

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062818\
 Data File : VU025040.D
 Acq On : 28 Jun 2018 23:58
 Operator : MD/SY
 Sample : J3669-32ME 20X
 Misc : 6.43g/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB474-35-37-180620ME

Quant Time: Jun 29 05:14:26 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	217462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	330549	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	307115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	160944	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	164511	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	
35) Dibromofluoromethane	4.89	113	129107	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	
50) Toluene-d8	7.57	98	476994	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
62) 4-Bromofluorobenzene	10.31	95	178493	44.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.86%	

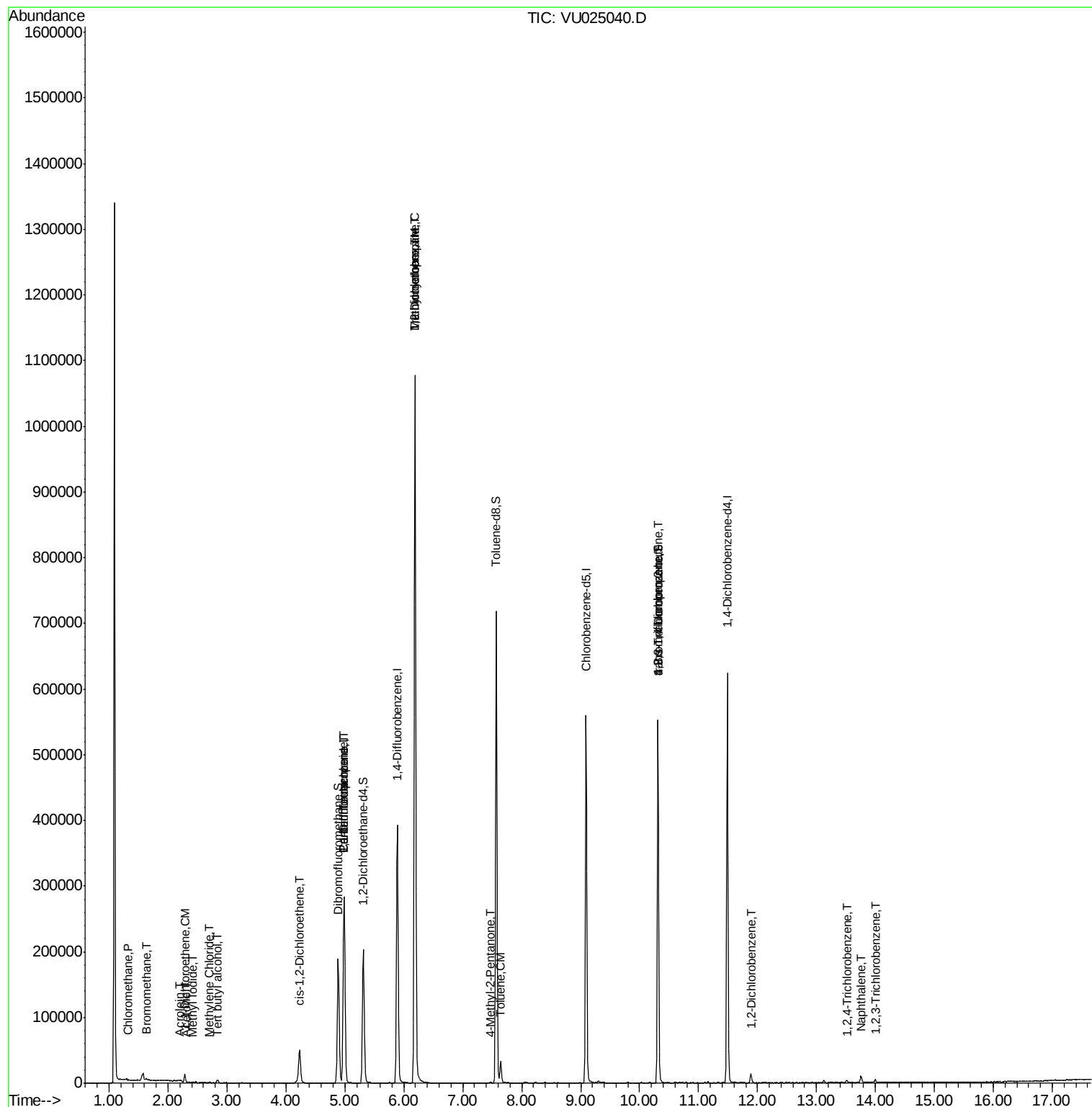
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	803	0.289	ug/l	96
5) Bromomethane	1.62	94	804	0.580	ug/l #	58
6) Chloroethane	1.71	64	20	Below Cal	#	43
10) Methyl Iodide	2.42	142	1085	5.711	ug/l #	88
11) Tert butyl alcohol	2.83	59	2635	3.052	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	3898	1.574	ug/l	99
13) Acrolein	2.19	56	275	0.607	ug/l	85
16) Acetone	2.32	43	600	0.315	ug/l #	68
20) Methylene Chloride	2.70	84	650	0.217	ug/l #	82
27) cis-1,2-Dichloroethene	4.23	96	27606	8.805	ug/l	88
31) Cyclohexane	4.98	56	2087	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15820	4.073	ug/l #	52
38) Carbon Tetrachloride	4.99	117	21453	5.023	ug/l #	15
39) Methylcyclohexane	6.19	83	4271	0.881	ug/l #	1
44) Trichloroethene	6.19	130	381000	120.956	ug/l	96
45) 1,2-Dichloropropane	6.19	63	1153	0.390	ug/l #	1
51) 4-Methyl-2-Pentanone	7.46	43	1011	0.220	ug/l	90
52) Toluene	7.64	92	13855	1.946	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	92793	26.188	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	92793	60.609	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	5355	0.925	ug/l	95
93) 1,2,4-Trichlorobenzene	13.51	180	1691	0.473	ug/l	92
95) Naphthalene	13.75	128	11104	1.605	ug/l	95
96) 1,2,3-Trichlorobenzene	14.00	180	2143	0.602	ug/l	92

(#) = 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# 1368

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

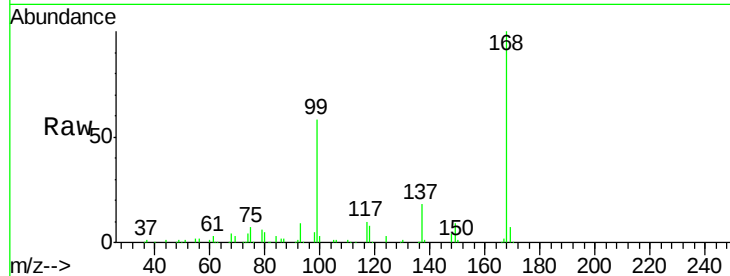
WP021SB474-35-37-180620ME

Tgt Ion:168 Resp: 217462

Ion Ratio Lower Upper

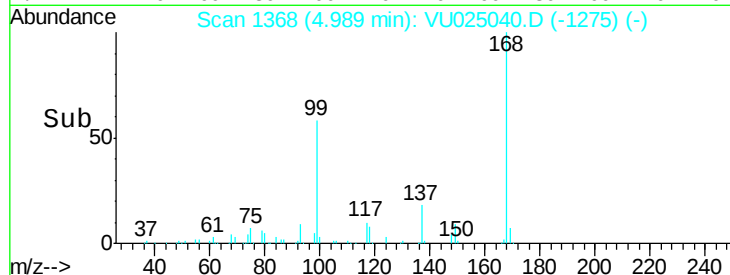
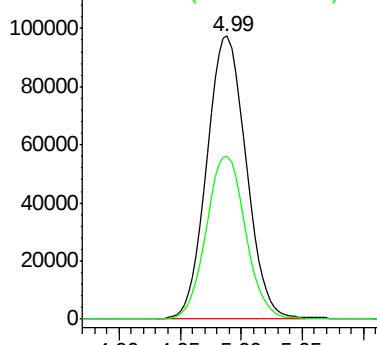
168 100

99 57.5 43.2 64.8

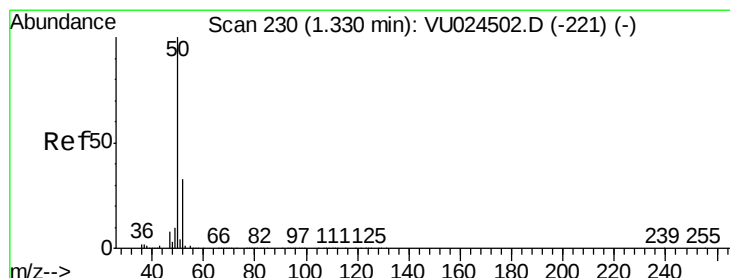


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



Time-->



#3

Chloromethane

Concen: 0.289 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU025040.D

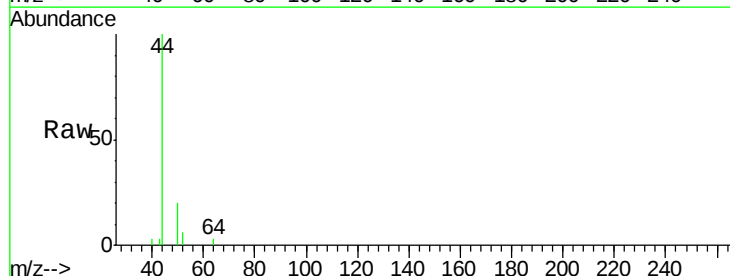
Acq: 28 Jun 2018 23:58

Tgt Ion: 50 Resp: 803

Ion Ratio Lower Upper

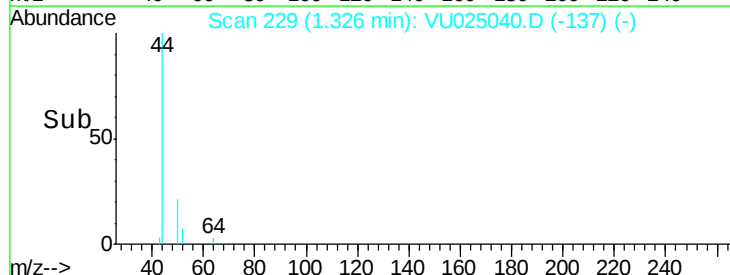
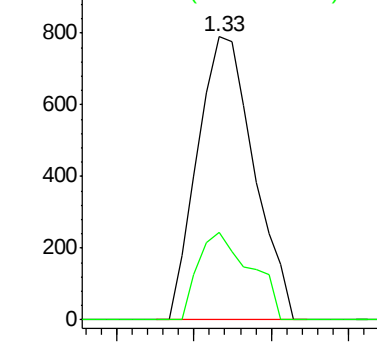
50 100

52 31.0 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



Time-->



#5

Bromomethane

Concen: 0.580 ug/l

RT: 1.62 min Scan# 321

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

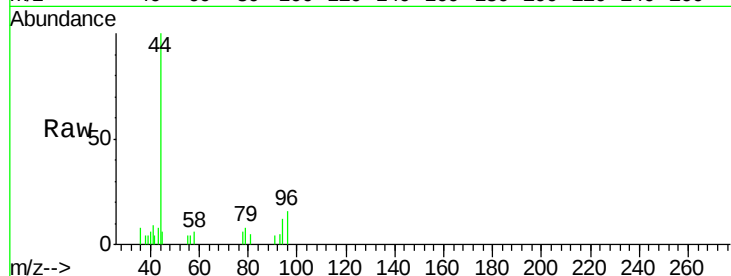
WP021SB474-35-37-180620ME

Tgt Ion: 94 Resp: 804

Ion Ratio Lower Upper

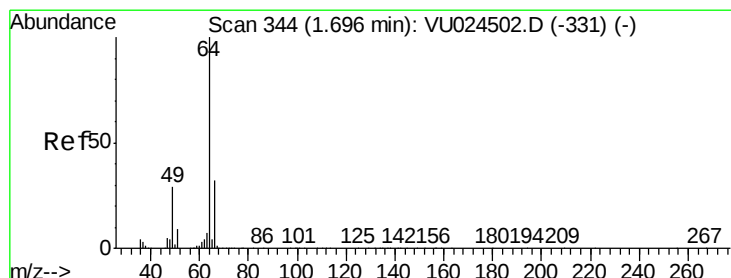
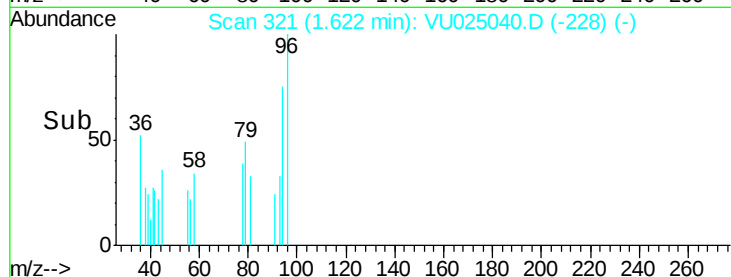
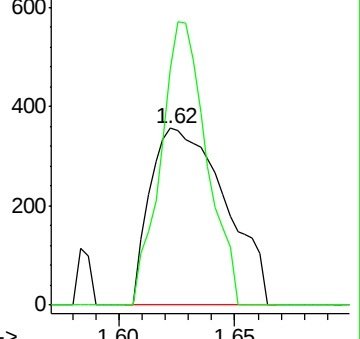
94 100

96 133.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU025040.D

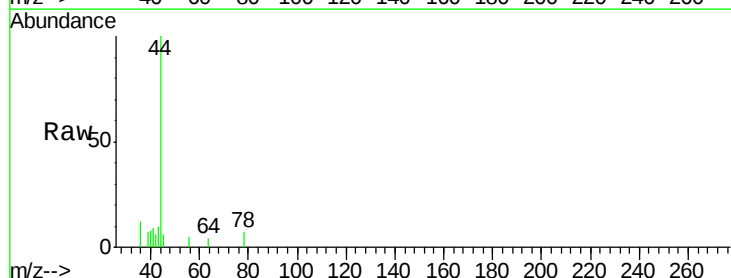
Acq: 28 Jun 2018 23:58

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

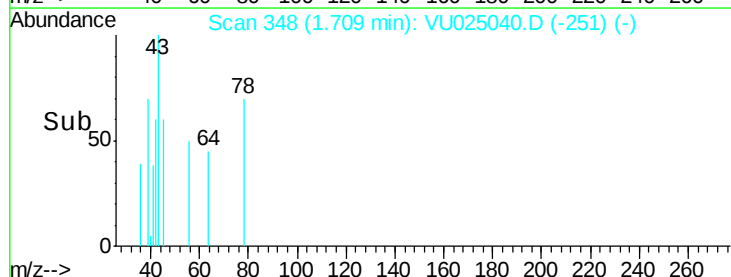
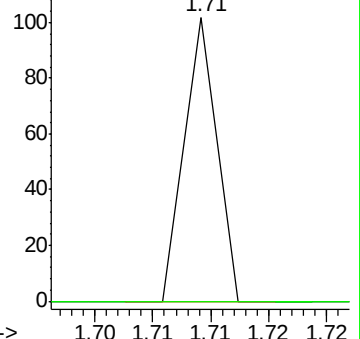
64 100

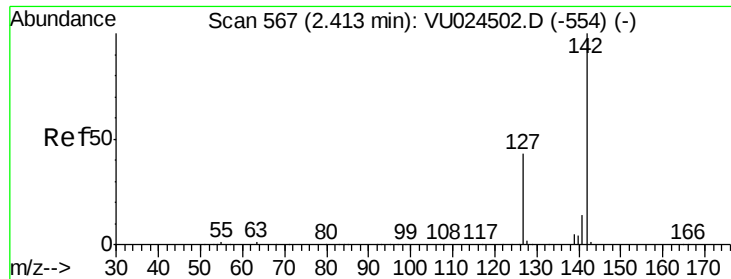
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

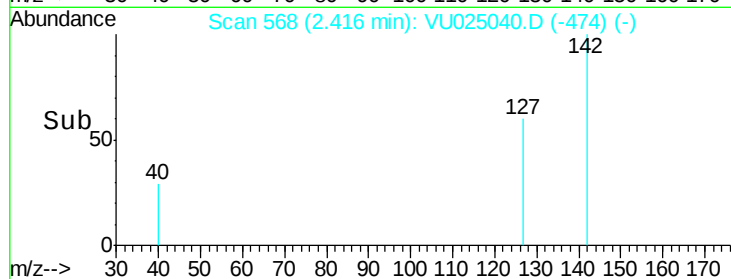
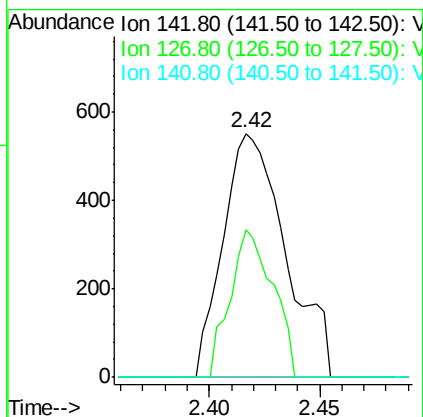
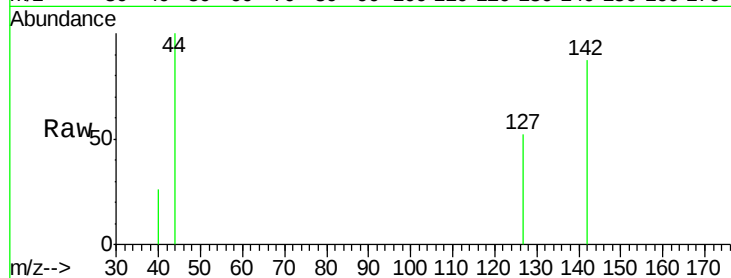




#10
Methyl Iodide
Concen: 5.711 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU025040.D
Acq: 28 Jun 2018 23:58

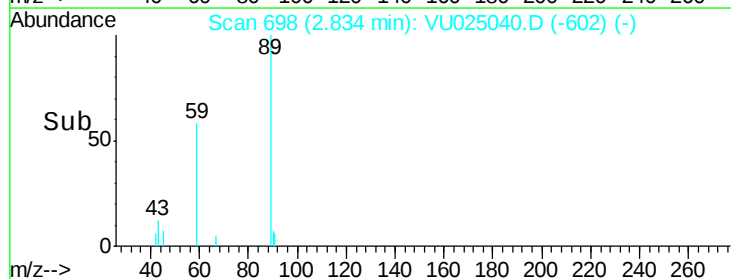
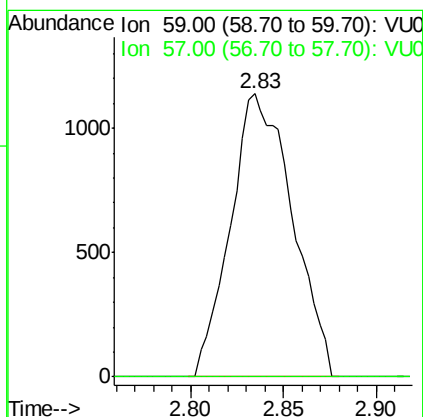
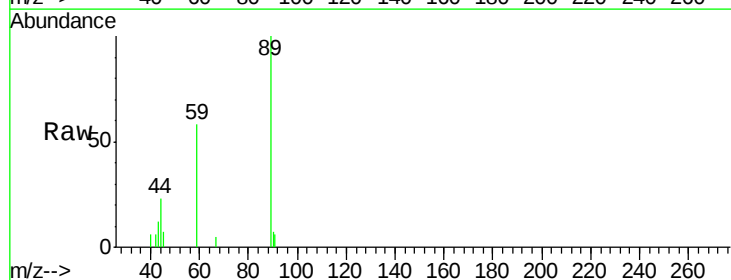
Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-35-37-180620ME

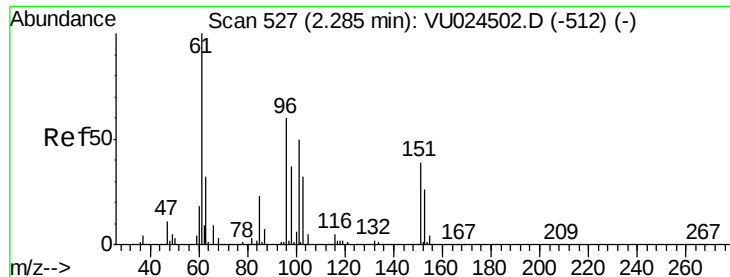
Tgt Ion:142 Resp: 1085
Ion Ratio Lower Upper
142 100
127 41.4 35.6 53.4
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 3.052 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU025040.D
Acq: 28 Jun 2018 23:58

Tgt Ion: 59 Resp: 2635
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 1.574 ug/l

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-35-37-180620ME

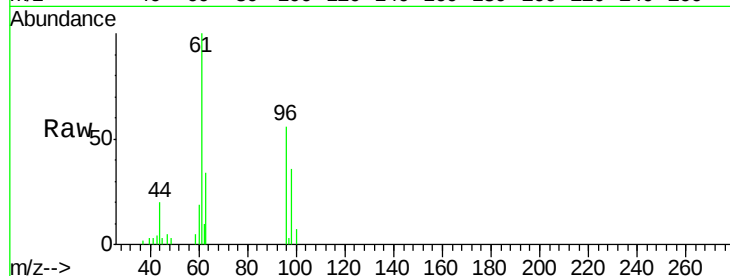
Tgt Ion: 96 Resp: 3898

Ion Ratio Lower Upper

96 100

61 178.8 141.7 212.5

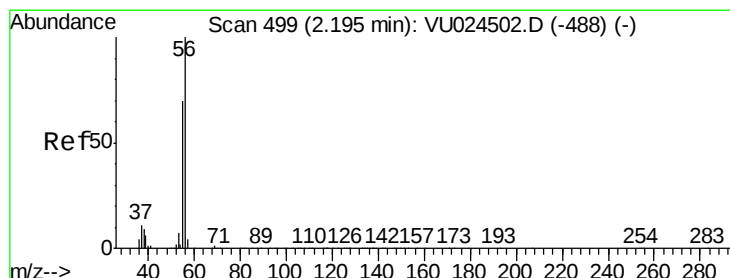
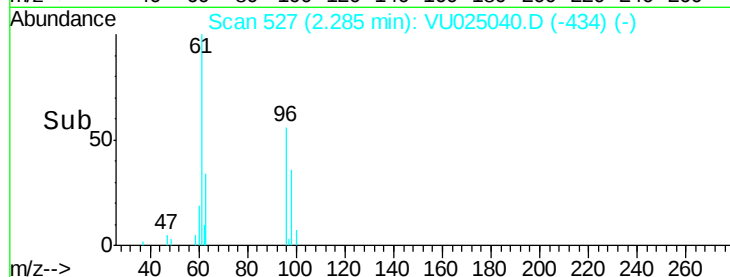
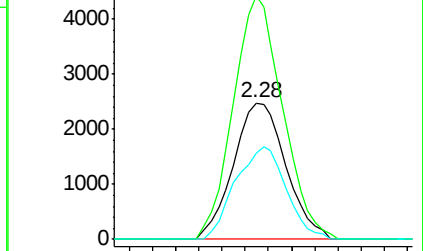
98 63.5 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU025040.D (-434) (-)

Ion 60.90 (60.60 to 61.60): VU025040.D (-434) (-)

Ion 97.90 (97.60 to 98.60): VU025040.D (-434) (-)



#13

Acrolein

Concen: 0.607 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025040.D

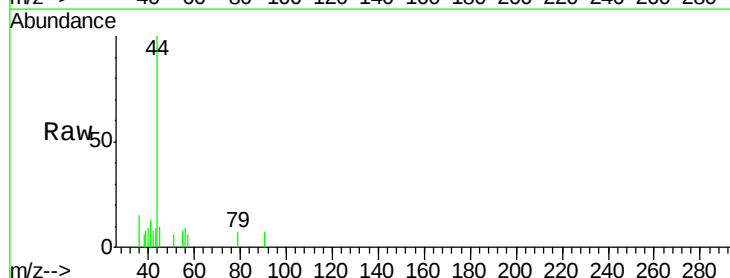
Acq: 28 Jun 2018 23:58

Tgt Ion: 56 Resp: 275

Ion Ratio Lower Upper

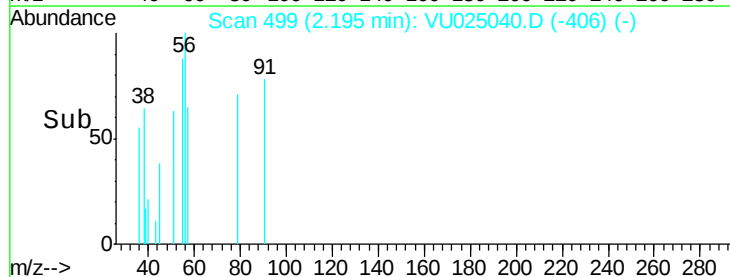
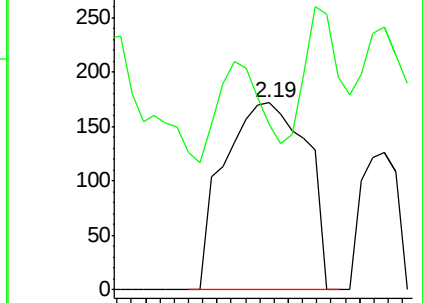
56 100

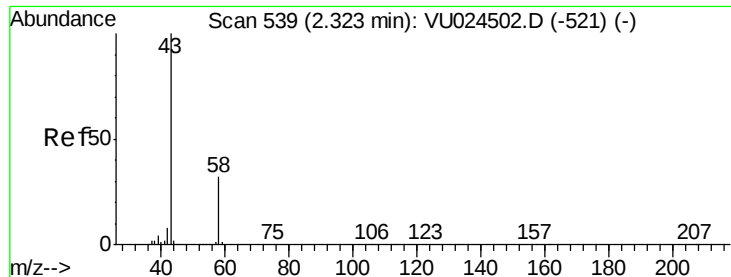
55 85.5 58.4 87.6



Abundance Ion 56.00 (55.70 to 56.70): VU025040.D (-406) (-)

Ion 55.00 (54.70 to 55.70): VU025040.D (-406) (-)





#16

Acetone

Concen: 0.315 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

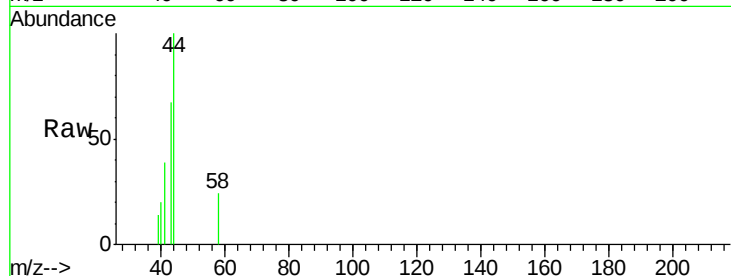
WP021SB474-35-37-180620ME

Tgt Ion: 43 Resp: 600

Ion Ratio Lower Upper

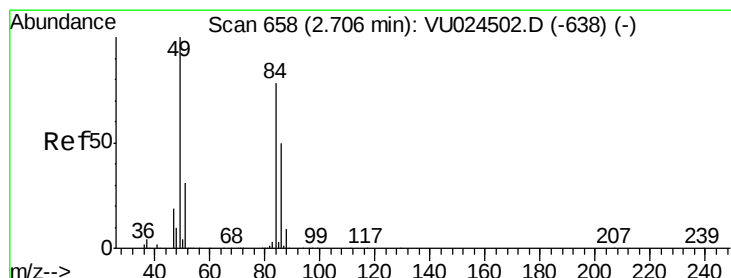
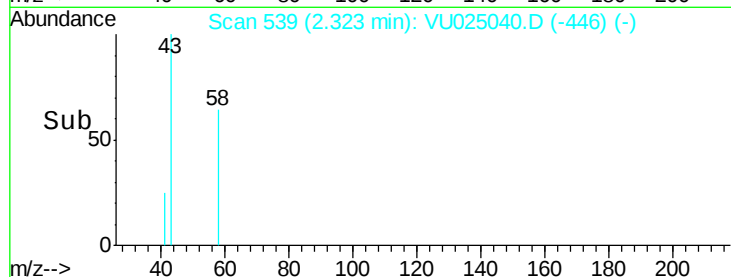
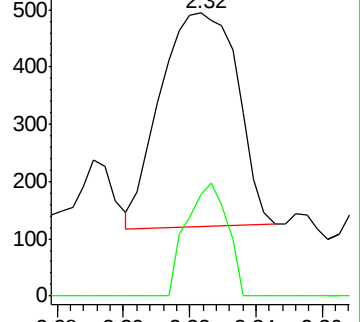
43 100

58 48.1 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#20

Methylene Chloride

Concen: 0.217 ug/l

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Tgt Ion: 84 Resp: 650

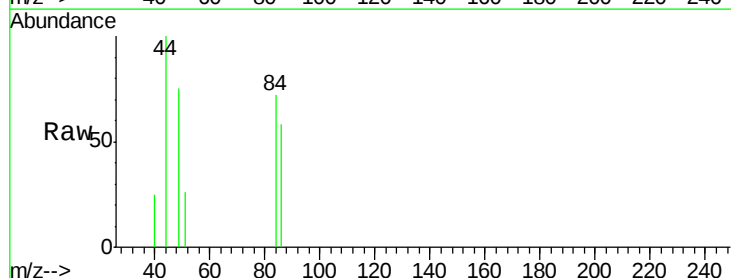
Ion Ratio Lower Upper

84 100

49 104.9 103.8 155.8

51 36.2 32.0 48.0

86 80.2 51.6 77.4#

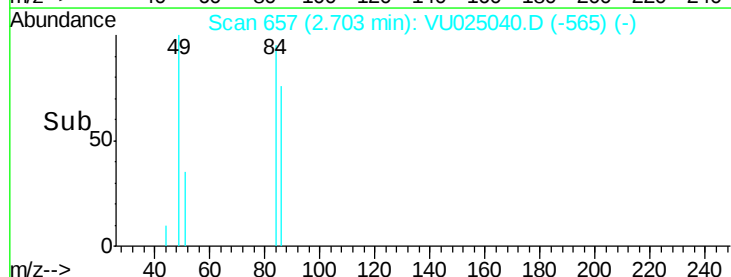
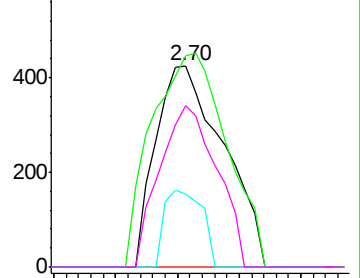


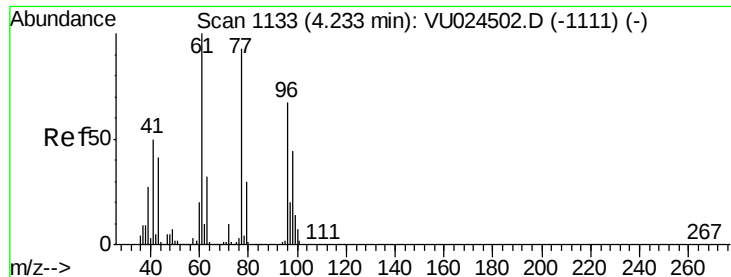
Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 8.805 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

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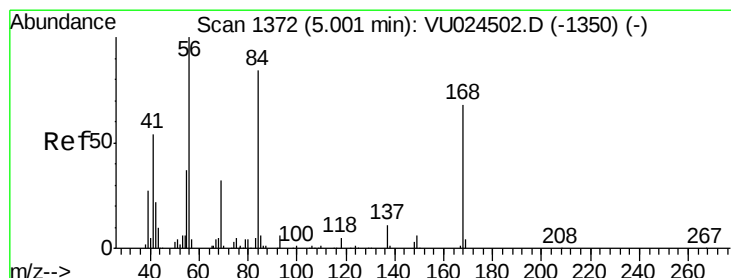
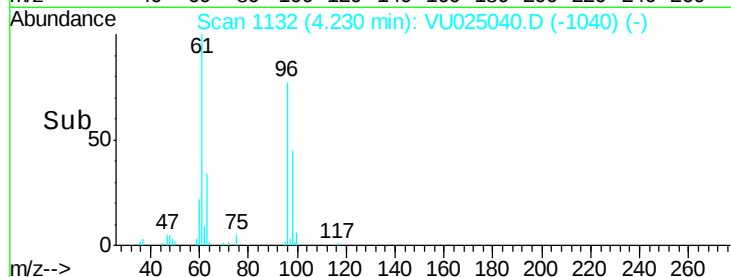
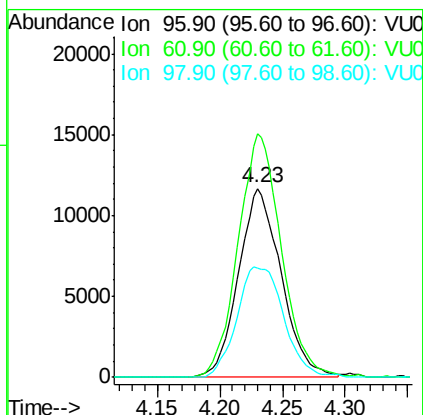
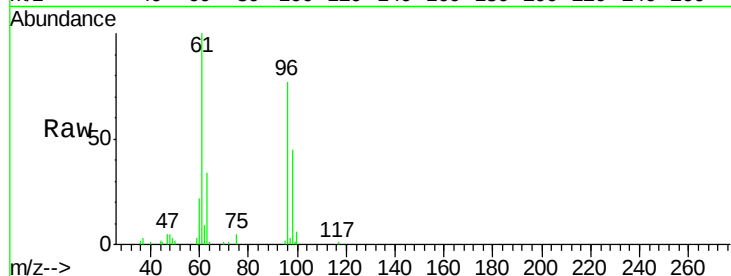
Tgt Ion: 96 Resp: 27606

Ion Ratio Lower Upper

96 100

61 130.7 0.0 306.6

98 64.1 0.0 128.8



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

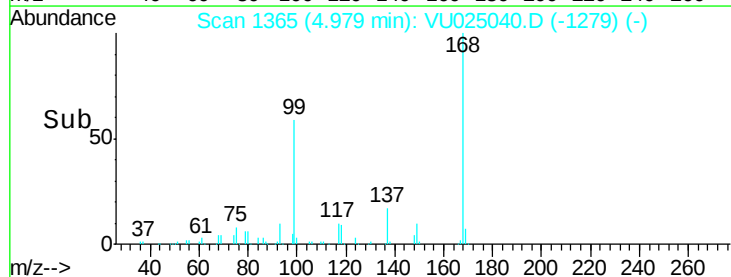
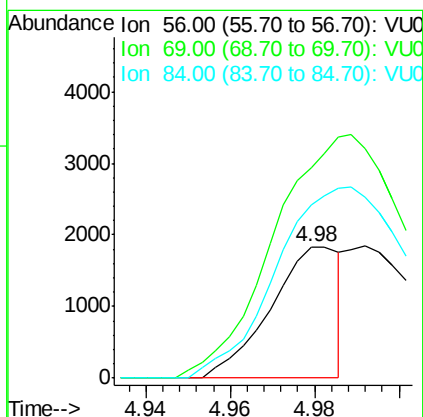
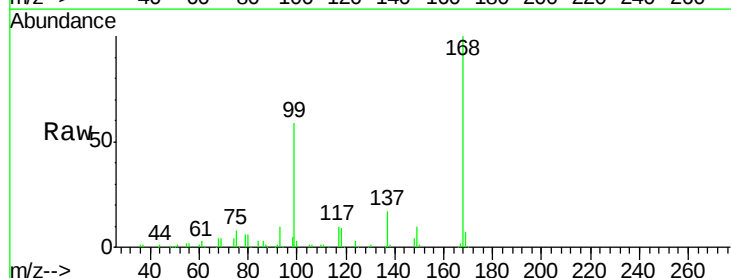
Tgt Ion: 56 Resp: 2087

Ion Ratio Lower Upper

56 100

69 154.4 24.8 37.2#

84 132.1 65.2 97.8#

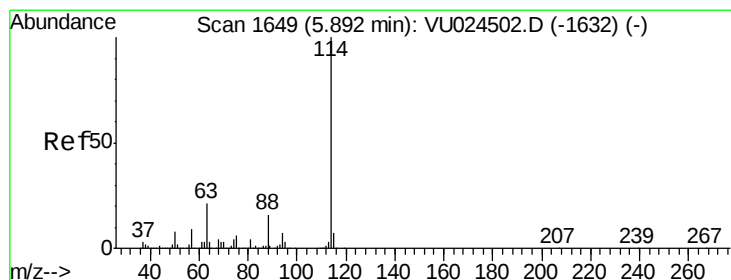
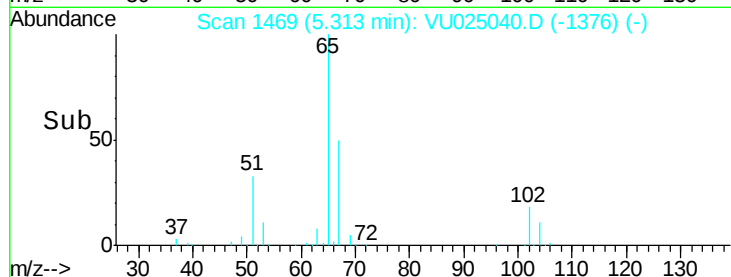
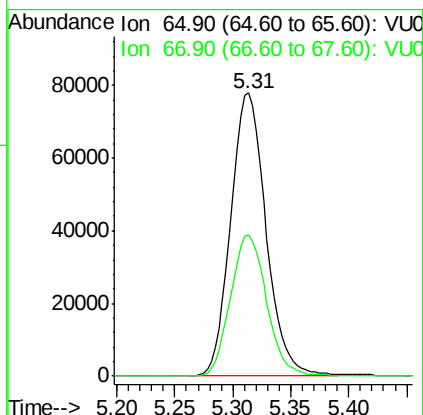
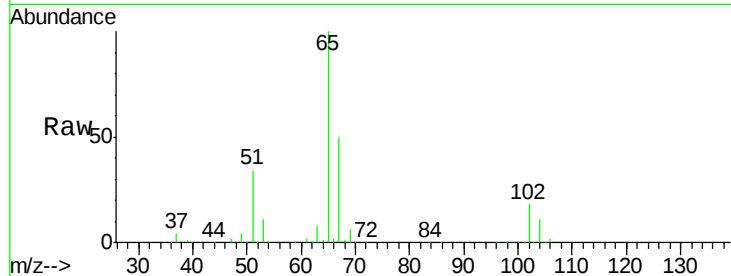




#33
 1,2-Dichloroethane-d4
 Concen: 46.340 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025040.D
 Acq: 28 Jun 2018 23:58

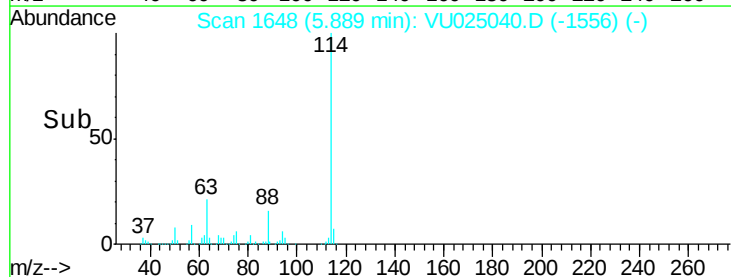
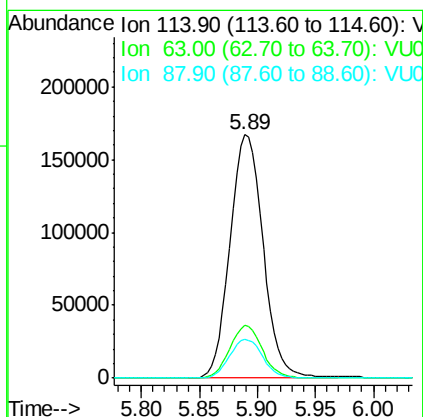
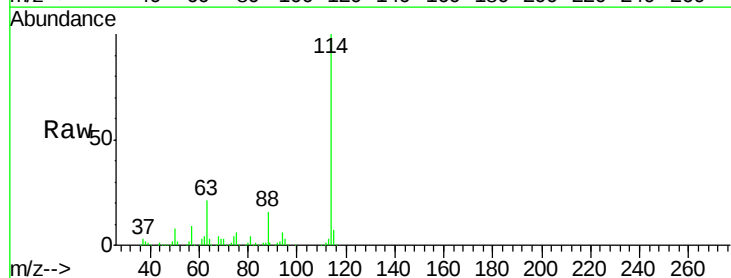
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB474-35-37-180620ME

Tgt Ion: 65 Resp: 164511
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025040.D
 Acq: 28 Jun 2018 23:58

Tgt Ion: 114 Resp: 330549
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 45.4
 88 15.9 0.0 31.0

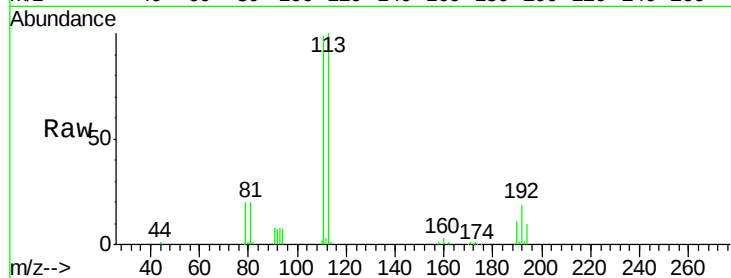




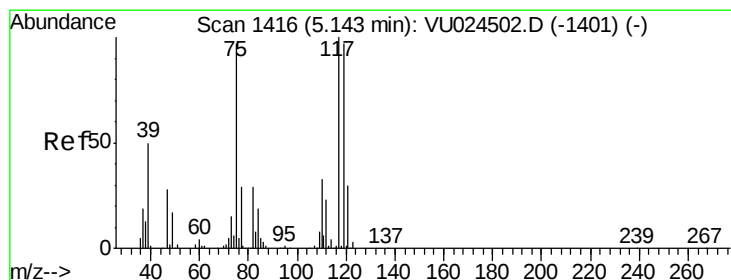
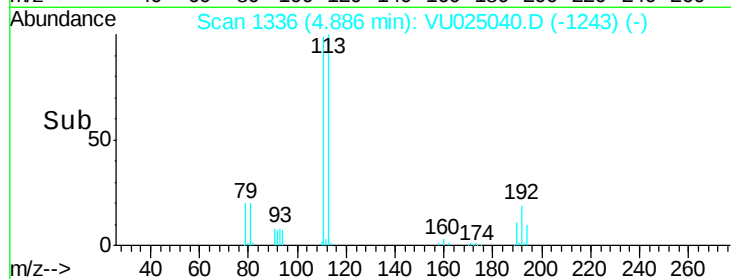
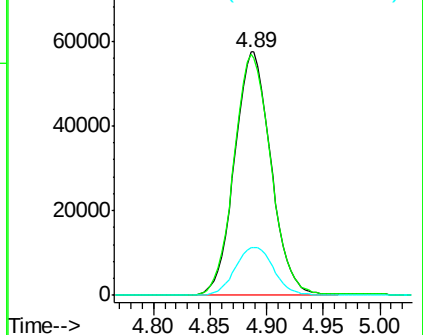
#35
 Dibromofluoromethane
 Concen: 47.063 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025040.D
 Acq: 28 Jun 2018 23:58

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB474-35-37-180620ME

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.1	82.2	123.4
192	20.8	16.2	24.4

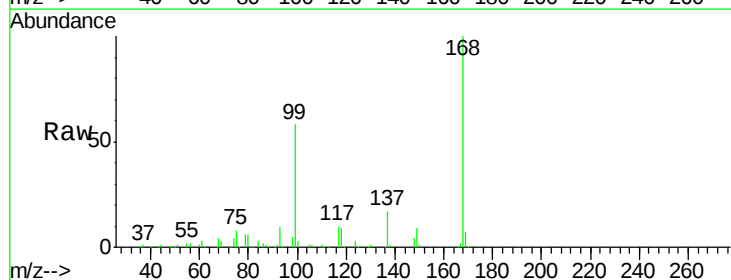


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

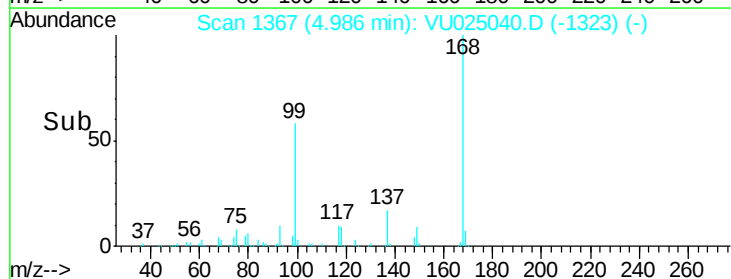
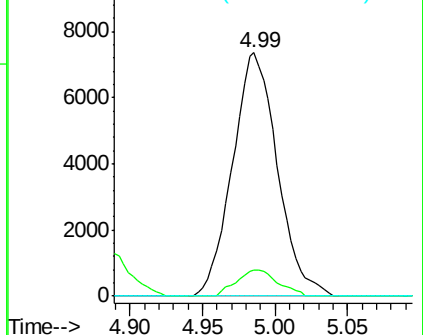


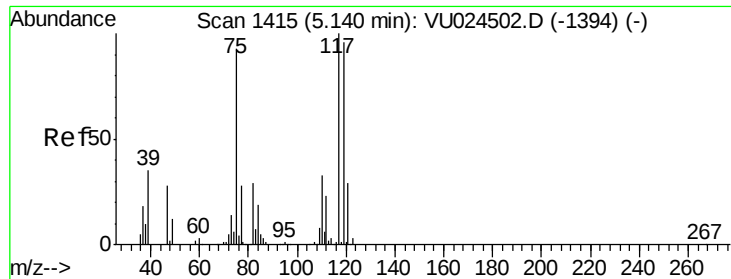
#36
 1,1-Dichloropropene
 Concen: 4.073 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025040.D
 Acq: 28 Jun 2018 23:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	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: 5.023 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-35-37-180620ME

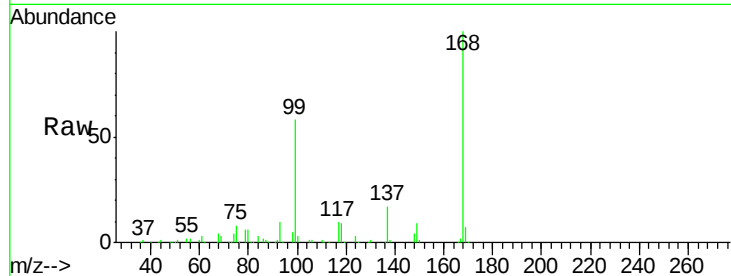
Tgt Ion:117 Resp: 21453

Ion Ratio Lower Upper

117 100

119 3.7 76.1 114.1#

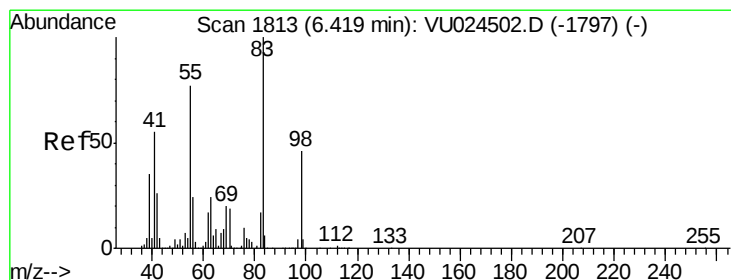
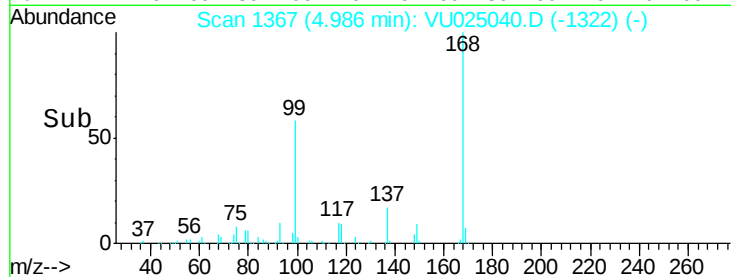
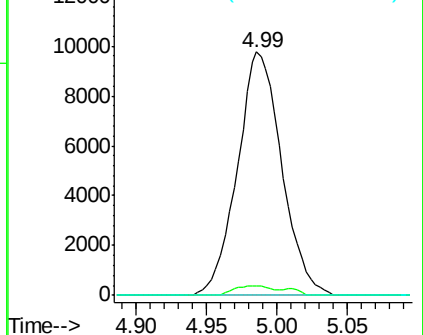
121 0.0 23.7 35.5#



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



#39

Methylcyclohexane

Concen: 0.881 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.23 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

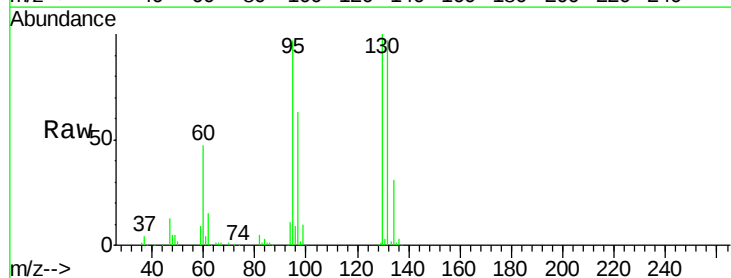
Tgt Ion: 83 Resp: 4271

Ion Ratio Lower Upper

83 100

55 0.0 65.8 98.6#

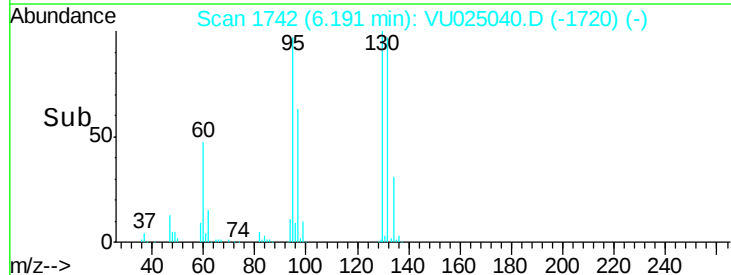
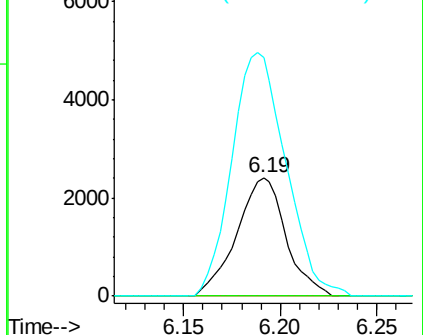
98 201.7 36.7 55.1#

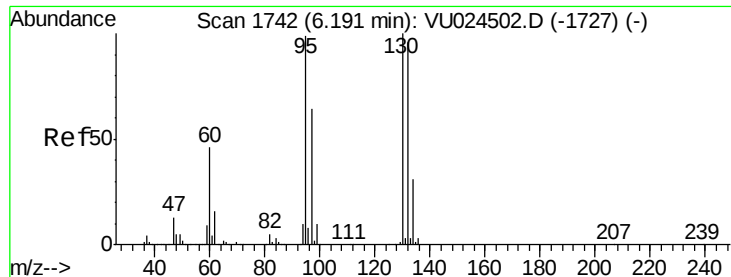


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 120.956 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

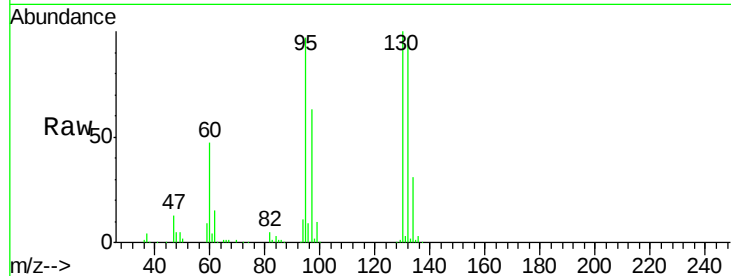
WP021SB474-35-37-180620ME

Tgt Ion:130 Resp: 381000

Ion Ratio Lower Upper

130 100

95 96.9 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU025040.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU025040.D (-1649) (-)

6.19

200000

150000

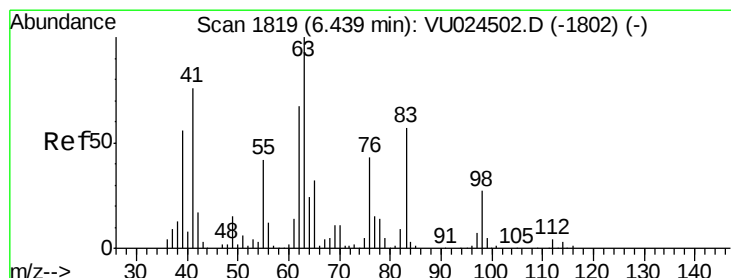
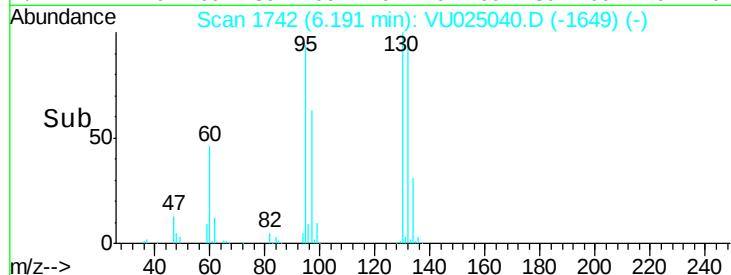
100000

50000

0

6.10 6.20 6.30

Time-->



#45

1,2-Dichloropropane

Concen: 0.390 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.25 min

Lab File: VU025040.D

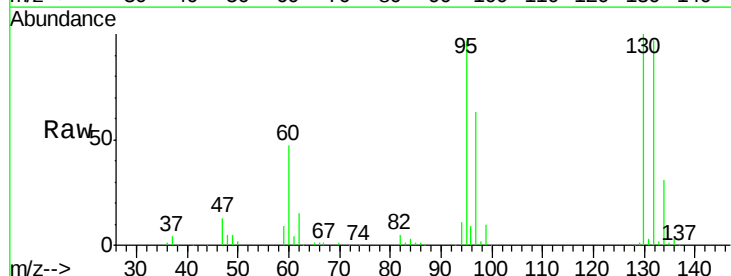
Acq: 28 Jun 2018 23:58

Tgt Ion: 63 Resp: 1153

Ion Ratio Lower Upper

63 100

65 408.9 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VU025040.D (-1726) (-)

Ion 64.90 (64.60 to 65.60): VU025040.D (-1726) (-)

6.19

3000

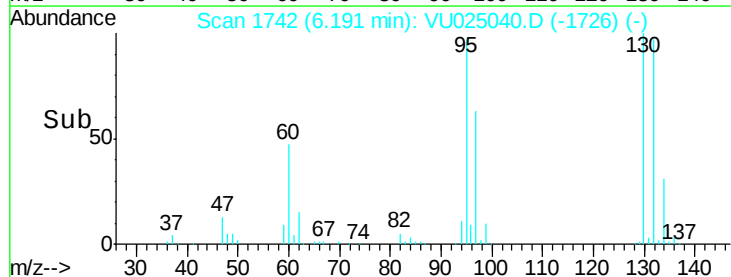
2000

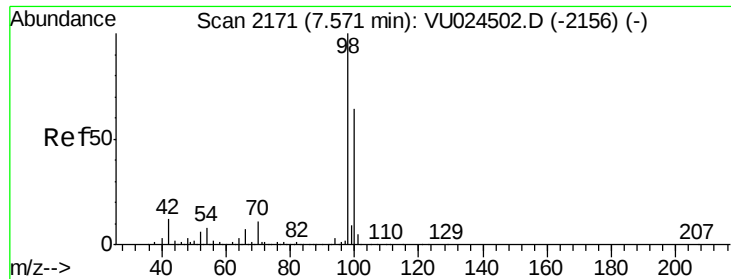
1000

0

6.15 6.20

Time-->





#50

Toluene-d8

Concen: 47.669 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

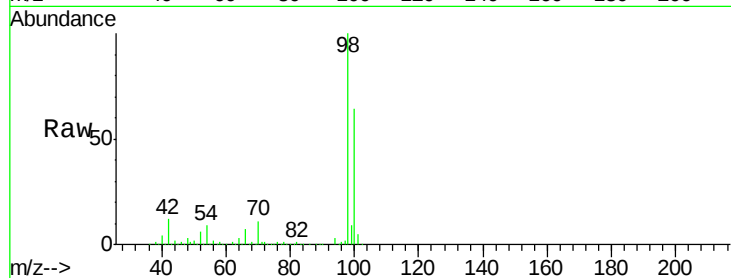
WP021SB474-35-37-180620ME

Tgt Ion: 98 Resp: 476994

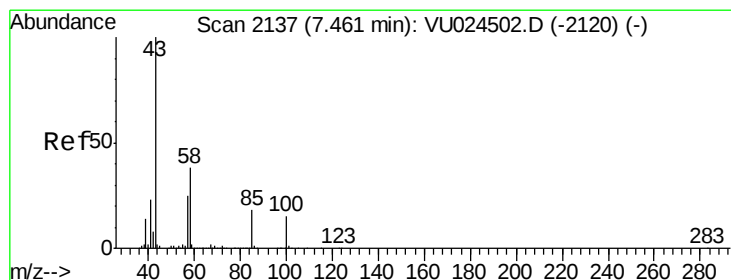
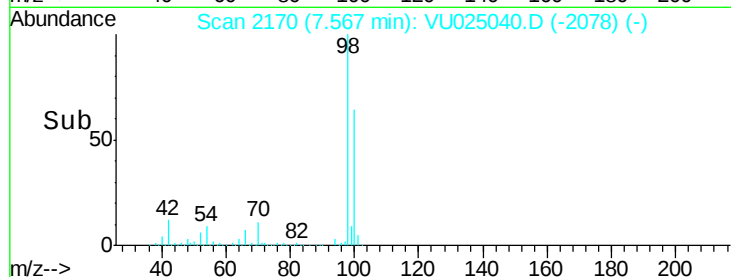
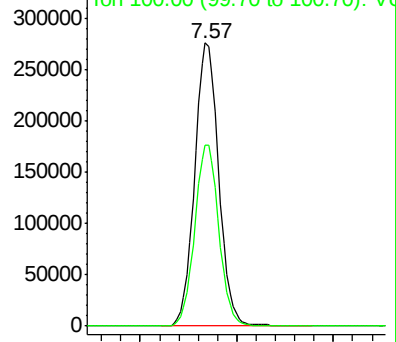
Ion Ratio Lower Upper

98 100

100 64.2 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.220 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU025040.D

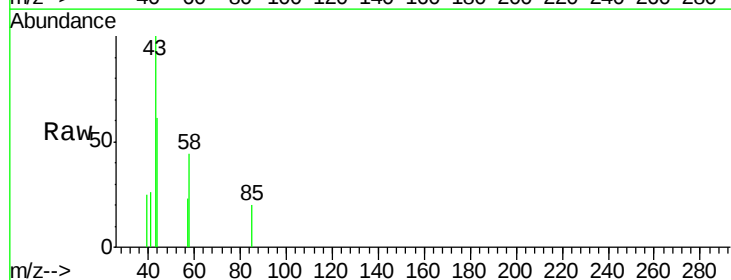
Acq: 28 Jun 2018 23:58

Tgt Ion: 43 Resp: 1011

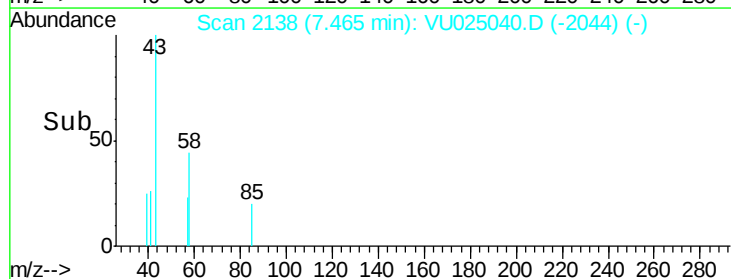
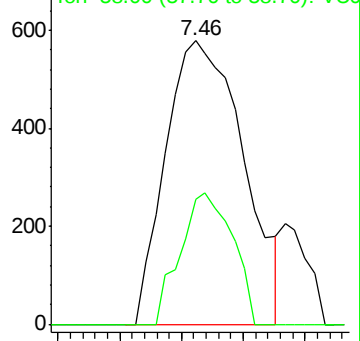
Ion Ratio Lower Upper

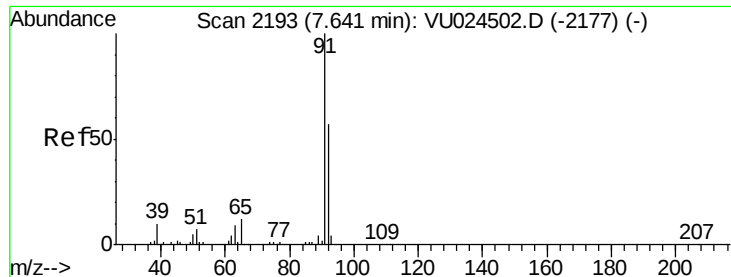
43 100

58 31.3 30.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-2120) (-)





#52

Toluene

Concen: 1.946 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

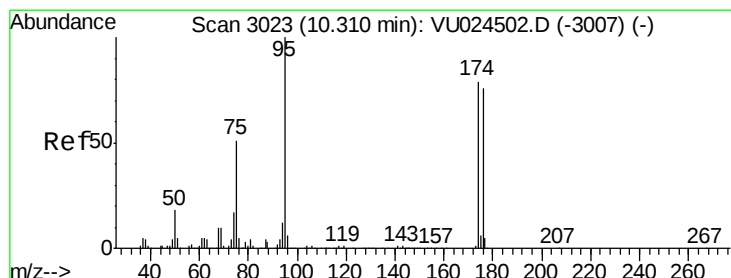
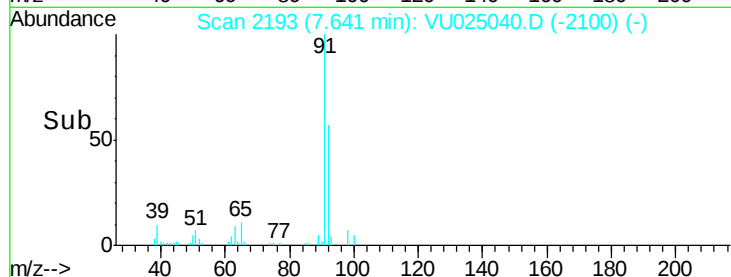
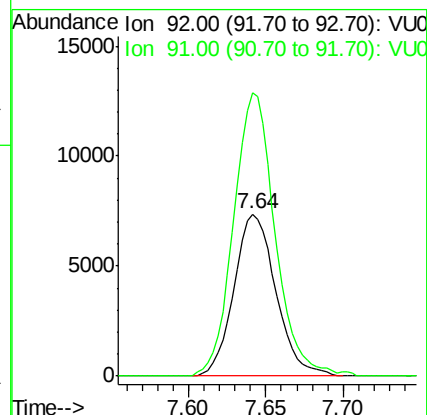
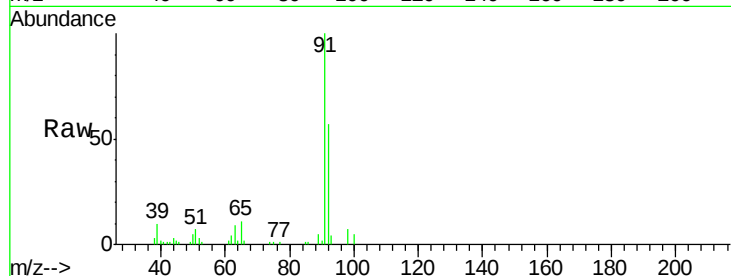
WP021SB474-35-37-180620ME

Tgt Ion: 92 Resp: 13855

Ion Ratio Lower Upper

92 100

91 172.7 140.5 210.7



#62

4-Bromofluorobenzene

Concen: 44.927 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

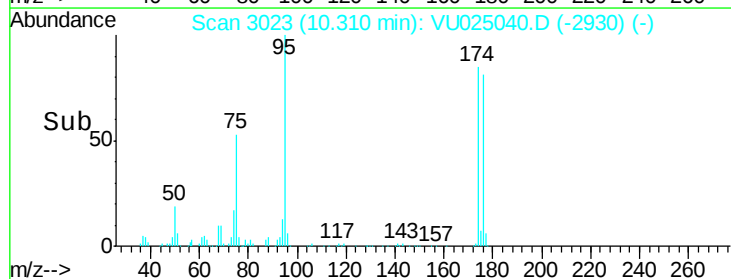
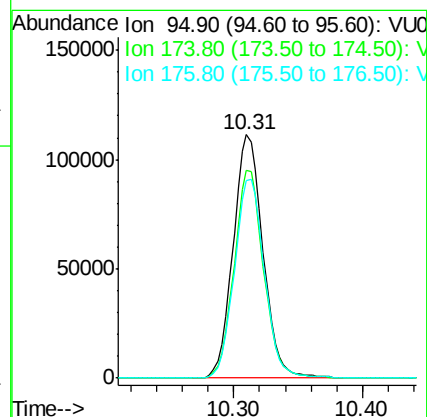
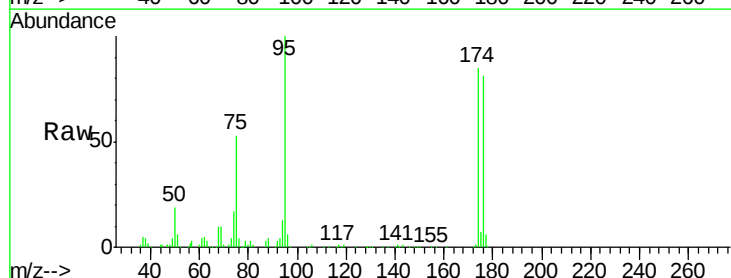
Tgt Ion: 95 Resp: 178493

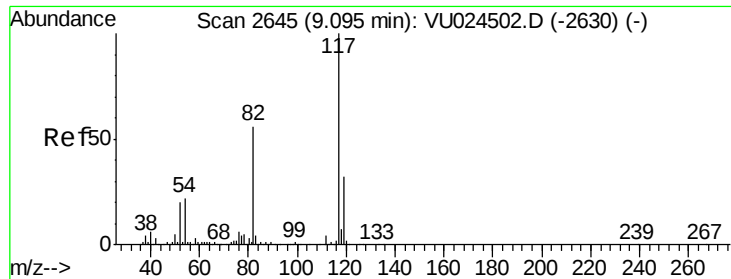
Ion Ratio Lower Upper

95 100

174 84.7 0.0 165.8

176 82.7 0.0 159.4

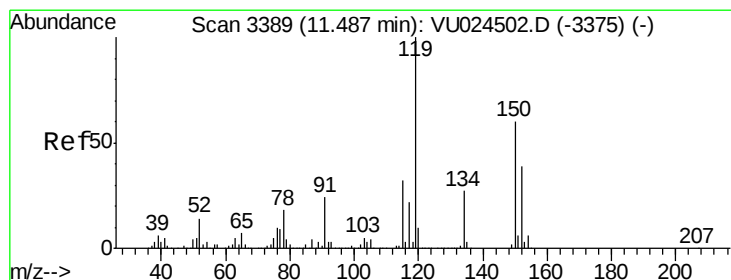
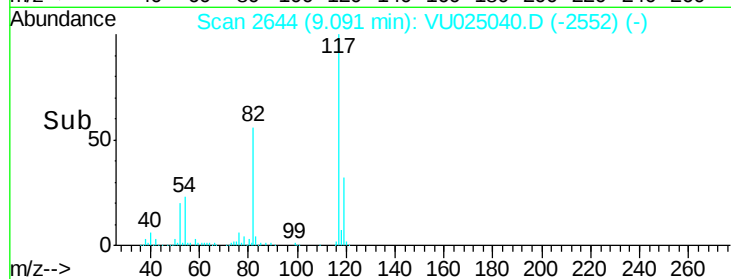
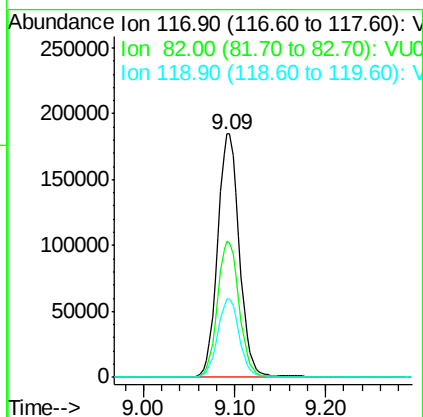
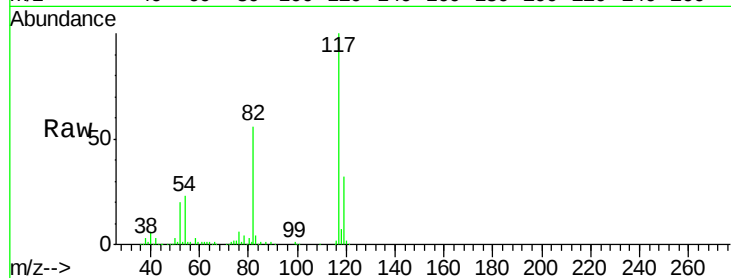




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU025040.D
Acq: 28 Jun 2018 23:58

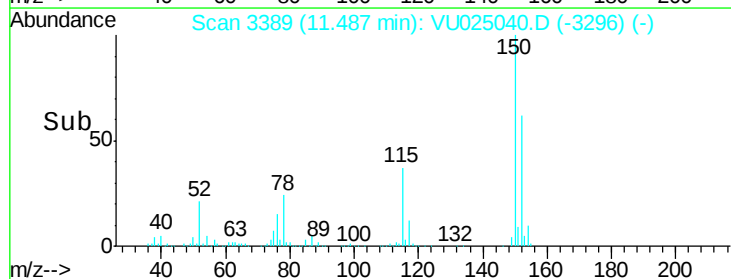
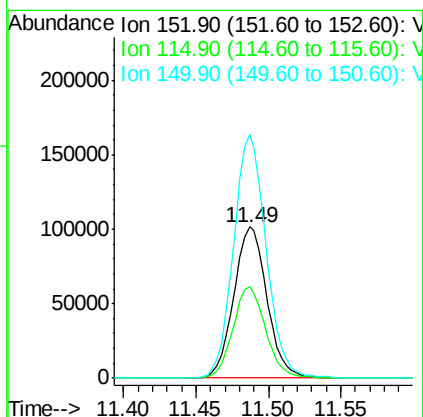
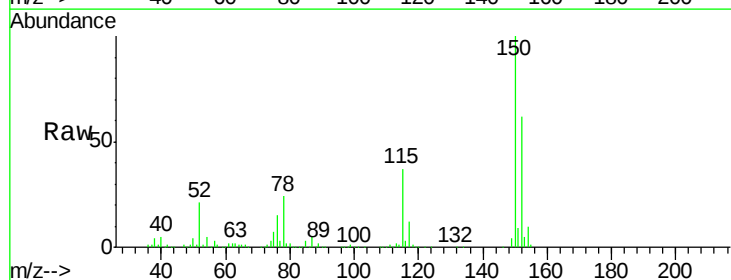
Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-35-37-180620ME

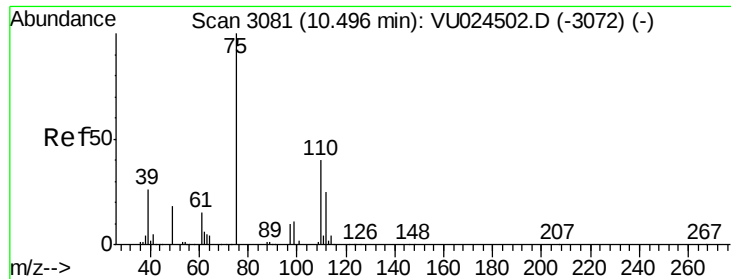
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.3	66.5
119	32.2	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025040.D
Acq: 28 Jun 2018 23:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.4	43.0	129.0
150	158.7	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 26.188 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

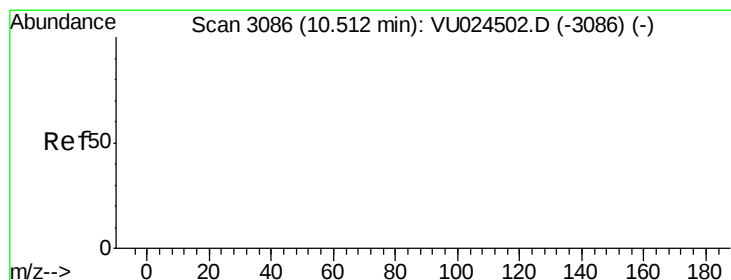
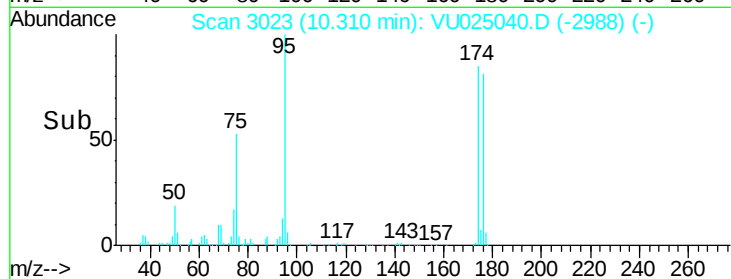
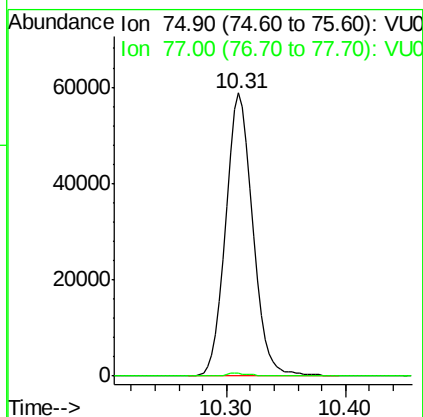
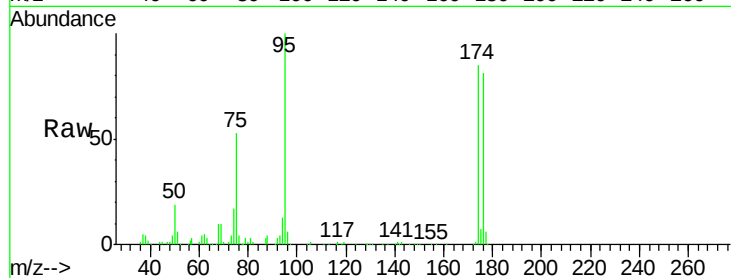
WP021SB474-35-37-180620ME

Tgt Ion: 75 Resp: 92793

Ion Ratio Lower Upper

75 100

77 0.9 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.609 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

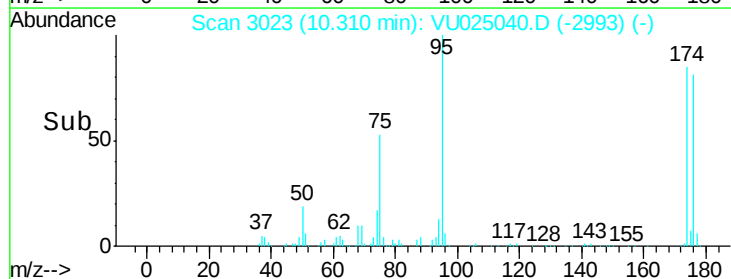
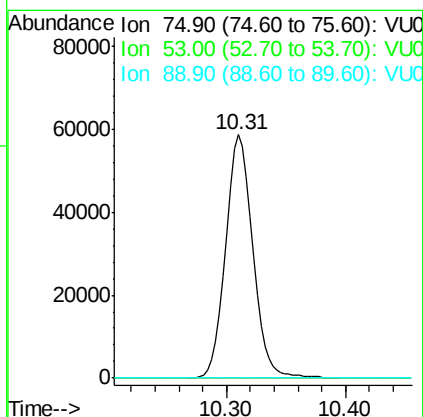
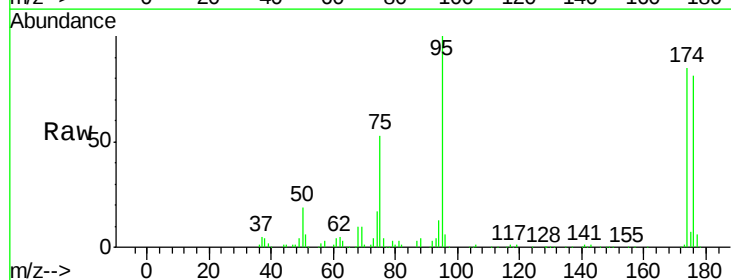
Tgt Ion: 75 Resp: 92793

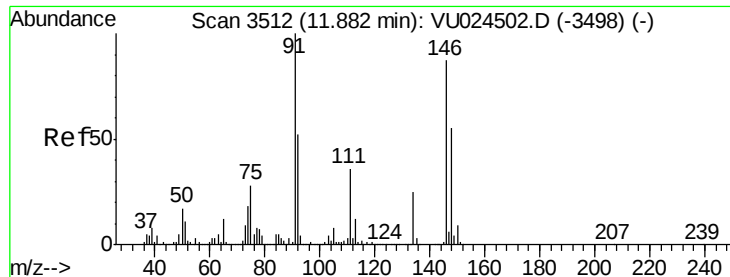
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#91

1,2-Dichlorobenzene

Concen: 0.925 ug/l

RT: 11.89 min Scan# 3513

Delta R.T. 0.00 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-35-37-180620ME

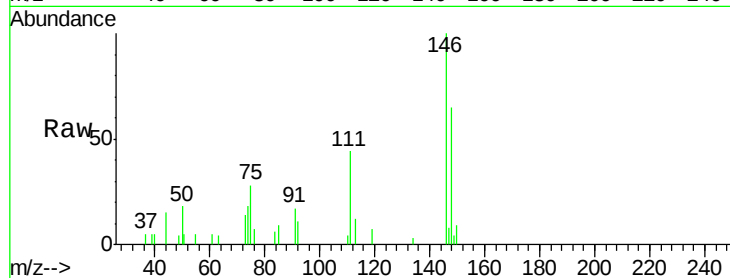
Tgt Ion:146 Resp: 5355

Ion Ratio Lower Upper

146 100

111 44.0 20.5 61.6

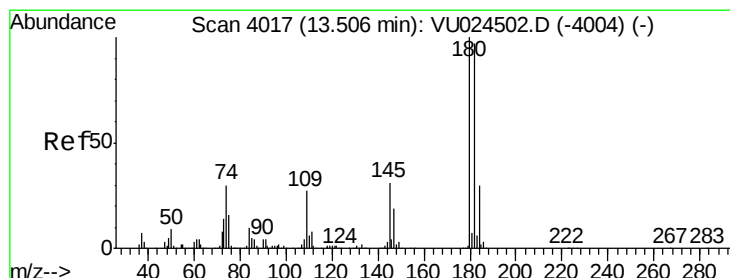
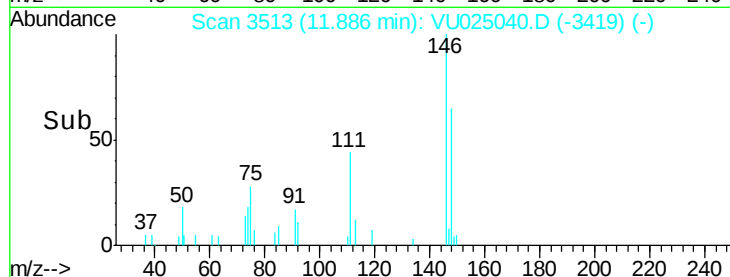
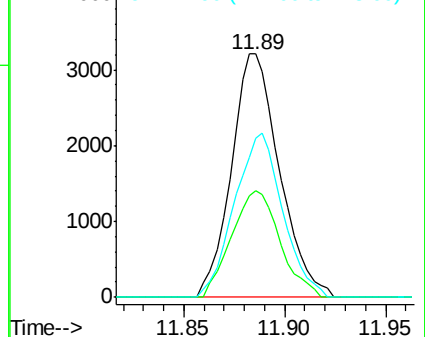
148 67.5 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.473 ug/l

RT: 13.51 min Scan# 4019

Delta R.T. 0.01 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

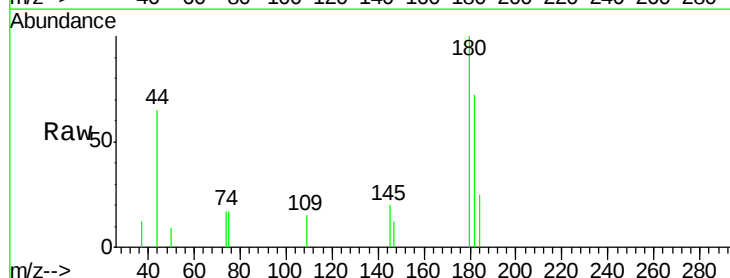
Tgt Ion:180 Resp: 1691

Ion Ratio Lower Upper

180 100

182 90.1 48.0 144.2

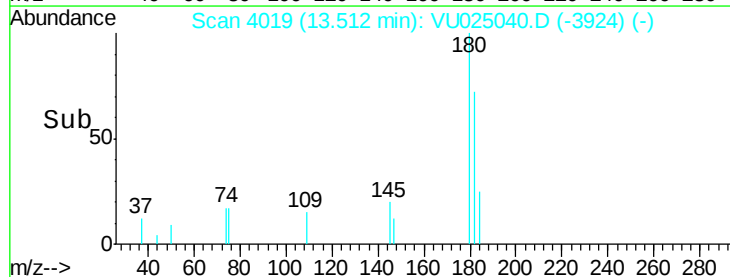
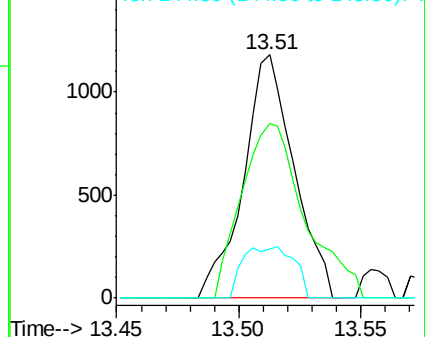
145 21.4 14.7 44.1

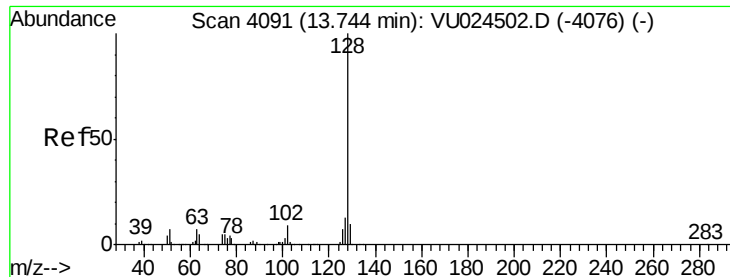


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 1.605 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-35-37-180620ME

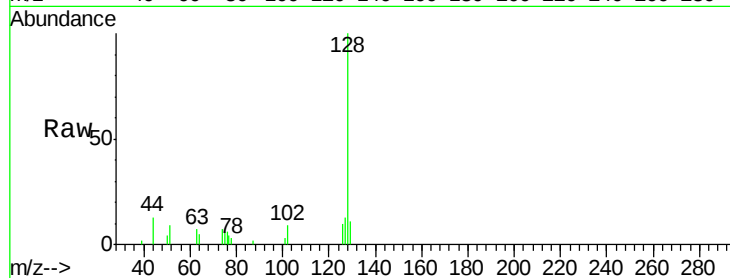
Tgt Ion:128 Resp: 11104

Ion Ratio Lower Upper

128 100

127 10.8 10.6 16.0

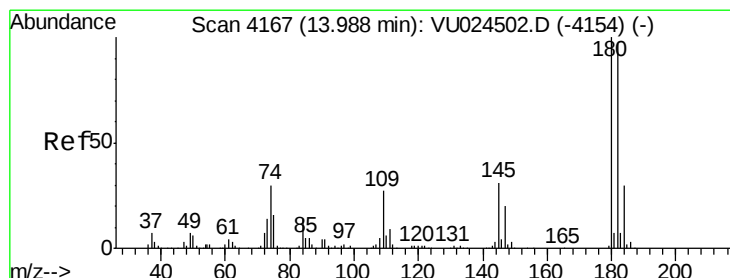
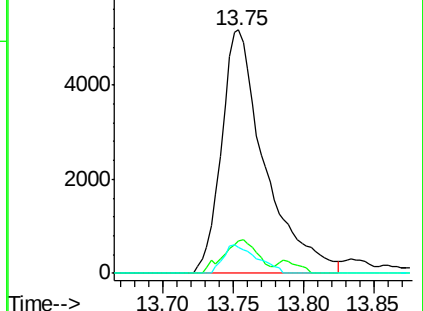
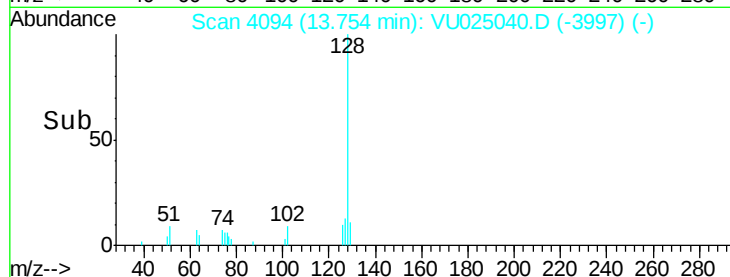
129 9.0 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 0.602 ug/l

RT: 14.00 min Scan# 4170

Delta R.T. 0.01 min

Lab File: VU025040.D

Acq: 28 Jun 2018 23:58

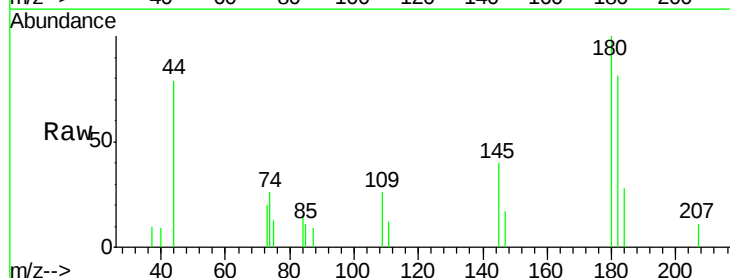
Tgt Ion:180 Resp: 2143

Ion Ratio Lower Upper

180 100

182 85.9 47.9 143.7

145 29.6 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

