

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025167.D
 Acq On : 03 Jul 2018 02:12
 Operator : MD/SY
 Sample : J3809-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CARBON-2-062818

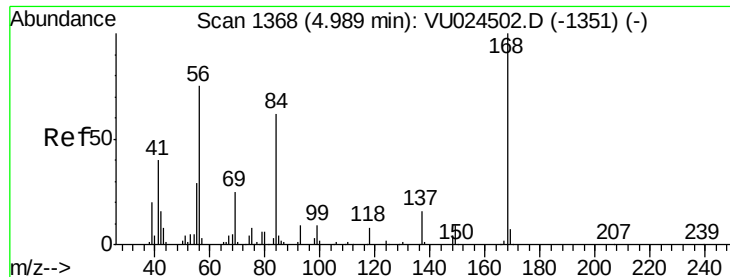
Quant Time: Jul 03 03:05:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	200162	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	303266	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	272947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	143646	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	152663	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
35) Dibromofluoromethane	4.89	113	118271	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	7.57	98	430317	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	
62) 4-Bromofluorobenzene	10.31	95	156913	43.05	ug/l	0.00
Spiked Amount			Recovery	=	86.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	279	0.219	ug/l	85
6) Chloroethane	1.67	64	44	Below Cal	#	43
10) Methyl Iodide	2.41	142	20	5.297	ug/l #	40
13) Acrolein	2.18	56	168	0.403	ug/l #	60
16) Acetone	2.32	43	1848	1.053	ug/l	93
18) Methyl Acetate	2.63	43	1202	0.319	ug/l #	60
25) 2-Butanone	4.28	43	1107	0.469	ug/l #	87
29) Tetrahydrofuran	4.64	42	55005	37.663	ug/l	98
31) Cyclohexane	4.99	56	4192	Below Cal	#	7
36) 1,1-Dichloropropene	4.98	75	15236	4.275	ug/l #	51
37) Ethyl Acetate	4.28	43	1107	0.285	ug/l #	70
38) Carbon Tetrachloride	4.99	117	19664	5.018	ug/l #	16
41) Methacrylonitrile	4.64	41	32004	15.283	ug/l #	47
43) Isopropyl Acetate	5.81	43	6996	1.042	ug/l #	62
76) 1,2,3-Trichloropropane	10.31	75	80757	25.535	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	80757	59.099	ug/l #	100
95) Naphthalene	13.78	128	229	0.701	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

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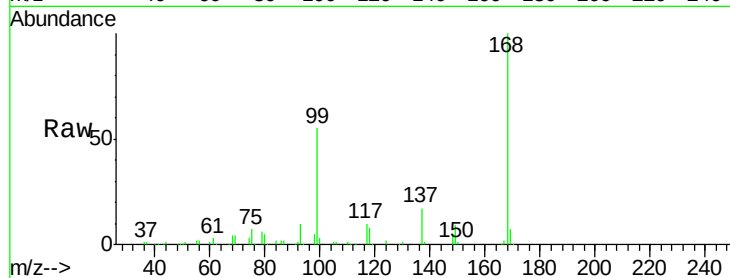
Instrument :
MSVOA_U
ClientSampleId :
CARBON-2-062818

Tot Ion:168 Resp: 200162

Ion Ratio Lower Upper

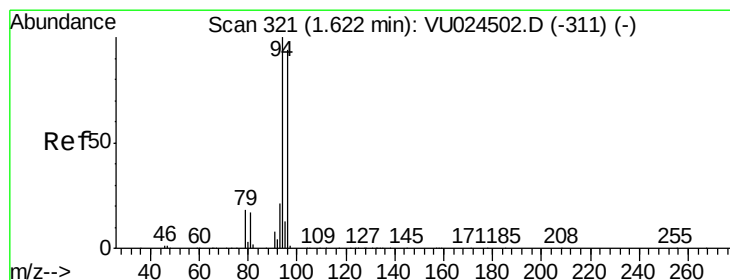
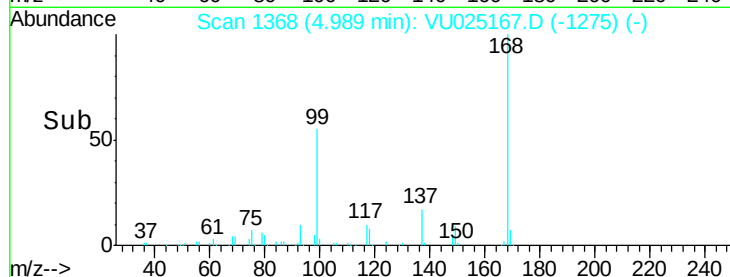
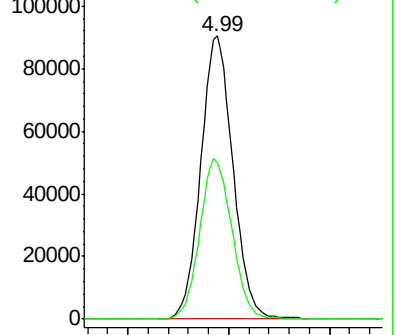
168 100

99 55.5 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#5

Bromomethane

Concen: 0.219 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025167.D

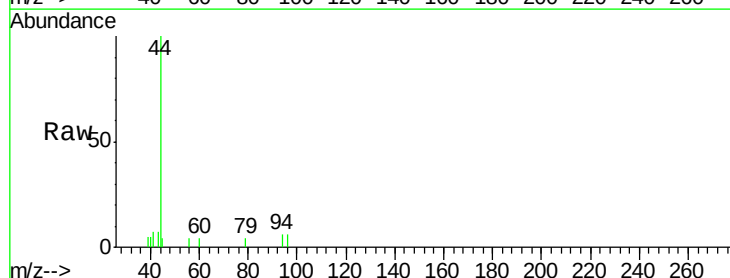
Acq: 03 Jul 2018 02:12

Tgt Ion: 94 Resp: 279

Ion Ratio Lower Upper

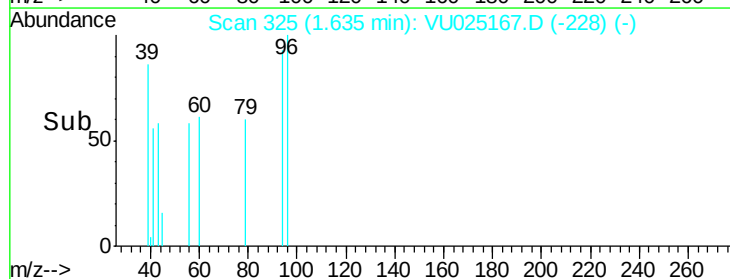
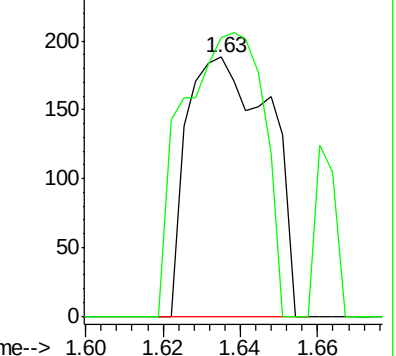
94 100

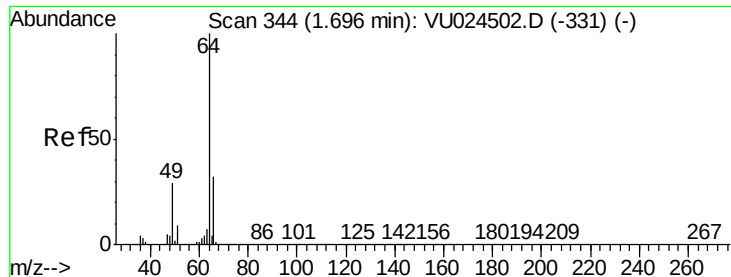
96 107.4 74.5 111.7



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: 1.67 min Scan# 337

Delta R.T. -0.02 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

Instrument :

MSVOA_U

ClientSampleId :

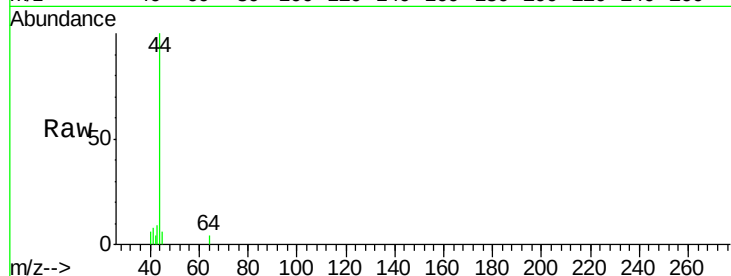
CARBON-2-062818

Tot Ion: 64 Resp: 44

Ion Ratio Lower Upper

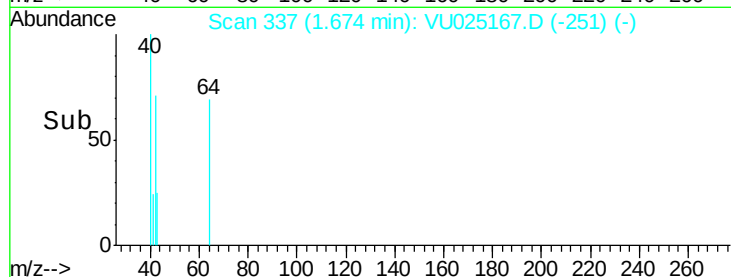
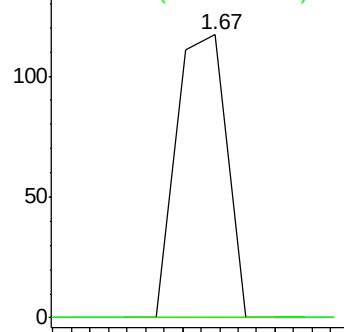
64 100

66 0.0 25.5 38.3#

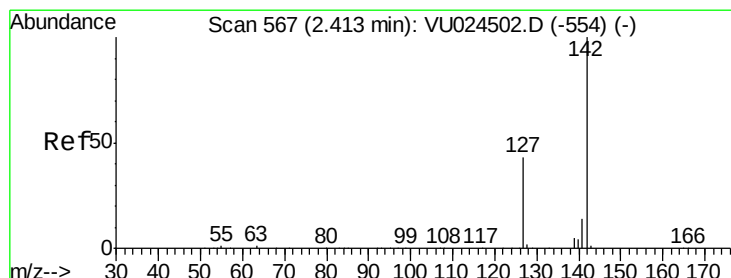


Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time-->



#10

Methyl Iodide

Concen: 5.297 ug/l

RT: 2.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

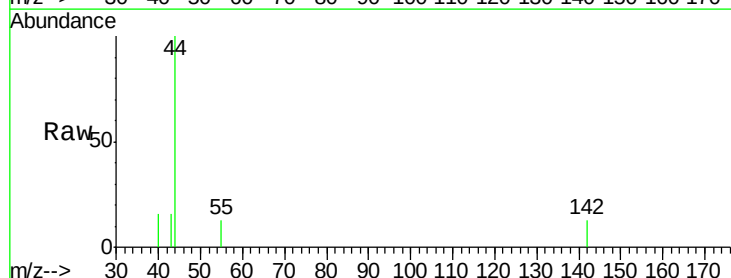
Tgt Ion: 142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

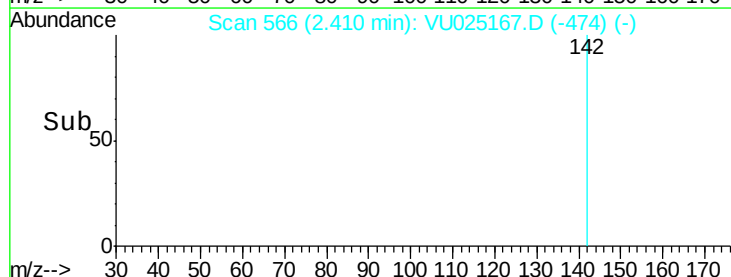
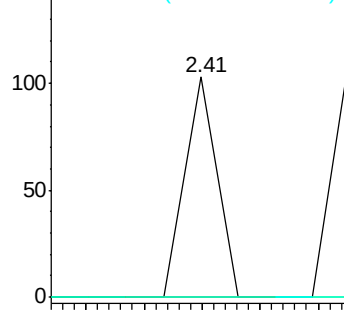
141 0.0 11.7 17.5#



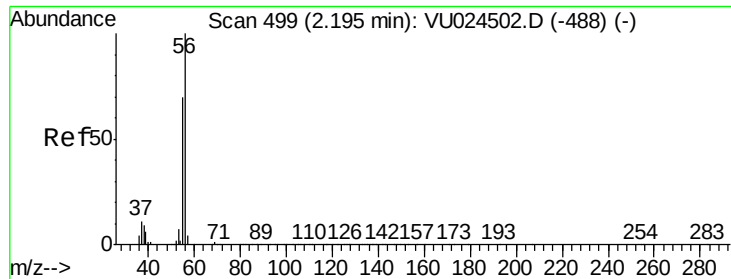
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



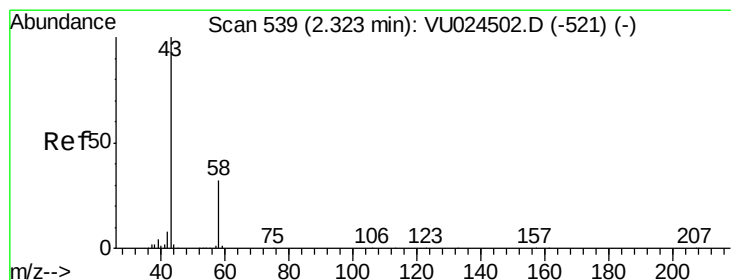
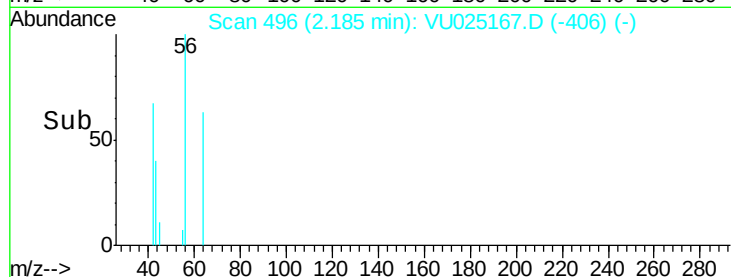
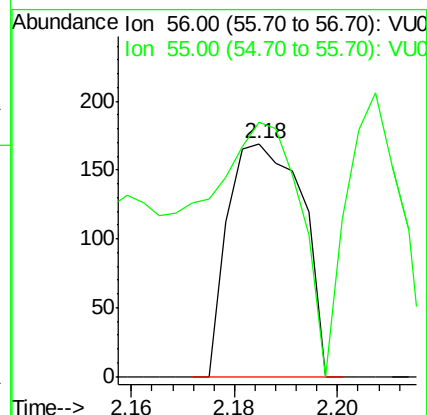
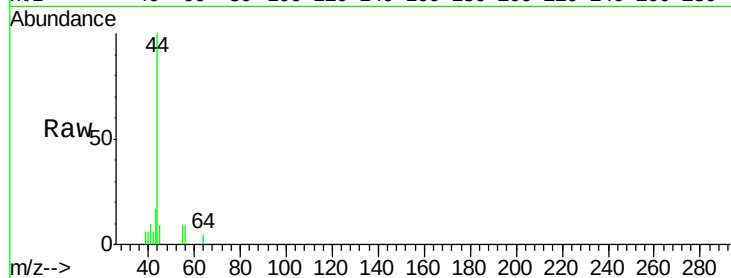
Time-->



#13
Acrolein
Concen: 0.403 ug/l
RT: 2.18 min Scan# 496
Delta R.T. -0.01 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

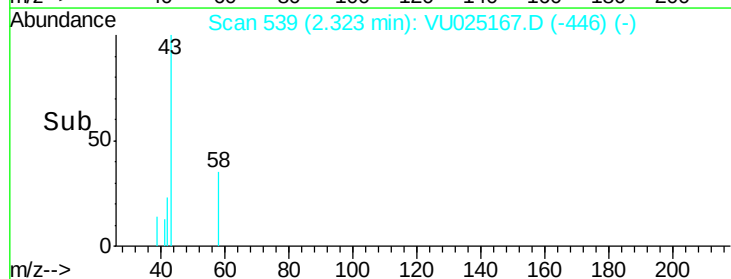
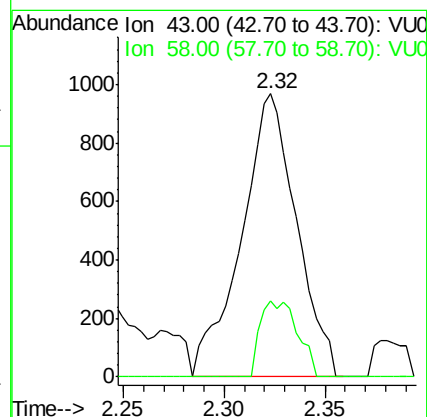
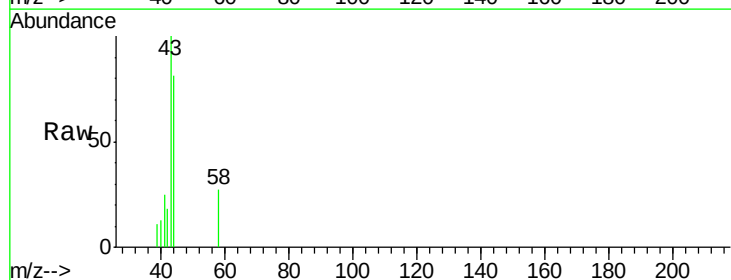
Instrument :
MSVOA_U
ClientSampleId :
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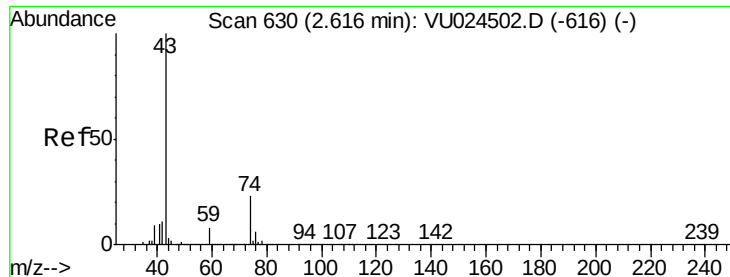
Tot Ion: 56 Resp: 168
Ion Ratio Lower Upper
56 100
55 106.5 58.4 87.6#



#16
Acetone
Concen: 1.053 ug/l
RT: 2.32 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

Tgt Ion: 43 Resp: 1848
Ion Ratio Lower Upper
43 100
58 26.9 24.4 36.6

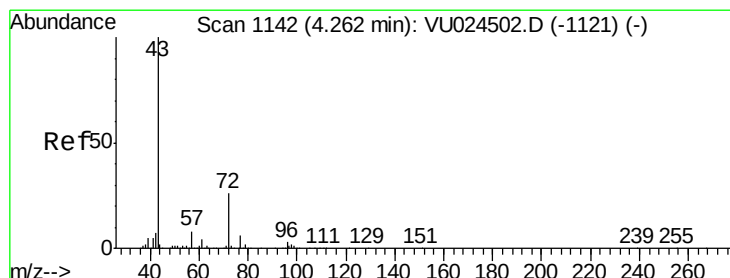
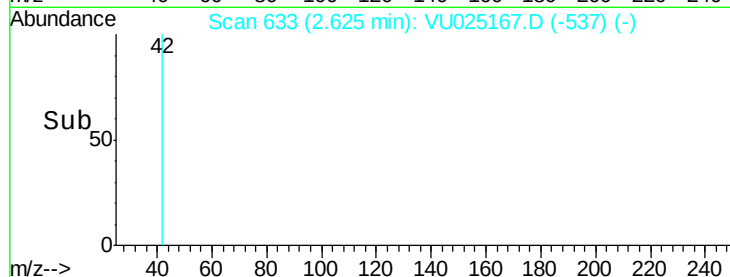
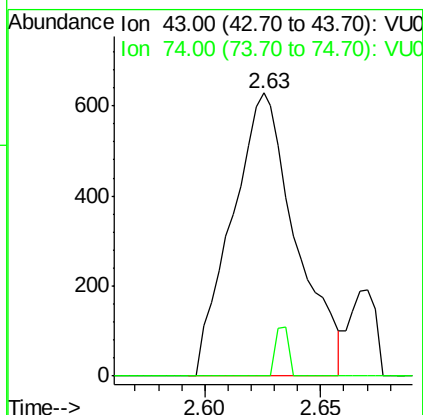
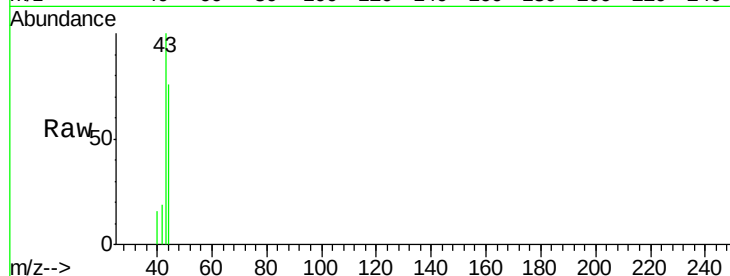




#18
Methvl Acetate
Concen: 0.319 ug/l
RT: 2.63 min Scan# 633
Delta R.T. 0.01 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

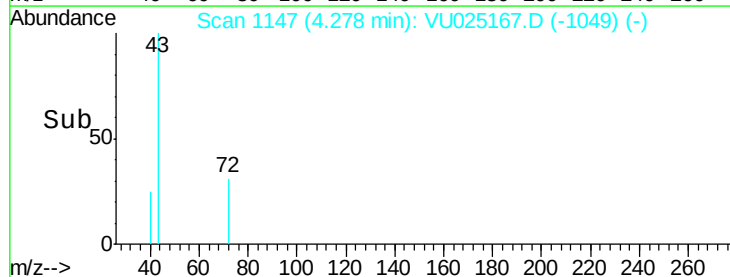
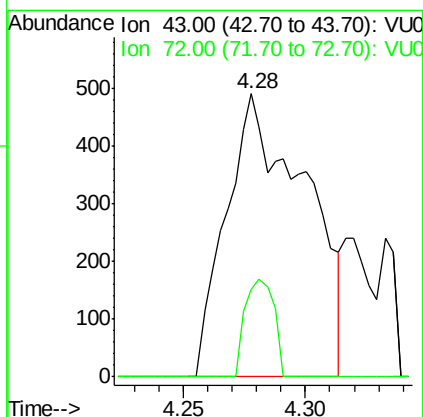
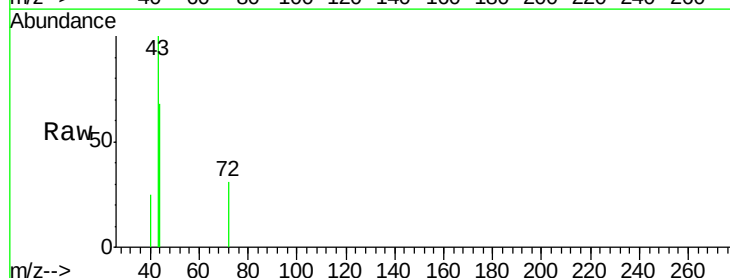
Instrument :
MSVOA_U
ClientSampleId :
CARBON-2-062818

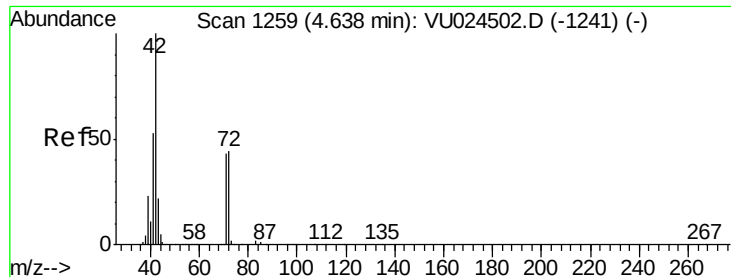
Tot Ion: 43 Resp: 1202
Ion Ratio Lower Upper
43 100
74 3.5 18.0 27.0#



#25
2-Butanone
Concen: 0.469 ug/l
RT: 4.28 min Scan# 1147
Delta R.T. 0.02 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

Tgt Ion: 43 Resp: 1107
Ion Ratio Lower Upper
43 100
72 30.8 19.6 29.4#





#29

Tetrahydrofuran

Concen: 37.663 ug/l

RT: 4.64 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

Instrument :

MSVOA_U

ClientSampleId :

CARBON-2-062818

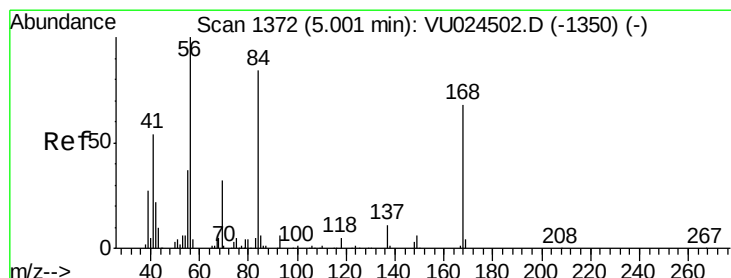
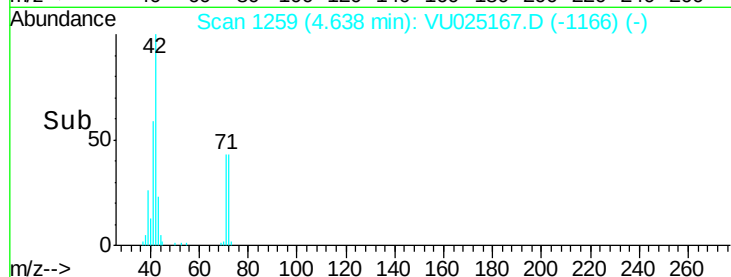
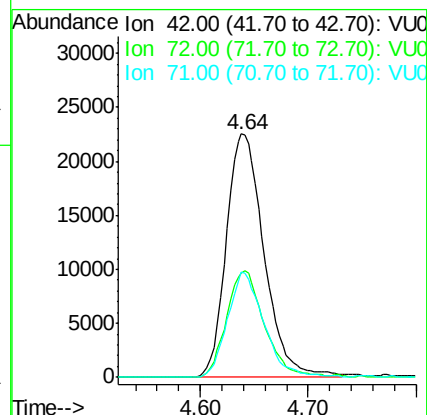
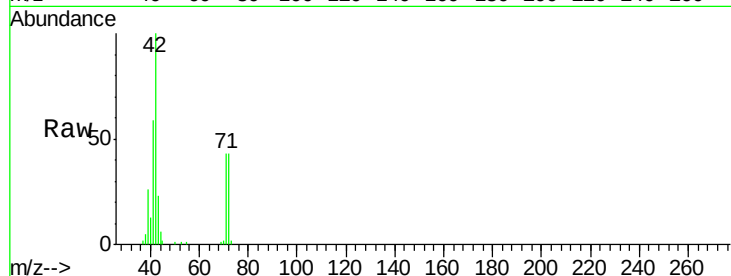
Tot Ion: 42 Resp: 55005

Ion Ratio Lower Upper

42 100

72 43.8 34.5 51.7

71 41.6 32.2 48.4



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

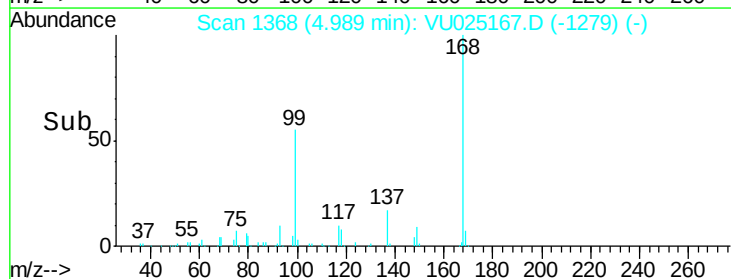
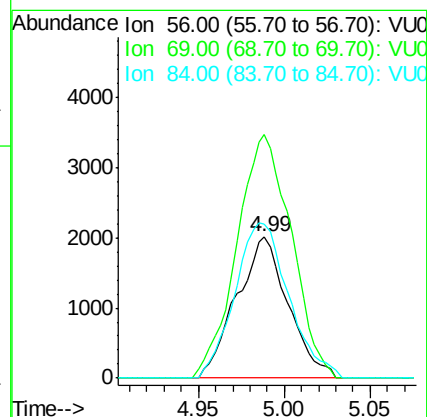
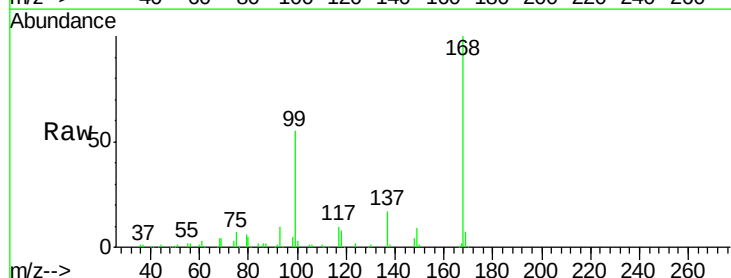
Tgt Ion: 56 Resp: 4192

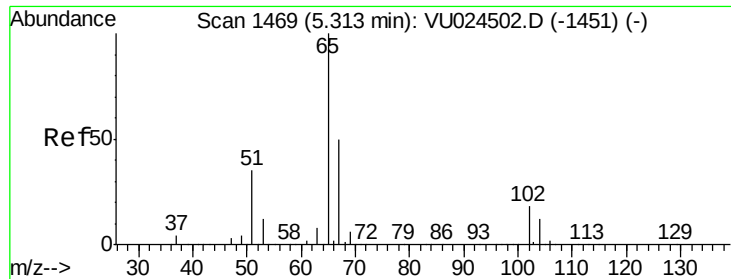
Ion Ratio Lower Upper

56 100

69 172.1 24.8 37.2#

84 108.9 65.2 97.8#

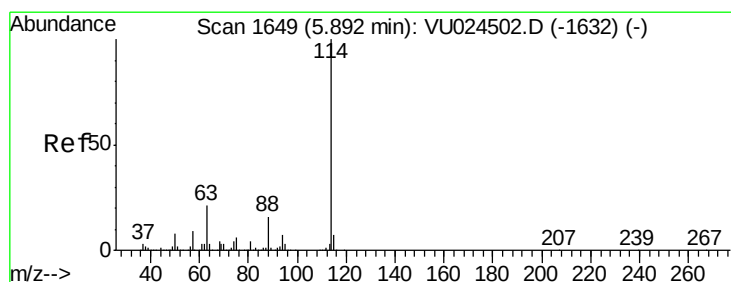
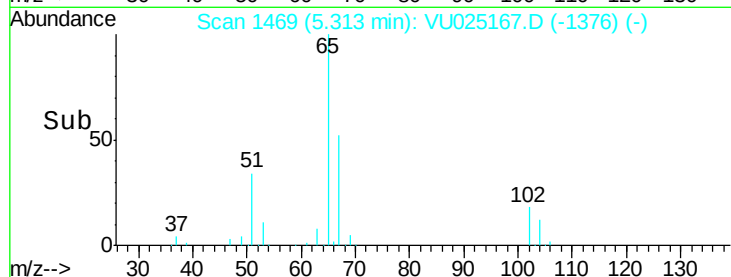
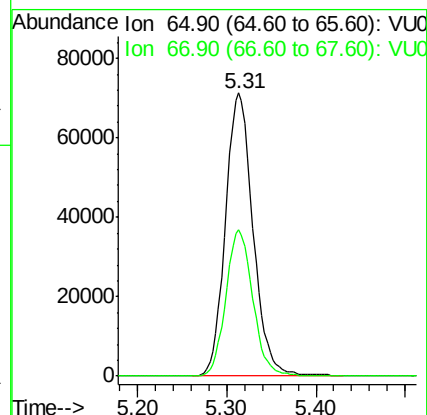
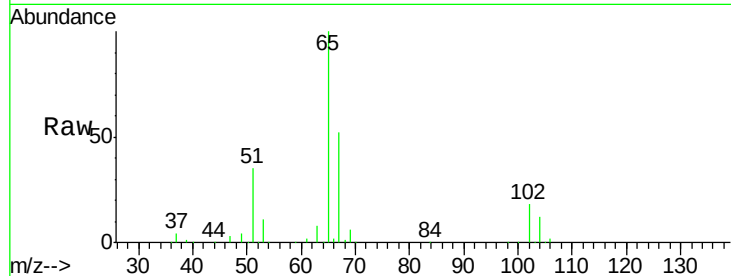




#33
 1,2-Dichloroethane-d4
 Concen: 46.719 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025167.D
 Acq: 03 Jul 2018 02:12

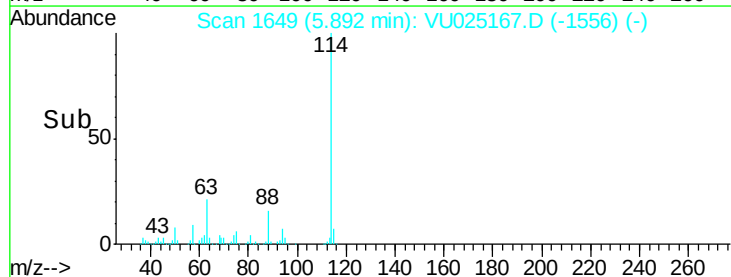
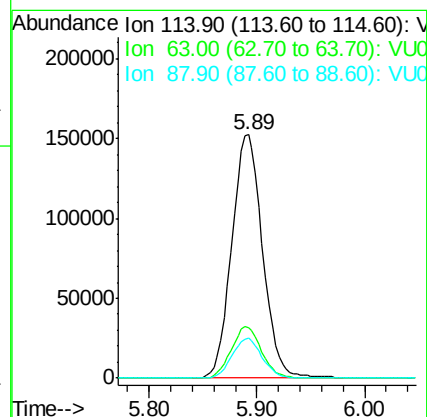
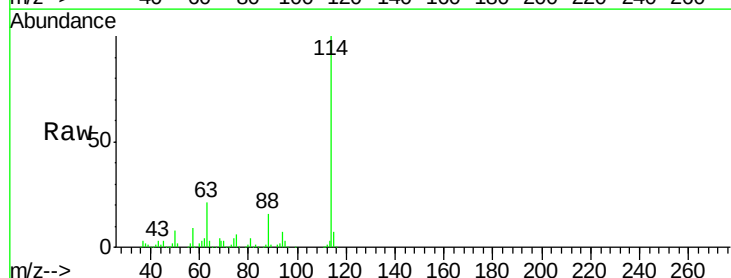
Instrument :
 MSVOA_U
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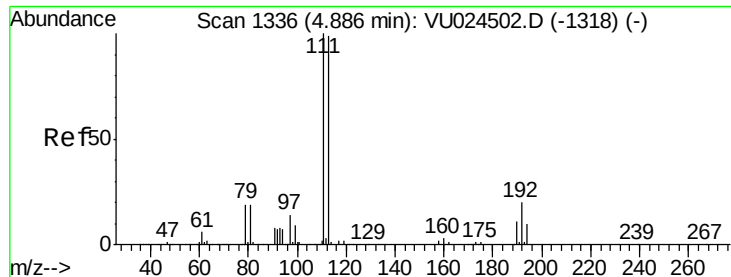
Tot Ion: 65 Resp: 152663
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025167.D
 Acq: 03 Jul 2018 02:12

Tgt Ion: 114 Resp: 303266
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 45.4
 88 16.3 0.0 31.0

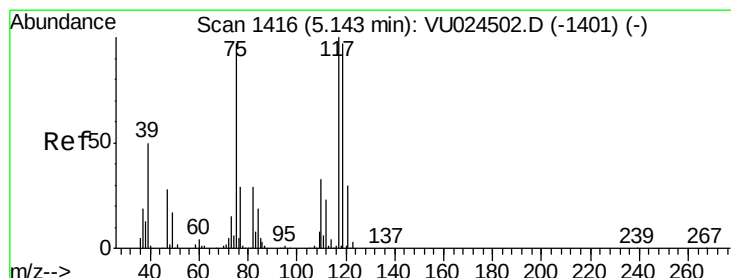
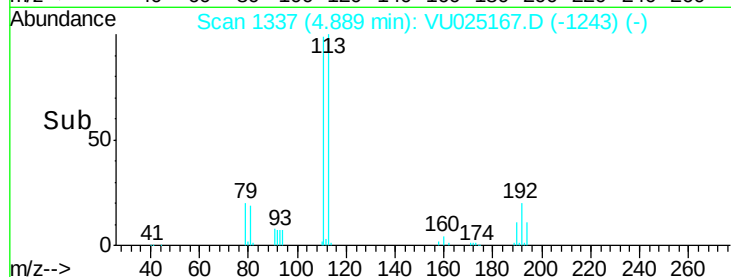
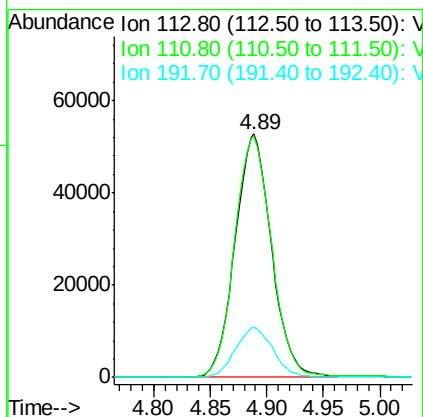
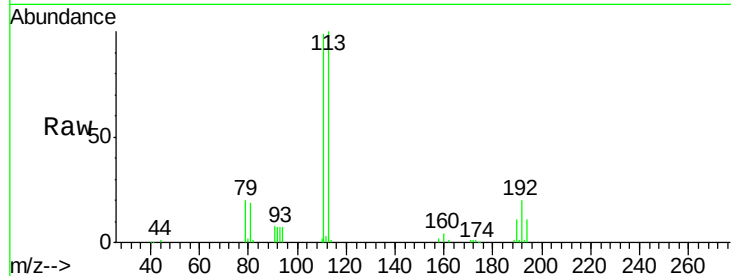




#35
 Dibromofluoromethane
 Concen: 46.991 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025167.D
 Acq: 03 Jul 2018 02:12

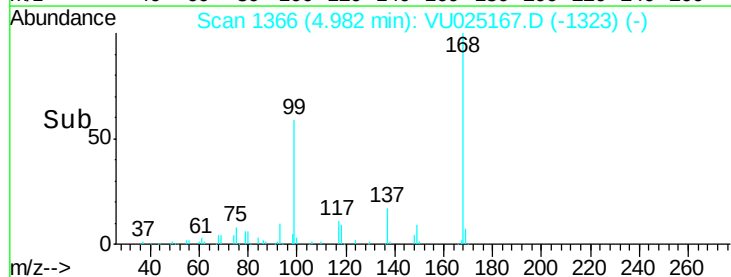
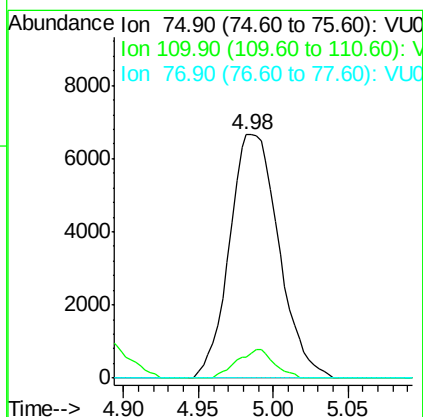
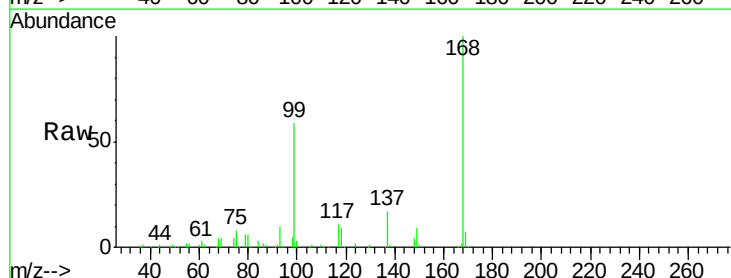
Instrument :
 MSVOA_U
 ClientSampleId :
 CARBON-2-062818

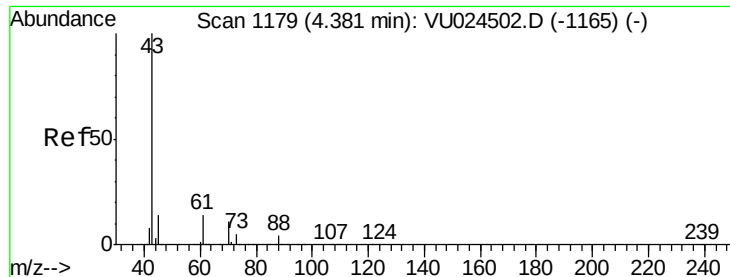
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.2	123.4
192	21.1	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.275 ug/l
 RT: 4.98 min Scan# 1366
 Delta R.T. -0.16 min
 Lab File: VU025167.D
 Acq: 03 Jul 2018 02:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.0	50.9#
77	0.0	24.2	36.4#

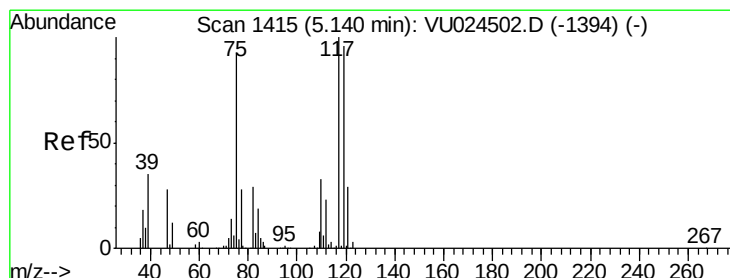
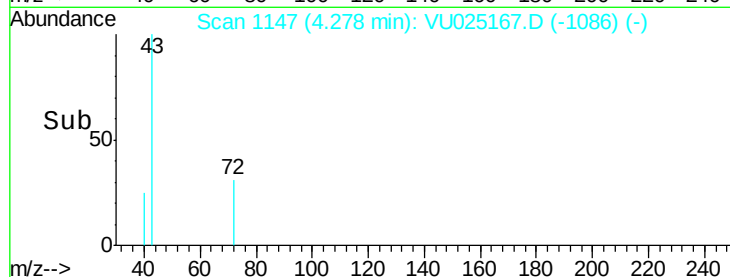
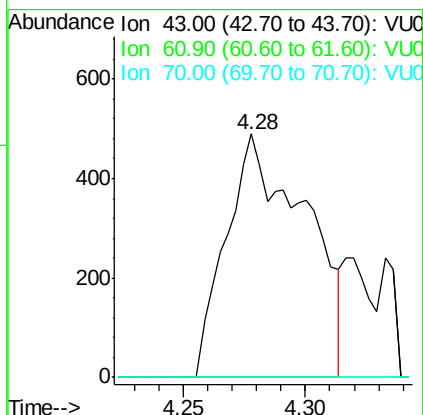
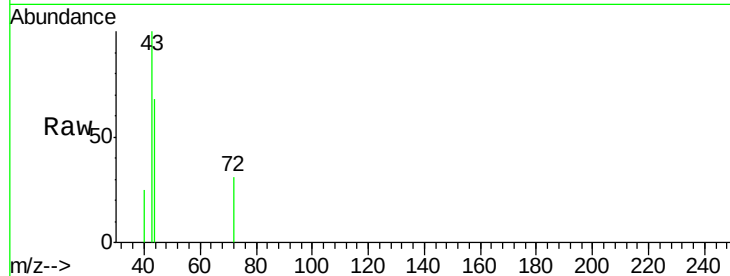




#37
Ethyl Acetate
Concen: 0.285 ug/l
RT: 4.28 min Scan# 1147
Delta R.T. -0.10 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

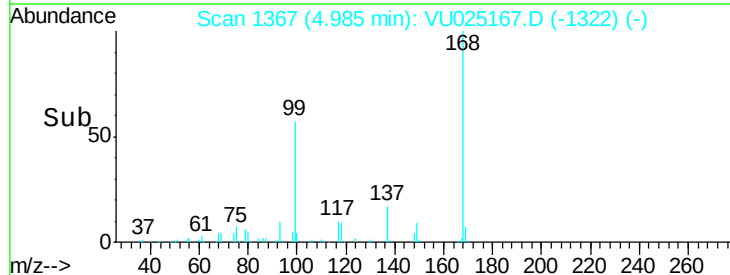
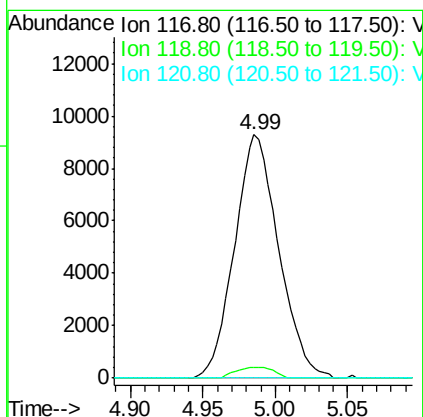
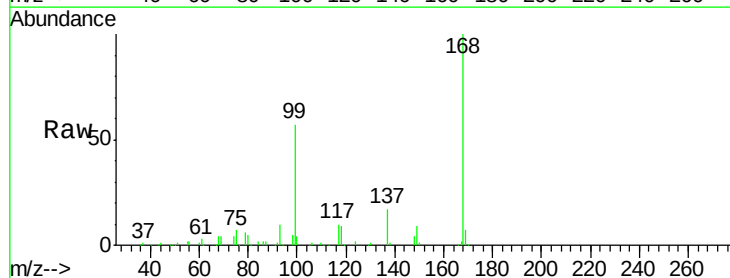
Instrument :
MSVOA_U
ClientSampleId :
CARBON-2-062818

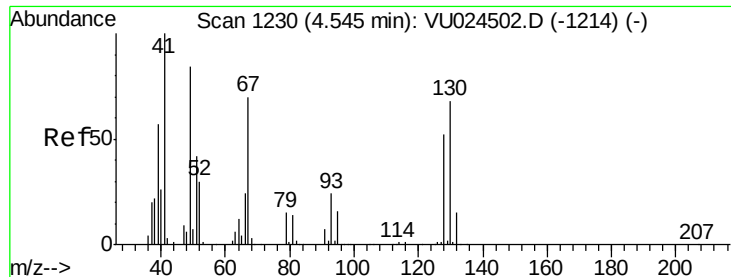
Tot Ion	43	Resp	1107
Ion Ratio	100		
Lower	10.5		
Upper	15.7		
70	0.0	7.4	11.2



#38
Carbon Tetrachloride
Concen: 5.018 ug/l
RT: 4.99 min Scan# 1367
Delta R.T. -0.15 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

Tgt Ion	117	Resp	19664
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	76.1		
Upper	114.1		
119	4.4	23.7	35.5

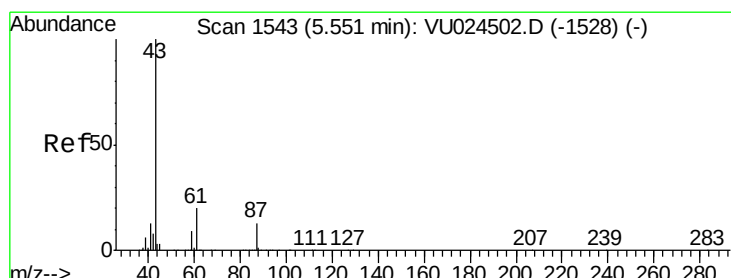
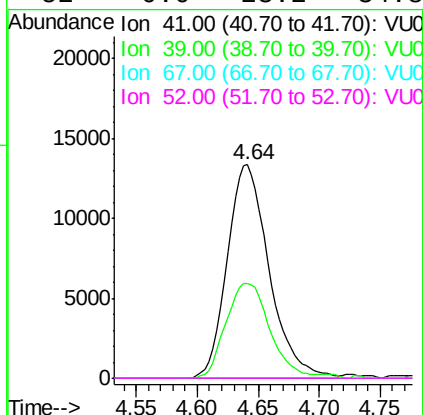
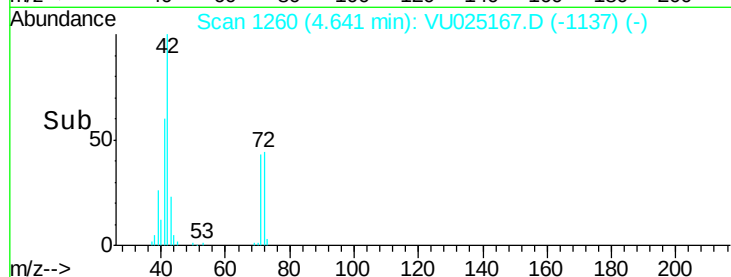
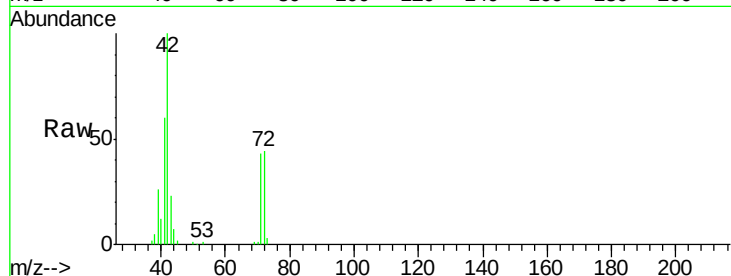




#41
Methacrylonitrile
Concen: 15.283 ug/l
RT: 4.64 min Scan# 1260
Delta R.T. 0.10 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

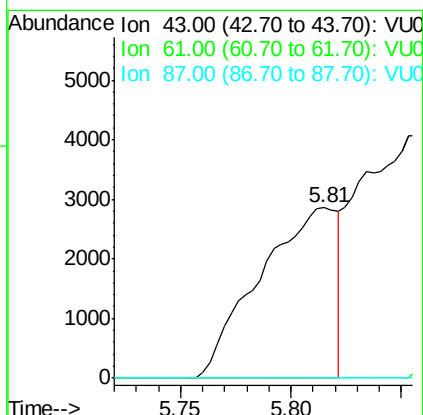
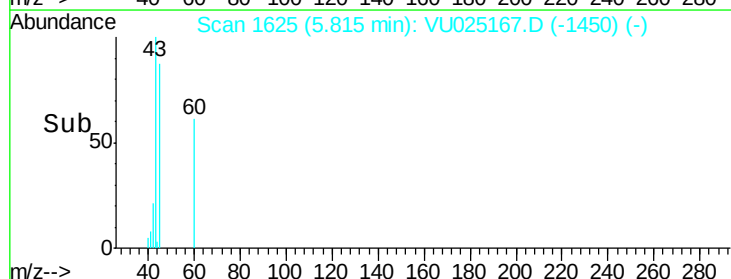
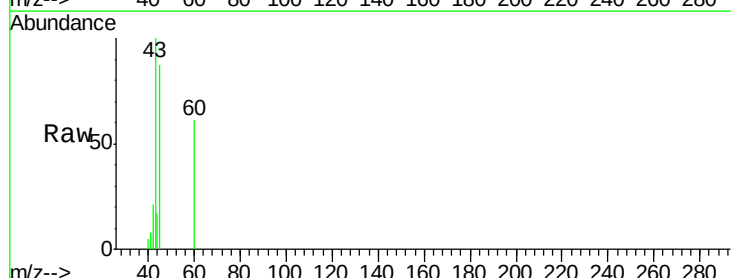
Instrument :
MSVOA_U
ClientSampleId :
CARBON-2-062818

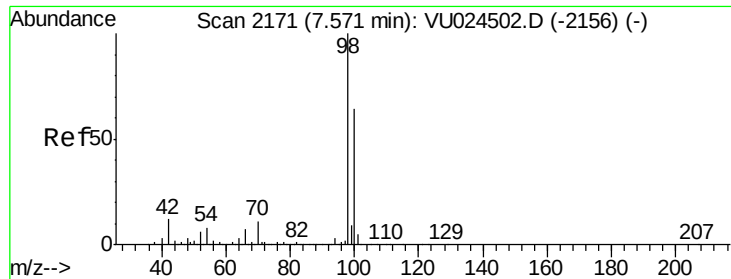
Tot Ion	Ratio	Lower	Upper
41	100		
39	46.4	43.8	65.6
67	0.0	56.3	84.5#
52	0.0	23.2	34.8#



#43
Isopropyl Acetate
Concen: 1.042 ug/l
RT: 5.81 min Scan# 1625
Delta R.T. 0.26 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	15.4	23.0#
87	0.0	10.0	15.0#





#50

Toluene-d8

Concen: 46.873 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

Instrument :

MSVOA_U

ClientSampleId :

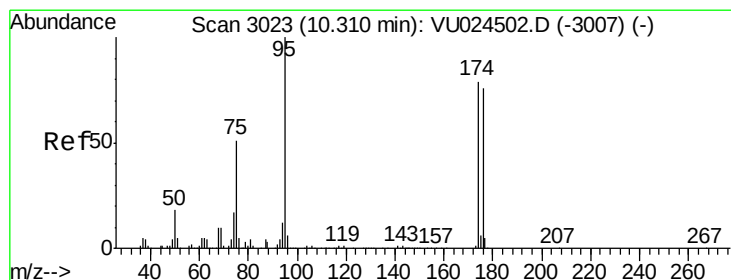
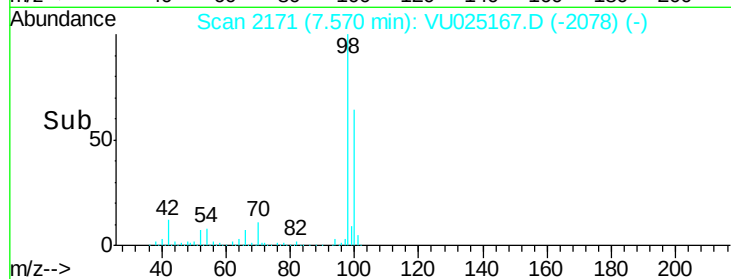
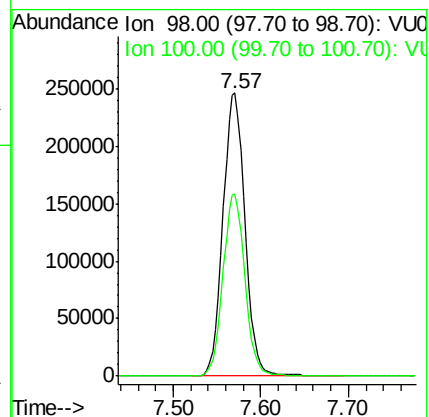
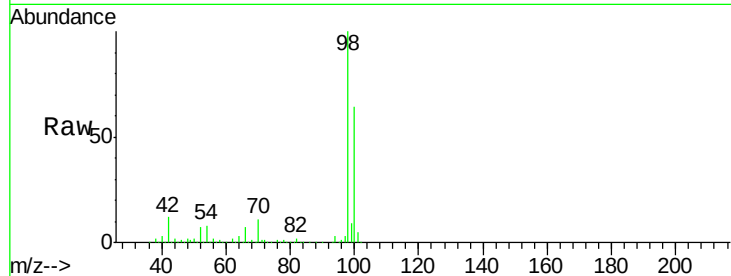
CARBON-2-062818

Tot Ion: 98 Resp: 430317

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 43.048 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

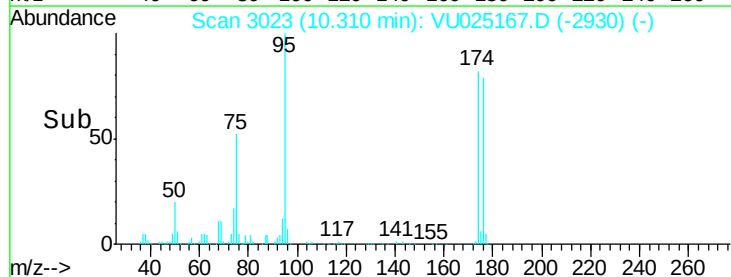
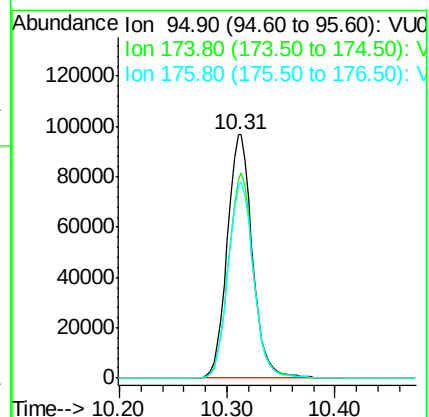
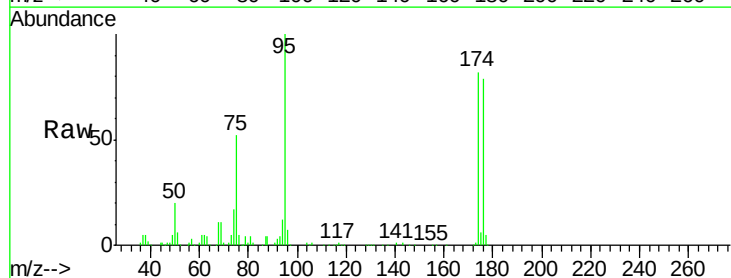
Tgt Ion: 95 Resp: 156913

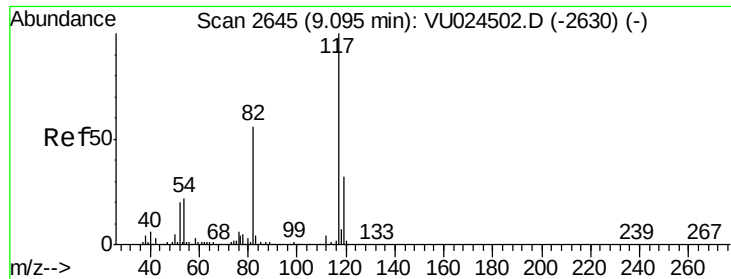
Ion Ratio Lower Upper

95 100

174 84.3 0.0 165.8

176 81.6 0.0 159.4

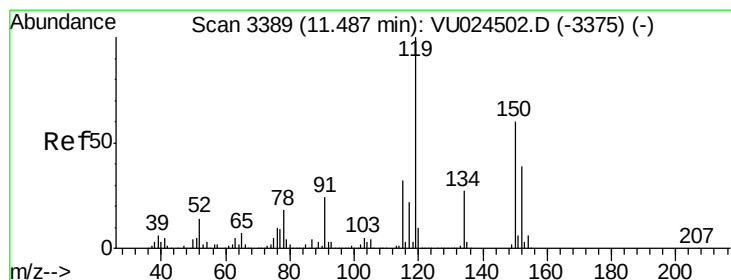
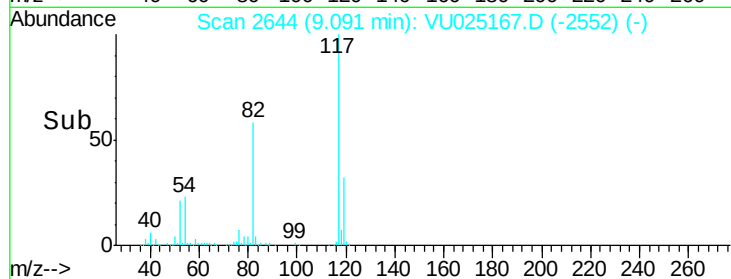
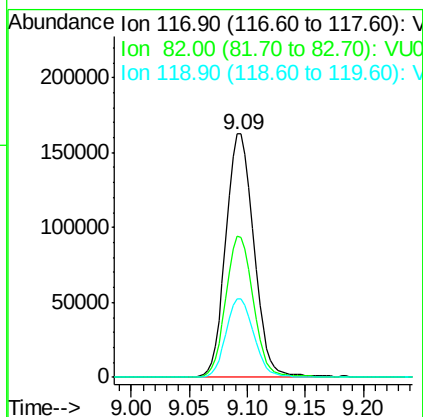
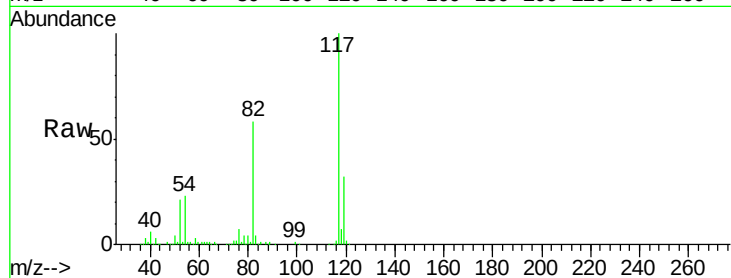




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

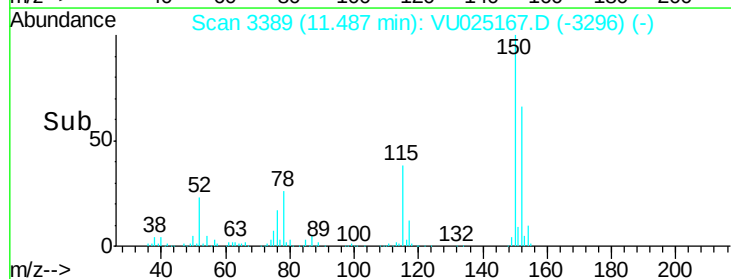
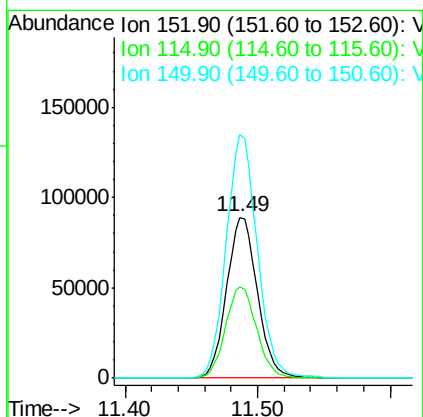
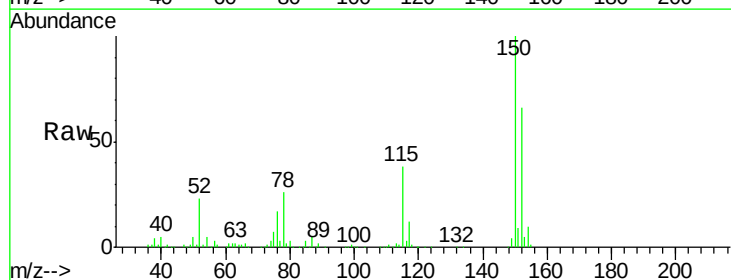
Instrument :
MSVOA_U
ClientSampleId :
CARBON-2-062818

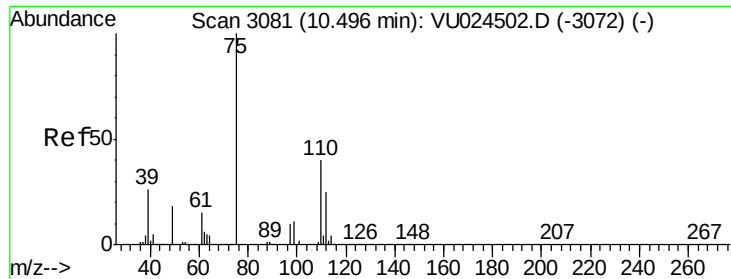
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.8	44.3	66.5
119	32.1	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025167.D
Acq: 03 Jul 2018 02:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	43.0	129.0
150	153.1	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 25.535 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

Instrument :

MSVOA_U

ClientSampleId :

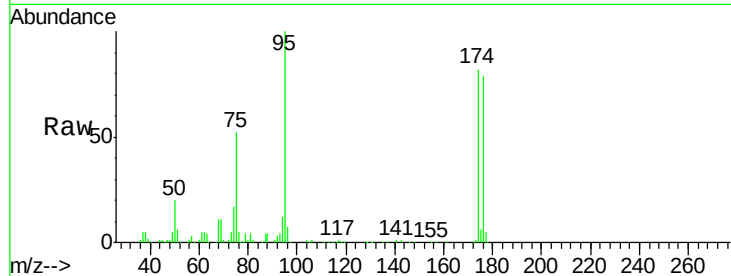
CARBON-2-062818

Tot Ion: 75 Resp: 80757

Ion Ratio Lower Upper

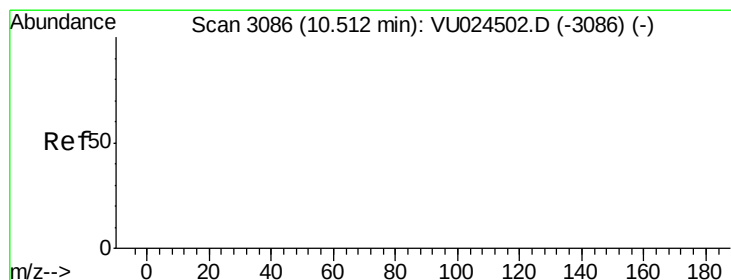
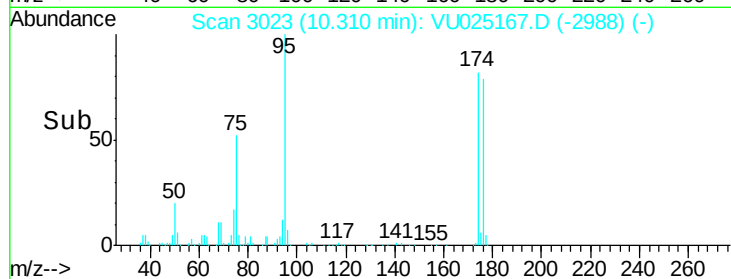
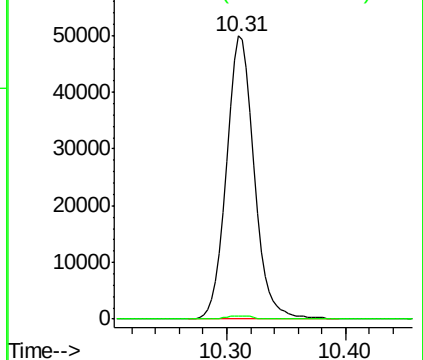
75 100

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: 59.099 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025167.D

Acq: 03 Jul 2018 02:12

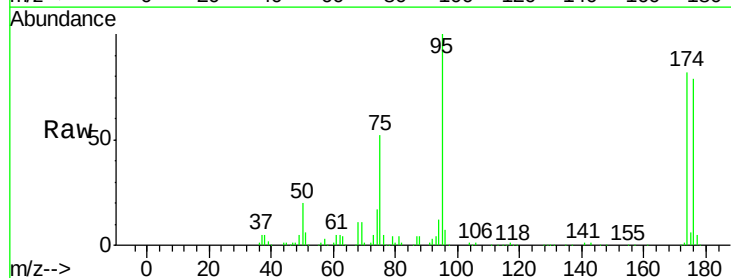
Tgt Ion: 75 Resp: 80757

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

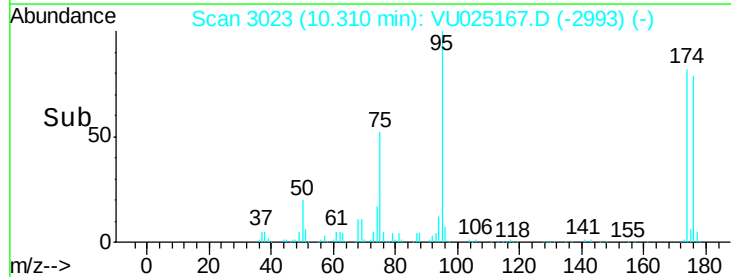
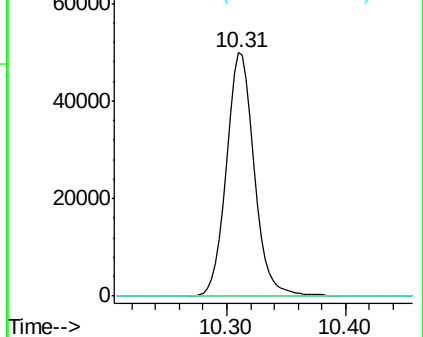
89 0.0 0.0 0.0

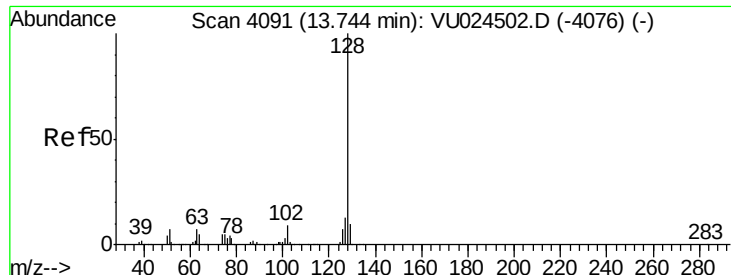


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95
 Naphthalene
 Concen: 0.701 ug/l
 RT: 13.78 min Scan# 4103
 Delta R.T. 0.04 min
 Lab File: VU025167.D
 Acq: 03 Jul 2018 02:12

Instrument :
 MSVOA_U
 ClientSampleId :
 CARBON-2-062818

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

