

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091318\
 Data File : VX004514.D
 Acq On : 13 Sep 2018 14:21
 Operator : JC/MD
 Sample : J4873-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-2

Quant Time: Sep 14 03:53:25 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	5.66	168	245118	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	352767	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	328386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185220	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	164427	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
35) Dibromofluoromethane	5.50	113	127100	39.37	ug/l	0.00
Spiked Amount			Recovery	=	78.74%	
50) Toluene-d8	8.72	98	490352	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	
62) 4-Bromofluorobenzene	11.14	95	174310	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	

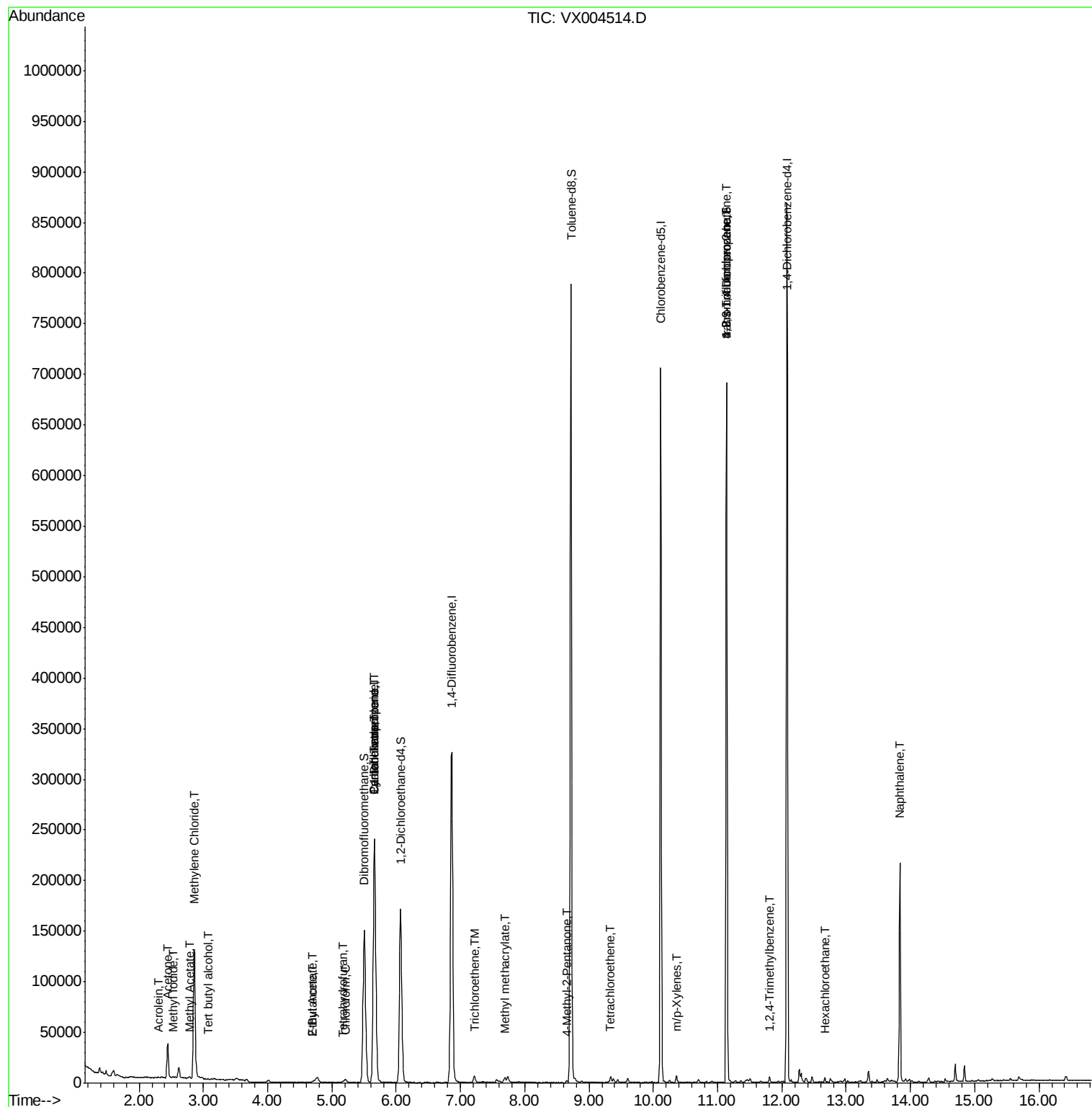
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	940	Below Cal		95
10) Methyl Iodide	2.52	142	639	4.44 ug/l	#	73
11) Tert butyl alcohol	3.07	59	534	0.71 ug/l	#	72
13) Acrolein	2.30	56	172	0.58 ug/l	#	1
16) Acetone	2.45	43	34985	22.68 ug/l		91
18) Methyl Acetate	2.79	43	1631	0.38 ug/l		98
20) Methylene Chloride	2.86	84	64323	20.33 ug/l		96
25) 2-Butanone	4.70	43	3106	1.27 ug/l		94
29) Tetrahydrofuran	5.17	42	1032	0.70 ug/l	#	78
30) Chloroform	5.21	83	3496	0.67 ug/l		91
31) Cyclohexane	5.66	56	4111	0.90 ug/l	#	1
36) 1,1-Dichloropropene	5.66	75	15719	3.67 ug/l	#	49
37) Ethyl Acetate	4.70	43	3106	0.64 ug/l	#	67
38) Carbon Tetrachloride	5.67	117	20978	5.01 ug/l	#	16
44) Trichloroethene	7.22	130	2657	0.80 ug/l		77
48) Methyl methacrylate	7.69	41	6174	1.93 ug/l	#	20
51) 4-Methyl-2-Pentanone	8.65	43	1471	0.32 ug/l		92
64) Tetrachloroethene	9.34	164	1374	0.34 ug/l		92
68) m/p-Xylenes	10.36	106	1617	0.32 ug/l		95
76) 1,2,3-Trichloropropane	11.14	75	82087	22.03 ug/l	#	37
81) trans-1,4-Dichloro-2-buten	11.14	75	82087	70.21 ug/l	#	10
84) 1,2,4-Trimethylbenzene	11.81	105	2613	0.25 ug/l		93
90) Hexachloroethane	12.67	117	372	0.21 ug/l	#	3
95) Naphthalene	13.83	128	135943	10.75 ug/l		99

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

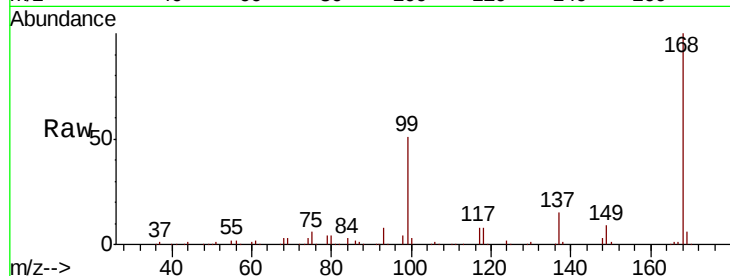
NF-CON-2

Tot Ion:168 Resp: 245118

Ion Ratio Lower Upper

168 100

99 50.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

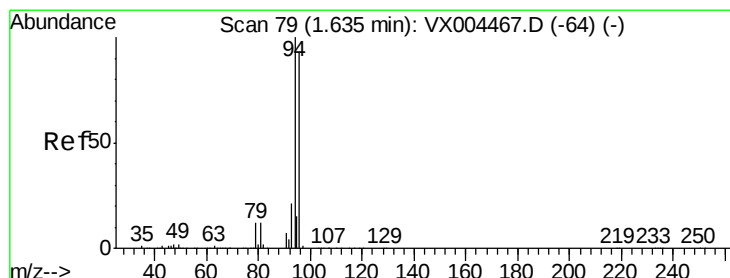
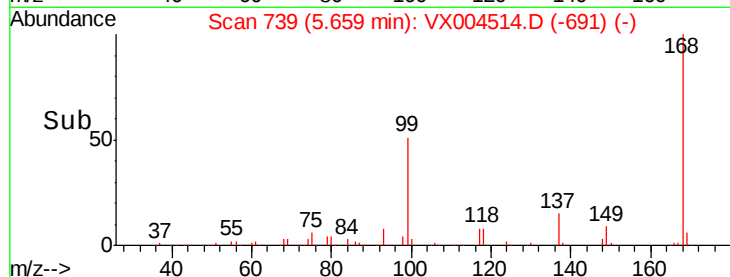
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004514.D

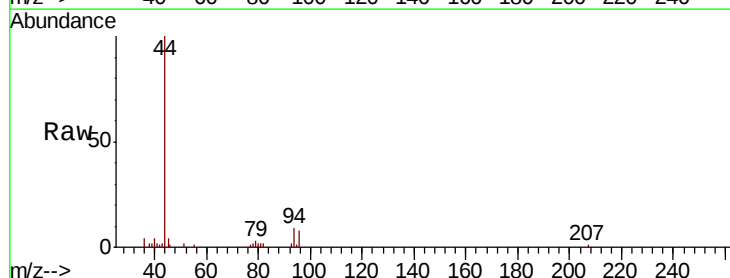
Acq: 13 Sep 2018 14:21

Tgt Ion: 94 Resp: 940

Ion Ratio Lower Upper

94 100

96 98.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

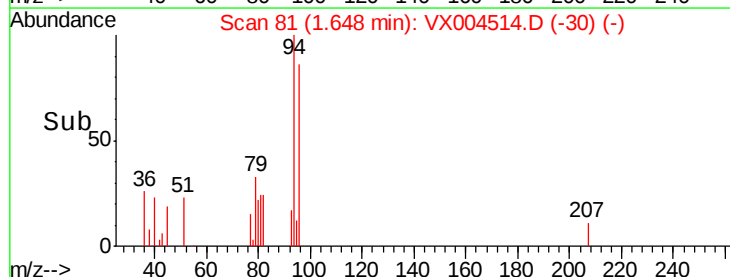
300

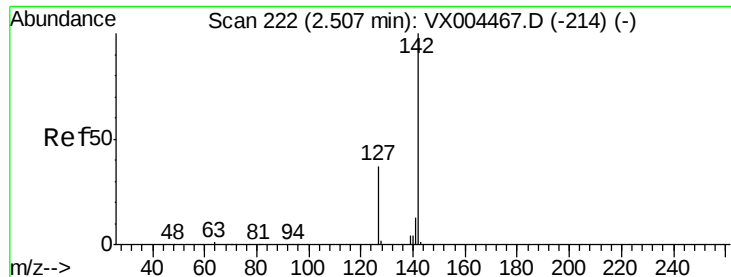
200

100

0

Time--> 1.60 1.65 1.70

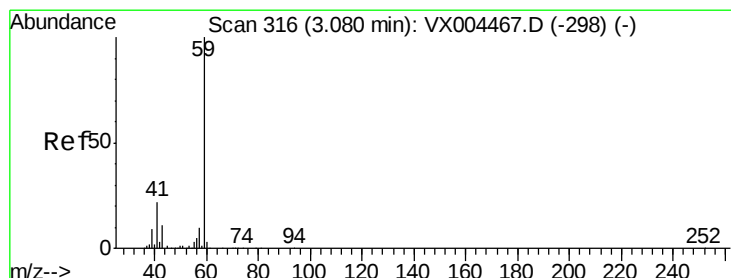
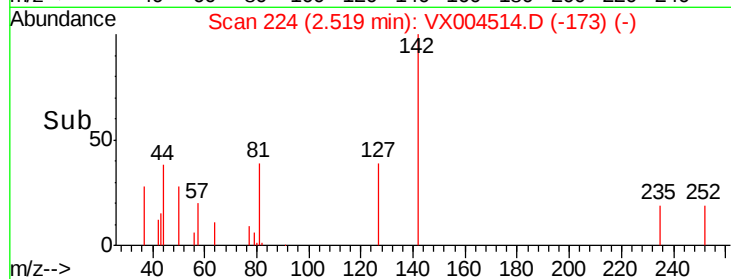
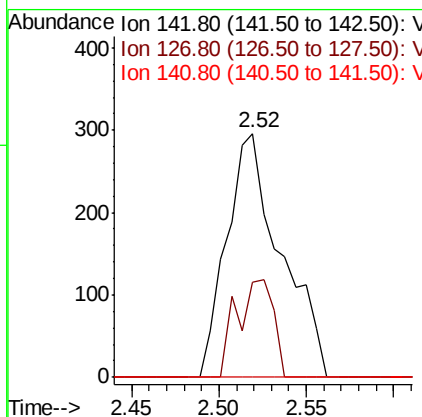
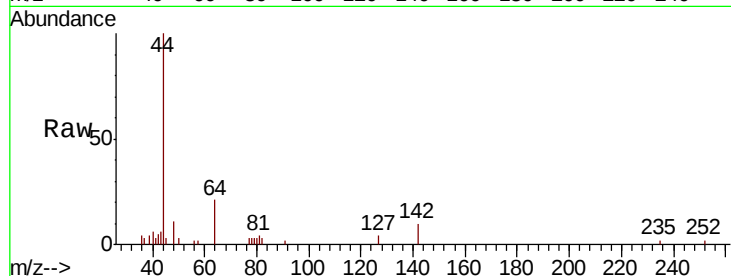




#10
Methvl Iodide
Concen: 4.44 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

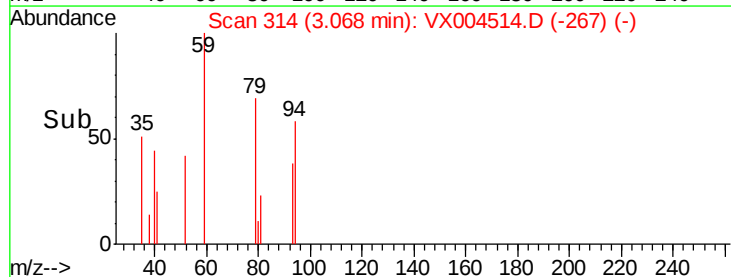
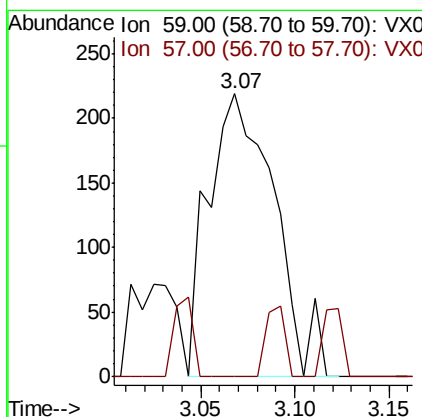
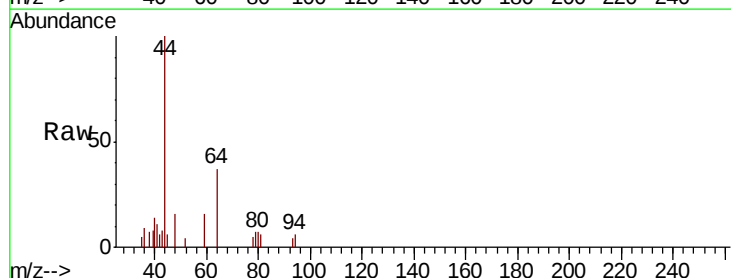
Instrument :
MSVOA_X
ClientSampleId :
NF-CON-2

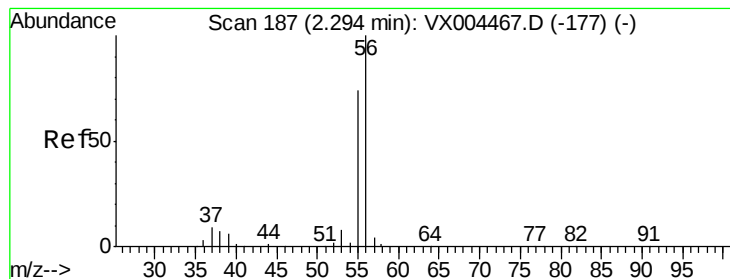
Tot Ion:142 Resp: 639
Ion Ratio Lower Upper
142 100
127 26.9 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.71 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

Tgt Ion: 59 Resp: 534
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.58 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

Instrument :

MSVOA_X

ClientSampled :

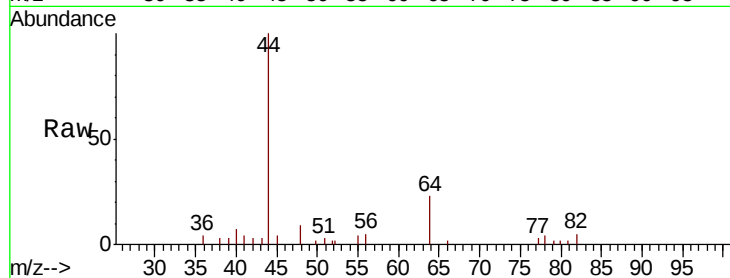
NF-CON-2

Tot Ion: 56 Resp: 172

Ion Ratio Lower Upper

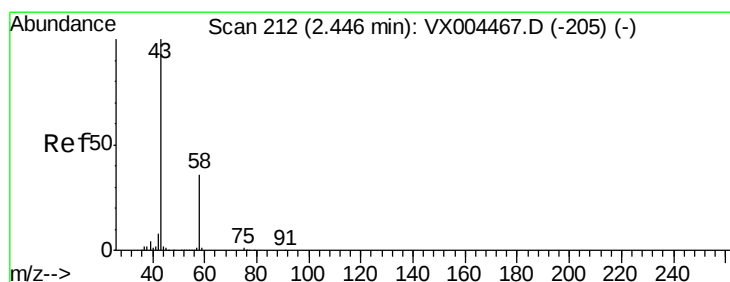
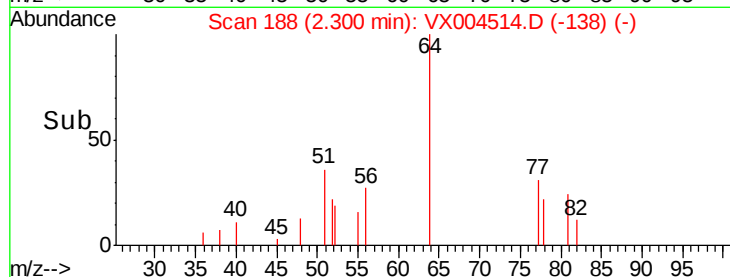
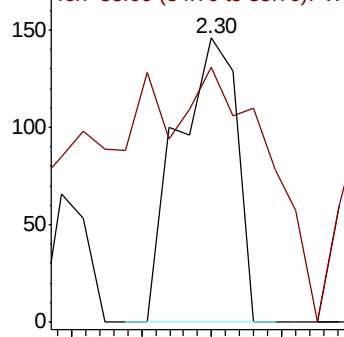
56 100

55 179.7 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 22.68 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004514.D

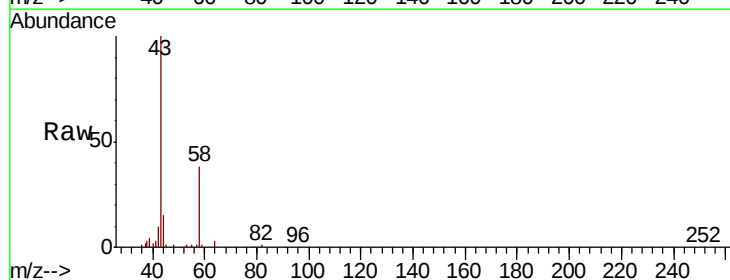
Acq: 13 Sep 2018 14:21

Tgt Ion: 43 Resp: 34985

Ion Ratio Lower Upper

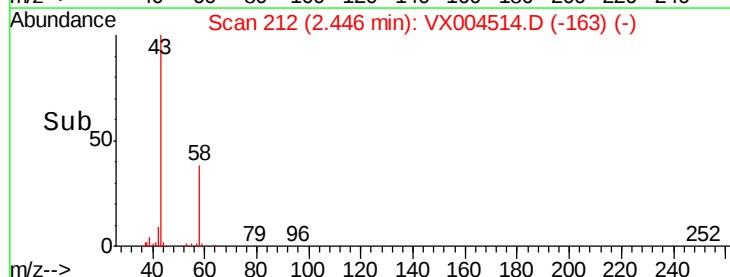
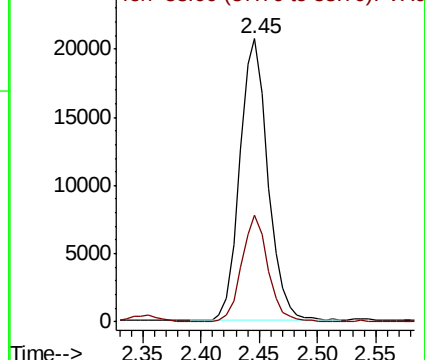
43 100

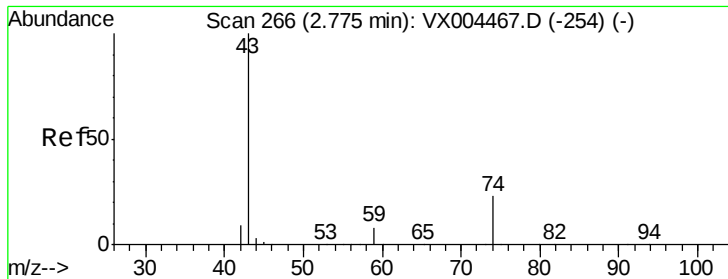
58 37.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

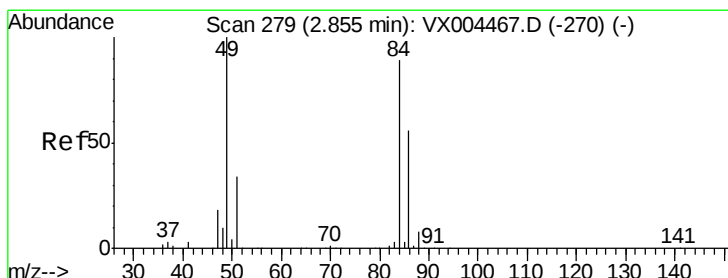
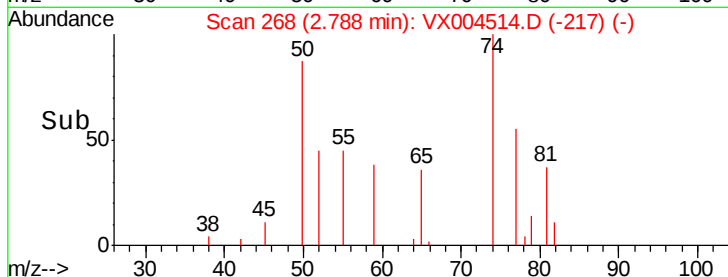
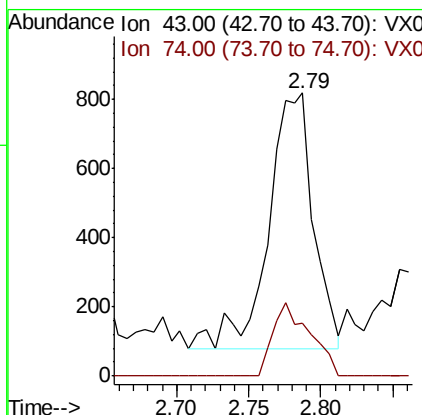
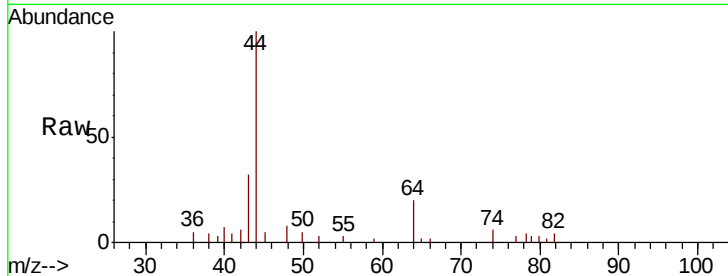




#18
Methyl Acetate
Concen: 0.38 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

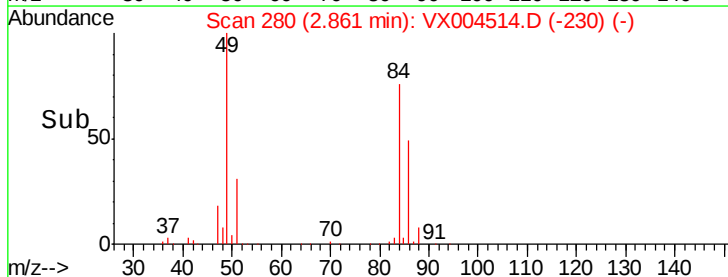
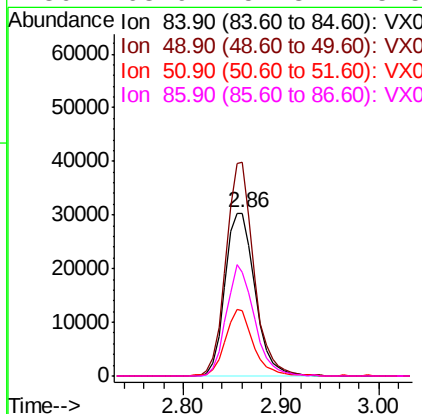
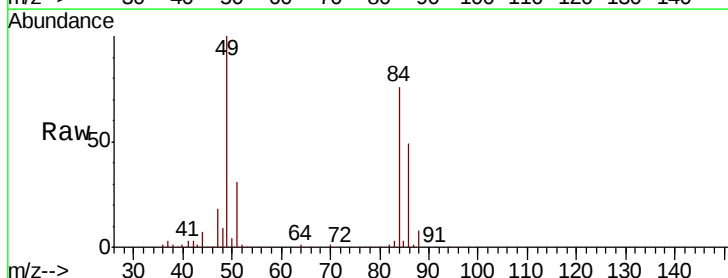
Instrument :
MSVOA_X
ClientSampled :
NF-CON-2

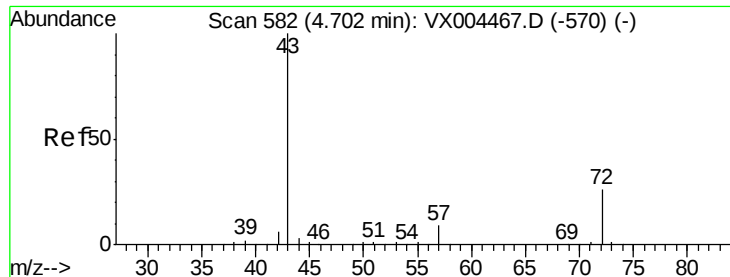
Tot Ion: 43 Resp: 1631
Ion Ratio Lower Upper
43 100
74 23.1 19.4 29.2



#20
Methylene Chloride
Concen: 20.33 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

Tgt Ion: 84 Resp: 64323
Ion Ratio Lower Upper
84 100
49 131.4 101.2 151.8
51 40.1 29.5 44.3
86 63.9 52.3 78.5





#25

2-Butanone

Concen: 1.27 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

Instrument :

MSVOA_X

ClientSampled :

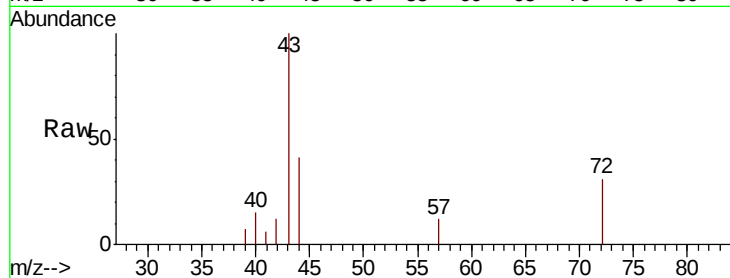
NF-CON-2

Tot Ion: 43 Resp: 3106

Ion Ratio Lower Upper

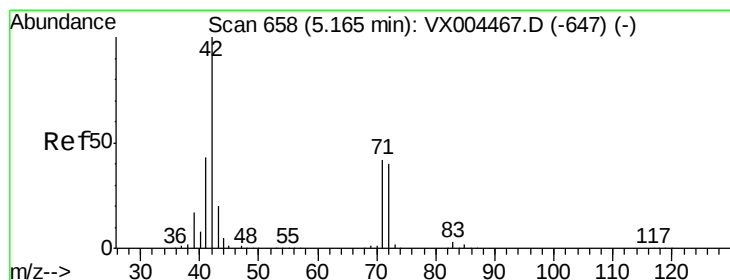
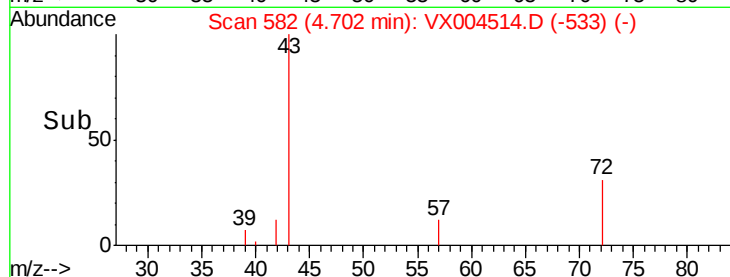
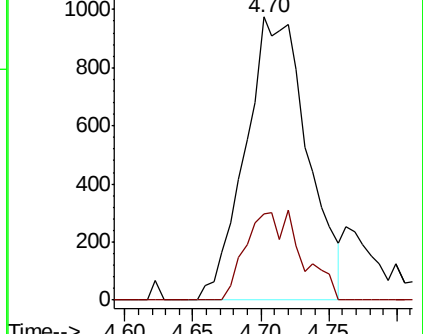
43 100

72 30.6 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: 0.70 ug/l

RT: 5.17 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

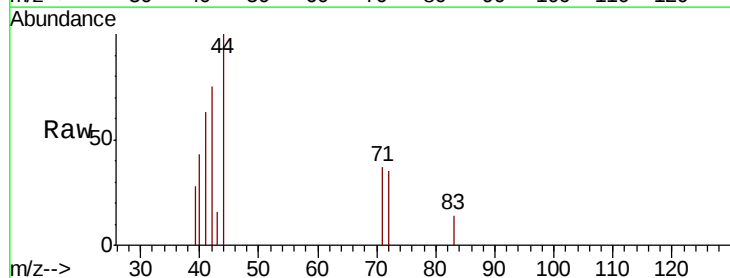
Tgt Ion: 42 Resp: 1032

Ion Ratio Lower Upper

42 100

72 30.6 37.4 56.0#

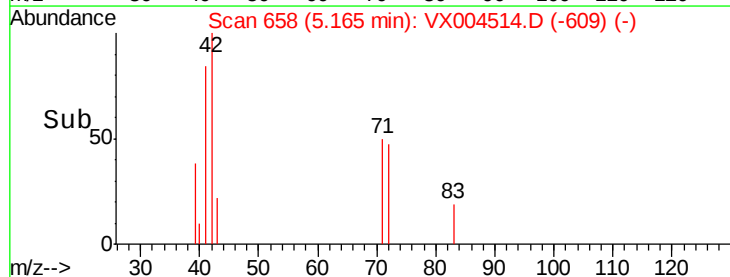
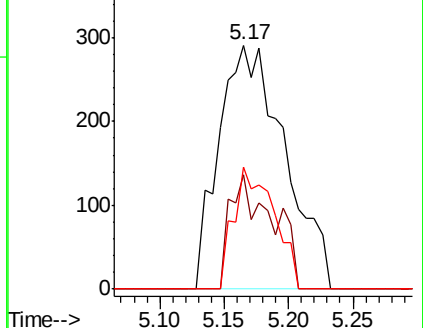
71 30.6 34.5 51.7#

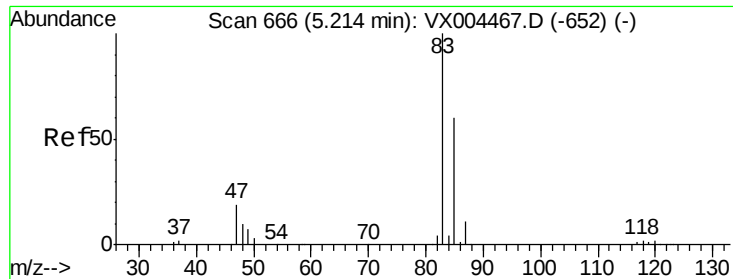


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

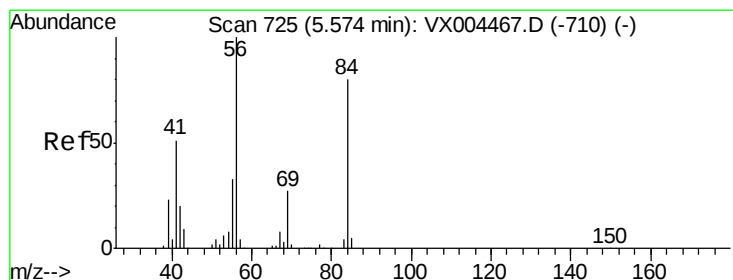
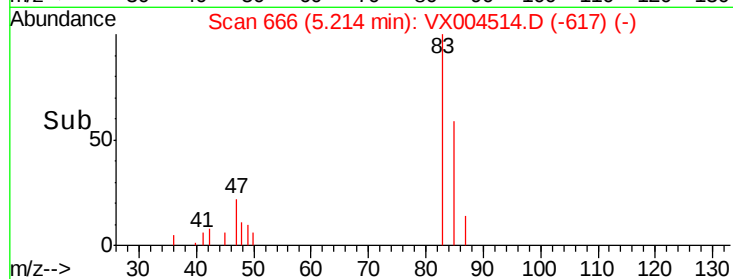
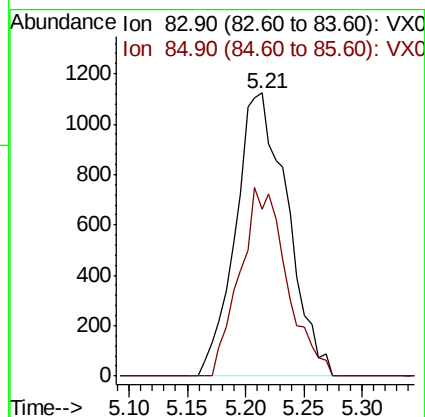
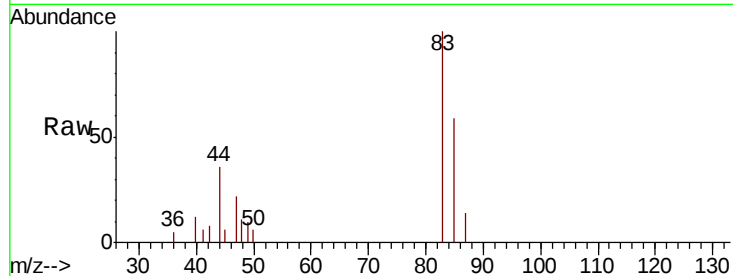




#30
Chloroform
Concen: 0.67 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

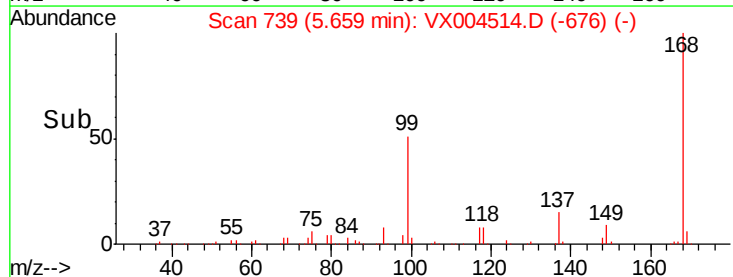
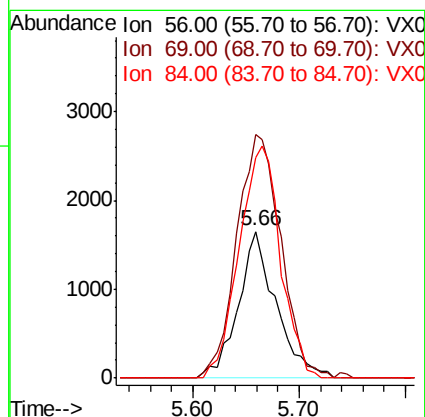
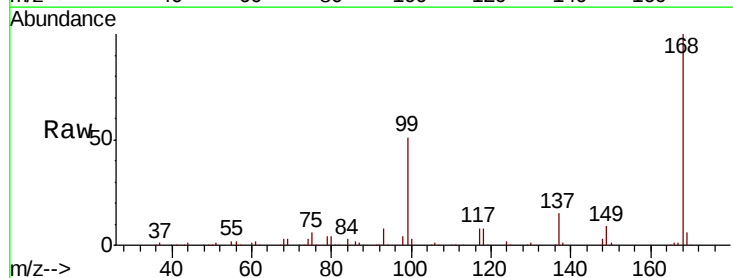
Instrument :
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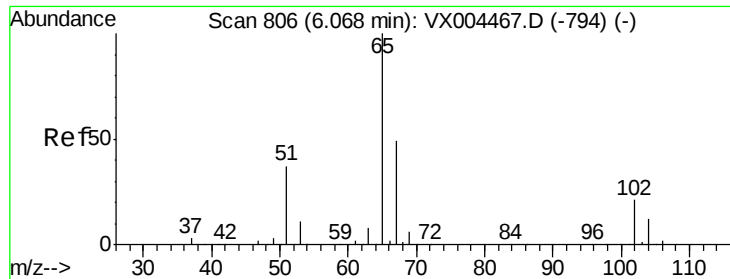
Tot Ion: 83 Resp: 3496
Ion Ratio Lower Upper
83 100
85 58.9 52.6 79.0



#31
Cyclohexane
Concen: 0.90 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

Tgt Ion: 56 Resp: 4111
Ion Ratio Lower Upper
56 100
69 166.2 25.4 38.2#
84 151.0 71.4 107.2#

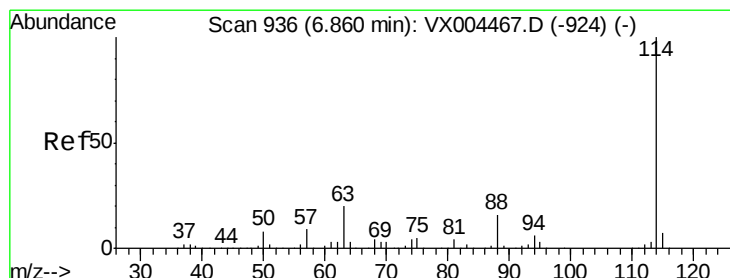
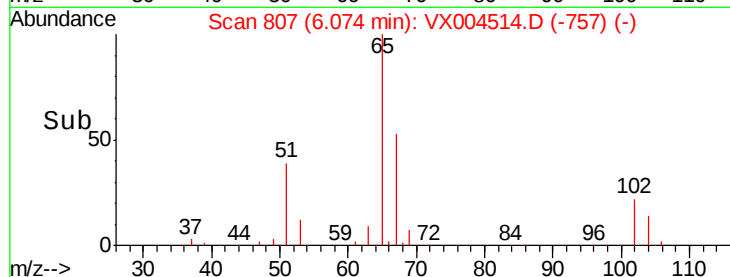
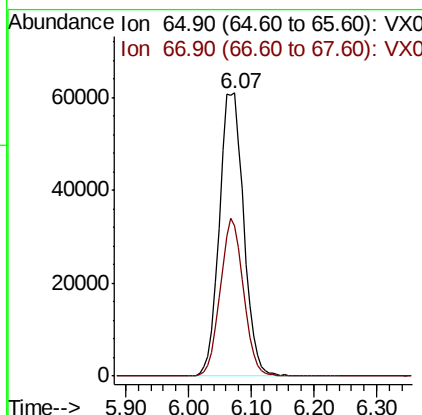
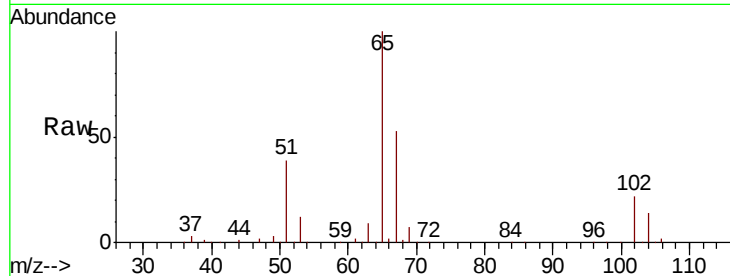




#33
 1,2-Dichloroethane-d4
 Concen: 52.02 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

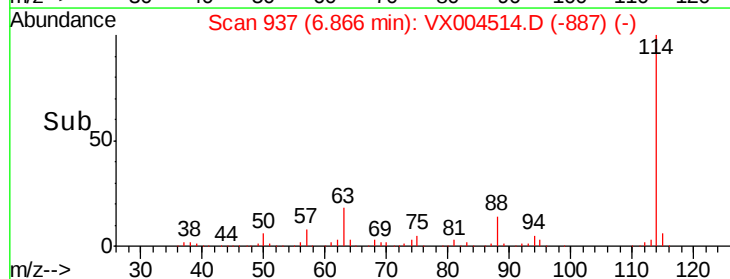
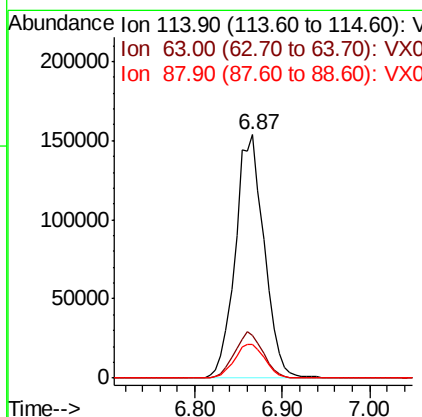
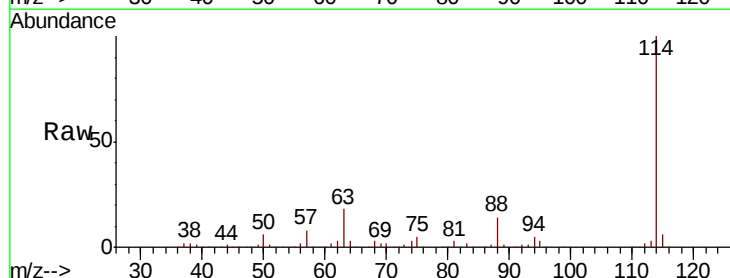
Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-2

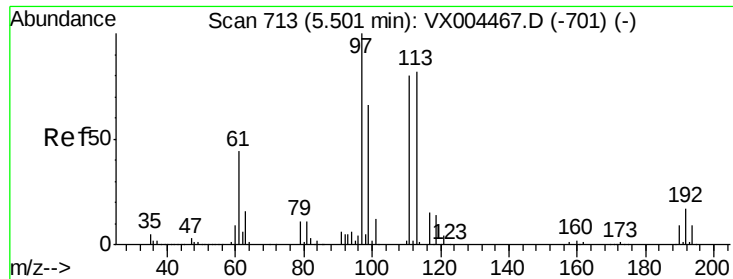
Tot Ion: 65 Resp: 164427
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

Tgt Ion: 114 Resp: 352767
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 39.0
 88 13.9 0.0 30.4

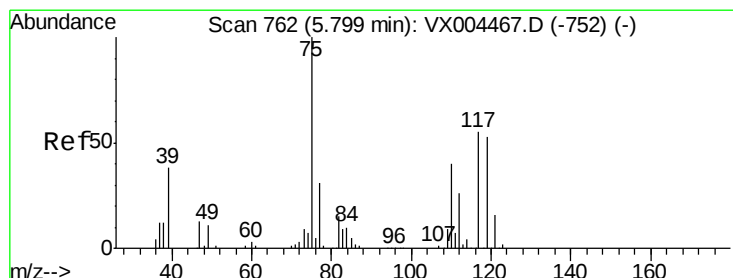
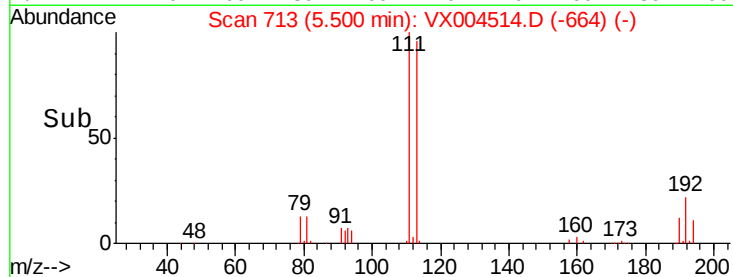
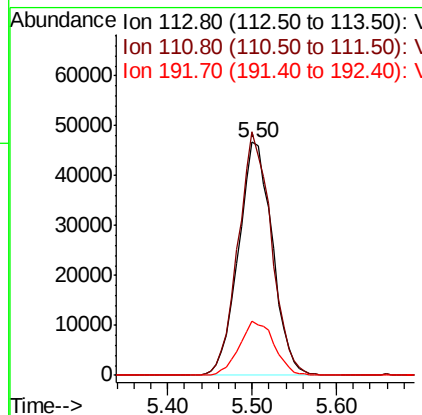
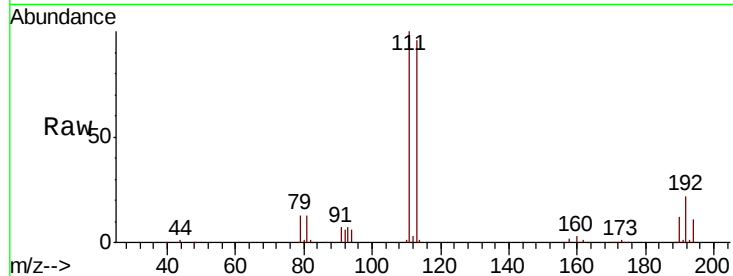




#35
 Dibromofluoromethane
 Concen: 39.37 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

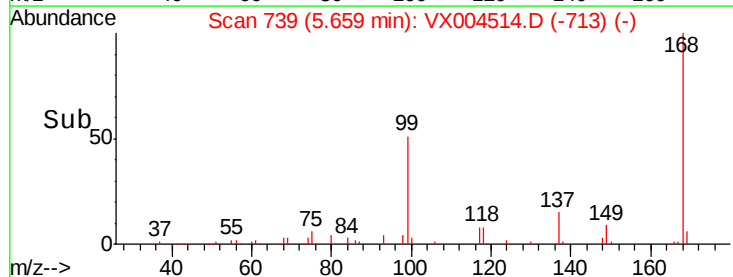
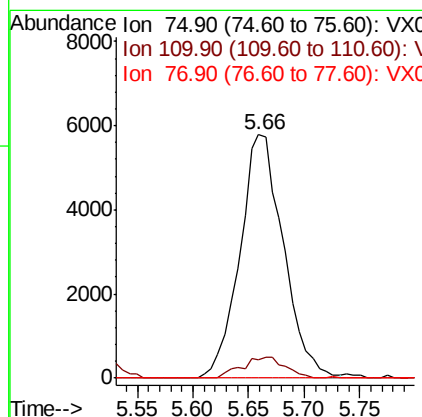
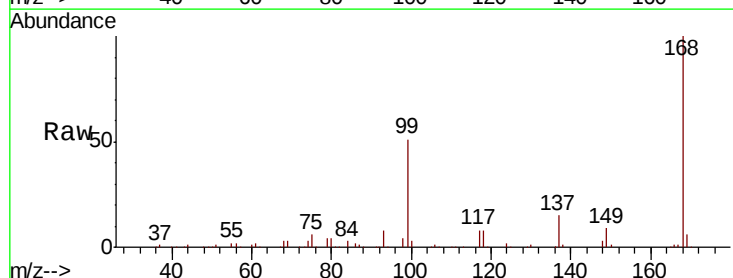
Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-2

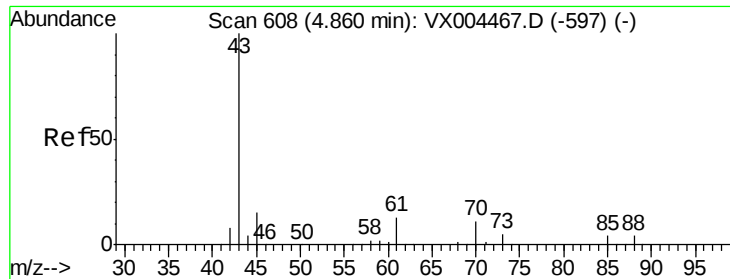
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	23.8	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.67 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.0	54.0#
77	0.0	24.6	36.8#





#37

Ethyl Acetate

Concen: 0.64 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.16 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-2

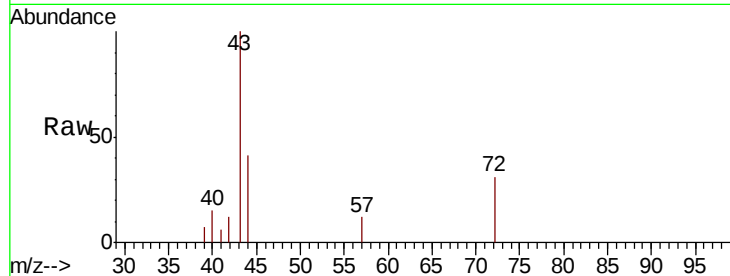
Tot Ion: 43 Resp: 3106

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

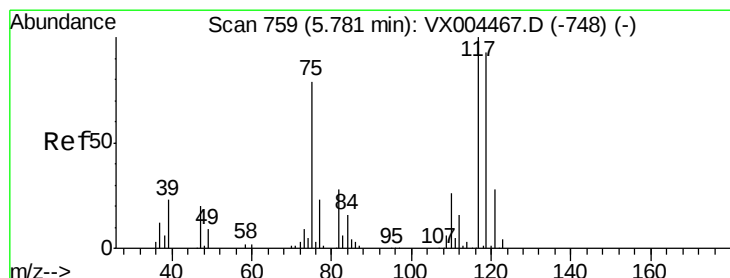
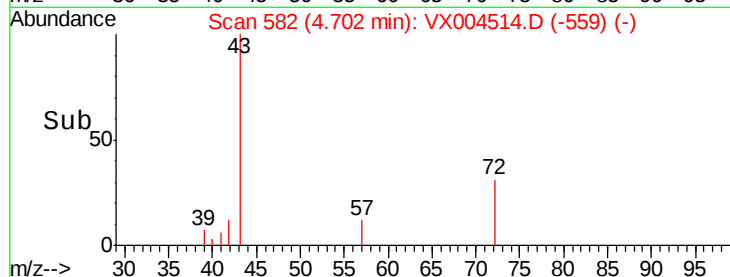
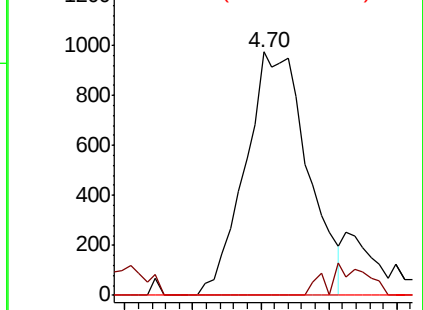
70 0.0 9.0 13.6#



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: 5.01 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

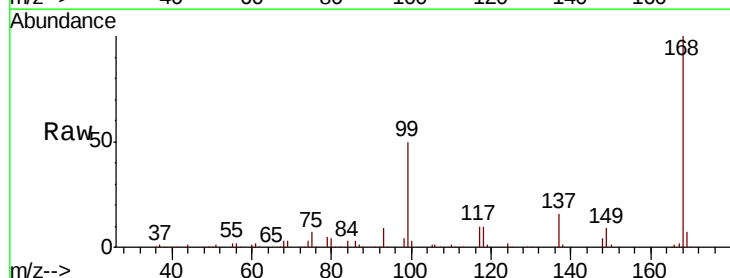
Tgt Ion: 117 Resp: 20978

Ion Ratio Lower Upper

117 100

119 6.5 78.8 118.2#

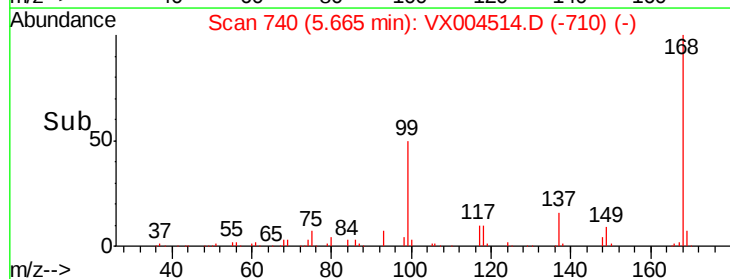
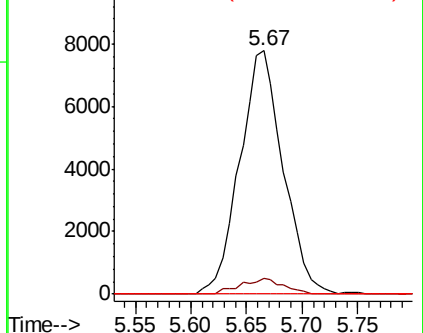
121 0.0 24.9 37.3#

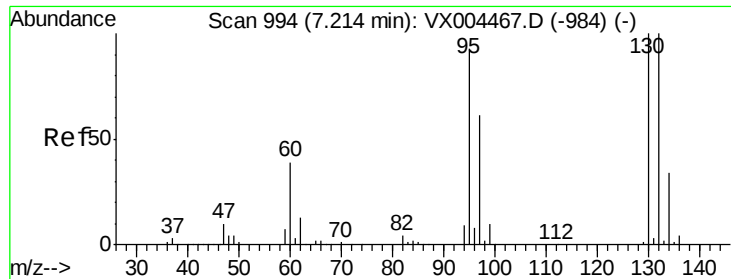


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

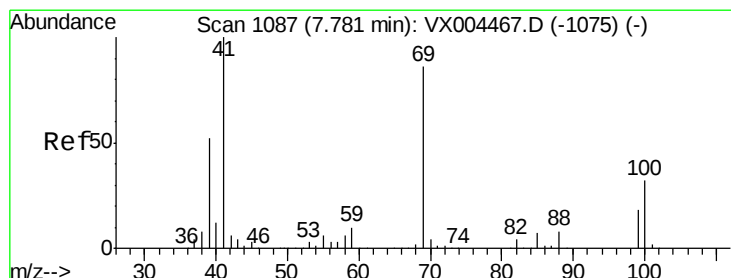
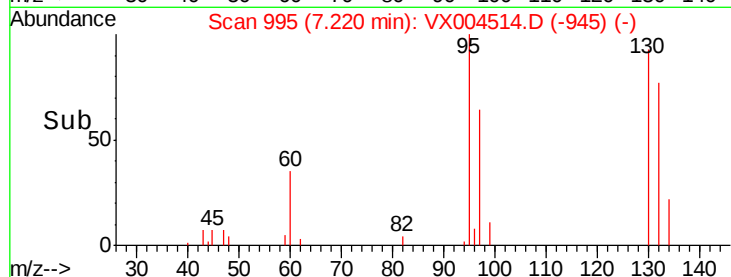
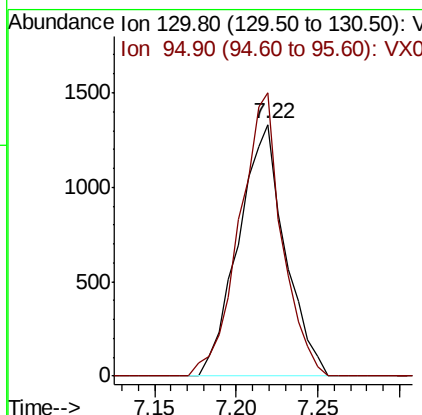
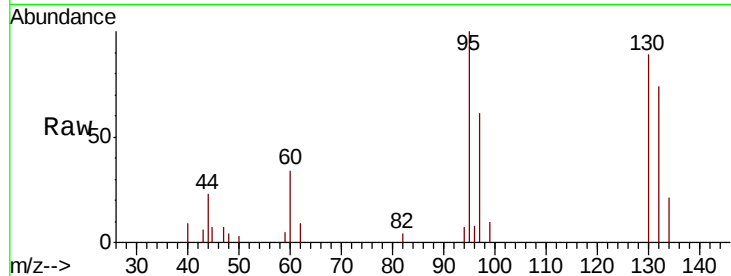




#44
 Trichloroethene
 Concen: 0.80 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

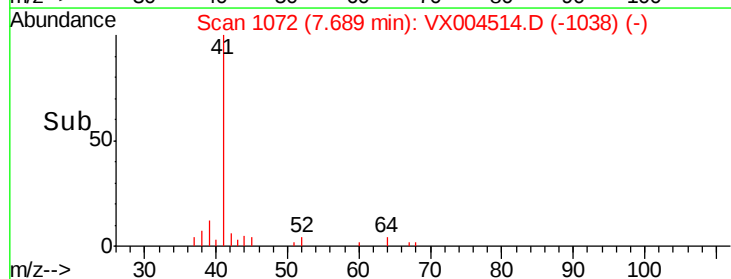
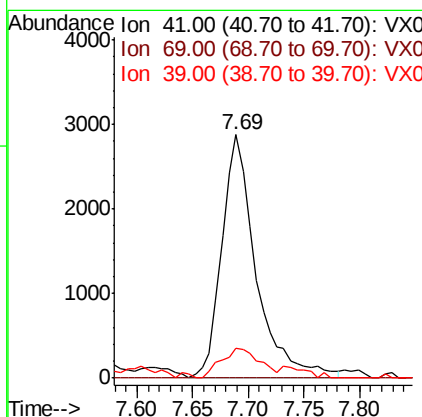
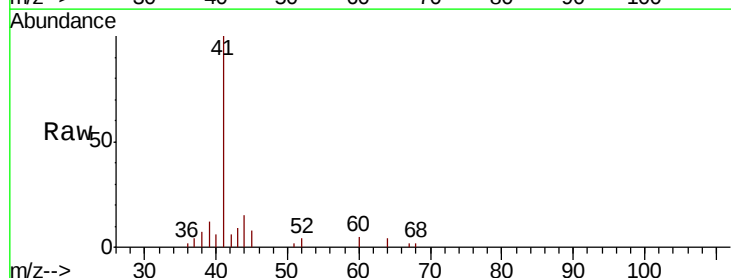
Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-2

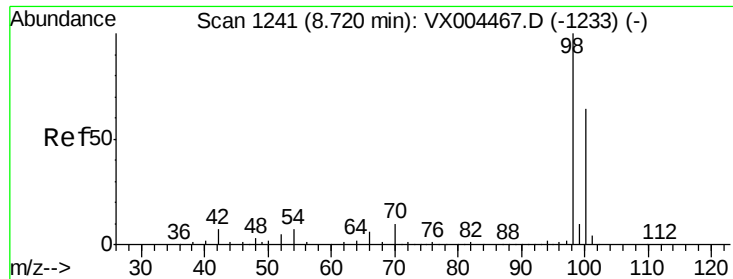
Tot Ion:130 Resp: 2657
 Ion Ratio Lower Upper
 130 100
 95 112.5 0.0 181.6



#48
 Methyl methacrylate
 Concen: 1.93 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

Tgt Ion: 41 Resp: 6174
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.2 105.4#
 39 13.7 42.7 64.1#

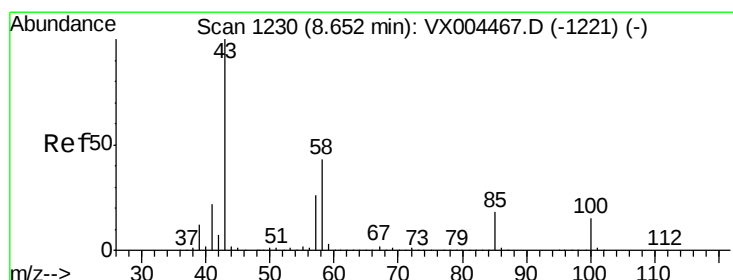
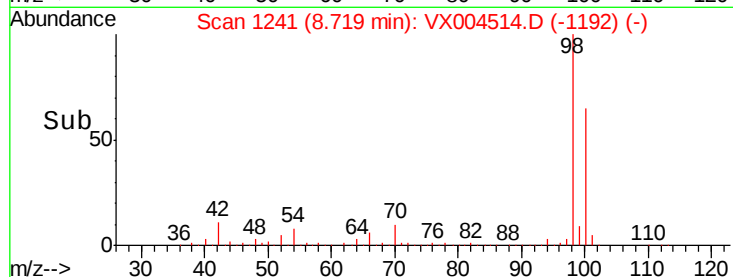
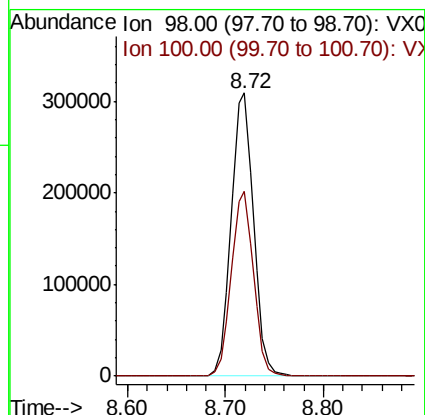
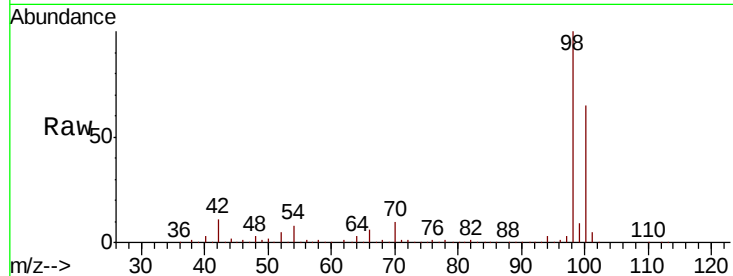




#50
Toluene-d8
Concen: 45.30 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

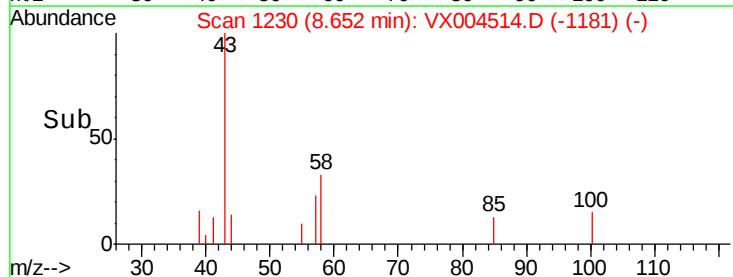
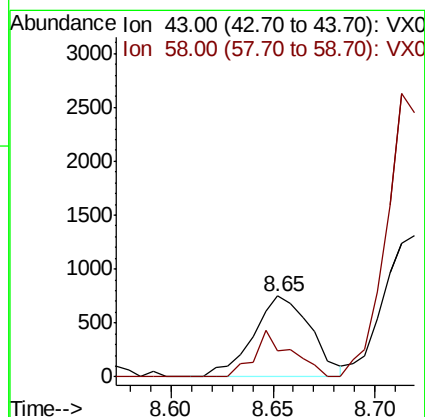
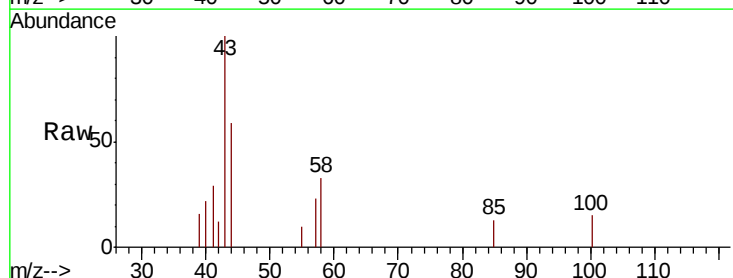
Instrument :
MSVOA_X
ClientSampled :
NF-CON-2

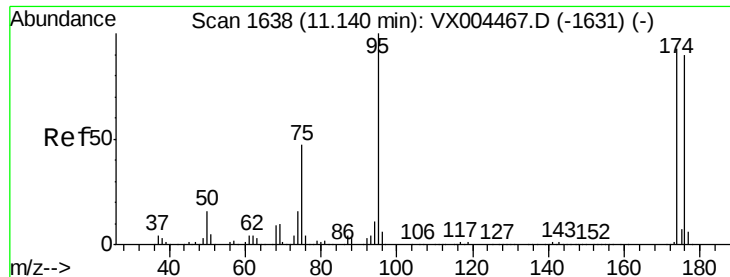
Tot Ion: 98 Resp: 490352
Ion Ratio Lower Upper
98 100
100 64.7 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.32 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. -0.00 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

Tgt Ion: 43 Resp: 1471
Ion Ratio Lower Upper
43 100
58 36.2 33.1 49.7

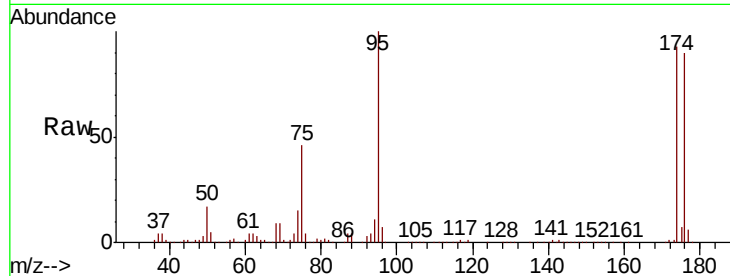




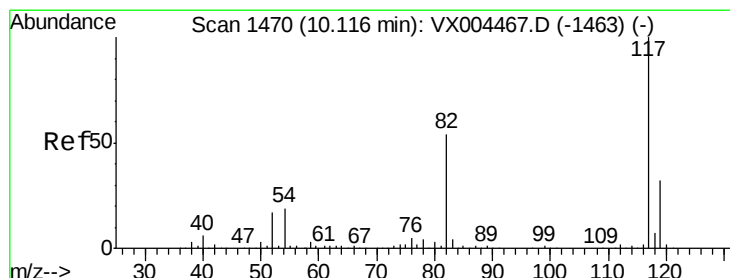
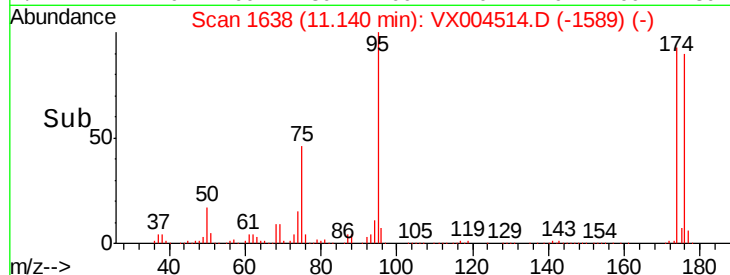
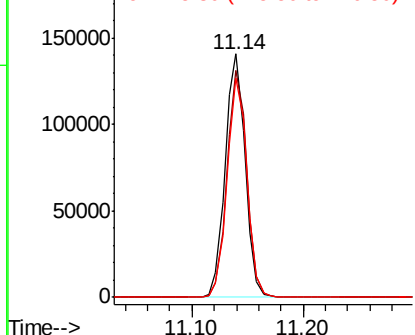
#62
4-Bromofluorobenzene
Concen: 45.11 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

Instrument :
MSVOA_X
ClientSampleId :
NF-CON-2

Tot Ion: 95 Resp: 174310
Ion Ratio Lower Upper
95 100
174 92.8 0.0 185.2
176 89.6 0.0 178.6

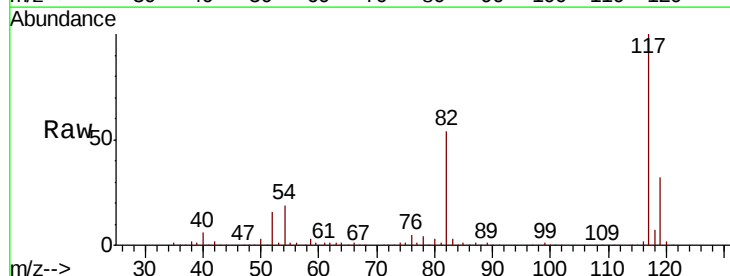


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

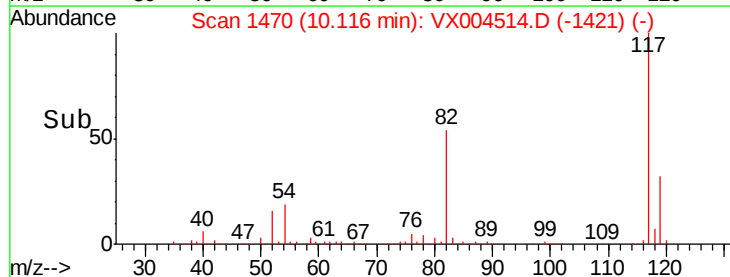
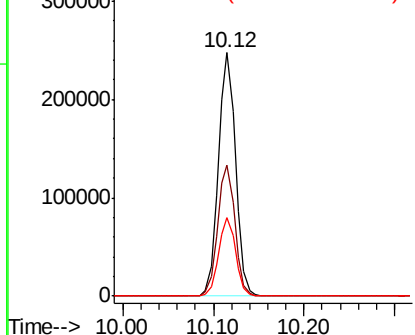


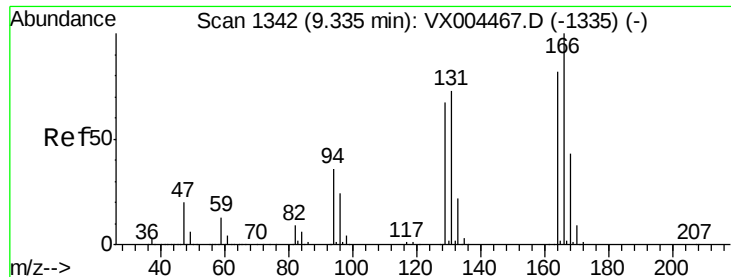
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004514.D
Acq: 13 Sep 2018 14:21

Tgt Ion: 117 Resp: 328386
Ion Ratio Lower Upper
117 100
82 53.8 47.8 71.6
119 32.3 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

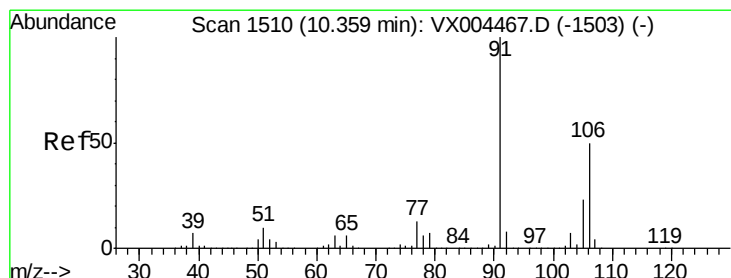
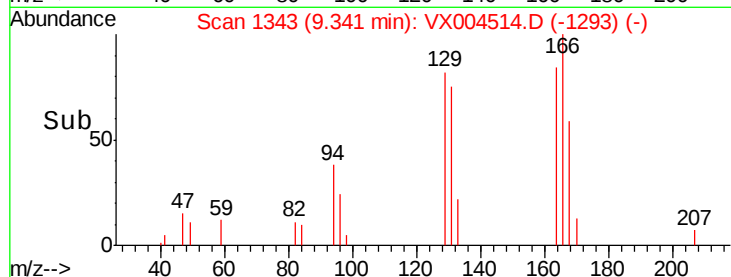
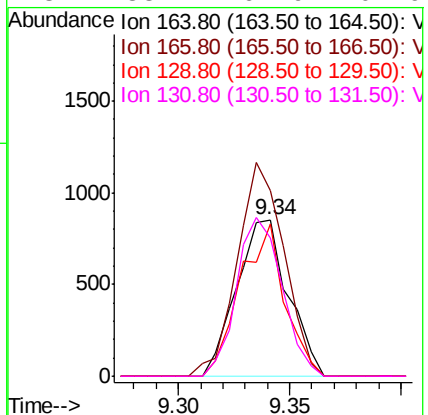
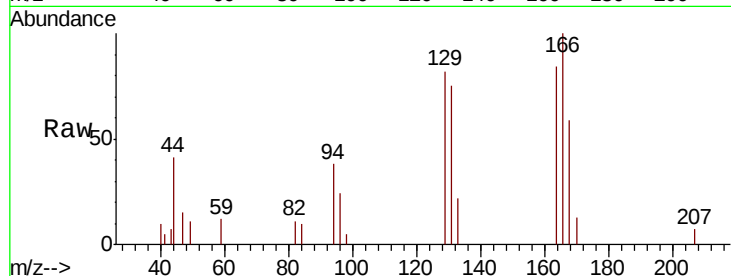




#64
 Tetrachloroethene
 Concen: 0.34 ug/l
 RT: 9.34 min Scan# 1343
 Delta R.T. 0.01 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

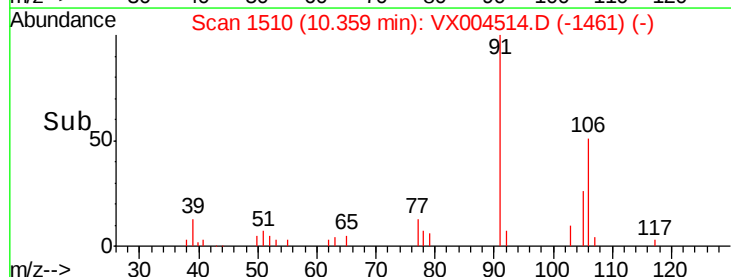
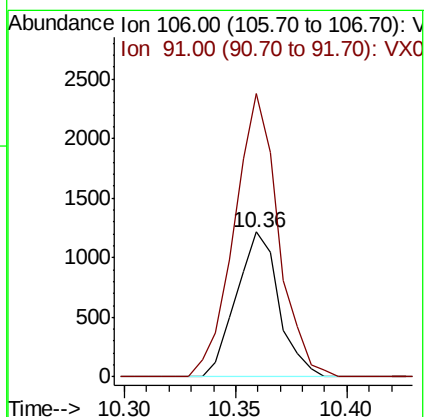
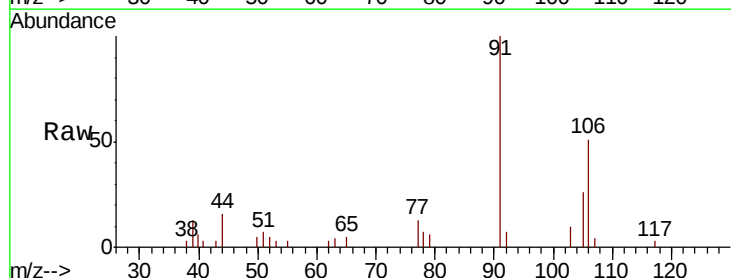
Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-2

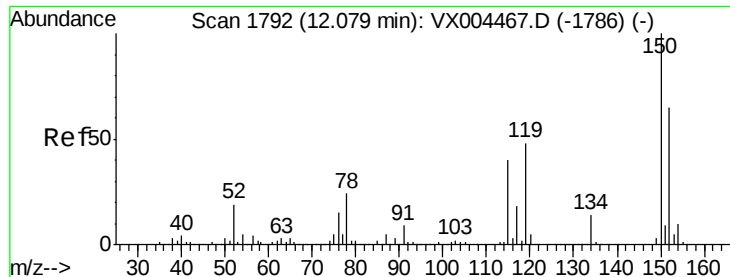
Tot Ion:	164	Resp:	1374
Ion	Ratio	Lower	Upper
164	100		
166	118.5	102.8	154.2
129	97.3	69.4	104.0
131	88.4	67.9	101.9



#68
 m/p-Xylenes
 Concen: 0.32 ug/l
 RT: 10.36 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

Tgt Ion:	106	Resp:	1617
Ion	Ratio	Lower	Upper
106	100		
91	203.3	157.1	235.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-2

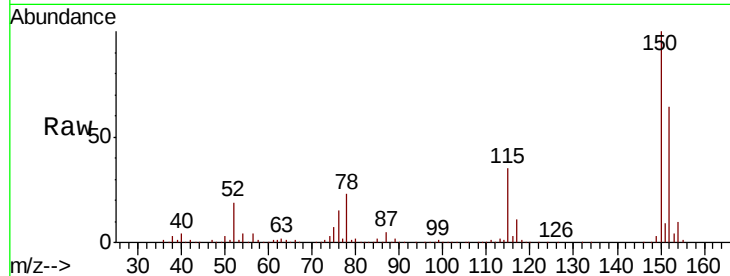
Tot Ion:152 Resp: 185220

Ion Ratio Lower Upper

152 100

115 54.8 39.0 117.0

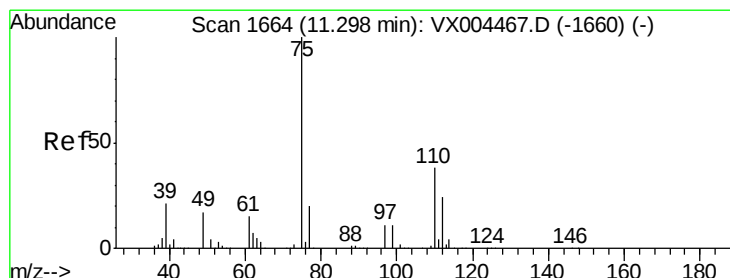
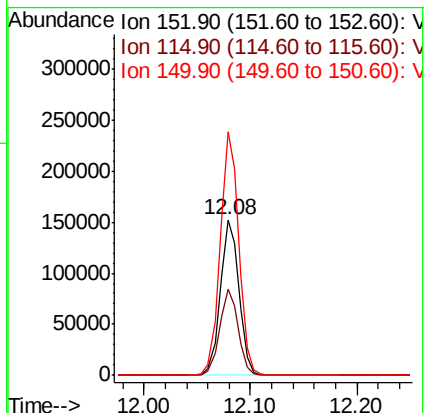
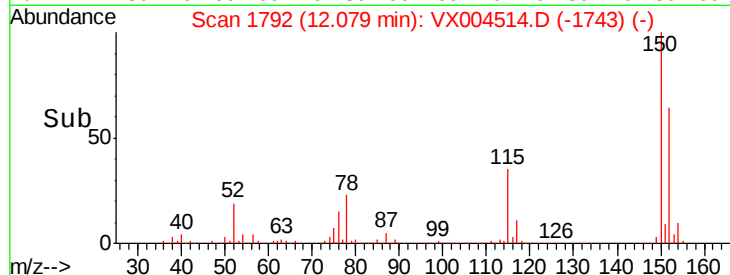
150 156.1 0.0 351.0



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: 22.03 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004514.D

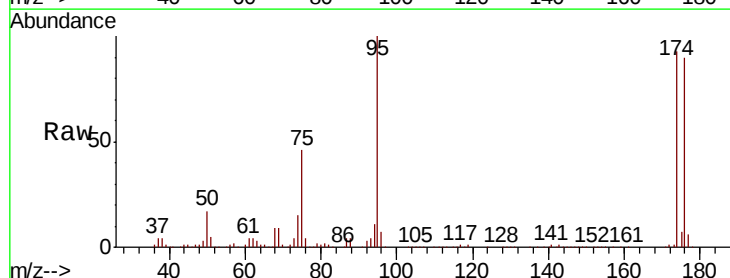
Acq: 13 Sep 2018 14:21

Tgt Ion: 75 Resp: 82087

Ion Ratio Lower Upper

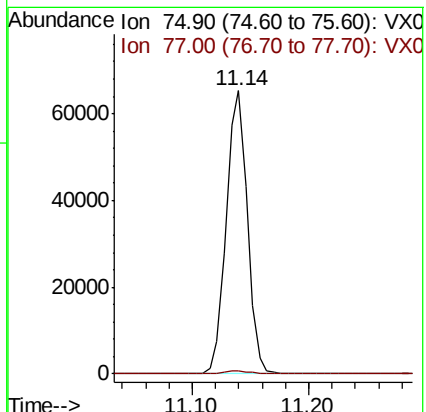
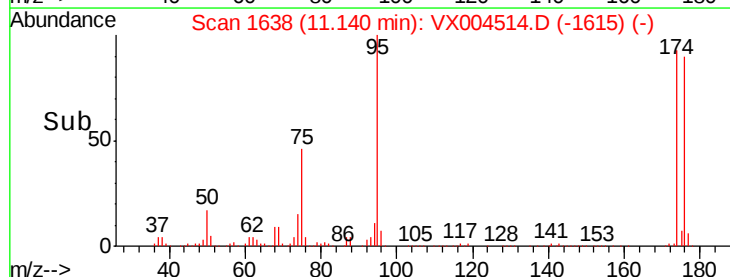
75 100

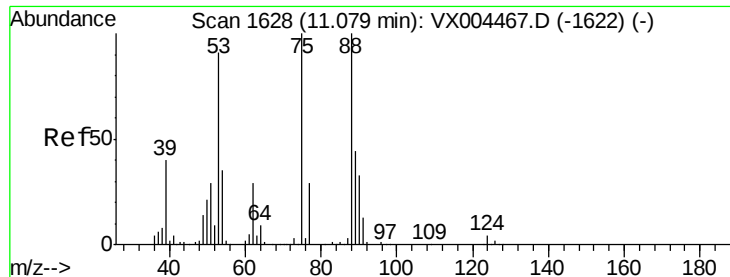
77 1.2 20.2 60.6#



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: 70.21 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004514.D

Acq: 13 Sep 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

NF-CON-2

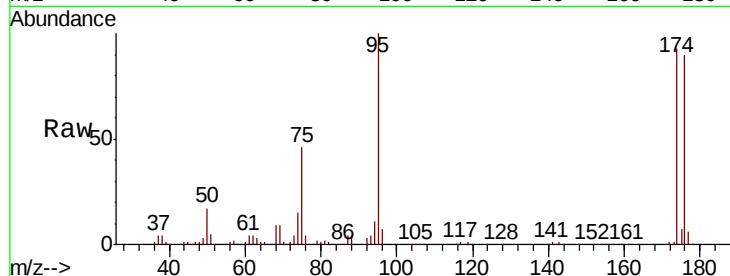
Tot Ion: 75 Resp: 82087

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

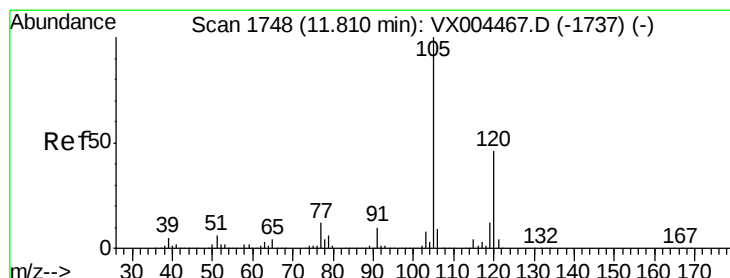
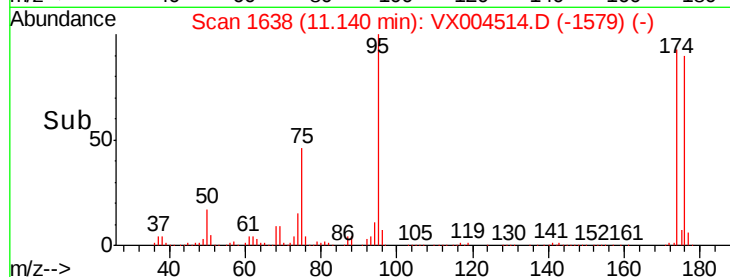
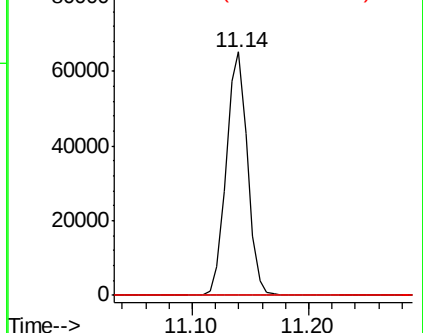
89 0.0 37.2 55.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.25 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VX004514.D

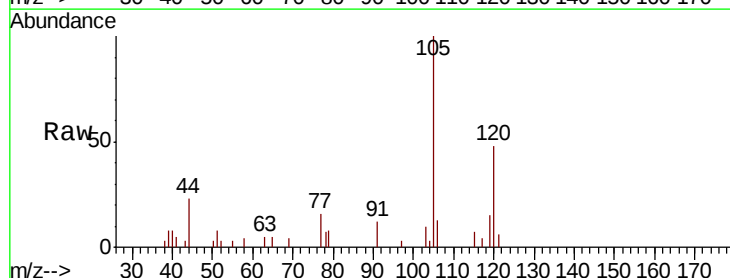
Acq: 13 Sep 2018 14:21

Tgt Ion:105 Resp: 2613

Ion Ratio Lower Upper

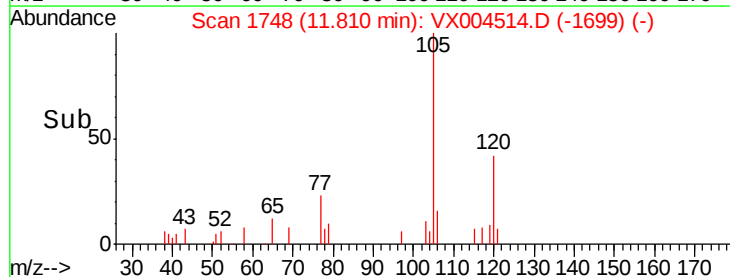
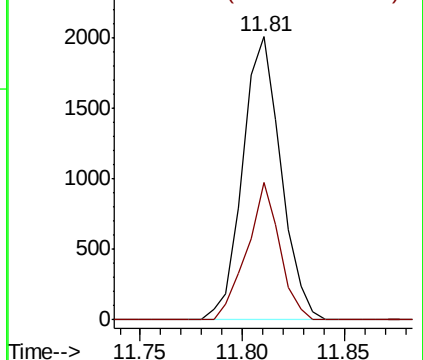
105 100

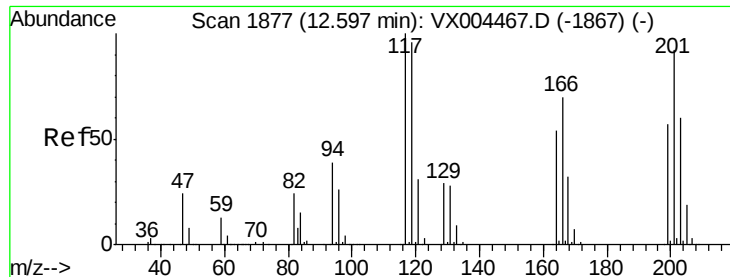
120 41.5 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

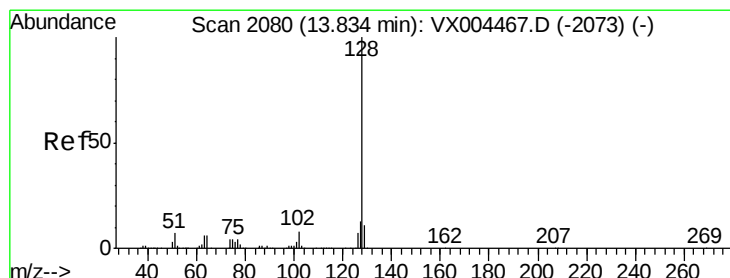
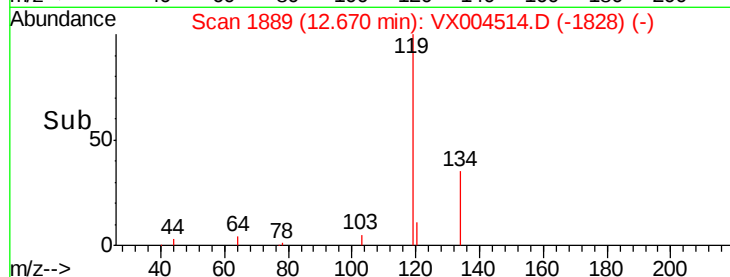
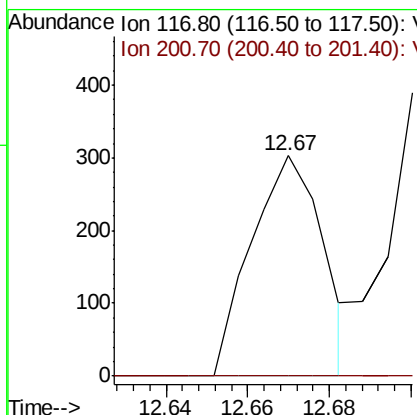
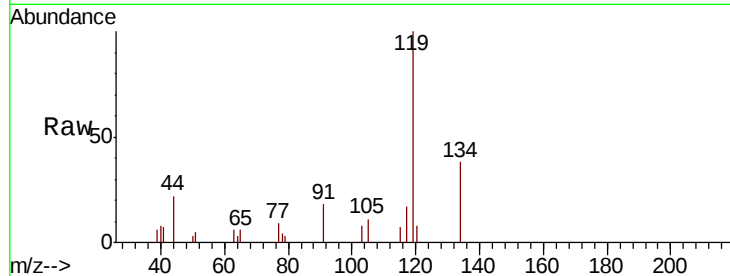




#90
 Hexachloroethane
 Concen: 0.21 ug/l
 RT: 12.67 min Scan# 1889
 Delta R.T. 0.07 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

Instrument :
 MSVOA_X
 ClientSampleId :
 NF-CON-2

Tot Ion:117 Resp: 372
 Ion Ratio Lower Upper
 117 100
 201 0.0 46.9 140.6#



#95
 Naphthalene
 Concen: 10.75 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX004514.D
 Acq: 13 Sep 2018 14:21

Tgt Ion:128 Resp: 135943
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.2 15.2
 129 11.1 8.6 12.8

