

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091620\
 Data File : VU040170.D
 Acq On : 17 Sep 2020 00:38
 Operator : SY/MD
 Sample : L4046-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P6

Quant Time: Sep 17 02:10:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Sep 17 02:07:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	115687	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	110065	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54626	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	25456	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.92	69	24155	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.58	63	46863	2.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	57.80%#
20) 2-Butanone-d5	4.66	46	88953	35.21	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	70.42%
24) Chloroform-d	5.08	84	63645	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.20%
26) 1,2-Dichloroethane-d4	5.72	65	39261	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.20%
32) Benzene-d6	5.75	84	113763	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
36) 1,2-Dichloropropane-d6	6.70	67	37036	4.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.40%
41) Toluene-d8	7.91	98	94375	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.40%
43) trans-1,3-Dichloropropene-	8.19	79	15697	4.03	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.60%
46) 2-Hexanone-d5	8.64	63	86856	47.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.26%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	35014	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	40281	4.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.20%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	535	0.049	ug/L 84
8) Chloroethane	1.94	64	20602	3.076	ug/L 95
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	474	0.046	ug/L # 75
13) Acetone	2.69	43	5148	2.201	ug/L 58
14) Carbon disulfide	2.81	76	2335	0.081	ug/L # 75
17) Methyl tert-butyl Ether	3.38	73	23396	0.867	ug/L # 79
27) 1,2-Dichloroethane	5.79	62	102173	6.869	ug/L # 78
30) Cyclohexane	5.40	56	8114	0.484	ug/L 94
33) Benzene	5.79	78	10309205	261.821	ug/L 100
35) Methylcyclohexane	6.78	83	6447	0.399	ug/L # 82
37) 1,2-Dichloropropane	6.70	63	4554	0.427	ug/L # 91
42) Toluene	7.98	91	34564	0.852	ug/L 98
44) trans-1,3-Dichloropropene	8.19	75	695	0.048	ug/L # 35
48) 2-Hexanone	8.64	43	22232	3.484	ug/L # 62
51) Chlorobenzene	9.45	112	2261271	89.819	ug/L 97
52) Ethylbenzene	9.57	91	32896	0.714	ug/L 97
53) m,p-Xylene	9.69	106	50729	3.093	ug/L 97

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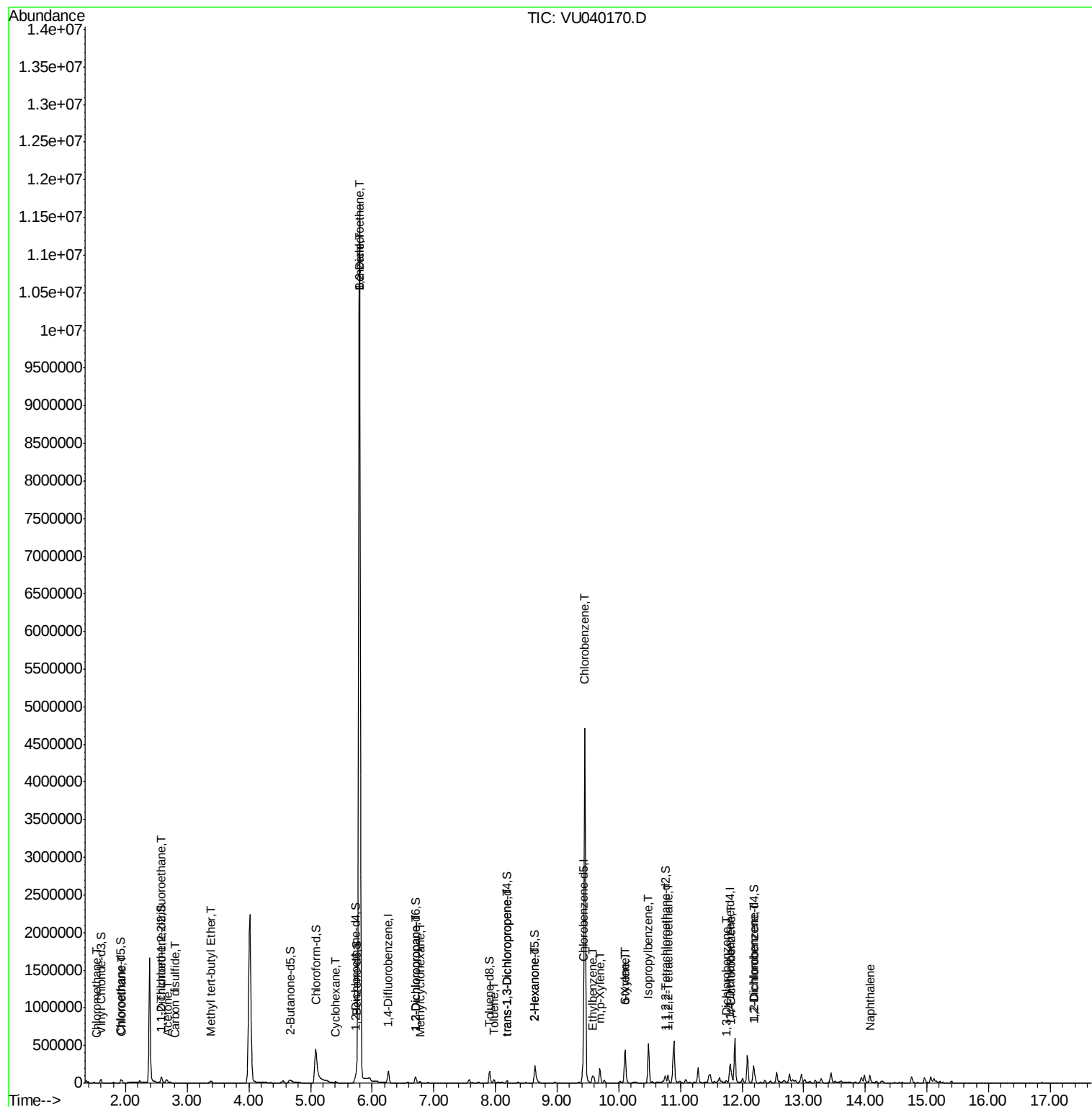
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	93541	5.984	ug/L	98
55) Styrene	10.11	104	5706	0.210	ug/L #	1
56) Isopropylbenzene	10.48	105	308697	7.241	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	1423	0.143	ug/L #	46
62) 1,3-Dichlorobenzene	11.74	146	3460	0.173	ug/L	96
63) 1,4-Dichlorobenzene	11.83	146	35281	1.746	ug/L	95
65) 1,2-Dichlorobenzene	12.20	146	23973	1.241	ug/L	95
69) Naphthalene	14.08	128	76046	3.017	ug/L	99

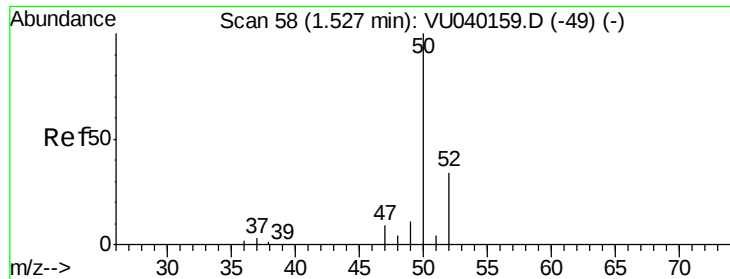
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.049 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampleId :

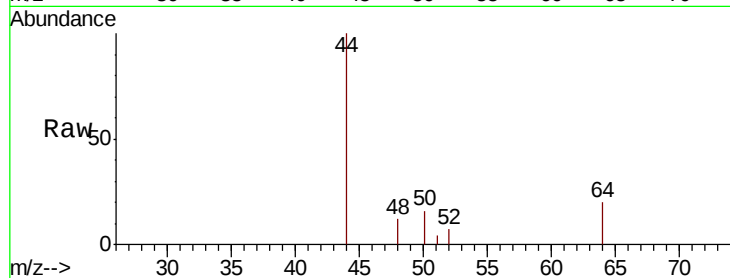
BG0P6

Tot Ion: 50 Resp: 535

Ion Ratio Lower Upper

50 100

52 41.6 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.53

600

500

400

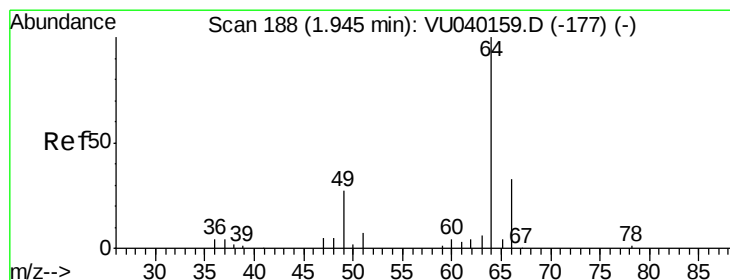
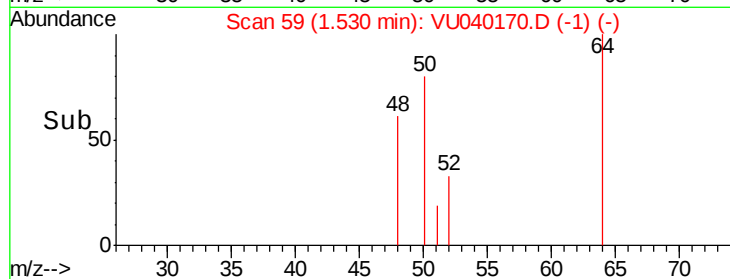
300

200

100

0

Time-->



#8

Chloroethane

Concen: 3.076 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU040170.D

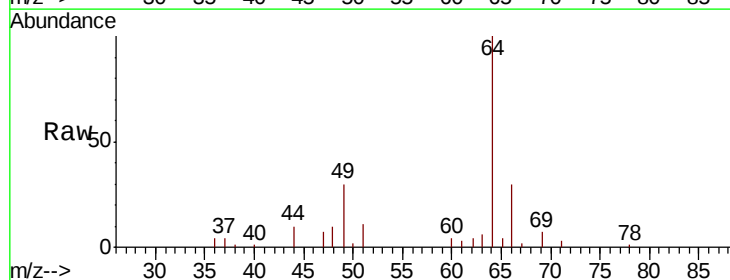
Acq: 17 Sep 2020 00:38

Tgt Ion: 64 Resp: 20602

Ion Ratio Lower Upper

64 100

66 29.6 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.94

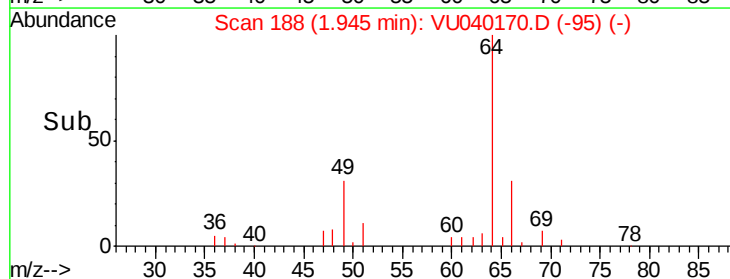
15000

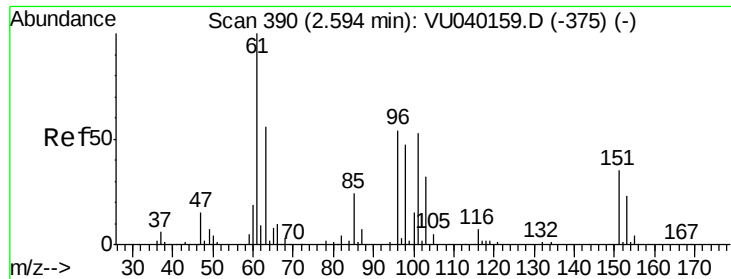
10000

5000

0

Time-->





#10

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

Concen: 0.046 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampleId :

BG0P6

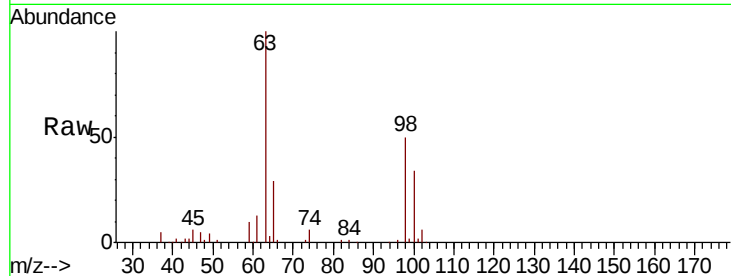
Tot Ion:101 Resp: 474

Ion Ratio Lower Upper

101 100

85 27.6 37.7 56.5#

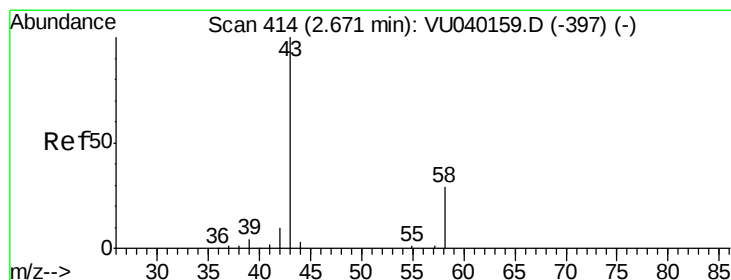
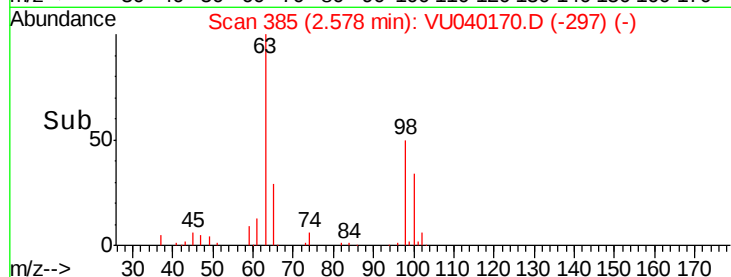
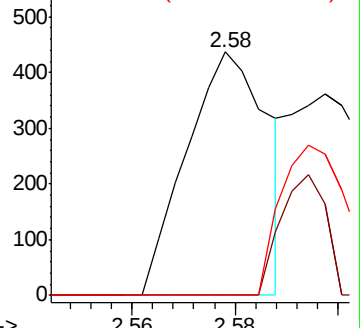
151 49.4 53.9 80.9#



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



#13

Acetone

Concen: 2.201 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.02 min

Lab File: VU040170.D

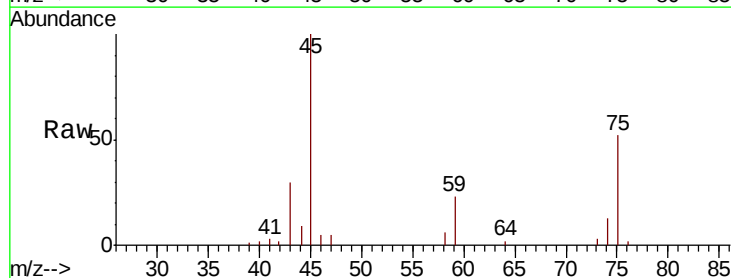
Acq: 17 Sep 2020 00:38

Tgt Ion: 43 Resp: 5148

Ion Ratio Lower Upper

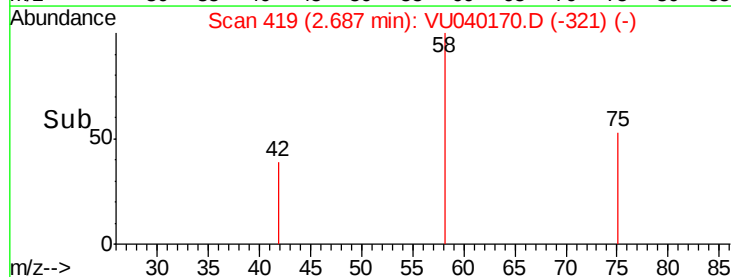
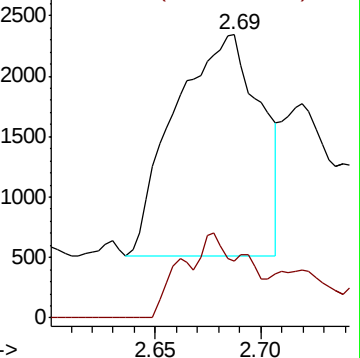
43 100

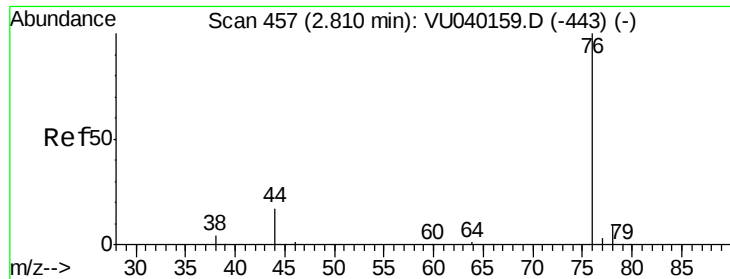
58 5.6 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.081 ug/L

RT: 2.81 min Scan# 457

Delta R.T. -0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampled :

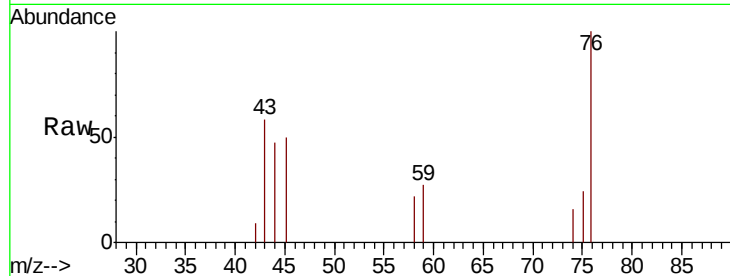
BG0P6

Tot Ion: 76 Resp: 2335

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.81

1500

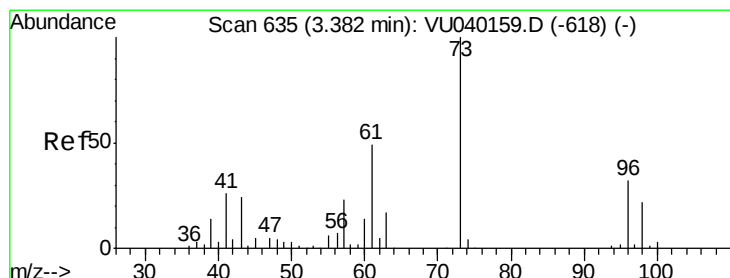
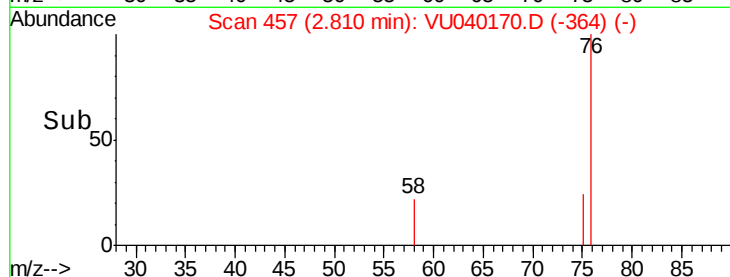
1000

500

0

2.75 2.80 2.85

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.867 ug/L

RT: 3.38 min Scan# 635

Delta R.T. -0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

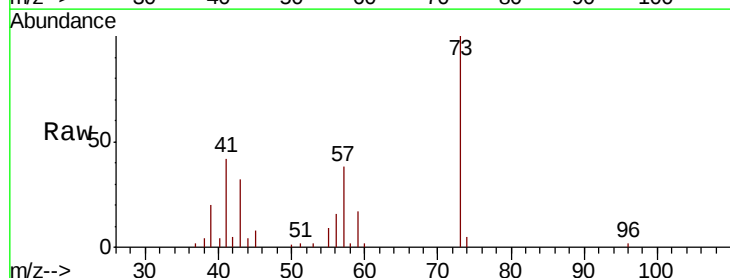
Tgt Ion: 73 Resp: 23396

Ion Ratio Lower Upper

73 100

43 32.2 19.1 28.7#

57 35.6 18.3 27.5#



Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0

12000

10000

8000

6000

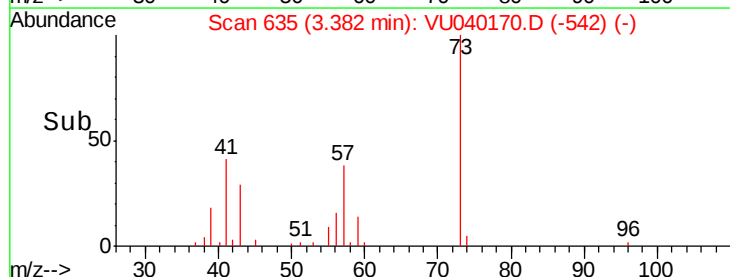
4000

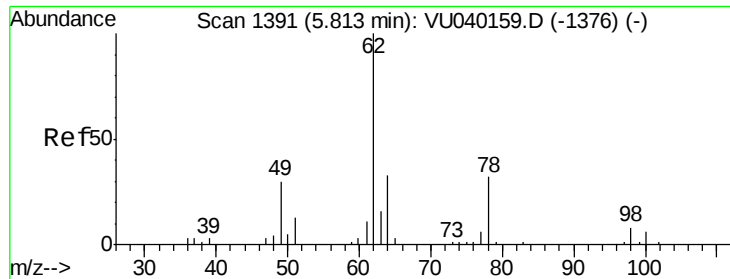
2000

0

3.30 3.40 3.50

Time-->

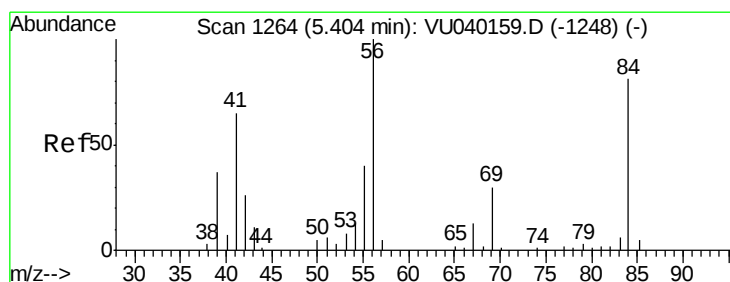
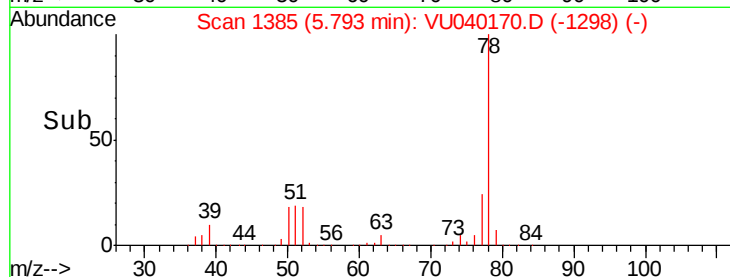
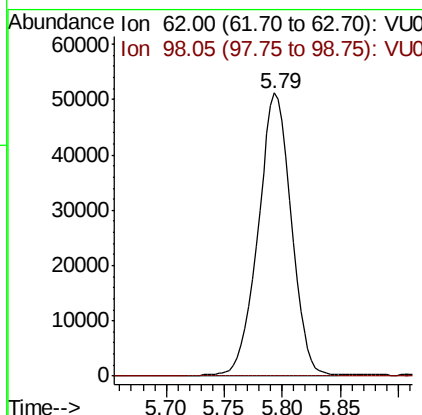
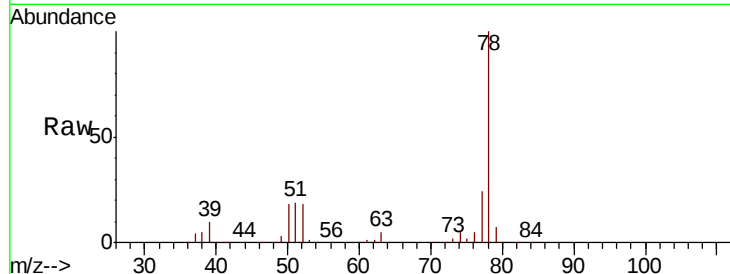




#27
 1,2-Dichloroethane
 Concen: 6.869 ug/L
 RT: 5.79 min Scan# 1385
 Delta R.T. -0.02 min
 Lab File: VU040170.D
 Acq: 17 Sep 2020 00:38

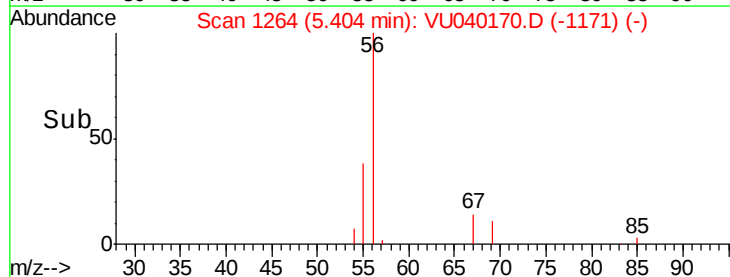
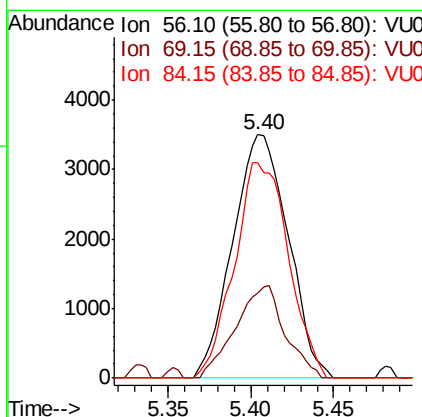
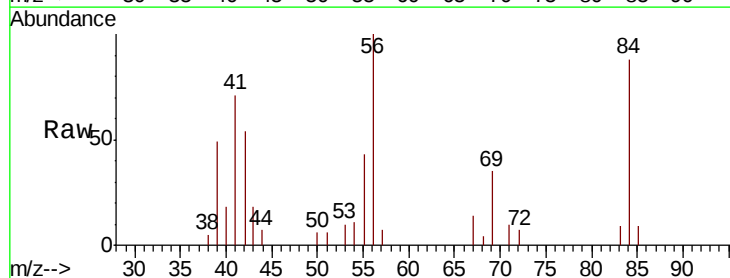
Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P6

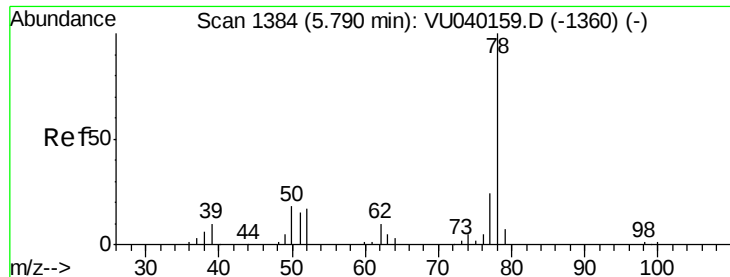
Tot Ion: 62 Resp: 102173
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.1 9.1#



#30
 Cyclohexane
 Concen: 0.484 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU040170.D
 Acq: 17 Sep 2020 00:38

Tgt Ion: 56 Resp: 8114
 Ion Ratio Lower Upper
 56 100
 69 33.9 24.1 36.1
 84 86.6 65.0 97.4





#33

Benzene

Concen: 261.821 ug/L

RT: 5.79 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

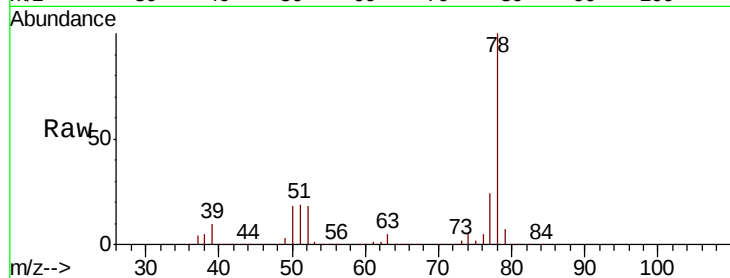
Instrument :

MSVOA_U

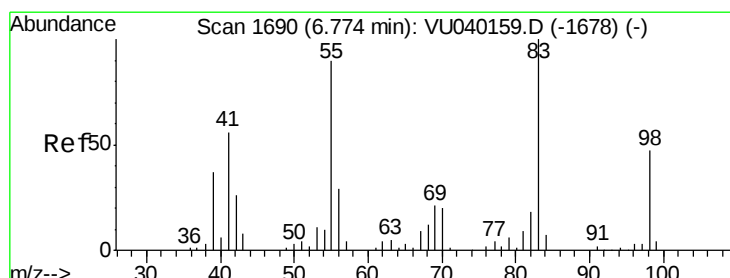
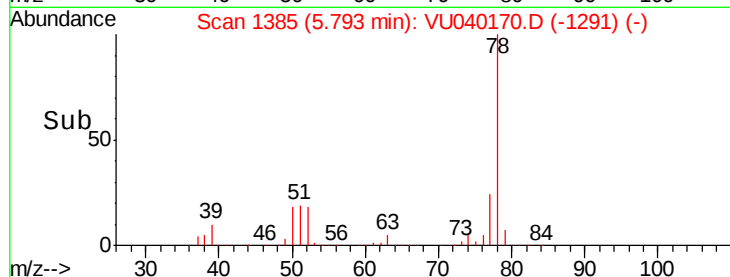
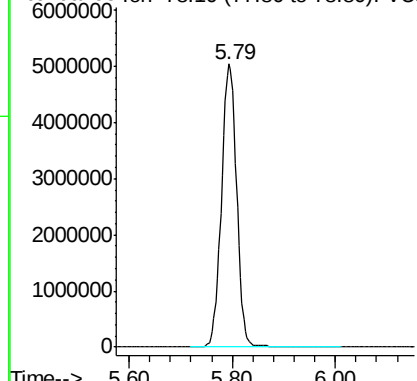
ClientSampled :

BG0P6

Tgt Ion: 78 Resp:10309205



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.399 ug/L

RT: 6.78 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

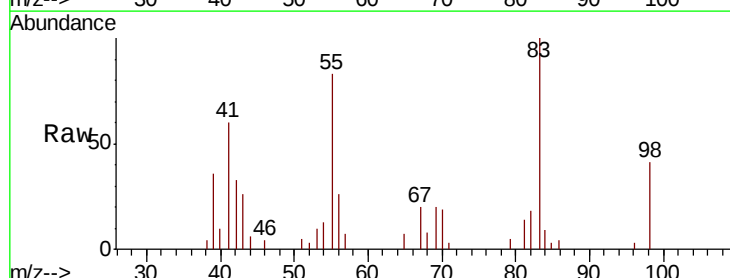
Tgt Ion: 83 Resp: 6447

Ion Ratio Lower Upper

83 100

55 98.8 70.5 105.7

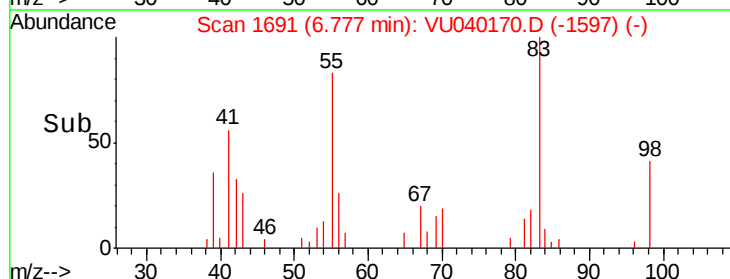
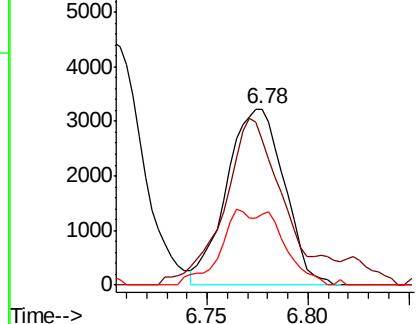
98 26.1 37.8 56.6#

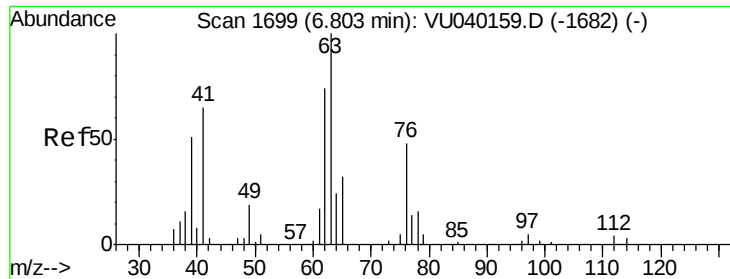


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

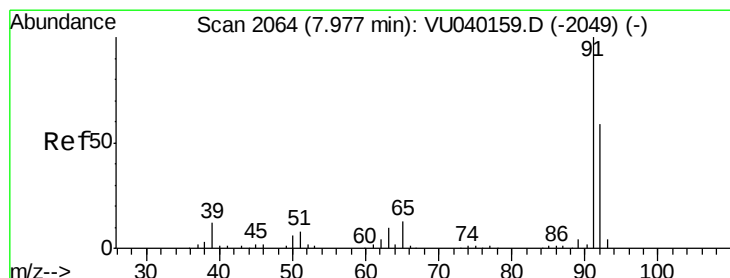
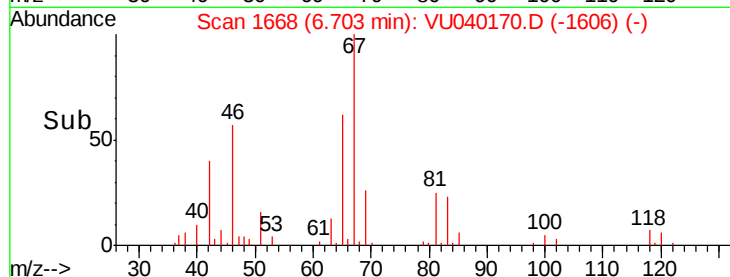
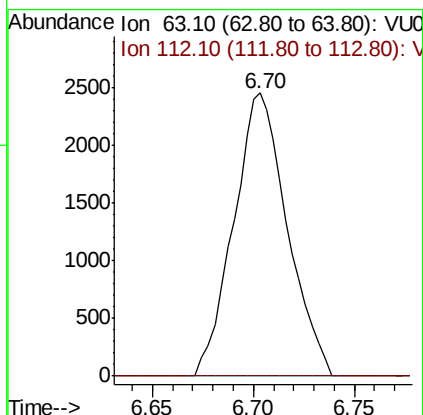
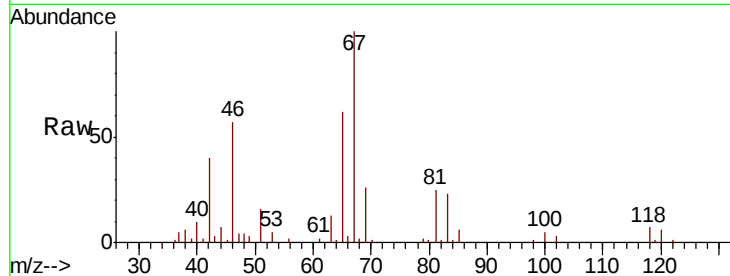




#37
 1,2-Dichloropropane
 Concen: 0.427 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040170.D
 Acq: 17 Sep 2020 00:38

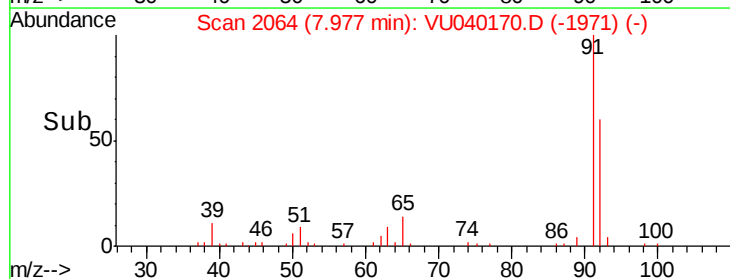
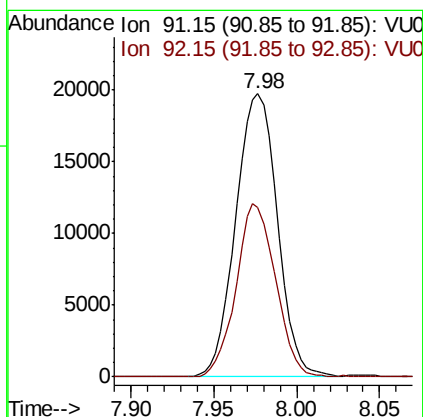
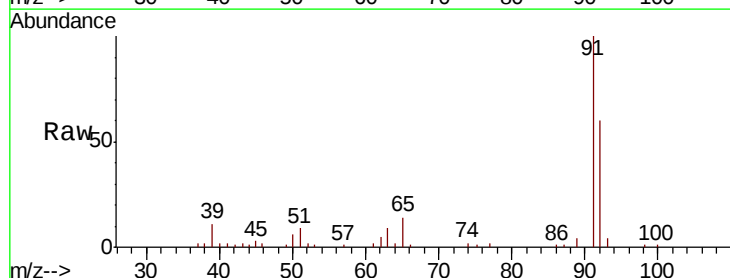
Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P6

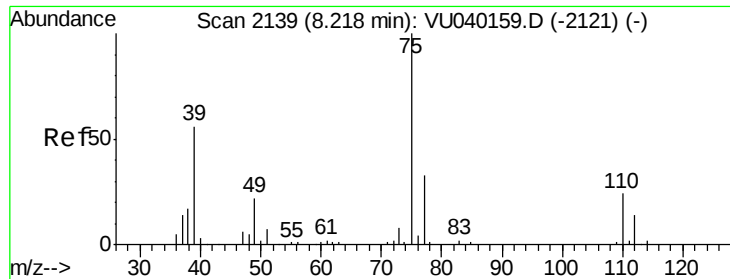
Tot Ion: 63 Resp: 4554
 Ion Ratio Lower Upper
 63 100
 112 1.2 3.2 4.8#



#42
 Toluene
 Concen: 0.852 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VU040170.D
 Acq: 17 Sep 2020 00:38

Tgt Ion: 91 Resp: 34564
 Ion Ratio Lower Upper
 91 100
 92 59.9 40.7 75.5





#44

trans-1,3-Dichloropropene

Concen: 0.048 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampled :

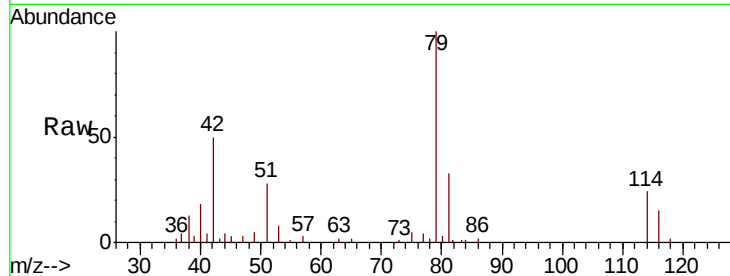
BG0P6

Tot Ion: 75 Resp: 695

Ion Ratio Lower Upper

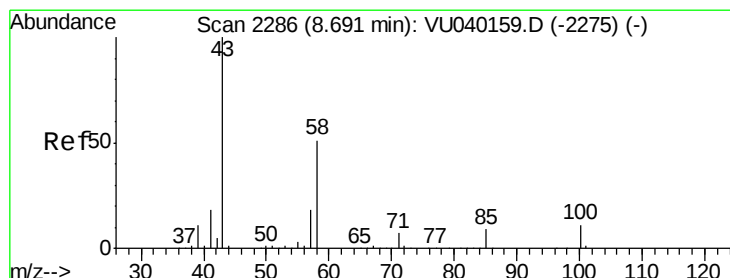
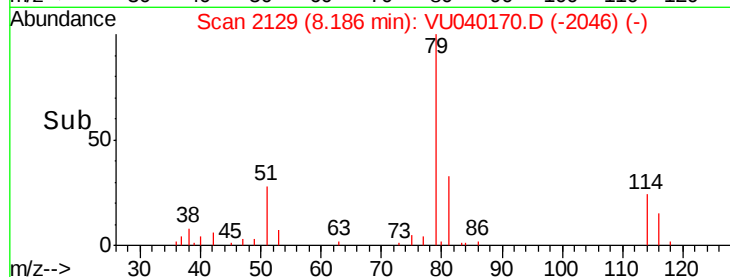
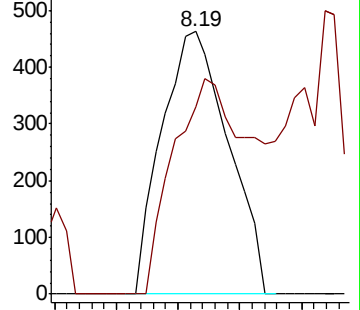
75 100

77 71.5 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU040159.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU040159.D (-2121) (-)



#48

2-Hexanone

Concen: 3.484 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Tgt Ion: 43 Resp: 22232

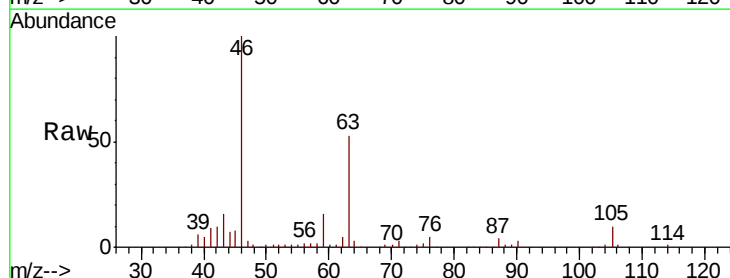
Ion Ratio Lower Upper

43 100

58 13.9 39.6 59.4#

57 14.7 14.3 21.5

100 0.3 8.0 12.0#

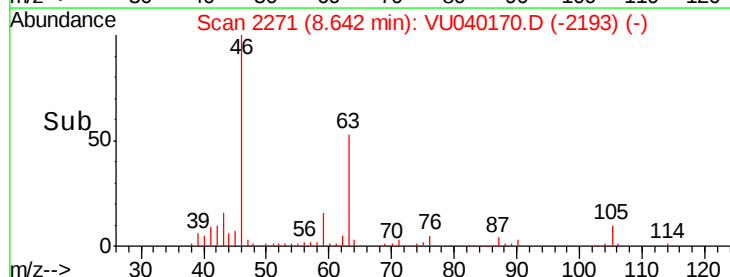
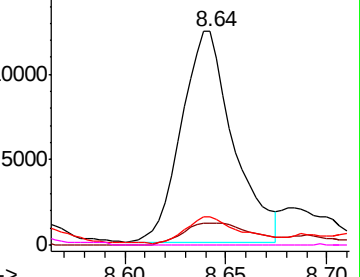


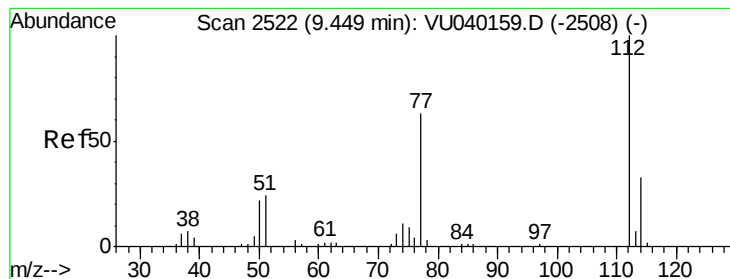
Abundance Ion 43.05 (42.75 to 43.75): VU040159.D (-2275) (-)

Ion 58.05 (57.75 to 58.75): VU040159.D (-2275) (-)

Ion 57.20 (56.90 to 57.90): VU040159.D (-2275) (-)

Ion 100.15 (99.85 to 100.85): VU040159.D (-2275) (-)





#51

Chlorobenzene

Concen: 89.819 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampled :

BG0P6

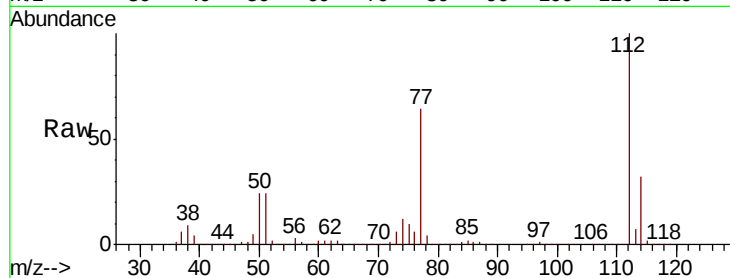
Tot Ion:112 Resp: 2261271

Ion Ratio Lower Upper

112 100

114 31.7 22.7 42.3

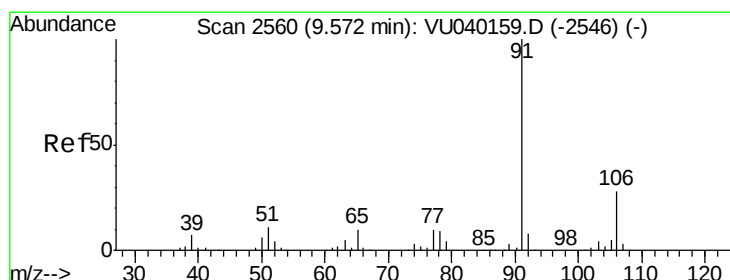
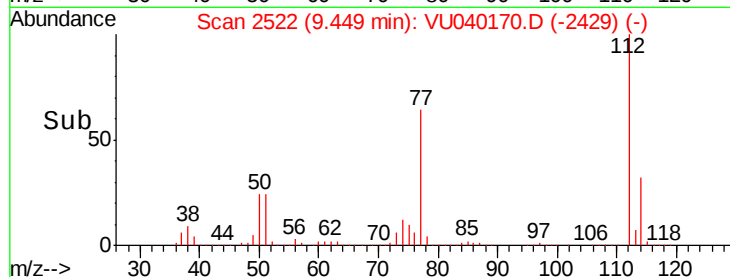
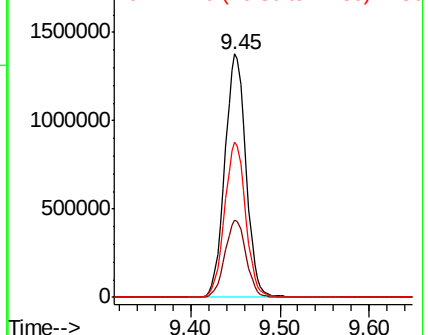
77 63.9 53.2 79.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#52

Ethylbenzene

Concen: 0.714 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040170.D

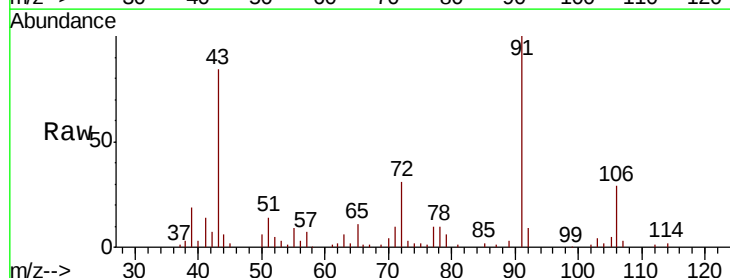
Acq: 17 Sep 2020 00:38

Tgt Ion: 91 Resp: 32896

Ion Ratio Lower Upper

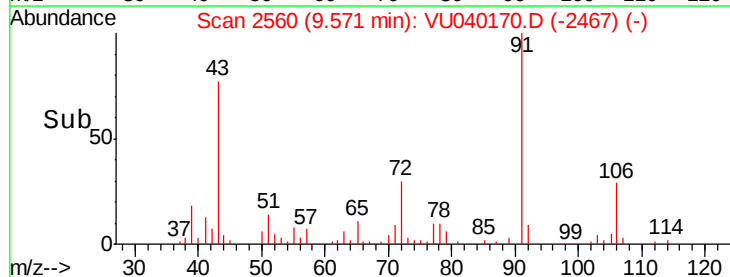
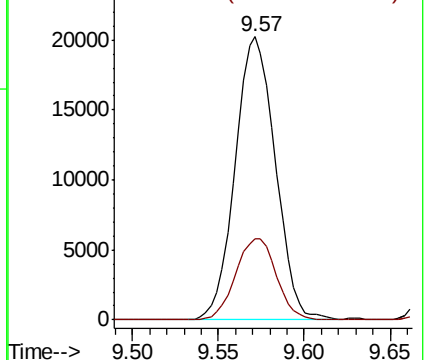
91 100

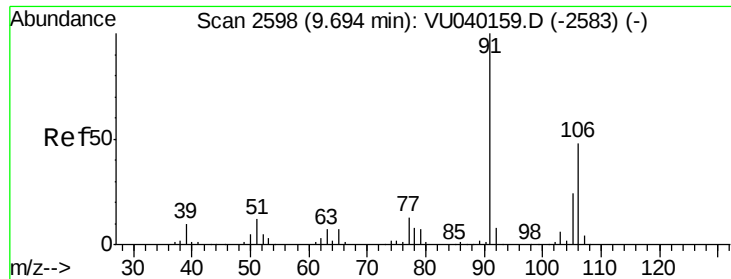
106 28.6 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V

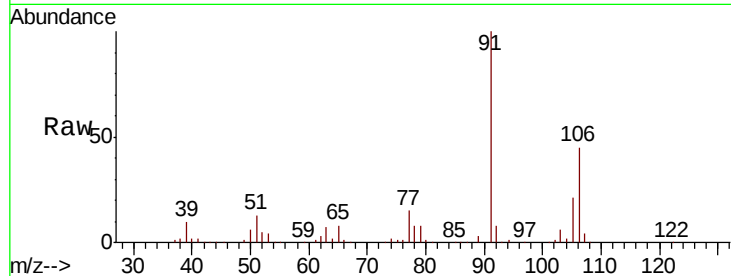




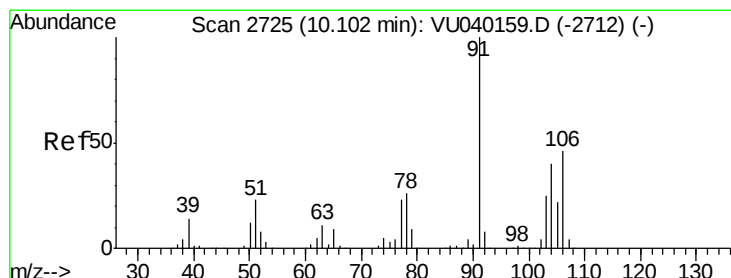
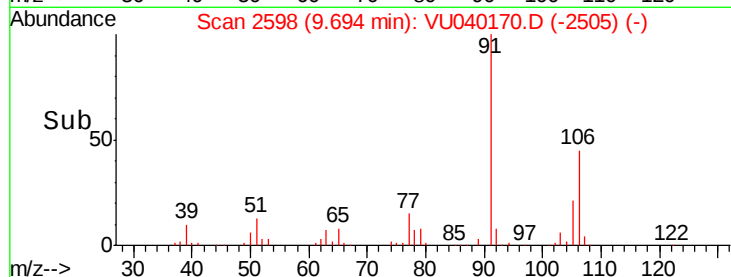
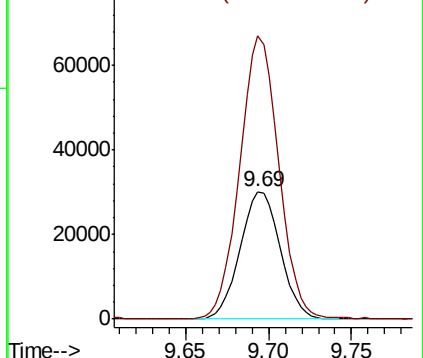
#53
m,p-Xylene
Concen: 3.093 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VU040170.D
Acq: 17 Sep 2020 00:38

Instrument :
MSVOA_U
ClientSampled :
BG0P6

Tot Ion:106 Resp: 50729
Ion Ratio Lower Upper
106 100
91 221.4 151.7 281.7

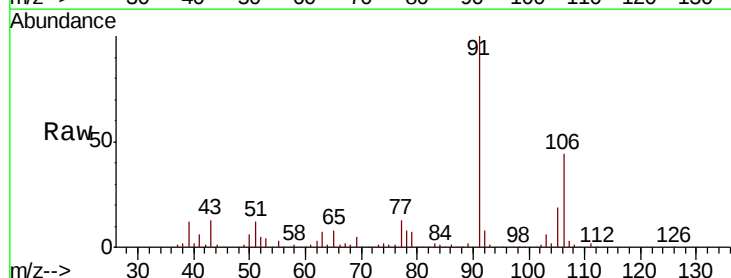


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

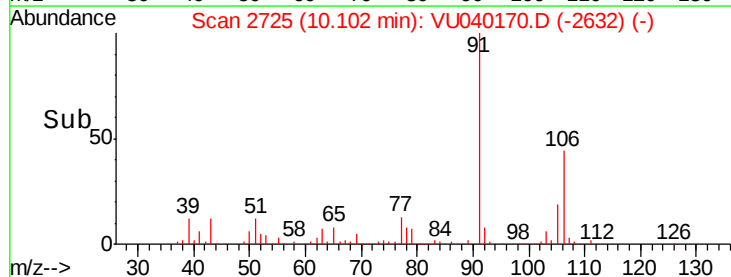
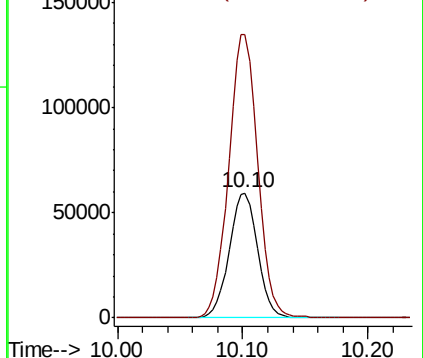


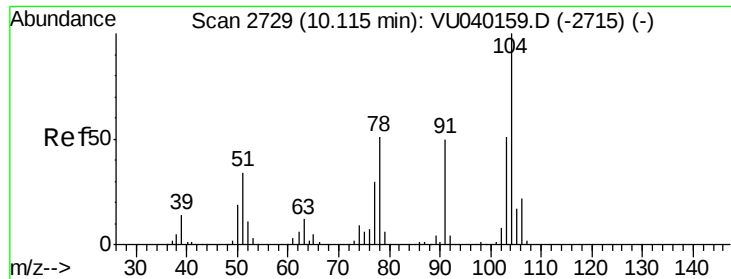
#54
o-Xylene
Concen: 5.984 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. -0.00 min
Lab File: VU040170.D
Acq: 17 Sep 2020 00:38

Tgt Ion:106 Resp: 93541
Ion Ratio Lower Upper
106 100
91 227.1 160.8 298.6



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0





#55

Stvrene

Concen: 0.210 ug/L

RT: 10.11 min Scan# 2726

Delta R.T. -0.01 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampleId :

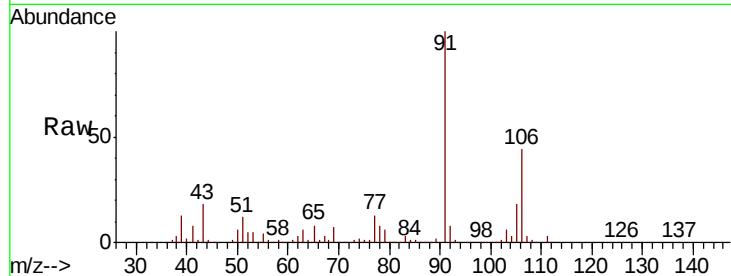
BG0P6

Tot Ion:104 Resp: 5706

Ion Ratio Lower Upper

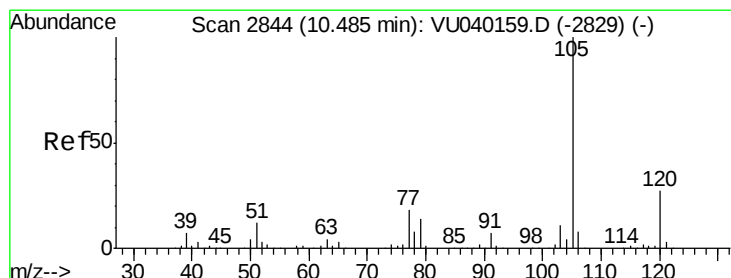
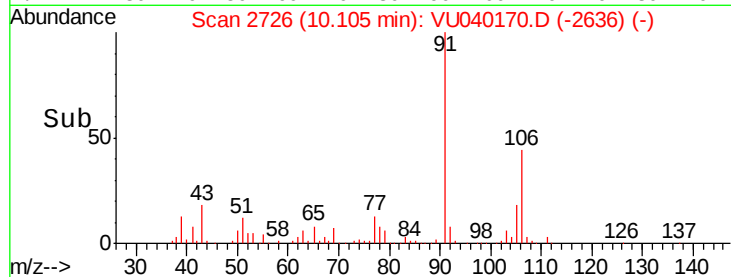
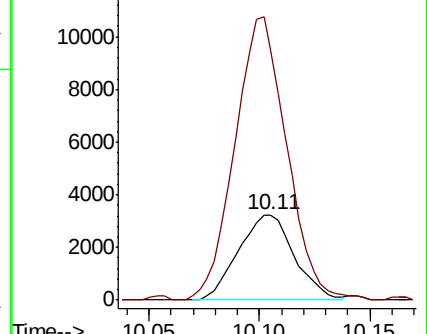
104 100

78 292.7 36.8 68.3#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



#56

Isopropylbenzene

Concen: 7.241 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

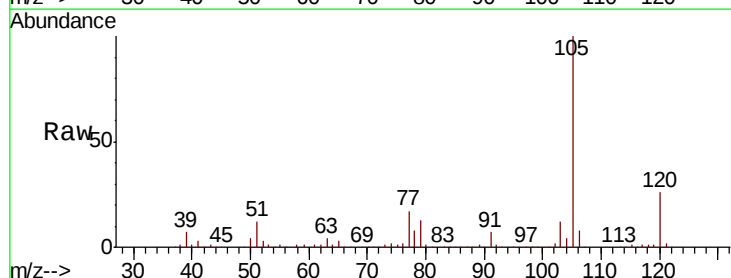
Tgt Ion:105 Resp: 308697

Ion Ratio Lower Upper

105 100

120 26.0 20.1 30.1

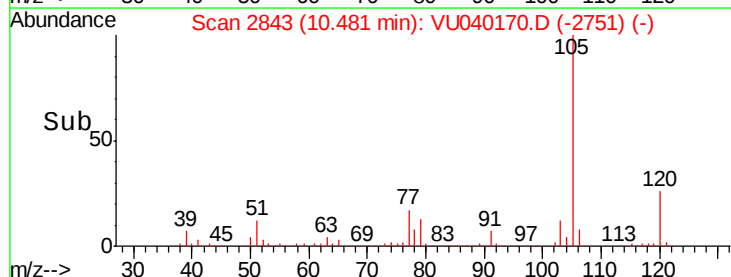
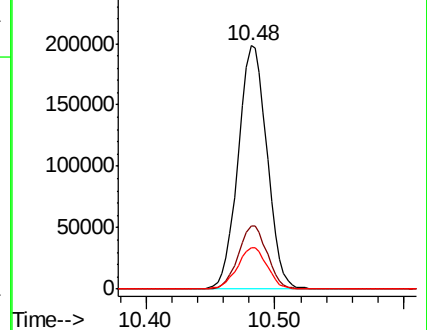
77 17.6 14.4 21.6

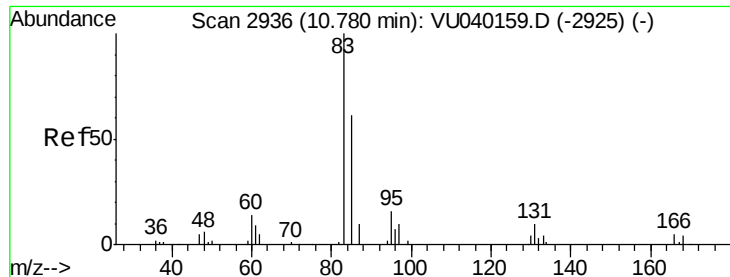


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.143 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.02 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampled :

BG0P6

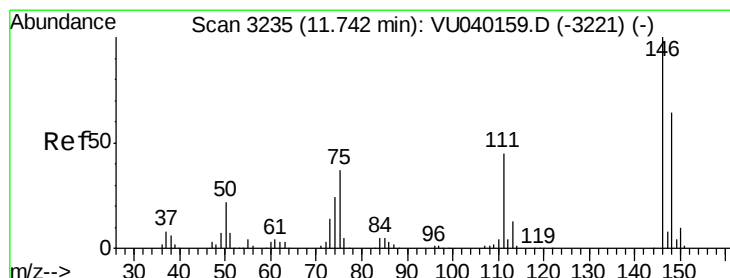
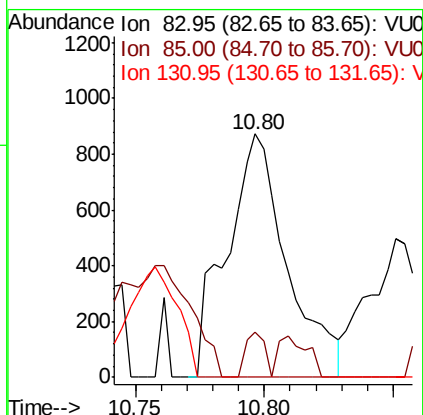
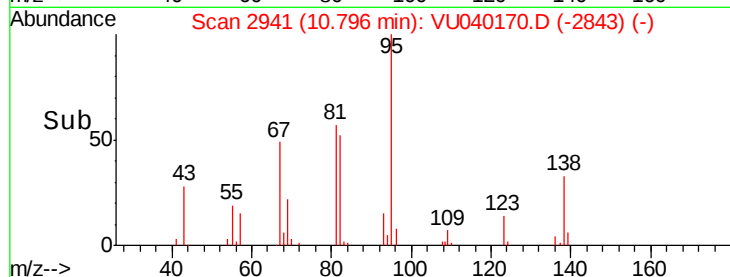
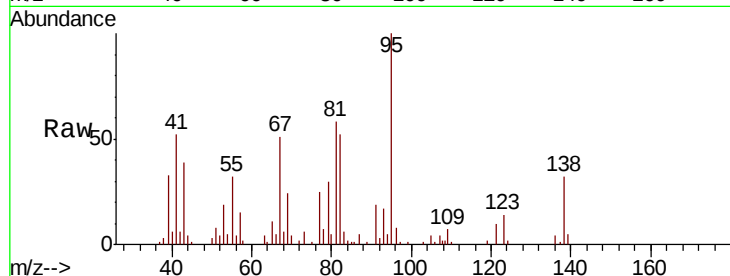
Tot Ion: 83 Resp: 1423

Ion Ratio Lower Upper

83 100

85 18.3 44.9 83.3#

131 0.0 7.4 11.0#



#62

1,3-Dichlorobenzene

Concen: 0.173 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

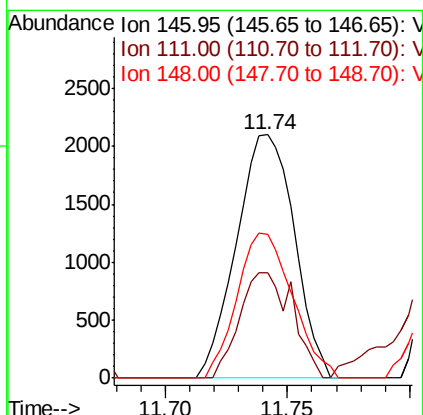
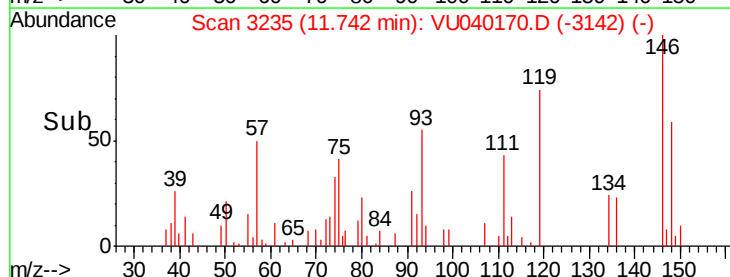
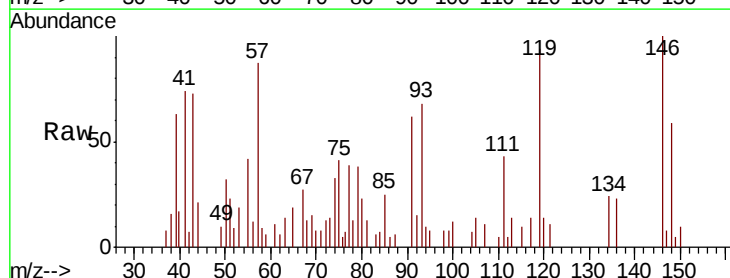
Tgt Ion: 146 Resp: 3460

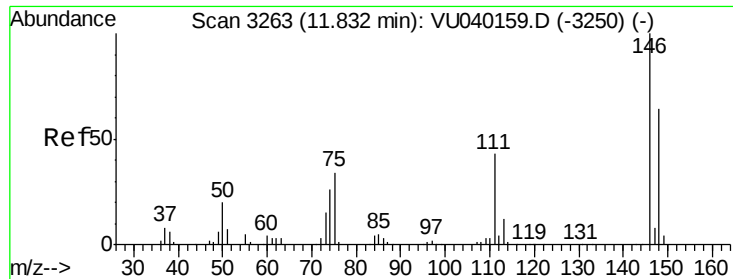
Ion Ratio Lower Upper

146 100

111 43.4 31.6 58.8

148 59.1 44.2 82.0

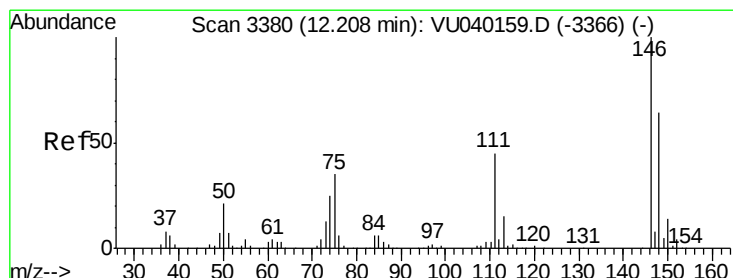
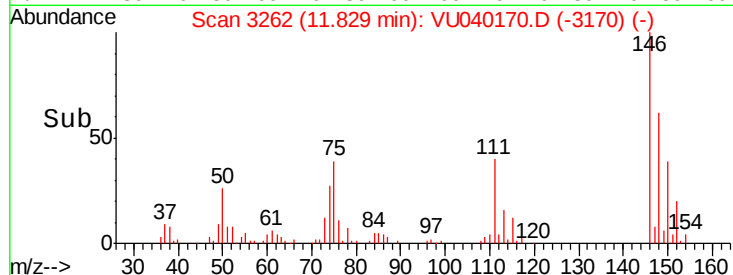
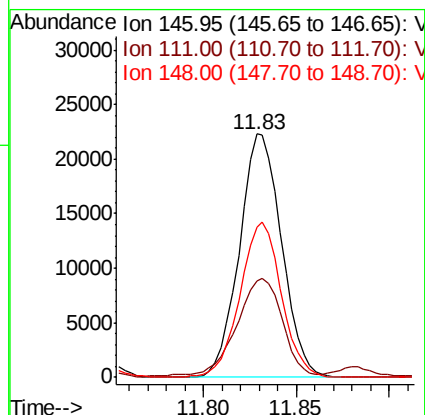
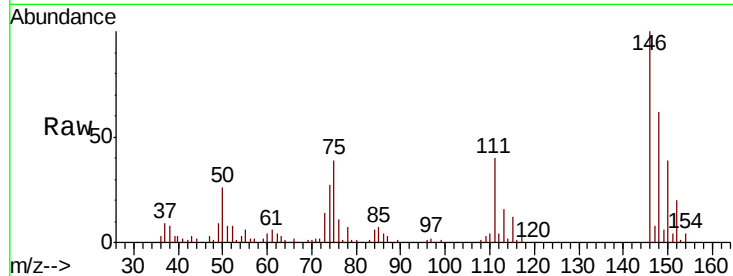




#63
 1,4-Dichlorobenzene
 Concen: 1.746 ug/L
 RT: 11.83 min Scan# 3262
 Delta R.T. -0.00 min
 Lab File: VU040170.D
 Acq: 17 Sep 2020 00:38

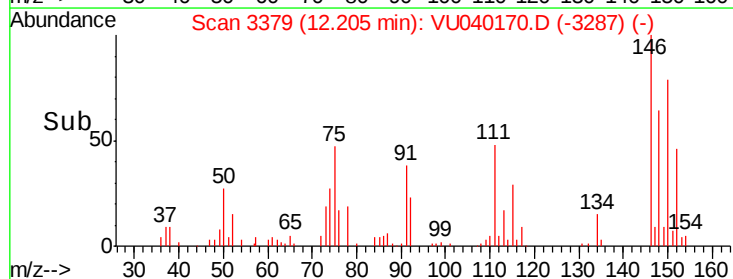
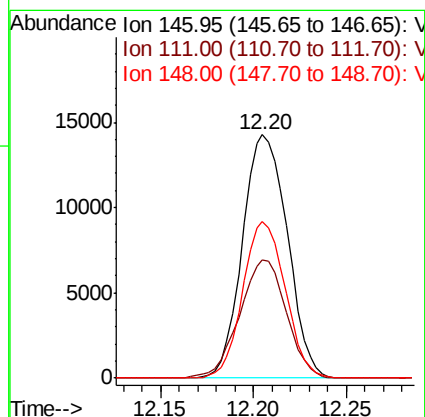
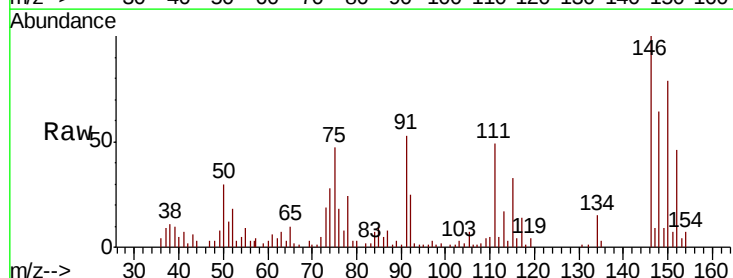
Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P6

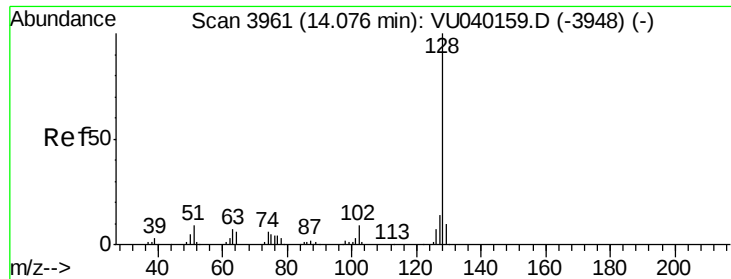
Tot Ion:146 Resp: 35281
 Ion Ratio Lower Upper
 146 100
 111 39.8 30.5 56.7
 148 61.9 45.4 84.4



#65
 1,2-Dichlorobenzene
 Concen: 1.241 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. -0.00 min
 Lab File: VU040170.D
 Acq: 17 Sep 2020 00:38

Tgt Ion:146 Resp: 23973
 Ion Ratio Lower Upper
 146 100
 111 48.7 36.5 54.7
 148 64.3 48.6 72.8





#69

Naphthalene

Concen: 3.017 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040170.D

Acq: 17 Sep 2020 00:38

Instrument :

MSVOA_U

ClientSampleId :

BG0P6

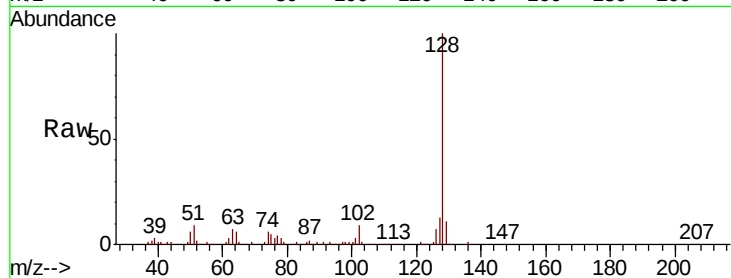
Tot Ion:128 Resp: 76046

Ion Ratio Lower Upper

128 100

129 11.3 8.7 13.1

127 13.4 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

