

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050219\
 Data File : VX009278.D
 Acq On : 02 May 2019 17:14
 Operator : JC/SP
 Sample : K2660-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB13-190429

Quant Time: May 03 02:43:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	192429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	310064	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	271691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116286	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	127725	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
35) Dibromofluoromethane	5.50	113	94063	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	8.71	98	388746	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	11.13	95	128464	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	

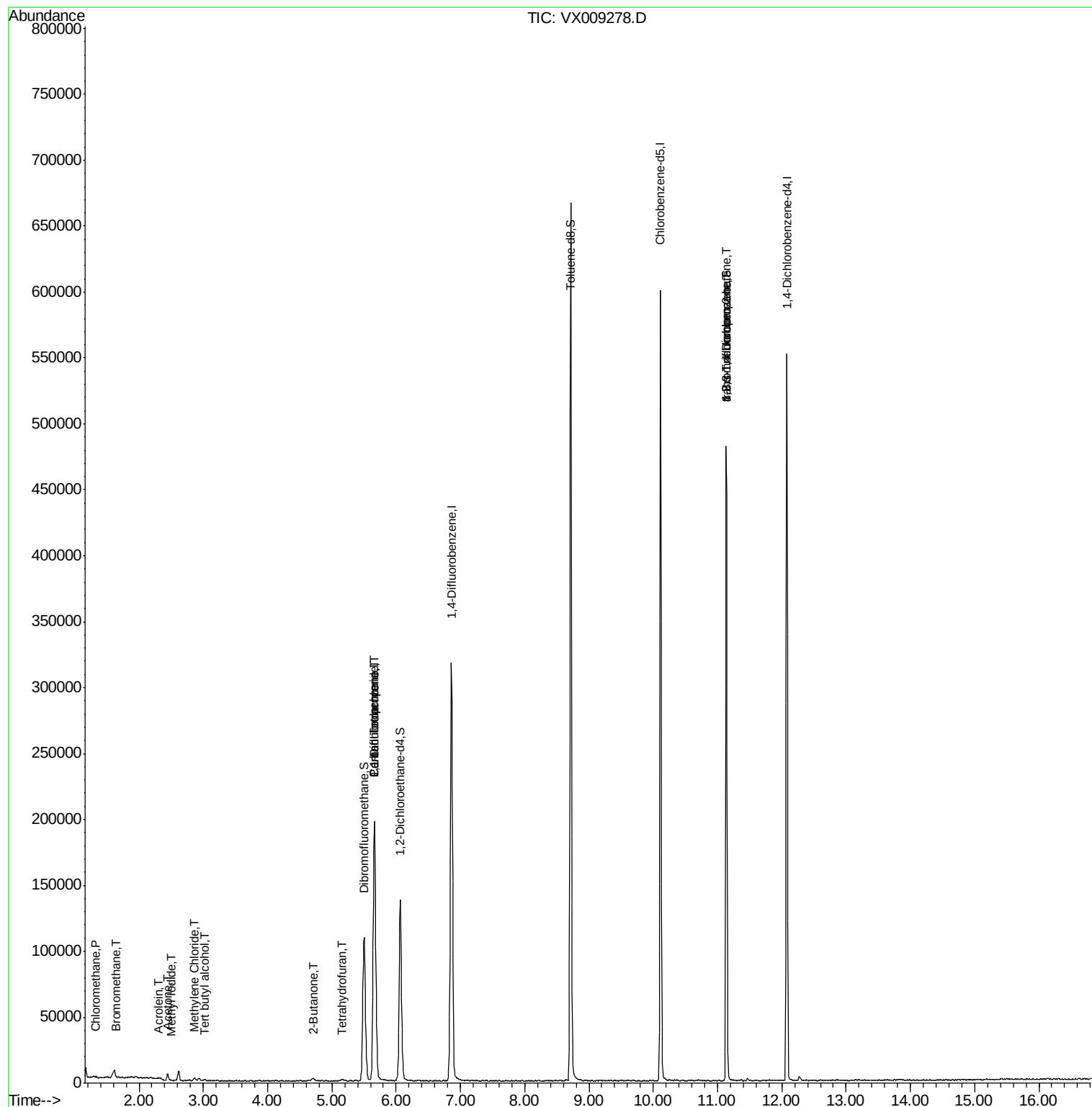
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	492	0.203	ug/l #	64
5) Bromomethane	1.65	94	475	0.335	ug/l #	41
10) Methyl Iodide	2.51	142	192	4.677	ug/l #	79
11) Tert butyl alcohol	3.02	59	781	1.284	ug/l #	82
13) Acrolein	2.29	56	162	0.294	ug/l #	1
16) Acetone	2.44	43	5942	4.213	ug/l	92
20) Methylene Chloride	2.85	84	988	0.433	ug/l #	84
25) 2-Butanone	4.70	43	1117	0.510	ug/l #	81
28) Bromochloromethane	5.03	49	23	Below Cal	#	20
29) Tetrahydrofuran	5.16	42	1530	1.085	ug/l	95
36) 1,1-Dichloropropene	5.66	75	14983	5.200	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18114	6.919	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	65360	24.231	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	65360	61.997	ug/l #	10

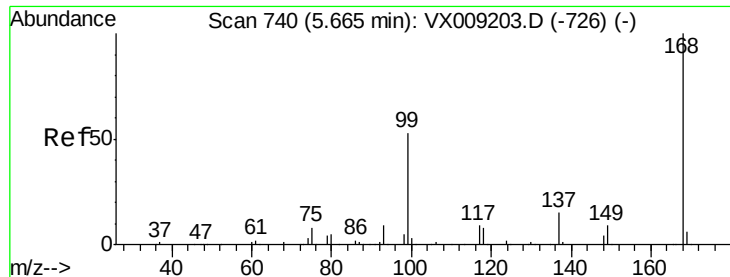
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

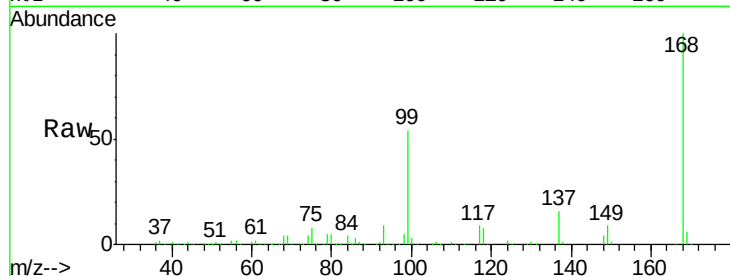
Z3-TB13-190429

Tot Ion:168 Resp: 192429

Ion Ratio Lower Upper

168 100

99 54.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

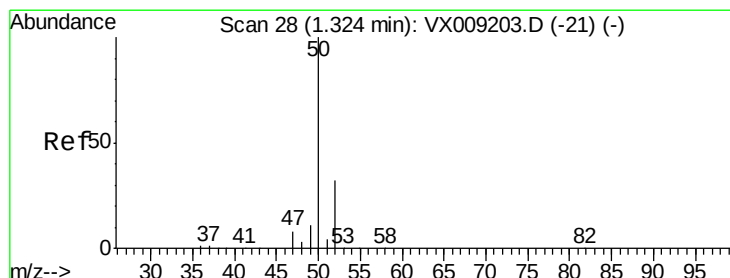
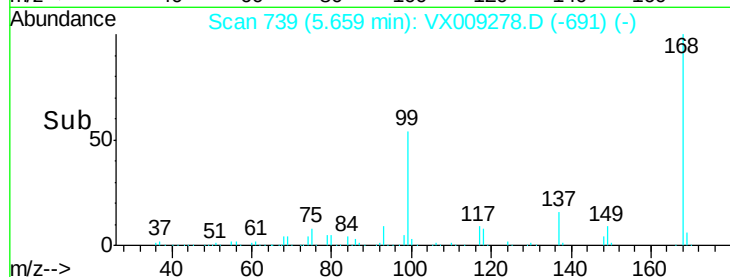
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009278.D

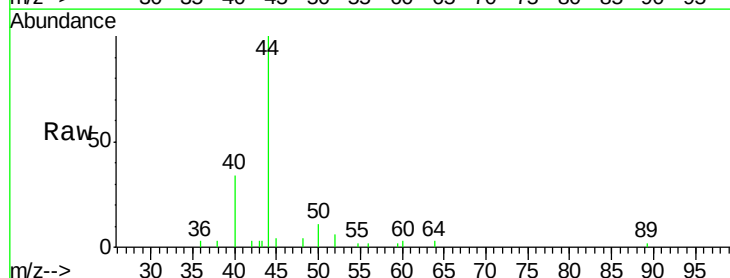
Acq: 02 May 2019 17:14

Tgt Ion: 50 Resp: 492

Ion Ratio Lower Upper

50 100

52 52.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

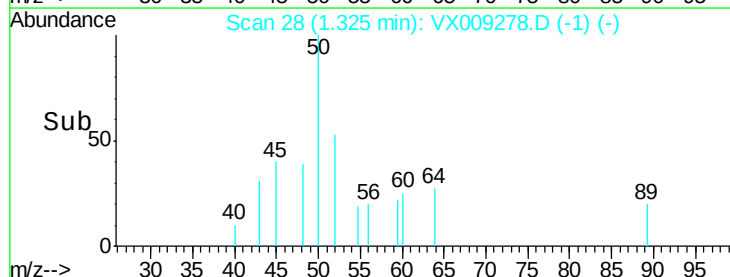
150

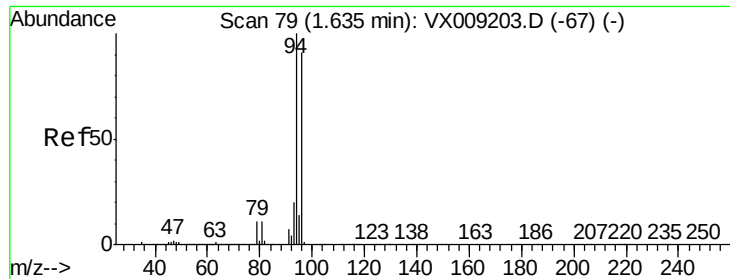
100

50

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.335 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

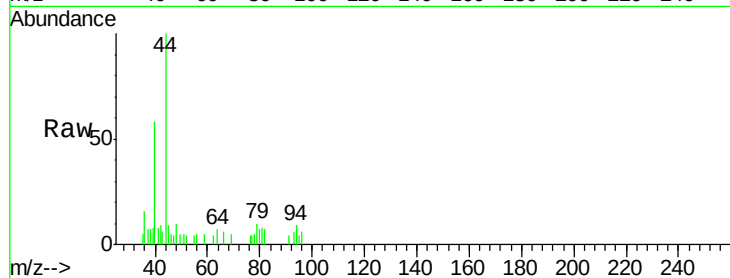
Z3-TB13-190429

Tot Ion: 94 Resp: 475

Ion Ratio Lower Upper

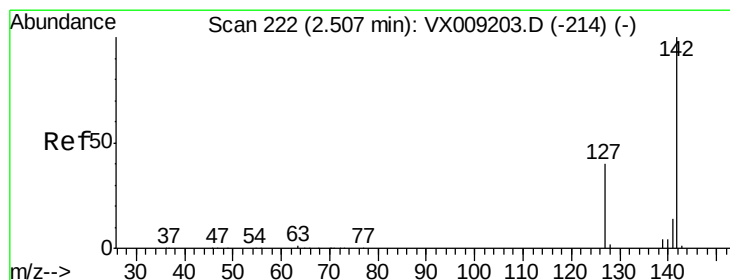
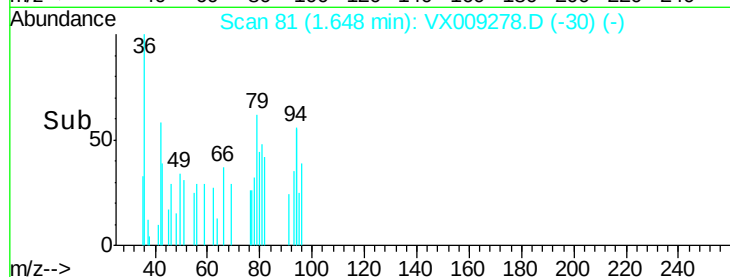
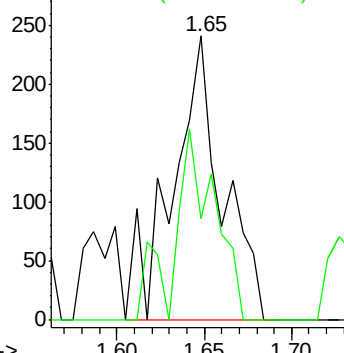
94 100

96 35.3 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.677 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

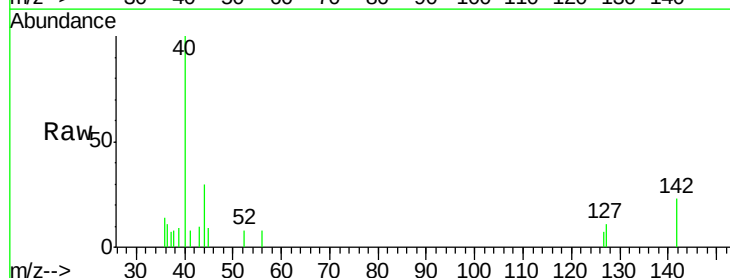
Tgt Ion: 142 Resp: 192

Ion Ratio Lower Upper

142 100

127 50.5 32.7 49.1#

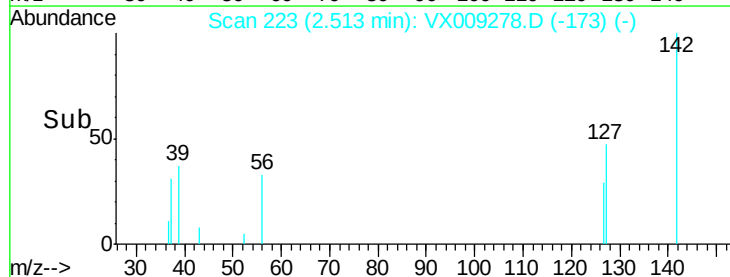
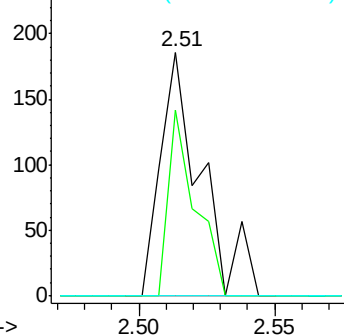
141 0.0 11.5 17.3#

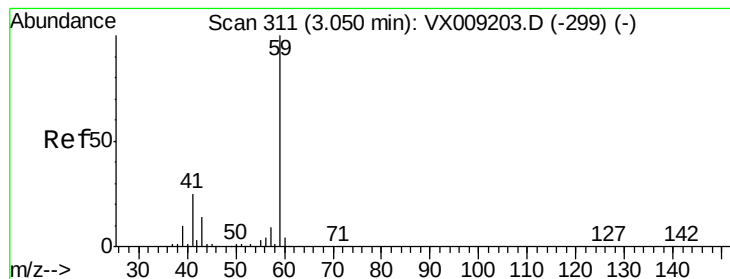


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



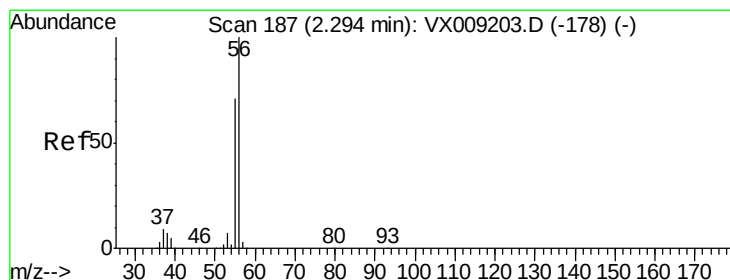
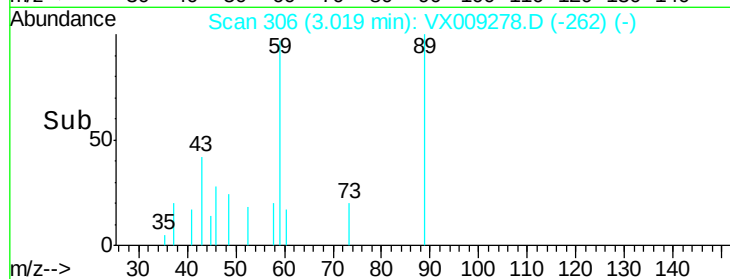
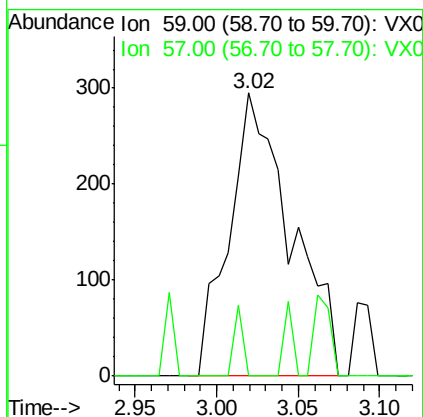
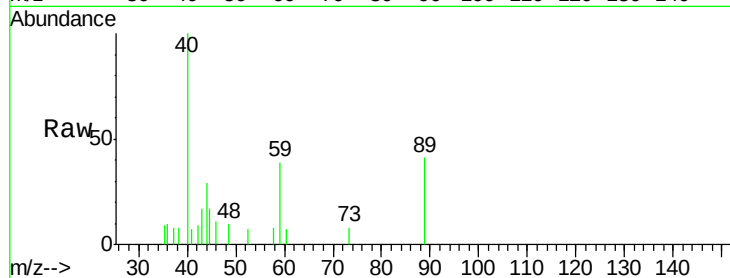


#11

Tert butyl alcohol
 Concen: 1.284 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX009278.D
 Acq: 02 May 2019 17:14

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB13-190429

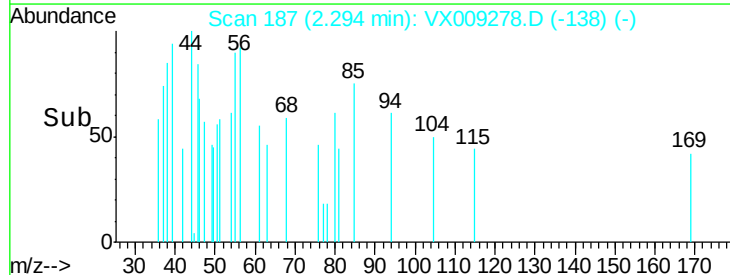
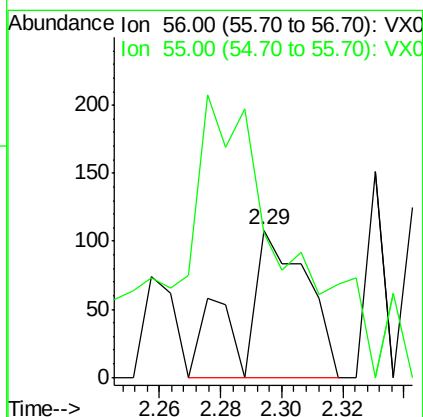
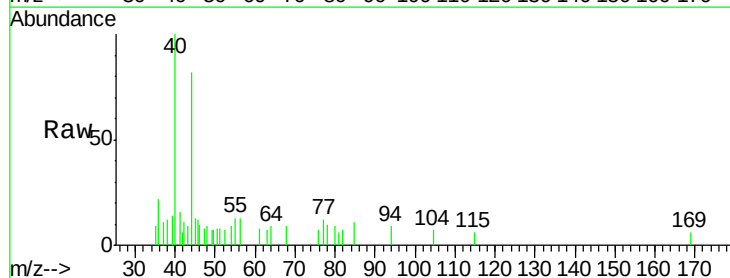
Tot Ion: 59 Resp: 781
 Ion Ratio Lower Upper
 59 100
 57 3.5 8.2 12.2#

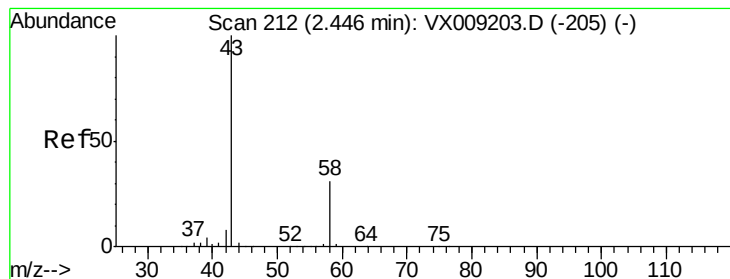


#13

Acrolein
 Concen: 0.294 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX009278.D
 Acq: 02 May 2019 17:14

Tgt Ion: 56 Resp: 162
 Ion Ratio Lower Upper
 56 100
 55 300.6 56.6 85.0#





#16

Acetone

Concen: 4.213 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

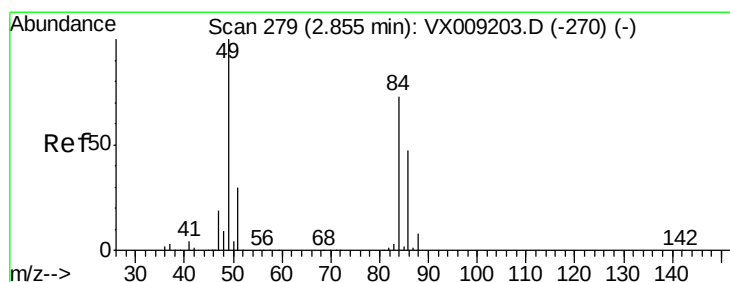
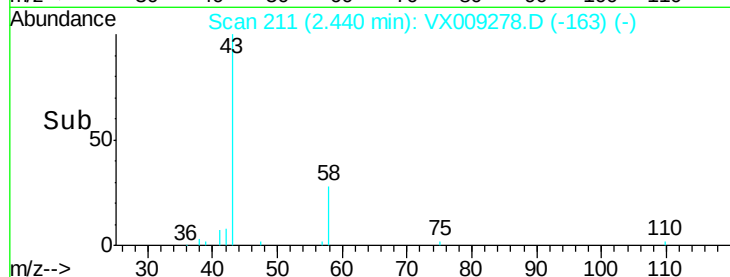
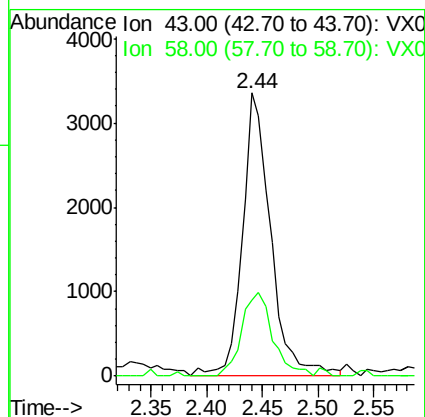
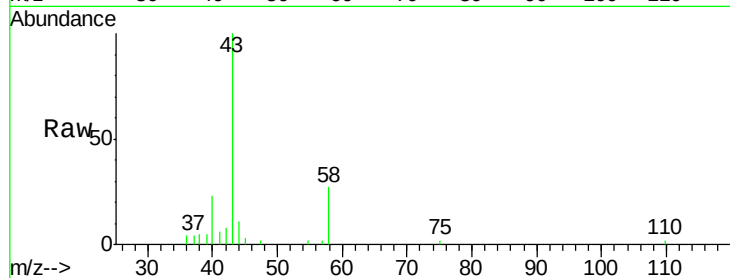
Z3-TB13-190429

Tot Ion: 43 Resp: 5942

Ion Ratio Lower Upper

43 100

58 26.7 24.9 37.3



#20

Methylene Chloride

Concen: 0.433 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Tgt Ion: 84 Resp: 988

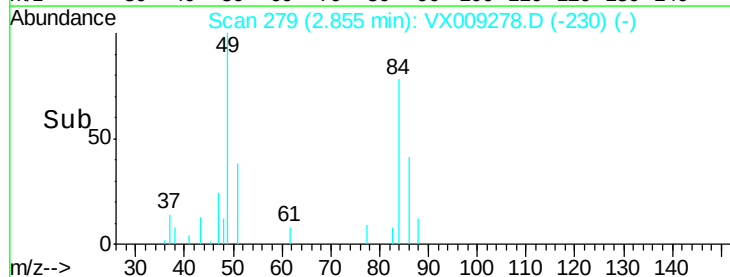
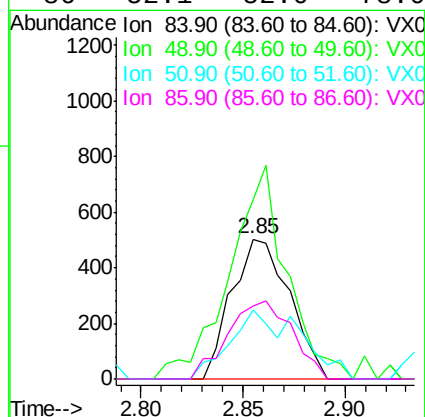
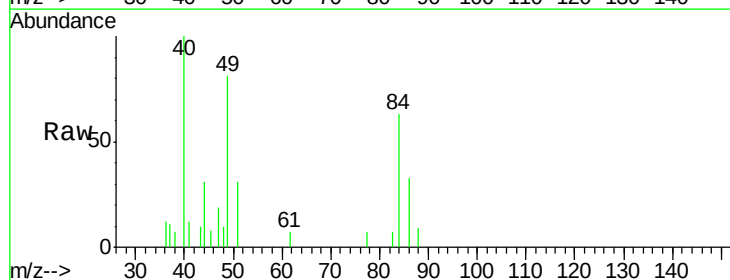
Ion Ratio Lower Upper

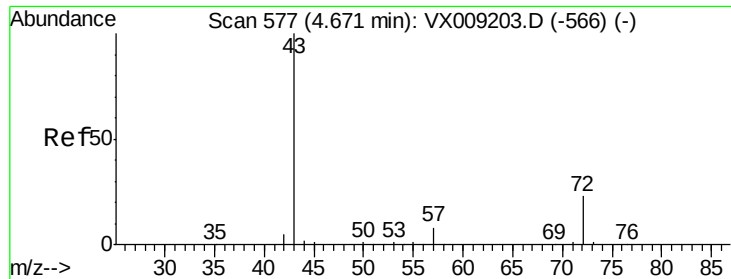
84 100

49 117.1 109.9 164.9

51 49.1 32.7 49.1#

86 52.1 52.0 78.0





#25

2-Butanone

Concen: 0.510 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

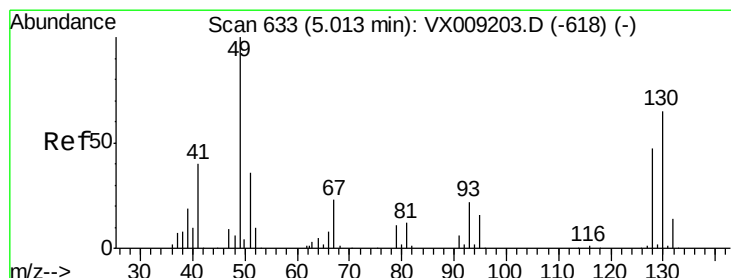
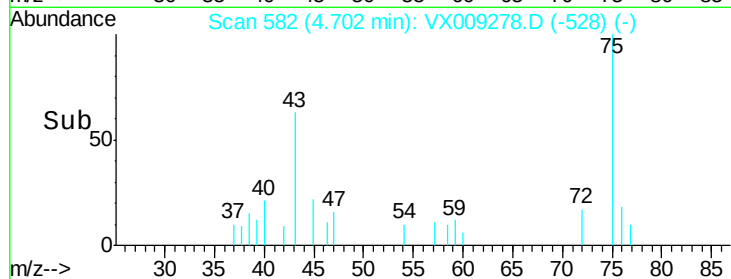
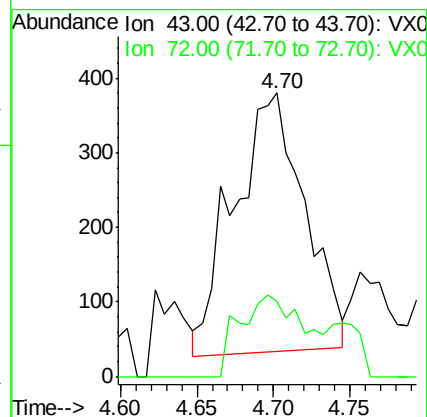
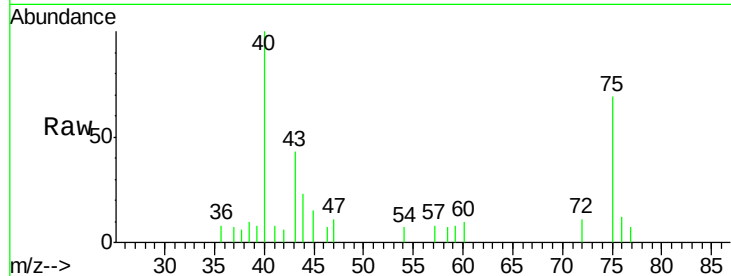
Z3-TB13-190429

Tot Ion: 43 Resp: 1117

Ion Ratio Lower Upper

43 100

72 31.8 18.2 27.2#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

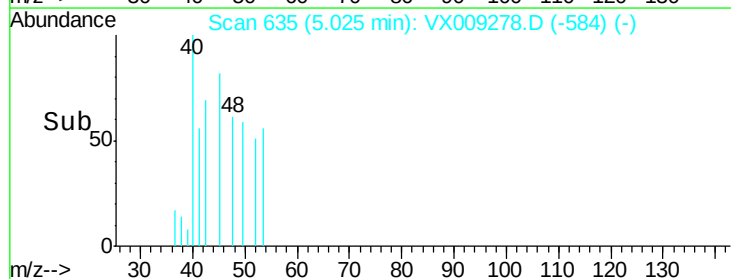
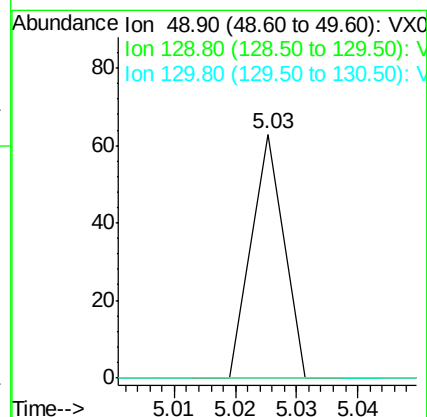
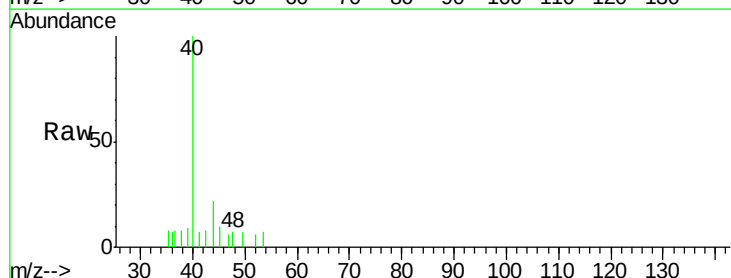
Tgt Ion: 49 Resp: 23

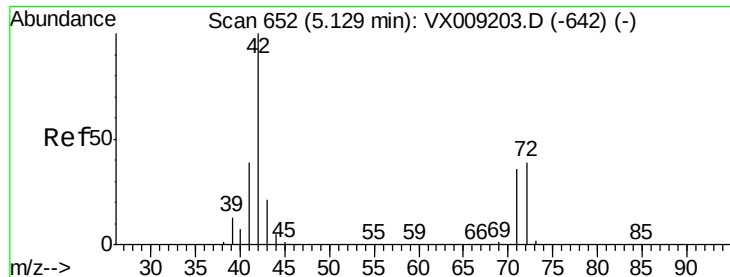
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#





#29

Tetrahydrofuran

Concen: 1.085 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampled :

Z3-TB13-190429

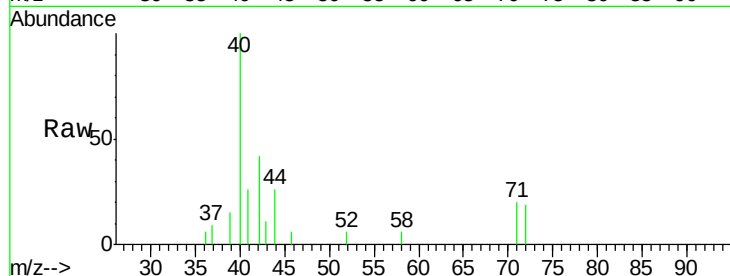
Tot Ion: 42 Resp: 1530

Ion Ratio Lower Upper

42 100

72 38.4 30.4 45.6

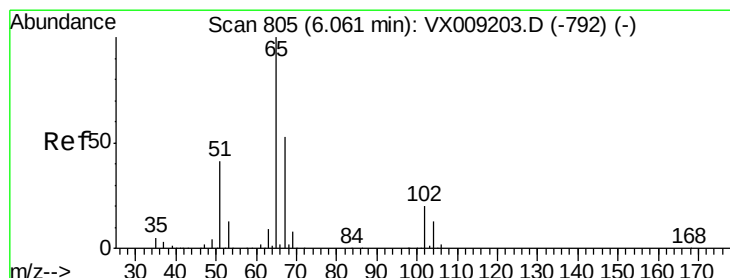
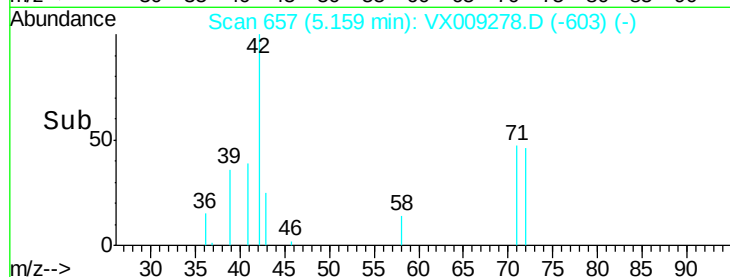
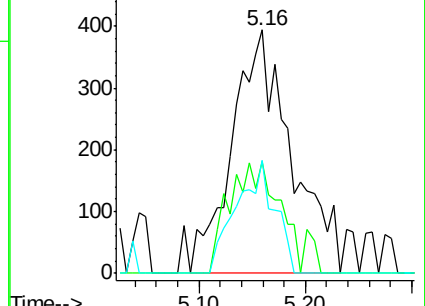
71 30.2 28.6 43.0



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: 48.622 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009278.D

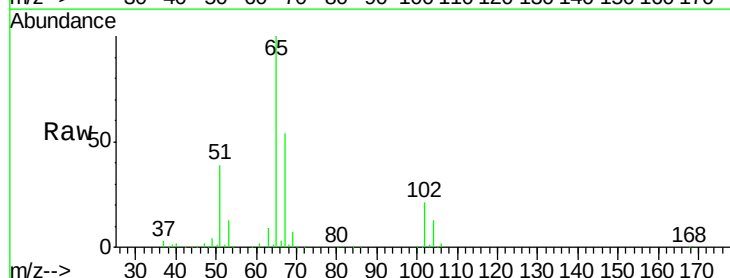
Acq: 02 May 2019 17:14

Tgt Ion: 65 Resp: 127725

Ion Ratio Lower Upper

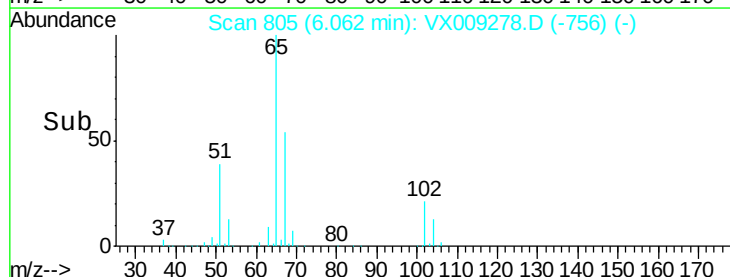
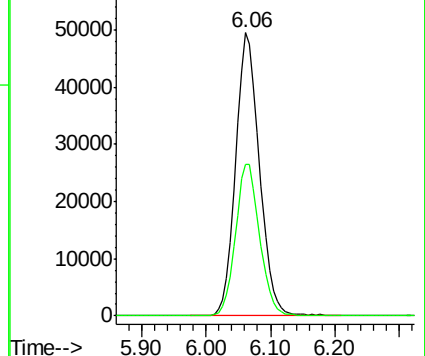
65 100

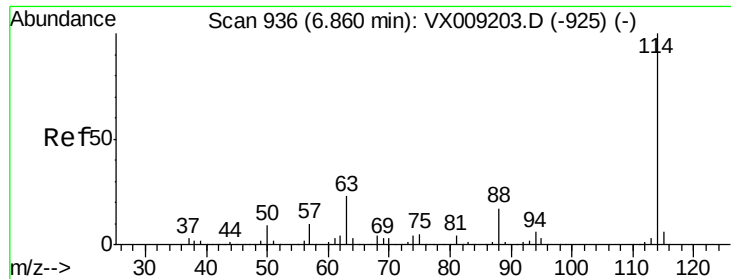
67 54.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

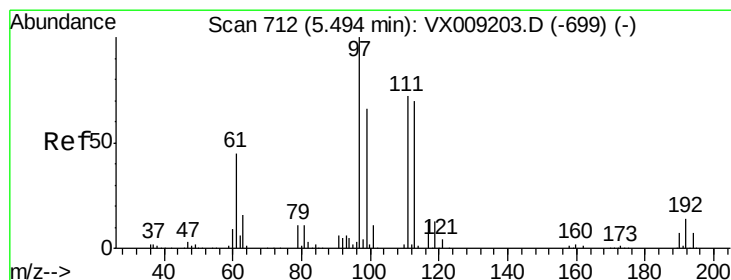
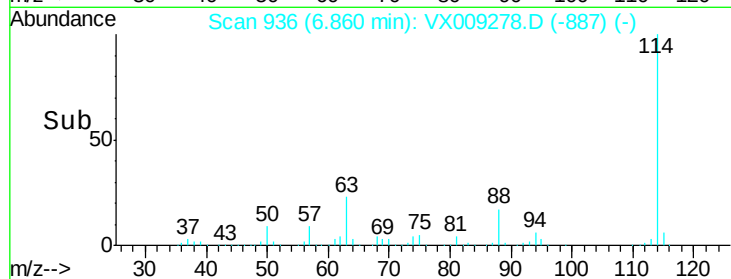
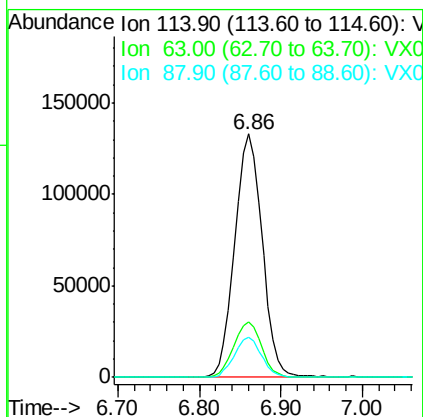
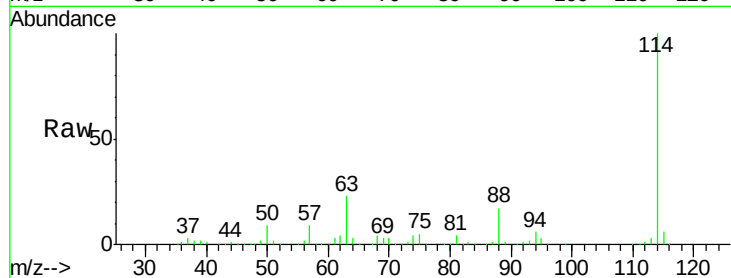




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX009278.D
Acq: 02 May 2019 17:14

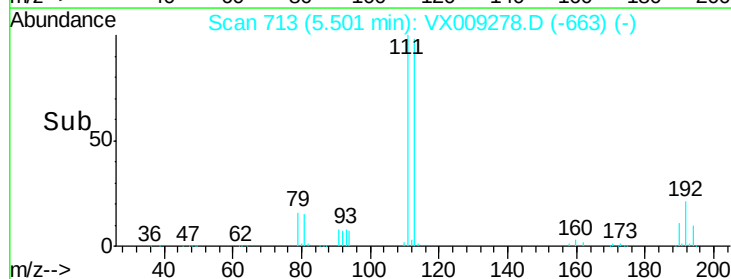
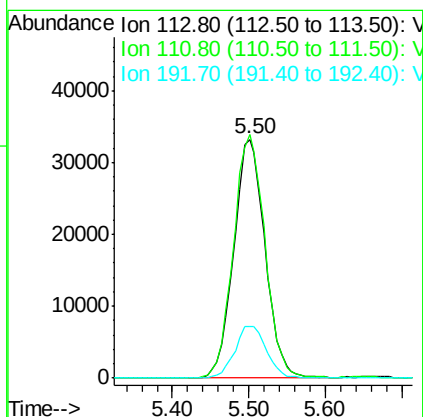
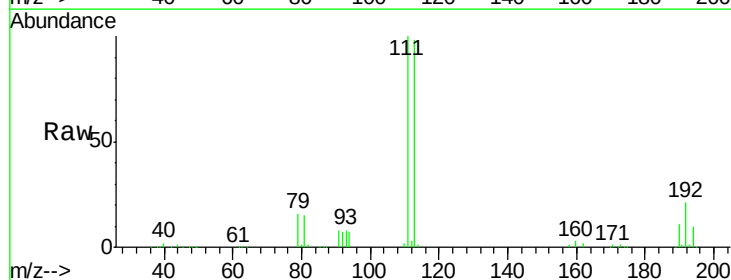
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB13-190429

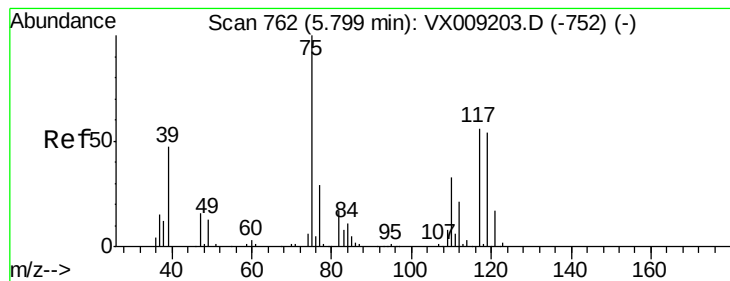
Tot Ion:114 Resp: 310064
Ion Ratio Lower Upper
114 100
63 22.7 0.0 45.6
88 16.6 0.0 33.2



#35
Dibromofluoromethane
Concen: 48.258 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009278.D
Acq: 02 May 2019 17:14

Tgt Ion:113 Resp: 94063
Ion Ratio Lower Upper
113 100
111 102.8 82.8 124.2
192 22.0 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.200 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB13-190429

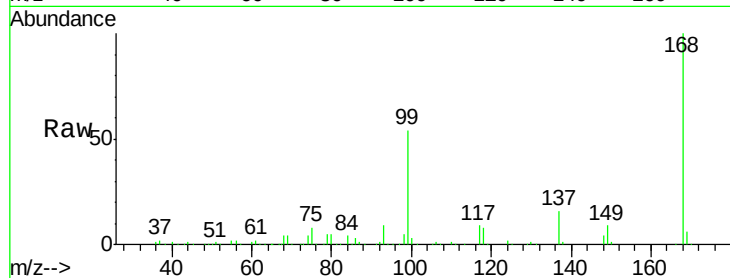
Tot Ion: 75 Resp: 14983

Ion Ratio Lower Upper

75 100

110 9.1 16.9 50.6#

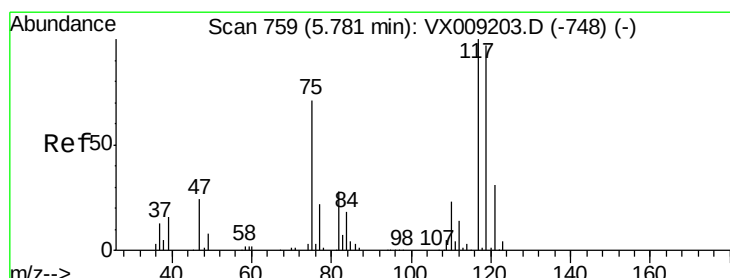
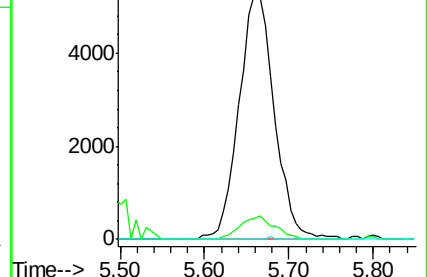
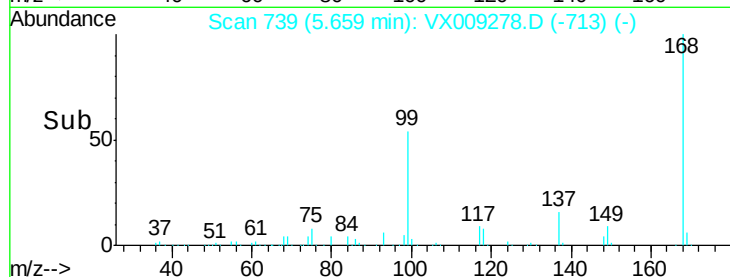
77 0.1 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX009278.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX009278.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX009278.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.919 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

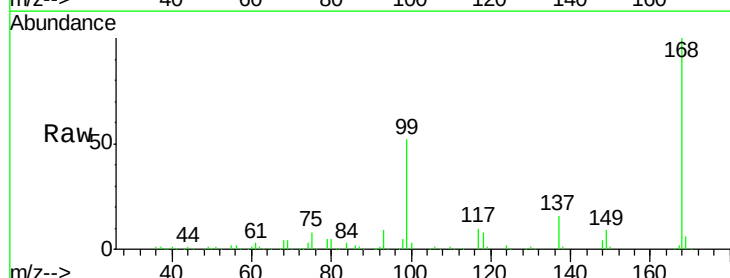
Tgt Ion: 117 Resp: 18114

Ion Ratio Lower Upper

117 100

119 6.0 77.5 116.3#

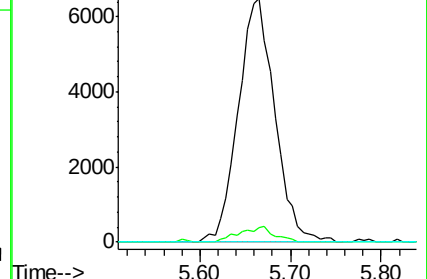
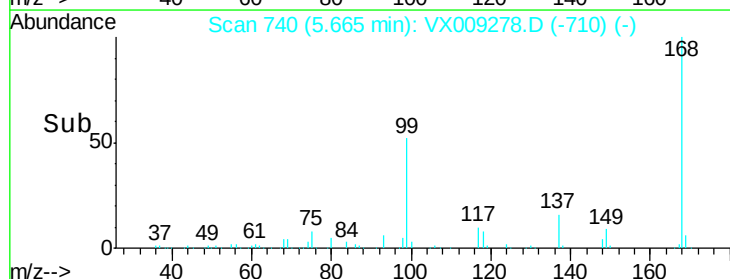
121 0.0 24.7 37.1#

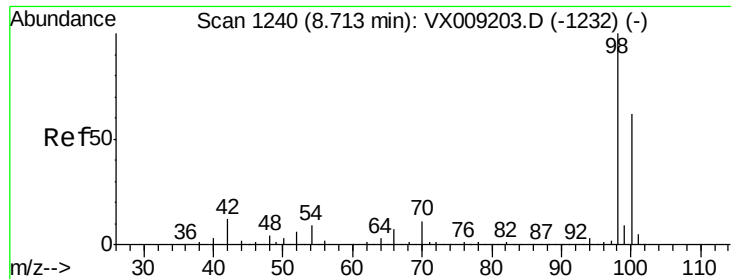


Abundance Ion 116.80 (116.50 to 117.50): VX009278.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX009278.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX009278.D (-710) (-)





#50

Toluene-d8

Concen: 49.400 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

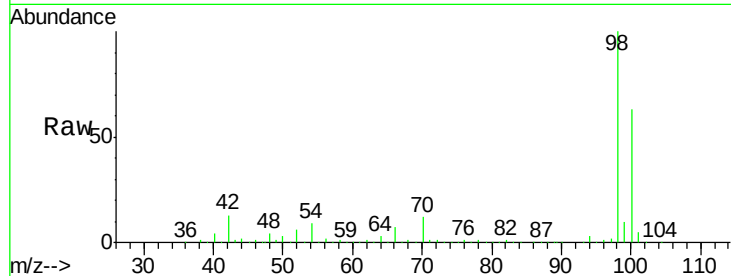
Z3-TB13-190429

Tot Ion: 98 Resp: 388746

Ion Ratio Lower Upper

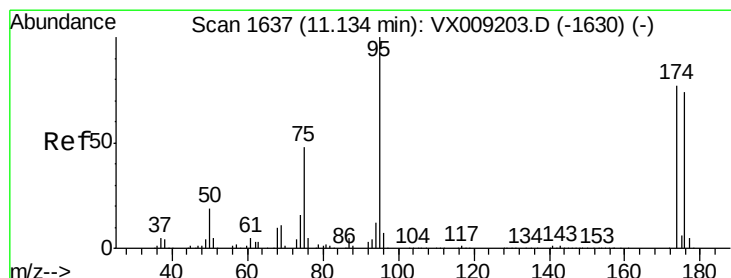
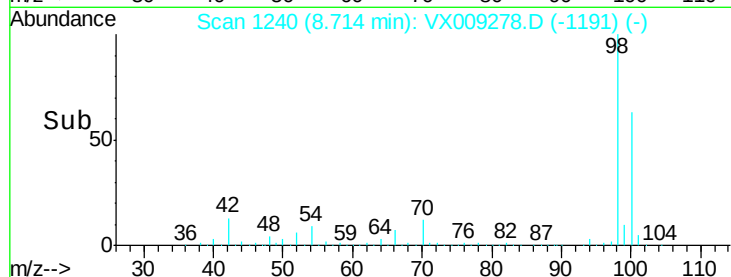
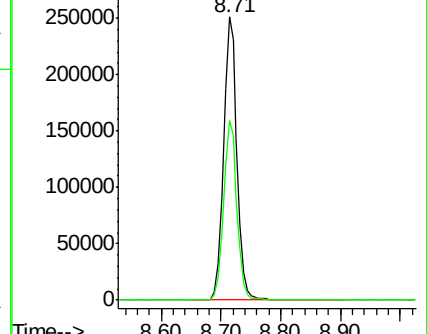
98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 44.927 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

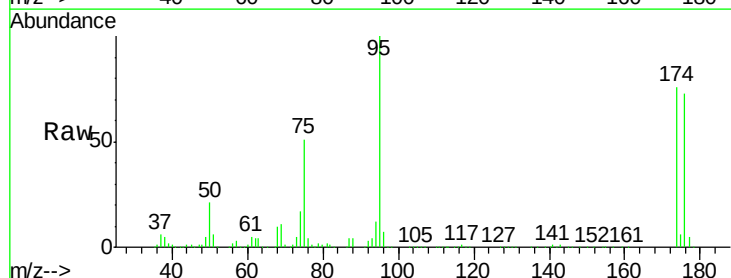
Tgt Ion: 95 Resp: 128464

Ion Ratio Lower Upper

95 100

174 81.2 0.0 161.6

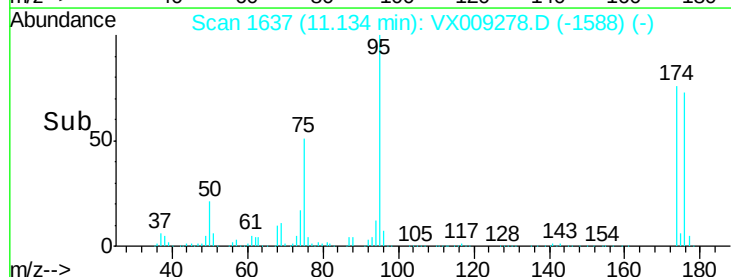
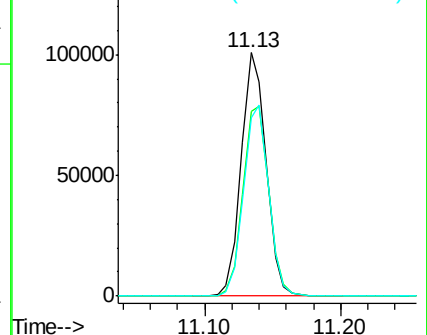
176 79.7 0.0 159.2

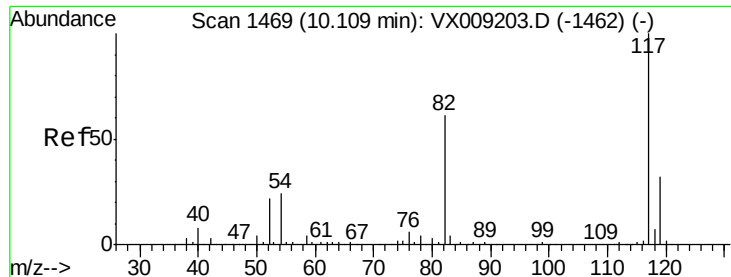


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

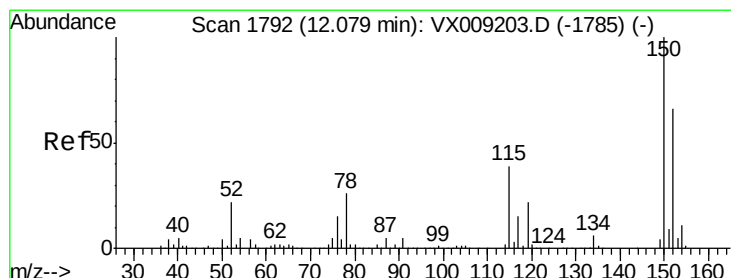
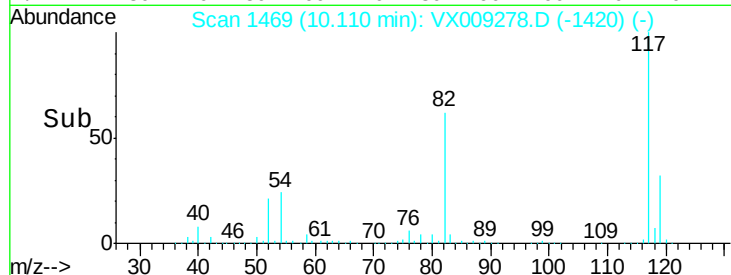
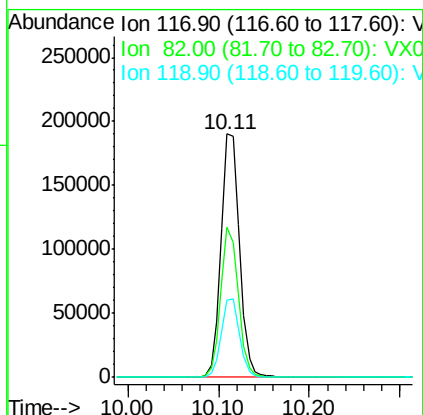
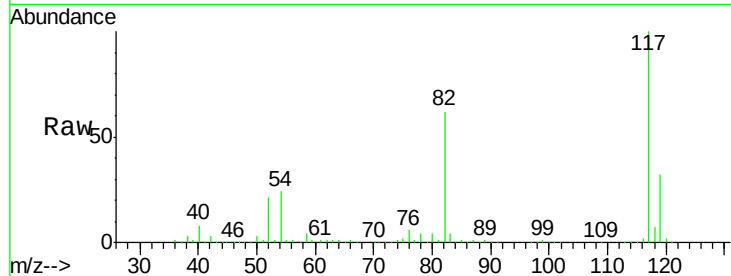




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.11 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VX009278.D
 Acq: 02 May 2019 17:14

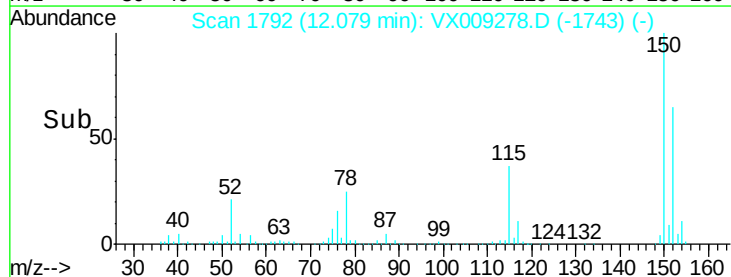
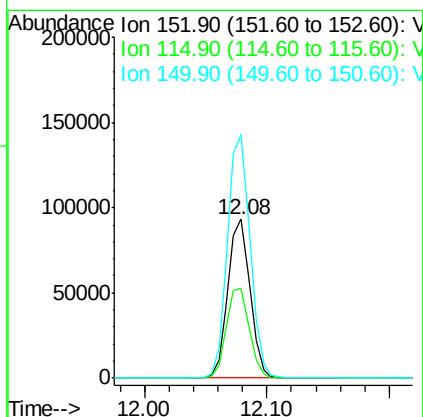
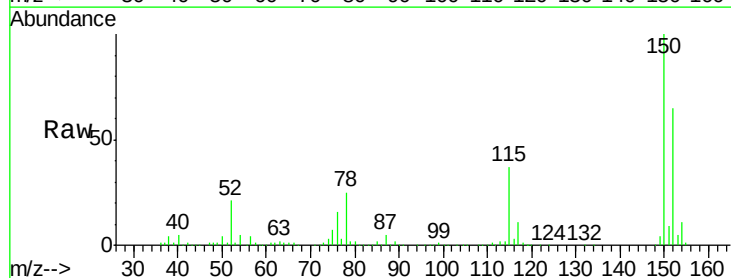
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB13-190429

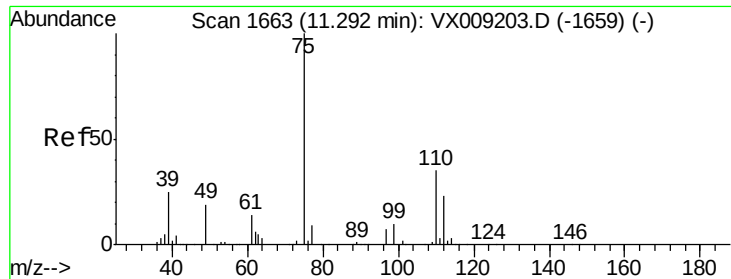
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.9	48.8	73.2
119	31.7	25.8	38.6



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX009278.D
 Acq: 02 May 2019 17:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.8	41.2	123.6
150	156.1	0.0	346.4





#76

1,2,3-Trichloropropane

Concen: 24.231 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

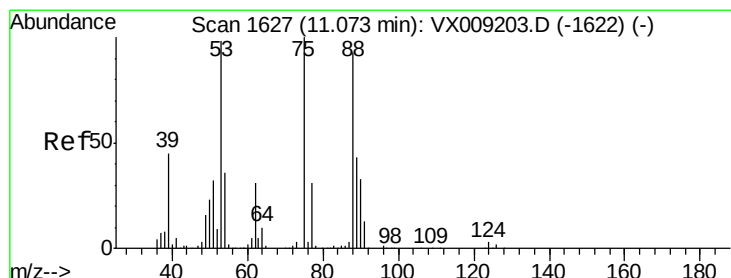
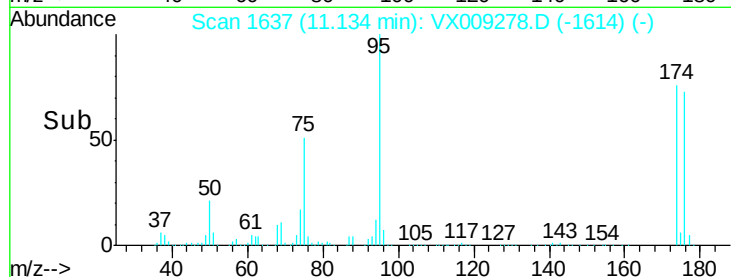
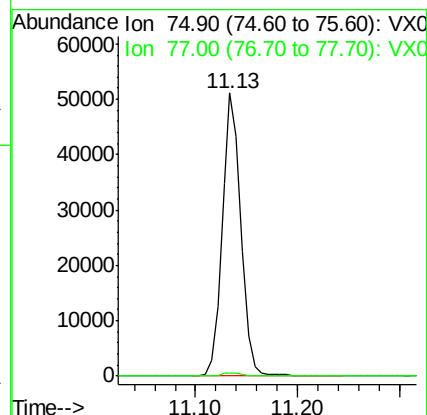
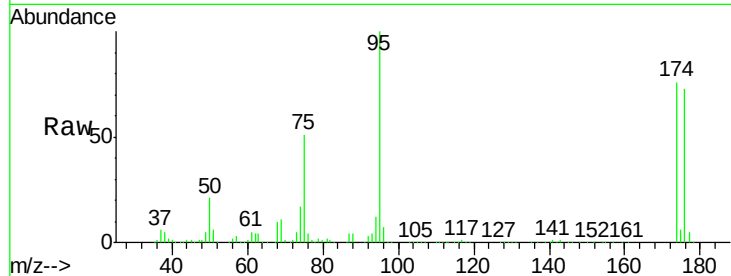
Z3-TB13-190429

Tot Ion: 75 Resp: 65360

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.997 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009278.D

Acq: 02 May 2019 17:14

Tgt Ion: 75 Resp: 65360

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

