

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091318\
 Data File : VX004513.D
 Acq On : 13 Sep 2018 13:54
 Operator : JC/MD
 Sample : J4873-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-1

Quant Time: Sep 14 03:53:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	251146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	350483	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	182534	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	170492	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
35) Dibromofluoromethane	5.51	113	138542	43.20	ug/l	0.00
Spiked Amount			Recovery	=	86.40%	
50) Toluene-d8	8.71	98	543759	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.14	95	174586	45.47	ug/l	0.00
Spiked Amount			Recovery	=	90.94%	

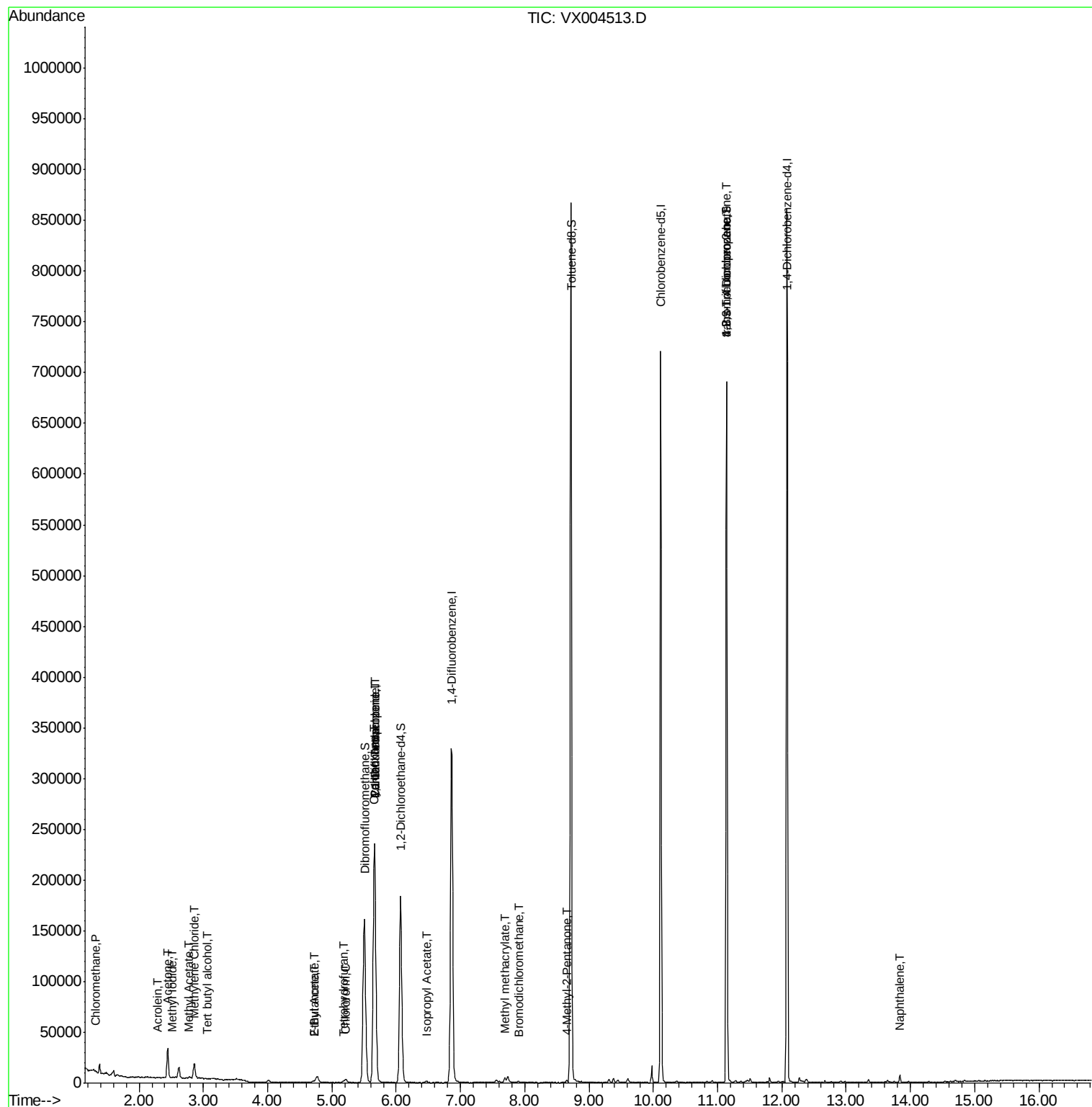
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	729	0.23	ug/l	97
5) Bromomethane	1.64	94	1013	Below Cal	#	77
10) Methyl Iodide	2.51	142	789	4.47	ug/l	# 89
11) Tert butyl alcohol	3.06	59	524	0.68	ug/l	# 72
13) Acrolein	2.29	56	222	0.73	ug/l	# 41
16) Acetone	2.45	43	30153	19.08	ug/l	93
18) Methyl Acetate	2.78	43	1228	0.28	ug/l	# 87
20) Methylene Chloride	2.86	84	6852	2.11	ug/l	95
25) 2-Butanone	4.71	43	3520	1.40	ug/l	# 85
29) Tetrahydrofuran	5.18	42	969	0.64	ug/l	# 89
30) Chloroform	5.21	83	3790	0.71	ug/l	99
31) Cyclohexane	5.65	56	4047	0.86	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	16296	3.83	ug/l	# 49
37) Ethyl Acetate	4.71	43	3520	0.73	ug/l	# 67
38) Carbon Tetrachloride	5.66	117	22064	5.31	ug/l	# 15
43) Isopropyl Acetate	6.46	43	2264	0.35	ug/l	96
47) Bromodichloromethane	7.90	83	792	0.22	ug/l	# 87
48) Methyl methacrylate	7.69	41	5923	1.86	ug/l	# 19
51) 4-Methyl-2-Pentanone	8.65	43	1825	0.40	ug/l	# 84
76) 1,2,3-Trichloropropane	11.14	75	82015	22.33	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	82015	71.19	ug/l	# 10
95) Naphthalene	13.83	128	4658	0.37	ug/l	99

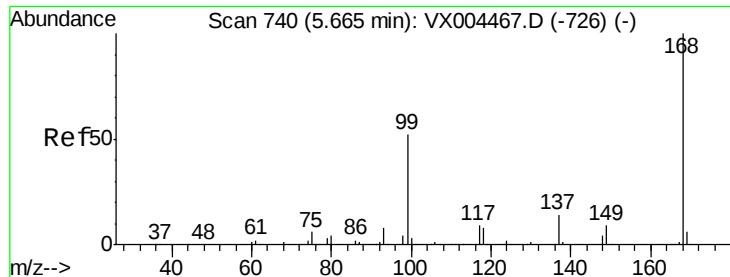
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 14 03:53:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

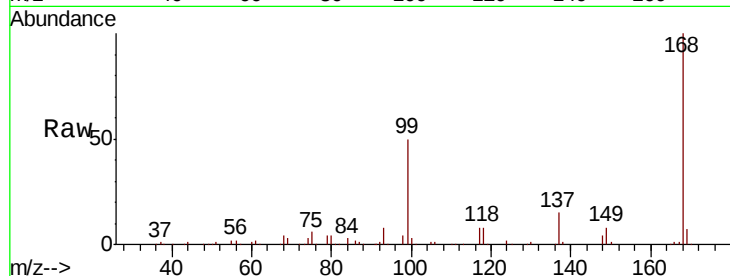
NF-CON-1

Tot Ion:168 Resp: 251146

Ion Ratio Lower Upper

168 100

99 49.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

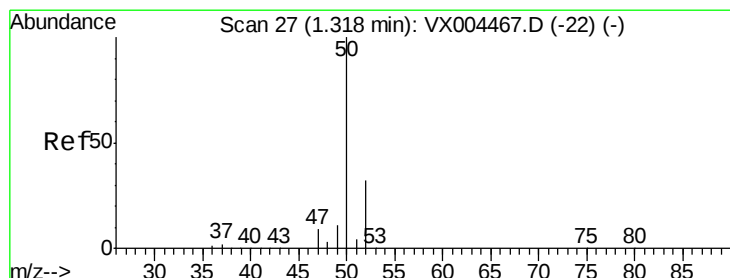
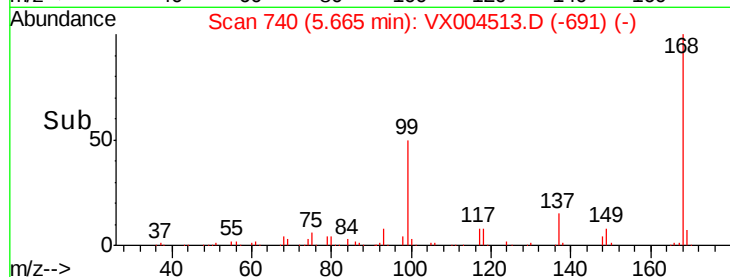
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004513.D

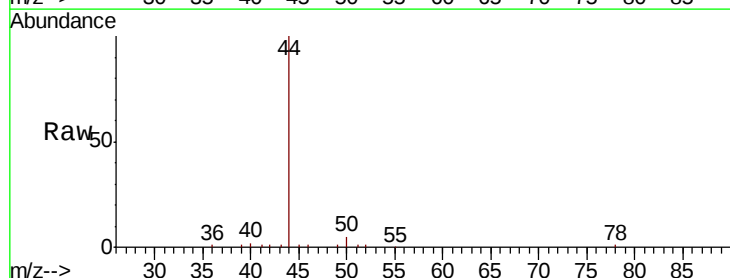
Acq: 13 Sep 2018 13:54

Tgt Ion: 50 Resp: 729

Ion Ratio Lower Upper

50 100

52 31.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

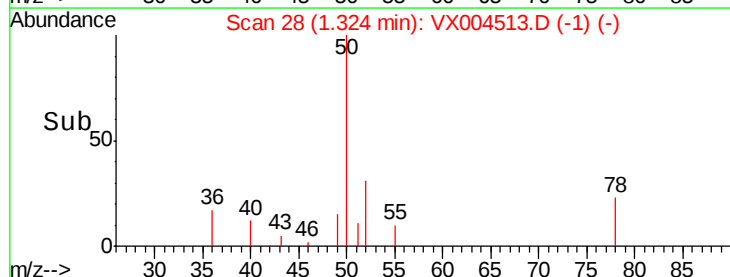
300

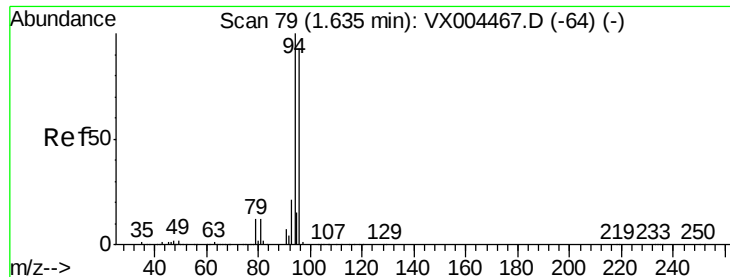
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

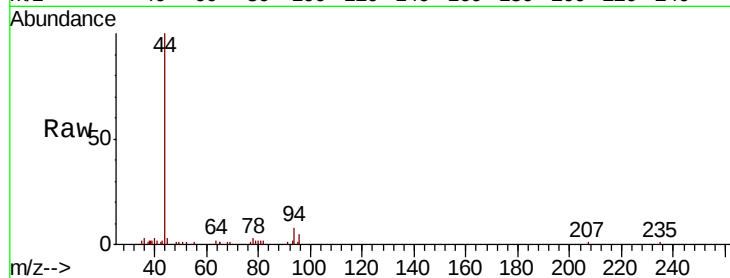
NF-CON-1

Tot Ion: 94 Resp: 1013

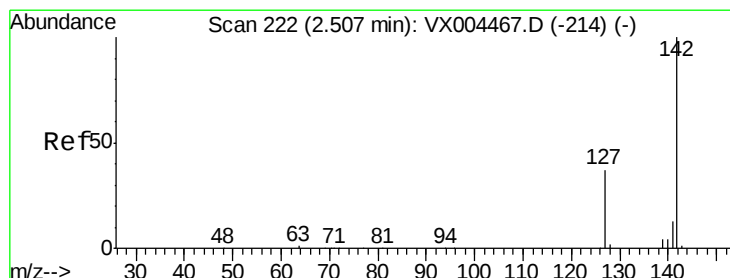
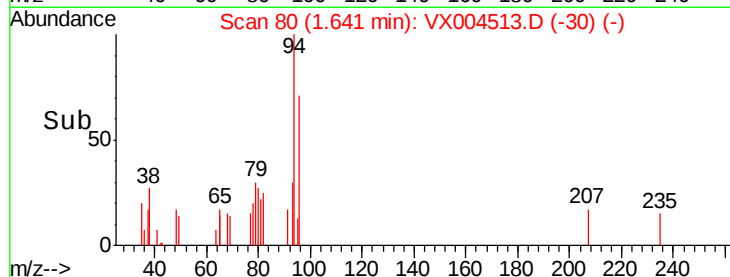
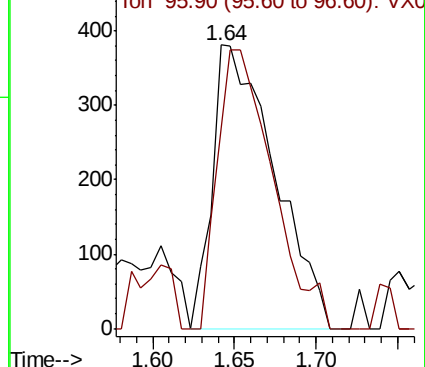
Ion Ratio Lower Upper

94 100

96 70.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#10

Methyl Iodide

Concen: 4.47 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

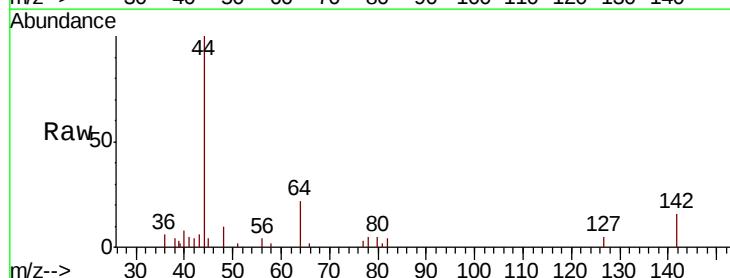
Tgt Ion: 142 Resp: 789

Ion Ratio Lower Upper

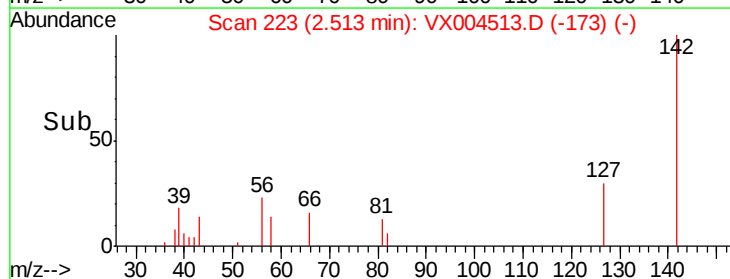
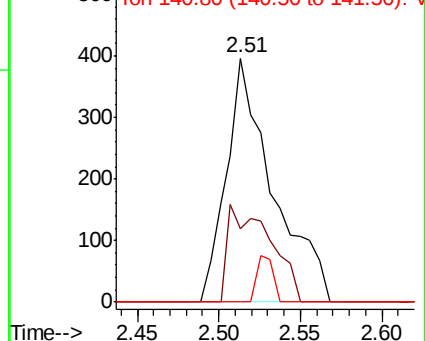
142 100

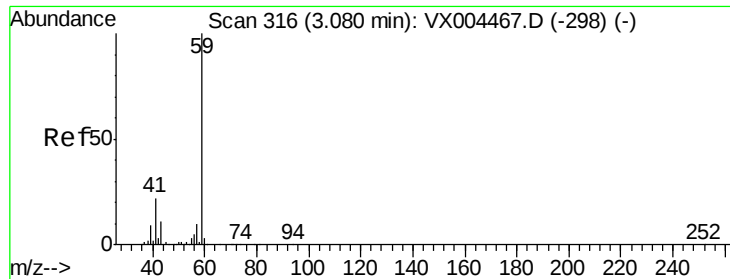
127 36.4 33.8 50.6

141 6.7 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

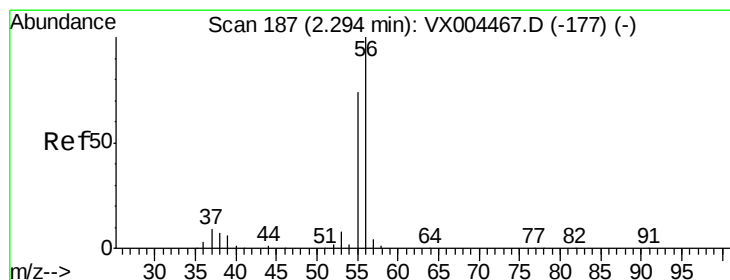
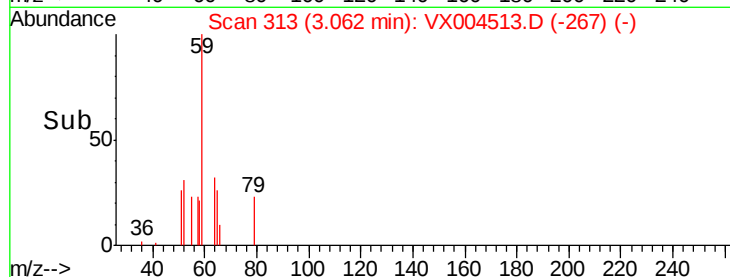
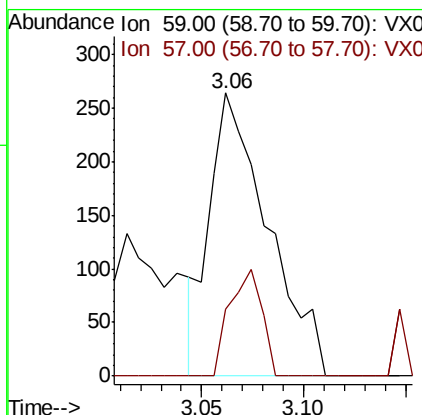
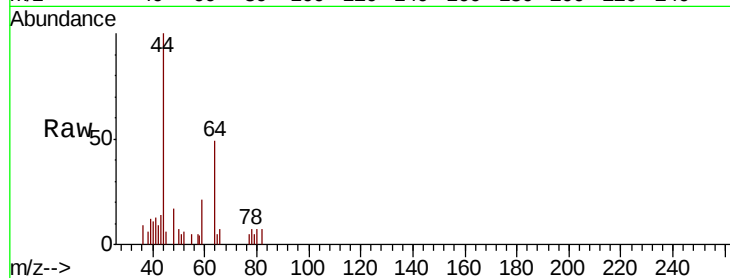




#11
Tert butvl alcohol
Concen: 0.68 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004513.D
Acq: 13 Sep 2018 13:54

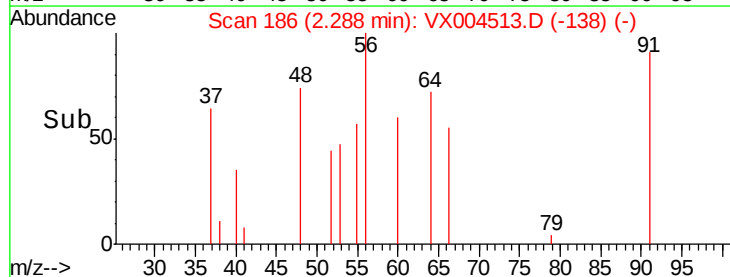
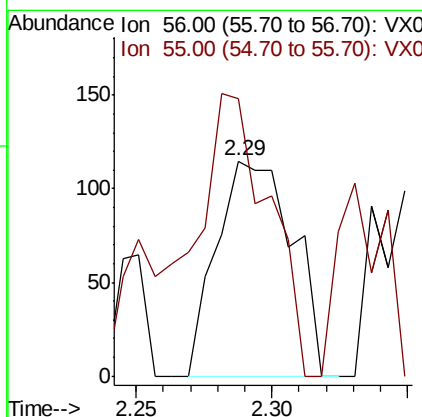
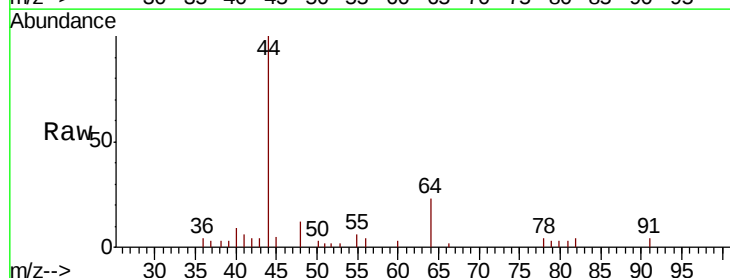
Instrument :
MSVOA_X
ClientSampled :
NF-CON-1

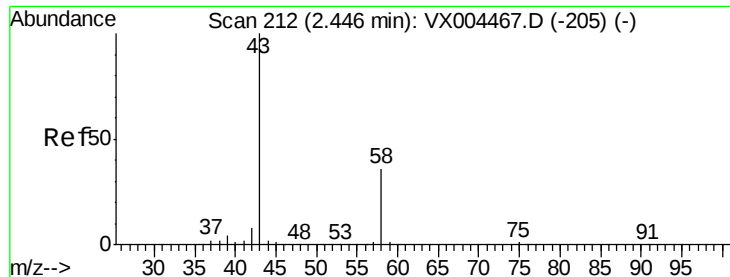
Tot Ion: 59 Resp: 524
Ion Ratio Lower Upper
59 100
57 20.6 8.2 12.4#



#13
Acrolein
Concen: 0.73 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX004513.D
Acq: 13 Sep 2018 13:54

Tgt Ion: 56 Resp: 222
Ion Ratio Lower Upper
56 100
55 116.2 54.7 82.1#





#16

Acetone

Concen: 19.08 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

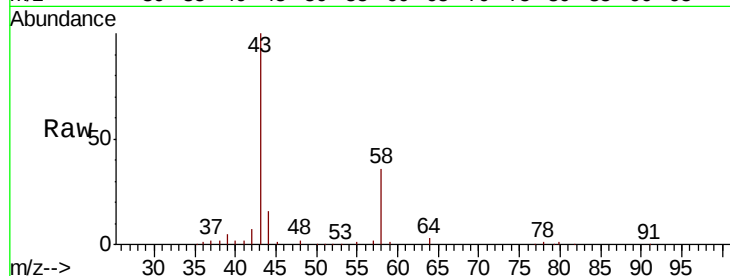
NF-CON-1

Tot Ion: 43 Resp: 30153

Ion Ratio Lower Upper

43 100

58 36.6 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

20000

15000

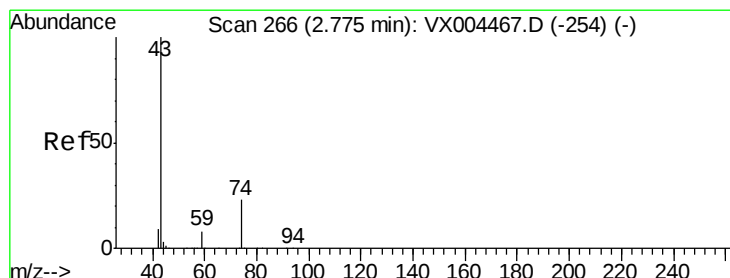
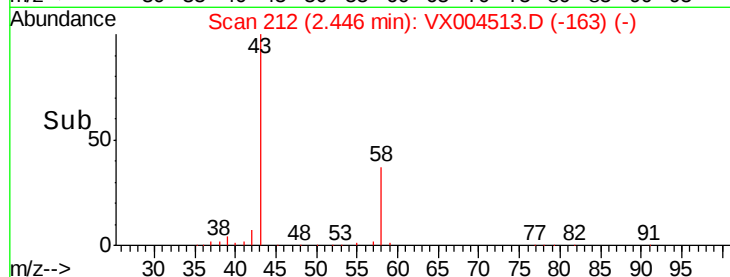
10000

5000

0

2.35 2.40 2.45 2.50 2.55

Time-->



#18

Methyl Acetate

Concen: 0.28 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004513.D

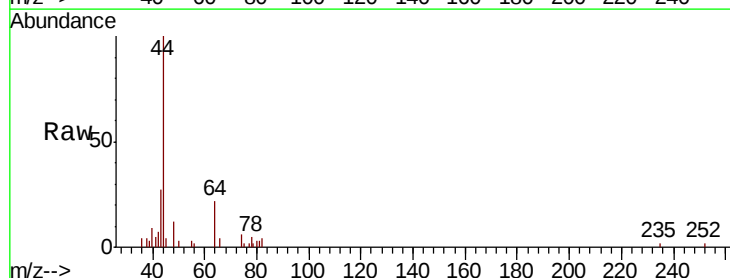
Acq: 13 Sep 2018 13:54

Tgt Ion: 43 Resp: 1228

Ion Ratio Lower Upper

43 100

74 18.1 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

800

600

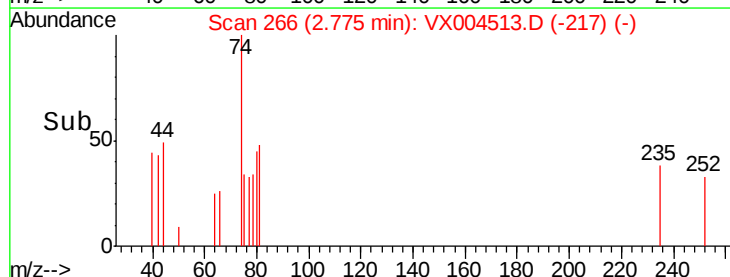
400

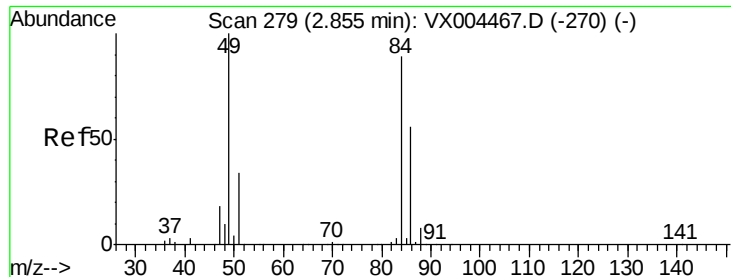
200

0

2.70 2.75 2.80 2.85

Time-->





#20

Methylene Chloride

Concen: 2.11 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-1

Tot Ion: 84 Resp: 6852

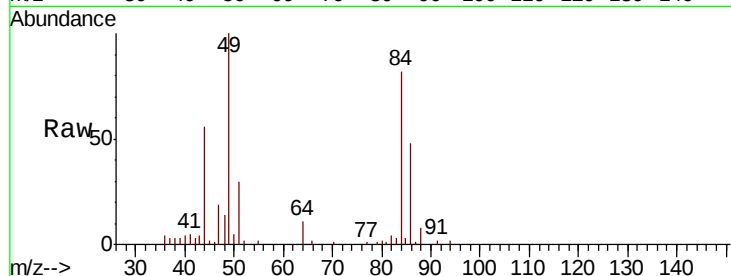
Ion Ratio Lower Upper

84 100

49 122.4 101.2 151.8

51 37.0 29.5 44.3

86 58.2 52.3 78.5

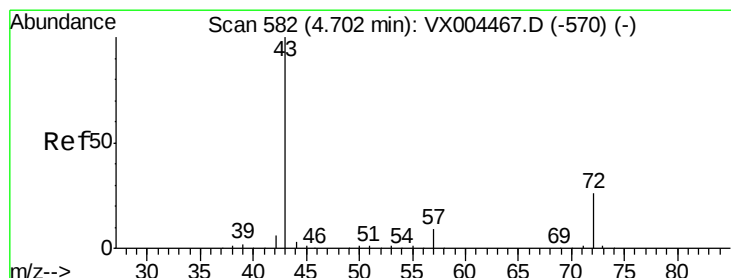
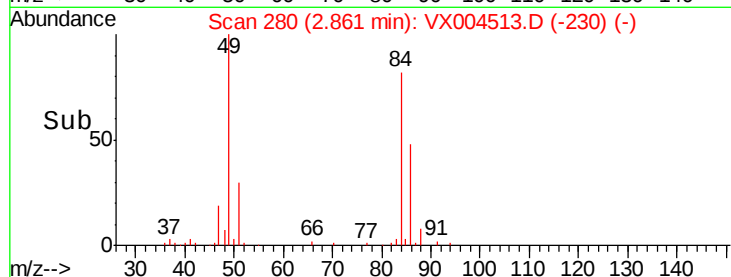
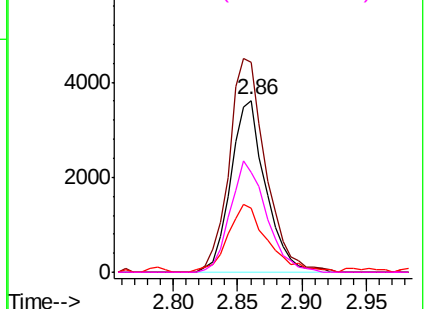


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.40 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004513.D

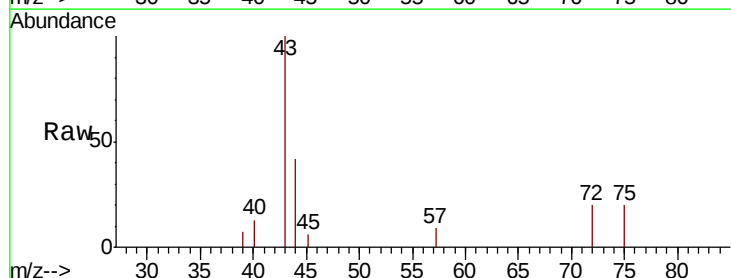
Acq: 13 Sep 2018 13:54

Tgt Ion: 43 Resp: 3520

Ion Ratio Lower Upper

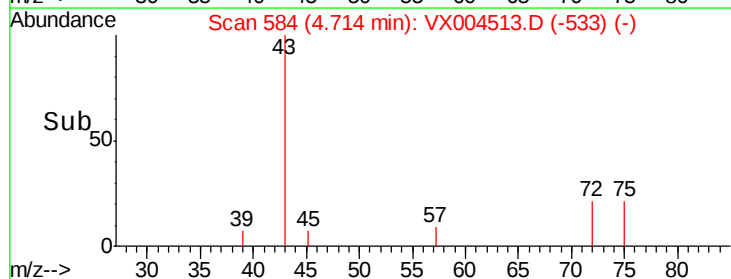
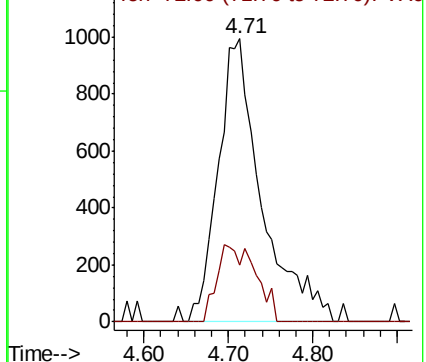
43 100

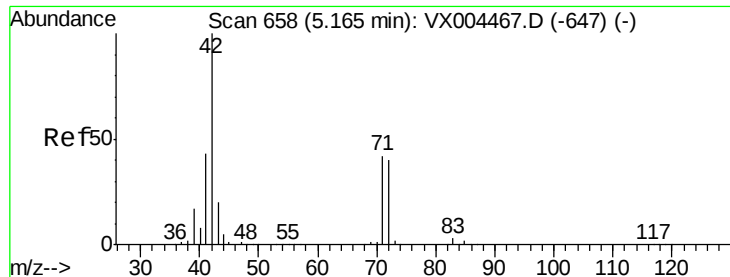
72 19.9 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.64 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-1

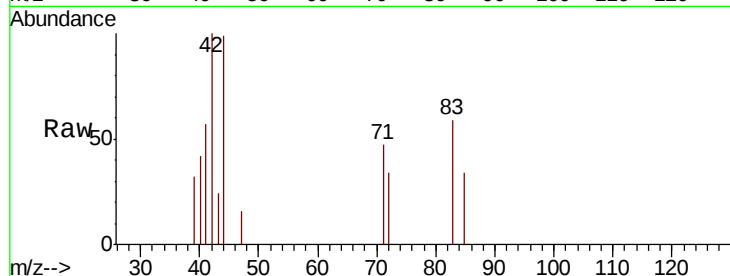
Tot Ion: 42 Resp: 969

Ion Ratio Lower Upper

42 100

72 36.8 37.4 56.0#

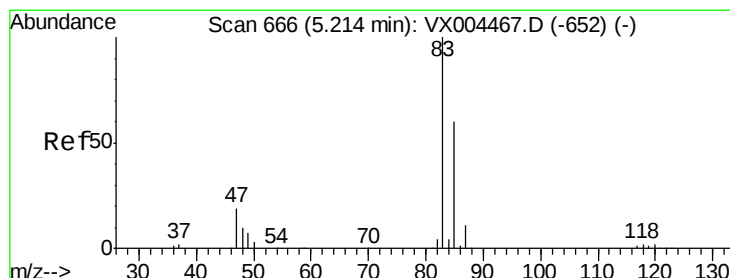
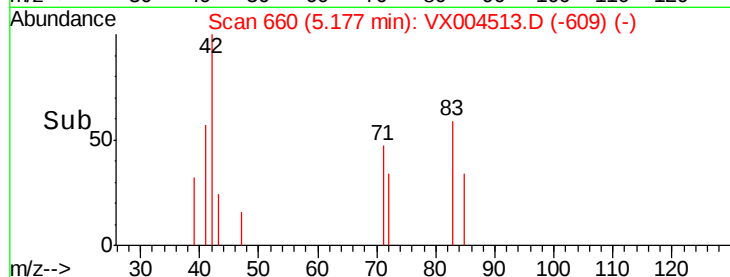
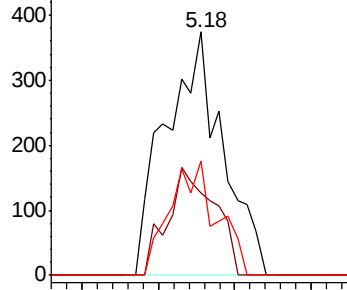
71 38.3 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.71 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX004513.D

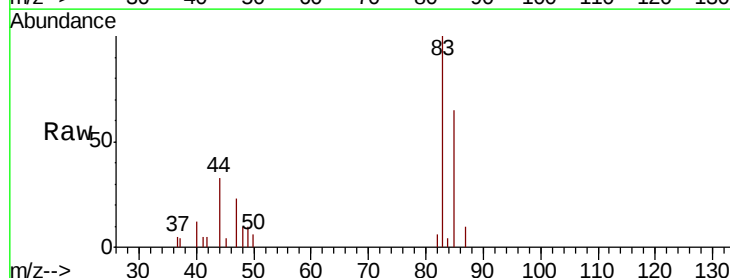
Acq: 13 Sep 2018 13:54

Tgt Ion: 83 Resp: 3790

Ion Ratio Lower Upper

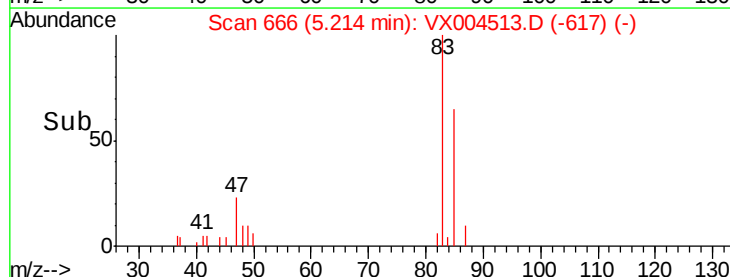
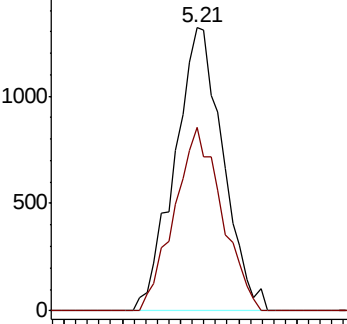
83 100

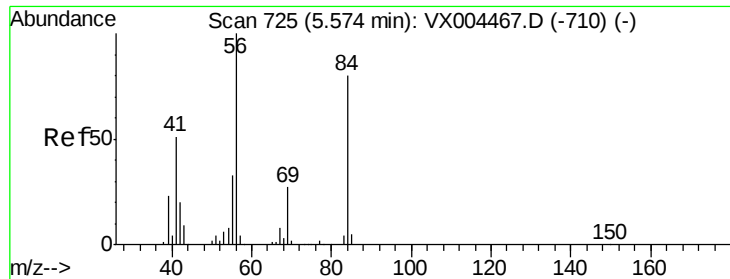
85 64.6 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

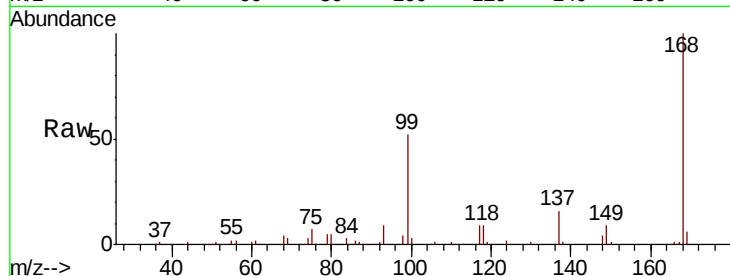




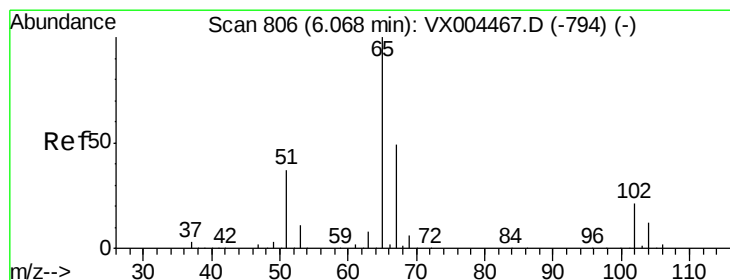
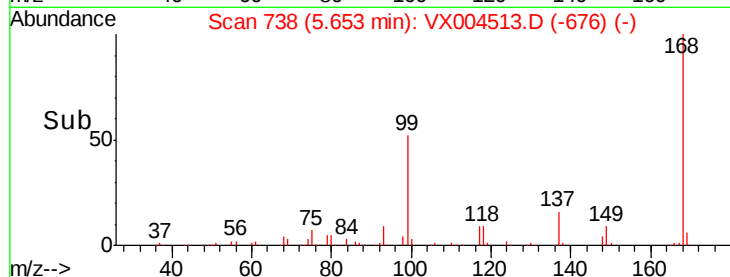
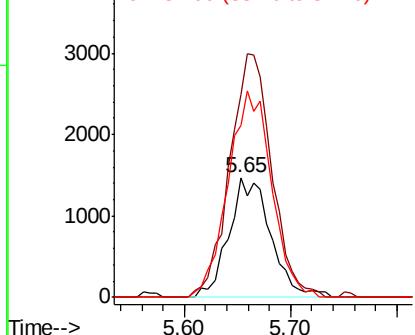
#31
Cvclohexane
Concen: 0.86 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX004513.D
Acq: 13 Sep 2018 13:54

Instrument :
MSVOA_X
ClientSampleId :
NF-CON-1

Tot Ion: 56 Resp: 4047
Ion Ratio Lower Upper
56 100
69 169.1 25.4 38.2#
84 143.7 71.4 107.2#

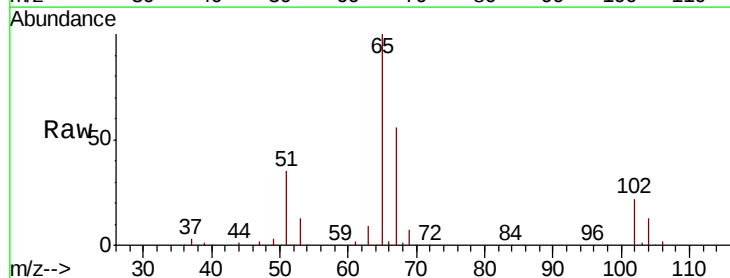


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

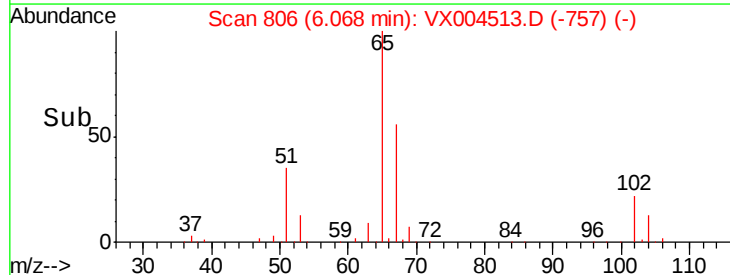
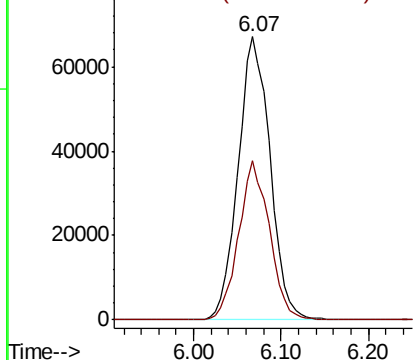


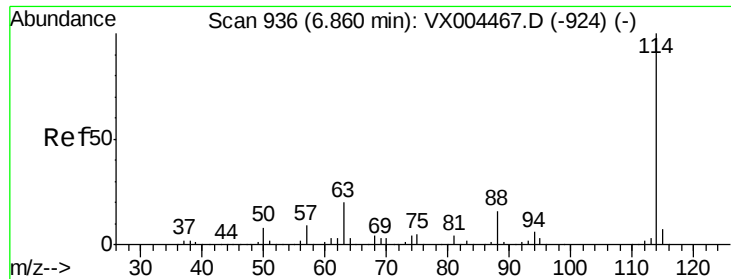
#33
1,2-Dichloroethane-d4
Concen: 52.65 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004513.D
Acq: 13 Sep 2018 13:54

Tgt Ion: 65 Resp: 170492
Ion Ratio Lower Upper
65 100
67 54.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

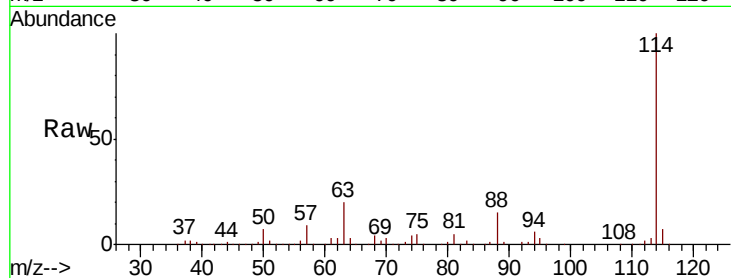




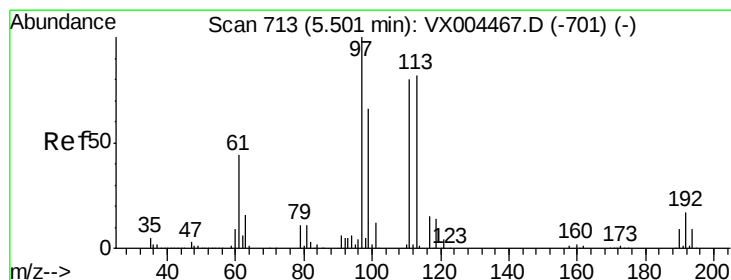
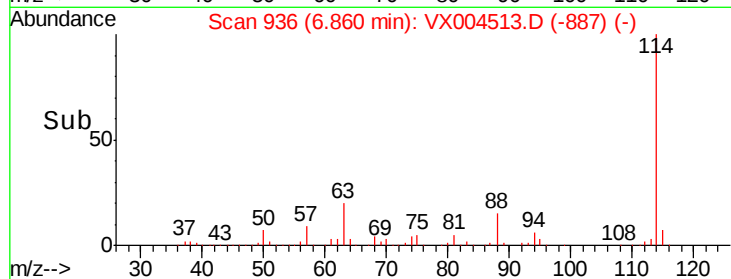
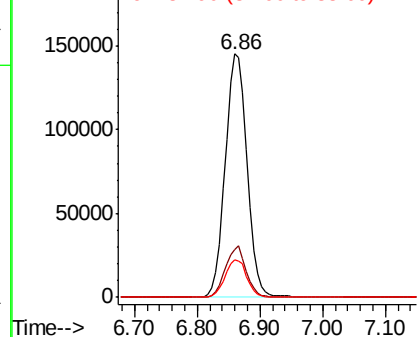
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004513.D
 Acq: 13 Sep 2018 13:54

Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-1

Tot Ion:114 Resp: 350483
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.3 0.0 30.4

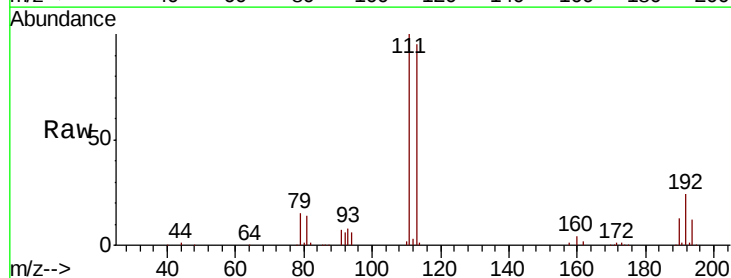


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

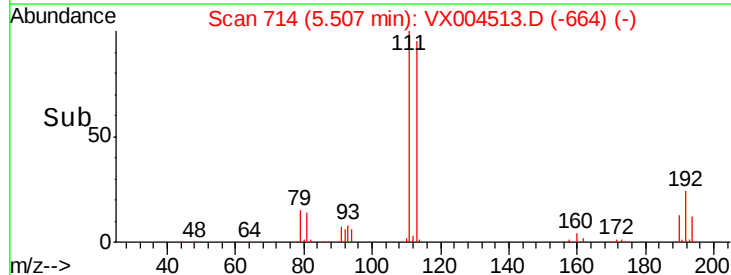
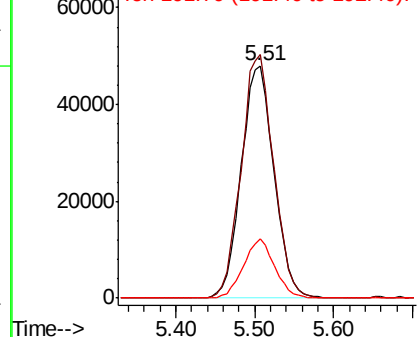


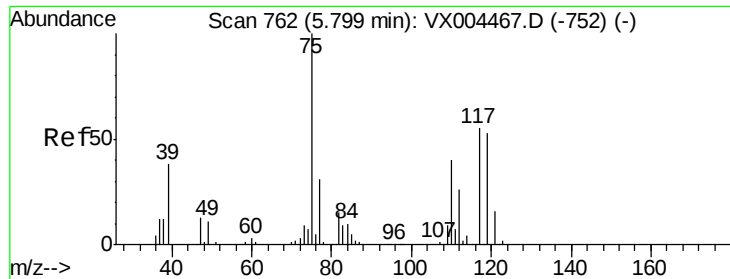
#35
 Dibromofluoromethane
 Concen: 43.20 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004513.D
 Acq: 13 Sep 2018 13:54

Tgt Ion:113 Resp: 138542
 Ion Ratio Lower Upper
 113 100
 111 104.2 82.4 123.6
 192 24.1 19.4 29.2



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

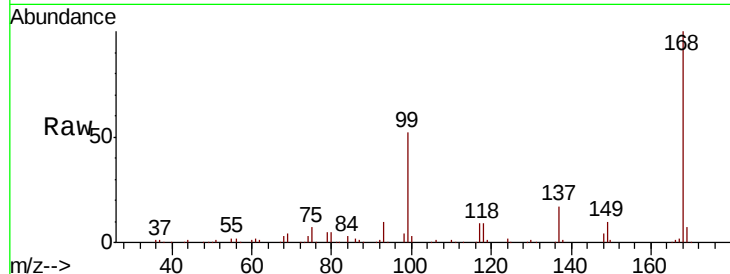




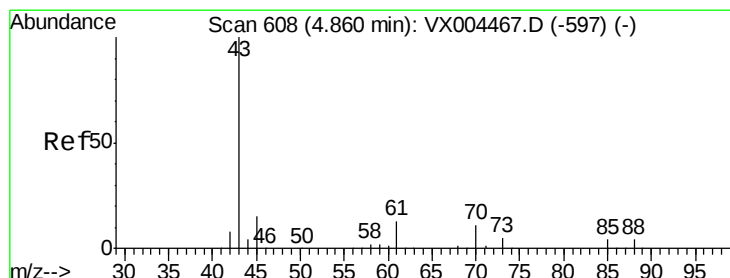
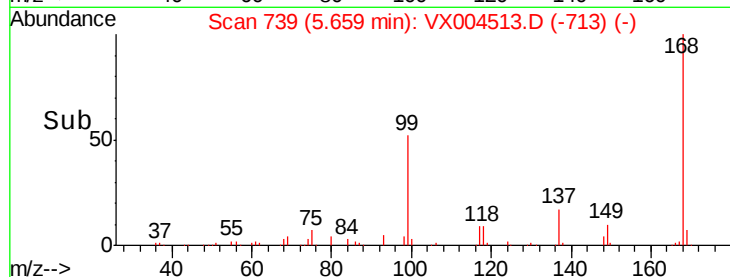
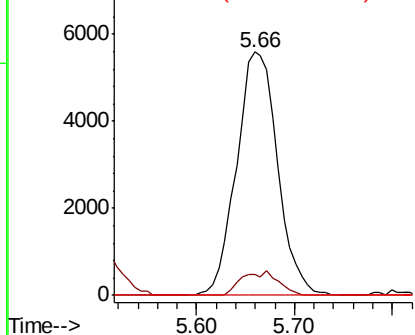
#36
 1,1-Dichloropropene
 Concen: 3.83 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004513.D
 Acq: 13 Sep 2018 13:54

Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-1

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.0	54.0#
77	0.0	24.6	36.8#

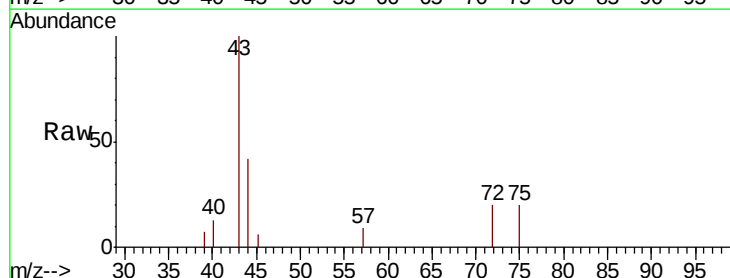


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

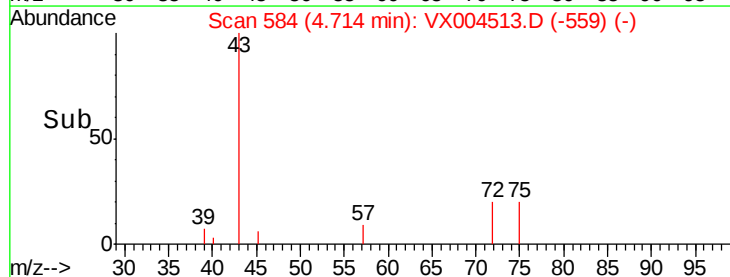
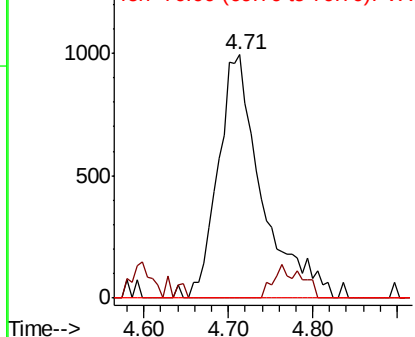


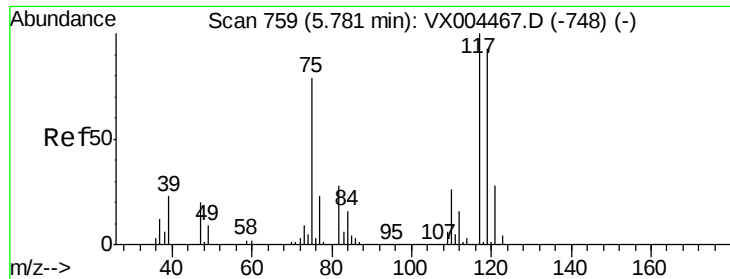
#37
 Ethyl Acetate
 Concen: 0.73 ug/l
 RT: 4.71 min Scan# 584
 Delta R.T. -0.15 min
 Lab File: VX004513.D
 Acq: 13 Sep 2018 13:54

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.0	9.0	13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.31 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampled :

NF-CON-1

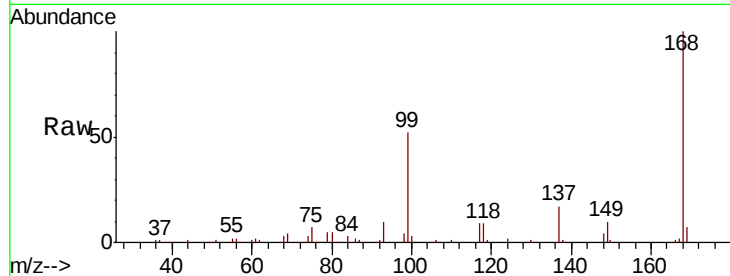
Tot Ion:117 Resp: 22064

Ion Ratio Lower Upper

117 100

119 5.5 78.8 118.2#

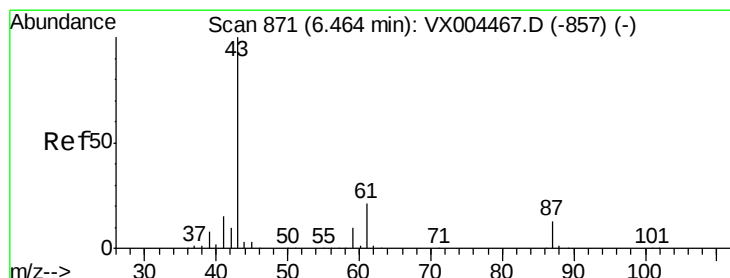
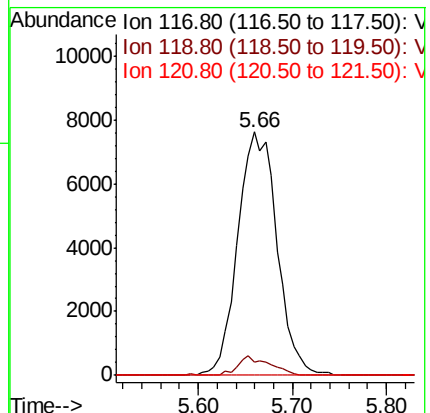
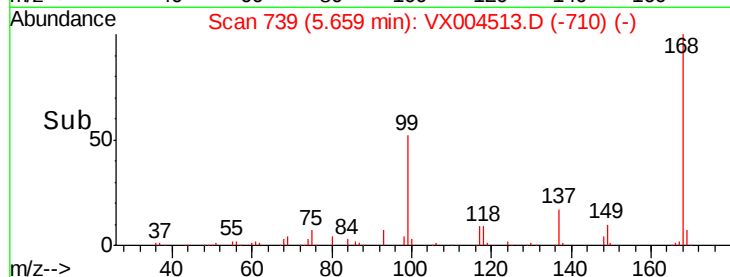
121 0.0 24.9 37.3#



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: 0.35 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

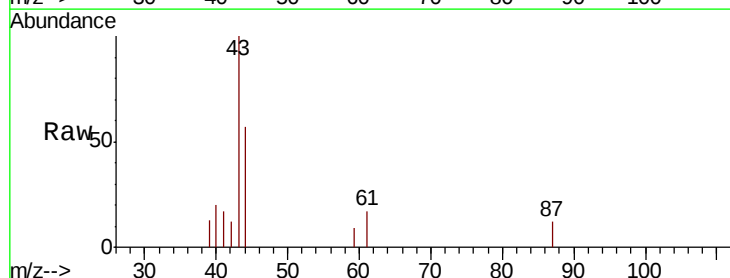
Tgt Ion: 43 Resp: 2264

Ion Ratio Lower Upper

43 100

61 20.0 17.0 25.4

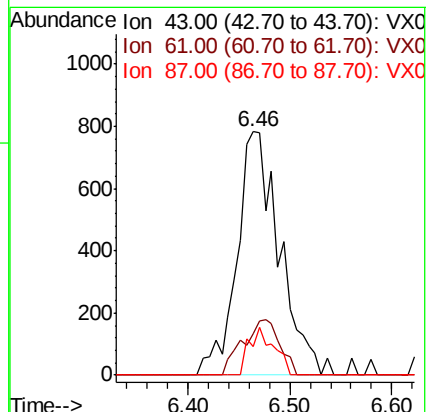
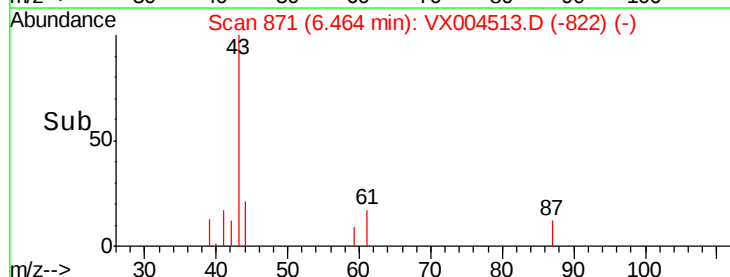
87 11.5 11.4 17.2

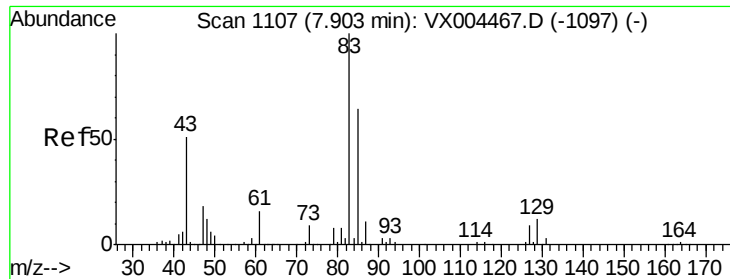


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#47

Bromodichloromethane

Concen: 0.22 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-1

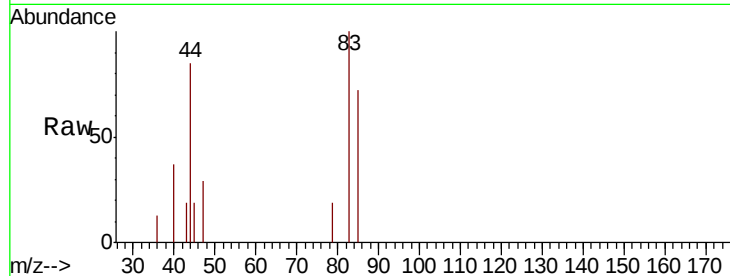
Tot Ion: 83 Resp: 792

Ion Ratio Lower Upper

83 100

85 72.2 50.9 76.3

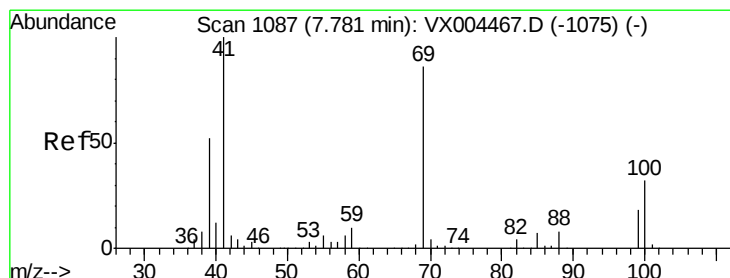
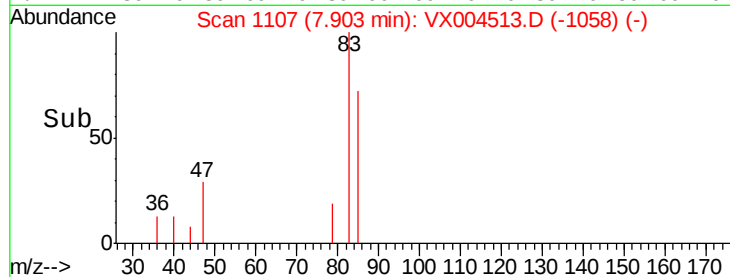
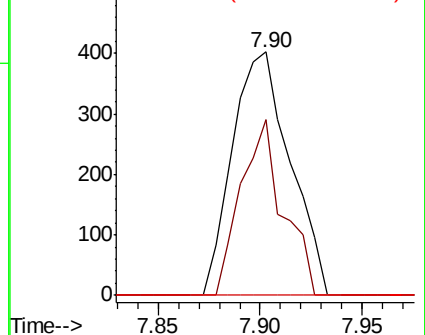
127 0.0 7.3 10.9#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 1.86 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

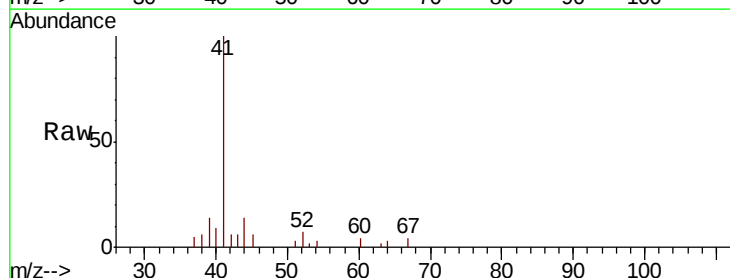
Tgt Ion: 41 Resp: 5923

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

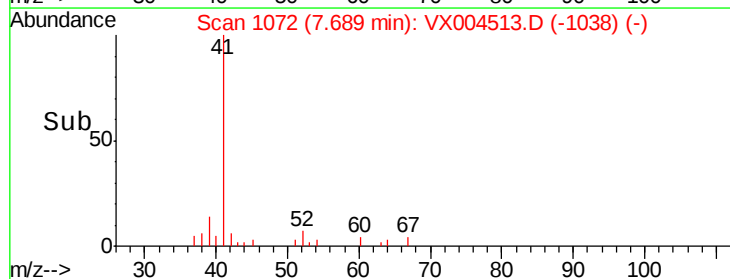
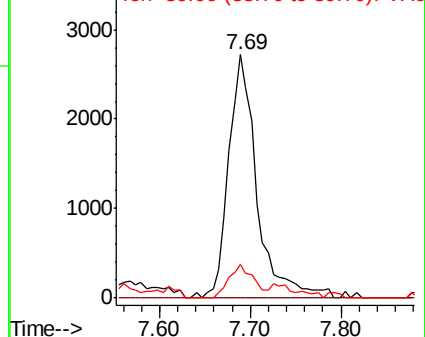
39 11.6 42.7 64.1#

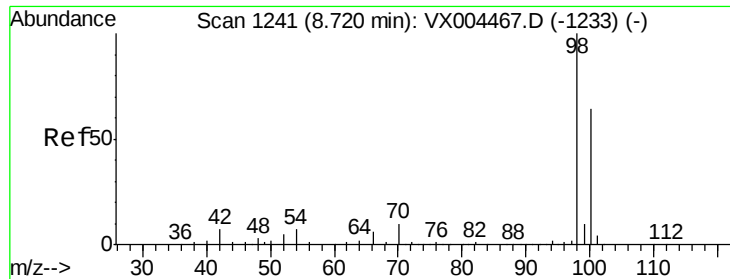


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 50.56 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

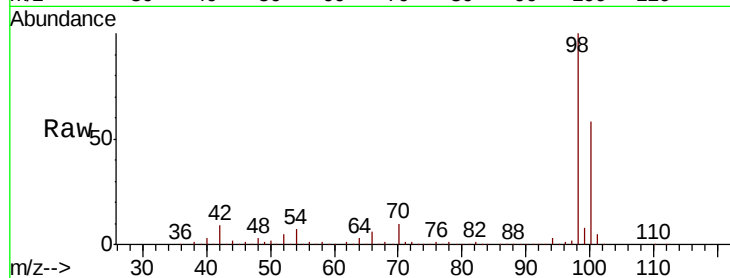
NF-CON-1

Tot Ion: 98 Resp: 543759

Ion Ratio Lower Upper

98 100

100 62.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

300000

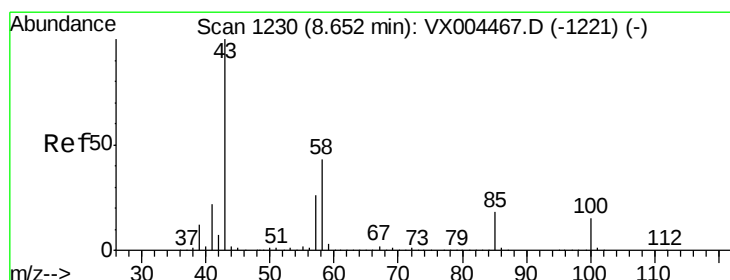
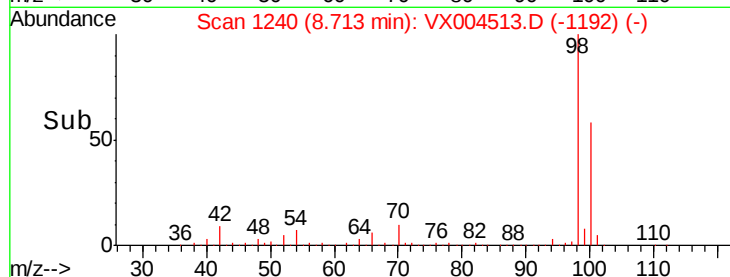
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VX004513.D

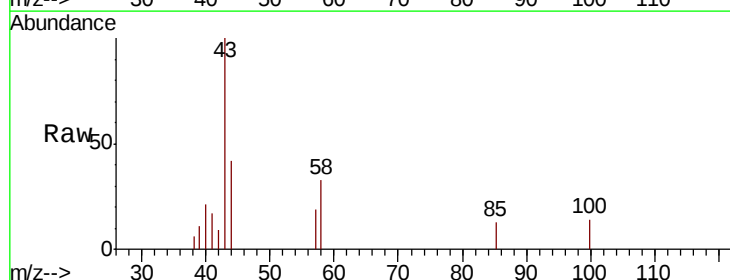
Acq: 13 Sep 2018 13:54

Tgt Ion: 43 Resp: 1825

Ion Ratio Lower Upper

43 100

58 31.1 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

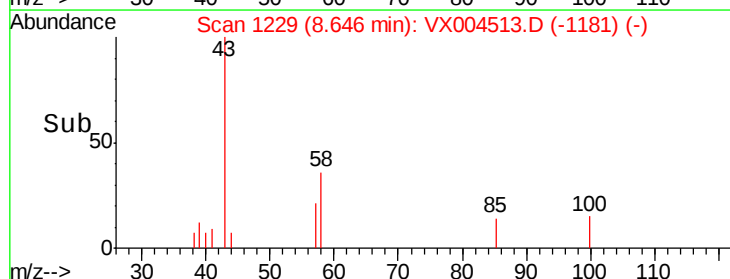
1000

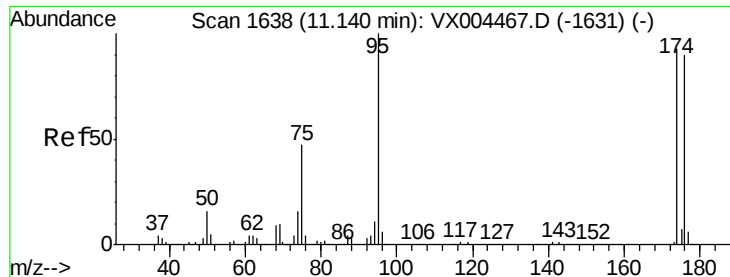
500

0

8.55 8.60 8.65 8.70

Time-->

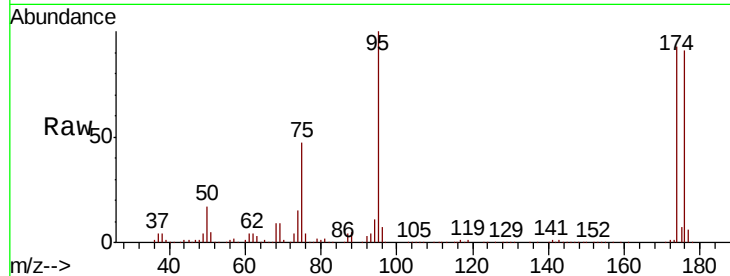




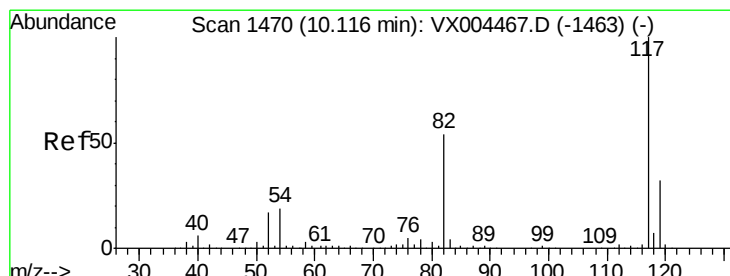
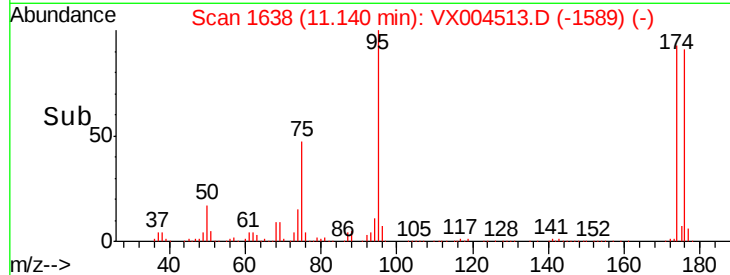
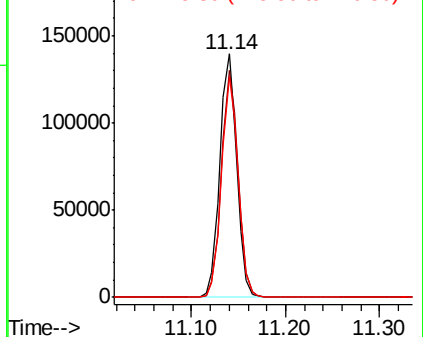
#62
4-Bromofluorobenzene
Concen: 45.47 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004513.D
Acq: 13 Sep 2018 13:54

Instrument :
MSVOA_X
ClientSampleId :
NF-CON-1

Tot Ion: 95 Resp: 174586
Ion Ratio Lower Upper
95 100
174 92.0 0.0 185.2
176 89.4 0.0 178.6

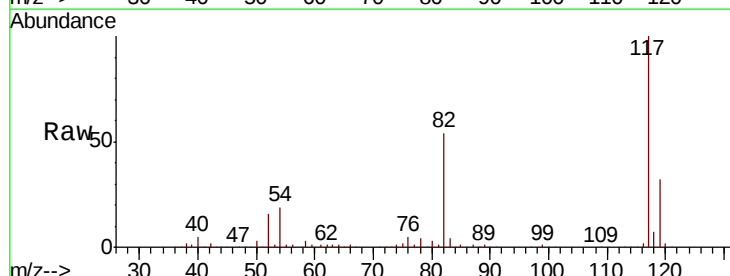


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

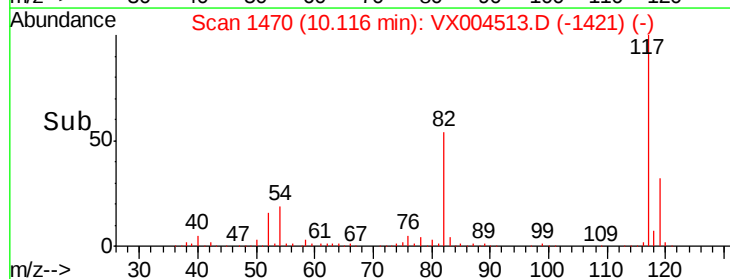
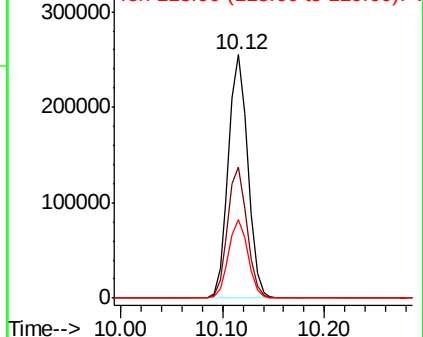


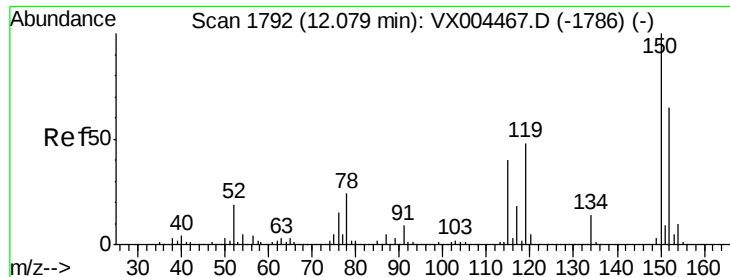
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004513.D
Acq: 13 Sep 2018 13:54

Tgt Ion: 117 Resp: 337046
Ion Ratio Lower Upper
117 100
82 53.7 47.8 71.6
119 32.0 29.3 43.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-1

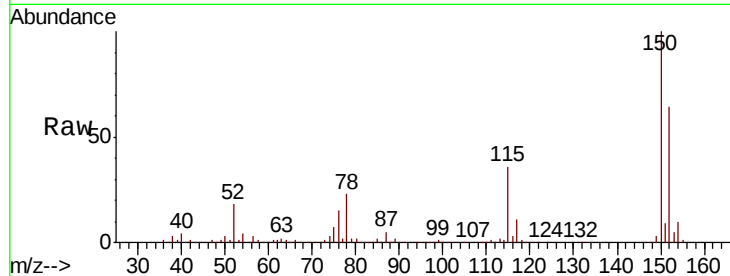
Tot Ion:152 Resp: 182534

Ion Ratio Lower Upper

152 100

115 55.8 39.0 117.0

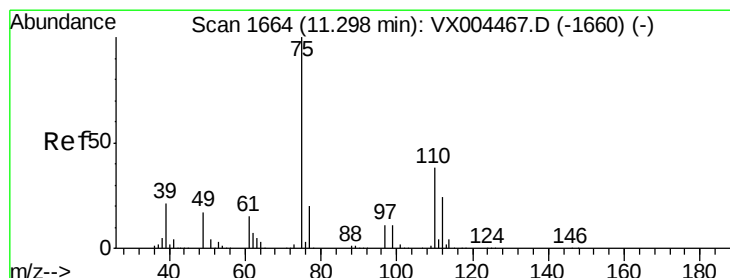
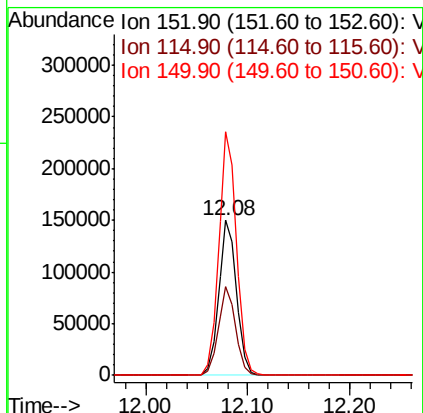
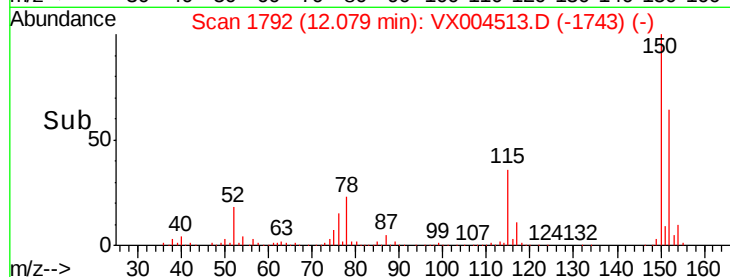
150 156.5 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.33 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004513.D

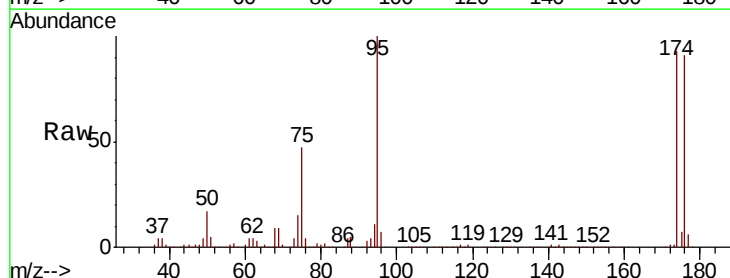
Acq: 13 Sep 2018 13:54

Tgt Ion: 75 Resp: 82015

Ion Ratio Lower Upper

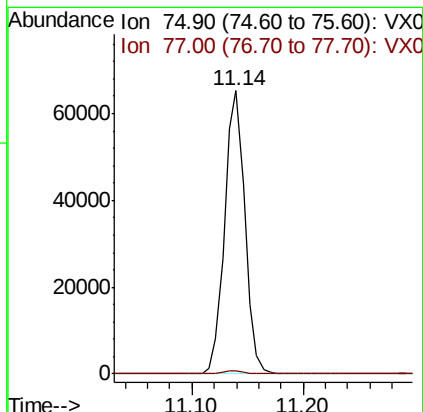
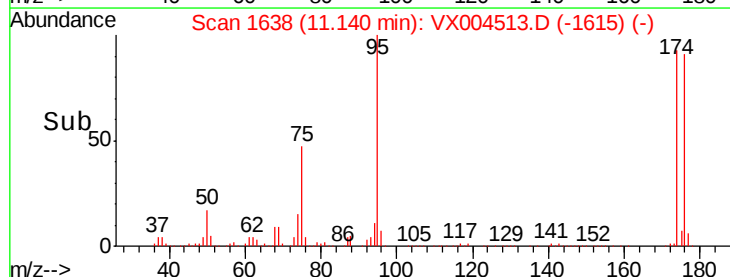
75 100

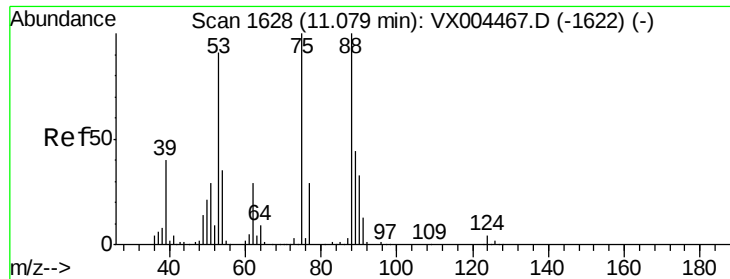
77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.19 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-1

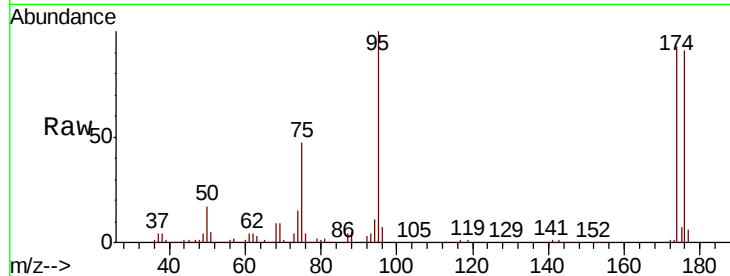
Tot Ion: 75 Resp: 82015

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

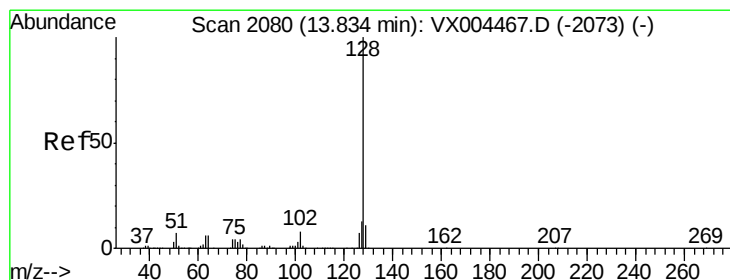
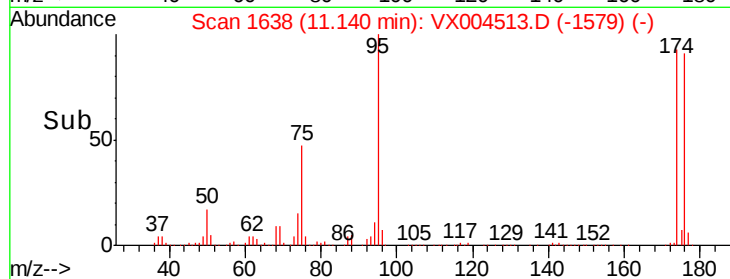
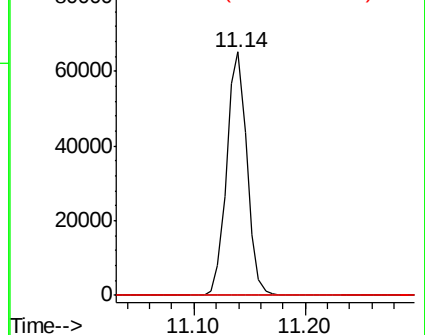
89 0.0 37.2 55.8#



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



#95

Naphthalene

Concen: 0.37 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX004513.D

Acq: 13 Sep 2018 13:54

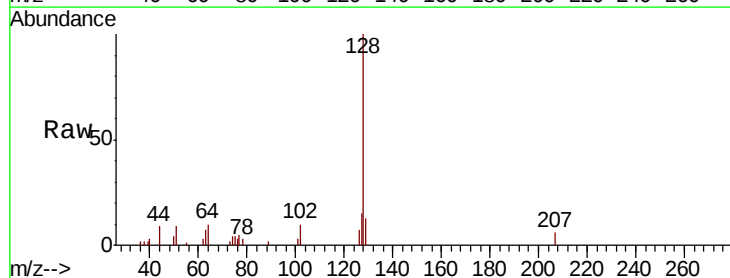
Tgt Ion:128 Resp: 4658

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

