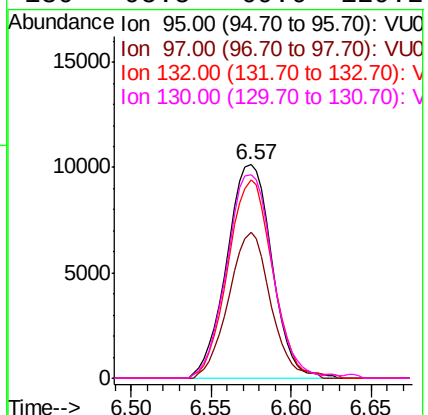
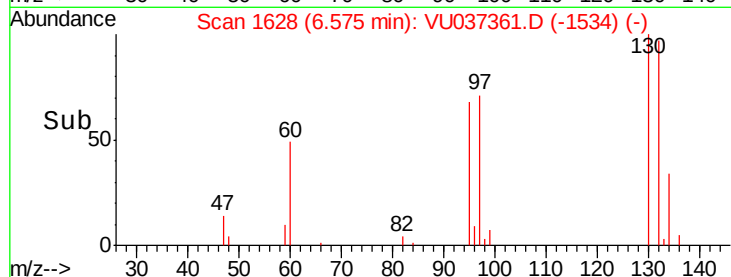
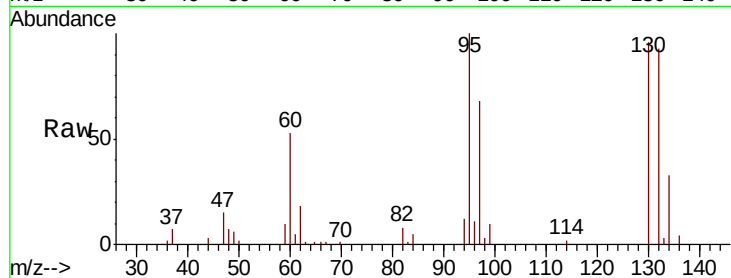
Ion Ratio Lower Upper

95 100

97 68.1 44.9 83.5

132 92.8 68.0 126.2

130 95.5 69.6 129.2



#35

Methylcyclohexane

Concen: 9.480 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

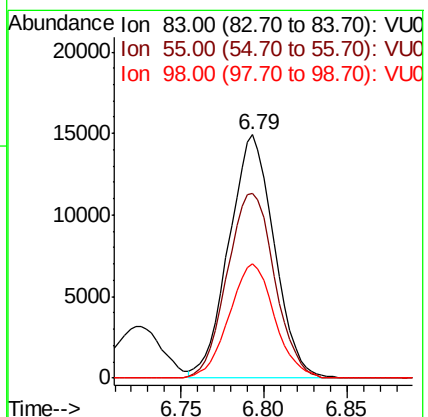
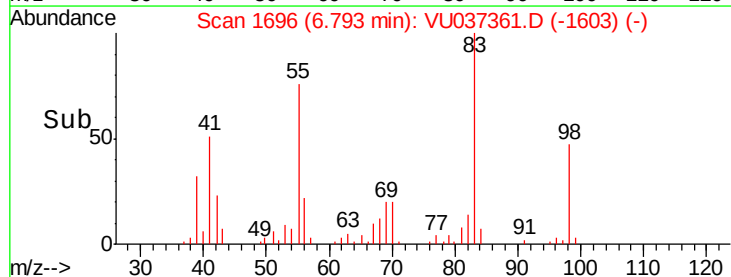
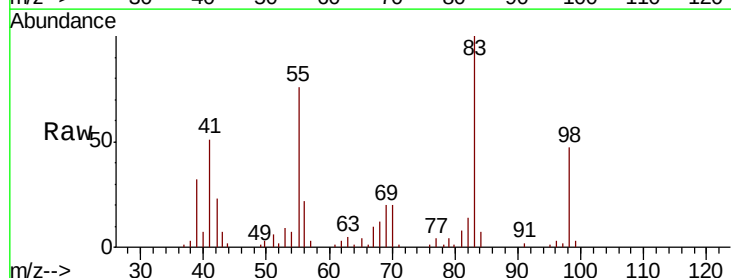
Tgt Ion: 83 Resp: 28327

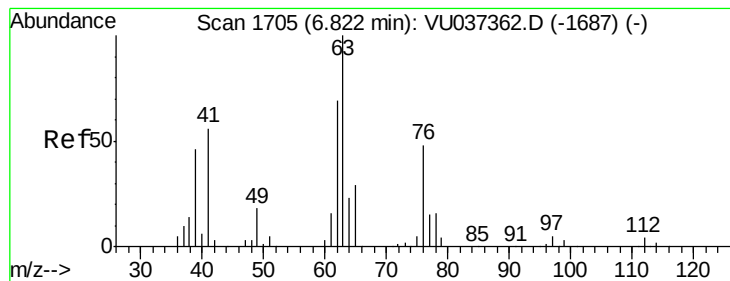
Ion Ratio Lower Upper

83 100

55 79.2 64.3 96.5

98 47.1 36.5 54.7





#37

1,2-Dichloropropane

Concen: 9.640 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

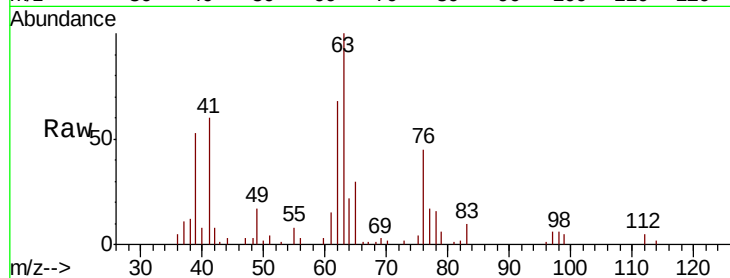
ClientSampleId :

Tot Ion: 63 Resp: 20525

Ion Ratio Lower Upper

63 100

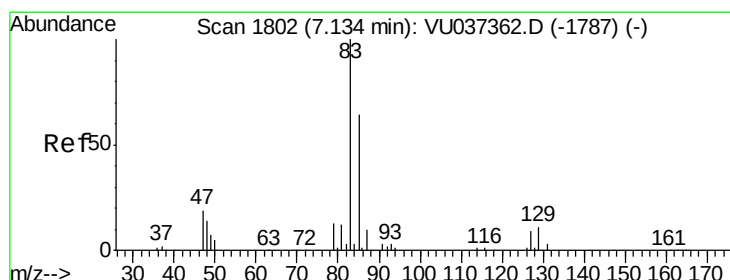
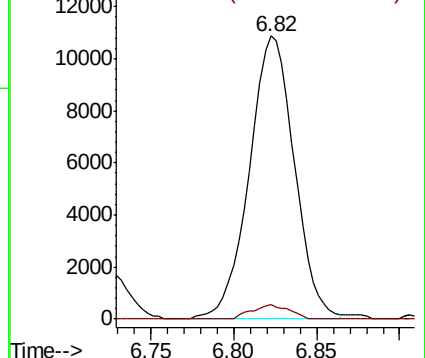
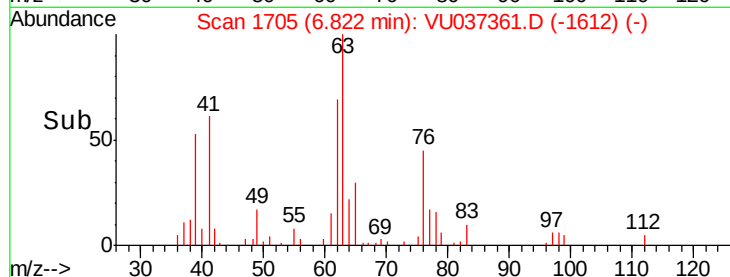
112 4.2 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VU037361.D (-1612) (-)

Ion 112.00 (111.70 to 112.70): VU037361.D (-1612) (-)

Time-->



#38

Bromodichloromethane

Concen: 9.624 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

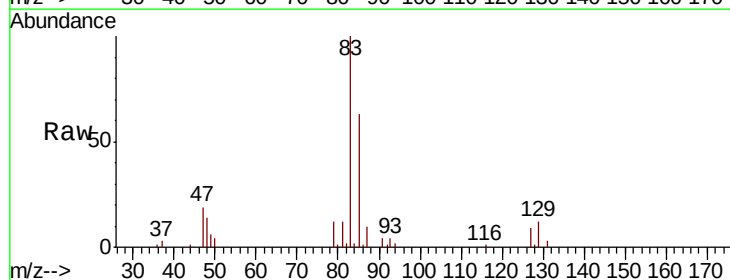
Tgt Ion: 83 Resp: 28691

Ion Ratio Lower Upper

83 100

85 63.1 45.0 83.6

127 8.6 7.0 10.4

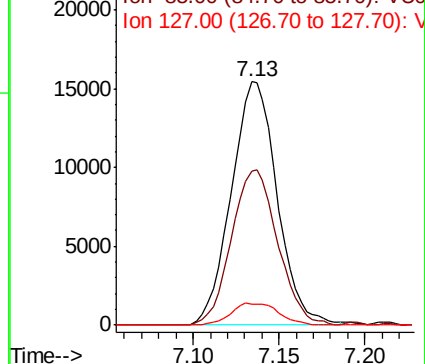
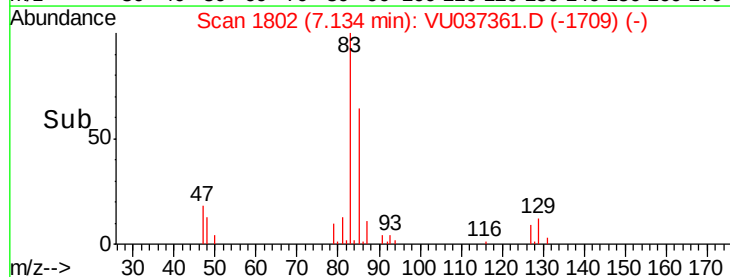


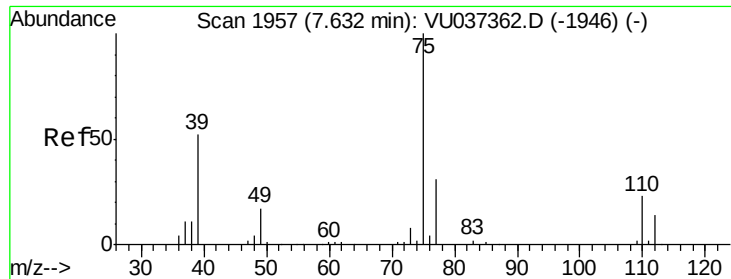
Abundance Ion 83.00 (82.70 to 83.70): VU037361.D (-1709) (-)

Ion 85.00 (84.70 to 85.70): VU037361.D (-1709) (-)

Ion 127.00 (126.70 to 127.70): VU037361.D (-1709) (-)

Time-->

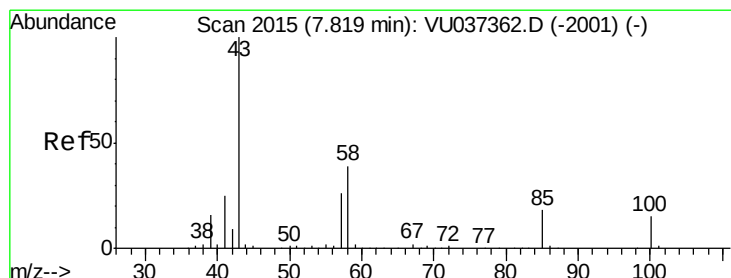
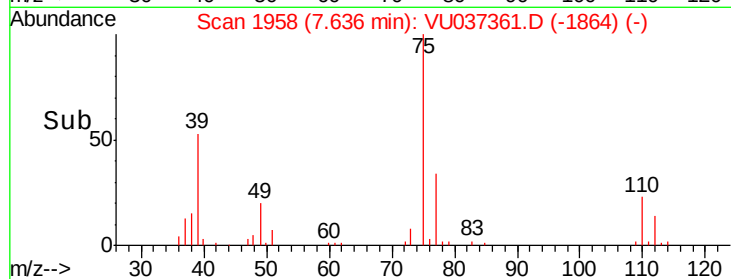
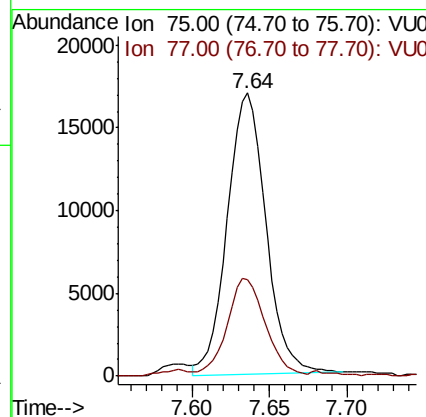
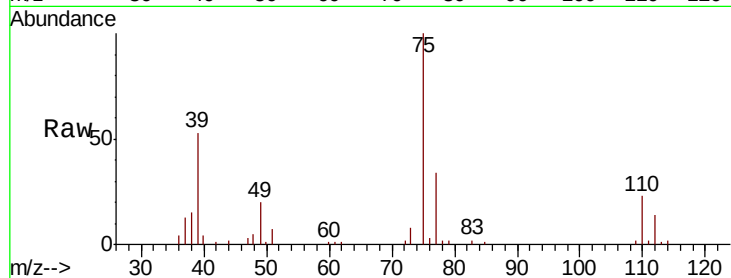




#39
 cis-1,3-Dichloropropene
 Concen: 8.930 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037361.D
 Acq: 21 Mar 2020 18:12

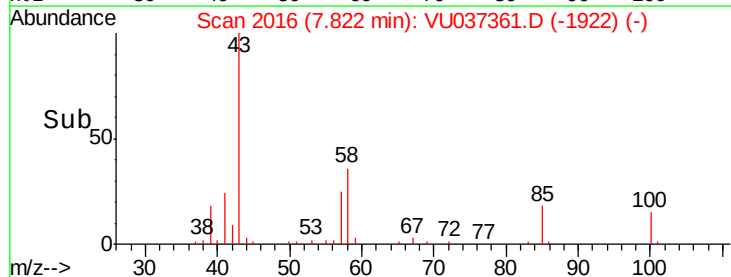
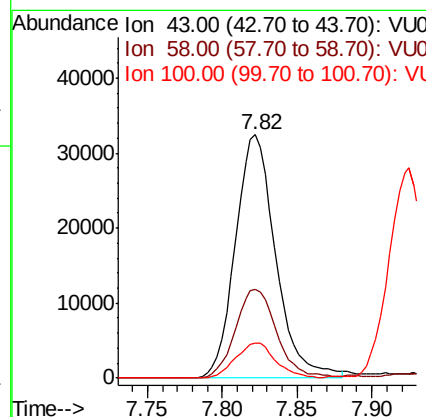
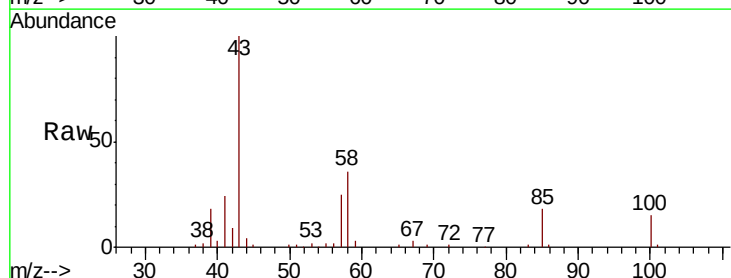
Instrument :
 MSVOA_U
 ClientSampleId :

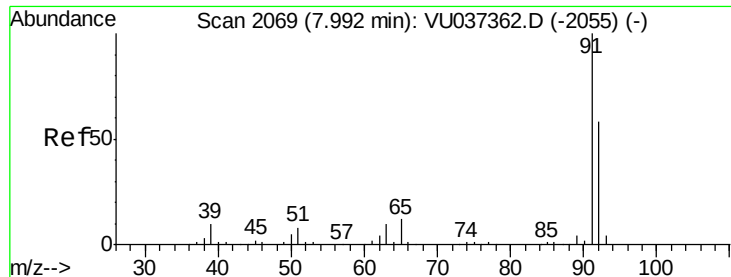
Tot Ion: 75 Resp: 29398
 Ion Ratio Lower Upper
 75 100
 77 34.2 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 17.630 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU037361.D
 Acq: 21 Mar 2020 18:12

Tgt Ion: 43 Resp: 60851
 Ion Ratio Lower Upper
 43 100
 58 37.4 30.7 46.1
 100 14.3 11.8 17.6





#42

Toluene

Concen: 9.445 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

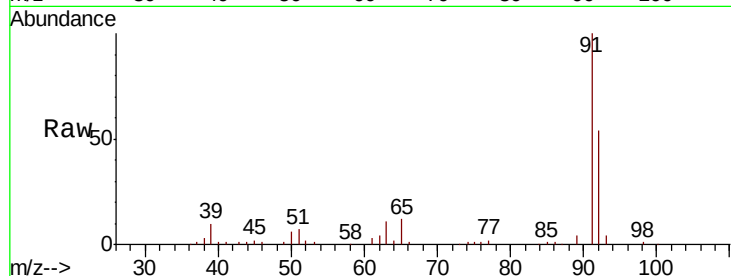
ClientSampleId :

Tot Ion: 91 Resp: 78144

Ion Ratio Lower Upper

91 100

92 54.3 40.5 75.3



Abundance Ion 91.00 (90.70 to 91.70): VU037362.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU037362.D (-2055) (-)

7.99

50000

40000

30000

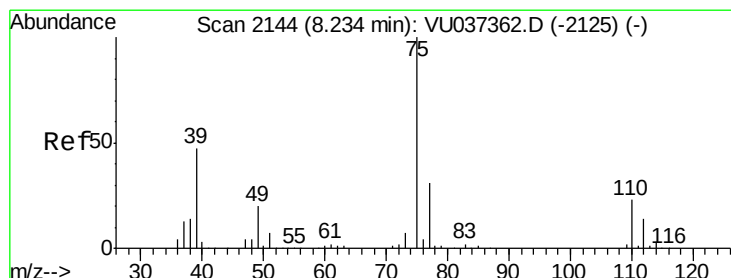
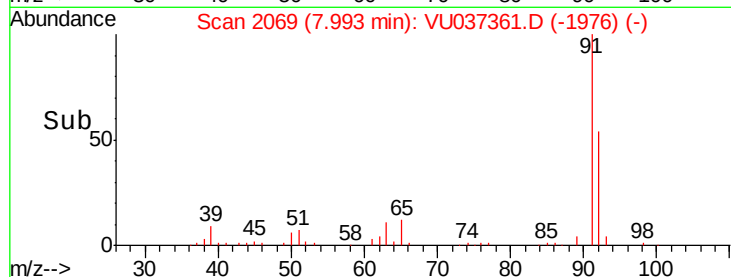
20000

10000

0

7.95 8.00 8.05

Time-->



#44

trans-1,3-Dichloropropene

Concen: 9.832 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037361.D

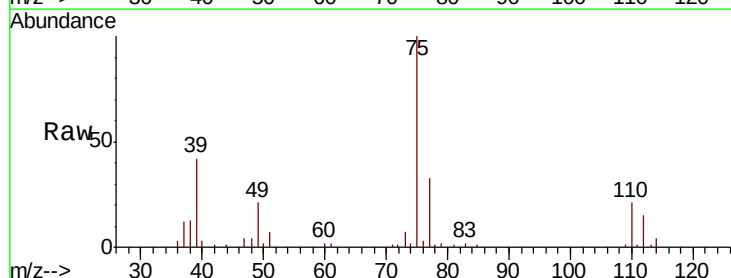
Acq: 21 Mar 2020 18:12

Tgt Ion: 75 Resp: 31185

Ion Ratio Lower Upper

75 100

77 32.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU037362.D (-2125) (-)

Ion 77.00 (76.70 to 77.70): VU037362.D (-2125) (-)

8.24

20000

15000

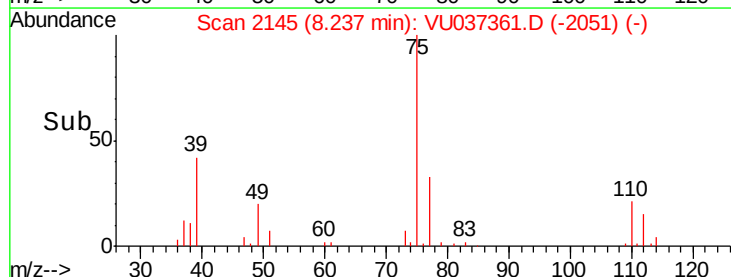
10000

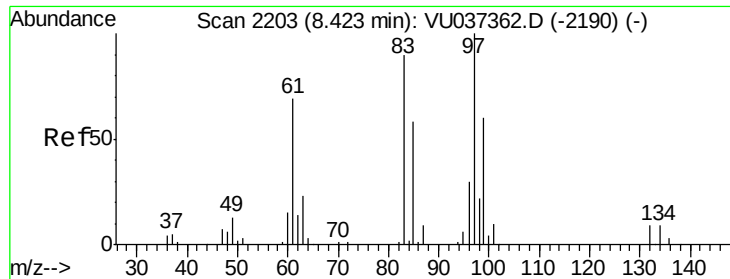
5000

0

8.15 8.20 8.25 8.30

Time-->

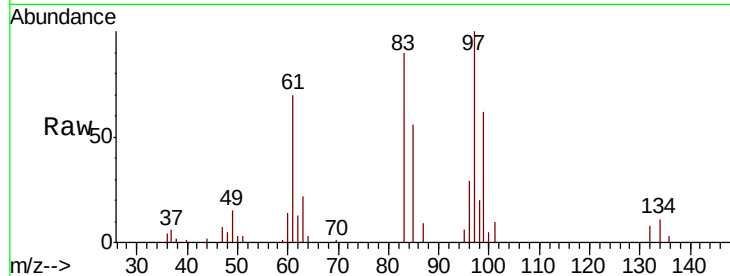




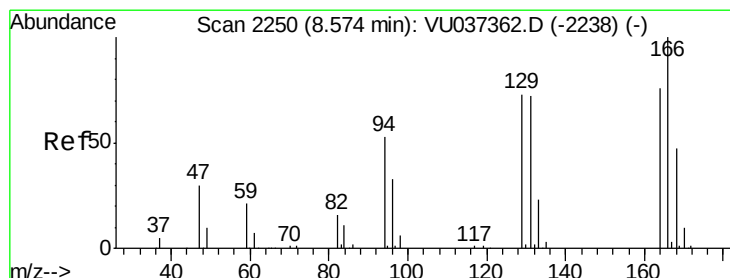
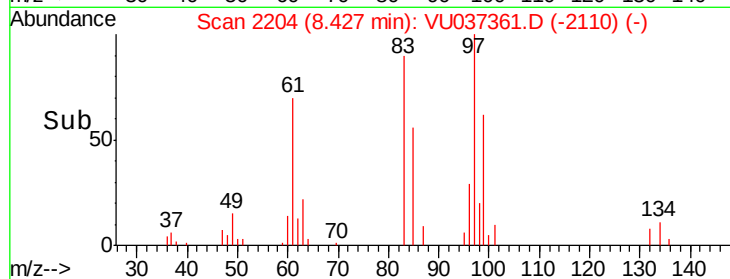
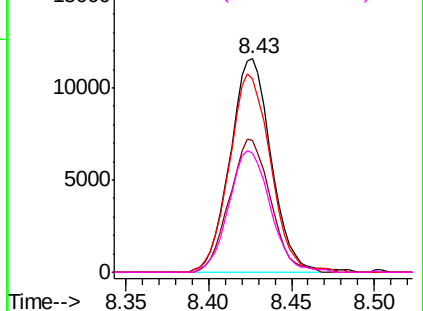
#45
1,1,2-Trichloroethane
Concen: 10.196 ug/L
RT: 8.43 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	97	Resp:	19998
Ion	Ratio	Lower	Upper
97	100		
99	62.0	42.1	78.1
83	90.3	62.7	116.5
85	55.8	40.7	75.5

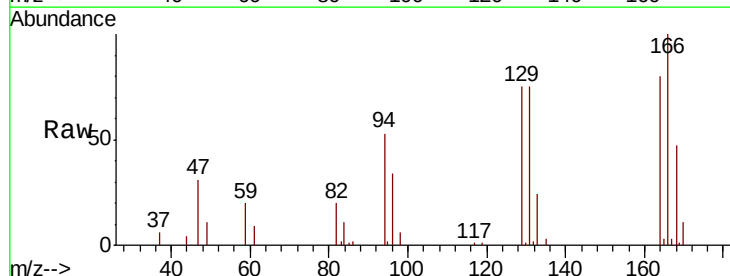


Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

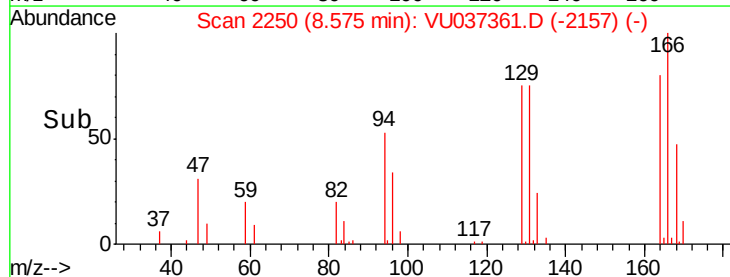
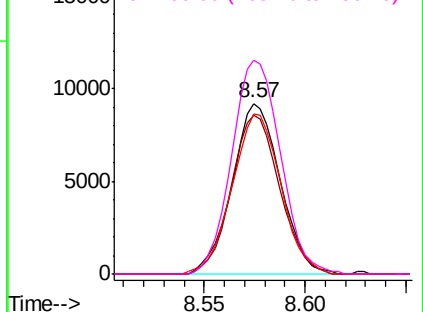


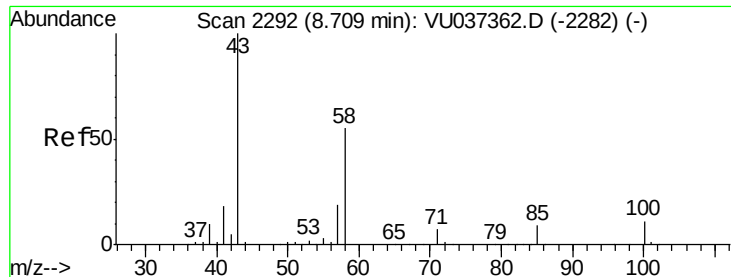
#46
Tetrachloroethene
Concen: 10.365 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

Tgt Ion:	164	Resp:	15374
Ion	Ratio	Lower	Upper
164	100		
129	93.4	67.1	124.5
131	94.0	65.8	122.2
166	125.2	91.6	170.2



Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

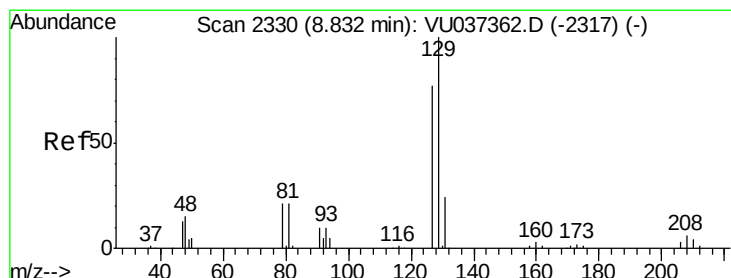
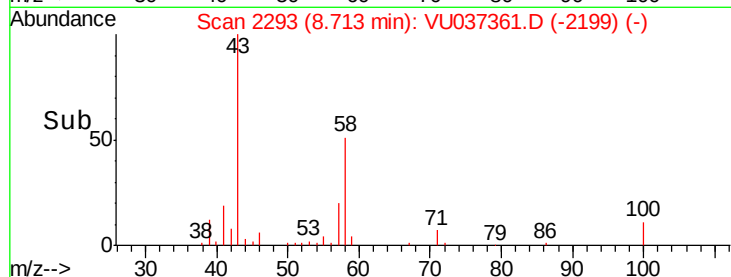
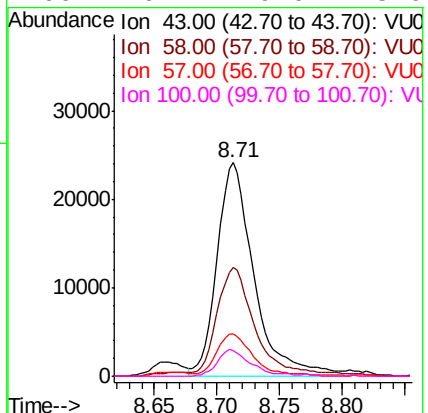
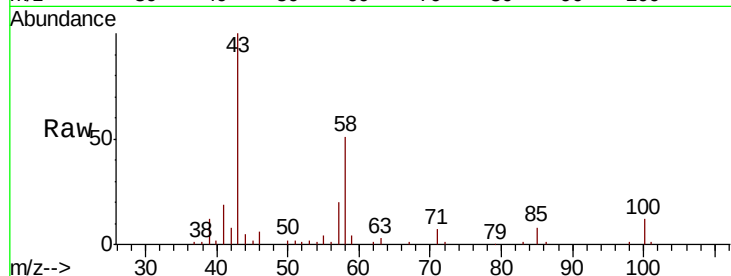




#48
2-Hexanone
Concen: 18.248 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

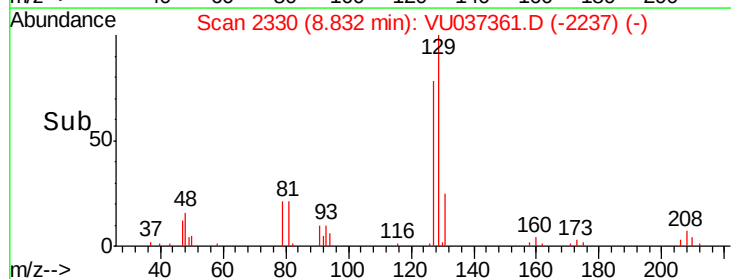
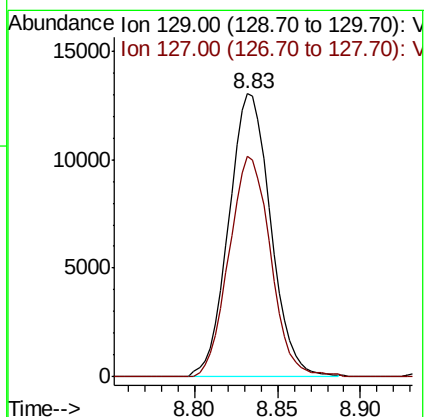
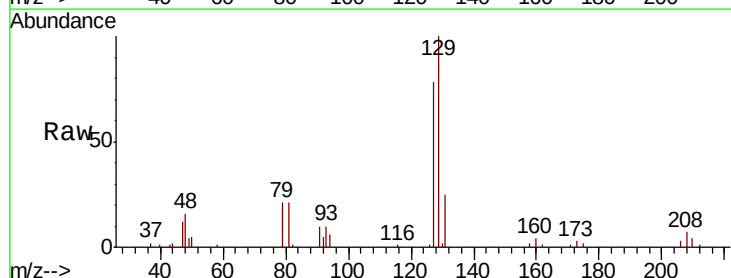
Instrument :
MSVOA_U
ClientSampled :

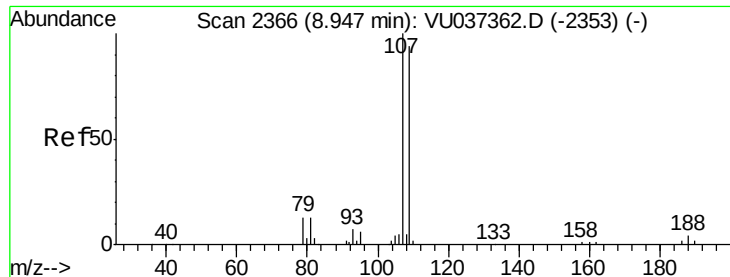
Tot Ion: 43 Resp: 49489
Ion Ratio Lower Upper
43 100
58 48.7 43.8 65.6
57 18.5 14.9 22.3
100 10.7 9.0 13.6



#49
Dibromochloromethane
Concen: 9.910 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

Tgt Ion: 129 Resp: 22926
Ion Ratio Lower Upper
129 100
127 77.9 54.0 100.2

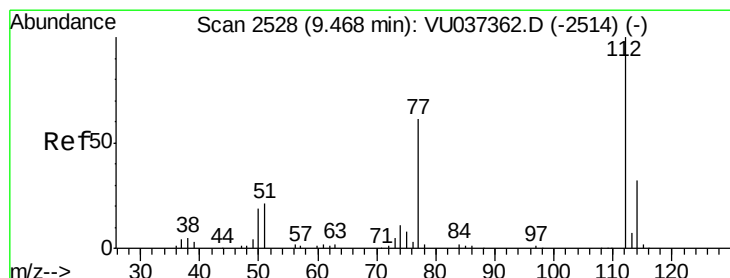
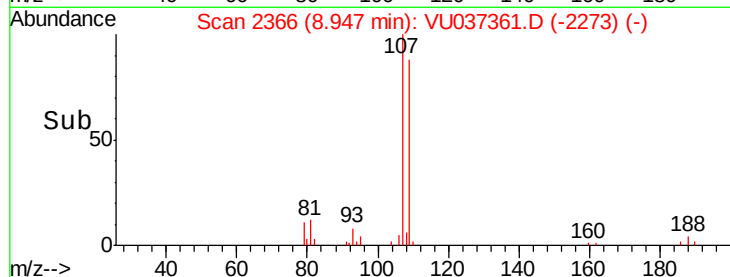
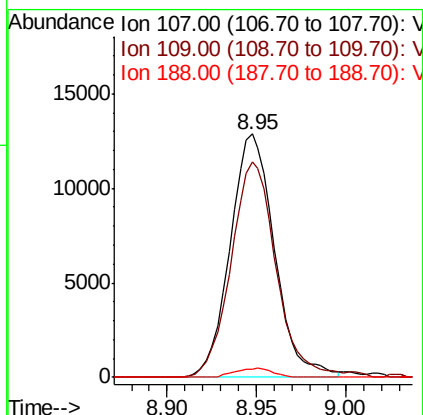
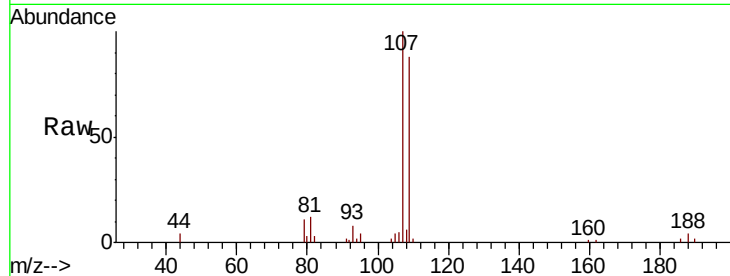




#50
1,2-Dibromoethane
Concen: 10.517 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

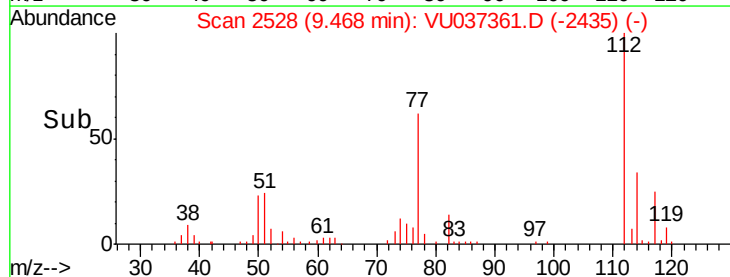
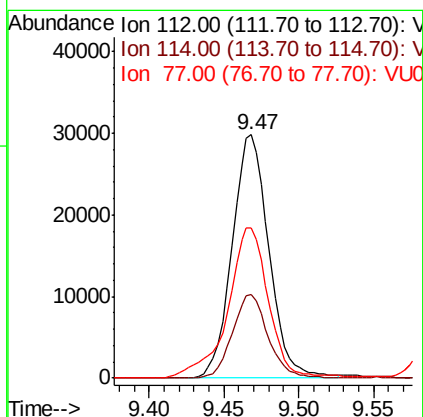
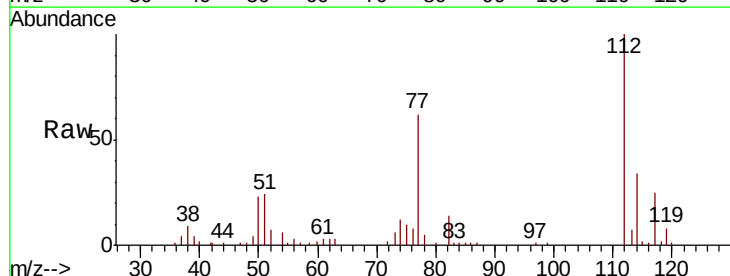
Instrument :
MSVOA_U
ClientSampleId :

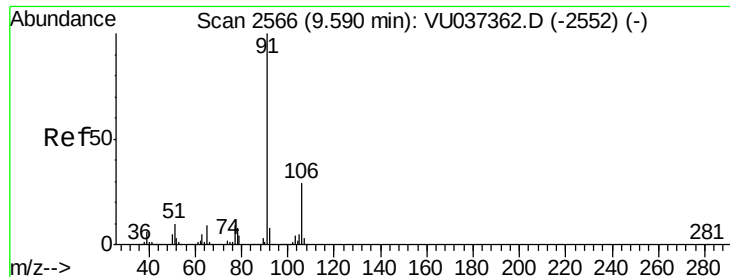
Tot Ion:107 Resp: 22330
Ion Ratio Lower Upper
107 100
109 88.4 66.1 122.8
188 3.5 3.2 4.8



#51
Chlorobenzene
Concen: 9.785 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. 0.00 min
Lab File: VU037361.D
Acq: 21 Mar 2020 18:12

Tgt Ion:112 Resp: 51057
Ion Ratio Lower Upper
112 100
114 34.5 22.1 41.1
77 61.5 49.6 74.4





#52

Ethylbenzene

Concen: 8.839 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

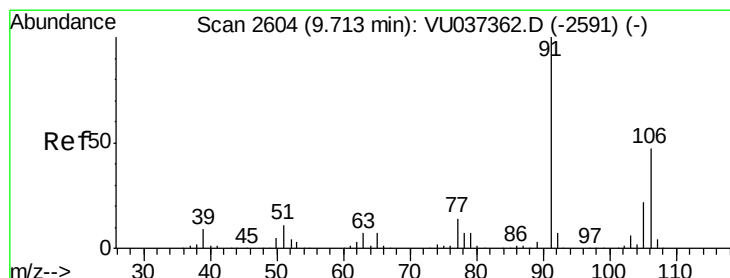
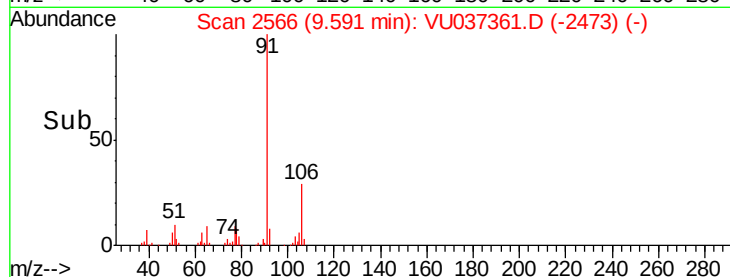
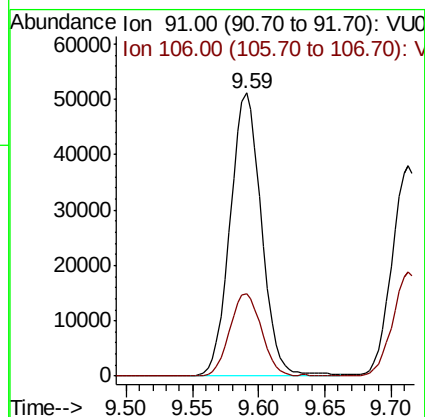
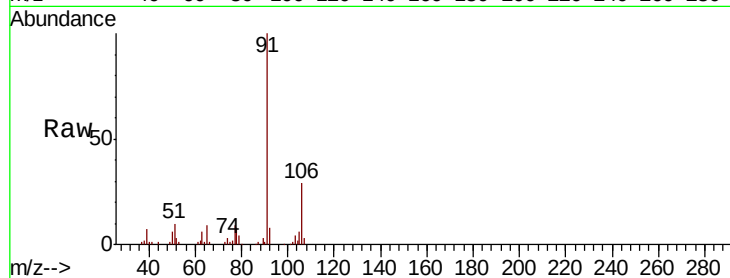
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 84025

Ion Ratio Lower Upper

91 100

106 29.1 20.5 38.1



#53

m,p-Xylene

Concen: 9.324 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037361.D

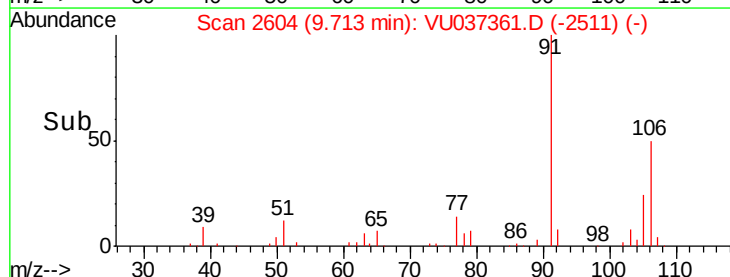
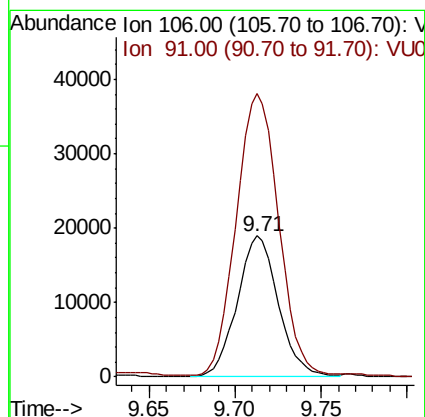
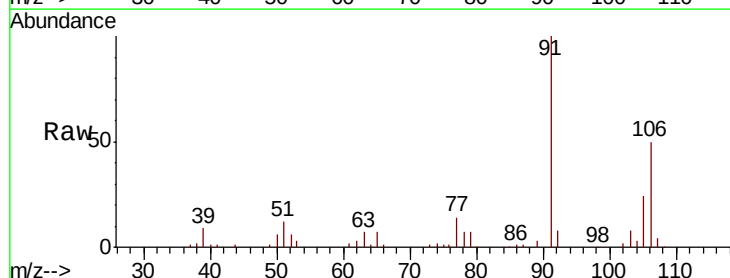
Acq: 21 Mar 2020 18:12

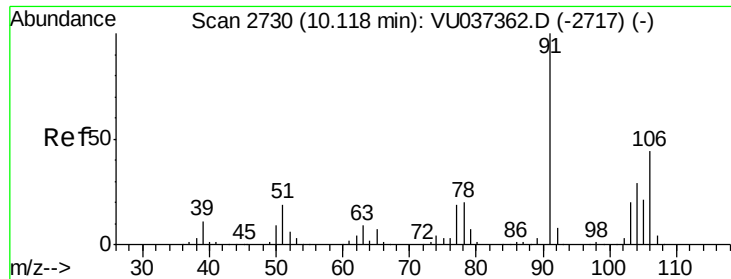
Tgt Ion: 106 Resp: 31510

Ion Ratio Lower Upper

106 100

91 201.2 149.7 277.9





#54

o-xylene

Concen: 9.444 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

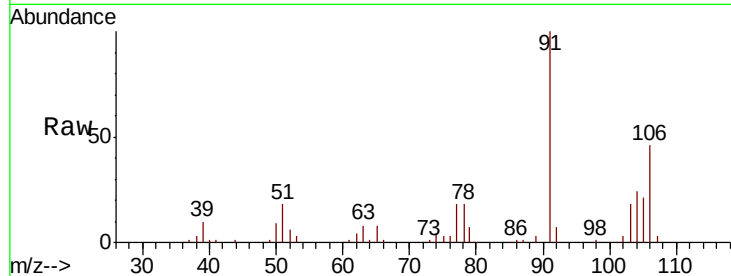
ClientSampleId :

Tot Ion:106 Resp: 31606

Ion Ratio Lower Upper

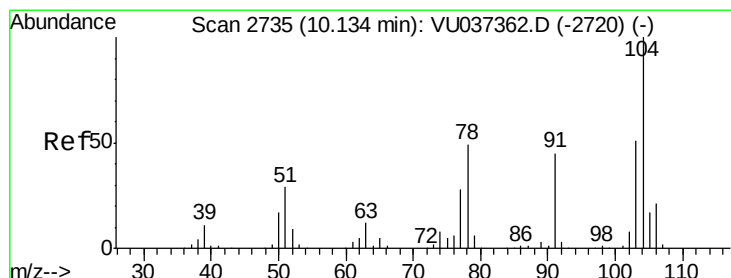
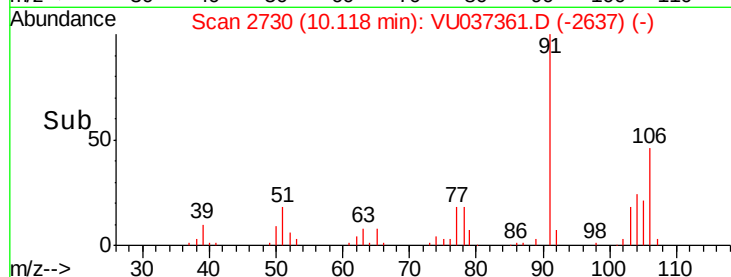
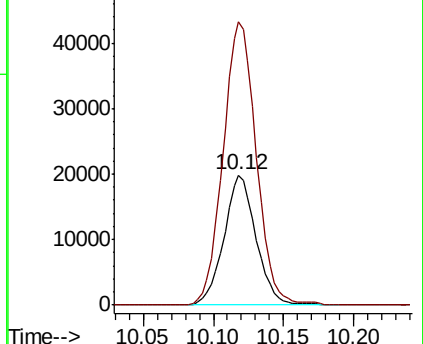
106 100

91 217.5 157.6 292.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 8.785 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037361.D

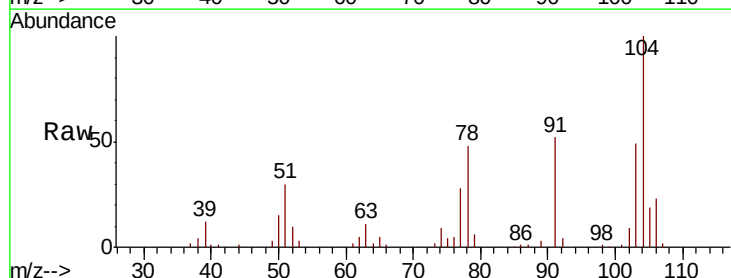
Acq: 21 Mar 2020 18:12

Tgt Ion:104 Resp: 49868

Ion Ratio Lower Upper

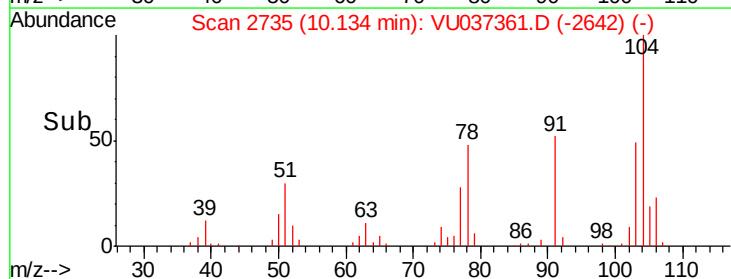
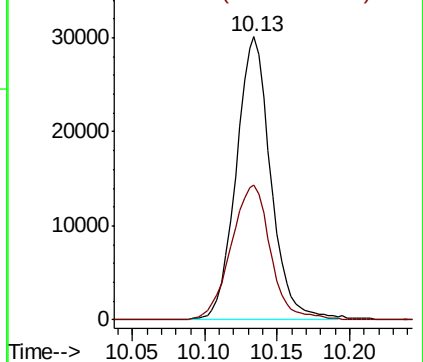
104 100

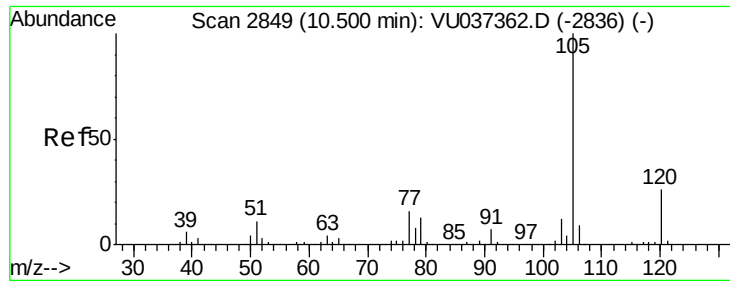
78 47.7 34.2 63.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 8.826 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampleId :

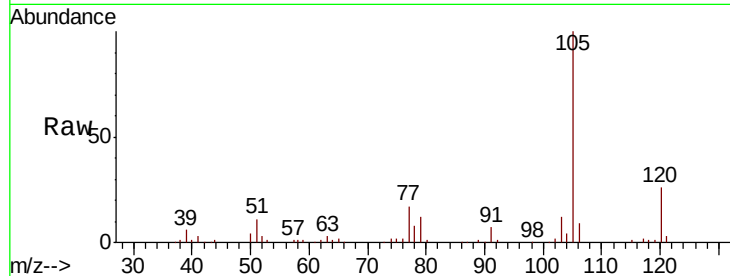
Tot Ion:105 Resp: 81785

Ion Ratio Lower Upper

105 100

120 25.3 20.8 31.2

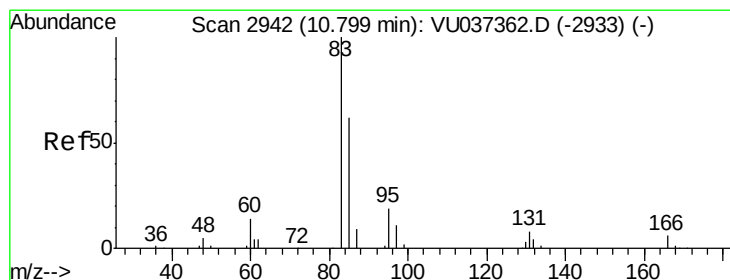
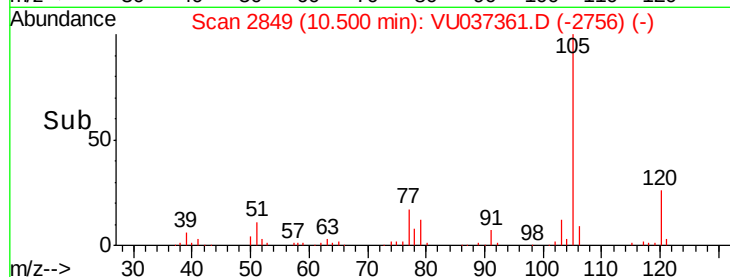
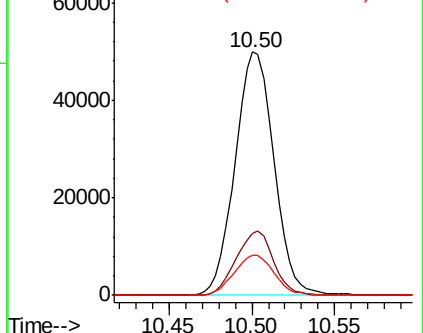
77 17.1 13.2 19.8



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: 9.554 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

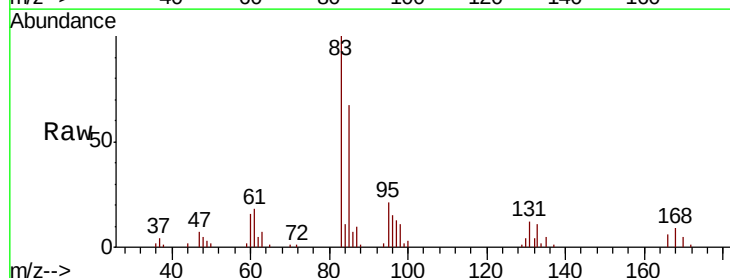
Tgt Ion: 83 Resp: 33997

Ion Ratio Lower Upper

83 100

85 66.7 45.2 84.0

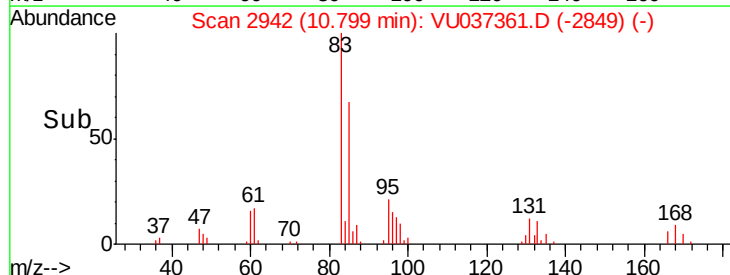
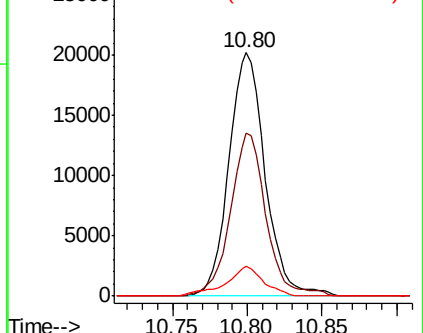
131 12.3 7.8 11.8#

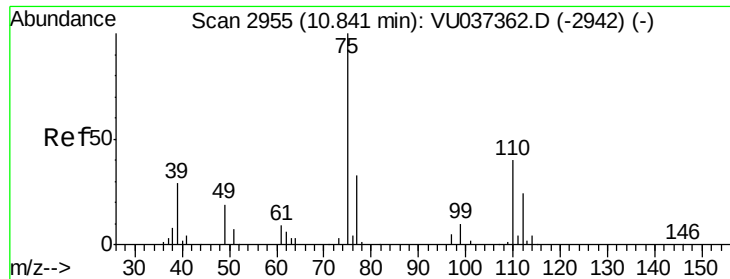


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 9.920 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

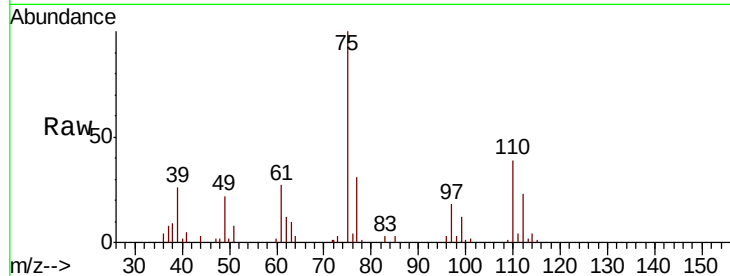
ClientSampleId :

Tot Ion: 75 Resp: 29375

Ion Ratio Lower Upper

75 100

77 32.1 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU037361.D (-2933) (-)

Ion 77.00 (76.70 to 77.70): VU037361.D (-2933) (-)

10.84

20000

15000

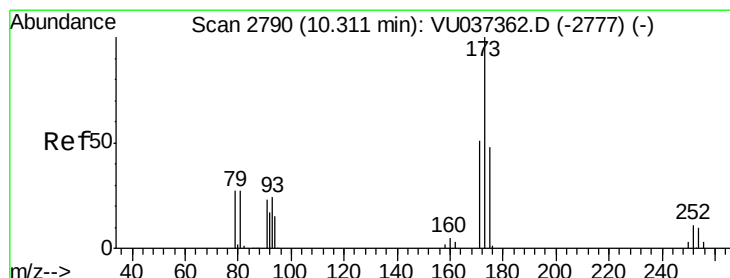
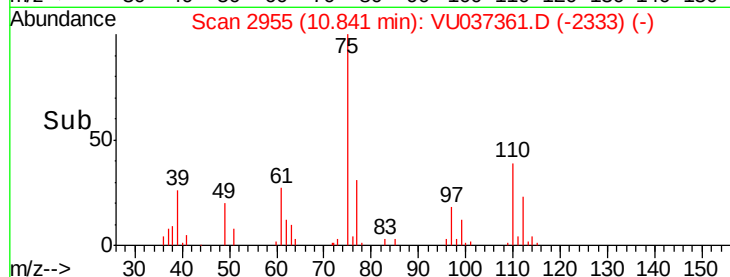
10000

5000

0

Time-->

10.80 10.85 10.90



#61

Bromoform

Concen: 10.857 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

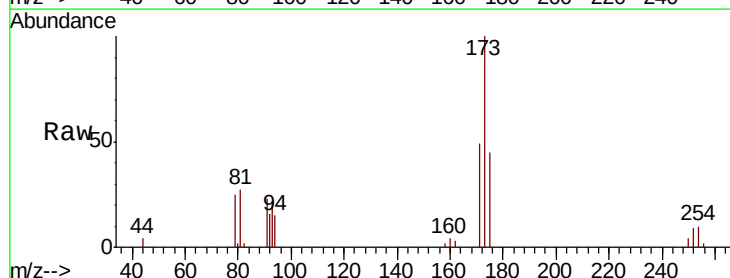
Tgt Ion: 173 Resp: 18238

Ion Ratio Lower Upper

173 100

175 49.5 38.7 58.1

254 10.5 7.8 11.8



Abundance Ion 173.00 (172.70 to 173.70): VU037361.D (-2697) (-)

Ion 175.00 (174.70 to 175.70): VU037361.D (-2697) (-)

Ion 254.00 (253.70 to 254.70): VU037361.D (-2697) (-)

15000

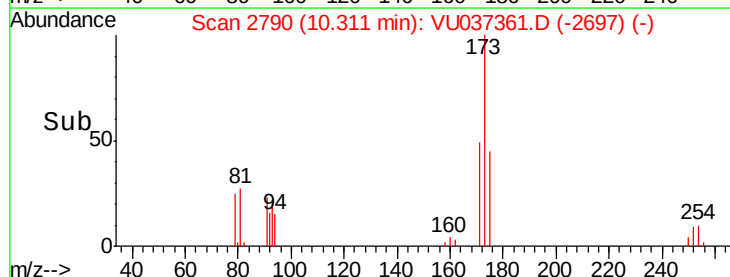
10000

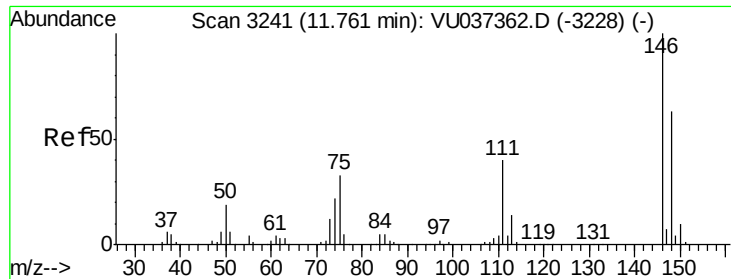
5000

0

Time-->

10.25 10.30 10.35

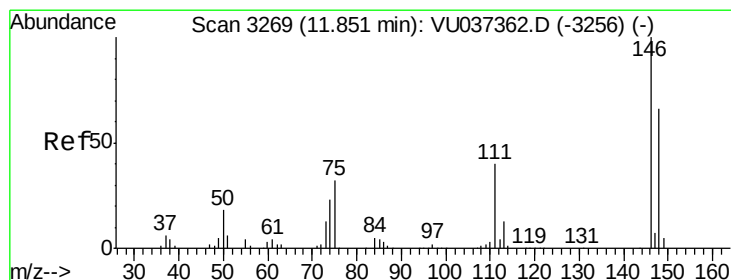
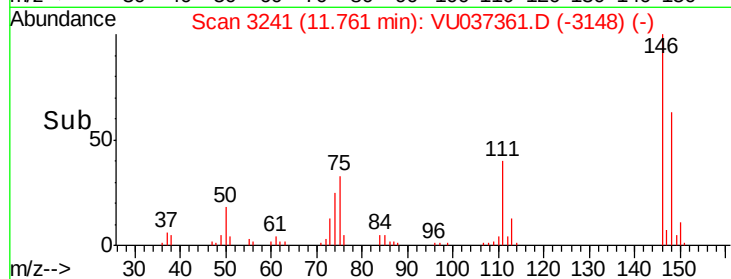
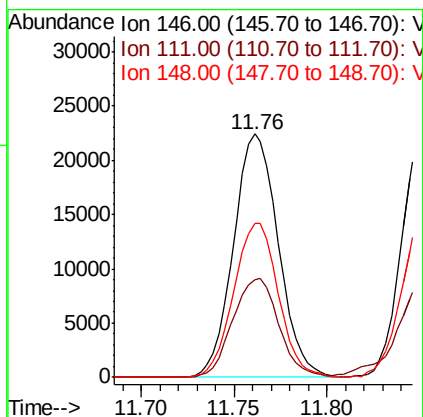
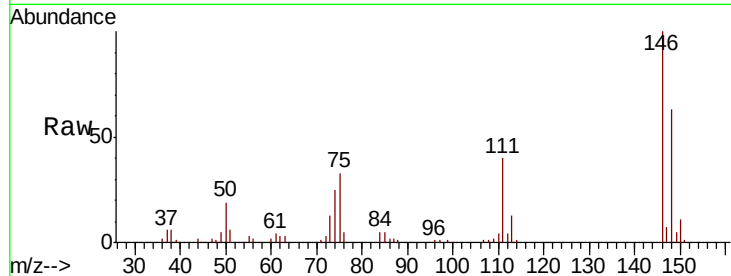




#62
 1,3-Dichlorobenzene
 Concen: 9.931 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037361.D
 Acq: 21 Mar 2020 18:12

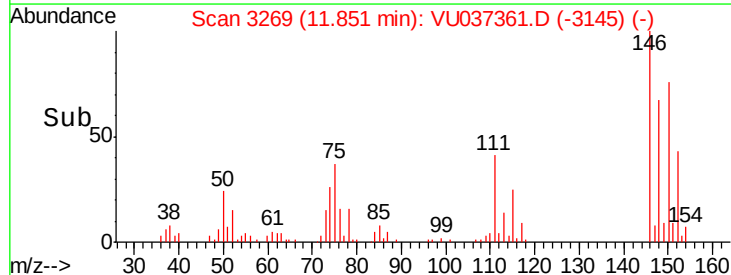
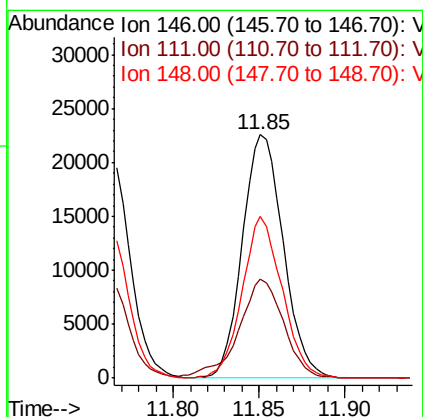
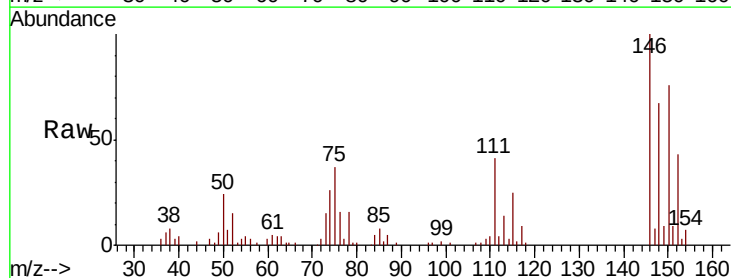
Instrument :
 MSVOA_U
 ClientSampled :

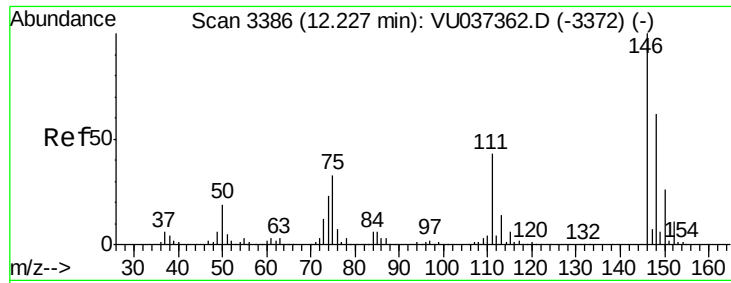
Tot Ion:146 Resp: 37754
 Ion Ratio Lower Upper
 146 100
 111 40.4 28.3 52.5
 148 63.3 43.8 81.4



#63
 1,4-Dichlorobenzene
 Concen: 9.746 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037361.D
 Acq: 21 Mar 2020 18:12

Tgt Ion:146 Resp: 37278
 Ion Ratio Lower Upper
 146 100
 111 40.6 27.9 51.9
 148 66.6 46.2 85.8





#65

1,2-Dichlorobenzene

Concen: 10.400 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampleId :

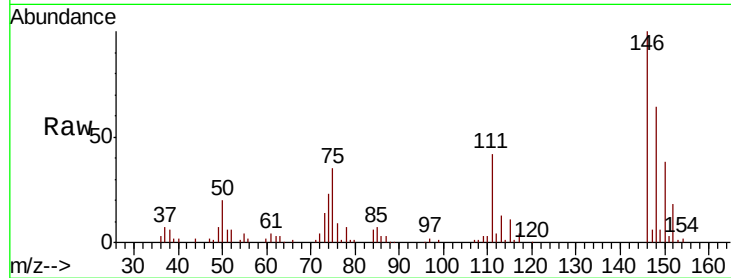
Tot Ion:146 Resp: 40339

Ion Ratio Lower Upper

146 100

111 42.3 34.7 52.1

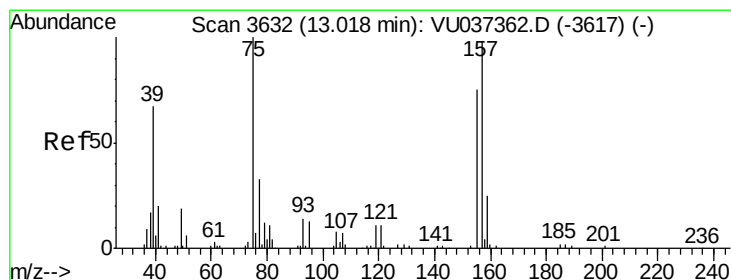
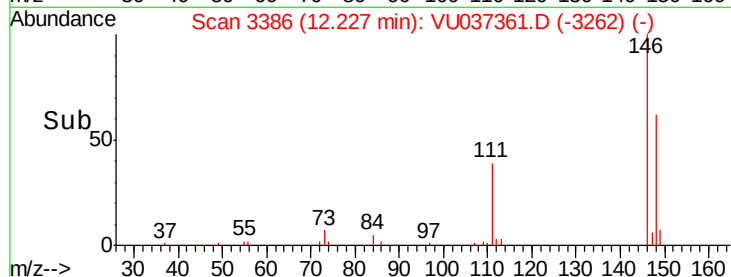
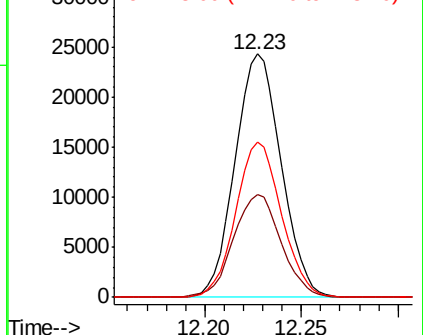
148 63.6 49.9 74.9



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: 9.897 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

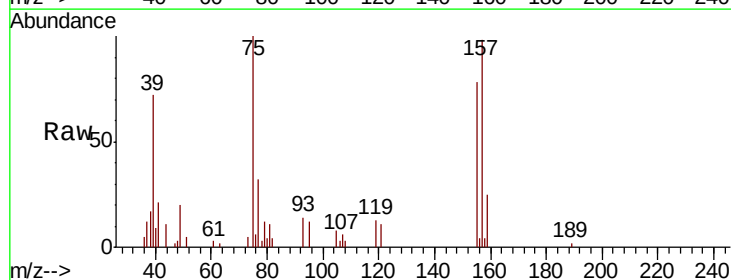
Tgt Ion: 75 Resp: 8410

Ion Ratio Lower Upper

75 100

155 77.9 59.7 89.5

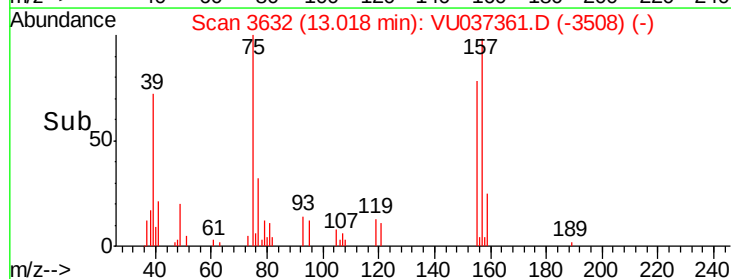
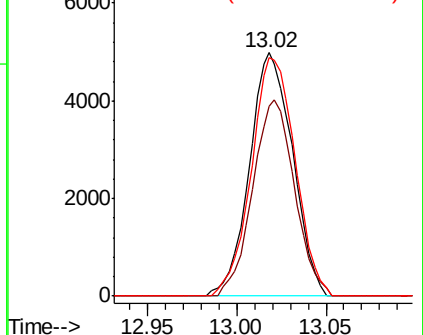
157 98.1 78.8 118.2

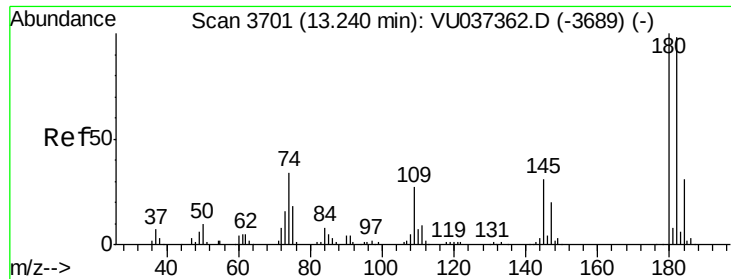


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 8.790 ug/L

RT: 13.24 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:180 Resp: 24128

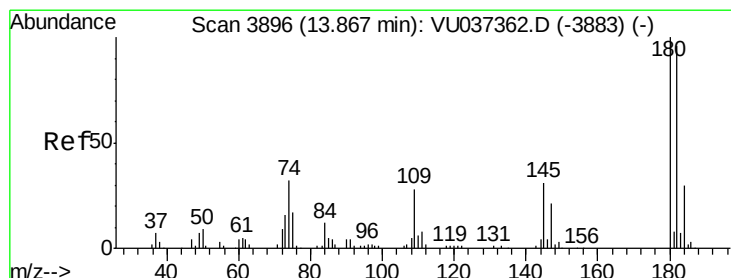
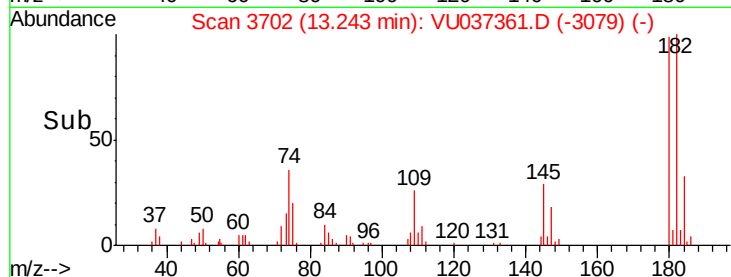
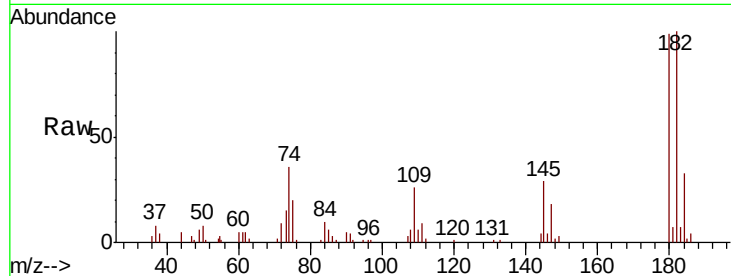
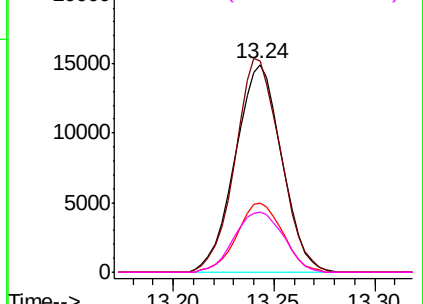
Ion	Ratio	Lower	Upper
180	100		
182	100.7	77.8	116.6
184	32.9	24.7	37.1
145	30.8	24.2	36.4

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: 7.684 ug/L

RT: 13.87 min Scan# 3897

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

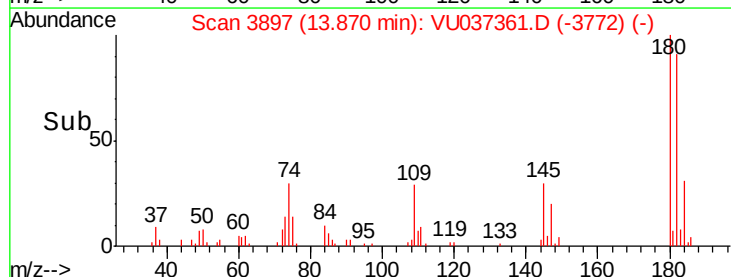
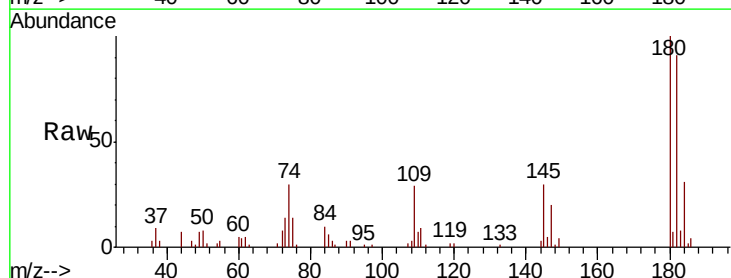
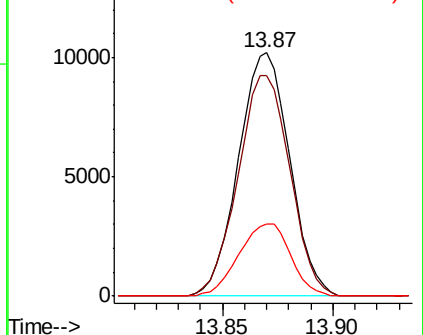
Tgt Ion:180 Resp: 16407

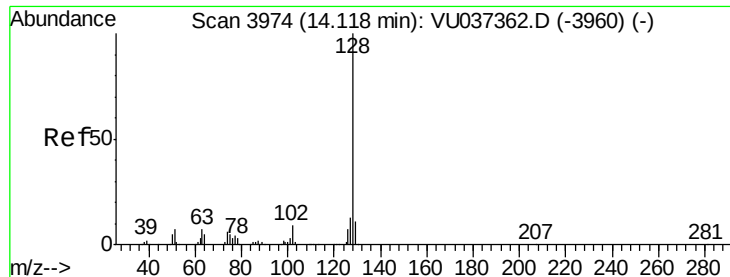
Ion	Ratio	Lower	Upper
180	100		
182	91.9	77.0	115.4
145	30.1	24.6	36.8

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: 9.422 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

Instrument :

MSVOA_U

ClientSampled :

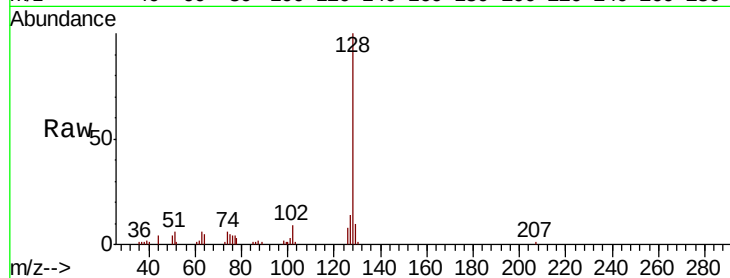
Tot Ion:128 Resp: 35707

Ion Ratio Lower Upper

128 100

127 13.6 10.6 16.0

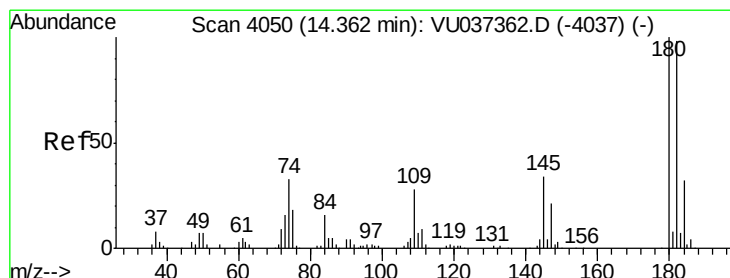
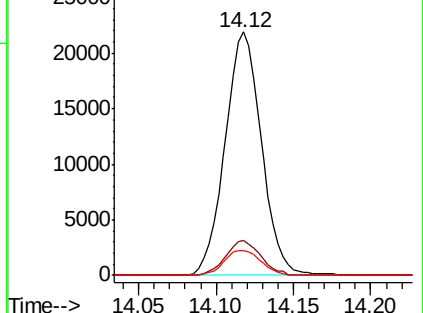
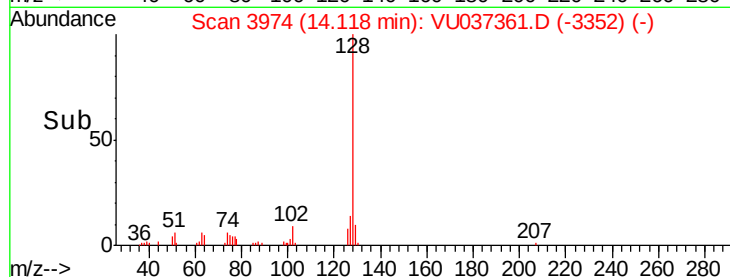
129 10.4 8.8 13.2



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: 7.755 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU037361.D

Acq: 21 Mar 2020 18:12

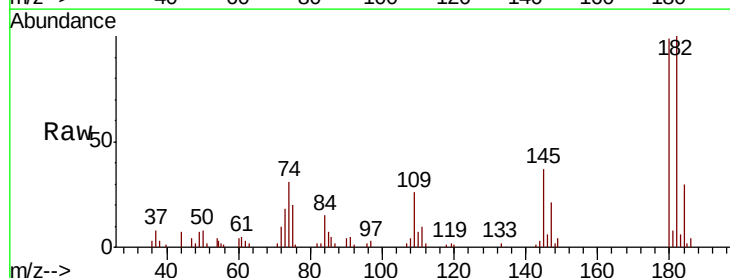
Tgt Ion:180 Resp: 17476

Ion Ratio Lower Upper

180 100

182 100.4 76.3 114.5

145 35.8 26.9 40.3



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

