

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011455.D
 Acq On : 12 Aug 2019 01:35
 Operator : JC/SP
 Sample : K4294-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RBR-200052

Quant Time: Aug 12 07:57:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	204115	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	306621	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	282957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	125561	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	108800	52.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.86%	
35) Dibromofluoromethane	5.49	113	93579	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
50) Toluene-d8	8.71	98	366178	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.13	95	120010	44.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.96%	

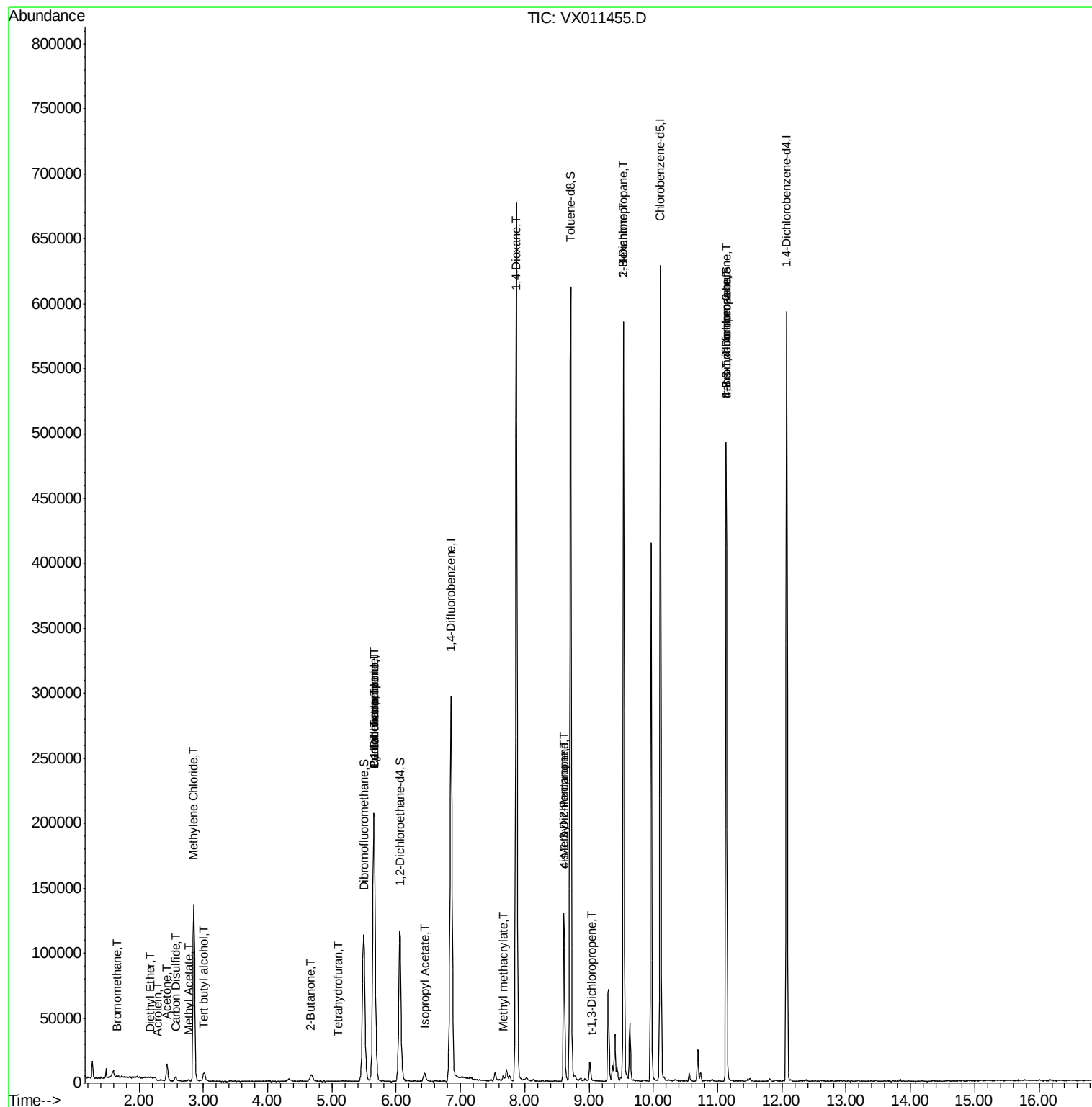
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	459	0.330	ug/l #	80
6) Chloroethane	1.75	64	729	Below Cal	#	68
8) Diethyl Ether	2.18	74	492	0.398	ug/l	76
11) Tert butyl alcohol	3.01	59	4193	10.251	ug/l #	89
13) Acrolein	2.28	56	190	0.324	ug/l #	1
16) Acetone	2.43	43	13355	13.650	ug/l	98
17) Carbon Disulfide	2.57	76	4131	0.948	ug/l	97
18) Methyl Acetate	2.77	43	1583	0.708	ug/l	99
20) Methylene Chloride	2.85	84	65298	30.474	ug/l	97
25) 2-Butanone	4.67	43	4613	3.314	ug/l	92
29) Tetrahydrofuran	5.11	42	201	0.236	ug/l #	60
31) Cyclohexane	5.65	56	4252	1.606	ug/l #	25
36) 1,1-Dichloropropene	5.65	75	14072	5.256	ug/l #	50
38) Carbon Tetrachloride	5.65	117	19470	7.229	ug/l #	15
43) Isopropyl Acetate	6.44	43	9118	2.124	ug/l	97
48) Methyl methacrylate	7.67	41	5390	2.668	ug/l #	10
49) 1,4-Dioxane	7.87	88	98	1.673	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	41550	14.996	ug/l #	47
53) t-1,3-Dichloropropene	9.05	75	90	2.867	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20428	6.839	ug/l #	66
57) 1,3-Dichloropropane	9.54	76	5458	1.589	ug/l #	43
59) 2-Hexanone	9.54	43	65481	30.512	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	61839	27.044	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	61839	70.203	ug/l #	10

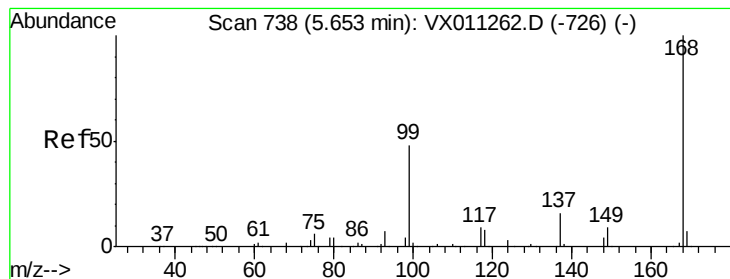
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
Data File : VX011455.D
Acq On : 12 Aug 2019 01:35
Operator : JC/SP
Sample : K4294-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_X
Client Sample ID :
RBR-200052

Quant Time: Aug 12 07:57:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration

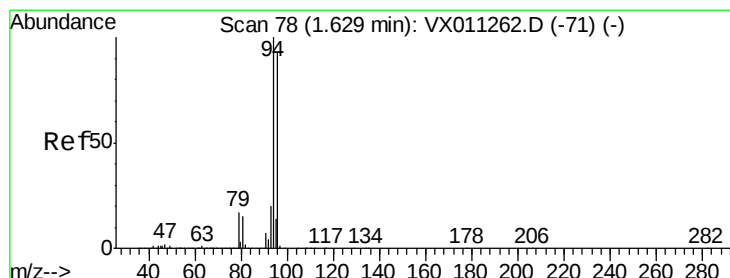
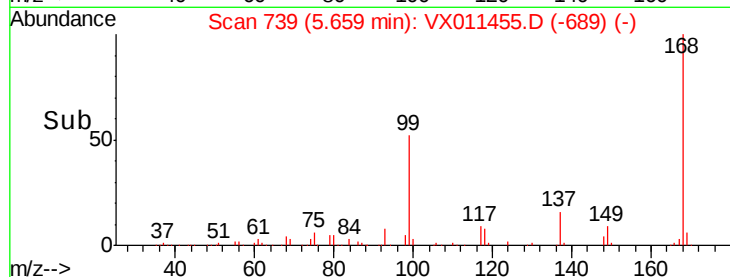
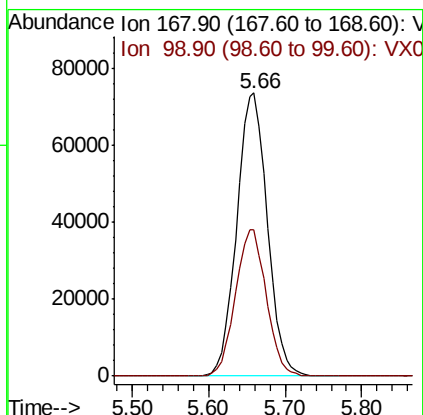
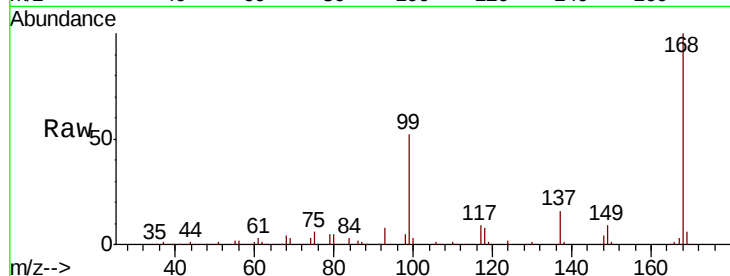




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.01 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

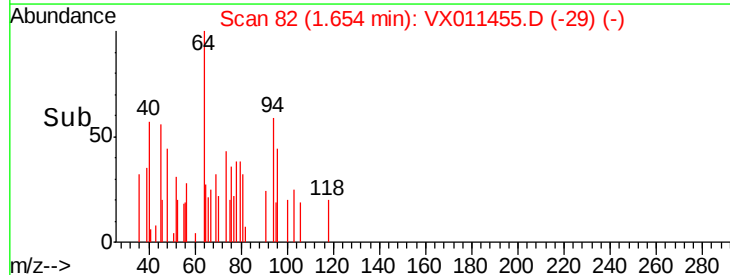
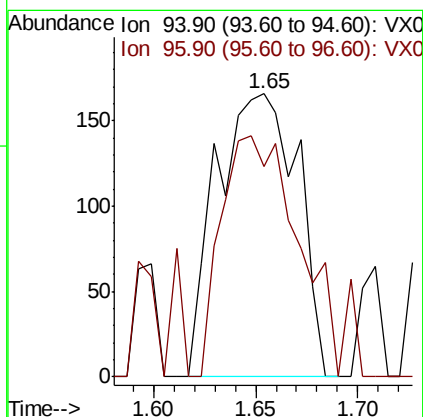
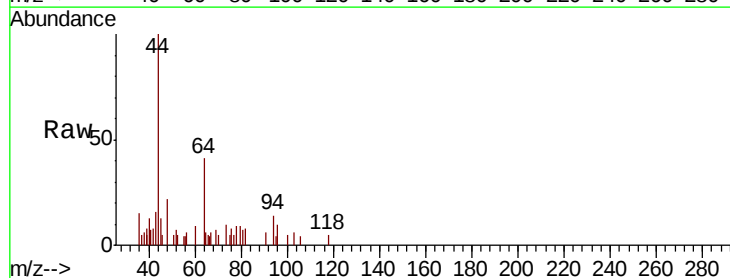
Instrument :
MSVOA_X
ClientSampleId :
RBR-200052

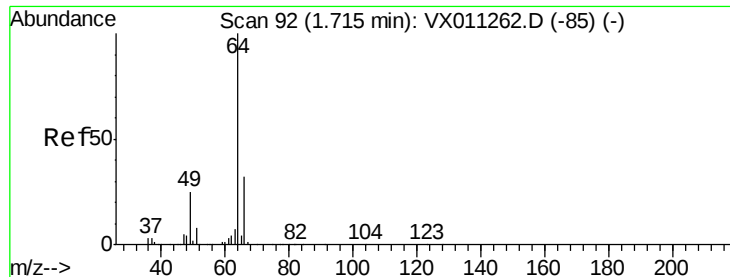
Tgt Ion: 168 Resp: 204115
Ion Ratio Lower Upper
168 100
99 51.6 38.5 57.7



#5
Bromomethane
Concen: 0.330 ug/l
RT: 1.65 min Scan# 82
Delta R.T. 0.02 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Tgt Ion: 94 Resp: 459
Ion Ratio Lower Upper
94 100
96 74.1 74.6 112.0#





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampleId :

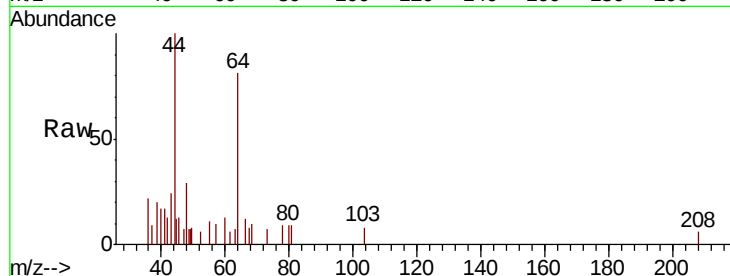
RBR-200052

Tgt Ion: 64 Resp: 729

Ion Ratio Lower Upper

64 100

66 13.8 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

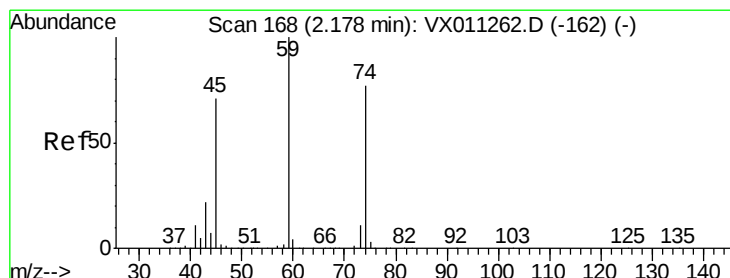
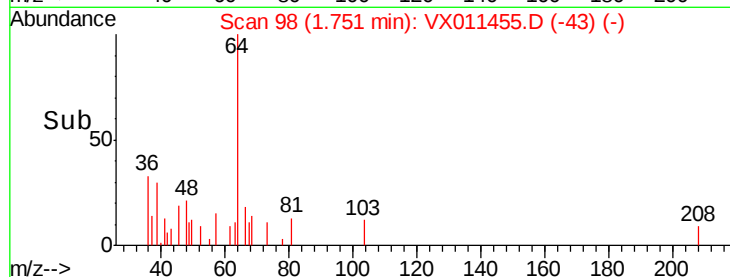
600

400

200

0

Time-->



#8

Diethyl Ether

Concen: 0.398 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011455.D

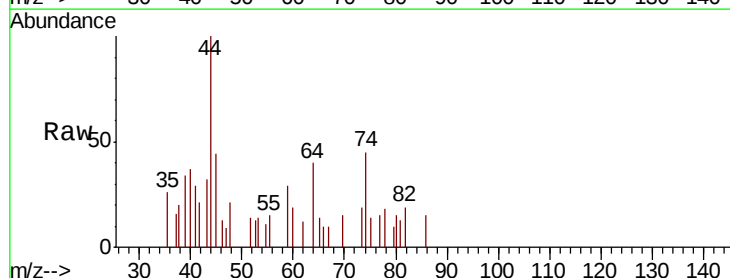
Acq: 12 Aug 2019 01:35

Tgt Ion: 74 Resp: 492

Ion Ratio Lower Upper

74 100

45 69.1 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

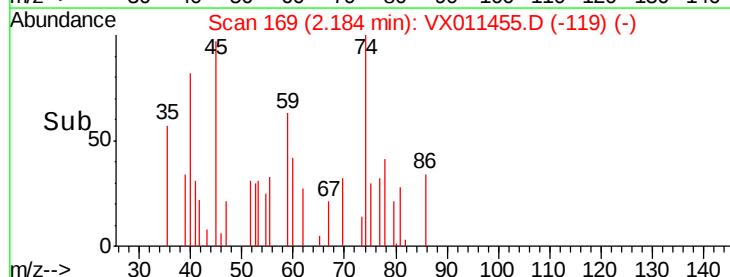
300

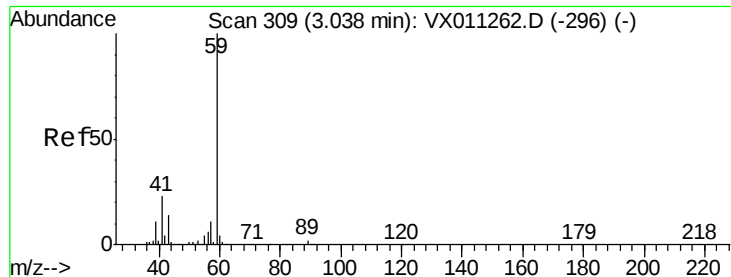
200

100

0

Time-->

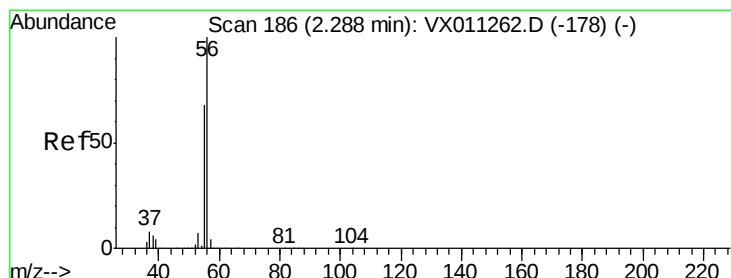
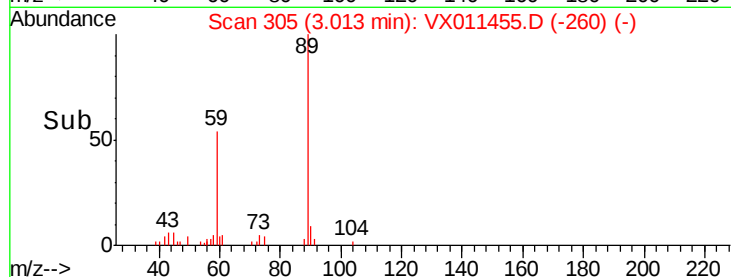
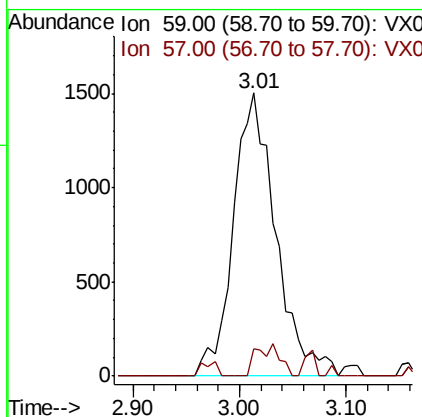
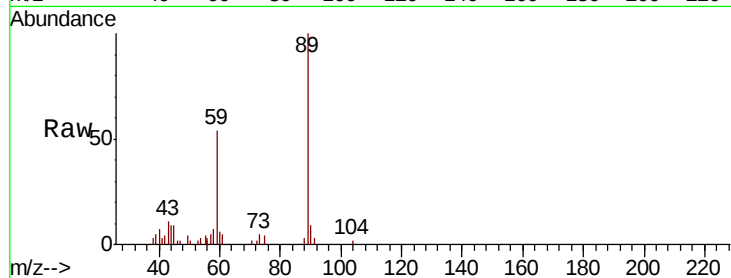




#11
Tert butyl alcohol
Concen: 10.251 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

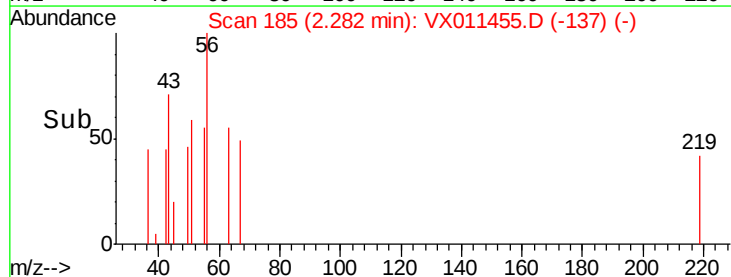
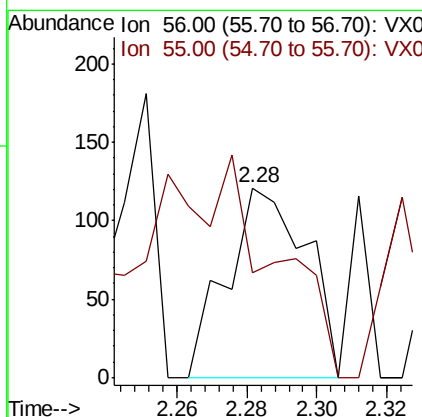
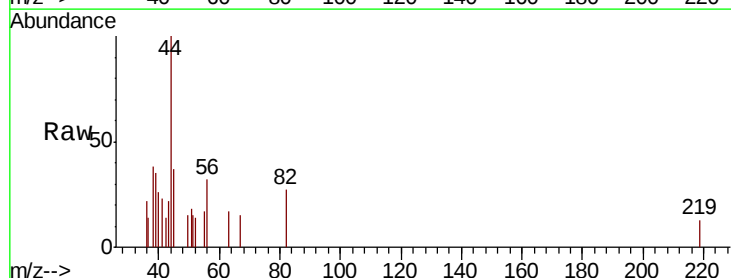
Instrument :
MSVOA_X
ClientSampled :
RBR-200052

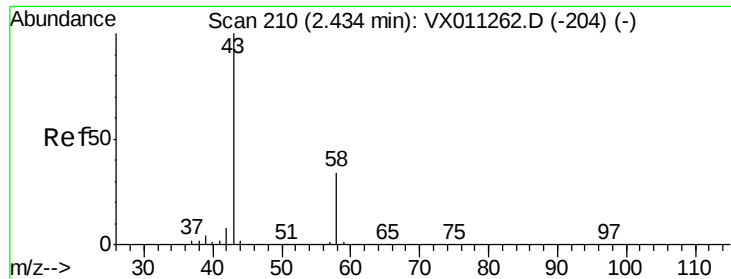
Tgt Ion: 59 Resp: 4193
Ion Ratio Lower Upper
59 100
57 6.3 8.3 12.5#



#13
Acrolein
Concen: 0.324 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Tgt Ion: 56 Resp: 190
Ion Ratio Lower Upper
56 100
55 160.0 56.0 84.0#





#16

Acetone

Concen: 13.650 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampleId :

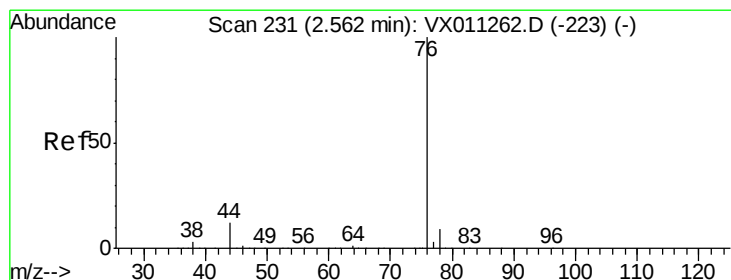
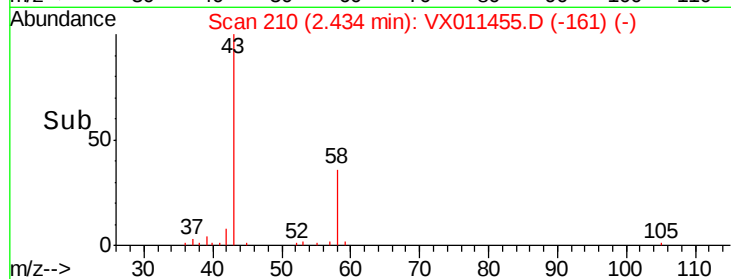
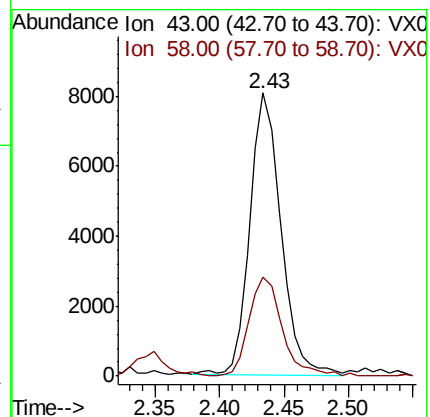
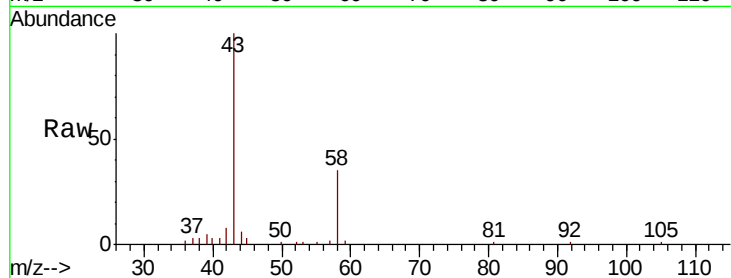
RBR-200052

Tgt Ion: 43 Resp: 13355

Ion Ratio Lower Upper

43 100

58 35.3 27.4 41.0



#17

Carbon Disulfide

Concen: 0.948 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX011455.D

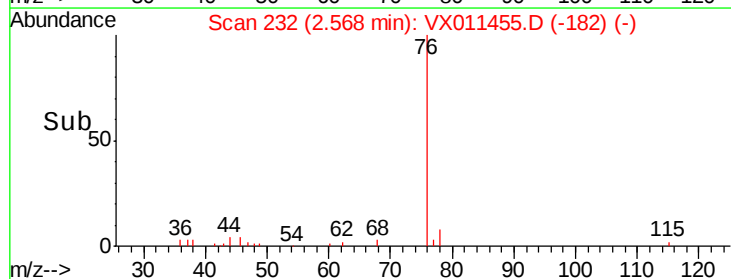
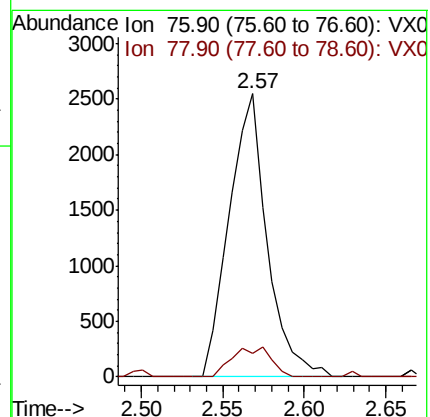
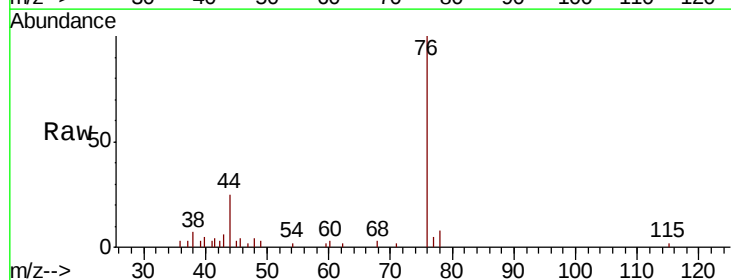
Acq: 12 Aug 2019 01:35

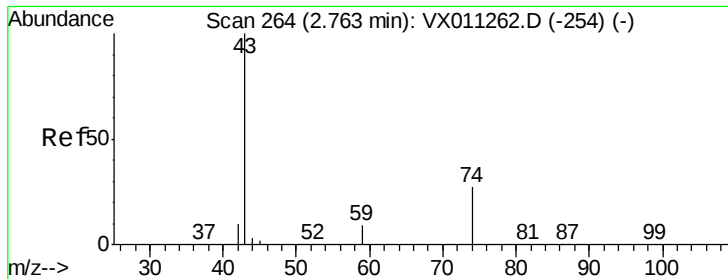
Tgt Ion: 76 Resp: 4131

Ion Ratio Lower Upper

76 100

78 8.2 7.4 11.0

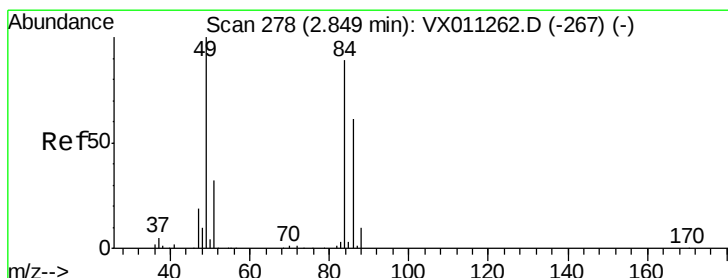
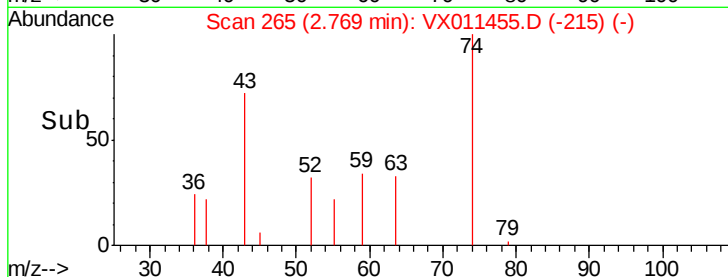
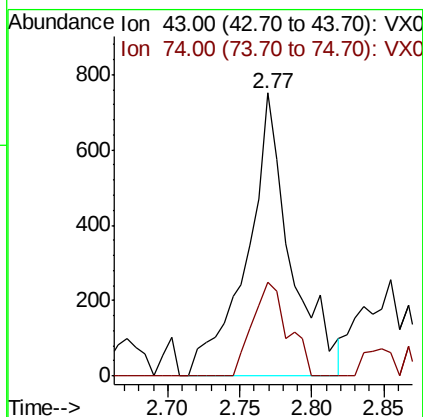
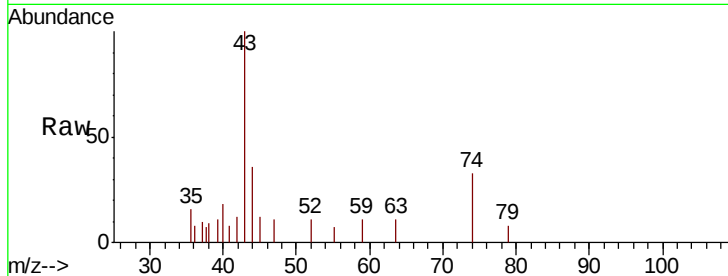




#18
Methyl Acetate
Concen: 0.708 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

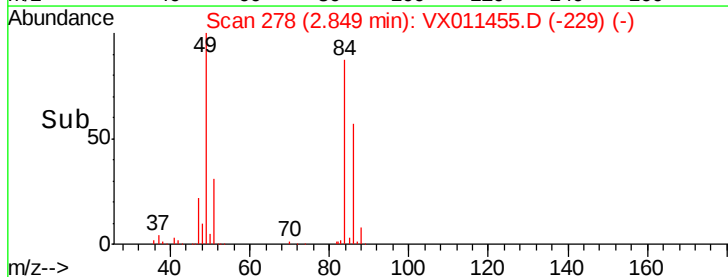
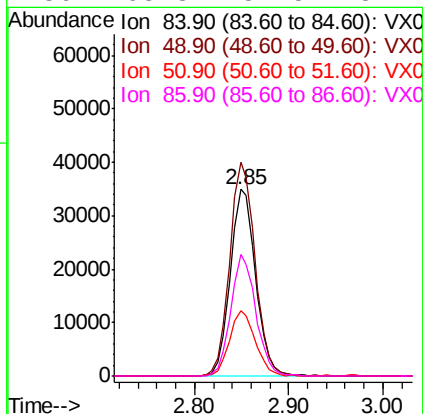
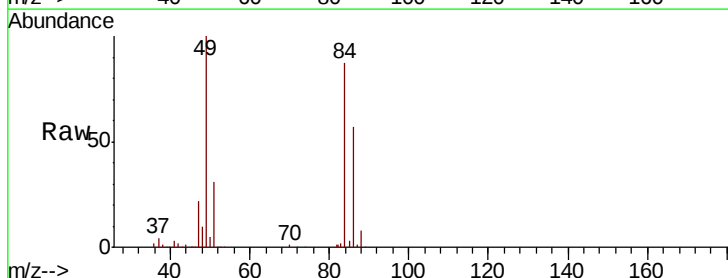
Instrument :
MSVOA_X
ClientSampleId :
RBR-200052

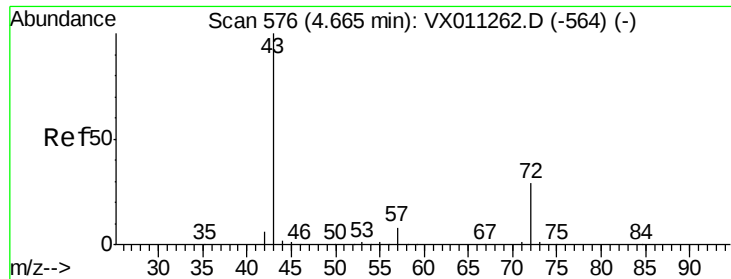
Tgt Ion: 43 Resp: 1583
Ion Ratio Lower Upper
43 100
74 26.9 21.0 31.6



#20
Methylene Chloride
Concen: 30.474 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Tgt Ion: 84 Resp: 65298
Ion Ratio Lower Upper
84 100
49 114.5 89.3 133.9
51 35.1 28.3 42.5
86 65.3 54.5 81.7





#25

2-Butanone

Concen: 3.314 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.01 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampleId :

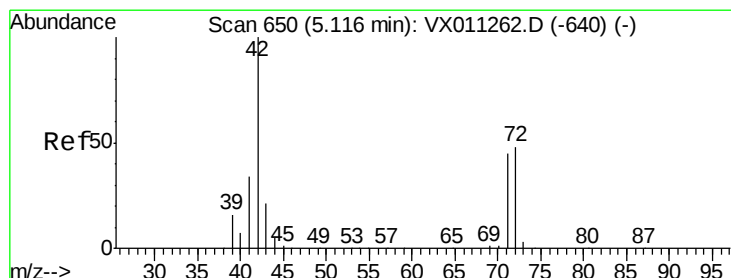
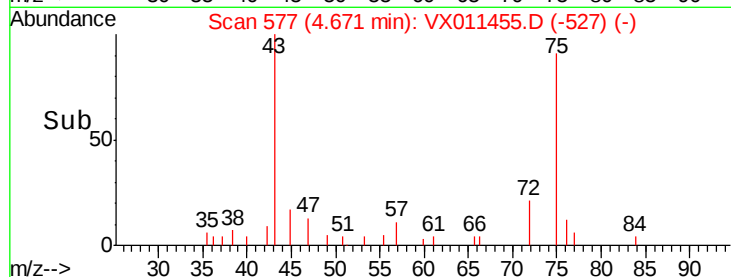
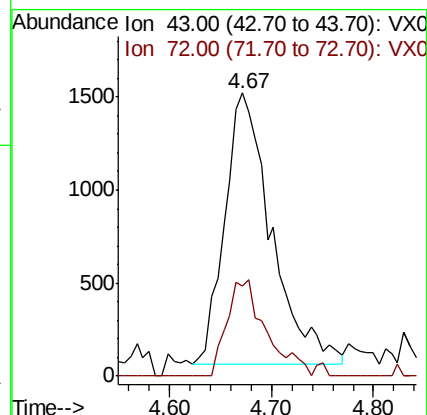
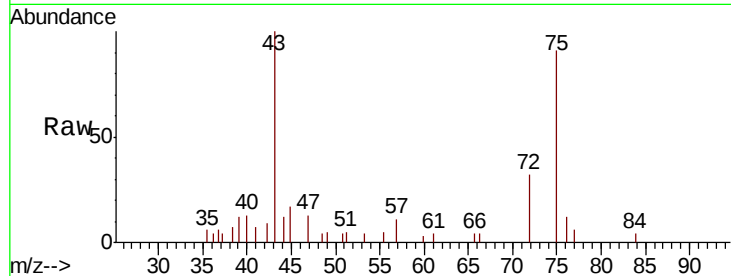
RBR-200052

Tgt Ion: 43 Resp: 4613

Ion Ratio Lower Upper

43 100

72 33.1 23.2 34.8



#29

Tetrahydrofuran

Concen: 0.236 ug/l

RT: 5.11 min Scan# 649

Delta R.T. -0.01 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

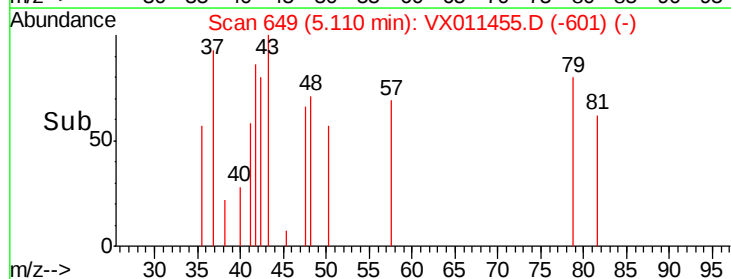
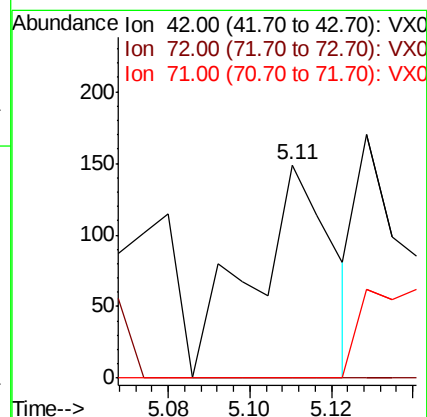
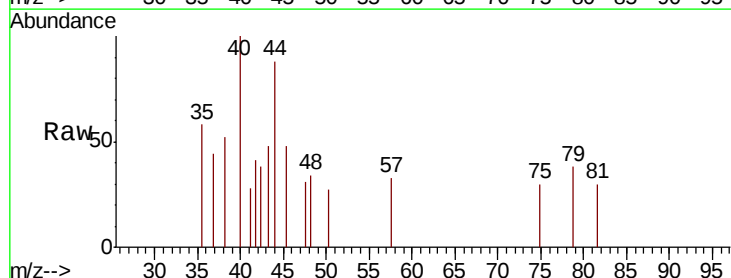
Tgt Ion: 42 Resp: 201

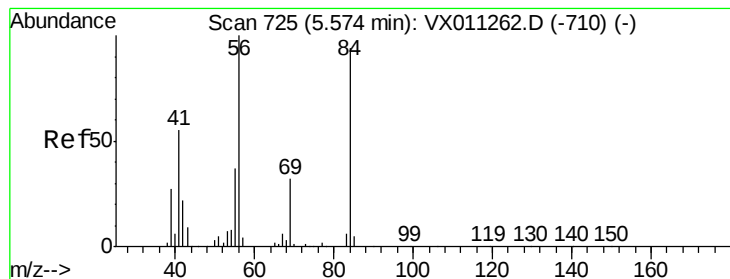
Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

71 42.8 36.9 55.3





#31

Cyclohexane

Concen: 1.606 ug/l

RT: 5.65 min Scan# 737

Delta R.T. 0.07 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampleId :

RBR-200052

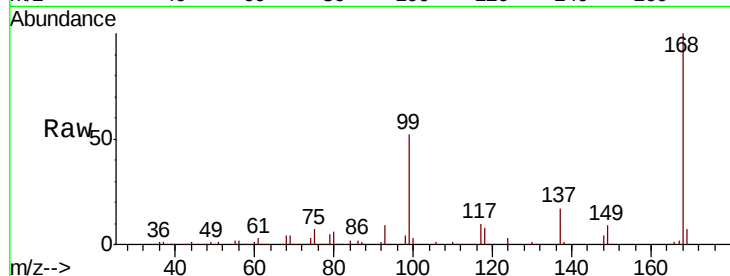
Tgt Ion: 56 Resp: 4252

Ion Ratio Lower Upper

56 100

69 167.2 25.5 38.3#

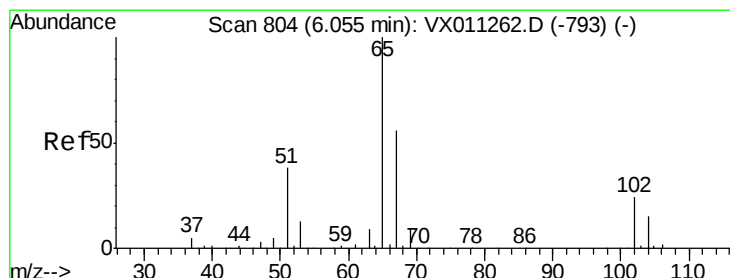
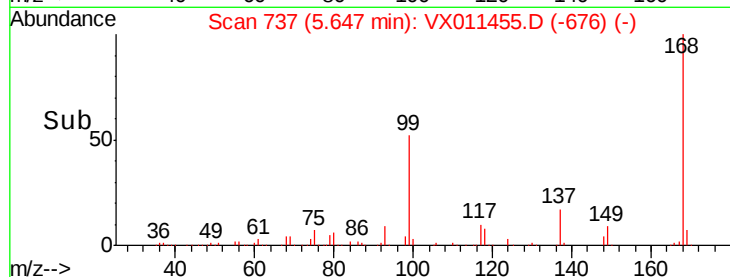
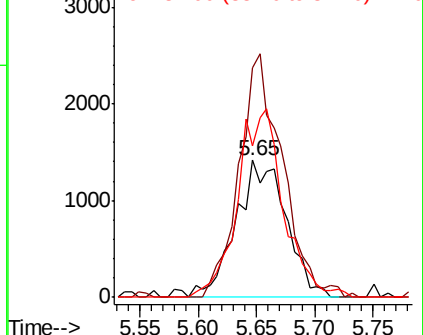
84 110.4 75.0 112.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.930 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011455.D

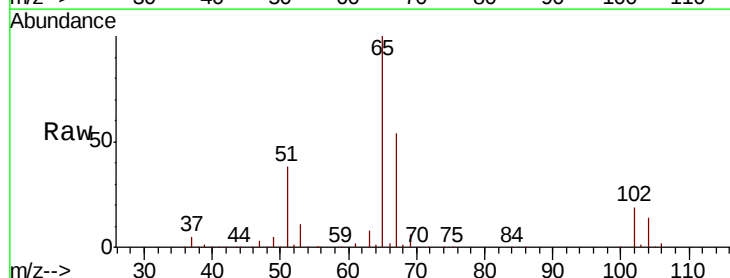
Acq: 12 Aug 2019 01:35

Tgt Ion: 65 Resp: 108800

Ion Ratio Lower Upper

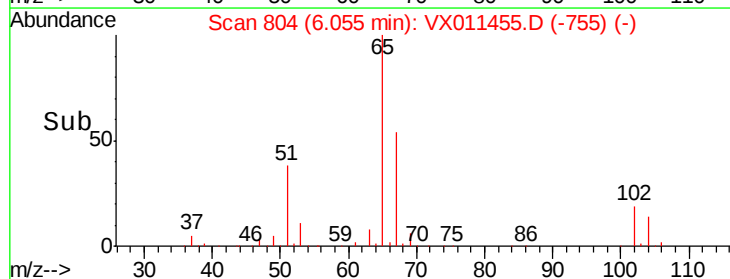
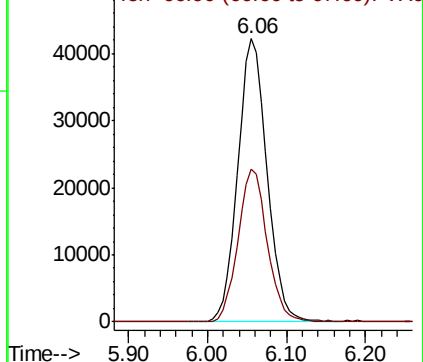
65 100

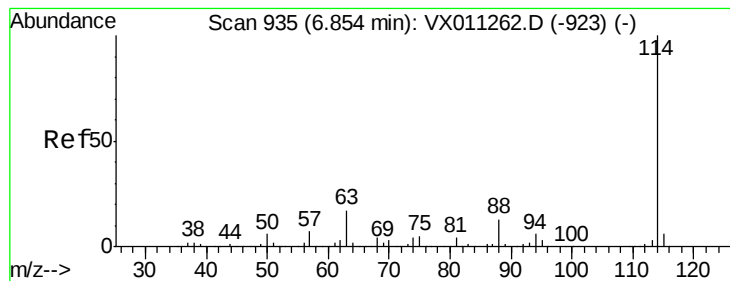
67 54.1 0.0 110.6



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: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampleId :

RBR-200052

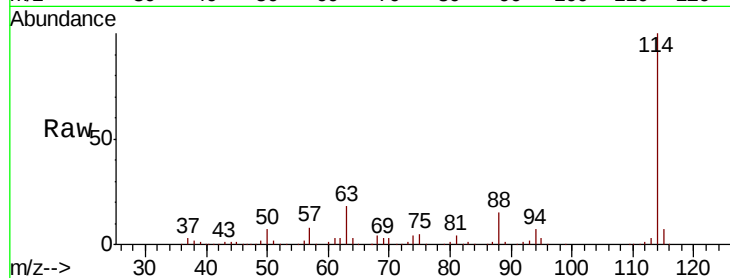
Tgt Ion:114 Resp: 306621

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.0

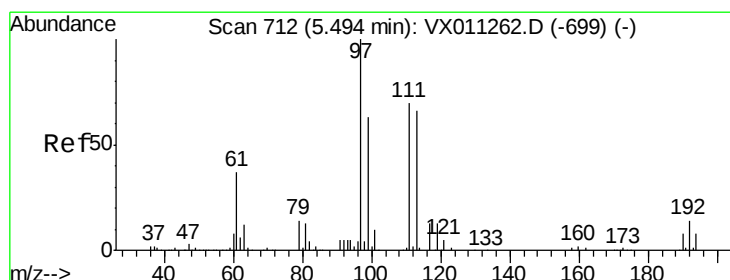
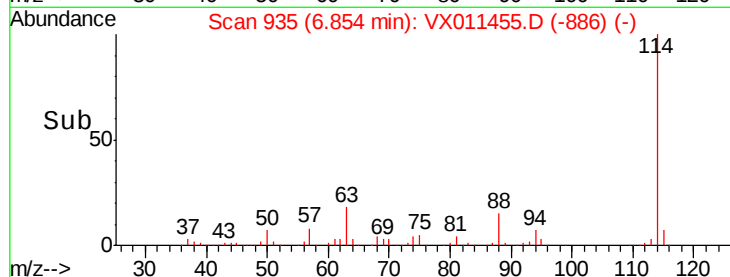
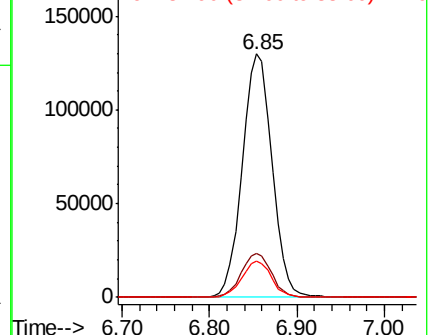
88 14.9 0.0 26.4



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



#35

Dibromofluoromethane

Concen: 46.746 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

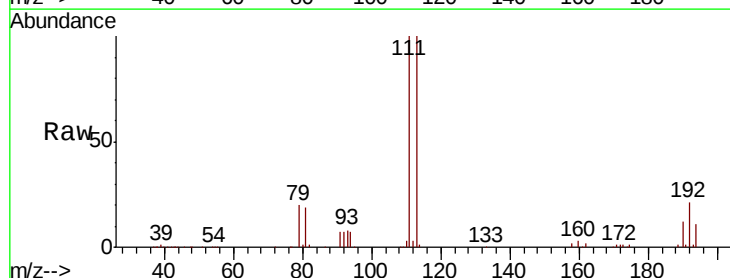
Tgt Ion:113 Resp: 93579

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

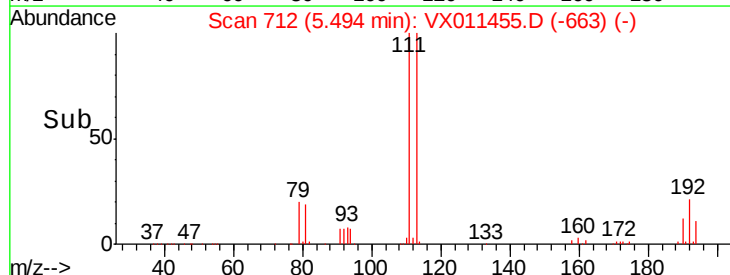
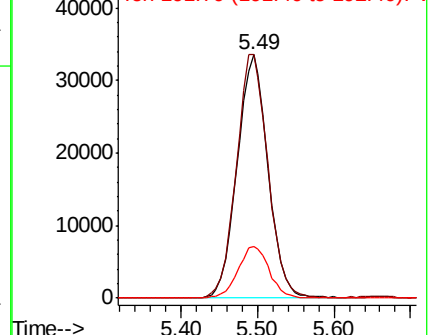
192 21.4 17.8 26.8

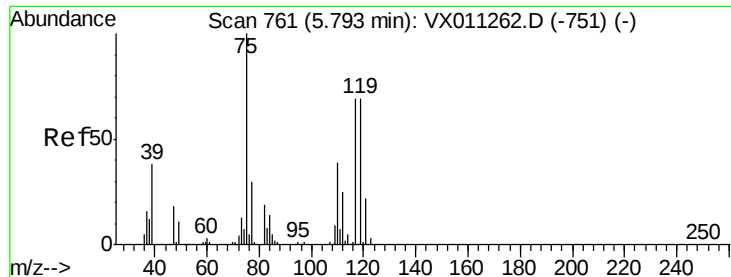


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.256 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampleId :

RBR-200052

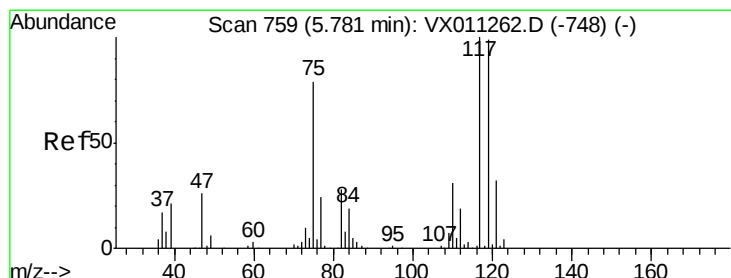
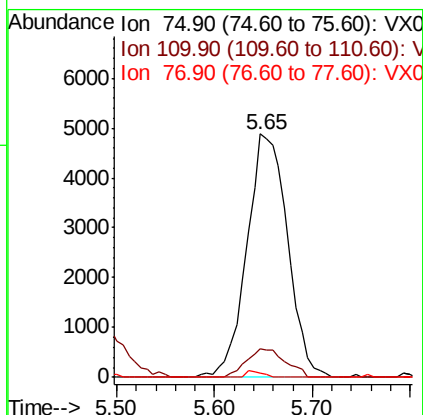
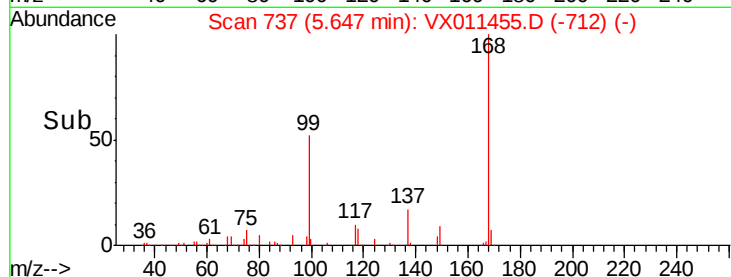
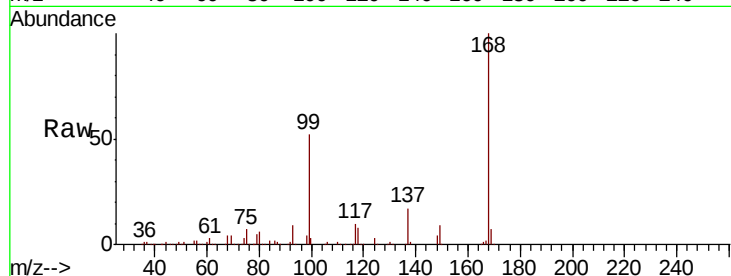
Tgt Ion: 75 Resp: 14072

Ion Ratio Lower Upper

75 100

110 11.3 20.0 59.9#

77 1.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.229 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

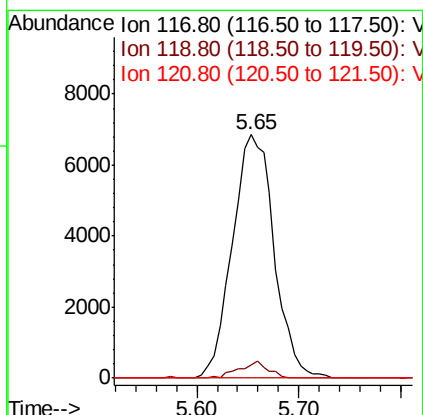
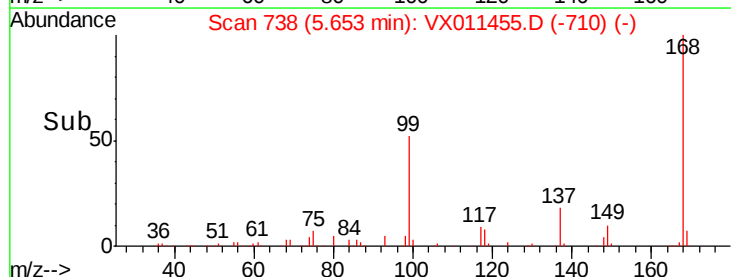
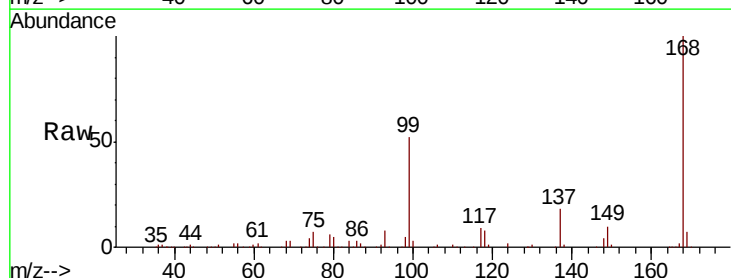
Tgt Ion: 117 Resp: 19470

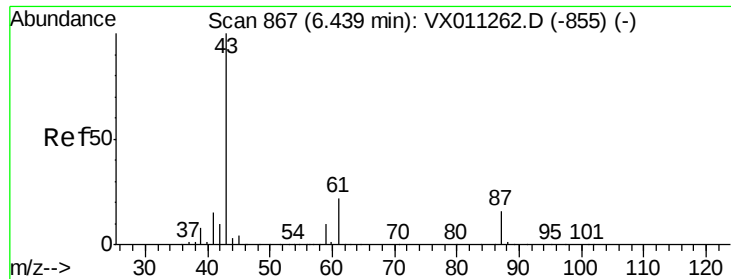
Ion Ratio Lower Upper

117 100

119 5.3 79.0 118.4#

121 0.0 25.9 38.9#





#43

Isopropyl Acetate

Concen: 2.124 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampleId :

RBR-200052

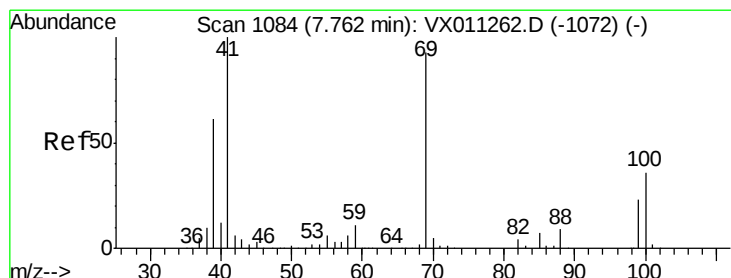
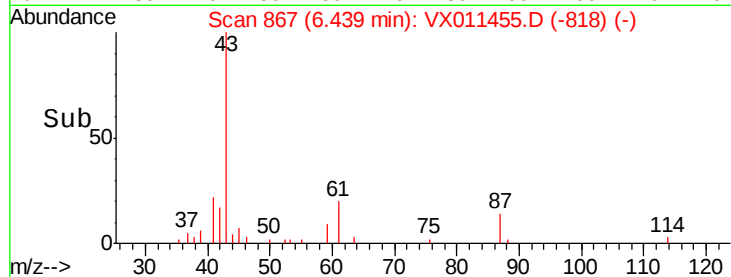
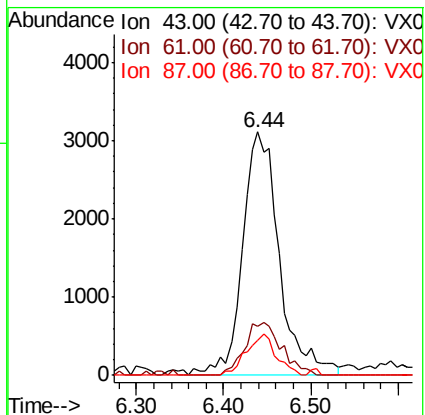
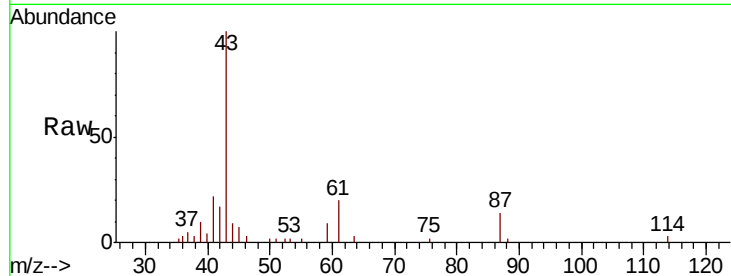
Tgt Ion: 43 Resp: 9118

Ion Ratio Lower Upper

43 100

61 21.8 16.5 24.7

87 13.6 12.1 18.1



#48

Methyl methacrylate

Concen: 2.668 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.09 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

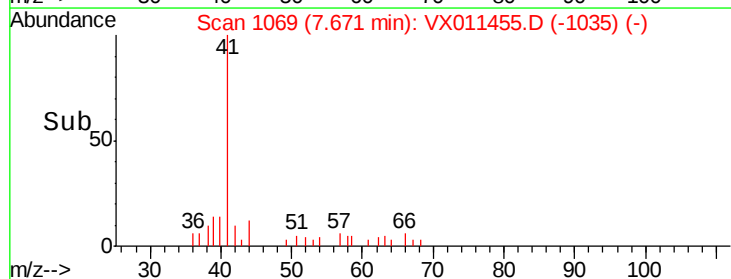
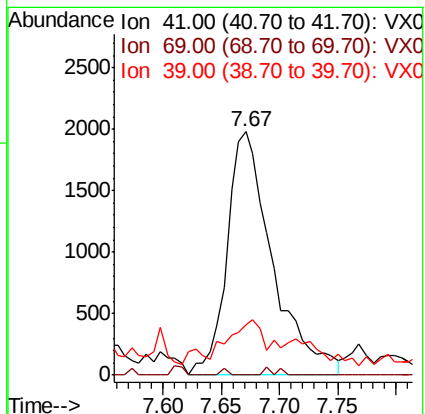
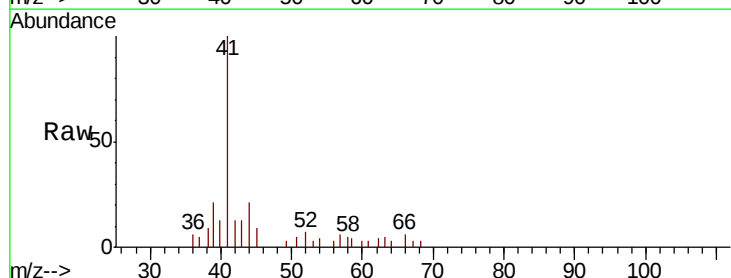
Tgt Ion: 41 Resp: 5390

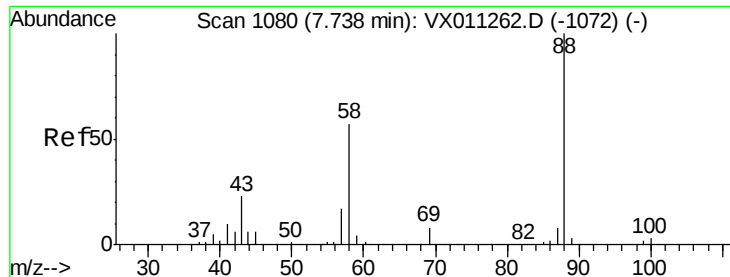
Ion Ratio Lower Upper

41 100

69 0.4 74.5 111.7#

39 0.0 48.6 72.8#

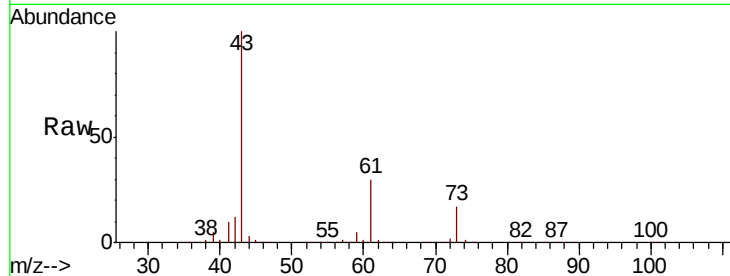




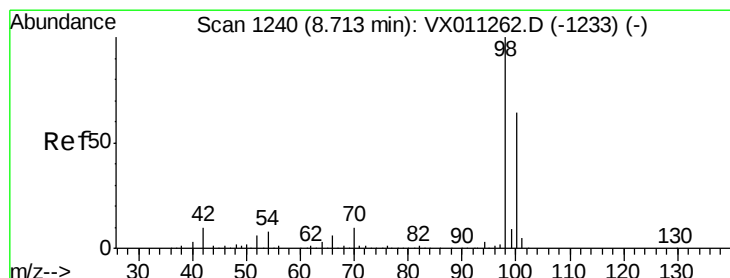
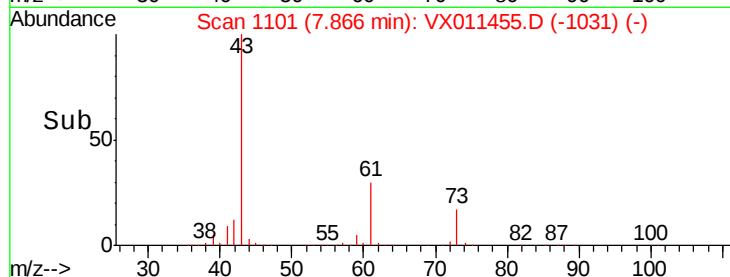
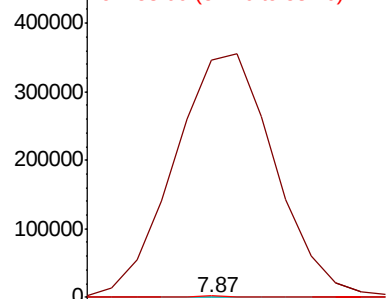
#49
1,4-Dioxane
Concen: 1.673 ug/l
RT: 7.87 min Scan# 1101
Delta R.T. 0.13 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Instrument :
MSVOA_X
ClientSampleId :
RBR-200052

Tgt Ion: 88 Resp: 98
Ion Ratio Lower Upper
88 100
43 627558.2 22.2 33.2#
58 3173.5 47.8 71.8#

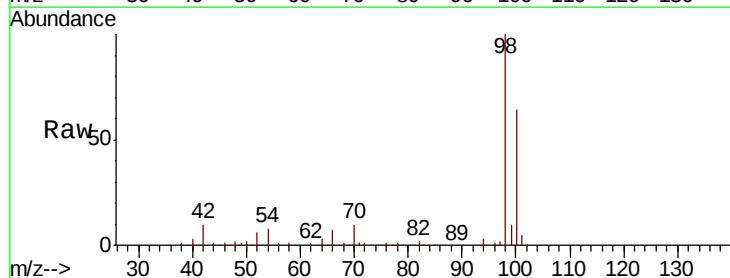


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

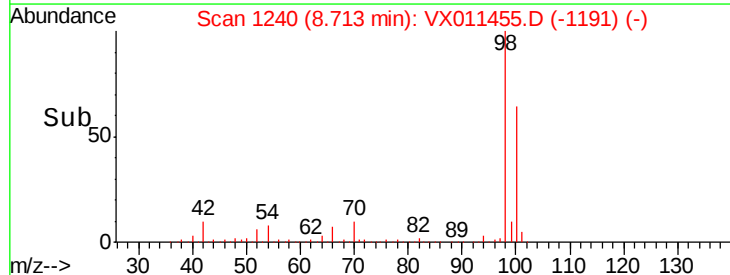
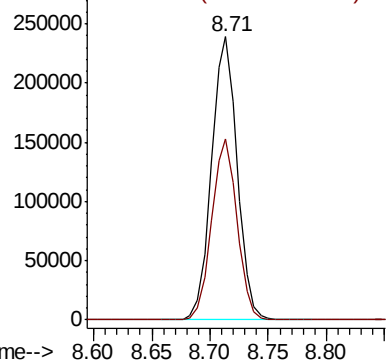


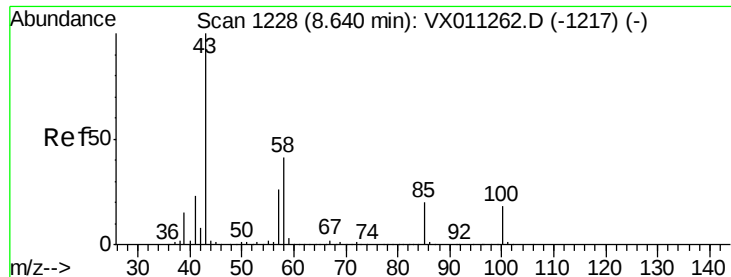
#50
Toluene-d8
Concen: 48.459 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Tgt Ion: 98 Resp: 366178
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 14.996 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011455.D

Acq: 12 Aug 2019 01:35

Instrument :

MSVOA_X

ClientSampled :

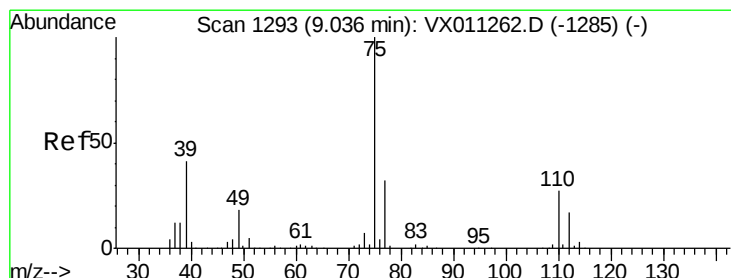
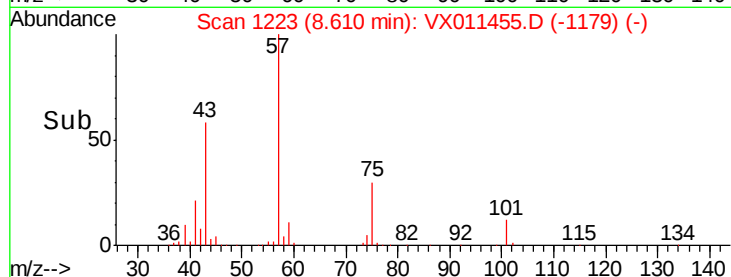
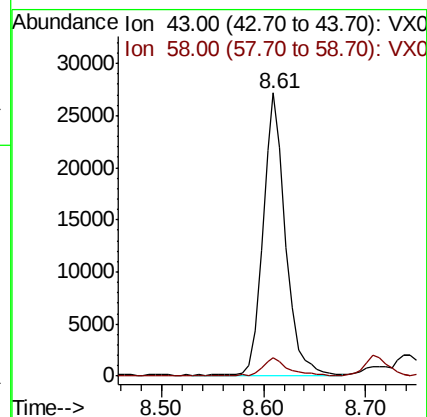
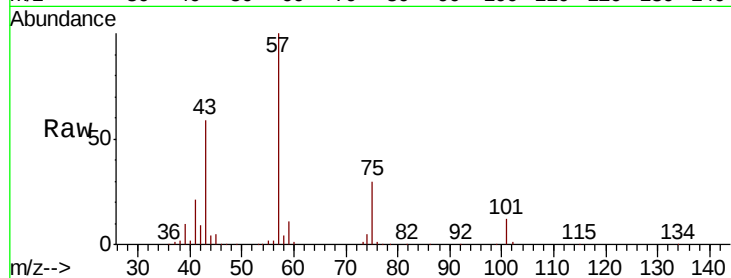
RBR-200052

Tgt Ion: 43 Resp: 41550

Ion Ratio Lower Upper

43 100

58 7.8 32.3 48.5#



#53

t-1,3-Dichloropropene

Concen: 2.867 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX011455.D

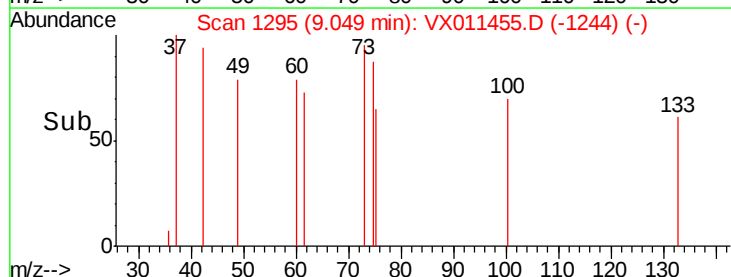
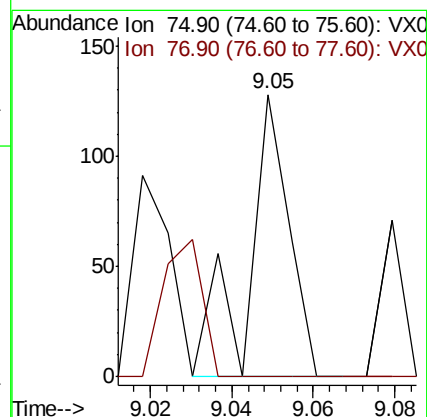
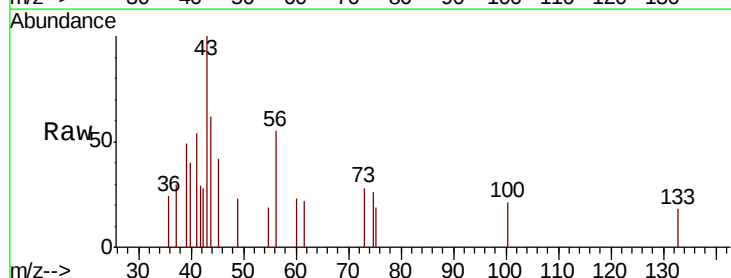
Acq: 12 Aug 2019 01:35

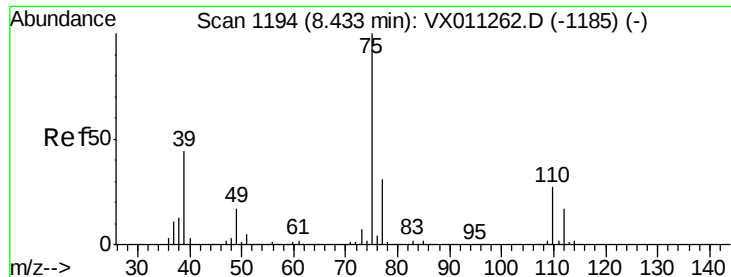
Tgt Ion: 75 Resp: 90

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

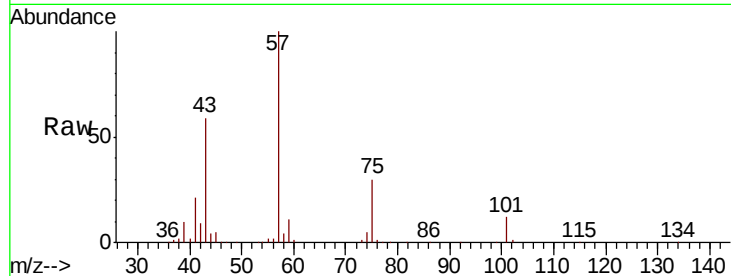




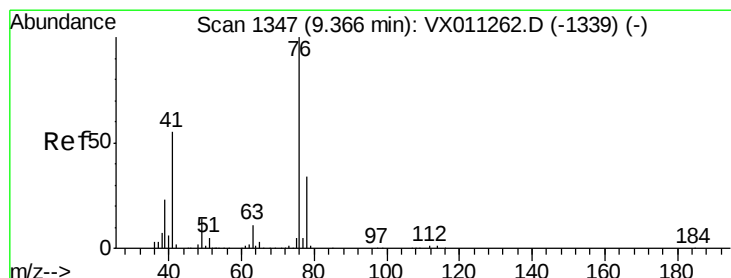
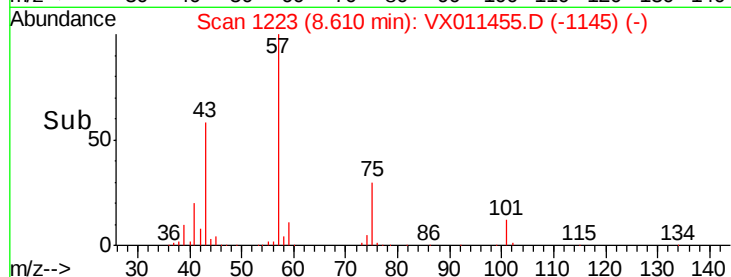
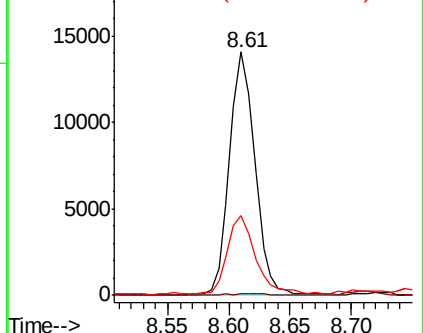
#54
 cis-1,3-Dichloropropene
 Concen: 6.839 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011455.D
 Acq: 12 Aug 2019 01:35

Instrument :
 MSVOA_X
 ClientSampled :
 RBR-200052

Tgt Ion: 75 Resp: 20428
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.6#
 39 32.2 35.3 52.9#

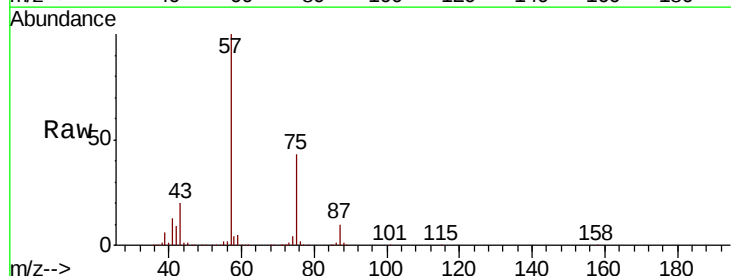


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

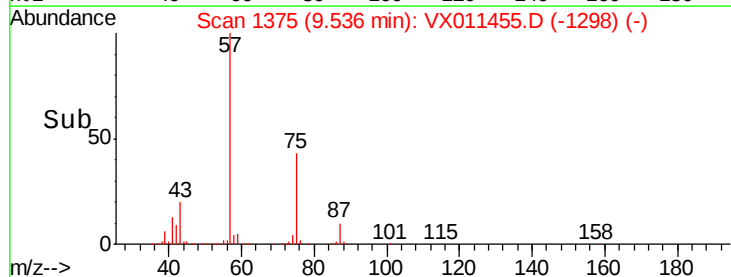
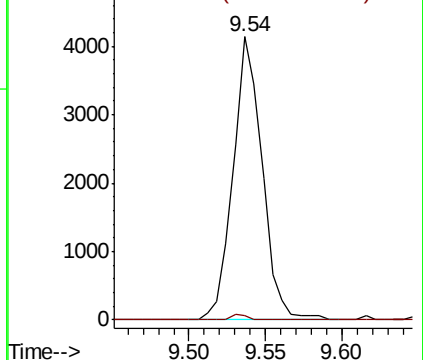


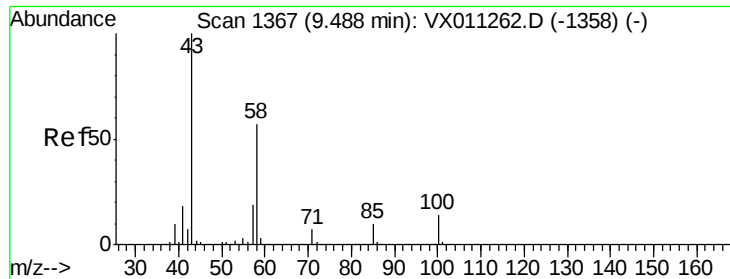
#57
 1,3-Dichloropropane
 Concen: 1.589 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011455.D
 Acq: 12 Aug 2019 01:35

Tgt Ion: 76 Resp: 5458
 Ion Ratio Lower Upper
 76 100
 78 1.0 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

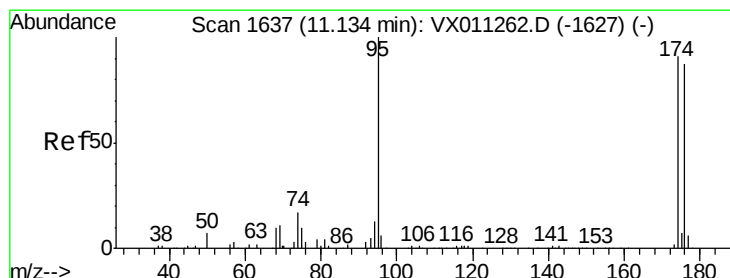
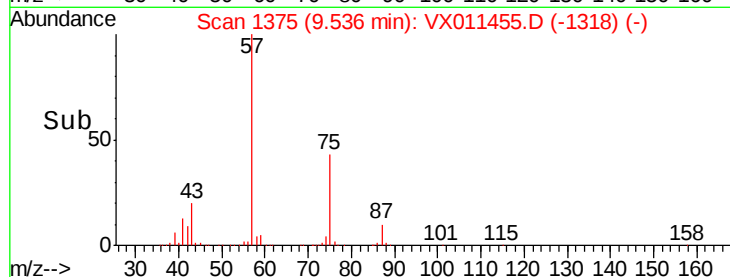
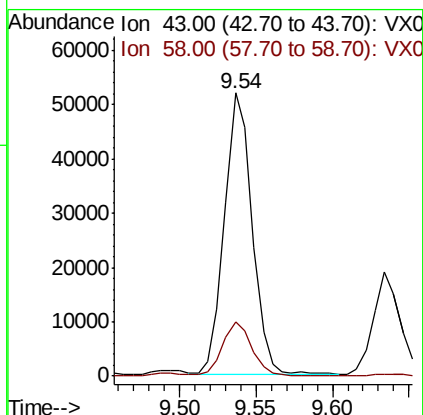
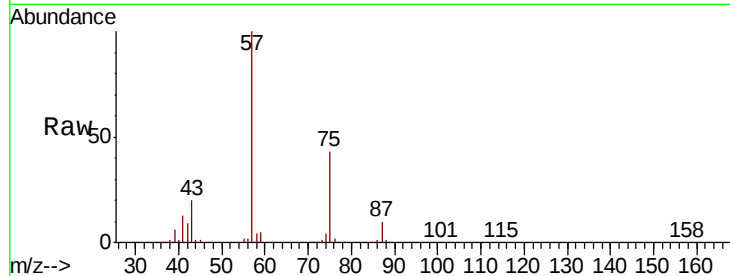




#59
2-Hexanone
Concen: 30.512 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

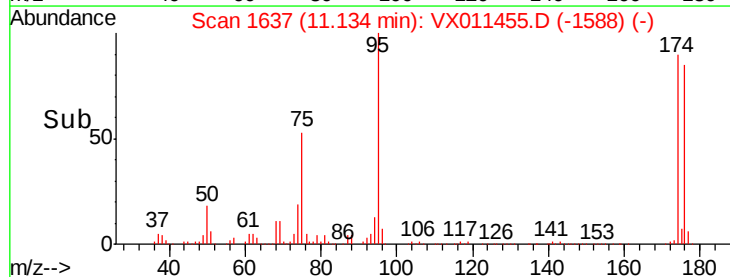
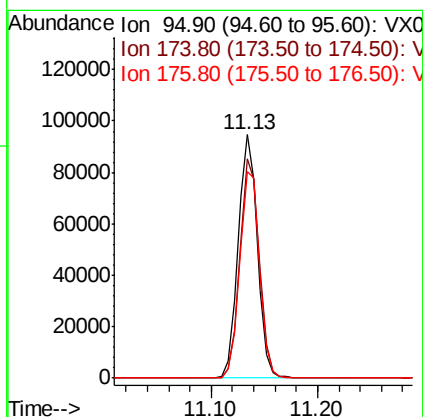
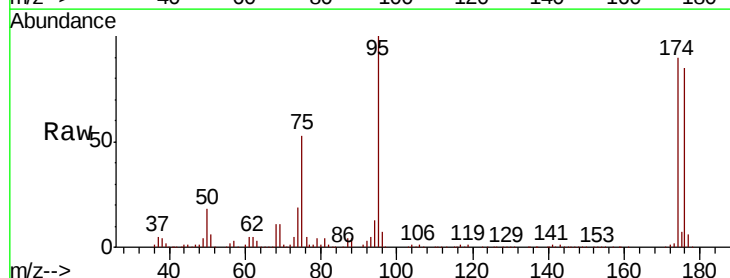
Instrument :
MSVOA_X
ClientSampleId :
RBR-200052

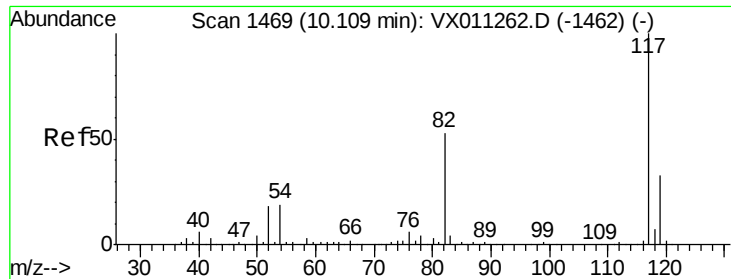
Tgt Ion: 43 Resp: 65481
Ion Ratio Lower Upper
43 100
58 20.6 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 44.484 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Tgt Ion: 95 Resp: 120010
Ion Ratio Lower Upper
95 100
174 91.2 0.0 191.2
176 87.7 0.0 184.8

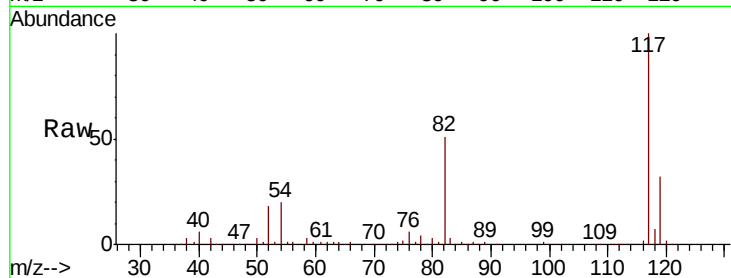




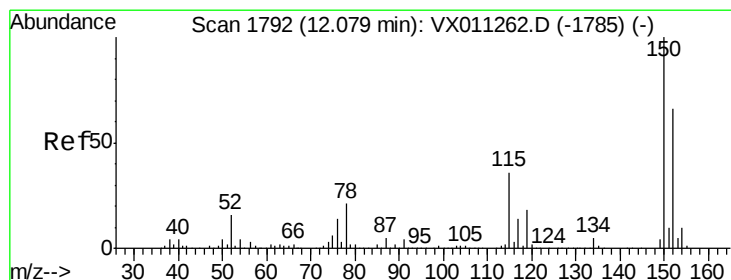
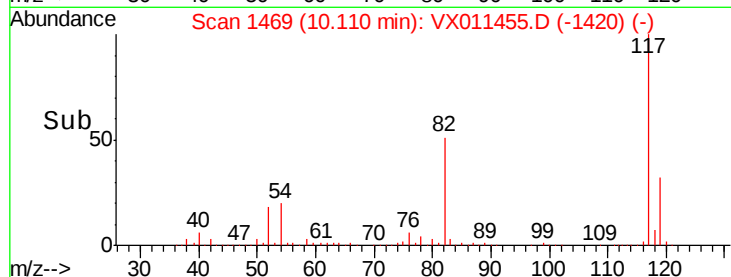
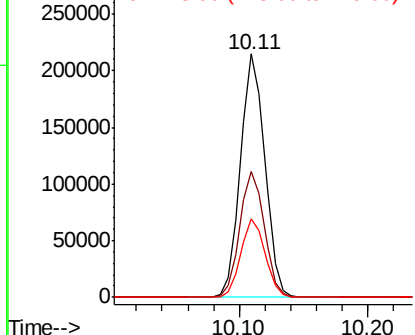
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Instrument :
MSVOA_X
ClientSampleId :
RBR-200052

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.4	42.2	63.2
119	32.2	26.6	39.8

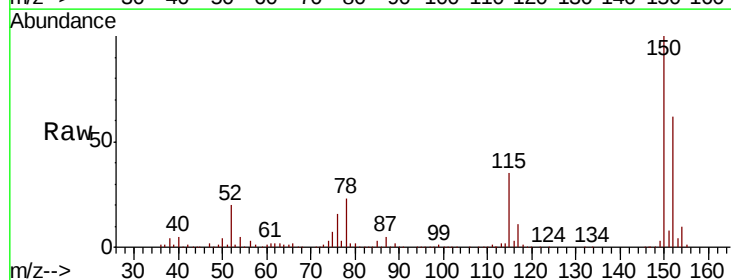


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

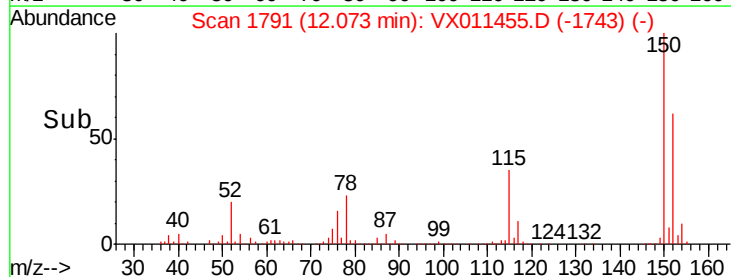
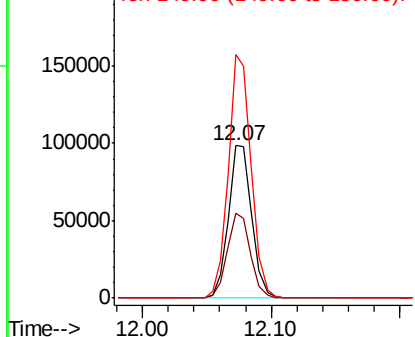


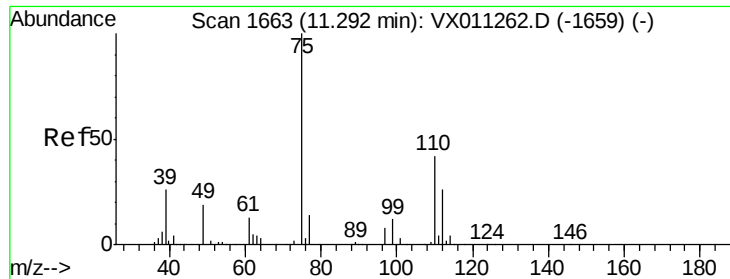
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011455.D
Acq: 12 Aug 2019 01:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	40.0	119.9
150	155.9	0.0	350.4



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

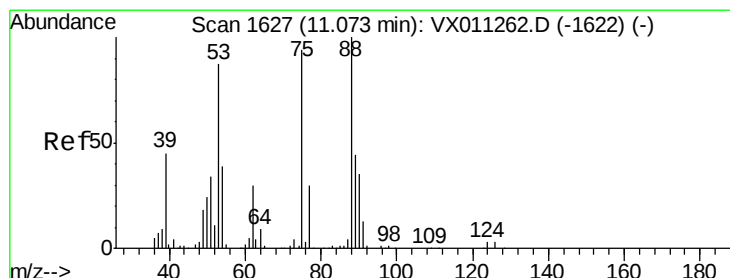
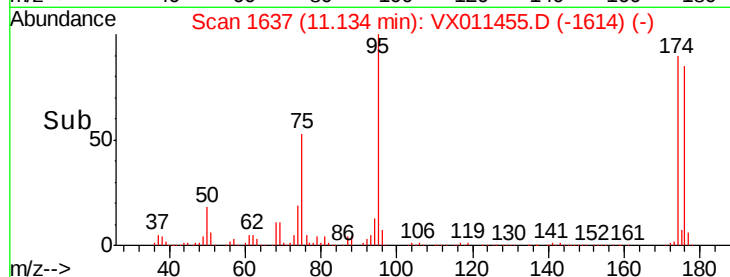
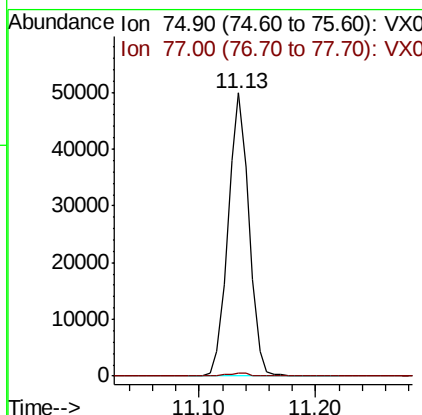
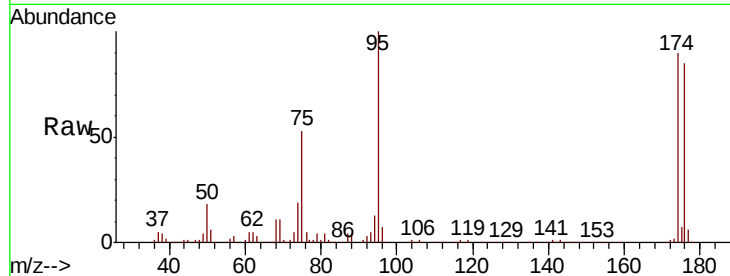




#76
 1,2,3-Trichloropropane
 Concen: 27.044 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011455.D
 Acq: 12 Aug 2019 01:35

Instrument :
 MSVOA_X
 ClientSampled :
 RBR-200052

Tgt Ion: 75 Resp: 61839
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.203 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011455.D
 Acq: 12 Aug 2019 01:35

Tgt Ion: 75 Resp: 61839
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.2 117.4#
 89 0.0 37.9 56.9#

