

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082918\
 Data File : VX004283.D
 Acq On : 29 Aug 2018 10:56
 Operator : JC/MD
 Sample : J4682-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RB1-082218

Quant Time: Aug 30 02:06:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	282447	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	436392	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	396455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	220000	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	190748	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	
35) Dibromofluoromethane	5.50	113	166300	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
50) Toluene-d8	8.72	98	612117	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.14	95	213399	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	

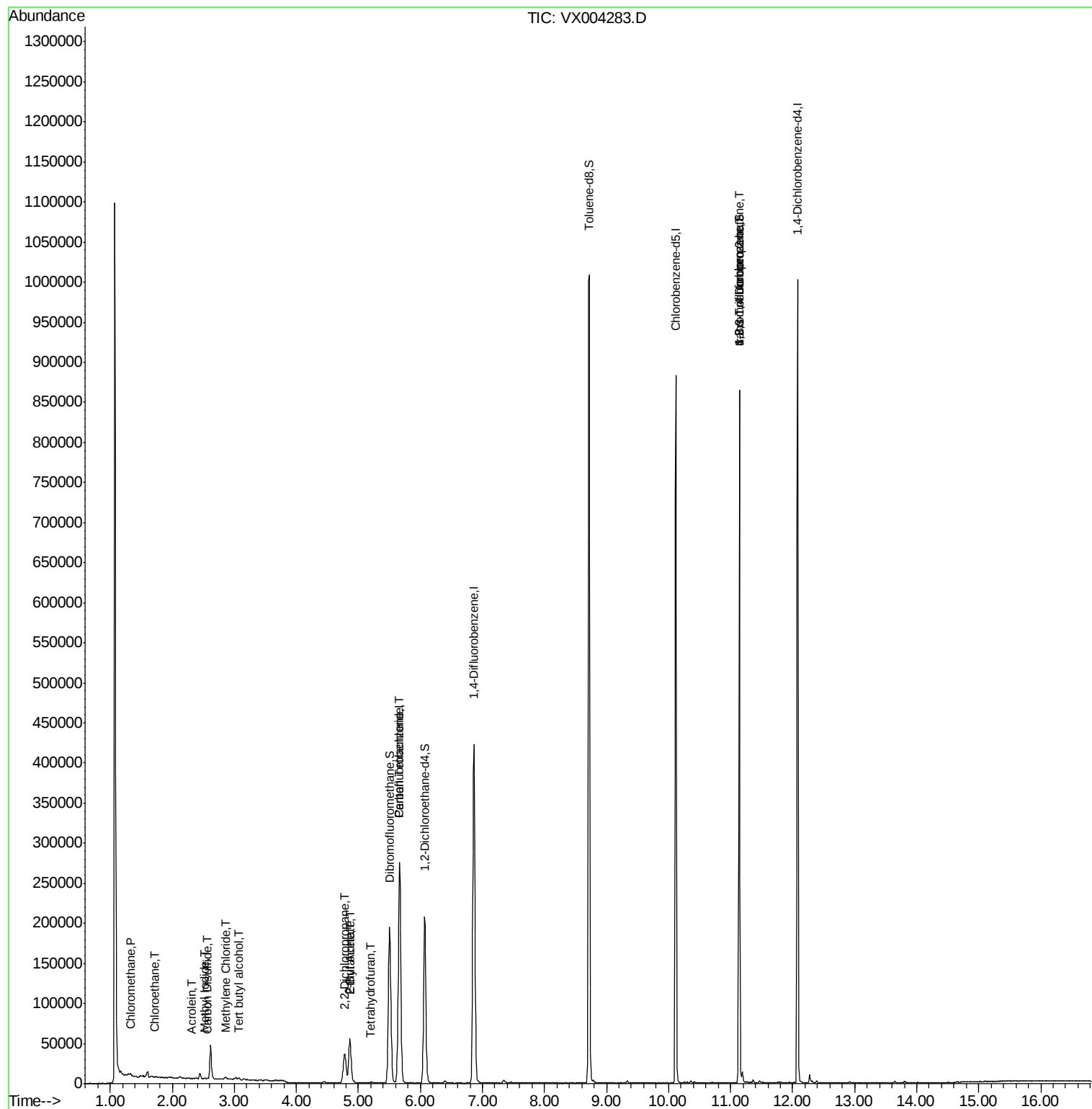
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1371	0.67	ug/l	97
5) Bromomethane	1.65	94	1494	Below Cal		96
6) Chloroethane	1.72	64	244	1.05	ug/l #	57
10) Methyl Iodide	2.51	142	1439	4.63	ug/l	93
11) Tert butyl alcohol	3.07	59	3071	3.91	ug/l #	90
13) Acrolein	2.31	56	181	0.96	ug/l	88
16) Acetone	2.45	43	7657	Below Cal		93
17) Carbon Disulfide	2.57	76	1457	0.97	ug/l #	87
20) Methylene Chloride	2.86	84	951	0.27	ug/l #	84
25) 2-Butanone	4.86	43	91670	34.71	ug/l #	47
26) 2,2-Dichloropropane	4.77	77	3206	0.68	ug/l #	52
29) Tetrahydrofuran	5.18	42	388	0.25	ug/l #	31
37) Ethyl Acetate	4.86	43	92916	19.26	ug/l	98
38) Carbon Tetrachloride	5.66	117	24554	5.32	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	103465	23.12	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	103465	75.03	ug/l #	10
94) Hexachlorobutadiene	13.79	225	283	Below Cal		90

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

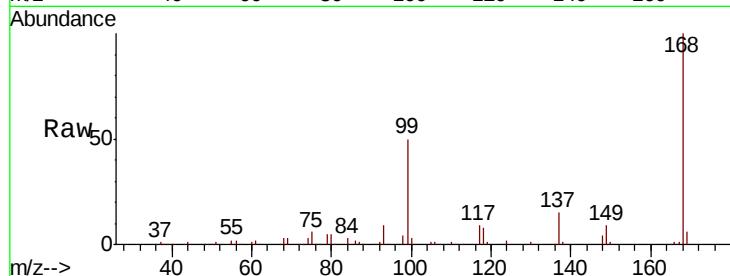
RB1-082218

Tot Ion:168 Resp: 282447

Ion Ratio Lower Upper

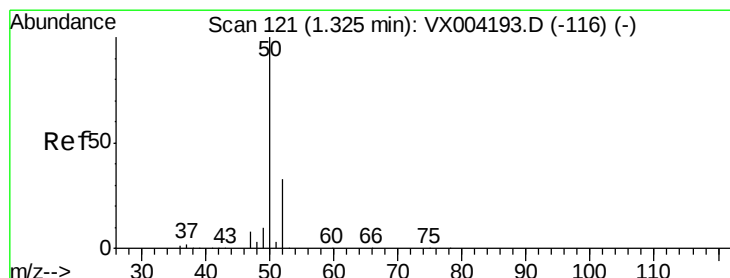
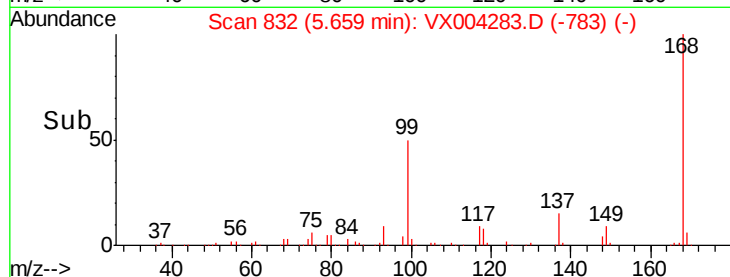
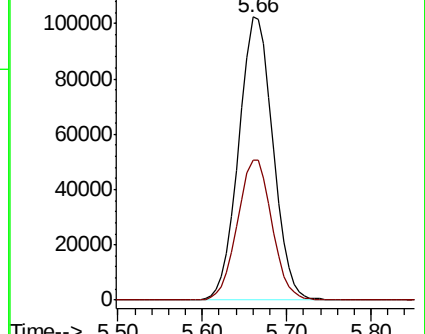
168 100

99 49.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.67 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004283.D

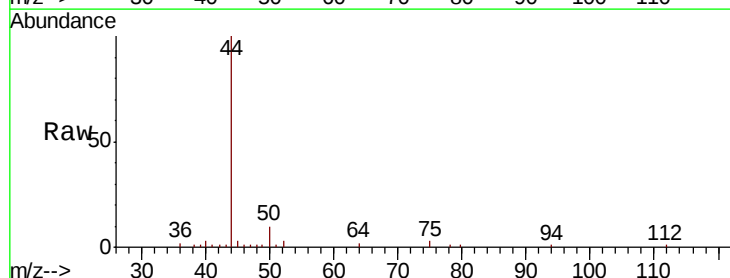
Acq: 29 Aug 2018 10:56

Tgt Ion: 50 Resp: 1371

Ion Ratio Lower Upper

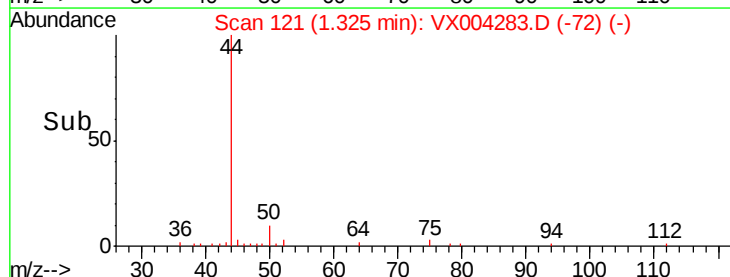
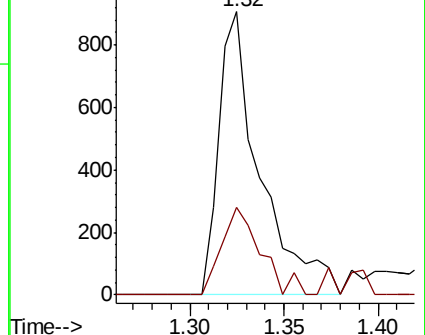
50 100

52 31.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

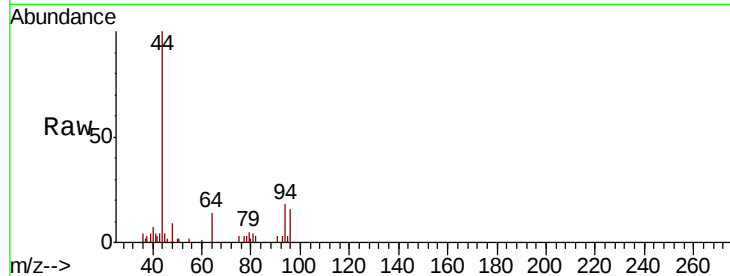
RB1-082218

Tot Ion: 94 Resp: 1494

Ion Ratio Lower Upper

94 100

96 88.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

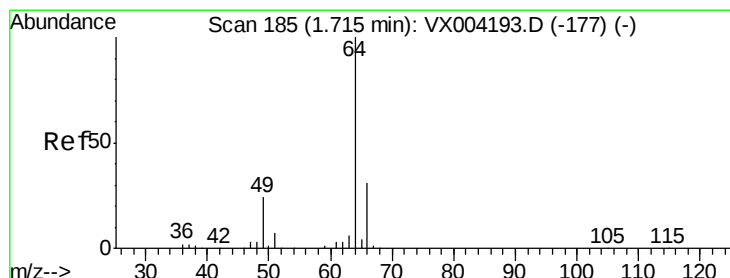
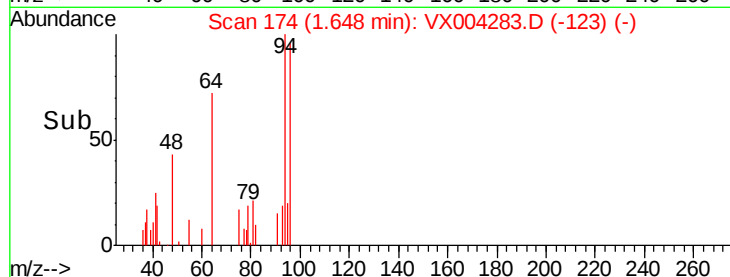
400

200

0

1.60 1.65 1.70 1.75

Time-->



#6

Chloroethane

Concen: 1.05 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX004283.D

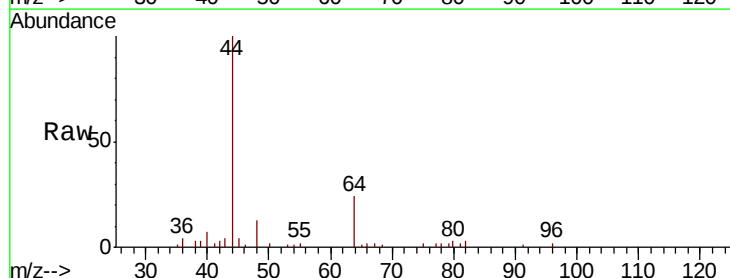
Acq: 29 Aug 2018 10:56

Tgt Ion: 64 Resp: 244

Ion Ratio Lower Upper

64 100

66 7.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1200

1000

800

600

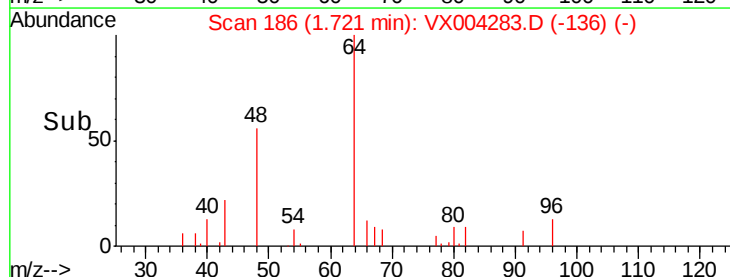
400

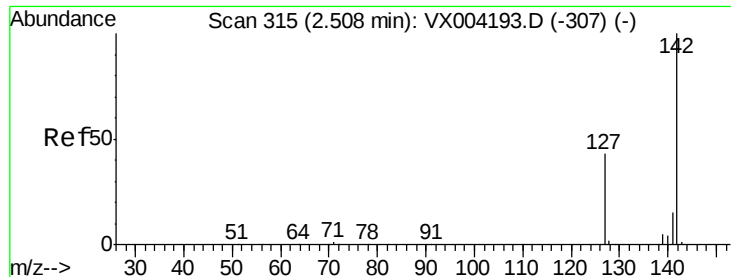
200

0

1.71 1.72 1.73 1.74

Time-->

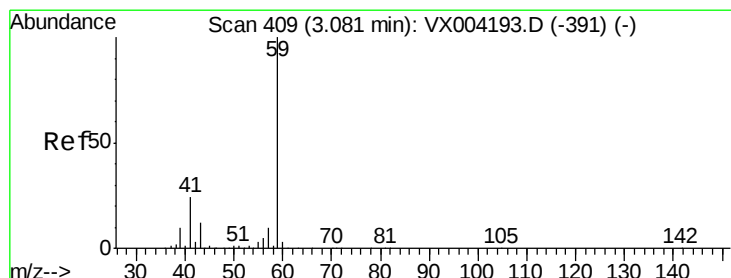
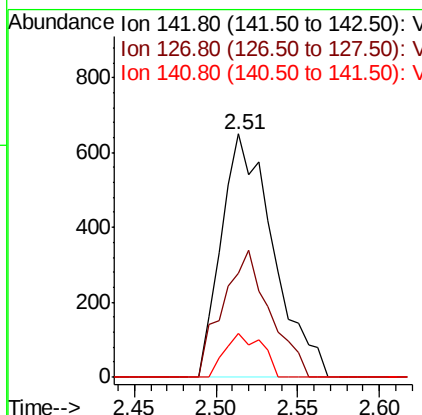
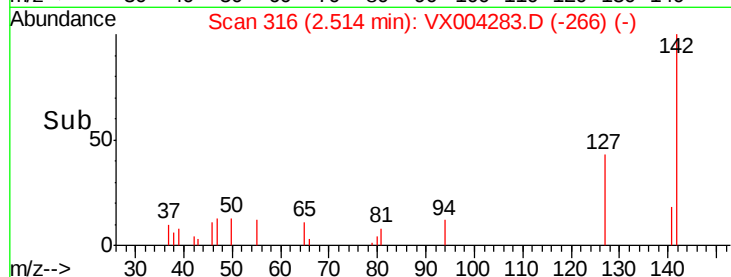
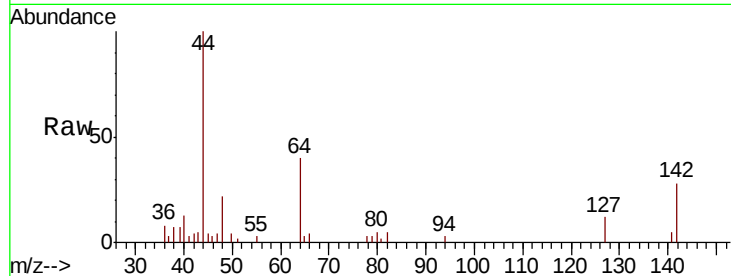




#10
Methvl Iodide
Concen: 4.63 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

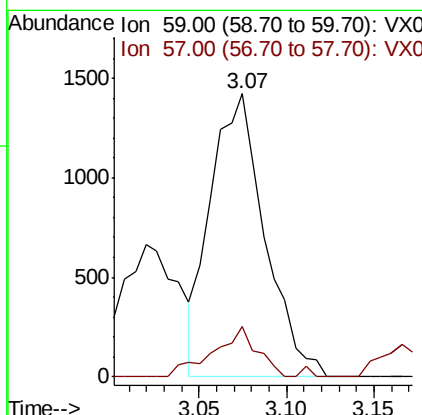
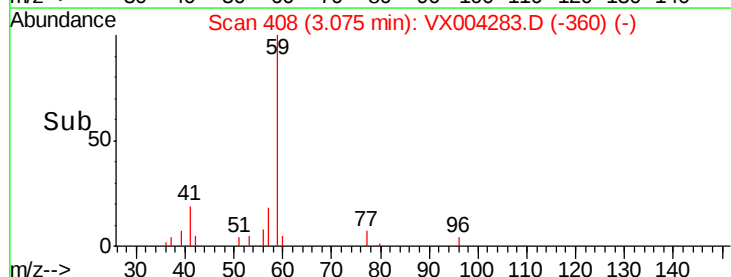
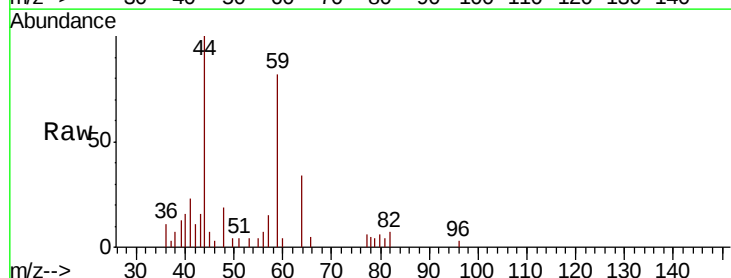
Instrument :
MSVOA_X
ClientSampleId :
RB1-082218

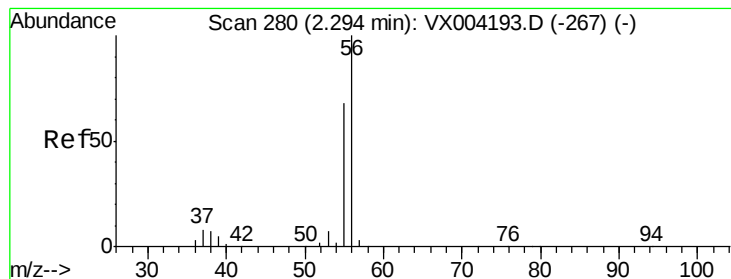
Tot Ion:142 Resp: 1439
Ion Ratio Lower Upper
142 100
127 47.2 33.8 50.6
141 13.0 11.4 17.0



#11
Tert butyl alcohol
Concen: 3.91 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

Tgt Ion: 59 Resp: 3071
Ion Ratio Lower Upper
59 100
57 14.2 8.2 12.4#





#13

Acrolein

Concen: 0.96 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

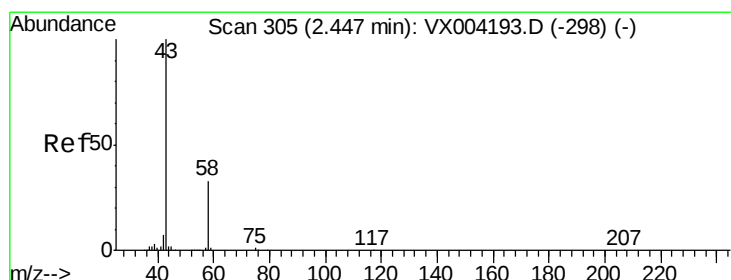
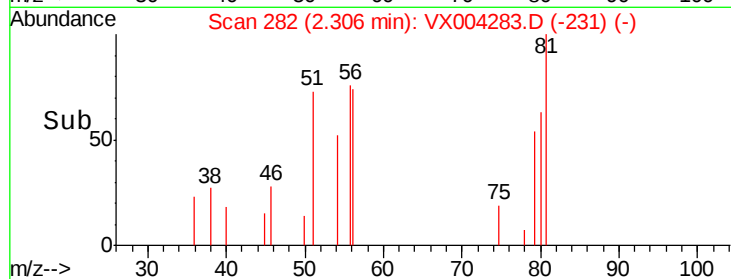
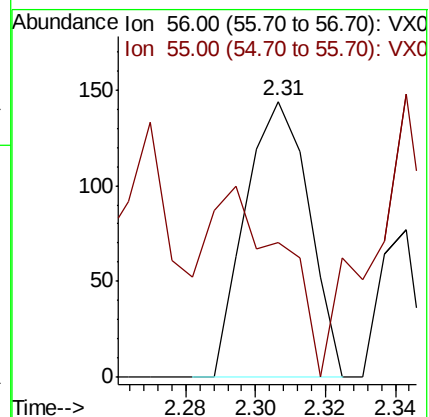
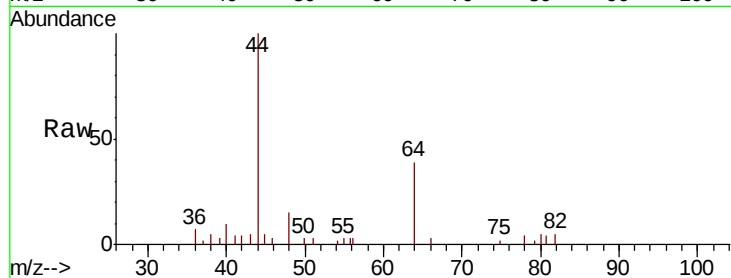
RB1-082218

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 77.9 54.7 82.1



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004283.D

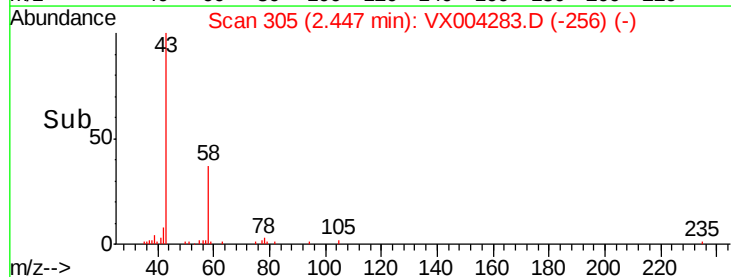
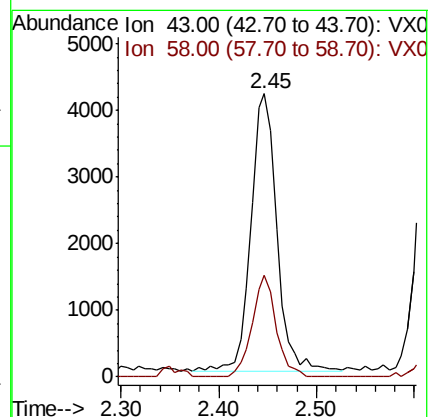
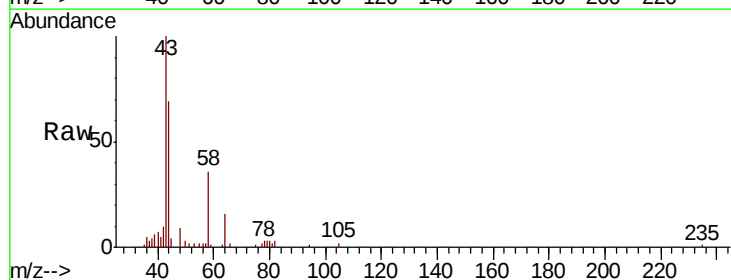
Acq: 29 Aug 2018 10:56

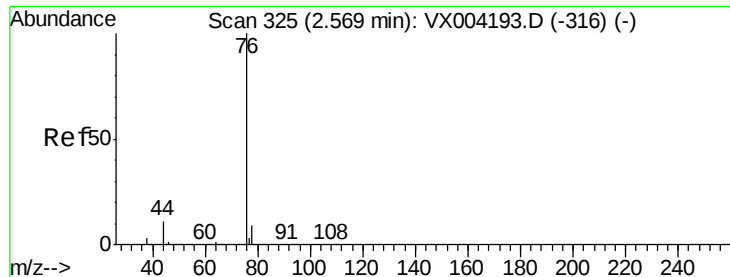
Tgt Ion: 43 Resp: 7657

Ion Ratio Lower Upper

43 100

58 36.5 26.2 39.4





#17

Carbon Disulfide

Concen: 0.97 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

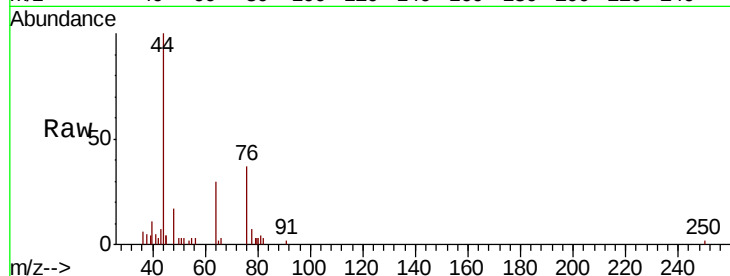
RB1-082218

Tot Ion: 76 Resp: 1457

Ion Ratio Lower Upper

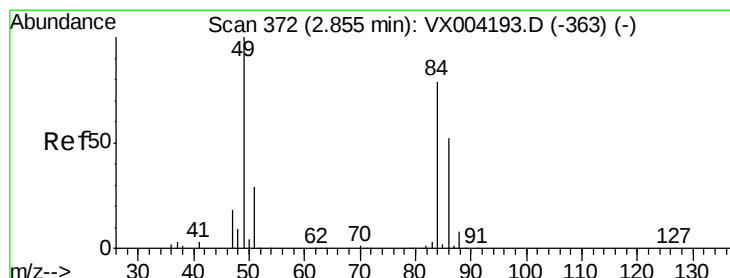
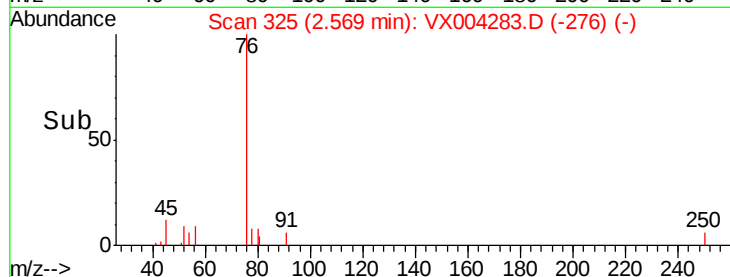
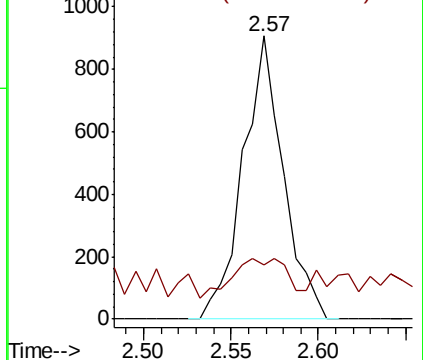
76 100

78 4.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.27 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Tgt Ion: 84 Resp: 951

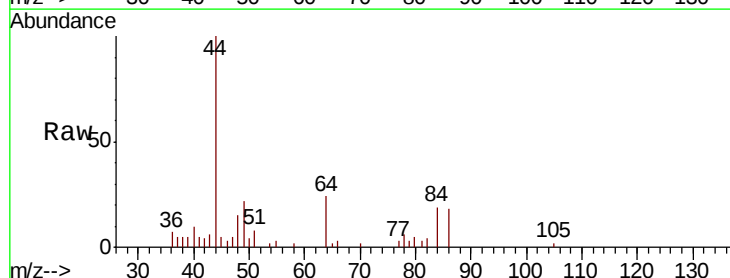
Ion Ratio Lower Upper

84 100

49 117.7 101.2 151.8

51 41.6 29.5 44.3

86 94.2 52.3 78.5#

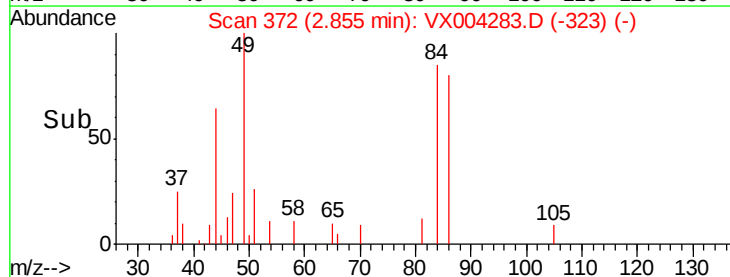
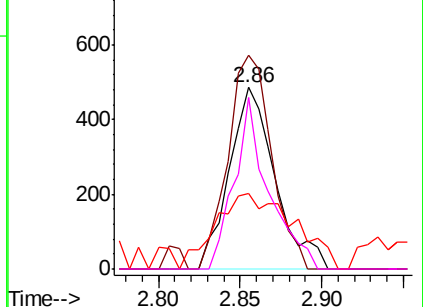


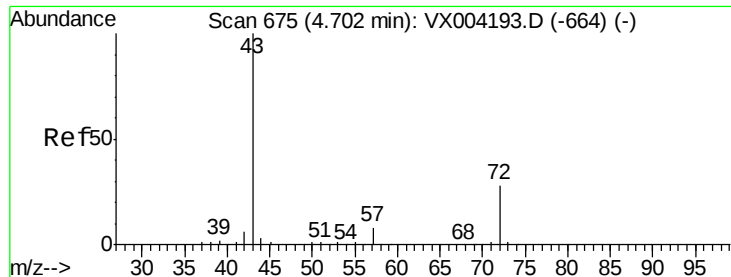
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 34.71 ug/l

RT: 4.86 min Scan# 701

Delta R.T. 0.16 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

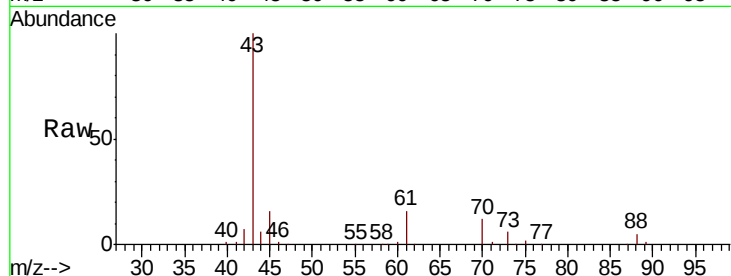
RB1-082218

Tot Ion: 43 Resp: 91670

Ion Ratio Lower Upper

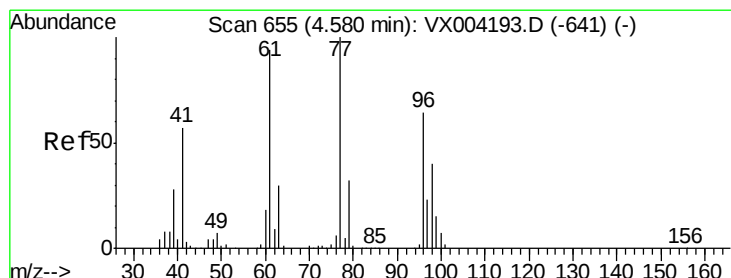
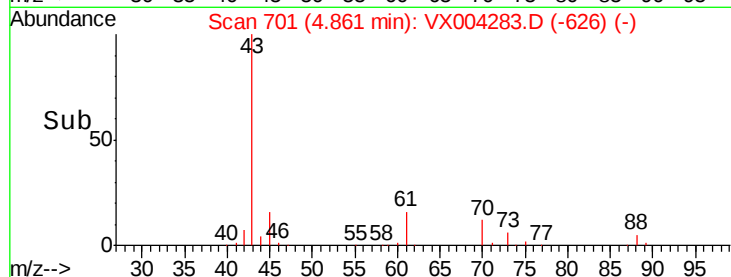
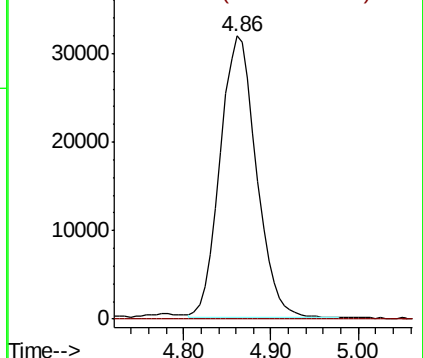
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.68 ug/l

RT: 4.77 min Scan# 686

Delta R.T. 0.19 min

Lab File: VX004283.D

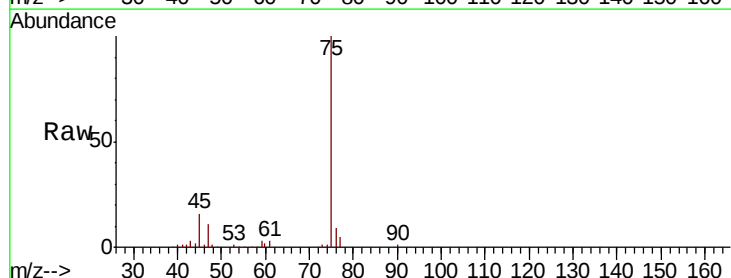
Acq: 29 Aug 2018 10:56

Tgt Ion: 77 Resp: 3206

Ion Ratio Lower Upper

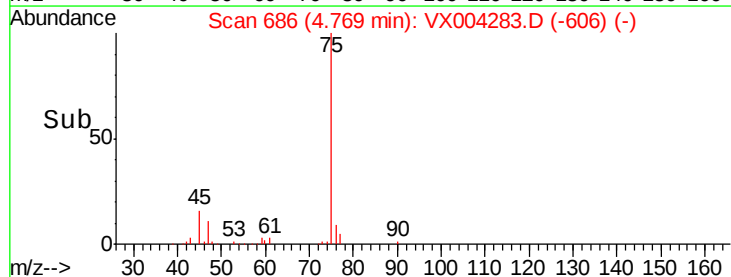
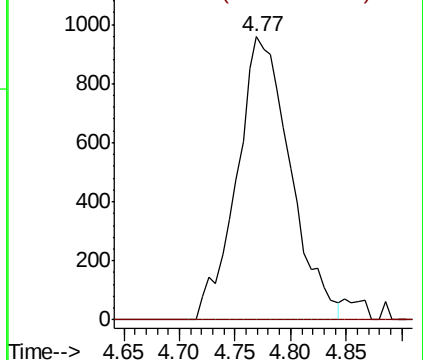
77 100

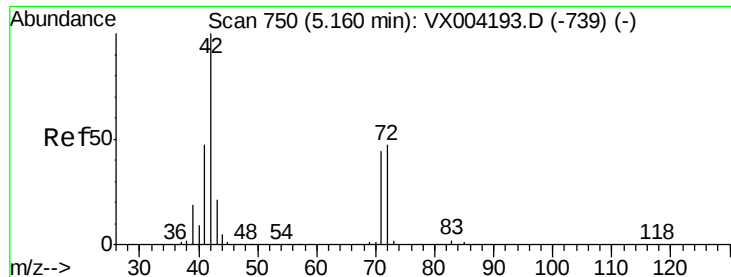
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



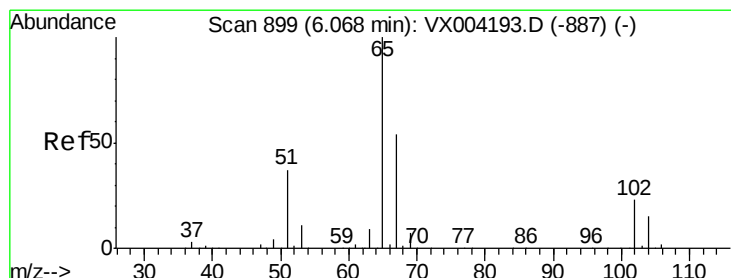
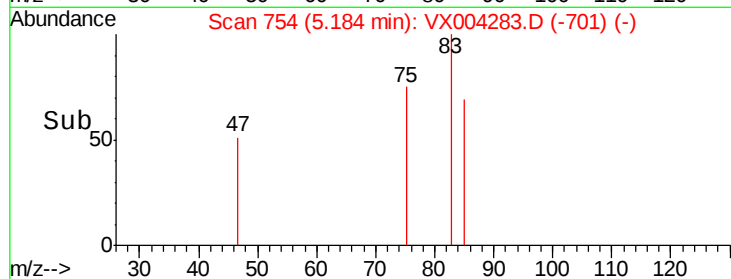
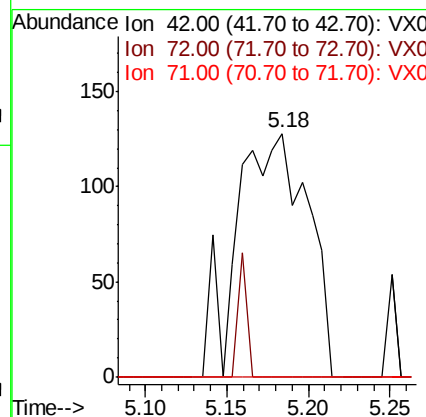
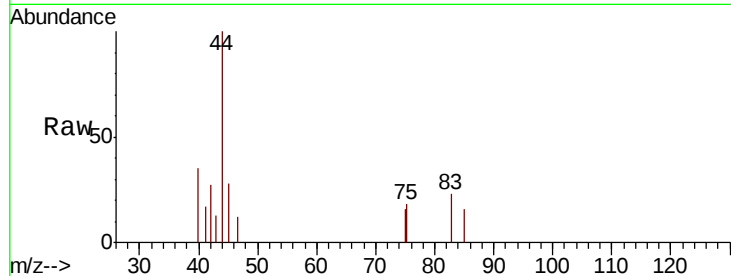


#29
Tetrahydrofuran
Concen: 0.25 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

Instrument :
MSVOA_X
ClientSampleID :
RB1-082218

Tot Ion: 42 Resp: 388

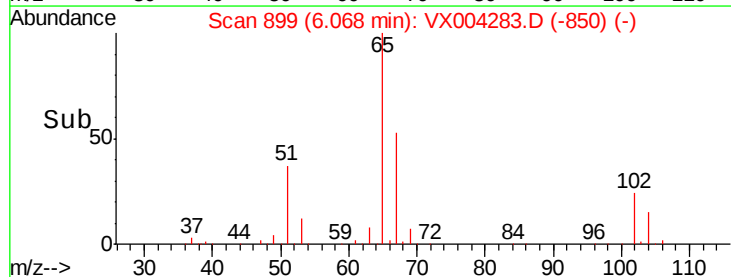
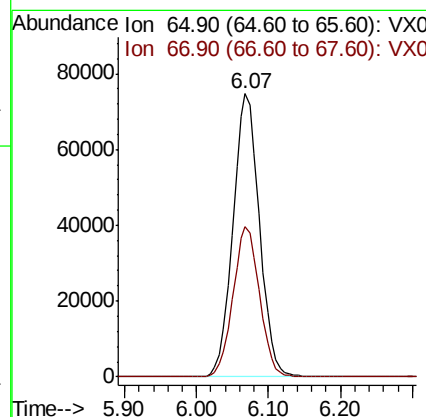
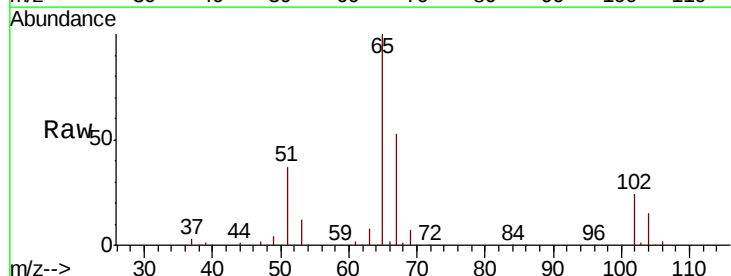
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.4	56.0#
71	0.0	34.5	51.7#

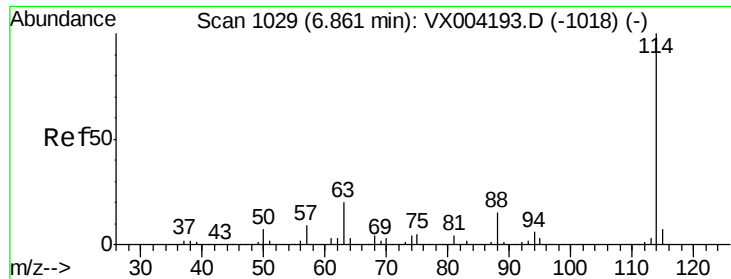


#33
1,2-Dichloroethane-d4
Concen: 51.81 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

Tgt Ion: 65 Resp: 190748

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8

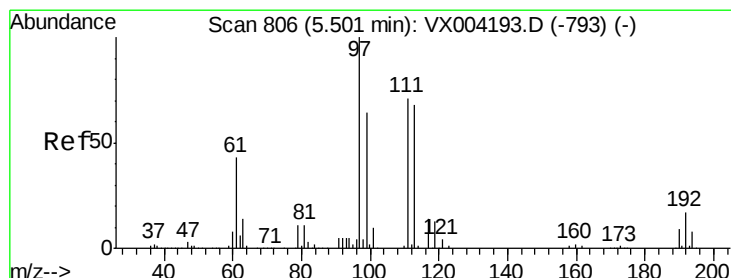
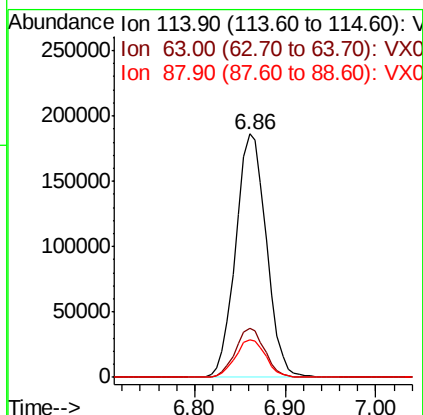
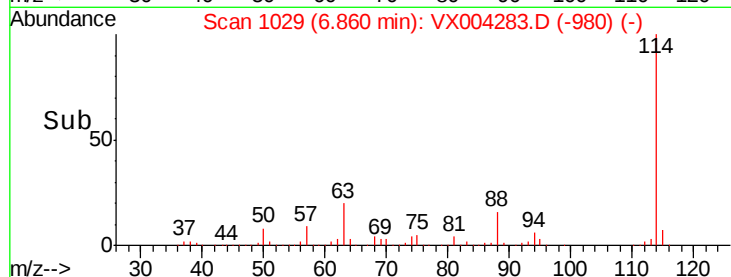
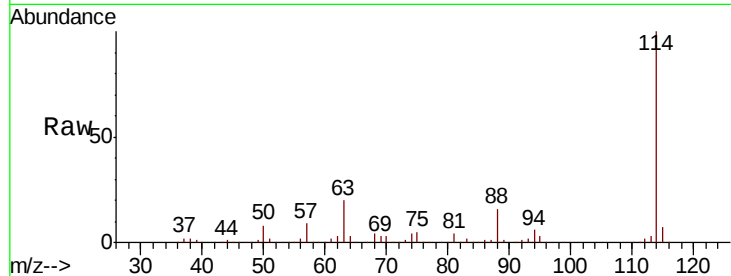




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

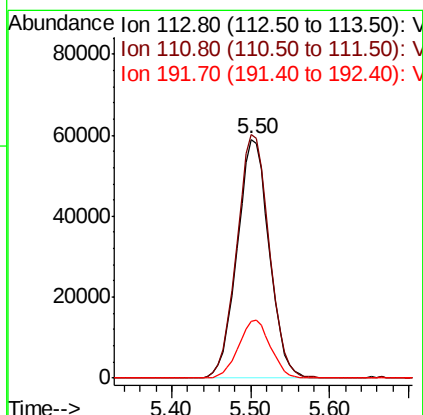
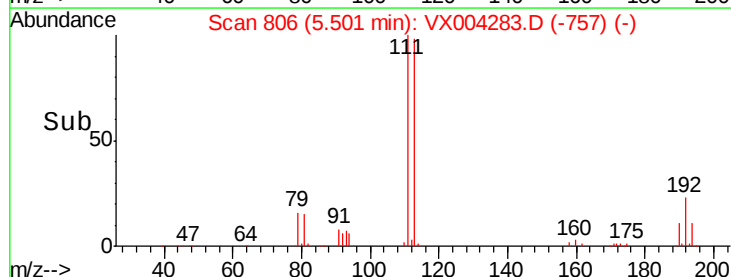
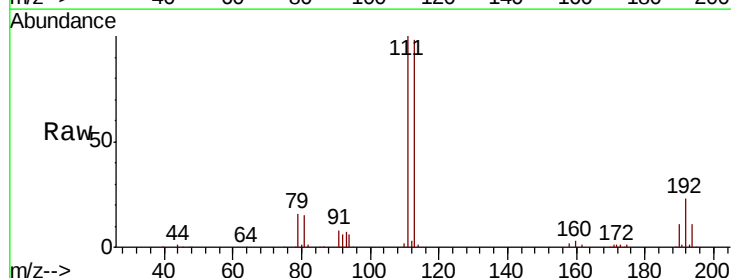
Instrument :
MSVOA_X
ClientSampleId :
RB1-082218

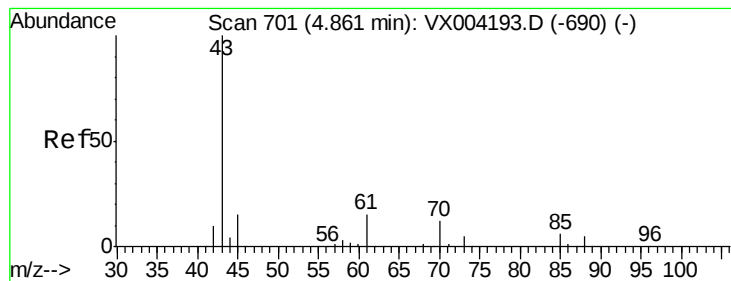
Tot Ion:114 Resp: 436392
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.0
88 15.6 0.0 30.4



#35
Dibromofluoromethane
Concen: 51.22 ug/l
RT: 5.50 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

Tgt Ion:113 Resp: 166300
Ion Ratio Lower Upper
113 100
111 103.4 82.4 123.6
192 24.3 19.4 29.2





#37

Ethyl Acetate

Concen: 19.26 ug/l

RT: 4.86 min Scan# 701

Delta R.T. -0.00 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

RB1-082218

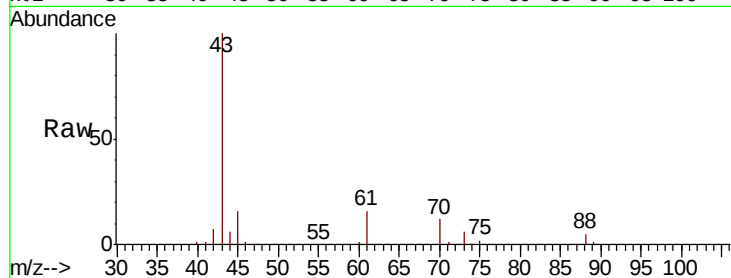
Tot Ion: 43 Resp: 92916

Ion Ratio Lower Upper

43 100

61 15.5 11.5 17.3

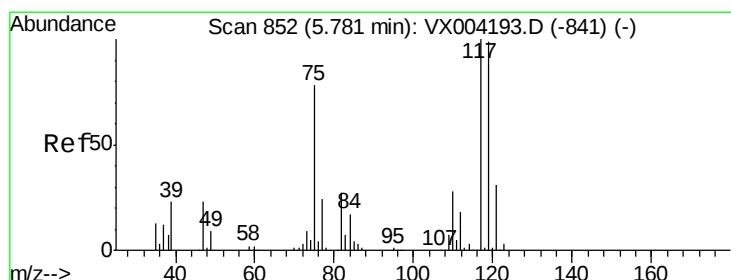
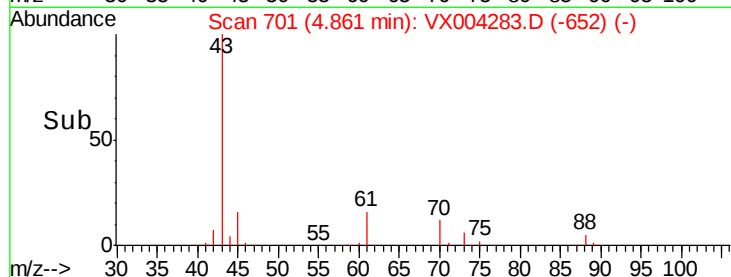
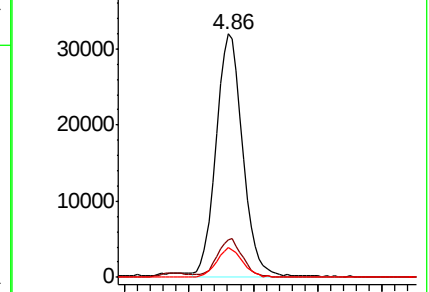
70 11.9 9.0 13.6



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: 5.32 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

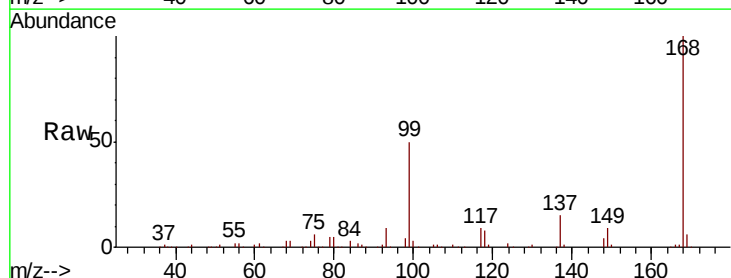
Tgt Ion: 117 Resp: 24554

Ion Ratio Lower Upper

117 100

119 5.8 78.8 118.2#

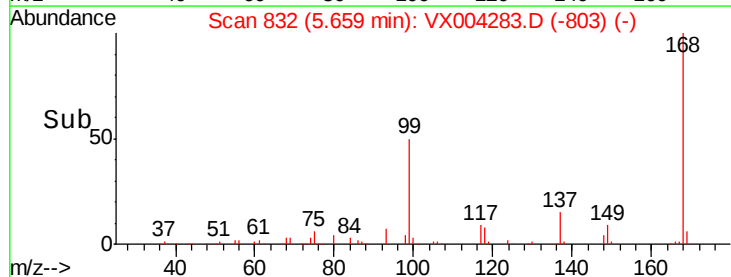
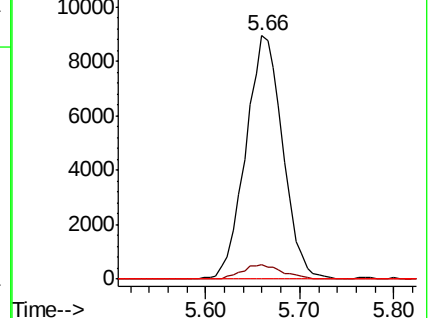
121 0.0 24.9 37.3#

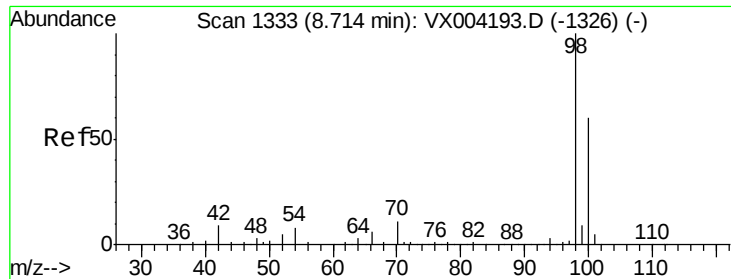


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

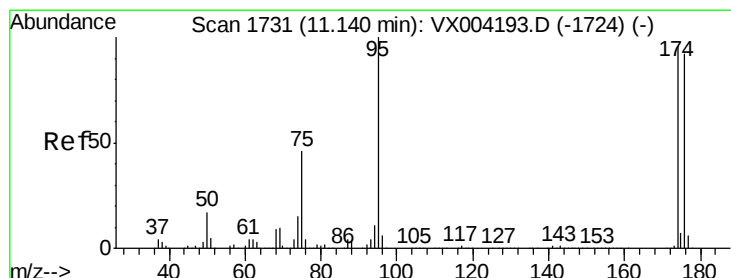
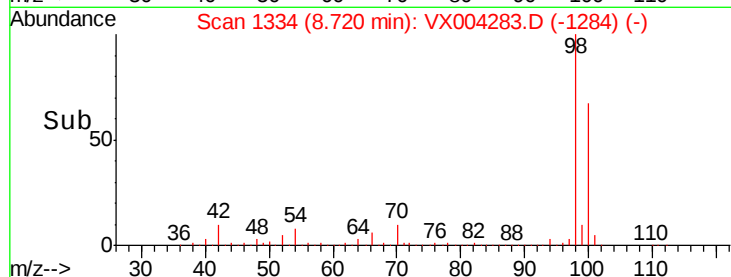
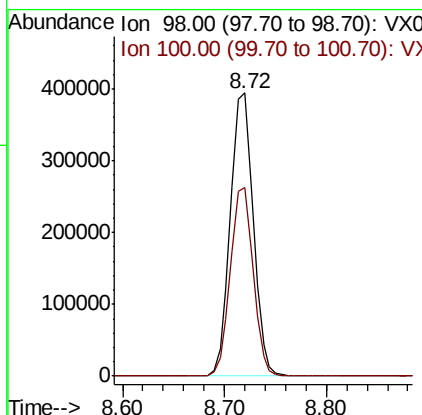
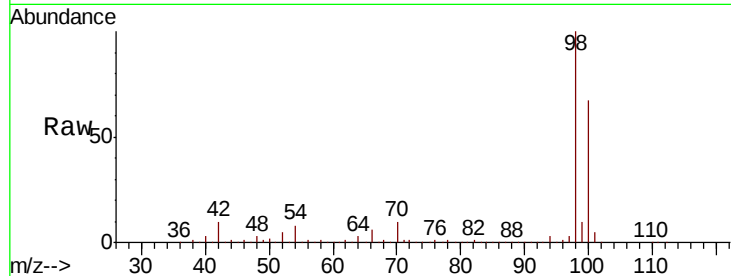




#50
Toluene-d8
Concen: 49.95 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.01 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

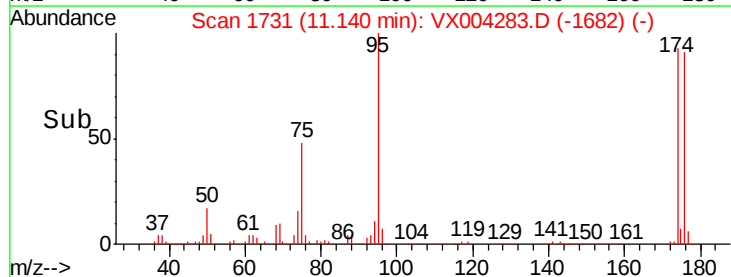
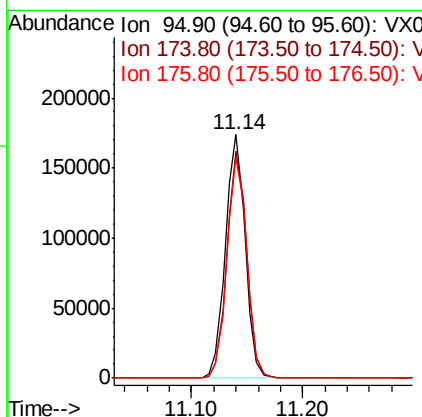
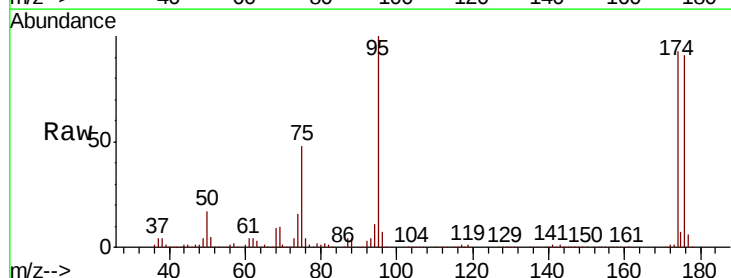
Instrument :
MSVOA_X
ClientSampleId :
RB1-082218

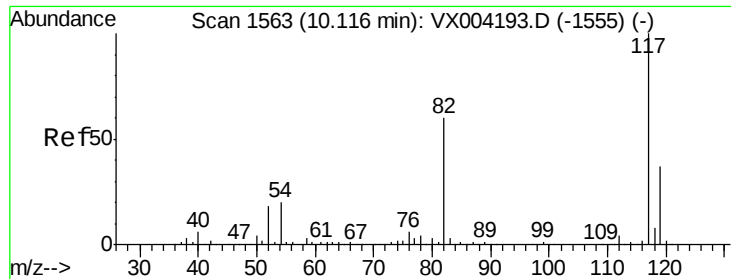
Tot Ion: 98 Resp: 612117
Ion Ratio Lower Upper
98 100
100 66.1 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 46.67 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

Tgt Ion: 95 Resp: 213399
Ion Ratio Lower Upper
95 100
174 93.7 0.0 185.2
176 90.9 0.0 178.6

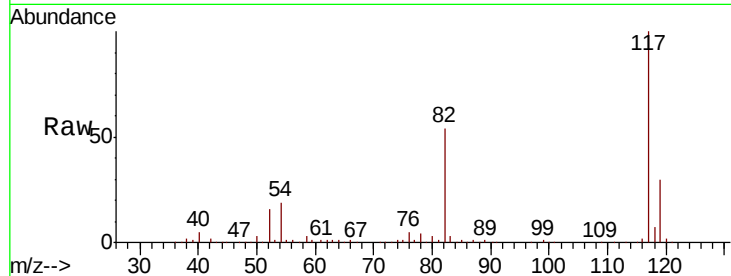




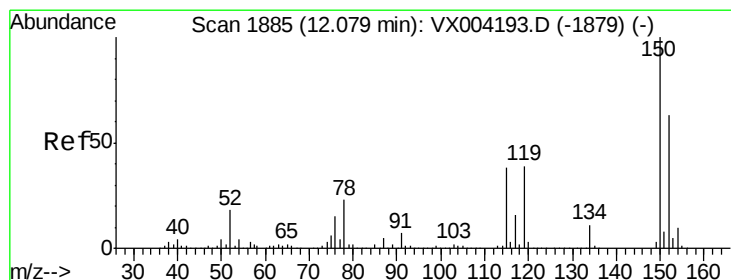
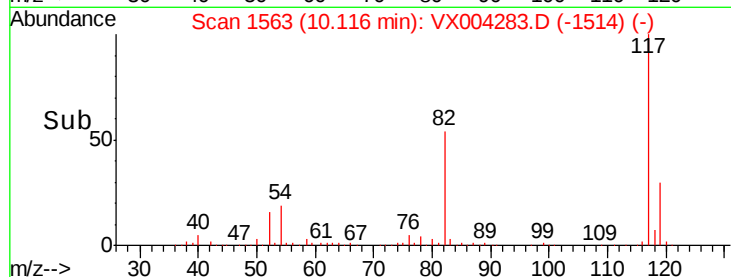
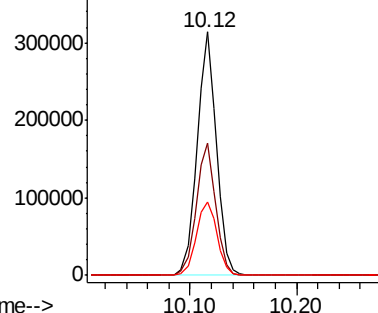
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

Instrument :
MSVOA_X
ClientSampleId :
RB1-082218

Tot Ion:117 Resp: 396455
Ion Ratio Lower Upper
117 100
82 54.4 47.8 71.6
119 29.9 29.3 43.9

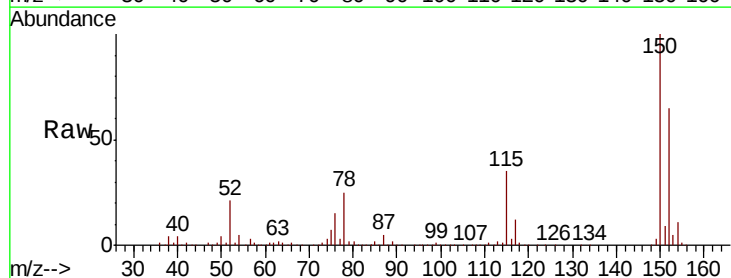


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

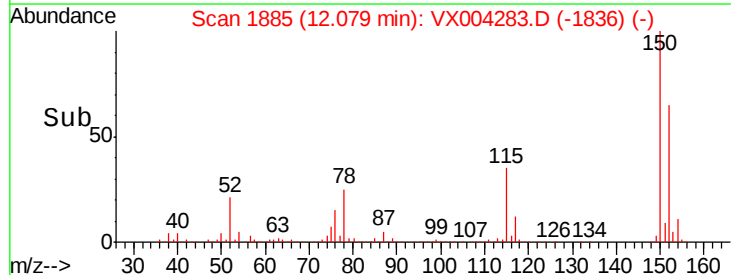
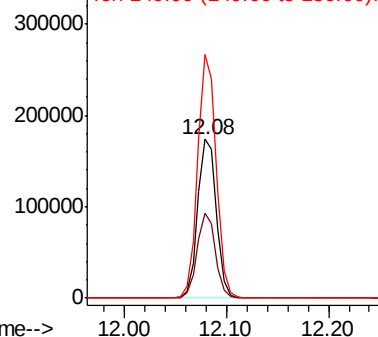


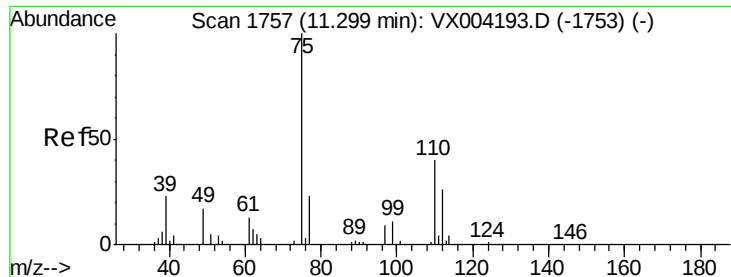
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004283.D
Acq: 29 Aug 2018 10:56

Tgt Ion:152 Resp: 220000
Ion Ratio Lower Upper
152 100
115 52.8 39.0 117.0
150 151.8 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: 23.12 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

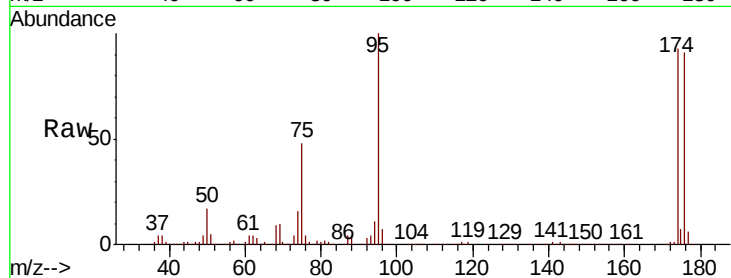
RB1-082218

Tot Ion: 75 Resp: 103465

Ion Ratio Lower Upper

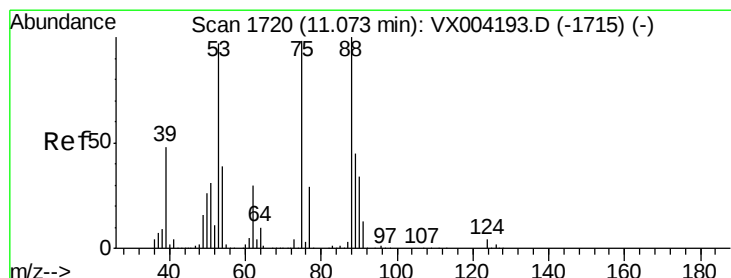
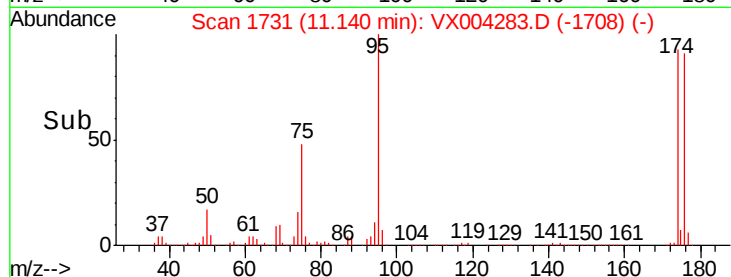
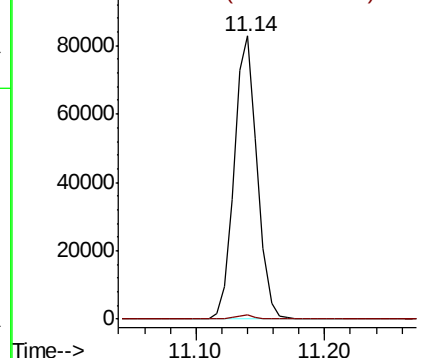
75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 75.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004283.D

Acq: 29 Aug 2018 10:56

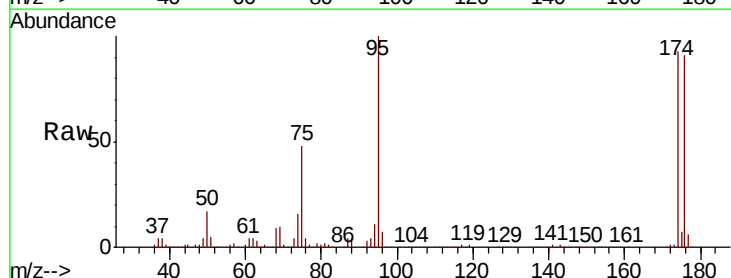
Tgt Ion: 75 Resp: 103465

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

