

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011119\
 Data File : VX007025.D
 Acq On : 11 Jan 2019 20:23
 Operator : JC/SP
 Sample : K1116-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-IDW03

Quant Time: Jan 11 22:21:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	568595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	893541	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	857055	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	414039	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	310492	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
35) Dibromofluoromethane	5.51	113	268199	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
50) Toluene-d8	8.71	98	1078527	51.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.98%	
62) 4-Bromofluorobenzene	11.13	95	388391	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	

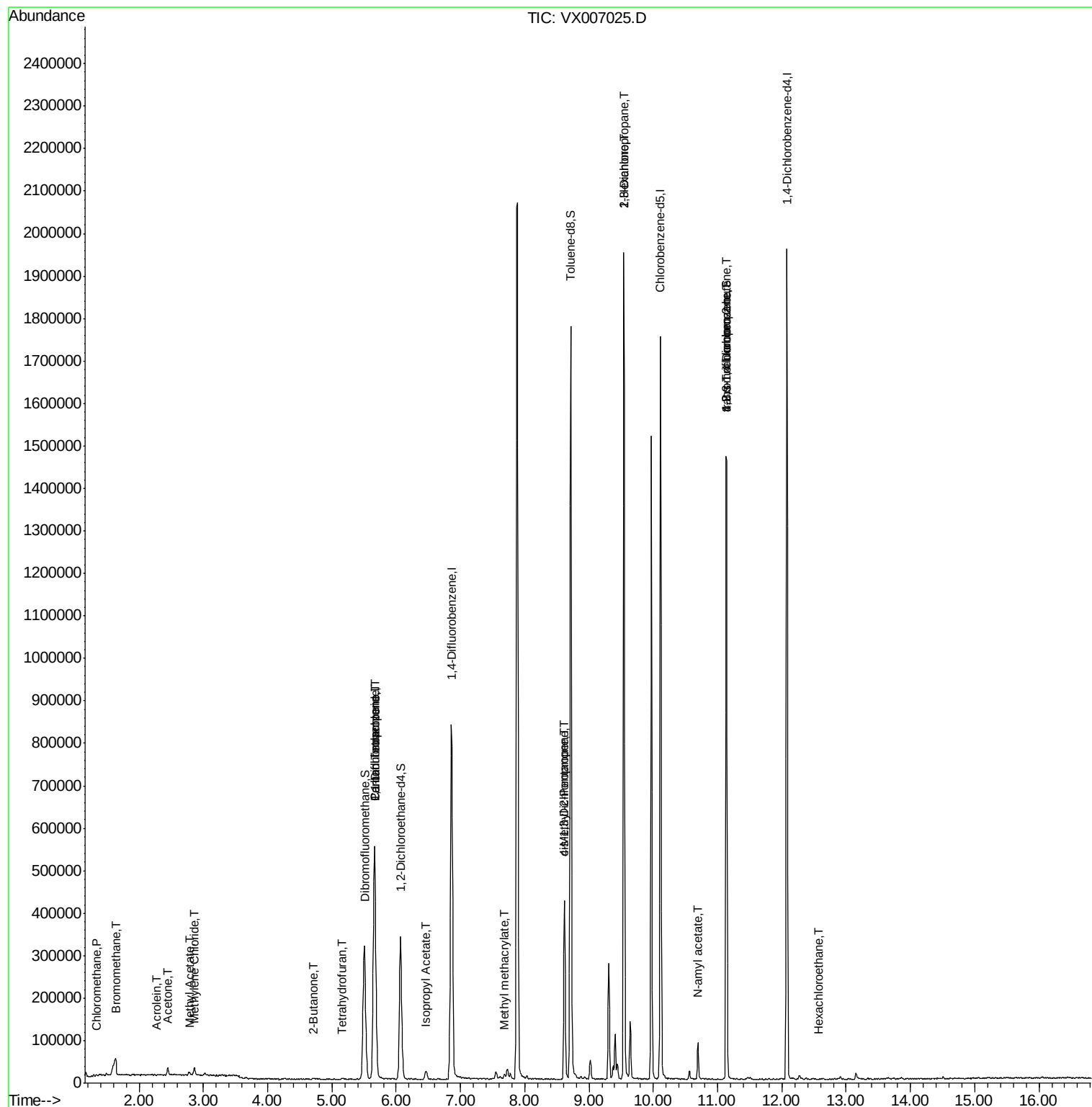
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1256	0.231	ug/l #	79
5) Bromomethane	1.64	94	1255	0.201	ug/l	98
13) Acrolein	2.28	56	395	3.729	ug/l #	66
16) Acetone	2.45	43	18151	6.179	ug/l	97
18) Methyl Acetate	2.78	43	9390	1.104	ug/l	99
20) Methylene Chloride	2.86	84	8196	0.911	ug/l	90
25) 2-Butanone	4.71	43	2911	0.693	ug/l #	88
29) Tetrahydrofuran	5.15	42	2182	0.799	ug/l #	52
36) 1,1-Dichloropropene	5.66	75	37808	4.867	ug/l #	49
38) Carbon Tetrachloride	5.67	117	53029	6.785	ug/l #	14
43) Isopropyl Acetate	6.46	43	25916	1.973	ug/l #	94
48) Methyl methacrylate	7.68	41	12601	1.868	ug/l #	13
49) 1,4-Dioxane	7.73	88	232	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	133151	15.771	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	69197	7.926	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	16395	1.641	ug/l #	44
59) 2-Hexanone	9.54	43	209956	32.633	ug/l #	52
74) N-amyl acetate	10.69	43	20351	1.731	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	181433	21.624	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	181433	64.104	ug/l #	10
90) Hexachloroethane	12.57	117	25	2.914	ug/l	94

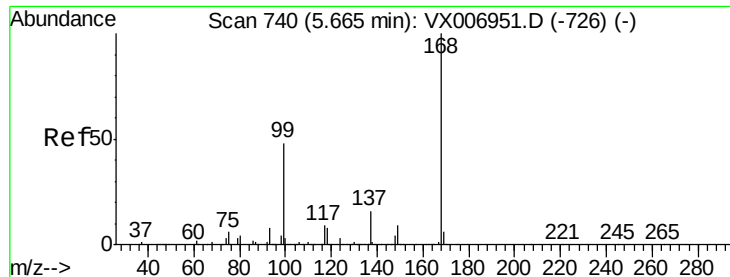
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

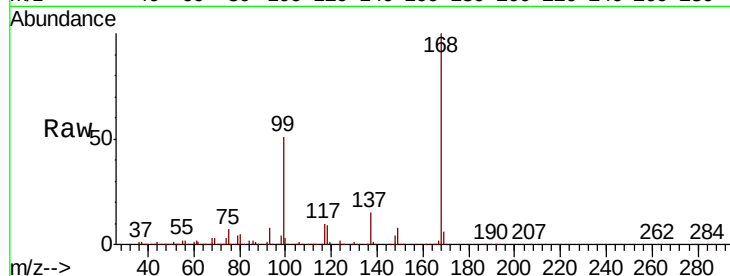
S49-IDW03

Tgt Ion:168 Resp: 568595

Ion Ratio Lower Upper

168 100

99 50.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

150000

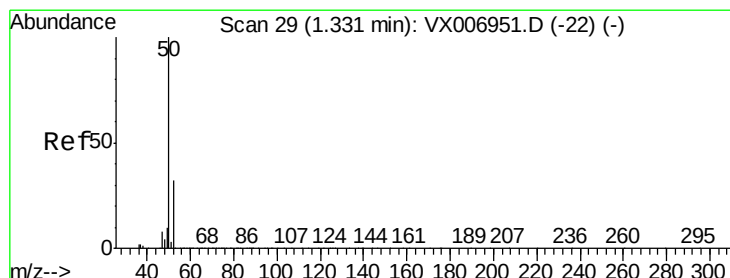
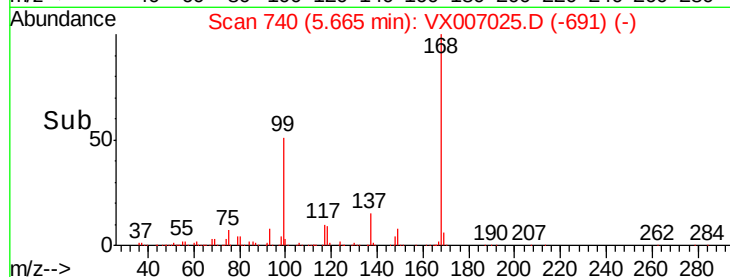
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.231 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007025.D

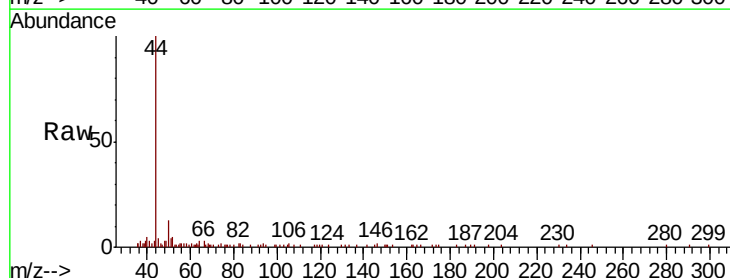
Acq: 11 Jan 2019 20:23

Tgt Ion: 50 Resp: 1256

Ion Ratio Lower Upper

50 100

52 19.9 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1200

1000

800

600

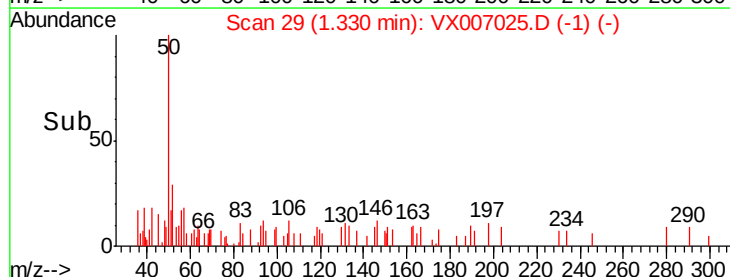
400

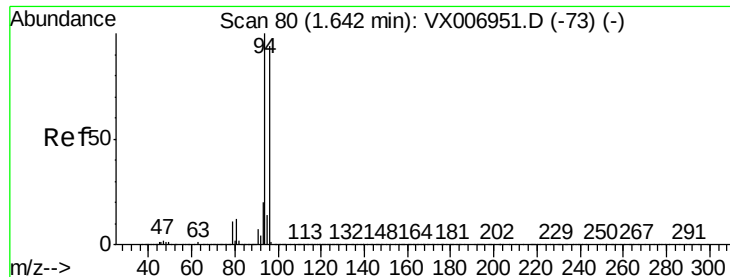
200

0

Time-->

1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.201 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampled :

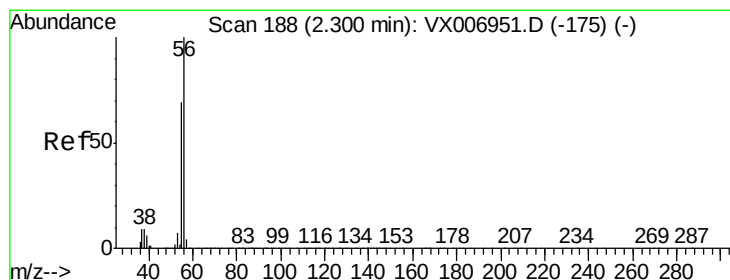
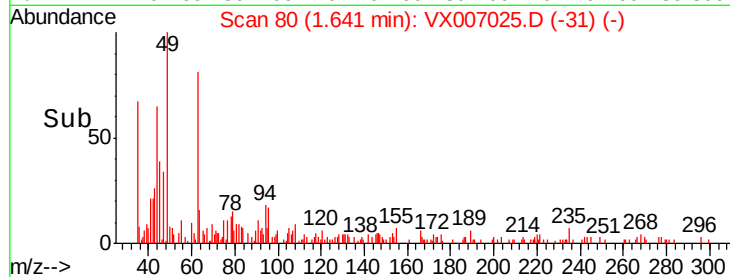
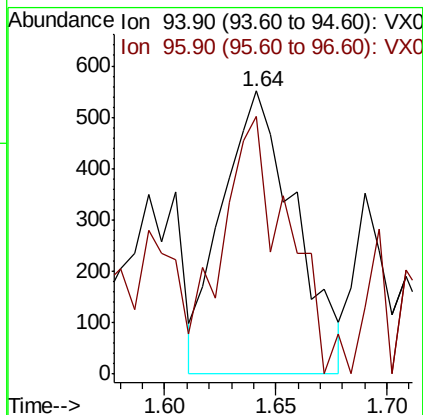
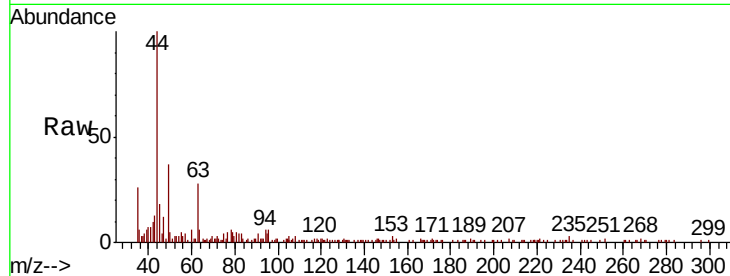
S49-IDW03

Tgt Ion: 94 Resp: 1255

Ion Ratio Lower Upper

94 100

96 93.6 73.4 110.2



#13

Acrolein

Concen: 3.729 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX007025.D

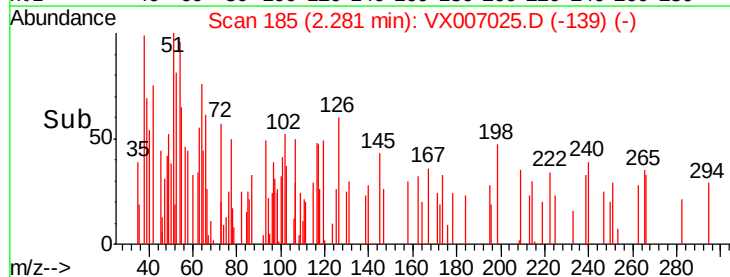
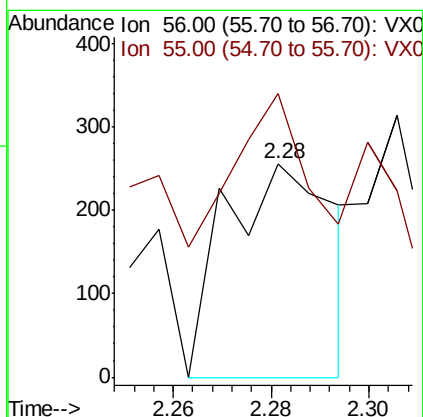
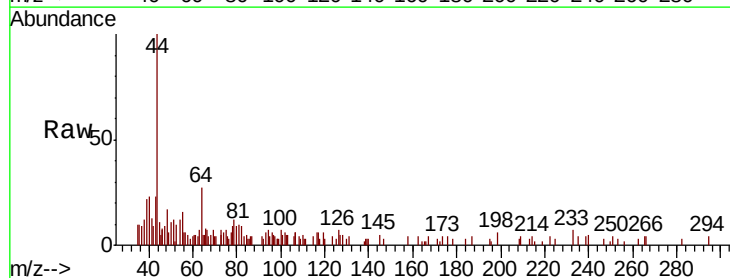
Acq: 11 Jan 2019 20:23

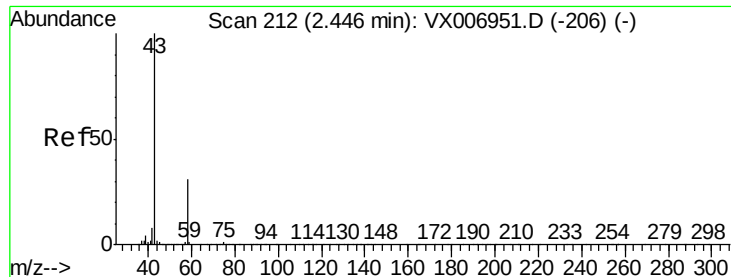
Tgt Ion: 56 Resp: 395

Ion Ratio Lower Upper

56 100

55 44.1 58.2 87.4#

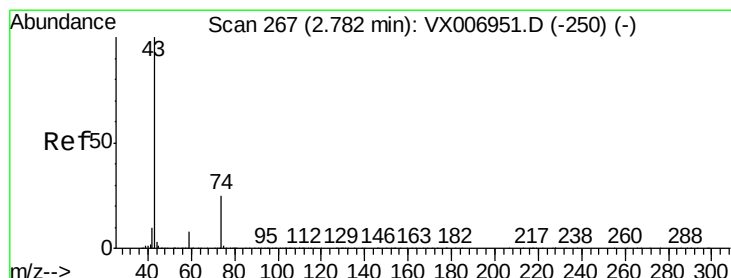
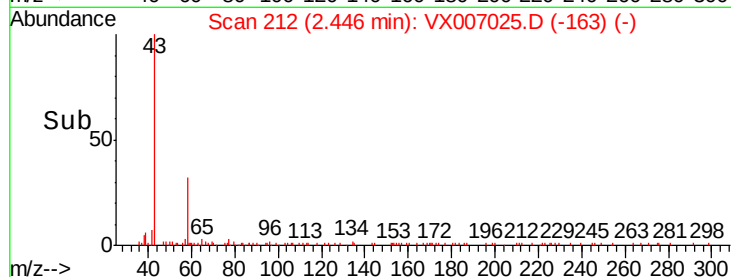
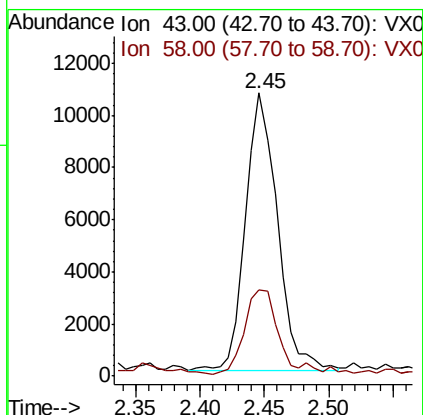
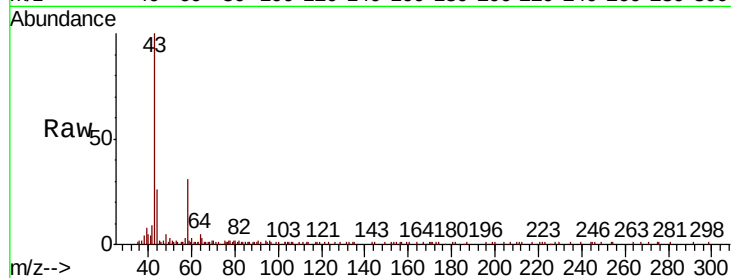




#16
Acetone
Concen: 6.179 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

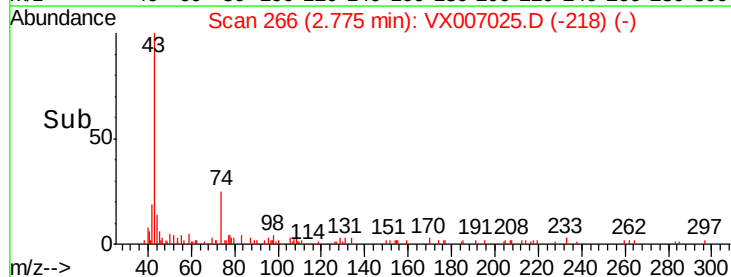
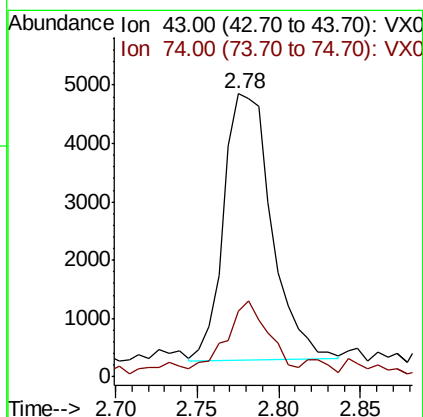
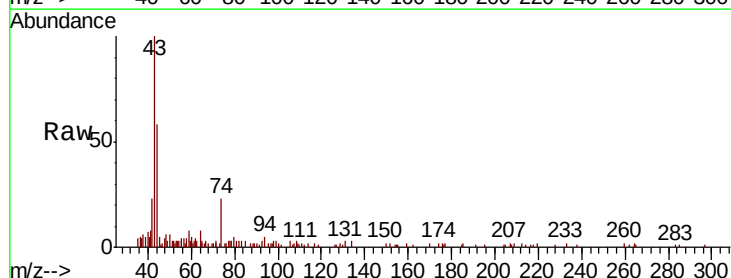
Instrument :
MSVOA_X
ClientSampleId :
S49-IDW03

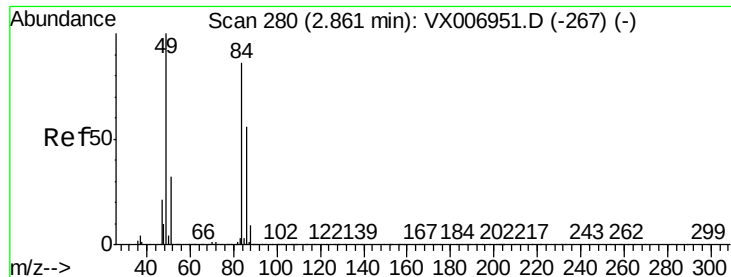
Tgt Ion: 43 Resp: 18151
Ion Ratio Lower Upper
43 100
58 29.7 25.0 37.6



#18
Methyl Acetate
Concen: 1.104 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

Tgt Ion: 43 Resp: 9390
Ion Ratio Lower Upper
43 100
74 22.9 18.6 28.0

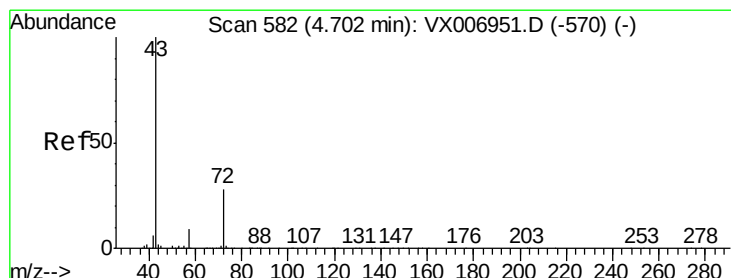
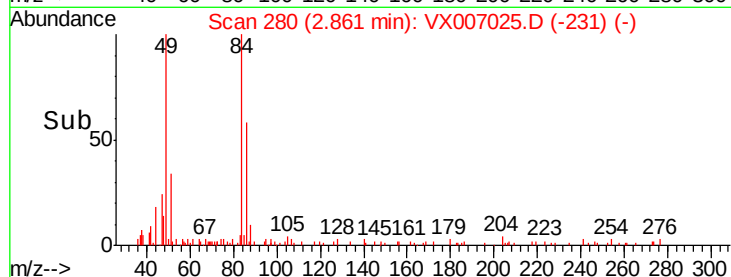
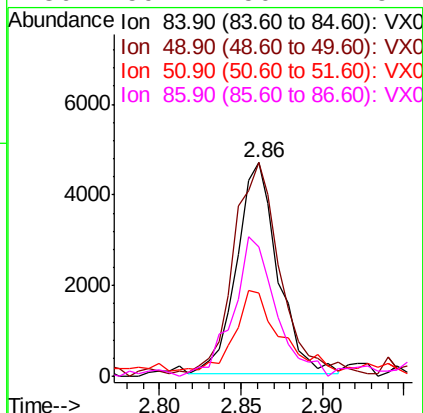
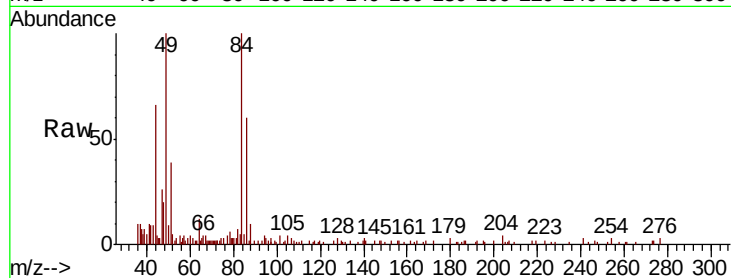




#20
Methylene Chloride
Concen: 0.911 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

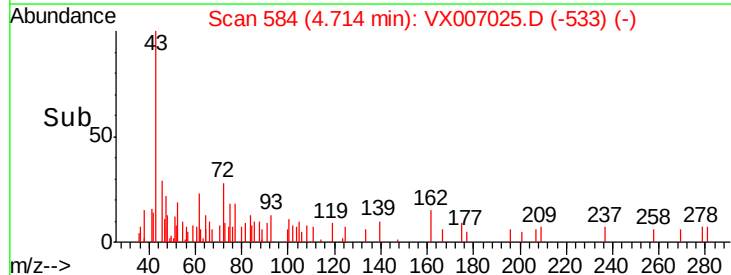
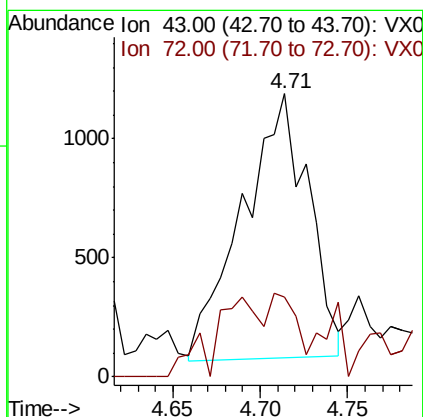
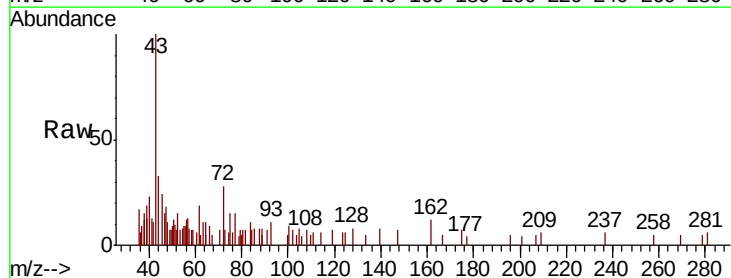
Instrument :
MSVOA_X
ClientSampleId :
S49-IDW03

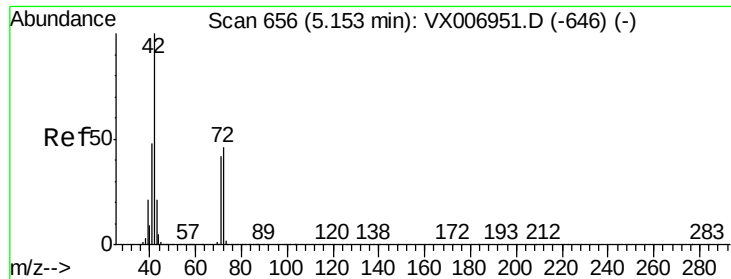
Tgt Ion:	84	Resp:	8196
Ion	Ratio	Lower	Upper
84	100		
49	99.2	91.8	137.6
51	37.3	28.5	42.7
86	59.2	50.2	75.2



#25
2-Butanone
Concen: 0.693 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

Tgt Ion:	43	Resp:	2911
Ion	Ratio	Lower	Upper
43	100		
72	21.9	22.4	33.6#

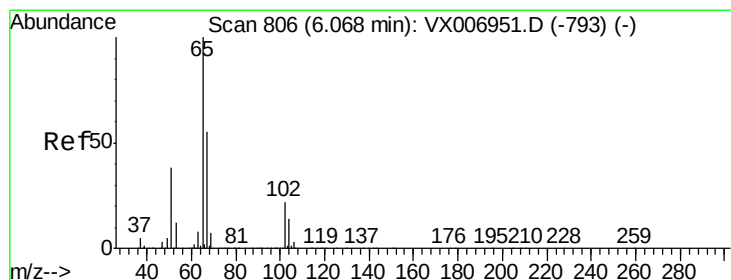
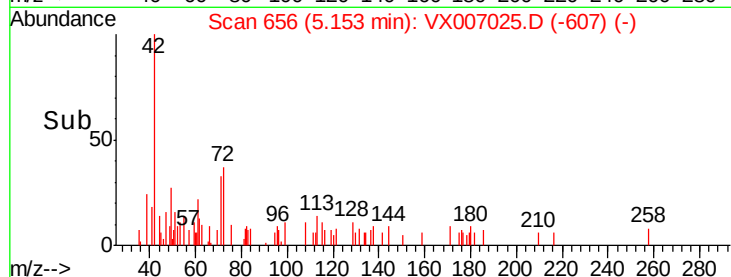
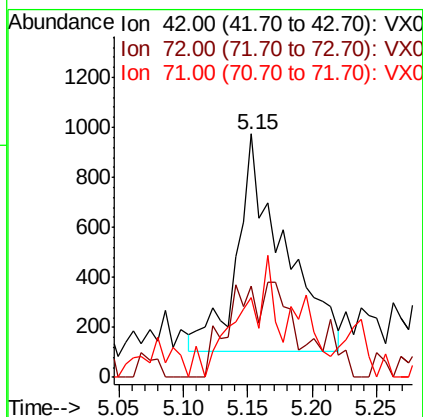
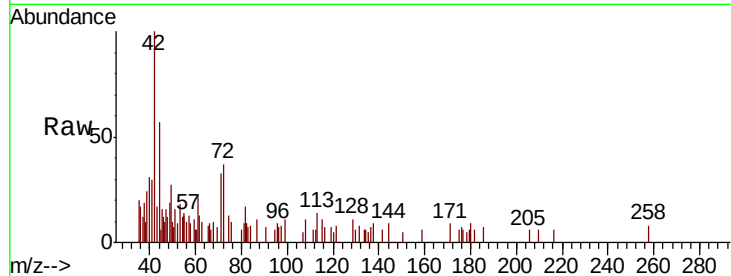




#29
Tetrahydrofuran
Concen: 0.799 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

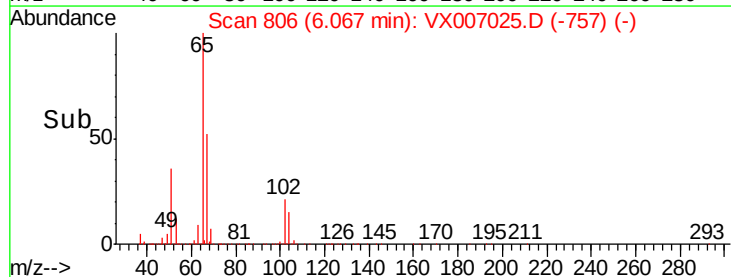
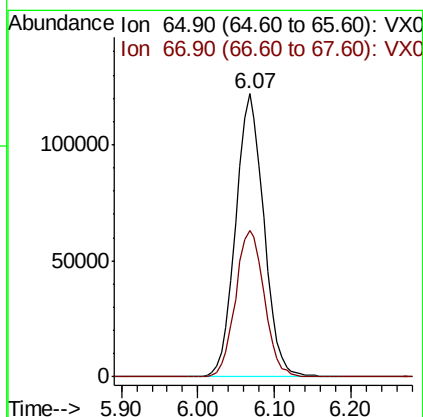
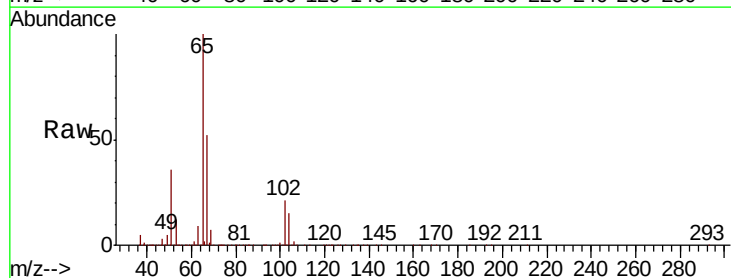
Instrument :
MSVOA_X
ClientSampleId :
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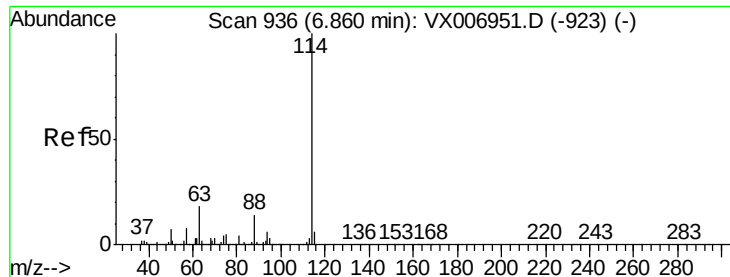
Tgt Ion: 42 Resp: 2182
Ion Ratio Lower Upper
42 100
72 29.5 38.9 58.3#
71 0.0 36.2 54.4#



#33
1,2-Dichloroethane-d4
Concen: 52.251 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

Tgt Ion: 65 Resp: 310492
Ion Ratio Lower Upper
65 100
67 52.9 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

S49-IDW03

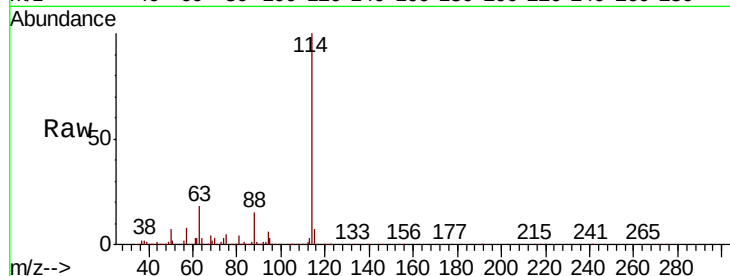
Tgt Ion:114 Resp: 893541

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

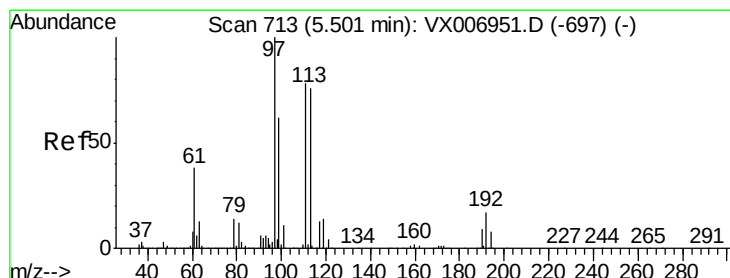
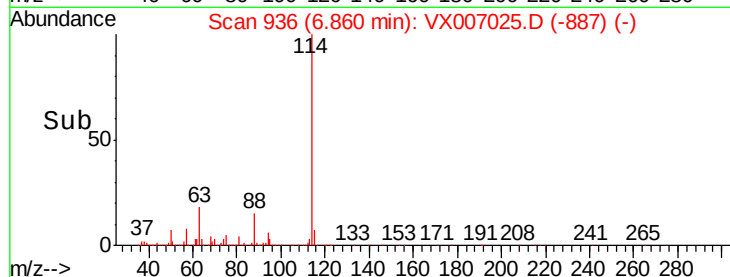
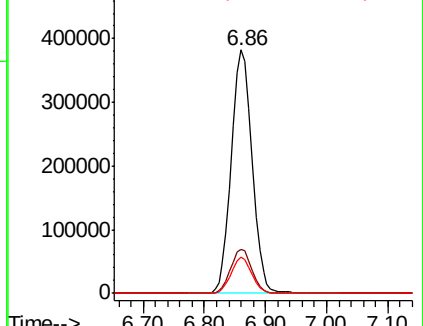
88 15.0 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.870 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

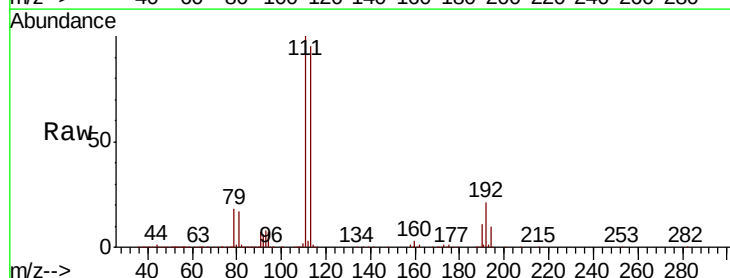
Tgt Ion:113 Resp: 268199

Ion Ratio Lower Upper

113 100

111 102.7 81.6 122.4

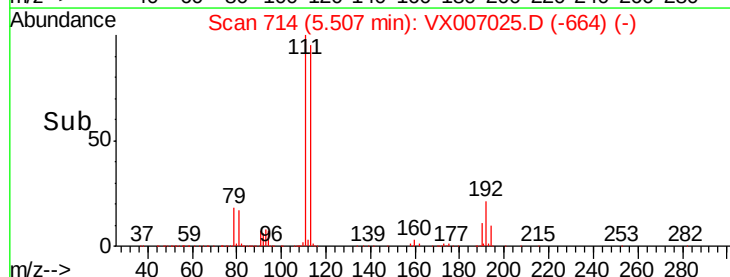
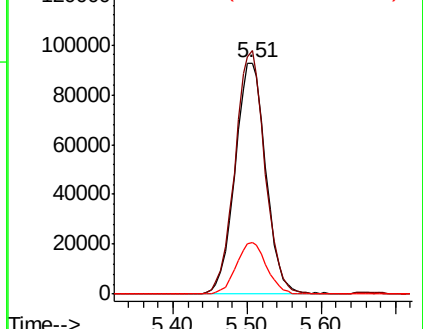
192 22.1 16.7 25.1

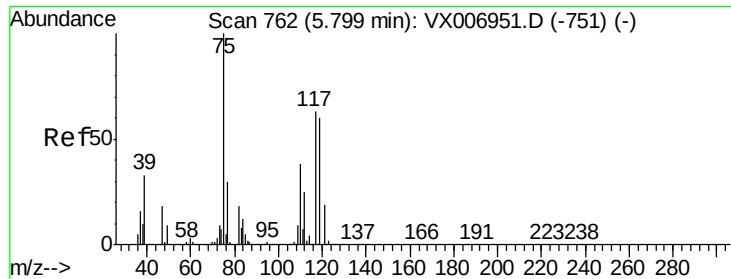


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

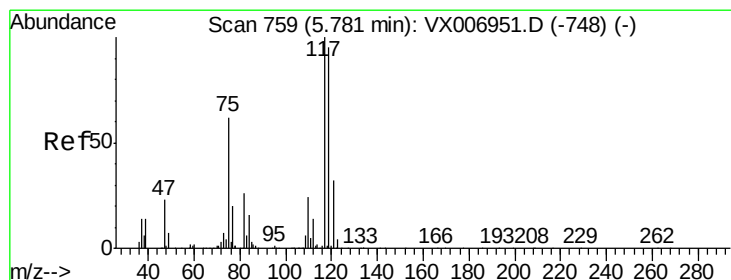
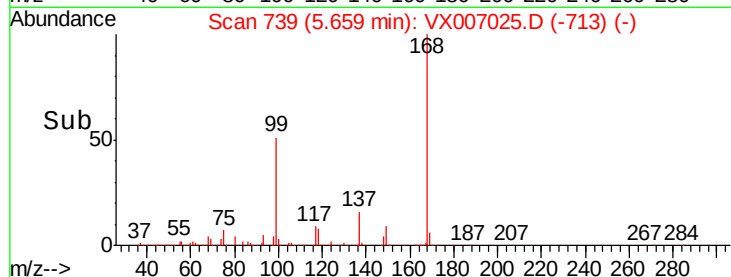
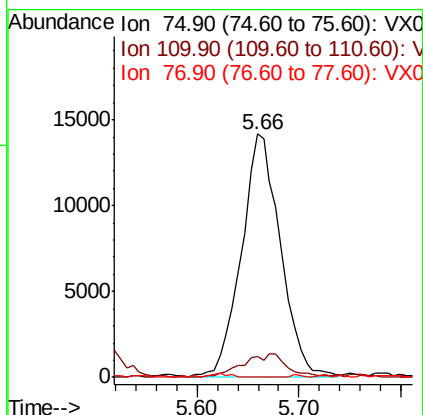
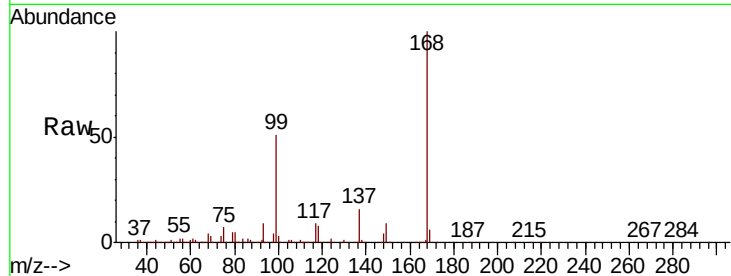




#36
 1,1-Dichloropropene
 Concen: 4.867 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007025.D
 Acq: 11 Jan 2019 20:23

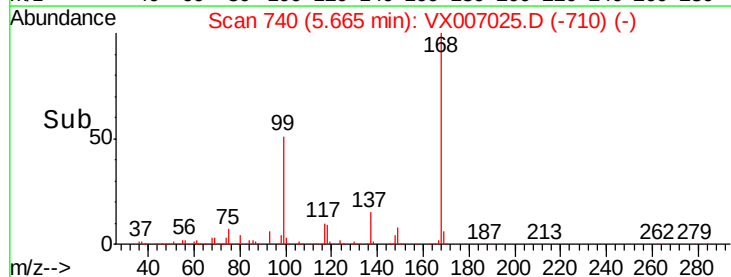
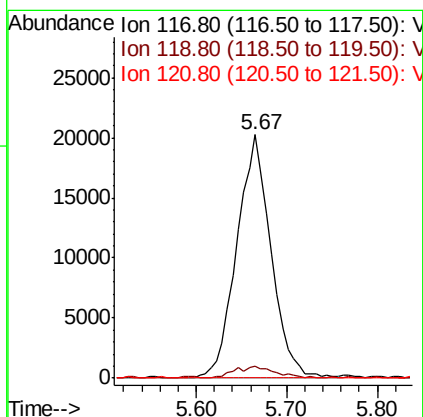
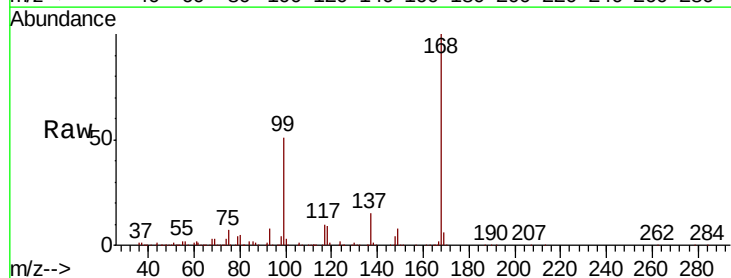
Instrument :
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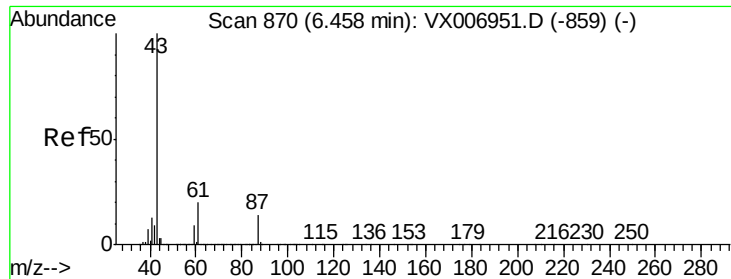
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.2	60.5#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.785 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007025.D
 Acq: 11 Jan 2019 20:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	79.4	119.2#
121	0.0	24.0	36.0#





#43

Isopropyl Acetate

Concen: 1.973 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

S49-IDW03

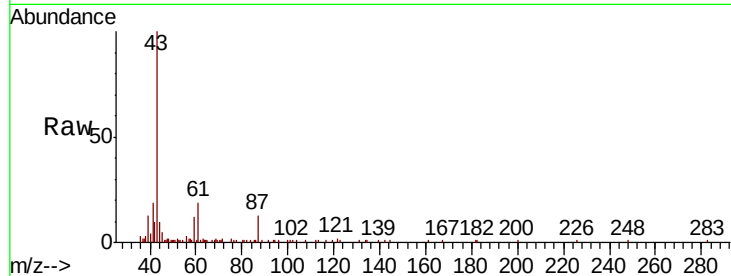
Tgt Ion: 43 Resp: 25916

Ion Ratio Lower Upper

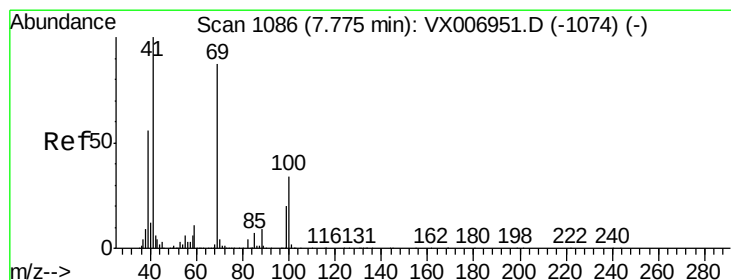
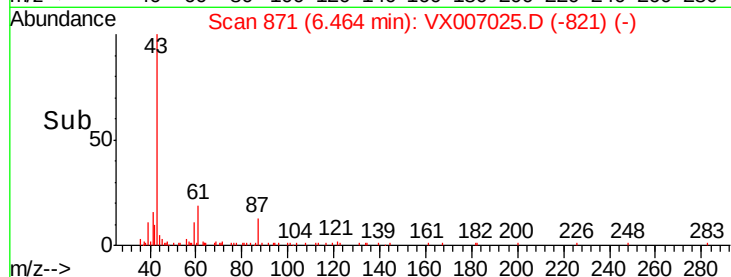
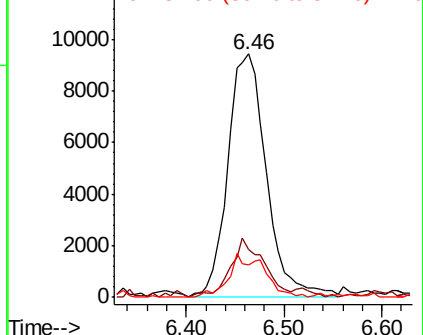
43 100

61 21.0 16.8 25.2

87 9.3 12.4 18.6#



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: 1.868 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

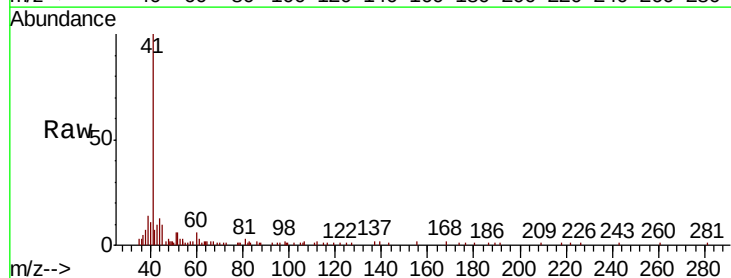
Tgt Ion: 41 Resp: 12601

Ion Ratio Lower Upper

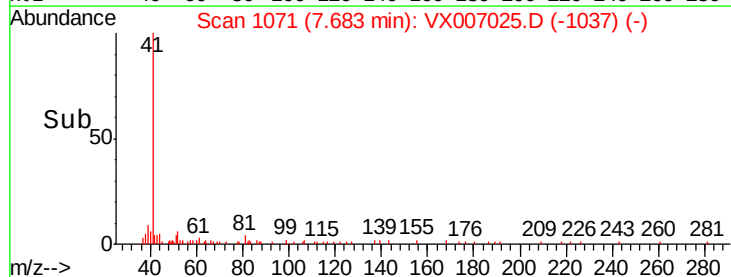
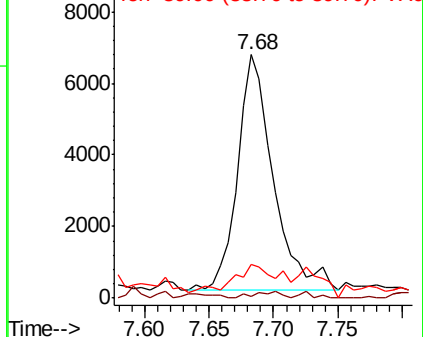
41 100

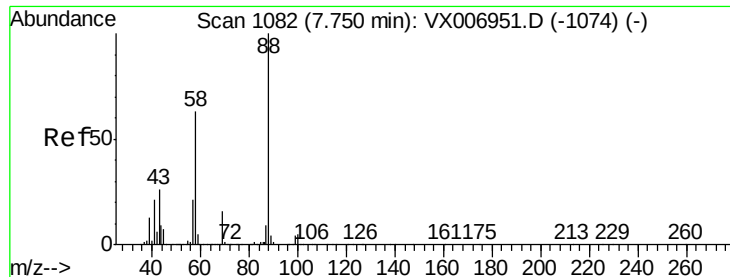
69 2.1 72.4 108.6#

39 0.0 45.8 68.8#



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: Below Cal

RT: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

S49-IDW03

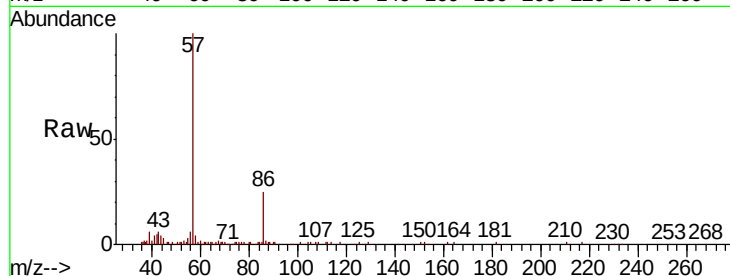
Tgt Ion: 88 Resp: 232

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

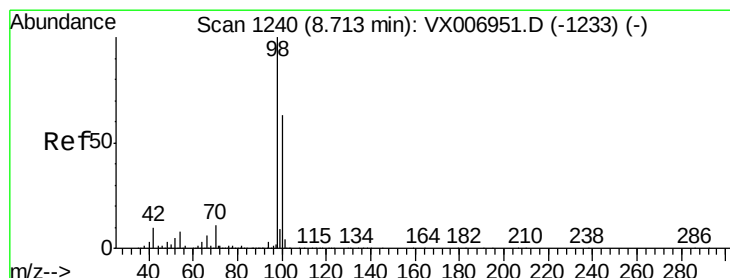
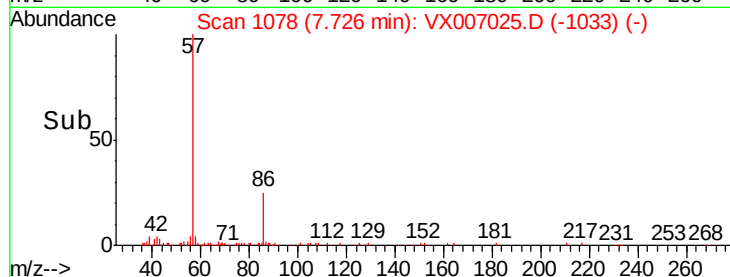
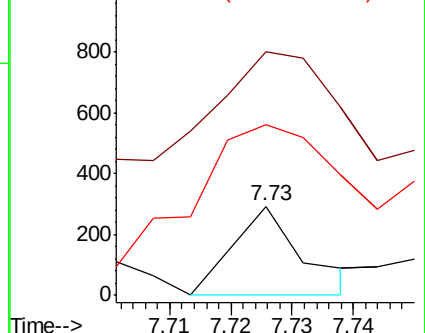
58 573.7 51.0 76.4#



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: 51.493 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007025.D

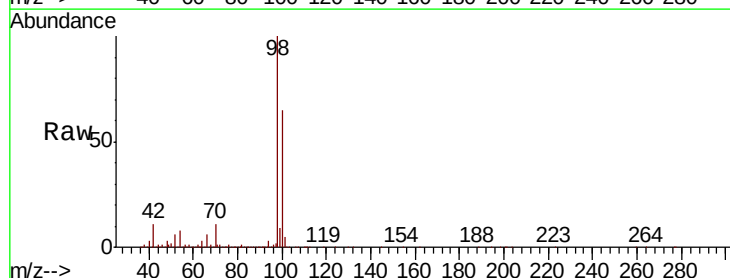
Acq: 11 Jan 2019 20:23

Tgt Ion: 98 Resp: 1078527

Ion Ratio Lower Upper

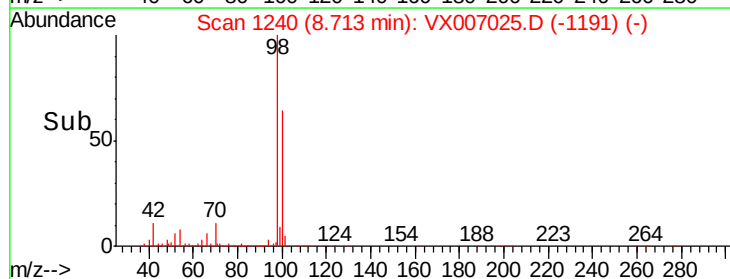
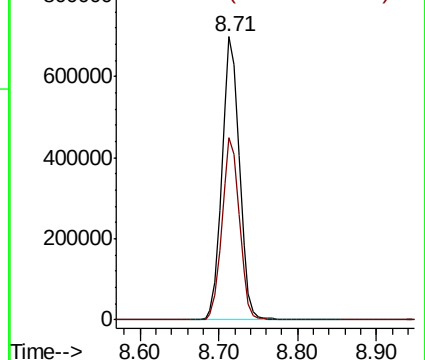
98 100

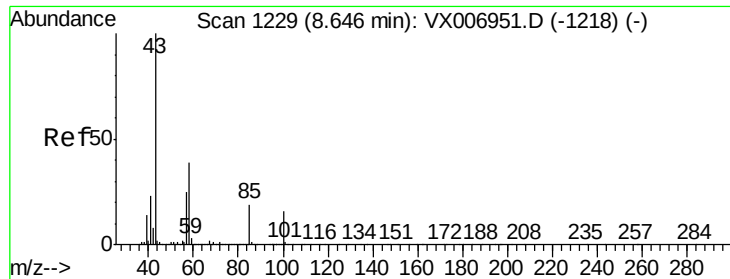
100 64.1 52.0 78.0



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: 15.771 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

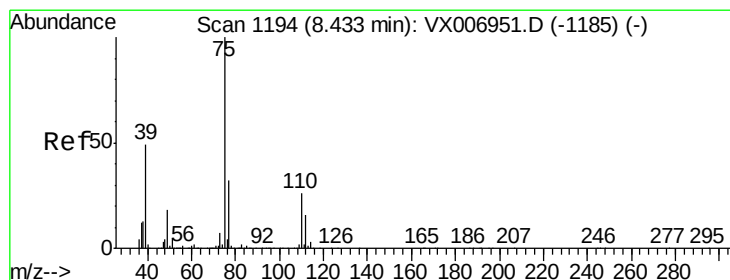
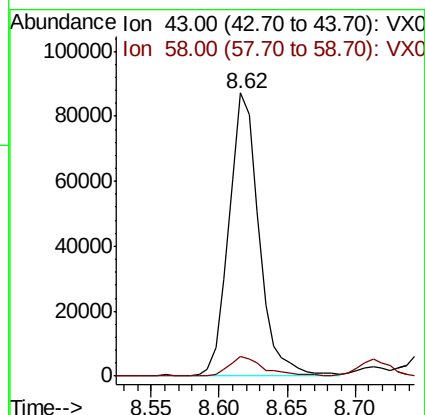
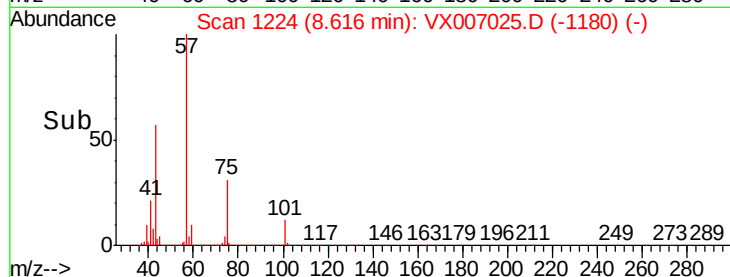
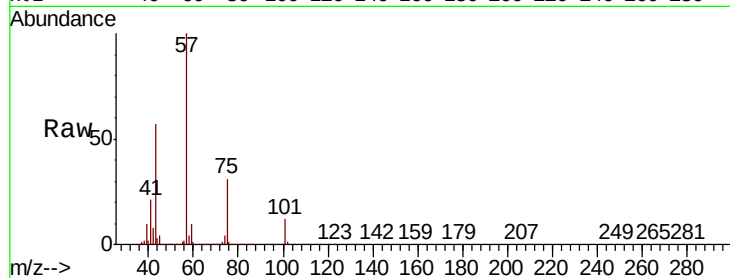
S49-IDW03

Tgt Ion: 43 Resp: 133151

Ion Ratio Lower Upper

43 100

58 8.3 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 7.926 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

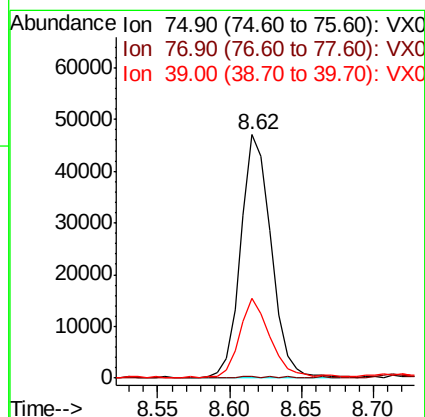
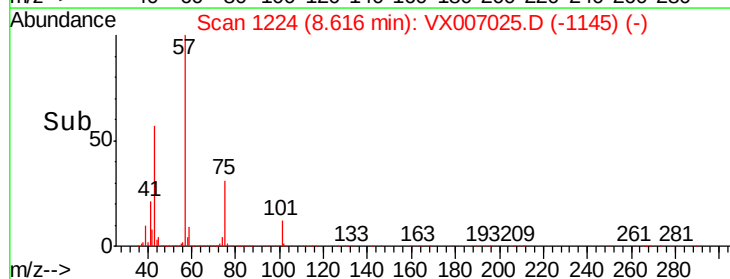
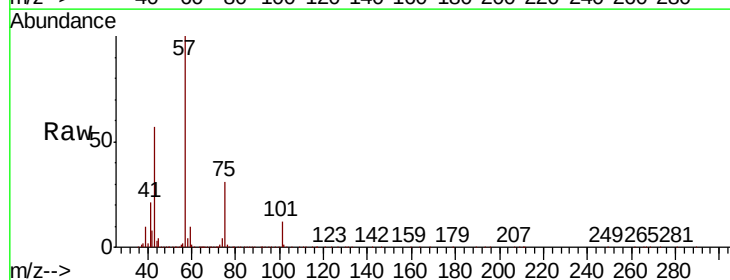
Tgt Ion: 75 Resp: 69197

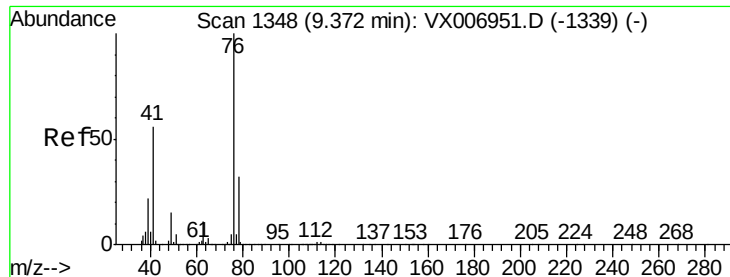
Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.2#

39 32.0 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.641 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampled :

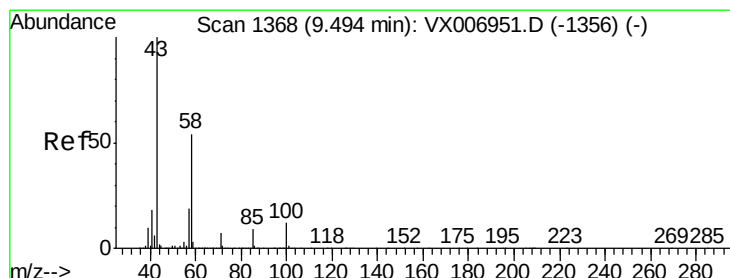
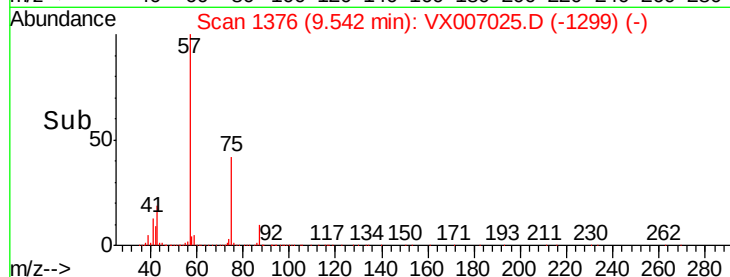
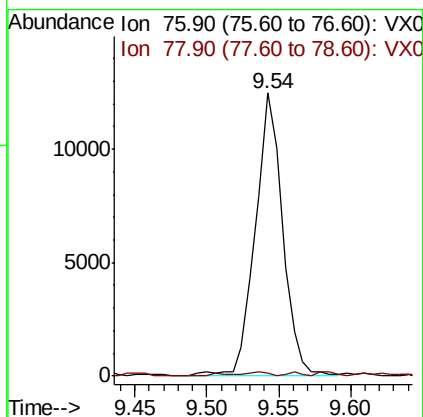
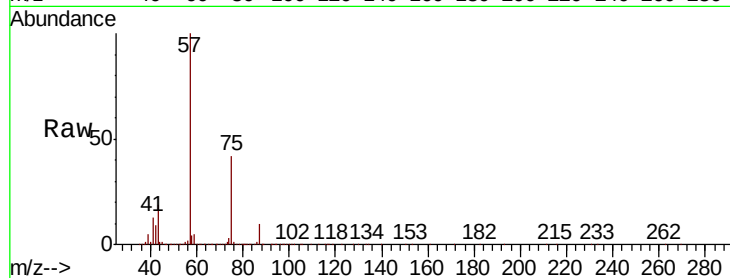
S49-IDW03

Tgt Ion: 76 Resp: 16395

Ion Ratio Lower Upper

76 100

78 0.9 26.0 39.0#



#59

2-Hexanone

Concen: 32.633 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007025.D

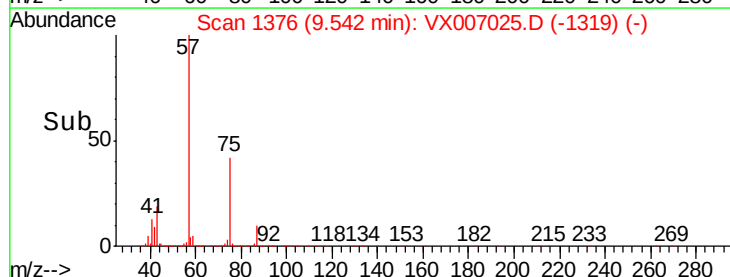
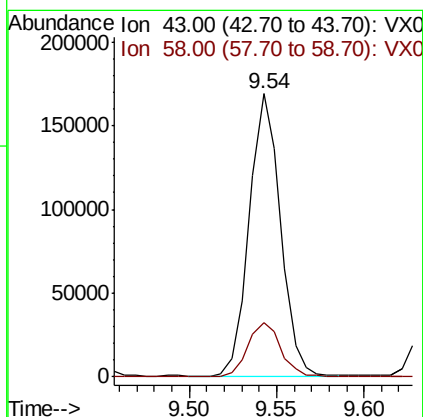
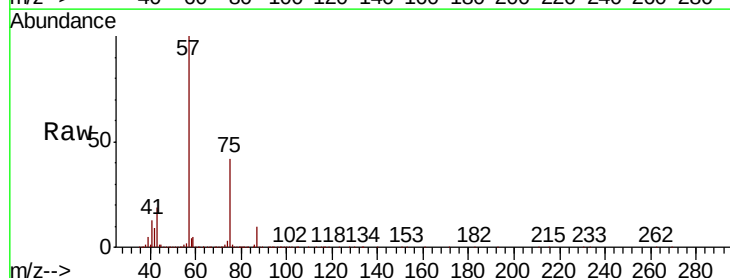
Acq: 11 Jan 2019 20:23

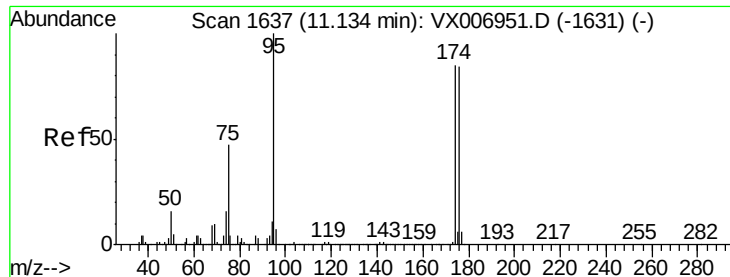
Tgt Ion: 43 Resp: 209956

Ion Ratio Lower Upper

43 100

58 20.6 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 53.190 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

S49-IDW03

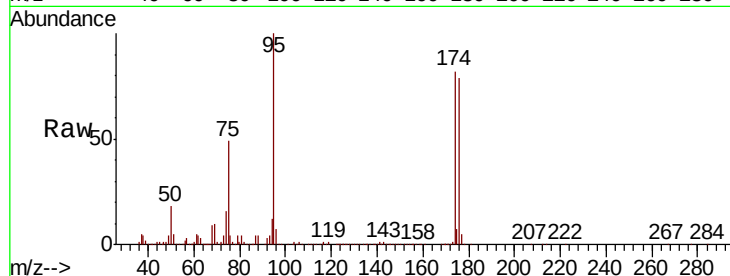
Tgt Ion: 95 Resp: 388391

Ion Ratio Lower Upper

95 100

174 91.6 0.0 182.2

176 88.6 0.0 178.8

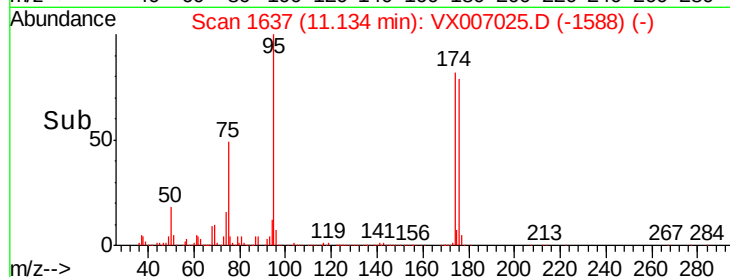


Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)

Time-->

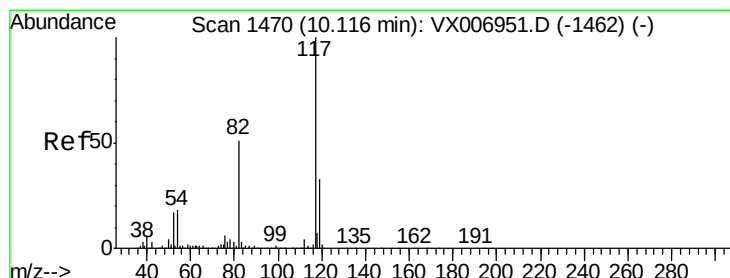


Abundance Ion 94.90 (94.60 to 95.60): VX007025.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX007025.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX007025.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

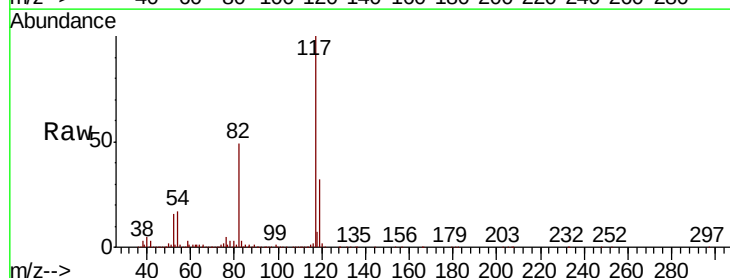
Tgt Ion: 117 Resp: 857055

Ion Ratio Lower Upper

117 100

82 49.4 41.0 61.6

119 31.9 25.4 38.0

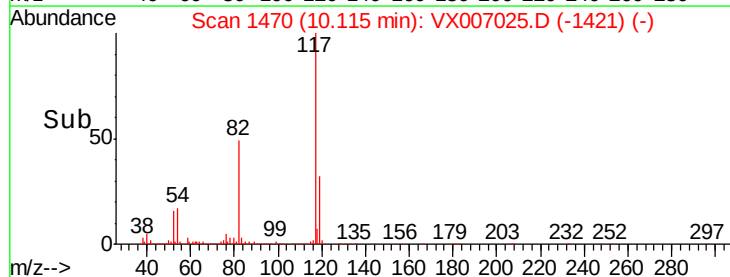


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)

Time-->

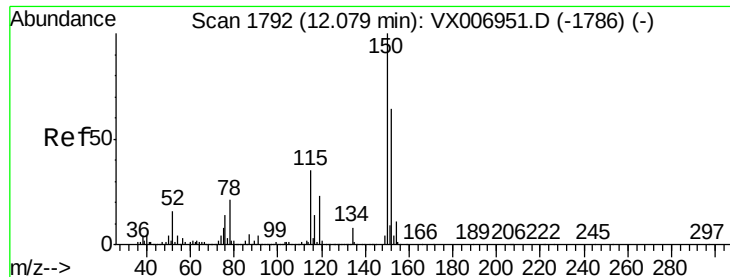


Abundance Ion 116.90 (116.60 to 117.60): VX007025.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX007025.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX007025.D (-1421) (-)

Time-->

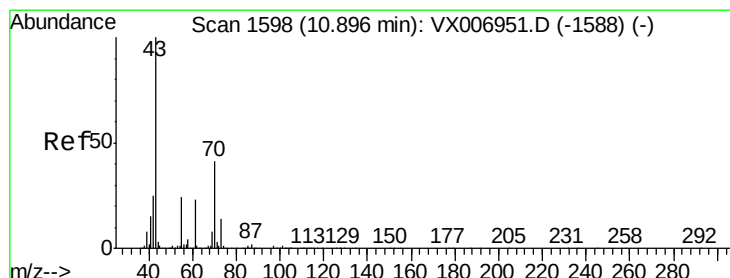
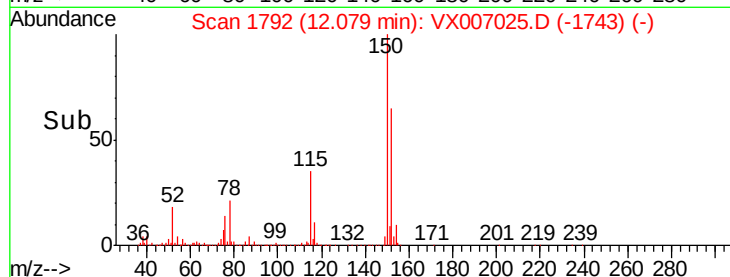
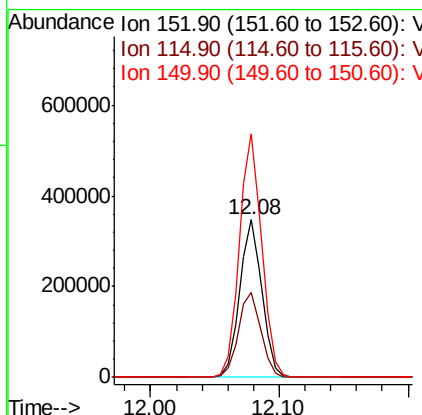
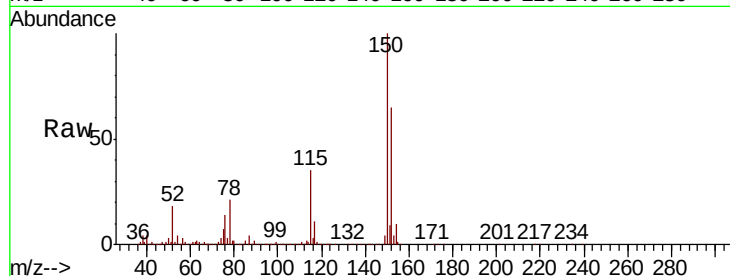


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
S49-IDW03

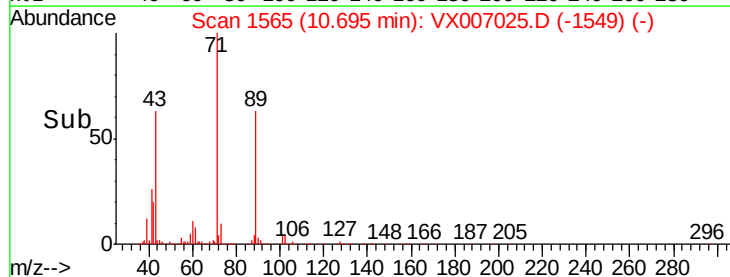
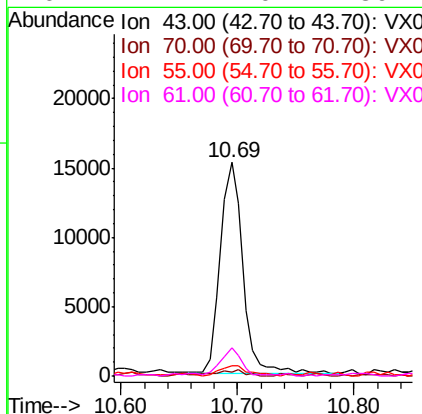
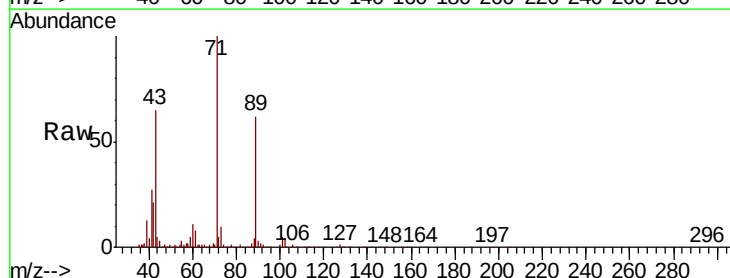
Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	39.1	117.2
150	155.8	0.0	344.8

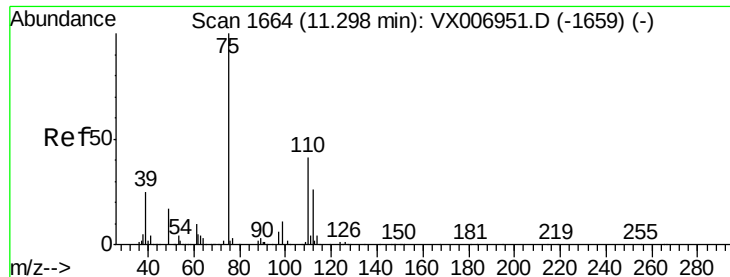


#74

N-ethyl acetate
Concen: 1.731 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX007025.D
Acq: 11 Jan 2019 20:23

Tgt Ion	Ratio	Lower	Upper
43	100		
70	3.5	35.8	53.8#
55	6.3	19.4	29.0#
61	11.2	20.1	30.1#





#76

1,2,3-Trichloropropane

Concen: 21.624 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

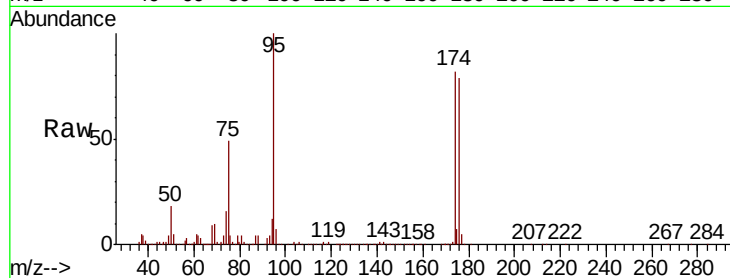
S49-IDW03

Tgt Ion: 75 Resp: 181433

Ion Ratio Lower Upper

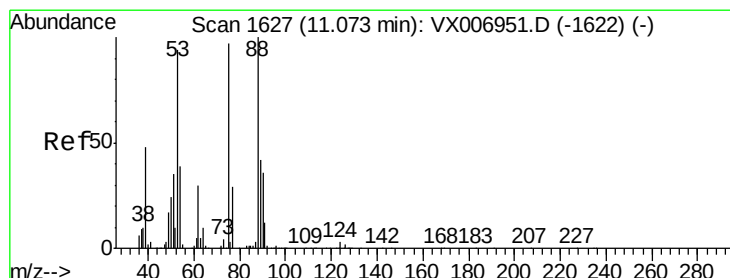
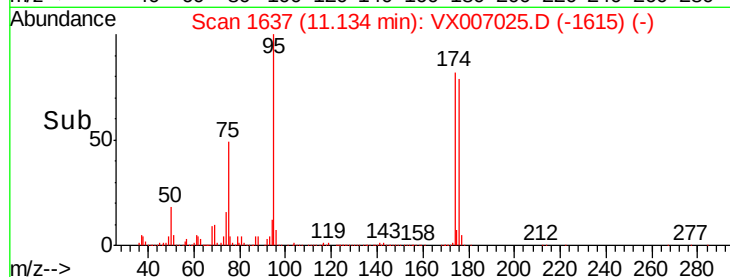
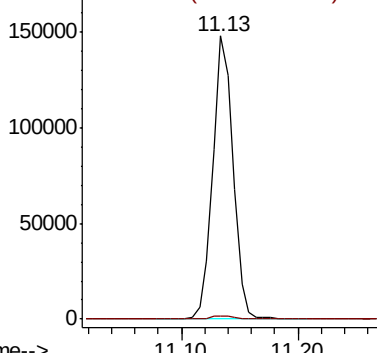
75 100

77 1.4 18.5 55.5#



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: 64.104 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

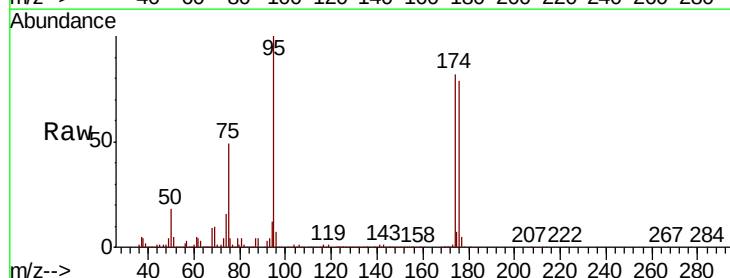
Tgt Ion: 75 Resp: 181433

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

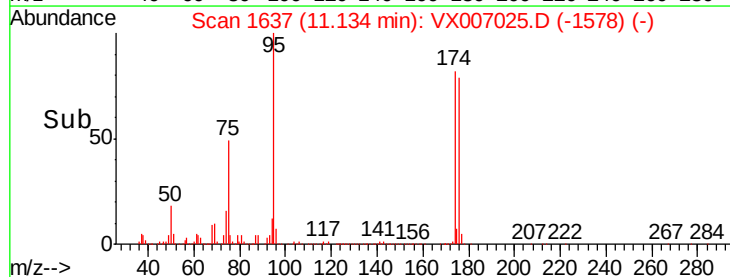
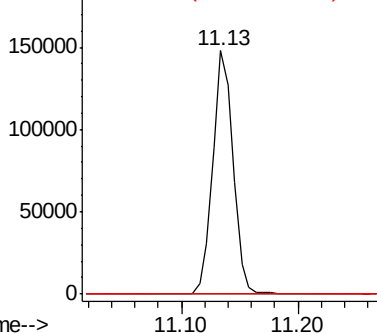
89 0.0 38.0 57.0#

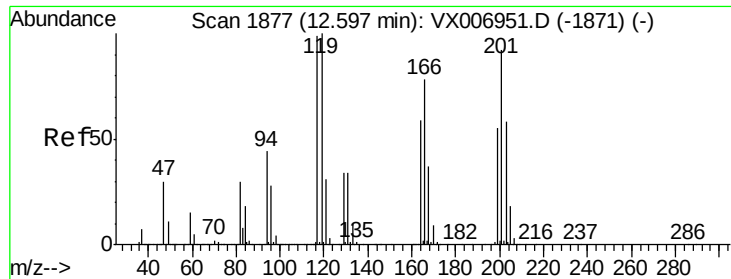


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.914 ug/l

RT: 12.57 min Scan# 1872

Delta R.T. -0.03 min

Lab File: VX007025.D

Acq: 11 Jan 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

S49-IDW03

Tgt Ion:117 Resp: 25

Ion Ratio Lower Upper

117 100

201 80.0 42.9 128.7

