

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082818\
 Data File : VX004270.D
 Acq On : 28 Aug 2018 16:02
 Operator : JC/MD
 Sample : VX0828MBL01
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0828MBL01

Quant Time: Aug 28 16:19:46 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	275716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	425430	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	402176	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	225036	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	185513	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
35) Dibromofluoromethane	5.50	113	161927	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
50) Toluene-d8	8.71	98	598698	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	11.14	95	213306	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	

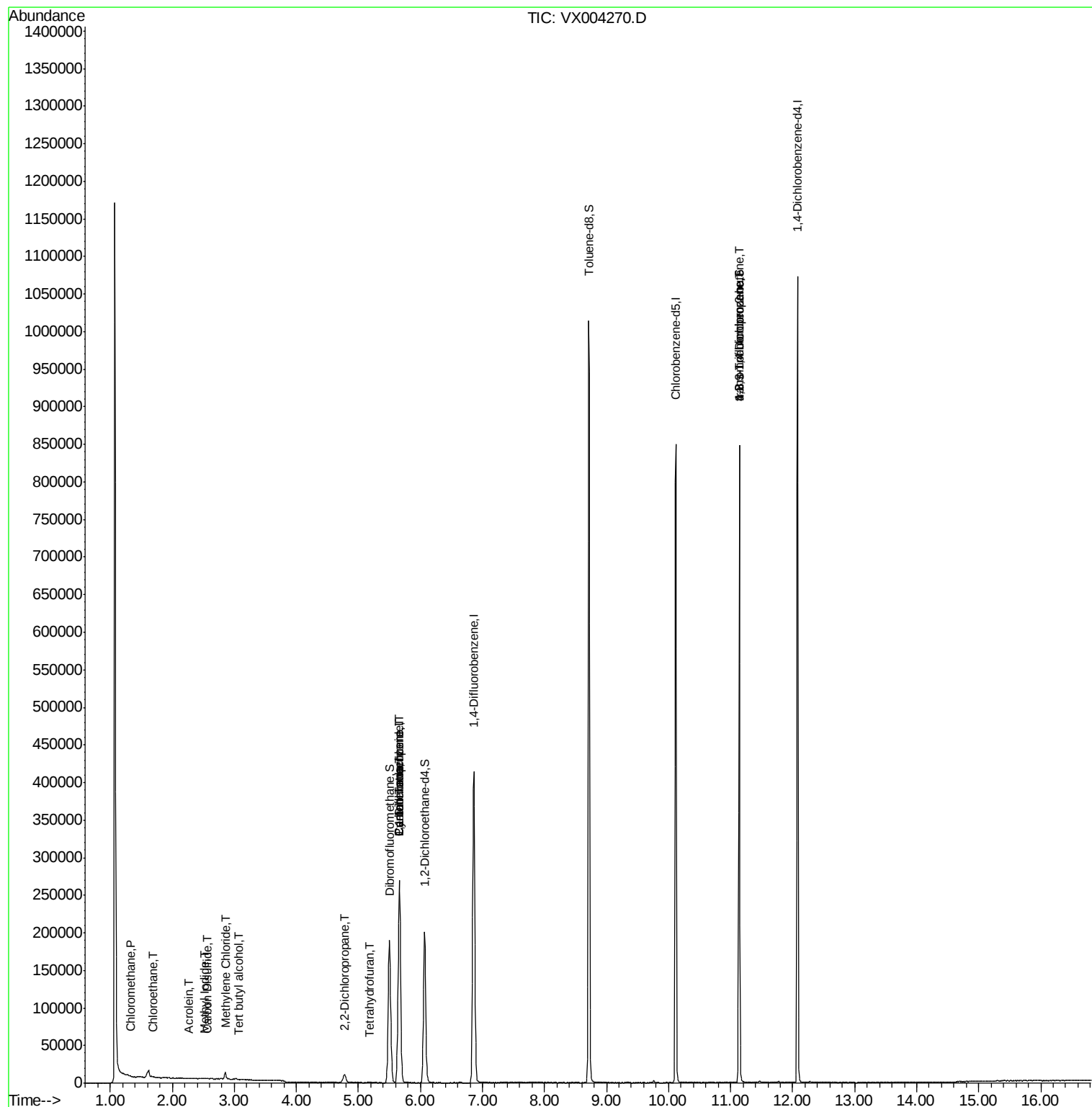
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1123	0.606	ug/l #	81
5) Bromomethane	1.64	94	1535	Below Cal	#	78
6) Chloroethane	1.69	64	260	1.059	ug/l #	57
10) Methyl Iodide	2.52	142	905	4.501	ug/l #	88
11) Tert butyl alcohol	3.06	59	360	0.470	ug/l	95
13) Acrolein	2.28	56	112	0.606	ug/l #	43
16) Acetone	2.45	43	1366	Below Cal	#	82
17) Carbon Disulfide	2.56	76	628	0.874	ug/l #	89
20) Methylene Chloride	2.85	84	4130	1.194	ug/l #	93
25) 2-Butanone	4.70	43	139	Below Cal	#	47
26) 2,2-Dichloropropane	4.78	77	1051	0.229	ug/l #	52
29) Tetrahydrofuran	5.17	42	796	0.516	ug/l #	63
31) Cyclohexane	5.67	56	4474	0.888	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	17638	3.688	ug/l #	51
38) Carbon Tetrachloride	5.66	117	24012	5.337	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	102230	22.336	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	102230	72.472	ug/l #	10

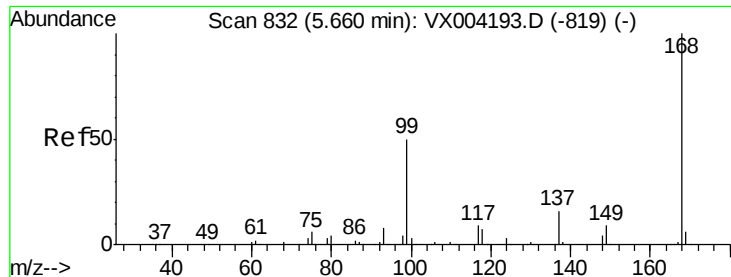
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX082818\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampled :

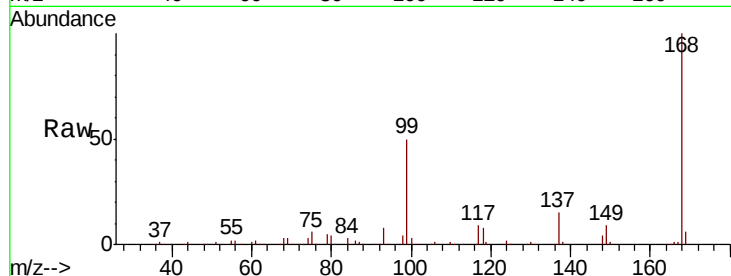
VX0828MBL01

Tgt Ion:168 Resp: 275716

Ion Ratio Lower Upper

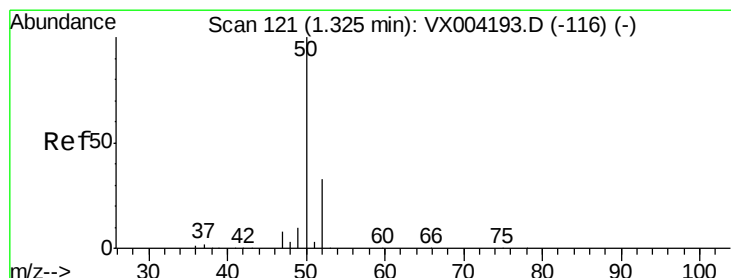
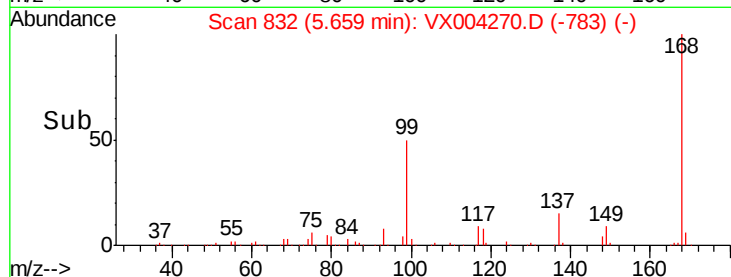
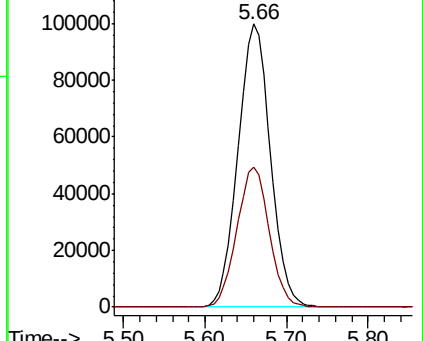
168 100

99 49.7 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: 0.606 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004270.D

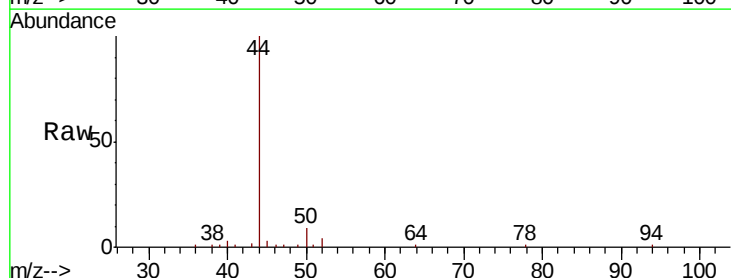
Acq: 28 Aug 2018 16:02

Tgt Ion: 50 Resp: 1123

Ion Ratio Lower Upper

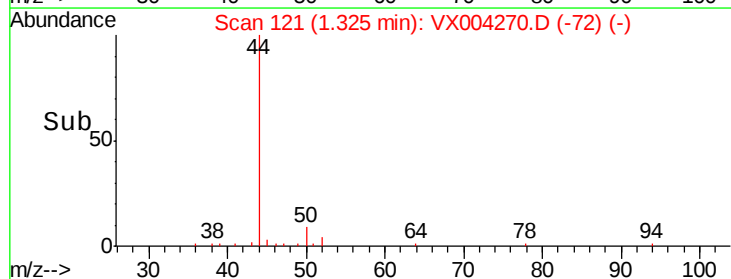
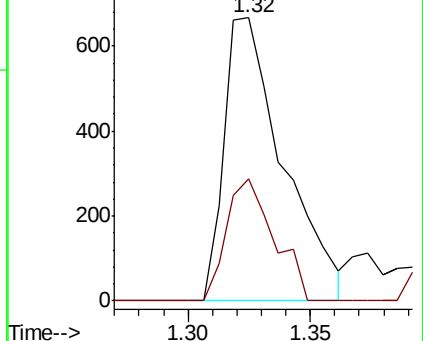
50 100

52 43.3 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: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

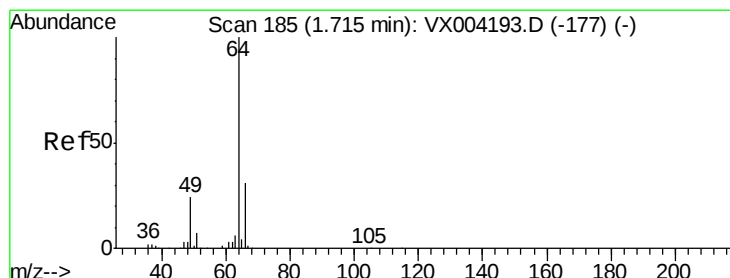
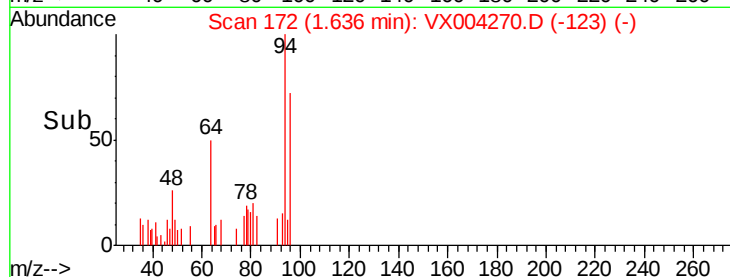
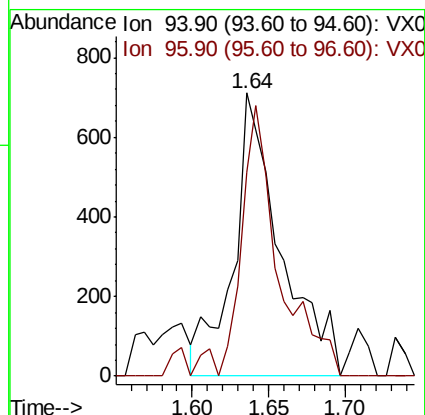
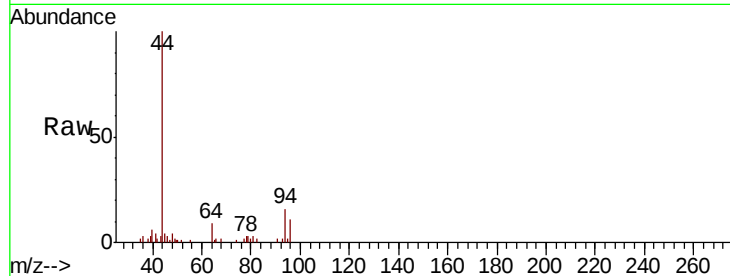
VX0828MBL01

Tgt Ion: 94 Resp: 1535

Ion Ratio Lower Upper

94 100

96 72.3 74.5 111.7#



#6

Chloroethane

Concen: 1.059 ug/l

RT: 1.69 min Scan# 181

Delta R.T. -0.02 min

Lab File: VX004270.D

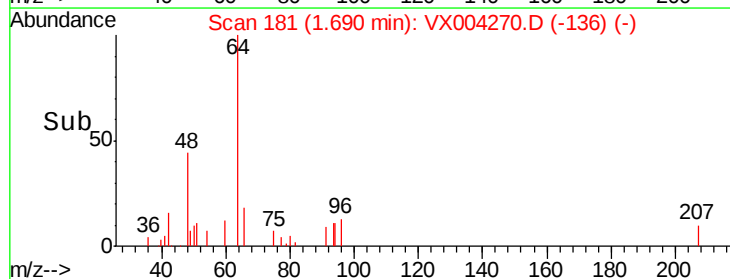
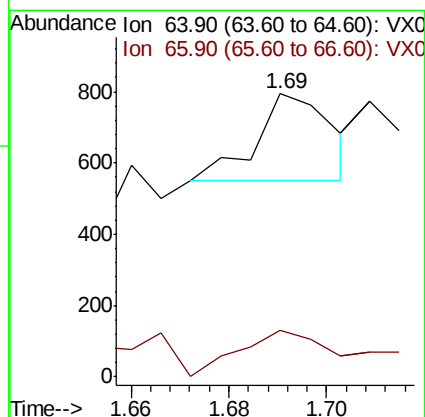
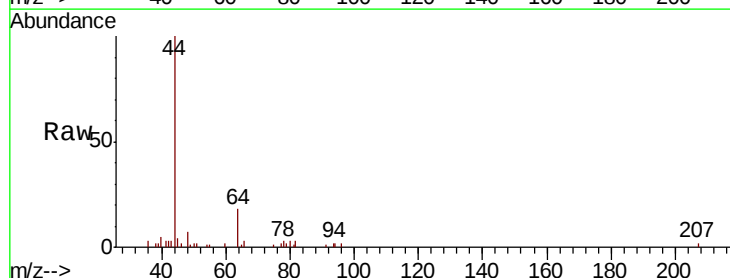
Acq: 28 Aug 2018 16:02

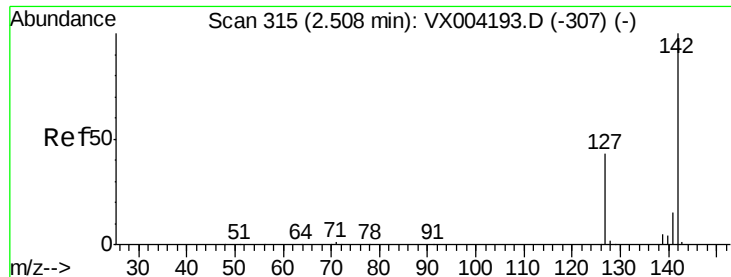
Tgt Ion: 64 Resp: 260

Ion Ratio Lower Upper

64 100

66 54.3 24.6 36.8#

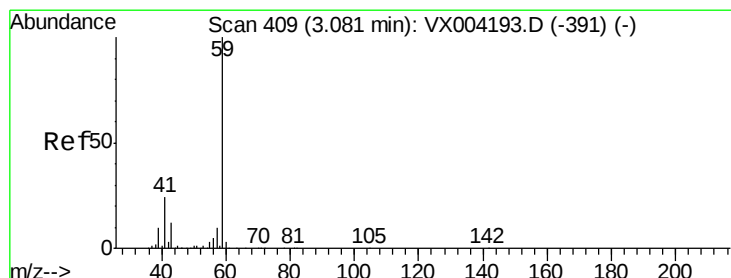
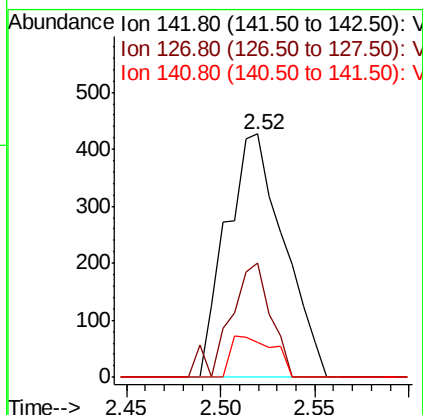
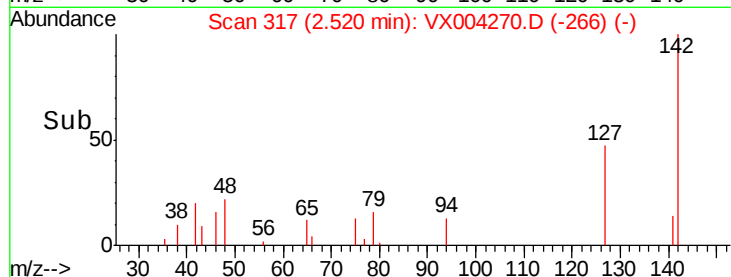
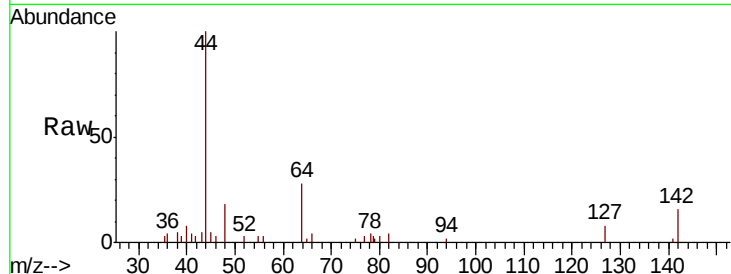




#10
Methyl Iodide
Concen: 4.501 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004270.D
Acq: 28 Aug 2018 16:02

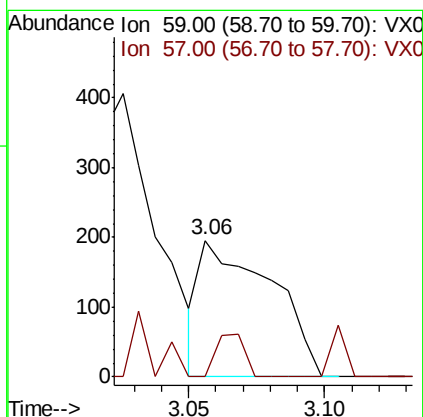
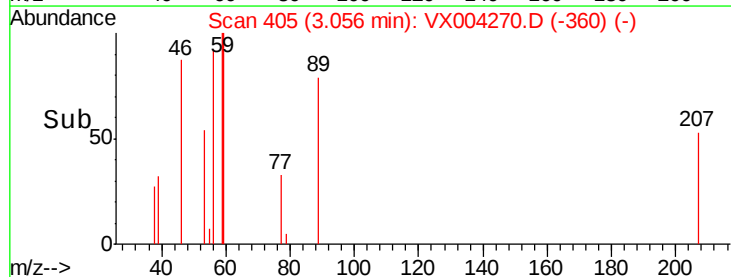
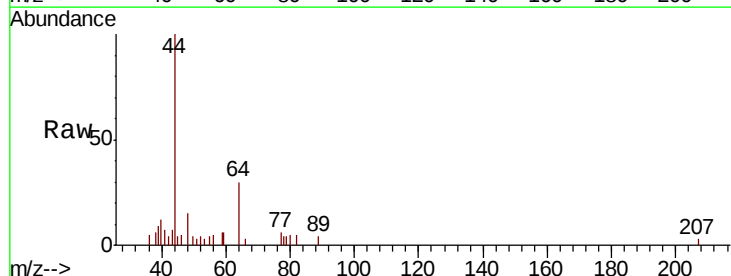
Instrument :
MSVOA_X
ClientSampleId :
VX0828MBL01

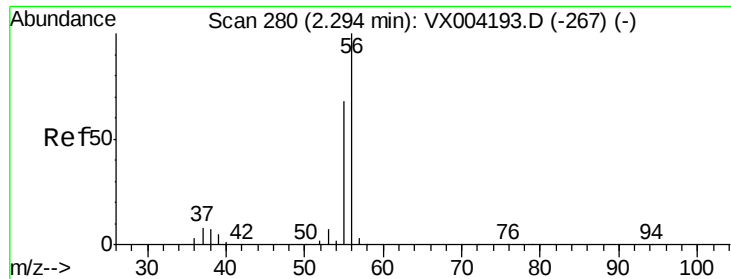
Tgt Ion: 142 Resp: 905
Ion Ratio Lower Upper
142 100
127 33.3 33.8 50.6#
141 12.6 11.4 17.0



#11
Tert butyl alcohol
Concen: 0.470 ug/l
RT: 3.06 min Scan# 405
Delta R.T. -0.02 min
Lab File: VX004270.D
Acq: 28 Aug 2018 16:02

Tgt Ion: 59 Resp: 360
Ion Ratio Lower Upper
59 100
57 12.2 8.2 12.4





#13

Acrolein

Concen: 0.606 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampled :

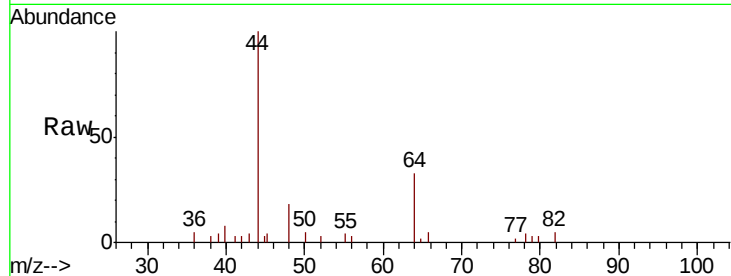
VX0828MBL01

Tgt Ion: 56 Resp: 112

Ion Ratio Lower Upper

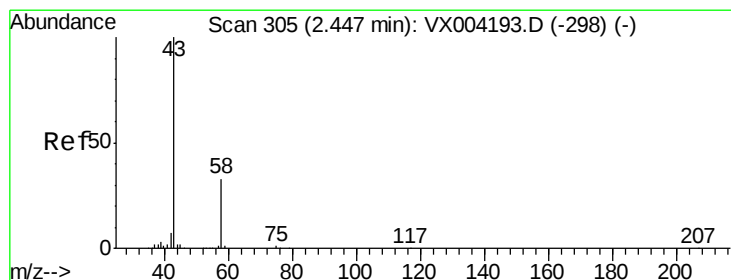
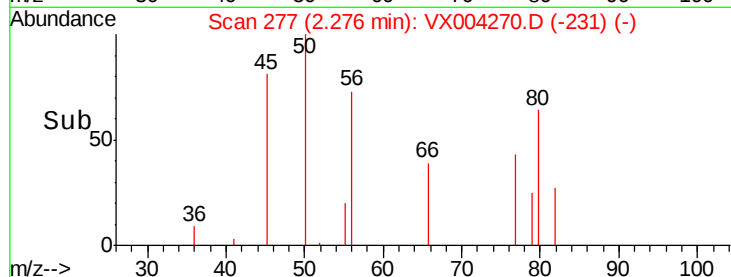
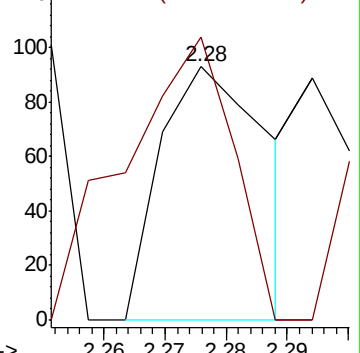
56 100

55 114.3 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004270.D

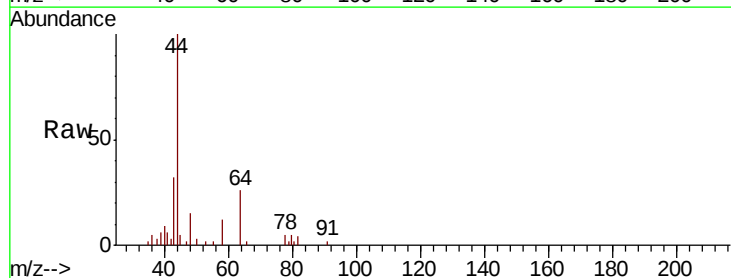
Acq: 28 Aug 2018 16:02

Tgt Ion: 43 Resp: 1366

Ion Ratio Lower Upper

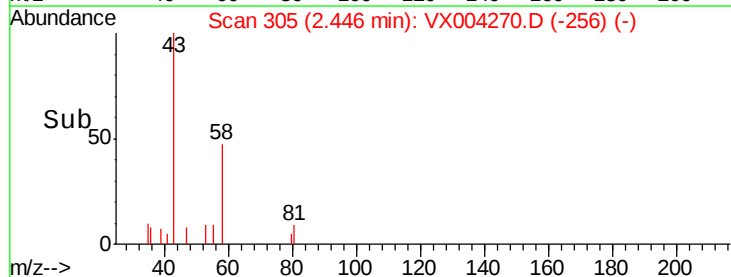
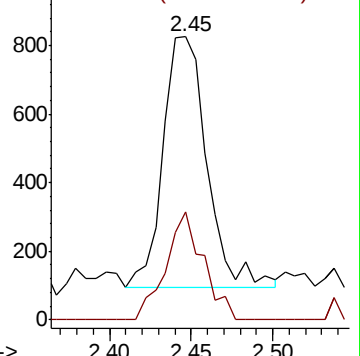
43 100

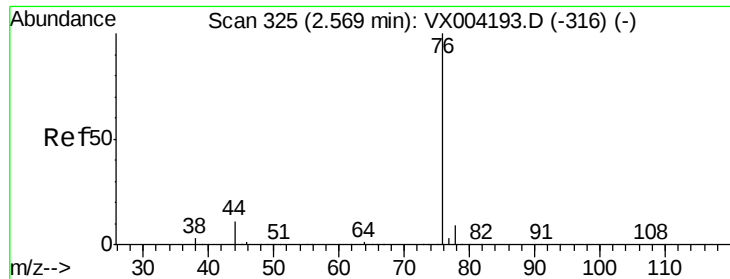
58 43.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.874 ug/l

RT: 2.56 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

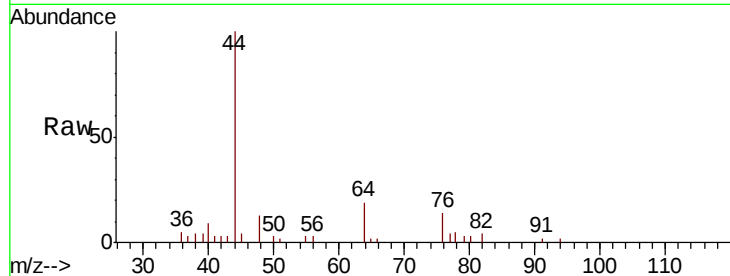
VX0828MBL01

Tgt Ion: 76 Resp: 628

Ion Ratio Lower Upper

76 100

78 12.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

400

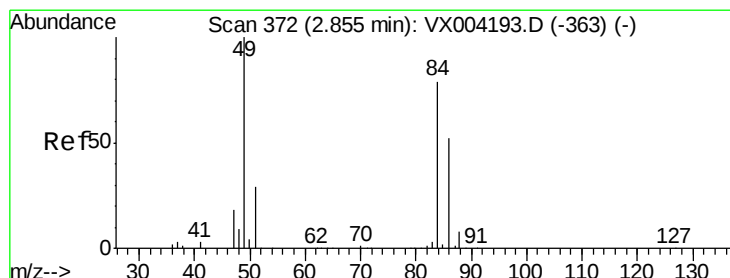
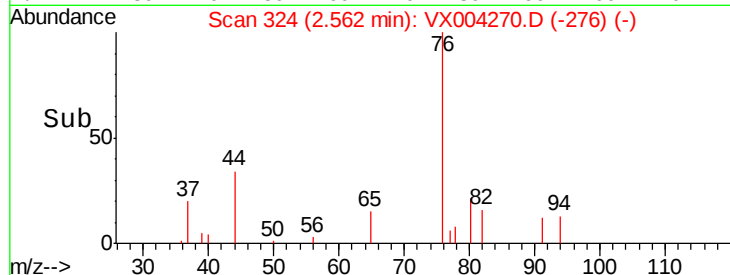
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 1.194 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Tgt Ion: 84 Resp: 4130

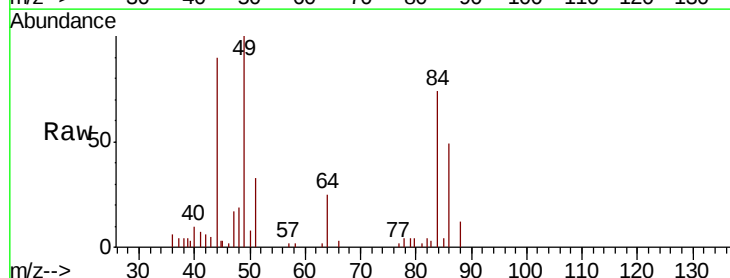
Ion Ratio Lower Upper

84 100

49 135.2 101.2 151.8

51 45.0 29.5 44.3#

86 66.5 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

4000

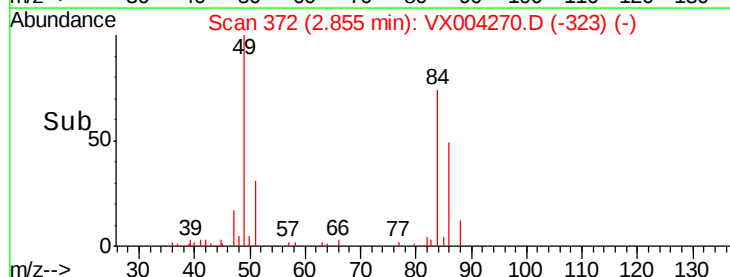
3000

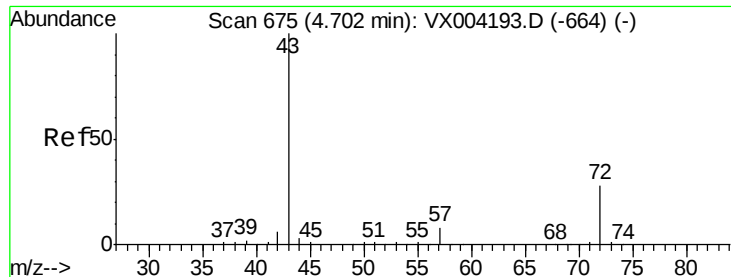
2000

1000

0

Time-->





#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

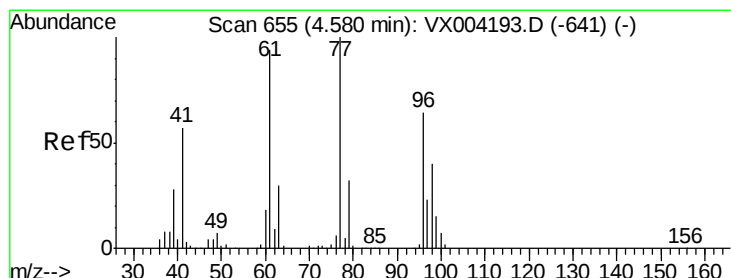
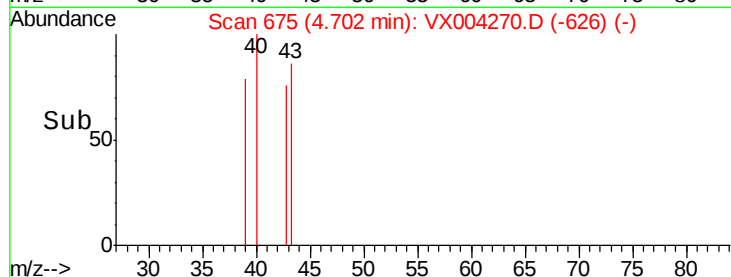
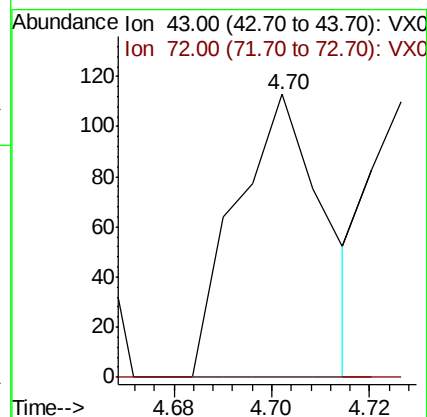
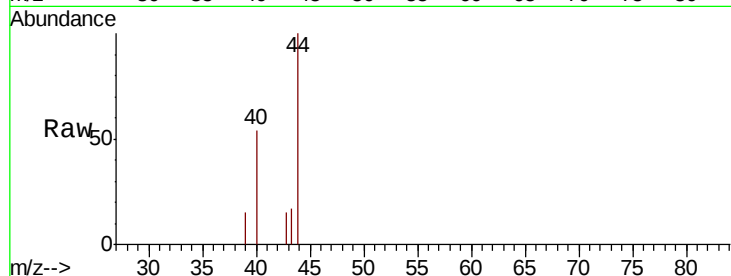
VX0828MBL01

Tgt Ion: 43 Resp: 139

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#26

2,2-Dichloropropane

Concen: 0.229 ug/l

RT: 4.78 min Scan# 688

Delta R.T. 0.20 min

Lab File: VX004270.D

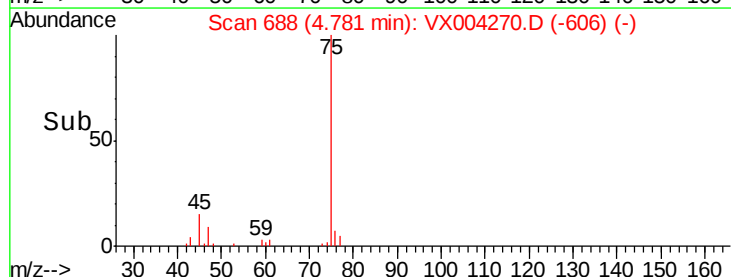
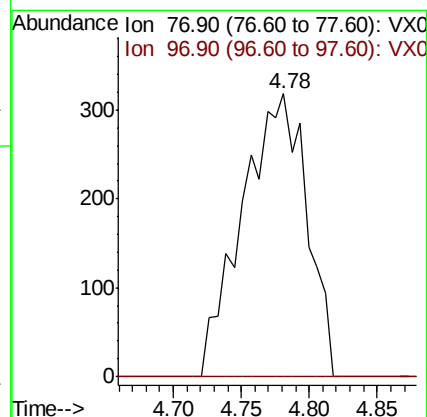
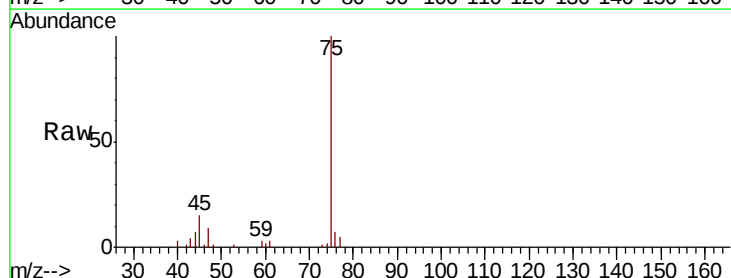
Acq: 28 Aug 2018 16:02

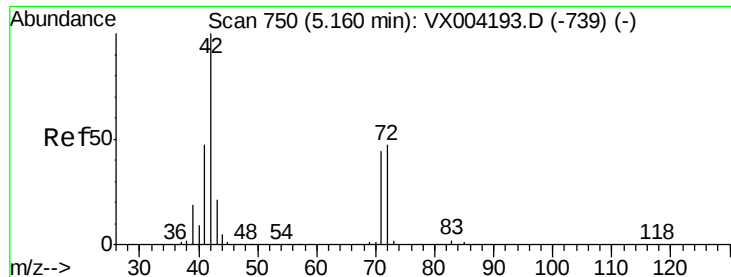
Tgt Ion: 77 Resp: 1051

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 0.516 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

VX0828MBL01

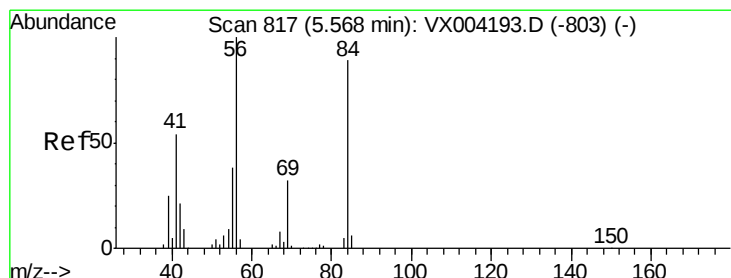
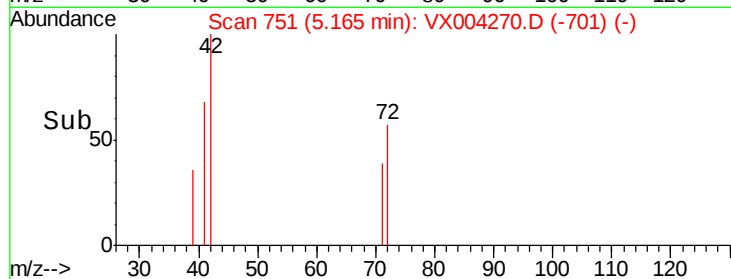
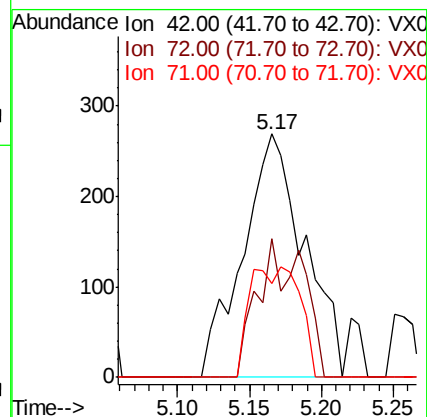
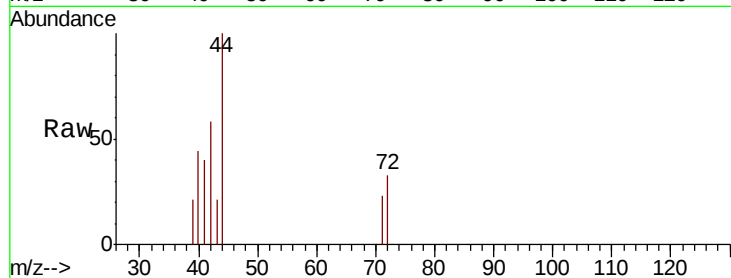
Tgt Ion: 42 Resp: 796

Ion Ratio Lower Upper

42 100

72 22.4 37.4 56.0#

71 18.7 34.5 51.7#



#31

Cyclohexane

Concen: 0.888 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

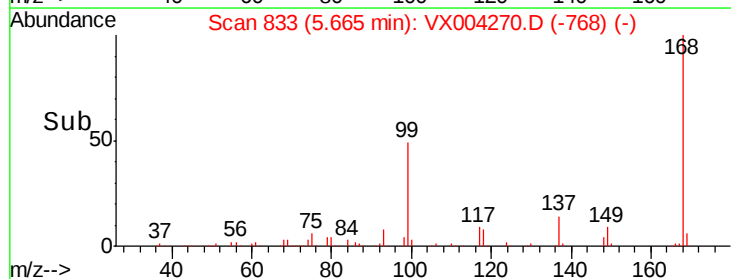
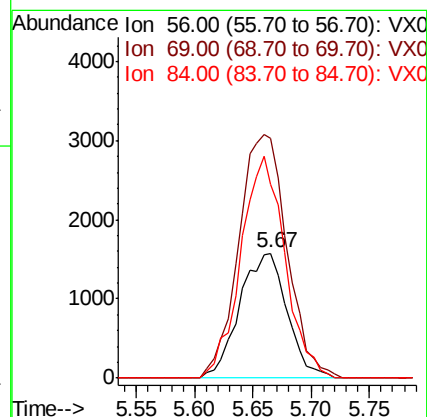
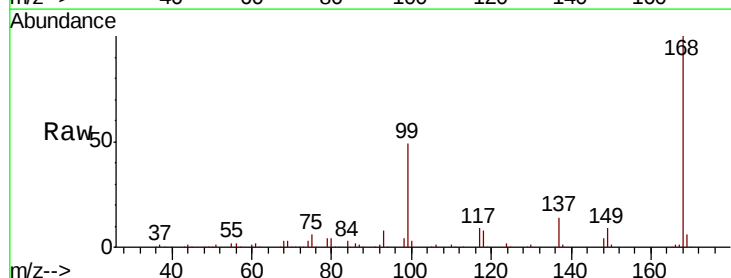
Tgt Ion: 56 Resp: 4474

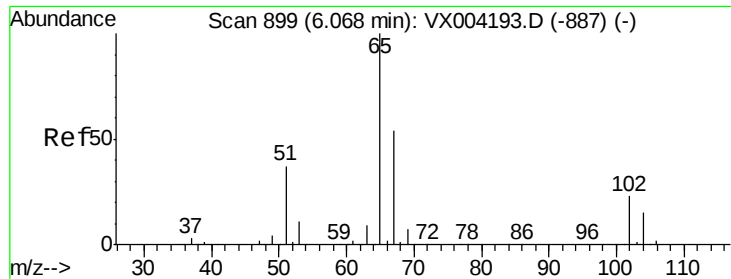
Ion Ratio Lower Upper

56 100

69 191.9 25.4 38.2#

84 154.9 71.4 107.2#

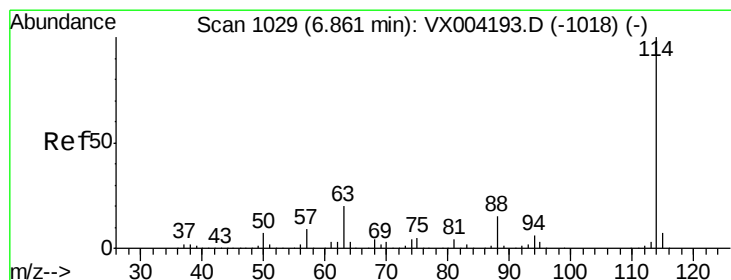
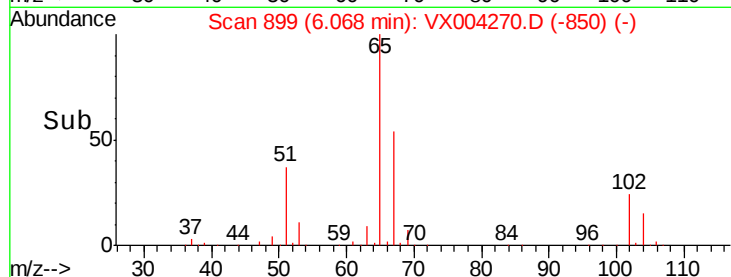
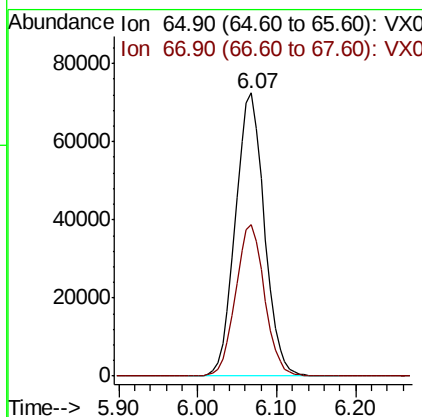
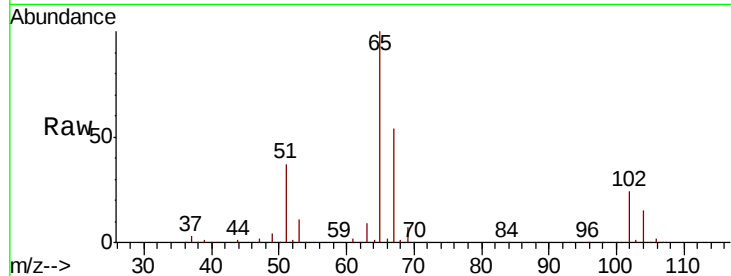




#33
 1,2-Dichloroethane-d4
 Concen: 51.623 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004270.D
 Acq: 28 Aug 2018 16:02

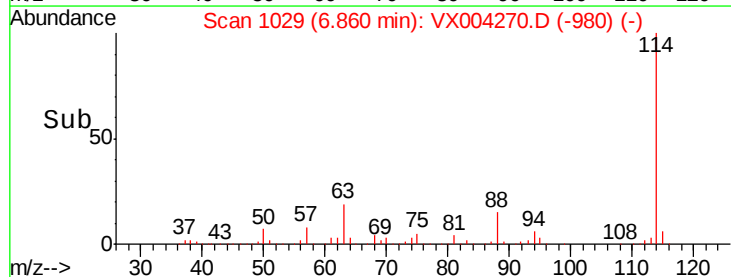
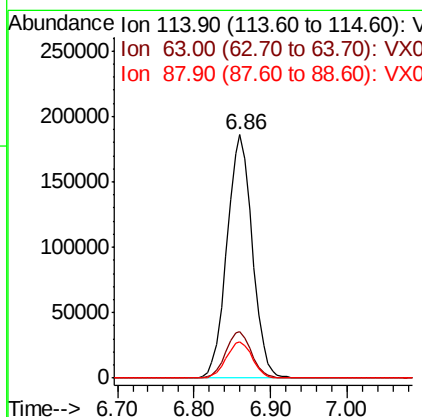
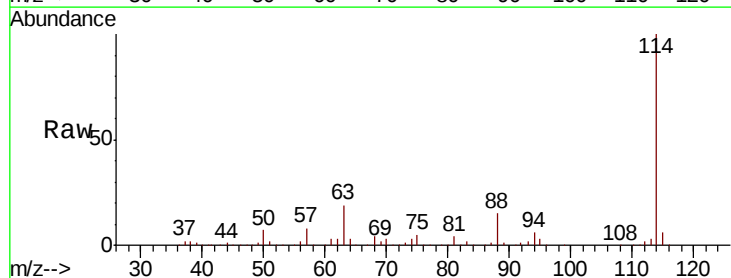
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0828MBL01

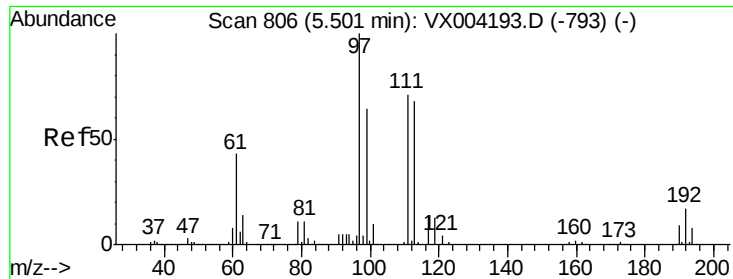
Tgt Ion: 65 Resp: 185513
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004270.D
 Acq: 28 Aug 2018 16:02

Tgt Ion: 114 Resp: 425430
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.1 0.0 30.4

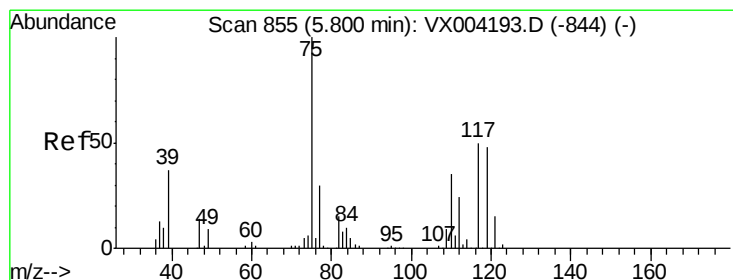
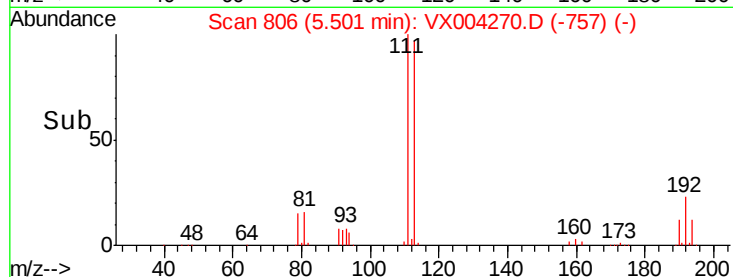
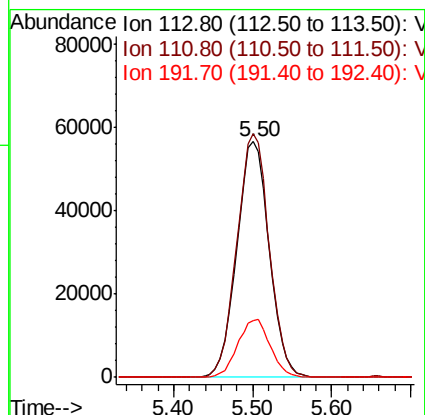
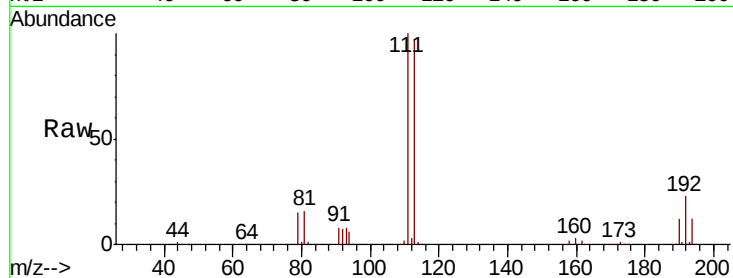




#35
 Dibromofluoromethane
 Concen: 51.163 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004270.D
 Acq: 28 Aug 2018 16:02

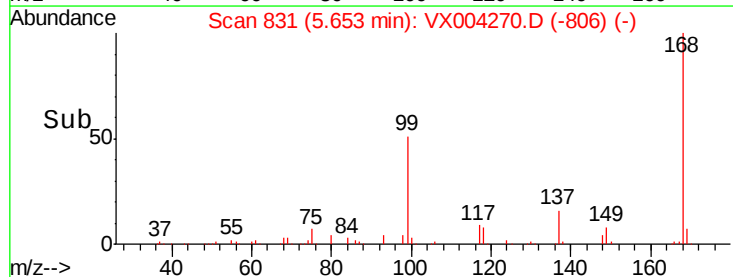
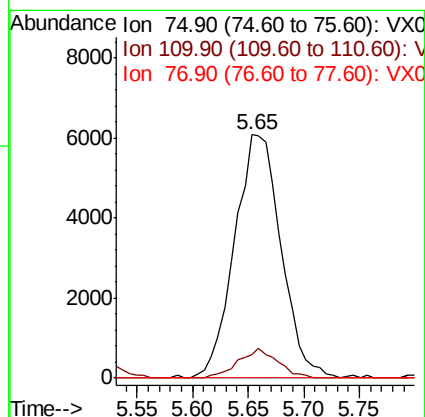
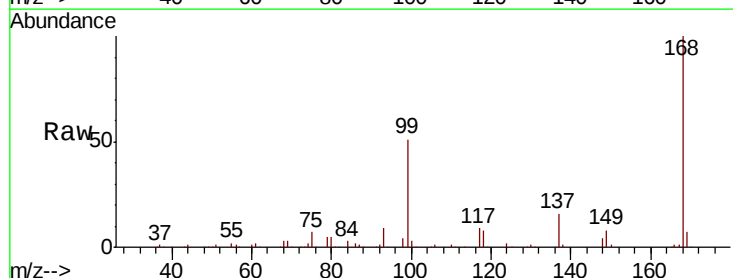
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0828MBL01

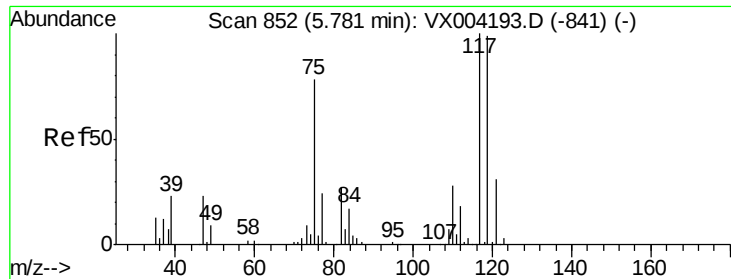
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	24.5	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.688 ug/l
 RT: 5.65 min Scan# 831
 Delta R.T. -0.15 min
 Lab File: VX004270.D
 Acq: 28 Aug 2018 16:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.0	54.0#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.337 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

VX0828MBL01

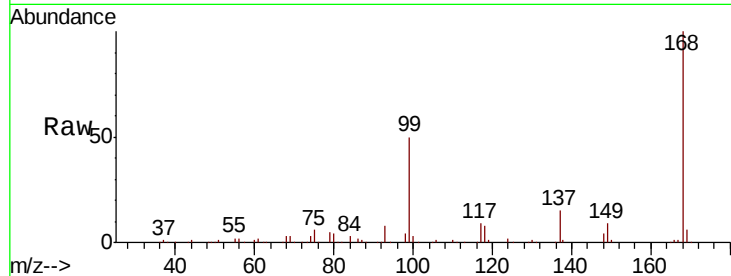
Tgt Ion:117 Resp: 24012

Ion Ratio Lower Upper

117 100

119 6.2 78.8 118.2#

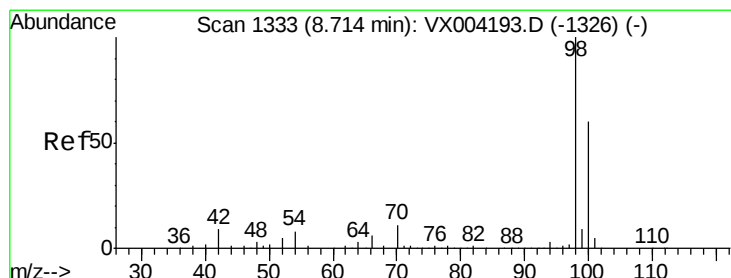
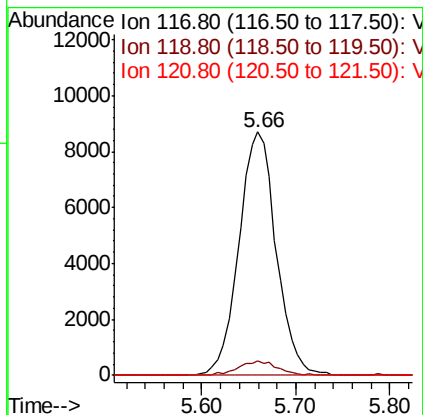
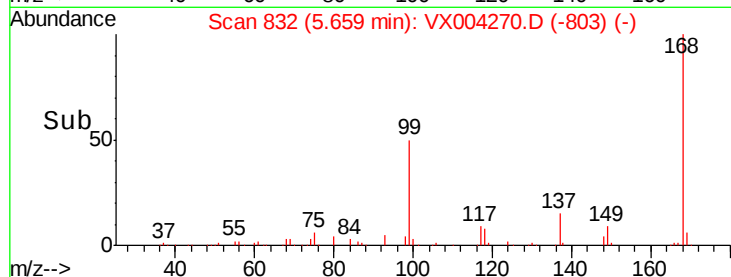
121 0.0 24.9 37.3#



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: 50.115 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004270.D

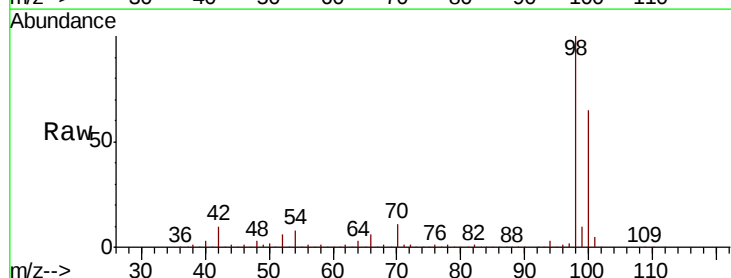
Acq: 28 Aug 2018 16:02

Tgt Ion: 98 Resp: 598698

Ion Ratio Lower Upper

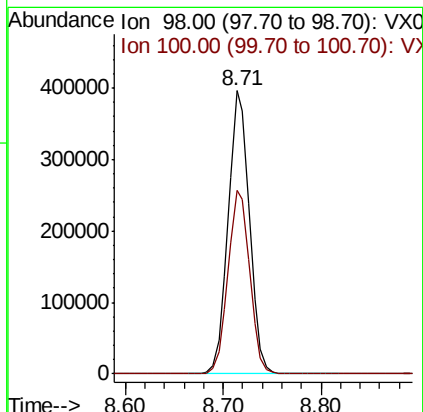
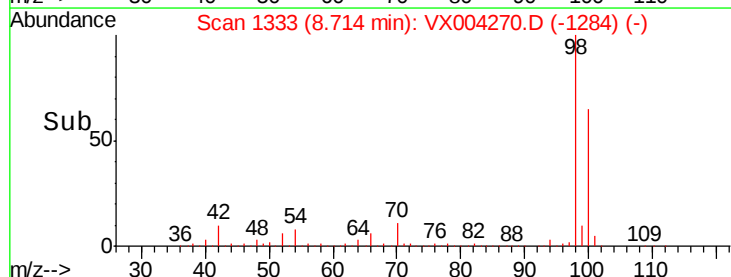
98 100

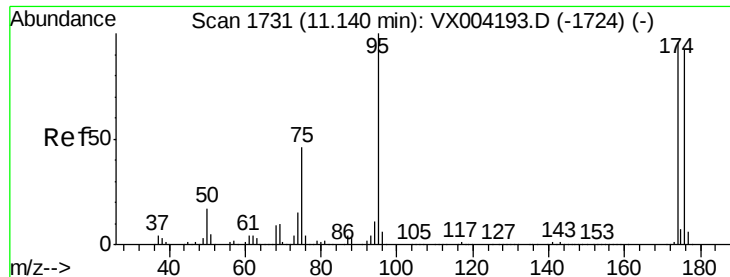
100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.853 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

VX0828MBL01

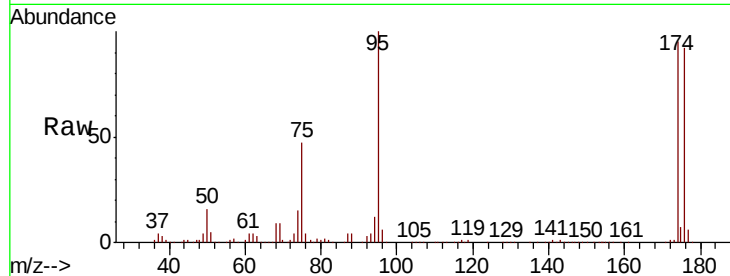
Tgt Ion: 95 Resp: 213306

Ion Ratio Lower Upper

95 100

174 92.9 0.0 185.2

176 89.7 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004193.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX004193.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX004193.D (-1724) (-)

11.14

200000

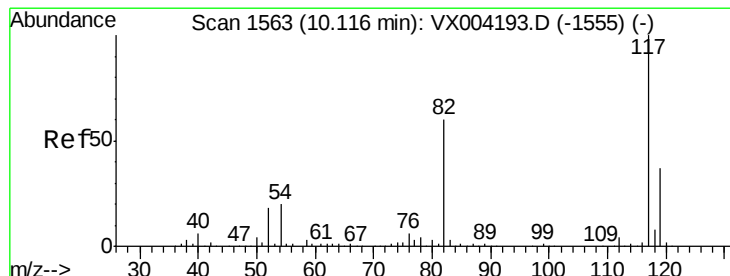
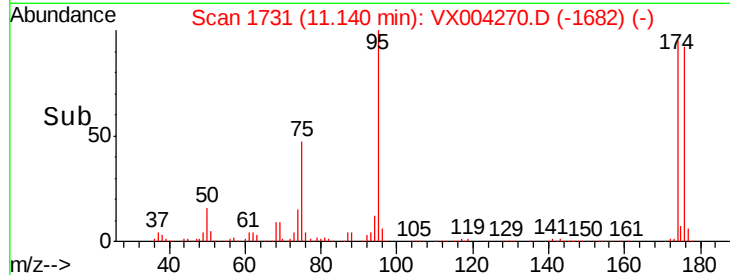
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

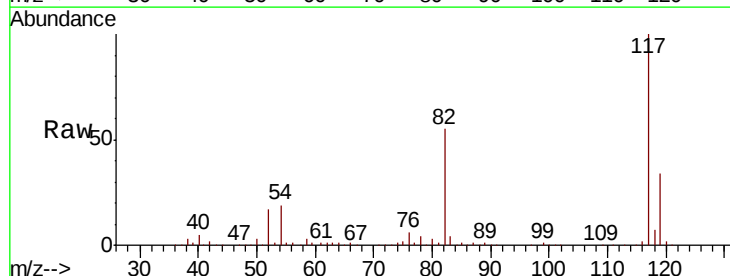
Tgt Ion: 117 Resp: 402176

Ion Ratio Lower Upper

117 100

82 54.5 47.8 71.6

119 33.8 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): VX004193.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX004193.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX004193.D (-1555) (-)

10.12

400000

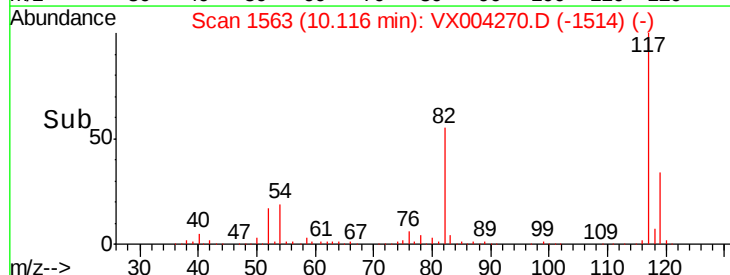
300000

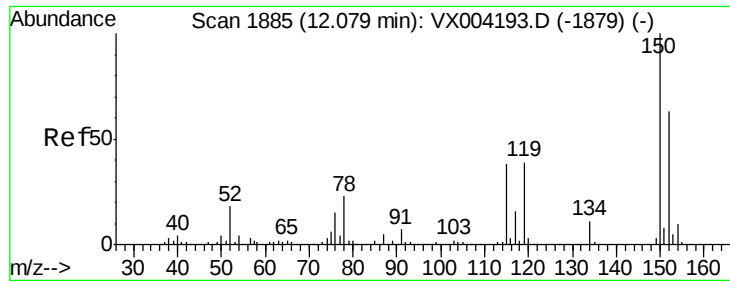
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

VX0828MBL01

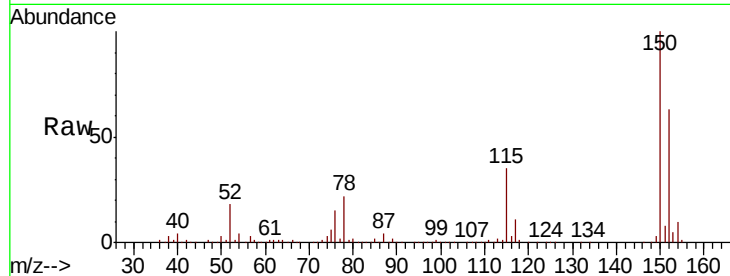
Tgt Ion: 152 Resp: 225036

Ion Ratio Lower Upper

152 100

115 55.2 39.0 117.0

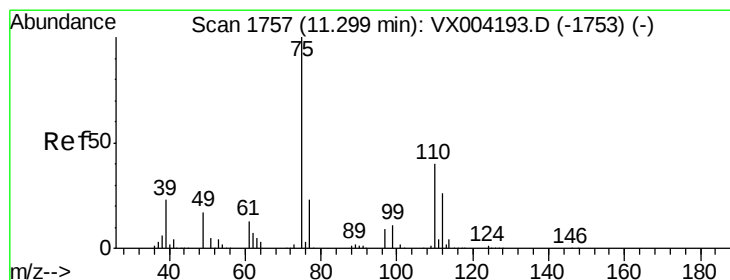
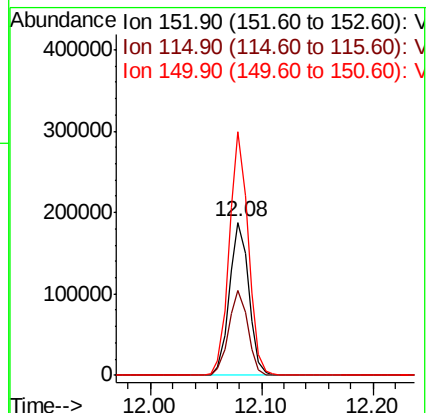
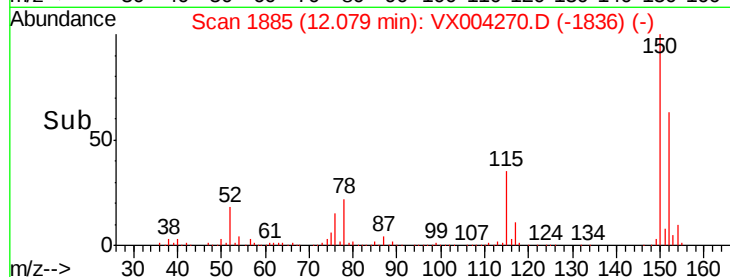
150 156.0 0.0 351.0



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: 22.336 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004270.D

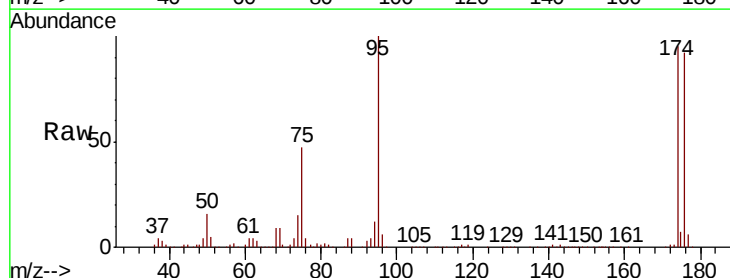
Acq: 28 Aug 2018 16:02

Tgt Ion: 75 Resp: 102230

Ion Ratio Lower Upper

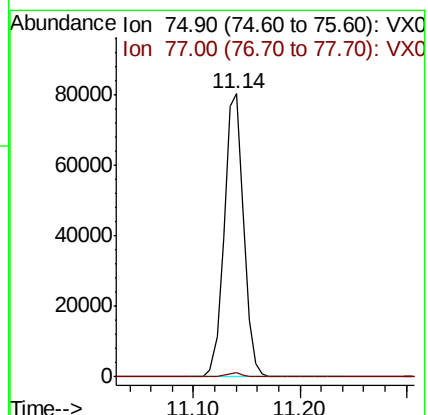
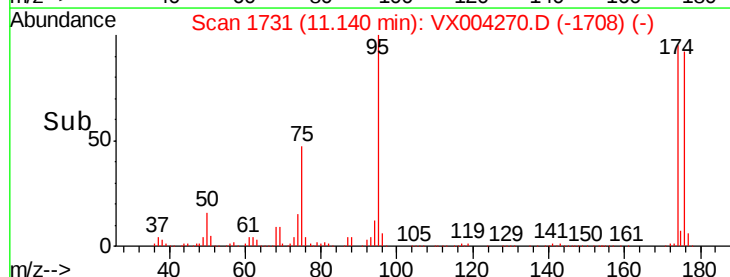
75 100

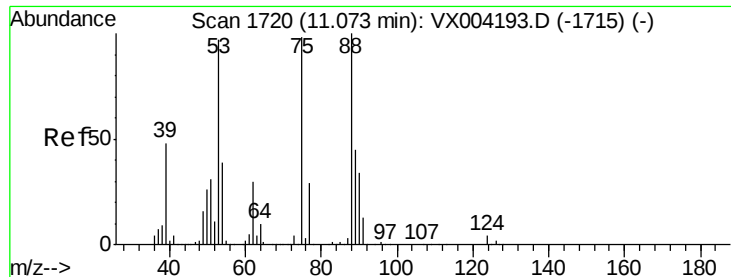
77 1.4 20.2 60.6#



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: 72.472 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004270.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

VX0828MBL01

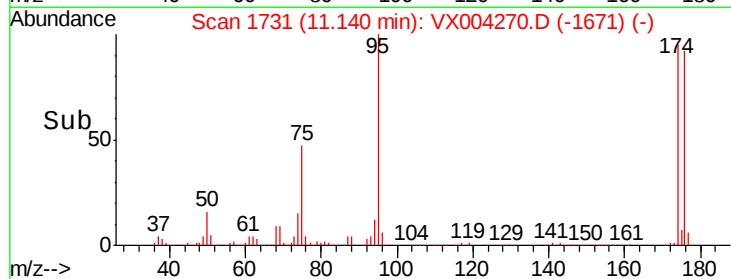
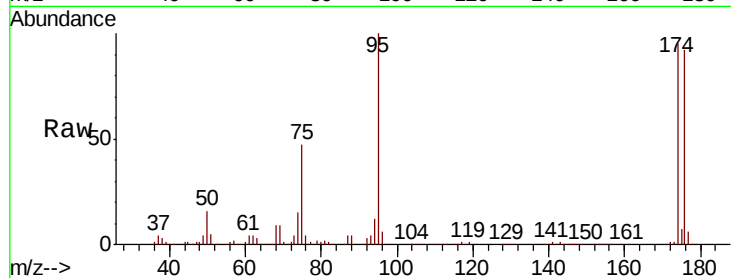
Tgt Ion: 75 Resp: 102230

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

