

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081319\
 Data File : VX011546.D
 Acq On : 13 Aug 2019 19:11
 Operator : JC/SP
 Sample : K4266-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 R1-R2-A2-(4.3)

Quant Time: Aug 14 01:10:37 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	5.65	168	191164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	287550	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	266595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	119369	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	106816	55.49	ug/l	0.00
Spiked Amount			Recovery	=	110.98%	
35) Dibromofluoromethane	5.49	113	88116	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
50) Toluene-d8	8.71	98	343800	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
62) 4-Bromofluorobenzene	11.13	95	117419	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	

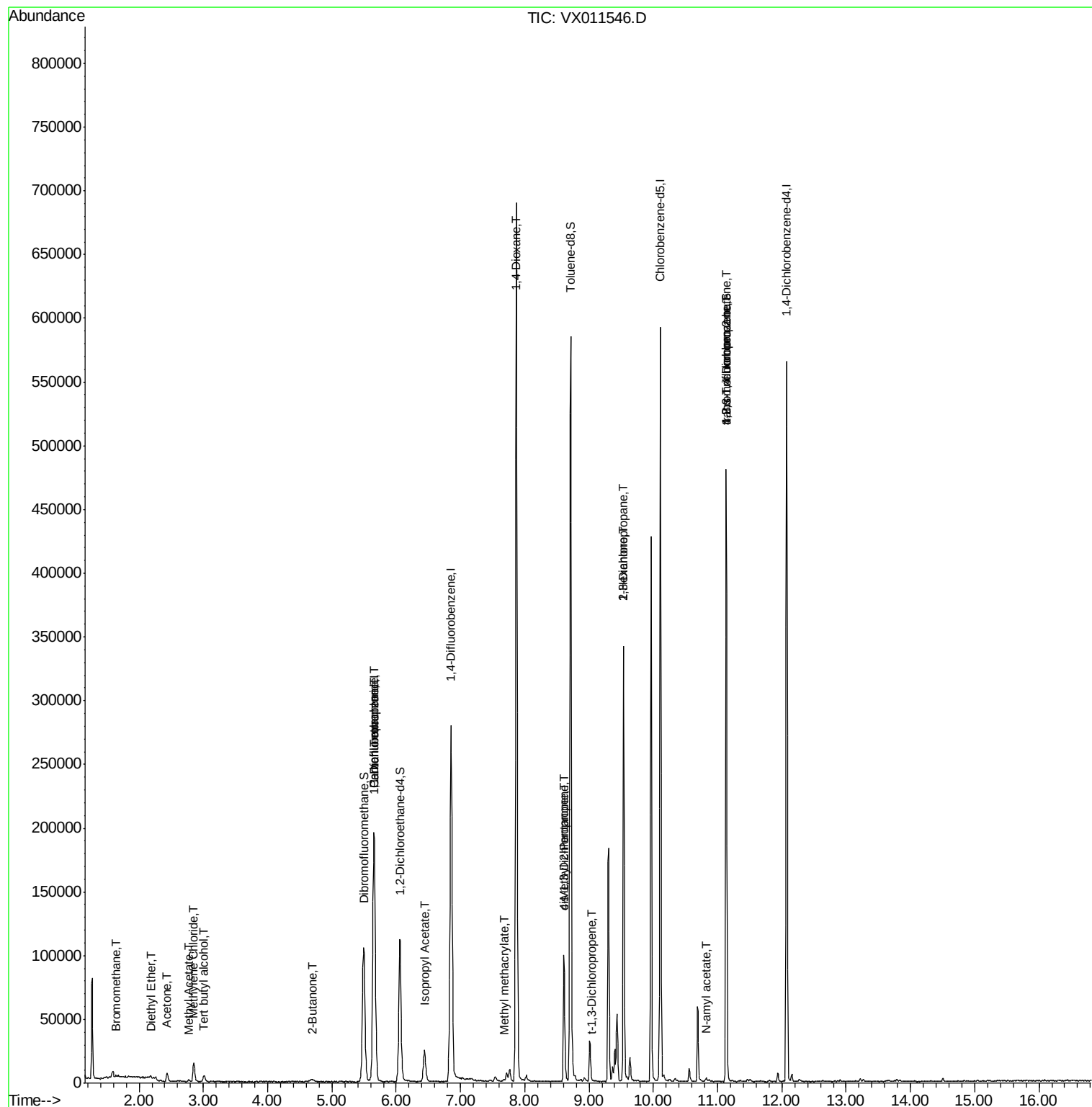
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	433	0.333	ug/l #	76
6) Chloroethane	1.68	64	564	Below Cal	#	43
8) Diethyl Ether	2.18	74	286	0.247	ug/l	94
11) Tert butyl alcohol	3.01	59	2719	7.105	ug/l #	74
16) Acetone	2.43	43	7202	7.860	ug/l	96
18) Methyl Acetate	2.76	43	1663	0.794	ug/l #	87
20) Methylene Chloride	2.85	84	6855	3.416	ug/l	86
25) 2-Butanone	4.70	43	1397	1.072	ug/l	99
36) 1,1-Dichloropropene	5.67	75	13406	5.340	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18388	7.280	ug/l #	15
43) Isopropyl Acetate	6.45	43	32241	8.008	ug/l	99
48) Methyl methacrylate	7.68	41	2084	1.100	ug/l #	10
49) 1,4-Dioxane	7.87	88	219	3.987	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	32742	12.601	ug/l #	50
53) t-1,3-Dichloropropene	9.05	75	19	2.845	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	15782	5.634	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	2892	0.898	ug/l #	44
59) 2-Hexanone	9.54	43	38740	19.249	ug/l #	52
74) N-amyl acetate	10.82	43	1627	0.552	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	59799	27.508	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	59799	71.331	ug/l #	10

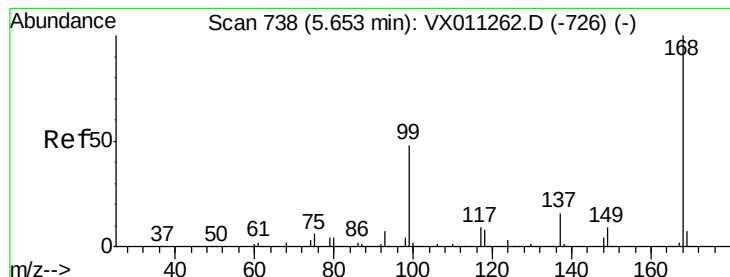
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011546.D

Acq: 13 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

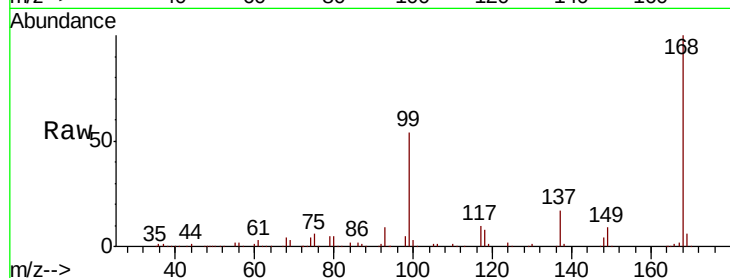
R1-R2-A2-(4.3)

Tgt Ion:168 Resp: 191164

Ion Ratio Lower Upper

168 100

99 53.7 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

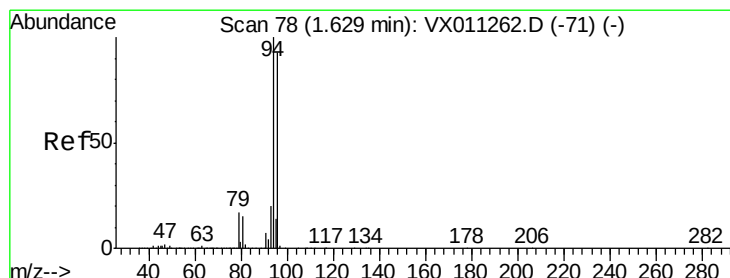
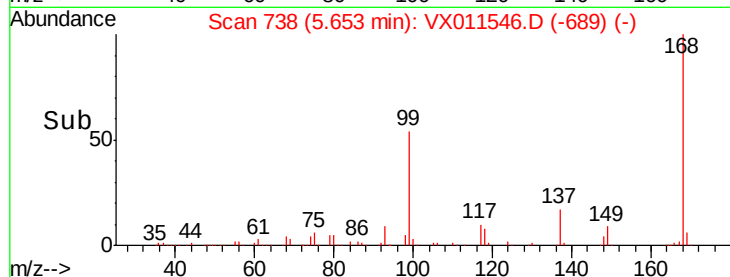
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.333 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011546.D

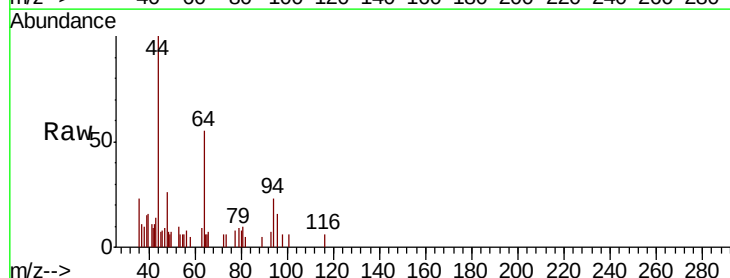
Acq: 13 Aug 2019 19:11

Tgt Ion: 94 Resp: 433

Ion Ratio Lower Upper

94 100

96 70.2 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

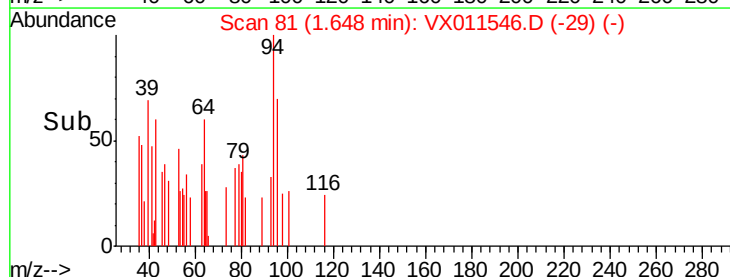
150

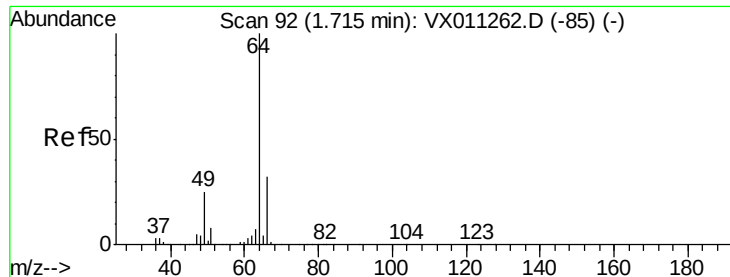
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX011546.D

Acq: 13 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

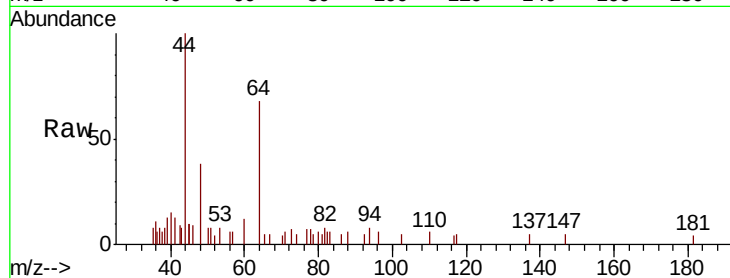
R1-R2-A2-(4.3)

Tgt Ion: 64 Resp: 564

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

800

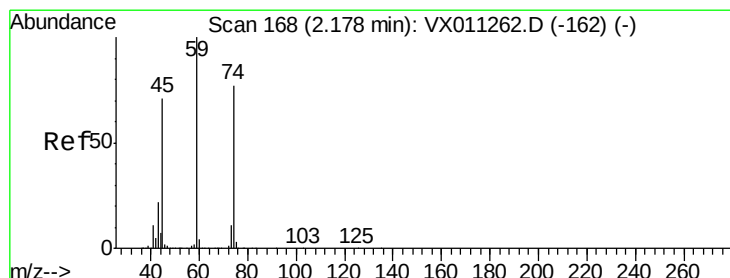
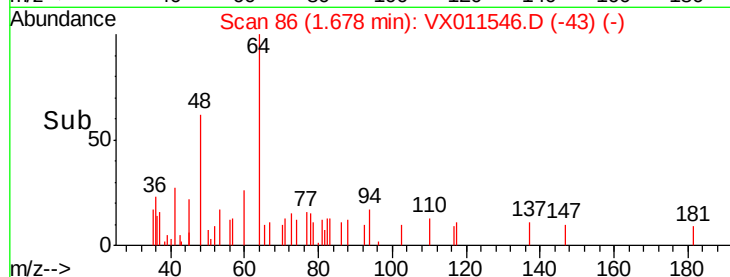
600

400

200

0

Time--> 1.64 1.66 1.68 1.70 1.72



#8

Diethyl Ether

Concen: 0.247 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011546.D

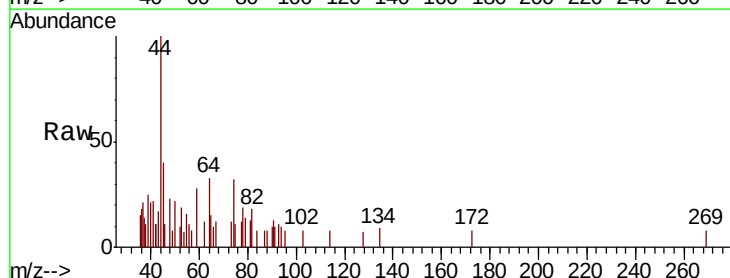
Acq: 13 Aug 2019 19:11

Tgt Ion: 74 Resp: 286

Ion Ratio Lower Upper

74 100

45 98.3 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

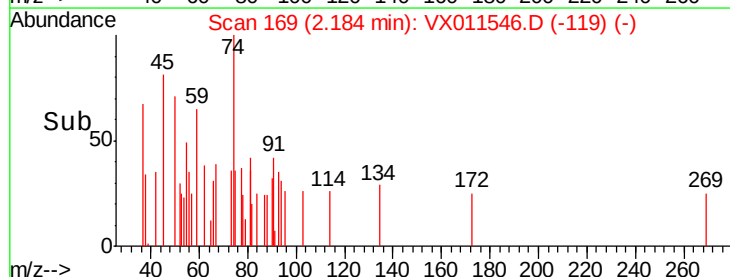
300

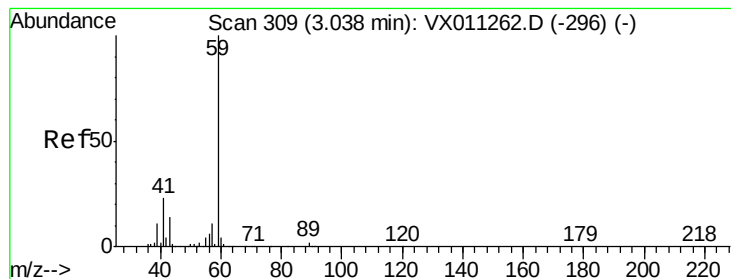
200

100

0

Time--> 2.14 2.16 2.18 2.20





#11

Tert butyl alcohol

Concen: 7.105 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.03 min

Lab File: VX011546.D

Acq: 13 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

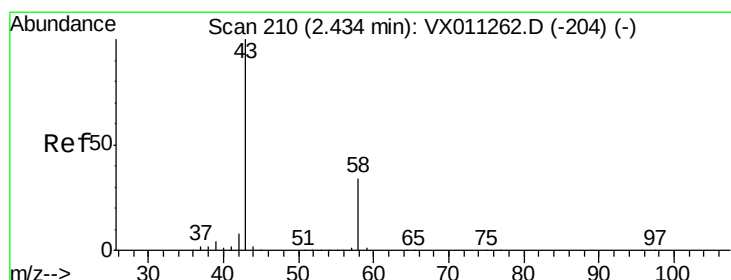
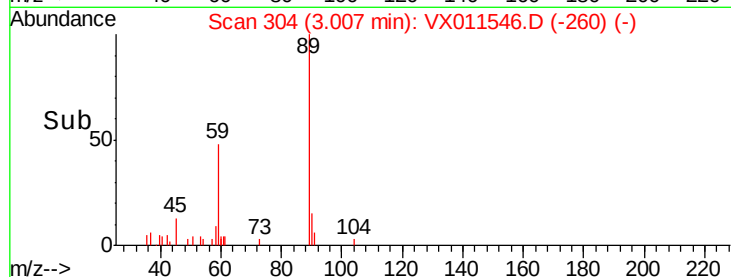
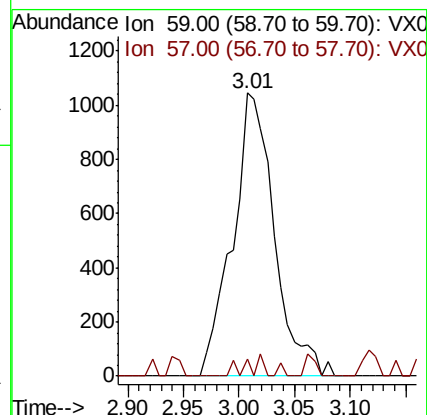
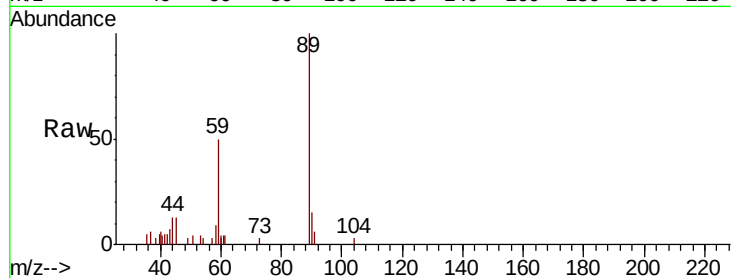
R1-R2-A2-(4.3)

Tgt Ion: 59 Resp: 2719

Ion Ratio Lower Upper

59 100

57 0.8 8.3 12.5#



#16

Acetone

Concen: 7.860 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011546.D

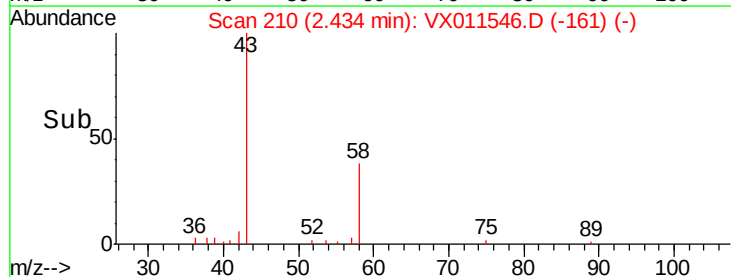
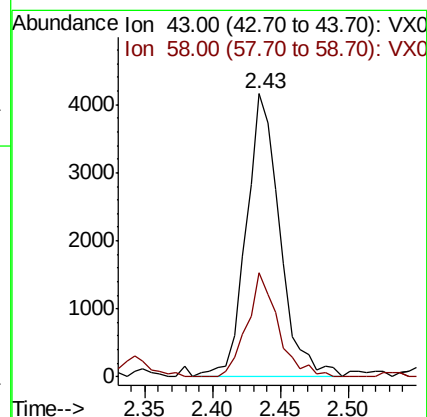
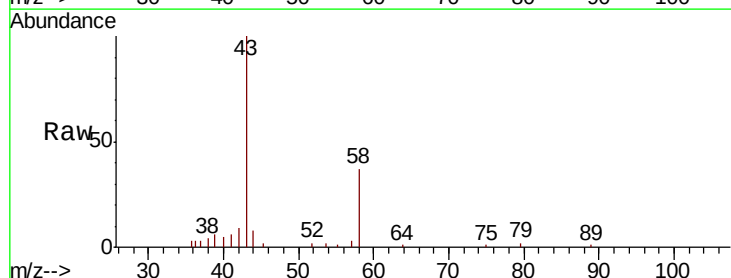
Acq: 13 Aug 2019 19:11

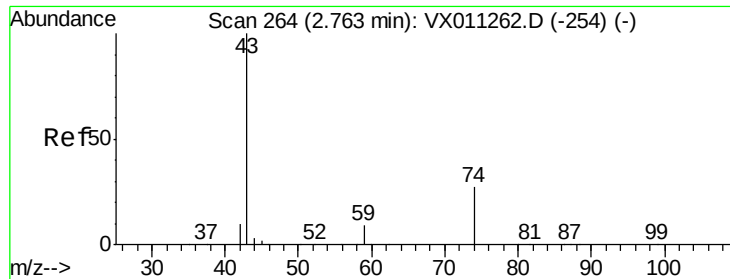
Tgt Ion: 43 Resp: 7202

Ion Ratio Lower Upper

43 100

58 36.7 27.4 41.0

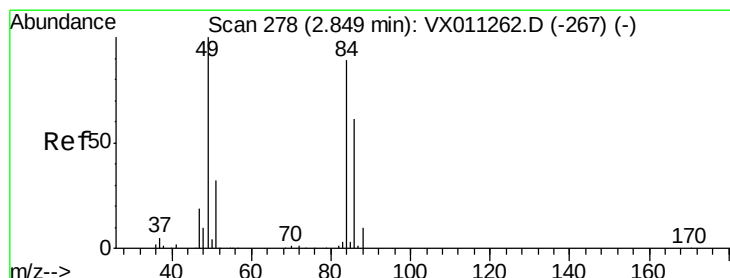
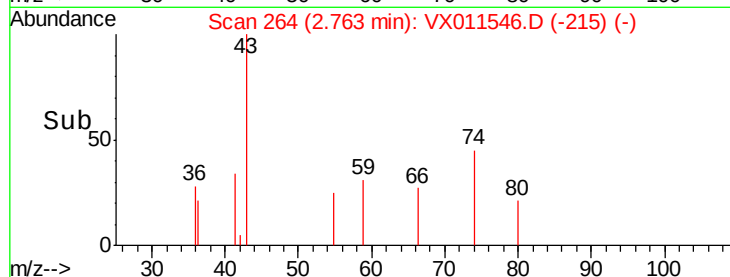
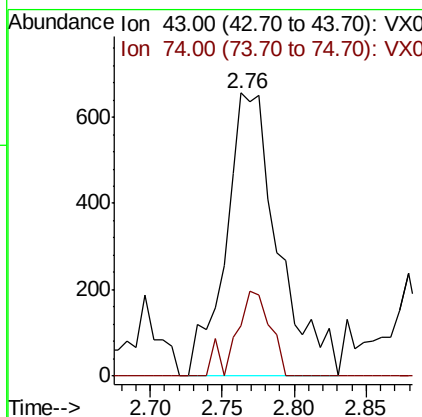
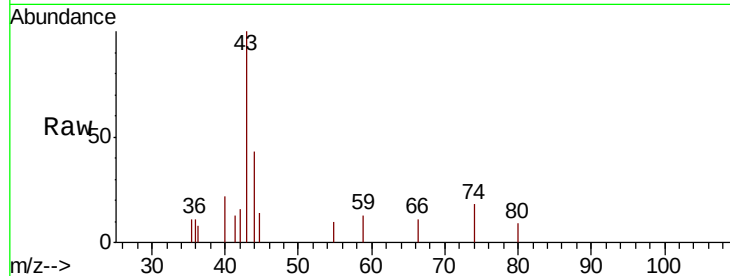




#18
Methyl Acetate
Concen: 0.794 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

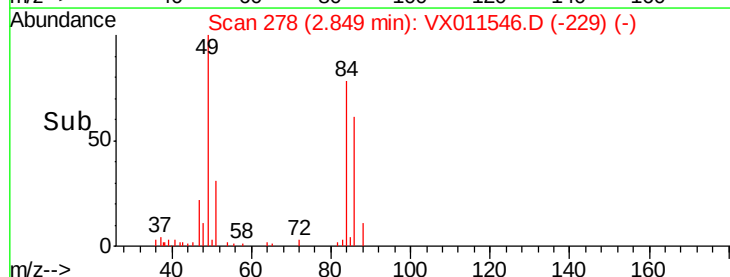
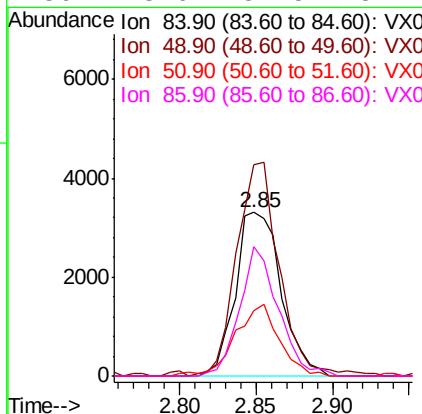
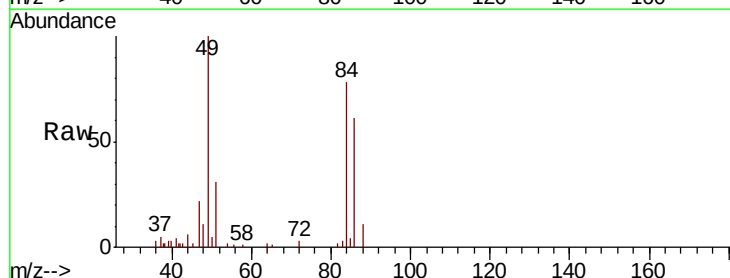
Instrument :
MSVOA_X
ClientSampleId :
R1-R2-A2-(4.3)

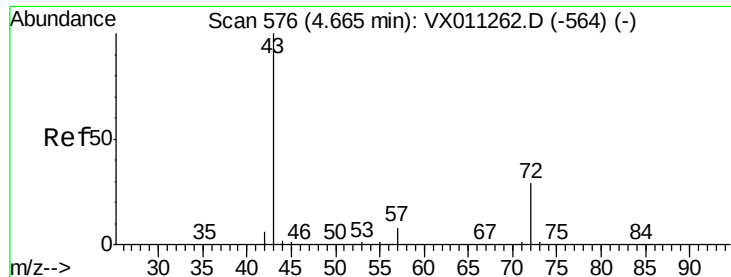
Tgt Ion: 43 Resp: 1663
Ion Ratio Lower Upper
43 100
74 19.7 21.0 31.6#



#20
Methylene Chloride
Concen: 3.416 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

Tgt Ion: 84 Resp: 6855
Ion Ratio Lower Upper
84 100
49 128.7 89.3 133.9
51 39.9 28.3 42.5
86 78.6 54.5 81.7

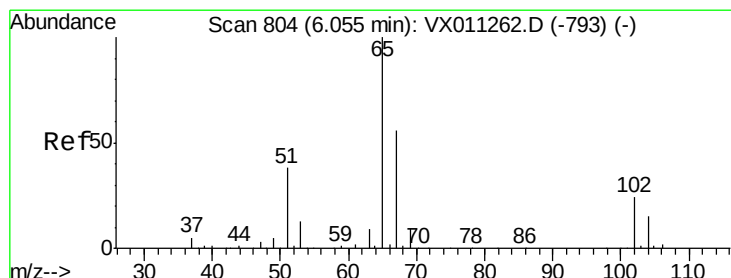
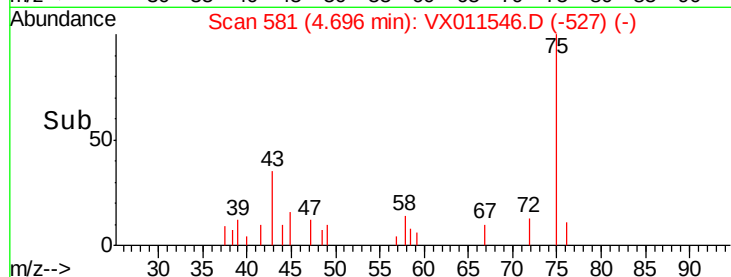
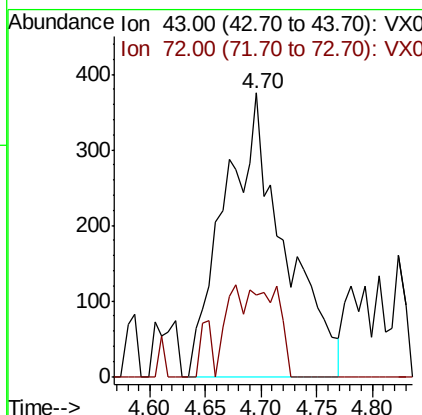
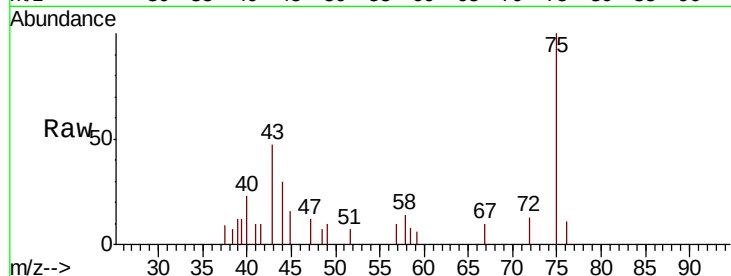




#25
2-Butanone
Concen: 1.072 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.03 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

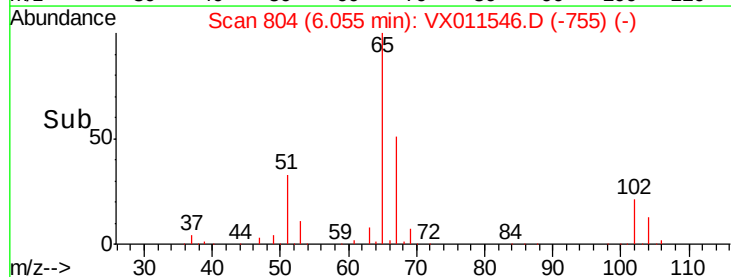
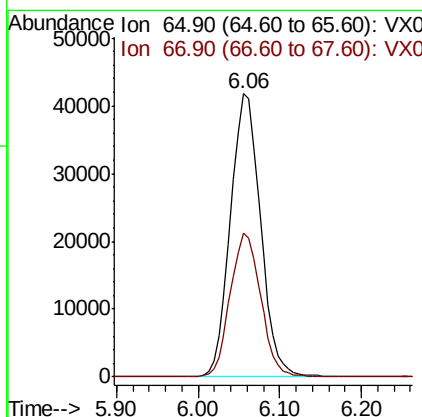
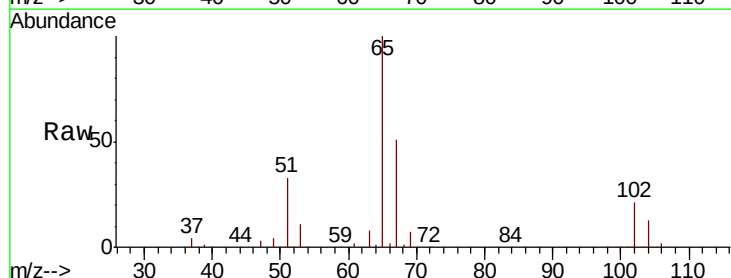
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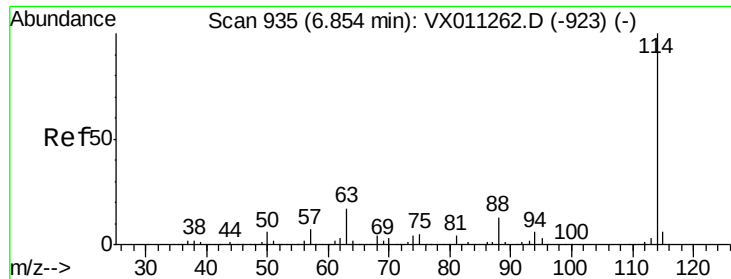
Tgt Ion: 43 Resp: 1397
Ion Ratio Lower Upper
43 100
72 28.5 23.2 34.8



#33
1,2-Dichloroethane-d4
Concen: 55.485 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

Tgt Ion: 65 Resp: 106816
Ion Ratio Lower Upper
65 100
67 51.3 0.0 110.6

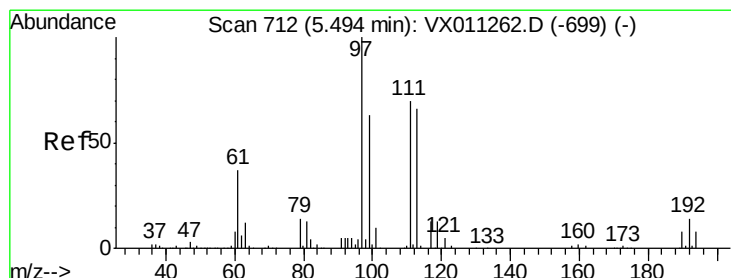
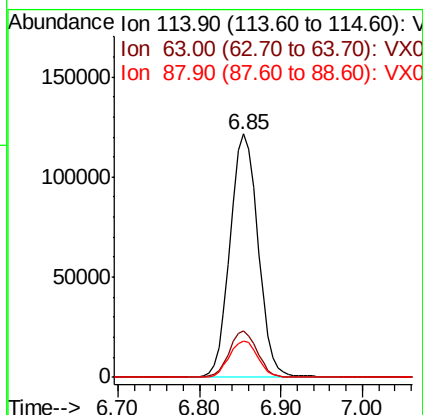
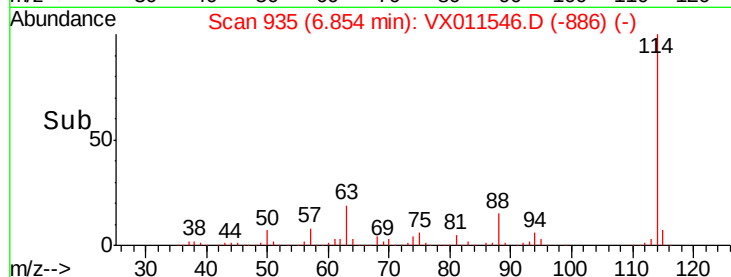
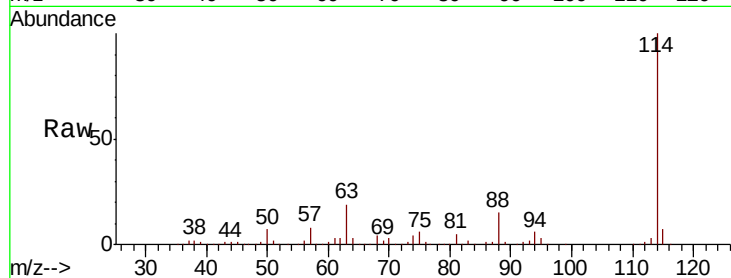




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

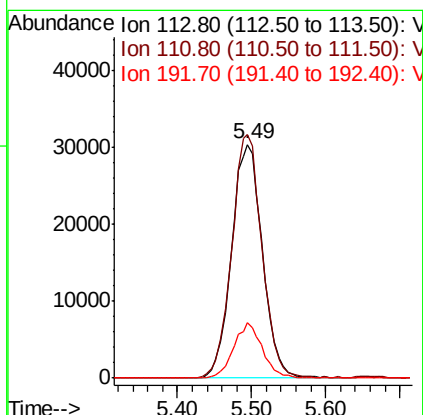
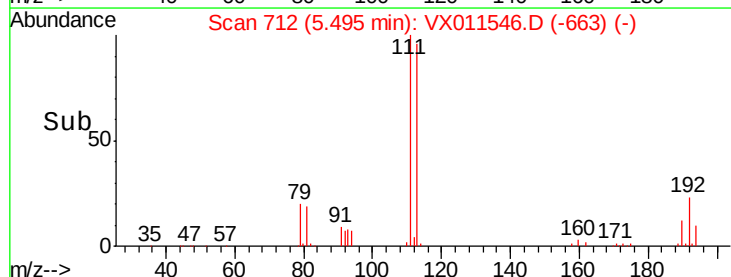
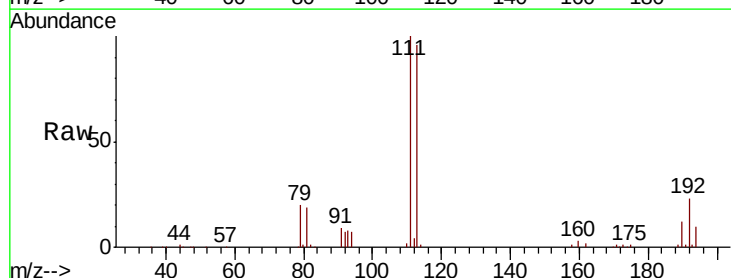
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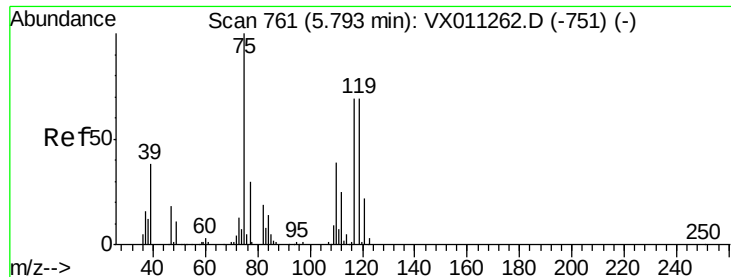
Tgt Ion:114 Resp: 287550
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 34.0
 88 15.0 0.0 26.4



#35
 Dibromofluoromethane
 Concen: 46.936 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

Tgt Ion:113 Resp: 88116
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.9 122.9
 192 21.8 17.8 26.8

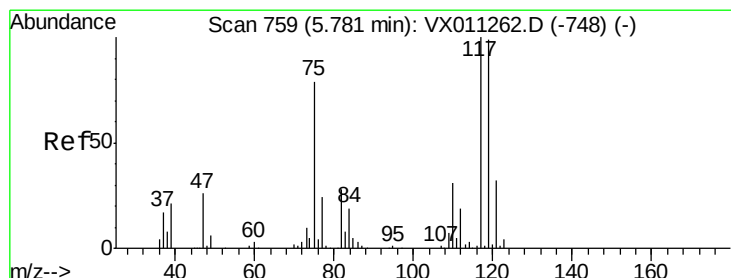
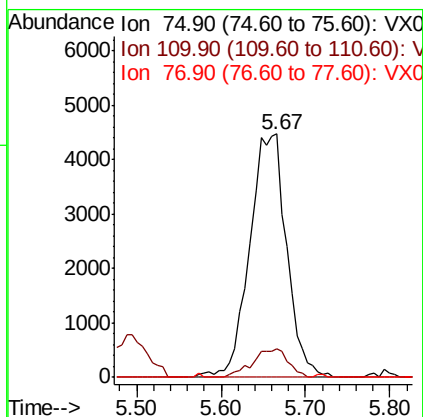
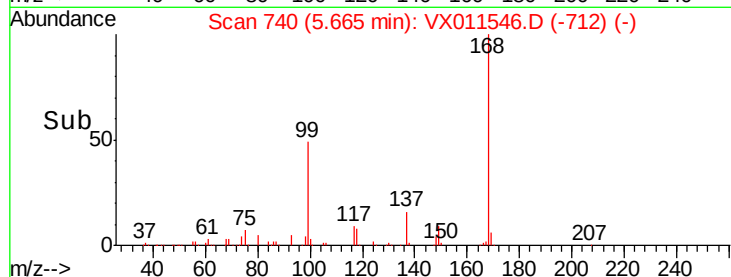
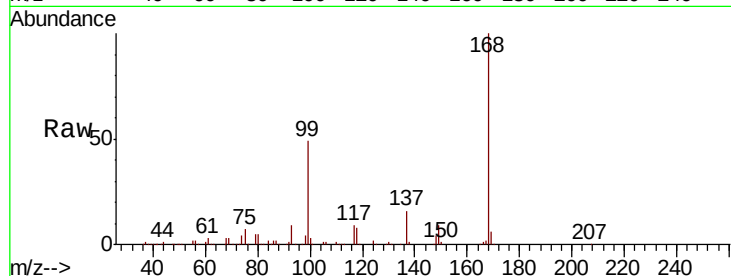




#36
 1,1-Dichloropropene
 Concen: 5.340 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

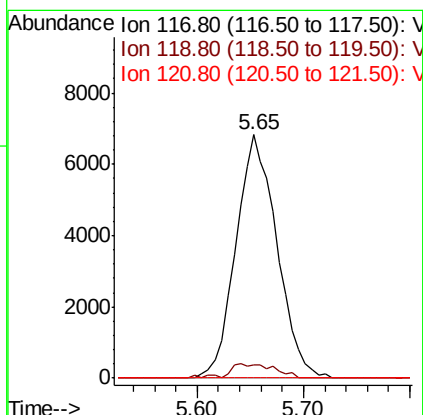
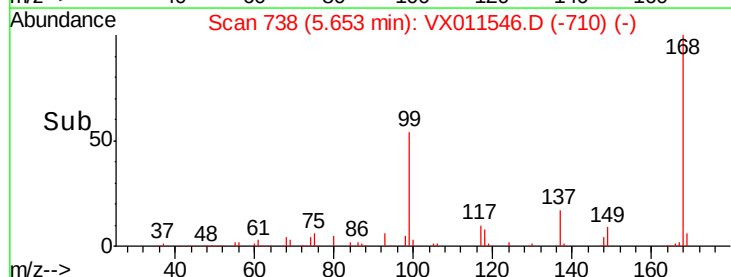
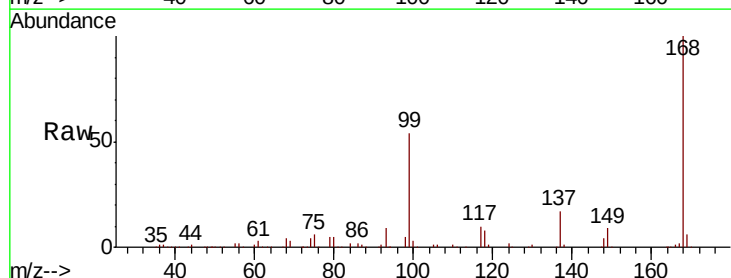
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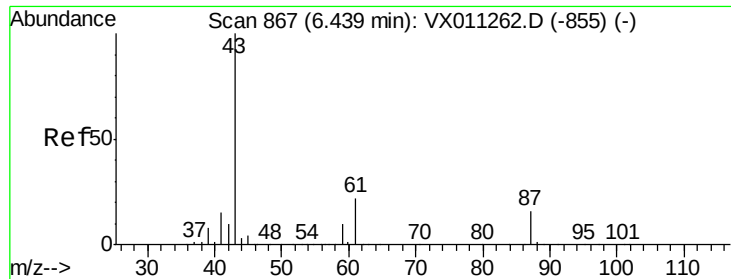
Tgt Ion: 75 Resp: 13406
 Ion Ratio Lower Upper
 75 100
 110 11.3 20.0 59.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.280 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

Tgt Ion: 117 Resp: 18388
 Ion Ratio Lower Upper
 117 100
 119 5.6 79.0 118.4#
 121 0.0 25.9 38.9#





#43

Isopropyl Acetate

Concen: 8.008 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX011546.D

Acq: 13 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-A2-(4.3)

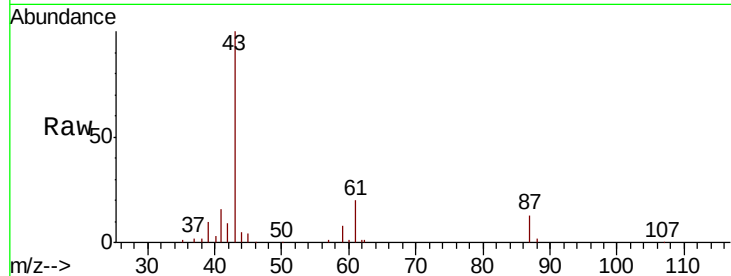
Tgt Ion: 43 Resp: 32241

Ion Ratio Lower Upper

43 100

61 21.2 16.5 24.7

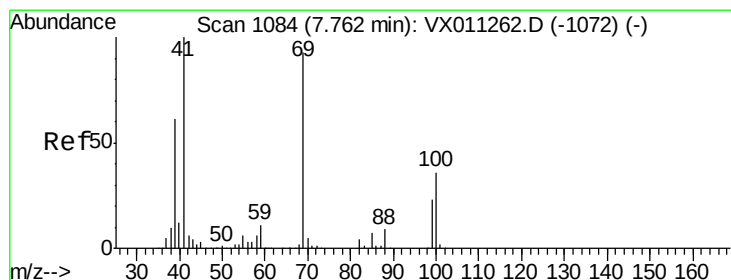
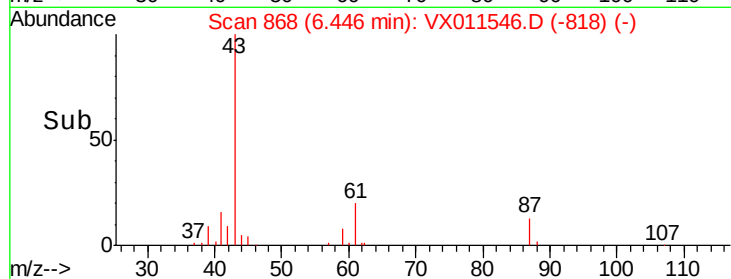
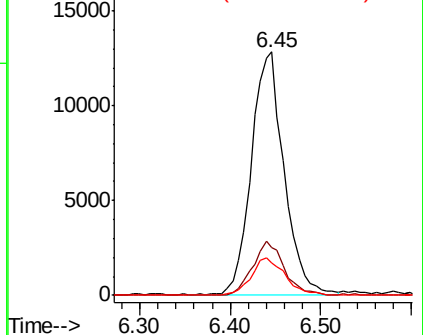
87 15.7 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.100 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011546.D

Acq: 13 Aug 2019 19:11

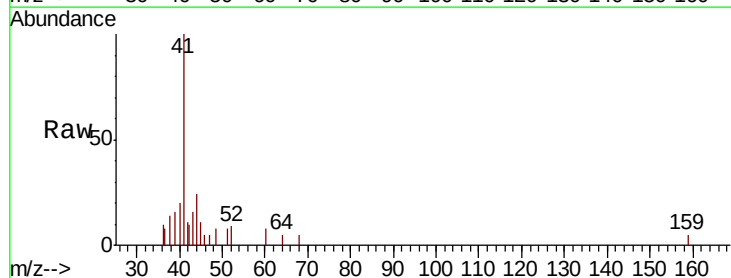
Tgt Ion: 41 Resp: 2084

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

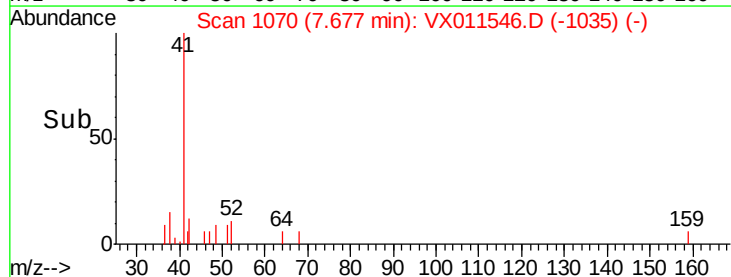
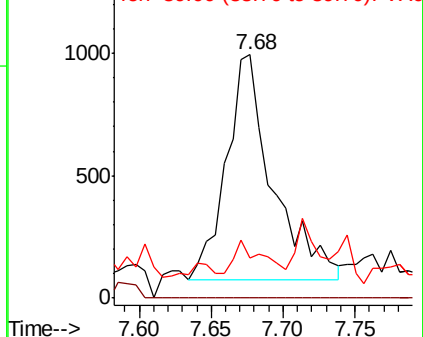
39 0.0 48.6 72.8#

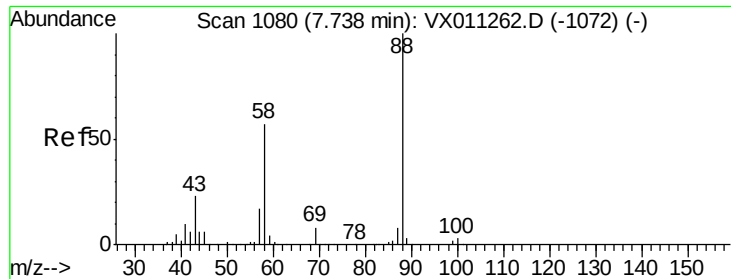


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

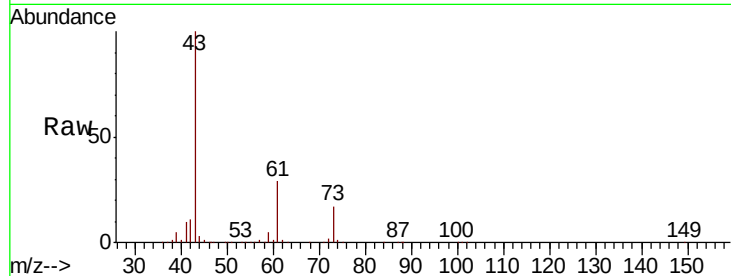




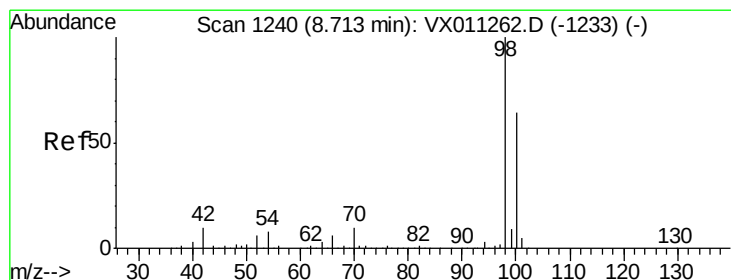
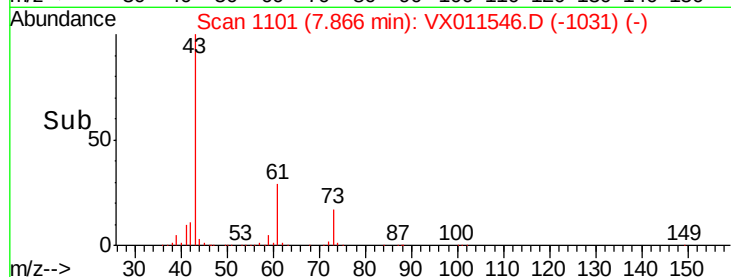
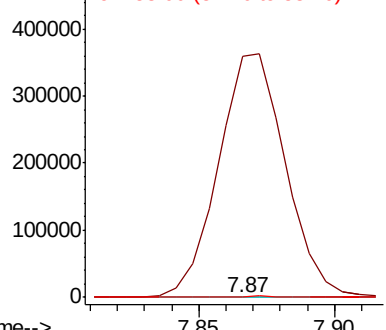
#49
1,4-Dioxane
Concen: 3.987 ug/l
RT: 7.87 min Scan# 1101
Delta R.T. 0.13 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

Instrument :
MSVOA_X
ClientSampleId :
R1-R2-A2-(4.3)

Tgt Ion: 88 Resp: 219
Ion Ratio Lower Upper
88 100
43 285334.2 22.2 33.2#
58 1435.6 47.8 71.8#

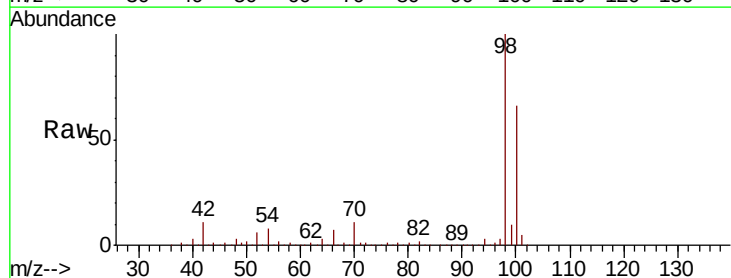


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

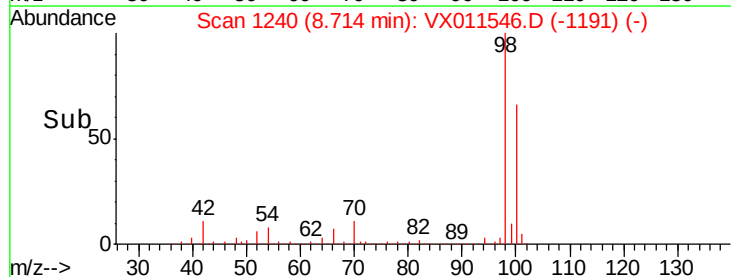
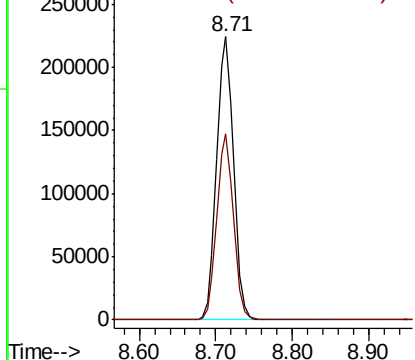


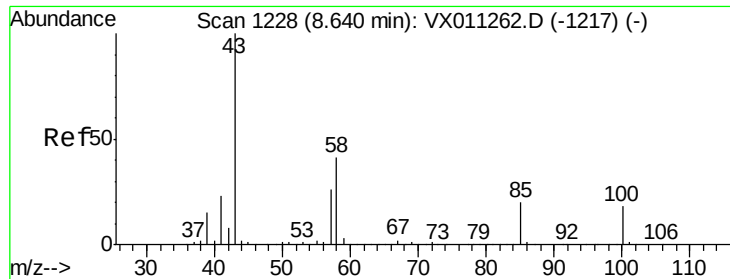
#50
Toluene-d8
Concen: 48.515 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

Tgt Ion: 98 Resp: 343800
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5



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

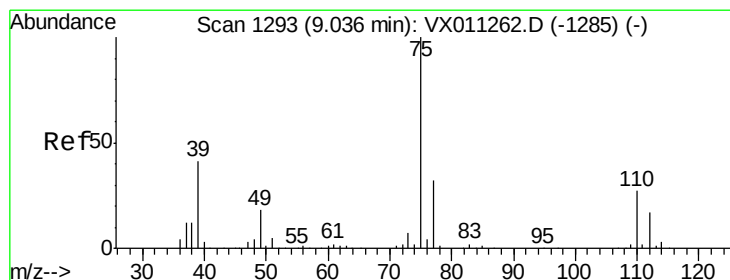
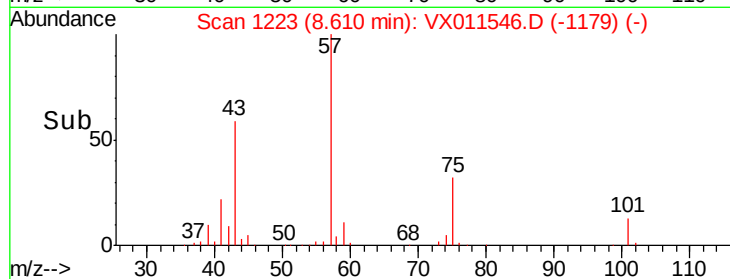
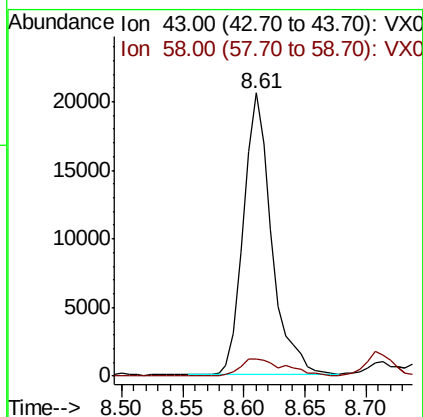
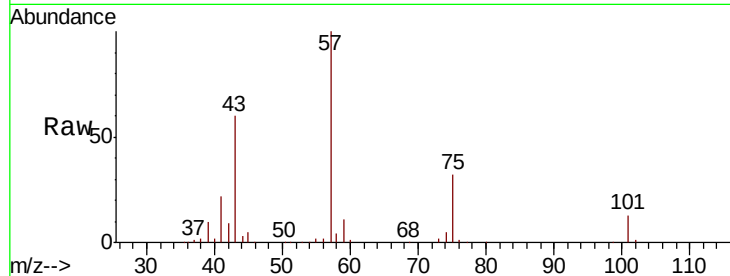




#51
 4-Methyl-2-Pentanone
 Concen: 12.601 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

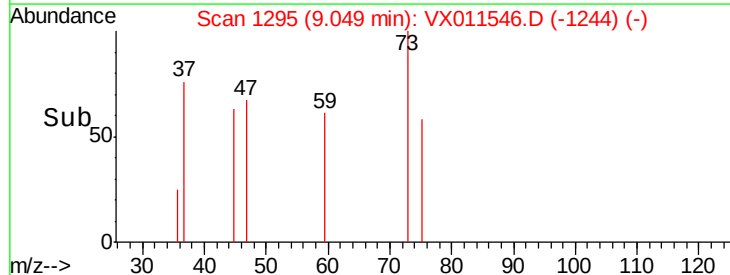
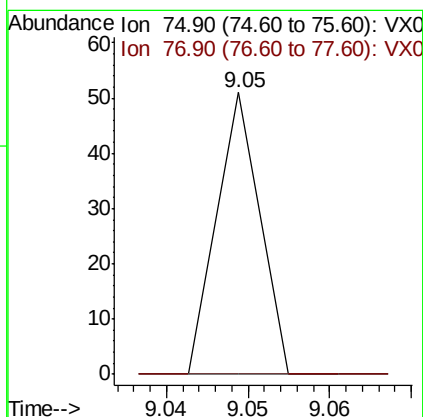
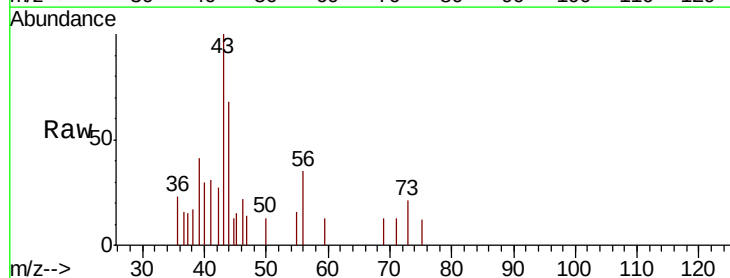
Instrument :
 MSVOA_X
 ClientSampleId :
 R1-R2-A2-(4.3)

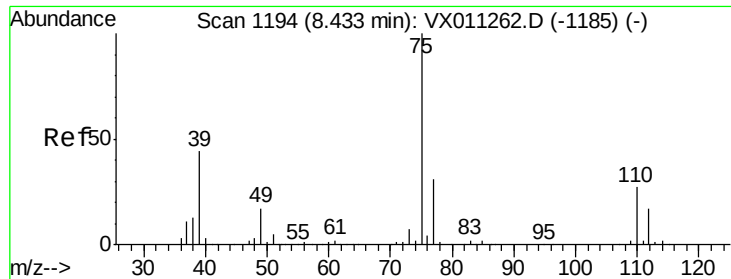
Tgt Ion: 43 Resp: 32742
 Ion Ratio Lower Upper
 43 100
 58 9.6 32.3 48.5#



#53
 t-1,3-Dichloropropene
 Concen: 2.845 ug/l
 RT: 9.05 min Scan# 1295
 Delta R.T. 0.01 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

Tgt Ion: 75 Resp: 19
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



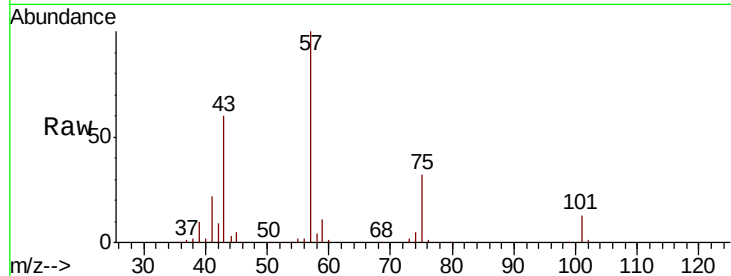


#54

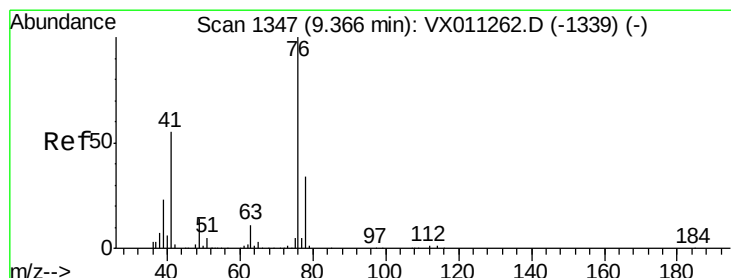
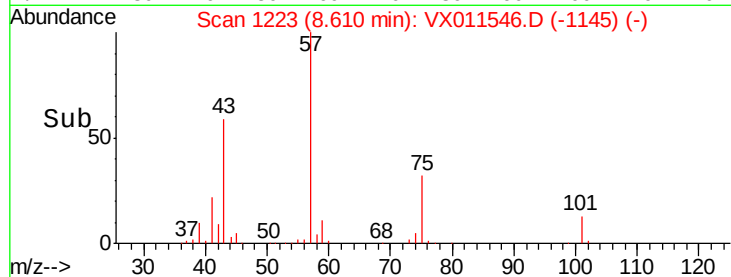
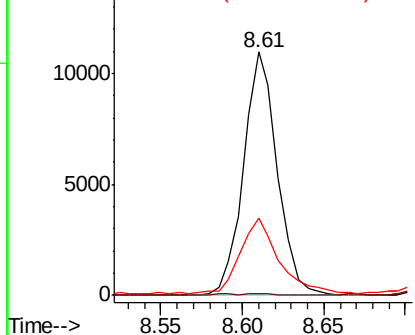
cis-1,3-Dichloropropene
 Concen: 5.634 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

Instrument :
 MSVOA_X
 ClientSampleId :
 R1-R2-A2-(4.3)

Tgt Ion: 75 Resp: 15782
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.0 37.6#
 39 30.9 35.3 52.9#



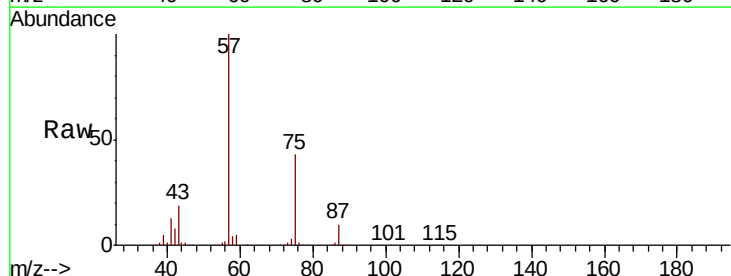
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



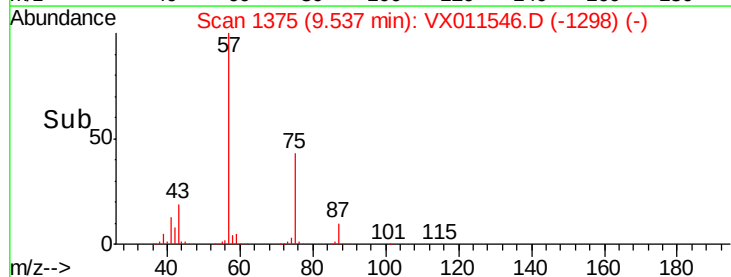
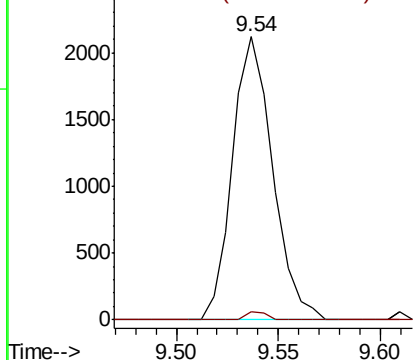
#57

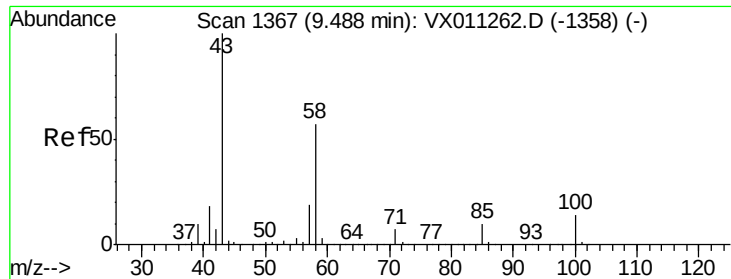
1,3-Dichloropropene
 Concen: 0.898 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011546.D
 Acq: 13 Aug 2019 19:11

Tgt Ion: 76 Resp: 2892
 Ion Ratio Lower Upper
 76 100
 78 1.5 26.6 40.0#



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

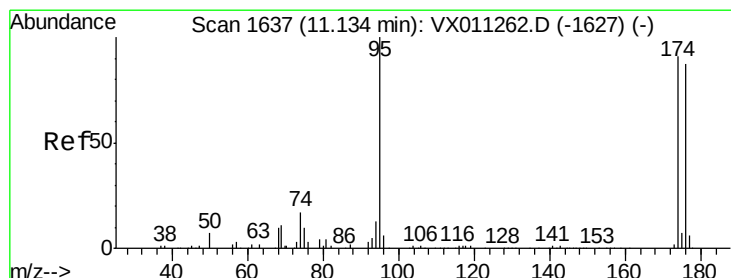
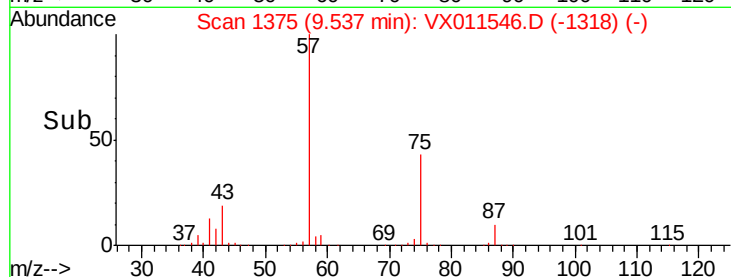
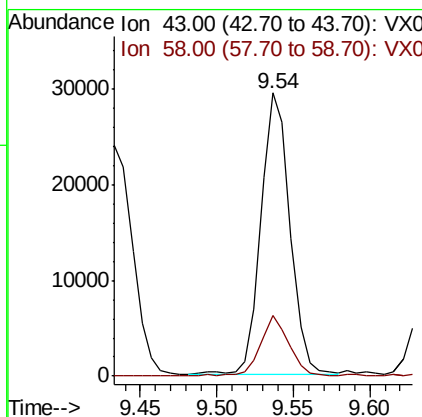
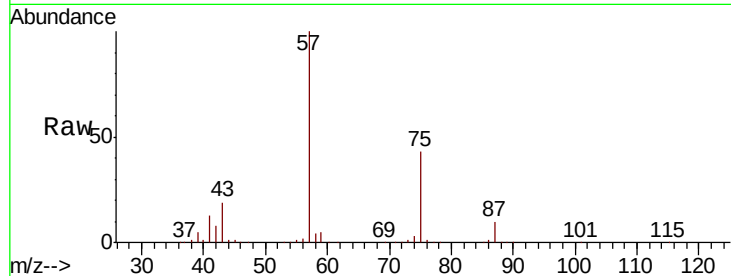




#59
2-Hexanone
Concen: 19.249 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

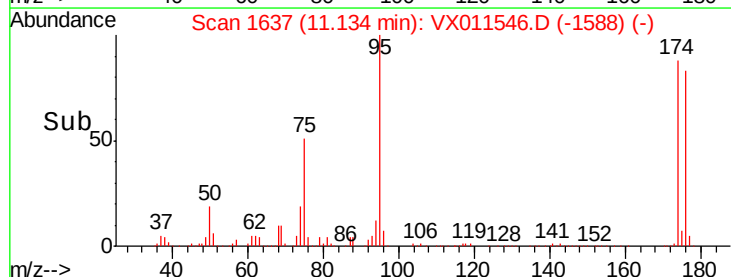
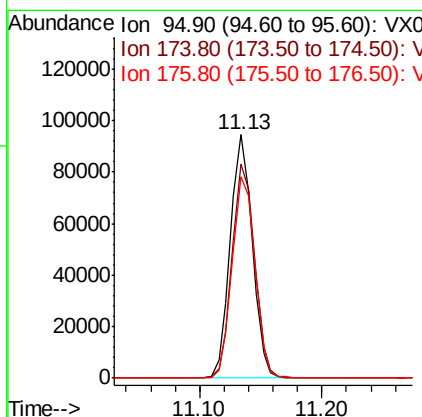
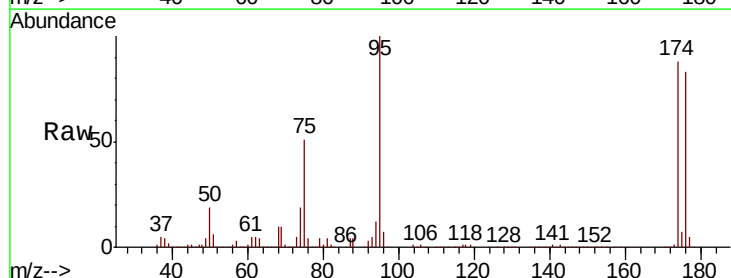
Instrument :
MSVOA_X
ClientSampleId :
R1-R2-A2-(4.3)

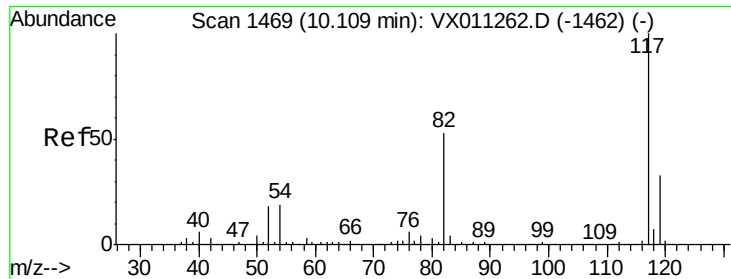
Tgt Ion: 43 Resp: 38740
Ion Ratio Lower Upper
43 100
58 21.5 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 46.410 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

Tgt Ion: 95 Resp: 117419
Ion Ratio Lower Upper
95 100
174 89.8 0.0 191.2
176 85.7 0.0 184.8

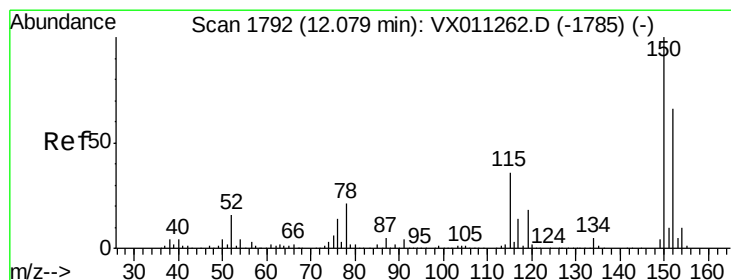
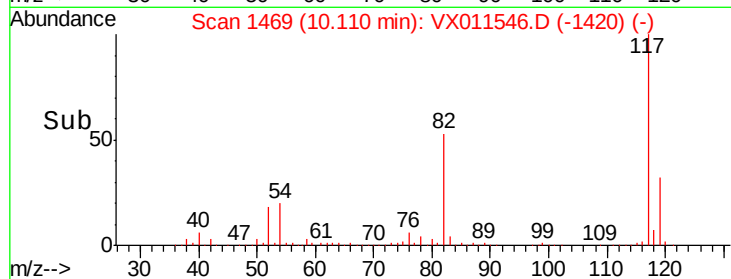
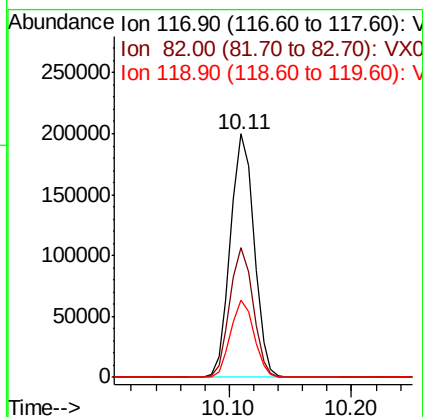
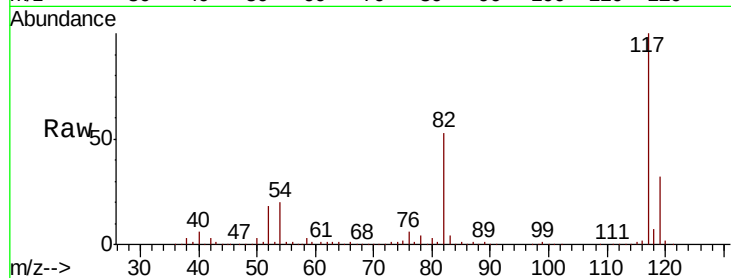




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

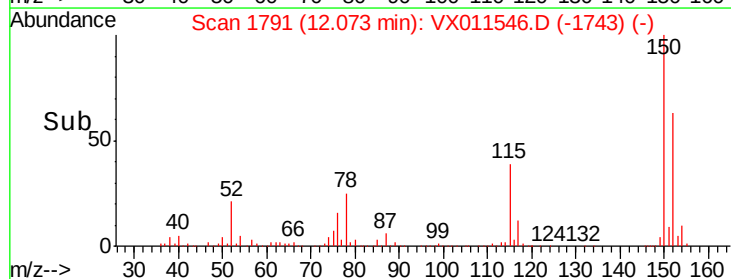
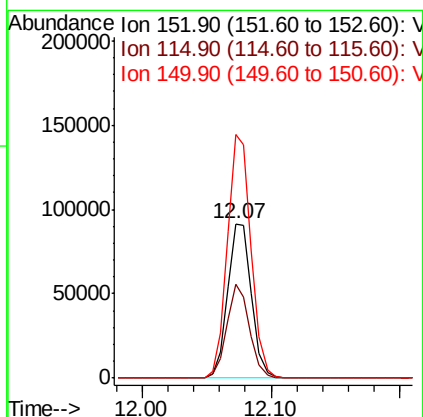
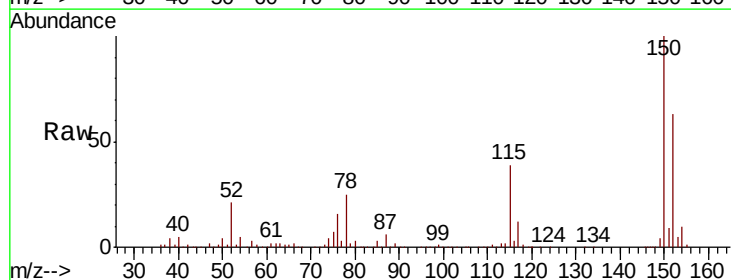
Instrument :
MSVOA_X
ClientSampled :
R1-R2-A2-(4.3)

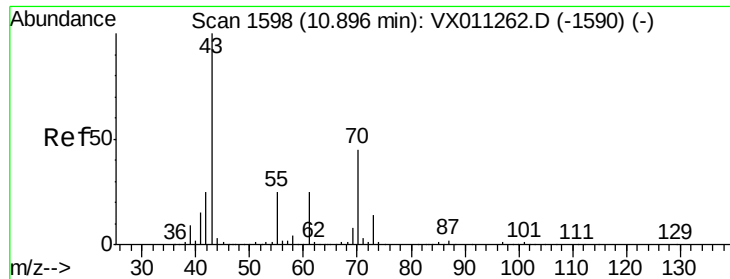
Tgt Ion:117 Resp: 266595
Ion Ratio Lower Upper
117 100
82 53.1 42.2 63.2
119 31.9 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011546.D
Acq: 13 Aug 2019 19:11

Tgt Ion:152 Resp: 119369
Ion Ratio Lower Upper
152 100
115 57.5 40.0 119.9
150 156.0 0.0 350.4





#74

N-amyI acetate

Concen: 0.552 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011546.D

Acq: 13 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-A2-(4.3)

Tgt Ion: 43 Resp: 1627

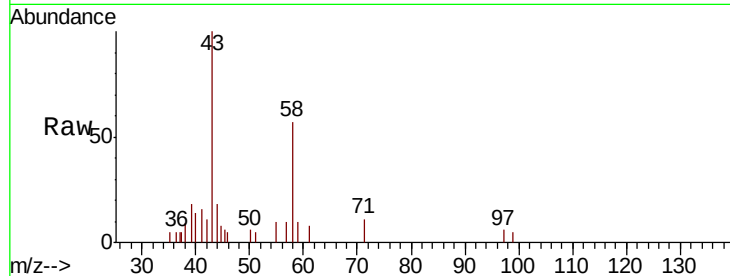
Ion Ratio Lower Upper

43 100

70 0.0 35.9 53.9#

55 13.4 19.8 29.6#

61 0.0 19.7 29.5#

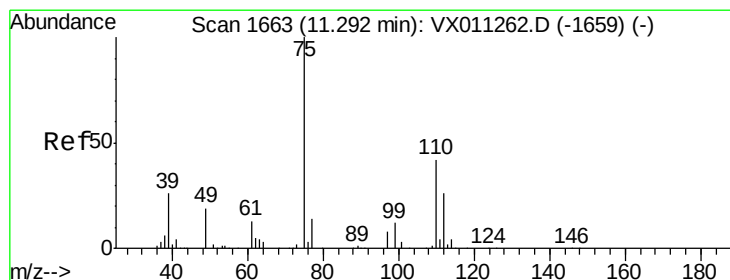
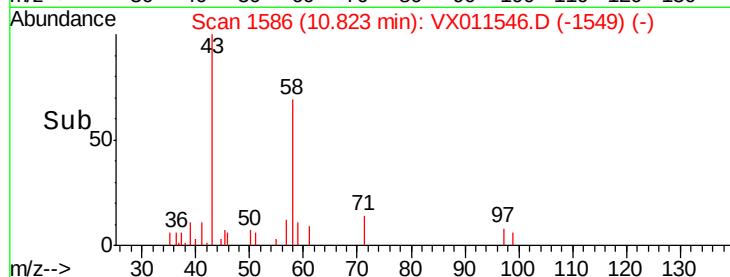
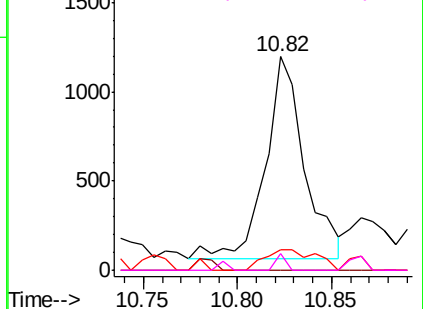


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 27.508 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011546.D

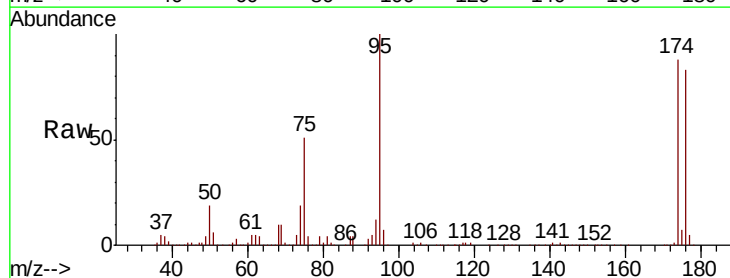
Acq: 13 Aug 2019 19:11

Tgt Ion: 75 Resp: 59799

Ion Ratio Lower Upper

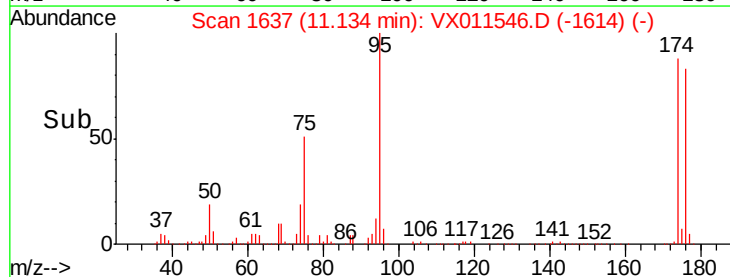
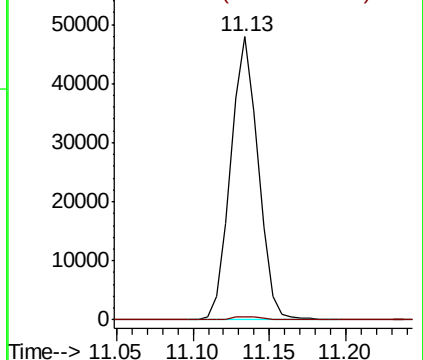
75 100

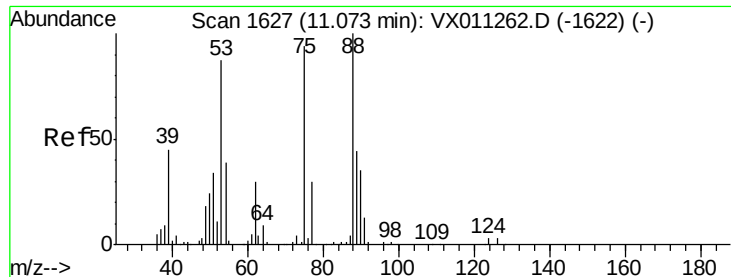
77 1.1 21.1 63.4#



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: 71.331 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011546.D

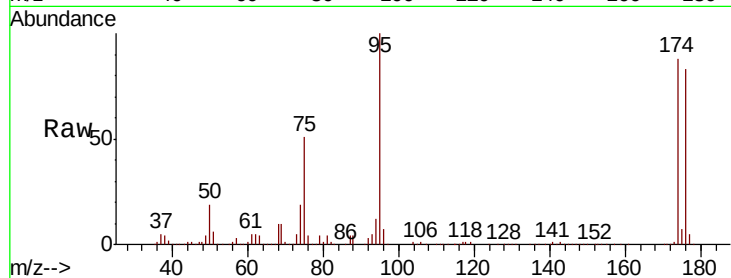
Acq: 13 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-A2-(4.3)



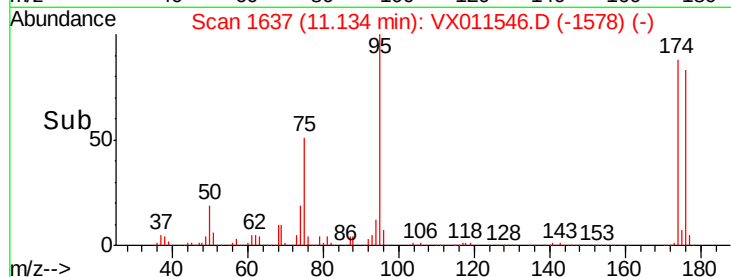
Tgt Ion: 75 Resp: 59799

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



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

