

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\
 Data File : VX000935.D
 Acq On : 16 Apr 2018 22:13
 Operator : JC/MD
 Sample : J2260-04
 Misc : 4.58µL/10µL/5mL/MSVOA_X/MEOH
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 17 02:39:02 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	327412	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309718	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	206869	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	142006	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
35) Dibromofluoromethane	5.51	113	108118	42.86	ug/l	0.00
Spiked Amount			Recovery	=	85.72%	
50) Toluene-d8	8.72	98	456108	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.15	95	184918	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	

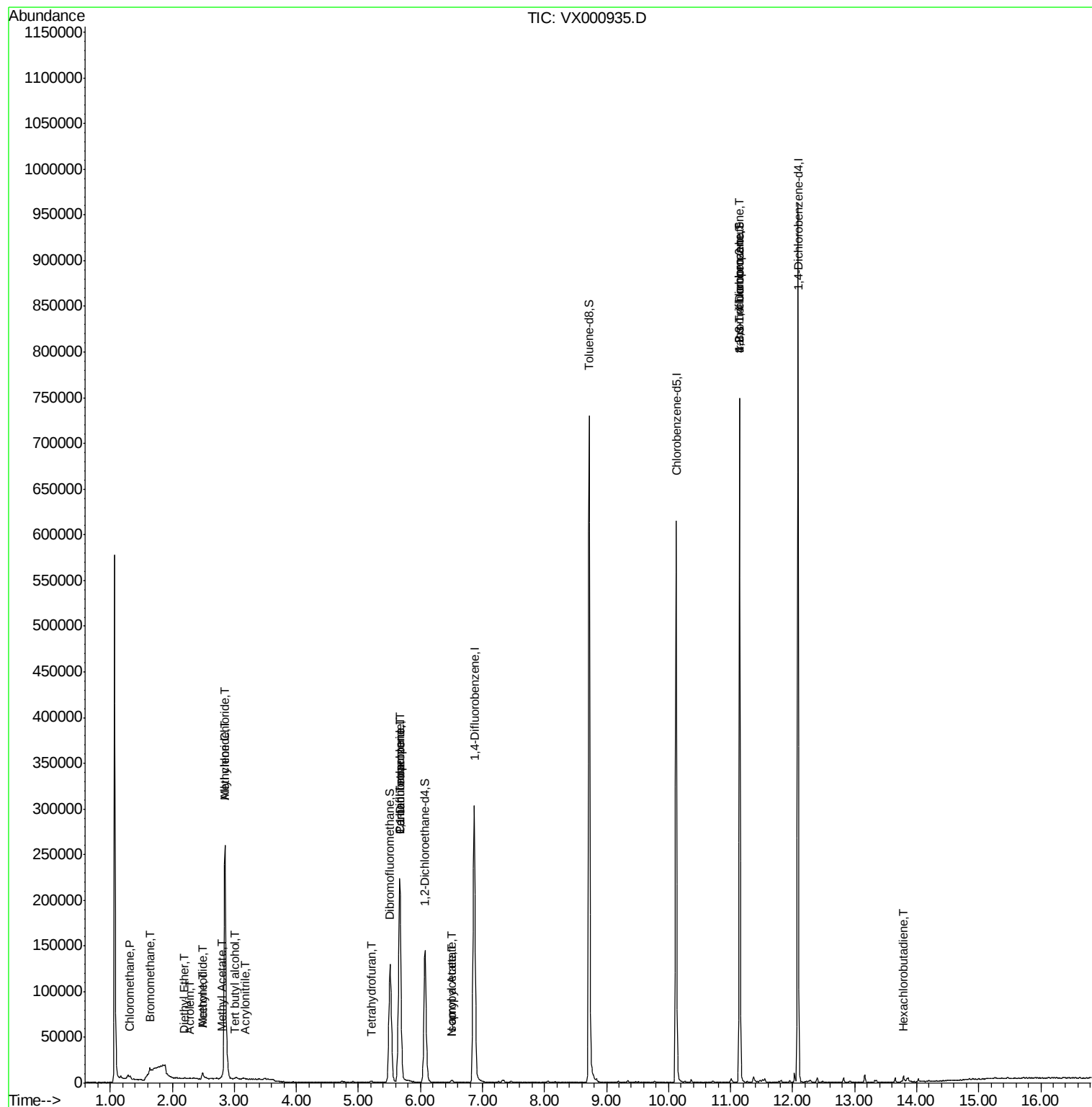
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	930	0.398	ug/l	100
5) Bromomethane	1.64	94	2599	1.037	ug/l	87
8) Diethyl Ether	2.20	74	314	0.212	ug/l	54
10) Methyl Iodide	2.50	142	3506	9.841	ug/l	99
11) Tert butyl alcohol	3.02	59	1120	2.074	ug/l #	85
13) Acrolein	2.29	56	222	0.847	ug/l	83
14) Allyl chloride	2.85	41	5286	1.291	ug/l #	29
15) Acrylonitrile	3.17	53	511	0.444	ug/l #	77
16) Acetone	2.48	43	5541	5.283	ug/l #	87
18) Methyl Acetate	2.80	43	3220	1.186	ug/l	91
20) Methylene Chloride	2.85	84	134344	55.071	ug/l	98
29) Tetrahydrofuran	5.21	42	1731	1.574	ug/l #	77
36) 1,1-Dichloropropene	5.66	75	14616	4.053	ug/l #	48
38) Carbon Tetrachloride	5.66	117	20535	5.088	ug/l #	15
43) Isopropyl Acetate	6.51	43	1764	0.292	ug/l #	61
74) N-amyl acetate	6.51	43	1764	0.298	ug/l #	57
76) 1,2,3-Trichloropropane	11.15	75	89706	25.144	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	89706	69.166	ug/l #	11
94) Hexachlorobutadiene	13.79	225	1171	0.406	ug/l	99

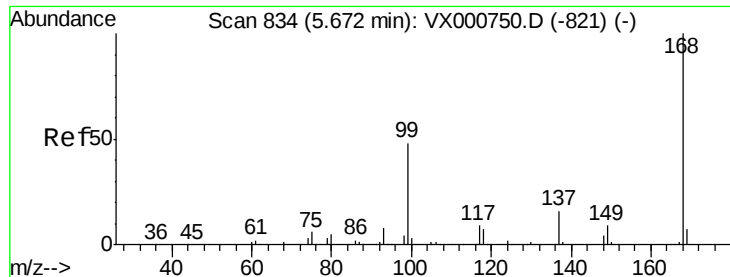
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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QLast Update : Tue Apr 10 15:49:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

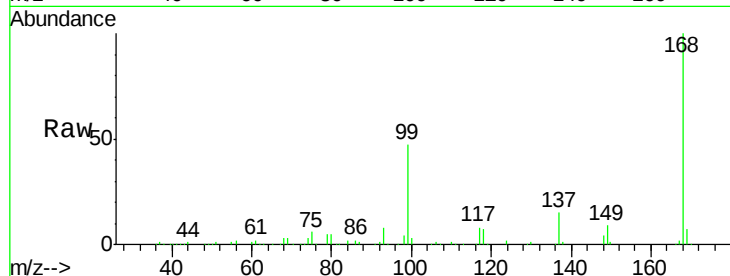
ClientSampled :

Tot Ion:168 Resp: 241213

Ion Ratio Lower Upper

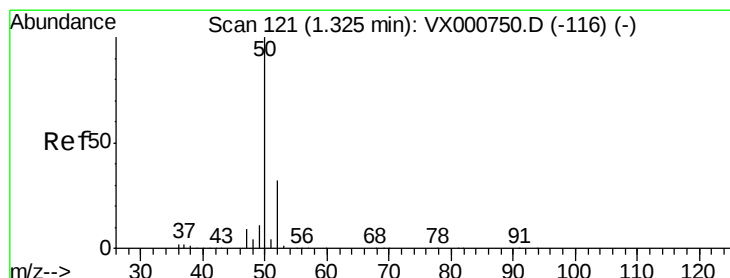
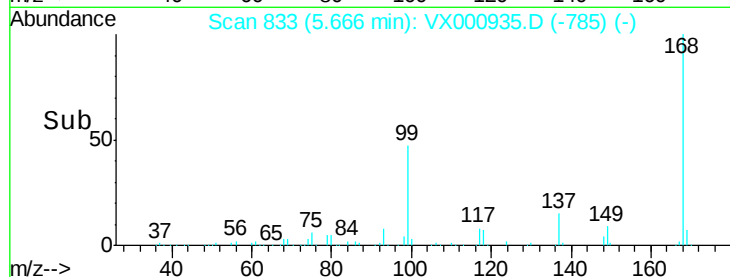
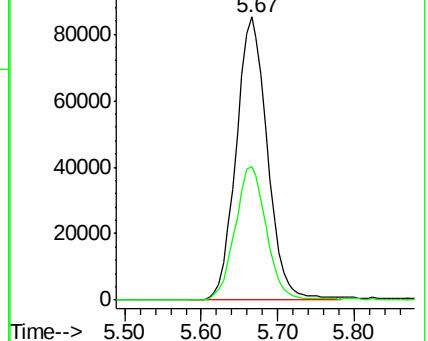
168 100

99 47.3 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.398 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX000935.D

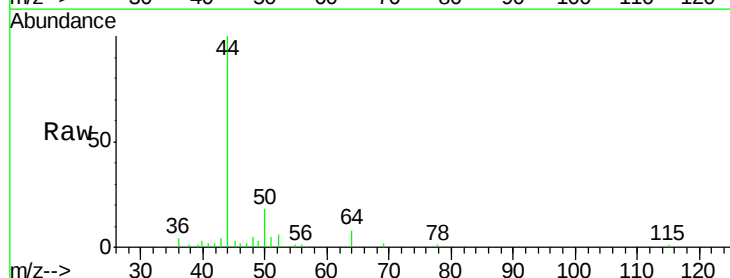
Acq: 16 Apr 2018 22:13

Tgt Ion: 50 Resp: 930

Ion Ratio Lower Upper

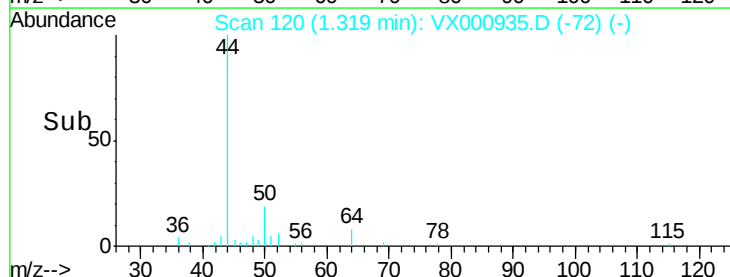
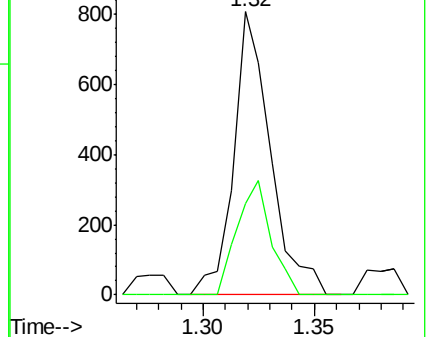
50 100

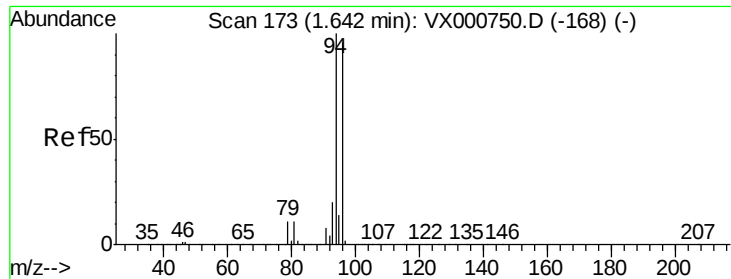
52 32.5 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.037 ug/l

RT: 1.64 min Scan# 172

Delta R.T. -0.01 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

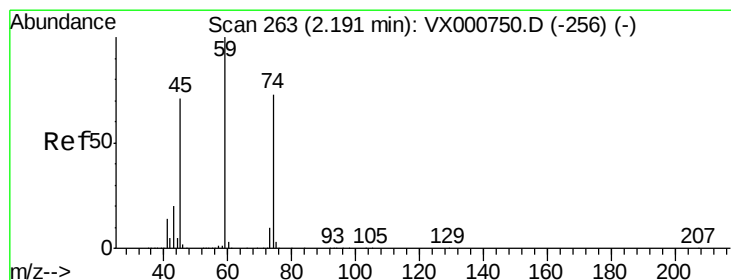
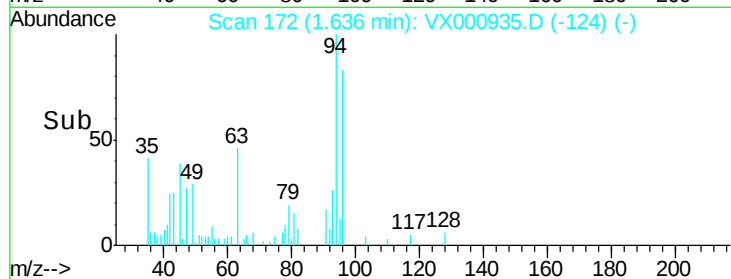
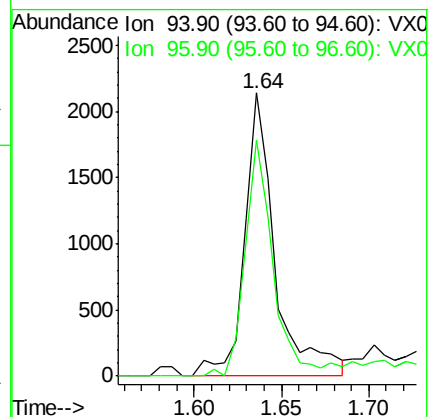
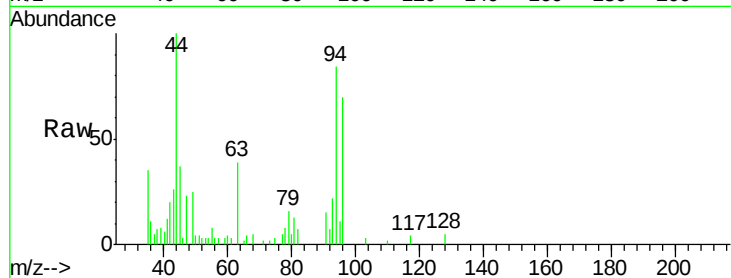
ClientSampleId :

Tot Ion: 94 Resp: 2599

Ion Ratio Lower Upper

94 100

96 83.4 77.0 115.6



#8

Diethyl Ether

Concen: 0.212 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX000935.D

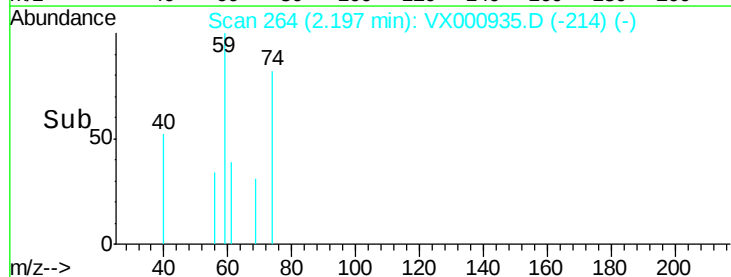
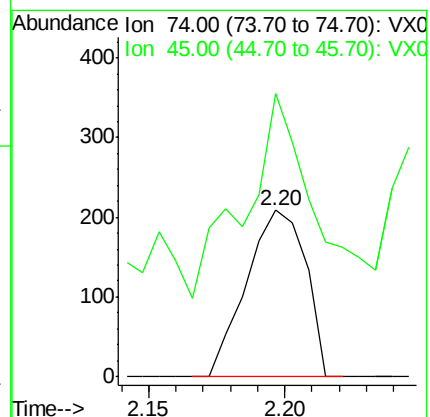
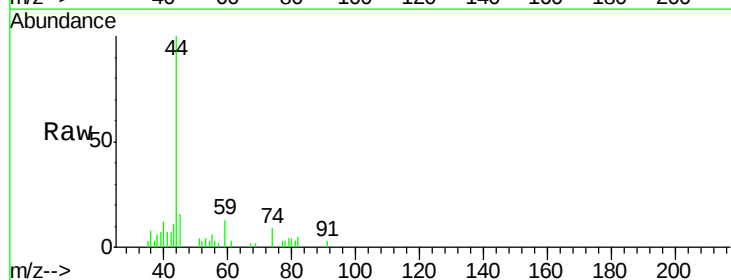
Acq: 16 Apr 2018 22:13

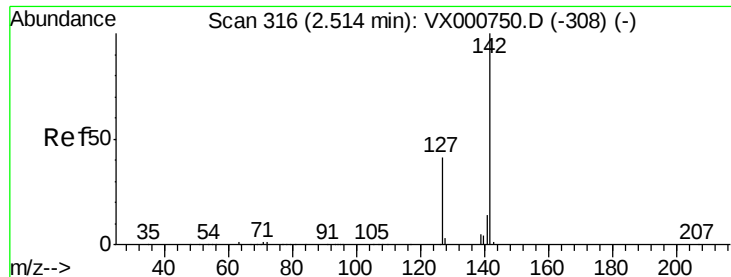
Tgt Ion: 74 Resp: 314

Ion Ratio Lower Upper

74 100

45 142.0 48.6 145.8

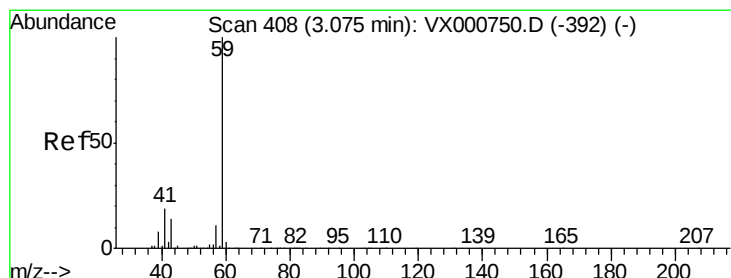
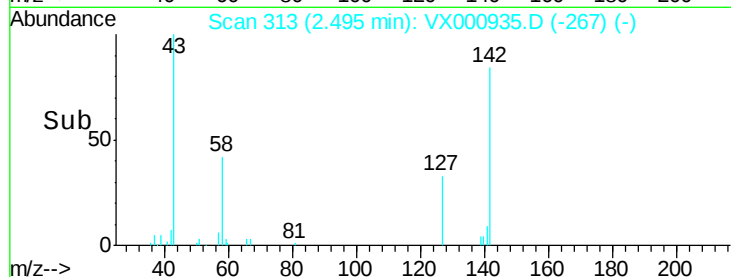
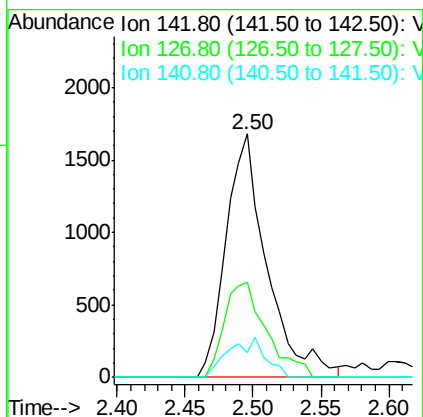
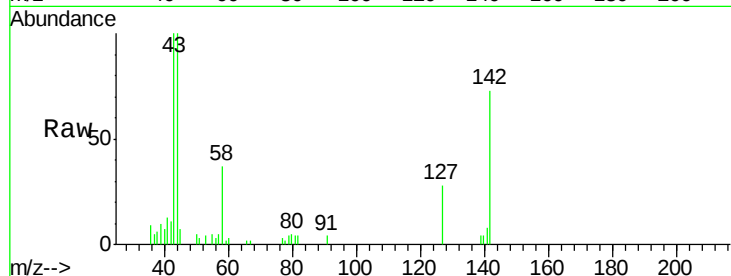




#10
Methvl Iodide
Concen: 9.841 ug/l
RT: 2.50 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX000935.D
Acq: 16 Apr 2018 22:13

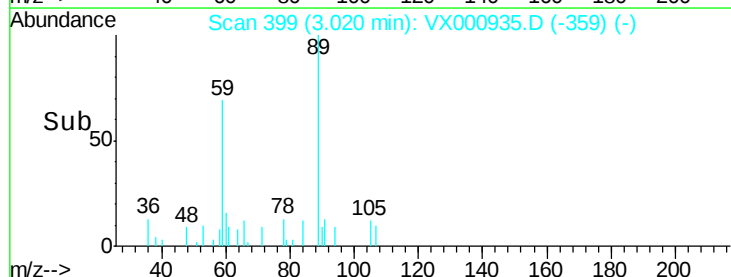
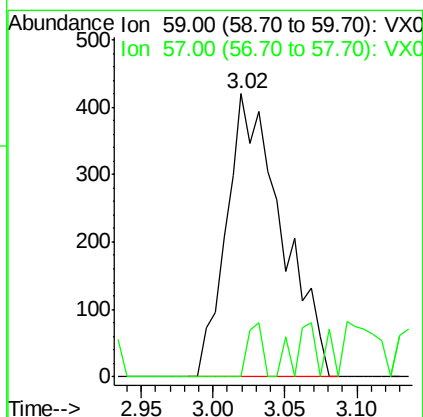
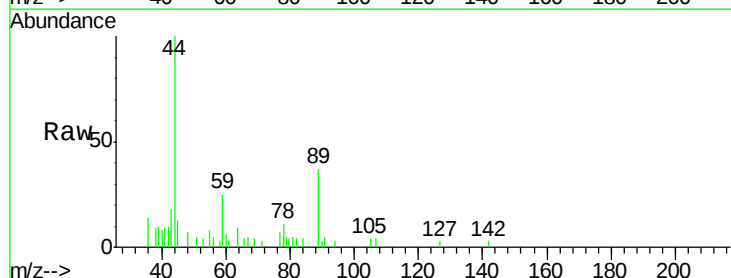
Instrument :
MSVOA_X
ClientSampled :

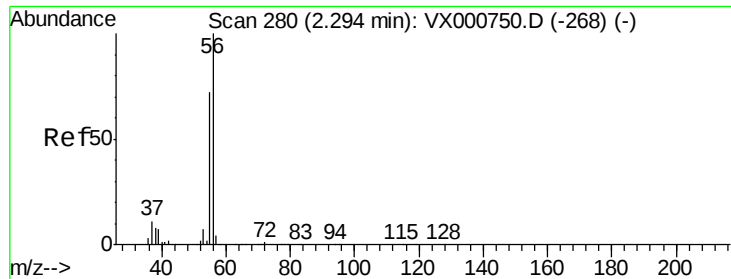
Tot Ion:142 Resp: 3506
Ion Ratio Lower Upper
142 100
127 40.1 32.6 49.0
141 14.6 11.5 17.3



#11
Tert butyl alcohol
Concen: 2.074 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.05 min
Lab File: VX000935.D
Acq: 16 Apr 2018 22:13

Tgt Ion: 59 Resp: 1120
Ion Ratio Lower Upper
59 100
57 4.9 8.4 12.6#





#13

Acrolein

Concen: 0.847 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

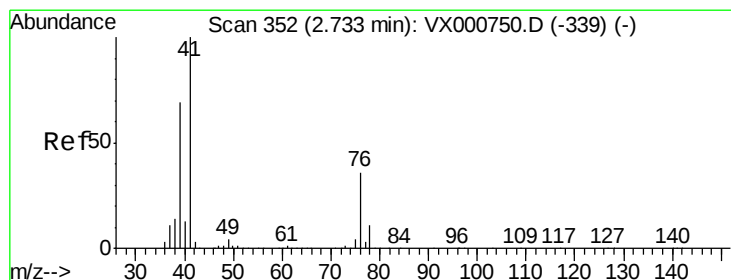
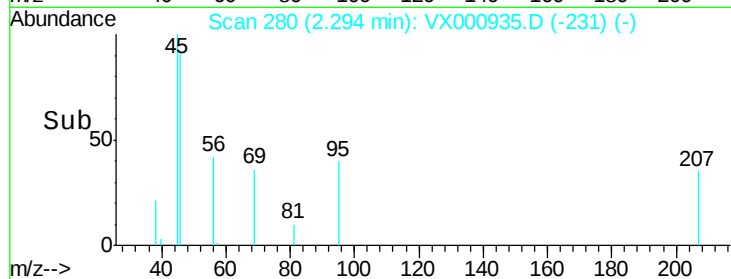
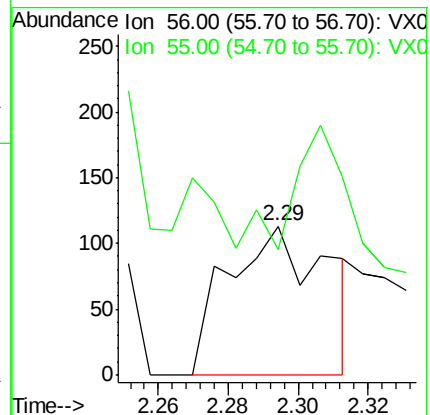
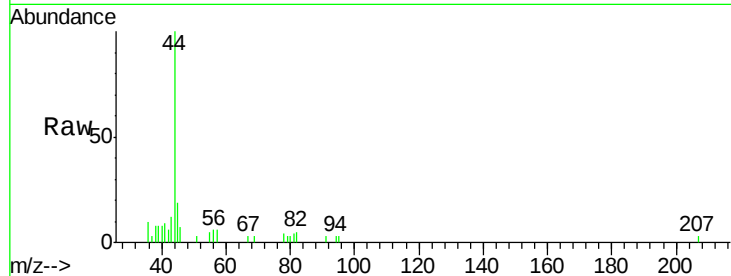
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 59.0 58.7 88.1



#14

Allyl chloride

Concen: 1.291 ug/l

RT: 2.85 min Scan# 371

Delta R.T. 0.12 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

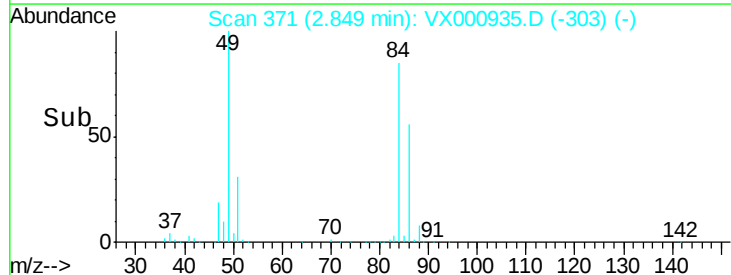
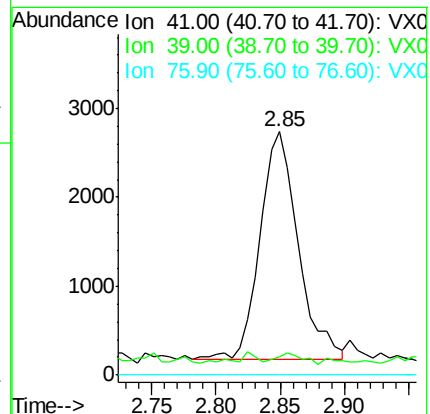
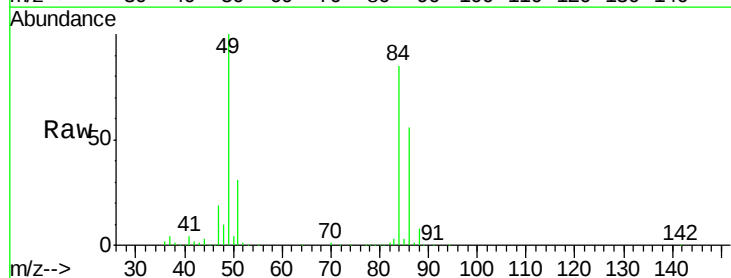
Tgt Ion: 41 Resp: 5286

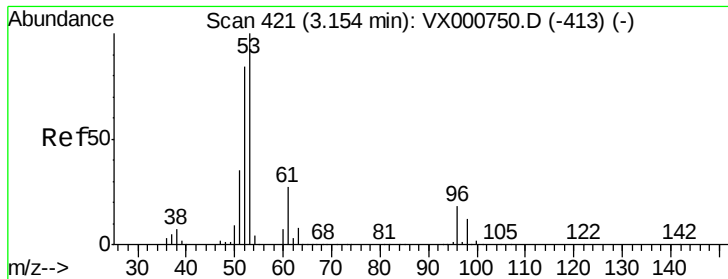
Ion Ratio Lower Upper

41 100

39 3.5 51.5 77.3#

76 0.0 26.5 39.7#





#15

Acrylonitrile

Concen: 0.444 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.02 min

Lab File: VX000935.D

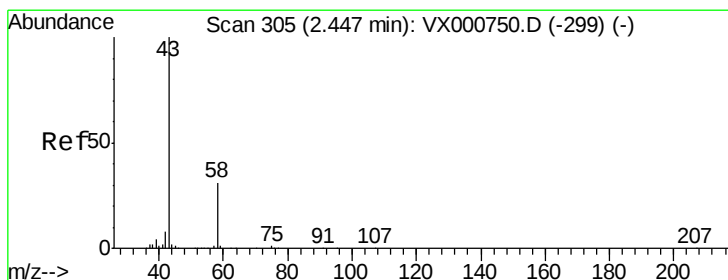
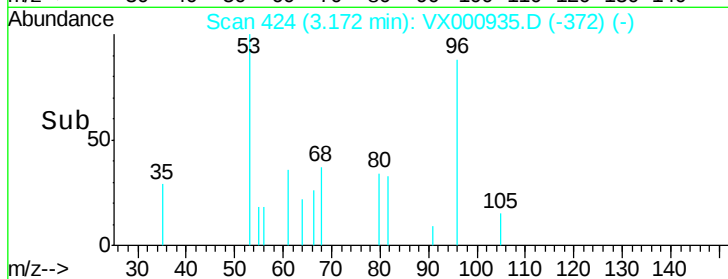
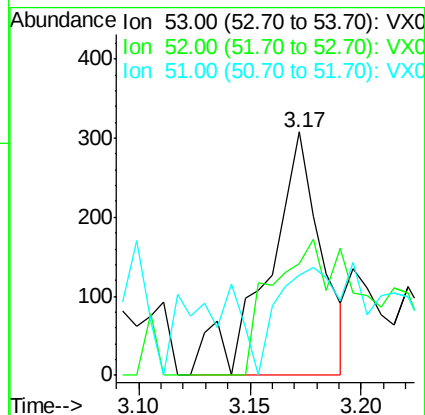
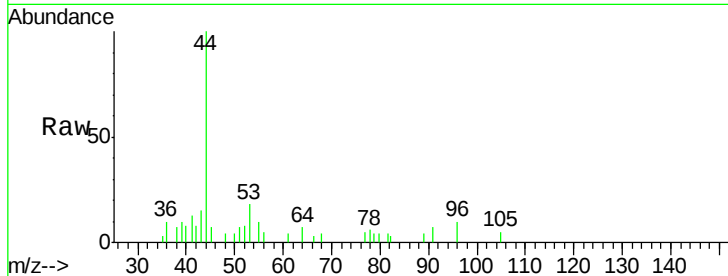
Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	53	Resp:	511
Ion	Ratio	Lower	Upper
53	100		
52	88.6	66.5	99.7
51	0.0	28.8	43.2#



#16

Acetone

Concen: 5.283 ug/l

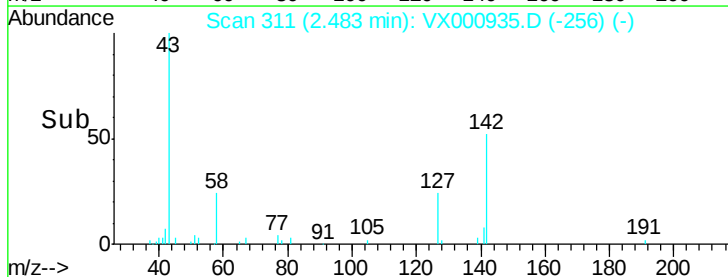
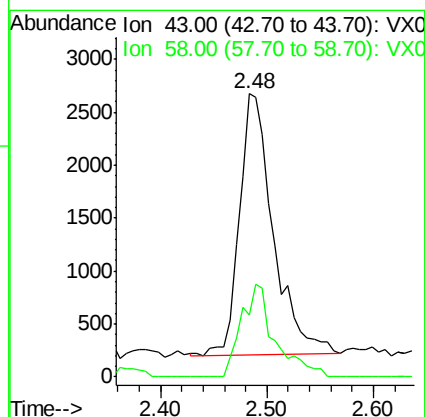
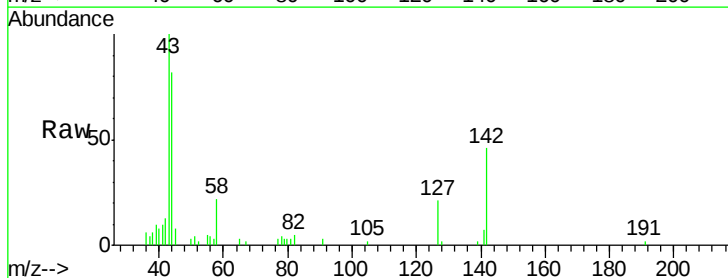
RT: 2.48 min Scan# 311

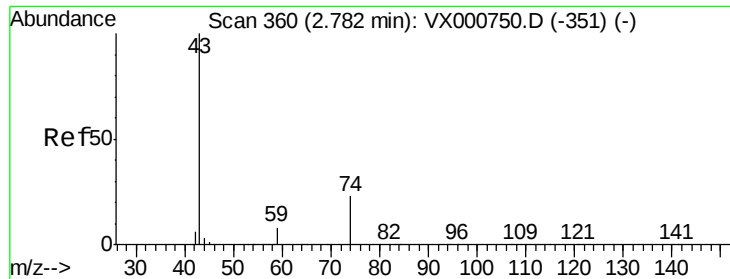
Delta R.T. 0.04 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Tgt Ion:	43	Resp:	5541
Ion	Ratio	Lower	Upper
43	100		
58	23.7	24.6	37.0#





#18

Methyl Acetate

Concen: 1.186 ug/l

RT: 2.80 min Scan# 363

Delta R.T. 0.02 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

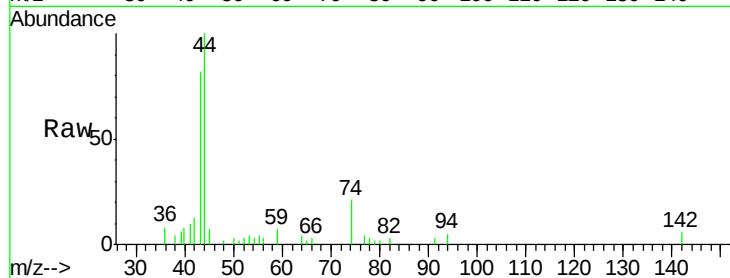
ClientSampled :

Tot Ion: 43 Resp: 3220

Ion Ratio Lower Upper

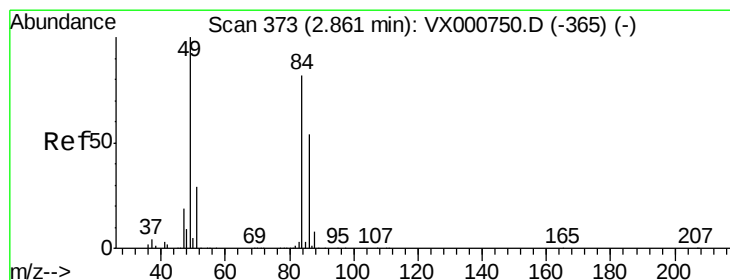
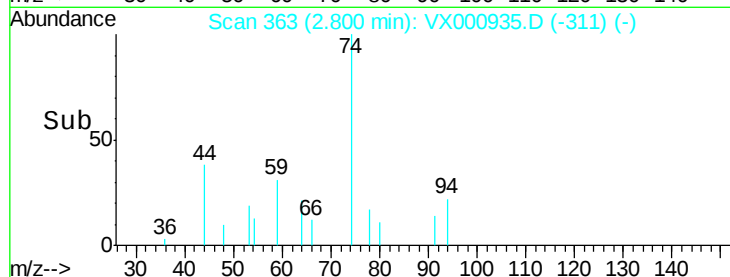
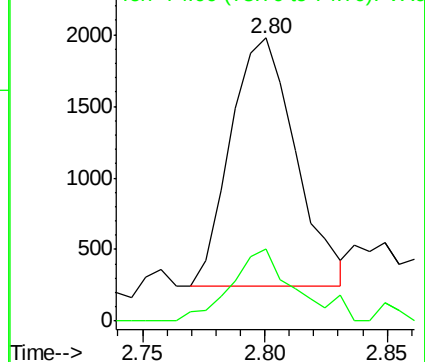
43 100

74 28.3 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 55.071 ug/l

RT: 2.85 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Tgt Ion: 84 Resp: 134344

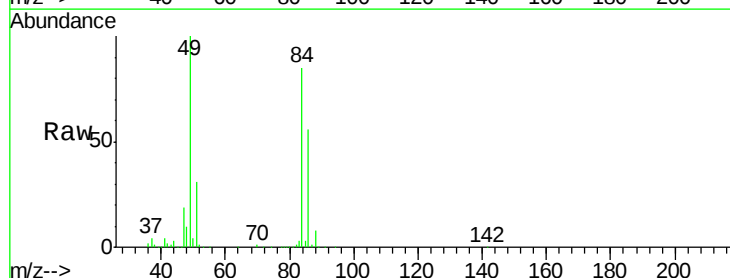
Ion Ratio Lower Upper

84 100

49 117.9 98.1 147.1

51 36.1 28.9 43.3

86 66.1 52.7 79.1

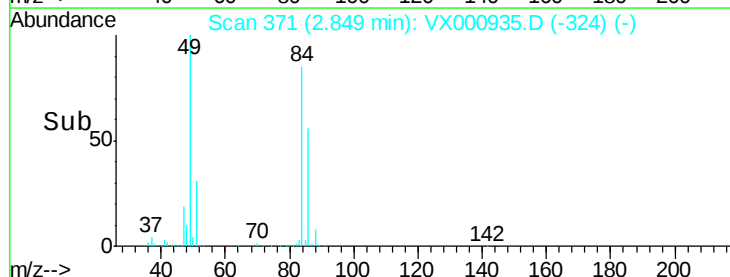
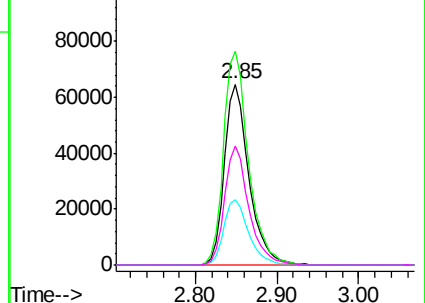


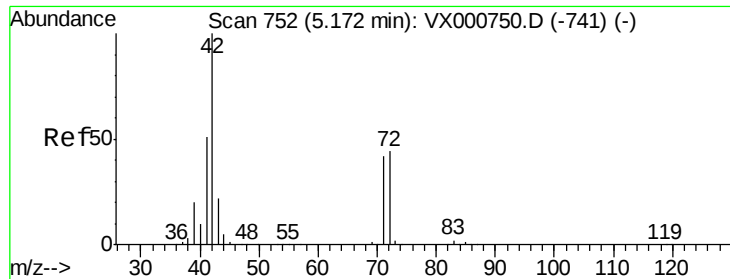
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#29

Tetrahydrofuran

Concen: 1.574 ug/l

RT: 5.21 min Scan# 758

Delta R.T. 0.04 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

ClientSampleId :

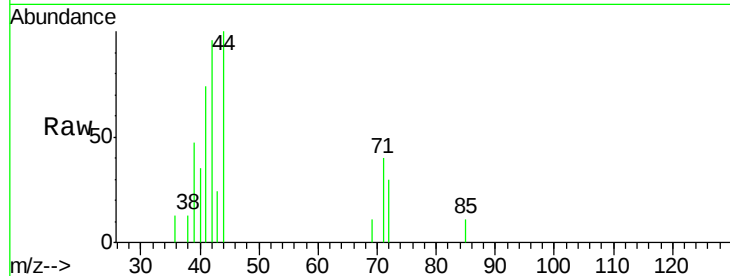
Tot Ion: 42 Resp: 1731

Ion Ratio Lower Upper

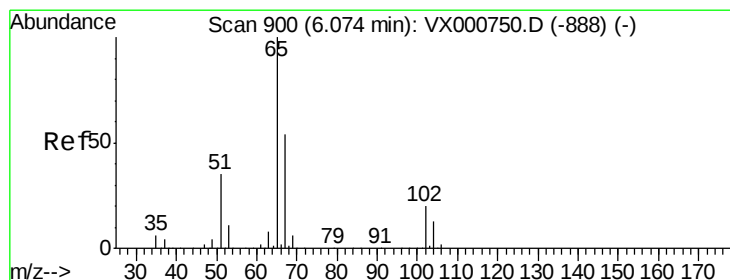
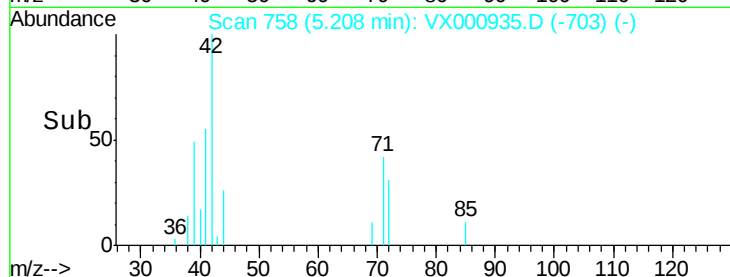
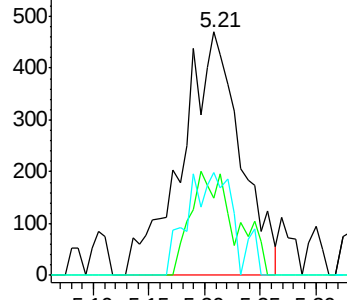
42 100

72 25.1 35.1 52.7#

71 30.4 32.8 49.2#



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



#33

1,2-Dichloroethane-d4

Concen: 46.691 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX000935.D

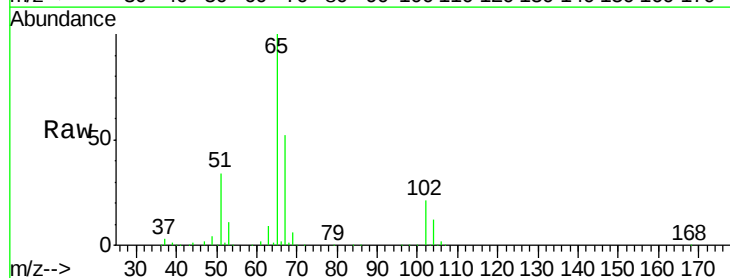
Acq: 16 Apr 2018 22:13

Tgt Ion: 65 Resp: 142006

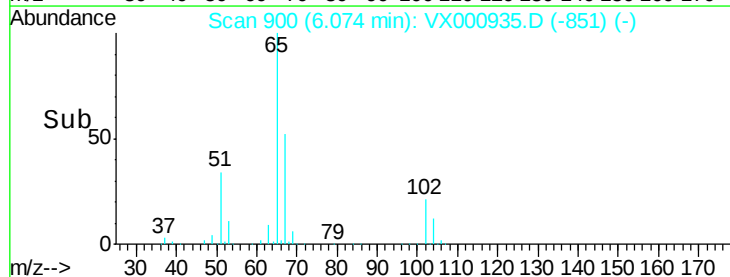
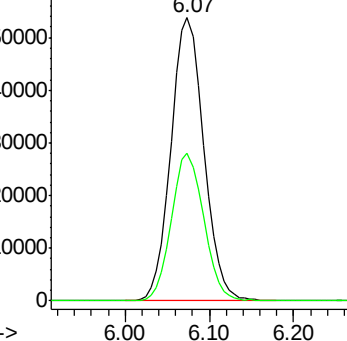
Ion Ratio Lower Upper

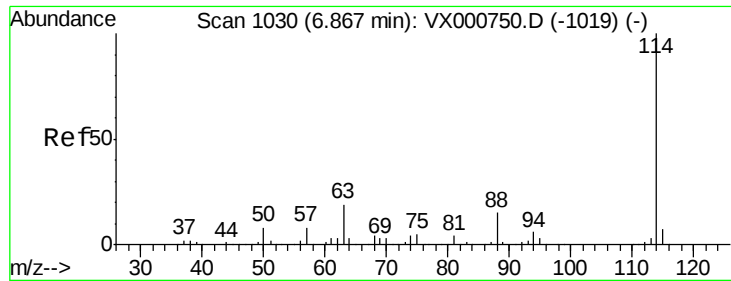
65 100

67 51.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

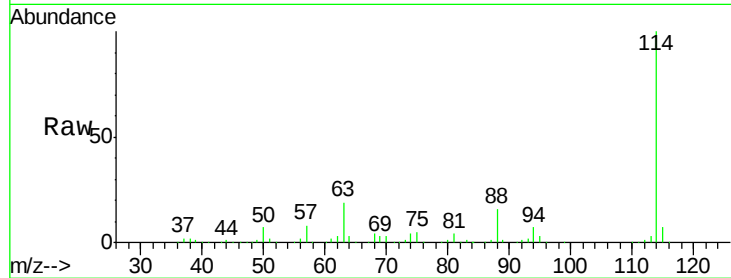




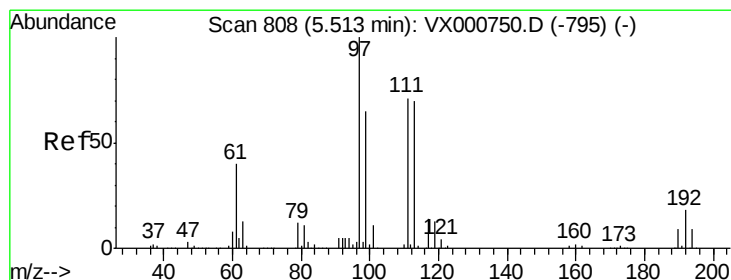
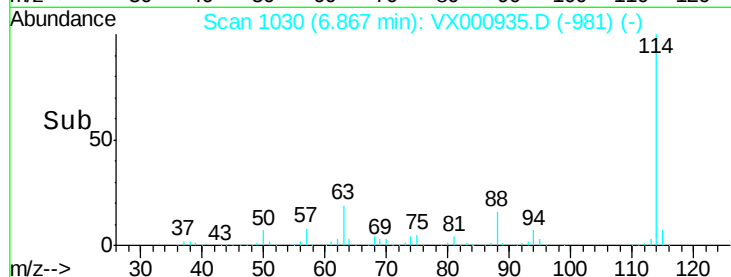
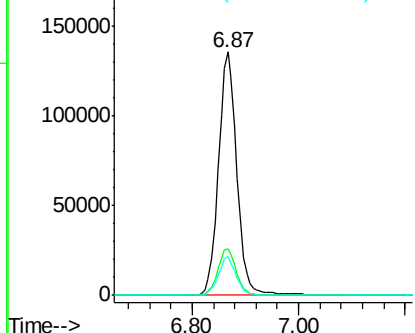
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VX000935.D
Acq: 16 Apr 2018 22:13

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 327412
Ion Ratio Lower Upper
114 100
63 19.2 0.0 38.4
88 15.9 0.0 31.0

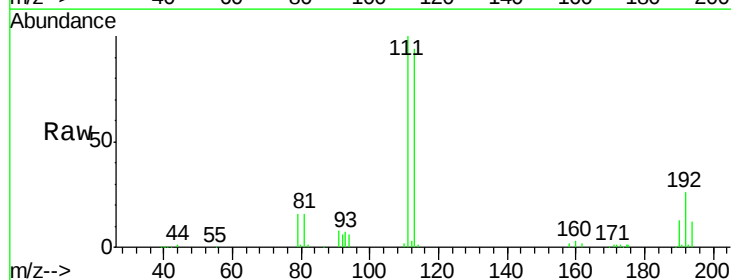


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX
Ion 87.90 (87.60 to 88.60): VX

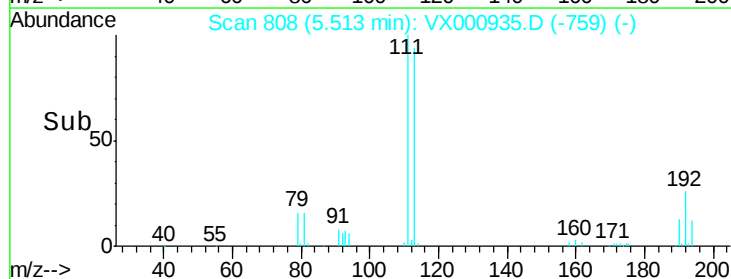
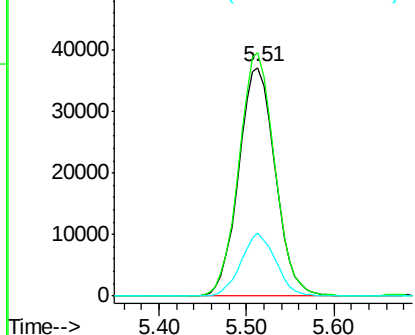


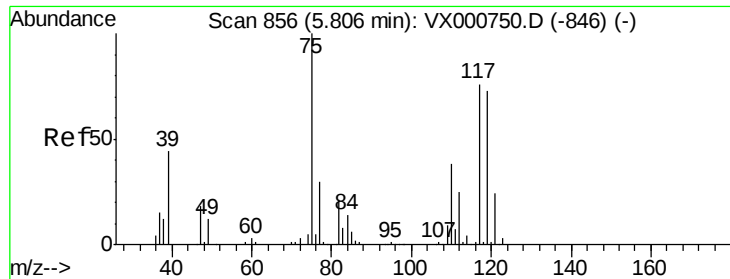
#35
Dibromofluoromethane
Concen: 42.861 ug/l
RT: 5.51 min Scan# 808
Delta R.T. -0.00 min
Lab File: VX000935.D
Acq: 16 Apr 2018 22:13

Tgt Ion:113 Resp: 108118
Ion Ratio Lower Upper
113 100
111 104.3 81.5 122.3
192 26.3 20.4 30.6



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

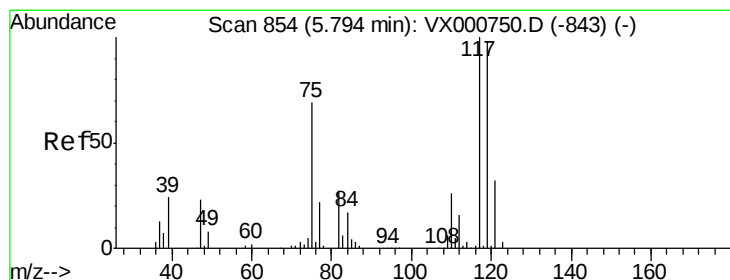
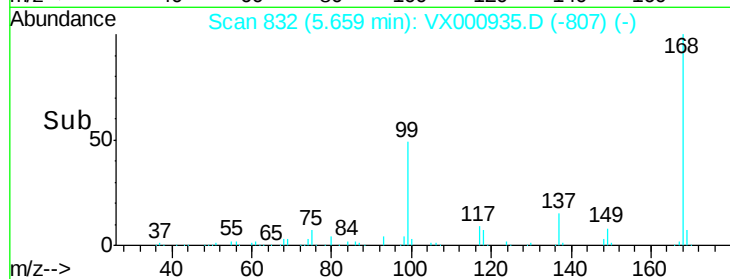
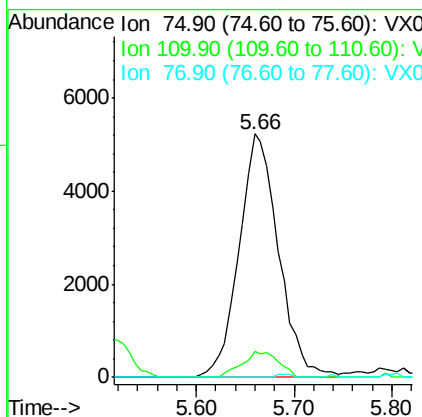
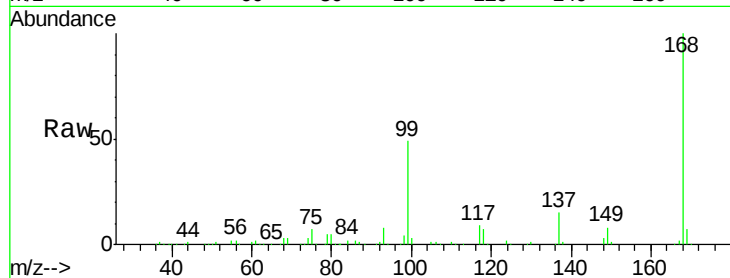




#36
 1,1-Dichloropropene
 Concen: 4.053 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.15 min
 Lab File: VX000935.D
 Acq: 16 Apr 2018 22:13

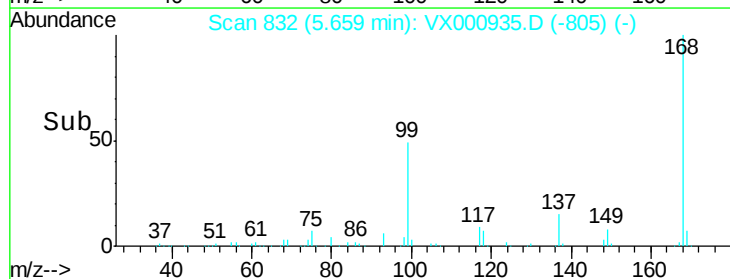
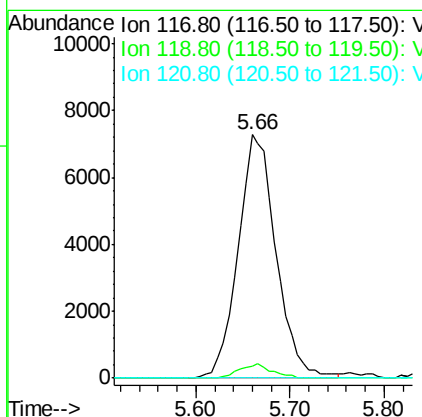
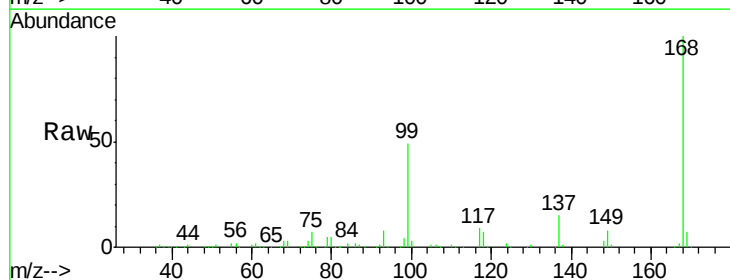
Instrument :
 MSVOA_X
 ClientSampleId :

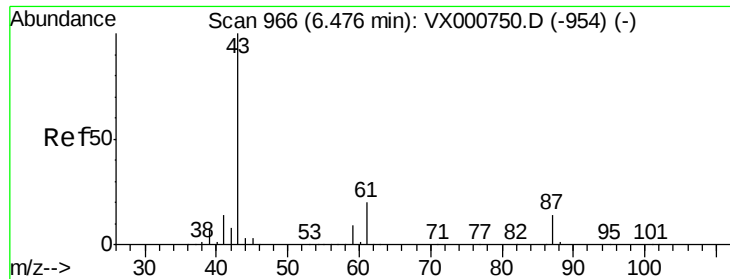
Tot Ion: 75 Resp: 14616
 Ion Ratio Lower Upper
 75 100
 110 9.8 19.2 57.6#
 77 0.0 25.4 38.2#



#38
 Carbon Tetrachloride
 Concen: 5.088 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.13 min
 Lab File: VX000935.D
 Acq: 16 Apr 2018 22:13

Tgt Ion: 117 Resp: 20535
 Ion Ratio Lower Upper
 117 100
 119 5.2 78.4 117.6#
 121 0.0 25.4 38.0#





#43

Isopropyl Acetate

Concen: 0.292 ug/l

RT: 6.51 min Scan# 972

Delta R.T. 0.04 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

ClientSampleId :

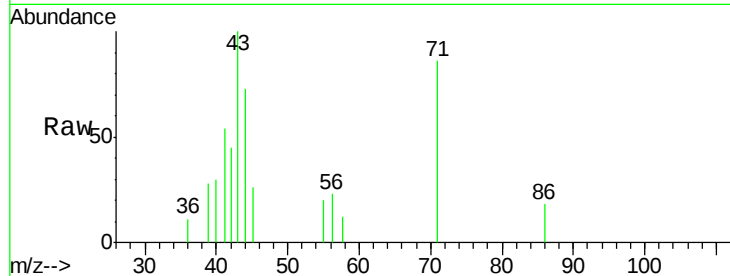
Tot Ion: 43 Resp: 1764

Ion Ratio Lower Upper

43 100

61 0.0 15.6 23.4#

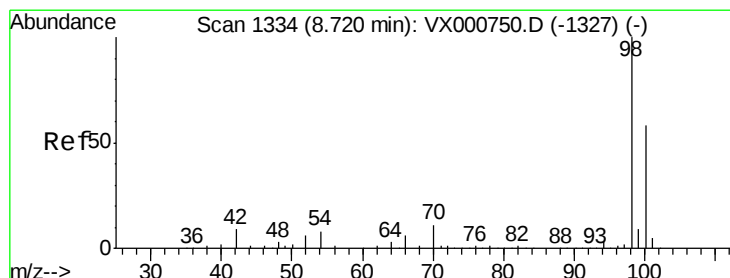
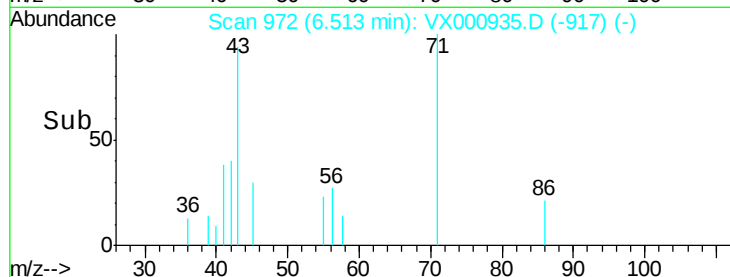
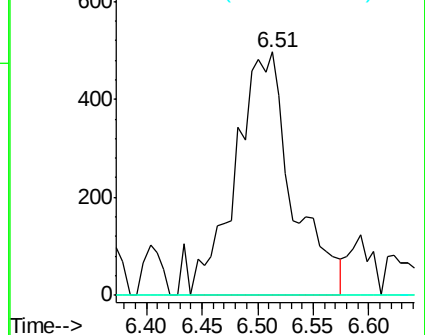
87 0.0 10.7 16.1#



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



#50

Toluene-d8

Concen: 48.562 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000935.D

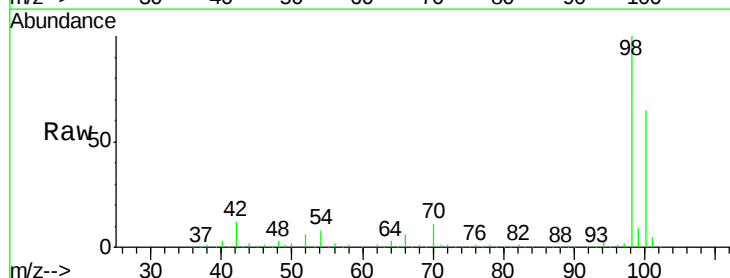
Acq: 16 Apr 2018 22:13

Tgt Ion: 98 Resp: 456108

Ion Ratio Lower Upper

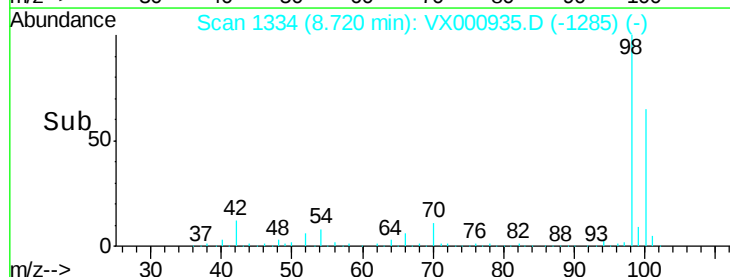
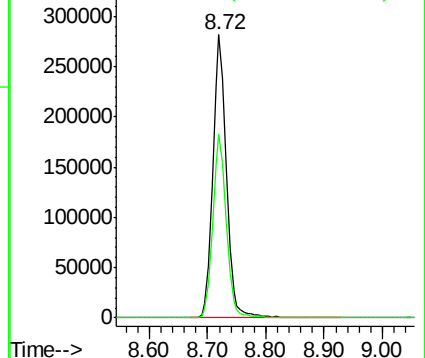
98 100

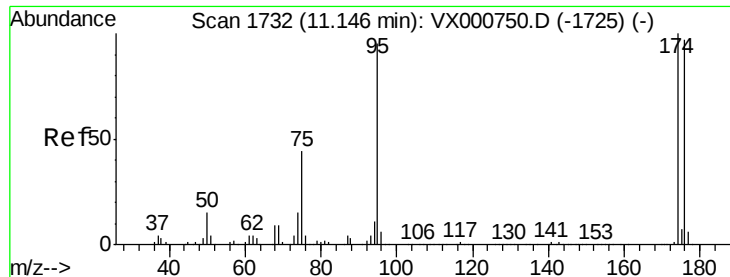
100 64.9 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

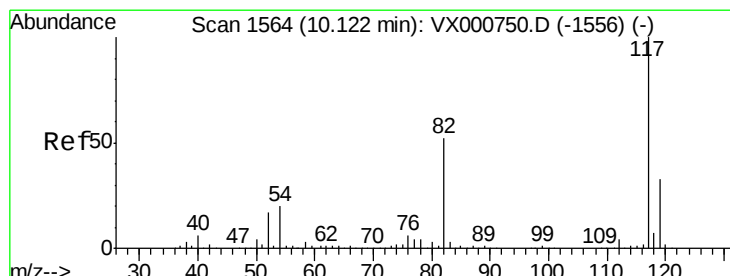
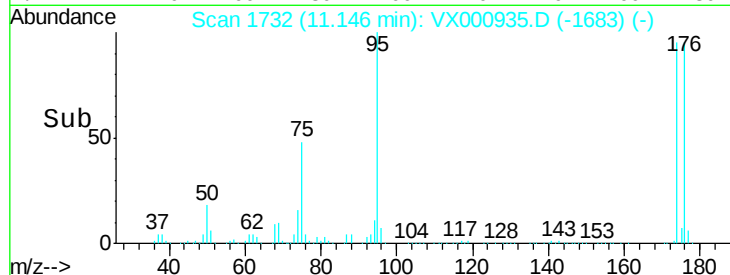
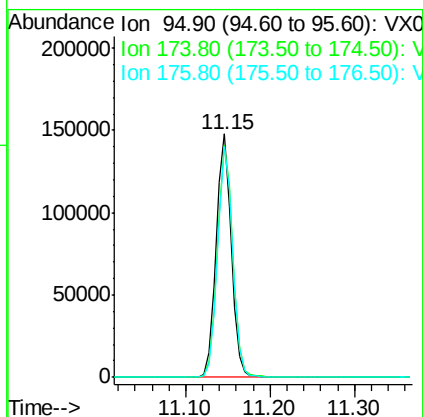
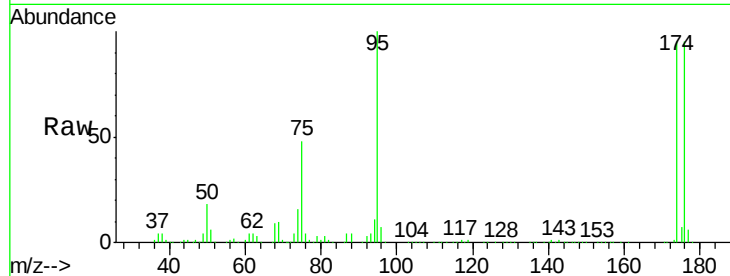




#62
4-Bromofluorobenzene
Concen: 47.587 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VX000935.D
Acq: 16 Apr 2018 22:13

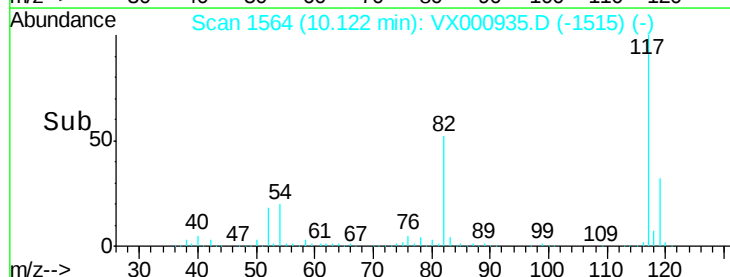
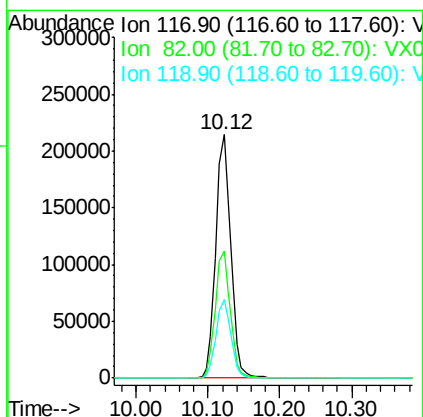
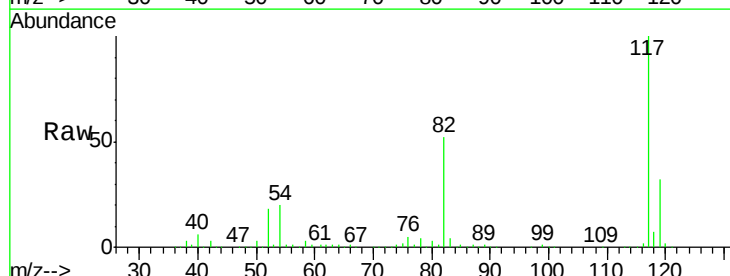
Instrument :
MSVOA_X
ClientSampleId :

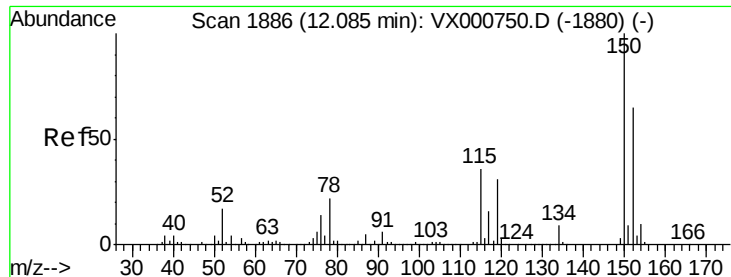
Tot Ion: 95 Resp: 184918
Ion Ratio Lower Upper
95 100
174 96.9 0.0 198.4
176 94.7 0.0 194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000935.D
Acq: 16 Apr 2018 22:13

Tgt Ion: 117 Resp: 309718
Ion Ratio Lower Upper
117 100
82 52.1 41.9 62.9
119 32.2 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

ClientSampleId :

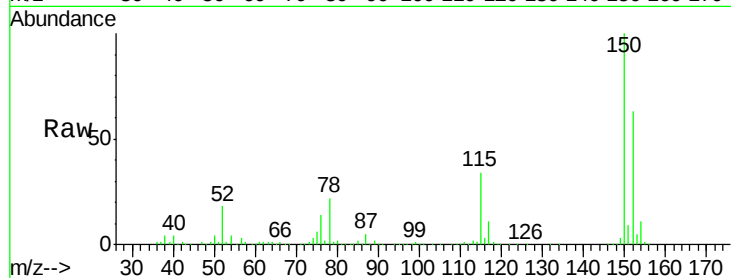
Tot Ion:152 Resp: 206869

Ion Ratio Lower Upper

152 100

115 53.2 37.9 113.7

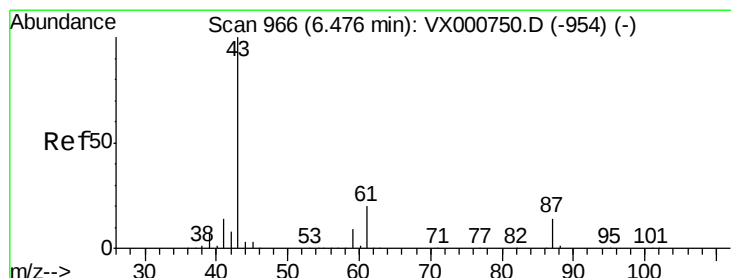
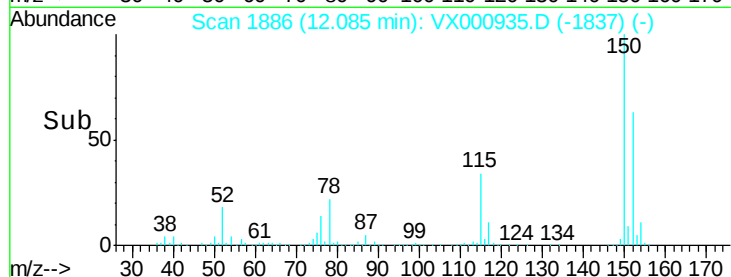
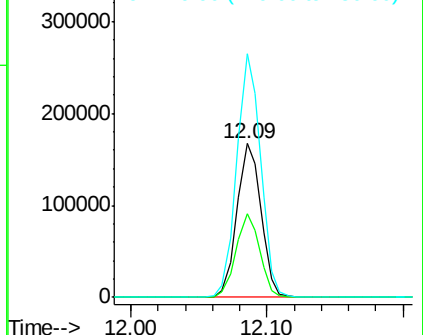
150 156.8 0.0 348.0



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



#74

N-ethyl acetate

Concen: 0.298 ug/l

RT: 6.51 min Scan# 972

Delta R.T. 0.04 min

Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Tgt Ion: 43 Resp: 1764

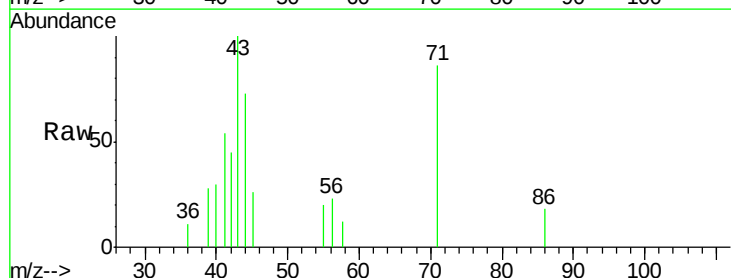
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 14.3 0.0 0.0#

61 0.0 15.6 23.4#

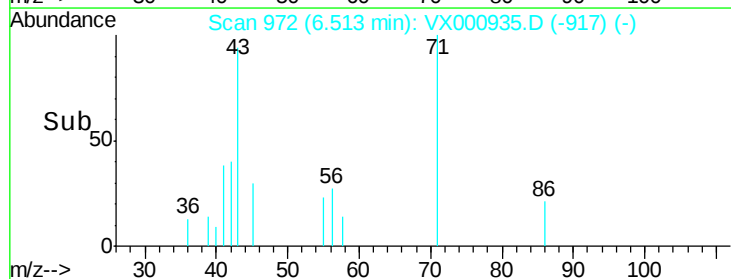
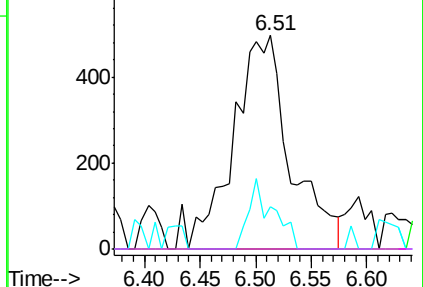


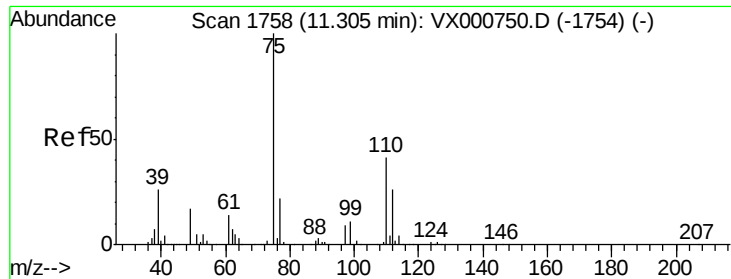
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

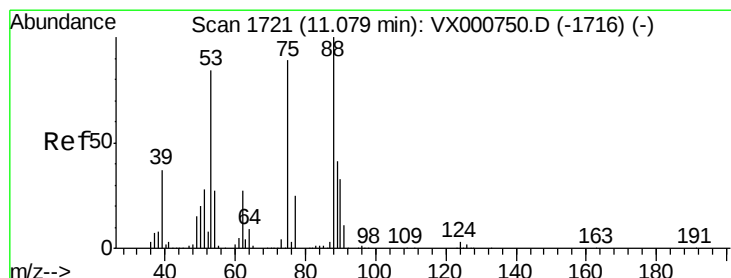
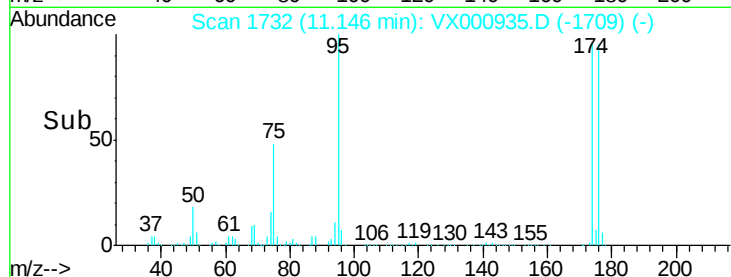
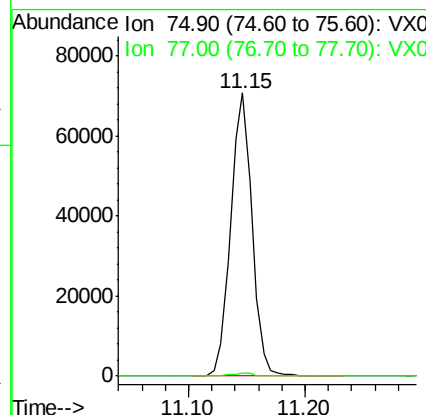
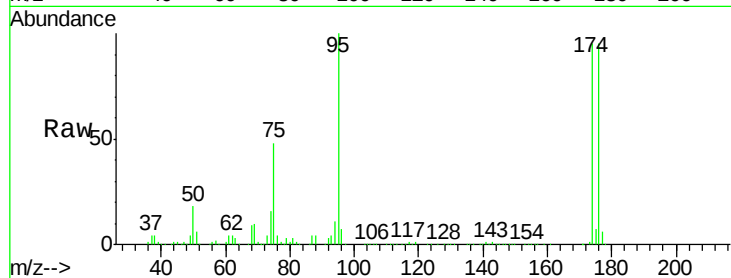




#76
 1,2,3-Trichloropropane
 Concen: 25.144 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.16 min
 Lab File: VX000935.D
 Acq: 16 Apr 2018 22:13

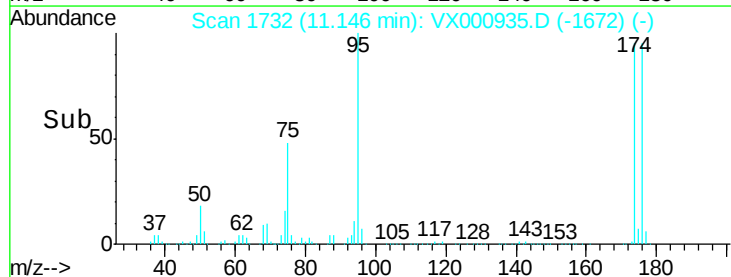
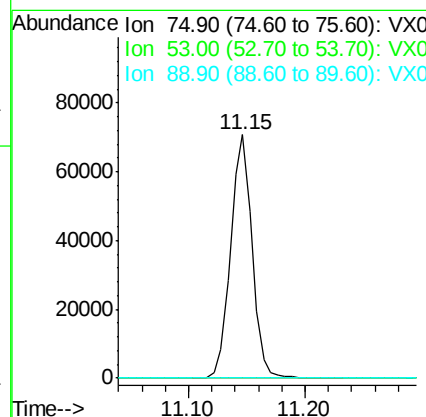
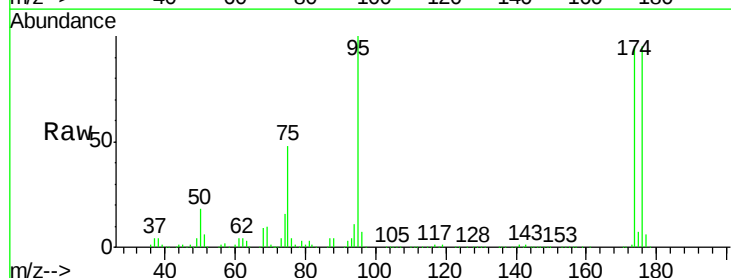
Instrument :
 MSVOA_X
 ClientSampleId :

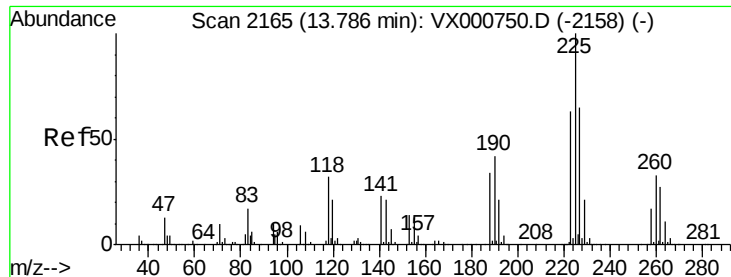
Tot Ion: 75 Resp: 89706
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.5 61.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.166 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.07 min
 Lab File: VX000935.D
 Acq: 16 Apr 2018 22:13

Tgt Ion: 75 Resp: 89706
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 40.9 61.3#





#94

Hexachlorobutadiene

Concen: 0.406 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. -0.00 min

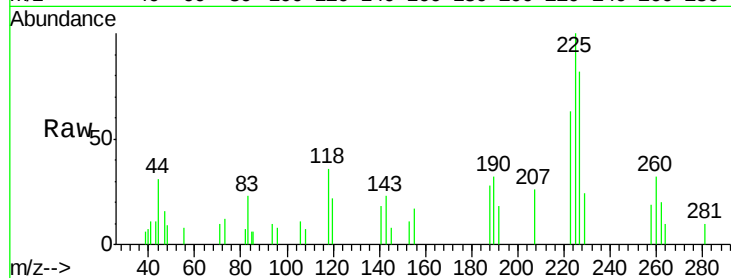
Lab File: VX000935.D

Acq: 16 Apr 2018 22:13

Instrument :

MSVOA_X

ClientSampleId :



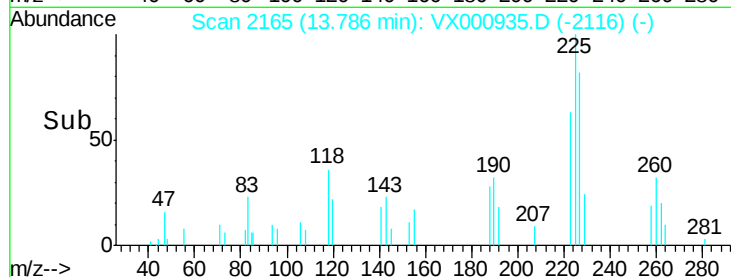
Tot Ion:225 Resp: 1171

Ion Ratio Lower Upper

225 100

223 61.1 31.2 93.6

227 65.5 32.3 96.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

