

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX010319\
 Data File : VX006894.D
 Acq On : 03 Jan 2019 14:59
 Operator : JC/MD
 Sample : K1017-25
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-5

Quant Time: Jan 04 00:20:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	669332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1012839	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	929192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	454213	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	344314	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
35) Dibromofluoromethane	5.50	113	302124	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	8.71	98	1189783	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
62) 4-Bromofluorobenzene	11.13	95	430287	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	

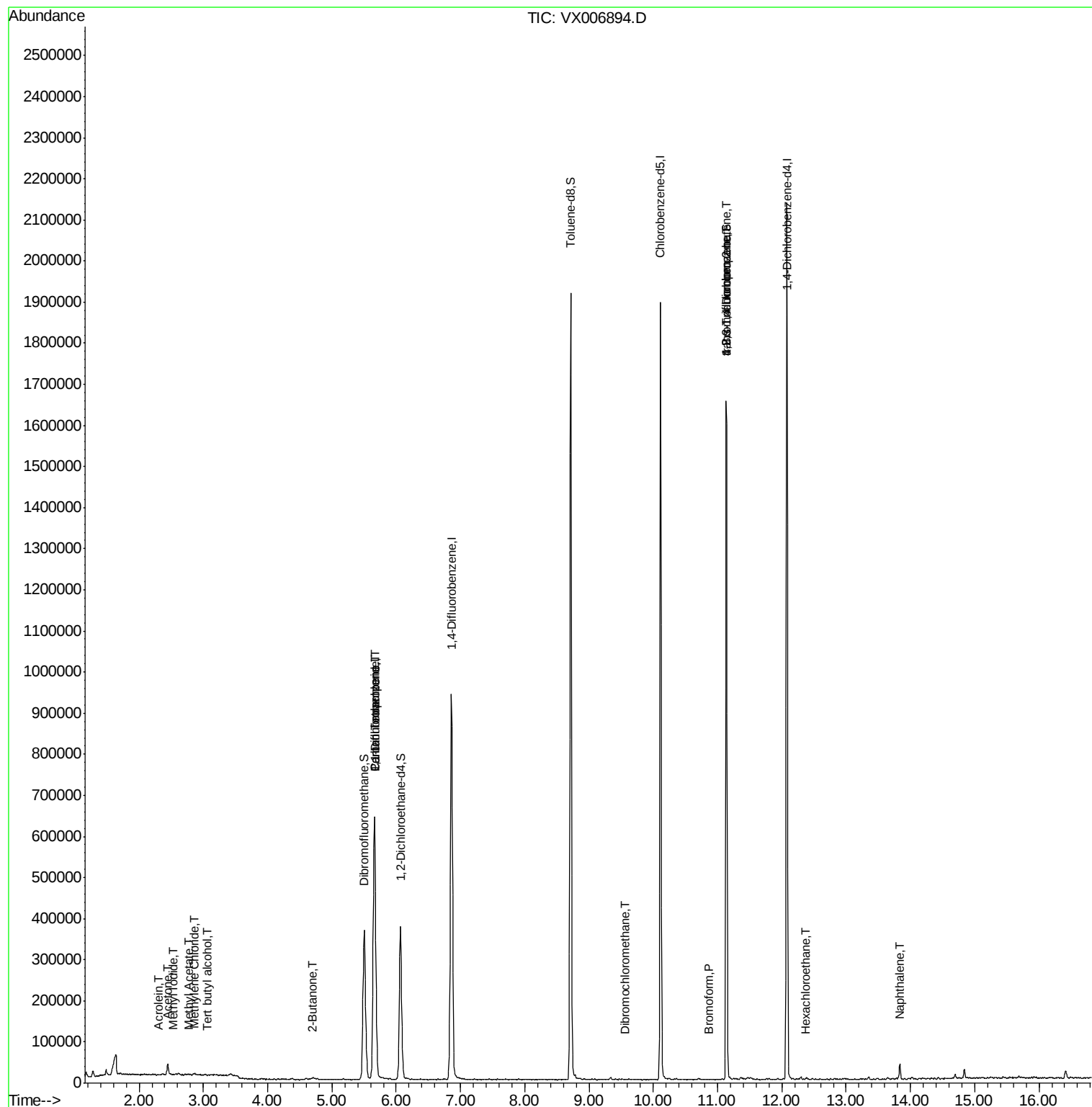
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1756	Below Cal		91
10) Methyl Iodide	2.52	142	1945	0.215	ug/l #	93
11) Tert butyl alcohol	3.07	59	710	0.441	ug/l #	79
13) Acrolein	2.30	56	1097	1.010	ug/l #	76
16) Acetone	2.45	43	27305	8.239	ug/l	96
18) Methyl Acetate	2.78	43	2594	0.266	ug/l #	73
20) Methylene Chloride	2.85	84	2293	0.335	ug/l #	79
25) 2-Butanone	4.70	43	8832	1.895	ug/l	95
28) Bromochloromethane	5.03	49	309	Below Cal	#	37
36) 1,1-Dichloropropene	5.66	75	41239	4.916	ug/l #	49
38) Carbon Tetrachloride	5.66	117	60563	7.429	ug/l #	13
49) 1,4-Dioxane	7.74	88	117	Below Cal	#	9
60) Dibromochloromethane	9.55	129	66	2.333	ug/l	74
71) Bromoform	10.86	173	99	4.476	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	203812	24.145	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	203812	71.492	ug/l #	10
90) Hexachloroethane	12.37	117	79	3.310	ug/l	68
95) Naphthalene	13.83	128	24040	0.721	ug/l	99

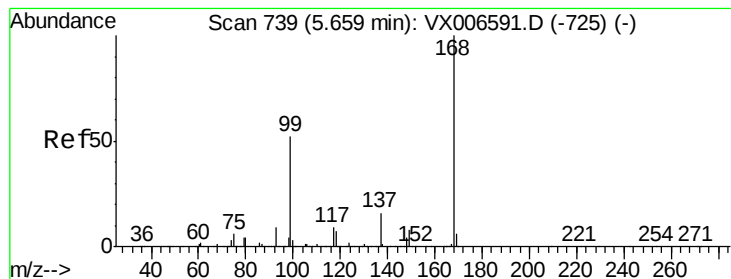
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Instrument :

MSVOA_X

ClientSampled :

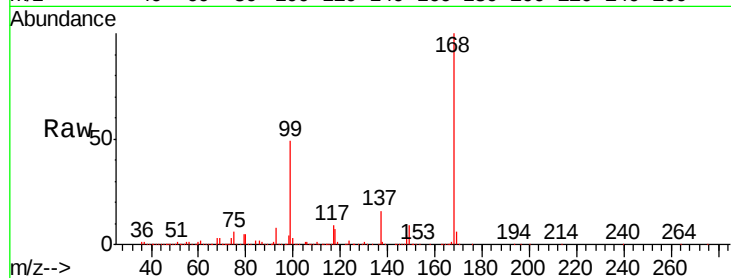
TP-5

Tgt Ion:168 Resp: 669332

Ion Ratio Lower Upper

168 100

99 48.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

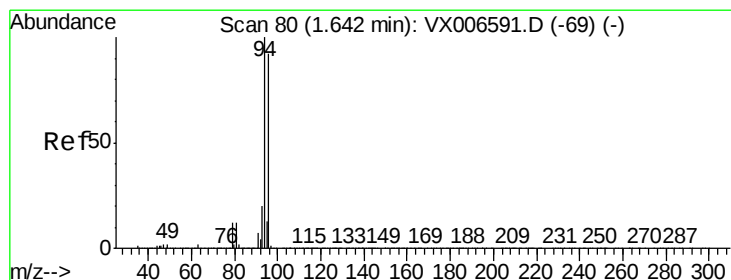
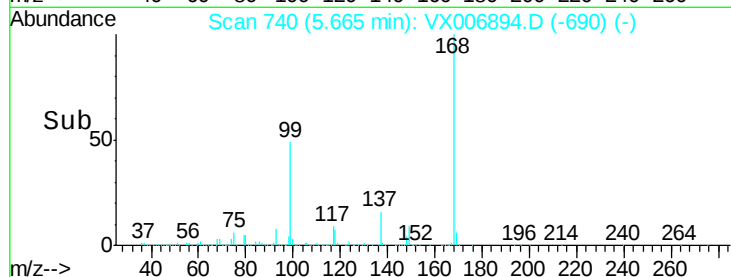
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006894.D

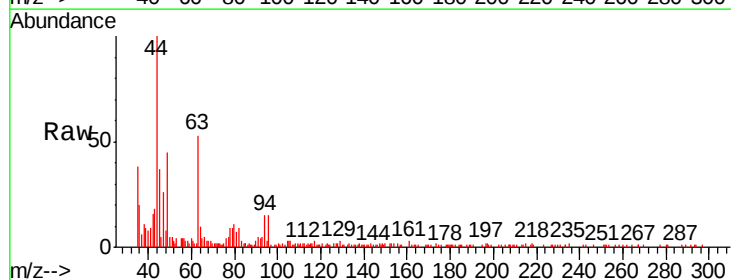
Acq: 03 Jan 2019 14:59

Tgt Ion: 94 Resp: 1756

Ion Ratio Lower Upper

94 100

96 99.9 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

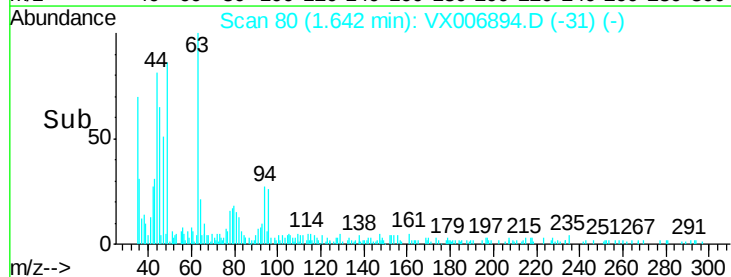
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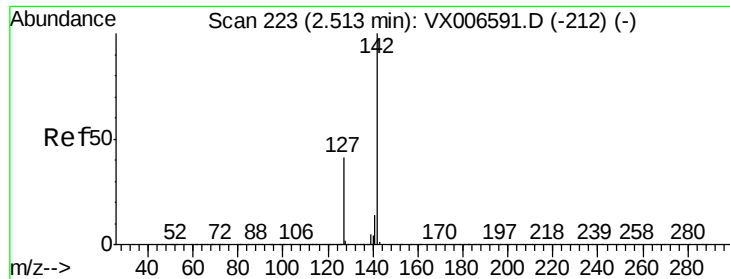
500

0

1.60 1.65 1.70

Time-->

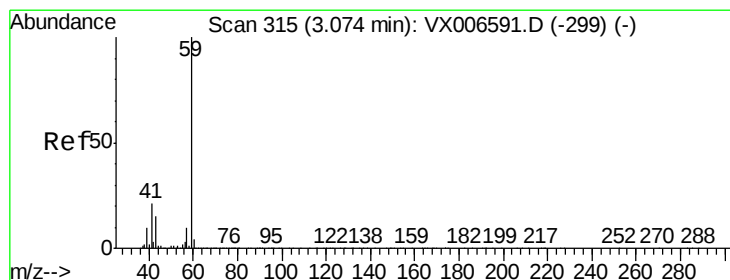
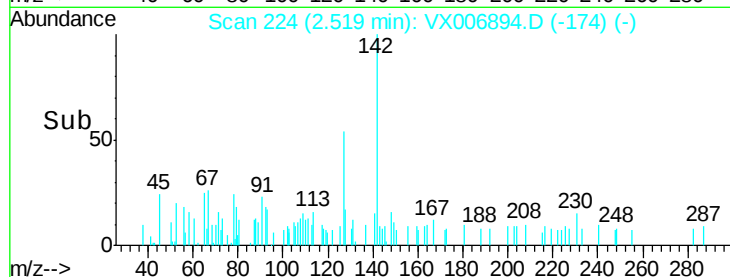
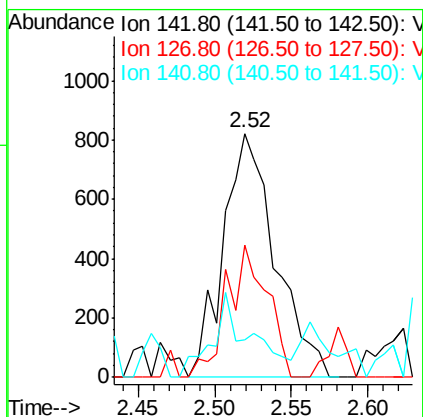
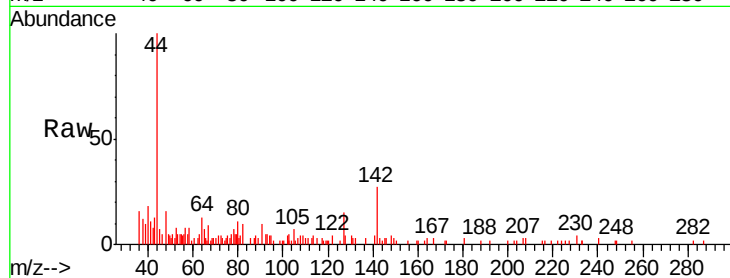




#10
Methyl Iodide
Concen: 0.215 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

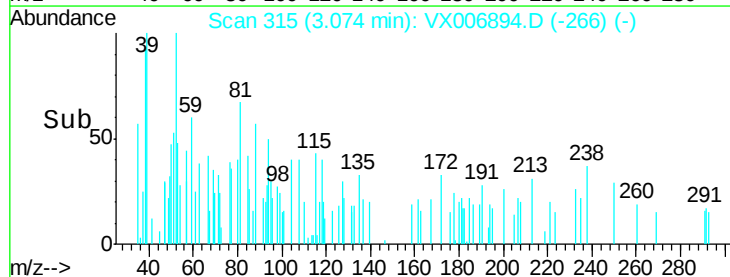
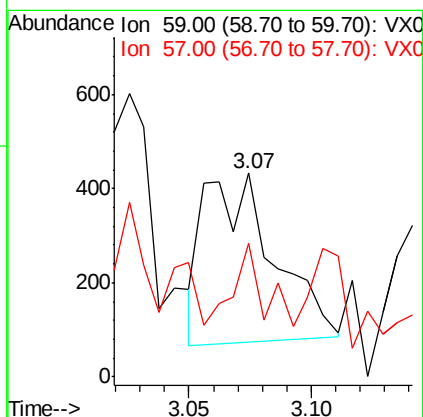
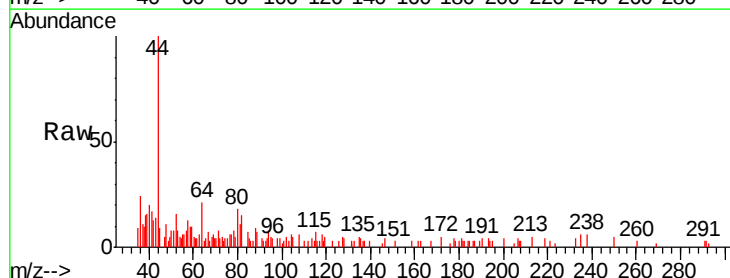
Instrument :
MSVOA_X
ClientSampled :
TP-5

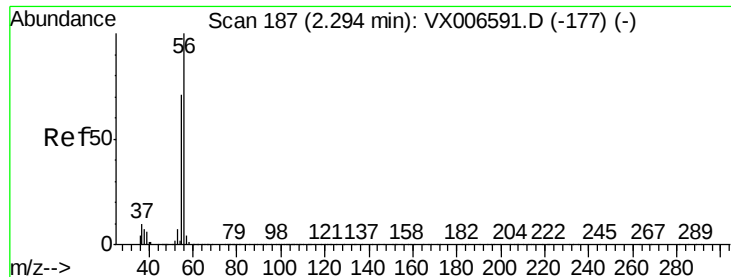
Tgt Ion:142 Resp: 1945
Ion Ratio Lower Upper
142 100
127 42.2 33.9 50.9
141 25.7 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.441 ug/l
RT: 3.07 min Scan# 315
Delta R.T. 0.00 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

Tgt Ion: 59 Resp: 710
Ion Ratio Lower Upper
59 100
57 18.6 8.5 12.7#





#13

Acrolein

Concen: 1.010 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Instrument :

MSVOA_X

ClientSampled :

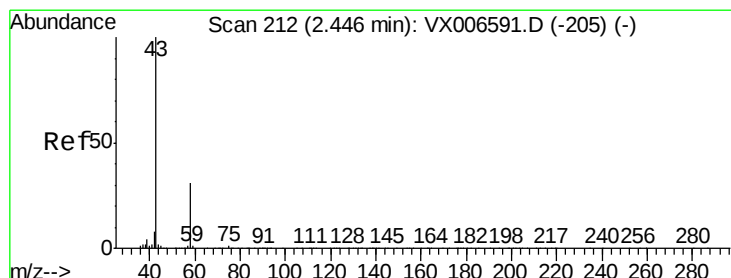
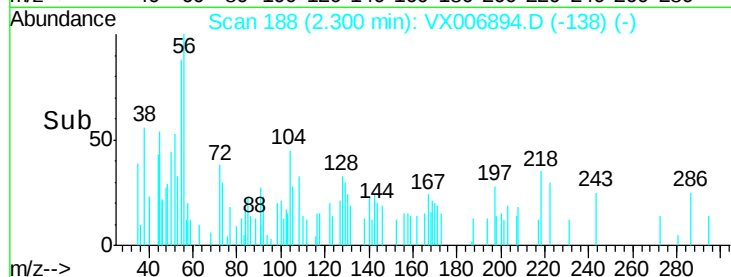
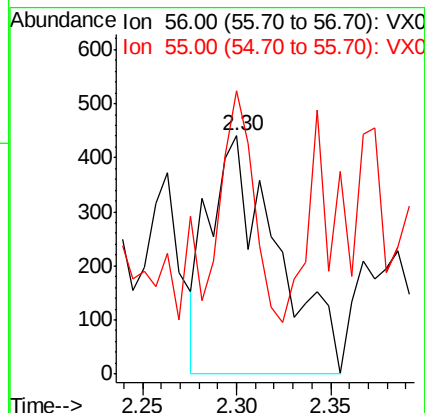
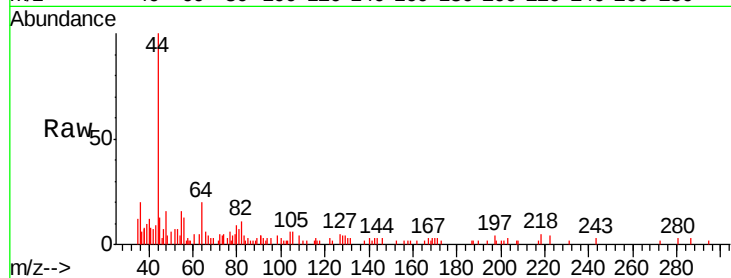
TP-5

Tgt Ion: 56 Resp: 1097

Ion Ratio Lower Upper

56 100

55 52.9 58.2 87.4#



#16

Acetone

Concen: 8.239 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006894.D

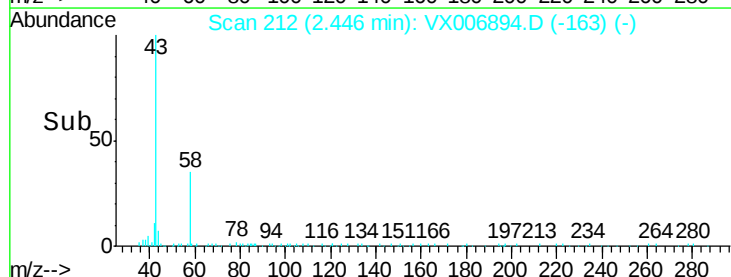
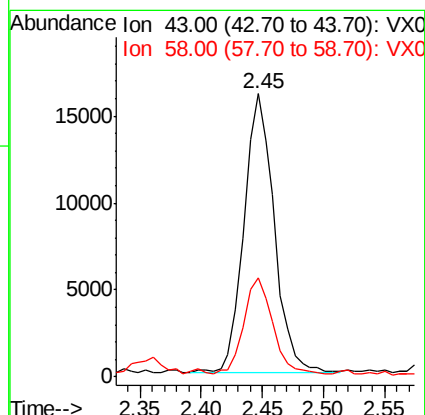
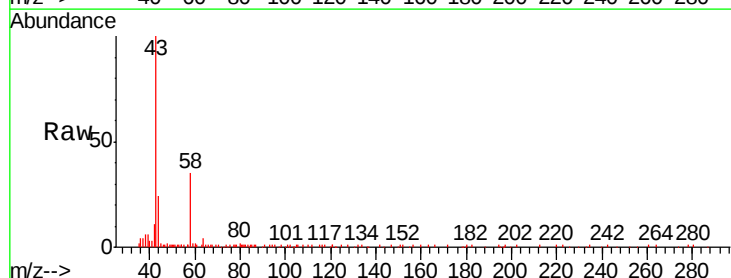
Acq: 03 Jan 2019 14:59

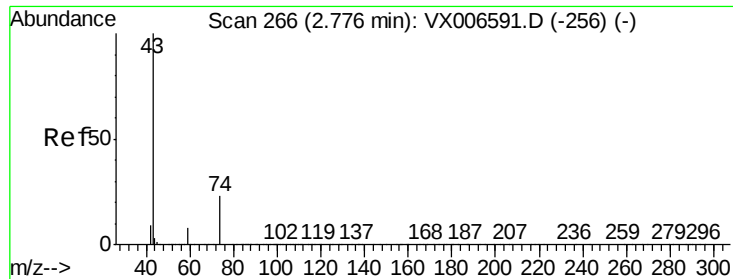
Tgt Ion: 43 Resp: 27305

Ion Ratio Lower Upper

43 100

58 33.6 25.0 37.6

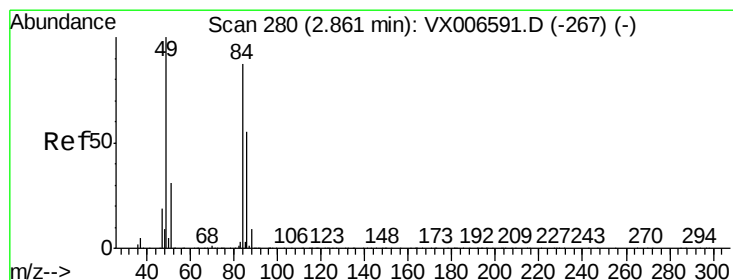
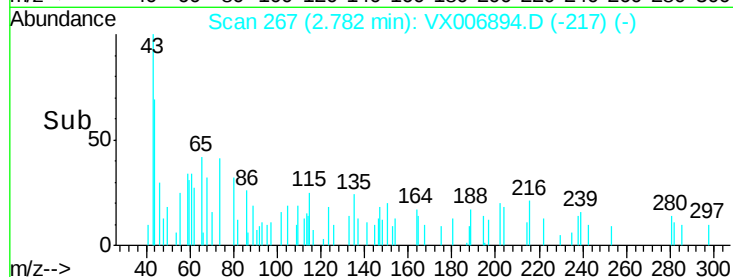
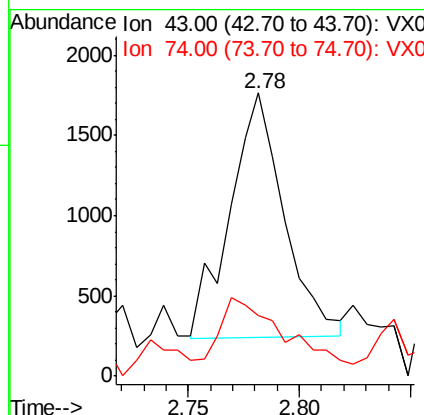
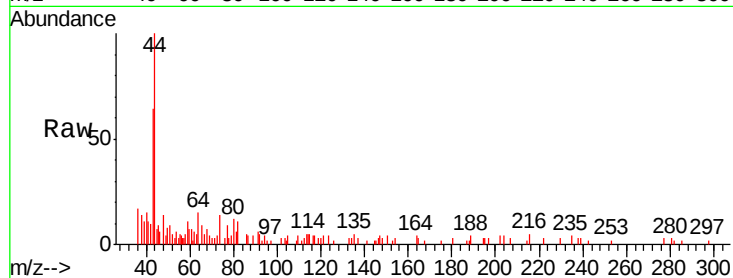




#18
Methyl Acetate
Concen: 0.266 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

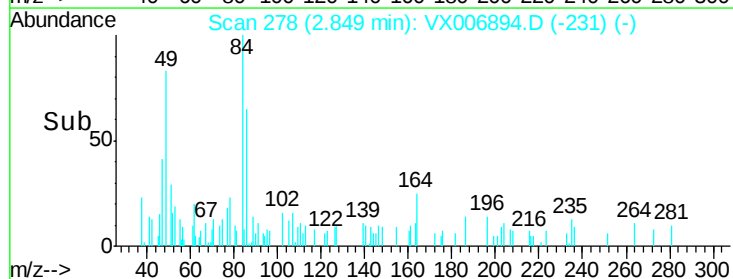
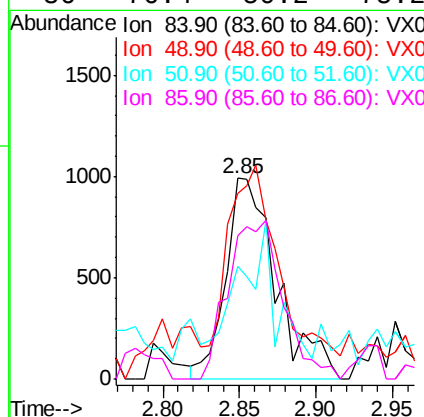
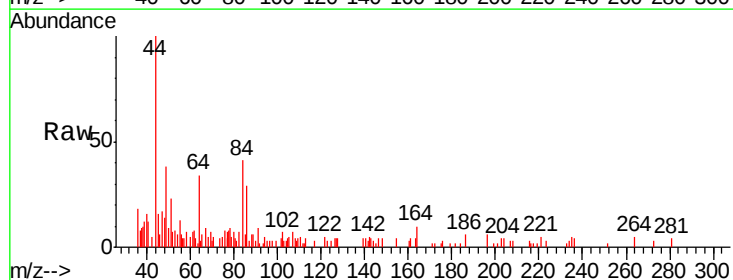
Instrument :
MSVOA_X
ClientSampleId :
TP-5

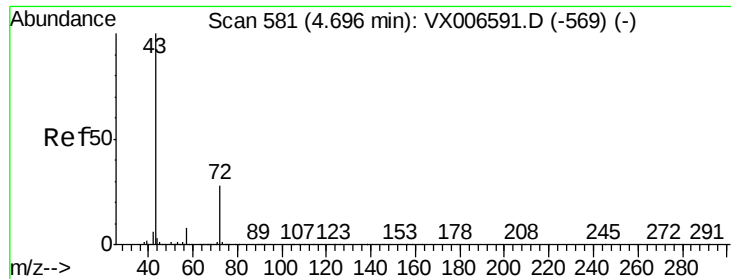
Tgt Ion: 43 Resp: 2594
Ion Ratio Lower Upper
43 100
74 36.4 18.6 28.0#



#20
Methylene Chloride
Concen: 0.335 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

Tgt Ion: 84 Resp: 2293
Ion Ratio Lower Upper
84 100
49 86.3 91.8 137.6#
51 41.4 28.5 42.7
86 76.4 50.2 75.2#





#25

2-Butanone

Concen: 1.895 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

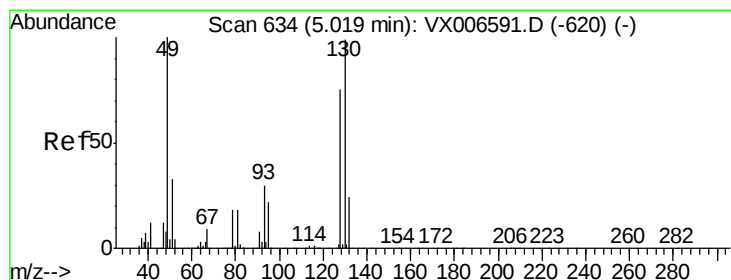
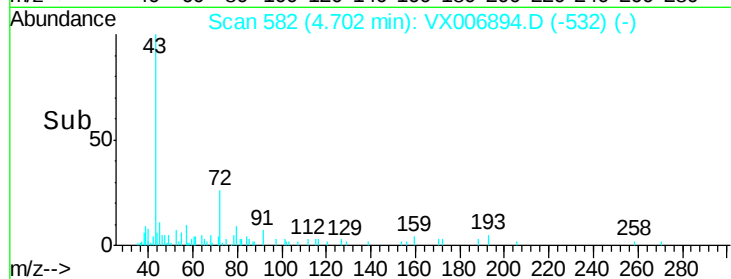
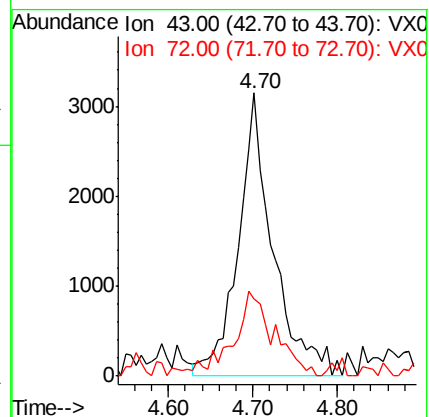
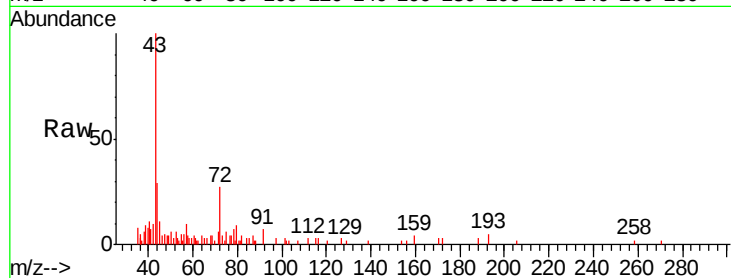
Instrument :
MSVOA_X
ClientSampleId :
TP-5

Tgt Ion: 43 Resp: 8832

Ion Ratio Lower Upper

43 100

72 25.5 22.4 33.6



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

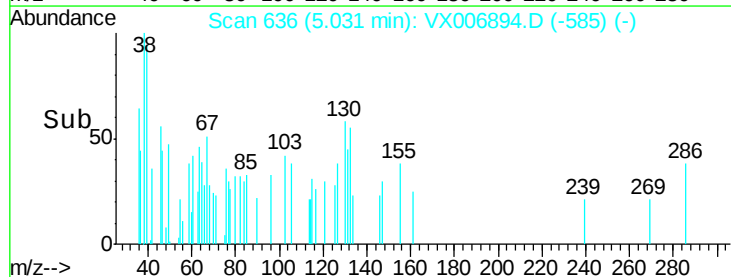
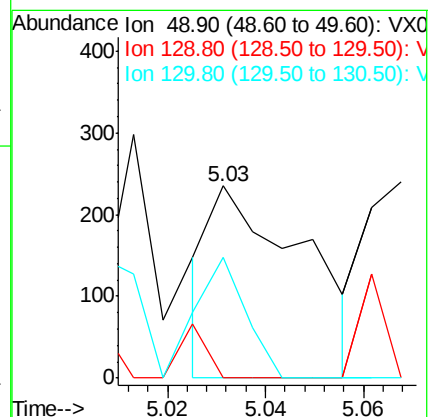
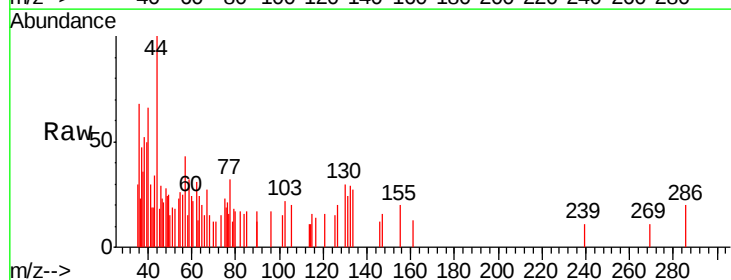
Tgt Ion: 49 Resp: 309

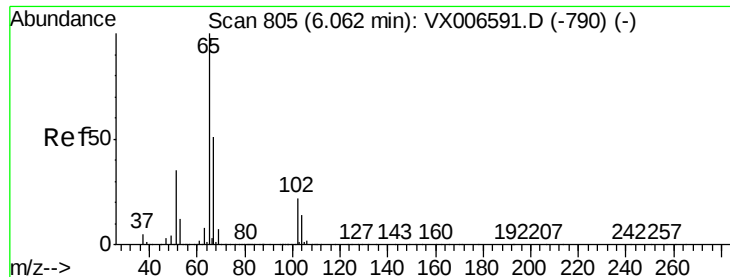
Ion Ratio Lower Upper

49 100

129 7.8 0.0 5.4#

130 34.3 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 47.730 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Instrument :

MSVOA_X

ClientSampled :

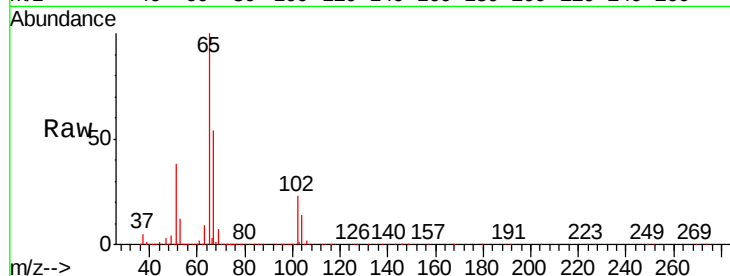
TP-5

Tgt Ion: 65 Resp: 344314

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

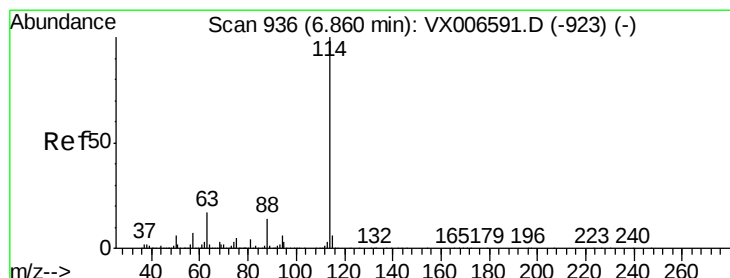
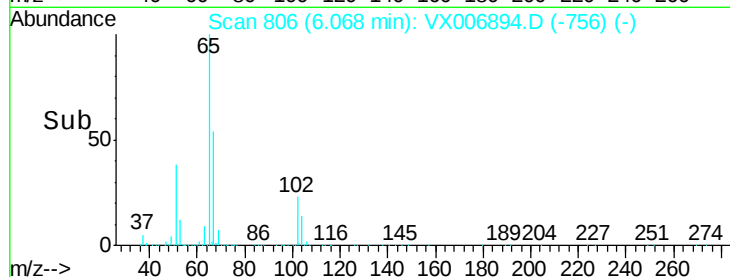
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

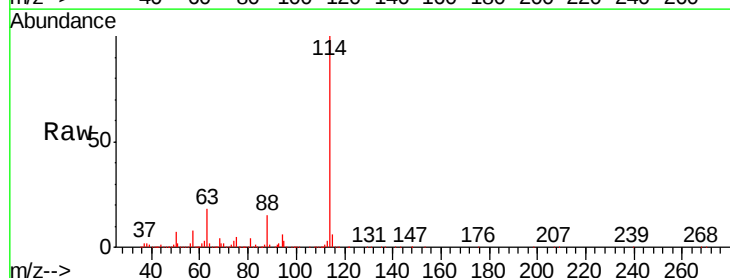
Tgt Ion: 114 Resp: 1012839

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

88 14.5 0.0 28.8



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

600000

500000

400000

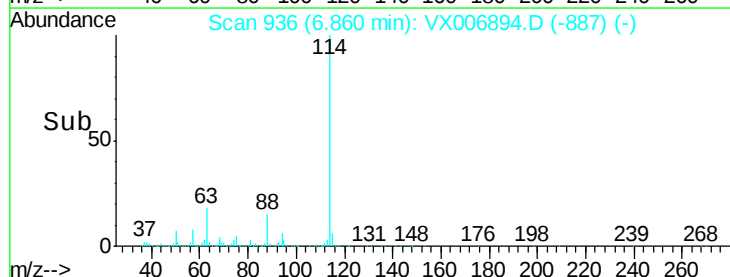
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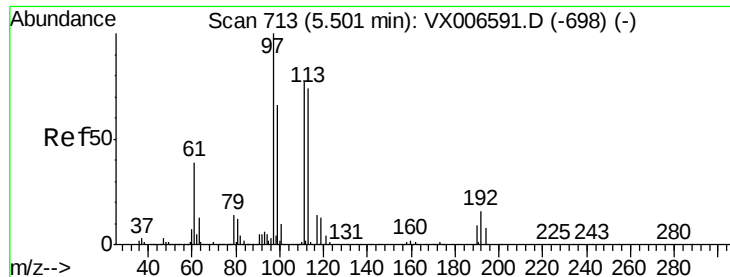
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.170 ug/l

RT: 5.50 min Scan# 713

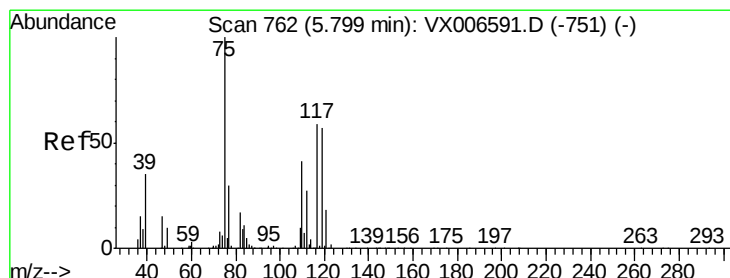
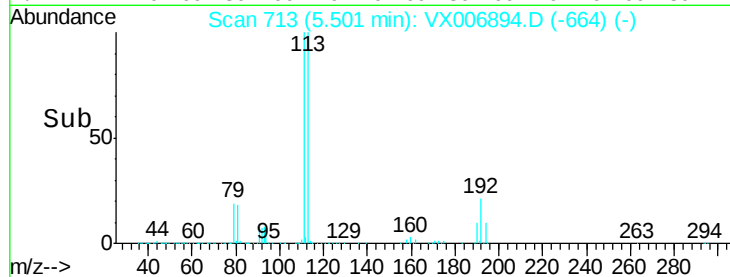
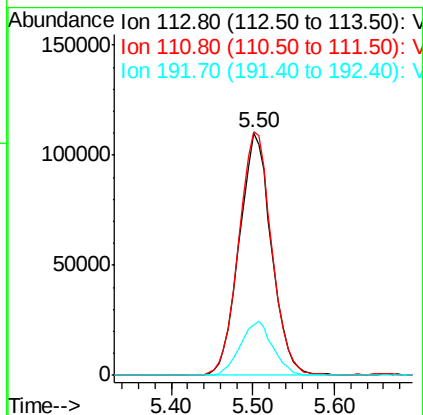
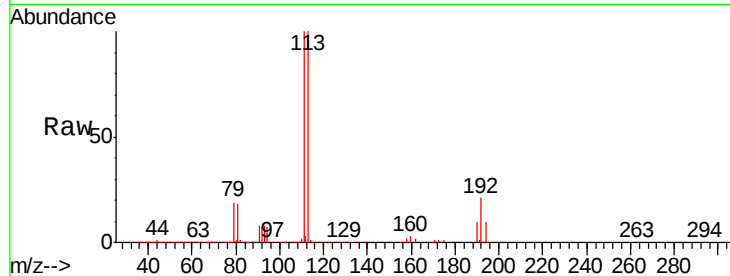
Delta R.T. 0.00 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Instrument :
MSVOA_X
ClientSampleId :
TP-5

Tgt Ion:	113	Resp:	302124
Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.6	122.4
192	22.6	16.7	25.1



#36

1,1-Dichloropropene

Concen: 4.916 ug/l

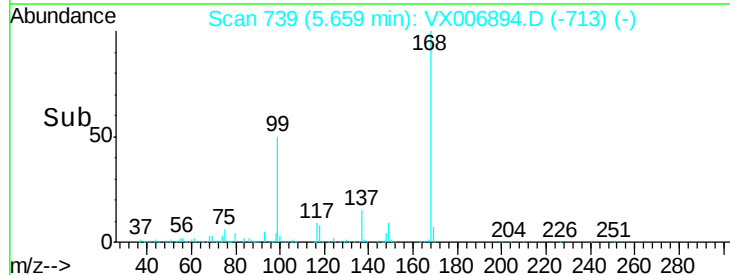
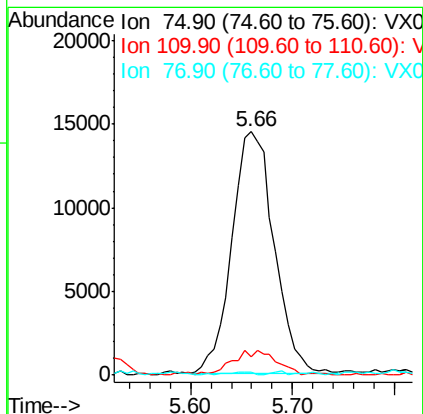
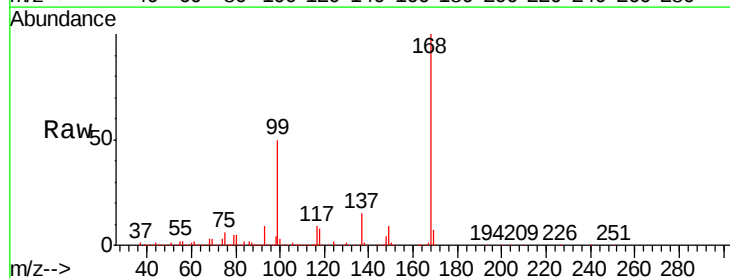
RT: 5.66 min Scan# 739

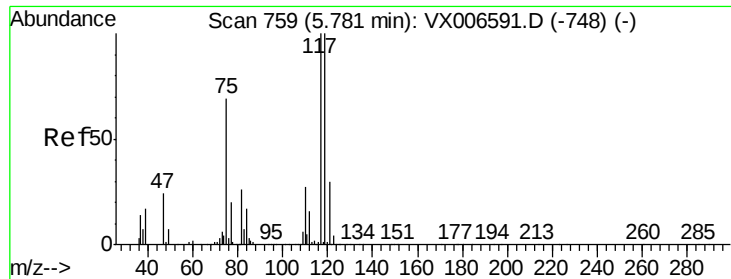
Delta R.T. -0.14 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Tgt Ion:	75	Resp:	41239
Ion	Ratio	Lower	Upper
75	100		
110	10.9	20.2	60.5#
77	0.7	24.8	37.2#

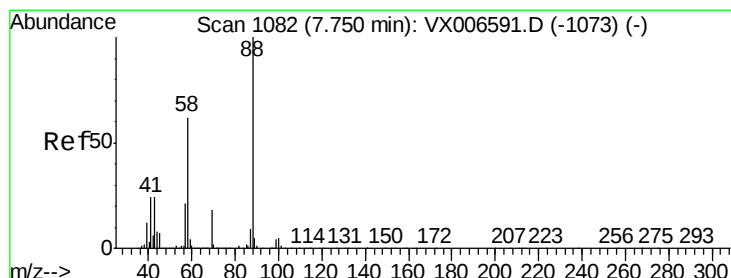
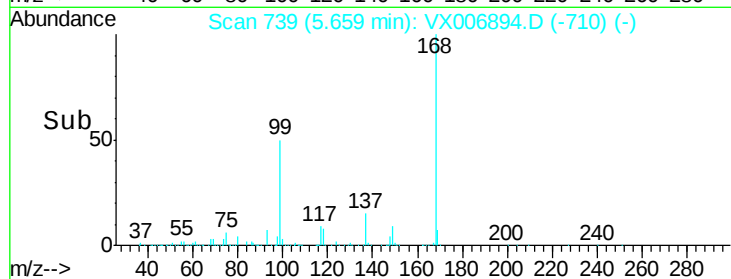
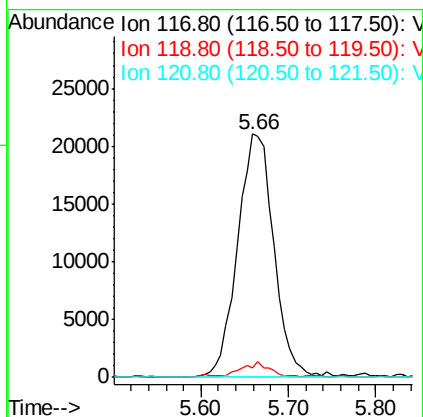
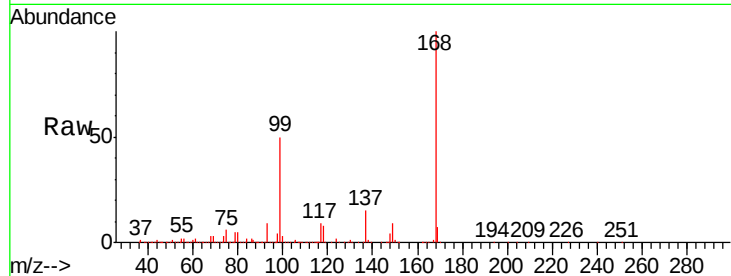




#38
Carbon Tetrachloride
Concen: 7.429 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

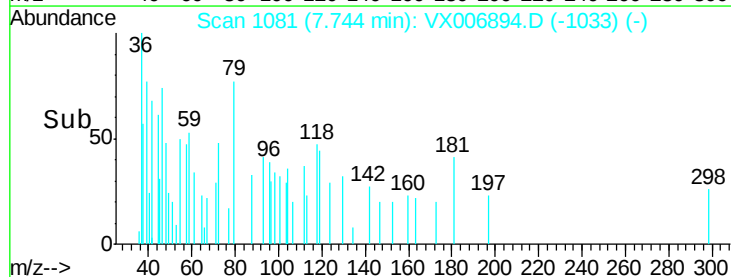
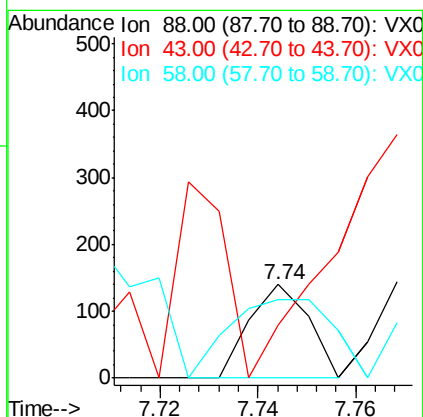
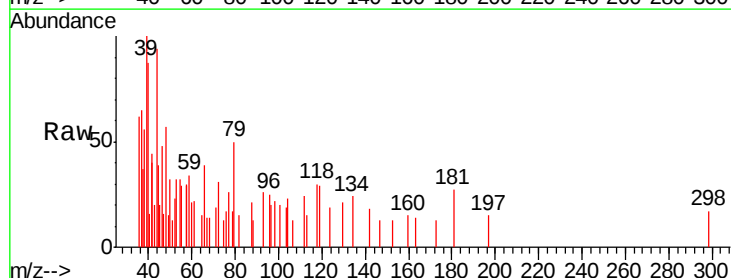
Instrument :
MSVOA_X
ClientSampled :
TP-5

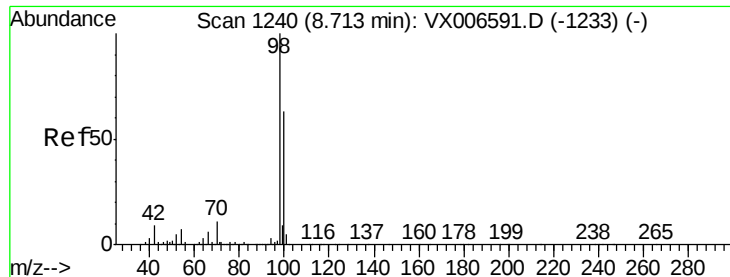
Tgt Ion: 117 Resp: 60563
Ion Ratio Lower Upper
117 100
119 3.6 79.4 119.2#
121 0.0 24.0 36.0#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

Tgt Ion: 88 Resp: 117
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 147.9 51.0 76.4#





#50

Toluene-d8

Concen: 49.272 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Instrument :

MSVOA_X

ClientSampled :

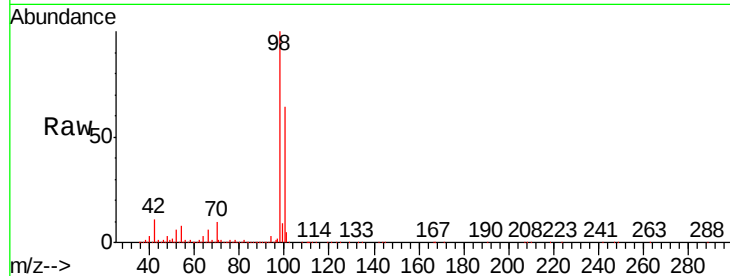
TP-5

Tgt Ion: 98 Resp: 1189783

Ion Ratio Lower Upper

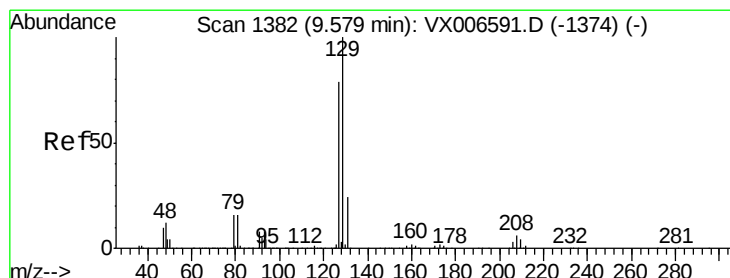
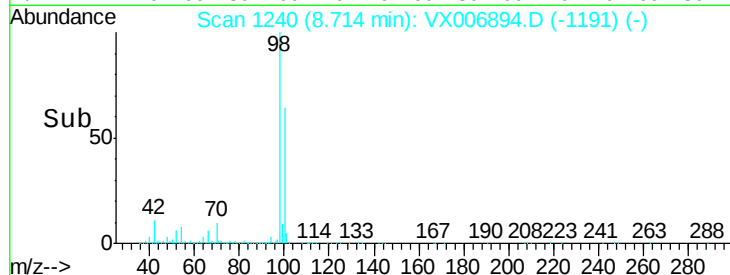
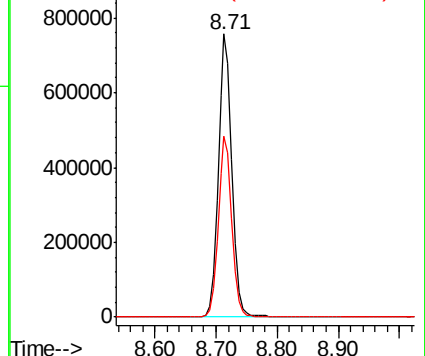
98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.333 ug/l

RT: 9.55 min Scan# 1378

Delta R.T. -0.02 min

Lab File: VX006894.D

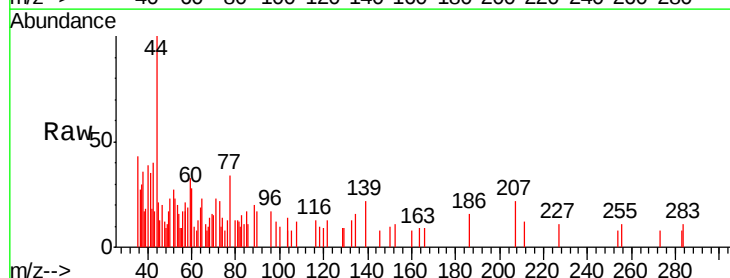
Acq: 03 Jan 2019 14:59

Tgt Ion: 129 Resp: 66

Ion Ratio Lower Upper

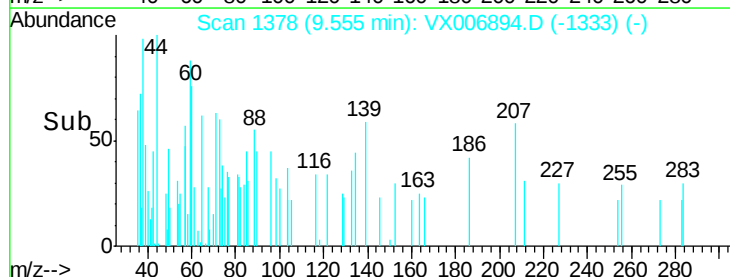
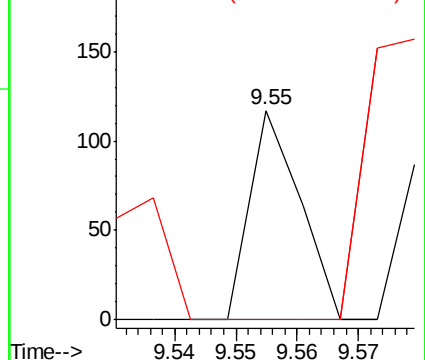
129 100

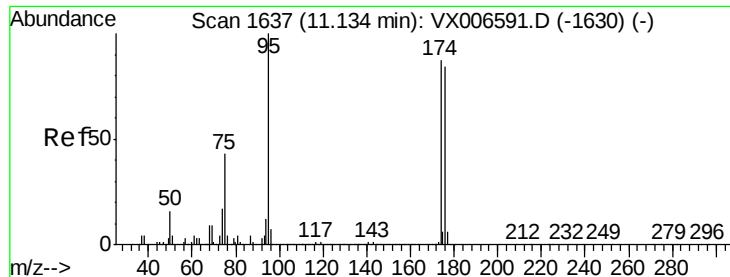
127 101.5 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

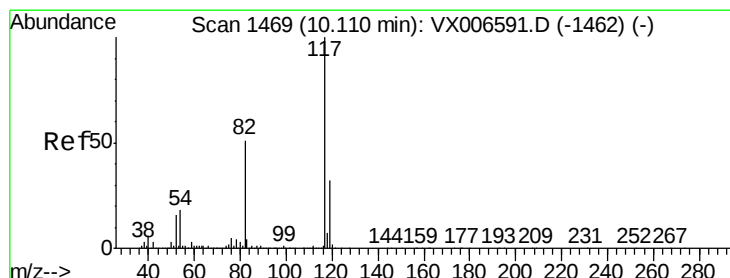
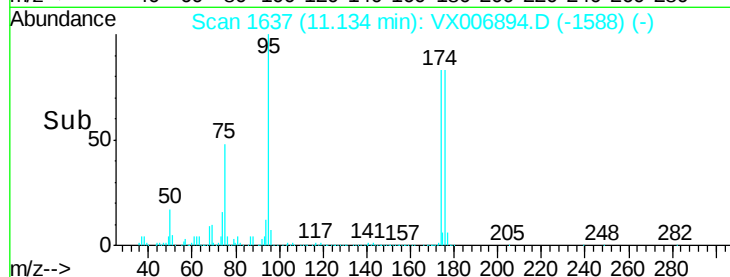
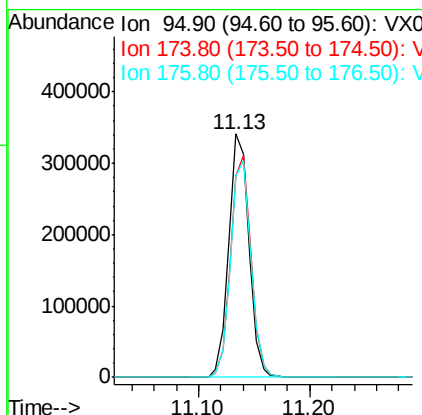
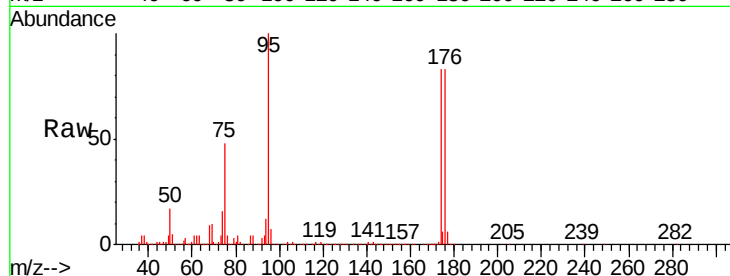




#62
4-Bromofluorobenzene
Concen: 48.655 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

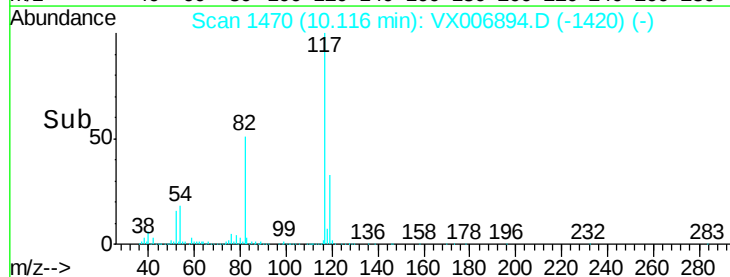
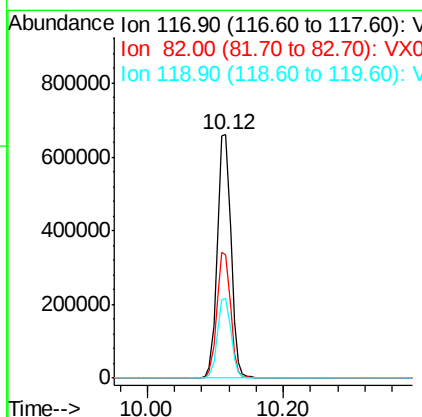
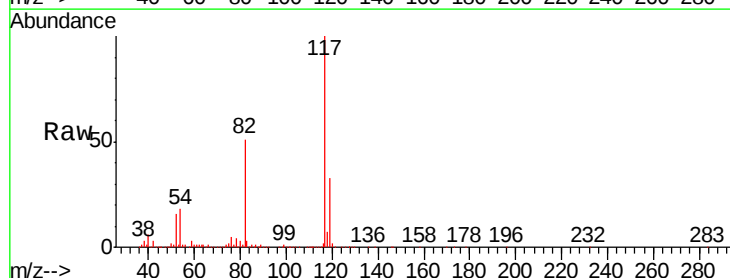
Instrument :
MSVOA_X
ClientSampled :
TP-5

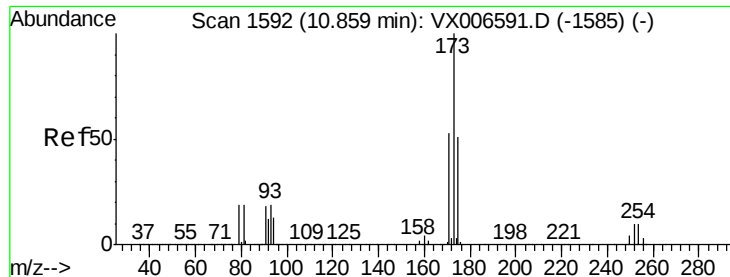
Tgt Ion: 95 Resp: 430287
Ion Ratio Lower Upper
95 100
174 91.5 0.0 182.2
176 90.0 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006894.D
Acq: 03 Jan 2019 14:59

Tgt Ion: 117 Resp: 929192
Ion Ratio Lower Upper
117 100
82 50.8 41.0 61.6
119 32.6 25.4 38.0





#71

Bromoform

Concen: 4.476 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Instrument :

MSVOA_X

ClientSampled :

TP-5

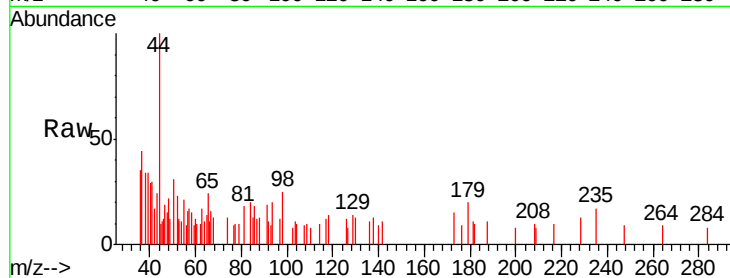
Tgt Ion:173 Resp: 99

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

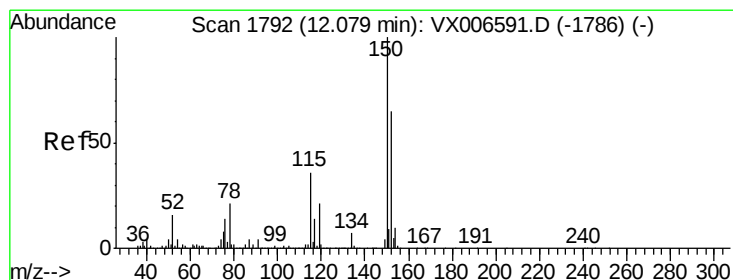
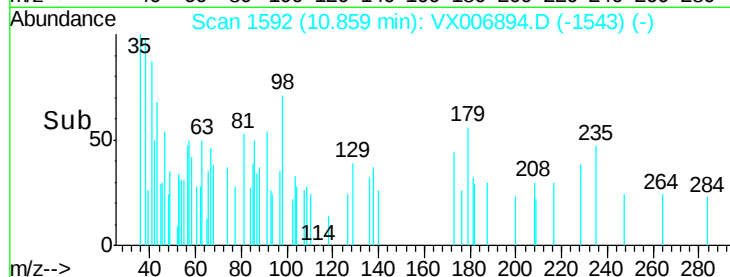
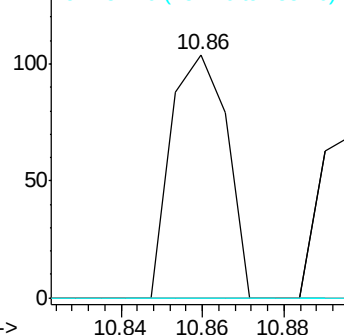
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX006894.D

Acq: 03 Jan 2019 14:59

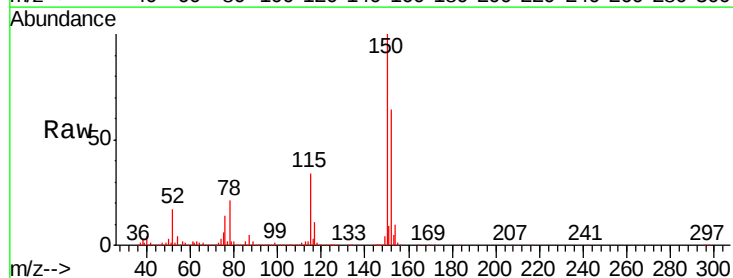
Tgt Ion:152 Resp: 454213

Ion Ratio Lower Upper

152 100

115 55.6 39.1 117.2

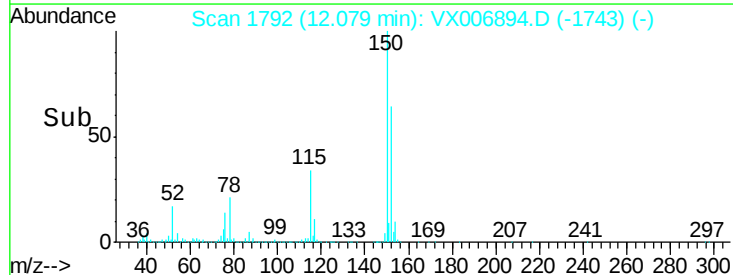
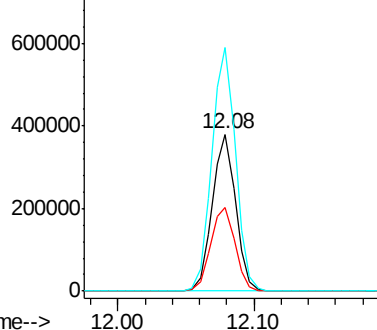
150 158.0 0.0 344.8

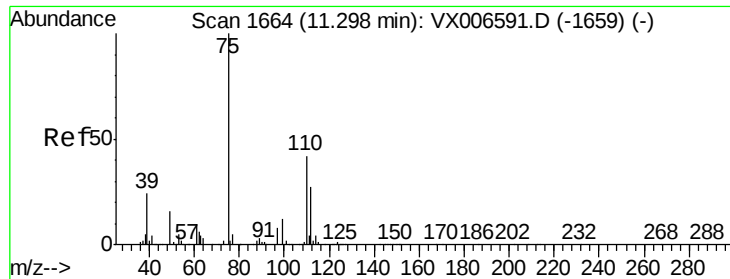


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

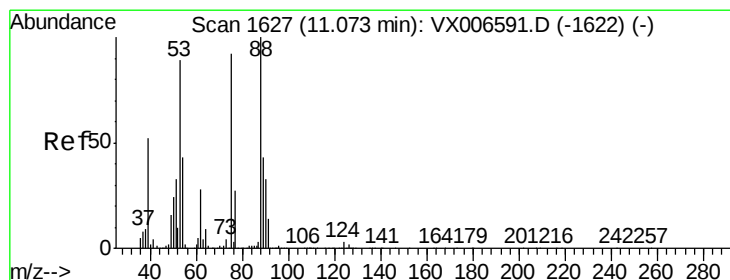
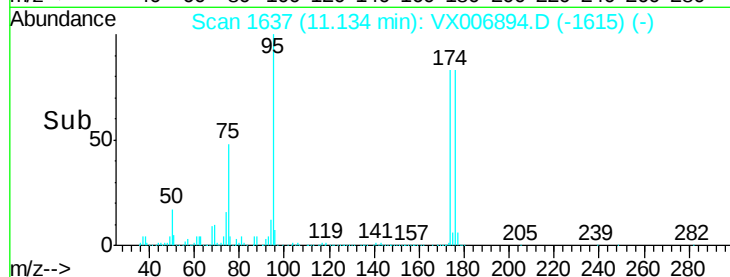
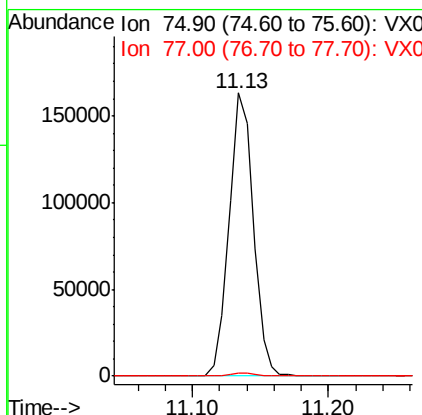
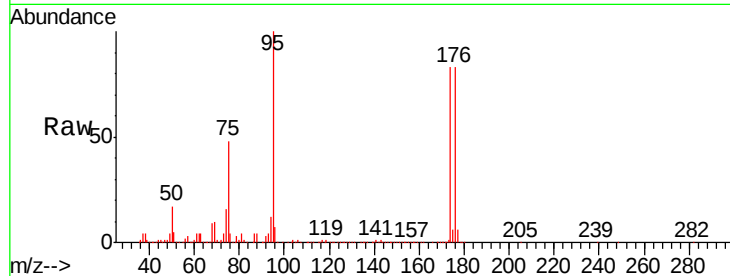




#76
 1,2,3-Trichloropropane
 Concen: 24.145 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006894.D
 Acq: 03 Jan 2019 14:59

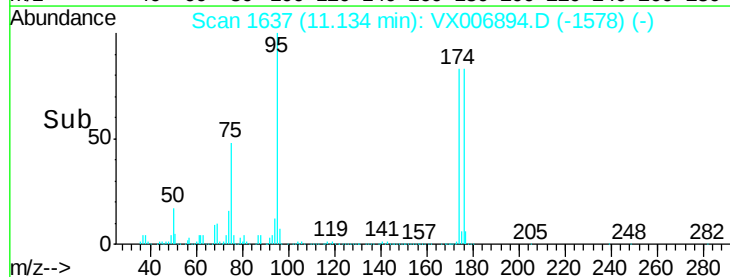
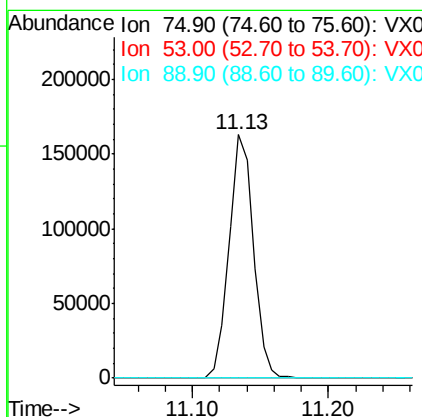
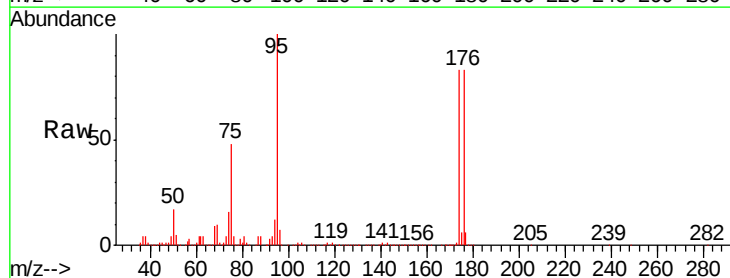
Instrument :
 MSVOA_X
 ClientSampled :
 TP-5

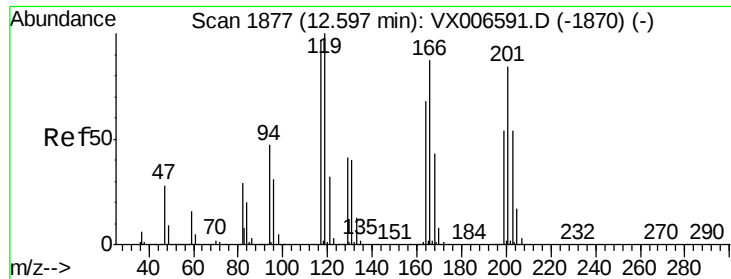
Tgt Ion: 75 Resp: 203812
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.492 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006894.D
 Acq: 03 Jan 2019 14:59

Tgt Ion: 75 Resp: 203812
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.7 119.5#
 89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 3.310 ug/l

RT: 12.37 min Scan# 1839

Delta R.T. -0.23 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

Instrument :

MSVOA_X

ClientSampleId :

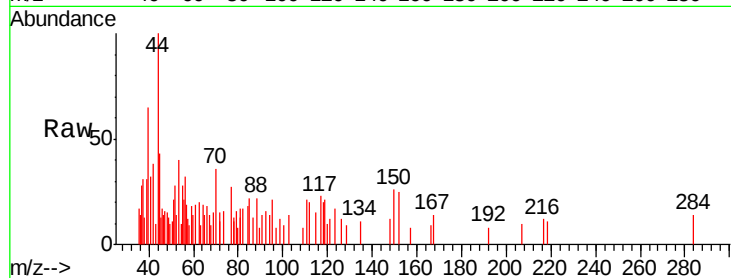
TP-5

Tgt Ion:117 Resp: 79

Ion Ratio Lower Upper

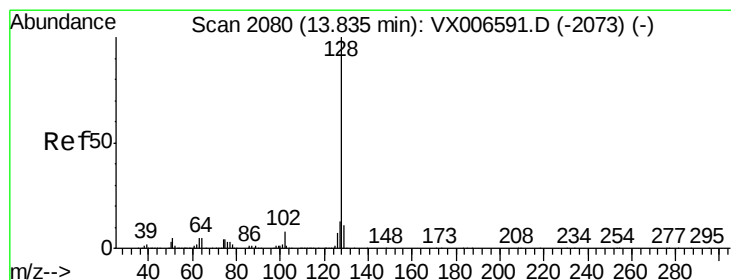
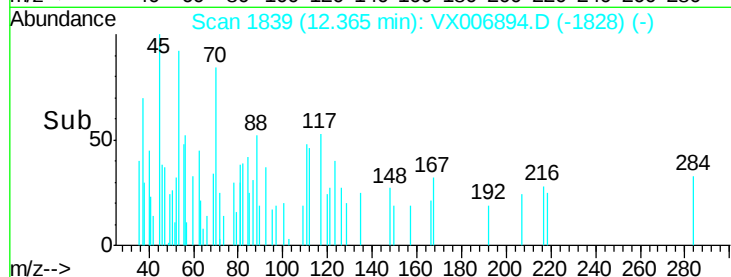
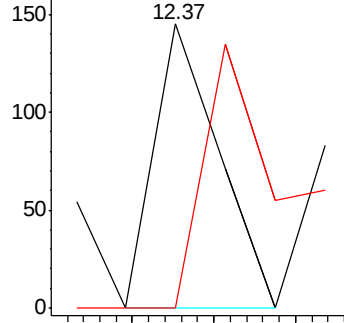
117 100

201 115.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.721 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006894.D

Acq: 03 Jan 2019 14:59

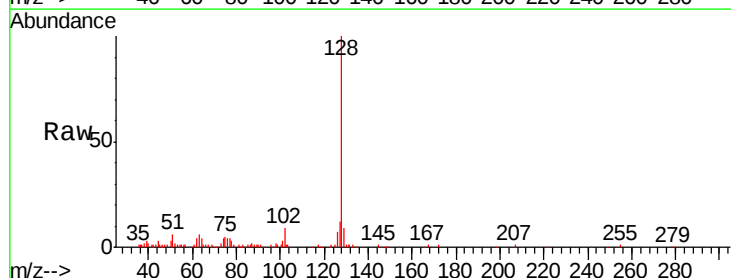
Tgt Ion:128 Resp: 24040

Ion Ratio Lower Upper

128 100

127 12.4 10.1 15.1

129 11.6 8.6 13.0



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

