

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070318\
 Data File : VU025185.D
 Acq On : 03 Jul 2018 12:49
 Operator : MD/SY
 Sample : J3809-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 04 04:57:15 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	270422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	398416	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	363272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	198245	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	184450	41.78	ug/l	0.00
Spiked Amount			Recovery	=	83.56%	
35) Dibromofluoromethane	4.89	113	144712	43.77	ug/l	0.00
Spiked Amount			Recovery	=	87.54%	
50) Toluene-d8	7.57	98	576861	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
62) 4-Bromofluorobenzene	10.31	95	210021	43.86	ug/l	0.00
Spiked Amount			Recovery	=	87.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	461	0.267	ug/l	97
6) Chloroethane	1.70	64	19	Below Cal	#	43
10) Methyl Iodide	2.42	142	224	5.359	ug/l #	40
11) Tert butyl alcohol	2.83	59	5861	5.459	ug/l #	72
13) Acrolein	2.20	56	305	0.541	ug/l #	13
15) Acrylonitrile	3.00	53	847	0.405	ug/l #	20
16) Acetone	2.32	43	6516	2.747	ug/l	96
19) Methyl tert-butyl Ether	3.00	73	91642	7.918	ug/l	97
31) Cyclohexane	4.99	56	5189	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	20496	4.378	ug/l #	51
38) Carbon Tetrachloride	4.99	117	26910	5.227	ug/l #	16
76) 1,2,3-Trichloropropane	10.31	75	109106	24.998	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	109106	57.855	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.16	105	3508	0.261	ug/l	91
95) Naphthalene	13.76	128	5443	1.048	ug/l #	92

(#) = 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

Lab File: VU025185.D

Acq: 03 Jul 2018 12:49

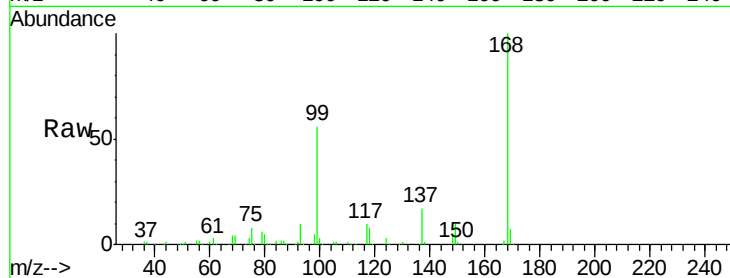
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 270422

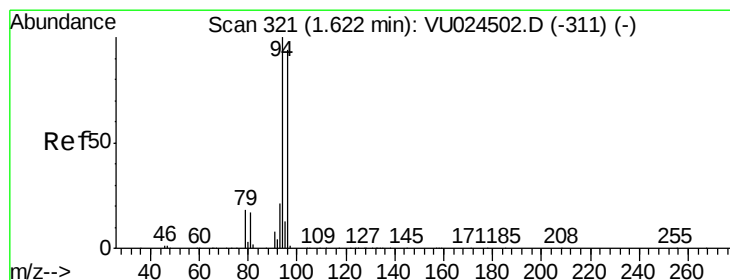
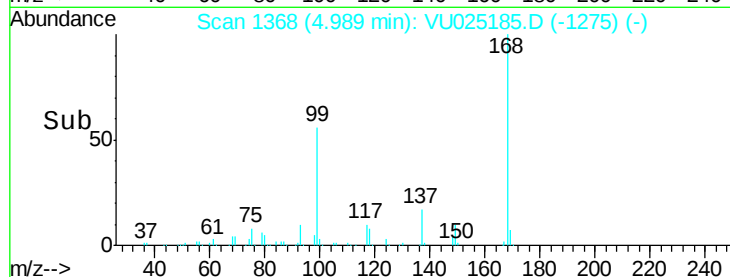
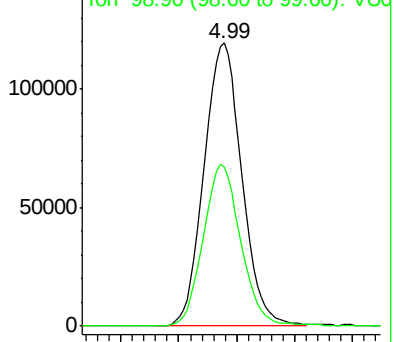
Ion Ratio Lower Upper

168 100

99 56.3 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025185.D (-1275) (-)



#5

Bromomethane

Concen: 0.267 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU025185.D

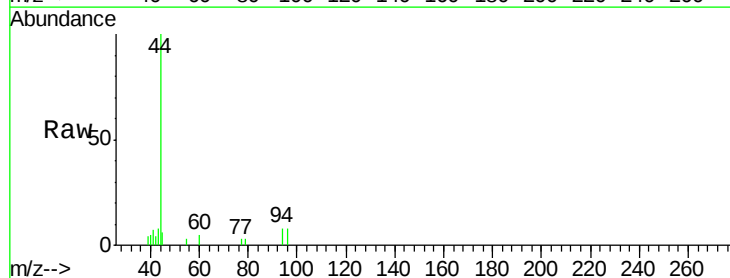
Acq: 03 Jul 2018 12:49

Tgt Ion: 94 Resp: 461

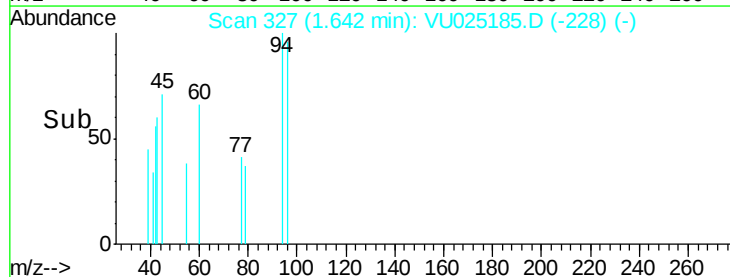
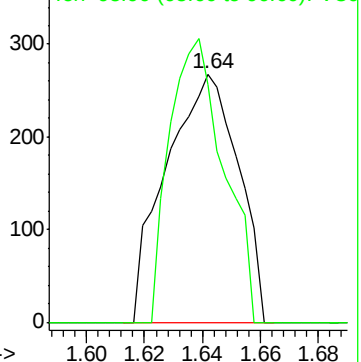
Ion Ratio Lower Upper

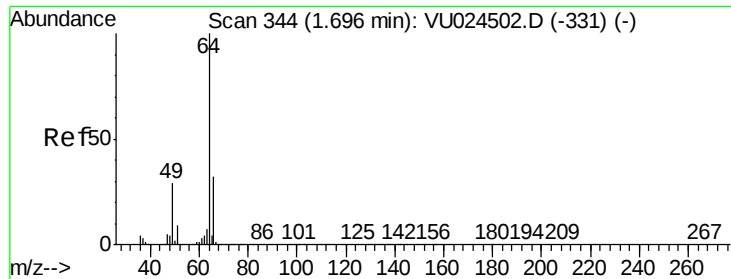
94 100

96 95.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU025185.D (-228) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025185.D

Acq: 03 Jul 2018 12:49

Instrument :

MSVOA_U

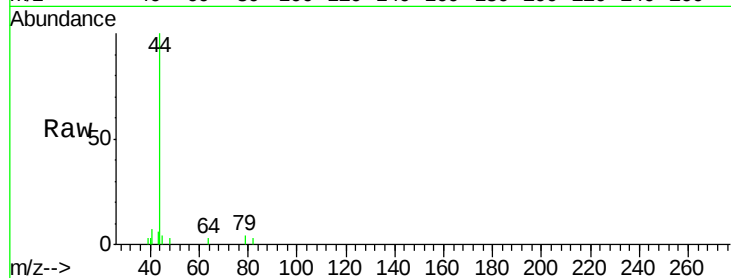
ClientSampleId :

Tot Ion: 64 Resp: 19

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

1.70

100

80

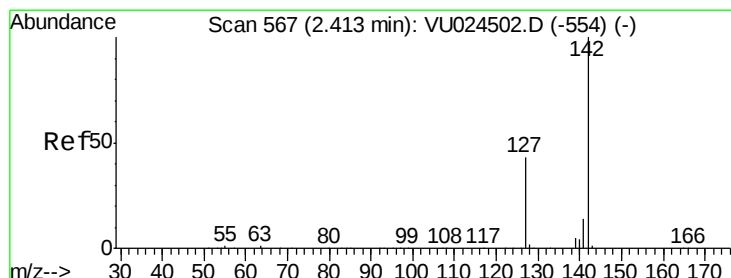
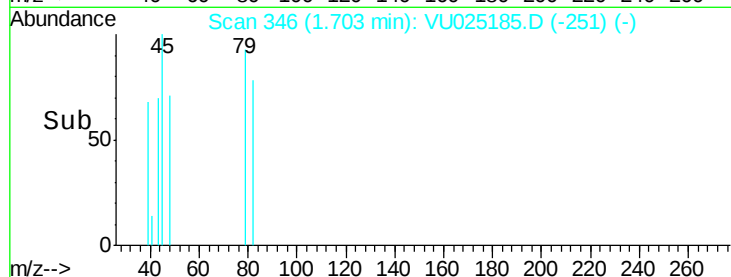
60

40

20

0

Time-->



#10

Methyl Iodide

Concen: 5.359 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU025185.D

Acq: 03 Jul 2018 12:49

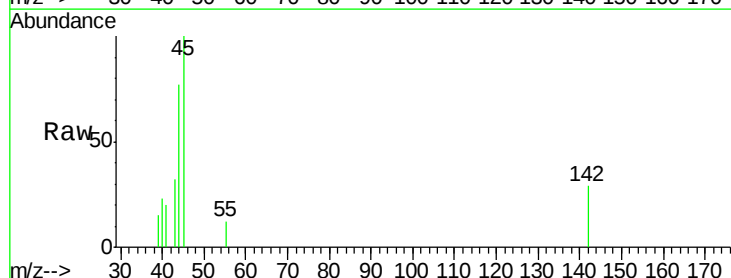
Tgt Ion: 142 Resp: 224

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

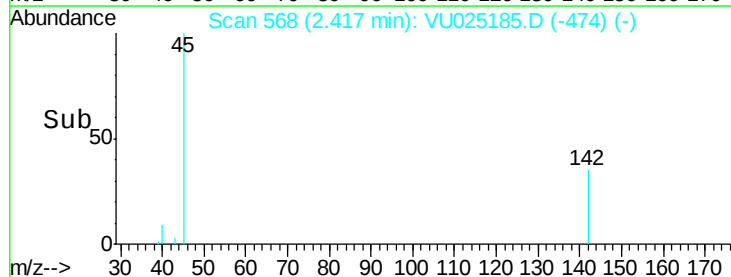
300

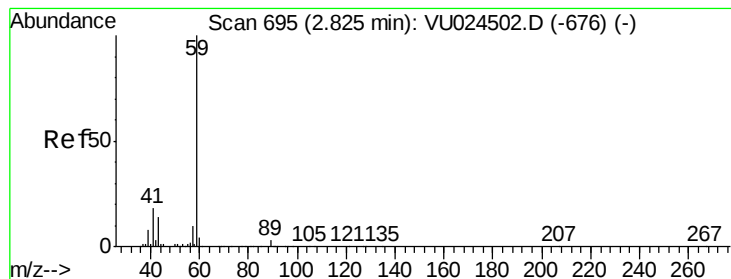
200

100

0

Time-->



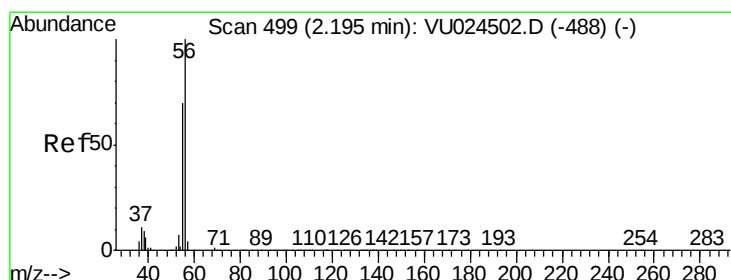
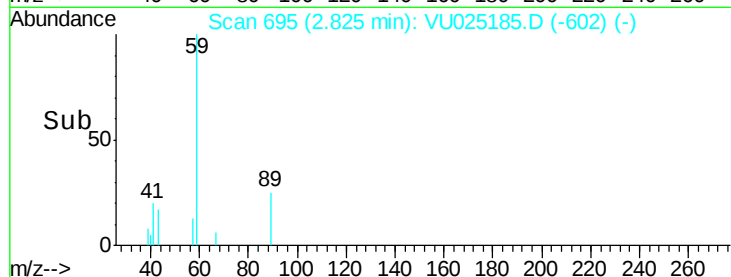
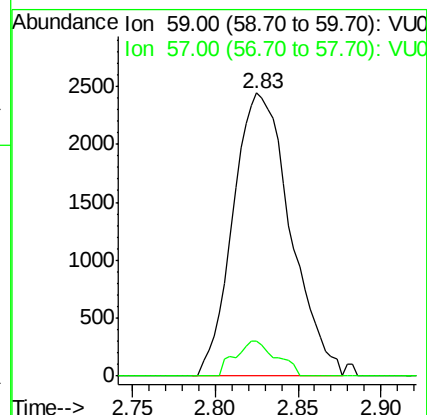
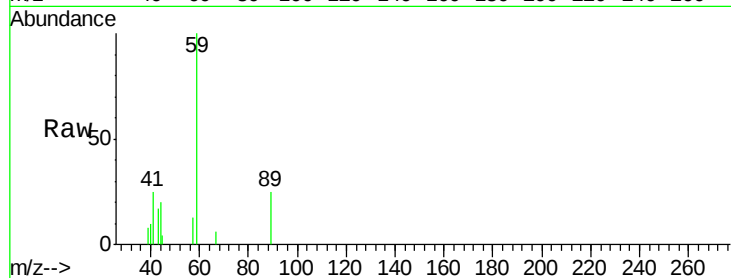


#11

Tert butyl alcohol
Concen: 5.459 ug/l
RT: 2.83 min Scan# 695
Delta R.T. 0.00 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

Instrument :
MSVOA_U
ClientSampled :

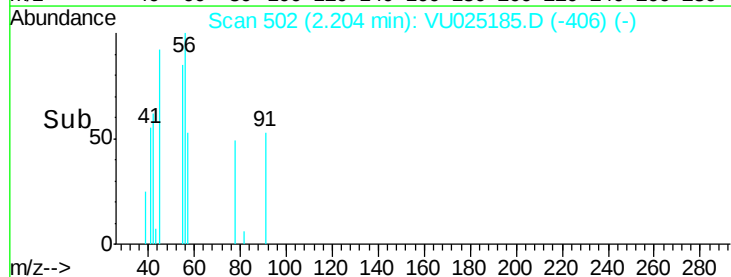
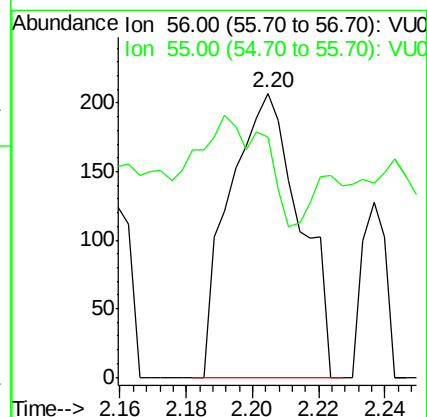
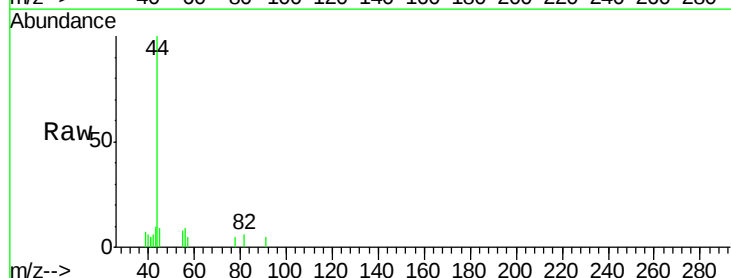
Tot Ion: 59 Resp: 5861
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

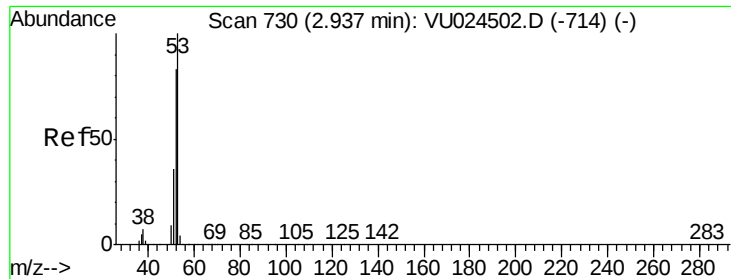


#13

Acrolein
Concen: 0.541 ug/l
RT: 2.20 min Scan# 502
Delta R.T. 0.01 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

Tgt Ion: 56 Resp: 305
Ion Ratio Lower Upper
56 100
55 0.0 58.4 87.6#





#15

Acrylonitrile

Concen: 0.405 ug/l

RT: 3.00 min Scan# 748

Delta R.T. 0.06 min

Lab File: VU025185.D

Acq: 03 Jul 2018 12:49

Instrument :

MSVOA_U

ClientSampled :

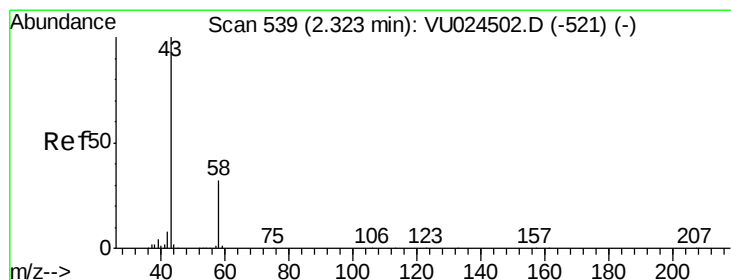
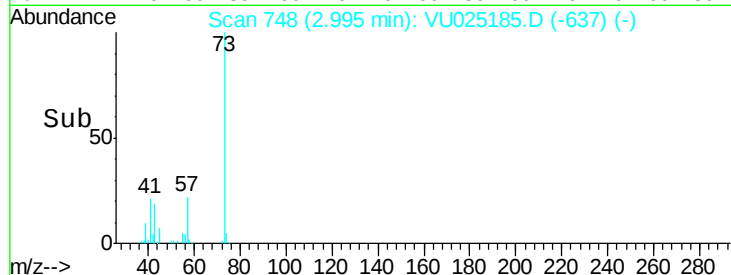
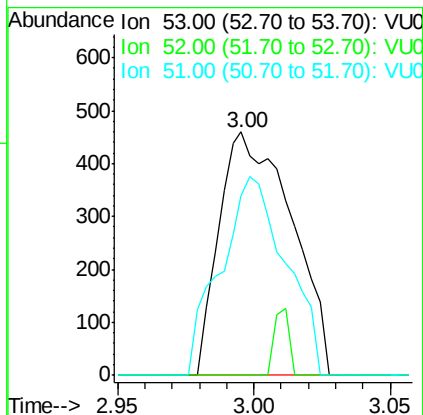
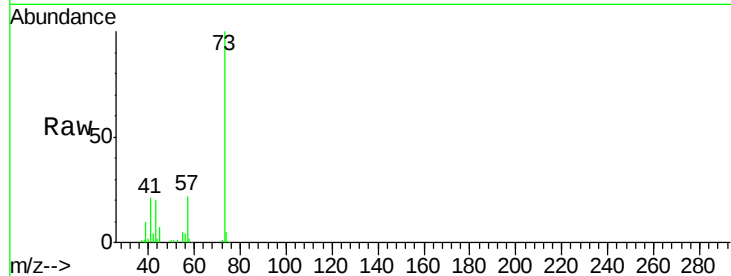
Tot Ion: 53 Resp: 847

Ion Ratio Lower Upper

53 100

52 5.5 67.1 100.7#

51 73.8 28.4 42.6#



#16

Acetone

Concen: 2.747 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025185.D

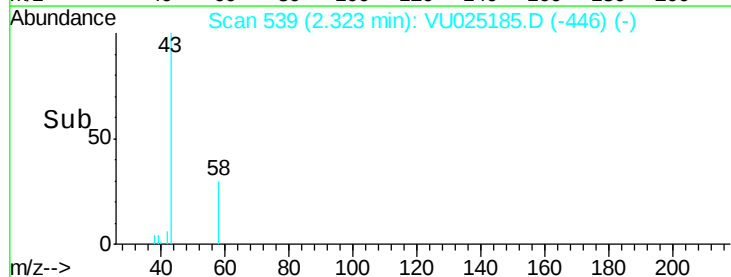
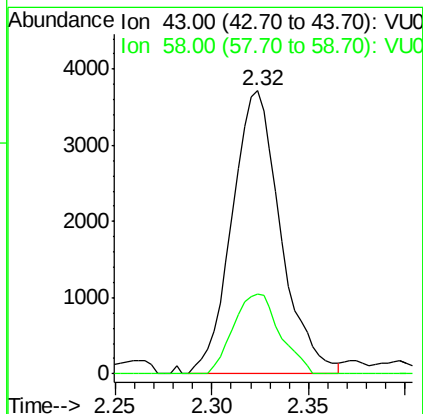
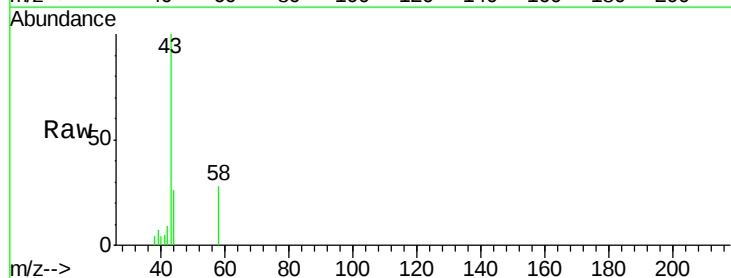
Acq: 03 Jul 2018 12:49

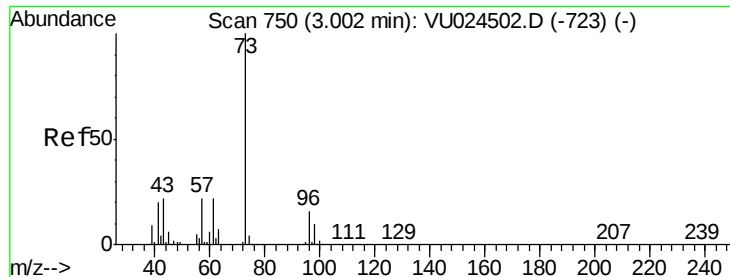
Tgt Ion: 43 Resp: 6516

Ion Ratio Lower Upper

43 100

58 28.2 24.4 36.6

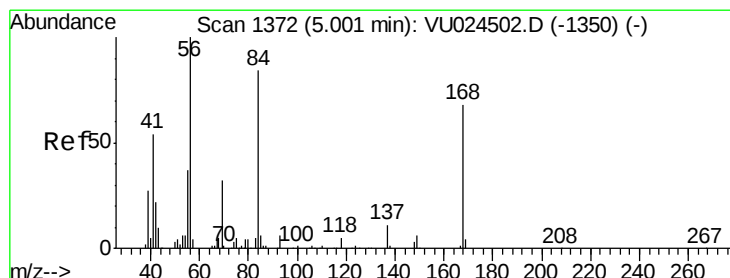
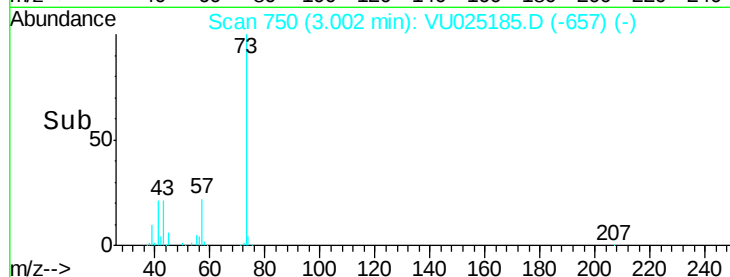
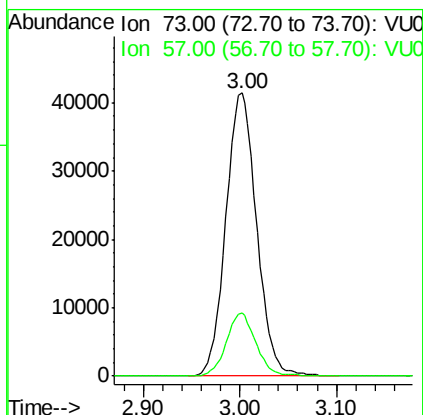
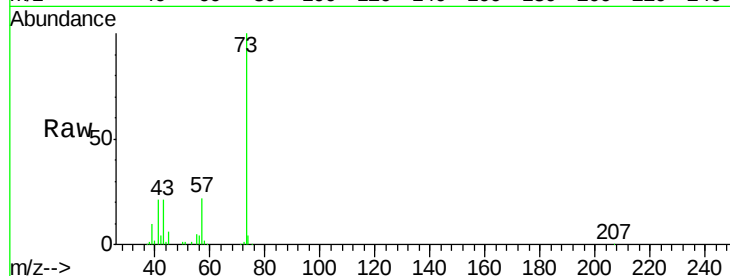




#19
Methvl tert-butvl Ether
Concen: 7.918 ug/l
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

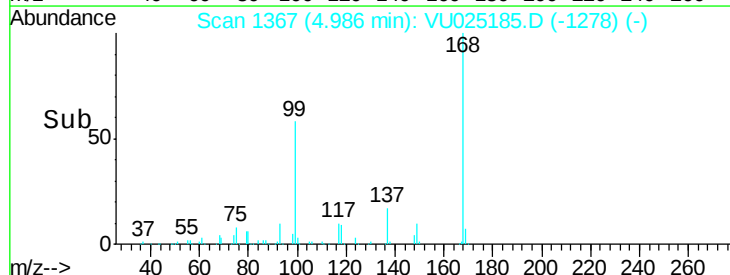
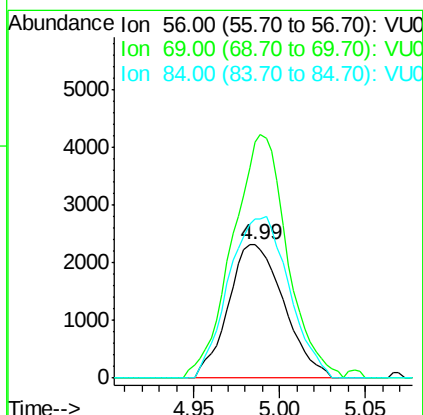
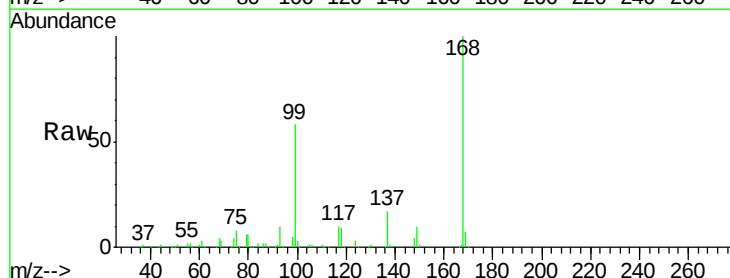
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 91642
Ion Ratio Lower Upper
73 100
57 22.2 18.8 28.2



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

Tgt Ion: 56 Resp: 5189
Ion Ratio Lower Upper
56 100
69 172.1 24.8 37.2#
84 119.2 65.2 97.8#

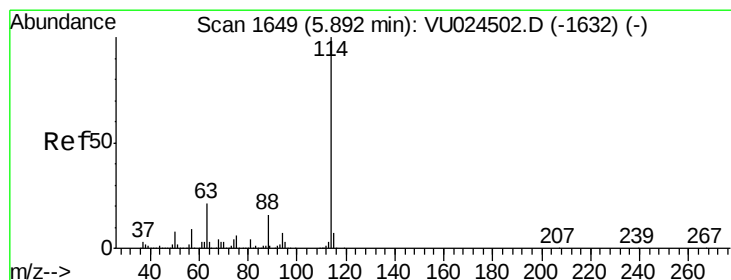
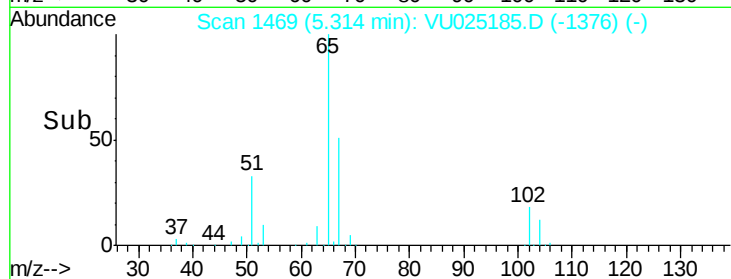
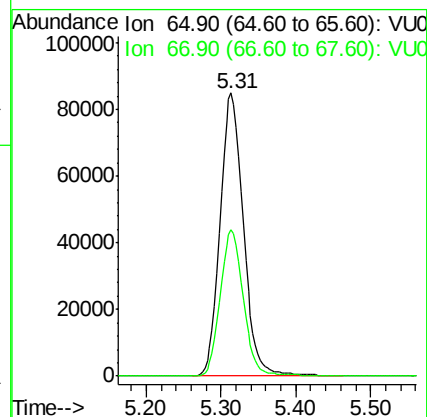
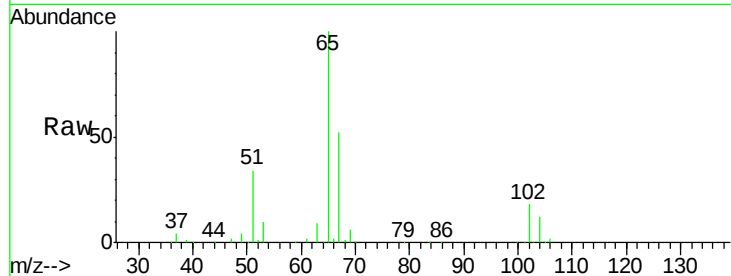




#33
 1,2-Dichloroethane-d4
 Concen: 41.781 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025185.D
 Acq: 03 Jul 2018 12:49

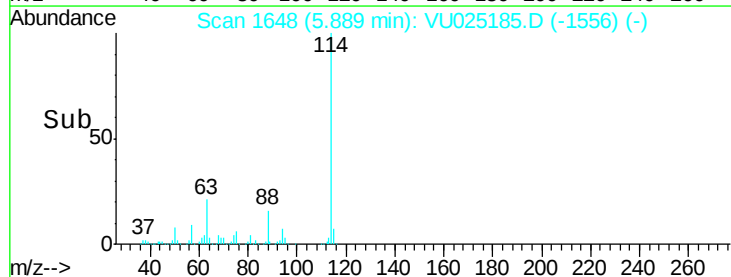
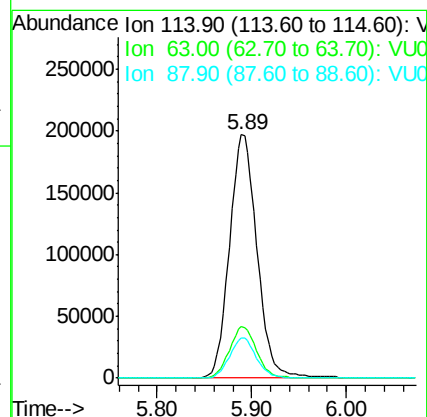
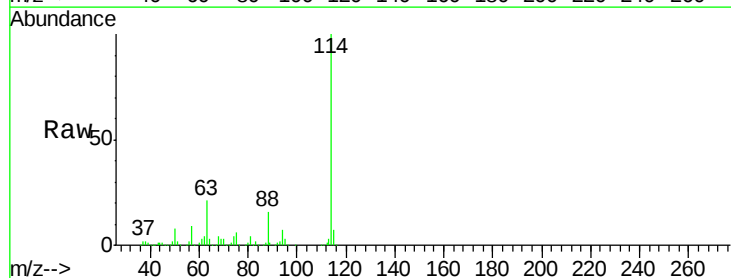
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 65 Resp: 184450
 Ion Ratio Lower Upper
 65 100
 67 50.6 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: VU025185.D
 Acq: 03 Jul 2018 12:49

Tgt Ion: 114 Resp: 398416
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 45.4
 88 16.4 0.0 31.0

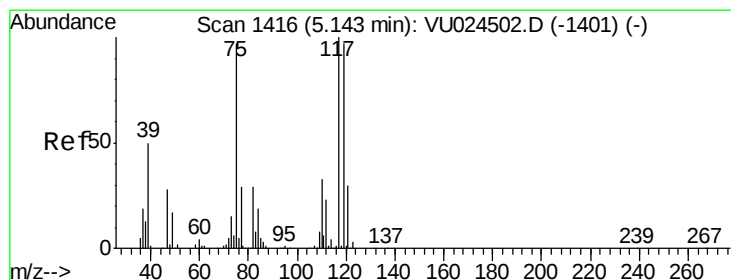
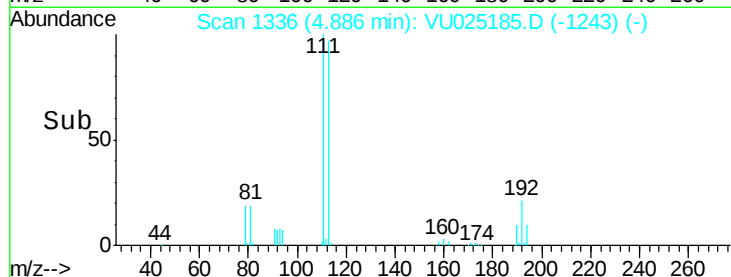
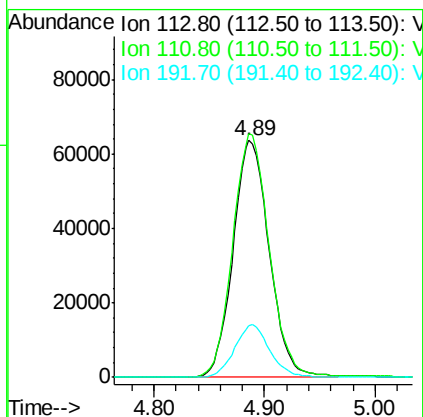
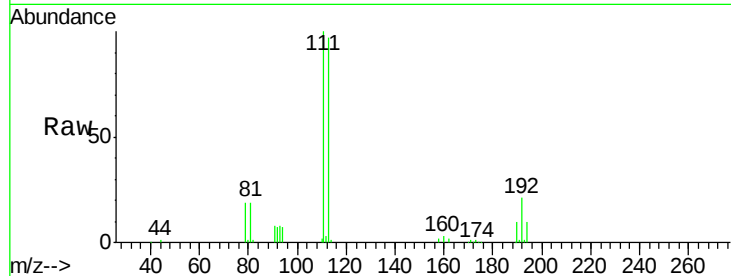




#35
 Dibromofluoromethane
 Concen: 43.765 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025185.D
 Acq: 03 Jul 2018 12:49

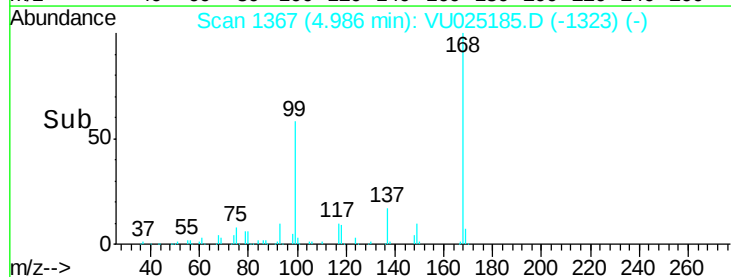
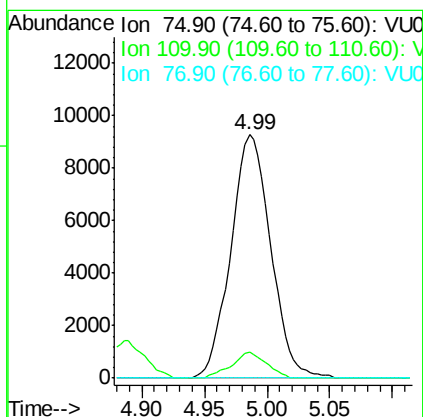
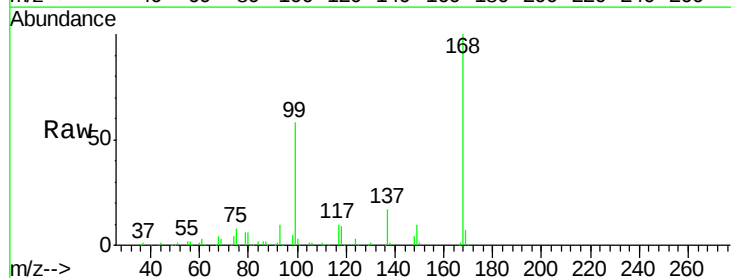
Instrument :
 MSVOA_U
 ClientSampleId :

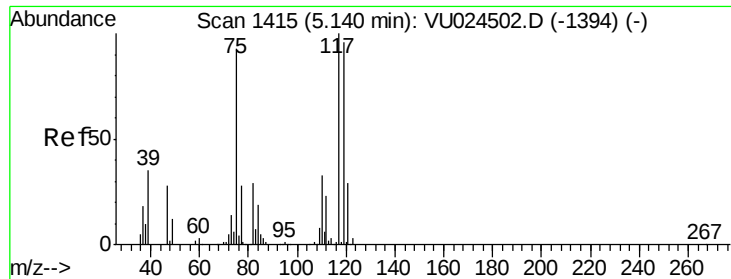
Tot Ion:113 Resp: 144712
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.2 123.4
 192 21.5 16.2 24.4



#36
 1,1-Dichloropropene
 Concen: 4.378 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025185.D
 Acq: 03 Jul 2018 12:49

Tgt Ion: 75 Resp: 20496
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.0 50.9#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 5.227 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025185.D

Acq: 03 Jul 2018 12:49

Instrument :

MSVOA_U

ClientSampleId :

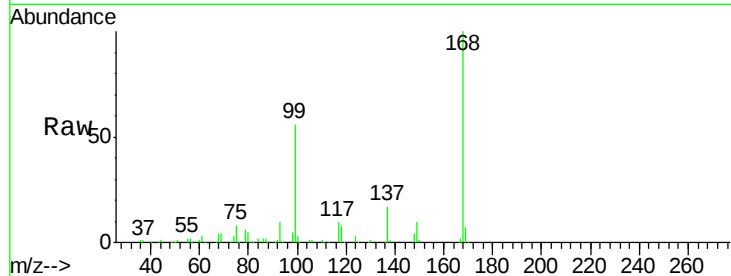
Tot Ion:117 Resp: 26910

Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

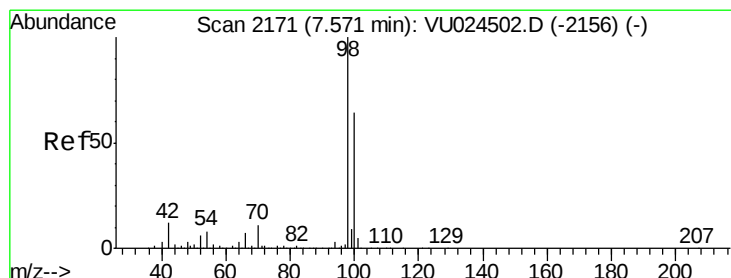
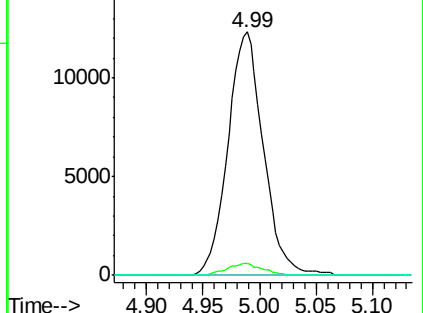
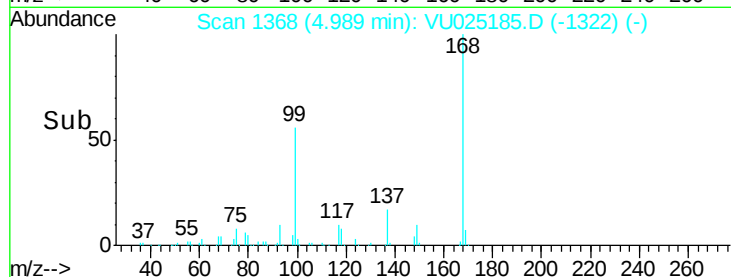
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 47.829 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025185.D

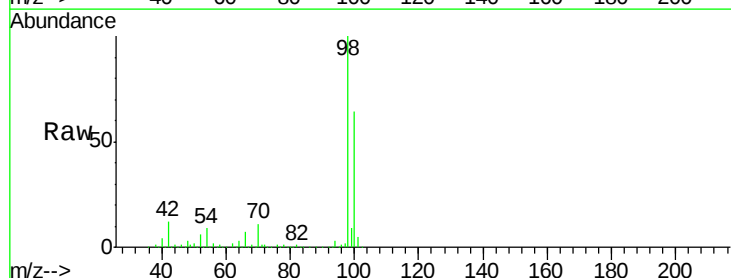
Acq: 03 Jul 2018 12:49

Tgt Ion: 98 Resp: 576861

Ion Ratio Lower Upper

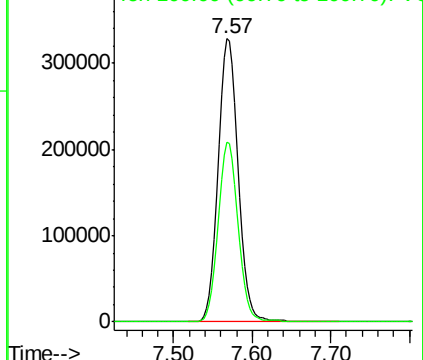
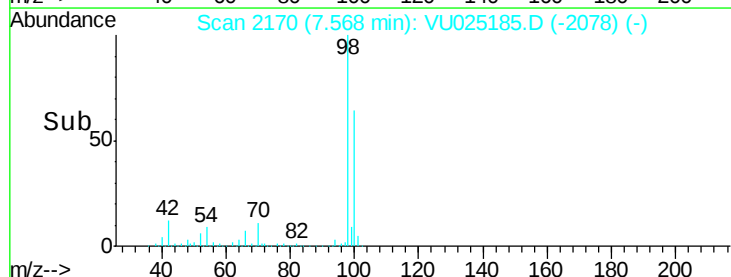
98 100

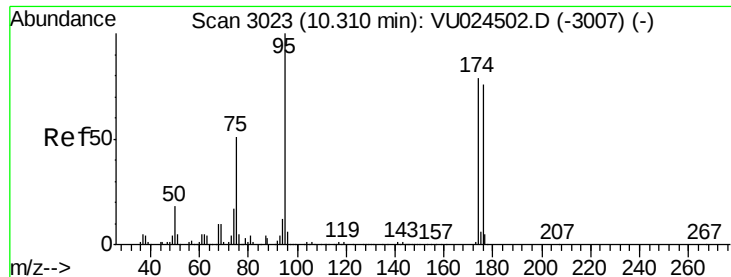
100 63.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

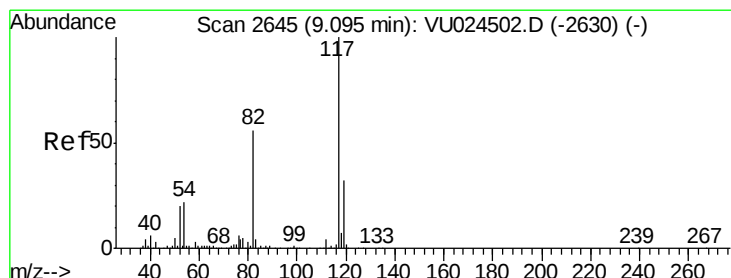
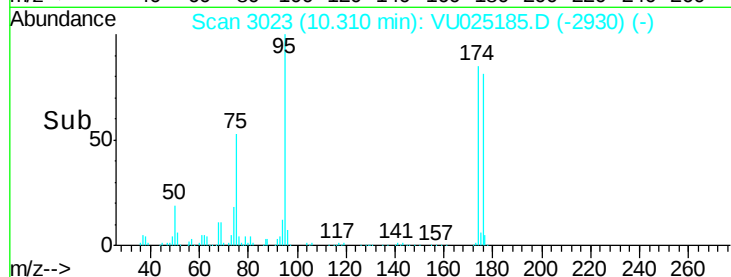
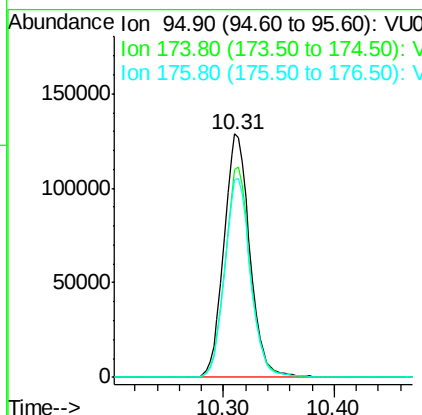
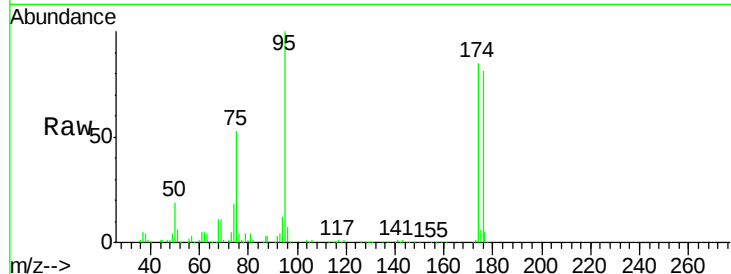




#62
4-Bromofluorobenzene
Concen: 43.858 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

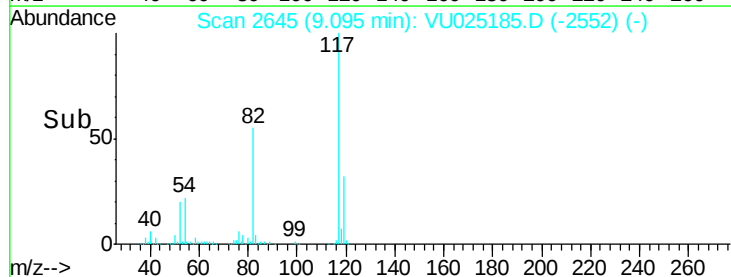
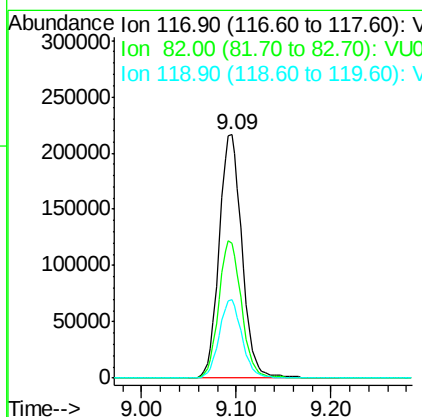
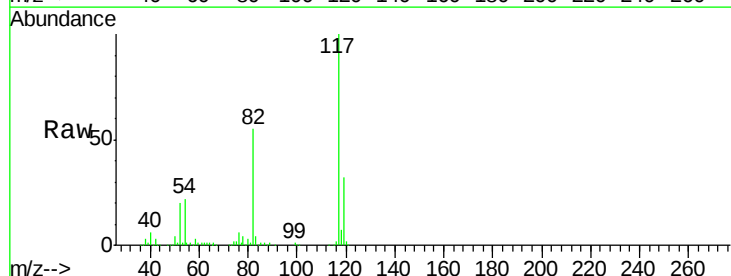
Instrument :
MSVOA_U
ClientSampleId :

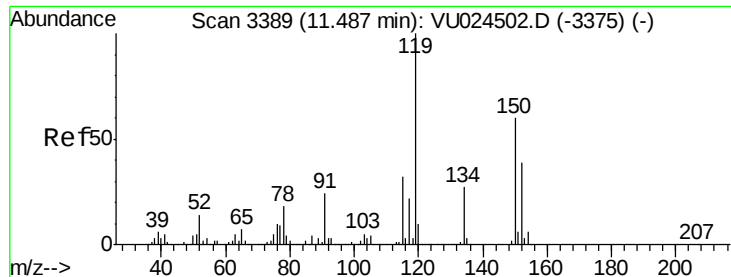
Tot Ion	95	Resp	210021
Ion Ratio	Lower	Upper	
95	100		
174	84.2	0.0	165.8
176	81.2	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

Tgt Ion	117	Resp	363272
Ion Ratio	Lower	Upper	
117	100		
82	55.5	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: VU025185.D

Acq: 03 Jul 2018 12:49

Instrument :

MSVOA_U

ClientSampleId :

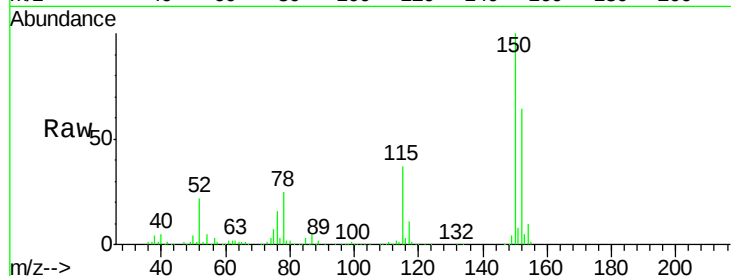
Tot Ion:152 Resp: 198245

Ion Ratio Lower Upper

152 100

115 58.1 43.0 129.0

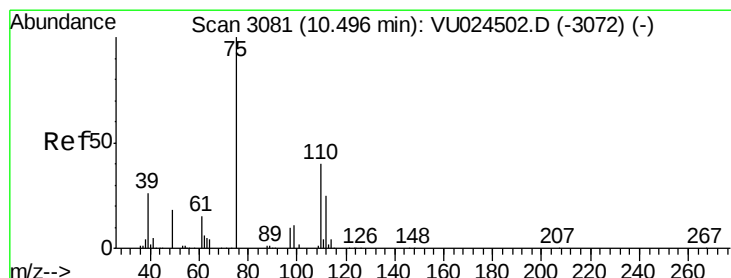
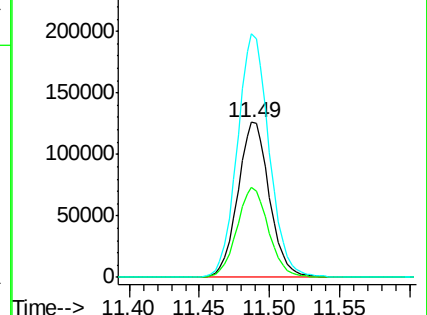
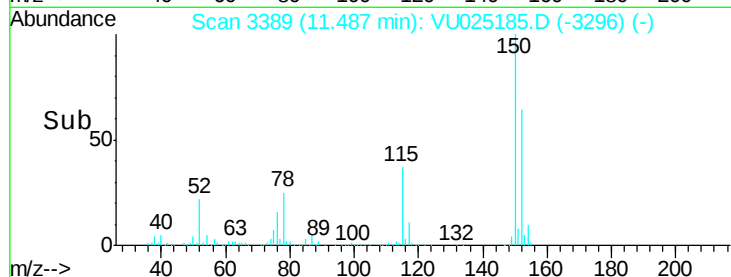
150 158.4 0.0 354.0



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: 24.998 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025185.D

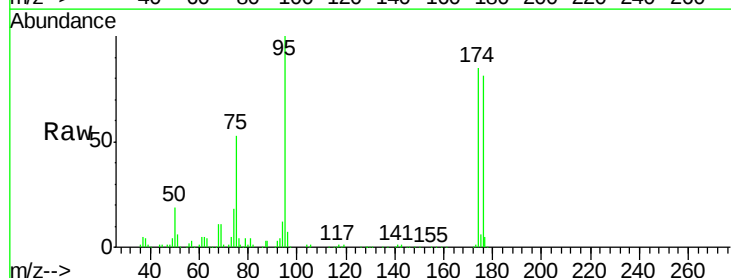
Acq: 03 Jul 2018 12:49

Tgt Ion: 75 Resp: 109106

Ion Ratio Lower Upper

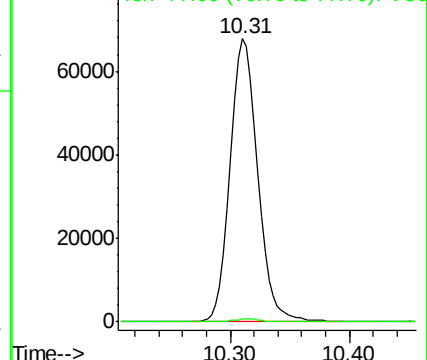
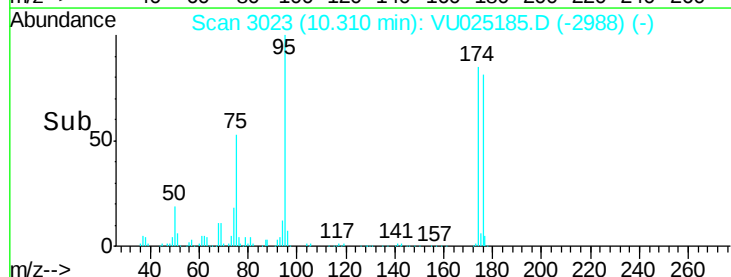
75 100

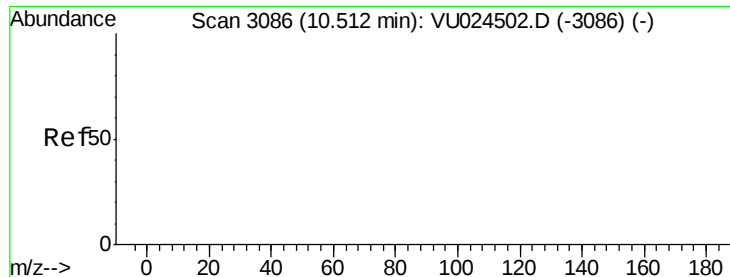
77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

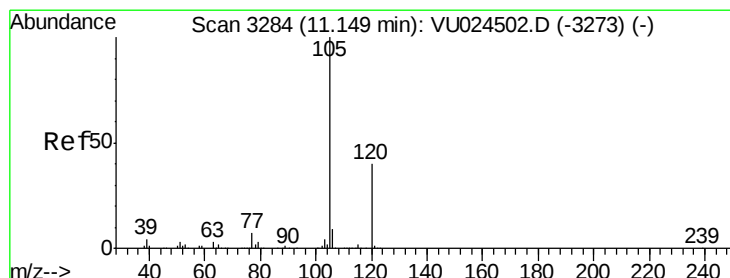
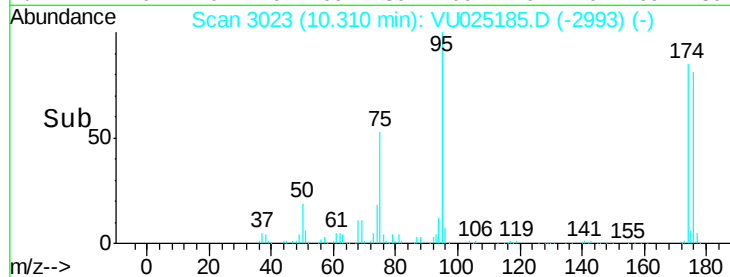
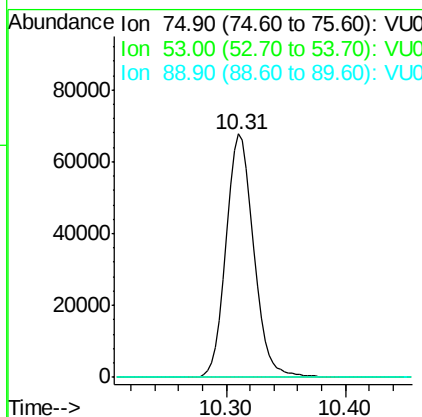
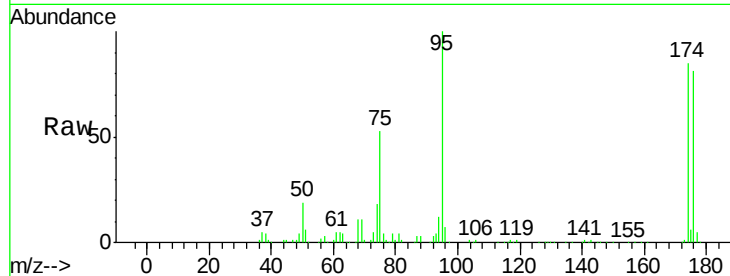




#81
trans-1,4-Dichloro-2-butene
Concen: 57.855 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

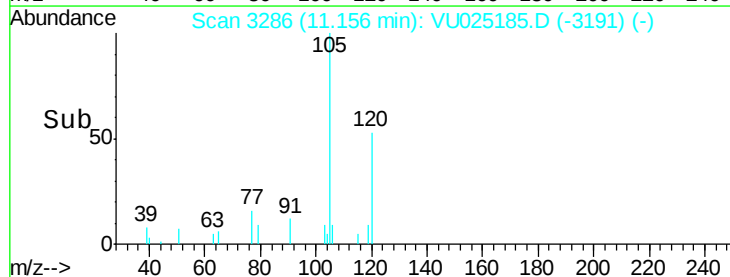
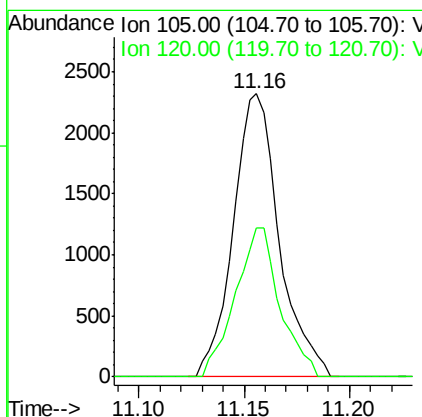
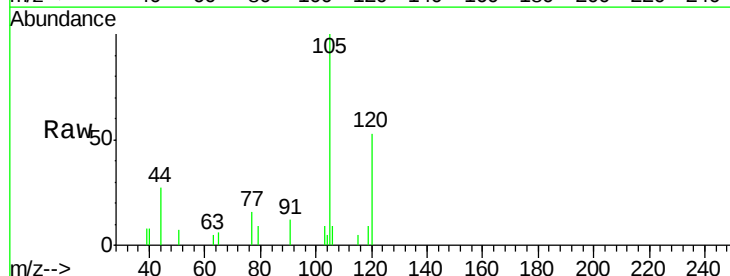
Instrument :
MSVOA_U
ClientSampleId :

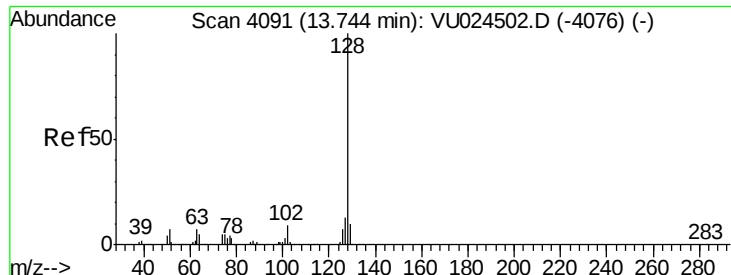
Tot Ion: 75 Resp: 109106
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#84
1,2,4-Trimethylbenzene
Concen: 0.261 ug/l
RT: 11.16 min Scan# 3286
Delta R.T. 0.01 min
Lab File: VU025185.D
Acq: 03 Jul 2018 12:49

Tgt Ion:105 Resp: 3508
Ion Ratio Lower Upper
105 100
120 50.9 22.6 67.8





#95

Naphthalene

Concen: 1.048 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

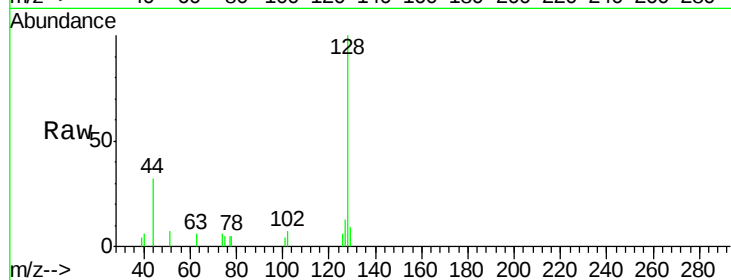
Lab File: VU025185.D

Acq: 03 Jul 2018 12:49

Instrument :

MSVOA_U

ClientSampleId :



Tot Ion:	128	Resp:	5443
Ion	Ratio	Lower	Upper
128	100		
127	9.4	10.6	16.0#
129	8.6	8.6	12.8

