

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024576.D
 Acq On : 15 Jun 2018 05:59
 Operator : MD/SY
 Sample : J3478-13
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 08:24:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

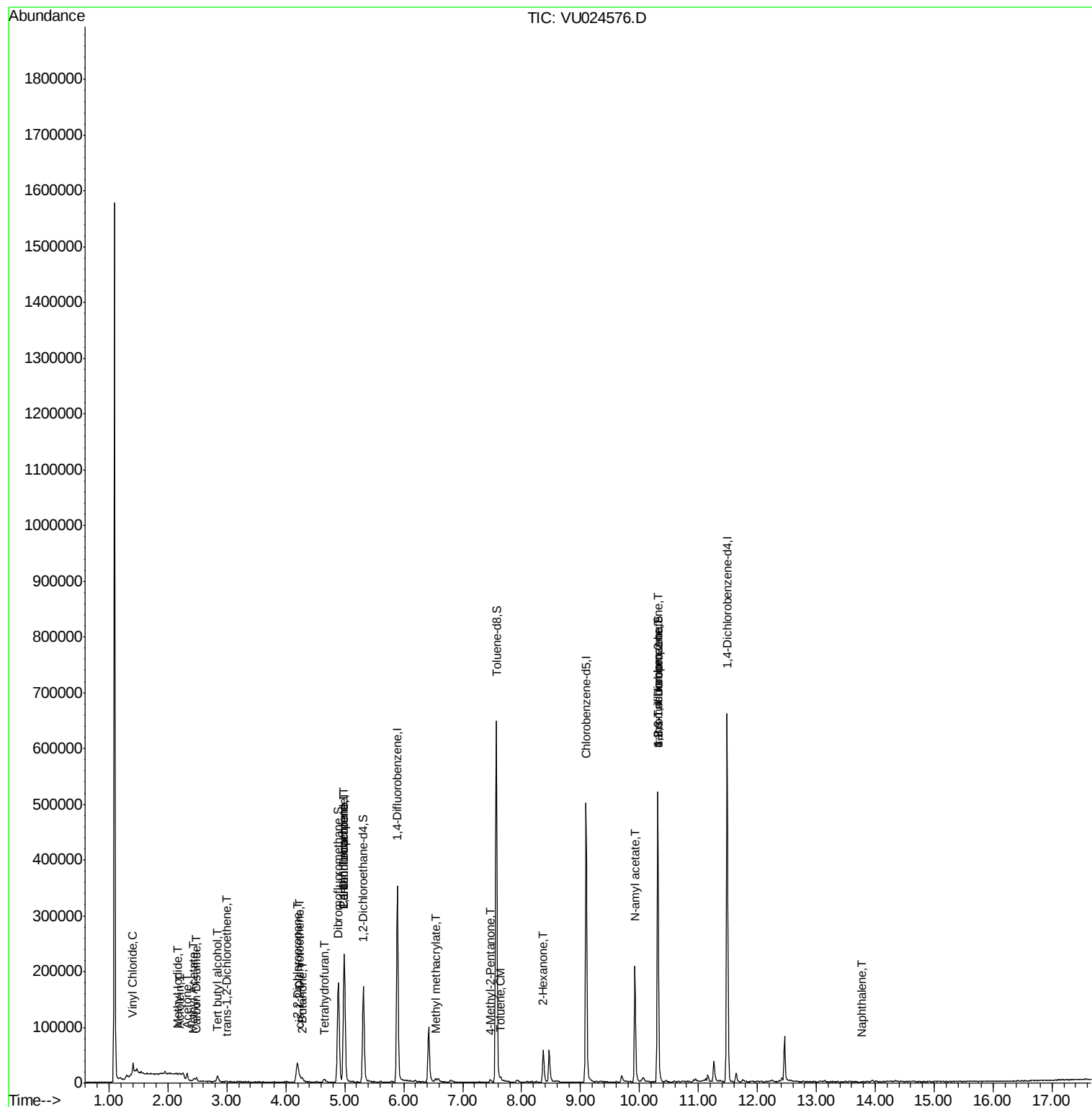
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	186738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	305133	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	291669	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	175342	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.32	65	132018	43.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.62%	
35) Dibromofluoromethane	4.89	113	120661	47.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.30%	
50) Toluene-d8	7.57	98	447891	48.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.98%	
62) 4-Bromofluorobenzene	10.31	95	170914	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.41	62	9599	3.898	ug/l #	66
6) Chloroethane	1.74	64	751	Below Cal	#	43
8) Diethyl Ether	2.13	74	23	Below Cal		68
10) Methyl Iodide	2.17	142	20	5.298	ug/l #	1
11) Tert butyl alcohol	2.84	59	6814	9.190	ug/l #	74
13) Acrolein	2.20	56	328	0.842	ug/l #	72
16) Acetone	2.32	43	12922	7.889	ug/l	95
17) Carbon Disulfide	2.48	76	8054	1.183	ug/l	99
18) Methyl Acetate	2.45	43	1401	0.399	ug/l #	53
21) trans-1,2-Dichloroethene	3.00	96	698	0.298	ug/l #	75
25) 2-Butanone	4.27	43	11588	5.267	ug/l	92
26) 2,2-Dichloropropane	4.19	77	2375	0.556	ug/l #	57
27) cis-1,2-Dichloroethene	4.23	96	3761	1.397	ug/l	86
29) Tetrahydrofuran	4.66	42	4463	3.276	ug/l #	92
31) Cyclohexane	4.99	56	3800	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13543	3.777	ug/l #	51
38) Carbon Tetrachloride	4.99	117	16809	4.263	ug/l #	16
48) Methyl methacrylate	6.54	41	1498	0.455	ug/l #	38
51) 4-Methyl-2-Pentanone	7.46	43	3056	0.720	ug/l #	85
52) Toluene	7.64	92	1591	0.242	ug/l	95
59) 2-Hexanone	8.37	43	39808	11.489	ug/l	98
74) N-amyl acetate	9.92	43	132847	20.747	ug/l #	47
76) 1,2,3-Trichloropropane	10.31	75	85780	22.221	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	85780	51.428	ug/l #	100
95) Naphthalene	13.76	128	66	0.684	ug/l #	69

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

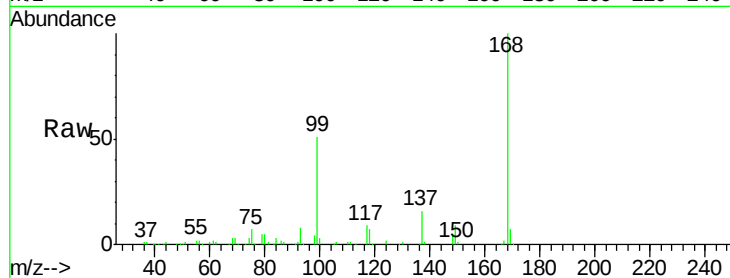
ClientSampleId :

Tot Ion:168 Resp: 186738

Ion Ratio Lower Upper

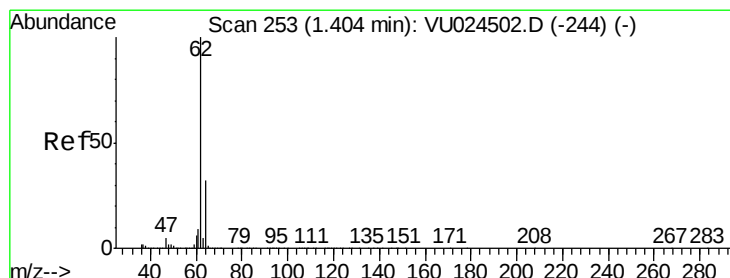
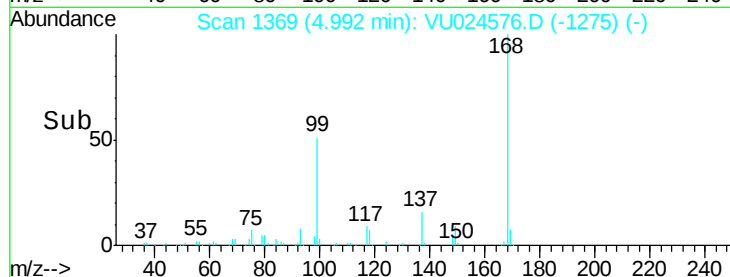
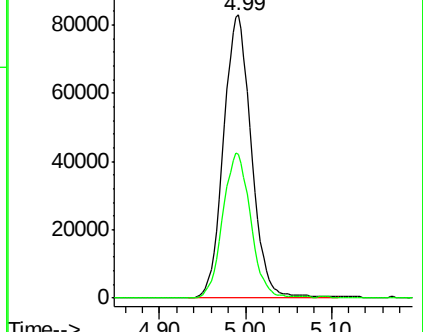
168 100

99 50.8 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#4

Vinyl Chloride

Concen: 3.898 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024576.D

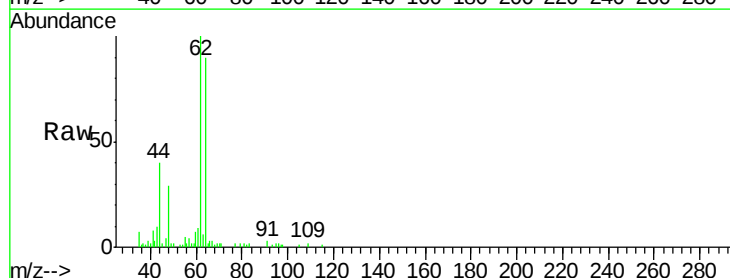
Acq: 15 Jun 2018 05:59

Tgt Ion: 62 Resp: 9599

Ion Ratio Lower Upper

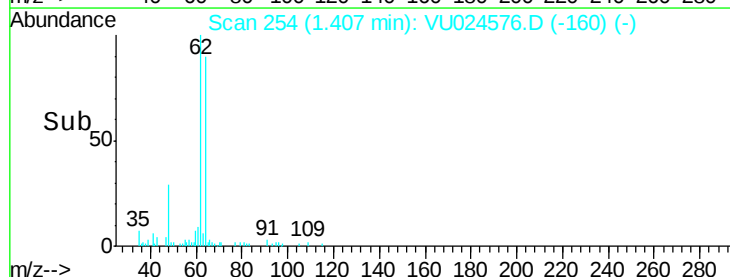
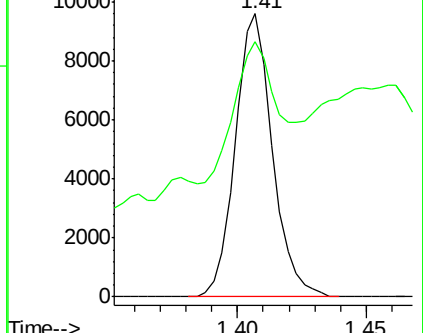
62 100

64 49.5 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU024502.D (-244) (-)

Ion 63.90 (63.60 to 64.60): VU024502.D (-244) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 358

Delta R.T. 0.05 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

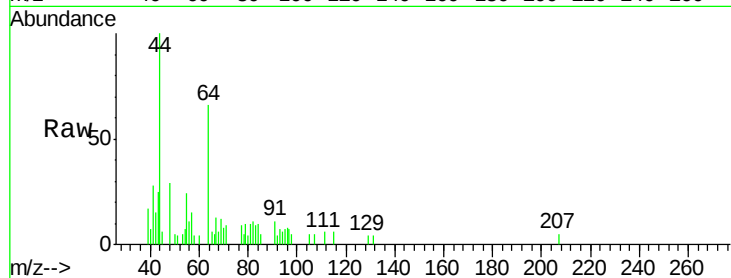
ClientSampled :

Tot Ion: 64 Resp: 751

Ion Ratio Lower Upper

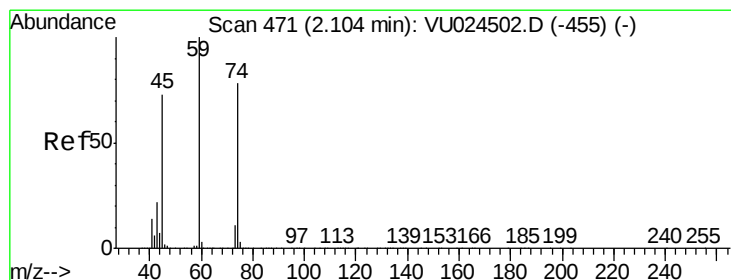
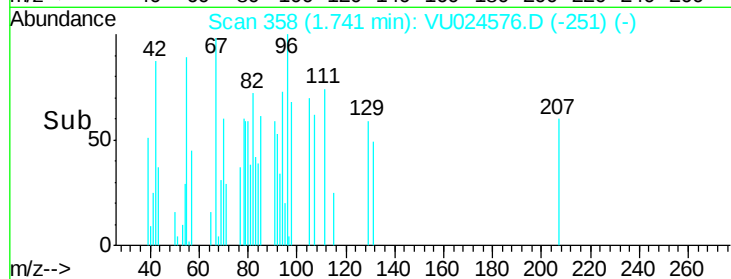
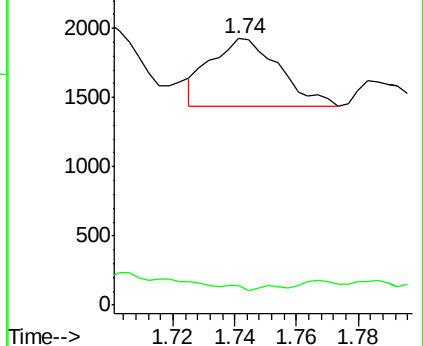
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.13 min Scan# 478

Delta R.T. 0.02 min

Lab File: VU024576.D

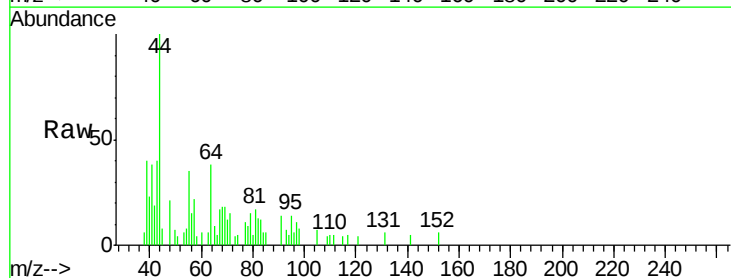
Acq: 15 Jun 2018 05:59

Tgt Ion: 74 Resp: 23

Ion Ratio Lower Upper

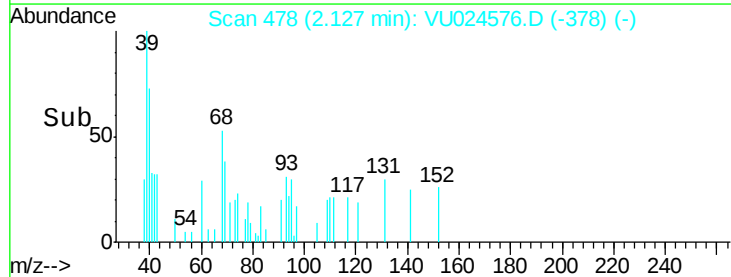
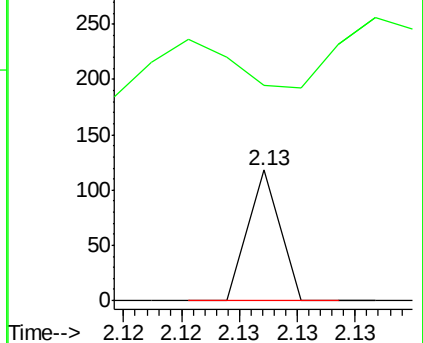
74 100

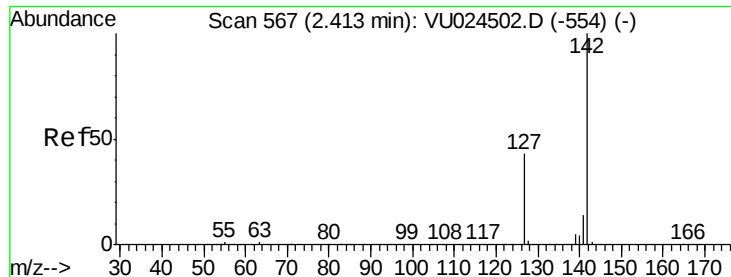
45 143.5 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

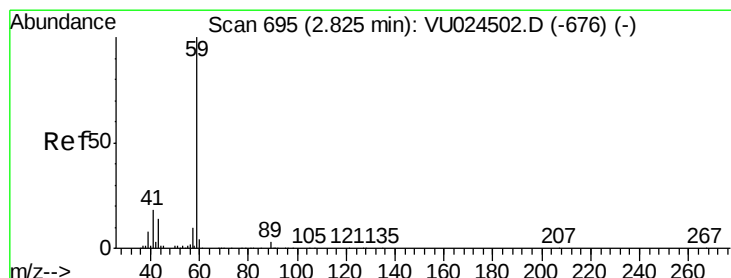
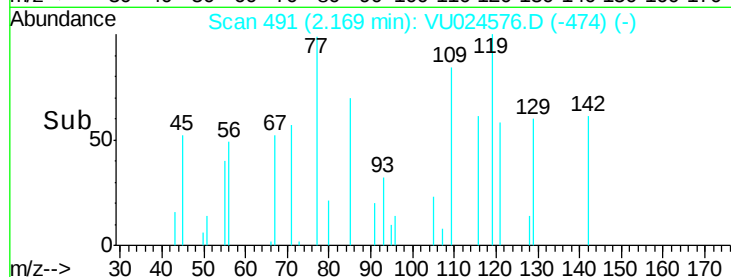
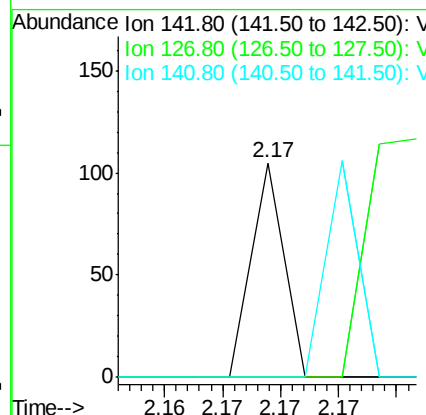
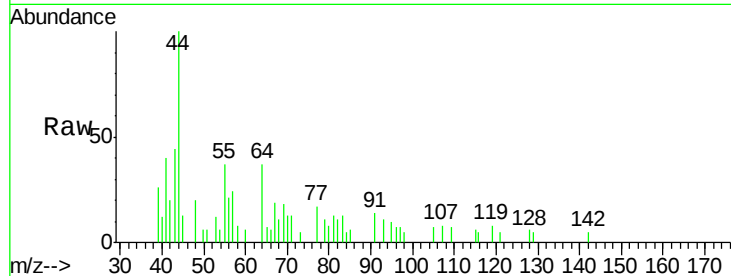




#10
Methyl Iodide
Concen: 5.298 ug/l
RT: 2.17 min Scan# 491
Delta R.T. -0.24 min
Lab File: VU024576.D
Acq: 15 Jun 2018 05:59

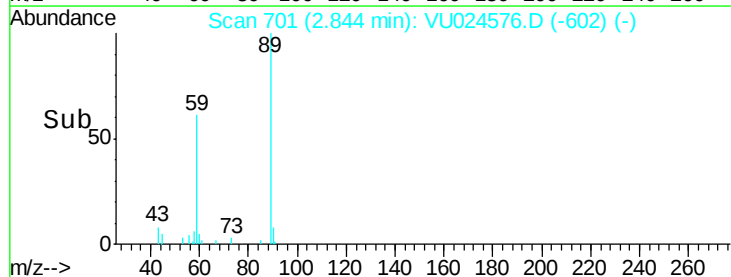
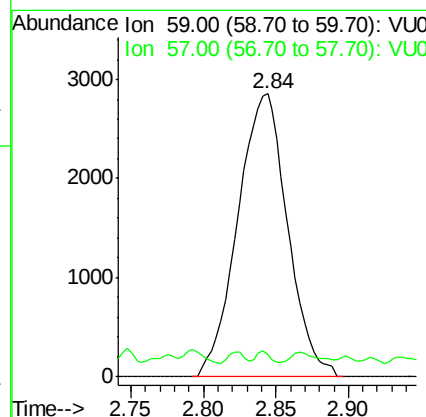
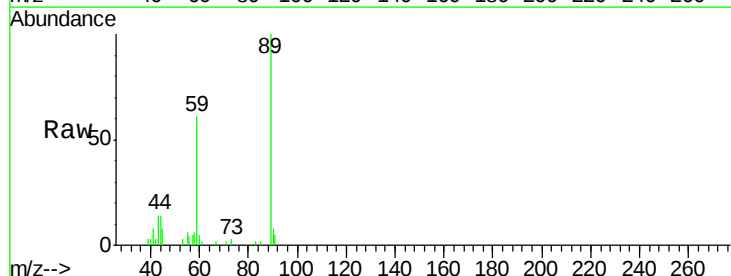
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 225.0 35.6 53.4#
141 100.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 9.190 ug/l
RT: 2.84 min Scan# 701
Delta R.T. 0.02 min
Lab File: VU024576.D
Acq: 15 Jun 2018 05:59

Tgt Ion: 59 Resp: 6814
Ion Ratio Lower Upper
59 100
57 1.0 8.5 12.7#





#13

Acrolein

Concen: 0.842 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

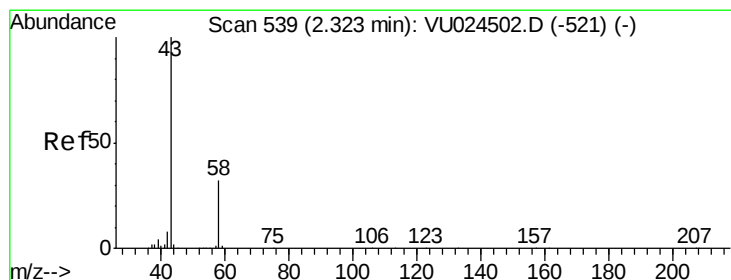
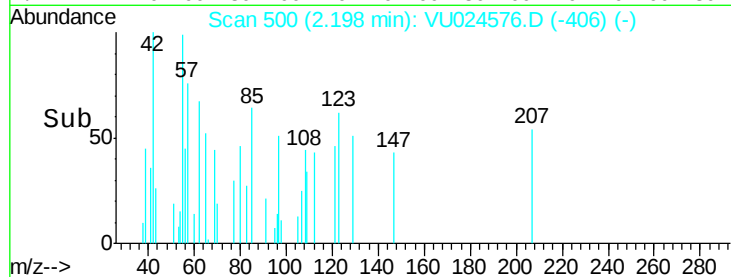
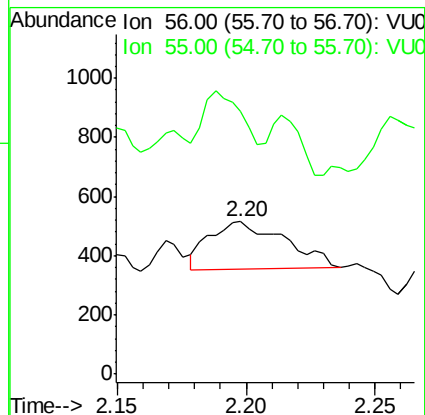
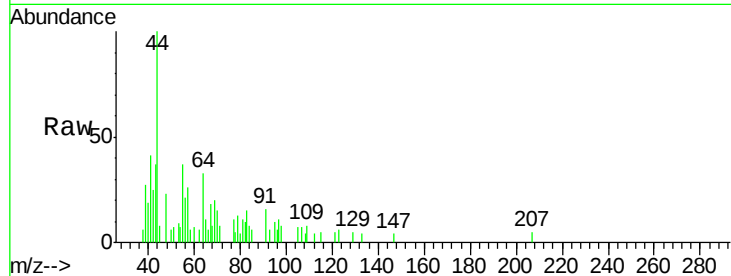
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 328

Ion Ratio Lower Upper

56 100

55 49.7 58.4 87.6#



#16

Acetone

Concen: 7.889 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024576.D

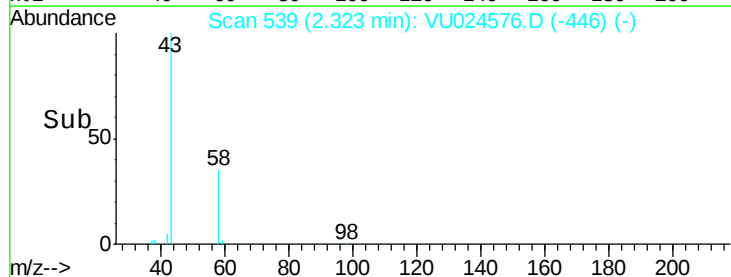
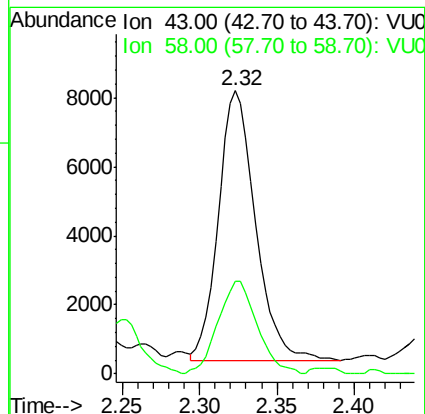
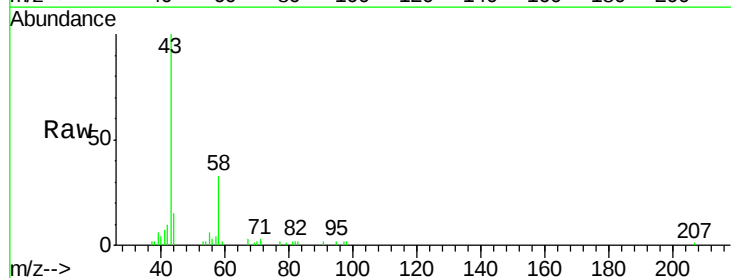
Acq: 15 Jun 2018 05:59

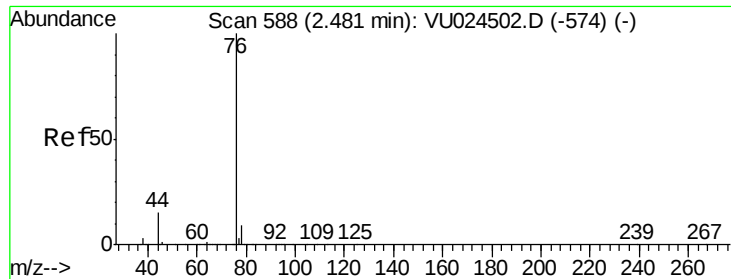
Tgt Ion: 43 Resp: 12922

Ion Ratio Lower Upper

43 100

58 33.2 24.4 36.6

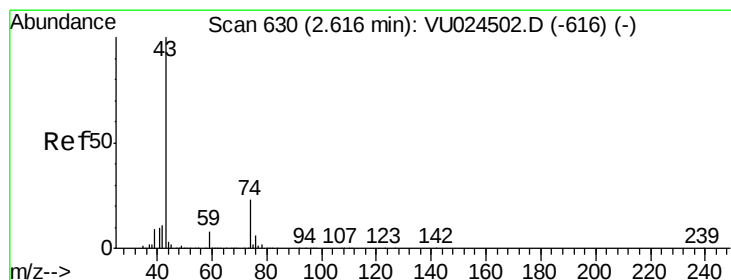
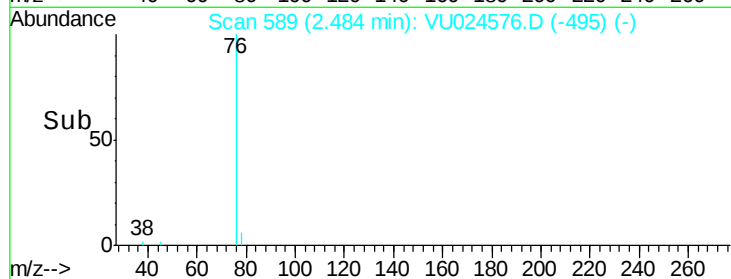
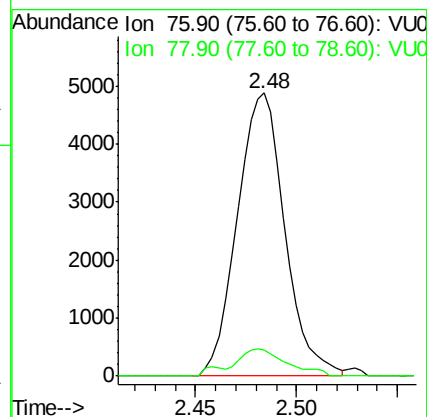
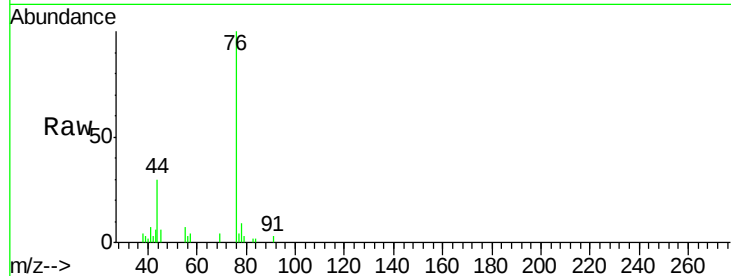




#17
Carbon Disulfide
Concen: 1.183 ug/l
RT: 2.48 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU024576.D
Acq: 15 Jun 2018 05:59

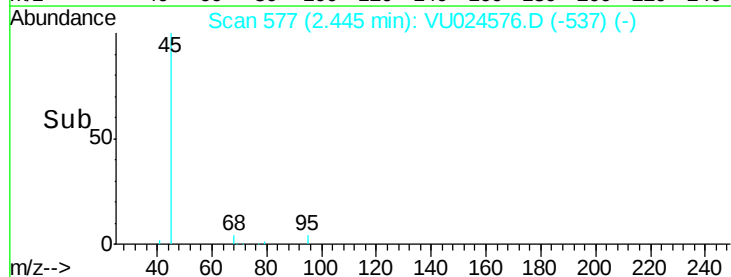
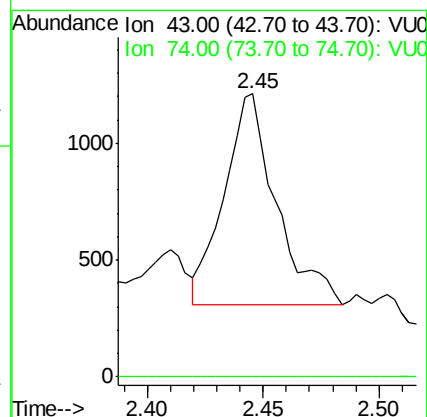
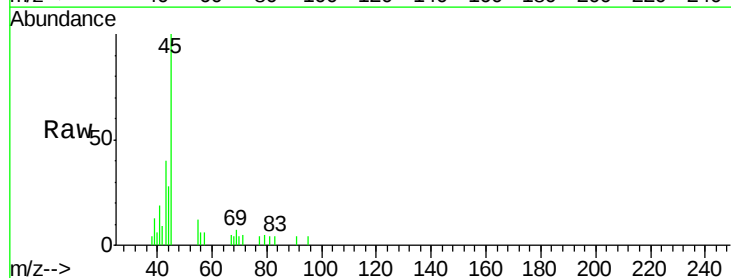
Instrument :
MSVOA_D
ClientSampled :

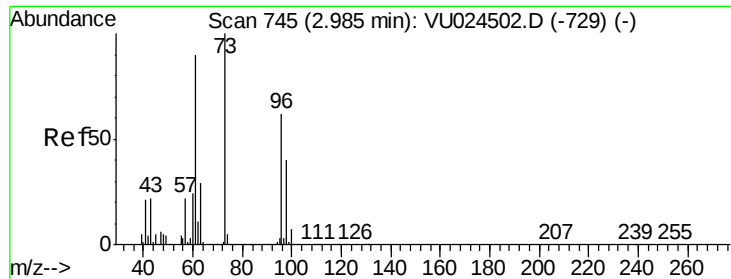
Tot Ion: 76 Resp: 8054
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7



#18
Methyl Acetate
Concen: 0.399 ug/l
RT: 2.45 min Scan# 577
Delta R.T. -0.17 min
Lab File: VU024576.D
Acq: 15 Jun 2018 05:59

Tgt Ion: 43 Resp: 1401
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#





#21

trans-1,2-Dichloroethene

Concen: 0.298 ug/l

RT: 3.00 min Scan# 748

Delta R.T. 0.01 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

ClientSampleId :

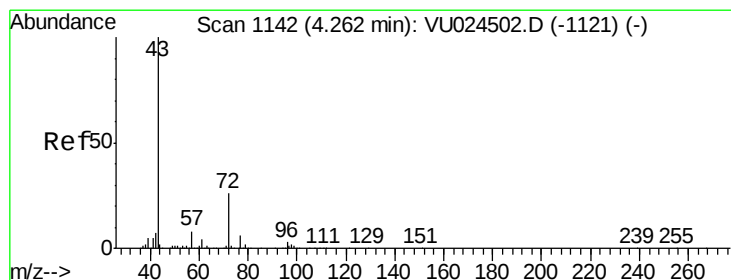
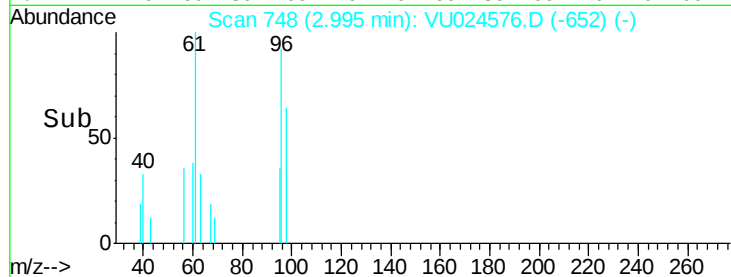
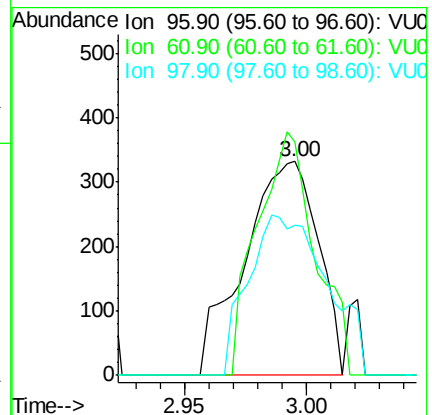
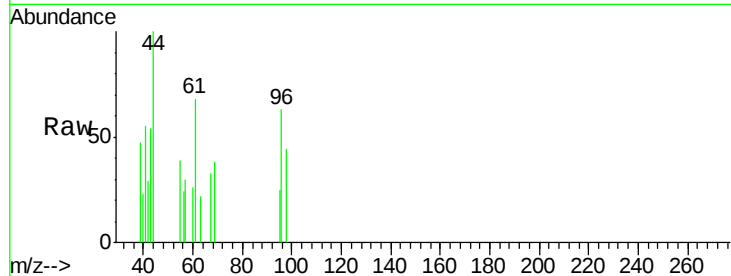
Tot Ion: 96 Resp: 698

Ion Ratio Lower Upper

96 100

61 109.0 119.4 179.0#

98 70.2 51.1 76.7



#25

2-Butanone

Concen: 5.267 ug/l

RT: 4.27 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU024576.D

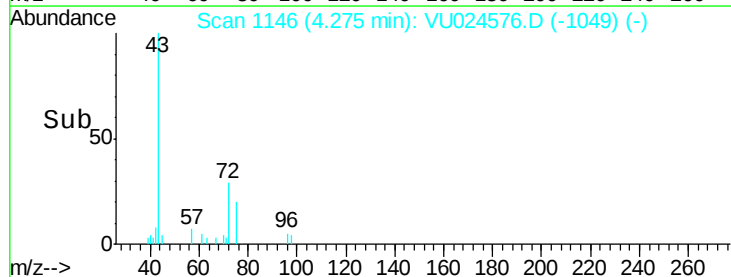
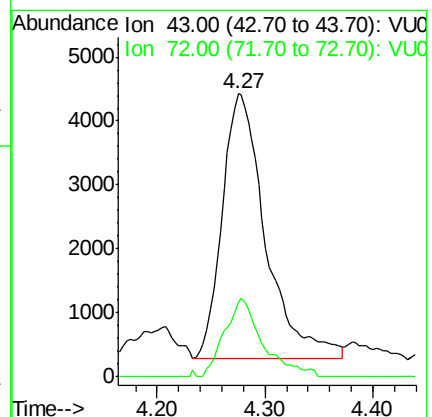
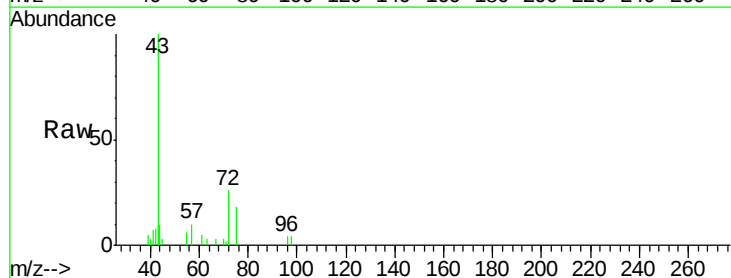
Acq: 15 Jun 2018 05:59

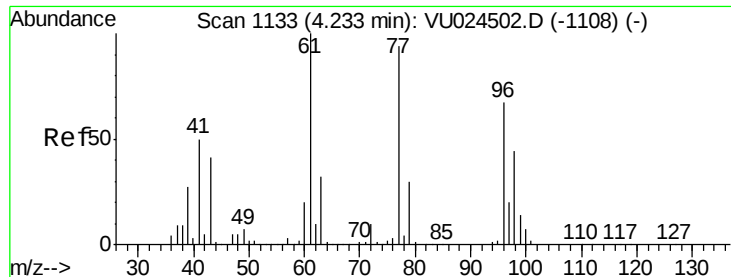
Tgt Ion: 43 Resp: 11588

Ion Ratio Lower Upper

43 100

72 28.3 19.6 29.4

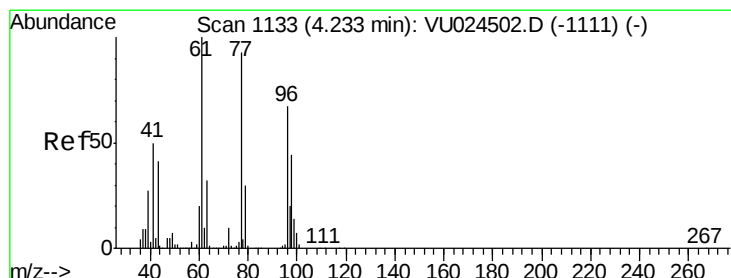
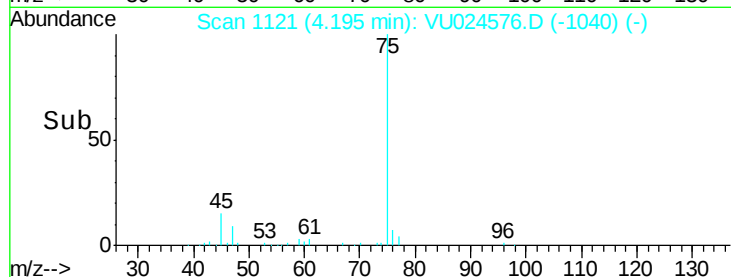
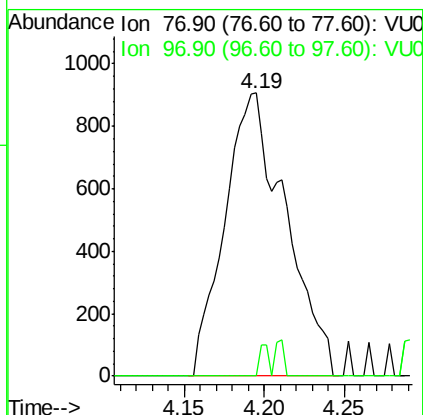
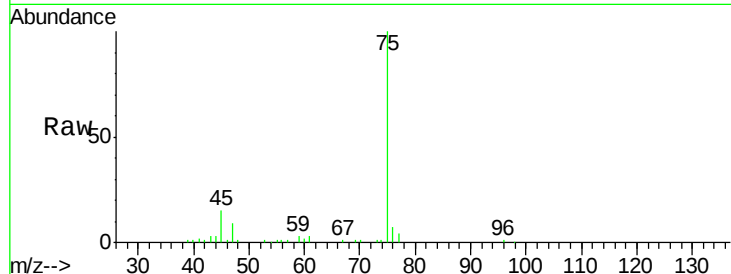




#26
 2,2-Dichloropropane
 Concen: 0.556 ug/l
 RT: 4.19 min Scan# 1121
 Delta R.T. -0.04 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

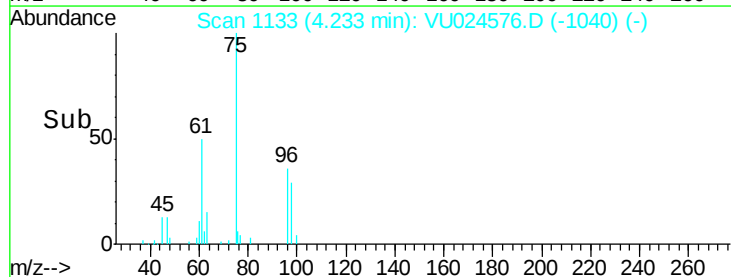
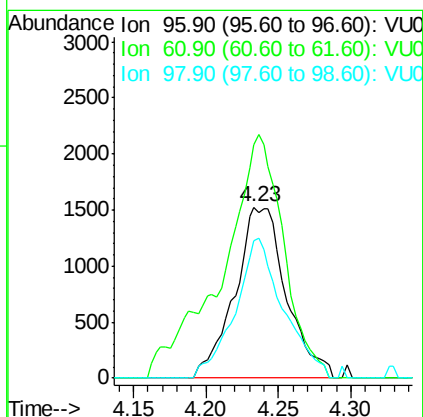
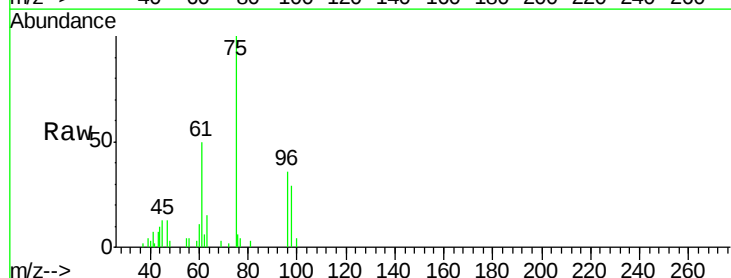
Instrument :
 MSVOA_D
 ClientSampled :

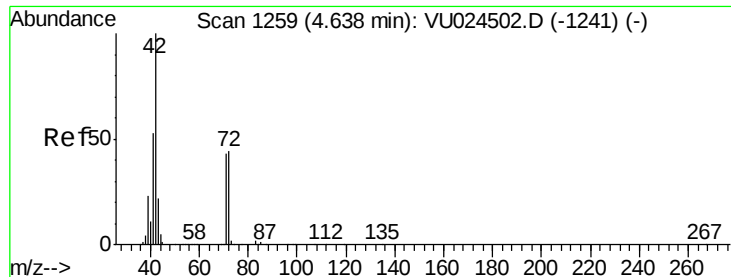
Tot Ion: 77 Resp: 2375
 Ion Ratio Lower Upper
 77 100
 97 1.6 11.3 33.8#



#27
 cis-1,2-Dichloroethene
 Concen: 1.397 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

Tgt Ion: 96 Resp: 3761
 Ion Ratio Lower Upper
 96 100
 61 170.1 0.0 306.6
 98 76.9 0.0 128.8





#29

Tetrahydrofuran

Concen: 3.276 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

ClientSampleId :

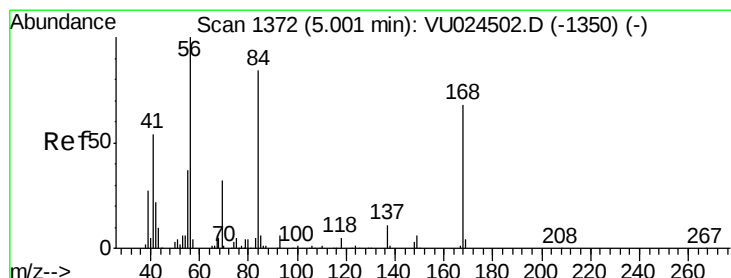
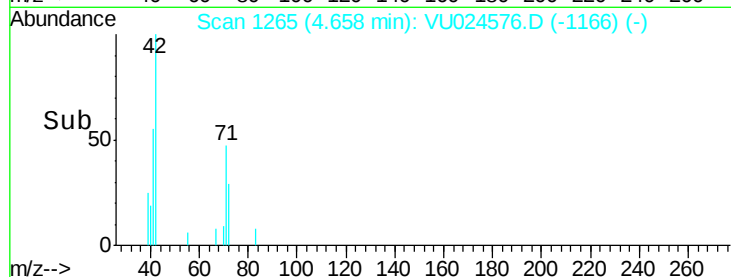
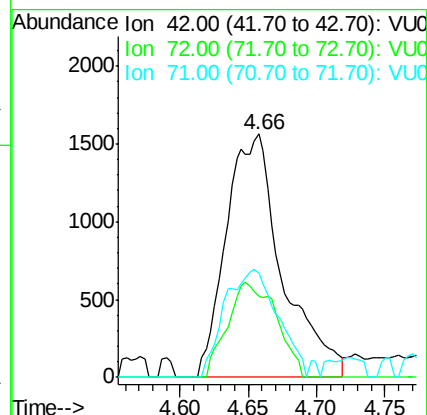
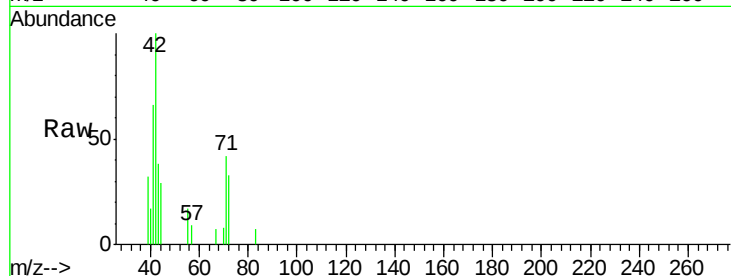
Tot Ion: 42 Resp: 4463

Ion Ratio Lower Upper

42 100

72 34.1 34.5 51.7#

71 41.8 32.2 48.4



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

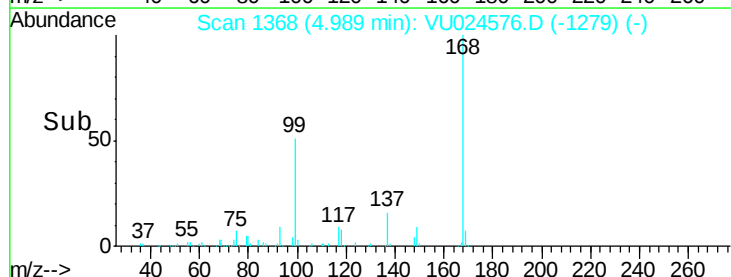
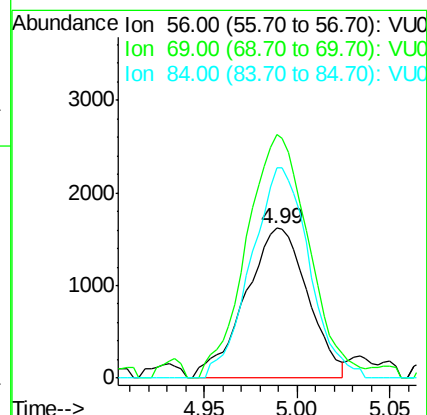
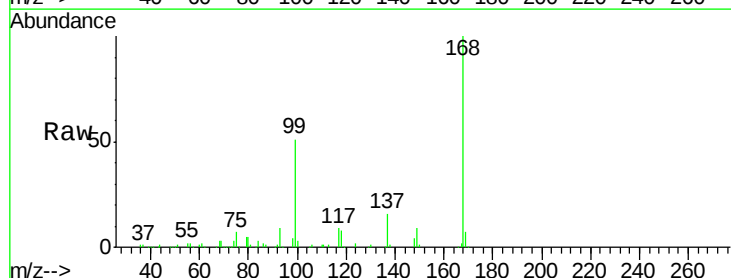
Tgt Ion: 56 Resp: 3800

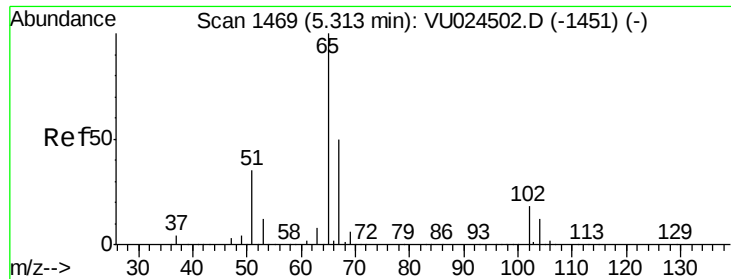
Ion Ratio Lower Upper

56 100

69 162.4 24.8 37.2#

84 140.4 65.2 97.8#

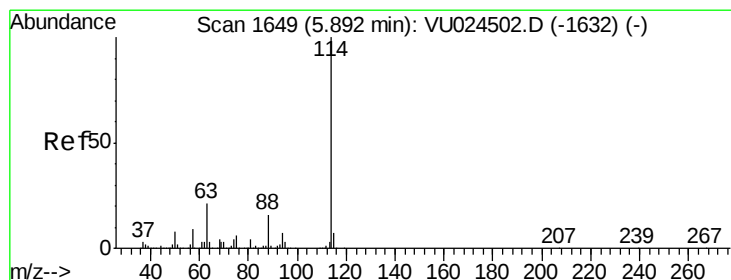
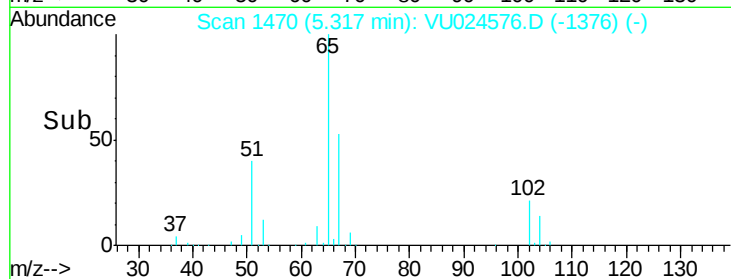
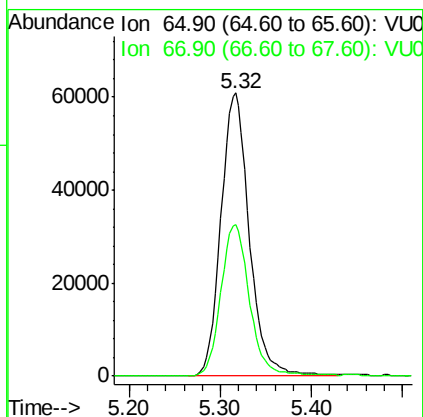
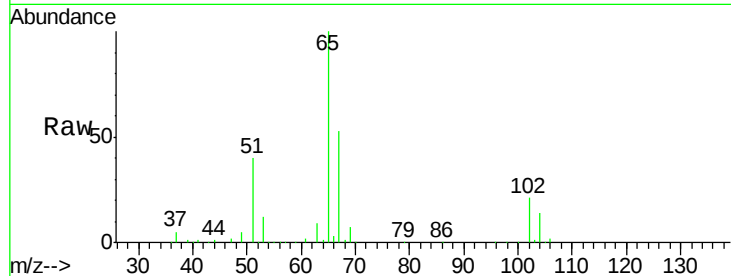




#33
 1,2-Dichloroethane-d4
 Concen: 43.305 ug/l
 RT: 5.32 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

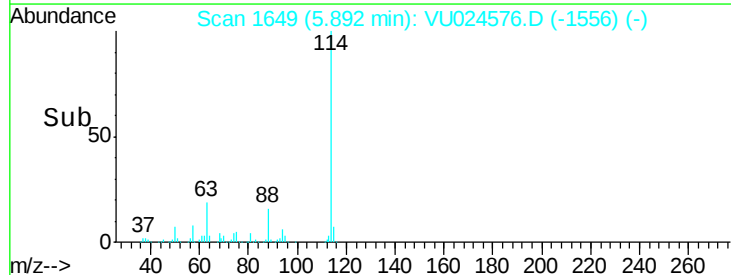
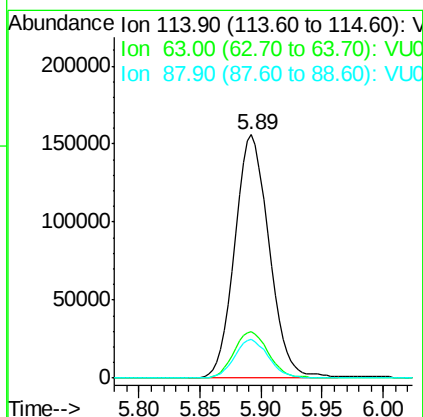
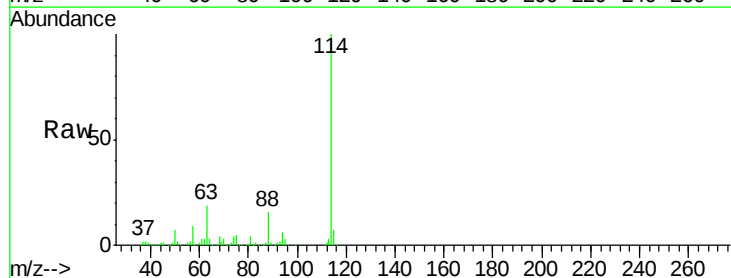
Instrument :
 MSVOA_D
 ClientSampleId :

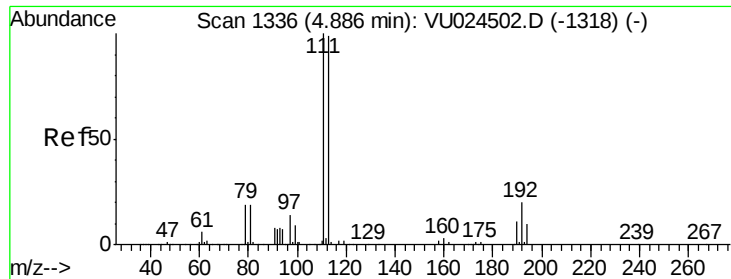
Tot Ion: 65 Resp: 132018
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

Tgt Ion: 114 Resp: 305133
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 45.4
 88 15.9 0.0 31.0

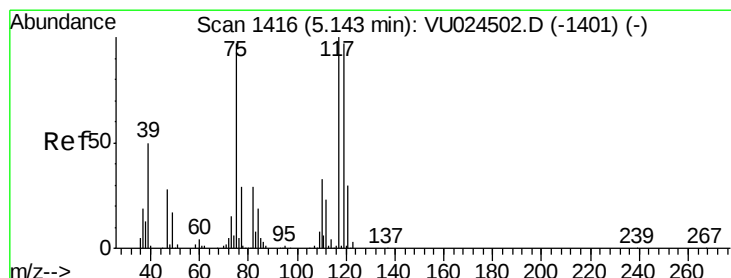
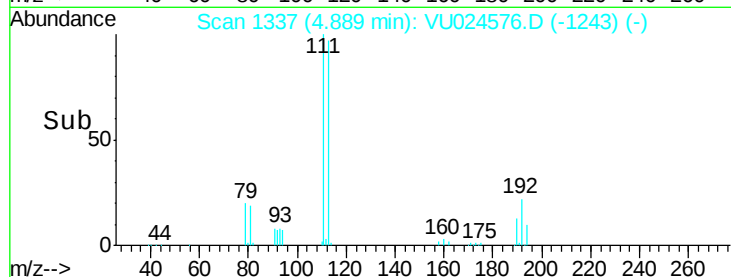
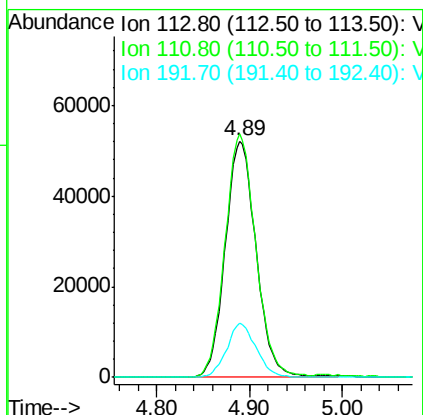
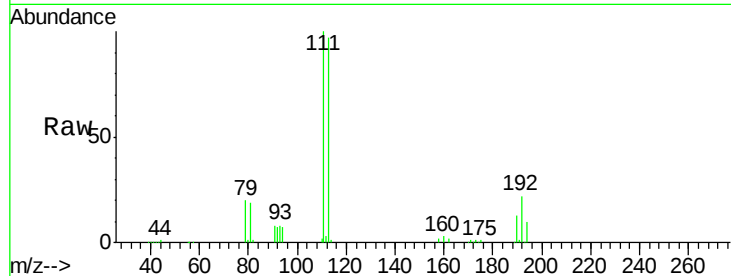




#35
 Dibromofluoromethane
 Concen: 47.647 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

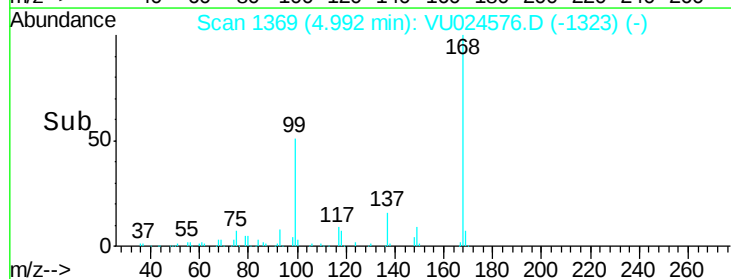
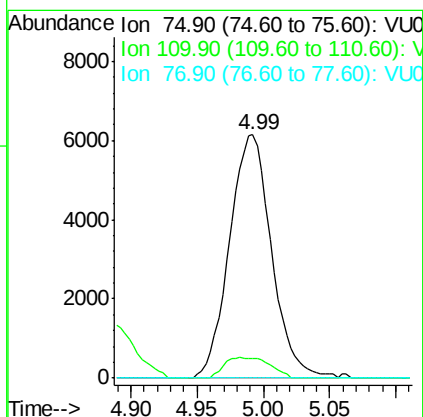
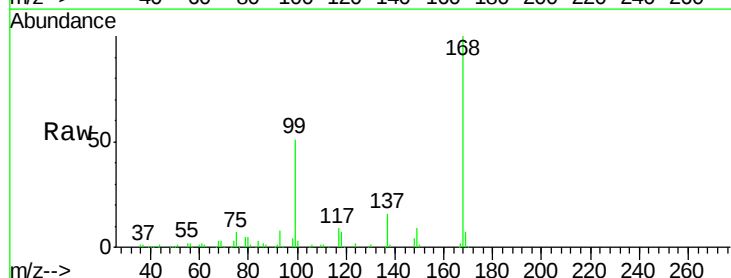
Instrument :
 MSVOA_D
 ClientSampleId :

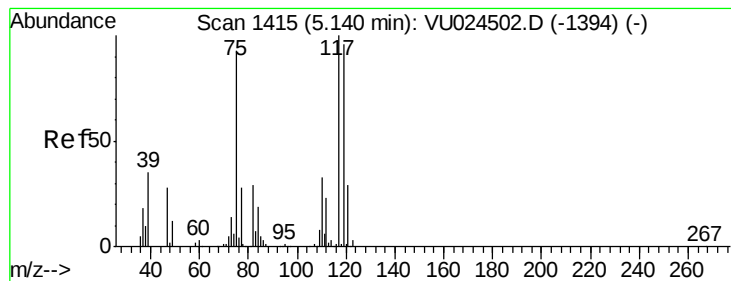
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	21.8	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 3.777 ug/l
 RT: 4.99 min Scan# 1369
 Delta R.T. -0.15 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.263 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

ClientSampleId :

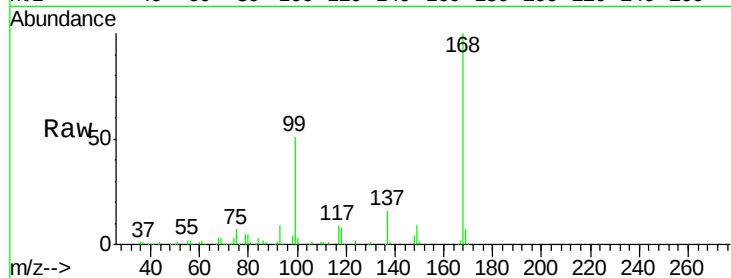
Tot Ion:117 Resp: 16809

Ion Ratio Lower Upper

117 100

119 5.0 76.1 114.1#

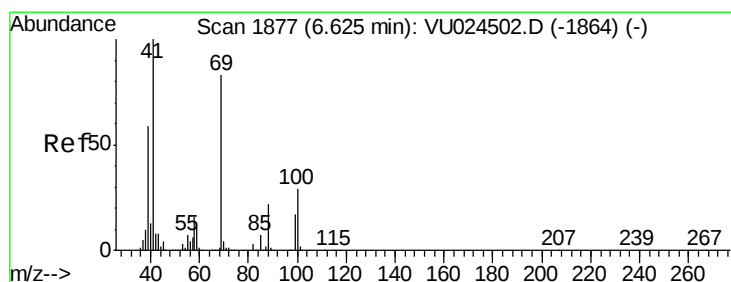
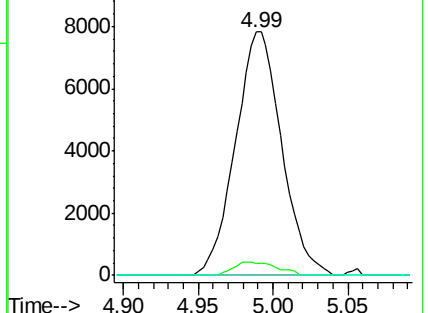
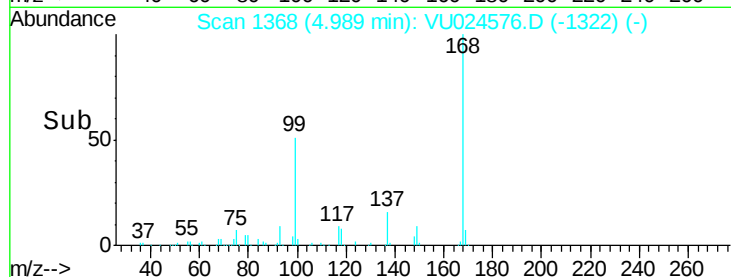
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 0.455 ug/l

RT: 6.54 min Scan# 1849

Delta R.T. -0.09 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

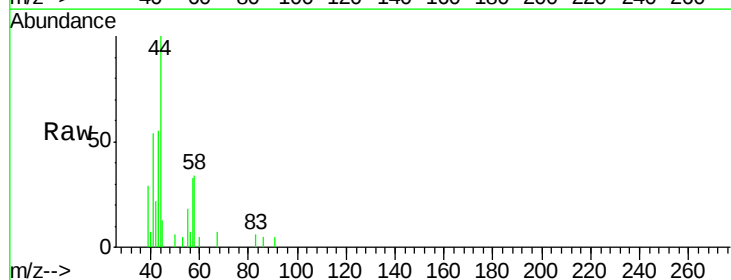
Tgt Ion: 41 Resp: 1498

Ion Ratio Lower Upper

41 100

69 4.1 67.3 100.9#

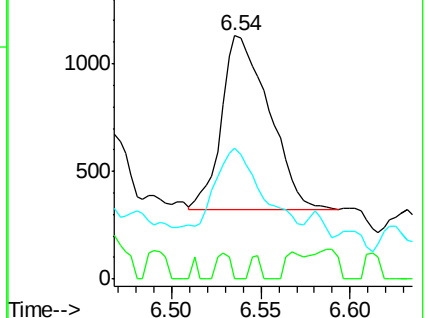
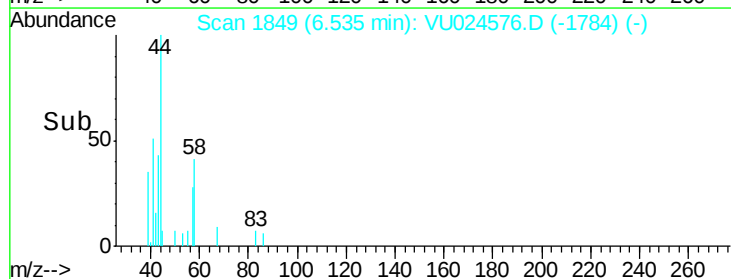
39 40.1 46.5 69.7#

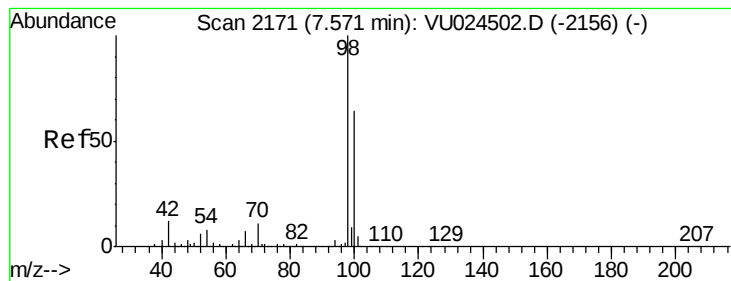


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#50

Toluene-d8

Concen: 48.489 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

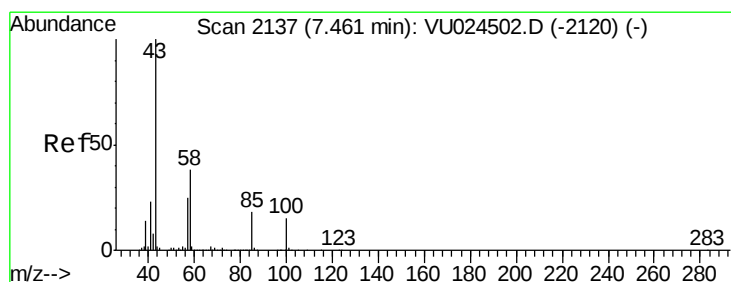
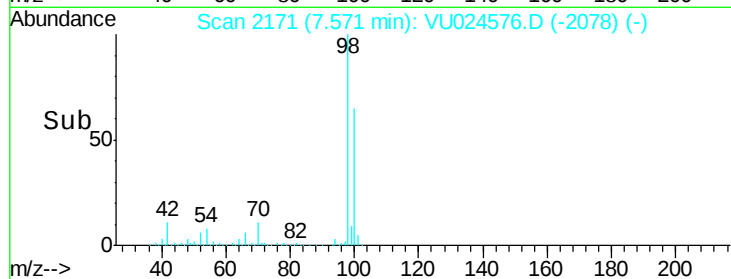
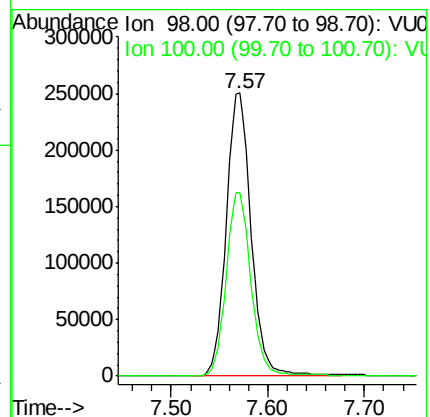
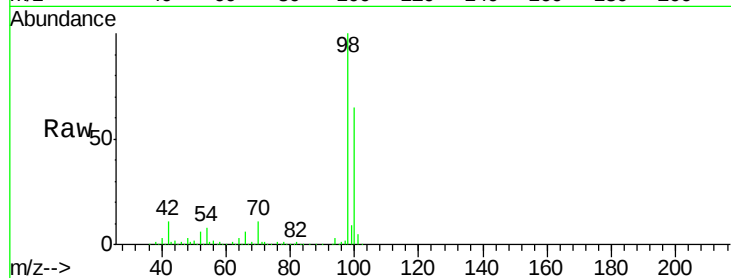
ClientSampleId :

Tot Ion: 98 Resp: 447891

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.720 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU024576.D

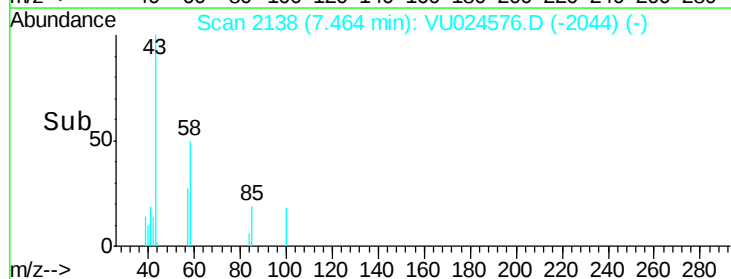
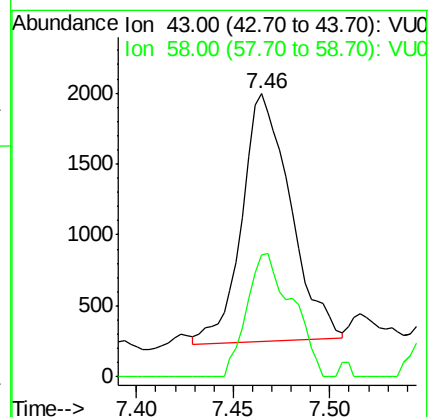
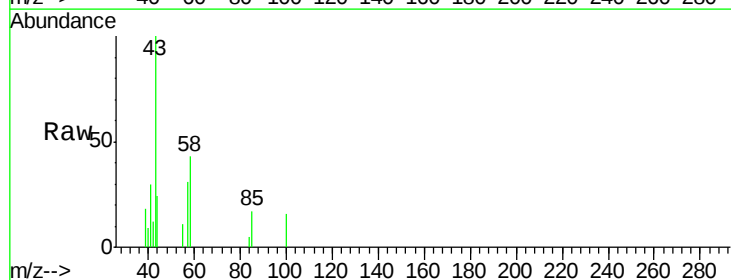
Acq: 15 Jun 2018 05:59

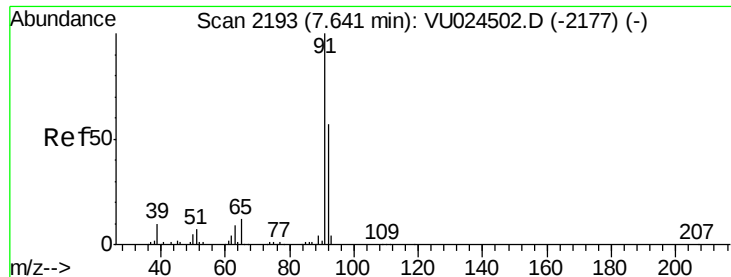
Tgt Ion: 43 Resp: 3056

Ion Ratio Lower Upper

43 100

58 46.4 30.0 45.0#





#52

Toluene

Concen: 0.242 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

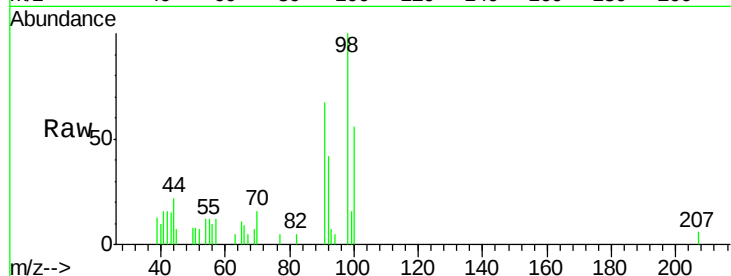
ClientSampleId :

Tot Ion: 92 Resp: 1591

Ion Ratio Lower Upper

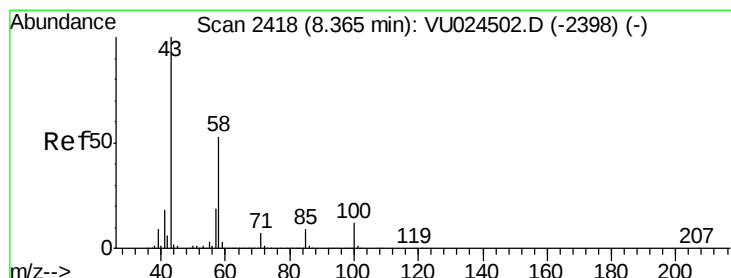
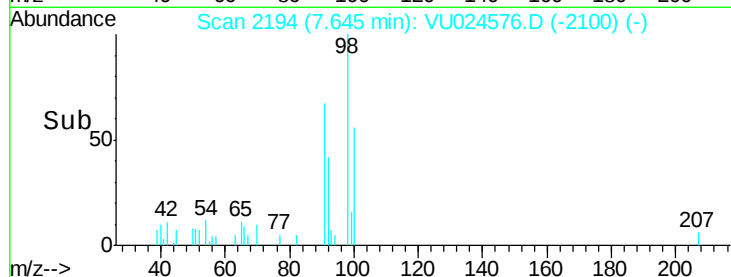
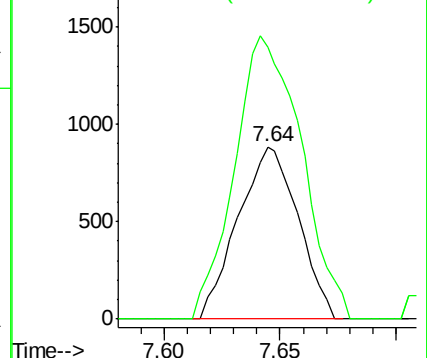
92 100

91 182.7 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#59

2-Hexanone

Concen: 11.489 ug/l

RT: 8.37 min Scan# 2419

Delta R.T. 0.00 min

Lab File: VU024576.D

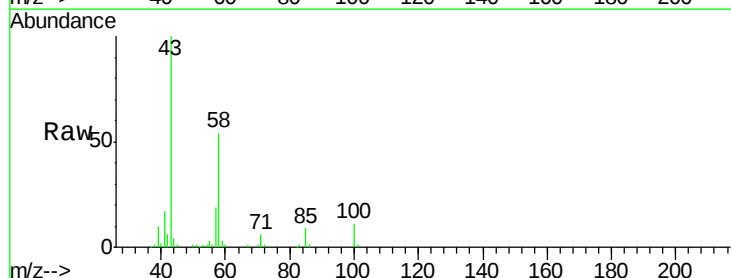
Acq: 15 Jun 2018 05:59

Tgt Ion: 43 Resp: 39808

Ion Ratio Lower Upper

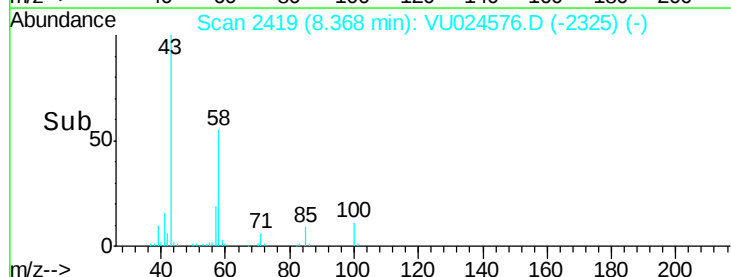
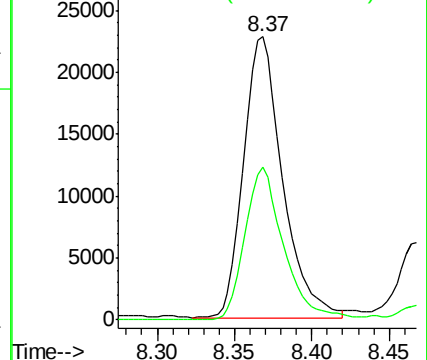
43 100

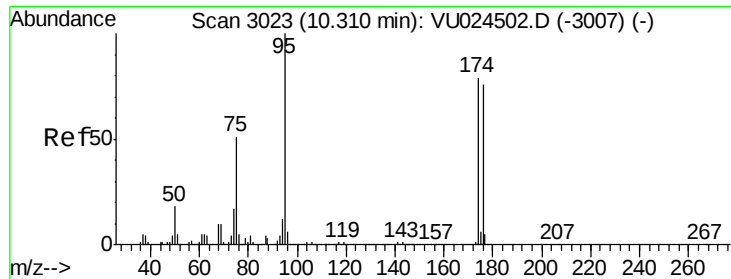
58 54.1 26.4 79.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

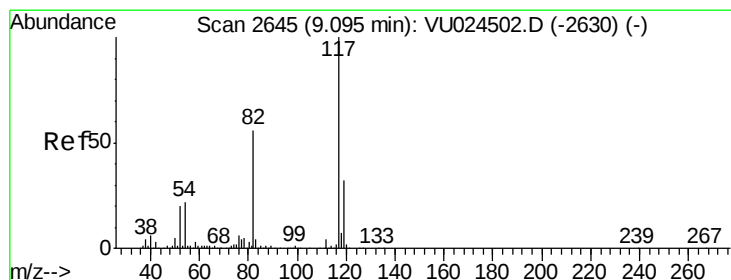
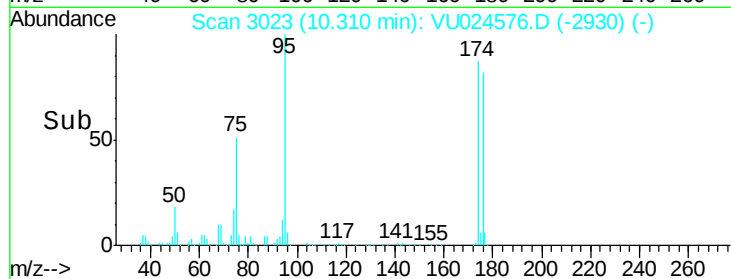
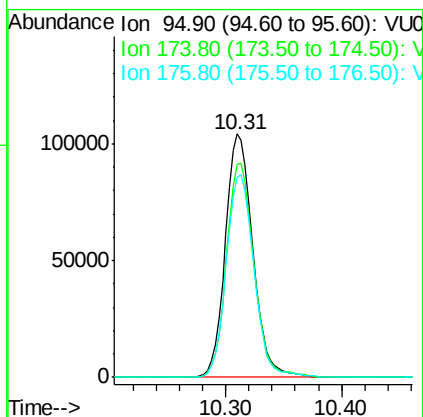
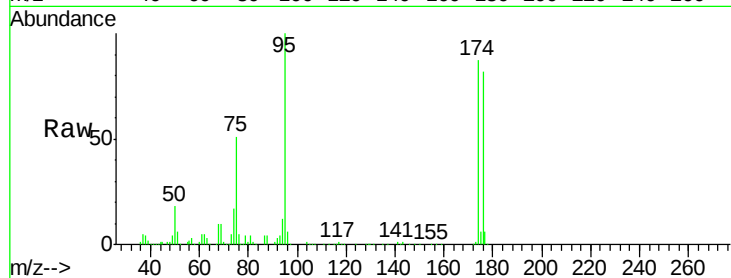




#62
4-Bromofluorobenzene
Concen: 46.603 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024576.D
Acq: 15 Jun 2018 05:59

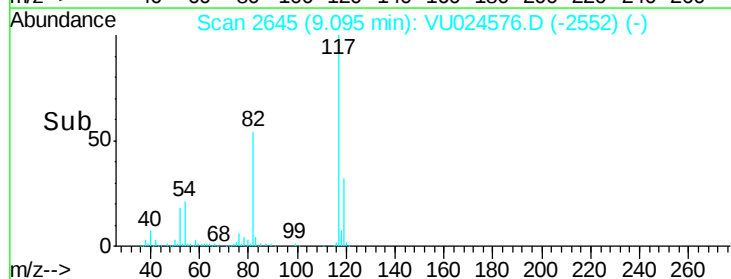
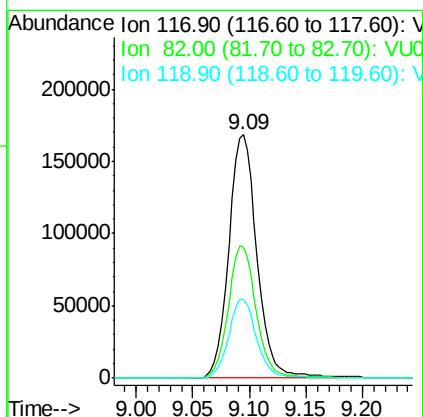
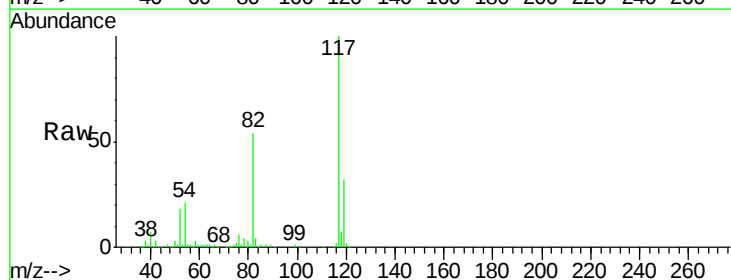
Instrument :
MSVOA_D
ClientSampleId :

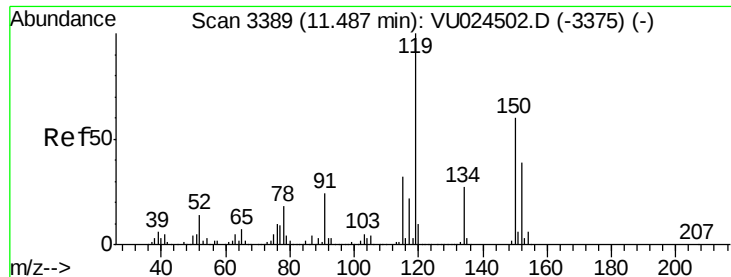
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	165.8
176	84.2	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024576.D
Acq: 15 Jun 2018 05:59

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.9	44.3	66.5
119	32.4	25.4	38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

ClientSampled :

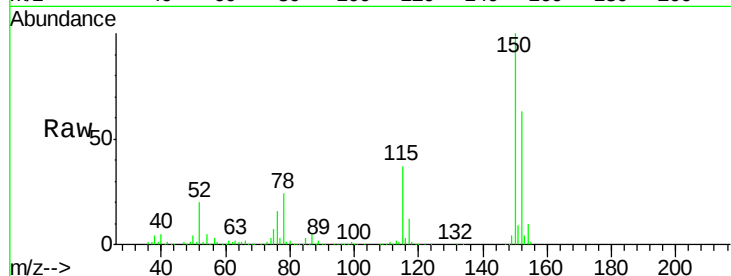
Tot Ion:152 Resp: 175342

Ion Ratio Lower Upper

152 100

115 56.2 43.0 129.0

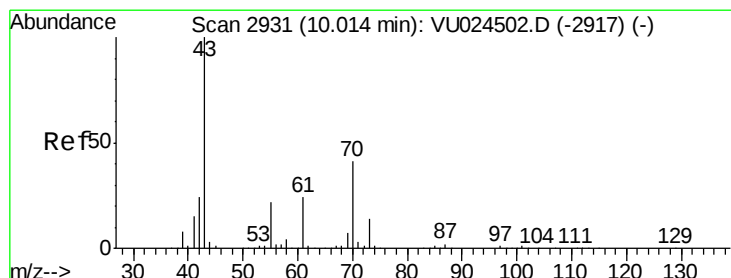
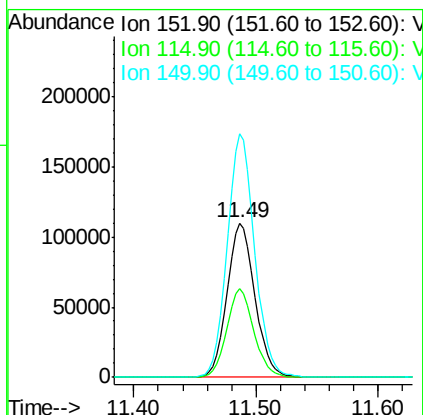
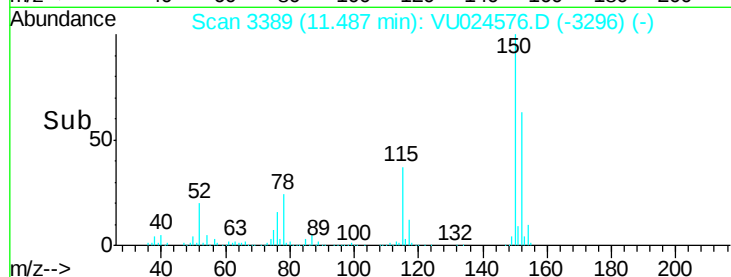
150 155.9 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 20.747 ug/l

RT: 9.92 min Scan# 2902

Delta R.T. -0.09 min

Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Tgt Ion: 43 Resp: 132847

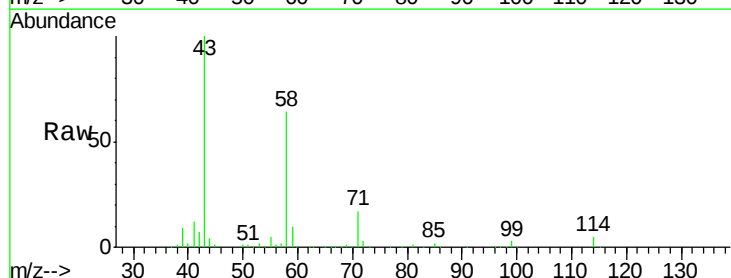
Ion Ratio Lower Upper

43 100

70 0.6 32.2 48.4#

55 5.2 20.5 30.7#

61 0.0 18.7 28.1#

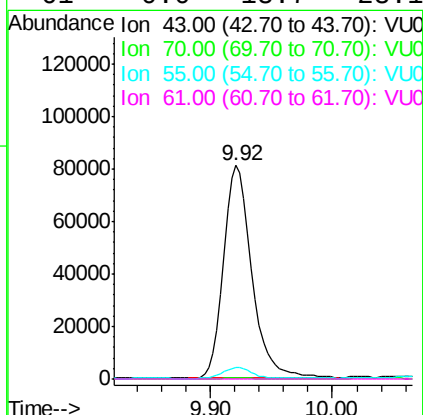
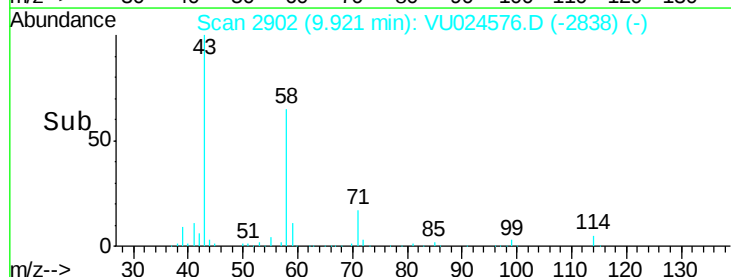


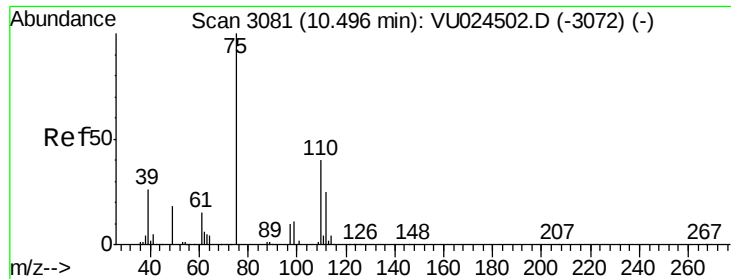
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

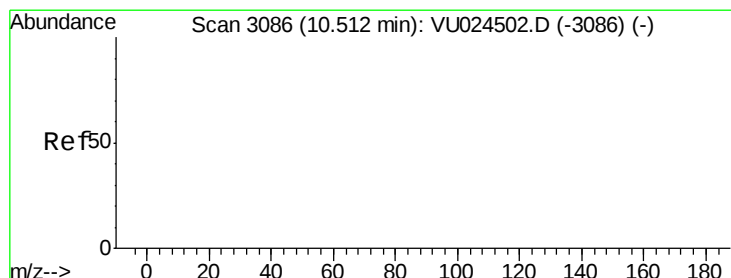
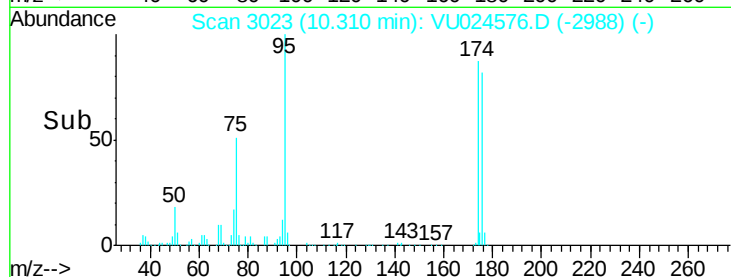
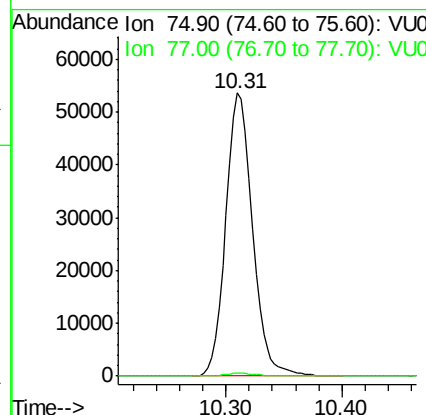
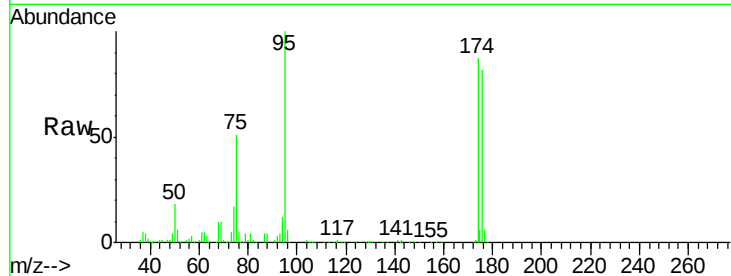




#76
 1,2,3-Trichloropropane
 Concen: 22.221 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

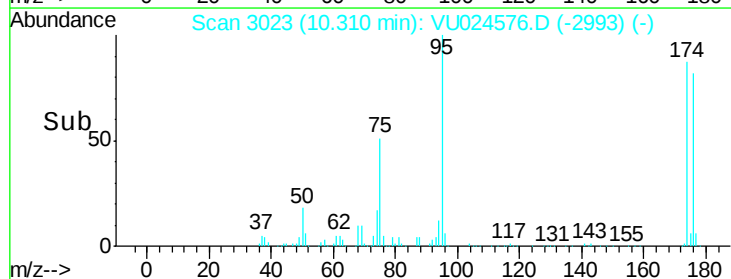
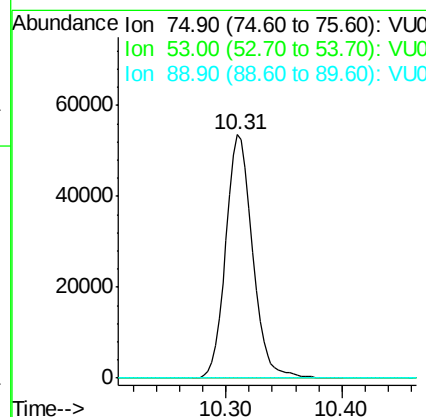
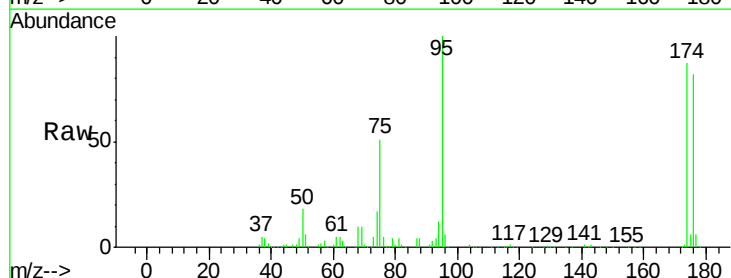
Instrument :
 MSVOA_D
 ClientSampleId :

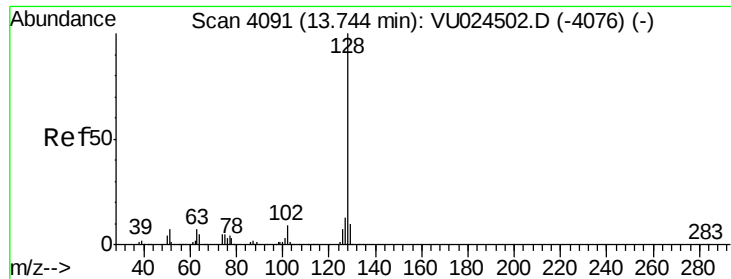
Tot Ion: 75 Resp: 85780
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 51.428 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024576.D
 Acq: 15 Jun 2018 05:59

Tgt Ion: 75 Resp: 85780
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.1 0.0 0.0#





#95

Naphthalene

Concen: 0.684 ug/l

RT: 13.76 min Scan# 4096

Delta R.T. 0.02 min

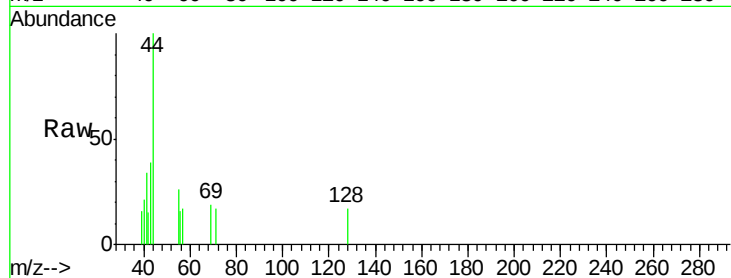
Lab File: VU024576.D

Acq: 15 Jun 2018 05:59

Instrument :

MSVOA_D

ClientSampleId :



Tot Ion:	128	Resp:	66
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	12.8#

