

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091818\
 Data File : VX004667.D
 Acq On : 18 Sep 2018 19:23
 Operator : JC/MD
 Sample : J4940-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

Quant Time: Sep 19 02:39:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	389063	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	350169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198359	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	144519	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	
35) Dibromofluoromethane	5.51	113	141967	39.88	ug/l	0.00
Spiked Amount			Recovery	=	79.76%	
50) Toluene-d8	8.71	98	513430	43.00	ug/l	0.00
Spiked Amount			Recovery	=	86.00%	
62) 4-Bromofluorobenzene	11.14	95	187226	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	

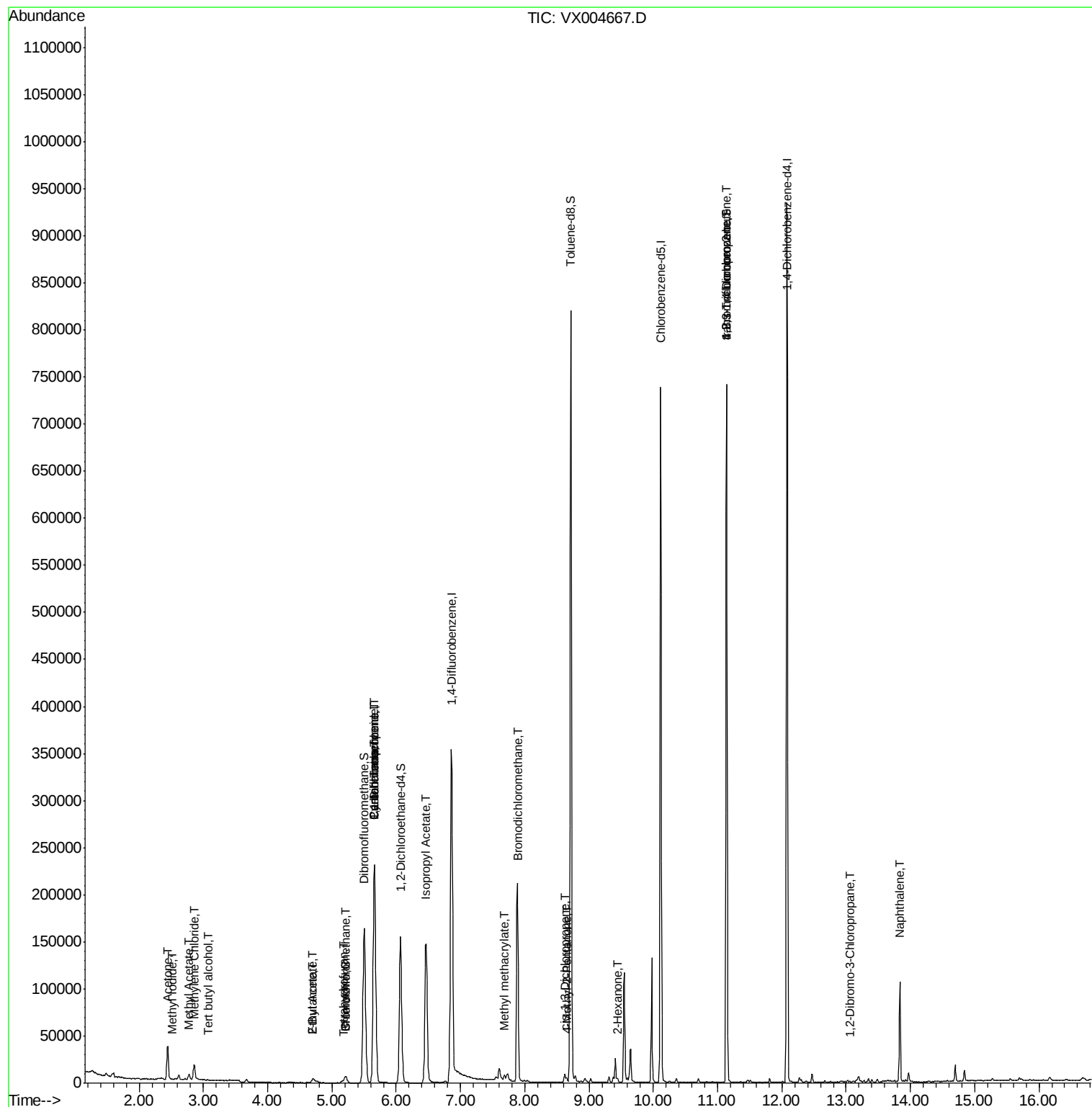
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	288	Below Cal		84
10) Methyl Iodide	2.52	142	124	4.291	ug/l #	60
11) Tert butyl alcohol	3.07	59	338	0.444	ug/l #	73
16) Acetone	2.45	43	38423	24.670	ug/l	96
18) Methyl Acetate	2.78	43	6289	1.439	ug/l	96
20) Methylene Chloride	2.85	84	7649	2.394	ug/l	92
25) 2-Butanone	4.70	43	8306	3.351	ug/l	98
28) Bromochloromethane	5.22	49	605	0.245	ug/l #	9
29) Tetrahydrofuran	5.17	42	1949	1.304	ug/l	97
30) Chloroform	5.21	83	7978	1.512	ug/l	95
31) Cyclohexane	5.66	56	3756	0.814	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15315	3.242	ug/l #	49
37) Ethyl Acetate	4.70	43	8306	1.546	ug/l #	67
38) Carbon Tetrachloride	5.66	117	20981	4.548	ug/l #	14
43) Isopropyl Acetate	6.46	43	203798	28.562	ug/l	99
47) Bromodichloromethane	7.90	83	1161	0.288	ug/l #	90
48) Methyl methacrylate	7.69	41	7697	2.180	ug/l #	19
51) 4-Methyl-2-Pentanone	8.65	43	2144	0.426	ug/l #	60
54) cis-1,3-Dichloropropene	8.62	75	1537	0.320	ug/l #	66
59) 2-Hexanone	9.44	43	1849	0.479	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	86126	21.581	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	86126	68.789	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	13.06	75	218	0.242	ug/l #	1
95) Naphthalene	13.83	128	66237	4.891	ug/l	98

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

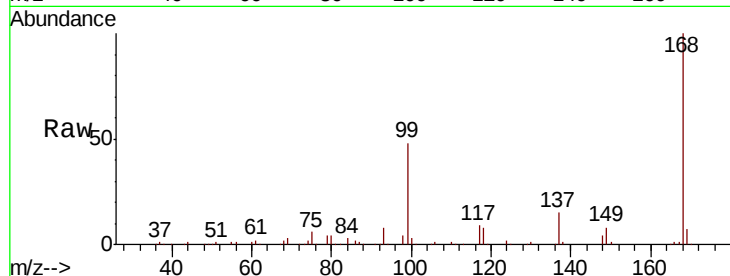
COMP-2

Tgt Ion:168 Resp: 247483

Ion Ratio Lower Upper

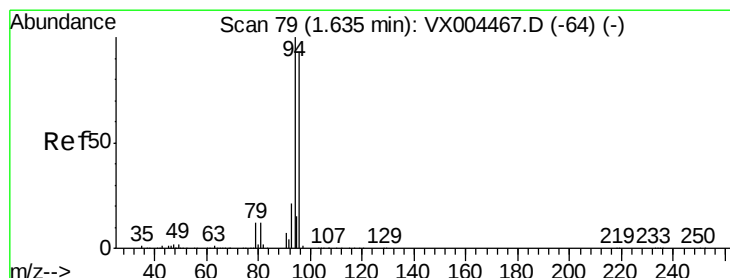
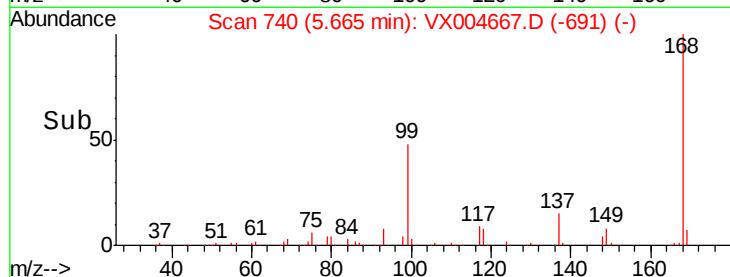
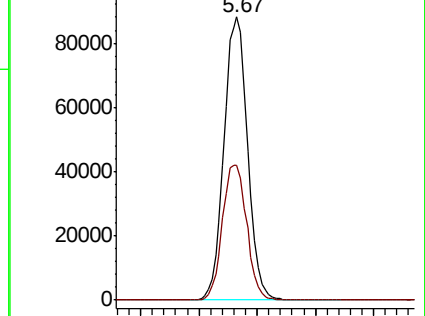
168 100

99 47.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004667.D

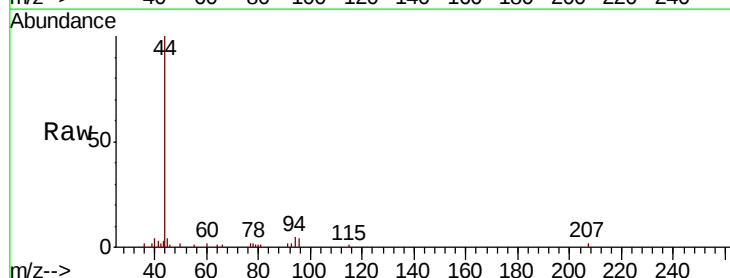
Acq: 18 Sep 2018 19:23

Tgt Ion: 94 Resp: 288

Ion Ratio Lower Upper

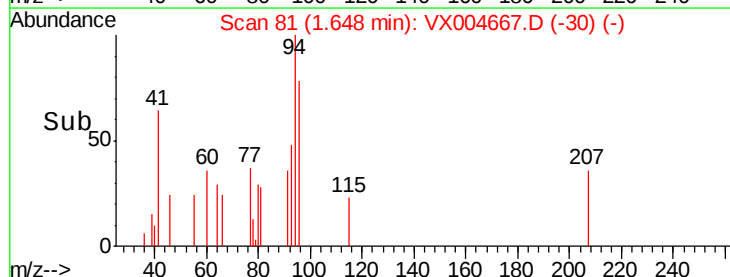
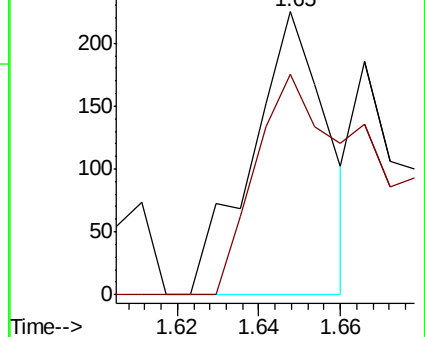
94 100

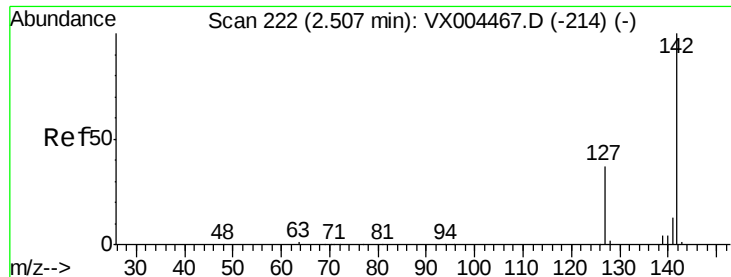
96 77.8 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

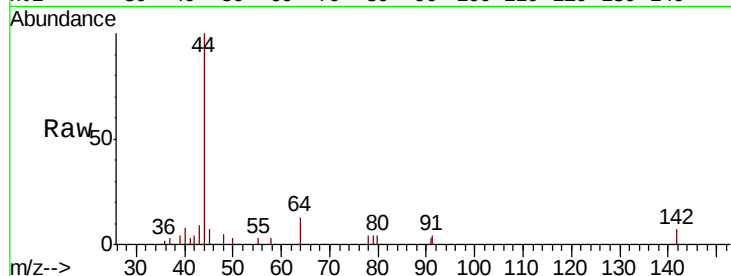




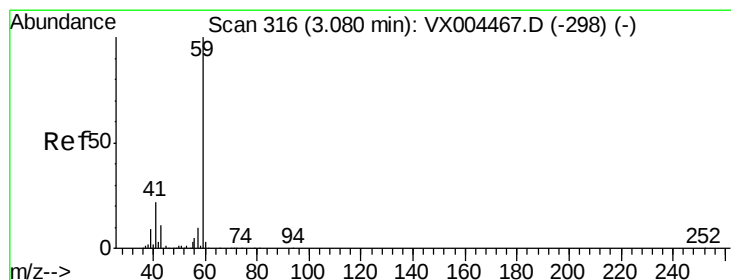
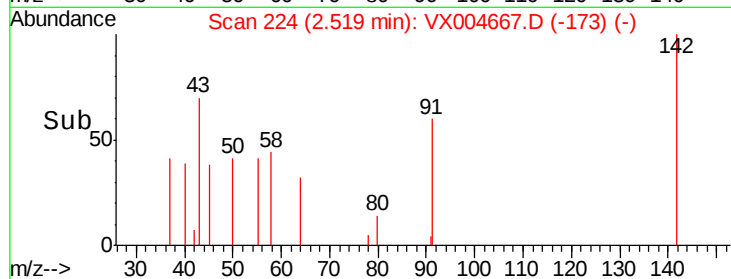
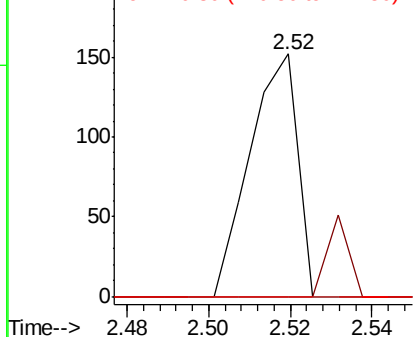
#10
Methyl Iodide
Concen: 4.291 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Instrument :
MSVOA_X
ClientSampleId :
COMP-2

Tgt Ion:142 Resp: 124
Ion Ratio Lower Upper
142 100
127 15.3 33.8 50.6#
141 0.0 11.4 17.0#

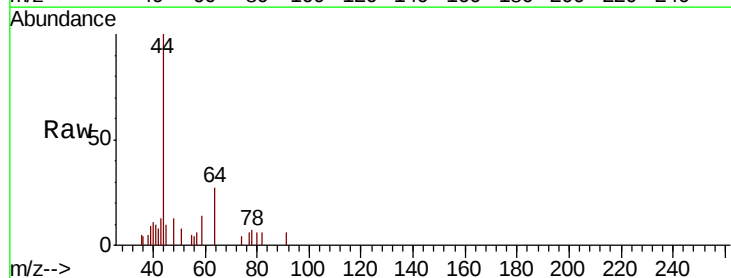


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

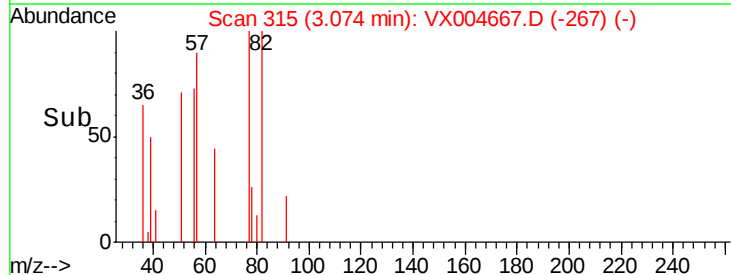
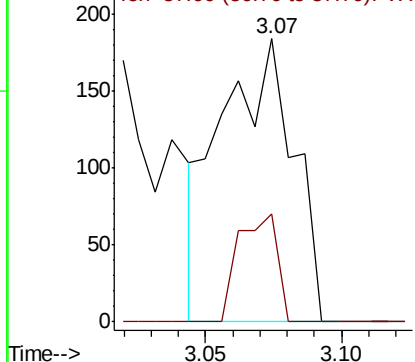


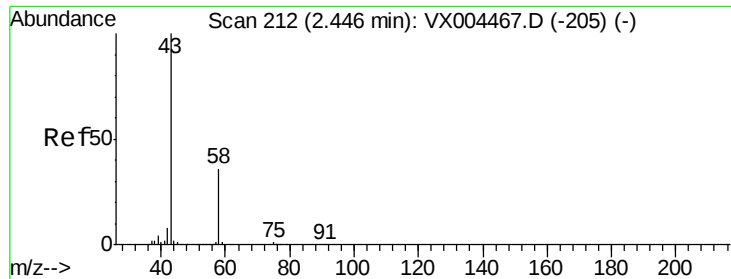
#11
Tert butyl alcohol
Concen: 0.444 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Tgt Ion: 59 Resp: 338
Ion Ratio Lower Upper
59 100
57 20.4 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 24.670 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

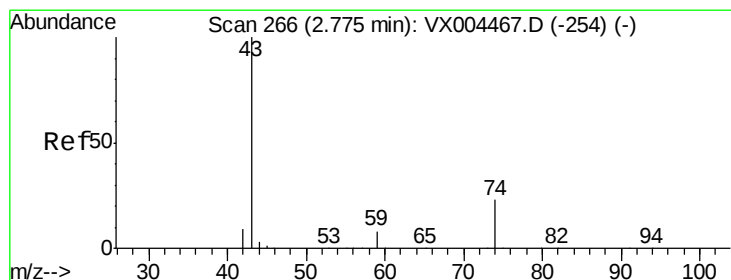
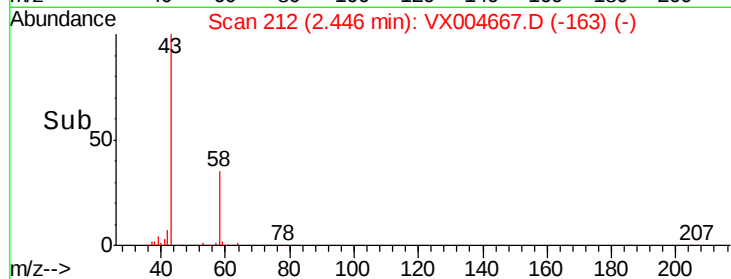
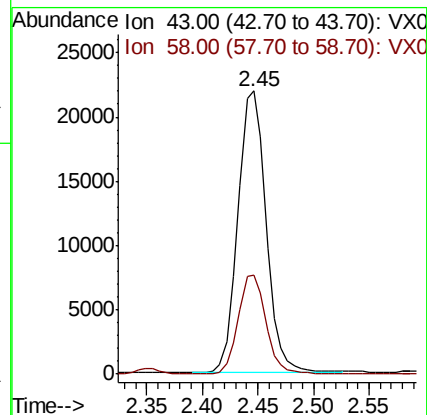
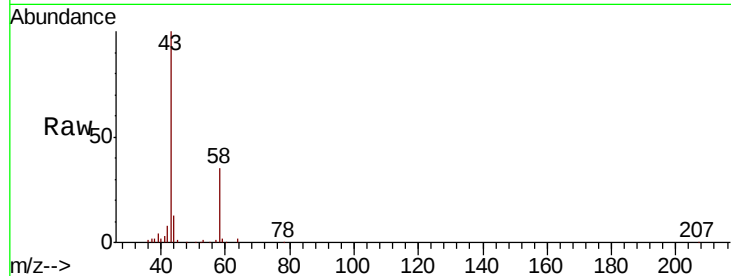
COMP-2

Tgt Ion: 43 Resp: 38423

Ion Ratio Lower Upper

43 100

58 35.1 26.2 39.4



#18

Methyl Acetate

Concen: 1.439 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX004667.D

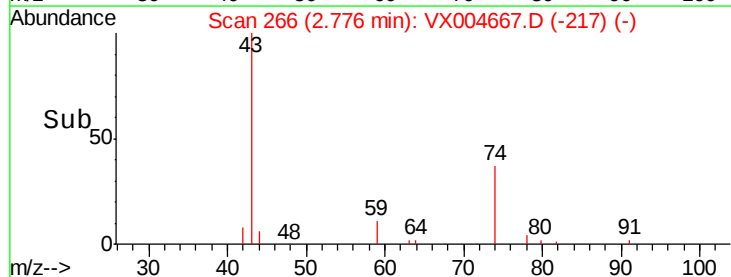
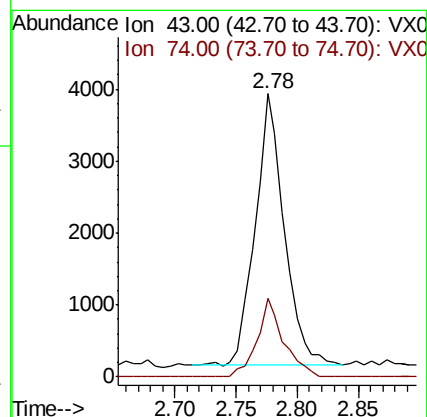
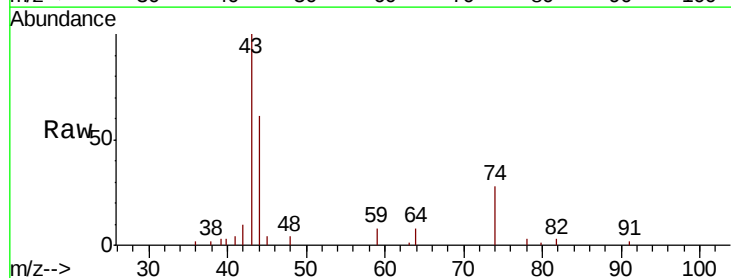
Acq: 18 Sep 2018 19:23

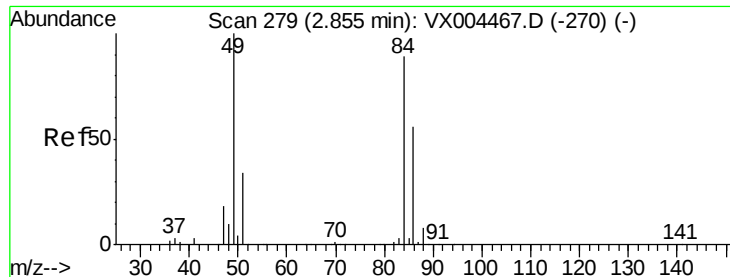
Tgt Ion: 43 Resp: 6289

Ion Ratio Lower Upper

43 100

74 26.2 19.4 29.2

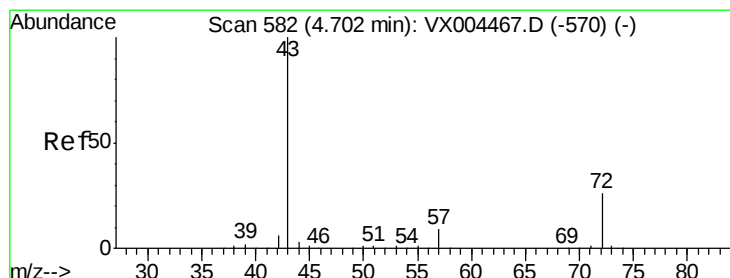
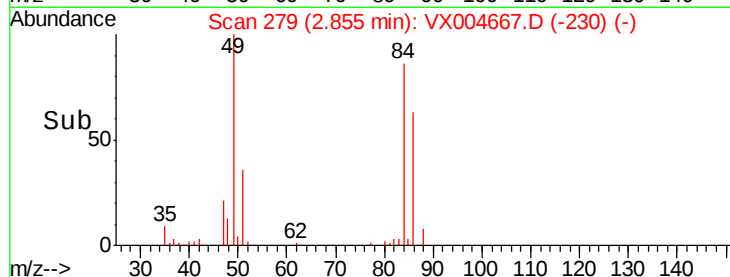
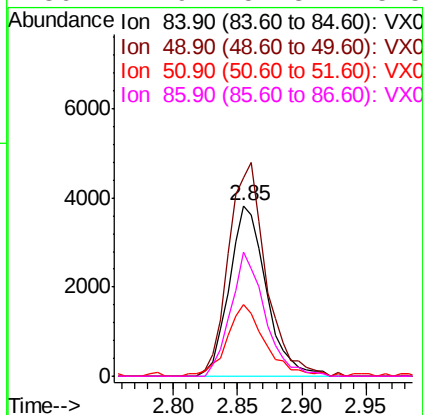
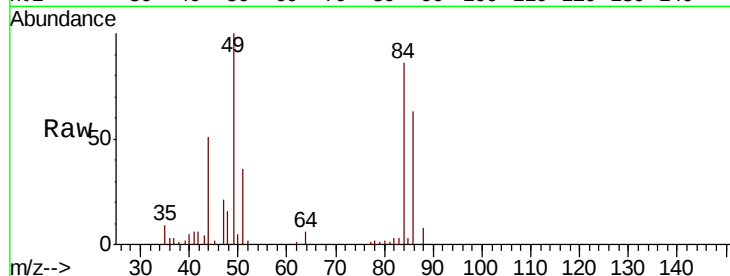




#20
Methylene Chloride
Concen: 2.394 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

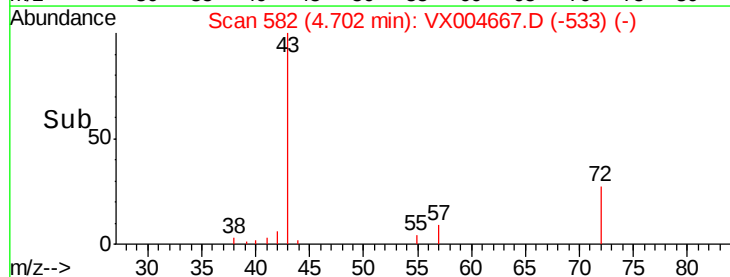
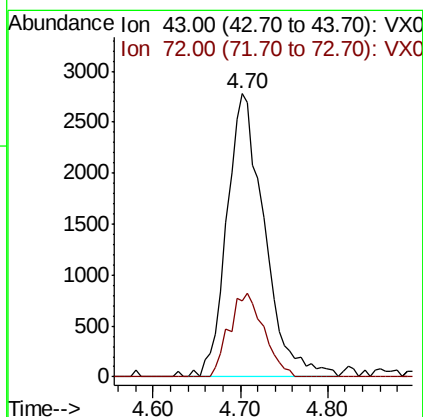
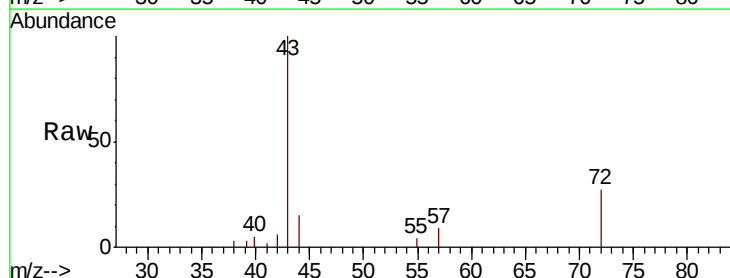
Instrument :
MSVOA_X
ClientSampled :
COMP-2

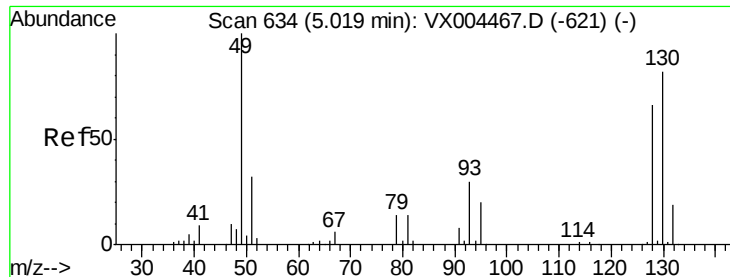
Tgt Ion: 84 Resp: 7649
Ion Ratio Lower Upper
84 100
49 116.5 101.2 151.8
51 40.3 29.5 44.3
86 72.9 52.3 78.5



#25
2-Butanone
Concen: 3.351 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.00 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Tgt Ion: 43 Resp: 8306
Ion Ratio Lower Upper
43 100
72 26.7 22.0 33.0





#28

Bromochloromethane

Concen: 0.245 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.20 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

COMP-2

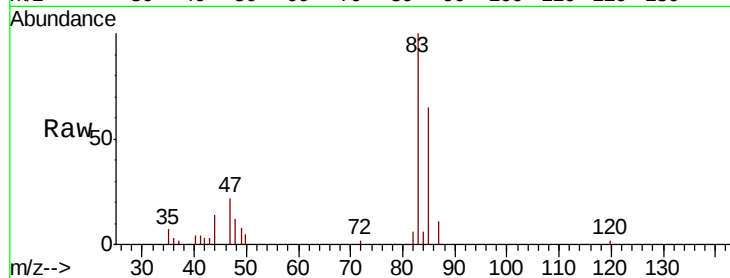
Tgt Ion: 49 Resp: 605

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

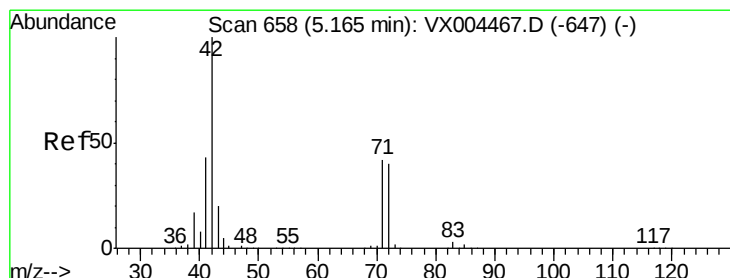
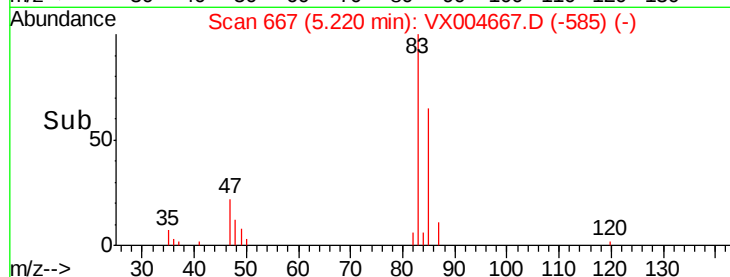
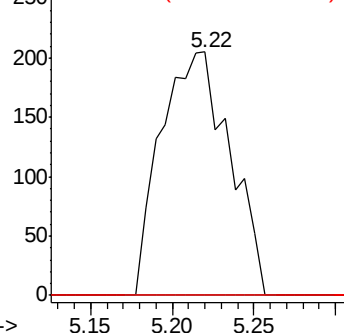
130 0.0 67.5 101.3#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 1.304 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

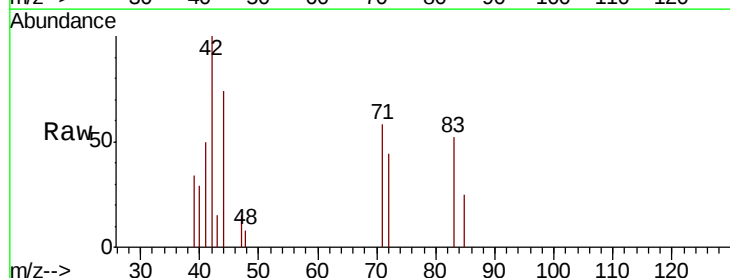
Tgt Ion: 42 Resp: 1949

Ion Ratio Lower Upper

42 100

72 43.4 37.4 56.0

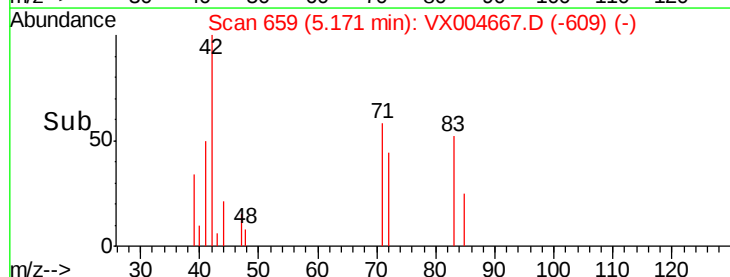
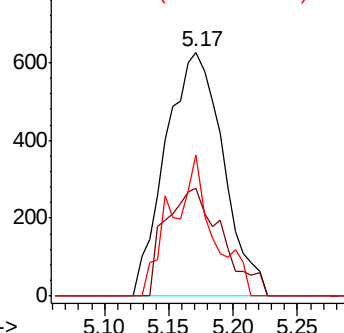
71 42.0 34.5 51.7

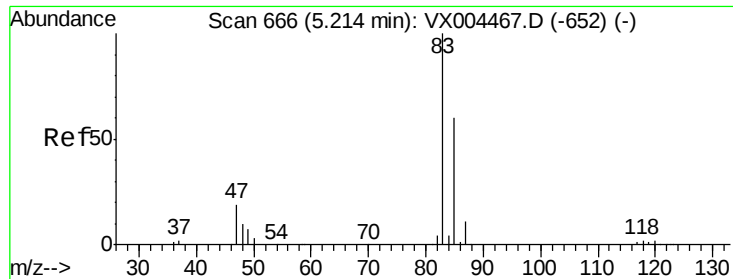


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

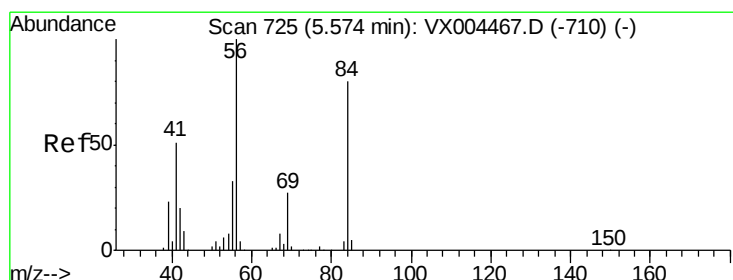
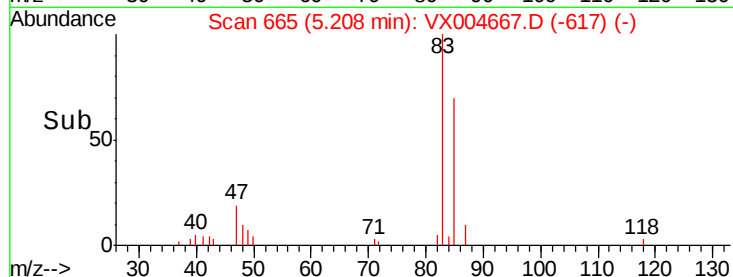
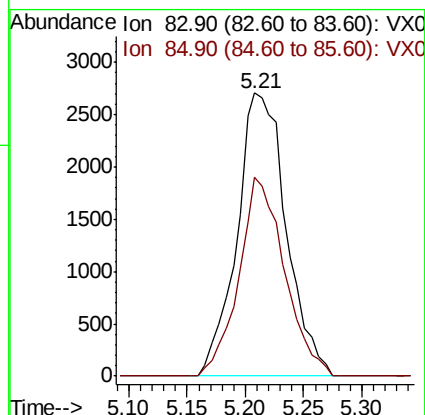
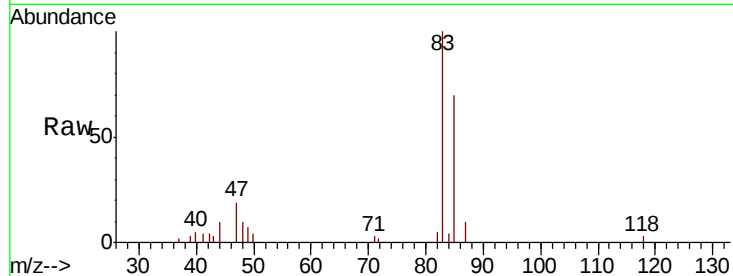




#30
Chloroform
Concen: 1.512 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

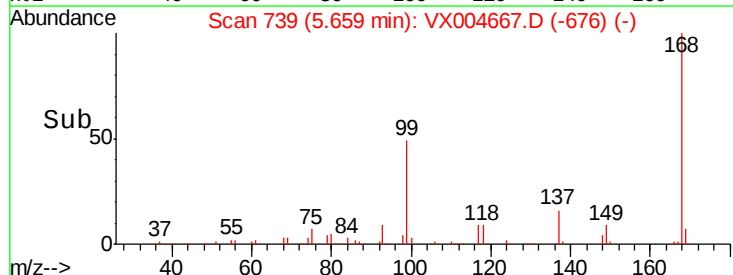
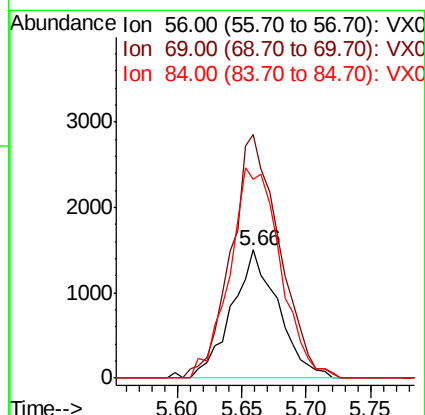
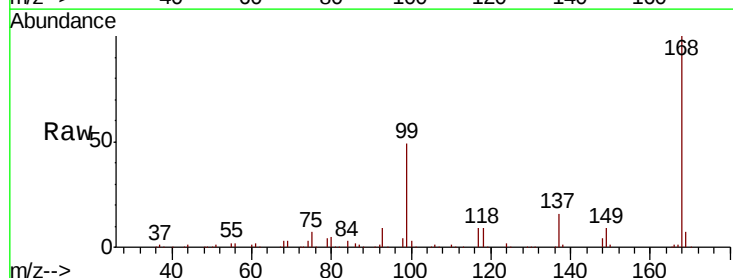
Instrument :
MSVOA_X
ClientSampleId :
COMP-2

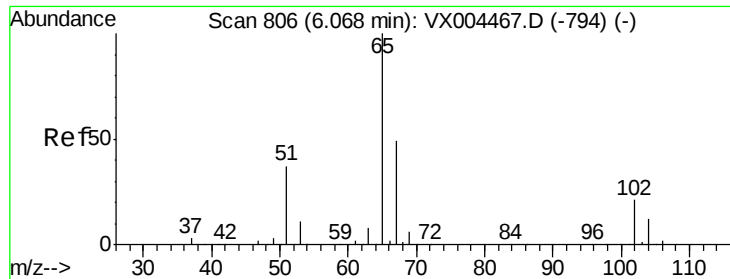
Tgt Ion: 83 Resp: 7978
Ion Ratio Lower Upper
83 100
85 70.0 52.6 79.0



#31
Cyclohexane
Concen: 0.814 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Tgt Ion: 56 Resp: 3756
Ion Ratio Lower Upper
56 100
69 189.9 25.4 38.2#
84 155.3 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 45.289 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

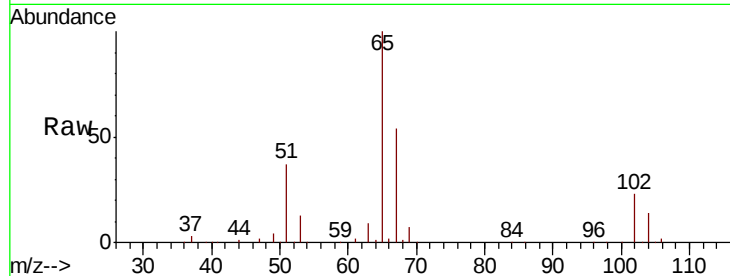
COMP-2

Tgt Ion: 65 Resp: 144519

Ion Ratio Lower Upper

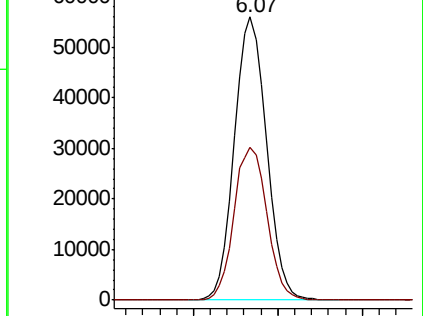
65 100

67 55.5 0.0 106.8

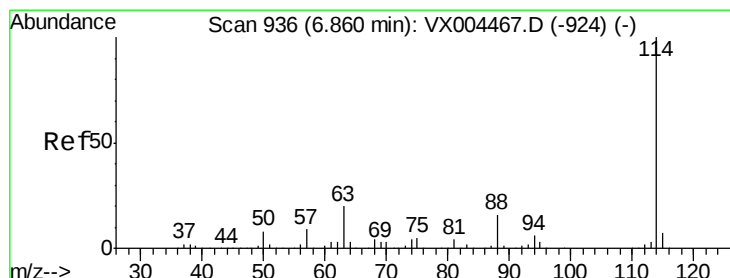
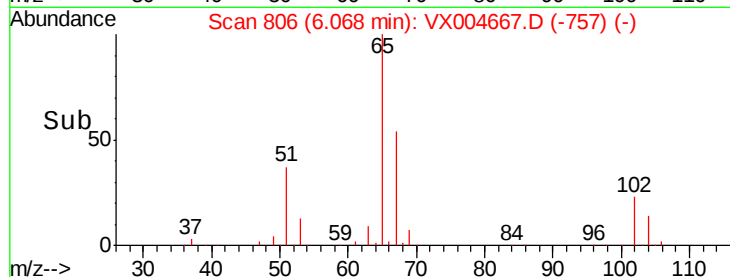


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

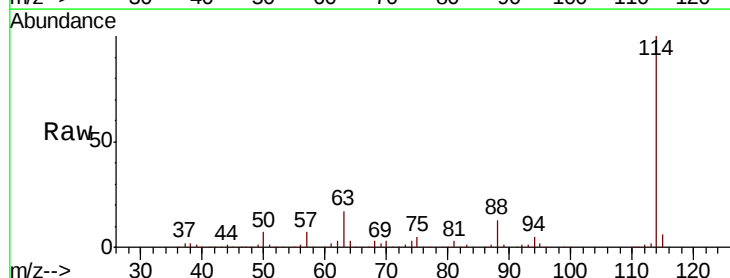
Tgt Ion: 114 Resp: 389063

Ion Ratio Lower Upper

114 100

63 17.2 0.0 39.0

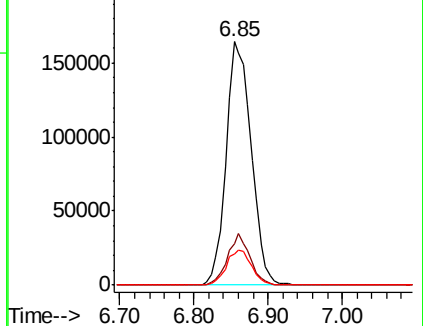
88 12.5 0.0 30.4



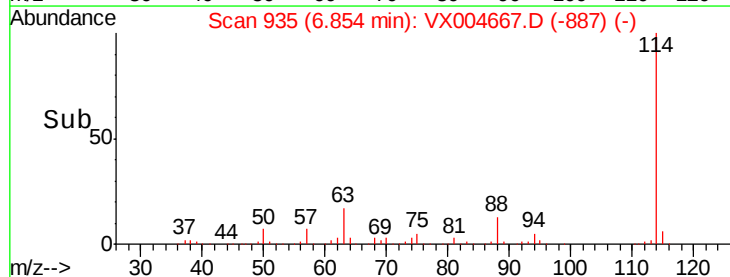
Abundance Ion 113.90 (113.60 to 114.60): V

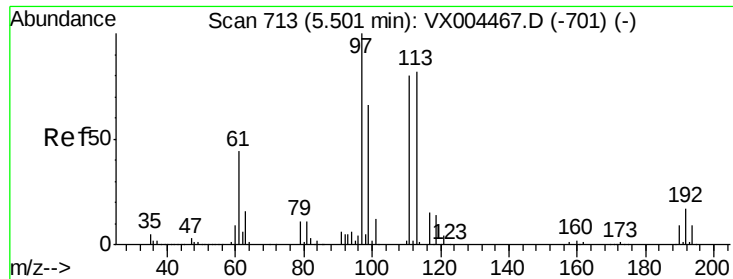
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



Time-->

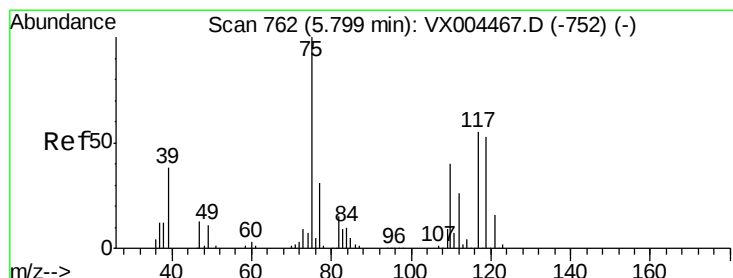
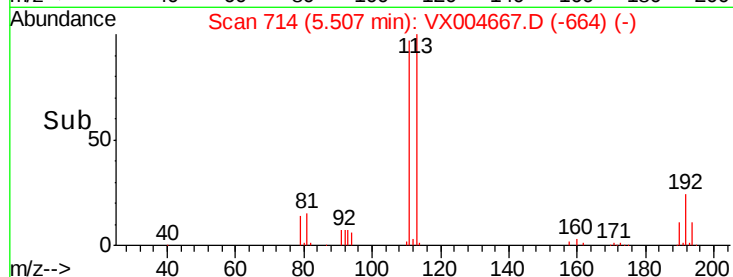
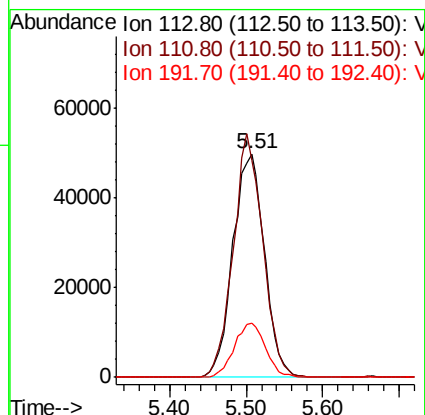
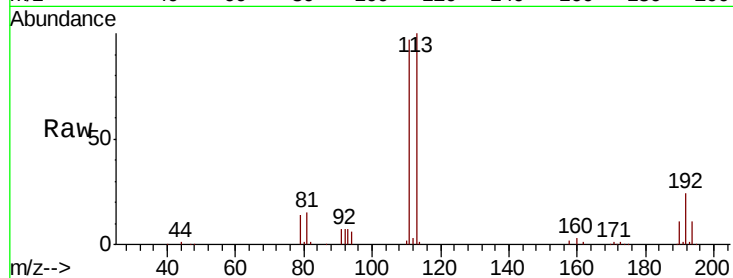




#35
 Dibromofluoromethane
 Concen: 39.875 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004667.D
 Acq: 18 Sep 2018 19:23

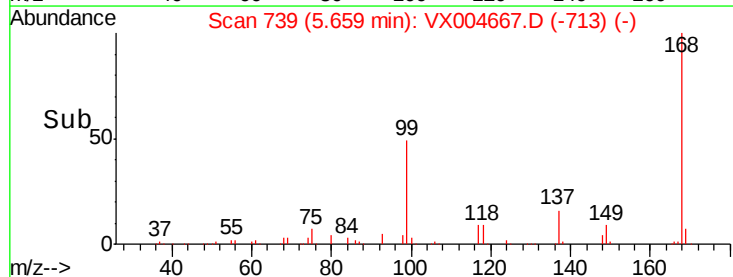
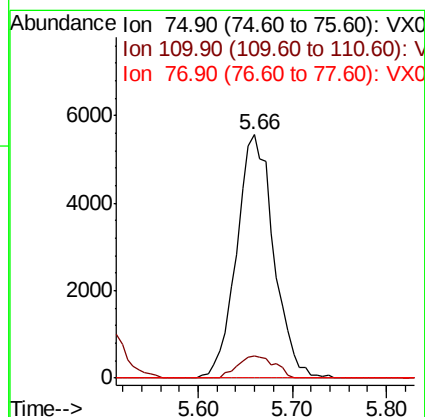
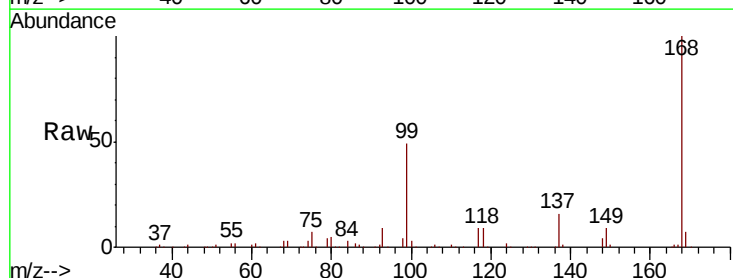
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

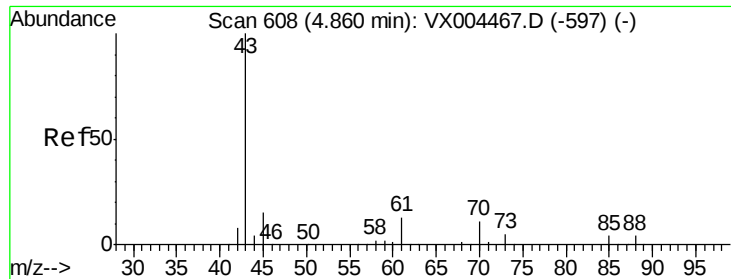
Tgt Ion:113 Resp: 141967
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 24.0 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.242 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004667.D
 Acq: 18 Sep 2018 19:23

Tgt Ion: 75 Resp: 15315
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.0 54.0#
 77 0.0 24.6 36.8#

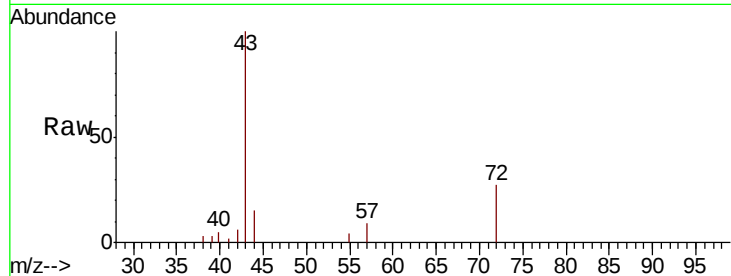




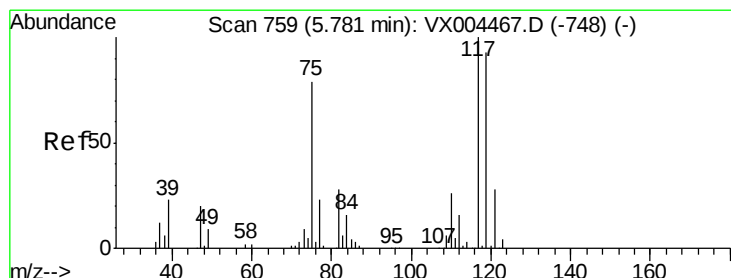
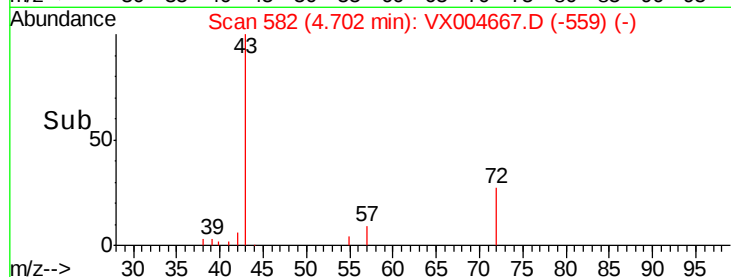
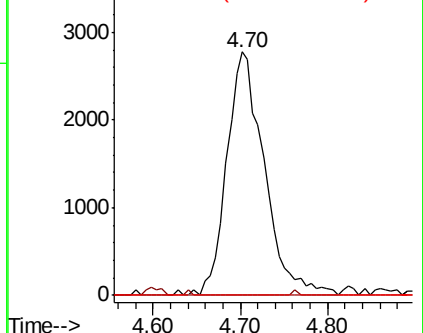
#37
Ethyl Acetate
Concen: 1.546 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.16 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Instrument :
MSVOA_X
ClientSampleId :
COMP-2

Tgt Ion: 43 Resp: 8306
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 9.0 13.6#

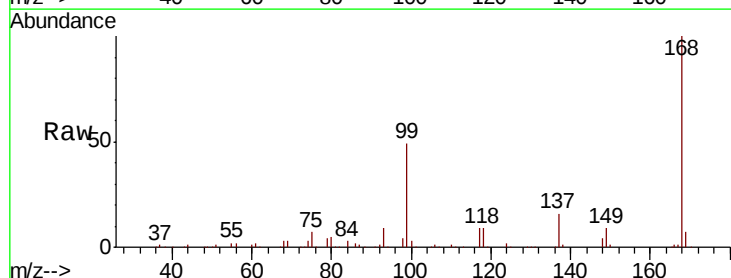


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

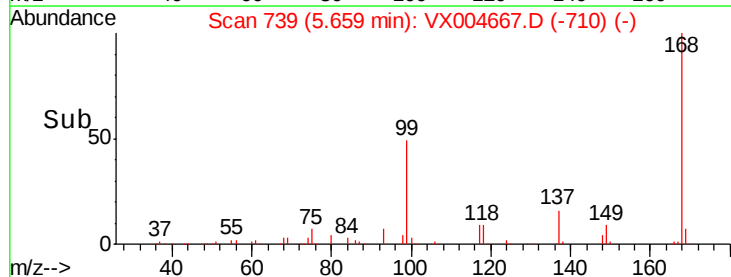
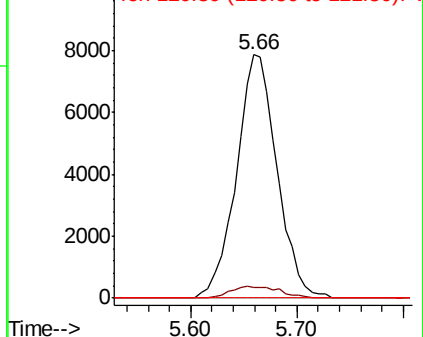


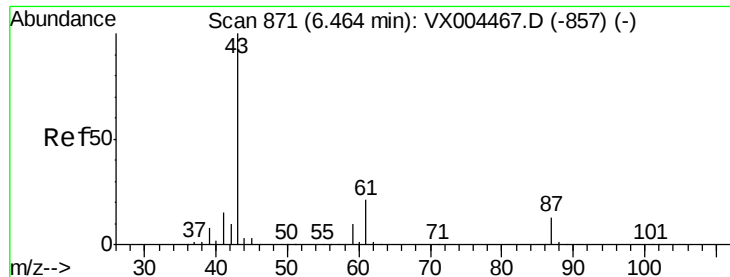
#38
Carbon Tetrachloride
Concen: 4.548 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Tgt Ion: 117 Resp: 20981
Ion Ratio Lower Upper
117 100
119 4.5 78.8 118.2#
121 0.0 24.9 37.3#



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





#43

Isopropyl Acetate

Concen: 28.562 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

COMP-2

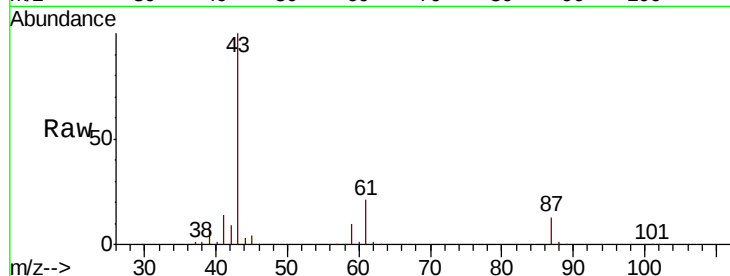
Tgt Ion: 43 Resp: 203798

Ion Ratio Lower Upper

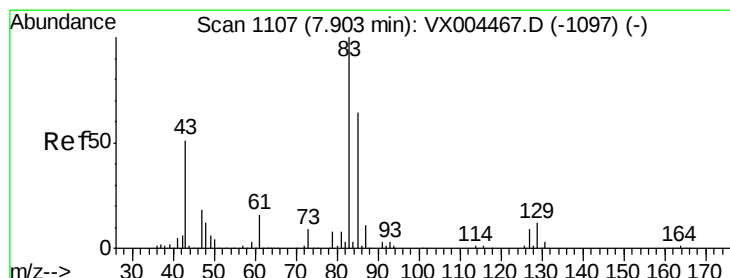
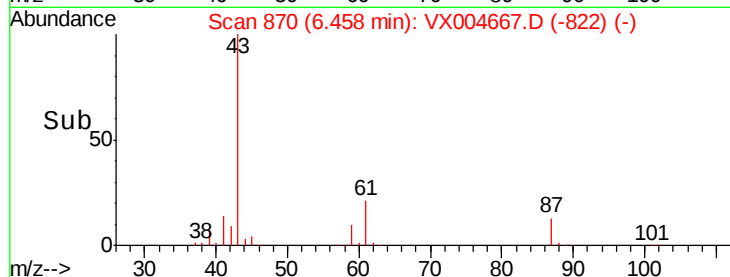
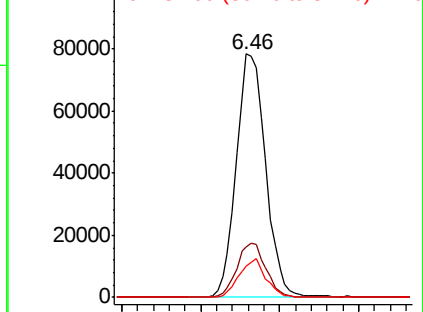
43 100

61 21.8 17.0 25.4

87 14.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#47

Bromodichloromethane

Concen: 0.288 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

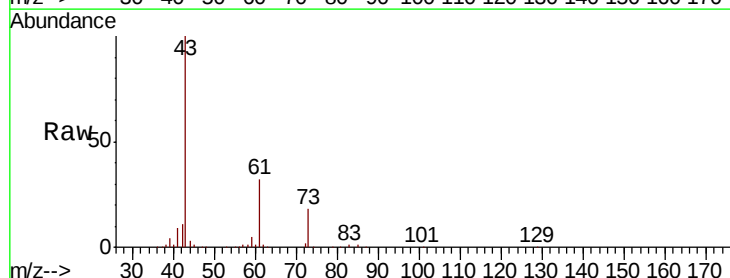
Tgt Ion: 83 Resp: 1161

Ion Ratio Lower Upper

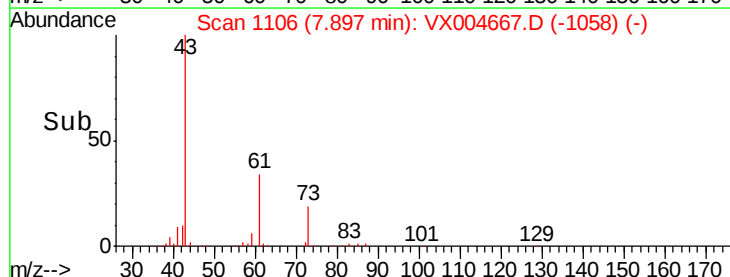
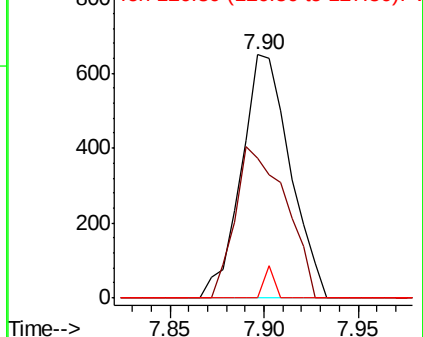
83 100

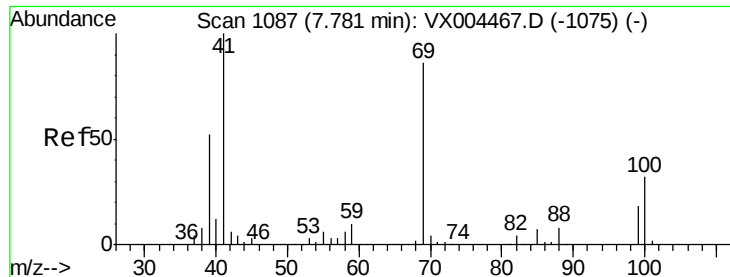
85 57.5 50.9 76.3

127 0.0 7.3 10.9#



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 2.180 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

COMP-2

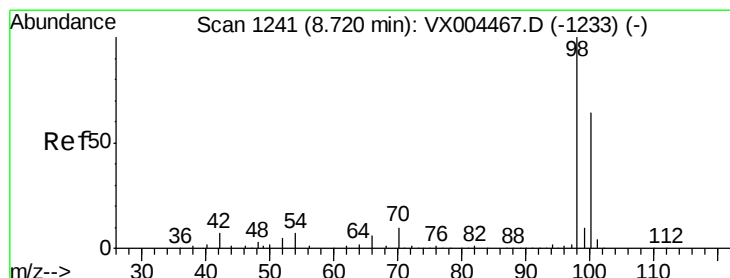
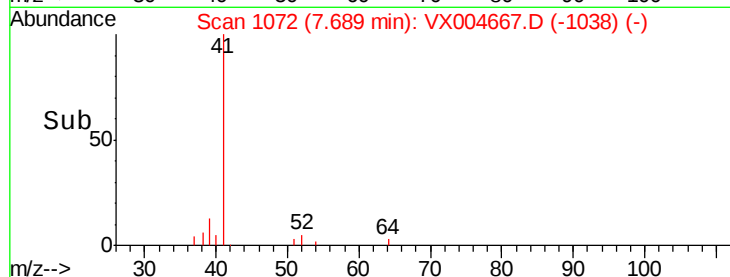
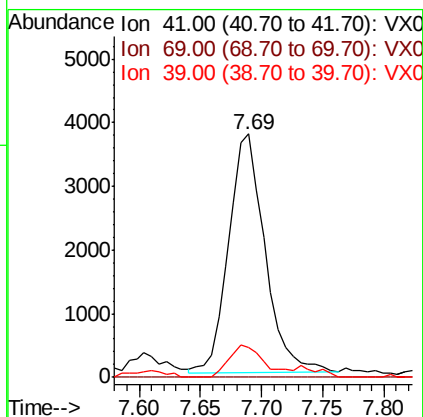
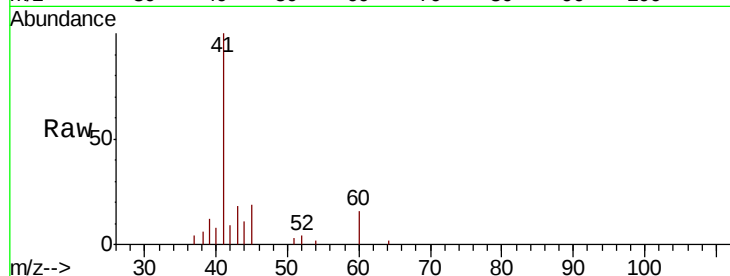
Tgt Ion: 41 Resp: 7697

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

39 12.2 42.7 64.1#



#50

Toluene-d8

Concen: 43.003 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004667.D

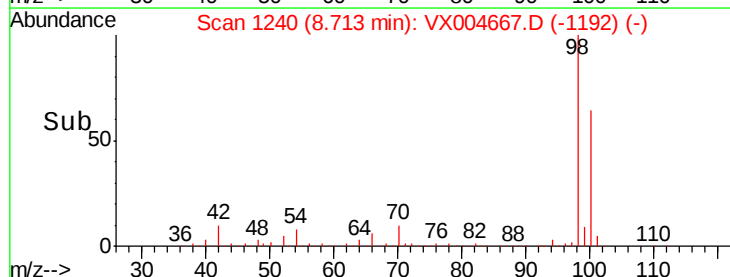
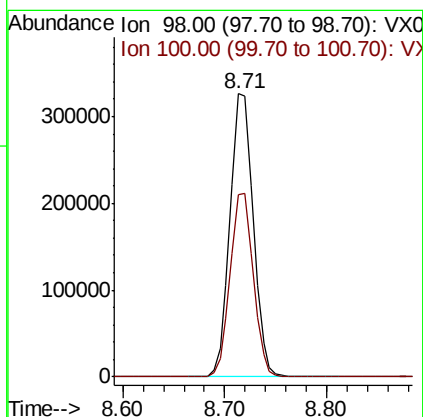
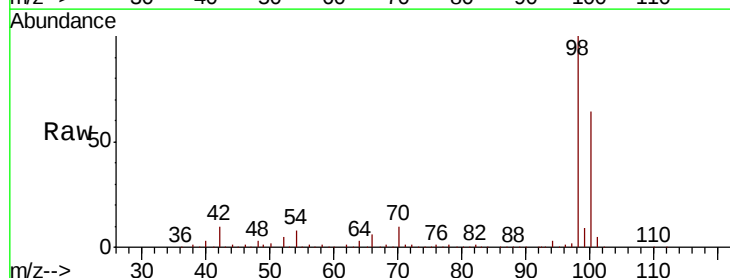
Acq: 18 Sep 2018 19:23

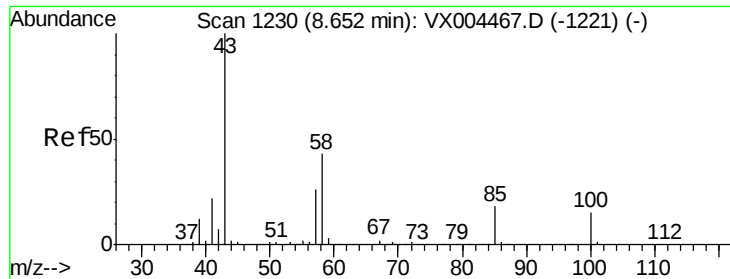
Tgt Ion: 98 Resp: 513430

Ion Ratio Lower Upper

98 100

100 64.5 52.9 79.3

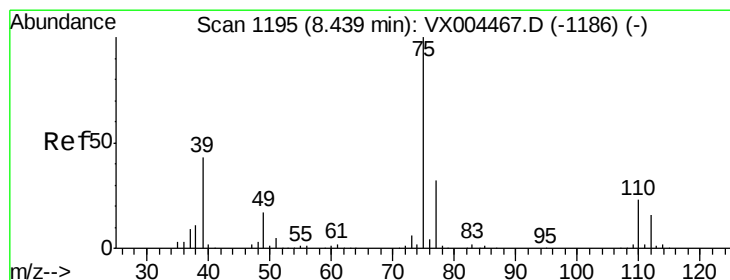
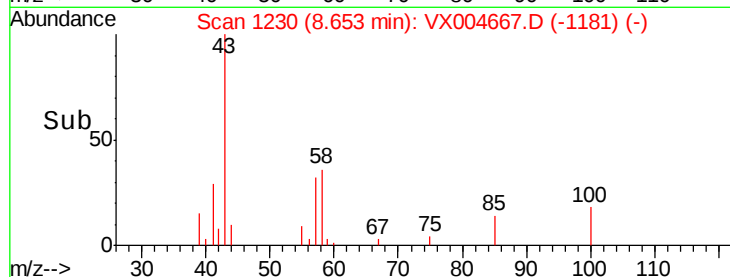
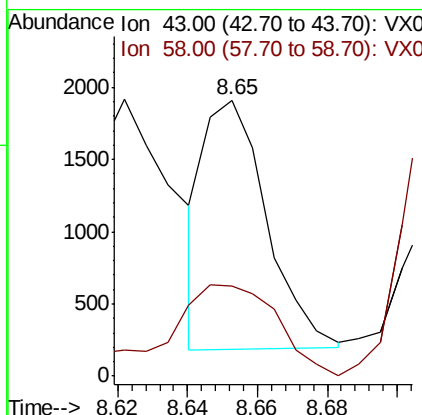
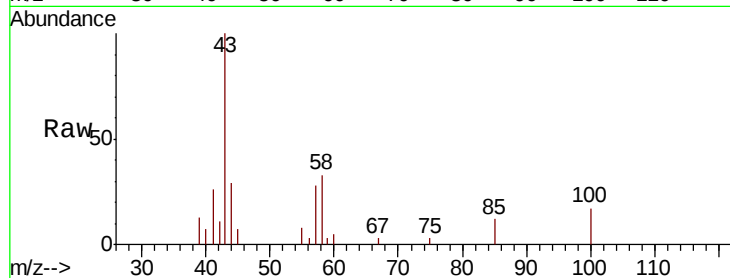




#51
 4-Methyl-2-Pentanone
 Concen: 0.426 ug/l
 RT: 8.65 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VX004667.D
 Acq: 18 Sep 2018 19:23

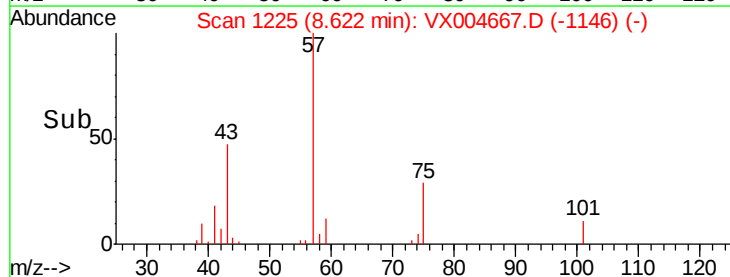
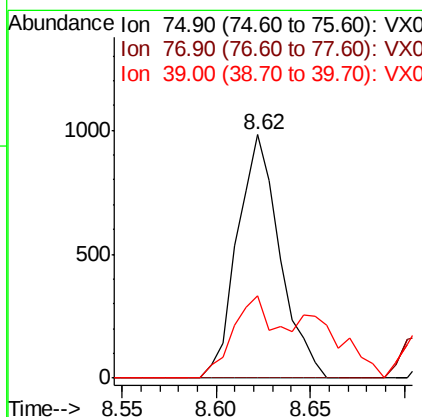
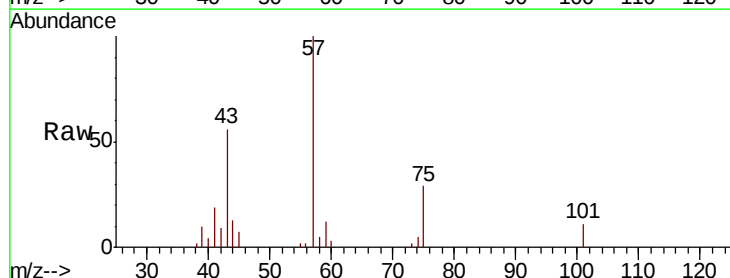
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

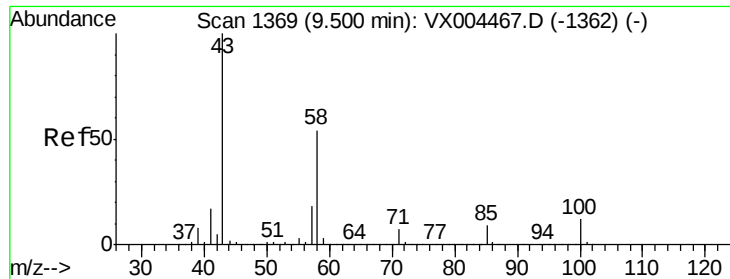
Tgt Ion: 43 Resp: 2144
 Ion Ratio Lower Upper
 43 100
 58 66.2 33.1 49.7#



#54
 cis-1,3-Dichloropropene
 Concen: 0.320 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004667.D
 Acq: 18 Sep 2018 19:23

Tgt Ion: 75 Resp: 1537
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 34.1 36.4 54.6#

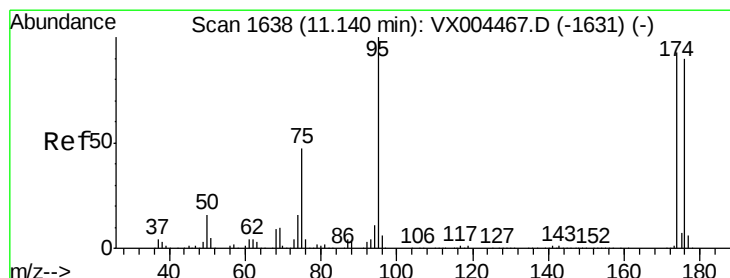
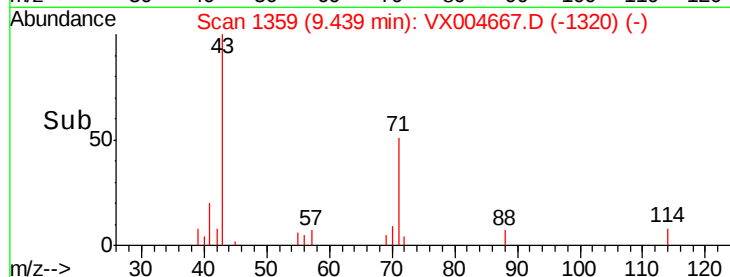
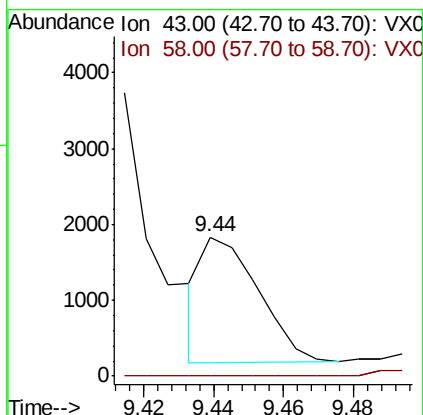
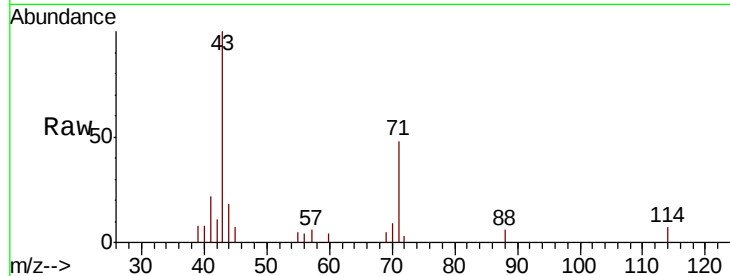




#59
2-Hexanone
Concen: 0.479 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.06 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

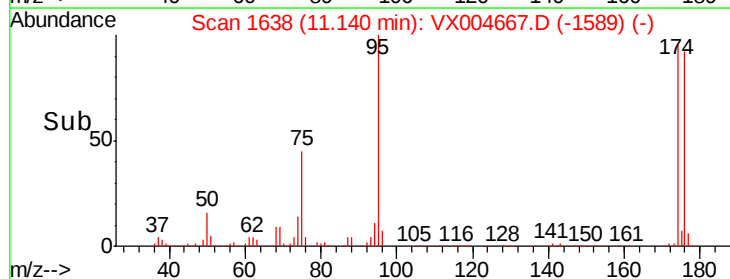
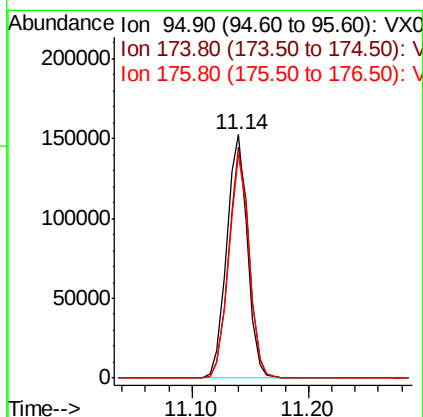
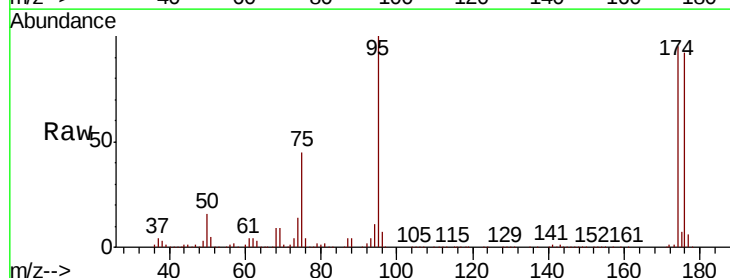
Instrument :
MSVOA_X
ClientSampled :
COMP-2

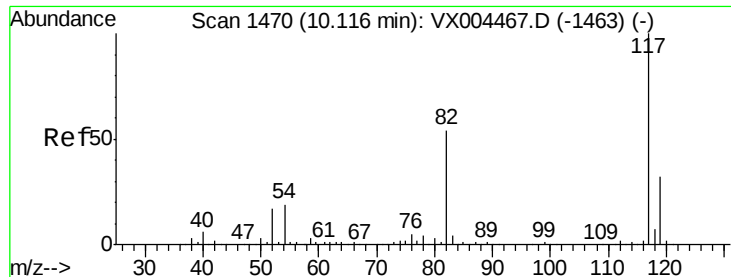
Tgt Ion: 43 Resp: 1849
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 43.930 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Tgt Ion: 95 Resp: 187226
Ion Ratio Lower Upper
95 100
174 93.9 0.0 185.2
176 91.3 0.0 178.6

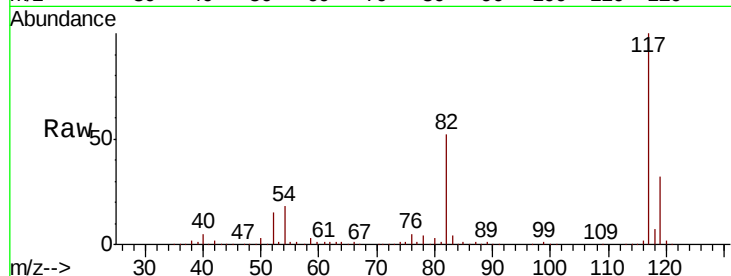




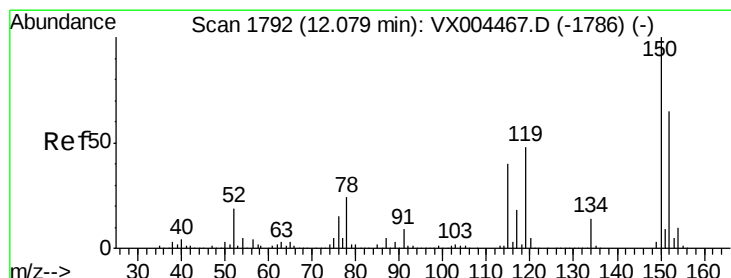
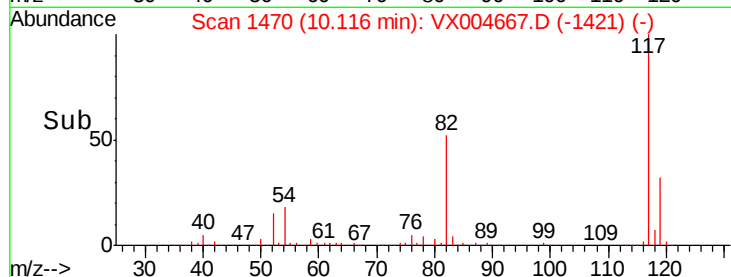
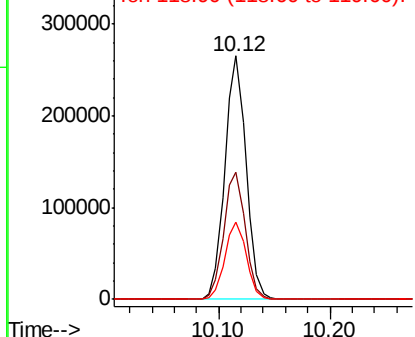
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Instrument :
MSVOA_X
ClientSampleId :
COMP-2

Tgt Ion:117 Resp: 350169
Ion Ratio Lower Upper
117 100
82 52.3 47.8 71.6
119 31.9 29.3 43.9

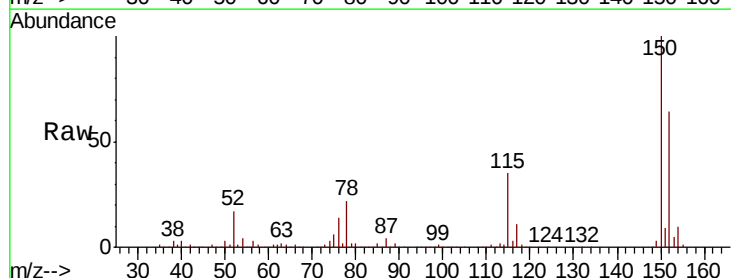


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

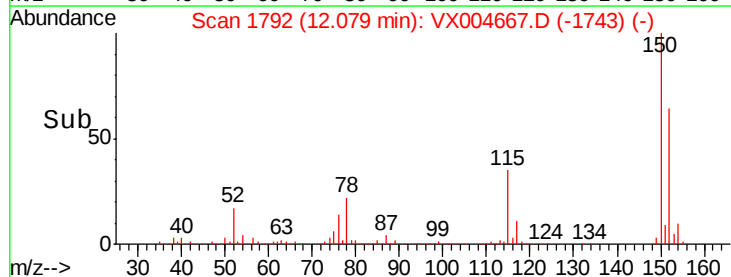
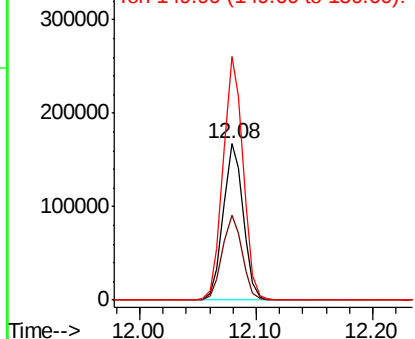


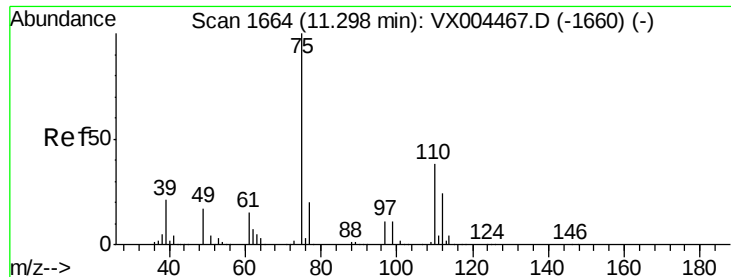
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004667.D
Acq: 18 Sep 2018 19:23

Tgt Ion:152 Resp: 198359
Ion Ratio Lower Upper
152 100
115 54.3 39.0 117.0
150 156.4 0.0 351.0



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

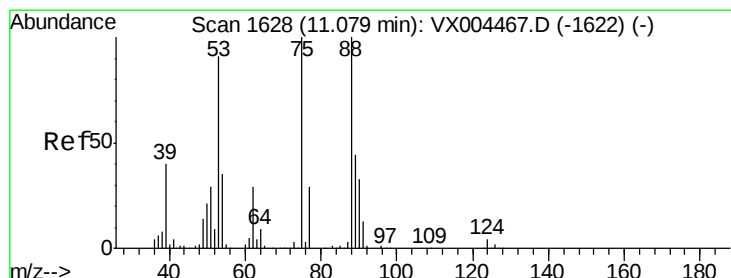
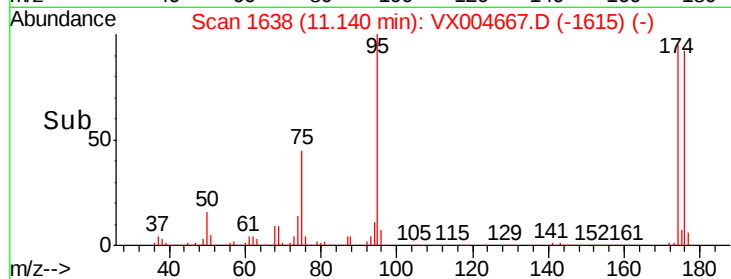
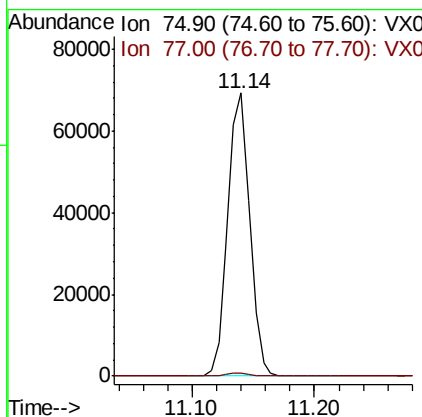
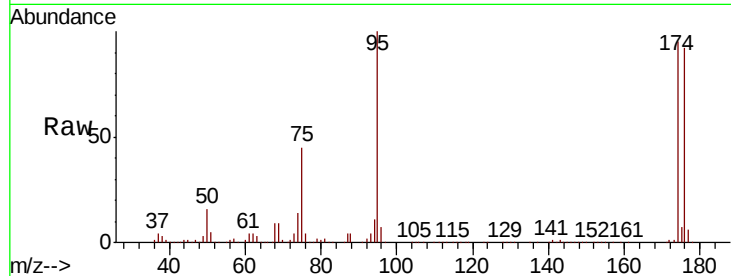




#76
 1,2,3-Trichloropropane
 Concen: 21.581 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004667.D
 Acq: 18 Sep 2018 19:23

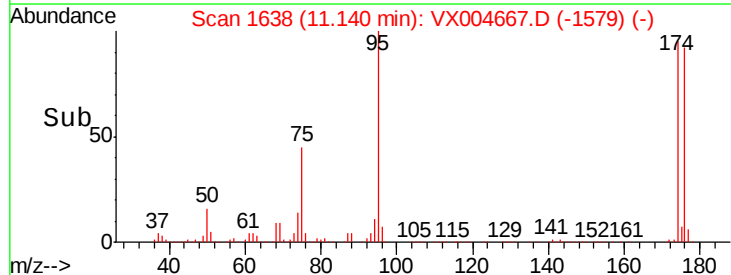
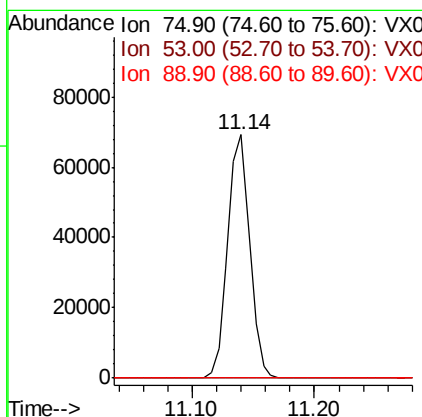
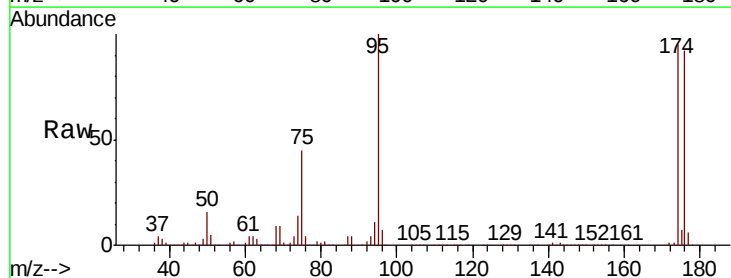
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

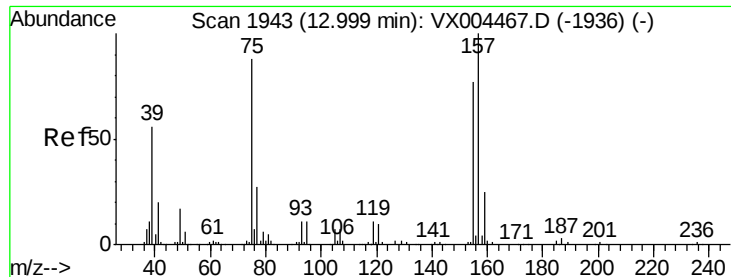
Tgt Ion: 75 Resp: 86126
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.789 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX004667.D
 Acq: 18 Sep 2018 19:23

Tgt Ion: 75 Resp: 86126
 Ion Ratio Lower Upper
 75 100
 53 0.1 80.1 120.1#
 89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.242 ug/l

RT: 13.06 min Scan# 1953

Delta R.T. 0.06 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

COMP-2

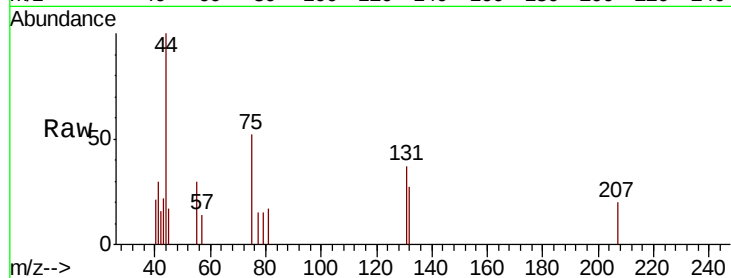
Tgt Ion: 75 Resp: 218

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.2#

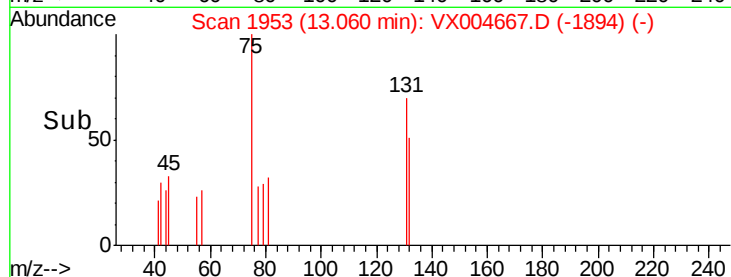
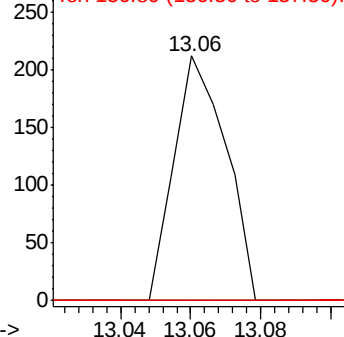
157 0.0 61.4 184.1#



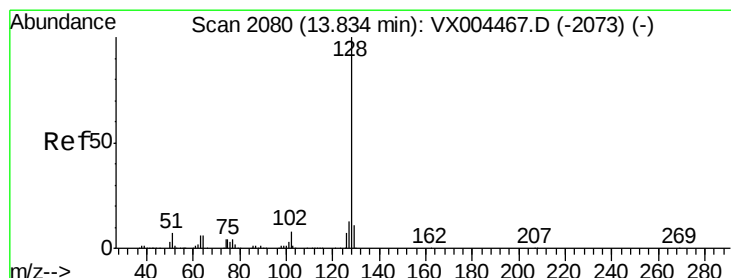
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->



#95

Naphthalene

Concen: 4.891 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004667.D

Acq: 18 Sep 2018 19:23

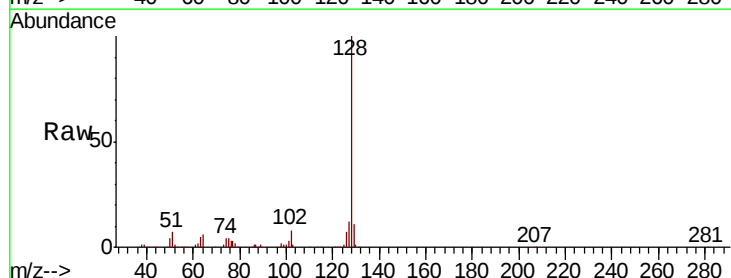
Tgt Ion: 128 Resp: 66237

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.2

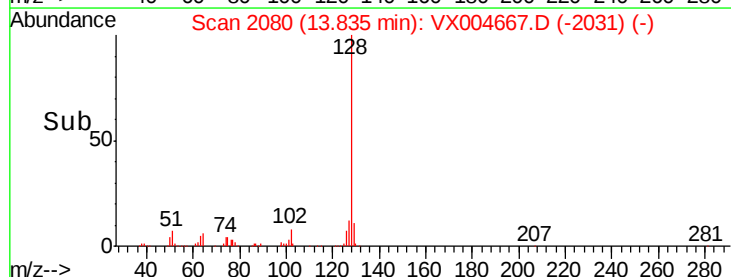
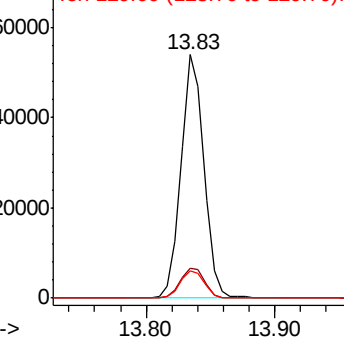
129 11.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->