

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062118\
 Data File : VU024810.D
 Acq On : 21 Jun 2018 14:52
 Operator : MD/SY
 Sample : J3517-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0186

Quant Time: Jun 21 15:24:23 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	193378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	294495	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	274710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	148656	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	136151	43.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.26%	
35) Dibromofluoromethane	4.89	113	115348	47.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.38%	
50) Toluene-d8	7.57	98	425183	47.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.38%	
62) 4-Bromofluorobenzene	10.31	95	157008	44.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.72%	

Target Compounds

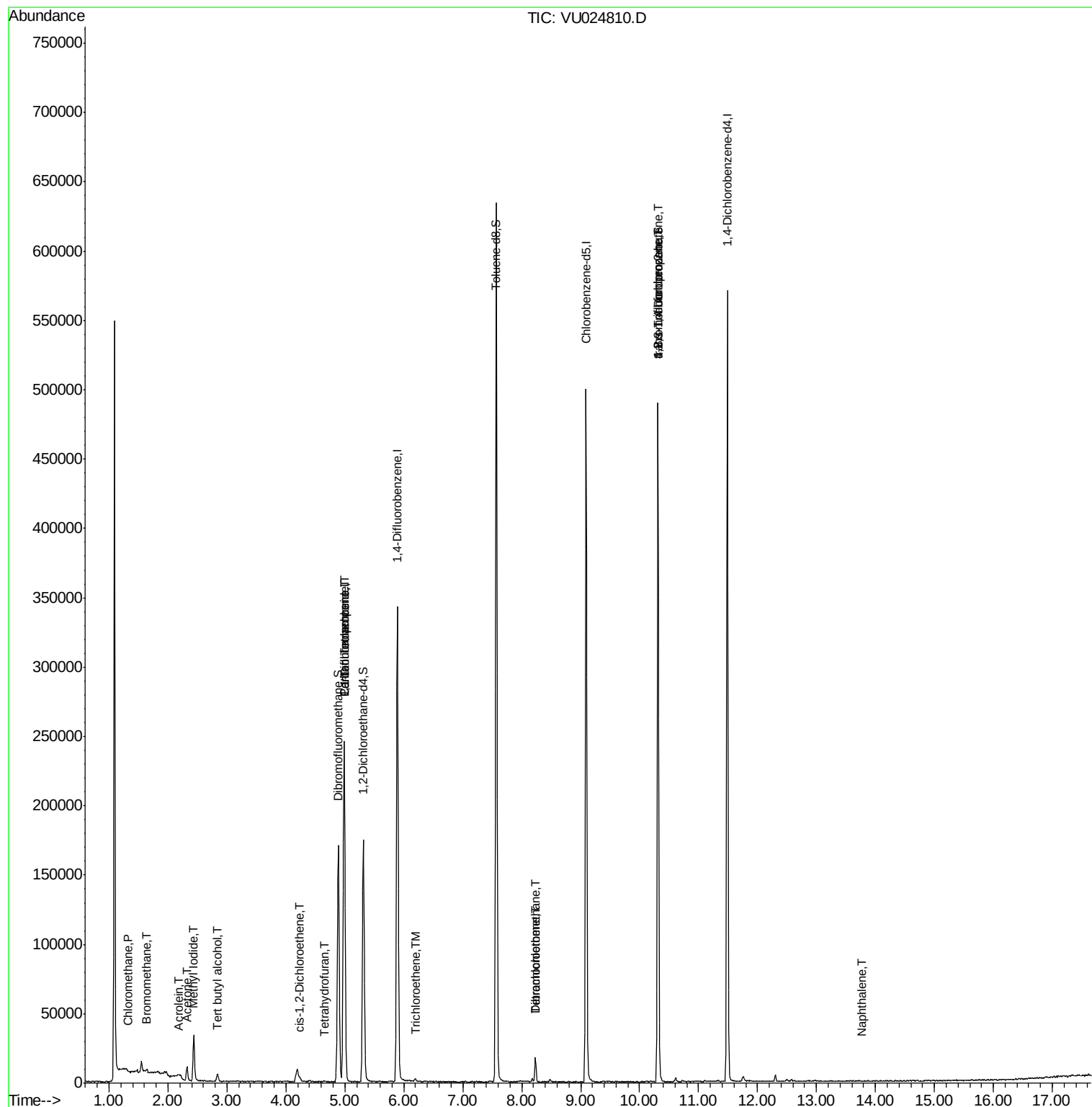
						Qvalue
3) Chloromethane	1.33	50	964	0.39	ug/l	94
5) Bromomethane	1.64	94	639	0.52	ug/l	97
6) Chloroethane	1.69	64	44	Below Cal	#	43
10) Methyl Iodide	2.42	142	140	5.35	ug/l #	40
11) Tert butyl alcohol	2.83	59	2814	3.67	ug/l #	72
13) Acrolein	2.19	56	172	0.43	ug/l #	13
16) Acetone	2.32	43	10332	6.09	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	1175	0.42	ug/l	46
29) Tetrahydrofuran	4.64	42	488	0.35	ug/l #	46
31) Cyclohexane	4.99	56	3991	Below Cal	#	12
36) 1,1-Dichloropropene	4.99	75	13744	3.97	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18035	4.74	ug/l #	16
44) Trichloroethene	6.19	130	693	0.25	ug/l	82
60) Dibromochloromethane	8.23	129	3595	1.12	ug/l #	11
64) Tetrachloroethene	8.23	164	4023	1.54	ug/l	93
76) 1,2,3-Trichloropropane	10.31	75	81894	25.02	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	81894	57.91	ug/l #	100
95) Naphthalene	13.77	128	204	0.70	ug/l #	69

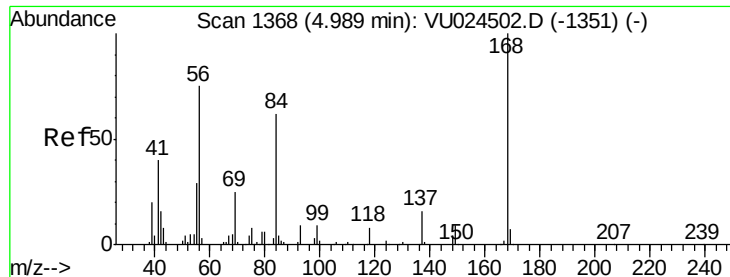
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

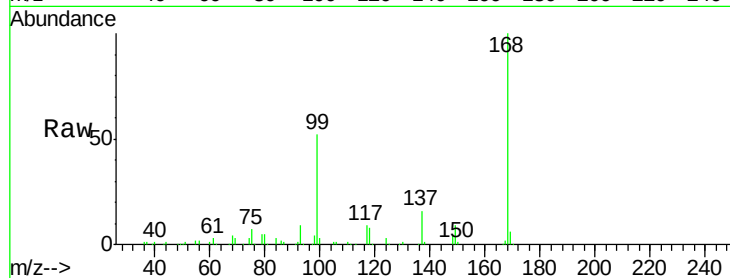
S39-0186

Tot Ion:168 Resp: 193378

Ion Ratio Lower Upper

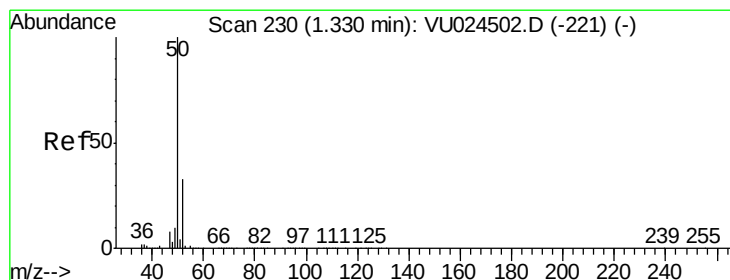
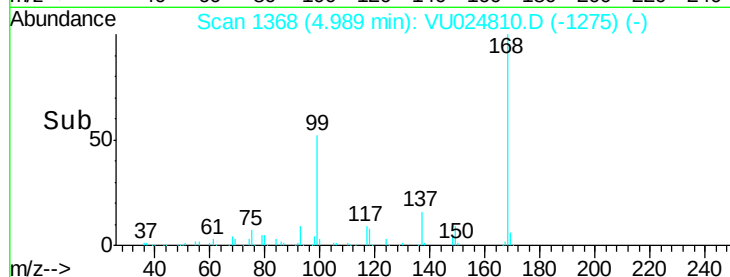
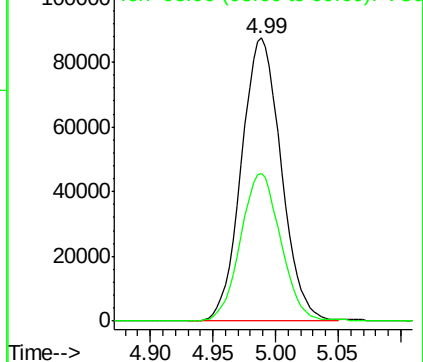
168 100

99 52.3 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024810.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024810.D (-1275) (-)



#3

Chloromethane

Concen: 0.39 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024810.D

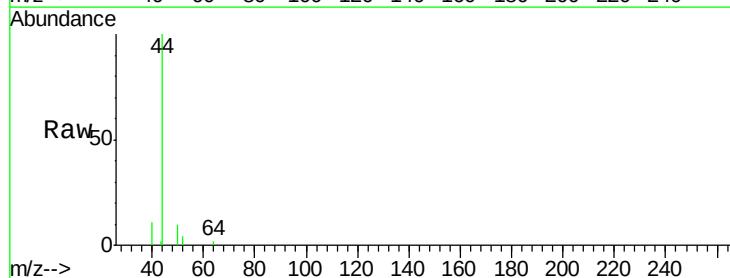
Acq: 21 Jun 2018 14:52

Tgt Ion: 50 Resp: 964

Ion Ratio Lower Upper

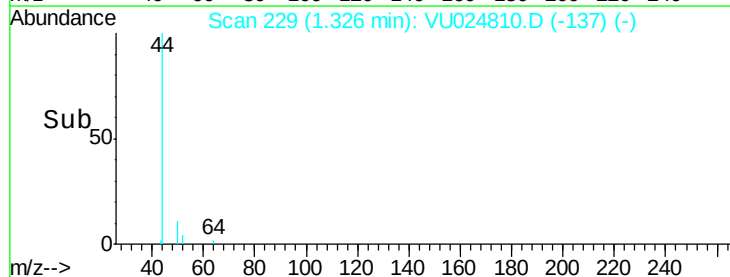
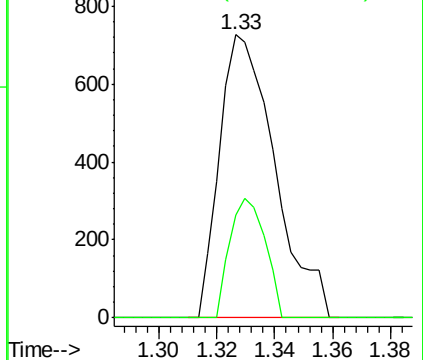
50 100

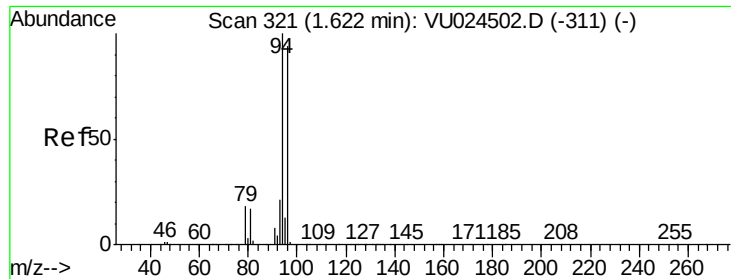
52 36.2 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024810.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024810.D (-137) (-)





#5

Bromomethane

Concen: 0.52 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

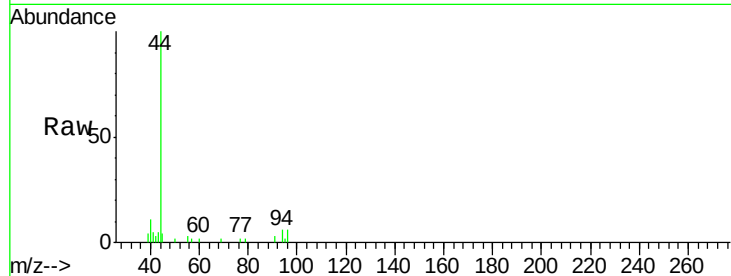
S39-0186

Tot Ion: 94 Resp: 639

Ion Ratio Lower Upper

94 100

96 89.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

400

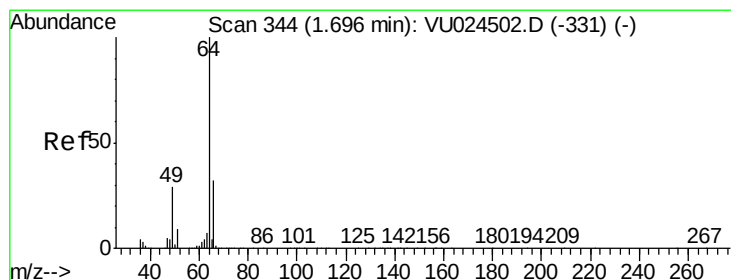
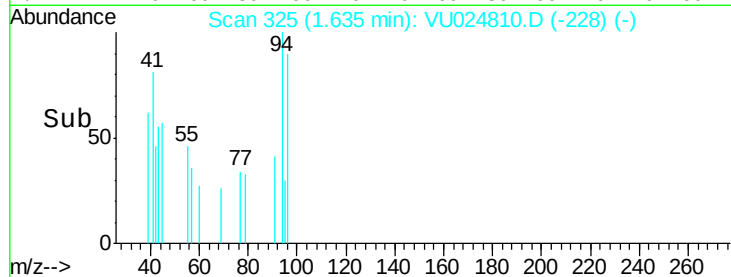
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU024810.D

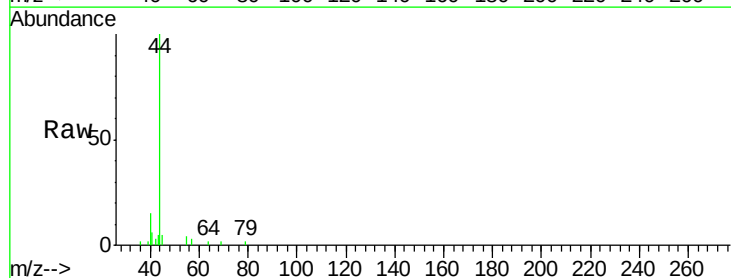
Acq: 21 Jun 2018 14:52

Tgt Ion: 64 Resp: 44

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

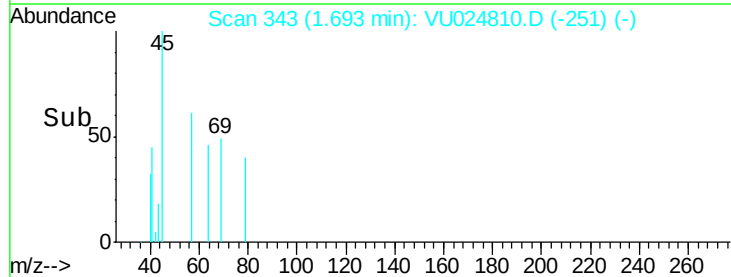
1.69

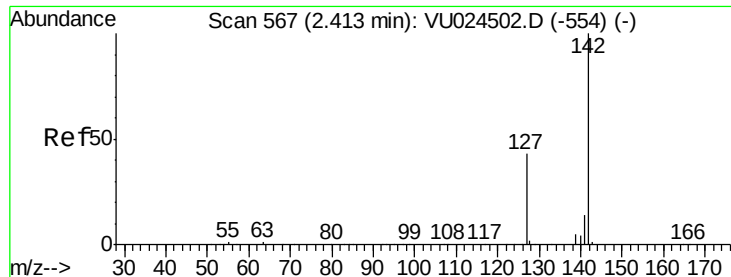
100

50

0

Time-->

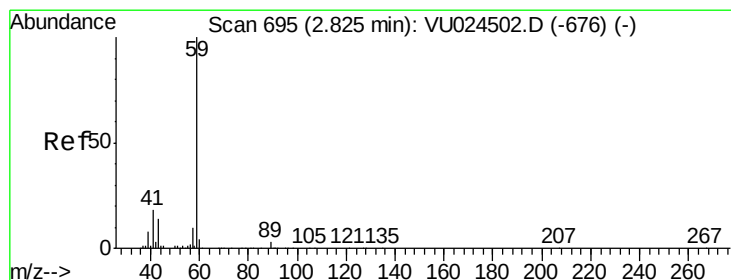
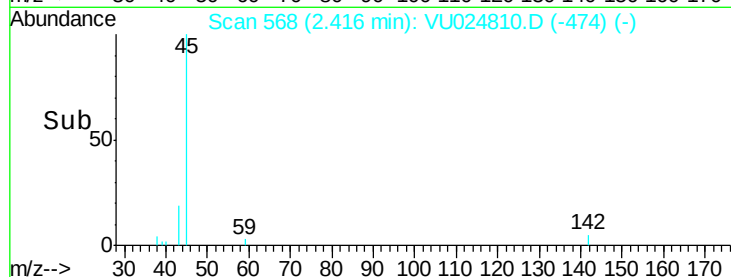
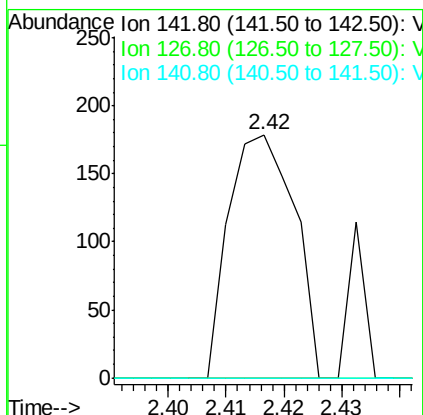
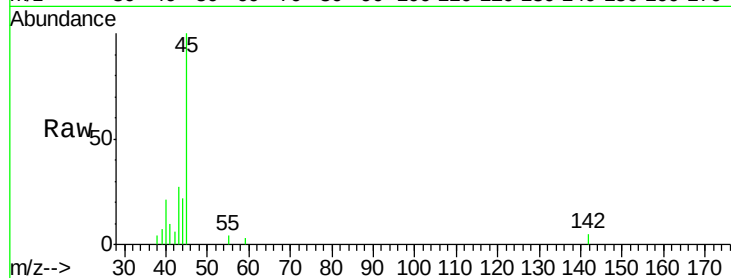




#10
Methvl Iodide
Concen: 5.35 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU024810.D
Acq: 21 Jun 2018 14:52

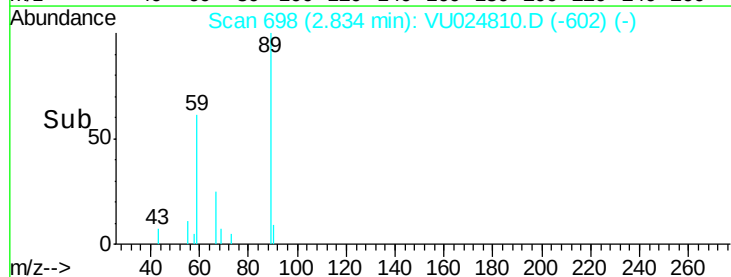
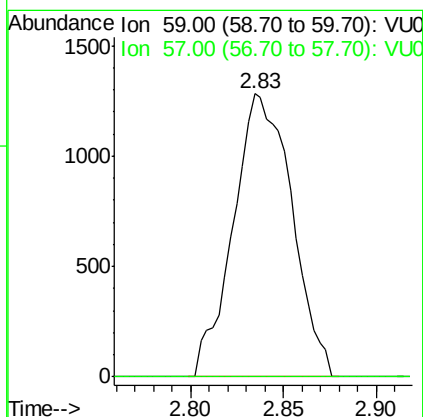
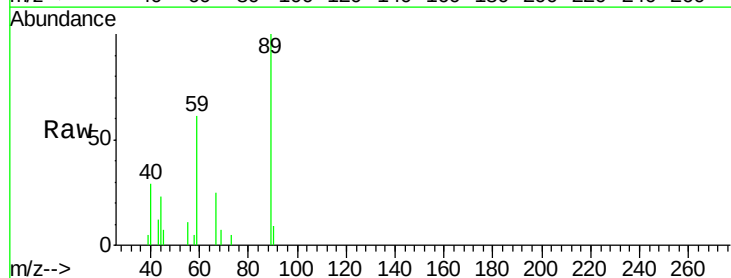
Instrument :
MSVOA_U
ClientSampleId :
S39-0186

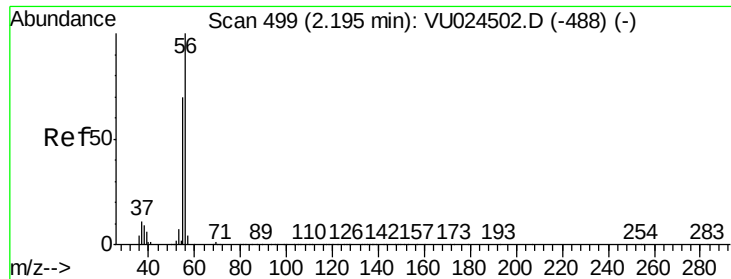
Tot Ion:142 Resp: 140
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 3.67 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU024810.D
Acq: 21 Jun 2018 14:52

Tgt Ion: 59 Resp: 2814
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.43 ug/l

RT: 2.19 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

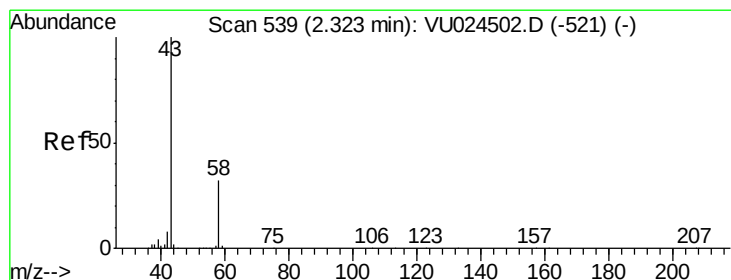
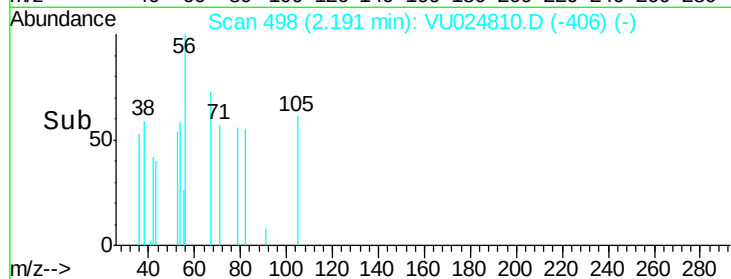
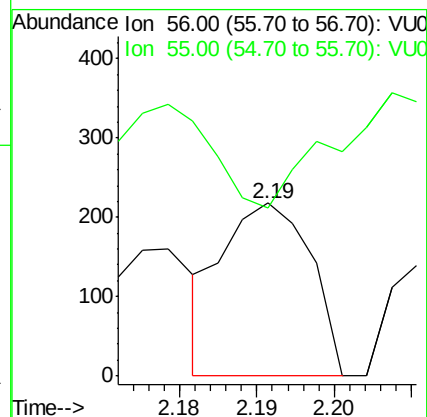
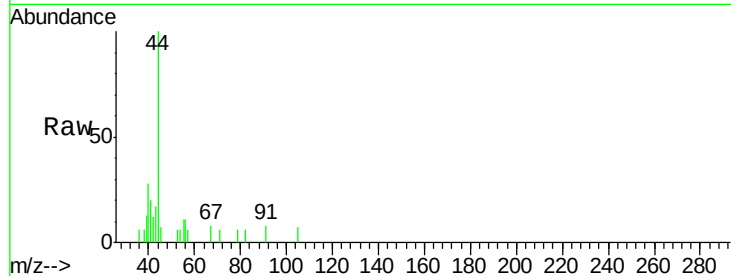
S39-0186

Tot Ion: 56 Resp: 172

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 6.09 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024810.D

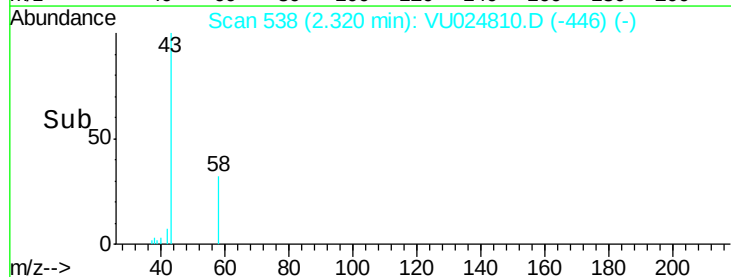
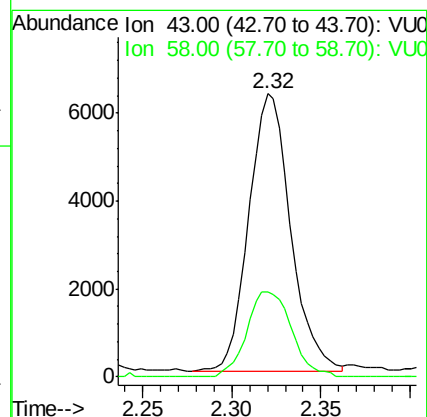
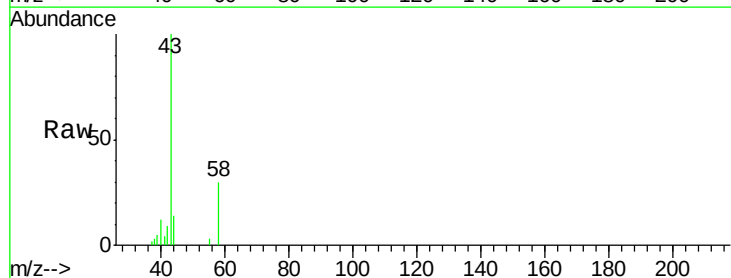
Acq: 21 Jun 2018 14:52

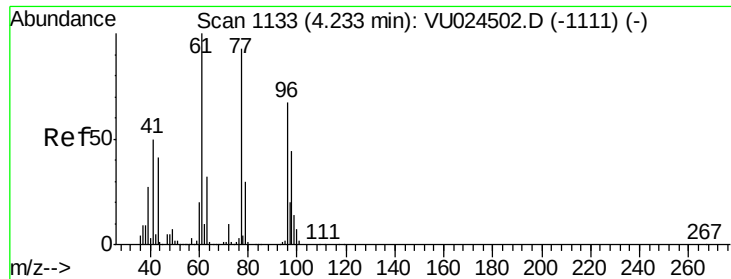
Tgt Ion: 43 Resp: 10332

Ion Ratio Lower Upper

43 100

58 30.9 24.4 36.6





#27

cis-1,2-Dichloroethene

Concen: 0.42 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

S39-0186

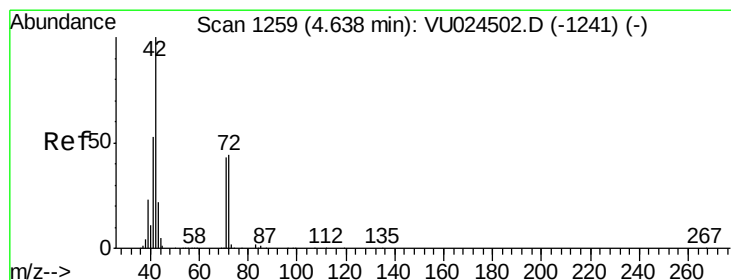
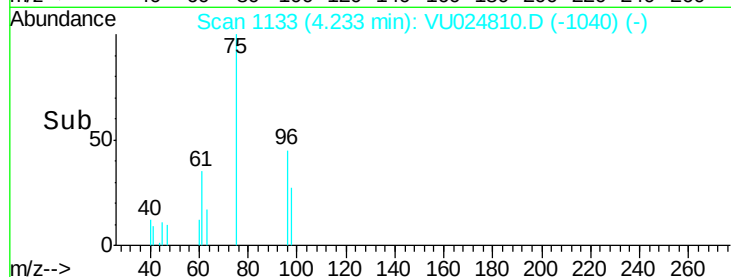
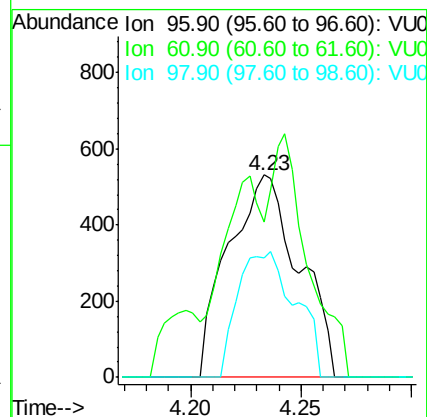
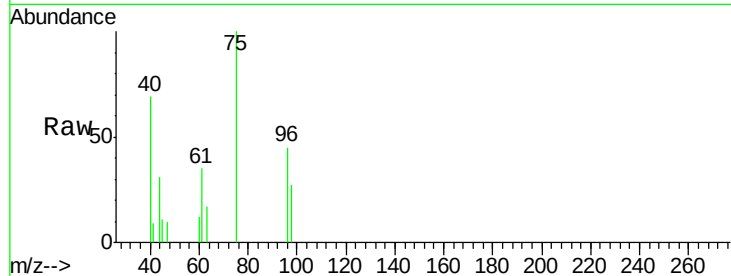
Tot Ion: 96 Resp: 1175

Ion Ratio Lower Upper

96 100

61 63.5 0.0 306.6

98 50.6 0.0 128.8



#29

Tetrahydrofuran

Concen: 0.35 ug/l

RT: 4.64 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

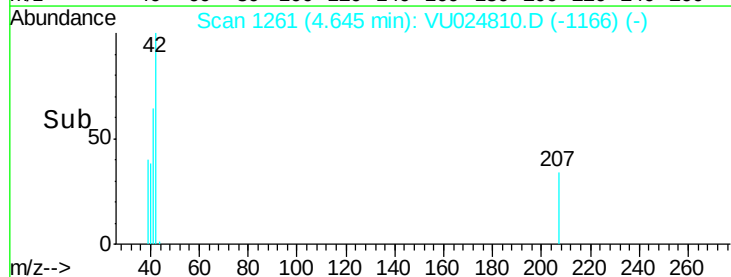
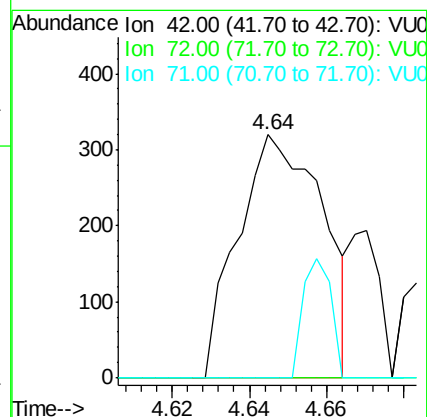
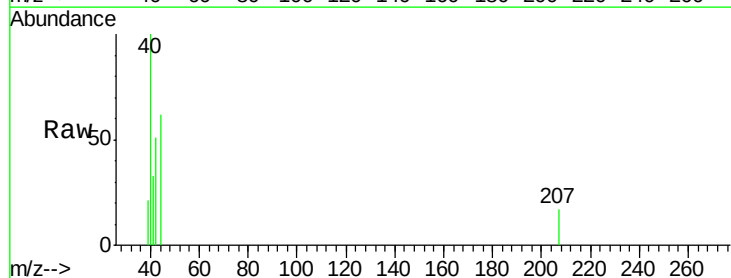
Tgt Ion: 42 Resp: 488

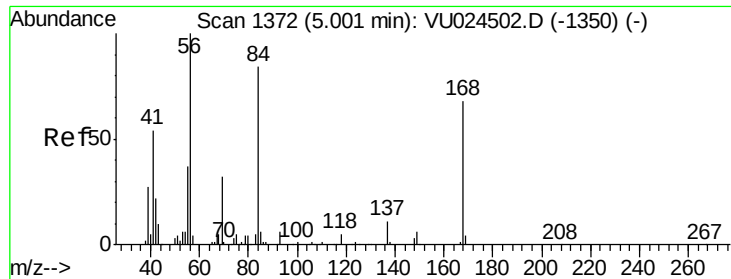
Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

71 16.2 32.2 48.4#

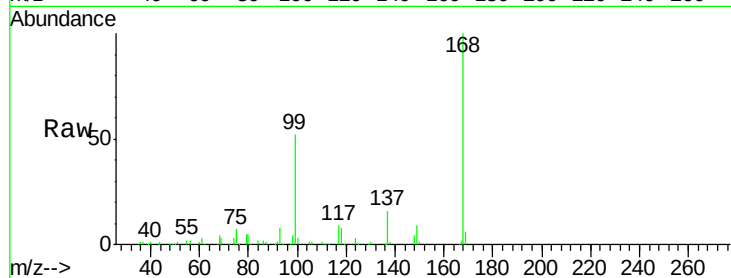




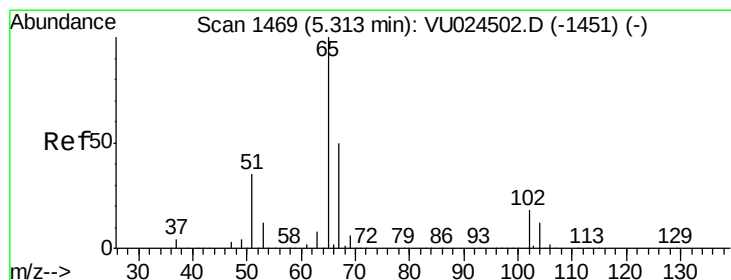
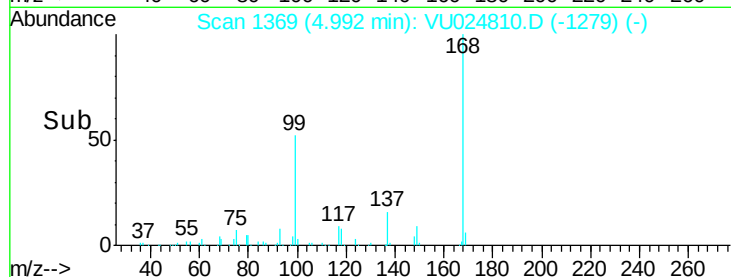
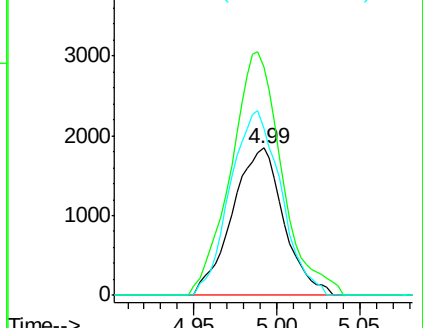
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VU024810.D
Acq: 21 Jun 2018 14:52

Instrument :
MSVOA_U
ClientSampleId :
S39-0186

Tot Ion: 56 Resp: 3991
Ion Ratio Lower Upper
56 100
69 155.1 24.8 37.2#
84 112.9 65.2 97.8#

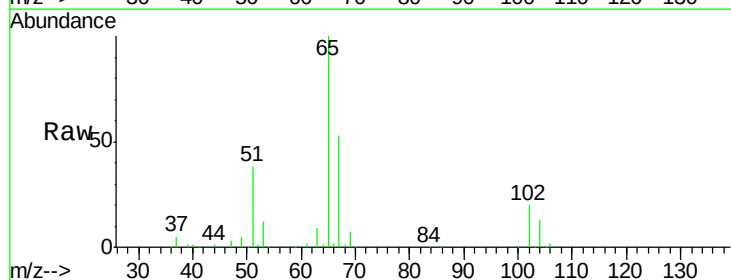


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

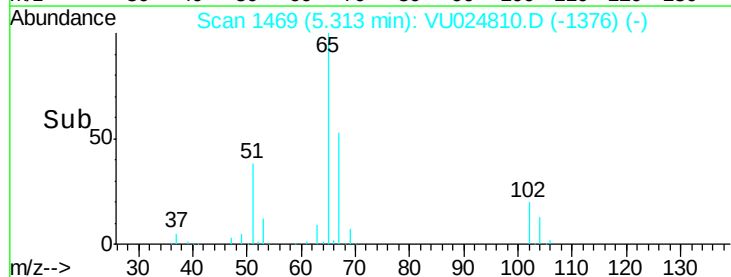
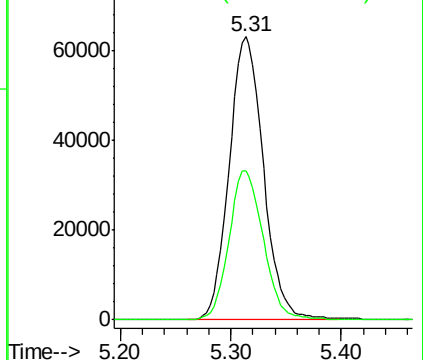


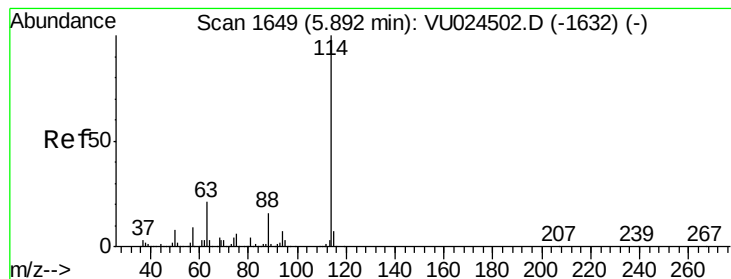
#33
1,2-Dichloroethane-d4
Concen: 43.13 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU024810.D
Acq: 21 Jun 2018 14:52

Tgt Ion: 65 Resp: 136151
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

S39-0186

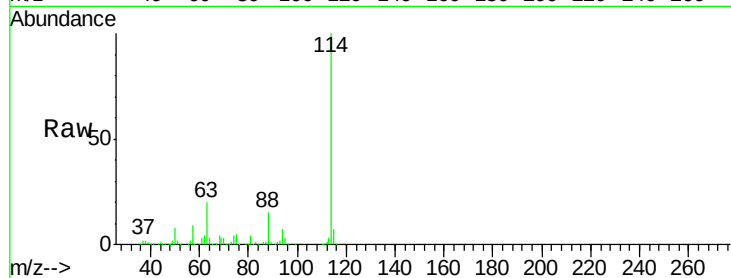
Tot Ion:114 Resp: 294495

Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.4

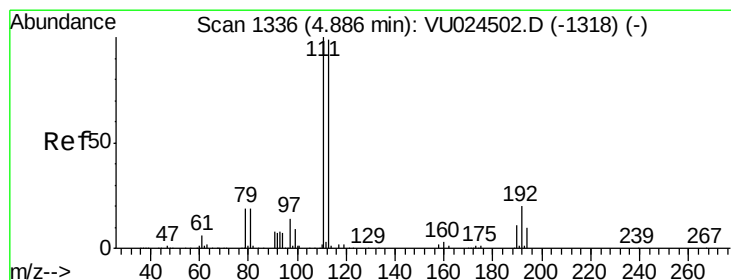
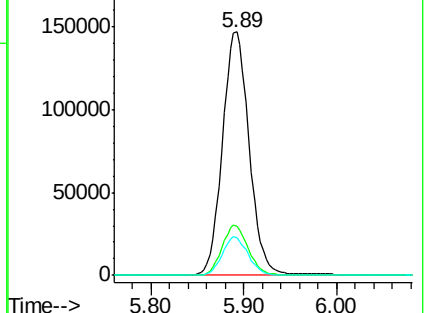
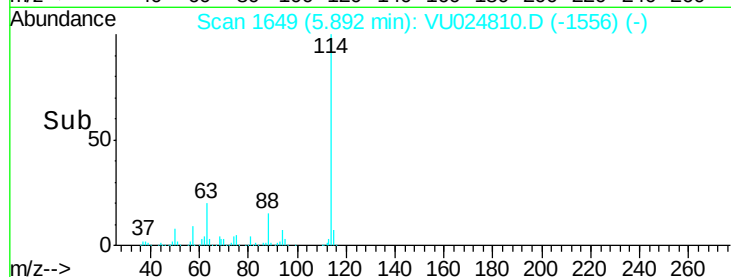
88 15.3 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.19 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

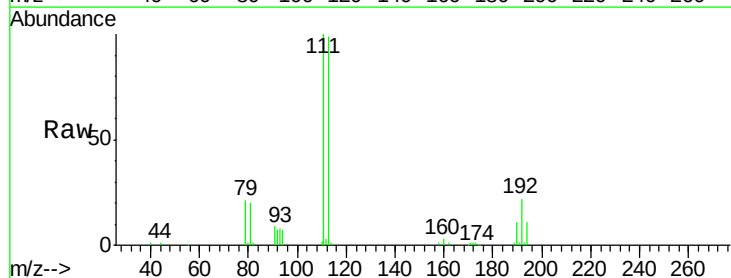
Tgt Ion:113 Resp: 115348

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

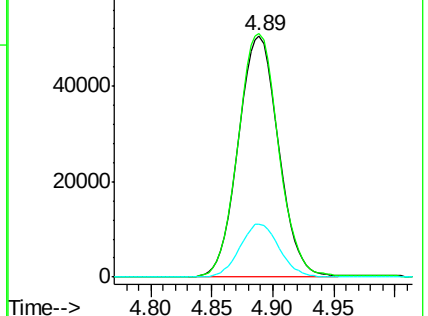
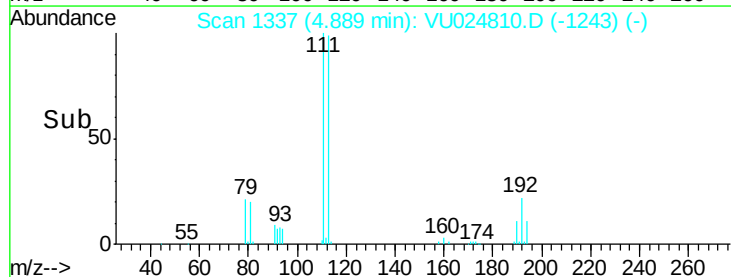
192 21.5 16.2 24.4

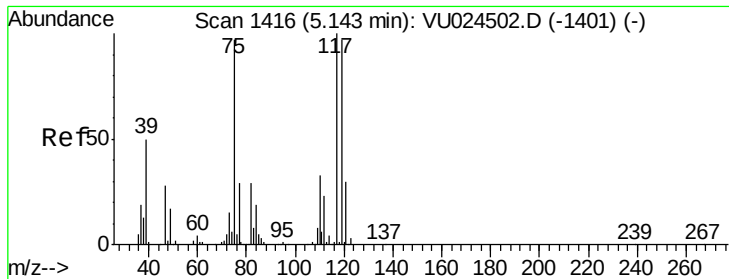


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

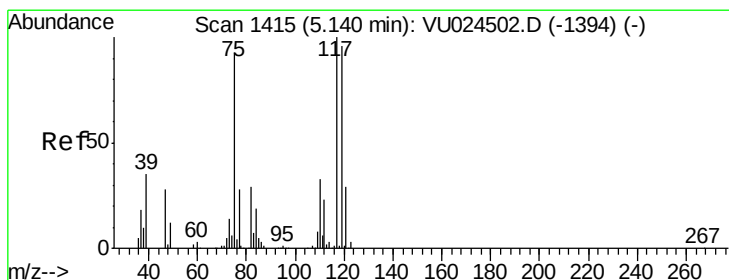
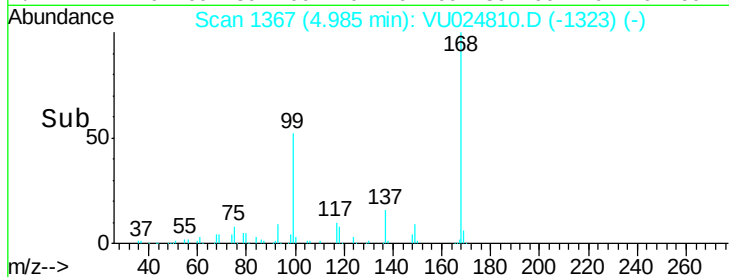
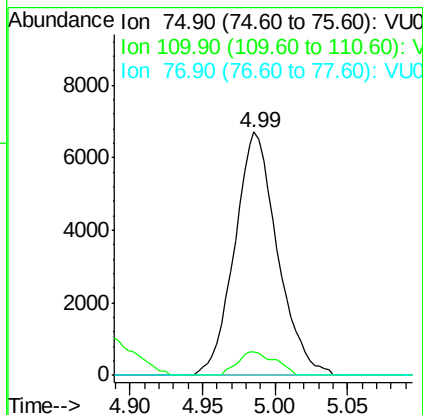
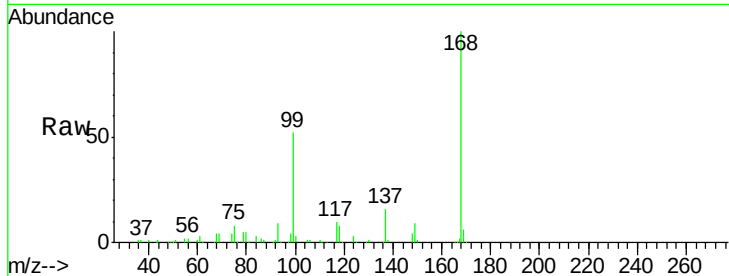




#36
 1,1-Dichloropropene
 Concen: 3.97 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024810.D
 Acq: 21 Jun 2018 14:52

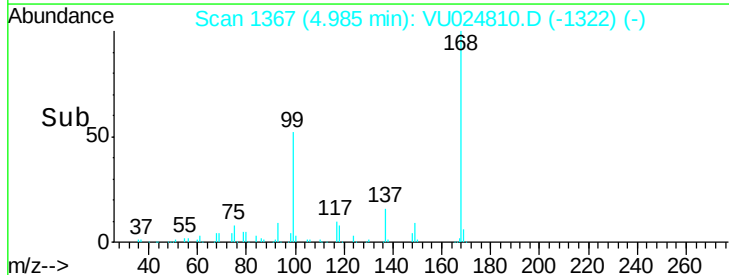
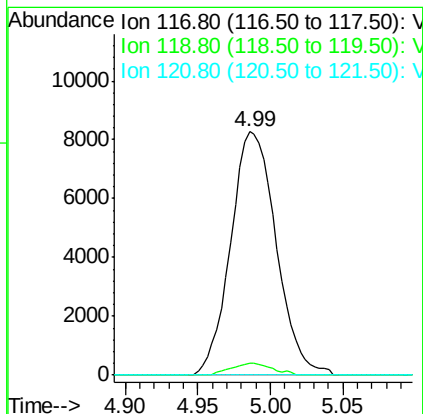
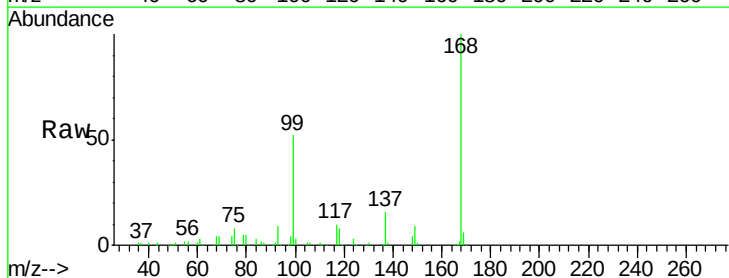
Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0186

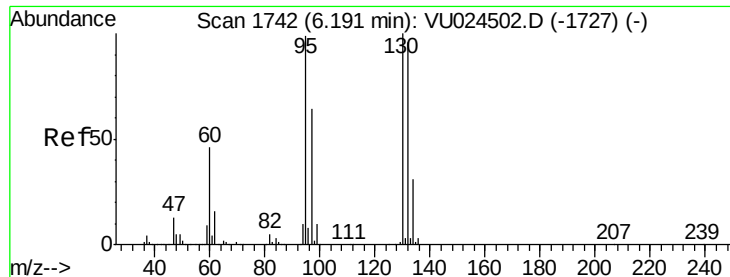
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.74 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU024810.D
 Acq: 21 Jun 2018 14:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.1	114.1#
121	0.0	23.7	35.5#





#44

Trichloroethene

Concen: 0.25 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

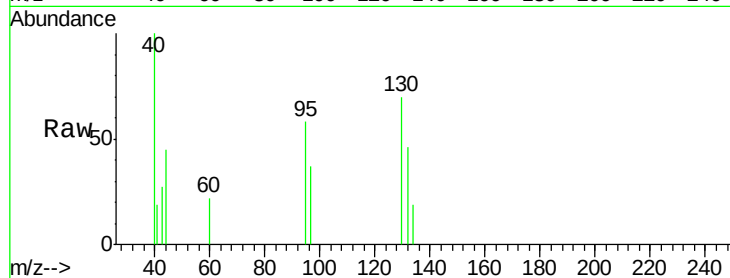
S39-0186

Tot Ion:130 Resp: 693

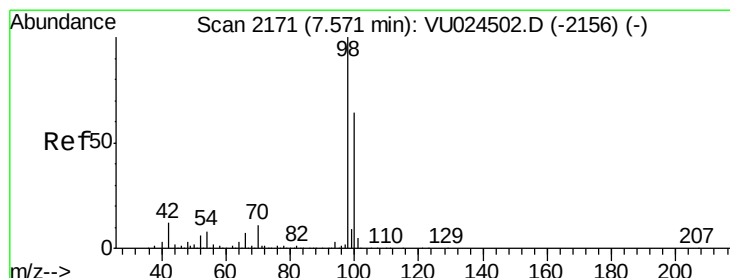
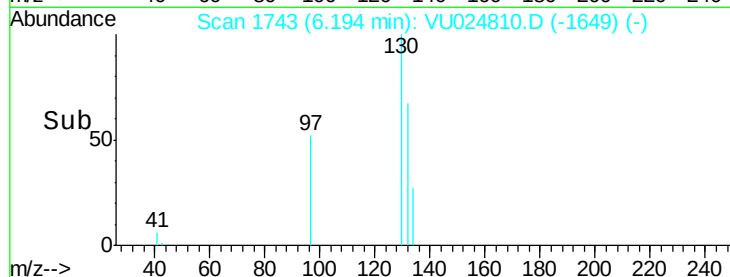
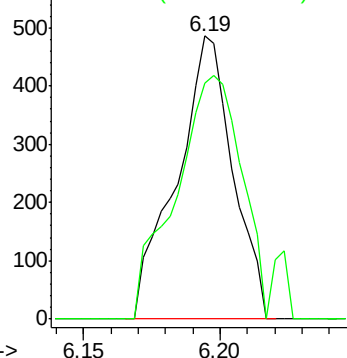
Ion Ratio Lower Upper

130 100

95 83.3 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024810.D (-1649) (-)



#50

Toluene-d8

Concen: 47.69 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024810.D

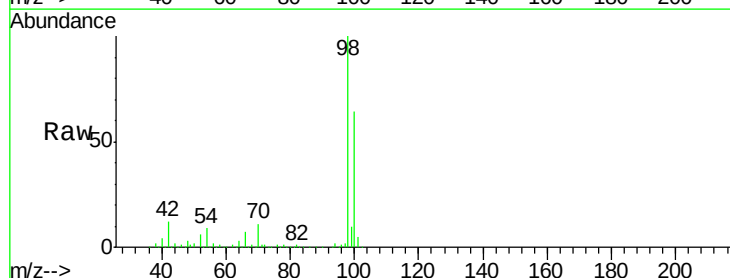
Acq: 21 Jun 2018 14:52

Tgt Ion: 98 Resp: 425183

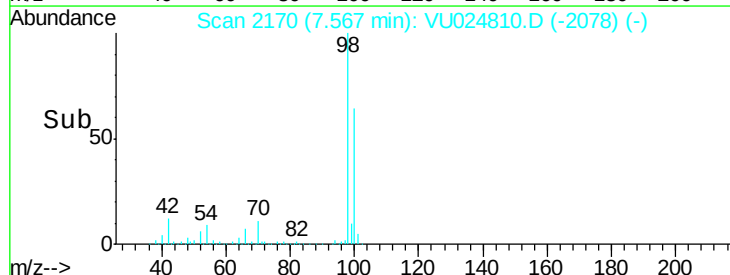
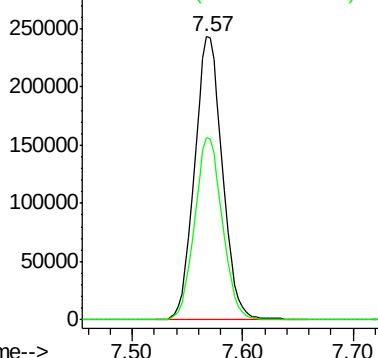
Ion Ratio Lower Upper

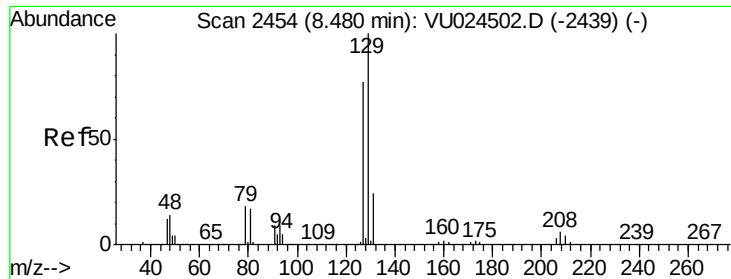
98 100

100 64.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024810.D (-2078) (-)





#60

Dibromochloromethane

Concen: 1.12 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

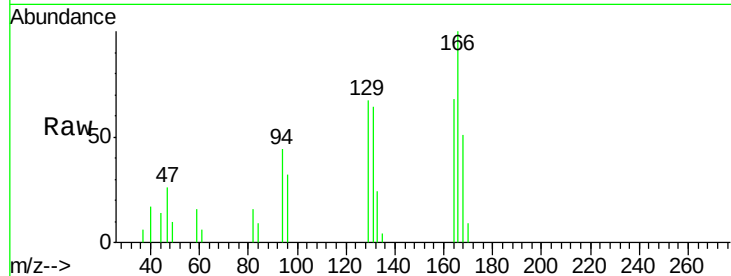
S39-0186

Tot Ion:129 Resp: 3595

Ion Ratio Lower Upper

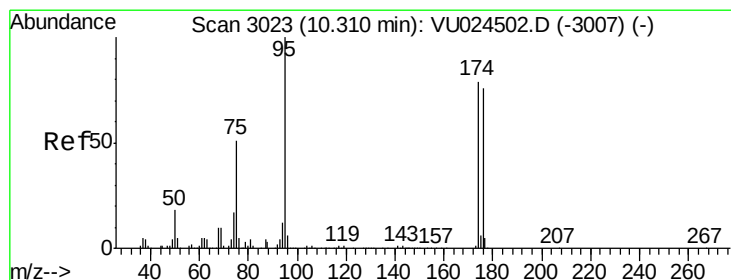
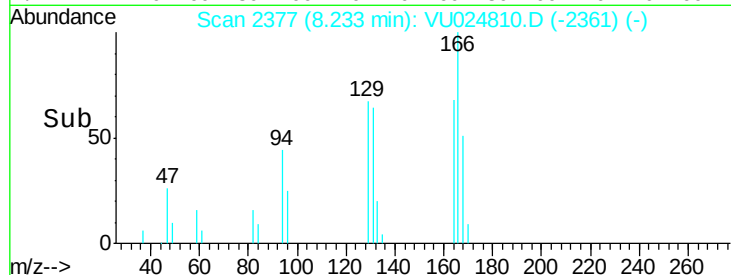
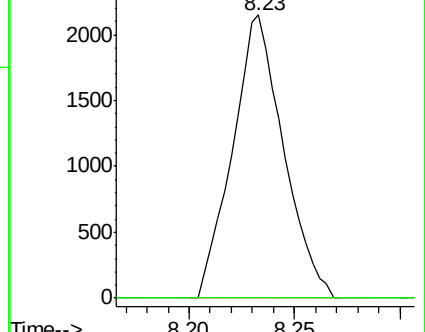
129 100

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: 44.36 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

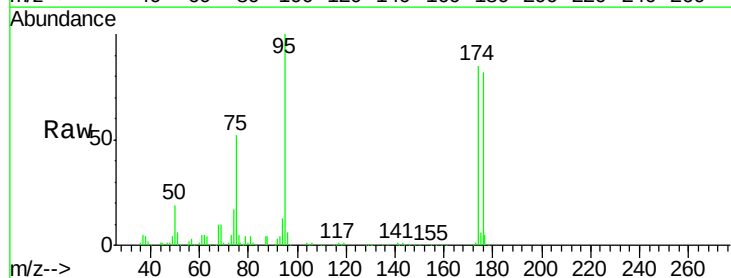
Tgt Ion: 95 Resp: 157008

Ion Ratio Lower Upper

95 100

174 86.1 0.0 165.8

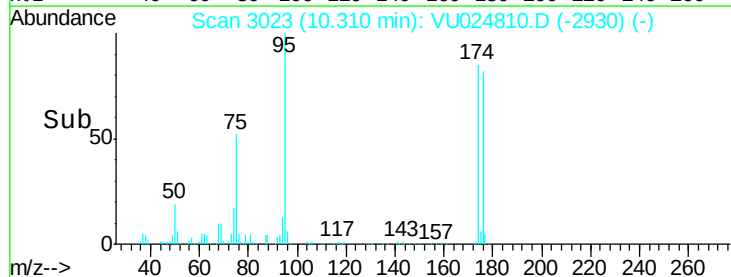
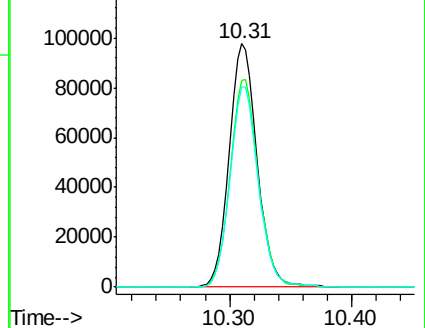
176 83.3 0.0 159.4

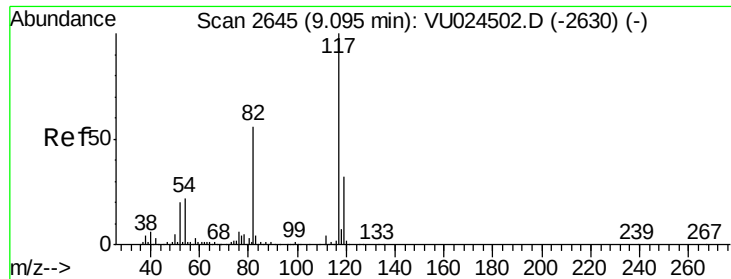


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

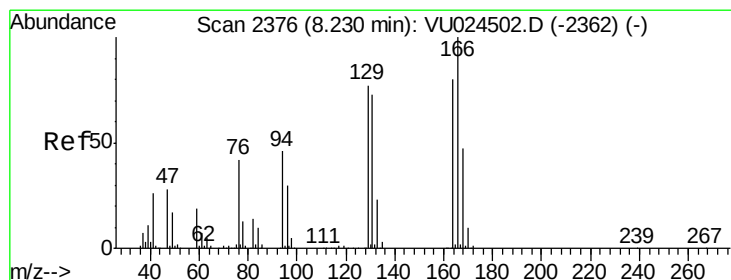
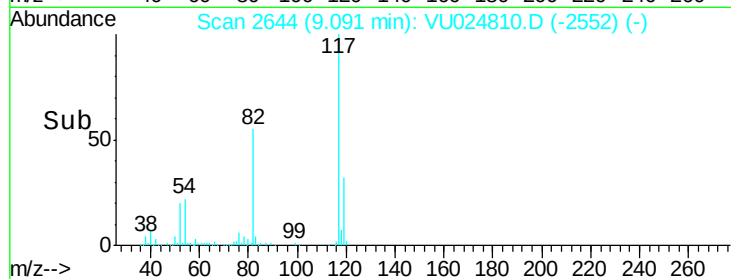
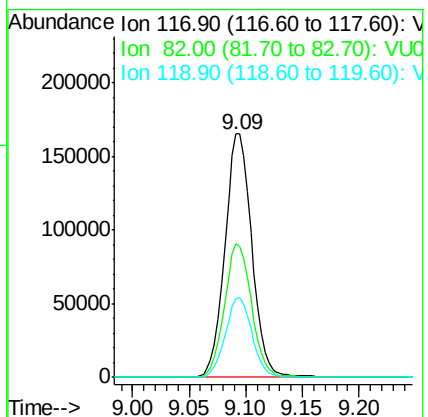
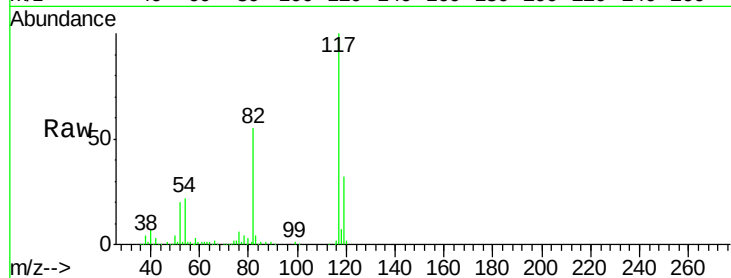




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024810.D
Acq: 21 Jun 2018 14:52

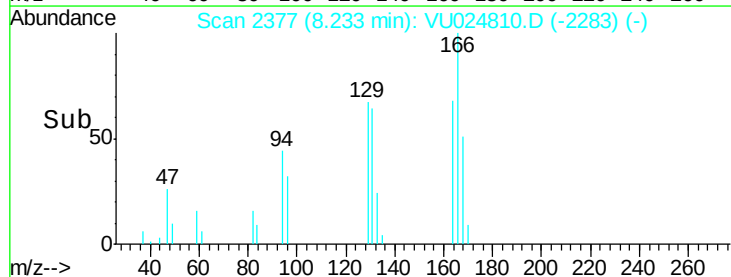
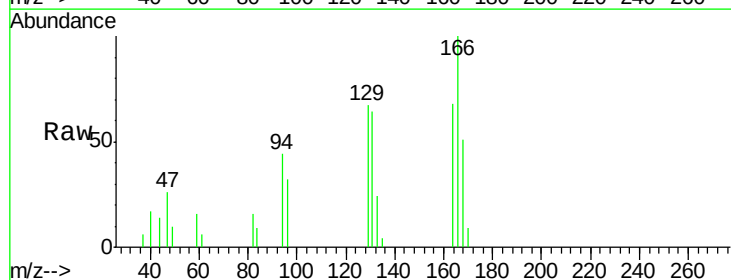
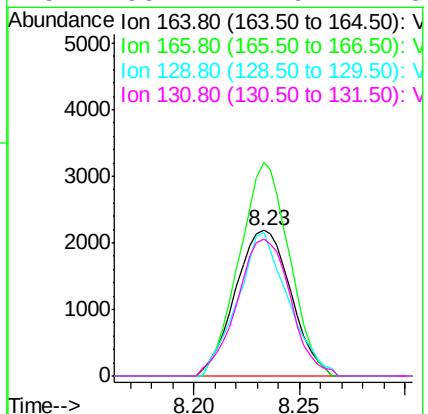
Instrument :
MSVOA_U
ClientSampled :
S39-0186

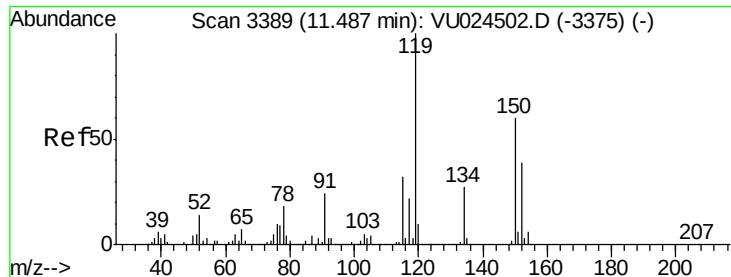
Tot Ion:117 Resp: 274710
Ion Ratio Lower Upper
117 100
82 54.6 44.3 66.5
119 32.3 25.4 38.2



#64
Tetrachloroethene
Concen: 1.54 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU024810.D
Acq: 21 Jun 2018 14:52

Tgt Ion:164 Resp: 4023
Ion Ratio Lower Upper
164 100
166 146.6 101.7 152.5
129 98.1 76.9 115.3
131 93.7 74.9 112.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

S39-0186

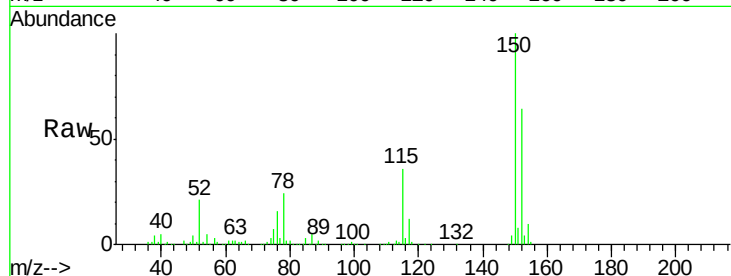
Tot Ion:152 Resp: 148656

Ion Ratio Lower Upper

152 100

115 55.9 43.0 129.0

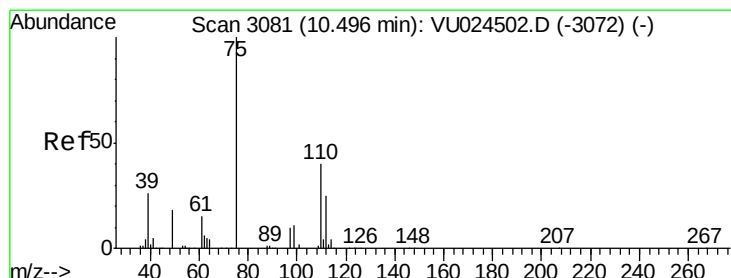
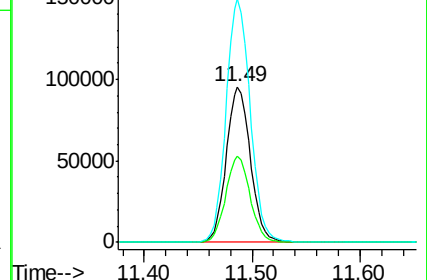
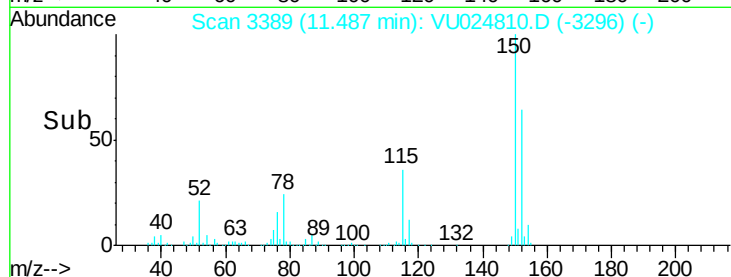
150 156.7 0.0 354.0



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: 25.02 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024810.D

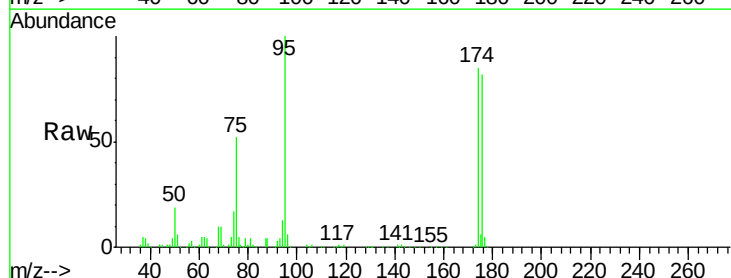
Acq: 21 Jun 2018 14:52

Tgt Ion: 75 Resp: 81894

Ion Ratio Lower Upper

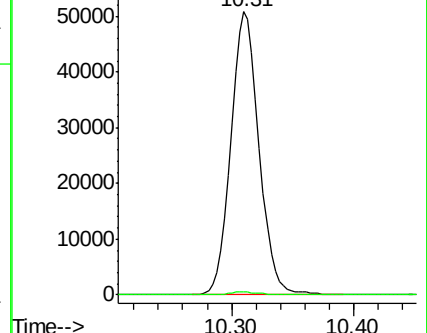
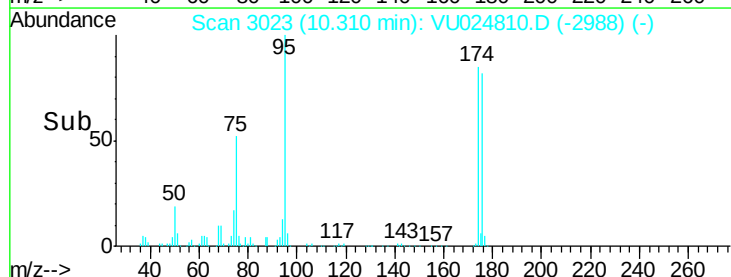
75 100

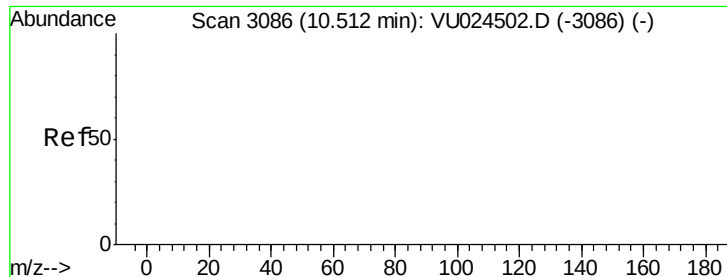
77 1.1 20.9 62.7#



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: 57.91 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

Instrument :

MSVOA_U

ClientSampleId :

S39-0186

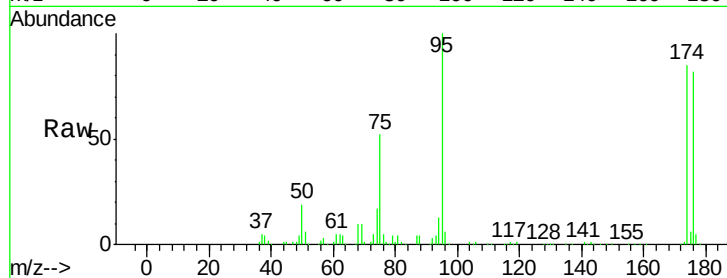
Tot Ion: 75 Resp: 81894

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

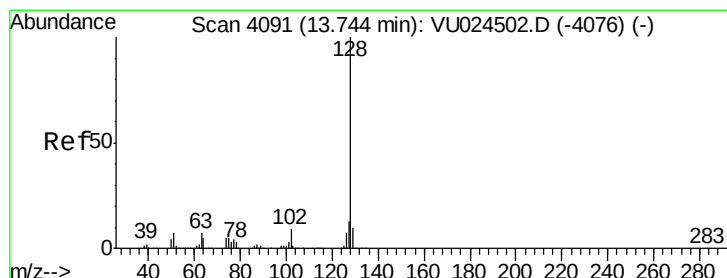
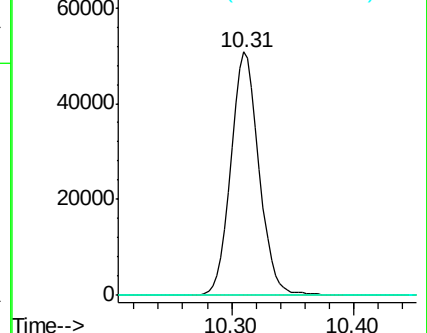
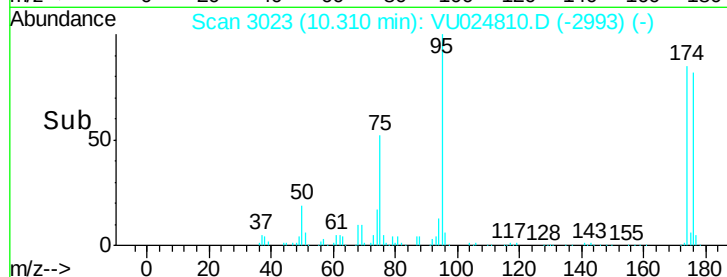
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024810.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024810.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024810.D (-2993) (-)



#95

Naphthalene

Concen: 0.70 ug/l

RT: 13.77 min Scan# 4098

Delta R.T. 0.02 min

Lab File: VU024810.D

Acq: 21 Jun 2018 14:52

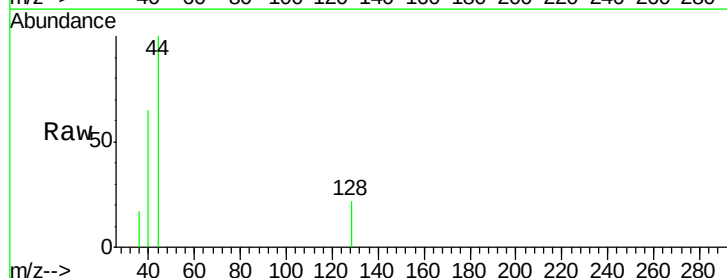
Tgt Ion: 128 Resp: 204

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): VU024810.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024810.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024810.D (-3997) (-)

