

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062118\
 Data File : VU024812.D
 Acq On : 21 Jun 2018 15:40
 Operator : MD/SY
 Sample : J3517-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0182

Quant Time: Jun 22 03:51:39 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	204197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	309841	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	293952	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	157575	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	144081	43.22	ug/l	0.00
Spiked Amount			Recovery	=	86.44%	
35) Dibromofluoromethane	4.89	113	120973	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	7.57	98	448544	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	10.31	95	167531	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	

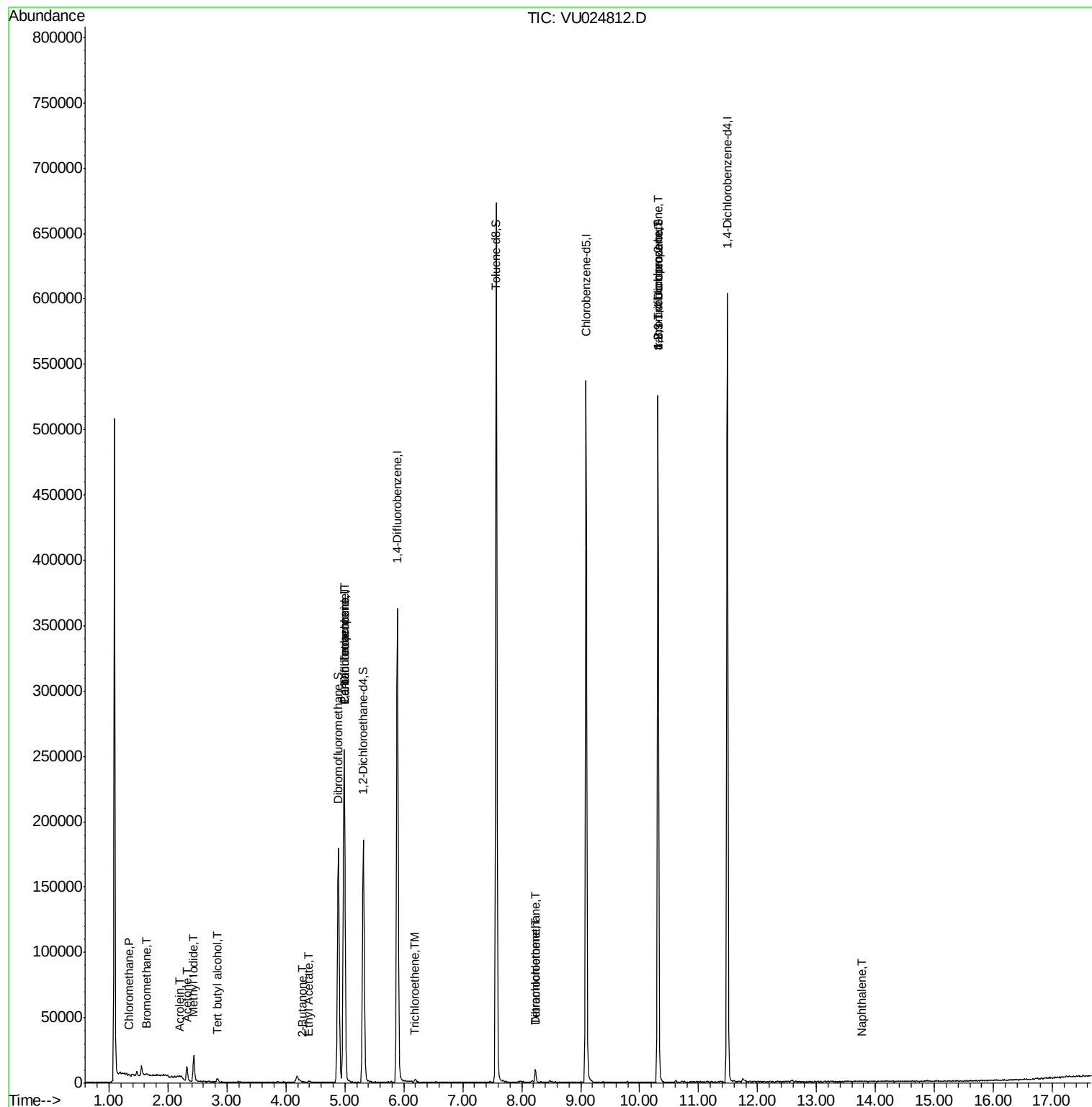
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1097	0.420	ug/l #	88
5) Bromomethane	1.64	94	579	0.445	ug/l #	81
6) Chloroethane	1.73	64	62	Below Cal	#	43
10) Methyl Iodide	2.42	142	159	5.354	ug/l #	40
11) Tert butyl alcohol	2.84	59	1355	1.671	ug/l #	72
13) Acrolein	2.21	56	445	1.045	ug/l #	66
16) Acetone	2.32	43	11570	6.460	ug/l	95
25) 2-Butanone	4.27	43	737	0.306	ug/l #	51
31) Cyclohexane	4.99	56	4244	Below Cal	#	19
36) 1,1-Dichloropropene	4.99	75	14888	4.089	ug/l #	51
37) Ethyl Acetate	4.39	43	2120	0.534	ug/l #	79
38) Carbon Tetrachloride	4.99	117	17990	4.493	ug/l #	16
44) Trichloroethene	6.19	130	748	0.253	ug/l	99
60) Dibromochloromethane	8.23	129	2117	0.626	ug/l #	11
64) Tetrachloroethene	8.23	164	2199	0.787	ug/l	92
76) 1,2,3-Trichloropropane	10.31	75	86457	24.921	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	86457	57.678	ug/l #	100
95) Naphthalene	13.77	128	320	0.706	ug/l #	69

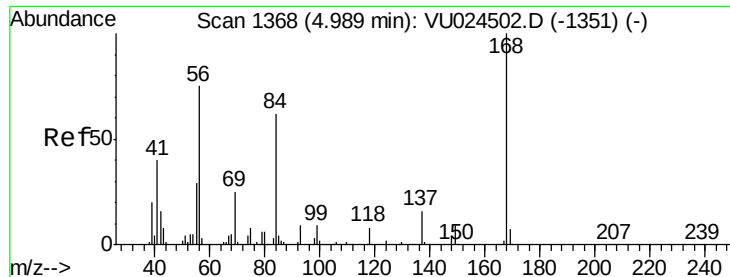
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

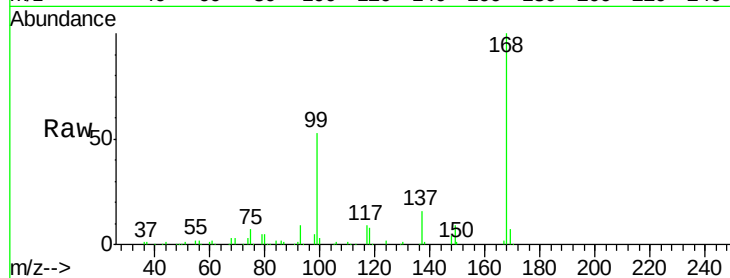
S39-0182

Tot Ion:168 Resp: 204197

Ion Ratio Lower Upper

168 100

99 52.5 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024812.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024812.D (-1275) (-)

4.99

100000

80000

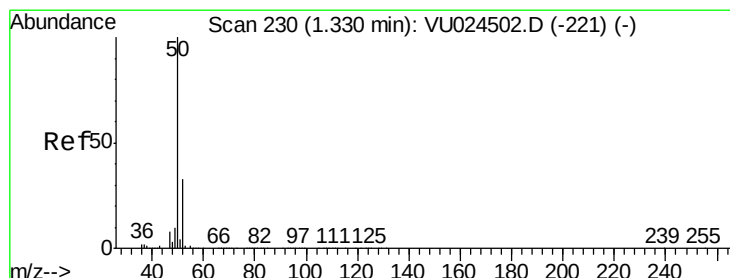
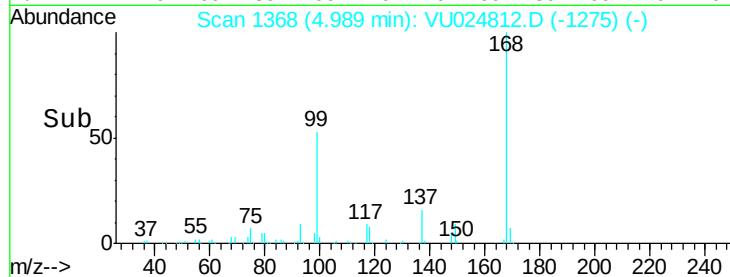
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.420 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024812.D

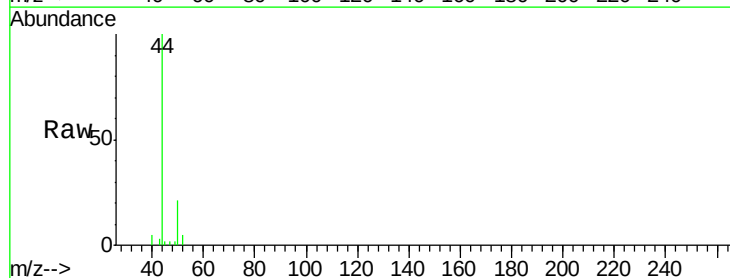
Acq: 21 Jun 2018 15:40

Tgt Ion: 50 Resp: 1097

Ion Ratio Lower Upper

50 100

52 26.4 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024812.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024812.D (-137) (-)

1.33

1200

1000

800

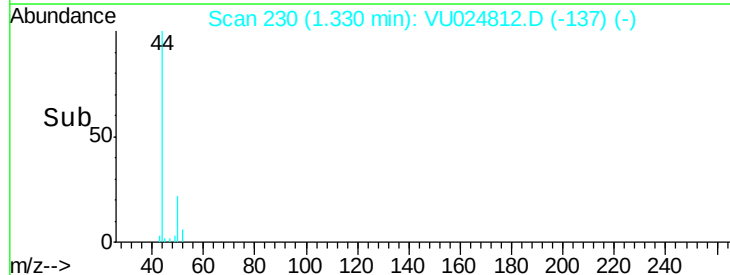
600

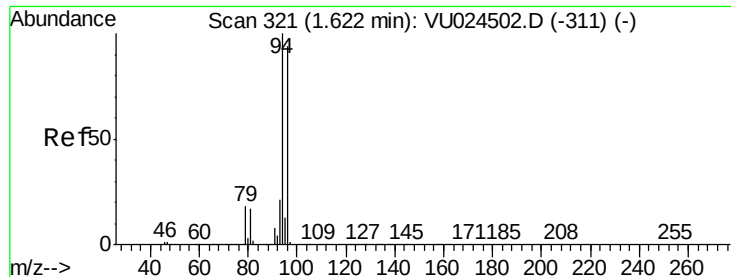
400

200

0

Time-->





#5

Bromomethane

Concen: 0.445 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

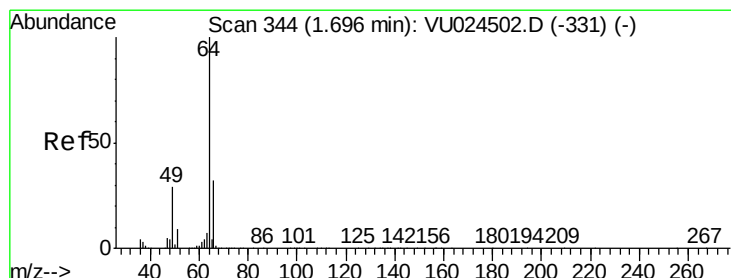
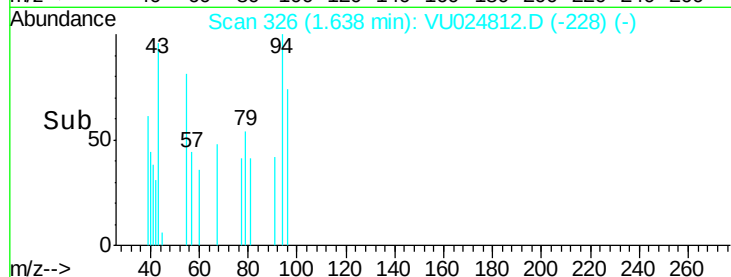
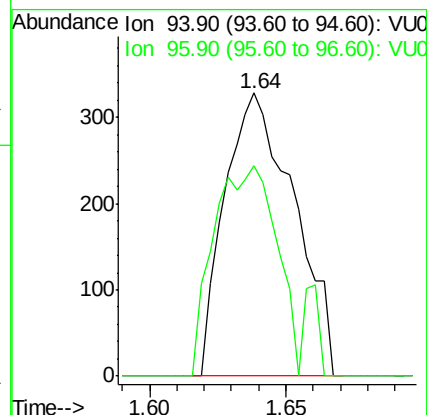
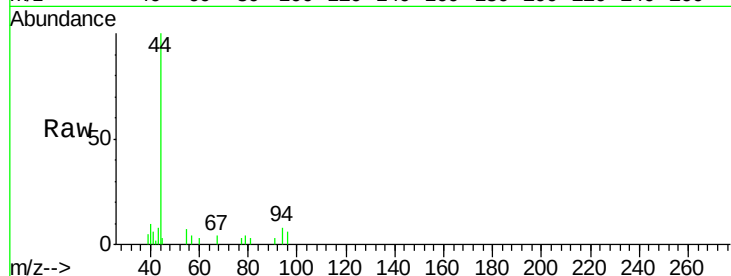
S39-0182

Tot Ion: 94 Resp: 579

Ion Ratio Lower Upper

94 100

96 74.4 74.5 111.7#



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 353

Delta R.T. 0.03 min

Lab File: VU024812.D

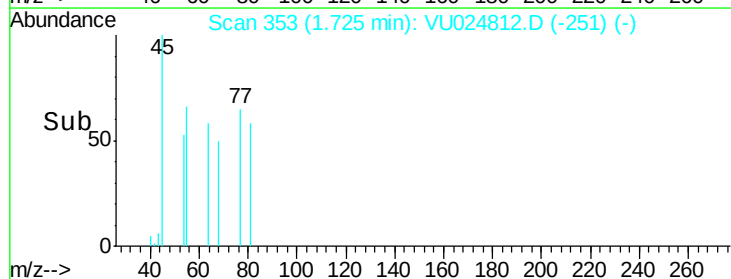
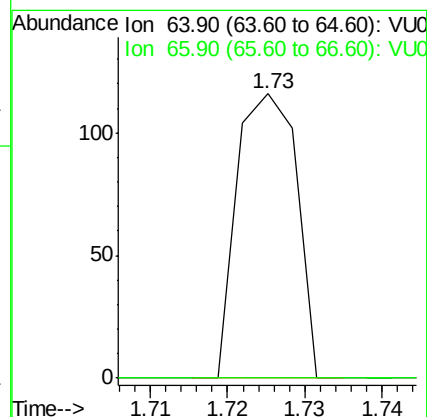
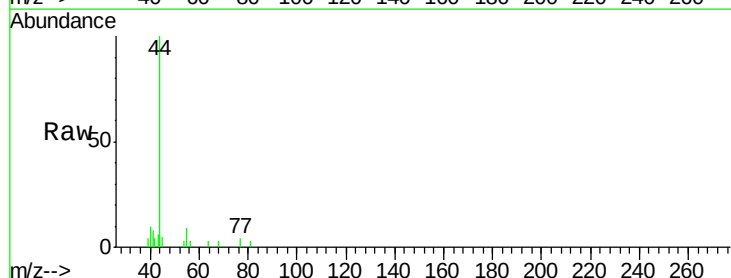
Acq: 21 Jun 2018 15:40

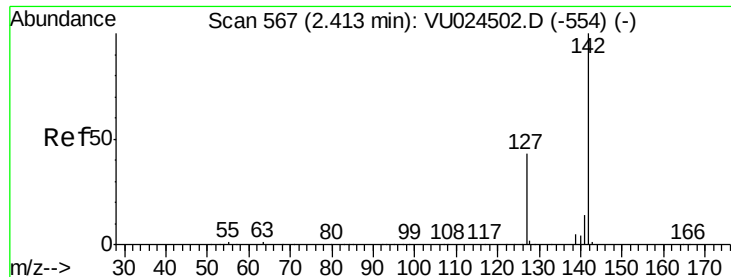
Tgt Ion: 64 Resp: 62

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#10

Methvl Iodide

Concen: 5.354 ug/l

RT: 2.42 min Scan# 569

Delta R.T. 0.01 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

S39-0182

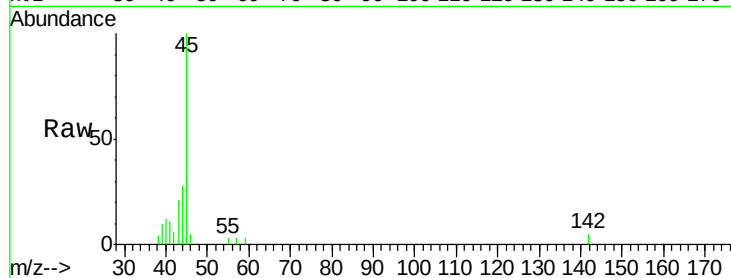
Tot Ion:142 Resp: 159

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

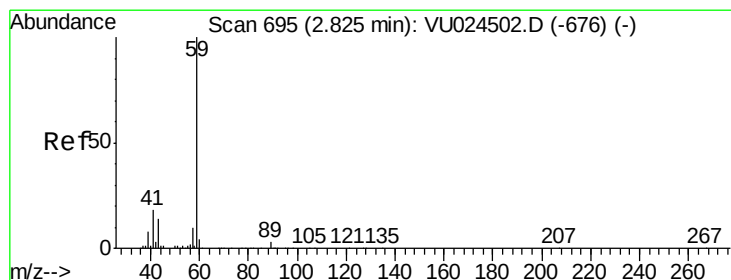
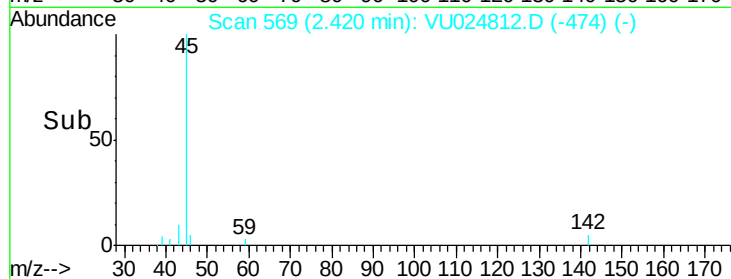
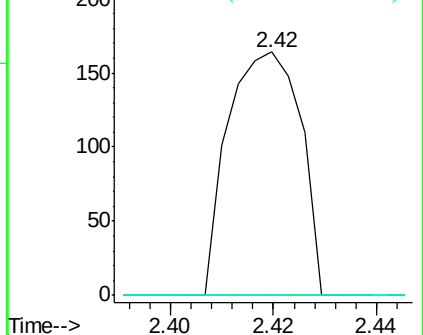
141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.671 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU024812.D

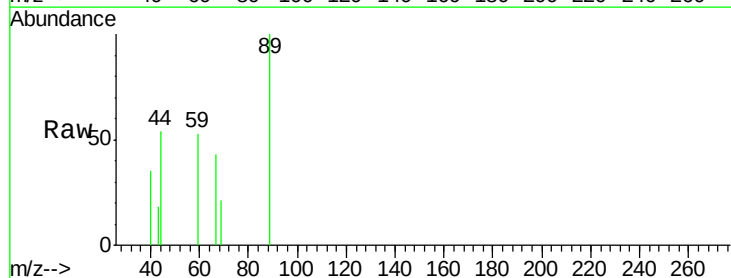
Acq: 21 Jun 2018 15:40

Tgt Ion: 59 Resp: 1355

Ion Ratio Lower Upper

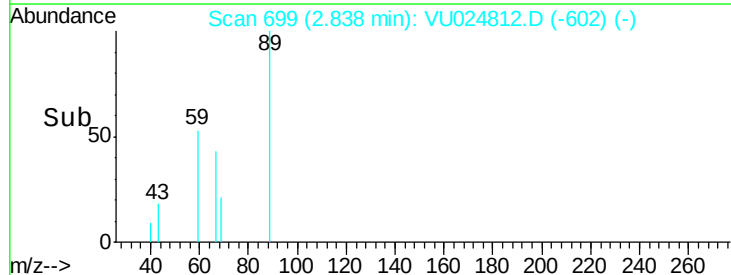
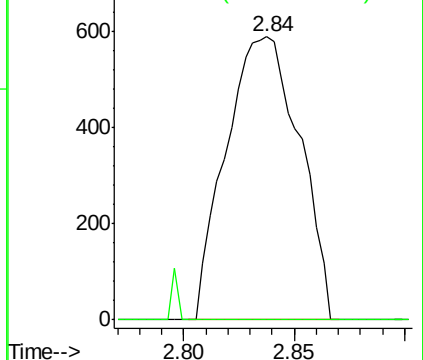
59 100

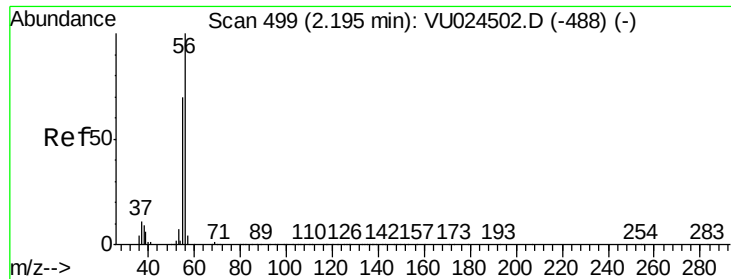
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

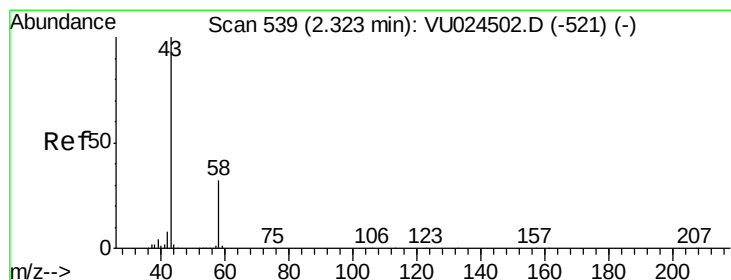
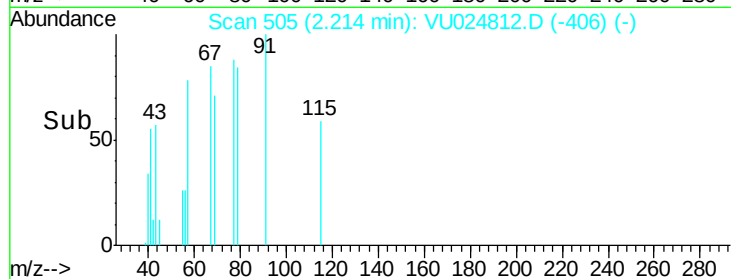
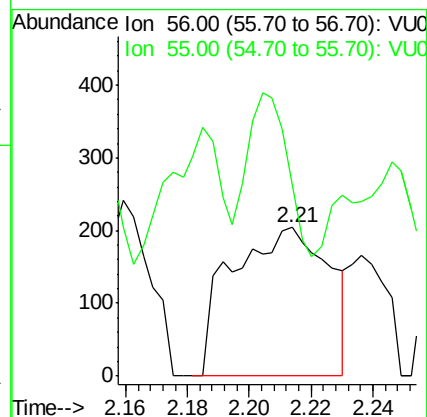
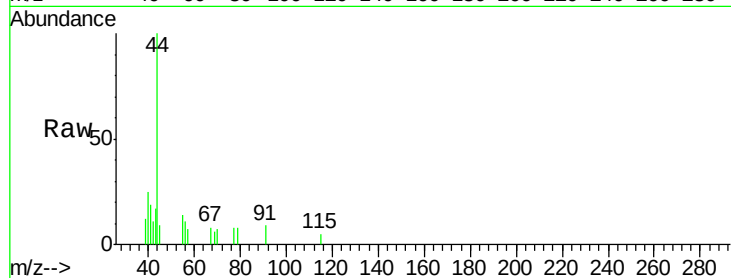




#13
Acrolein
Concen: 1.045 ug/l
RT: 2.21 min Scan# 505
Delta R.T. 0.02 min
Lab File: VU024812.D
Acq: 21 Jun 2018 15:40

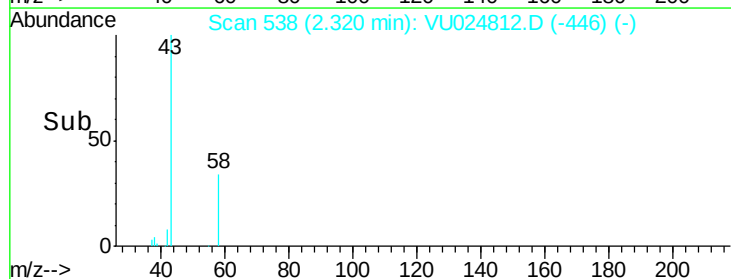
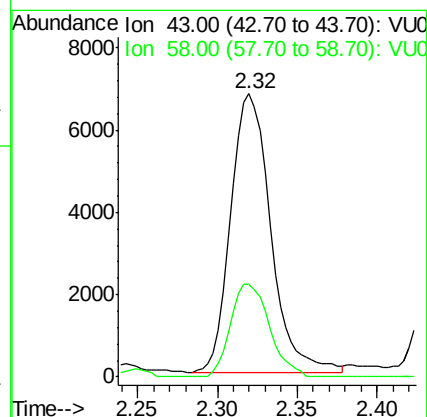
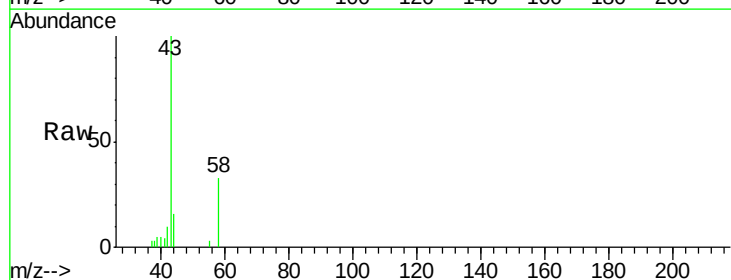
Instrument :
MSVOA_U
ClientSampleId :
S39-0182

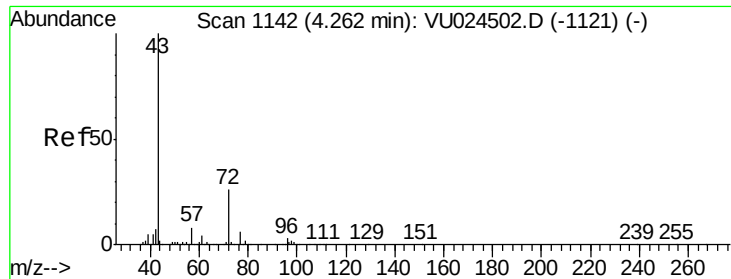
Tot Ion: 56 Resp: 445
Ion Ratio Lower Upper
56 100
55 44.7 58.4 87.6#



#16
Acetone
Concen: 6.460 ug/l
RT: 2.32 min Scan# 538
Delta R.T. -0.00 min
Lab File: VU024812.D
Acq: 21 Jun 2018 15:40

Tgt Ion: 43 Resp: 11570
Ion Ratio Lower Upper
43 100
58 33.3 24.4 36.6





#25

2-Butanone

Concen: 0.306 ug/l

RT: 4.27 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

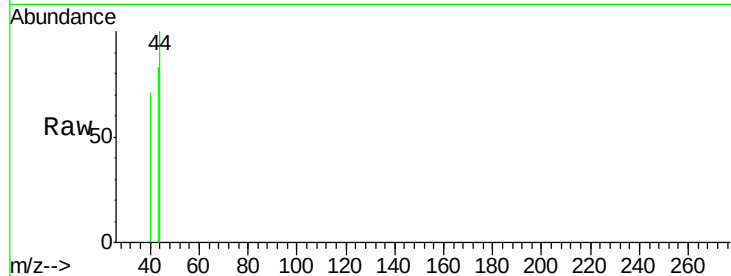
S39-0182

Tot Ion: 43 Resp: 737

Ion Ratio Lower Upper

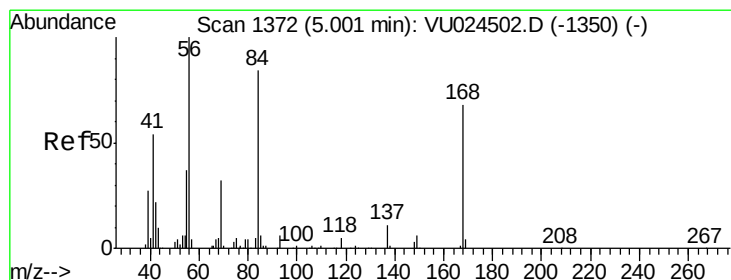
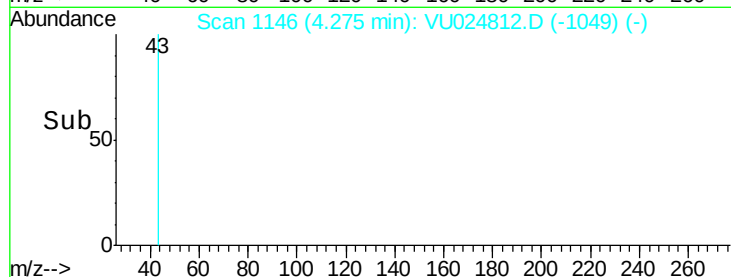
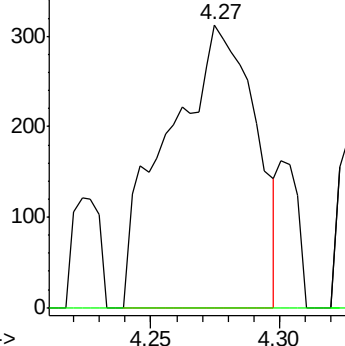
43 100

72 0.0 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

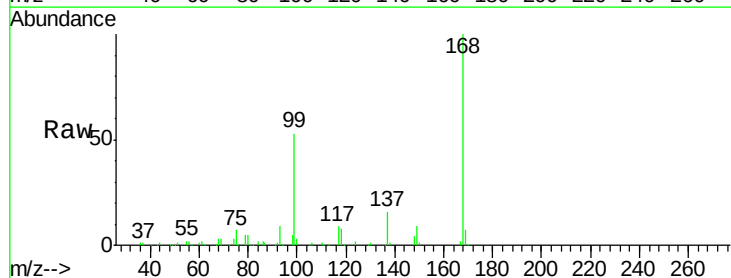
Tgt Ion: 56 Resp: 4244

Ion Ratio Lower Upper

56 100

69 151.5 24.8 37.2#

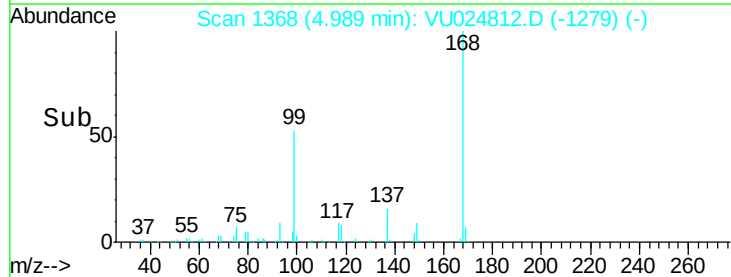
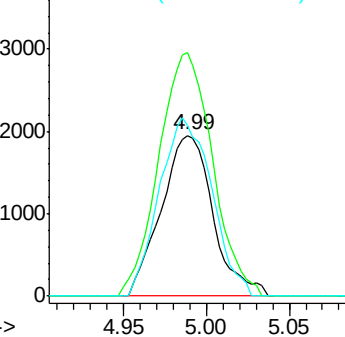
84 106.5 65.2 97.8#

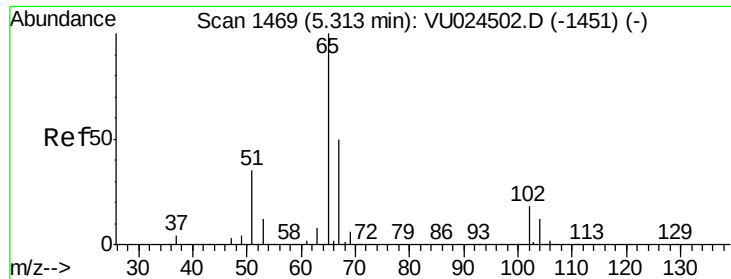


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

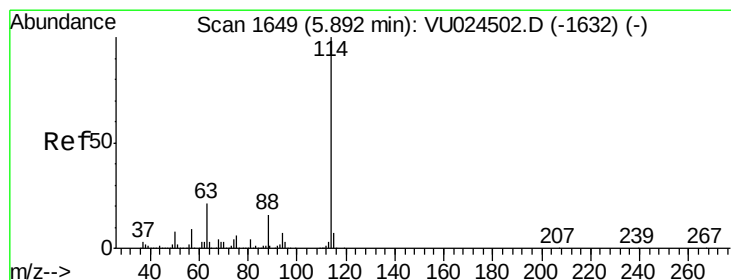
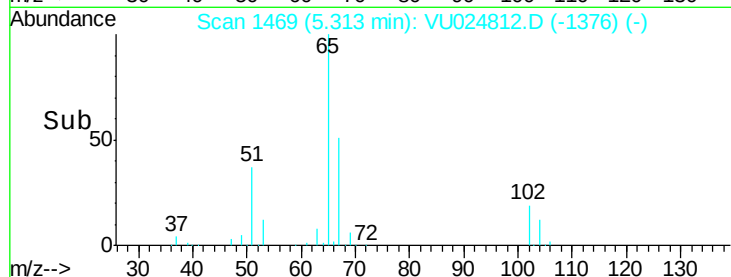
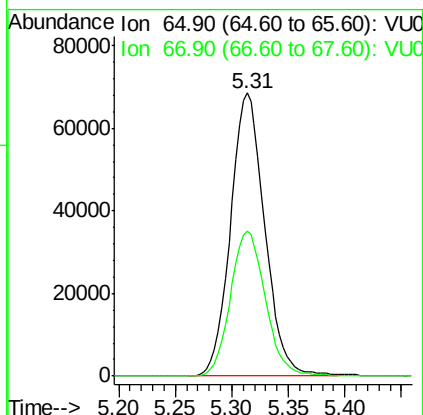
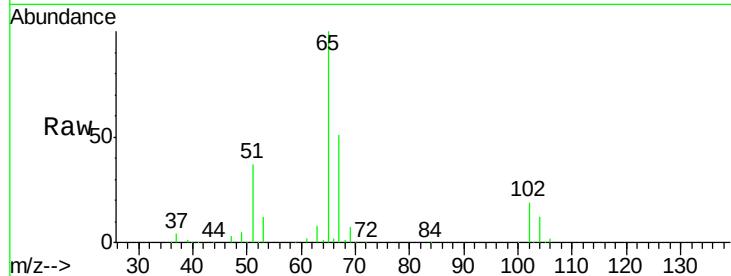




#33
 1,2-Dichloroethane-d4
 Concen: 43.221 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024812.D
 Acq: 21 Jun 2018 15:40

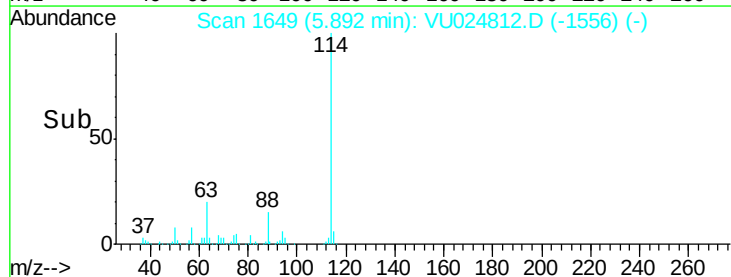
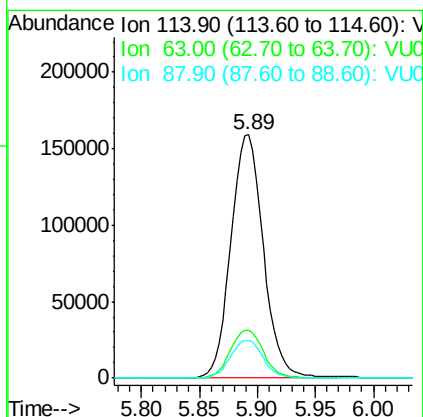
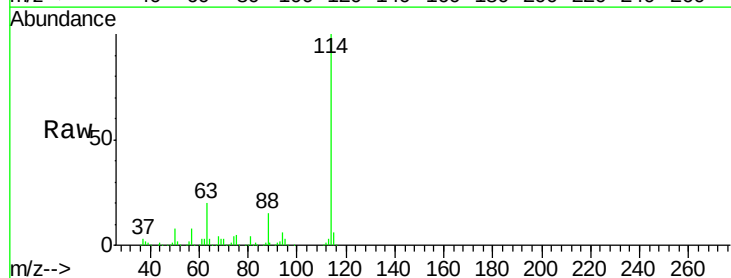
Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0182

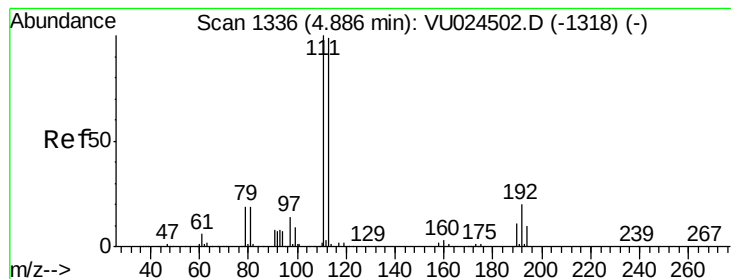
Tot Ion: 65 Resp: 144081
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024812.D
 Acq: 21 Jun 2018 15:40

Tgt Ion: 114 Resp: 309841
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 45.4
 88 15.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.045 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

S39-0182

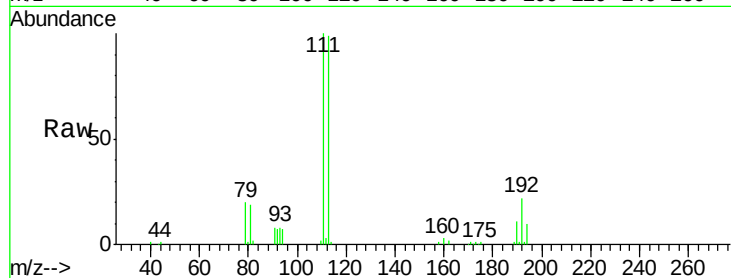
Tot Ion:113 Resp: 120973

Ion Ratio Lower Upper

113 100

111 101.2 82.2 123.4

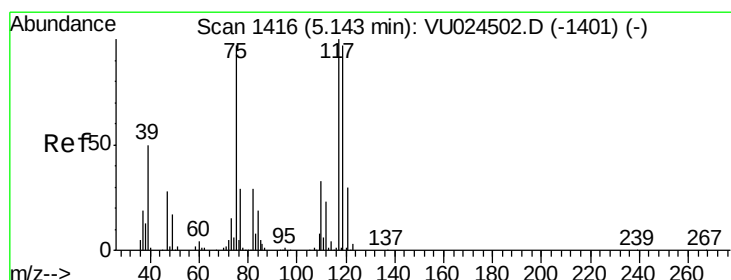
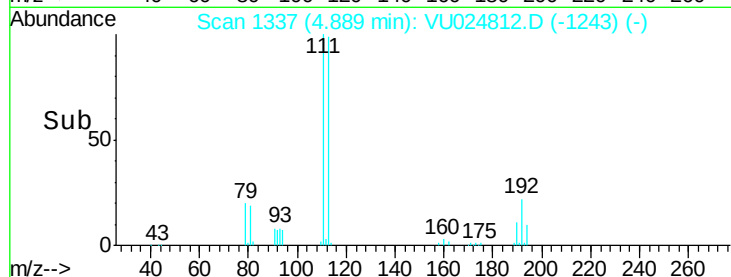
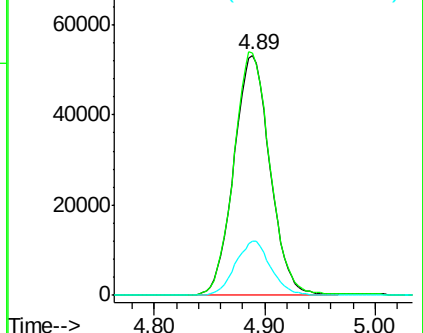
192 22.1 16.2 24.4



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: 4.089 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

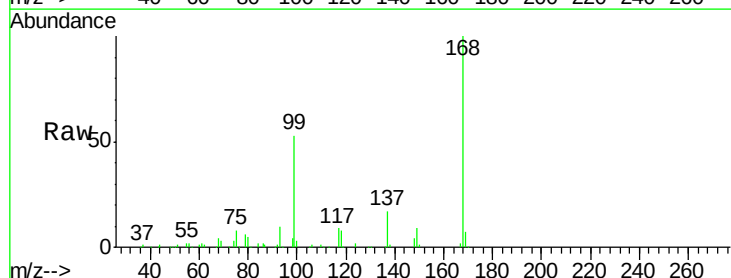
Tgt Ion: 75 Resp: 14888

Ion Ratio Lower Upper

75 100

110 9.6 17.0 50.9#

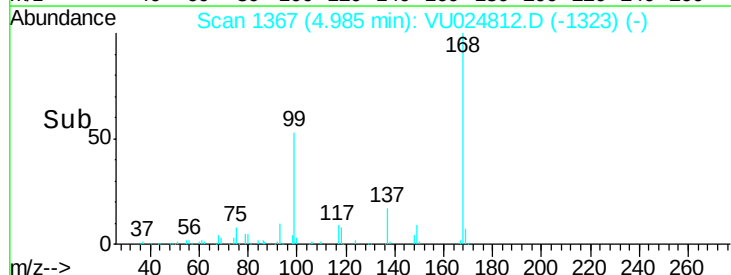
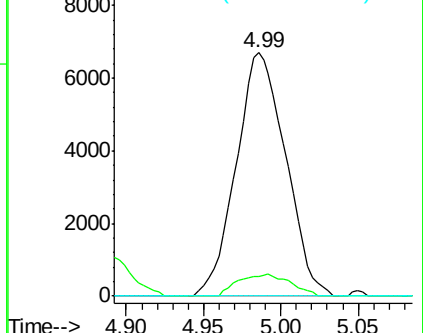
77 0.0 24.2 36.4#

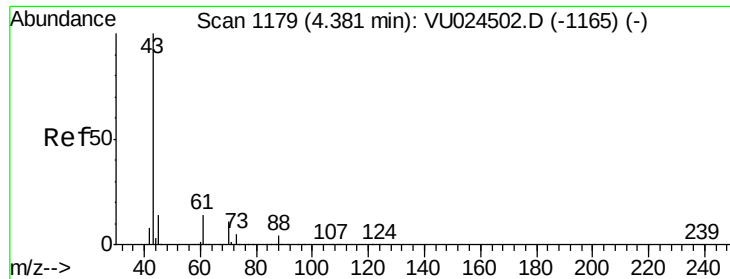


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

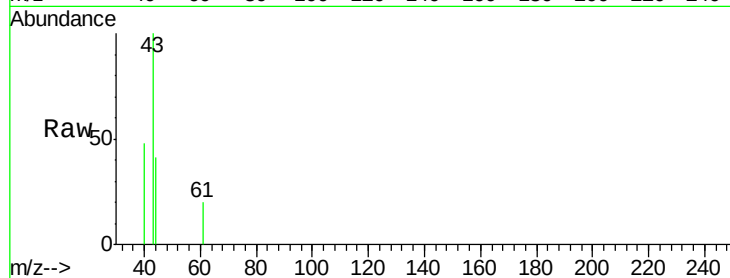




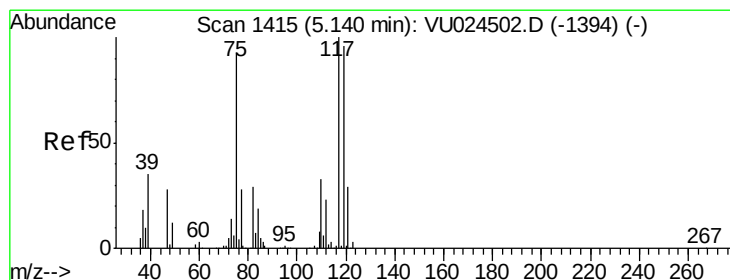
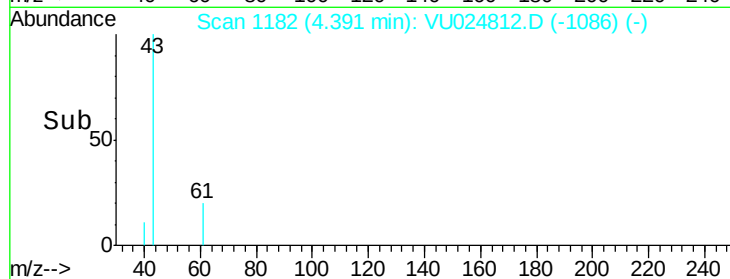
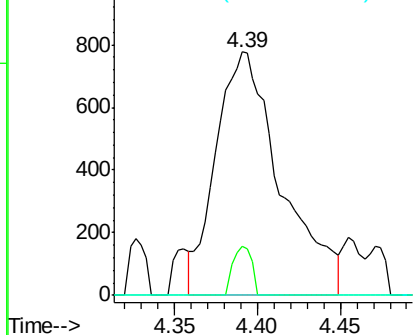
#37
Ethyl Acetate
Concen: 0.534 ug/l
RT: 4.39 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VU024812.D
Acq: 21 Jun 2018 15:40

Instrument :
MSVOA_U
ClientSampled :
S39-0182

Tot Ion: 43 Resp: 2120
Ion Ratio Lower Upper
43 100
61 5.9 10.5 15.7#
70 0.0 7.4 11.2#

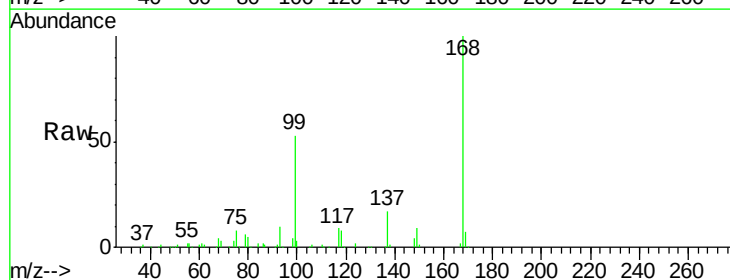


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 70.00 (69.70 to 70.70): VU0

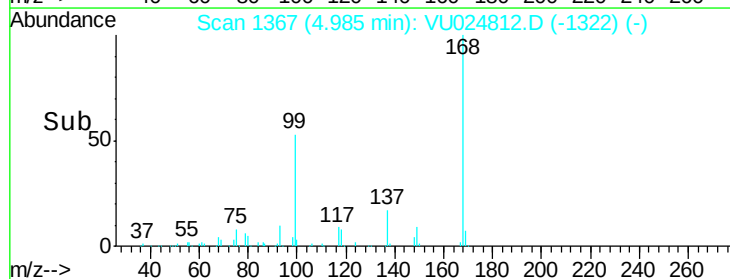
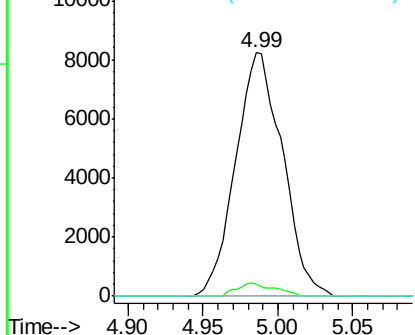


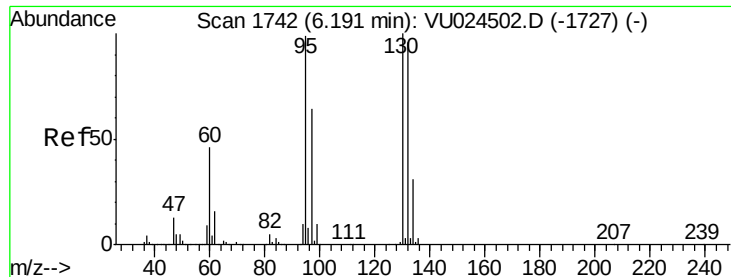
#38
Carbon Tetrachloride
Concen: 4.493 ug/l
RT: 4.99 min Scan# 1367
Delta R.T. -0.15 min
Lab File: VU024812.D
Acq: 21 Jun 2018 15:40

Tgt Ion: 117 Resp: 17990
Ion Ratio Lower Upper
117 100
119 4.8 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





#44

Trichloroethene

Concen: 0.253 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

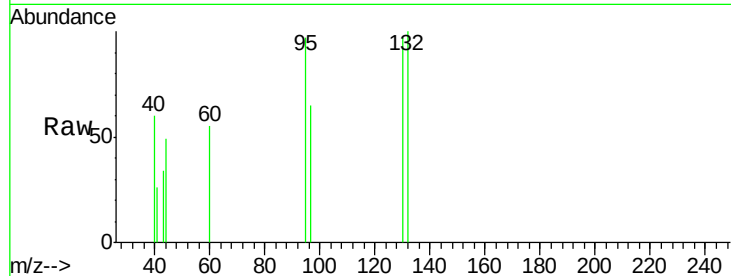
S39-0182

Tot Ion:130 Resp: 748

Ion Ratio Lower Upper

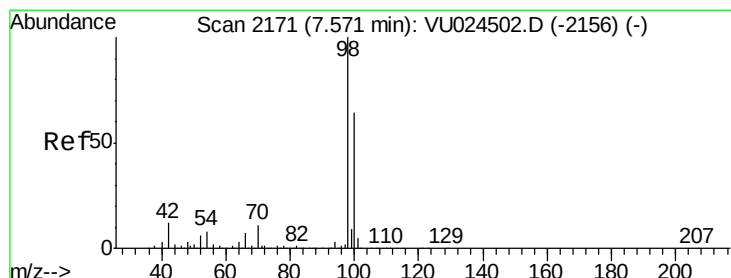
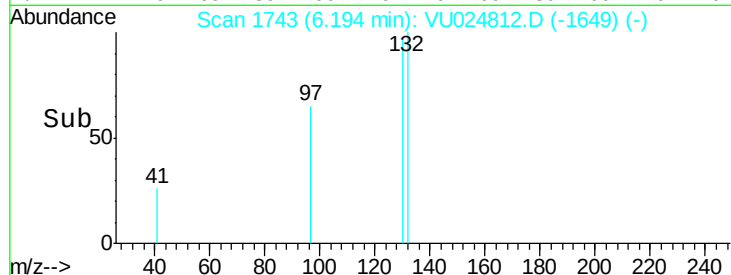
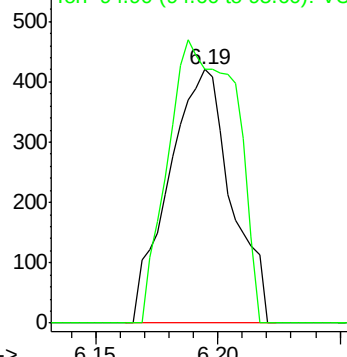
130 100

95 100.0 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU



#50

Toluene-d8

Concen: 47.821 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024812.D

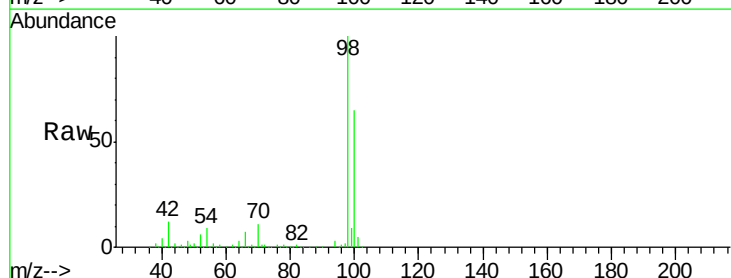
Acq: 21 Jun 2018 15:40

Tgt Ion: 98 Resp: 448544

Ion Ratio Lower Upper

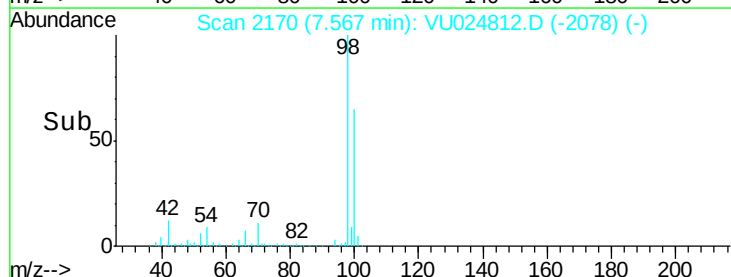
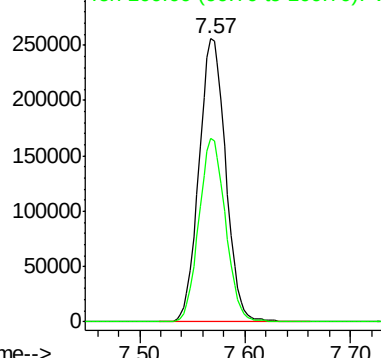
98 100

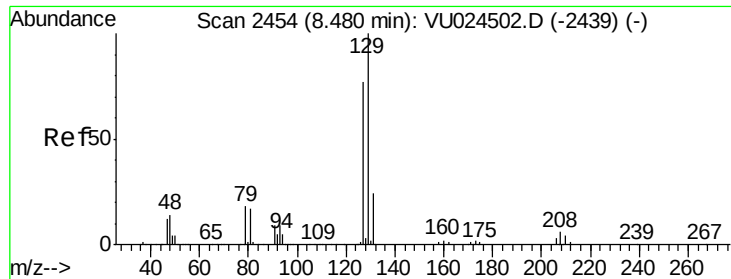
100 64.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU

Ion 100.00 (99.70 to 100.70): VU





#60

Dibromochloromethane

Concen: 0.626 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

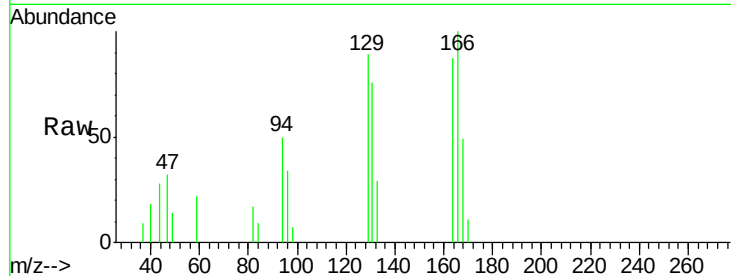
S39-0182

Tot Ion:129 Resp: 2117

Ion Ratio Lower Upper

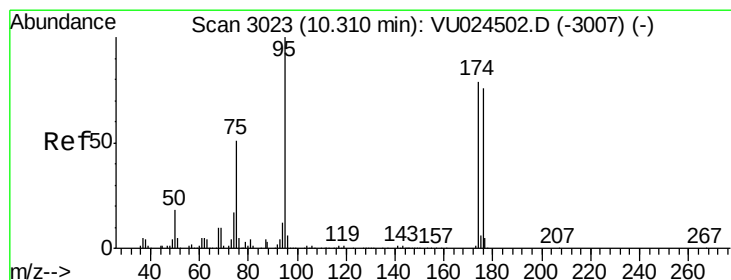
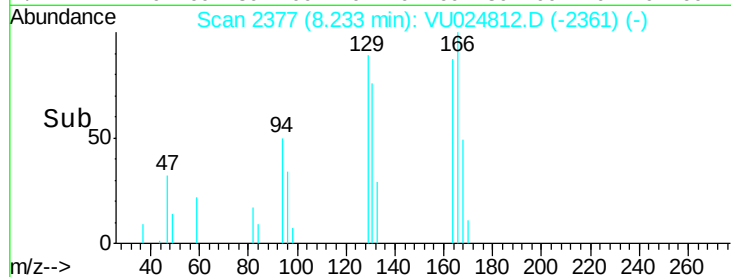
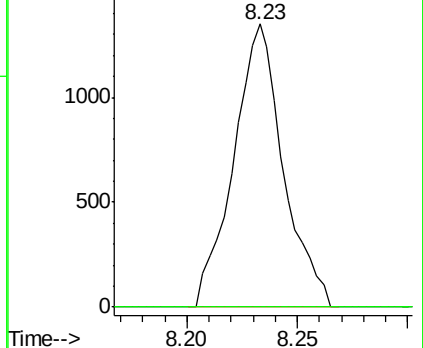
129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.986 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

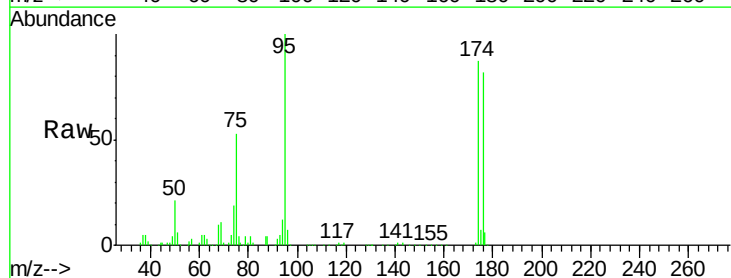
Tgt Ion: 95 Resp: 167531

Ion Ratio Lower Upper

95 100

174 86.8 0.0 165.8

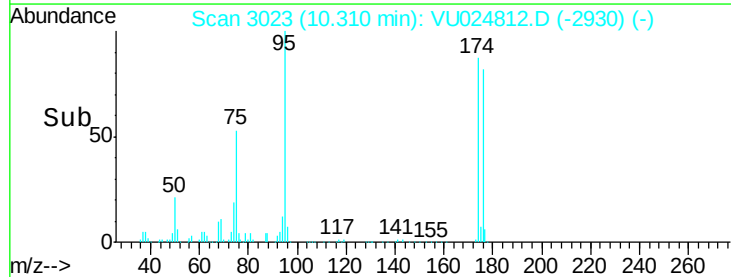
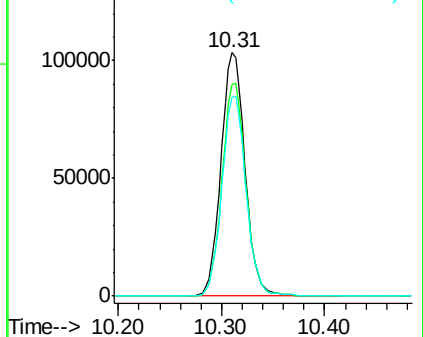
176 82.5 0.0 159.4

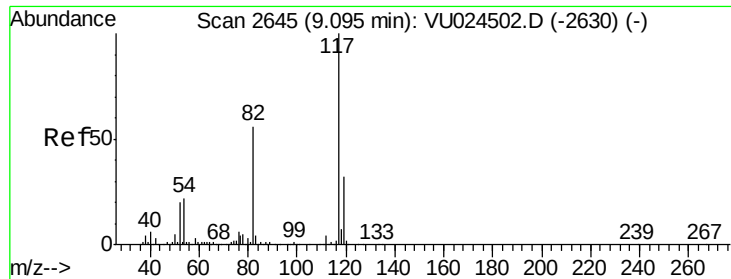


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

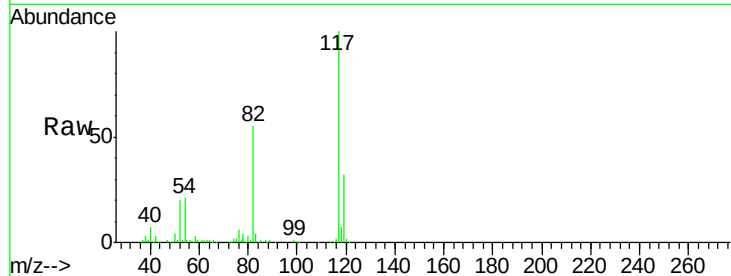




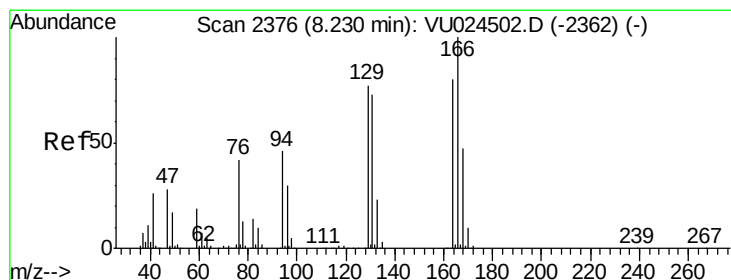
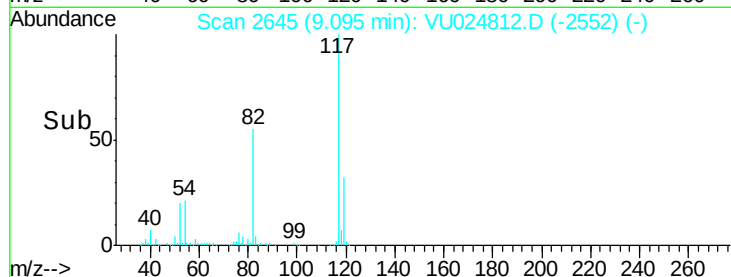
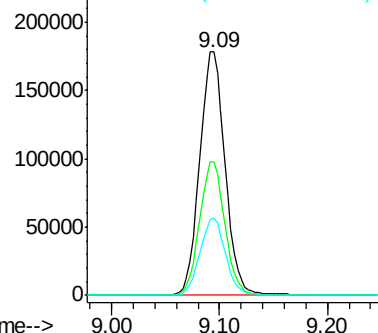
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024812.D
Acq: 21 Jun 2018 15:40

Instrument :
MSVOA_U
ClientSampleId :
S39-0182

Tot Ion:117 Resp: 293952
Ion Ratio Lower Upper
117 100
82 54.7 44.3 66.5
119 31.8 25.4 38.2

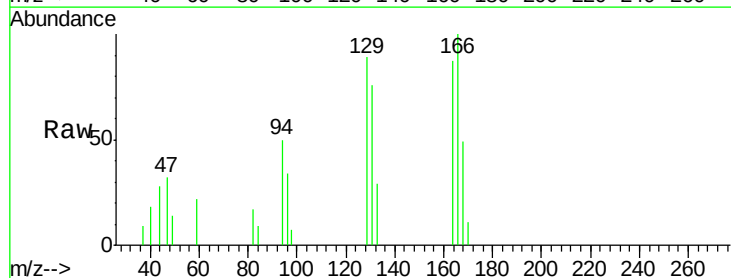


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

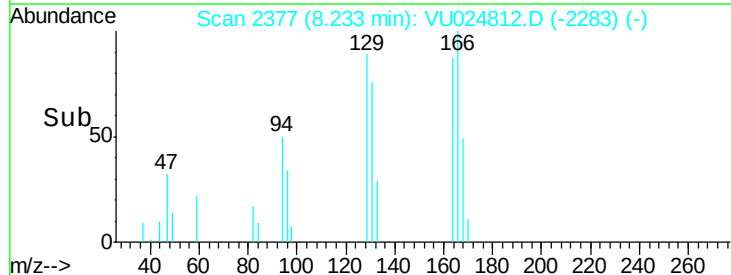
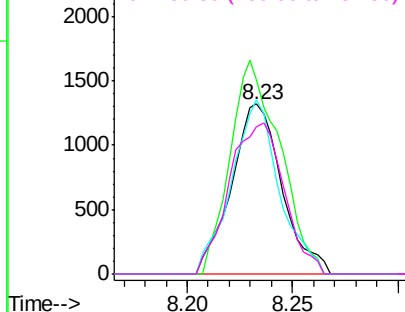


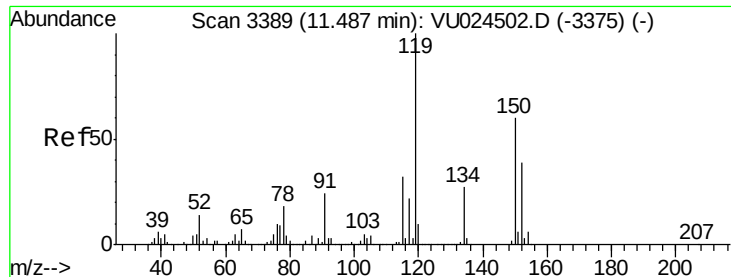
#64
Tetrachloroethene
Concen: 0.787 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU024812.D
Acq: 21 Jun 2018 15:40

Tgt Ion:164 Resp: 2199
Ion Ratio Lower Upper
164 100
166 114.9 101.7 152.5
129 102.3 76.9 115.3
131 86.8 74.9 112.3



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

S39-0182

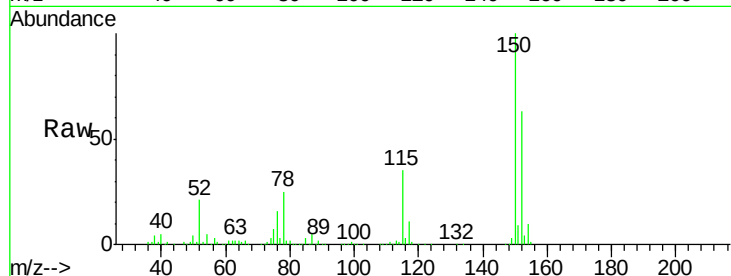
Tot Ion:152 Resp: 157575

Ion Ratio Lower Upper

152 100

115 56.0 43.0 129.0

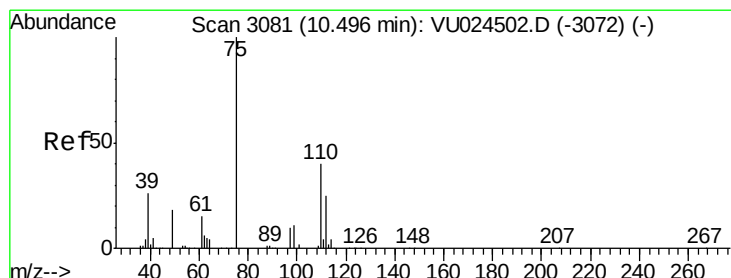
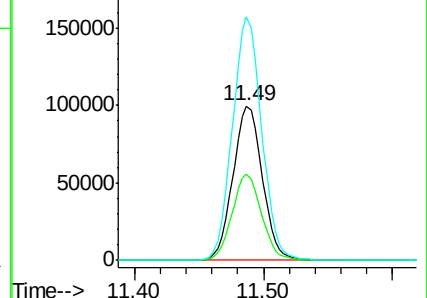
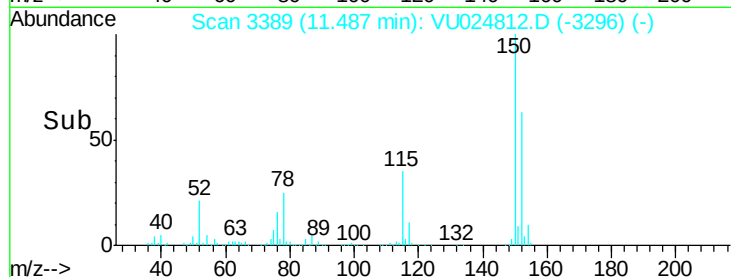
150 156.8 0.0 354.0



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: 24.921 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024812.D

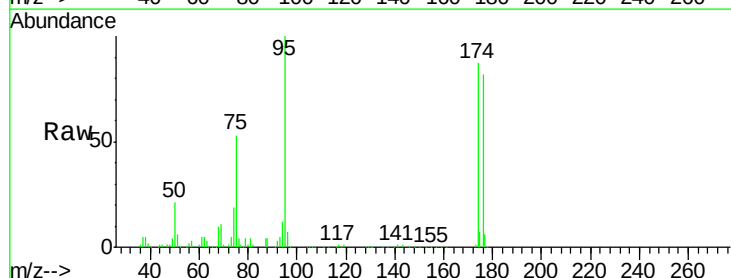
Acq: 21 Jun 2018 15:40

Tgt Ion: 75 Resp: 86457

Ion Ratio Lower Upper

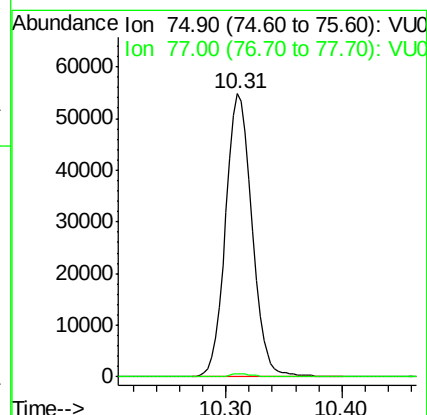
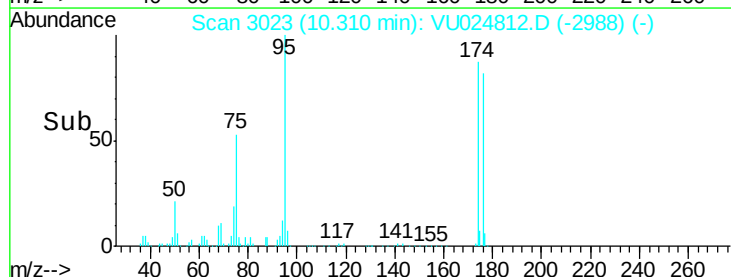
75 100

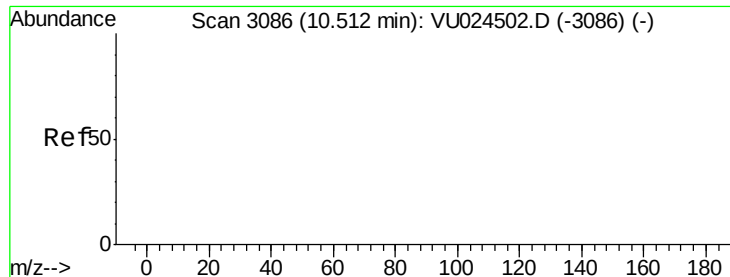
77 1.0 20.9 62.7#



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: 57.678 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

Instrument :

MSVOA_U

ClientSampleId :

S39-0182

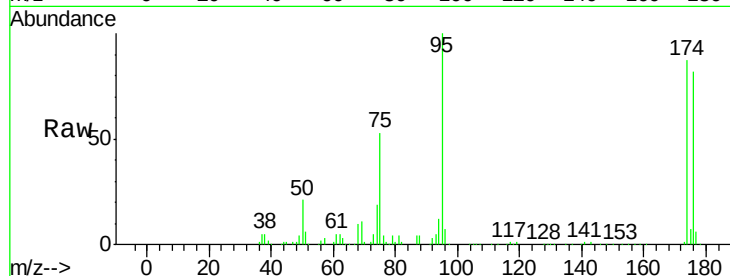
Tot Ion: 75 Resp: 86457

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

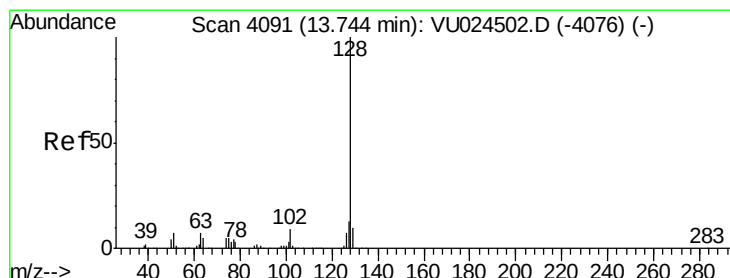
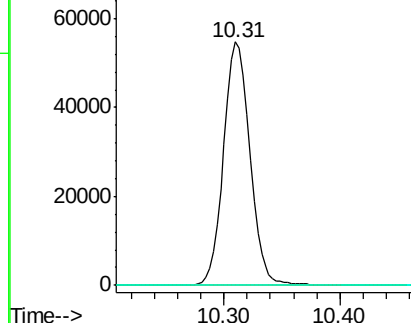
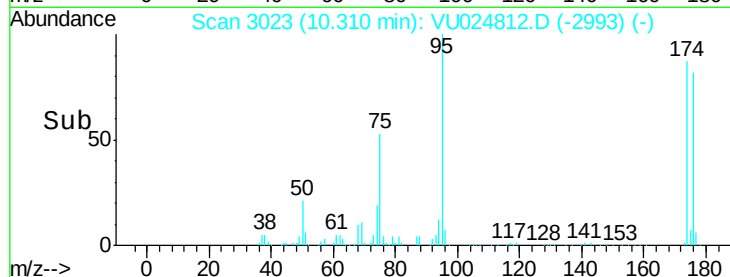
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024812.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024812.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024812.D (-2993) (-)



#95

Naphthalene

Concen: 0.706 ug/l

RT: 13.77 min Scan# 4098

Delta R.T. 0.02 min

Lab File: VU024812.D

Acq: 21 Jun 2018 15:40

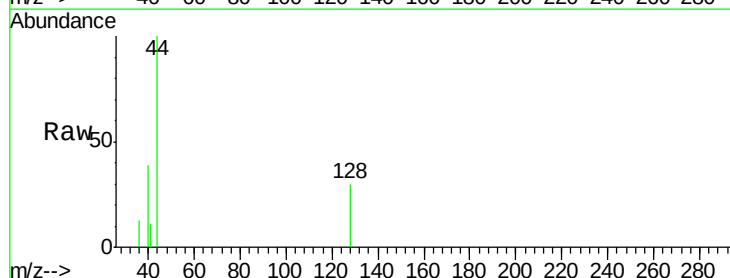
Tgt Ion: 128 Resp: 320

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024812.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024812.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024812.D (-3997) (-)

