

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024844.D
 Acq On : 22 Jun 2018 20:14
 Operator : MD/SY
 Sample : J3561-02DL 20X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 23 02:15:41 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	202868	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308966	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	155590	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	145238	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	
35) Dibromofluoromethane	4.89	113	119857	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	7.57	98	454916	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
62) 4-Bromofluorobenzene	10.31	95	167668	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	

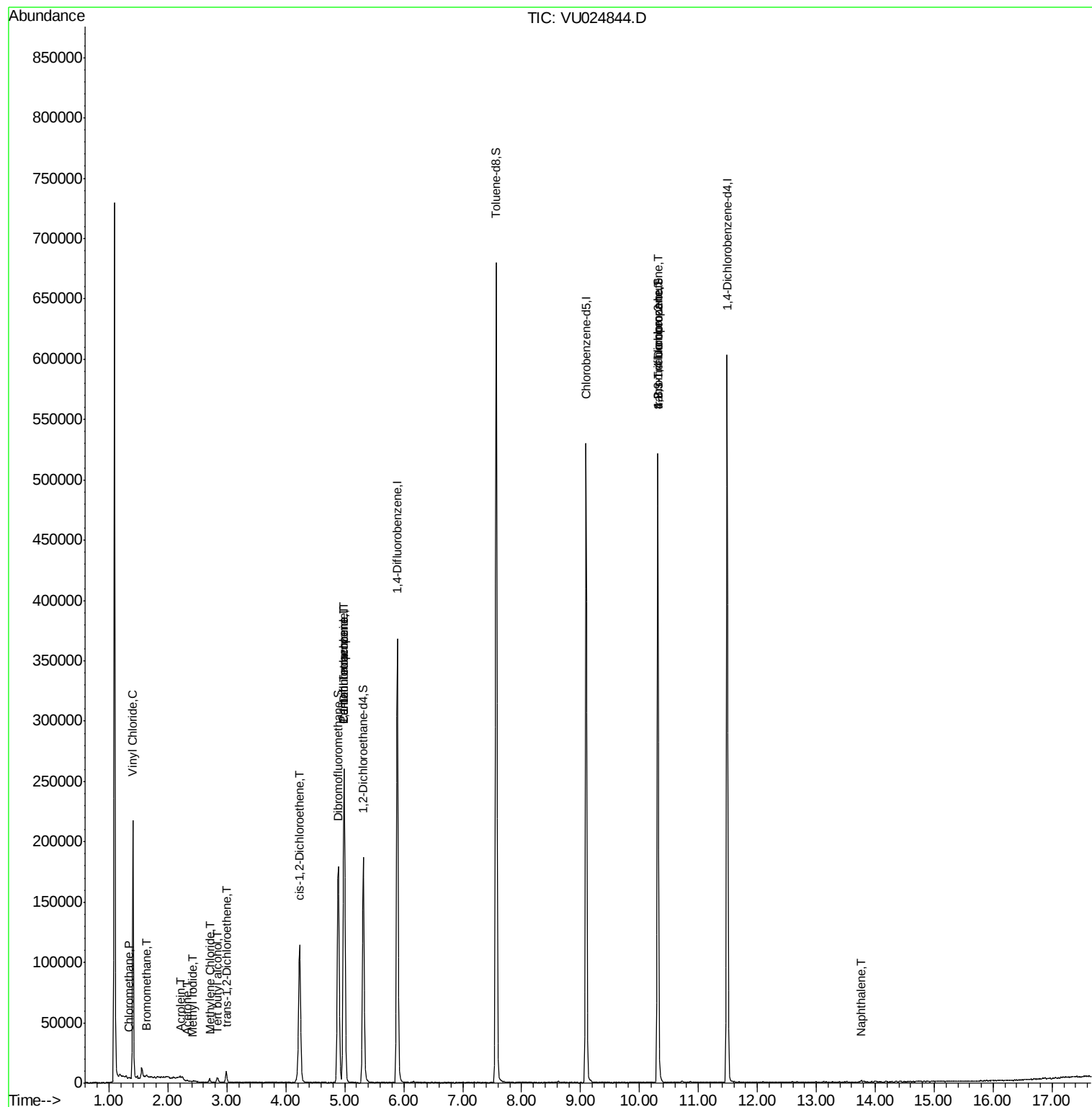
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	710	0.27	ug/l	89
4) Vinyl Chloride	1.40	62	135487	50.64	ug/l	98
5) Bromomethane	1.64	94	478	0.37	ug/l	87
10) Methyl Iodide	2.41	142	135	5.34	ug/l #	64
11) Tert butyl alcohol	2.84	59	2063	2.56	ug/l #	72
13) Acrolein	2.20	56	500	1.18	ug/l #	33
16) Acetone	2.32	43	1059	0.60	ug/l	96
20) Methylene Chloride	2.71	84	1239	0.44	ug/l	86
21) trans-1,2-Dichloroethene	2.99	96	3728	1.47	ug/l #	82
27) cis-1,2-Dichloroethene	4.23	96	64568	22.07	ug/l	87
31) Cyclohexane	4.99	56	4239	Below Cal	#	18
36) 1,1-Dichloropropene	4.99	75	15154	4.17	ug/l #	51
38) Carbon Tetrachloride	4.99	117	19177	4.80	ug/l #	15
76) 1,2,3-Trichloropropane	10.31	75	86600	25.28	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	86600	58.51	ug/l #	100
95) Naphthalene	13.76	128	2003	0.85	ug/l #	79

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024844.D

Acq: 22 Jun 2018 20:14

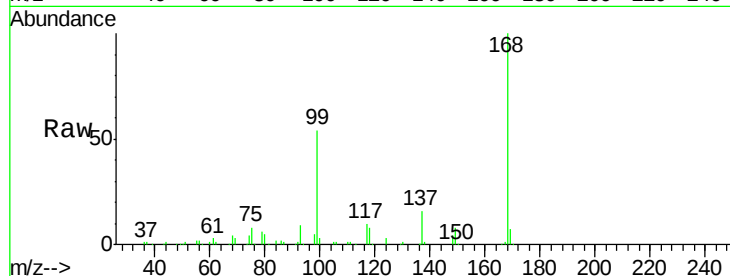
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 202868

Ion Ratio Lower Upper

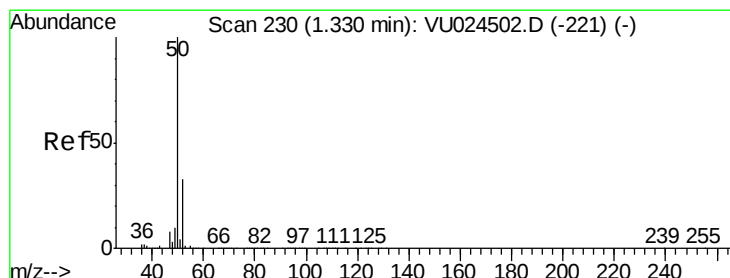
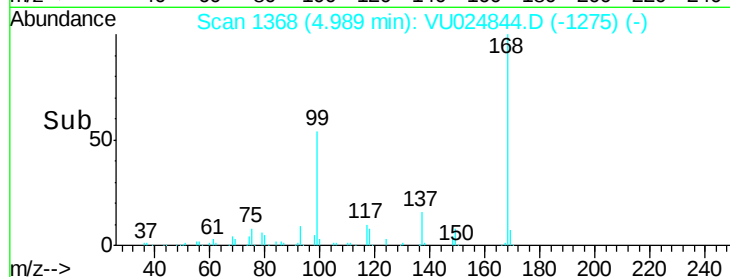
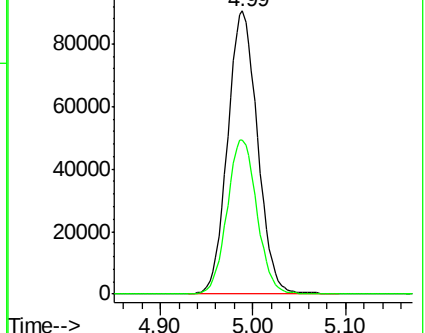
168 100

99 54.4 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) (-)



#3

Chloromethane

Concen: 0.27 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024844.D

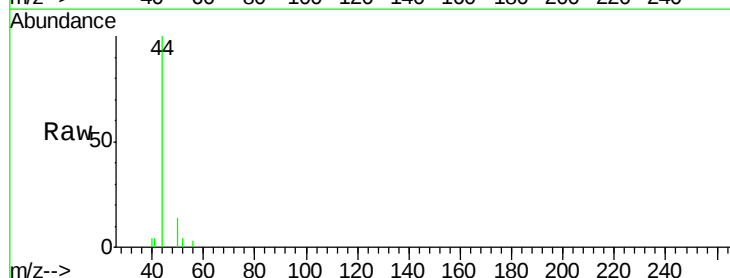
Acq: 22 Jun 2018 20:14

Tgt Ion: 50 Resp: 710

Ion Ratio Lower Upper

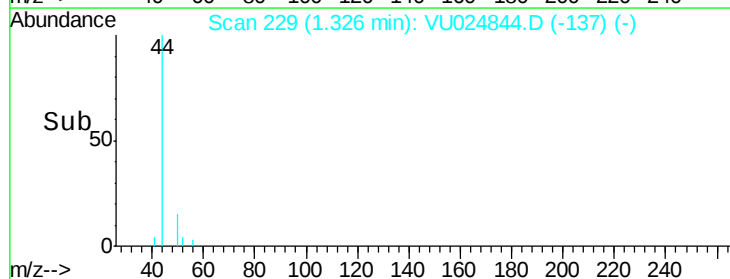
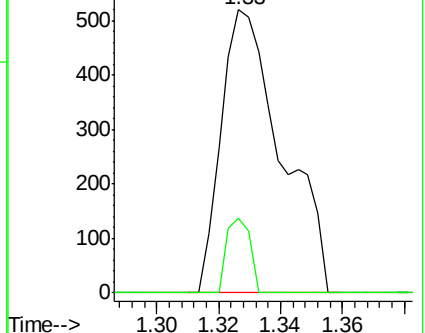
50 100

52 26.5 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#4

Vinyl Chloride

Concen: 50.64 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024844.D

Acq: 22 Jun 2018 20:14

Instrument :

MSVOA_U

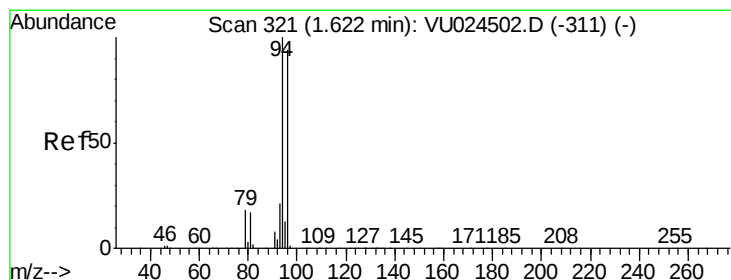
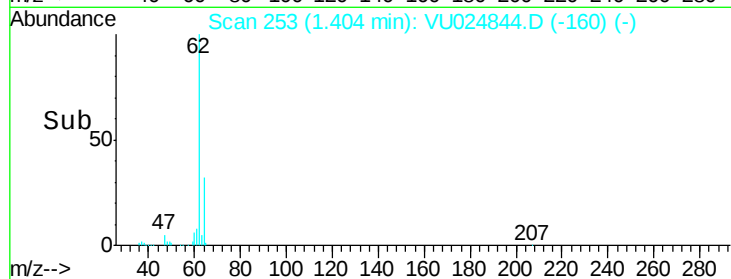
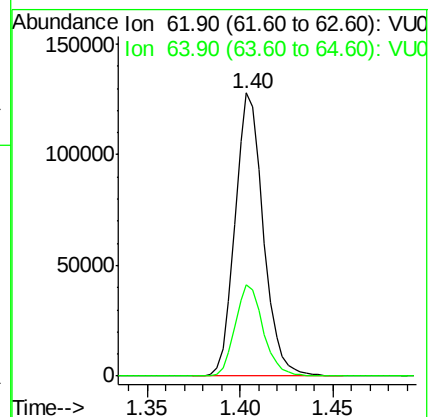
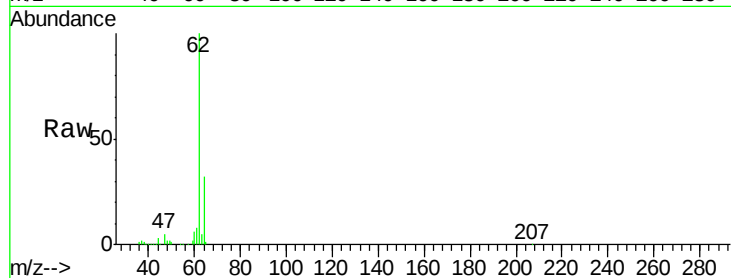
ClientSampled :

Tot Ion: 62 Resp: 135487

Ion Ratio Lower Upper

62 100

64 32.1 24.8 37.2



#5

Bromomethane

Concen: 0.37 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024844.D

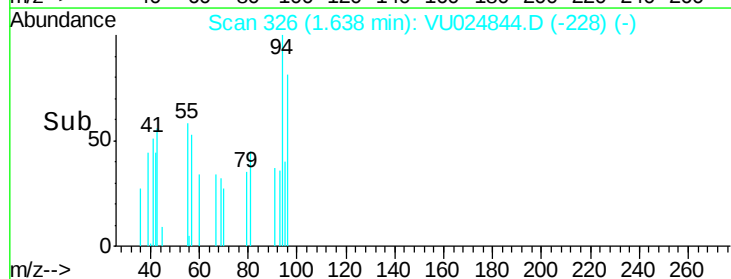
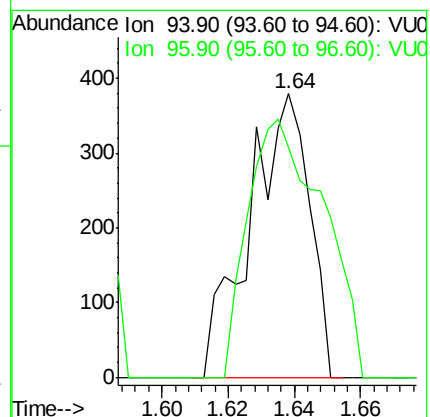
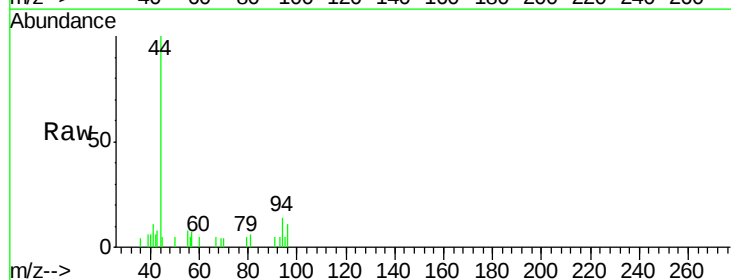
Acq: 22 Jun 2018 20:14

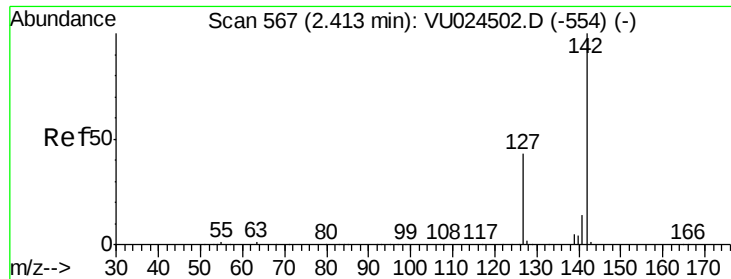
Tgt Ion: 94 Resp: 478

Ion Ratio Lower Upper

94 100

96 81.0 74.5 111.7

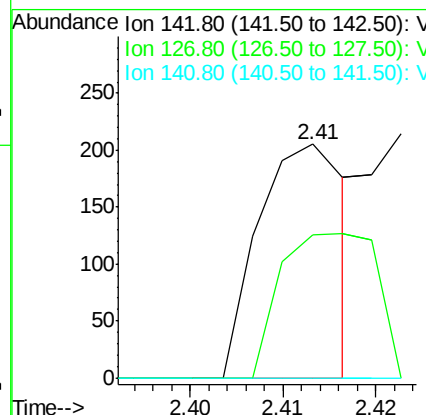
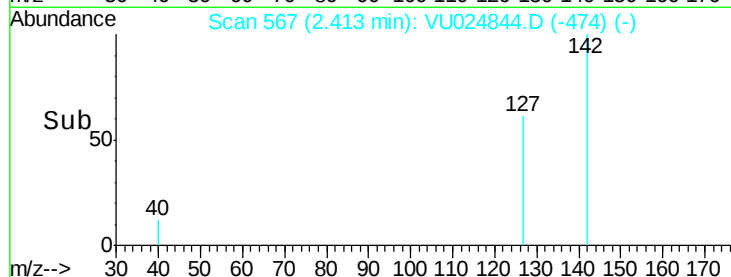
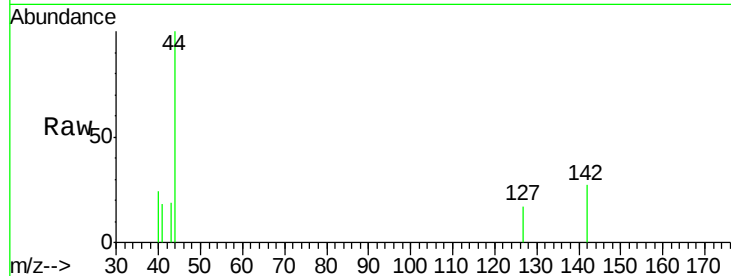




#10
Methvl Iodide
Concen: 5.34 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU024844.D
Acq: 22 Jun 2018 20:14

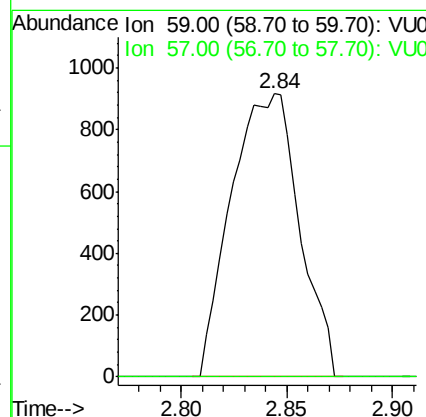
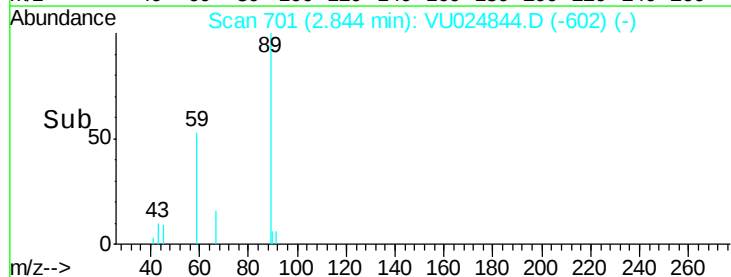
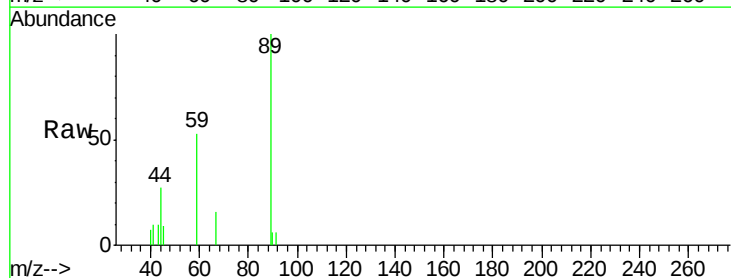
Instrument :
MSVOA_U
ClientSampleId :

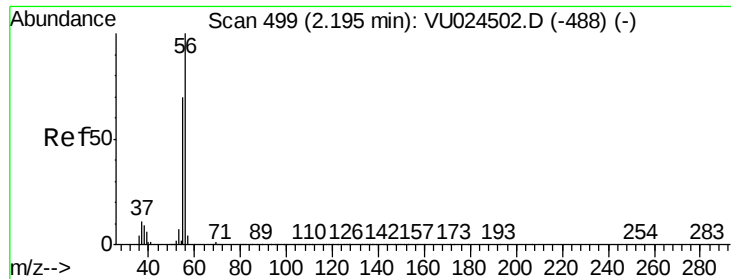
Tot Ion:142 Resp: 135
Ion Ratio Lower Upper
142 100
127 68.1 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 2.56 ug/l
RT: 2.84 min Scan# 701
Delta R.T. 0.02 min
Lab File: VU024844.D
Acq: 22 Jun 2018 20:14

Tgt Ion: 59 Resp: 2063
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 1.18 ug/l

RT: 2.20 min Scan# 501

Delta R.T. 0.01 min

Lab File: VU024844.D

Acq: 22 Jun 2018 20:14

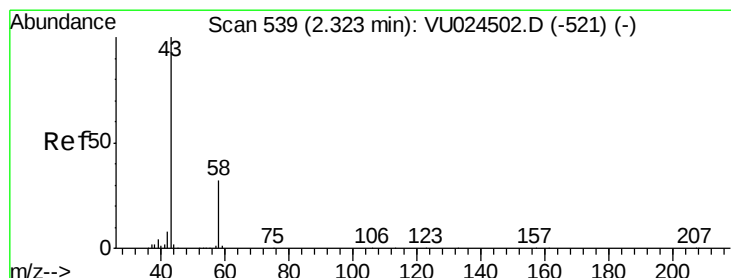
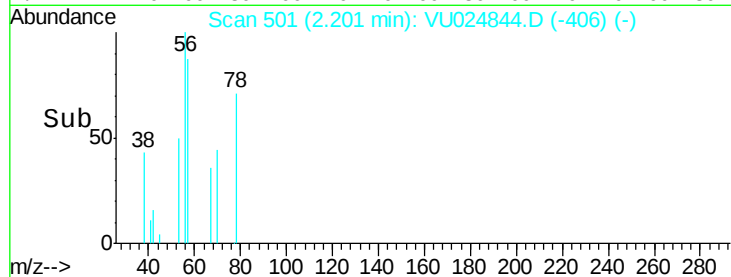
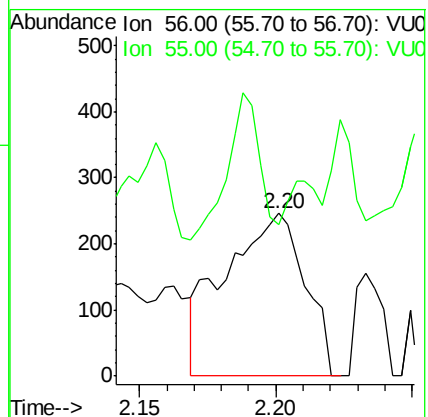
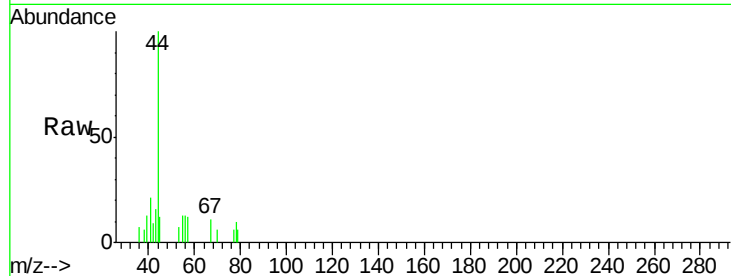
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 500

Ion Ratio Lower Upper

56 100

55 16.6 58.4 87.6#



#16

Acetone

Concen: 0.60 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024844.D

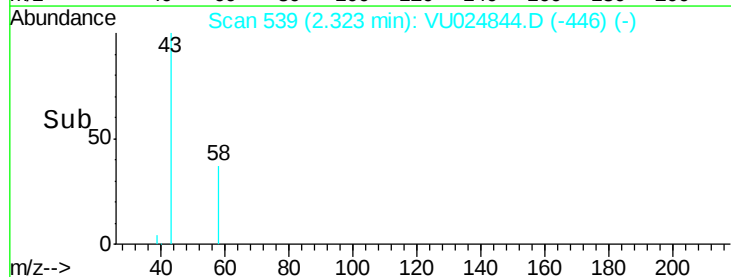
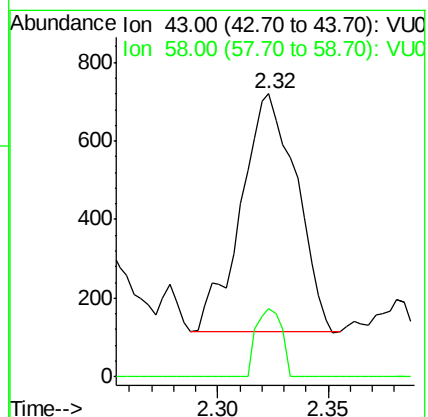
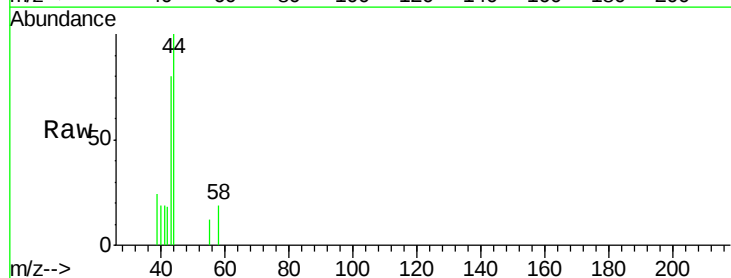
Acq: 22 Jun 2018 20:14

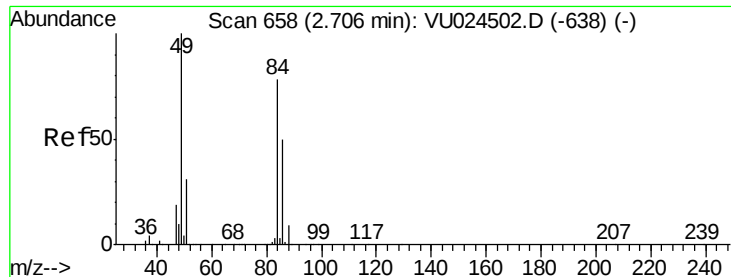
Tgt Ion: 43 Resp: 1059

Ion Ratio Lower Upper

43 100

58 28.4 24.4 36.6

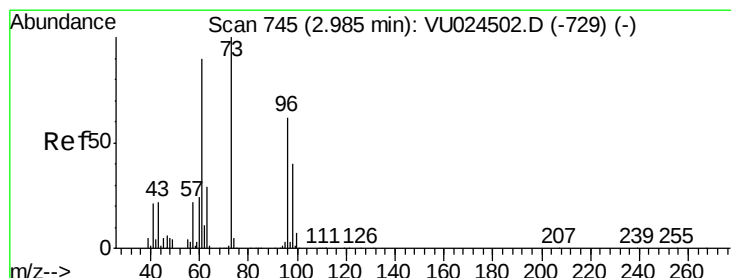
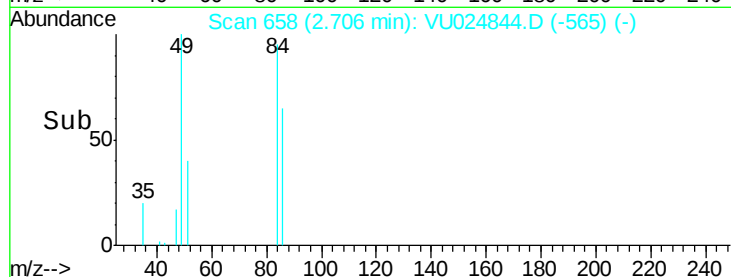
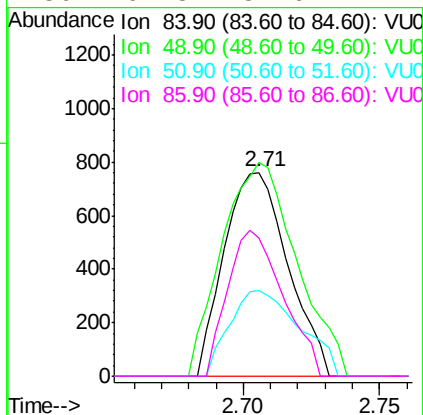
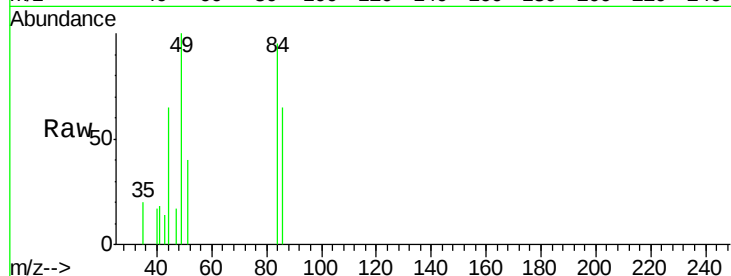




#20
Methvlene Chloride
Concen: 0.44 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU024844.D
Acq: 22 Jun 2018 20:14

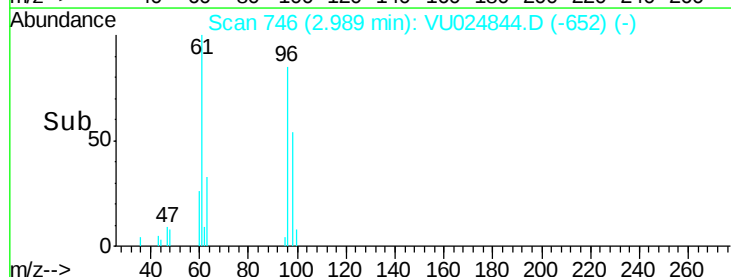
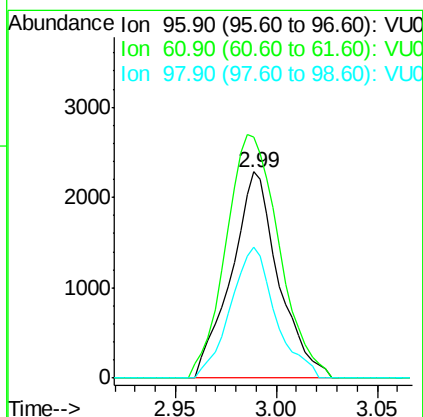
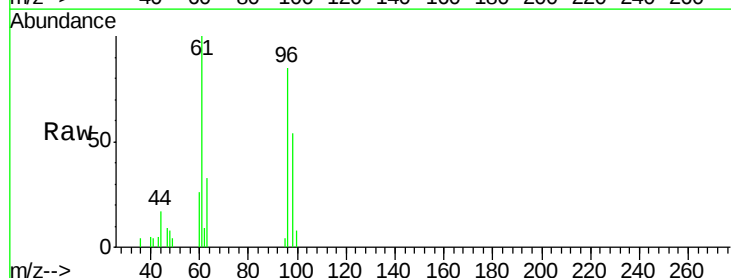
Instrument :
MSVOA_U
ClientSampled :

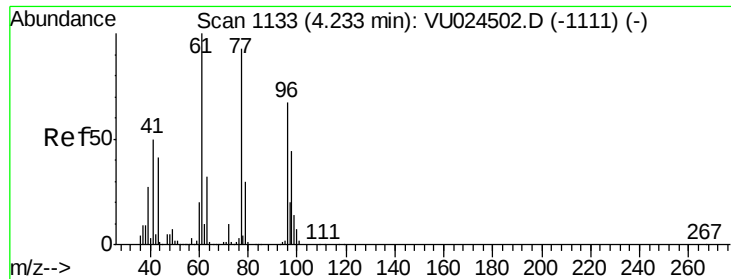
Tot Ion: 84 Resp: 1239
Ion Ratio Lower Upper
84 100
49 104.7 103.8 155.8
51 42.0 32.0 48.0
86 67.8 51.6 77.4



#21
trans-1,2-Dichloroethene
Concen: 1.47 ug/l
RT: 2.99 min Scan# 746
Delta R.T. 0.00 min
Lab File: VU024844.D
Acq: 22 Jun 2018 20:14

Tgt Ion: 96 Resp: 3728
Ion Ratio Lower Upper
96 100
61 117.0 119.4 179.0#
98 63.5 51.1 76.7

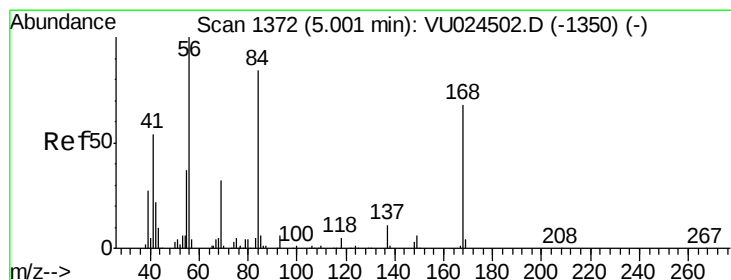
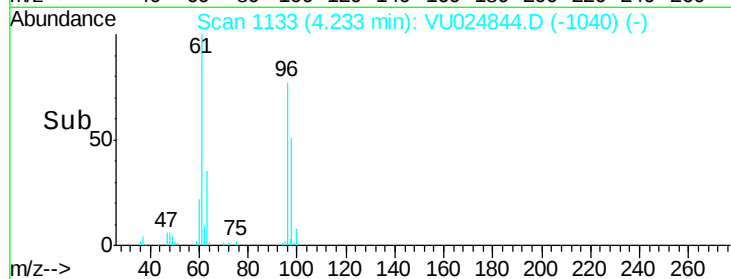
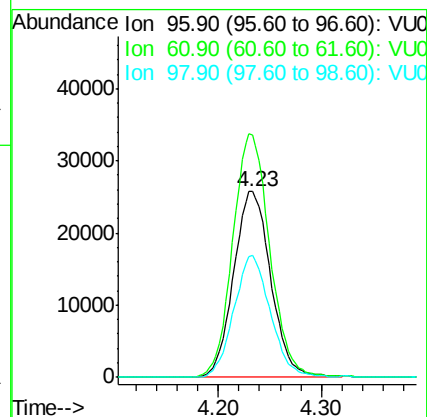
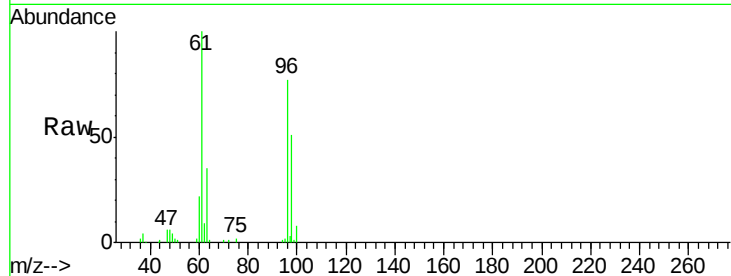




#27
 cis-1,2-Dichloroethene
 Concen: 22.07 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

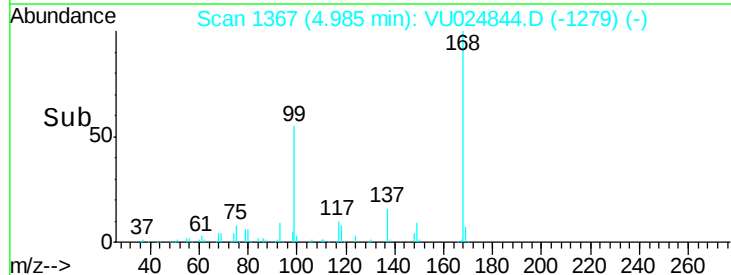
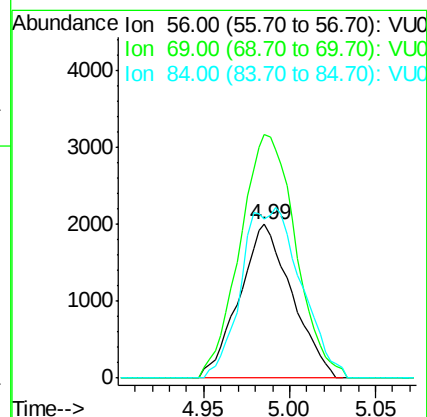
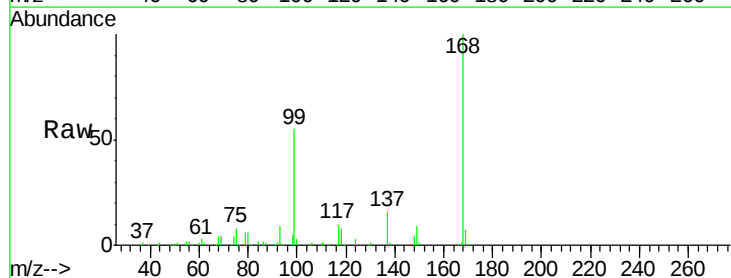
Instrument :
 MSVOA_U
 ClientSampleId :

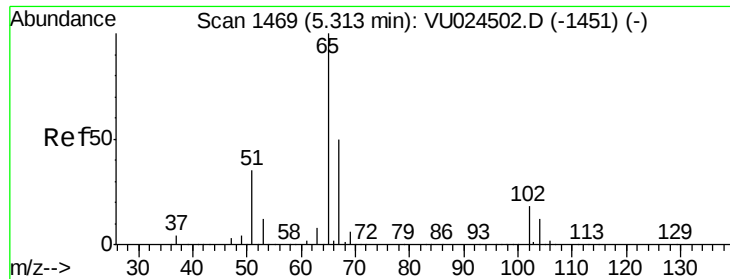
Tot Ion	96	Resp	64568
Ion	Ratio	Lower	Upper
96	100		
61	130.2	0.0	306.6
98	64.6	0.0	128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

Tgt Ion	56	Resp	4239
Ion	Ratio	Lower	Upper
56	100		
69	158.5	24.8	37.2#
84	103.4	65.2	97.8#

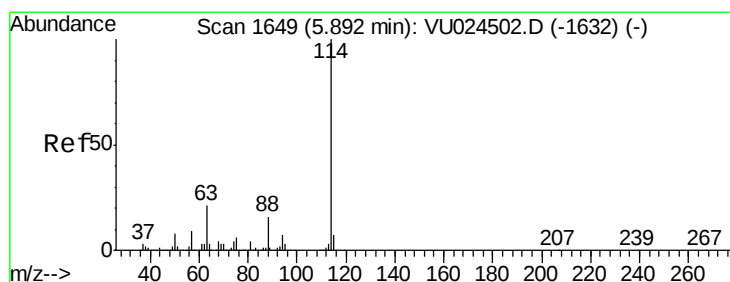
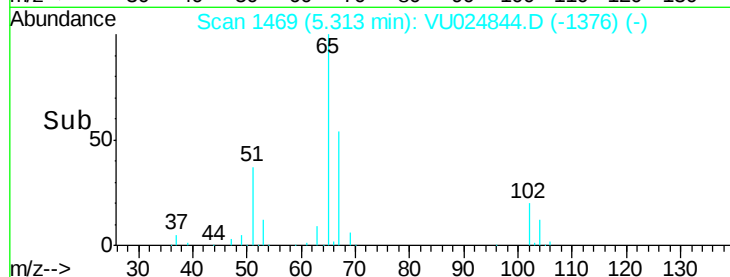
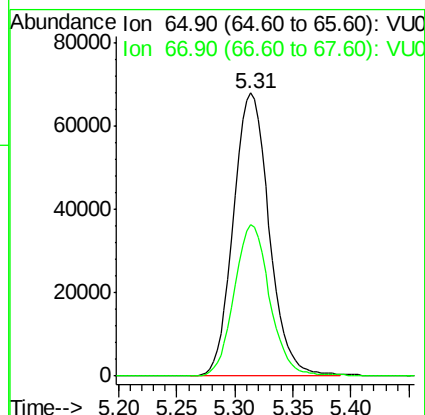
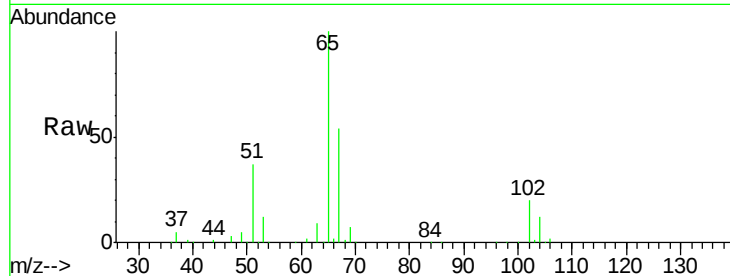




#33
 1,2-Dichloroethane-d4
 Concen: 43.85 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

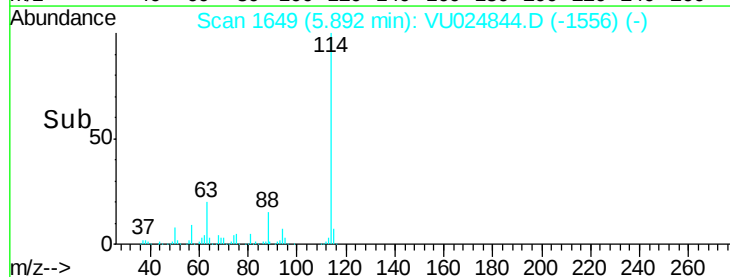
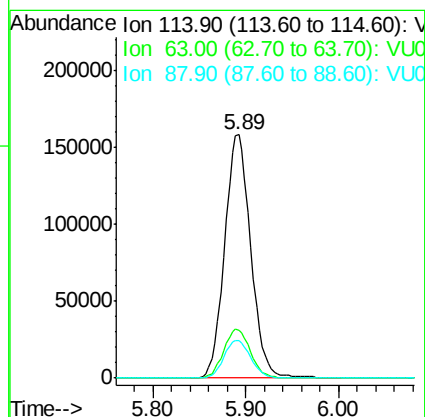
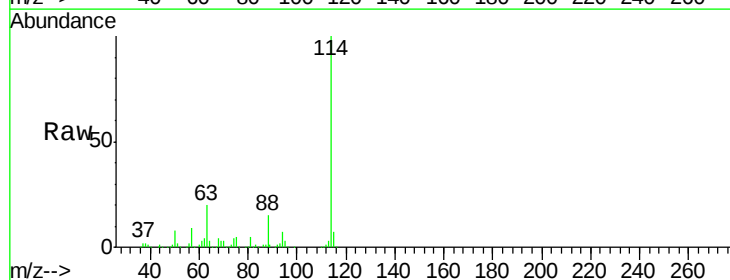
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 65 Resp: 145238
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

Tgt Ion: 114 Resp: 308966
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 45.4
 88 15.4 0.0 31.0

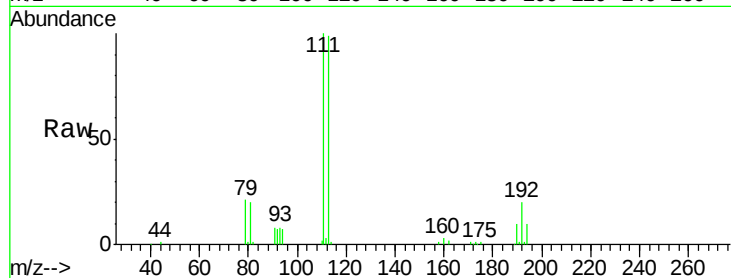




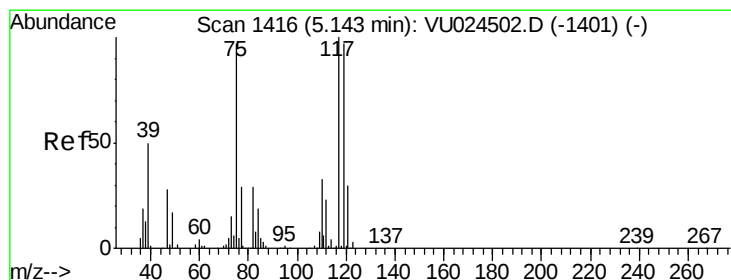
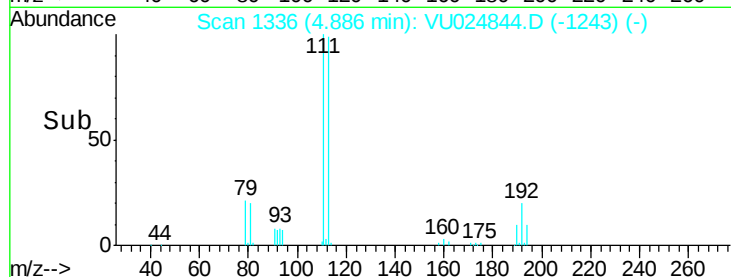
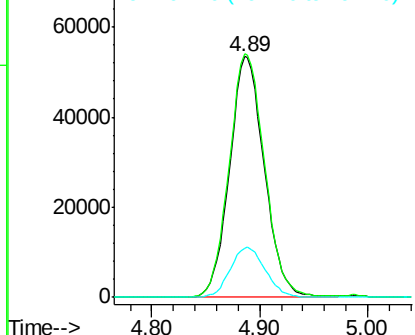
#35
 Dibromofluoromethane
 Concen: 46.74 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	21.1	16.2	24.4

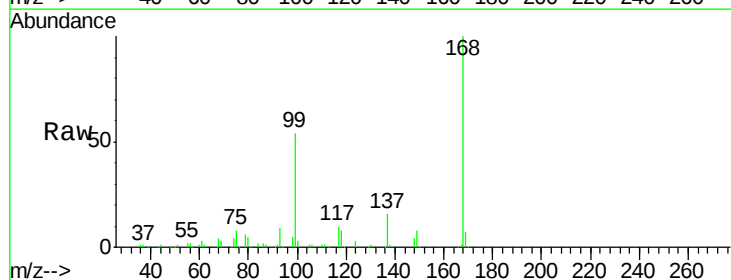


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

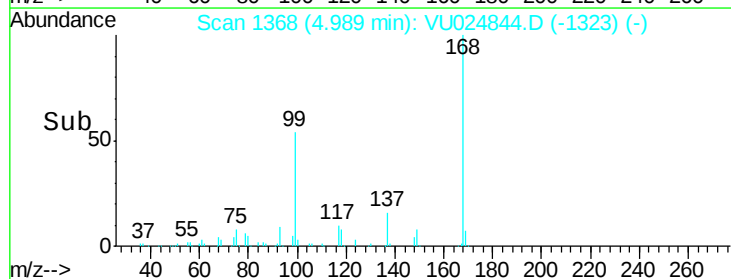
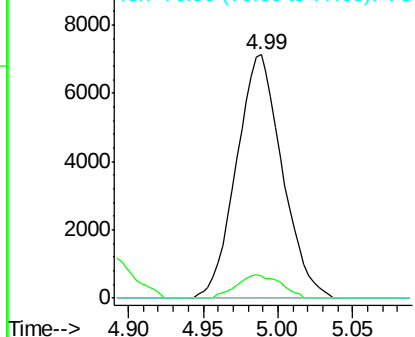


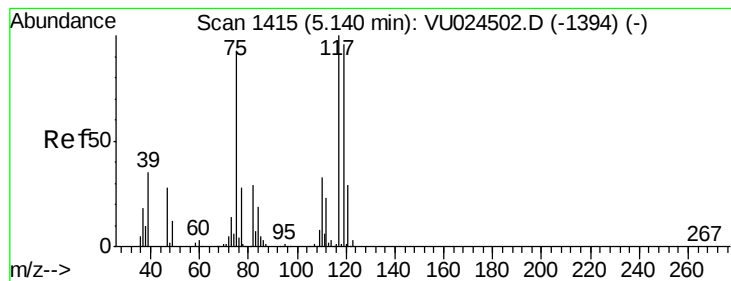
#36
 1,1-Dichloropropene
 Concen: 4.17 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.0	50.9#
77	0.0	24.2	36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.80 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024844.D

Acq: 22 Jun 2018 20:14

Instrument :

MSVOA_U

ClientSampleId :

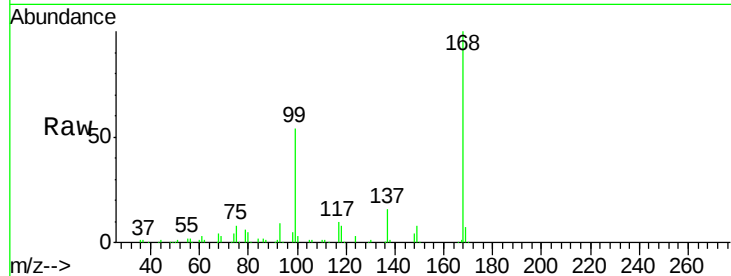
Tot Ion:117 Resp: 19177

Ion Ratio Lower Upper

117 100

119 3.6 76.1 114.1#

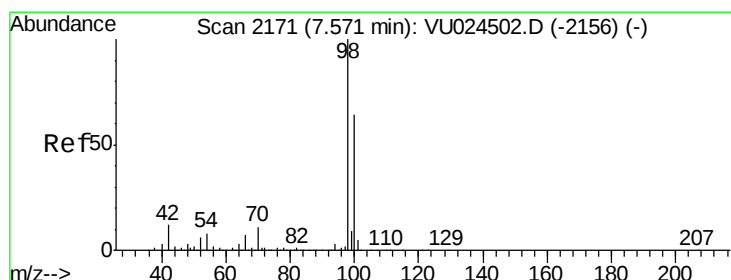
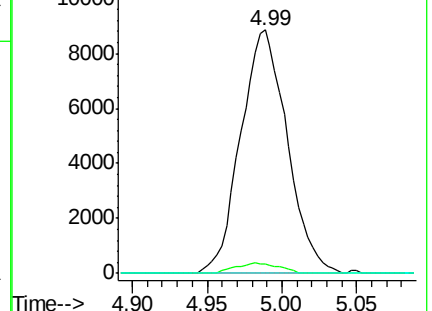
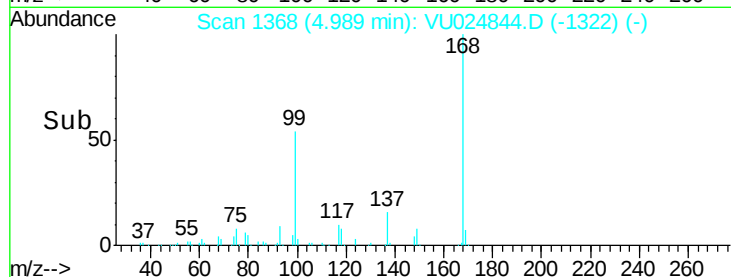
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.64 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024844.D

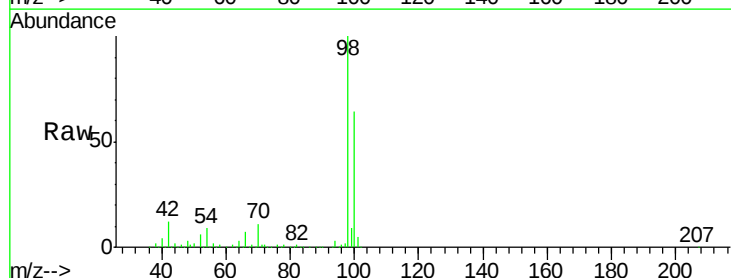
Acq: 22 Jun 2018 20:14

Tgt Ion: 98 Resp: 454916

Ion Ratio Lower Upper

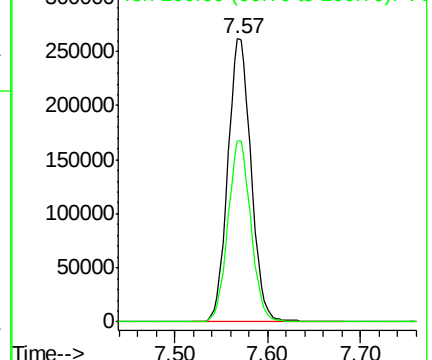
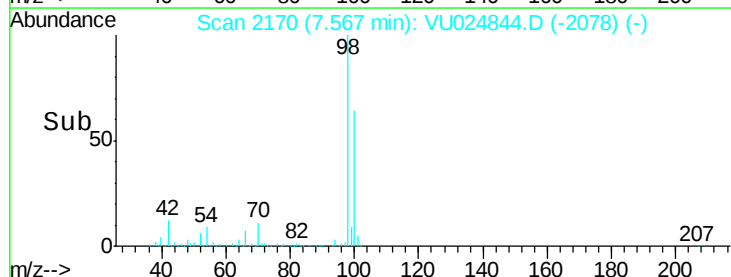
98 100

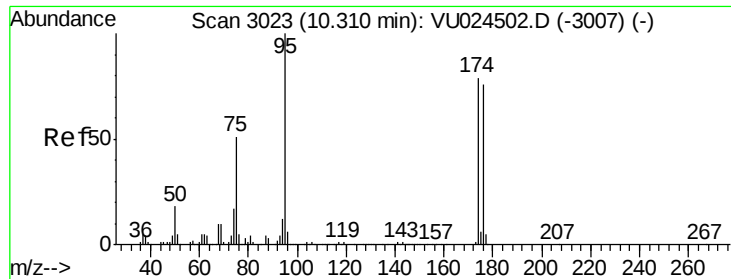
100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#62

4-Bromofluorobenzene

Concen: 45.15 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024844.D

Acq: 22 Jun 2018 20:14

Instrument :

MSVOA_U

ClientSampled :

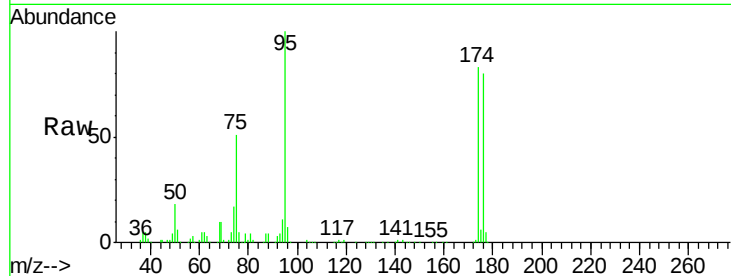
Tot Ion: 95 Resp: 167668

Ion Ratio Lower Upper

95 100

174 84.6 0.0 165.8

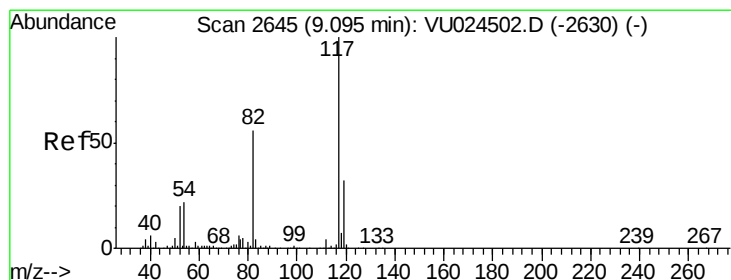
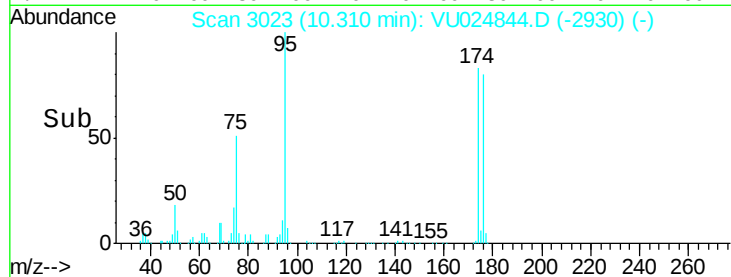
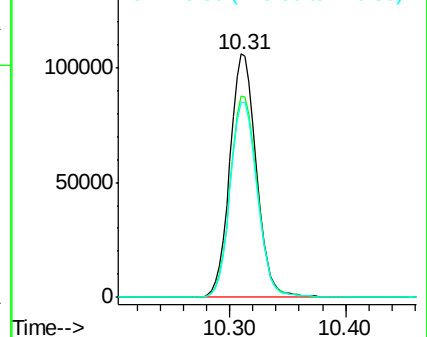
176 82.0 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VU024844.D

Acq: 22 Jun 2018 20:14

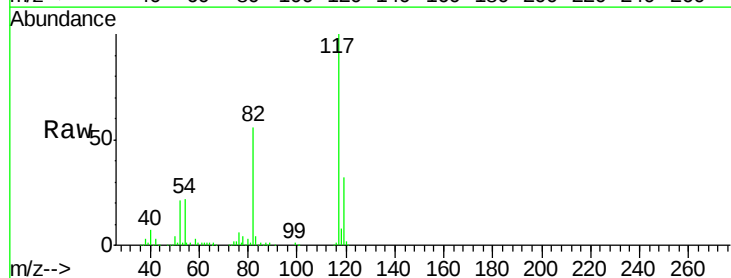
Tgt Ion: 117 Resp: 288673

Ion Ratio Lower Upper

117 100

82 56.2 44.3 66.5

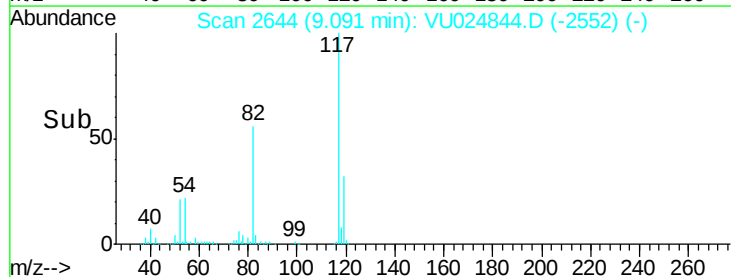
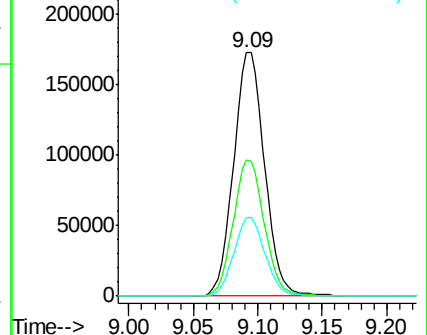
119 32.2 25.4 38.2

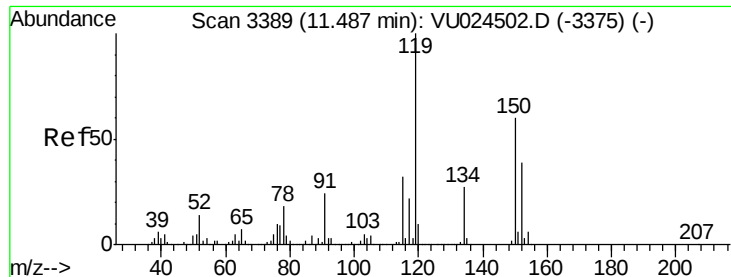


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024844.D

Acq: 22 Jun 2018 20:14

Instrument :

MSVOA_U

ClientSampled :

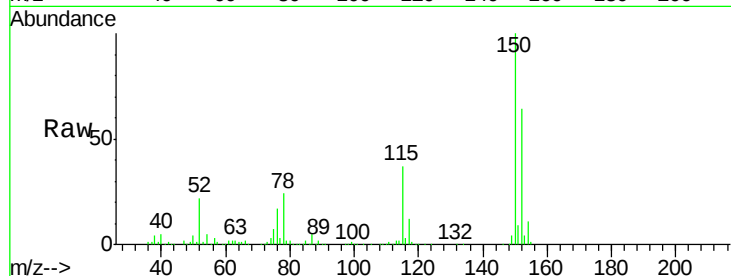
Tot Ion:152 Resp: 155590

Ion Ratio Lower Upper

152 100

115 58.3 43.0 129.0

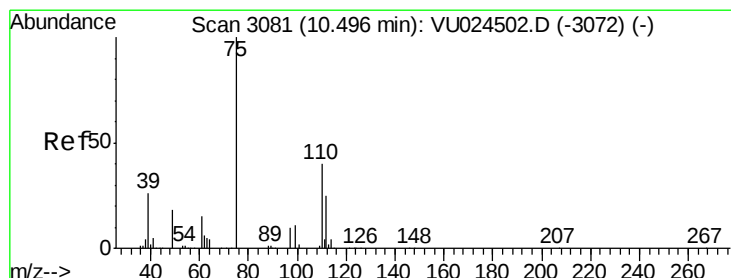
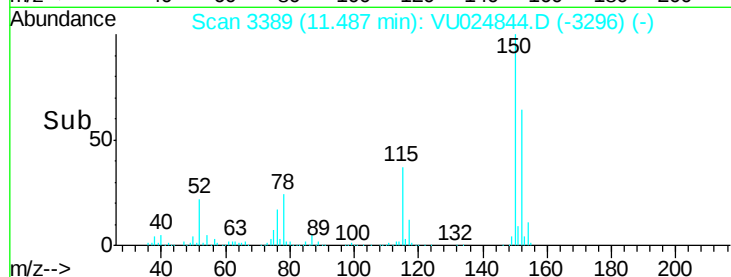
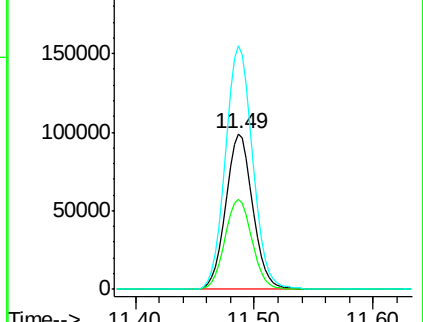
150 158.0 0.0 354.0



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



#76

1,2,3-Trichloropropane

Concen: 25.28 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024844.D

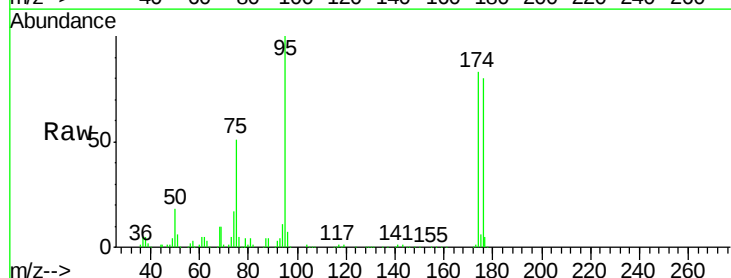
Acq: 22 Jun 2018 20:14

Tgt Ion: 75 Resp: 86600

Ion Ratio Lower Upper

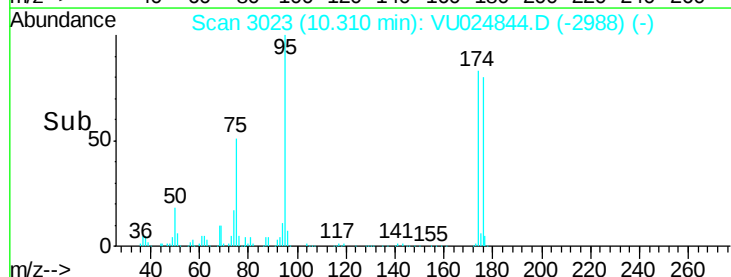
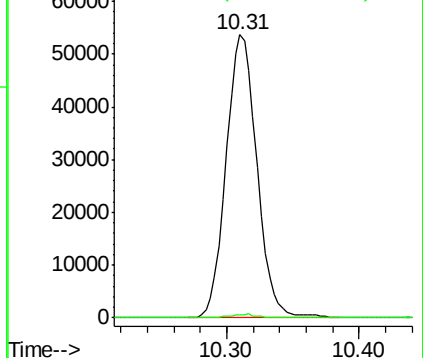
75 100

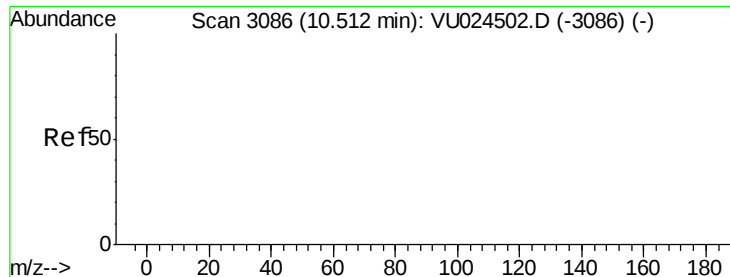
77 1.1 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

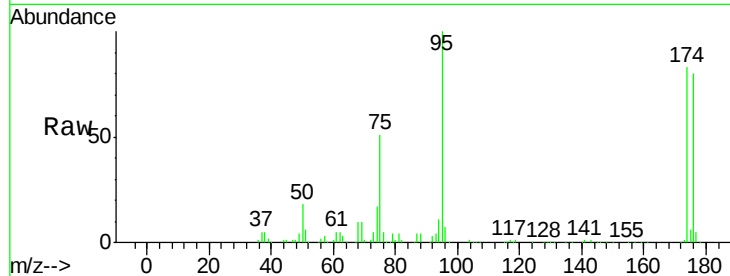




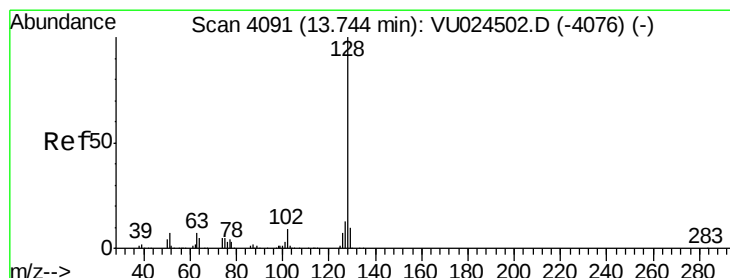
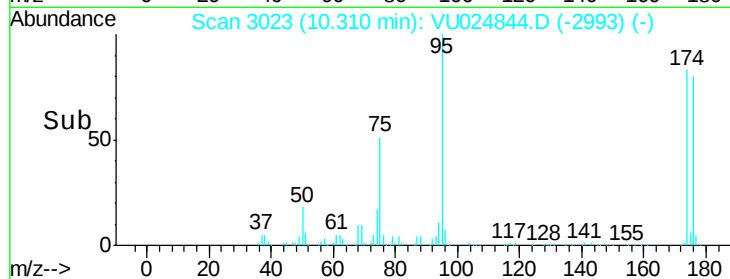
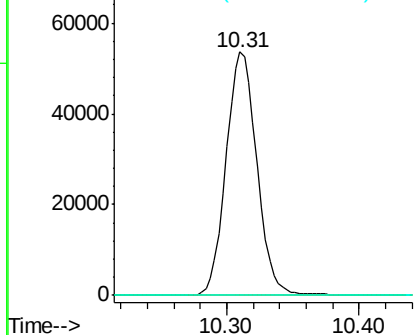
#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.51 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 86600
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

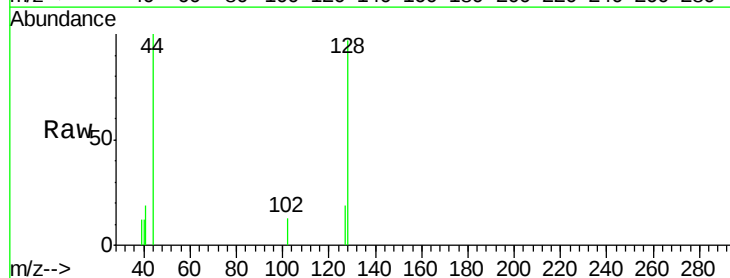


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 53.00 (52.70 to 53.70): VU0
 Ion 88.90 (88.60 to 89.60): VU0



#95
 Naphthalene
 Concen: 0.85 ug/l
 RT: 13.76 min Scan# 4097
 Delta R.T. 0.02 min
 Lab File: VU024844.D
 Acq: 22 Jun 2018 20:14

Tgt Ion:128 Resp: 2003
 Ion Ratio Lower Upper
 128 100
 127 7.2 10.6 16.0#
 129 0.0 8.6 12.8#



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

