

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011439.D
 Acq On : 11 Aug 2019 18:12
 Operator : JC/SP
 Sample : K4228-39
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-12-(1)

Quant Time: Aug 12 07:51:02 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	197887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	293649	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	271383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	125767	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	106069	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
35) Dibromofluoromethane	5.49	113	90263	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	
50) Toluene-d8	8.71	98	354809	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.13	95	116751	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	

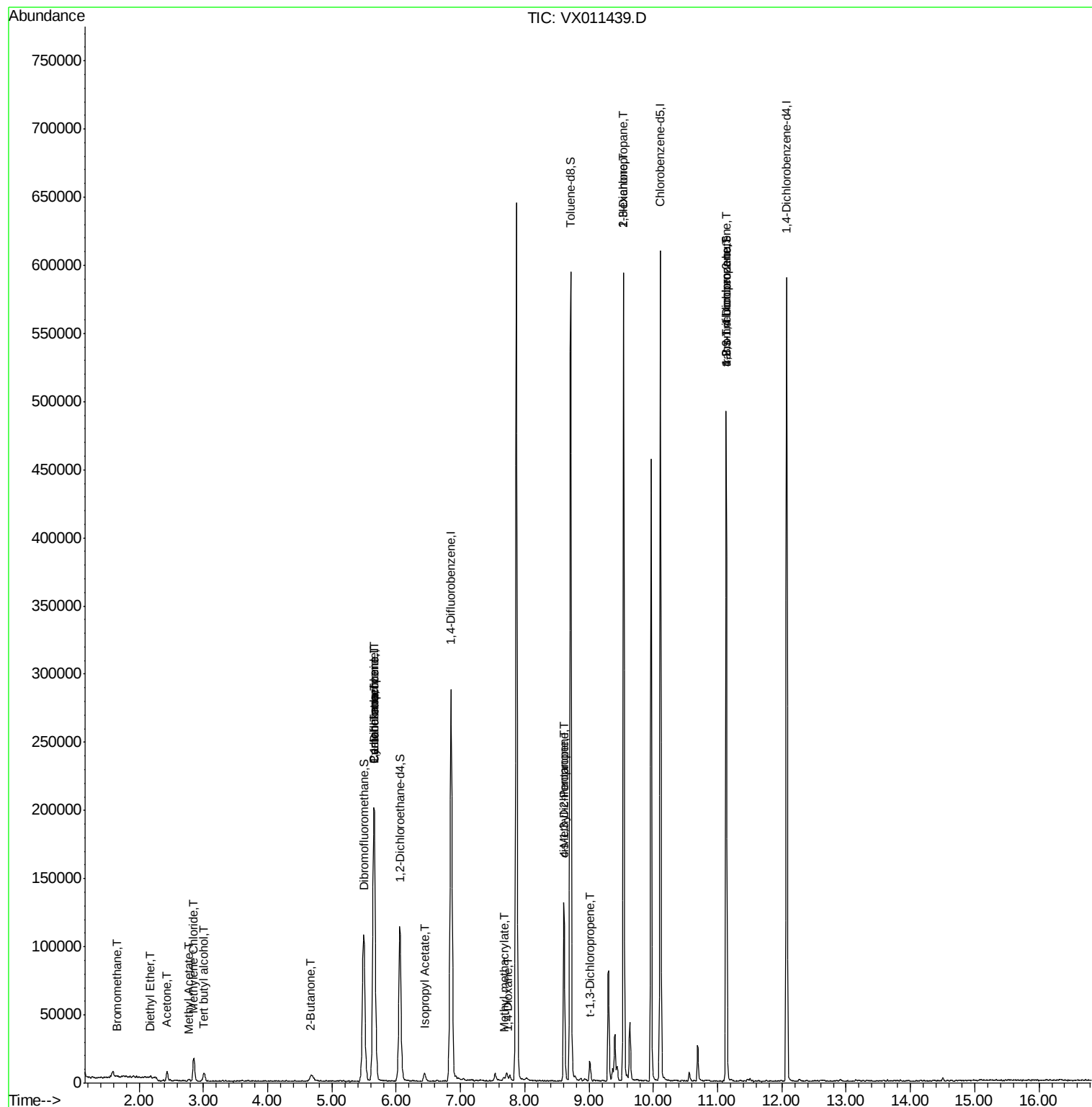
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	361	0.268	ug/l	95
6) Chloroethane	1.76	64	447	Below Cal	#	43
8) Diethyl Ether	2.18	74	433	0.361	ug/l	81
11) Tert butyl alcohol	3.01	59	3453	8.711	ug/l #	76
13) Acrolein	2.30	56	23	Below Cal	#	1
16) Acetone	2.43	43	7404	7.806	ug/l	98
18) Methyl Acetate	2.77	43	1228	0.567	ug/l	92
20) Methylene Chloride	2.85	84	8290	3.991	ug/l #	93
25) 2-Butanone	4.67	43	515	0.382	ug/l #	87
31) Cyclohexane	5.65	56	4088	1.593	ug/l #	14
36) 1,1-Dichloropropene	5.65	75	13793	5.380	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18789	7.284	ug/l #	14
43) Isopropyl Acetate	6.44	43	7929	1.928	ug/l	97
48) Methyl methacrylate	7.68	41	3703	1.914	ug/l #	10
49) 1,4-Dioxane	7.74	88	41	0.731	ug/l #	29
51) 4-Methyl-2-Pentanone	8.61	43	41512	15.645	ug/l #	48
53) t-1,3-Dichloropropene	9.02	75	49	2.855	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20839	7.285	ug/l #	69
57) 1,3-Dichloropropane	9.54	76	5114	1.555	ug/l #	44
59) 2-Hexanone	9.54	43	67361	32.775	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	60952	26.612	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	60952	69.155	ug/l #	10

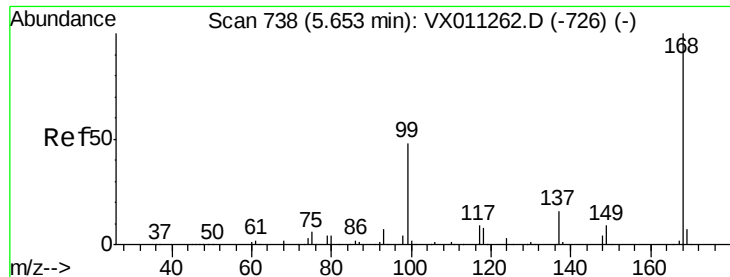
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX011439.D

Acq: 11 Aug 2019 18:12

Instrument :

MSVOA_X

ClientSampleId :

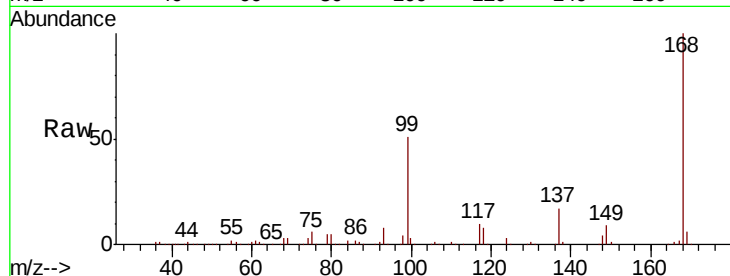
2S-I2-(1)

Tgt Ion:168 Resp: 197887

Ion Ratio Lower Upper

168 100

99 51.4 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

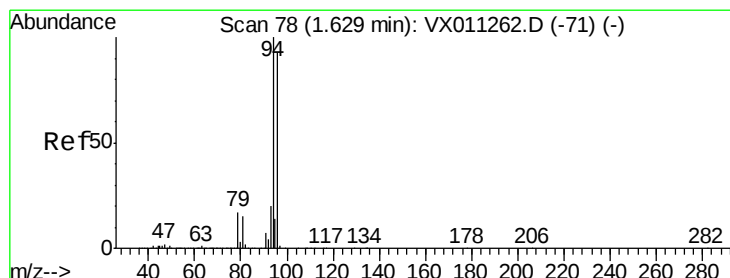
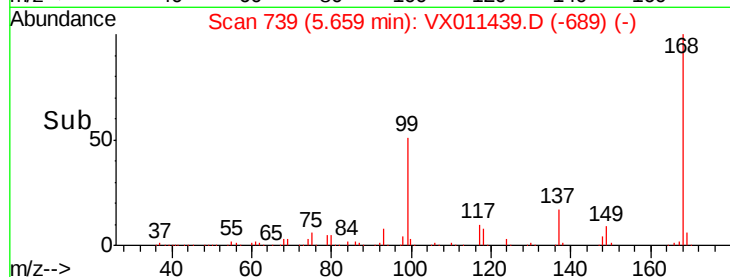
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.268 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011439.D

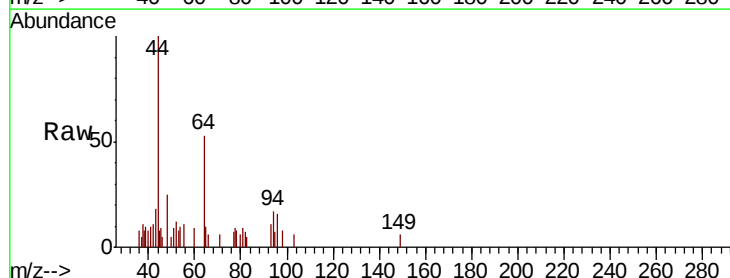
Acq: 11 Aug 2019 18:12

Tgt Ion: 94 Resp: 361

Ion Ratio Lower Upper

94 100

96 97.7 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

200

150

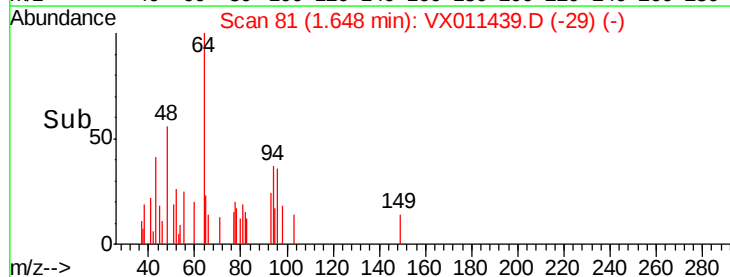
100

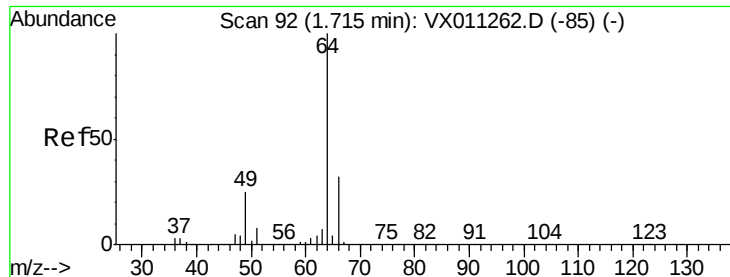
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 99

Delta R.T. 0.04 min

Lab File: VX011439.D

Acq: 11 Aug 2019 18:12

Instrument :

MSVOA_X

ClientSampled :

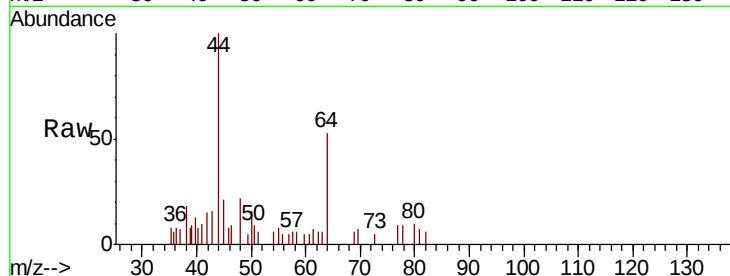
2S-12-(1)

Tgt Ion: 64 Resp: 447

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

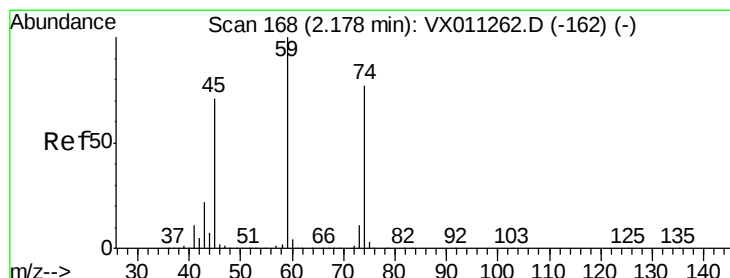
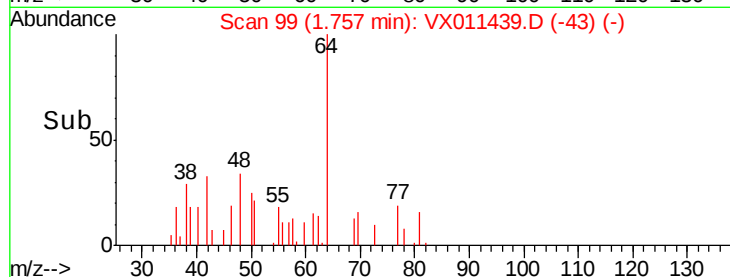
1.76

400

200

0

Time-->



#8

Diethyl Ether

Concen: 0.361 ug/l

RT: 2.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VX011439.D

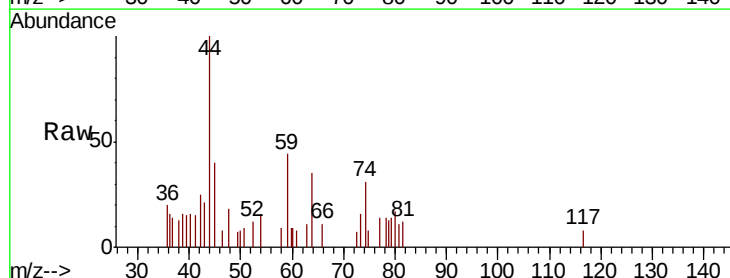
Acq: 11 Aug 2019 18:12

Tgt Ion: 74 Resp: 433

Ion Ratio Lower Upper

74 100

45 74.4 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

400

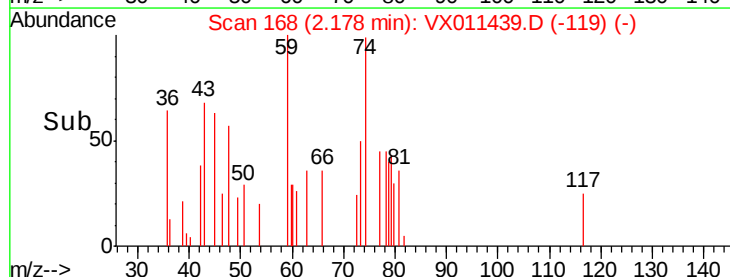
300

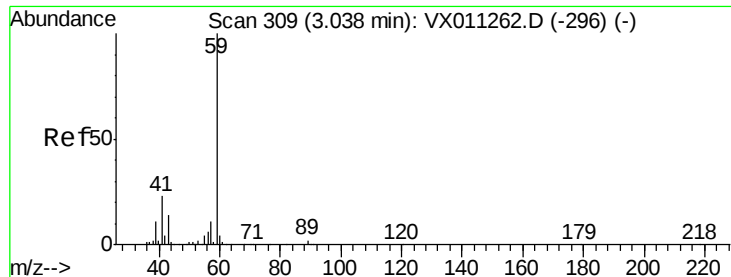
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 8.711 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011439.D

Acq: 11 Aug 2019 18:12

Instrument :

MSVOA_X

ClientSampleId :

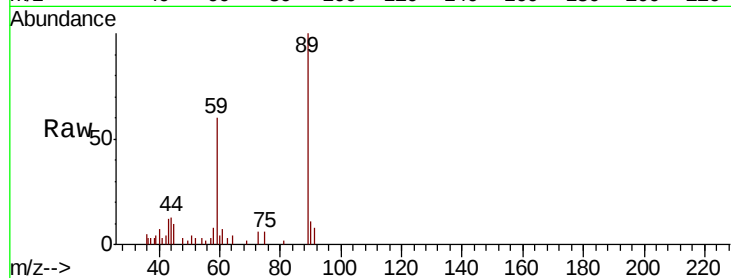
2S-12-(1)

Tgt Ion: 59 Resp: 3453

Ion Ratio Lower Upper

59 100

57 1.4 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

1500

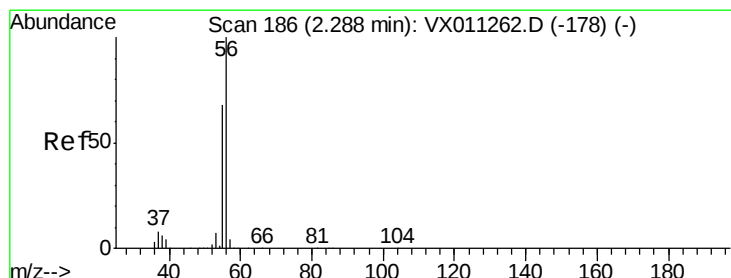
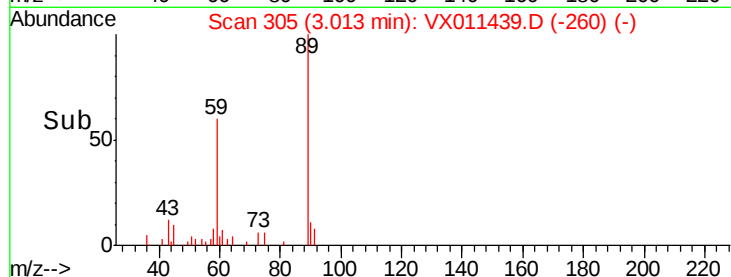
1000

500

0

Time-->

2.90 2.95 3.00 3.05 3.10



#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011439.D

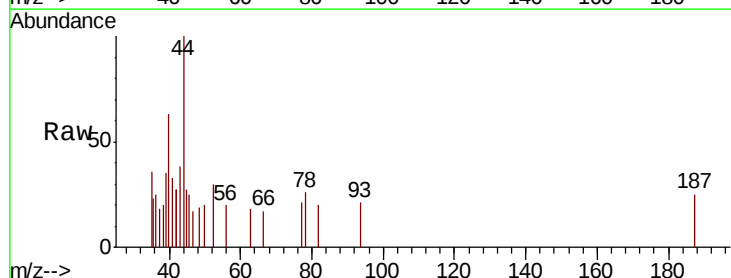
Acq: 11 Aug 2019 18:12

Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

56 100

55 208.7 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.30

80

60

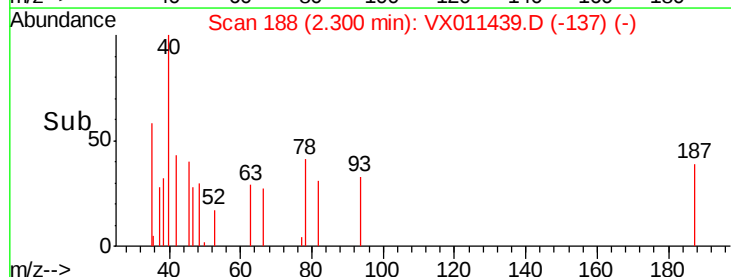
40

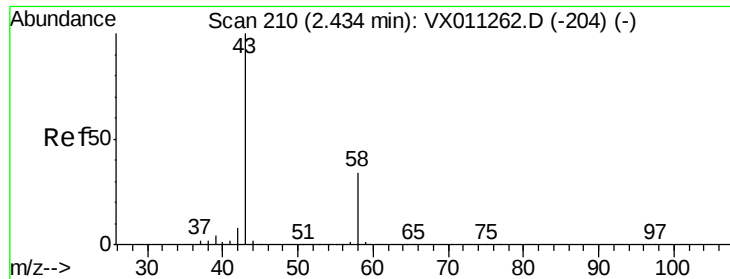
20

0

Time-->

2.28 2.29 2.30 2.31 2.32





#16

Acetone

Concen: 7.806 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011439.D

Acq: 11 Aug 2019 18:12

Instrument :

MSVOA_X

ClientSampleId :

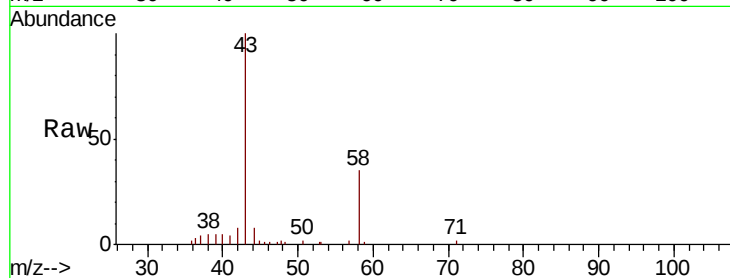
2S-12-(1)

Tgt Ion: 43 Resp: 7404

Ion Ratio Lower Upper

43 100

58 35.3 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

5000

4000

3000

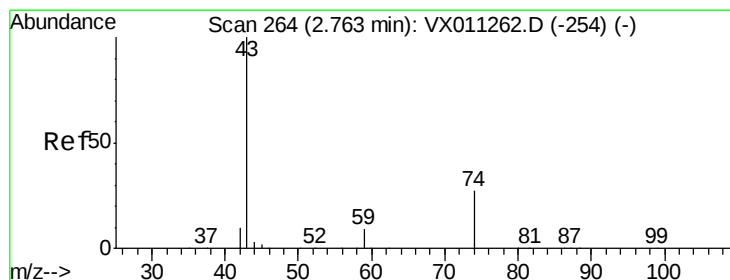
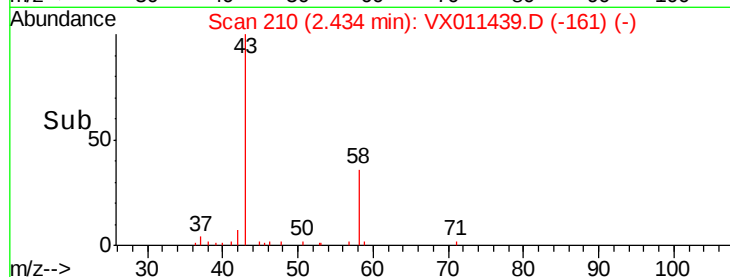
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.567 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011439.D

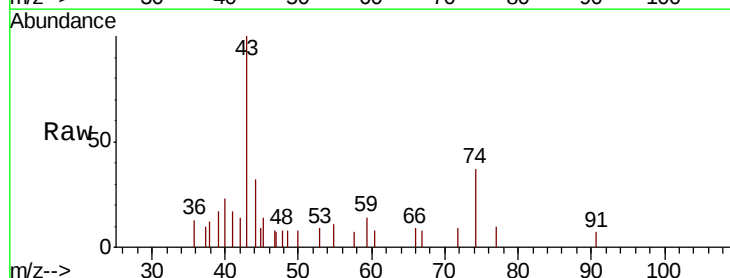
Acq: 11 Aug 2019 18:12

Tgt Ion: 43 Resp: 1228

Ion Ratio Lower Upper

43 100

74 30.3 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

800

600

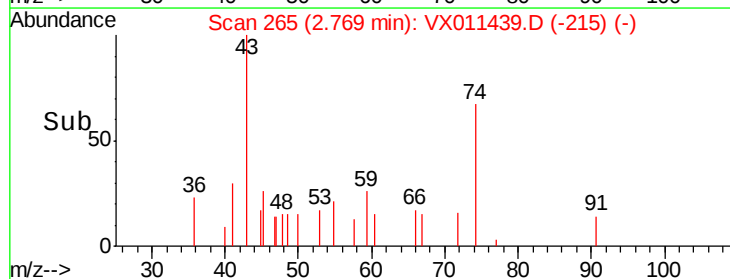
400

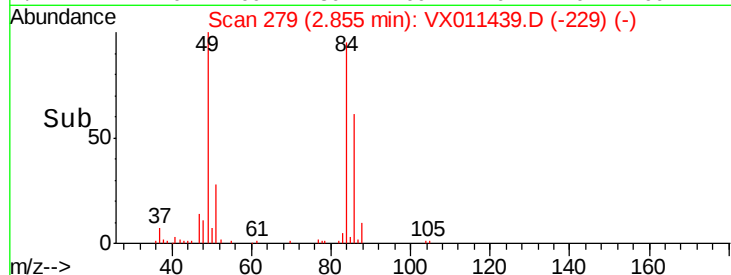
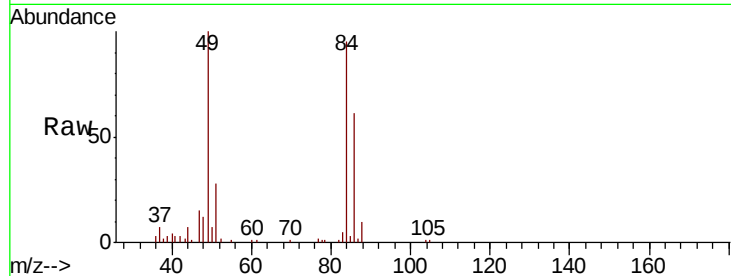
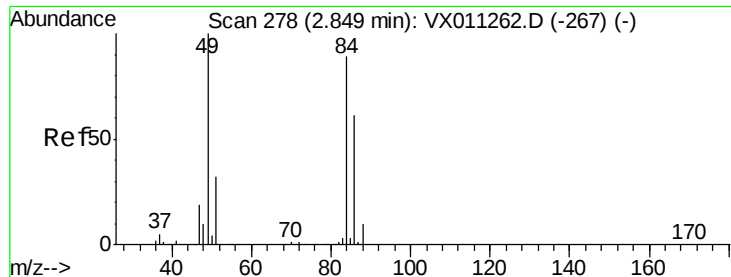
200

0

Time-->

2.70 2.75 2.80

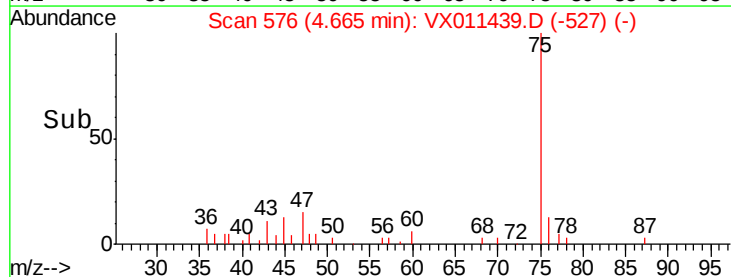
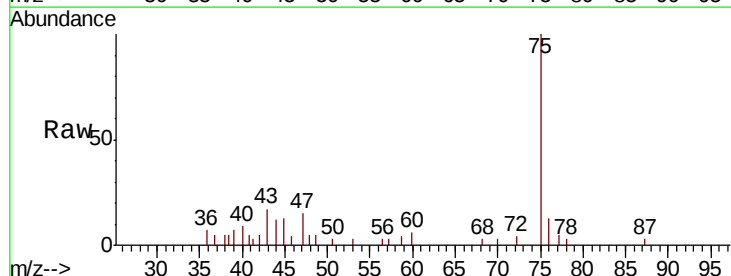
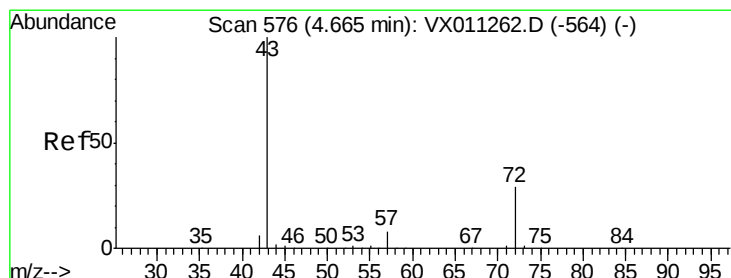
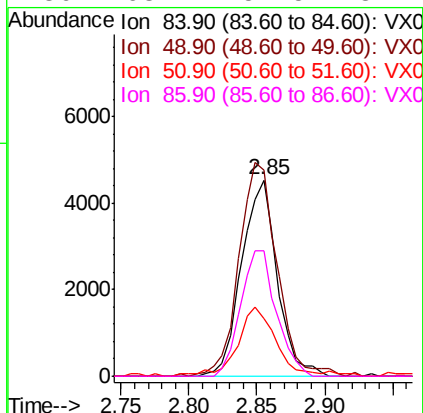




#20
Methylene Chloride
Concen: 3.991 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

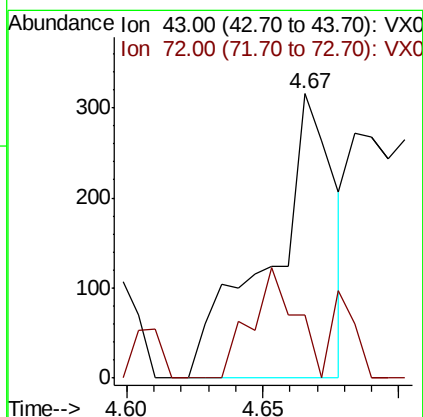
Instrument :
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ClientSampleId :
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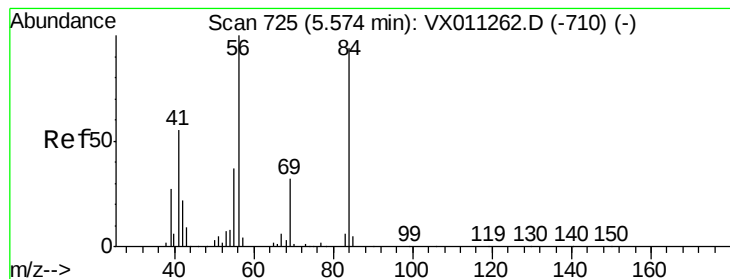
Tgt Ion: 84 Resp: 8290
Ion Ratio Lower Upper
84 100
49 104.7 89.3 133.9
51 27.6 28.3 42.5#
86 63.7 54.5 81.7



#25
2-Butanone
Concen: 0.382 ug/l
RT: 4.67 min Scan# 576
Delta R.T. 0.00 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

Tgt Ion: 43 Resp: 515
Ion Ratio Lower Upper
43 100
72 22.2 23.2 34.8#





#31

Cyclohexane

Concen: 1.593 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011439.D

Acq: 11 Aug 2019 18:12

Instrument :

MSVOA_X

ClientSampleId :

2S-I2-(1)

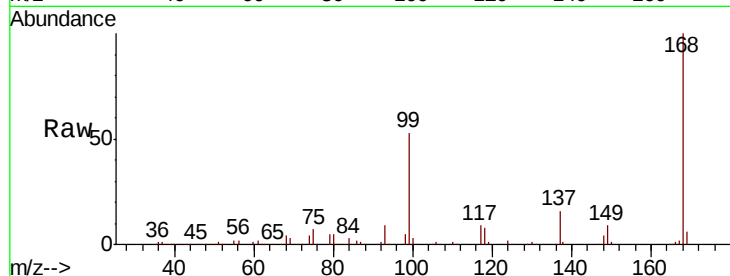
Tgt Ion: 56 Resp: 4088

Ion Ratio Lower Upper

56 100

69 152.5 25.5 38.3#

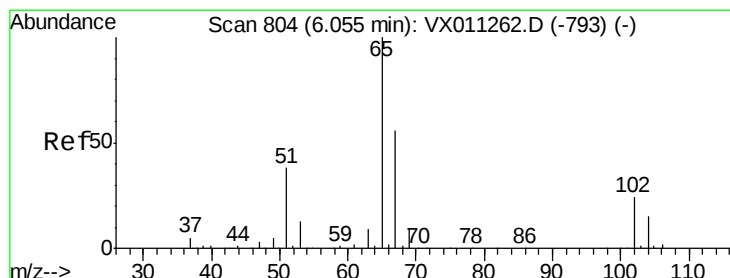
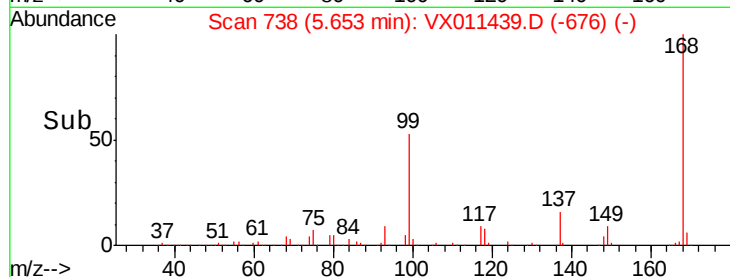
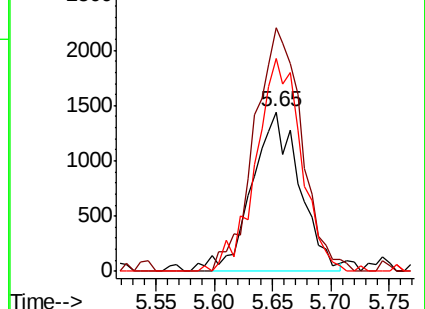
84 133.3 75.0 112.4#



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: 53.225 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011439.D

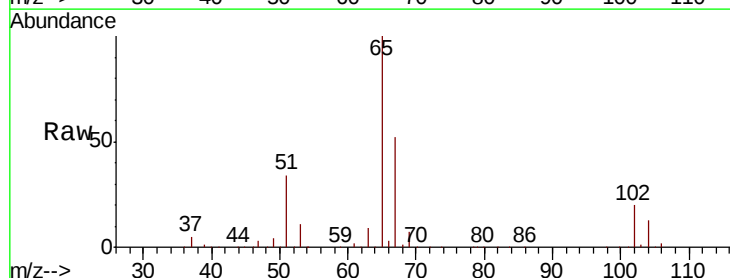
Acq: 11 Aug 2019 18:12

Tgt Ion: 65 Resp: 106069

Ion Ratio Lower Upper

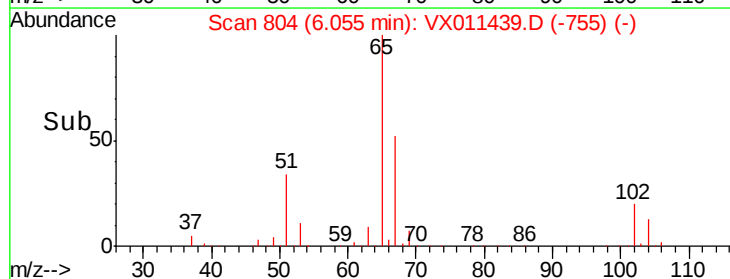
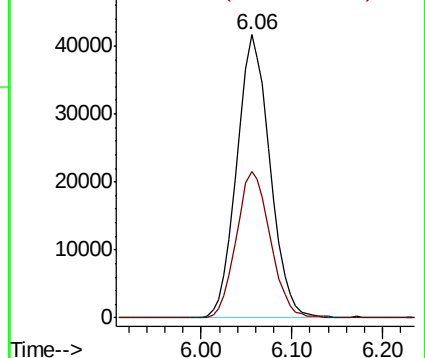
65 100

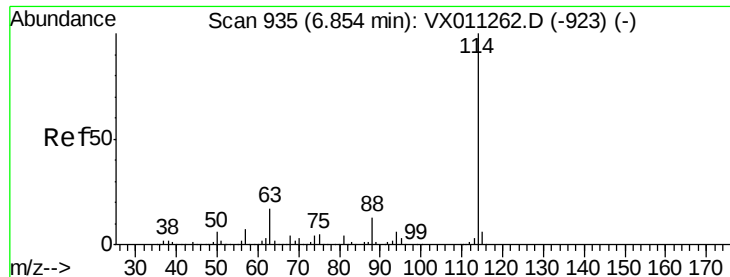
67 53.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

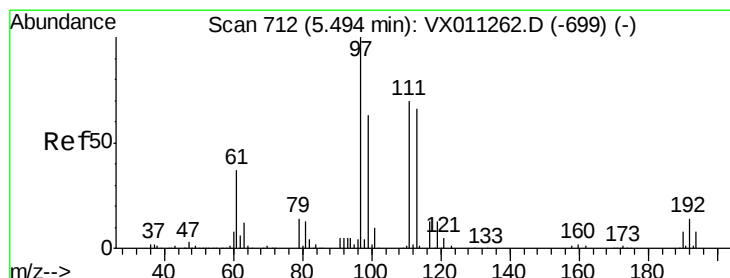
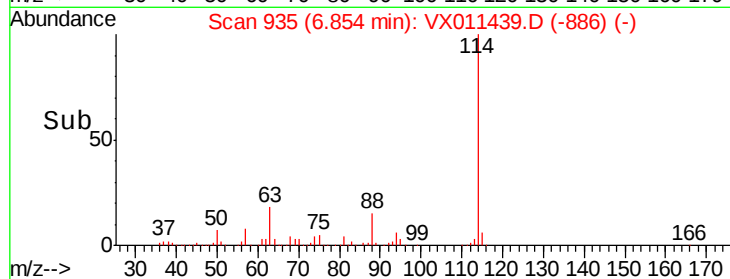
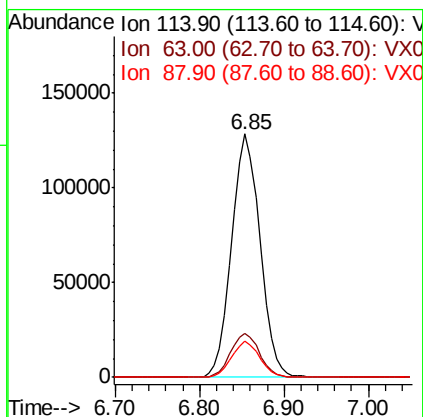
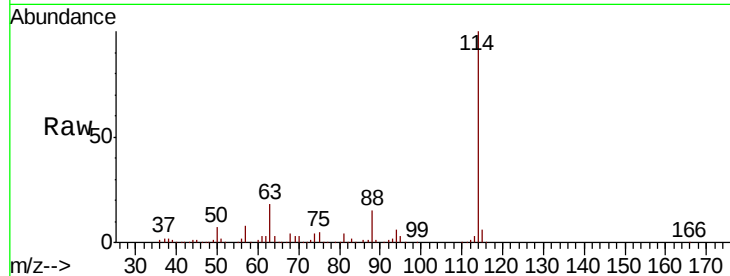




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. 0.00 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

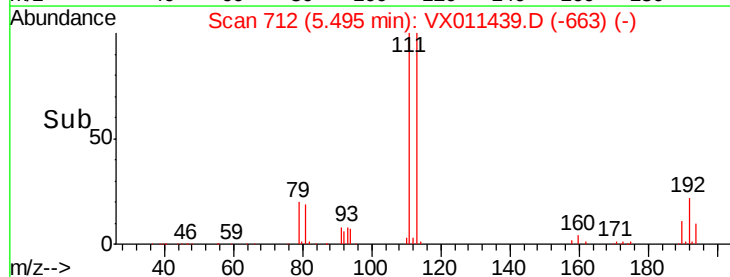
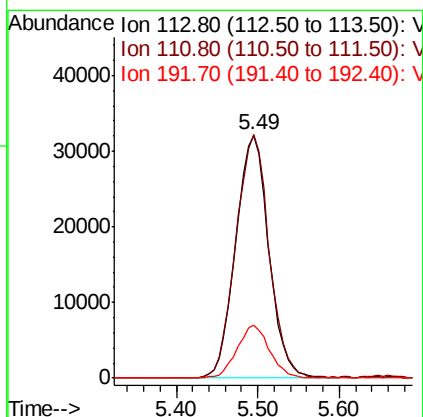
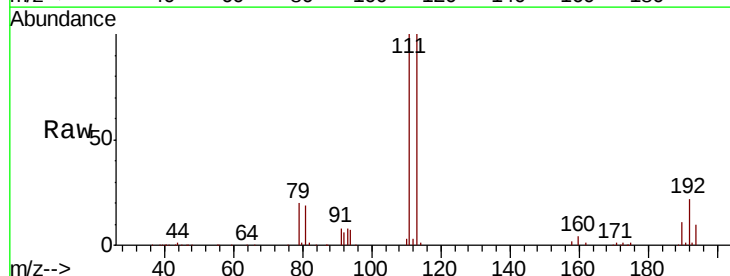
Instrument :
MSVOA_X
ClientSampleId :
2S-12-(1)

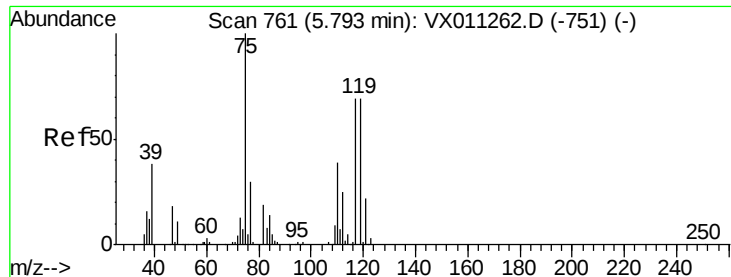
Tgt Ion:114 Resp: 293649
Ion Ratio Lower Upper
114 100
63 18.0 0.0 34.0
88 15.1 0.0 26.4



#35
Dibromofluoromethane
Concen: 47.081 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.00 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

Tgt Ion:113 Resp: 90263
Ion Ratio Lower Upper
113 100
111 101.3 81.9 122.9
192 21.5 17.8 26.8

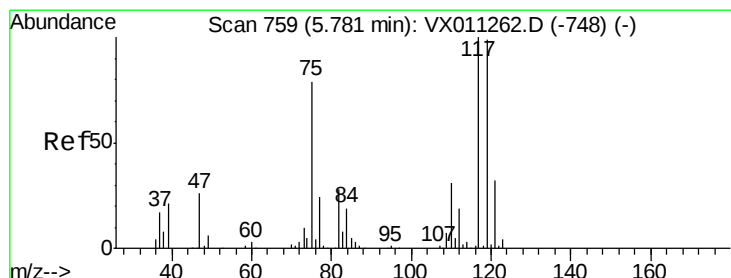
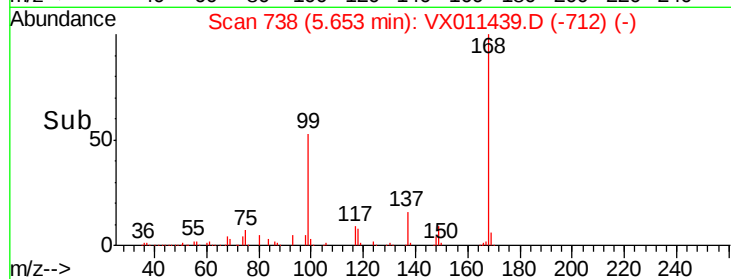
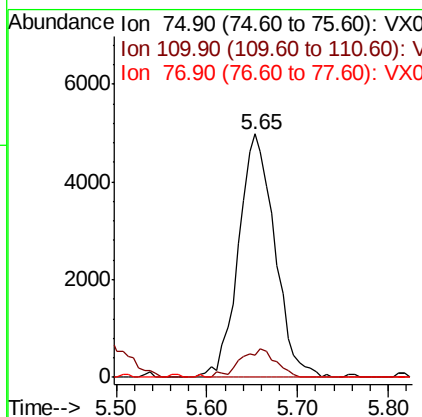
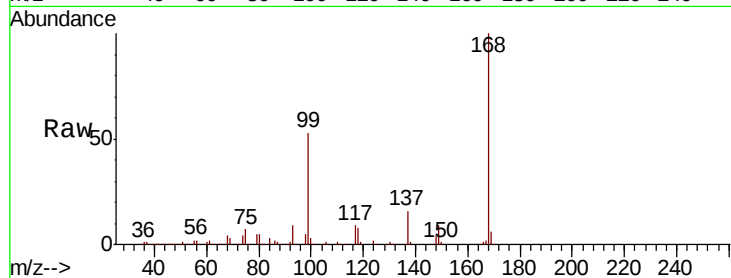




#36
 1,1-Dichloropropene
 Concen: 5.380 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011439.D
 Acq: 11 Aug 2019 18:12

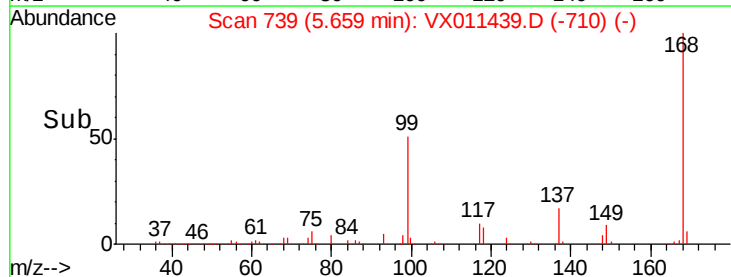
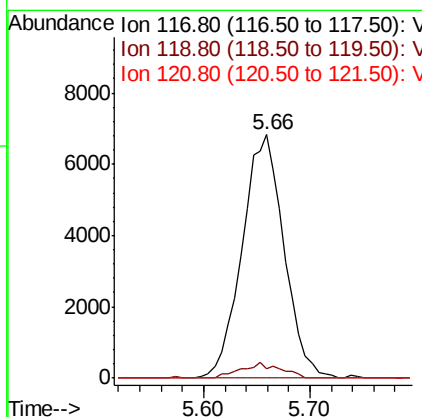
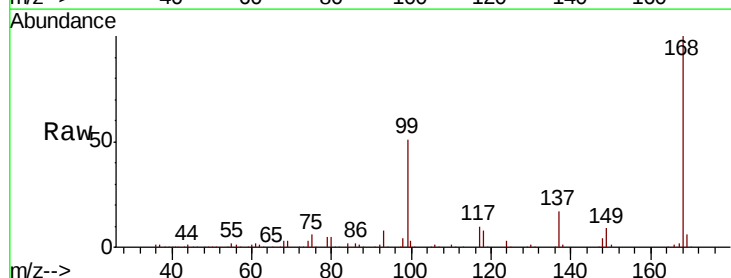
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-12-(1)

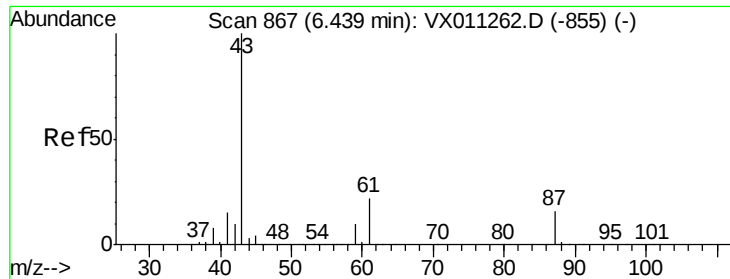
Tgt Ion: 75 Resp: 13793
 Ion Ratio Lower Upper
 75 100
 110 11.4 20.0 59.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.284 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011439.D
 Acq: 11 Aug 2019 18:12

Tgt Ion: 117 Resp: 18789
 Ion Ratio Lower Upper
 117 100
 119 3.7 79.0 118.4#
 121 0.0 25.9 38.9#

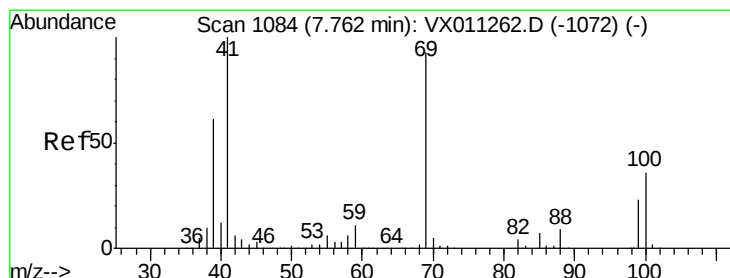
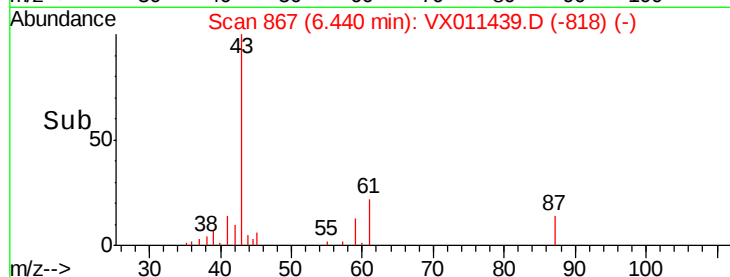
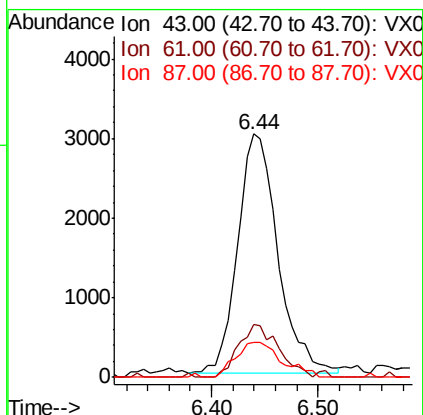
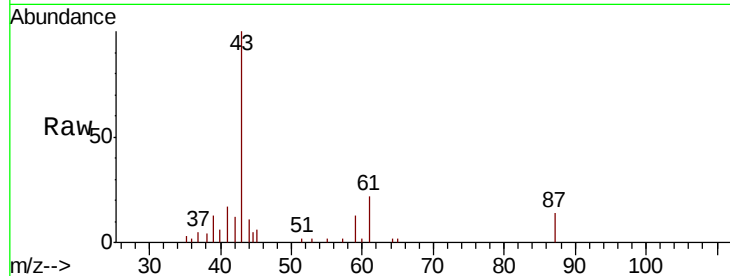




#43
Isopropyl Acetate
Concen: 1.928 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

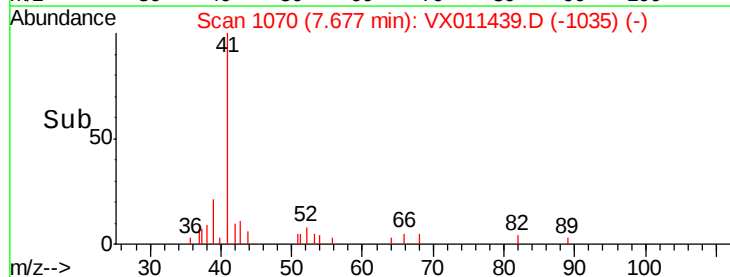
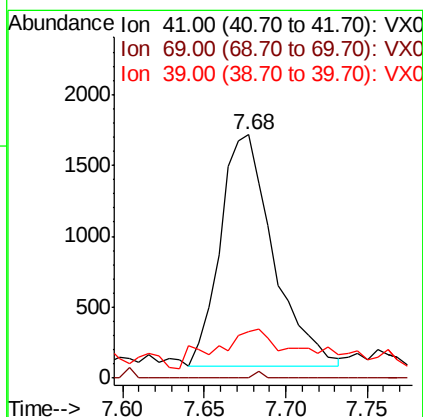
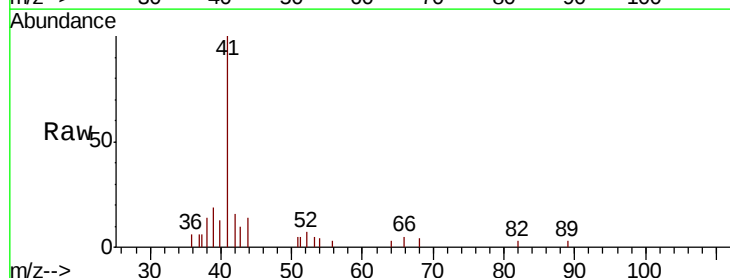
Instrument :
MSVOA_X
ClientSampleId :
2S-12-(1)

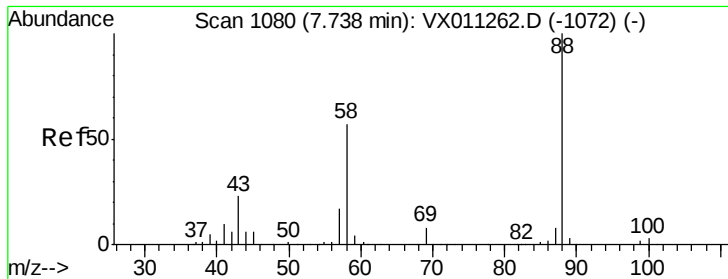
Tgt Ion: 43 Resp: 7929
Ion Ratio Lower Upper
43 100
61 21.9 16.5 24.7
87 16.7 12.1 18.1



#48
Methyl methacrylate
Concen: 1.914 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

Tgt Ion: 41 Resp: 3703
Ion Ratio Lower Upper
41 100
69 0.5 74.5 111.7#
39 0.0 48.6 72.8#

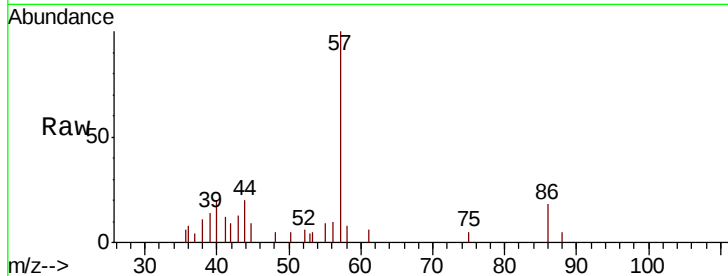




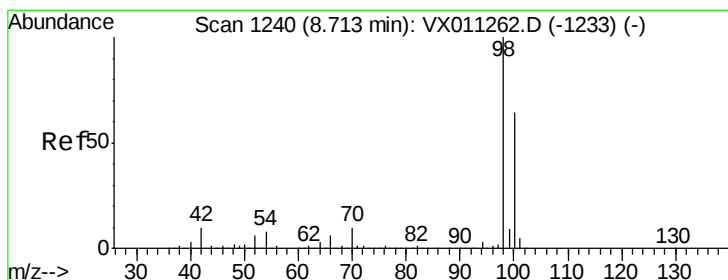
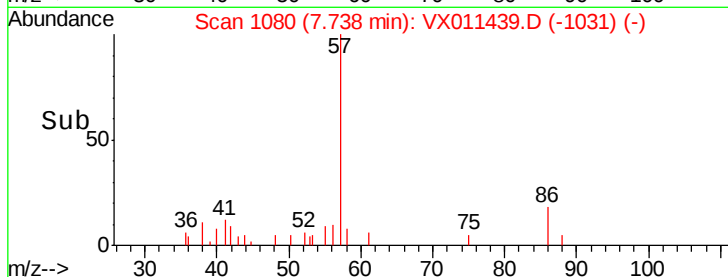
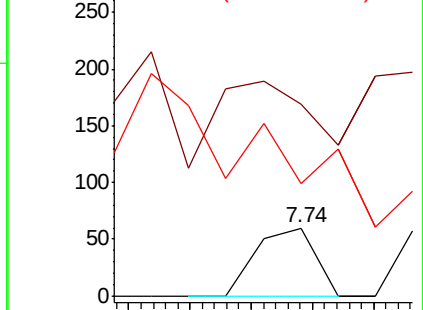
#49
 1,4-Dioxane
 Concen: 0.731 ug/l
 RT: 7.74 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VX011439.D
 Acq: 11 Aug 2019 18:12

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-I2-(1)

Tgt Ion: 88 Resp: 41
 Ion Ratio Lower Upper
 88 100
 43 0.0 22.2 33.2#
 58 0.0 47.8 71.8#

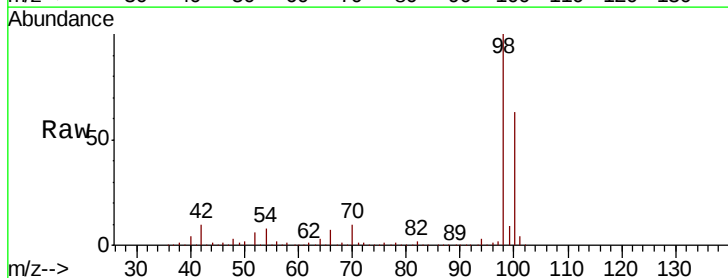


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

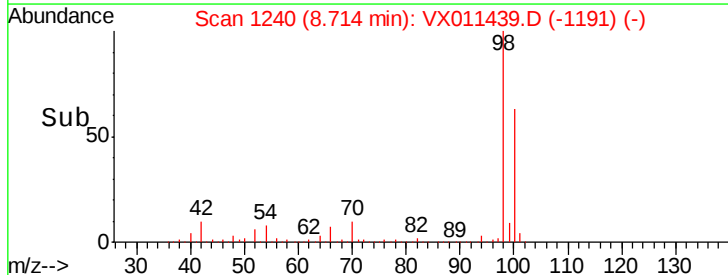
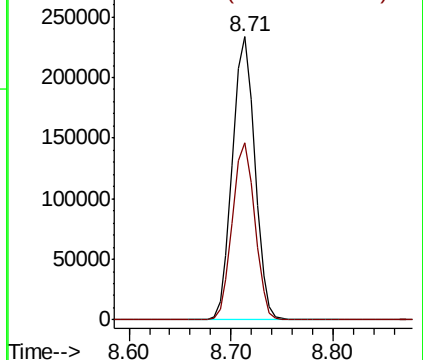


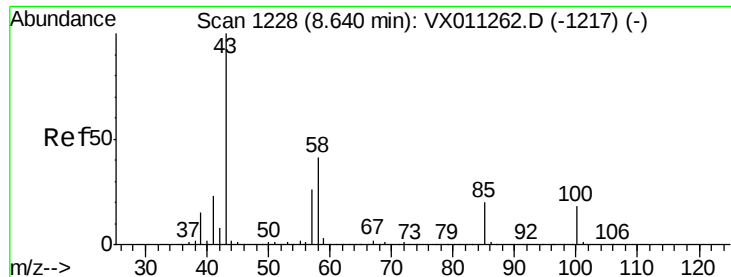
#50
 Toluene-d8
 Concen: 49.029 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX011439.D
 Acq: 11 Aug 2019 18:12

Tgt Ion: 98 Resp: 354809
 Ion Ratio Lower Upper
 98 100
 100 63.1 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: 15.645 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011439.D

Acq: 11 Aug 2019 18:12

Instrument :

MSVOA_X

ClientSampleId :

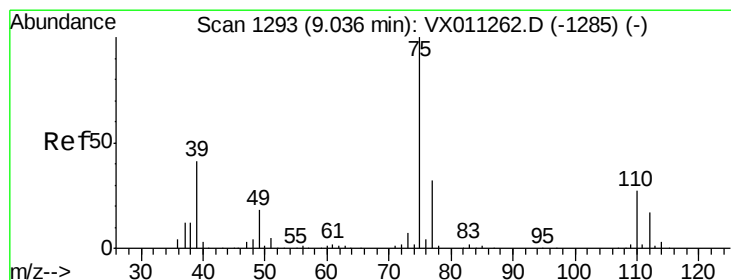
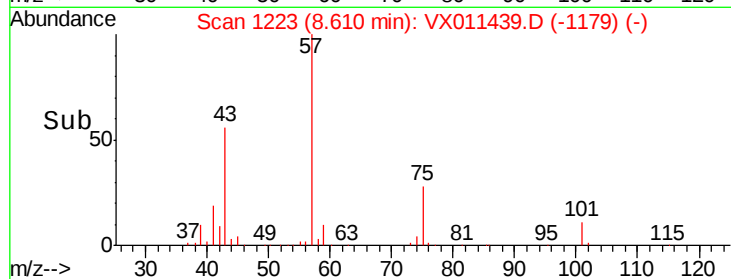
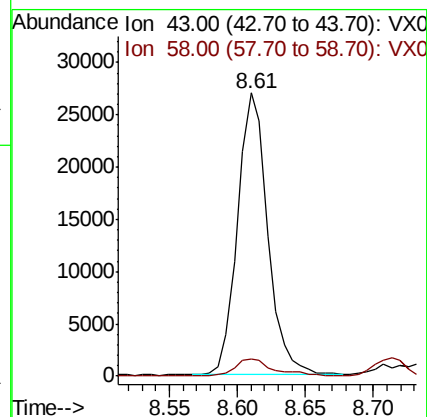
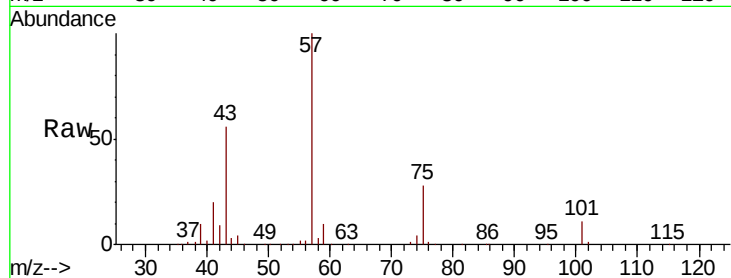
2S-12-(1)

Tgt Ion: 43 Resp: 41512

Ion Ratio Lower Upper

43 100

58 8.0 32.3 48.5#



#53

t-1,3-Dichloropropene

Concen: 2.855 ug/l

RT: 9.02 min Scan# 1290

Delta R.T. -0.02 min

Lab File: VX011439.D

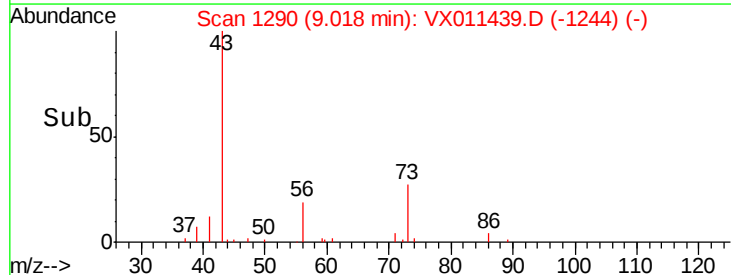
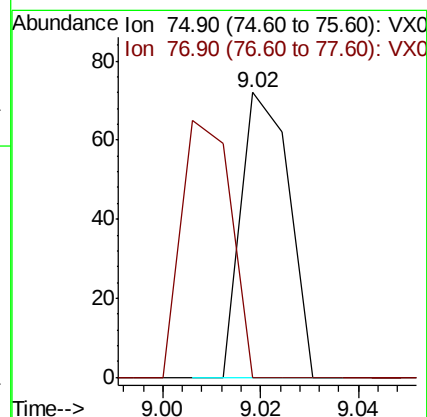
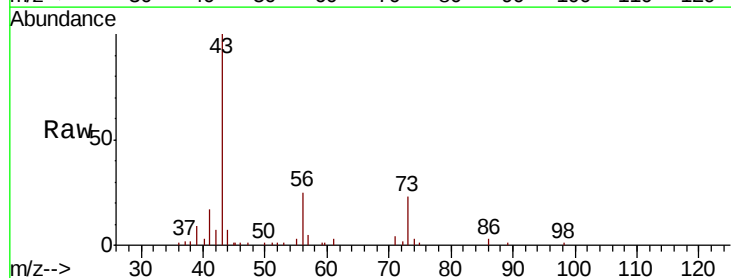
Acq: 11 Aug 2019 18:12

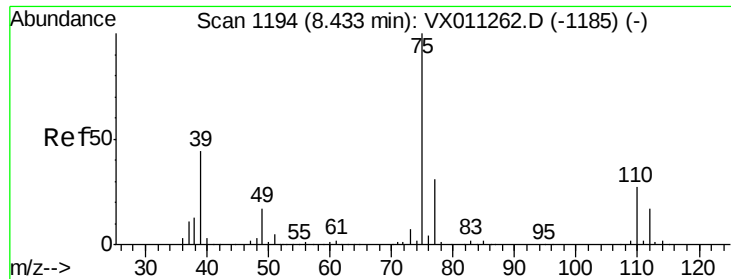
Tgt Ion: 75 Resp: 49

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



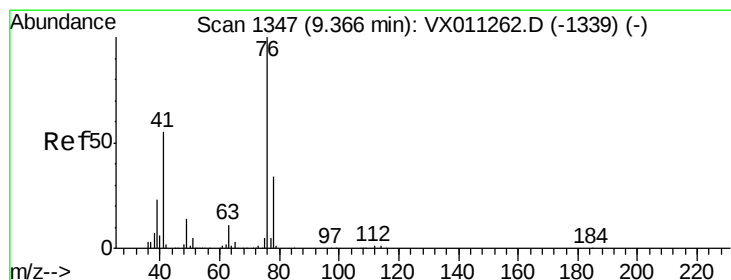
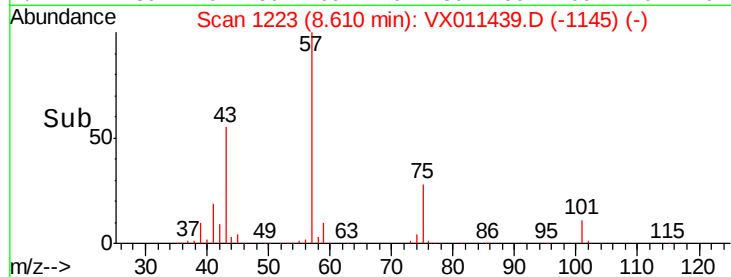
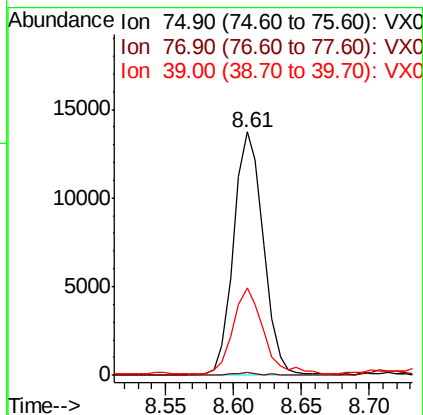
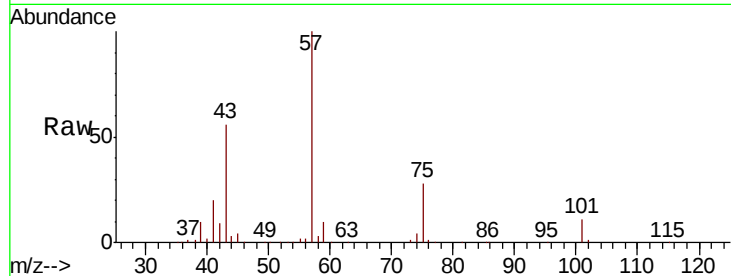


#54

cis-1,3-Dichloropropene
 Concen: 7.285 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011439.D
 Acq: 11 Aug 2019 18:12

Instrument :
 MSVOA_X
 ClientSampled :
 2S-12-(1)

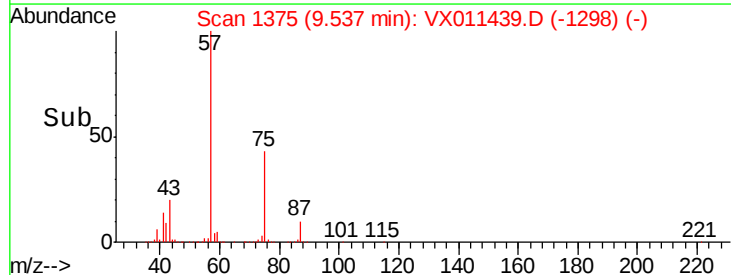
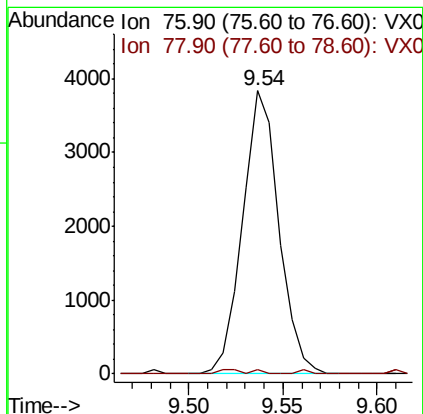
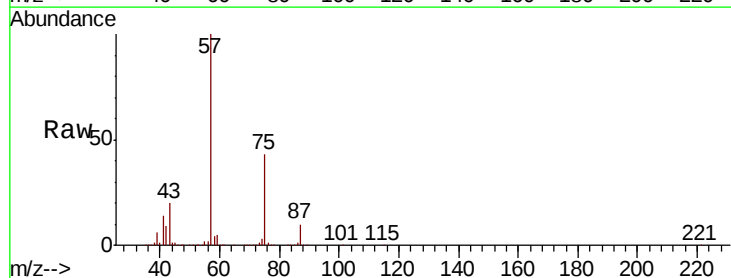
Tgt Ion: 75 Resp: 20839
 Ion Ratio Lower Upper
 75 100
 77 1.2 25.0 37.6#
 39 35.0 35.3 52.9#

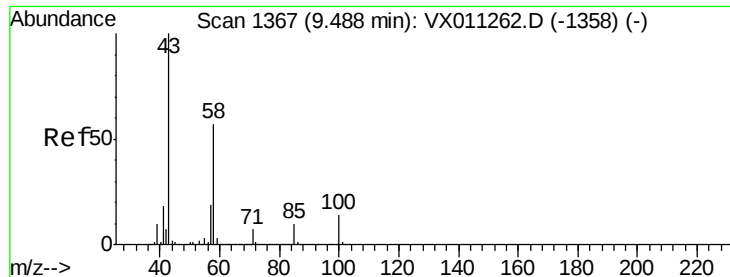


#57

1,3-Dichloropropane
 Concen: 1.555 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011439.D
 Acq: 11 Aug 2019 18:12

Tgt Ion: 76 Resp: 5114
 Ion Ratio Lower Upper
 76 100
 78 1.3 26.6 40.0#

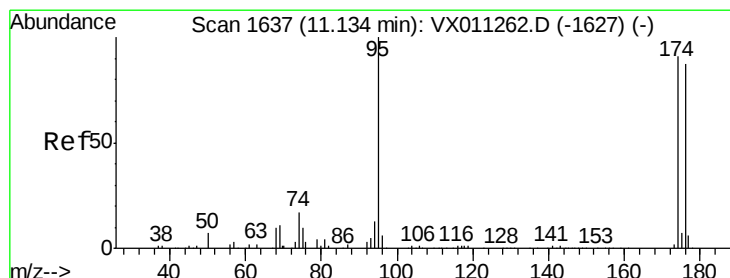
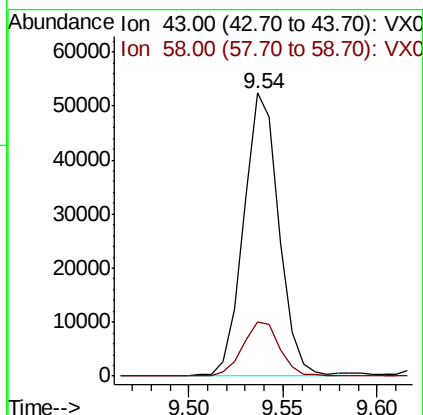
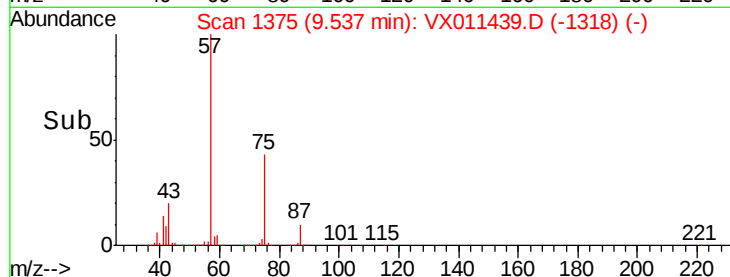
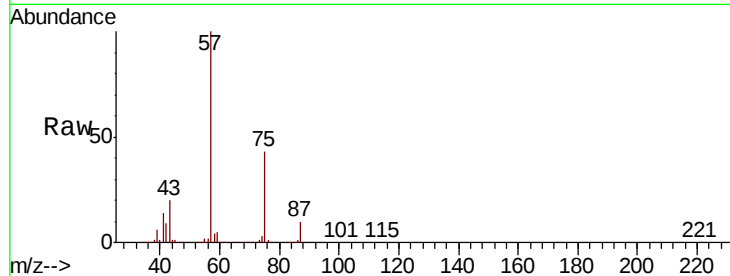




#59
2-Hexanone
Concen: 32.775 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

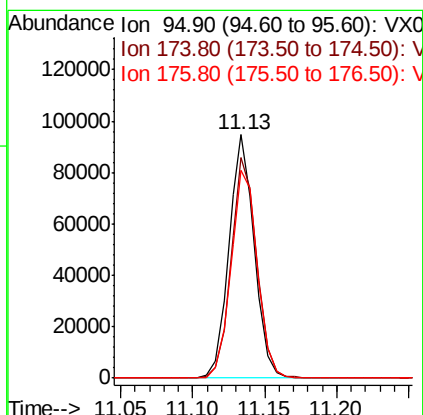
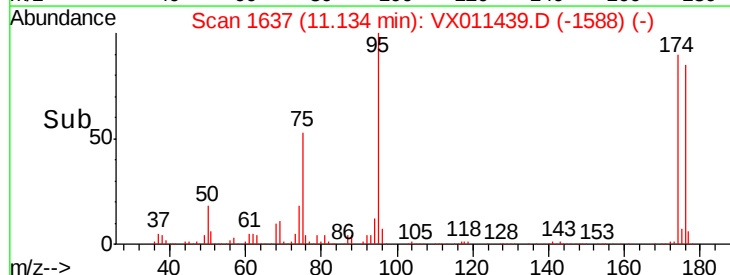
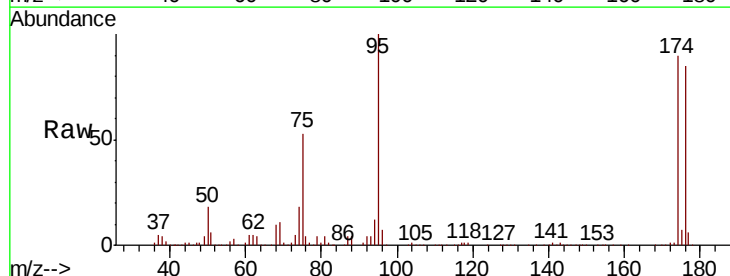
Instrument :
MSVOA_X
ClientSampleId :
2S-12-(1)

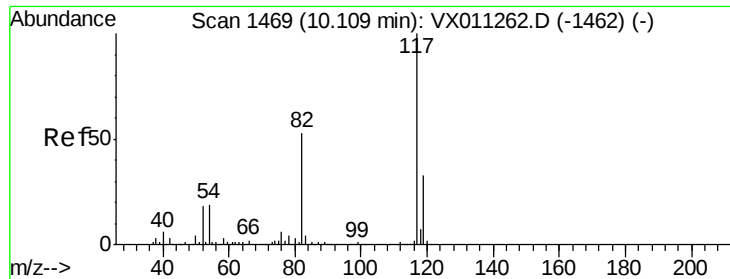
Tgt Ion: 43 Resp: 67361
Ion Ratio Lower Upper
43 100
58 20.7 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 45.187 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

Tgt Ion: 95 Resp: 116751
Ion Ratio Lower Upper
95 100
174 91.8 0.0 191.2
176 88.9 0.0 184.8

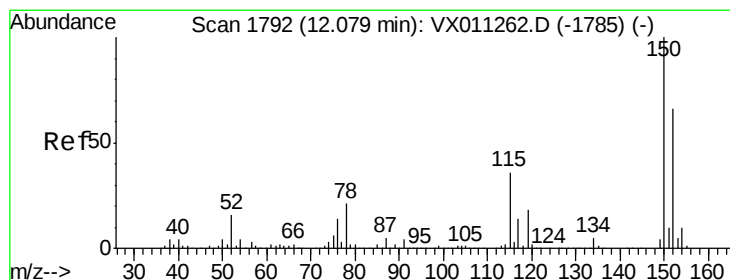
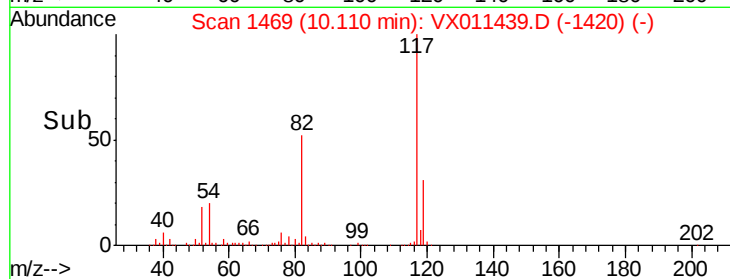
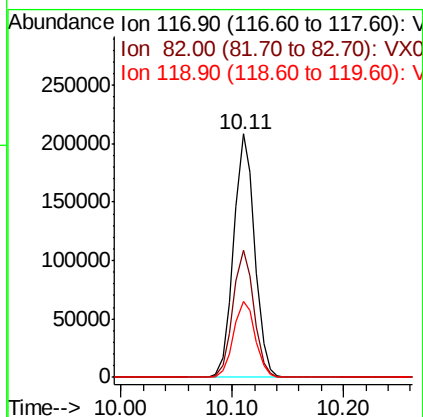
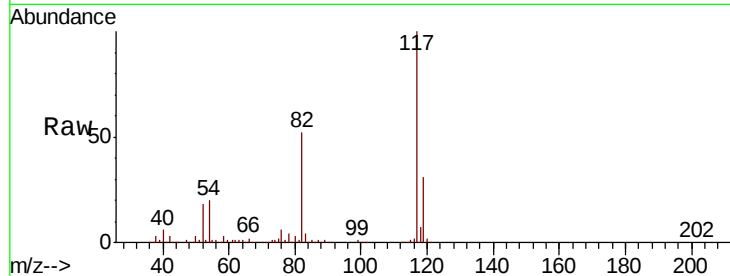




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

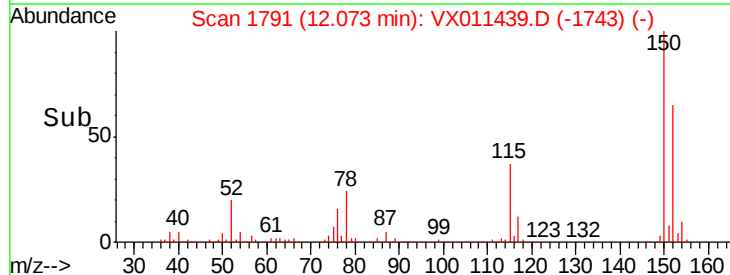
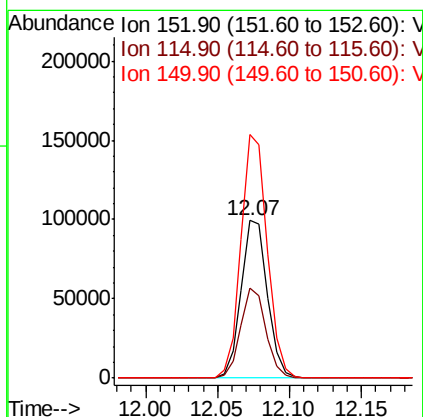
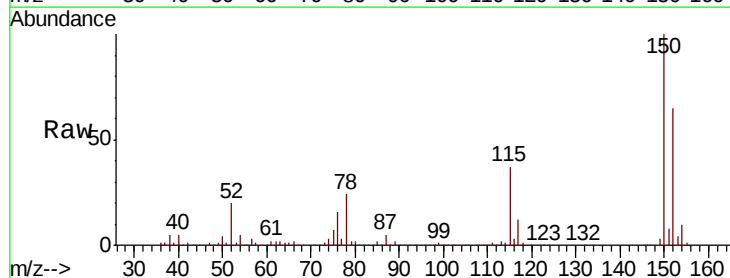
Instrument :
MSVOA_X
ClientSampled :
2S-12-(1)

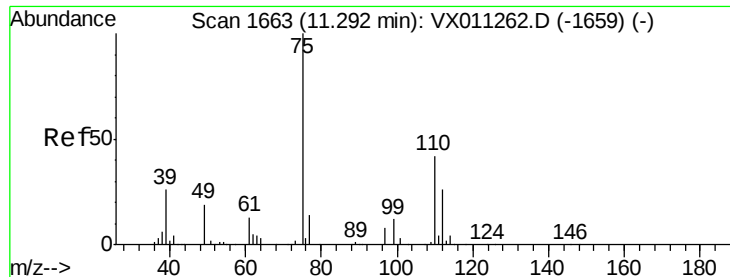
Tgt Ion:117 Resp: 271383
Ion Ratio Lower Upper
117 100
82 52.1 42.2 63.2
119 31.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011439.D
Acq: 11 Aug 2019 18:12

Tgt Ion:152 Resp: 125767
Ion Ratio Lower Upper
152 100
115 55.3 40.0 119.9
150 154.2 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 26.612 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011439.D

Acq: 11 Aug 2019 18:12

Instrument :

MSVOA_X

ClientSampled :

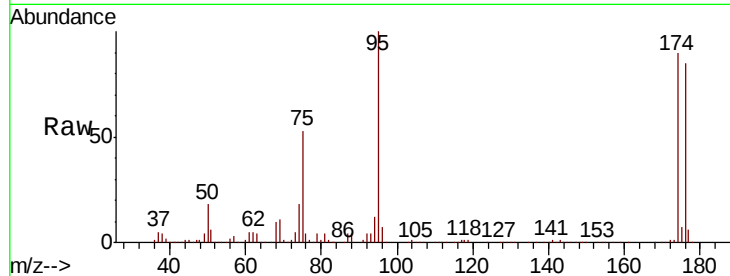
2S-12-(1)

Tgt Ion: 75 Resp: 60952

Ion Ratio Lower Upper

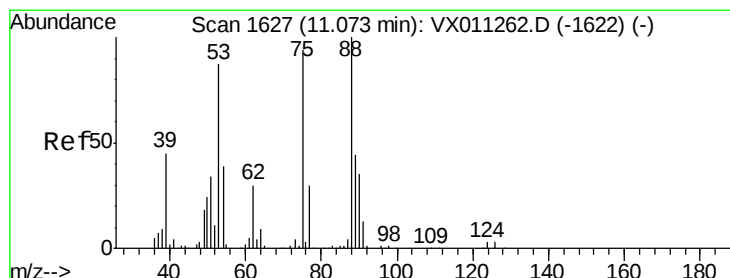
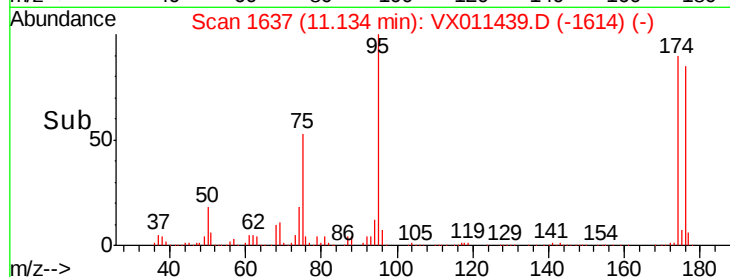
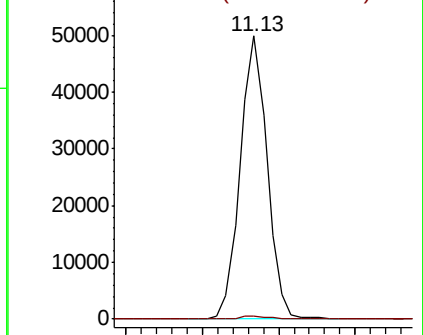
75 100

77 1.2 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: 69.155 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011439.D

Acq: 11 Aug 2019 18:12

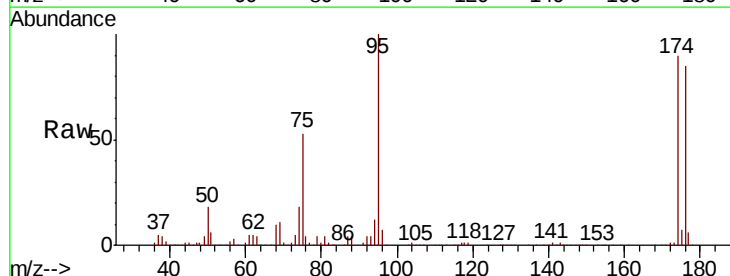
Tgt Ion: 75 Resp: 60952

Ion Ratio Lower Upper

75 100

53 0.2 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

