

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011435.D
 Acq On : 11 Aug 2019 16:39
 Operator : JC/SP
 Sample : K4228-34
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-12-(0)

Quant Time: Aug 12 07:49:59 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

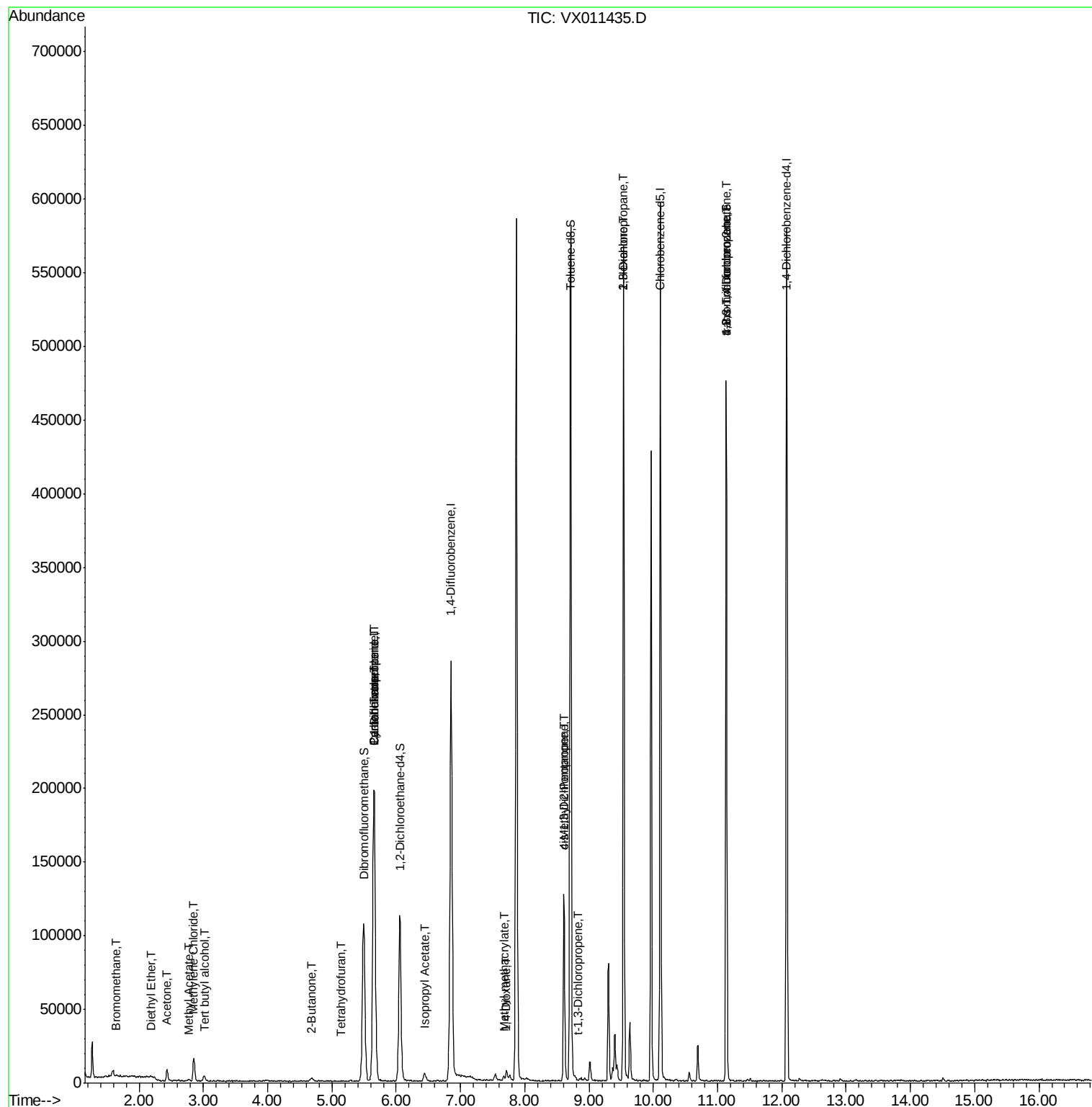
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	197650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	291916	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	266428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	120942	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	105316	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
35) Dibromofluoromethane	5.49	113	90300	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	
50) Toluene-d8	8.71	98	350579	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	
62) 4-Bromofluorobenzene	11.13	95	114935	44.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.50%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.65	94	487	0.362	ug/l	91
6) Chloroethane	1.71	64	102	Below Cal	#	43
8) Diethyl Ether	2.18	74	511	0.427	ug/l	57
11) Tert butyl alcohol	3.01	59	2323	5.875	ug/l #	72
16) Acetone	2.43	43	7931	8.371	ug/l	90
18) Methyl Acetate	2.78	43	1501	0.693	ug/l	94
20) Methylene Chloride	2.85	84	7673	3.698	ug/l #	91
25) 2-Butanone	4.68	43	335	0.249	ug/l #	58
29) Tetrahydrofuran	5.15	42	551	0.667	ug/l #	38
31) Cyclohexane	5.65	56	3878	1.513	ug/l #	26
36) 1,1-Dichloropropene	5.65	75	13389	5.253	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18328	7.148	ug/l #	14
43) Isopropyl Acetate	6.44	43	7647	1.871	ug/l	96
48) Methyl methacrylate	7.68	41	3908	2.032	ug/l #	10
49) 1,4-Dioxane	7.70	88	21	0.377	ug/l #	29
51) 4-Methyl-2-Pentanone	8.61	43	39943	15.143	ug/l #	48
53) t-1,3-Dichloropropene	8.83	75	22	2.846	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20120	7.075	ug/l #	69
57) 1,3-Dichloropropane	9.54	76	4590	1.404	ug/l #	42
59) 2-Hexanone	9.54	43	63852	31.252	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	59617	27.068	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	59617	70.261	ug/l #	10

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

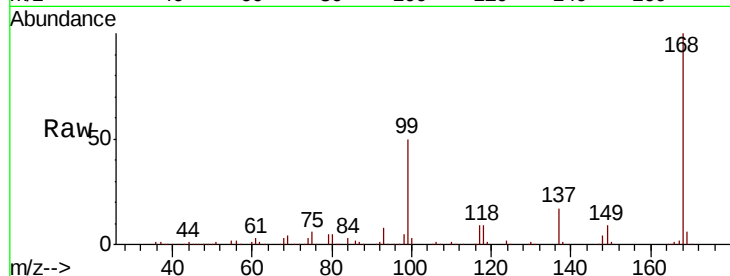
2S-12-(0)

Tgt Ion:168 Resp: 197650

Ion Ratio Lower Upper

168 100

99 50.2 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

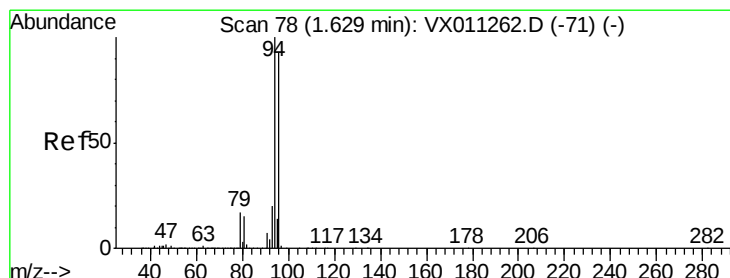
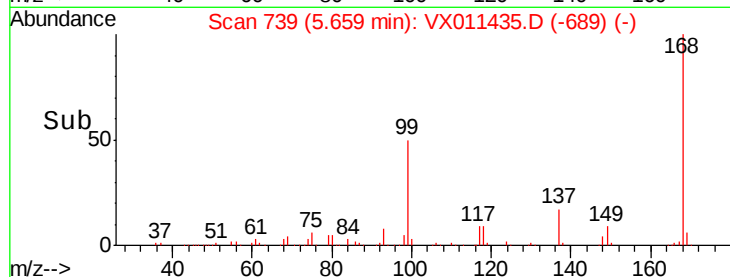
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.362 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011435.D

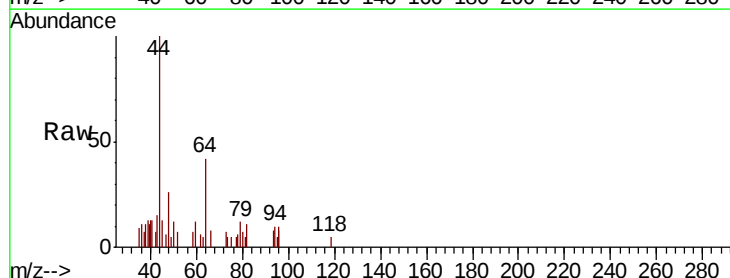
Acq: 11 Aug 2019 16:39

Tgt Ion: 94 Resp: 487

Ion Ratio Lower Upper

94 100

96 101.9 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

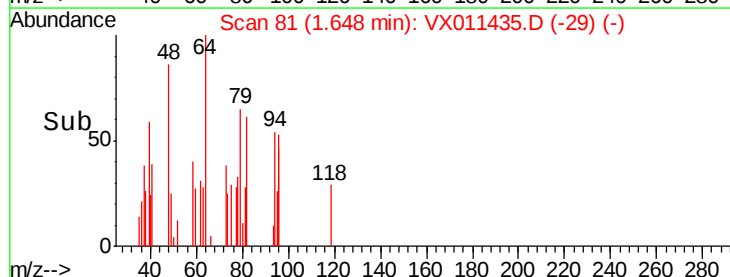
100

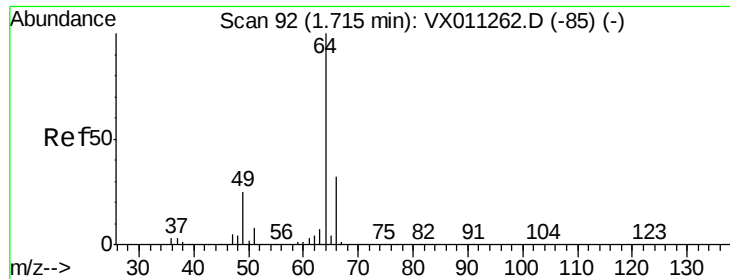
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

Instrument :

MSVOA_X

ClientSampled :

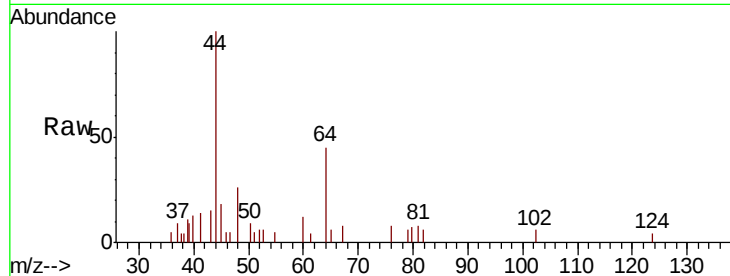
2S-12-(0)

Tgt Ion: 64 Resp: 102

Ion Ratio Lower Upper

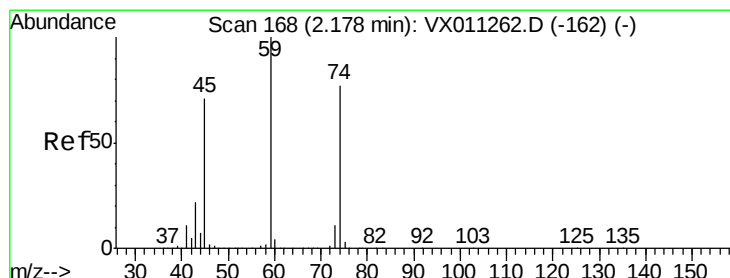
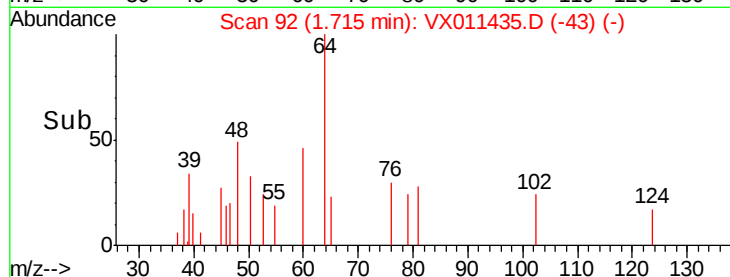
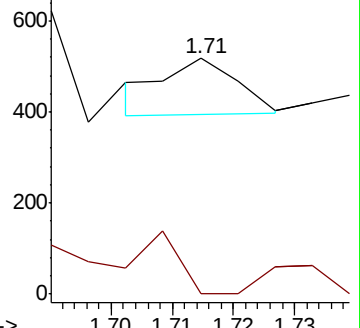
64 100

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



#8

Diethyl Ether

Concen: 0.427 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011435.D

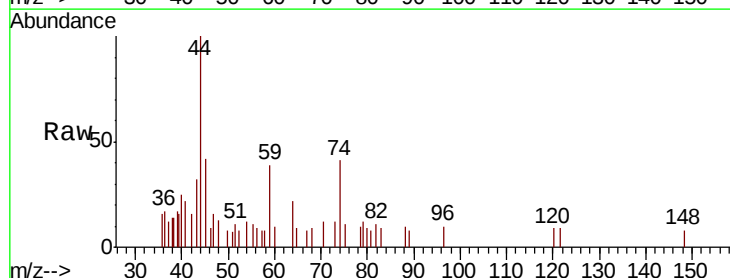
Acq: 11 Aug 2019 16:39

Tgt Ion: 74 Resp: 511

Ion Ratio Lower Upper

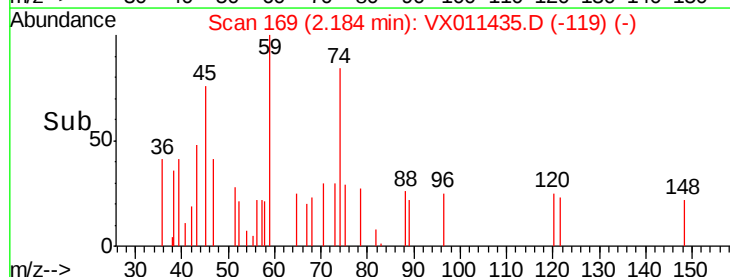
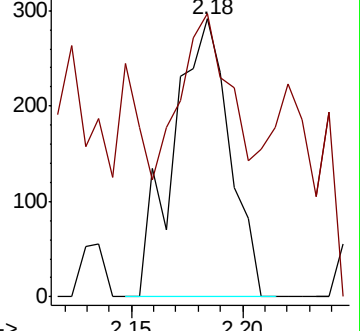
74 100

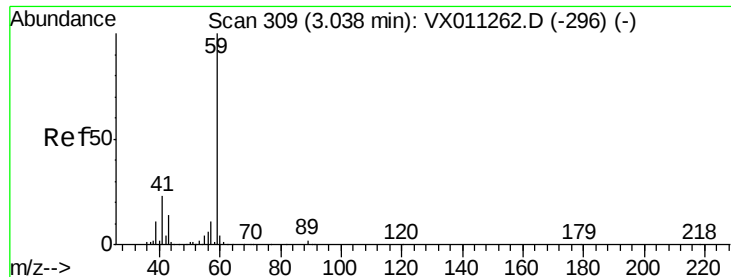
45 50.7 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

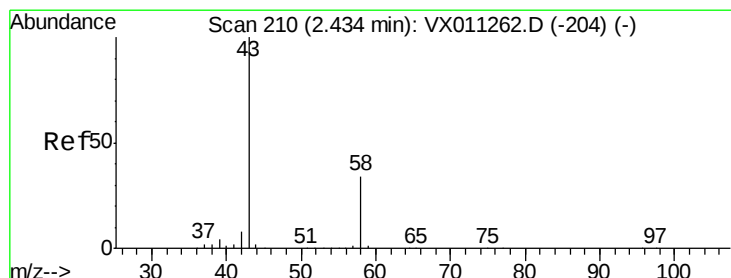
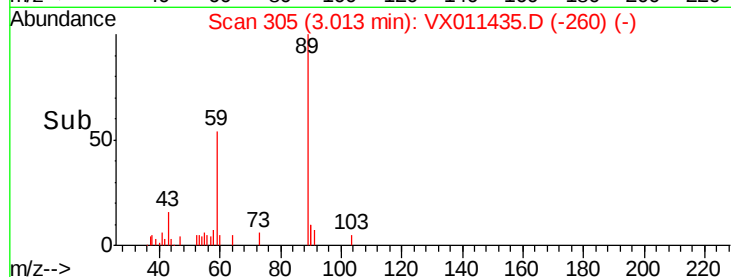
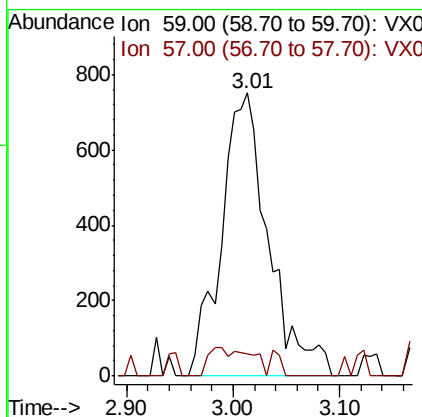
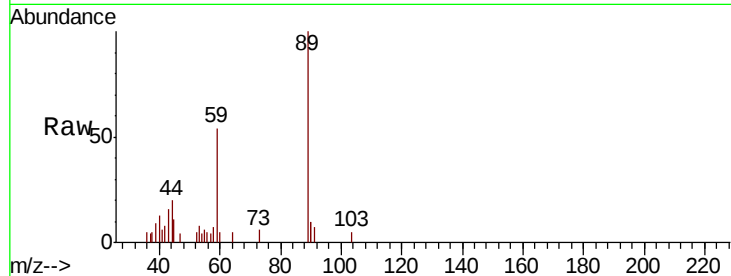




#11
Tert butyl alcohol
Concen: 5.875 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

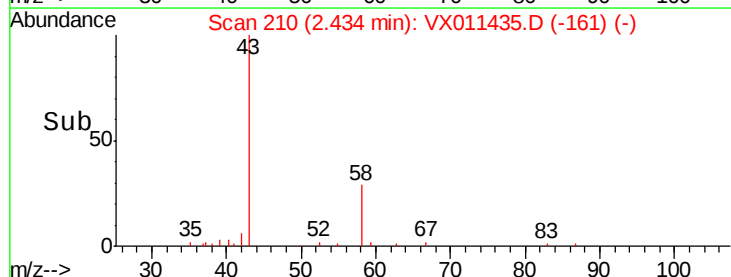
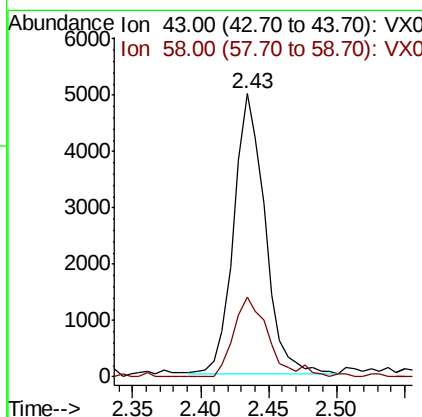
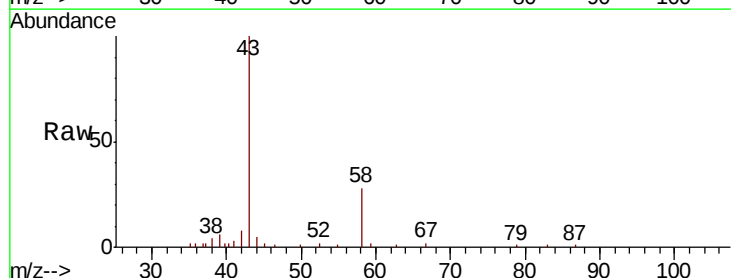
Instrument :
MSVOA_X
ClientSampleId :
2S-12-(0)

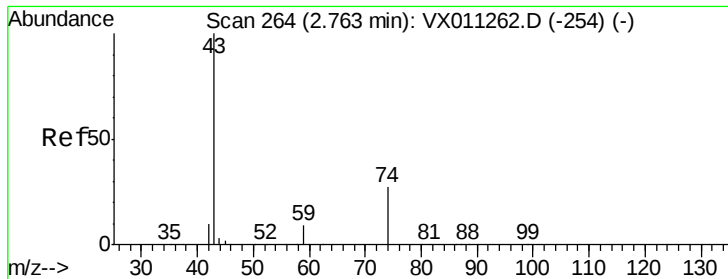
Tgt Ion: 59 Resp: 2323
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 8.371 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Tgt Ion: 43 Resp: 7931
Ion Ratio Lower Upper
43 100
58 28.4 27.4 41.0

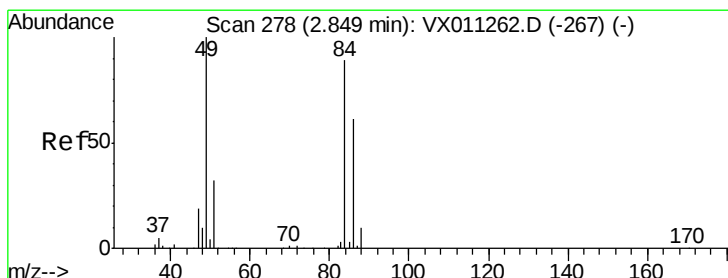
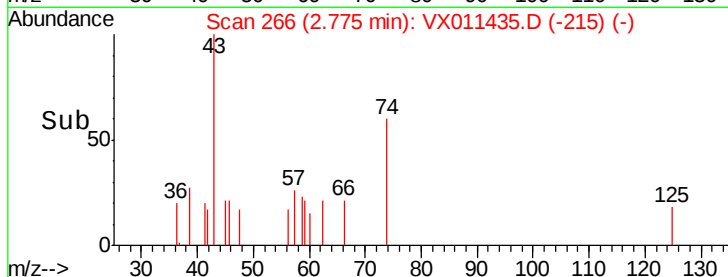
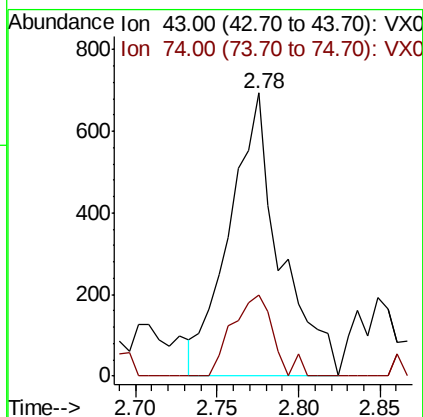
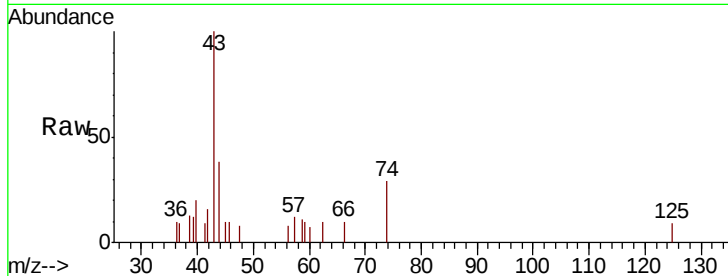




#18
Methyl Acetate
Concen: 0.693 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

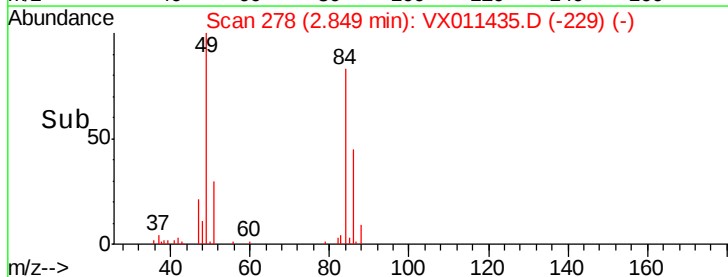
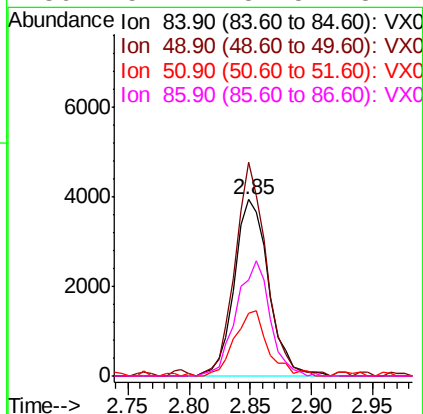
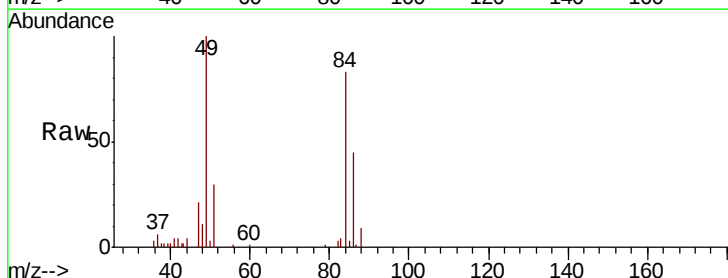
Instrument :
MSVOA_X
ClientSampleId :
2S-12-(0)

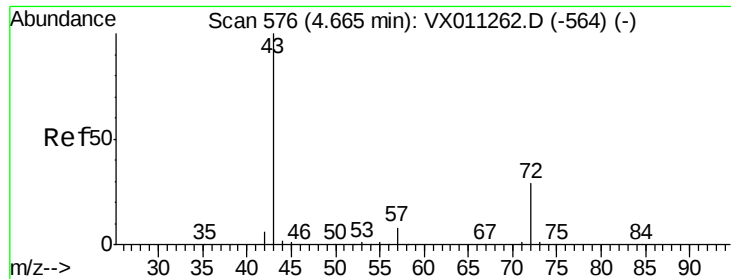
Tgt Ion: 43 Resp: 1501
Ion Ratio Lower Upper
43 100
74 23.5 21.0 31.6



#20
Methylene Chloride
Concen: 3.698 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Tgt Ion: 84 Resp: 7673
Ion Ratio Lower Upper
84 100
49 119.6 89.3 133.9
51 34.5 28.3 42.5
86 54.4 54.5 81.7#





#25

2-Butanone

Concen: 0.249 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

Instrument :

MSVOA_X

ClientSampled :

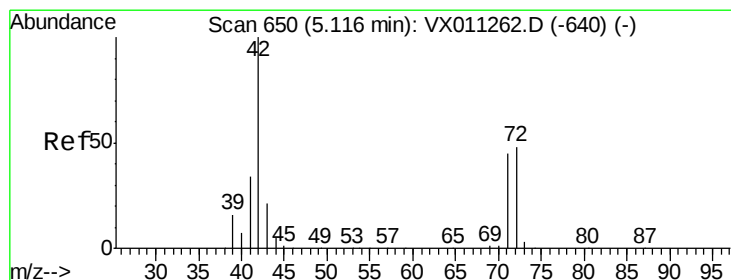
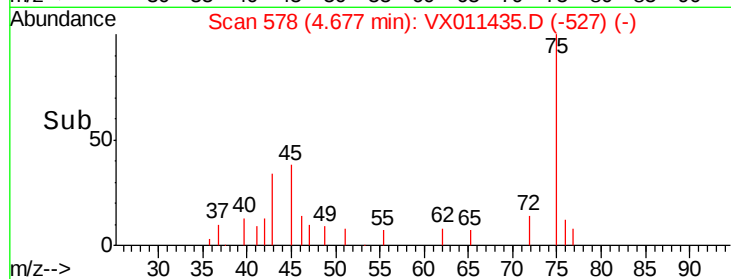
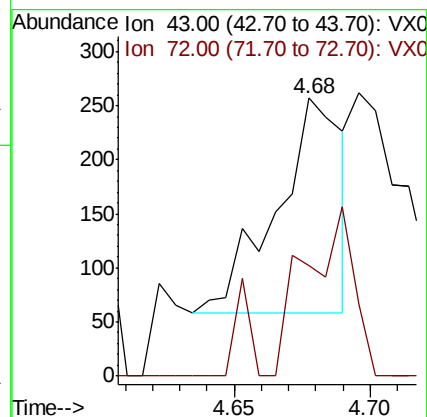
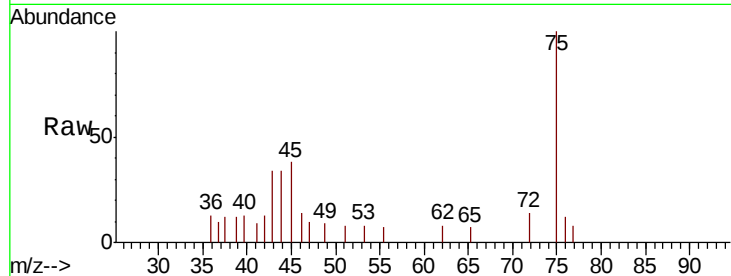
2S-12-(0)

Tgt Ion: 43 Resp: 335

Ion Ratio Lower Upper

43 100

72 51.3 23.2 34.8#



#29

Tetrahydrofuran

Concen: 0.667 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.03 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

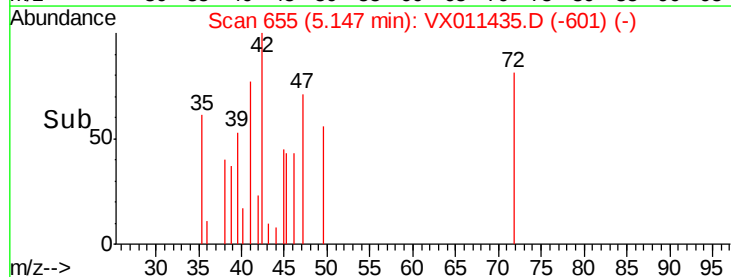
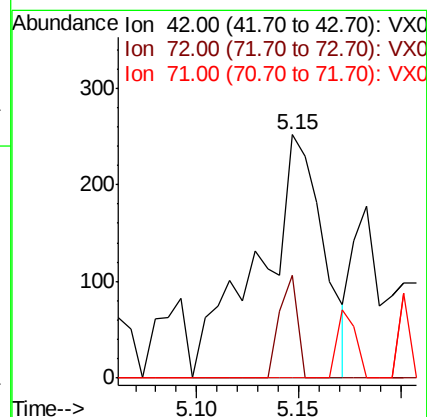
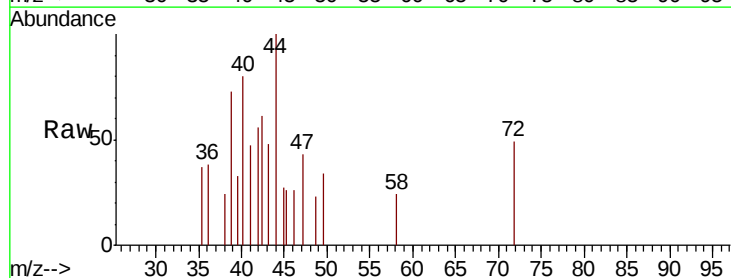
Tgt Ion: 42 Resp: 551

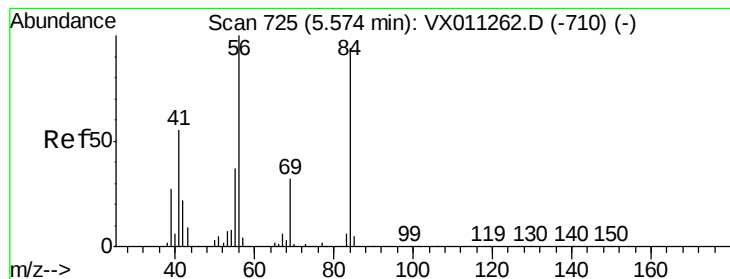
Ion Ratio Lower Upper

42 100

72 11.6 39.9 59.9#

71 0.0 36.9 55.3#





#31

Cyclohexane

Concen: 1.513 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

2S-12-(0)

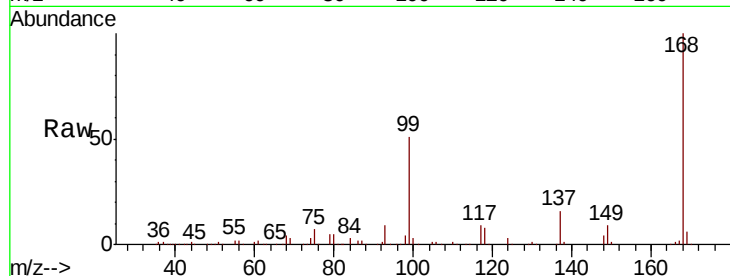
Tgt Ion: 56 Resp: 3878

Ion Ratio Lower Upper

56 100

69 142.3 25.5 38.3#

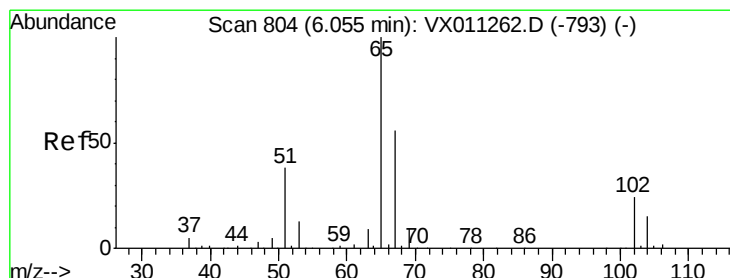
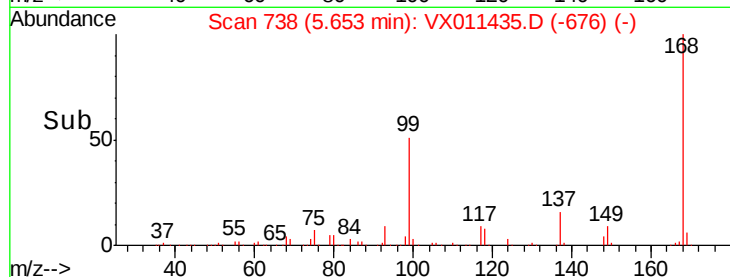
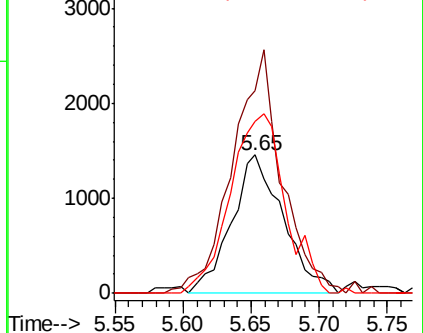
84 124.6 75.0 112.4#



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: 52.911 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011435.D

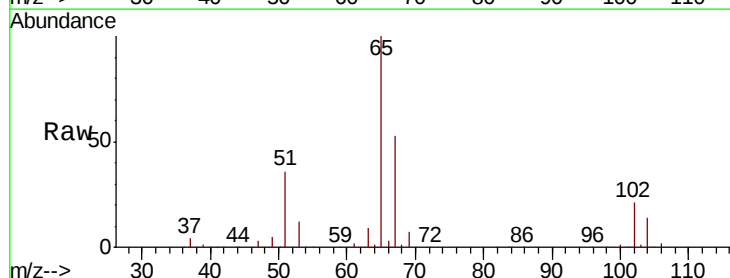
Acq: 11 Aug 2019 16:39

Tgt Ion: 65 Resp: 105316

Ion Ratio Lower Upper

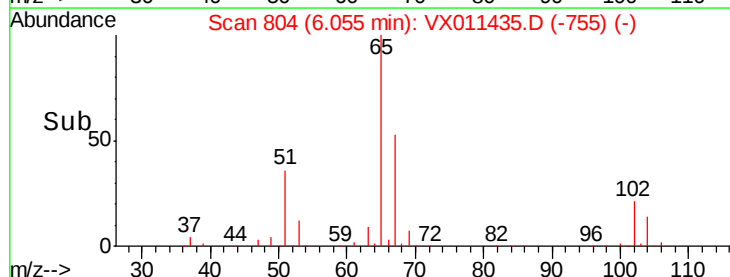
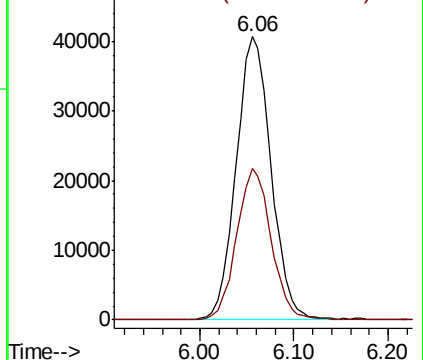
65 100

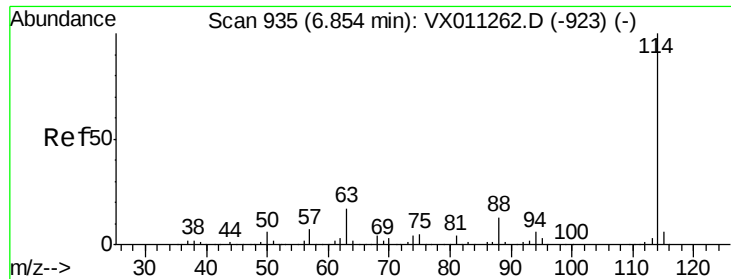
67 52.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

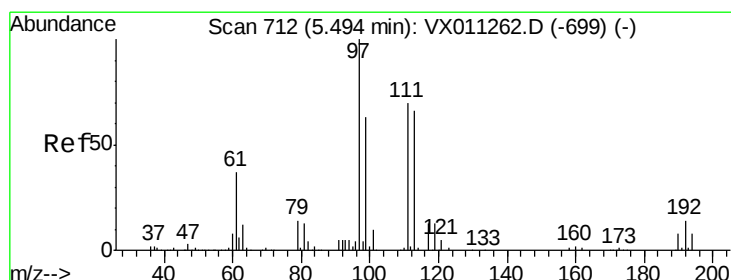
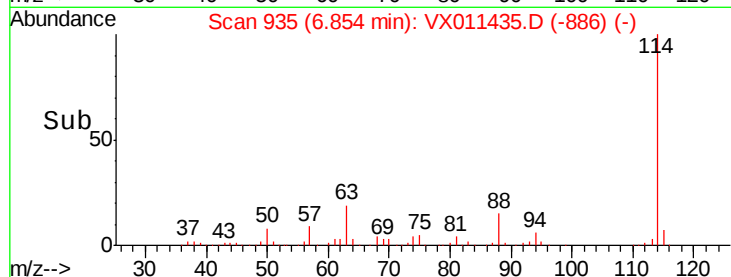
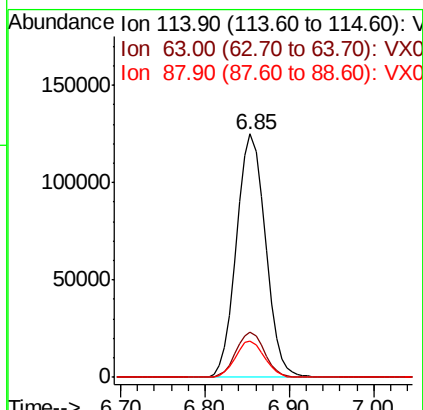
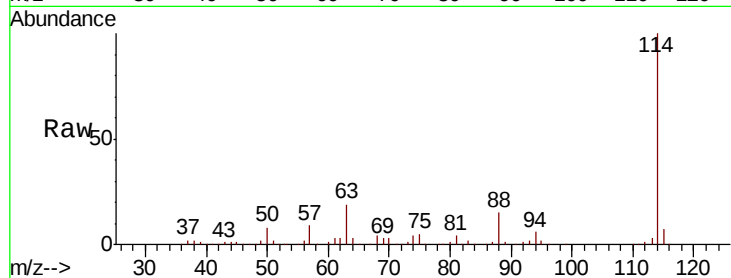




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011435.D
 Acq: 11 Aug 2019 16:39

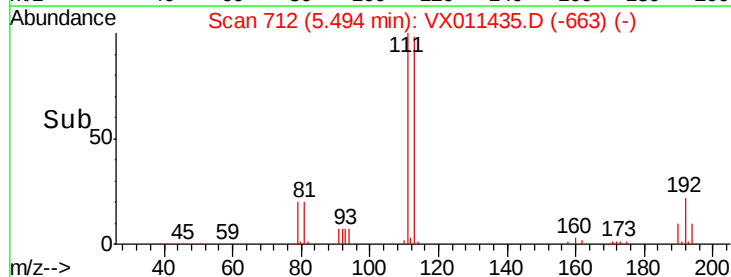
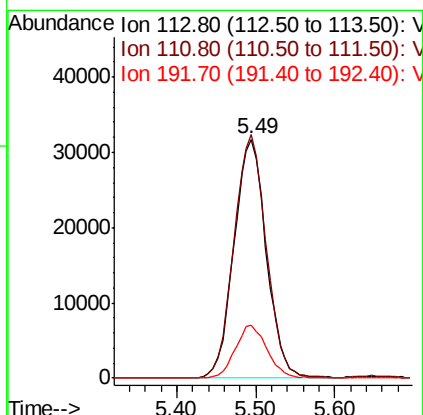
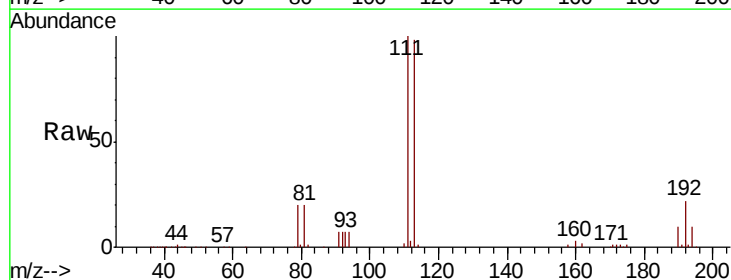
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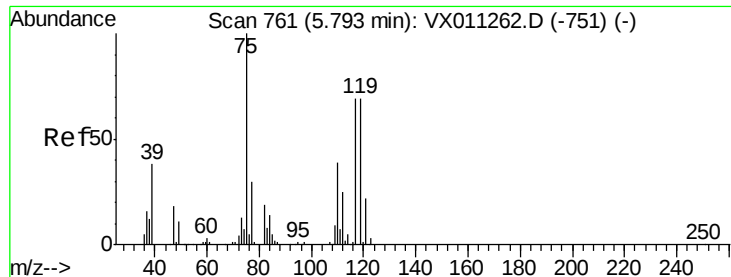
Tgt Ion:114 Resp: 291916
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 34.0
 88 14.8 0.0 26.4



#35
 Dibromofluoromethane
 Concen: 47.380 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011435.D
 Acq: 11 Aug 2019 16:39

Tgt Ion:113 Resp: 90300
 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: 5.253 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

2S-12-(0)

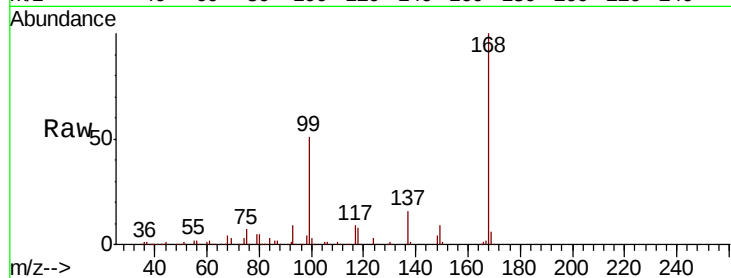
Tgt Ion: 75 Resp: 13389

Ion Ratio Lower Upper

75 100

110 12.4 20.0 59.9#

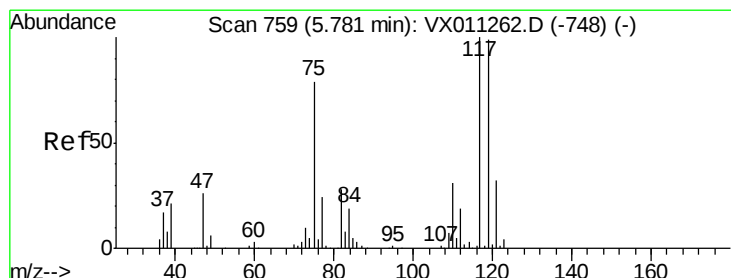
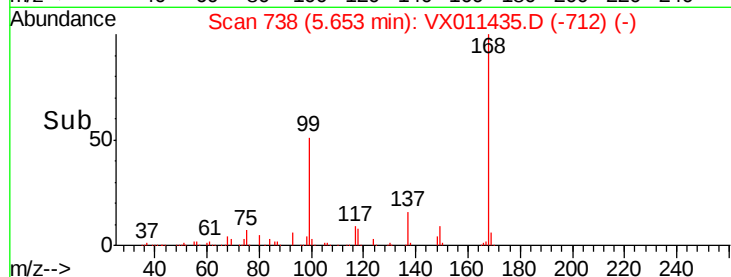
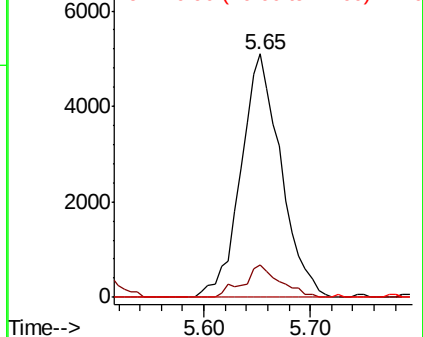
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.148 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

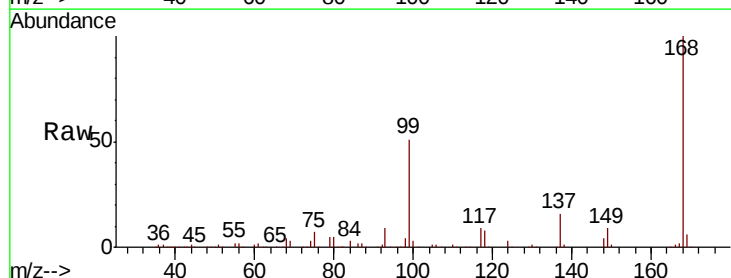
Tgt Ion: 117 Resp: 18328

Ion Ratio Lower Upper

117 100

119 4.4 79.0 118.4#

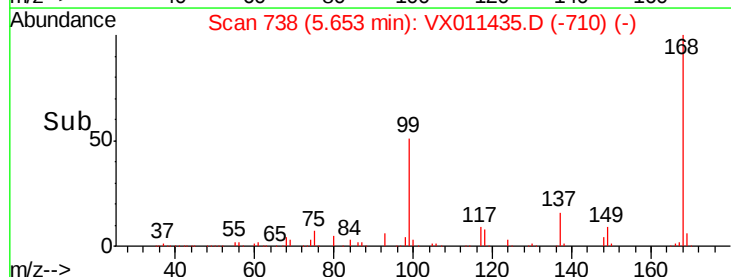
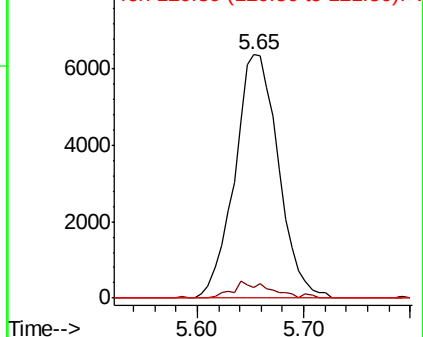
121 0.0 25.9 38.9#

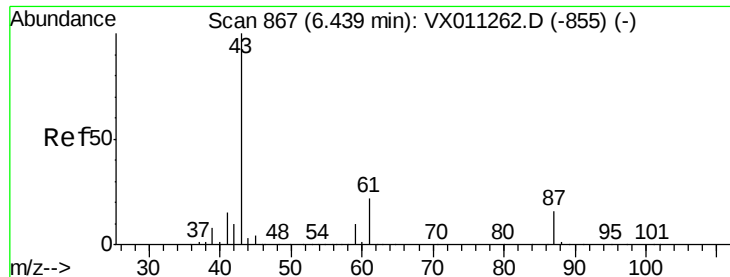


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.871 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

2S-12-(0)

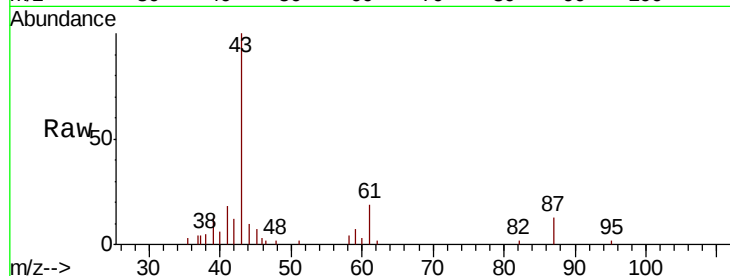
Tgt Ion: 43 Resp: 7647

Ion Ratio Lower Upper

43 100

61 23.9 16.5 24.7

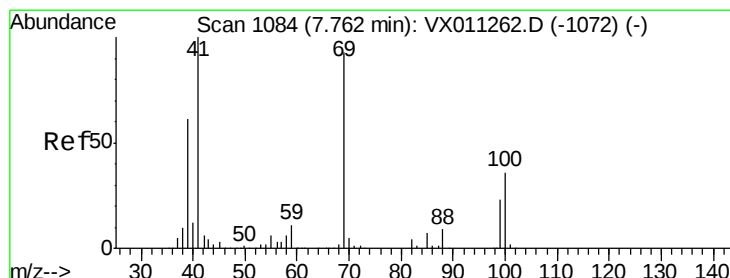
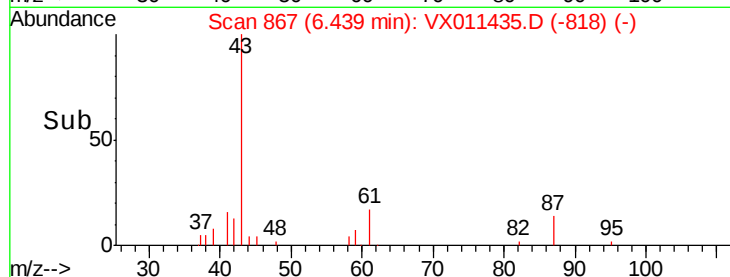
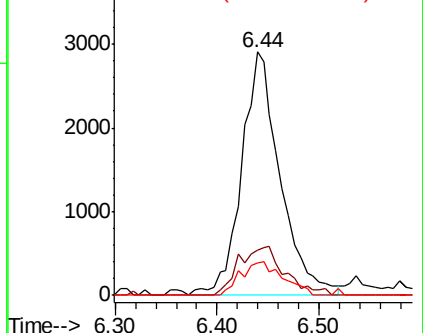
87 15.1 12.1 18.1



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: 2.032 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011435.D

Acq: 11 Aug 2019 16:39

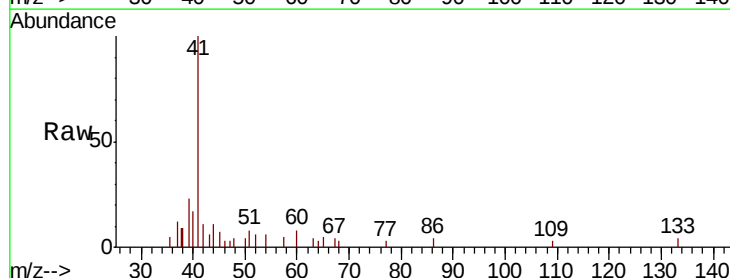
Tgt Ion: 41 Resp: 3908

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

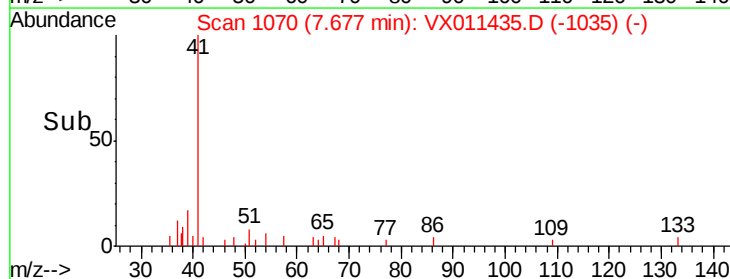
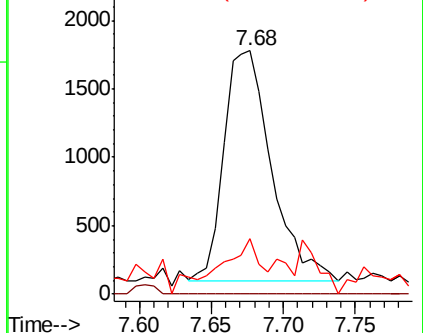
39 0.0 48.6 72.8#

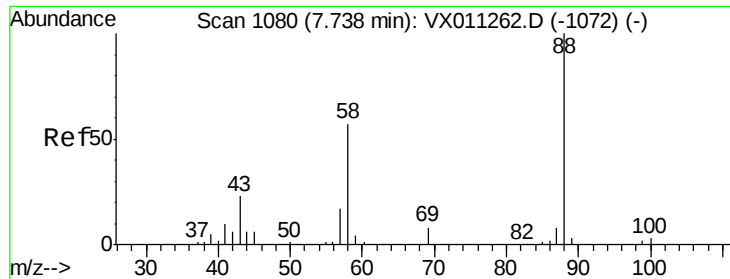


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

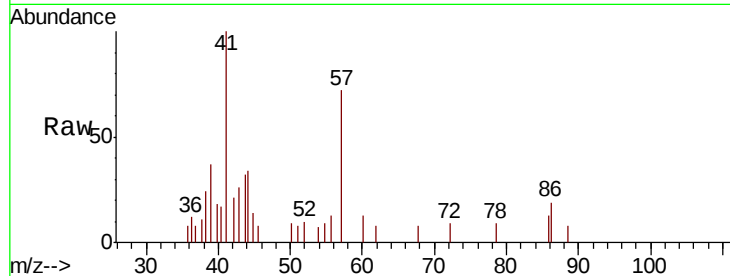




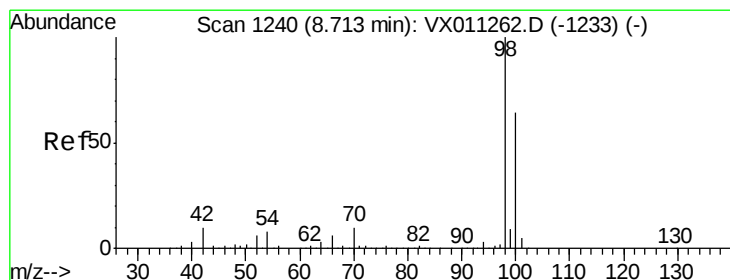
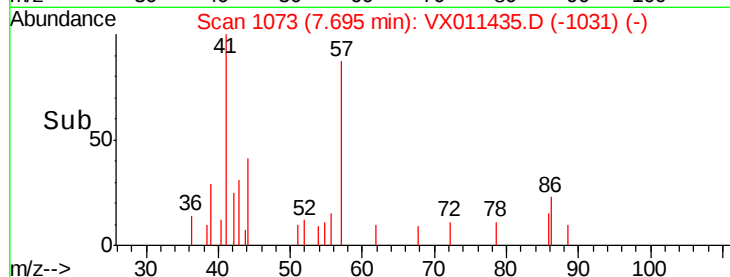
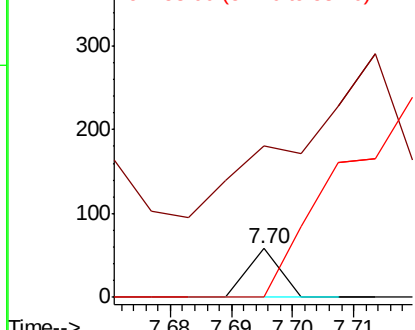
#49
1,4-Dioxane
Concen: 0.377 ug/l
RT: 7.70 min Scan# 1073
Delta R.T. -0.04 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Instrument :
MSVOA_X
ClientSampleId :
2S-12-(0)

Tgt Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 0.0 47.8 71.8#

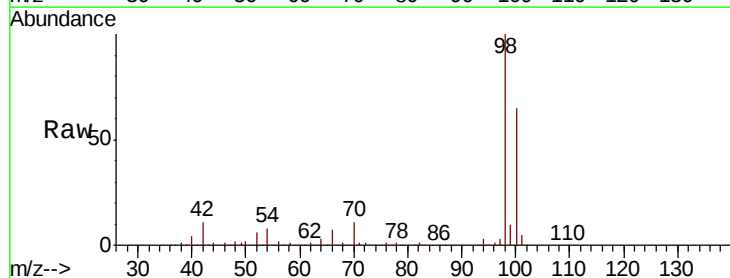


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

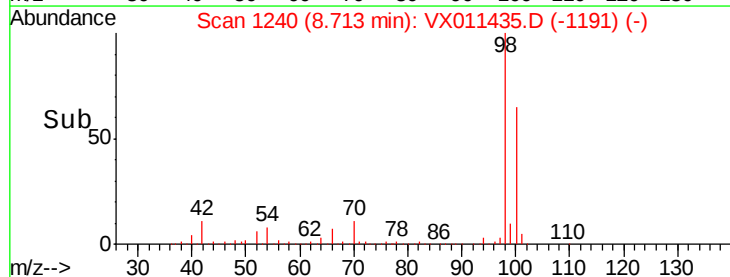
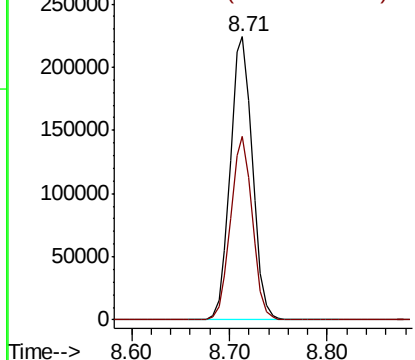


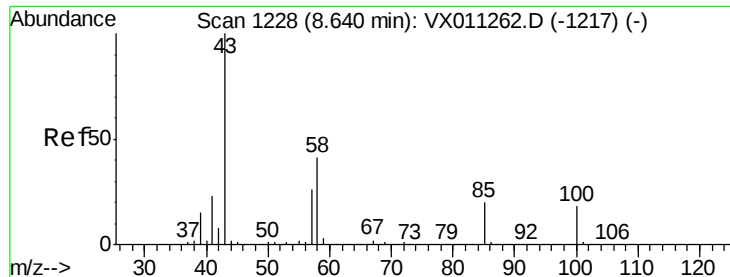
#50
Toluene-d8
Concen: 48.732 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Tgt Ion: 98 Resp: 350579
Ion Ratio Lower Upper
98 100
100 63.9 51.7 77.5



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

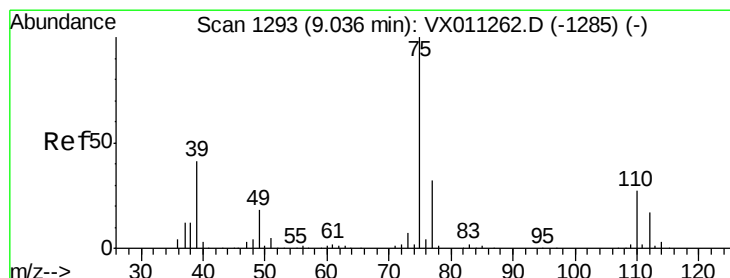
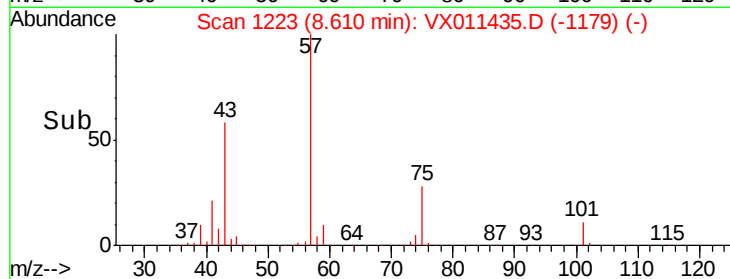
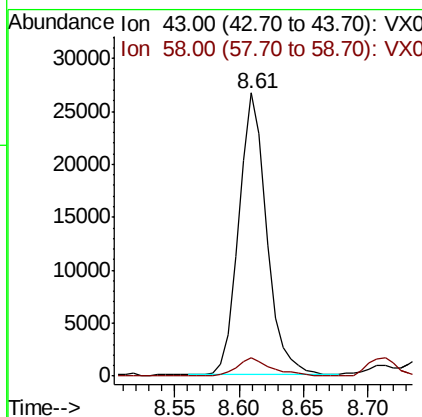
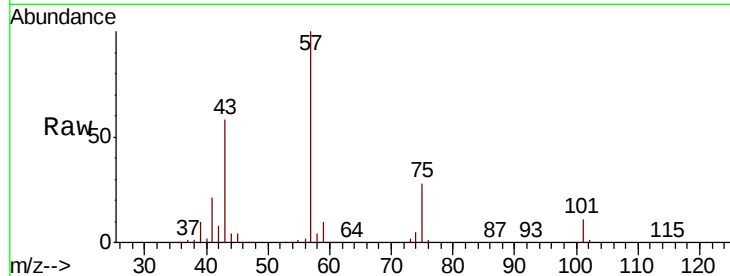




#51
 4-Methyl-2-Pentanone
 Concen: 15.143 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011435.D
 Acq: 11 Aug 2019 16:39

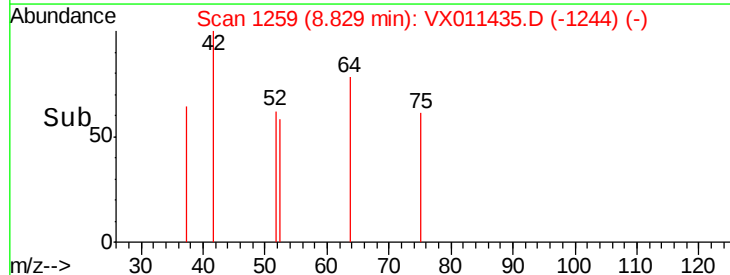
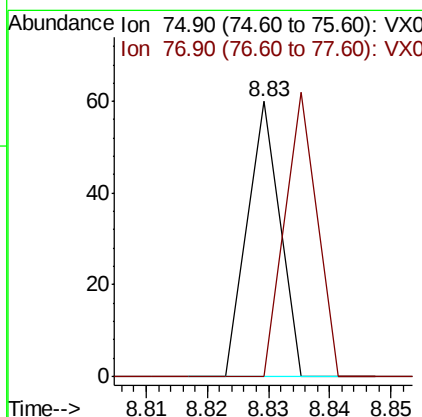
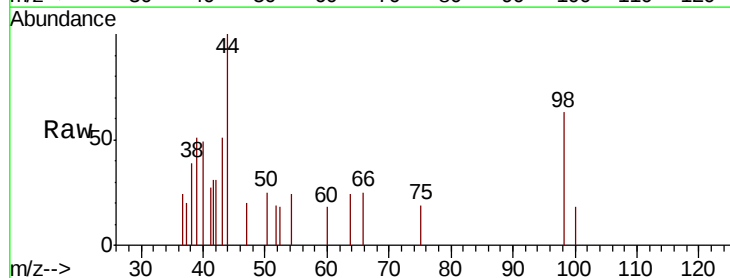
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-12-(0)

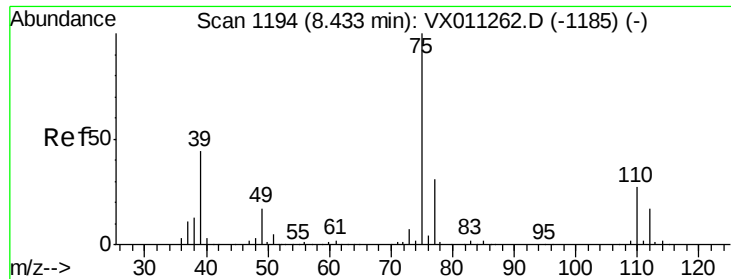
Tgt Ion: 43 Resp: 39943
 Ion Ratio Lower Upper
 43 100
 58 8.2 32.3 48.5#



#53
 t-1,3-Dichloropropene
 Concen: 2.846 ug/l
 RT: 8.83 min Scan# 1259
 Delta R.T. -0.21 min
 Lab File: VX011435.D
 Acq: 11 Aug 2019 16:39

Tgt Ion: 75 Resp: 22
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



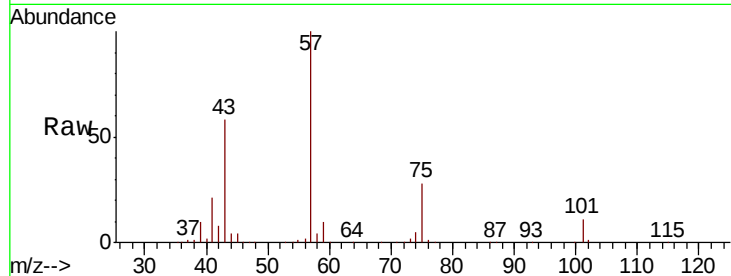


#54

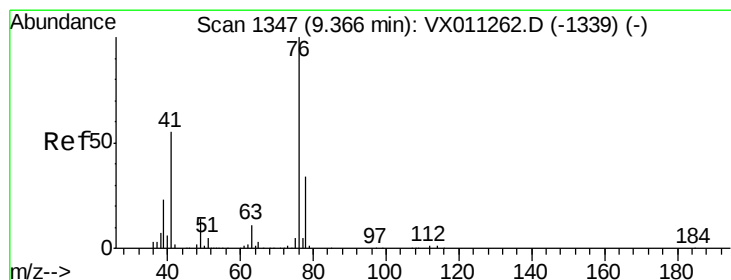
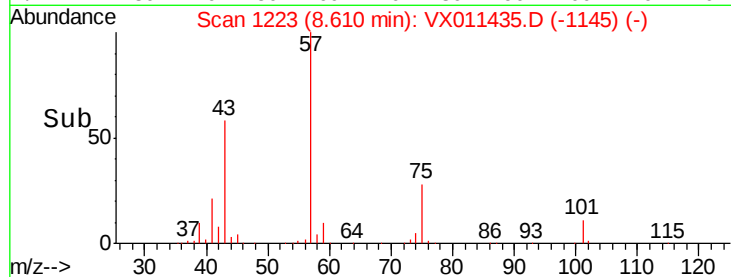
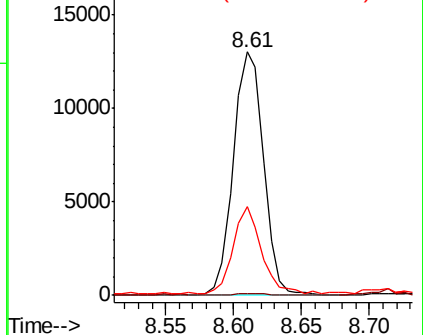
cis-1,3-Dichloropropene
Concen: 7.075 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. 0.18 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Instrument :
MSVOA_X
ClientSampleId :
2S-12-(0)

Tgt Ion: 75 Resp: 20120
Ion Ratio Lower Upper
75 100
77 0.8 25.0 37.6#
39 35.2 35.3 52.9#



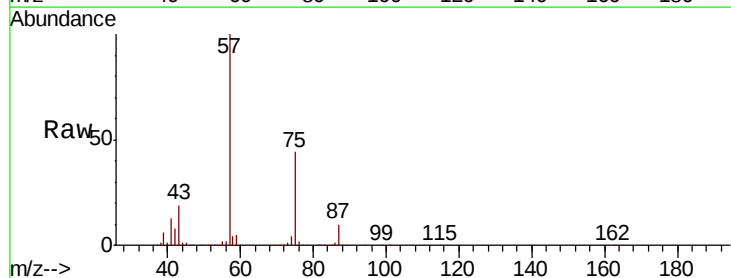
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



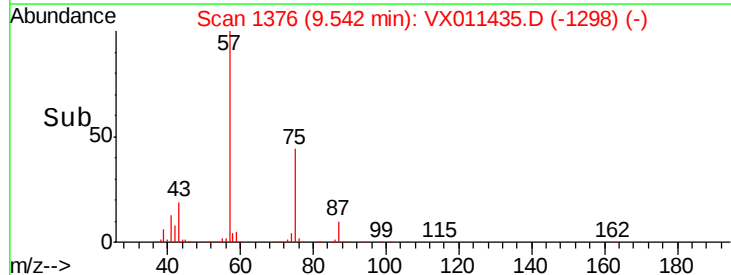
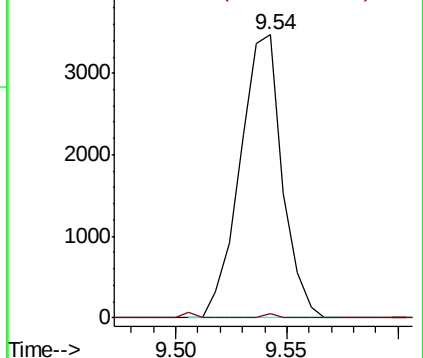
#57

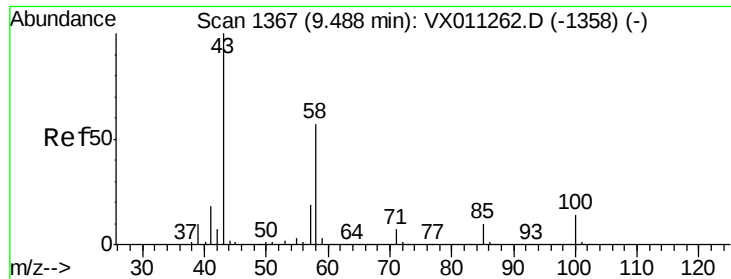
1,3-Dichloropropane
Concen: 1.404 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.18 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Tgt Ion: 76 Resp: 4590
Ion Ratio Lower Upper
76 100
78 0.4 26.6 40.0#



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

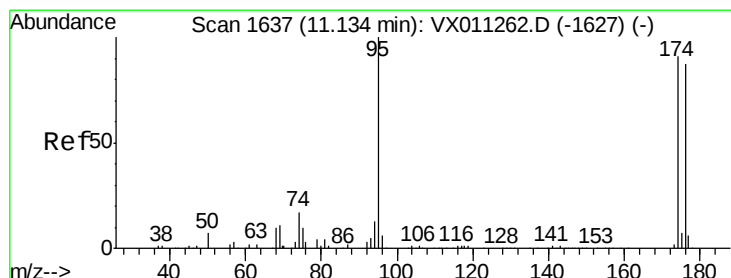
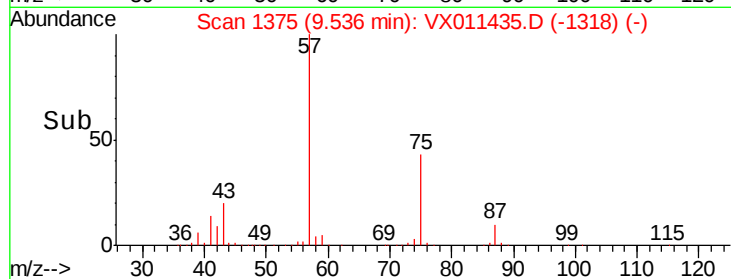
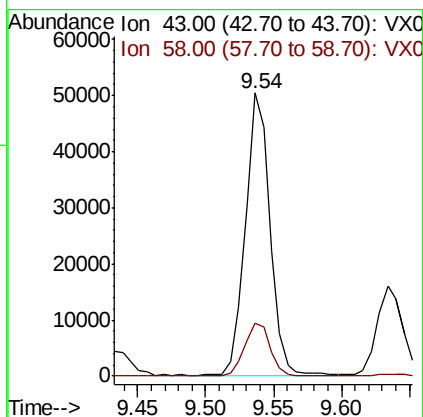
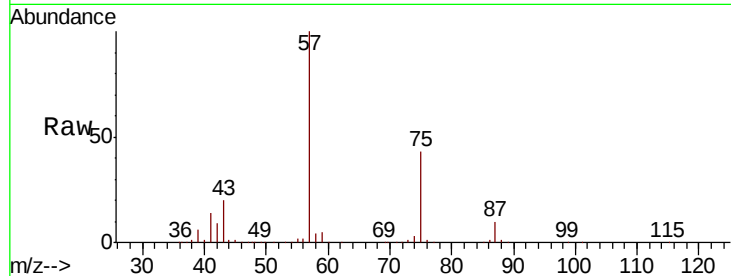




#59
2-Hexanone
Concen: 31.252 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

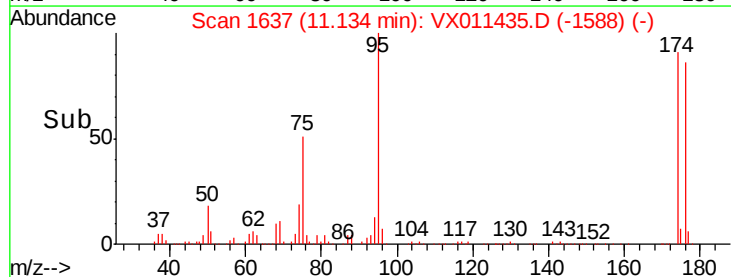
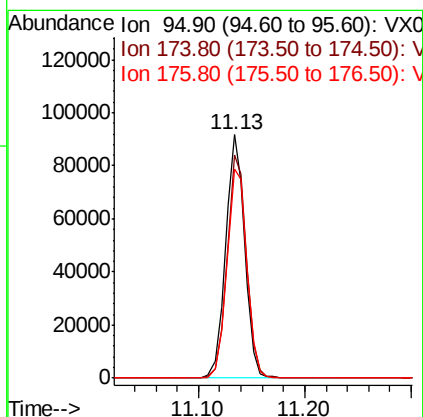
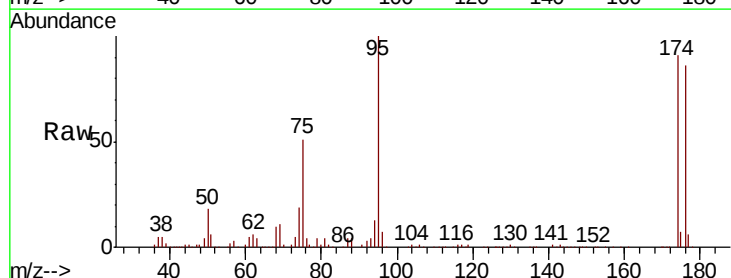
Instrument :
MSVOA_X
ClientSampleId :
2S-12-(0)

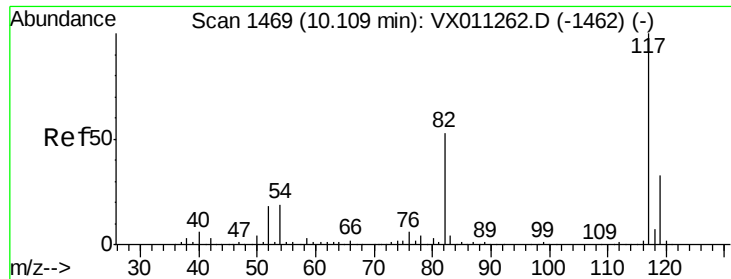
Tgt Ion: 43 Resp: 63852
Ion Ratio Lower Upper
43 100
58 20.2 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 44.748 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Tgt Ion: 95 Resp: 114935
Ion Ratio Lower Upper
95 100
174 93.1 0.0 191.2
176 89.8 0.0 184.8

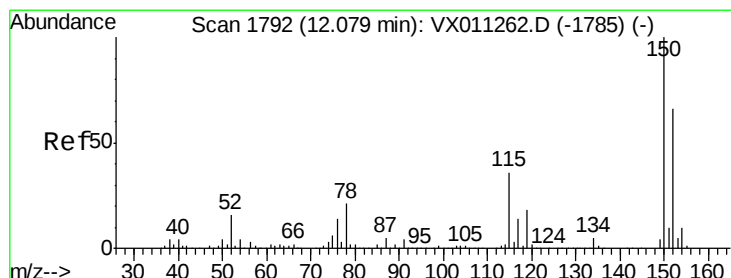
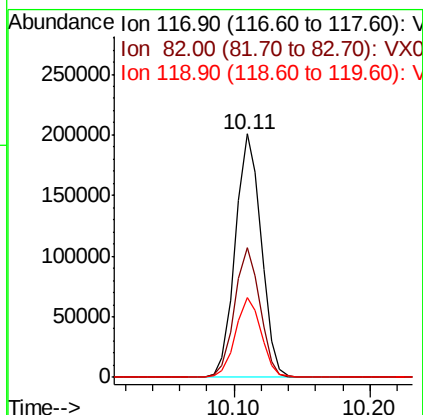
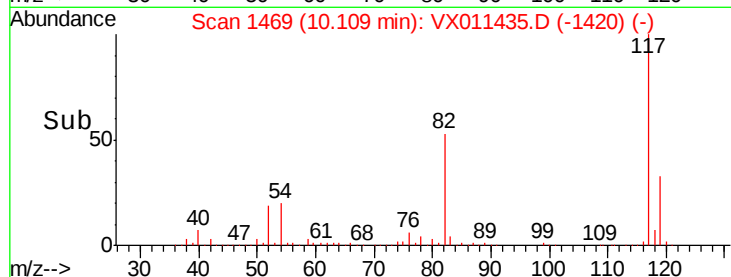
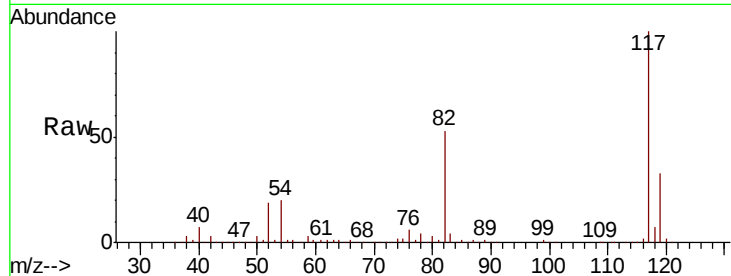




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

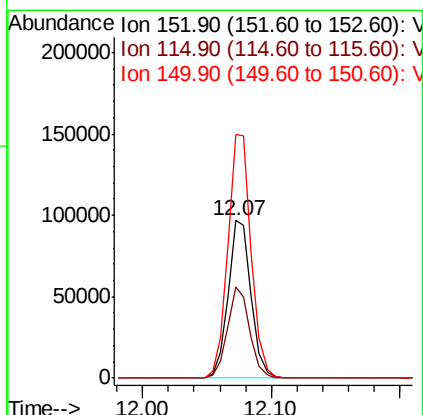
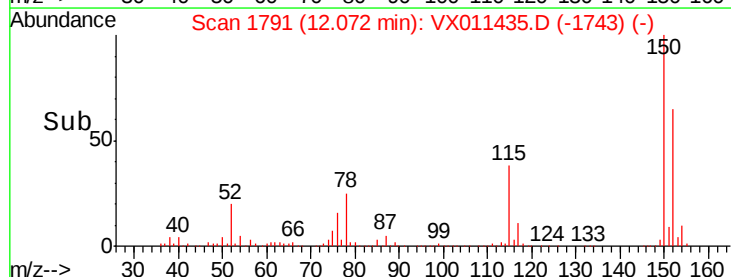
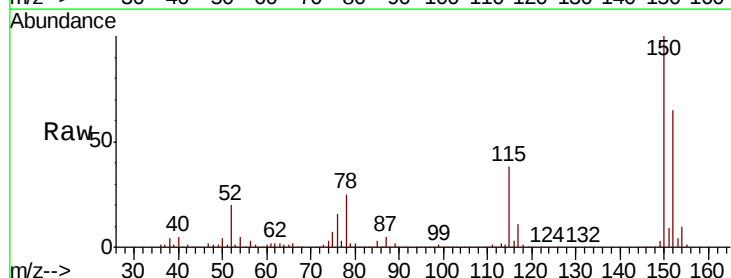
Instrument :
MSVOA_X
ClientSampled :
2S-12-(0)

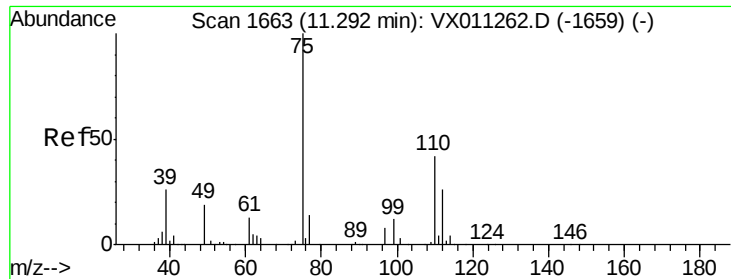
Tgt Ion:117 Resp: 266428
Ion Ratio Lower Upper
117 100
82 53.4 42.2 63.2
119 32.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011435.D
Acq: 11 Aug 2019 16:39

Tgt Ion:152 Resp: 120942
Ion Ratio Lower Upper
152 100
115 56.1 40.0 119.9
150 157.0 0.0 350.4

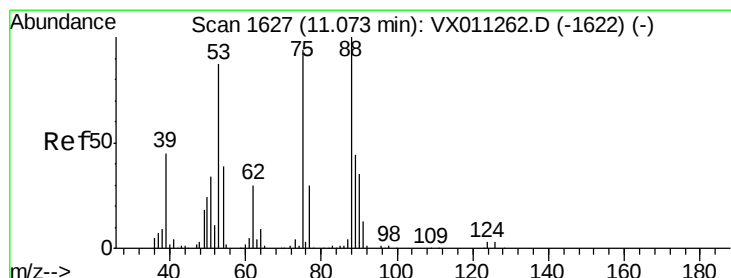
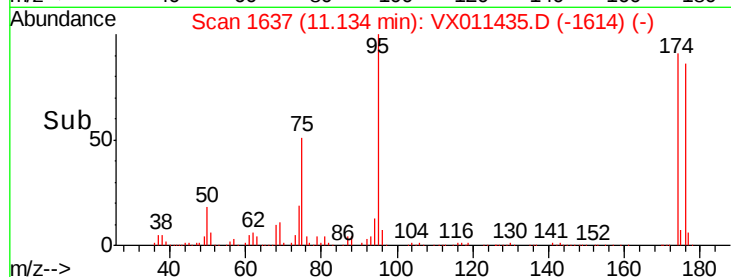
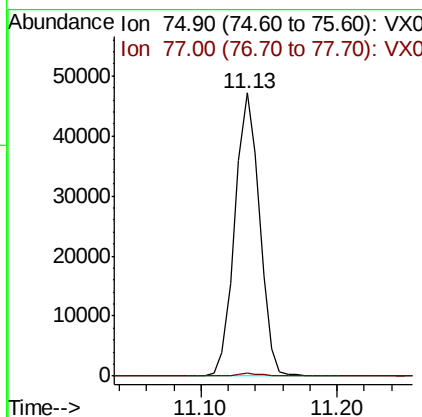
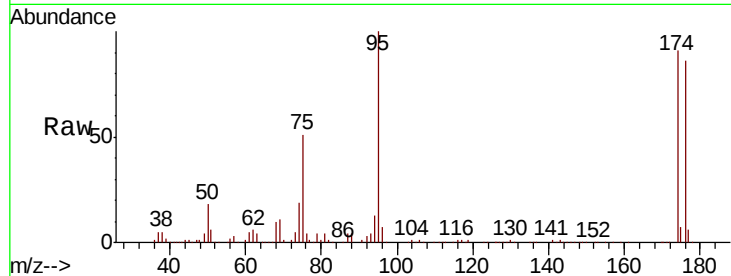




#76
 1,2,3-Trichloropropane
 Concen: 27.068 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011435.D
 Acq: 11 Aug 2019 16:39

Instrument :
 MSVOA_X
 ClientSampled :
 2S-12-(0)

Tgt Ion: 75 Resp: 59617
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.261 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011435.D
 Acq: 11 Aug 2019 16:39

Tgt Ion: 75 Resp: 59617
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.2 117.4#
 89 0.1 37.9 56.9#

