

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U070218\
 Data File : VU025146.D
 Acq On : 02 Jul 2018 16:25
 Operator : MD/SY
 Sample : J3248-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EO-03-062818-A

Quant Time: Jul 03 03:00:07 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	206544	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	314231	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288714	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	151140	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	159412	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
35) Dibromofluoromethane	4.89	113	123294	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	7.57	98	449609	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
62) 4-Bromofluorobenzene	10.31	95	166560	44.10	ug/l	0.00
Spiked Amount			Recovery	=	88.20%	

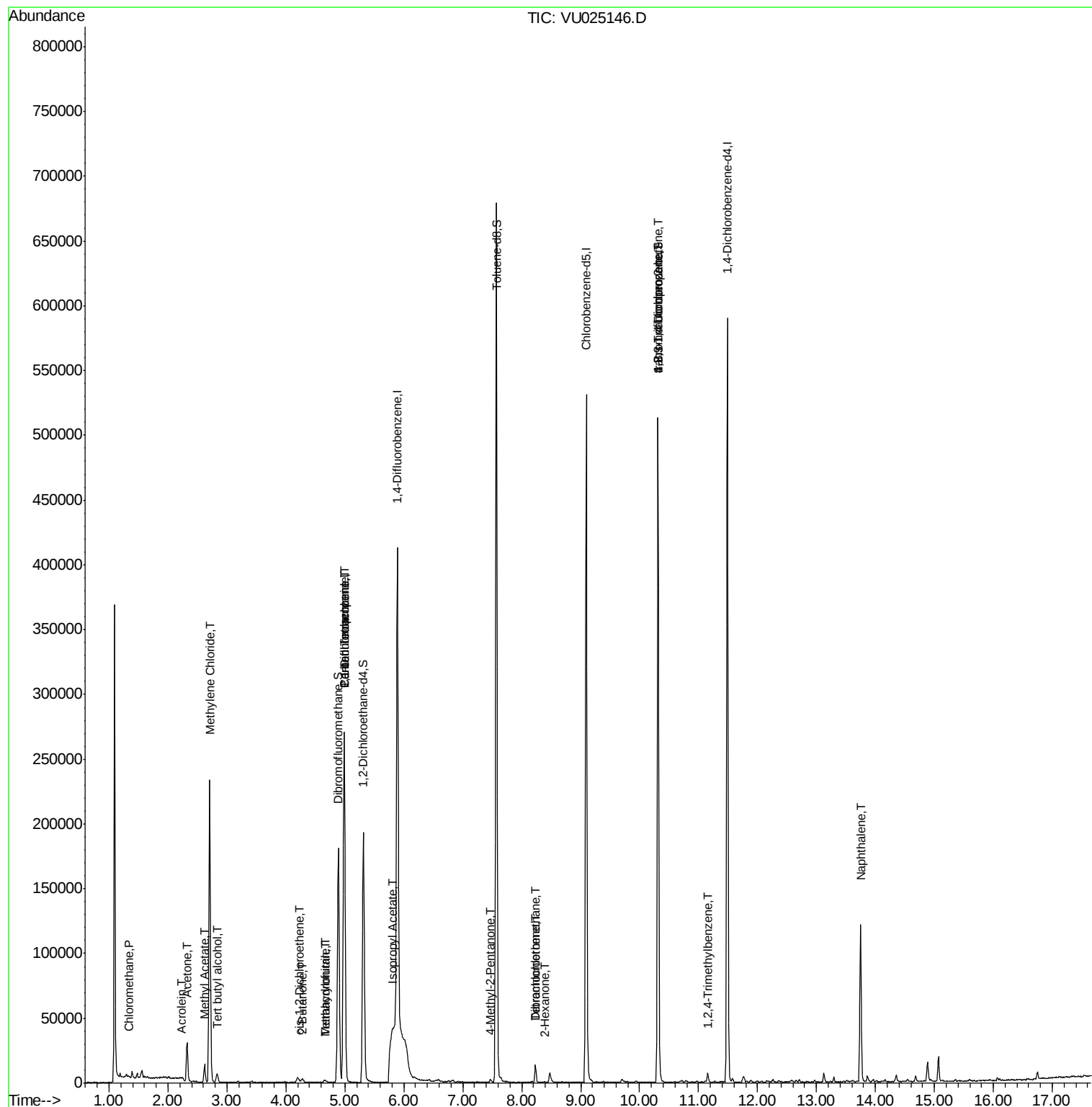
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	544	0.206	ug/l #	42
6) Chloroethane	1.68	64	348	Below Cal	#	43
8) Diethyl Ether	2.10	74	84	Below Cal	#	1
11) Tert butyl alcohol	2.83	59	6130	7.475	ug/l	96
13) Acrolein	2.21	56	167	0.388	ug/l #	81
16) Acetone	2.32	43	33467	18.473	ug/l	99
18) Methyl Acetate	2.62	43	16511	4.251	ug/l	99
20) Methylene Chloride	2.71	84	103585	36.439	ug/l	98
25) 2-Butanone	4.28	43	4965	2.040	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	630	0.212	ug/l	89
29) Tetrahydrofuran	4.65	42	619	0.411	ug/l #	54
31) Cyclohexane	4.99	56	3970	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15356	4.159	ug/l #	51
38) Carbon Tetrachloride	4.99	117	20007	4.927	ug/l #	16
41) Methacrylonitrile	4.65	41	737	0.340	ug/l #	51
43) Isopropyl Acetate	5.80	43	44558	6.405	ug/l #	63
51) 4-Methyl-2-Pentanone	7.46	43	2314	0.529	ug/l #	74
59) 2-Hexanone	8.38	43	896	0.251	ug/l #	26
60) Dibromochloromethane	8.23	129	2731	0.796	ug/l #	11
64) Tetrachloroethene	8.23	164	2667	0.972	ug/l	95
76) 1,2,3-Trichloropropane	10.31	75	85928	25.823	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	85928	59.766	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	3174	0.310	ug/l	88
95) Naphthalene	13.75	128	97732	9.354	ug/l	99

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

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Quant Time: Jul 03 03:00:07 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

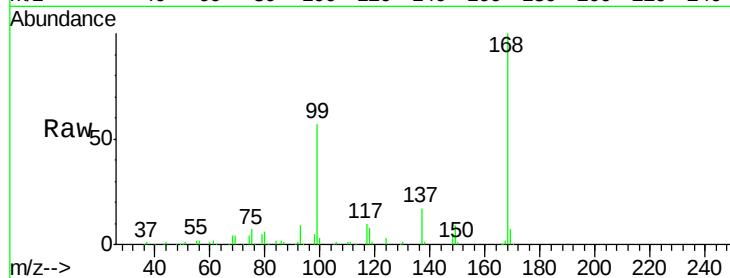
EO-03-062818-A

Tot Ion:168 Resp: 206544

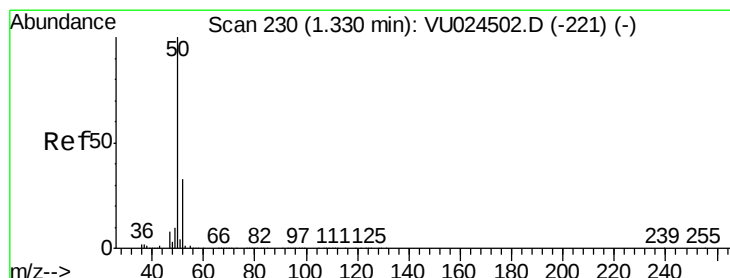
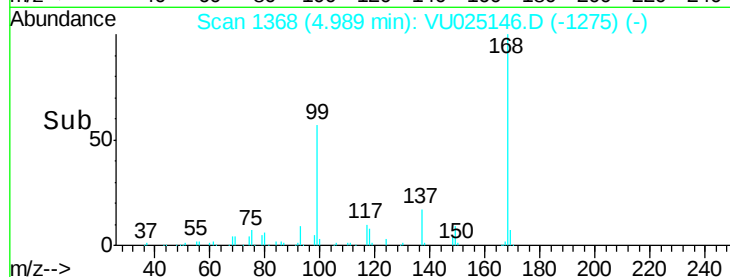
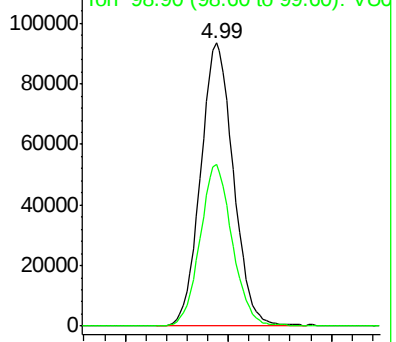
Ion Ratio Lower Upper

168 100

99 57.0 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025146.D (-1275) (-)



#3

Chloromethane

Concen: 0.206 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025146.D

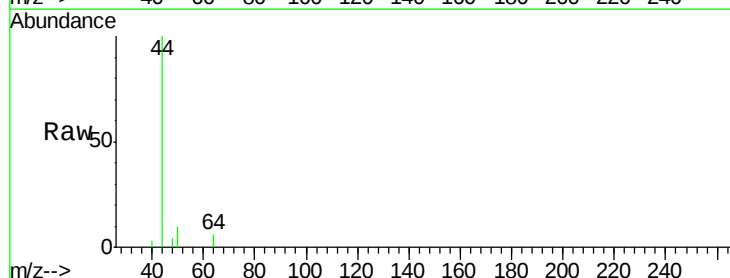
Acq: 02 Jul 2018 16:25

Tgt Ion: 50 Resp: 544

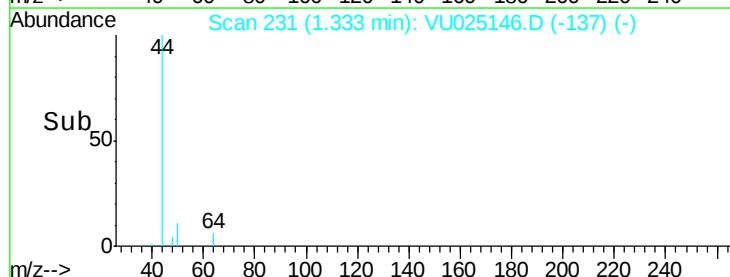
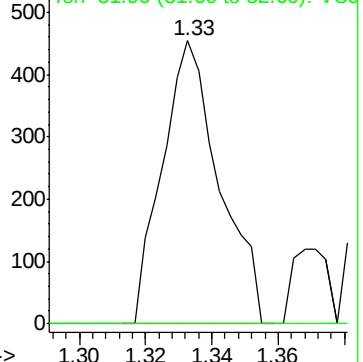
Ion Ratio Lower Upper

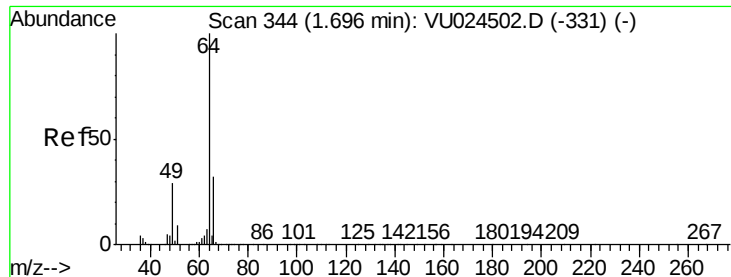
50 100

52 0.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU025146.D (-137) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 340

Delta R.T. -0.01 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

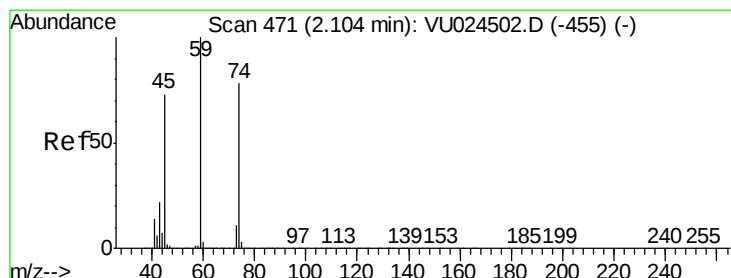
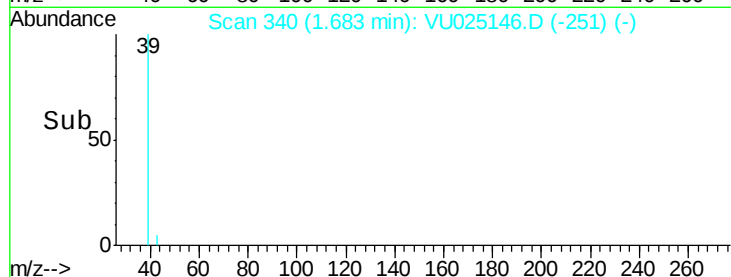
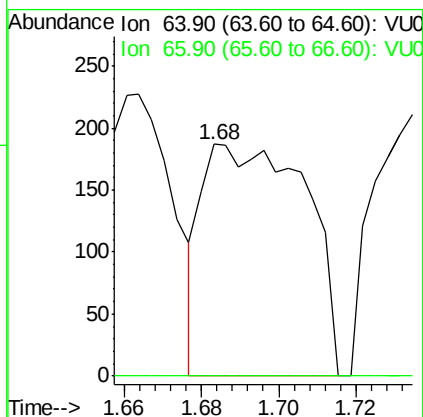
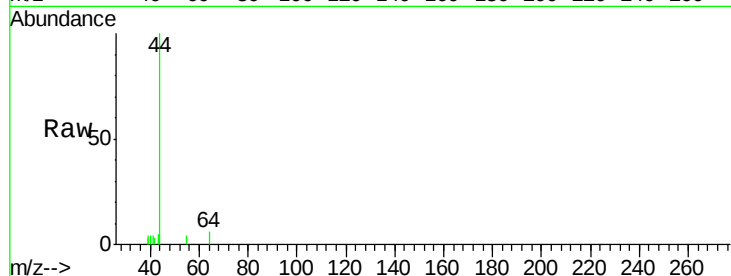
EO-03-062818-A

Tot Ion: 64 Resp: 348

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.10 min Scan# 469

Delta R.T. -0.01 min

Lab File: VU025146.D

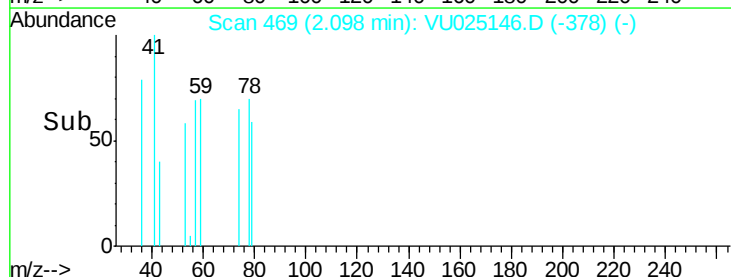
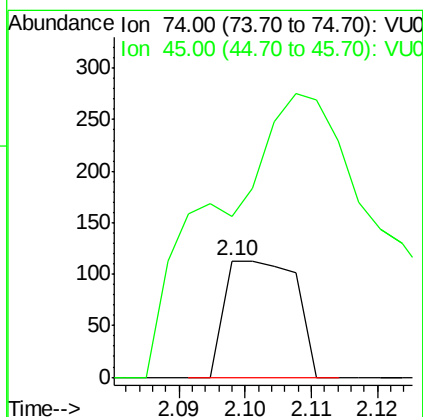
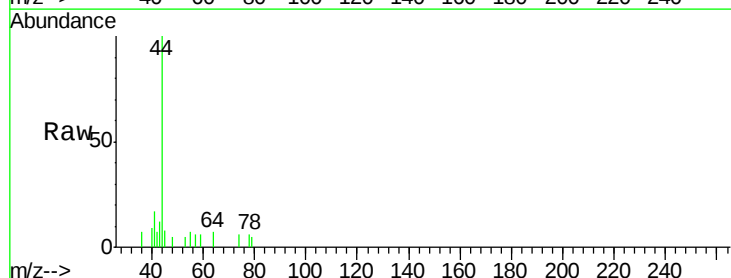
Acq: 02 Jul 2018 16:25

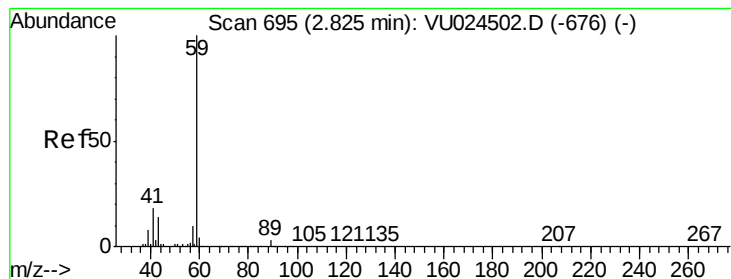
Tgt Ion: 74 Resp: 84

Ion Ratio Lower Upper

74 100

45 540.5 55.0 165.0#



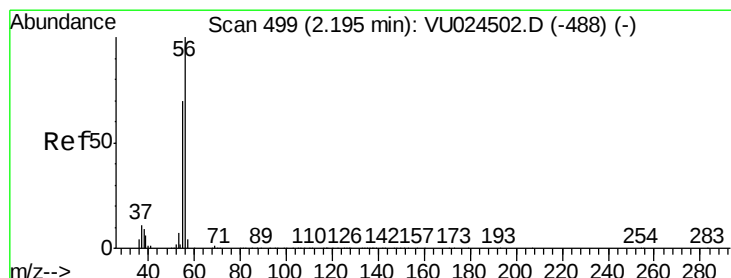
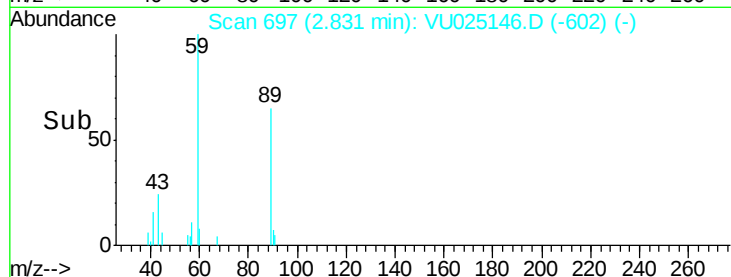
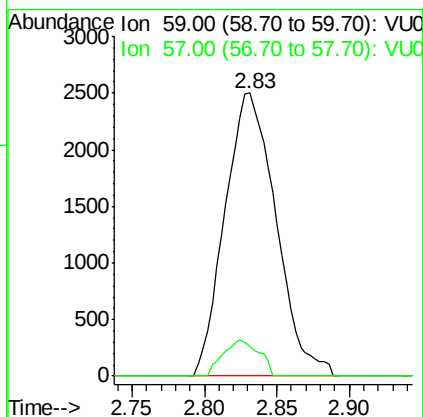
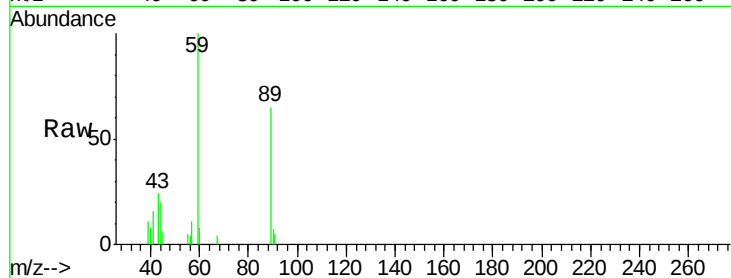


#11

Tert butyl alcohol
 Concen: 7.475 ug/l
 RT: 2.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VU025146.D
 Acq: 02 Jul 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 EO-03-062818-A

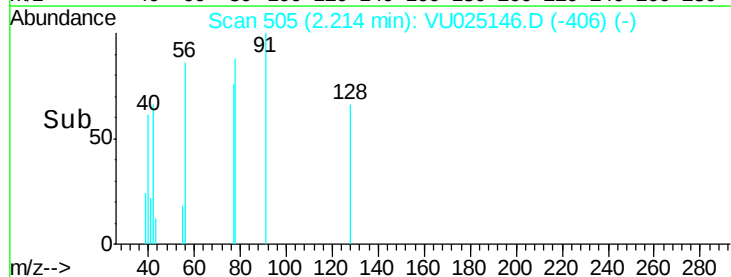
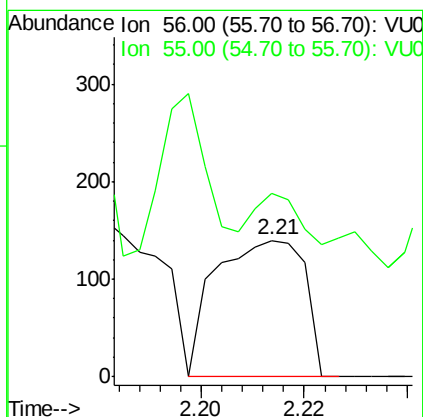
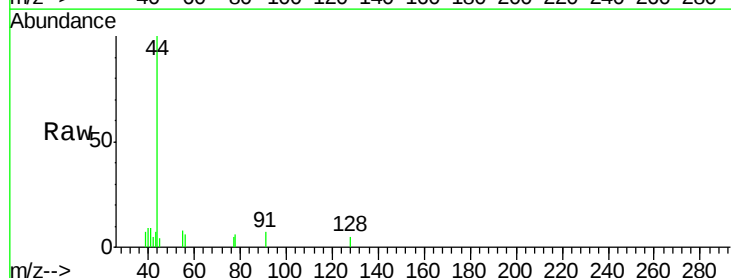
Tot Ion: 59 Resp: 6130
 Ion Ratio Lower Upper
 59 100
 57 8.9 8.5 12.7

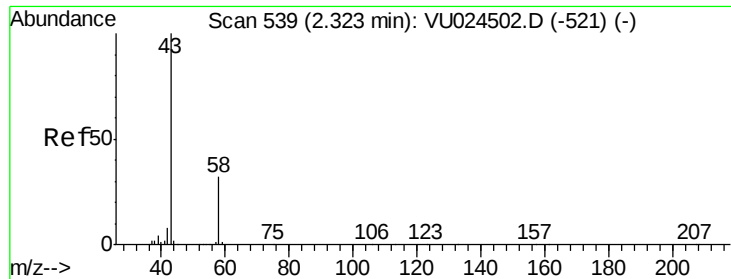


#13

Acrolein
 Concen: 0.388 ug/l
 RT: 2.21 min Scan# 505
 Delta R.T. 0.02 min
 Lab File: VU025146.D
 Acq: 02 Jul 2018 16:25

Tgt Ion: 56 Resp: 167
 Ion Ratio Lower Upper
 56 100
 55 56.9 58.4 87.6#





#16

Acetone

Concen: 18.473 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

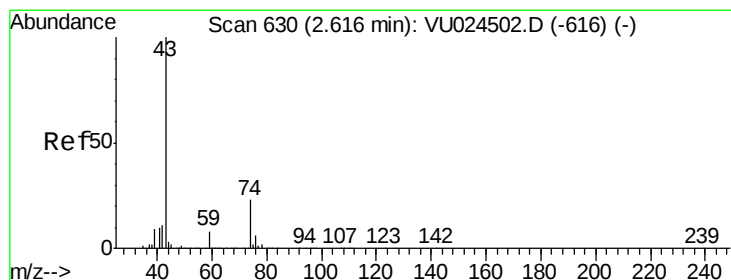
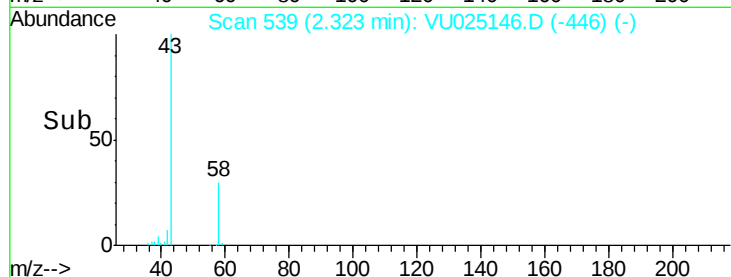
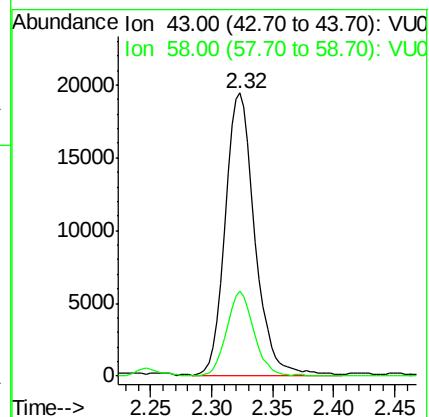
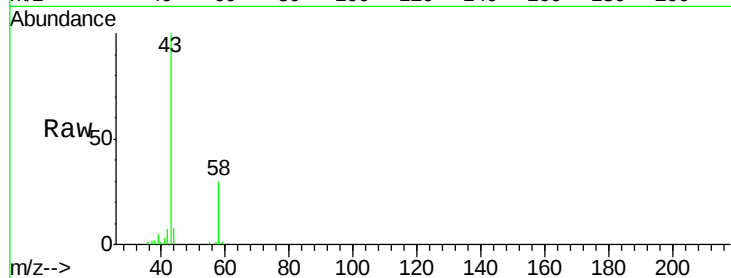
EO-03-062818-A

Tot Ion: 43 Resp: 33467

Ion Ratio Lower Upper

43 100

58 30.1 24.4 36.6



#18

Methyl Acetate

Concen: 4.251 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025146.D

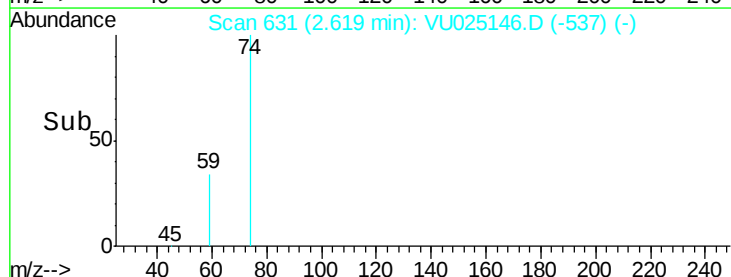
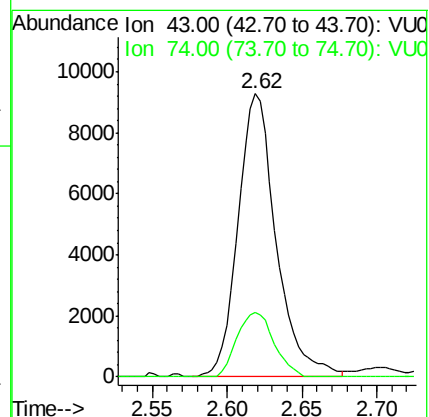
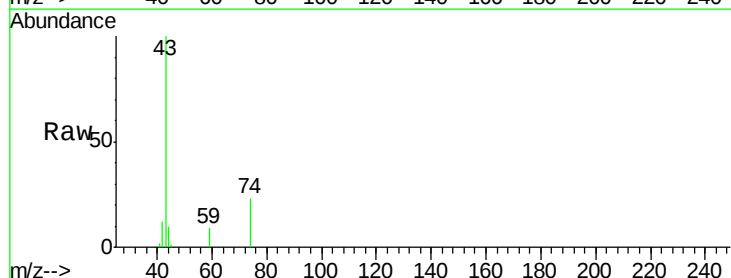
Acq: 02 Jul 2018 16:25

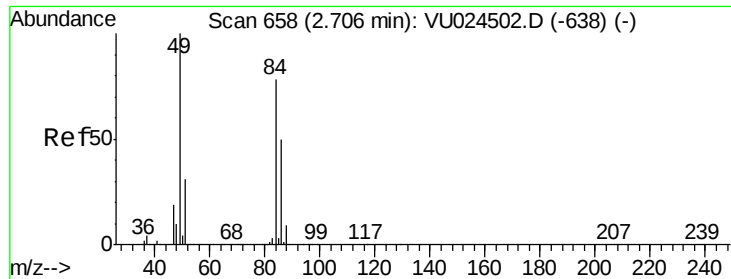
Tgt Ion: 43 Resp: 16511

Ion Ratio Lower Upper

43 100

74 22.1 18.0 27.0

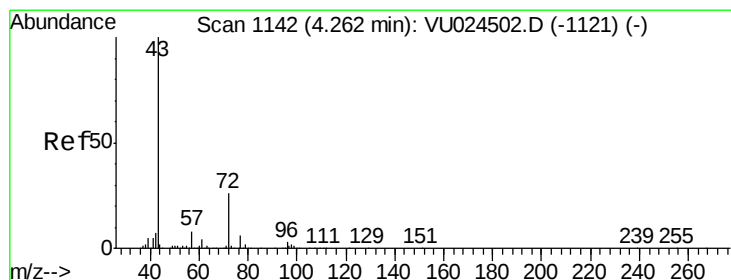
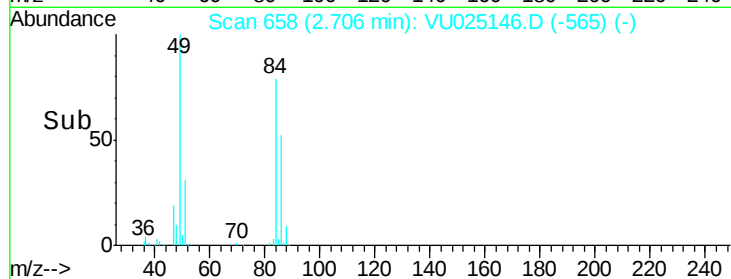
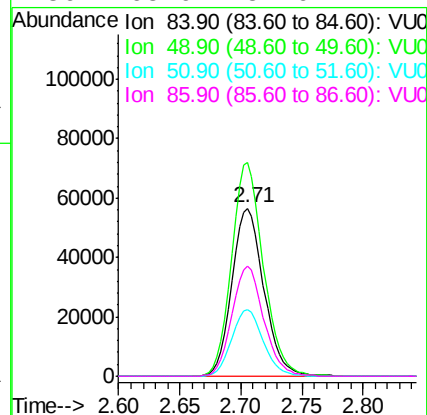
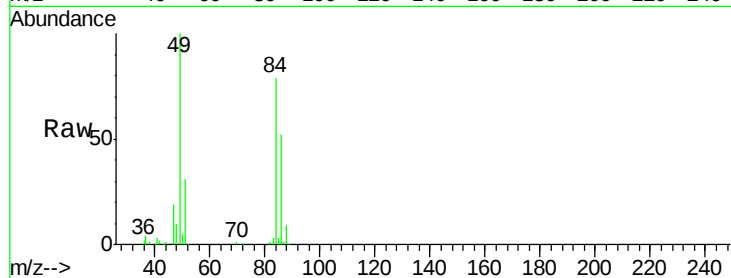




#20
Methvlene Chloride
Concen: 36.439 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

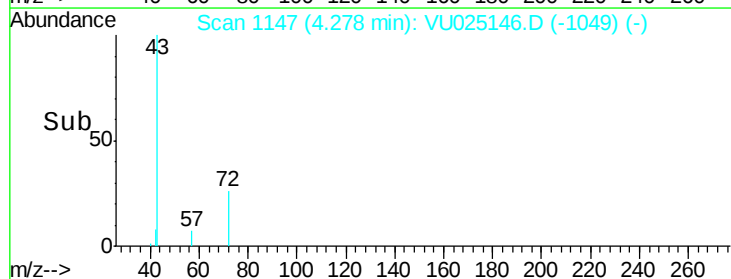
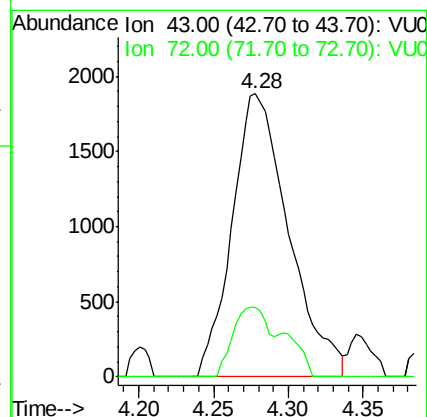
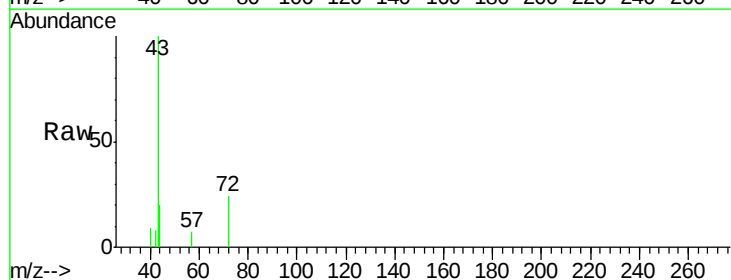
Instrument :
MSVOA_U
ClientSampleId :
EO-03-062818-A

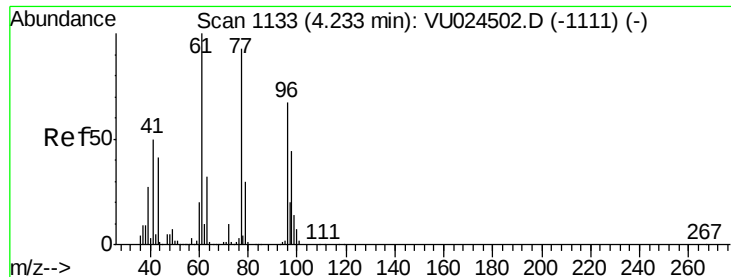
Tot Ion: 84 Resp: 103585
Ion Ratio Lower Upper
84 100
49 127.3 103.8 155.8
51 40.0 32.0 48.0
86 65.9 51.6 77.4



#25
2-Butanone
Concen: 2.040 ug/l
RT: 4.28 min Scan# 1147
Delta R.T. 0.02 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

Tgt Ion: 43 Resp: 4965
Ion Ratio Lower Upper
43 100
72 24.5 19.6 29.4





#27

cis-1,2-Dichloroethene

Concen: 0.212 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-A

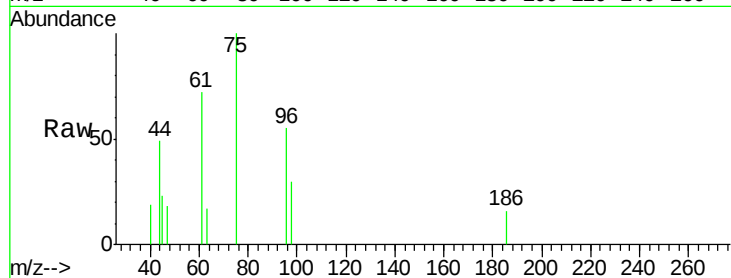
Tot Ion: 96 Resp: 630

Ion Ratio Lower Upper

96 100

61 160.3 0.0 306.6

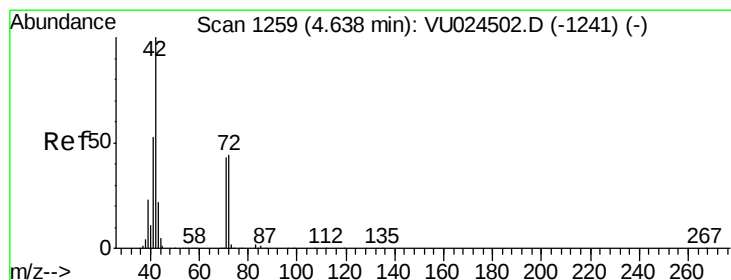
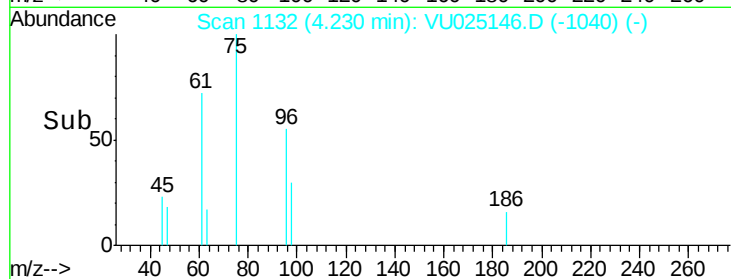
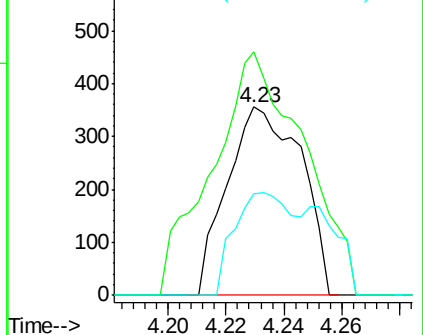
98 44.1 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#29

Tetrahydrofuran

Concen: 0.411 ug/l

RT: 4.65 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

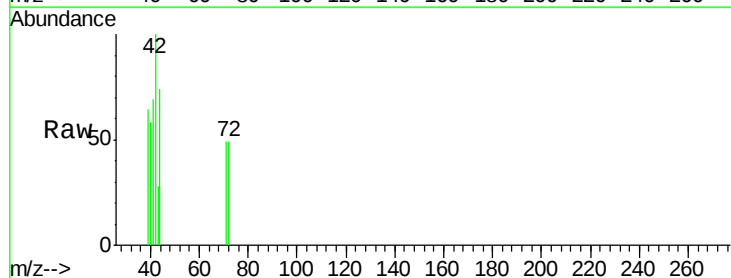
Tgt Ion: 42 Resp: 619

Ion Ratio Lower Upper

42 100

72 70.9 34.5 51.7#

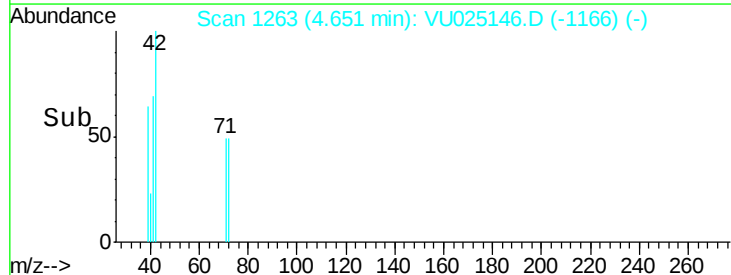
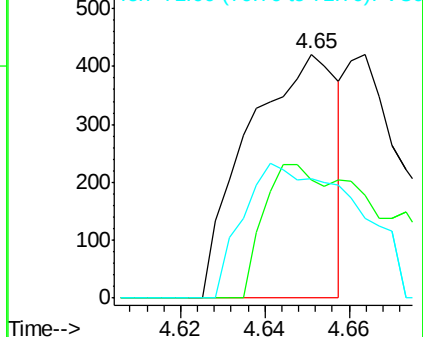
71 70.1 32.2 48.4#

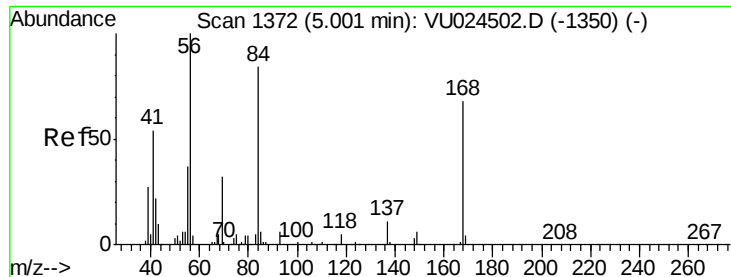


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

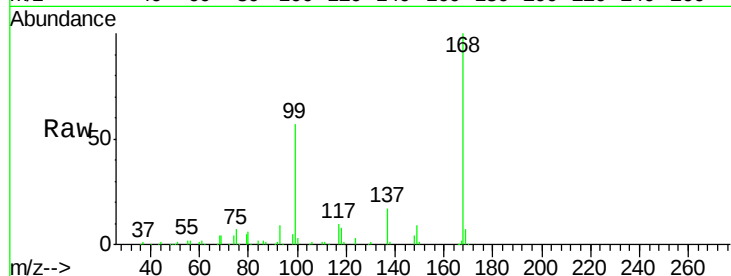




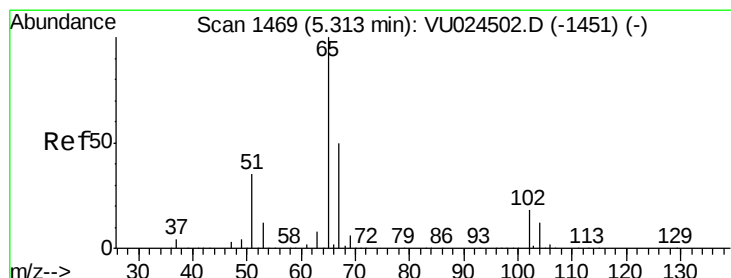
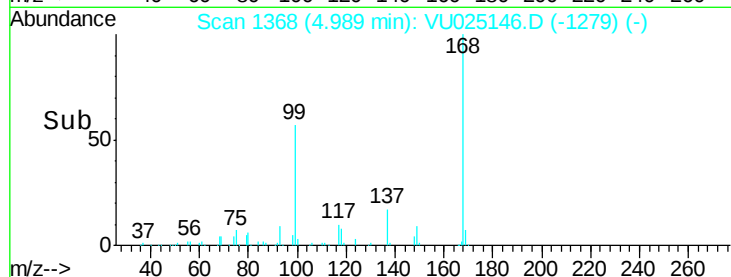
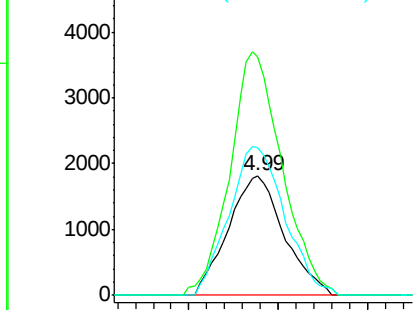
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
EO-03-062818-A

Tot Ion: 56 Resp: 3970
Ion Ratio Lower Upper
56 100
69 199.2 24.8 37.2#
84 123.3 65.2 97.8#

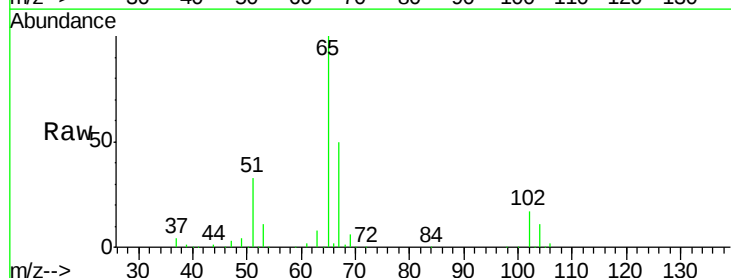


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

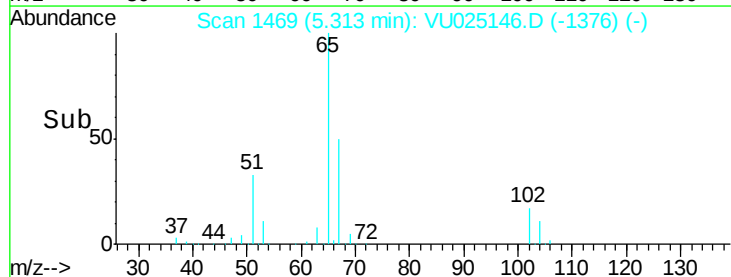
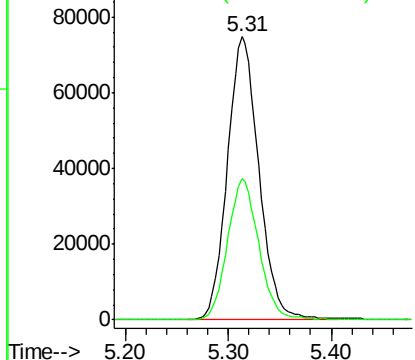


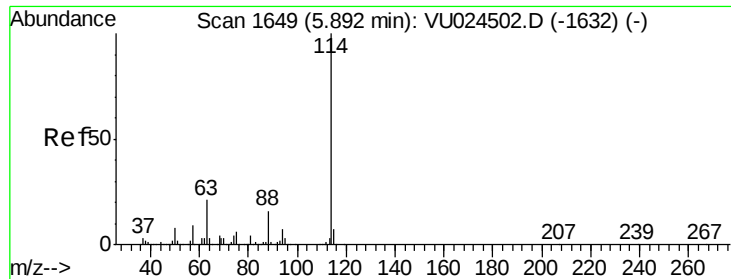
#33
1,2-Dichloroethane-d4
Concen: 47.277 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

Tgt Ion: 65 Resp: 159412
Ion Ratio Lower Upper
65 100
67 49.4 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: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-A

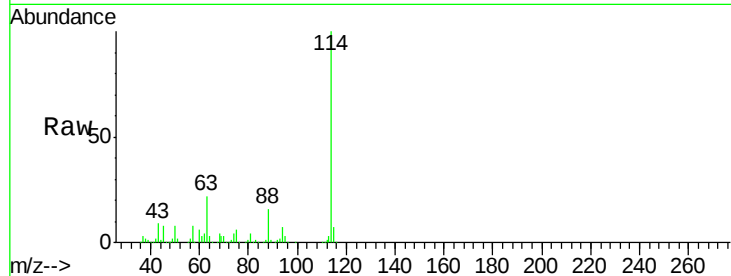
Tot Ion:114 Resp: 314231

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.4

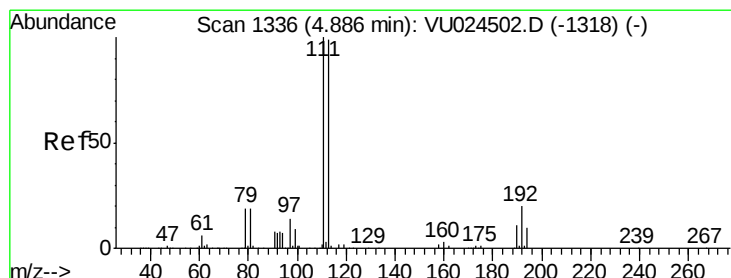
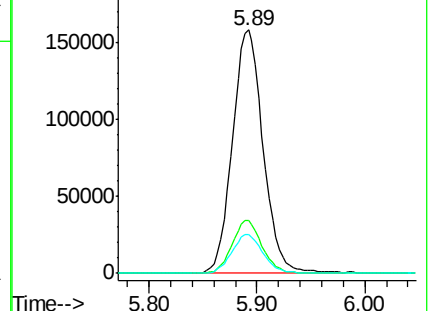
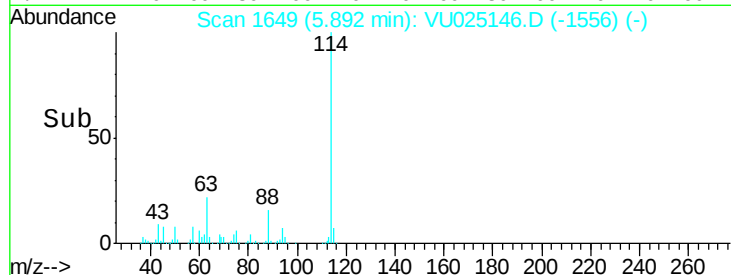
88 15.9 0.0 31.0



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: 47.278 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

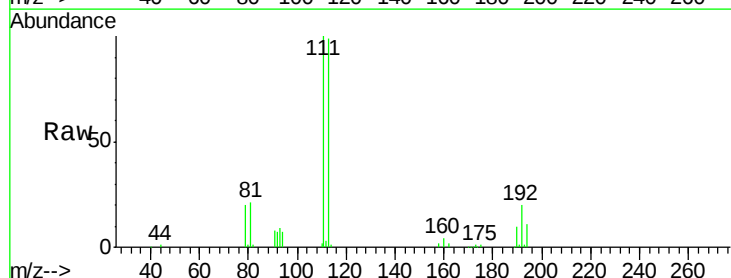
Tgt Ion:113 Resp: 123294

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.4

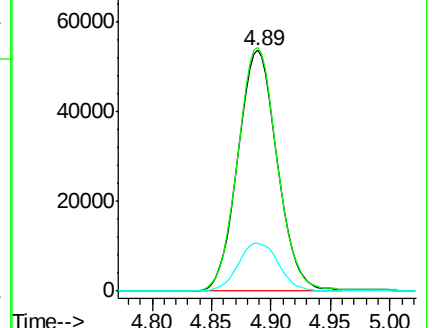
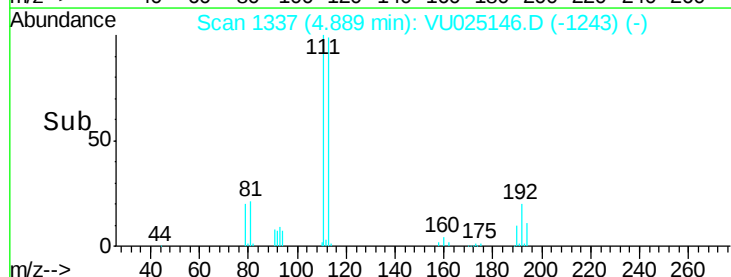
192 20.5 16.2 24.4

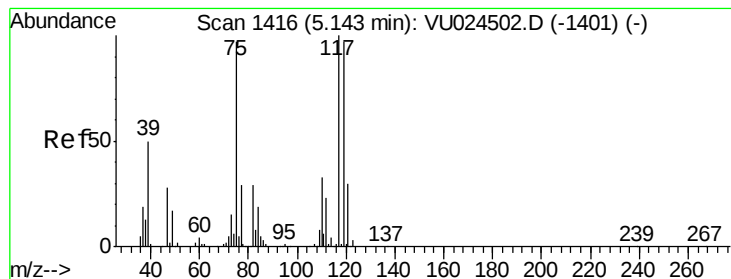


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.159 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-A

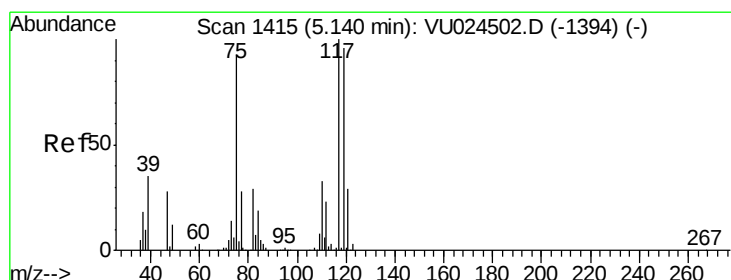
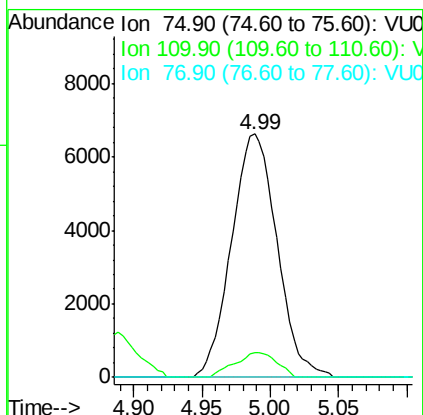
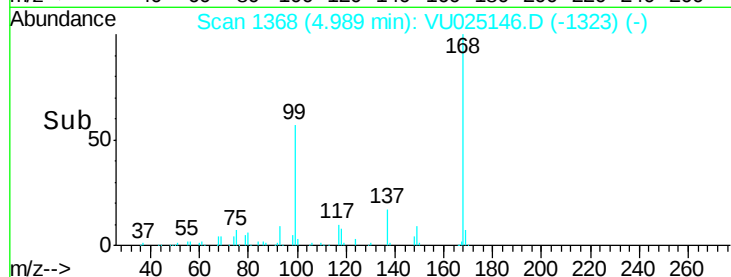
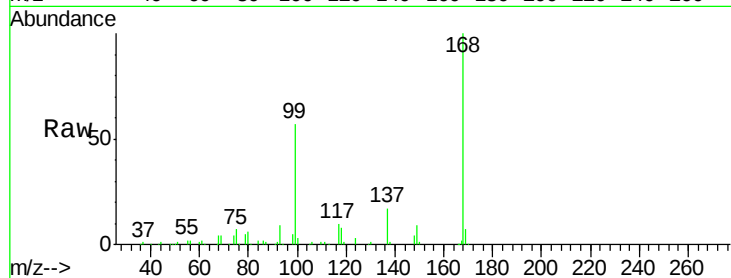
Tot Ion: 75 Resp: 15356

Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 4.927 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

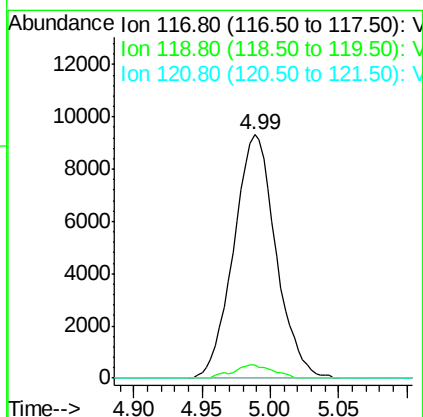
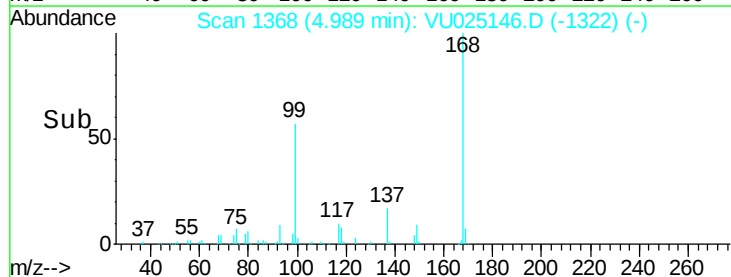
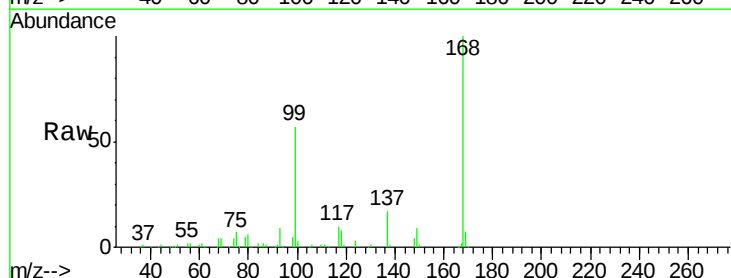
Tgt Ion: 117 Resp: 20007

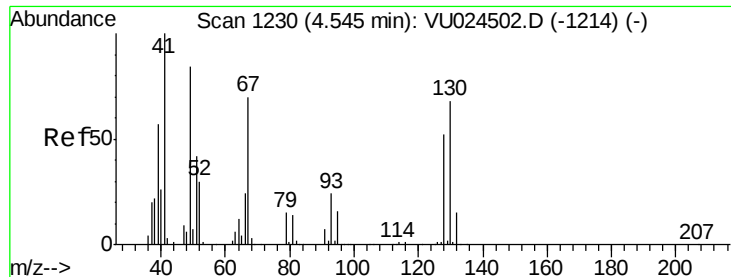
Ion Ratio Lower Upper

117 100

119 5.2 76.1 114.1#

121 0.0 23.7 35.5#

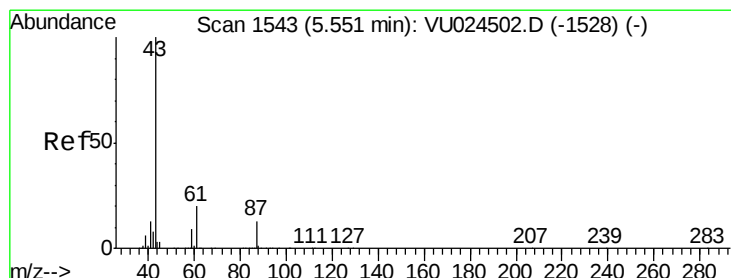
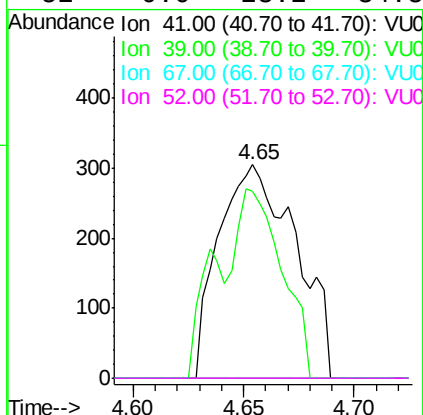
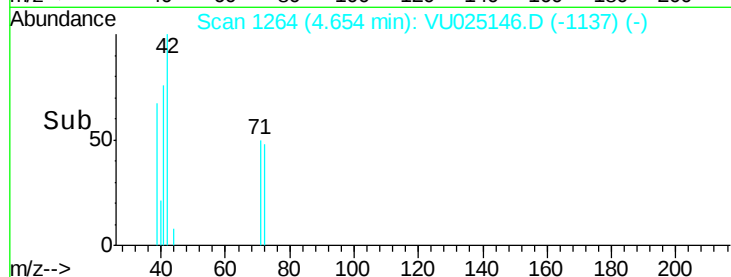
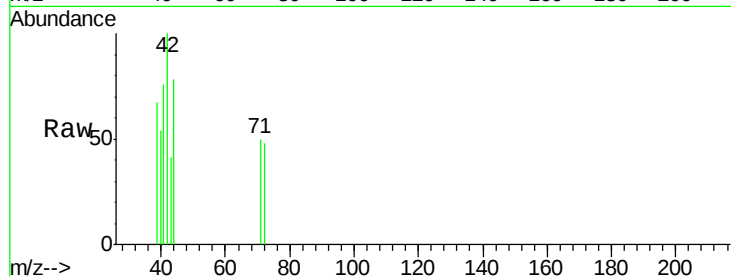




#41
Methacrylonitrile
Concen: 0.340 ug/l
RT: 4.65 min Scan# 1264
Delta R.T. 0.11 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

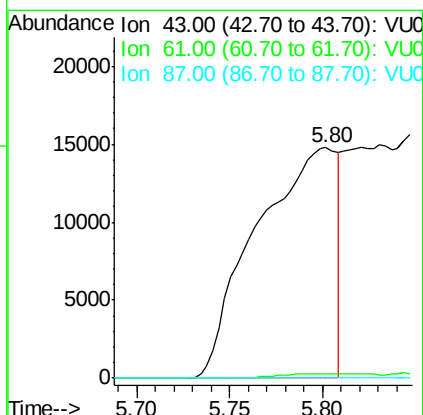
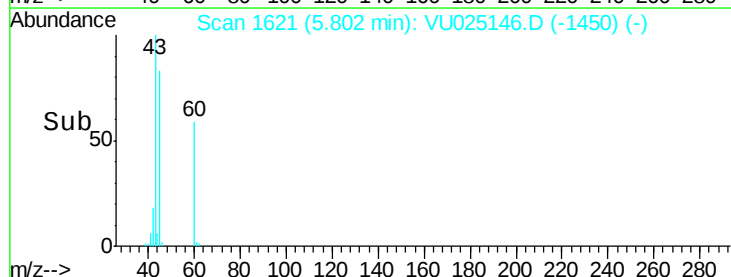
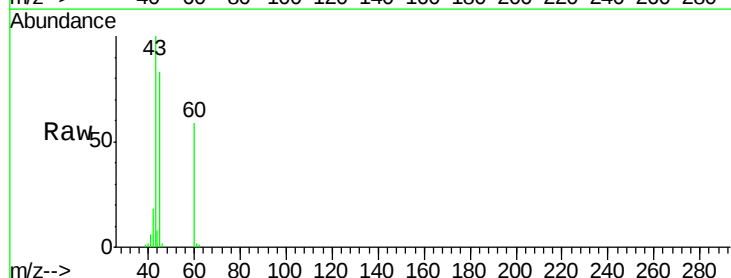
Instrument :
MSVOA_U
ClientSampleId :
EO-03-062818-A

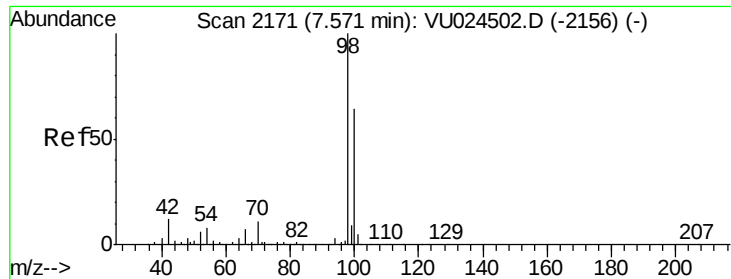
Tot Ion: 41 Resp: 737
Ion Ratio Lower Upper
41 100
39 54.4 43.8 65.6
67 0.0 56.3 84.5#
52 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 6.405 ug/l
RT: 5.80 min Scan# 1621
Delta R.T. 0.25 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

Tgt Ion: 43 Resp: 44558
Ion Ratio Lower Upper
43 100
61 1.1 15.4 23.0#
87 0.0 10.0 15.0#





#50

Toluene-d8

Concen: 47.265 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

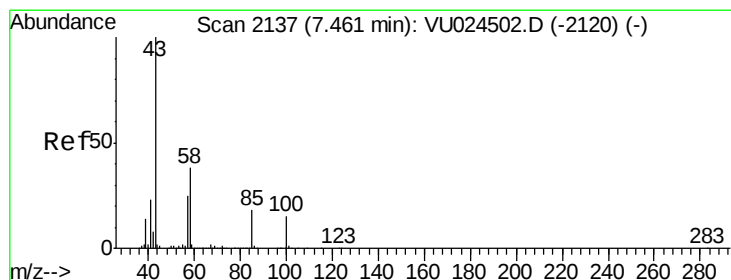
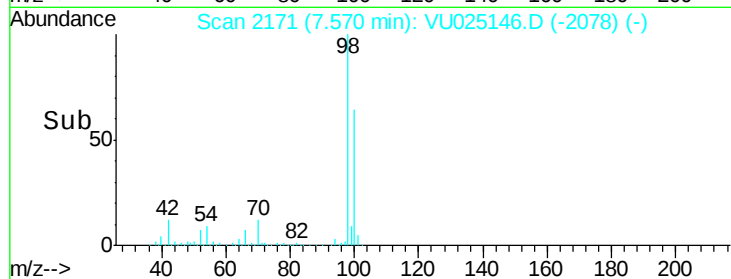
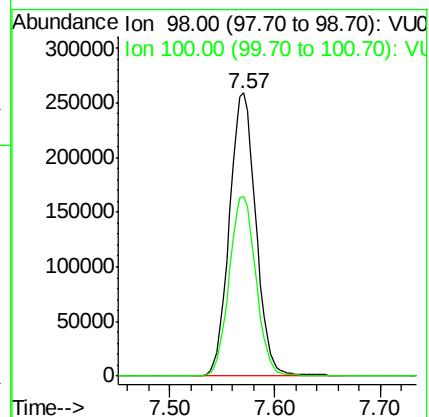
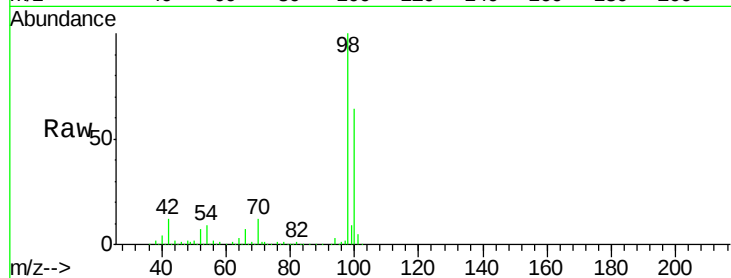
EO-03-062818-A

Tot Ion: 98 Resp: 449609

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.529 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU025146.D

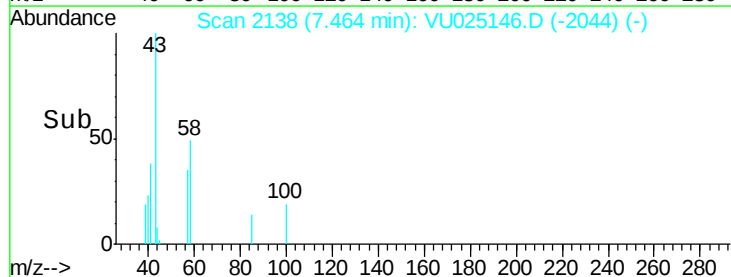
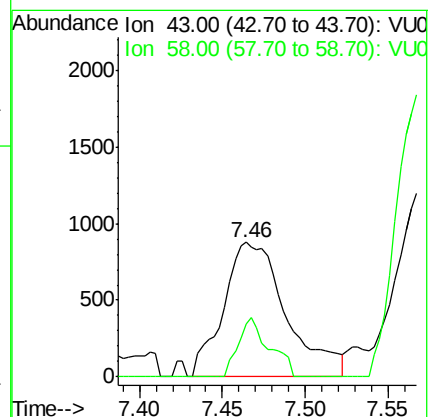
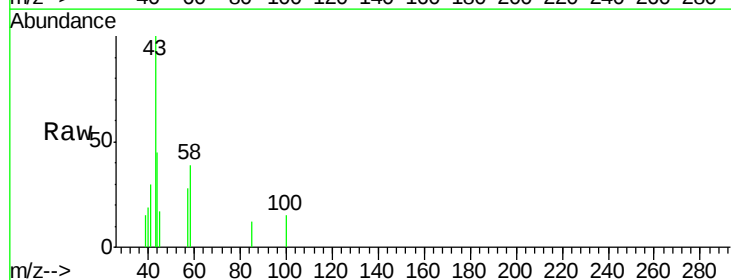
Acq: 02 Jul 2018 16:25

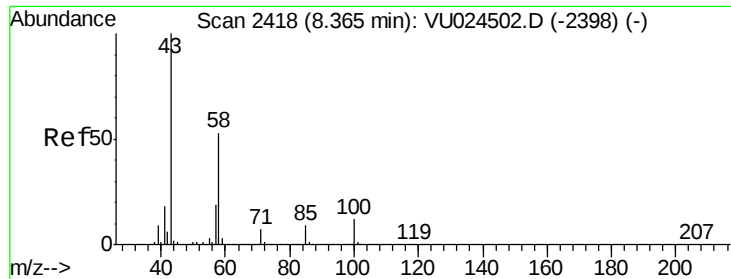
Tgt Ion: 43 Resp: 2314

Ion Ratio Lower Upper

43 100

58 21.9 30.0 45.0#

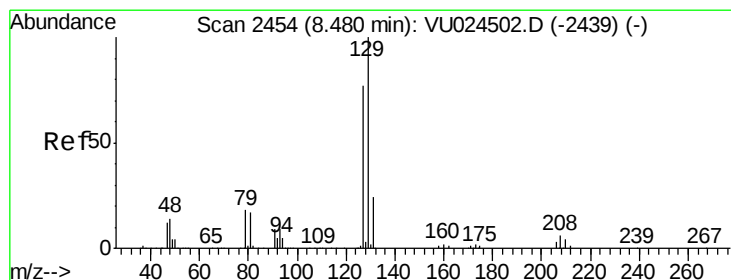
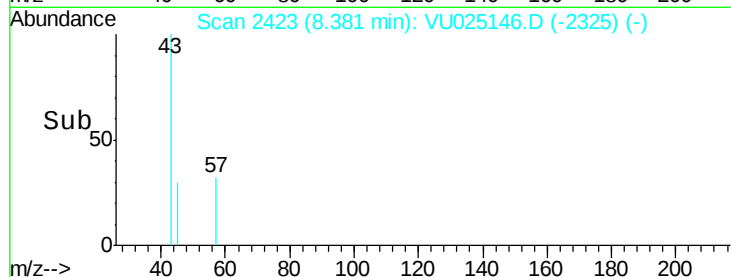
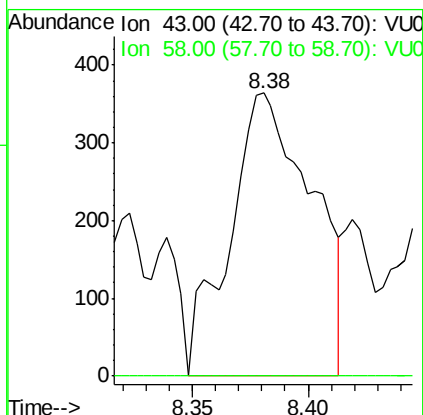
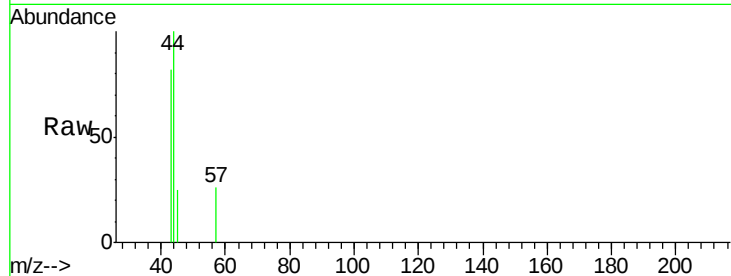




#59
2-Hexanone
Concen: 0.251 ug/l
RT: 8.38 min Scan# 2423
Delta R.T. 0.02 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

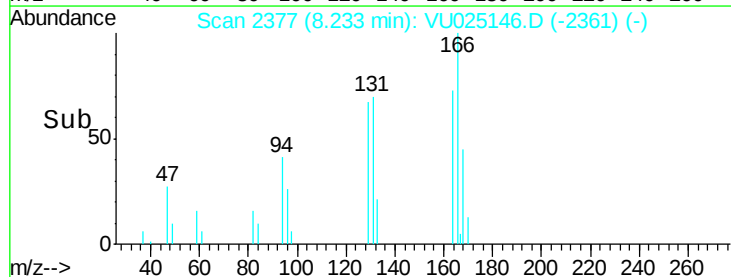
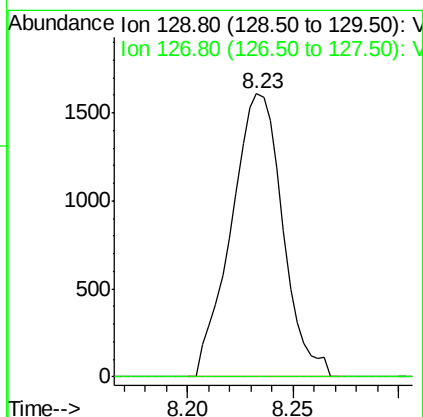
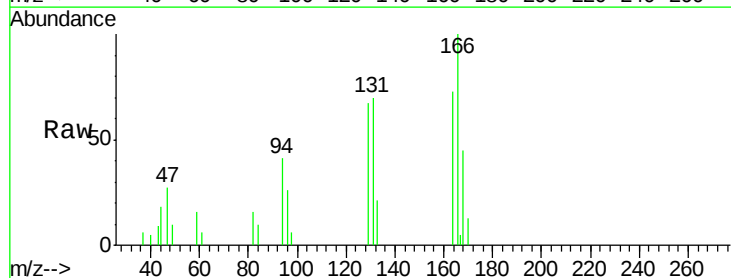
Instrument :
MSVOA_U
ClientSampleId :
EO-03-062818-A

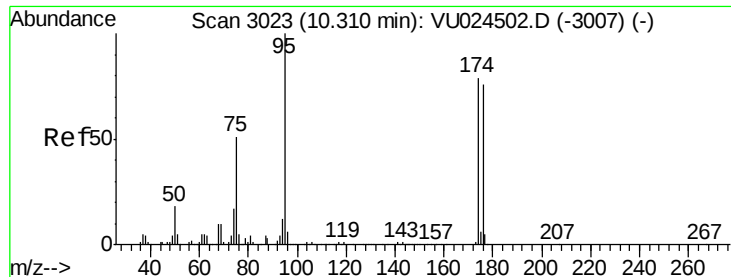
Tot Ion: 43 Resp: 896
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.0#



#60
Dibromochloromethane
Concen: 0.796 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. -0.25 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

Tgt Ion: 129 Resp: 2731
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 44.100 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-A

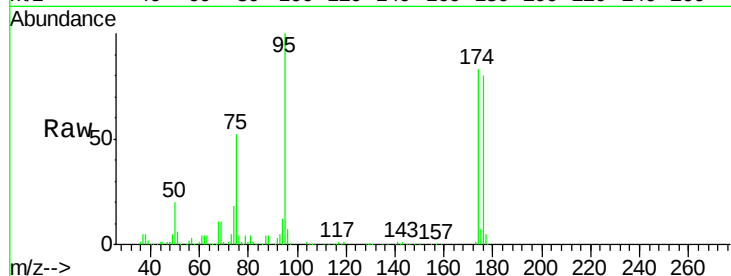
Tot Ion: 95 Resp: 166560

Ion Ratio Lower Upper

95 100

174 83.9 0.0 165.8

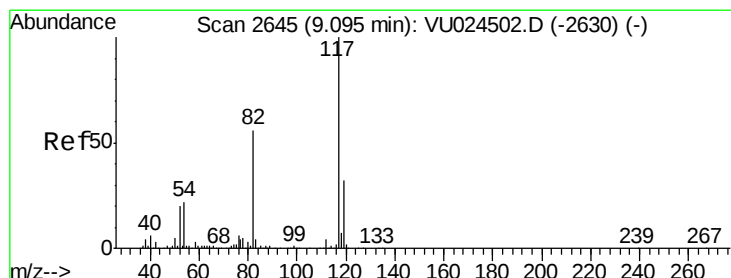
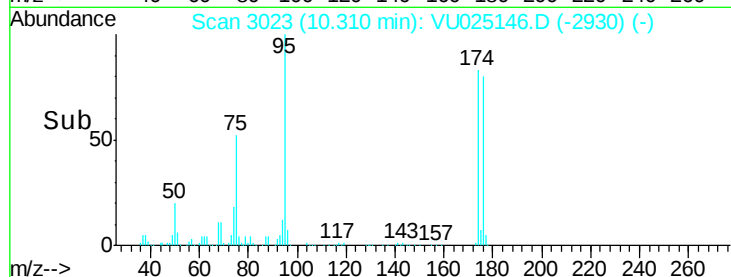
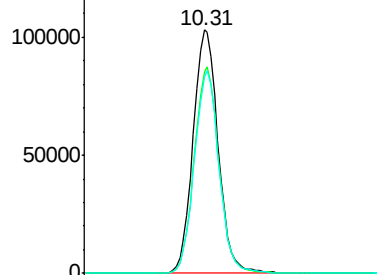
176 82.1 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU025146.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025146.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025146.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

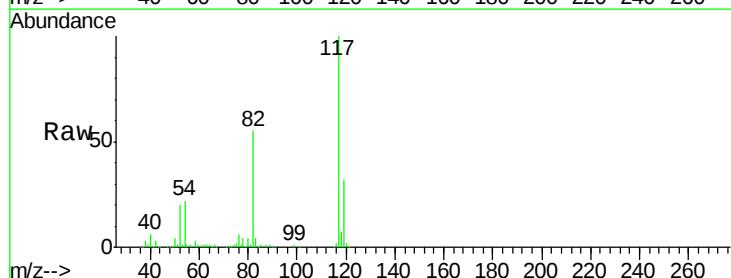
Tgt Ion: 117 Resp: 288714

Ion Ratio Lower Upper

117 100

82 54.8 44.3 66.5

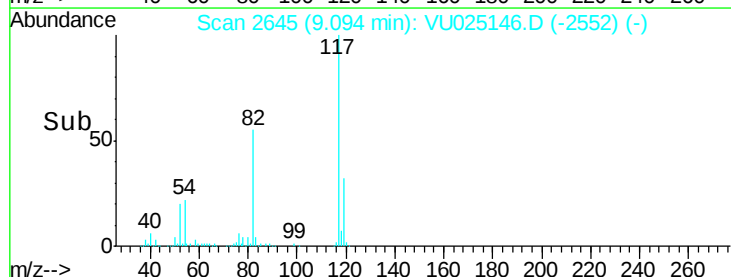
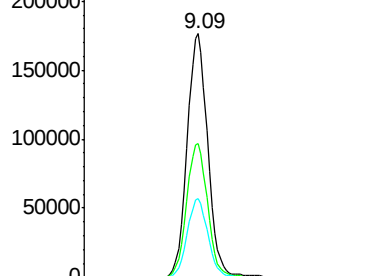
119 32.2 25.4 38.2

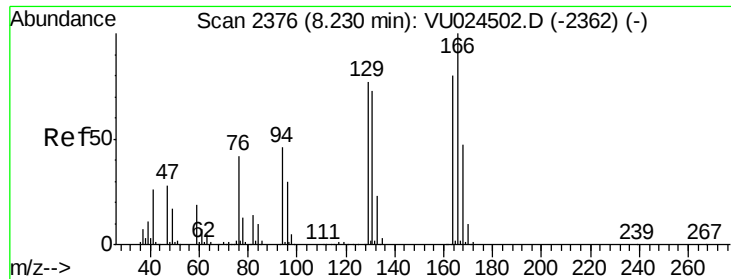


Abundance Ion 116.90 (116.60 to 117.60): VU025146.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU025146.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU025146.D (-2552) (-)

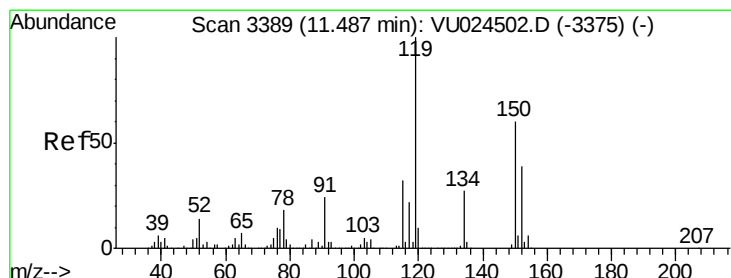
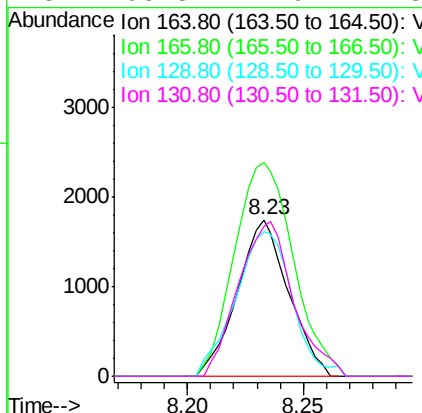
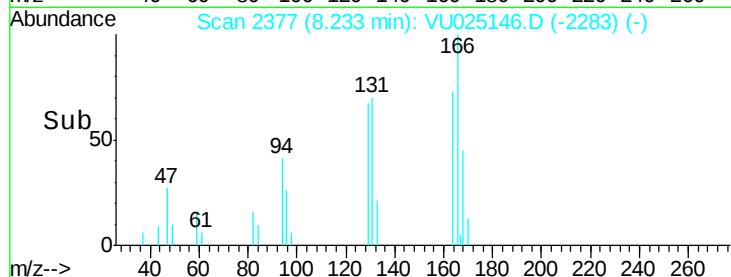
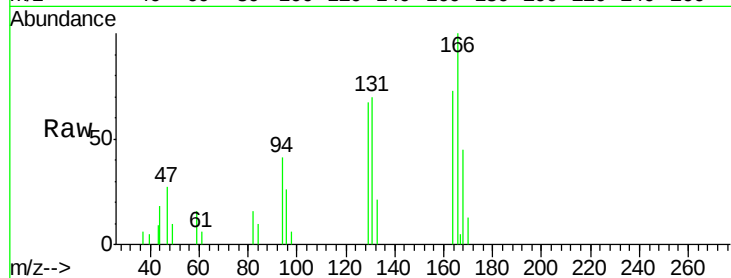




#64
Tetrachloroethene
Concen: 0.972 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

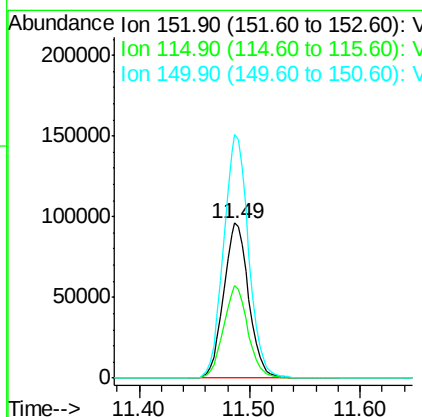
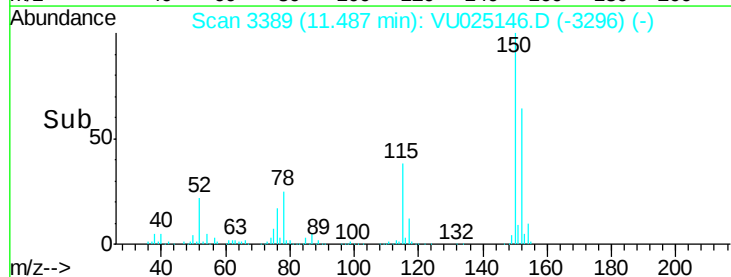
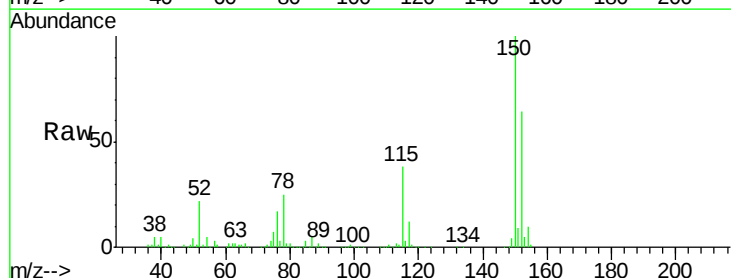
Instrument :
MSVOA_U
ClientSampleId :
EO-03-062818-A

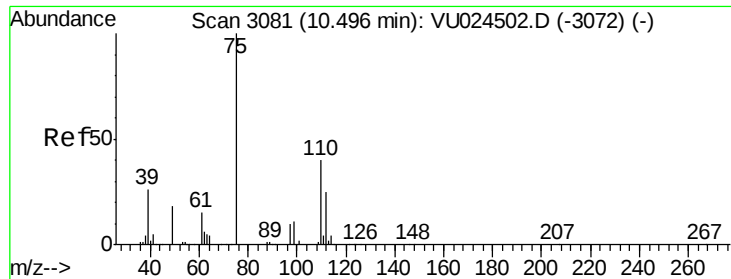
Tot Ion:164 Resp: 2667
Ion Ratio Lower Upper
164 100
166 136.6 101.7 152.5
129 92.1 76.9 115.3
131 95.8 74.9 112.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025146.D
Acq: 02 Jul 2018 16:25

Tgt Ion:152 Resp: 151140
Ion Ratio Lower Upper
152 100
115 57.8 43.0 129.0
150 156.0 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 25.823 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

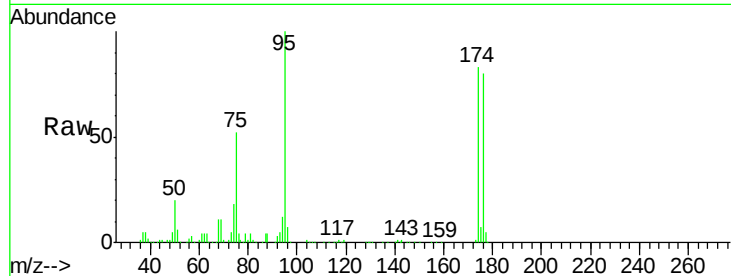
EO-03-062818-A

Tot Ion: 75 Resp: 85928

Ion Ratio Lower Upper

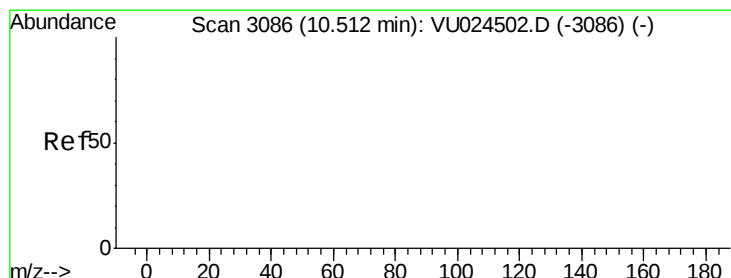
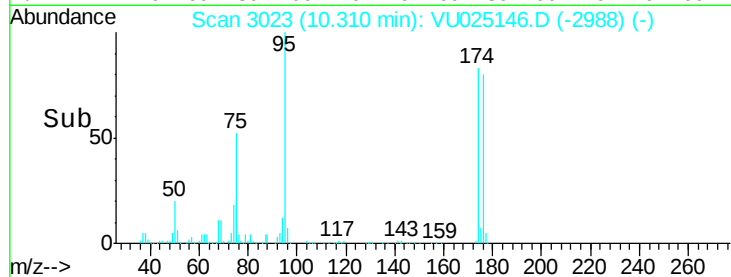
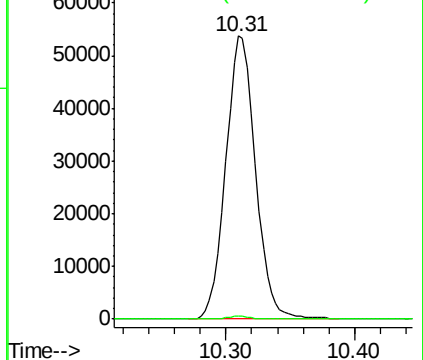
75 100

77 0.8 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: 59.766 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025146.D

Acq: 02 Jul 2018 16:25

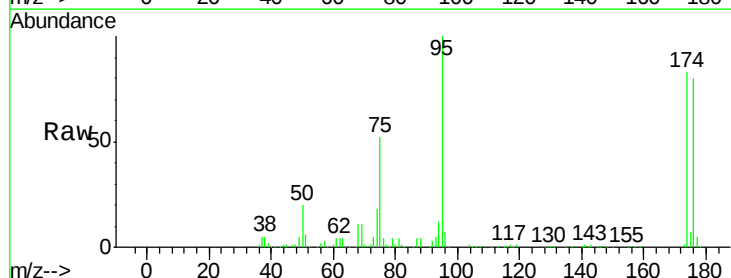
Tgt Ion: 75 Resp: 85928

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

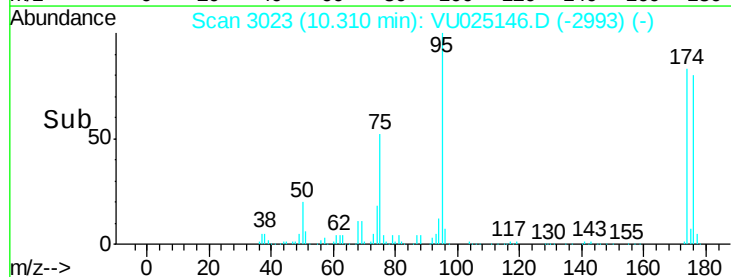
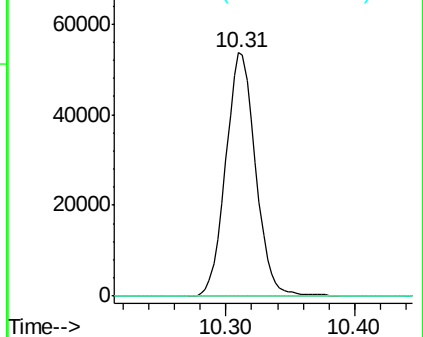
89 0.0 0.0 0.0

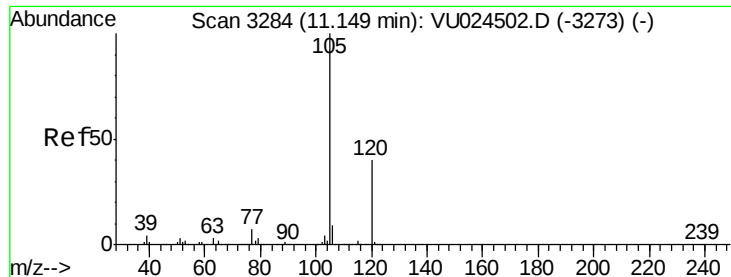


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

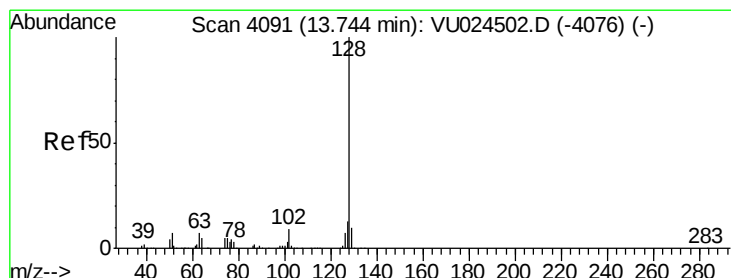
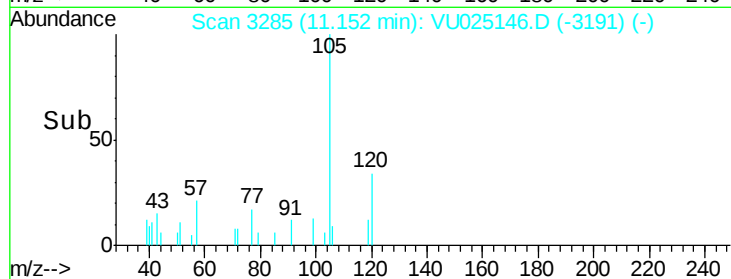
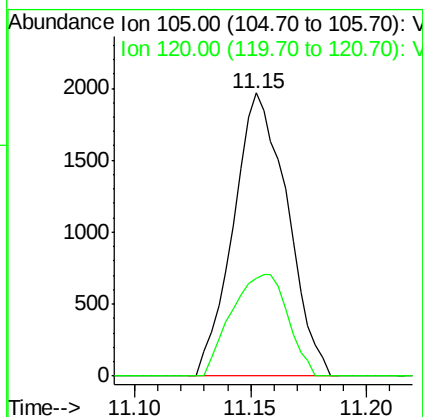
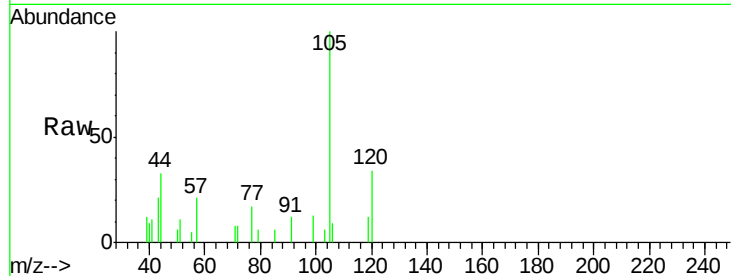




#84
 1,2,4-Trimethylbenzene
 Concen: 0.310 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. 0.00 min
 Lab File: VU025146.D
 Acq: 02 Jul 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 EO-03-062818-A

Tot Ion:105 Resp: 3174
 Ion Ratio Lower Upper
 105 100
 120 37.5 22.6 67.8



#95
 Naphthalene
 Concen: 9.354 ug/l
 RT: 13.75 min Scan# 4092
 Delta R.T. 0.00 min
 Lab File: VU025146.D
 Acq: 02 Jul 2018 16:25

Tgt Ion:128 Resp: 97732
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.6 16.0
 129 11.3 8.6 12.8

