

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041119\
 Data File : VX008854.D
 Acq On : 11 Apr 2019 16:07
 Operator : JC/SP
 Sample : K2349-17DL 4X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M-19-190409DL

Quant Time: Apr 12 07:35:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

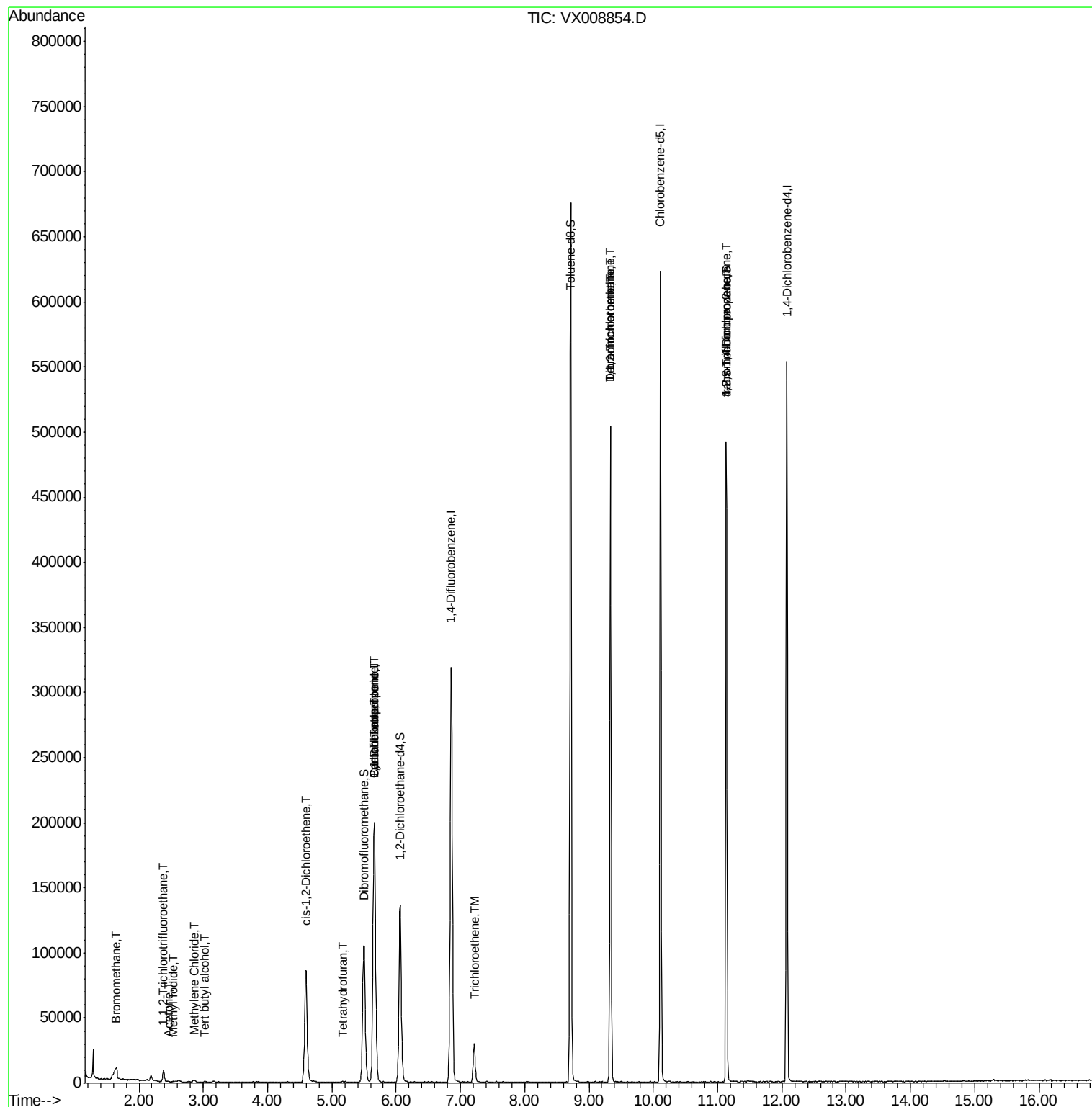
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	192220	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	311099	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	267533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113147	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	127744	45.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.12%	
35) Dibromofluoromethane	5.50	113	91124	45.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.62%	
50) Toluene-d8	8.71	98	387190	48.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.78%	
62) 4-Bromofluorobenzene	11.13	95	130170	46.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.70%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	333	Below Cal	#	88
5) Bromomethane	1.64	94	516	2.222 ug/l	#	66
6) Chloroethane	1.73	64	19	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.38	101	3464	1.627 ug/l		97
10) Methyl Iodide	2.53	142	224	4.109 ug/l	#	81
11) Tert butyl alcohol	3.01	59	191	0.291 ug/l	#	72
16) Acetone	2.45	43	621	0.385 ug/l		93
17) Carbon Disulfide	2.56	76	571	Below Cal	#	75
20) Methylene Chloride	2.85	84	688	0.255 ug/l		88
27) cis-1,2-Dichloroethene	4.60	96	53953	19.523 ug/l		89
28) Bromochloromethane	5.00	49	50	Below Cal	#	22
29) Tetrahydrofuran	5.17	42	345	0.204 ug/l	#	57
31) Cyclohexane	5.66	56	4240	0.875 ug/l	#	1
36) 1,1-Dichloropropene	5.65	75	15364	4.518 ug/l	#	50
38) Carbon Tetrachloride	5.66	117	18260	6.488 ug/l	#	17
44) Trichloroethene	7.21	130	11089	4.700 ug/l		99
55) 1,1,2-Trichloroethane	9.33	97	817	0.341 ug/l	#	1
60) Dibromochloromethane	9.34	129	91702	40.591 ug/l	#	11
64) Tetrachloroethene	9.34	164	98281	49.583 ug/l		98
76) 1,2,3-Trichloropropane	11.13	75	65726	21.146 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.13	75	65726	58.289 ug/l	#	9

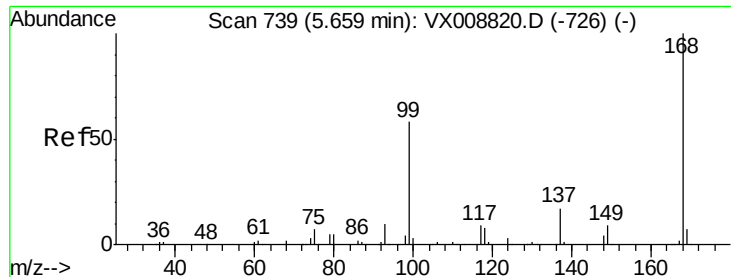
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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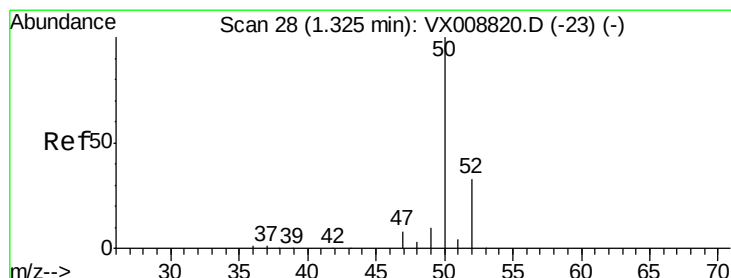
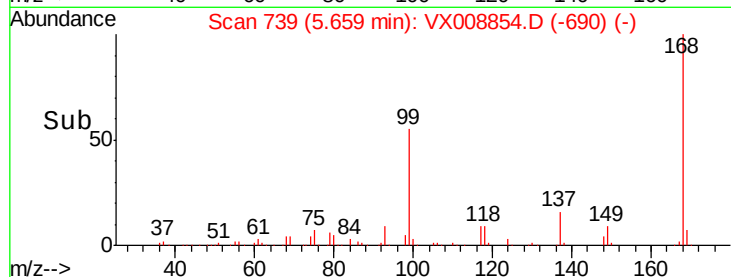
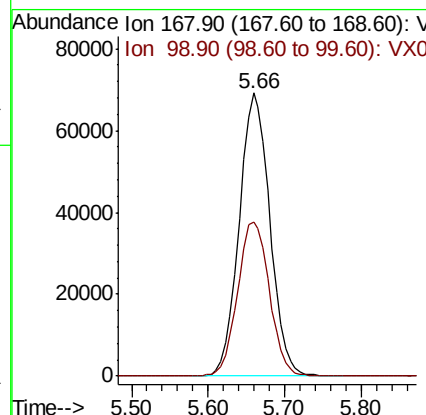
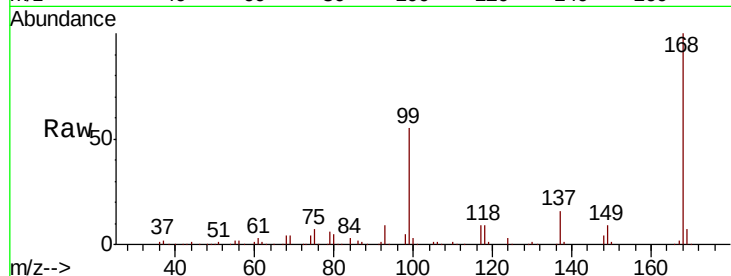




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.00 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

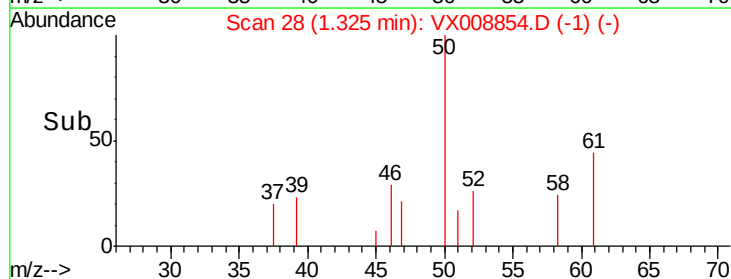
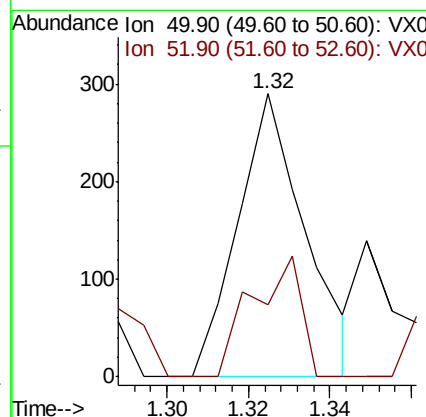
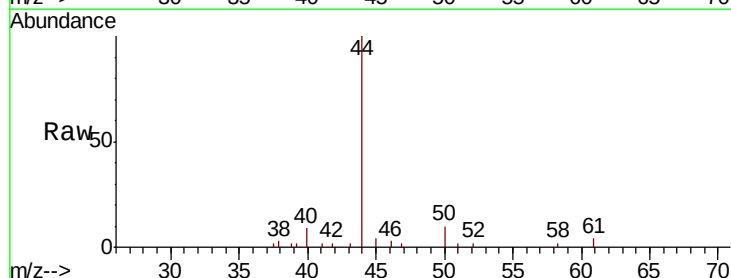
Instrument :
MSVOA_X
ClientSampleId :
M-19-190409DL

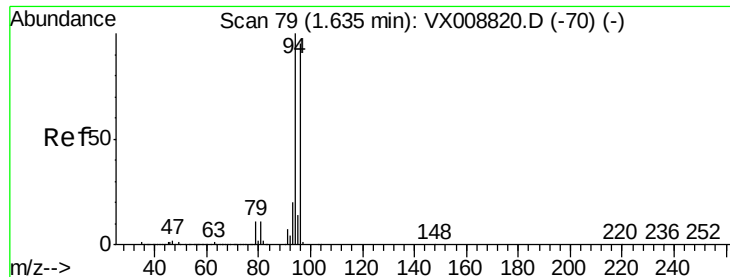
Tgt Ion:168 Resp: 192220
Ion Ratio Lower Upper
168 100
99 54.5 46.7 70.1



#3
Chloromethane
Concen: Below Cal
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

Tgt Ion: 50 Resp: 333
Ion Ratio Lower Upper
50 100
52 25.5 25.8 38.8#





#5

Bromomethane

Concen: 2.222 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

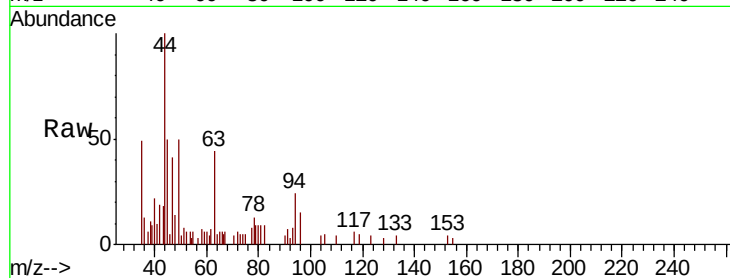
M-19-190409DL

Tgt Ion: 94 Resp: 516

Ion Ratio Lower Upper

94 100

96 60.8 75.2 112.8#

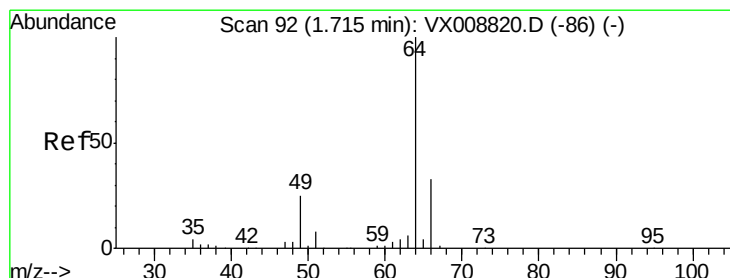
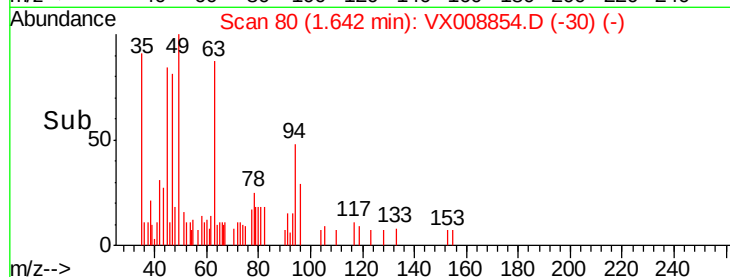


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX008854.D

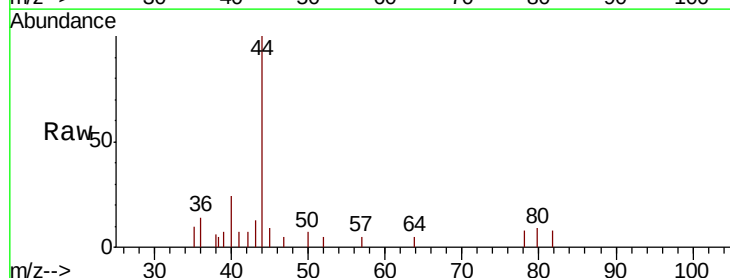
Acq: 11 Apr 2019 16:07

Tgt Ion: 64 Resp: 19

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#

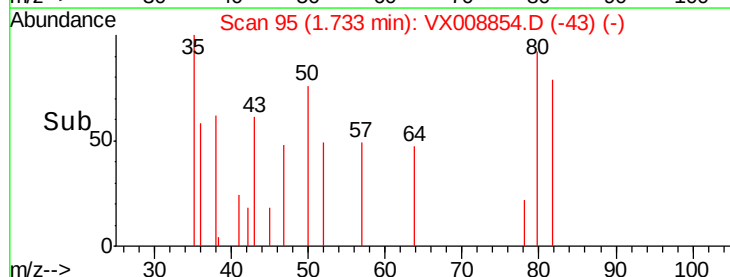


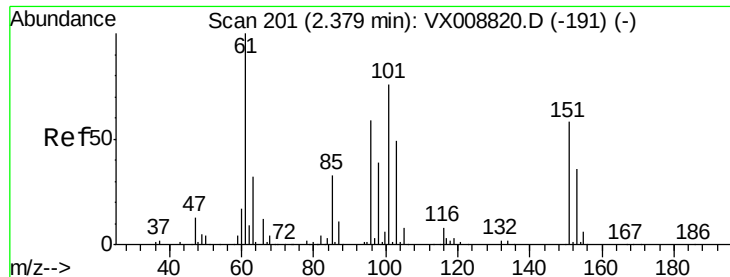
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.627 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409DL

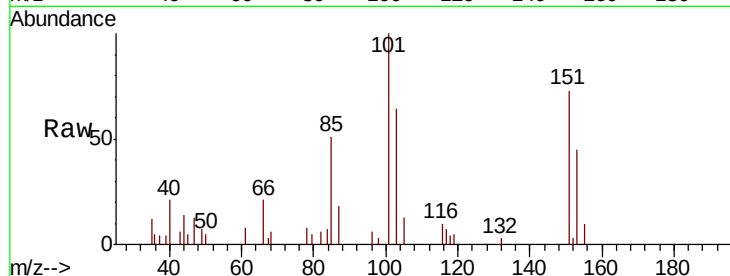
Tgt Ion:101 Resp: 3464

Ion Ratio Lower Upper

101 100

85 47.9 36.0 54.0

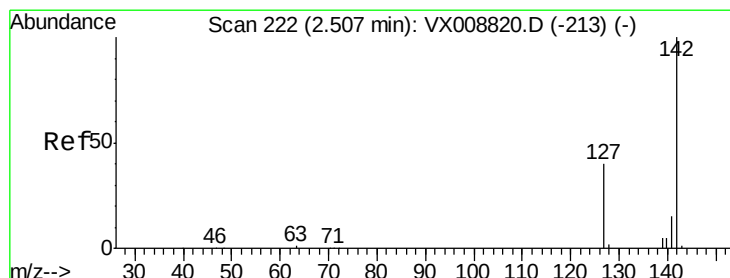
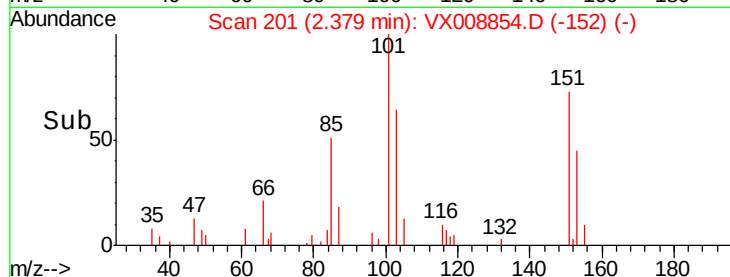
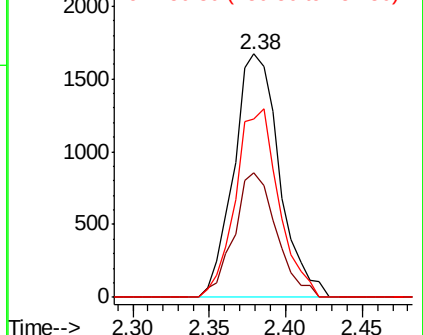
151 73.2 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.109 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

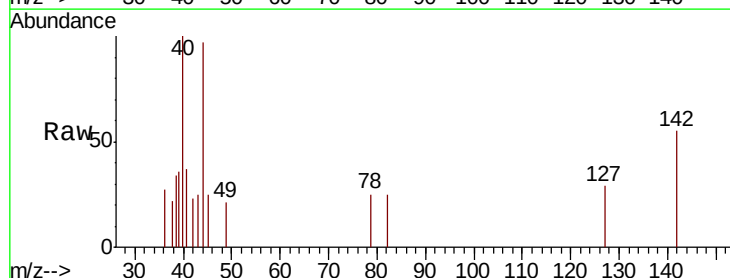
Tgt Ion:142 Resp: 224

Ion Ratio Lower Upper

142 100

127 49.6 33.0 49.6

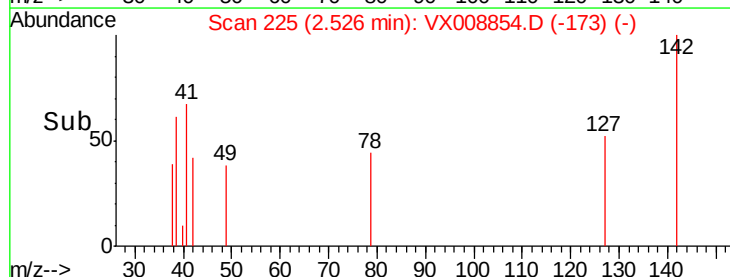
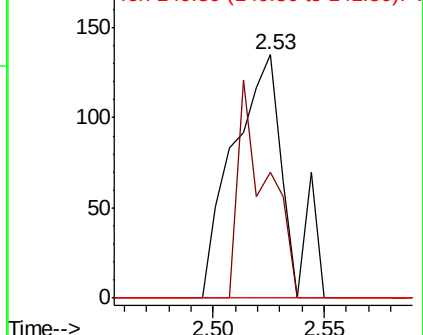
141 0.0 11.4 17.2#

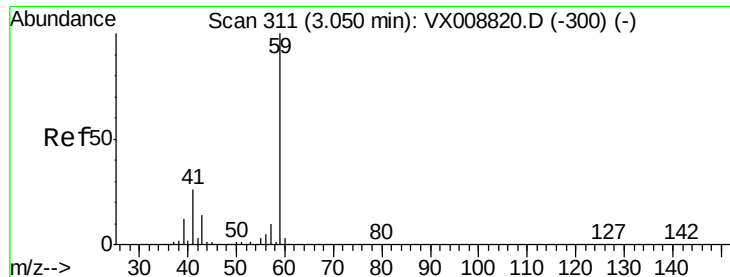


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

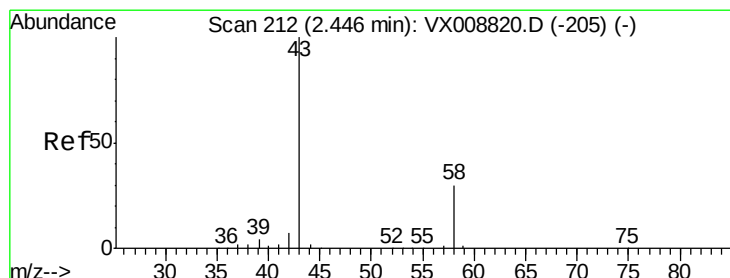
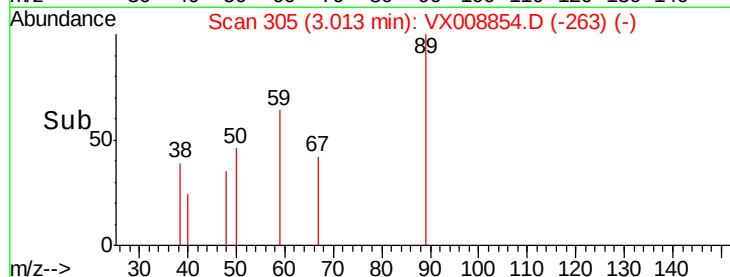
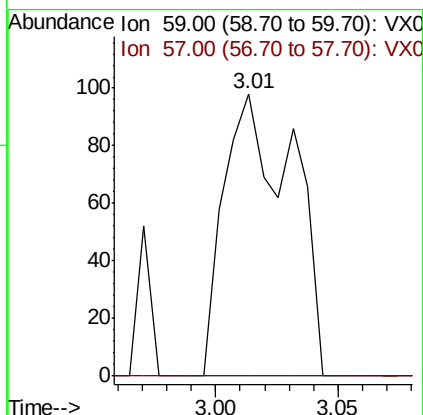
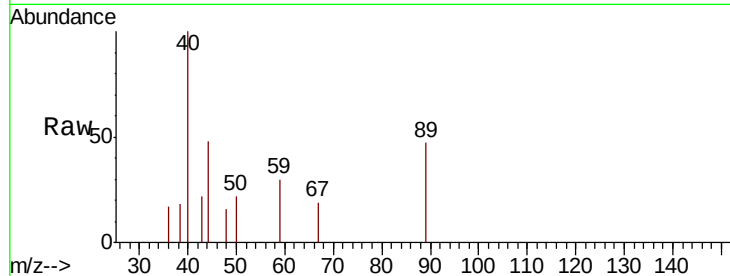




#11
Tert butyl alcohol
Concen: 0.291 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

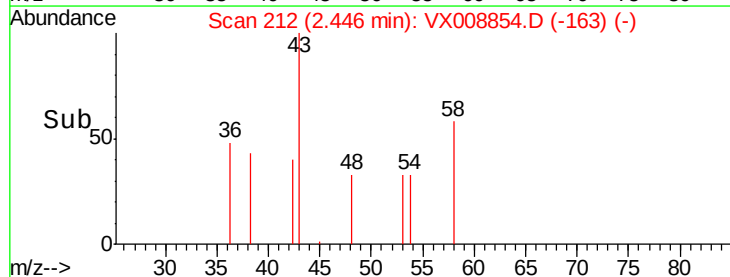
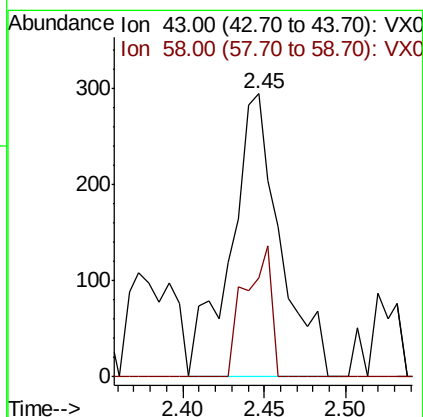
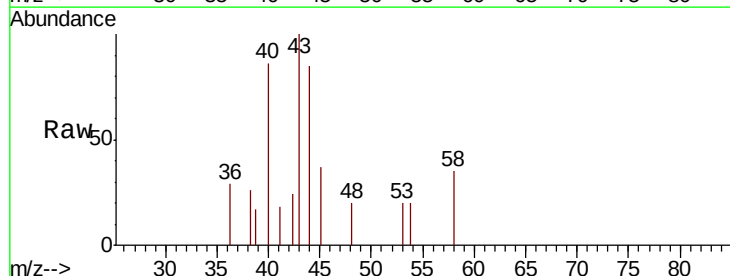
Instrument :
MSVOA_X
ClientSampleId :
M-19-190409DL

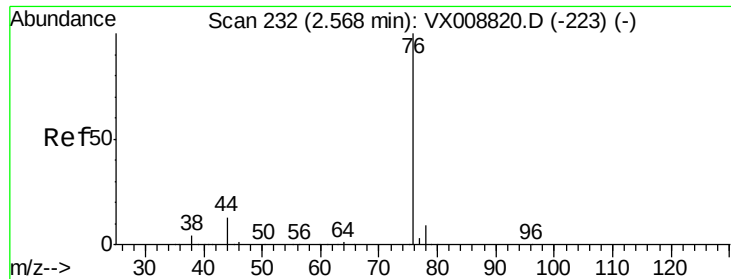
Tgt Ion: 59 Resp: 191
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 0.385 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

Tgt Ion: 43 Resp: 621
Ion Ratio Lower Upper
43 100
58 35.0 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

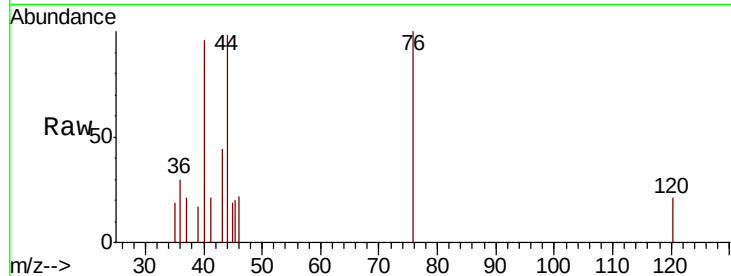
M-19-190409DL

Tgt Ion: 76 Resp: 571

Ion Ratio Lower Upper

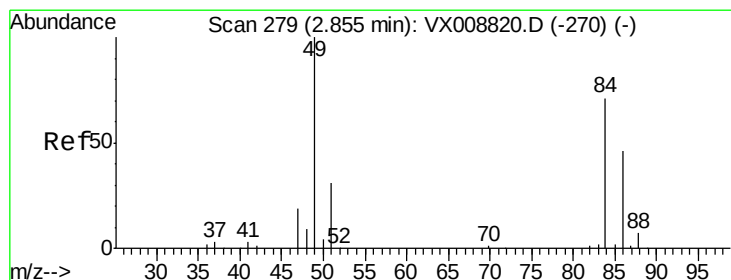
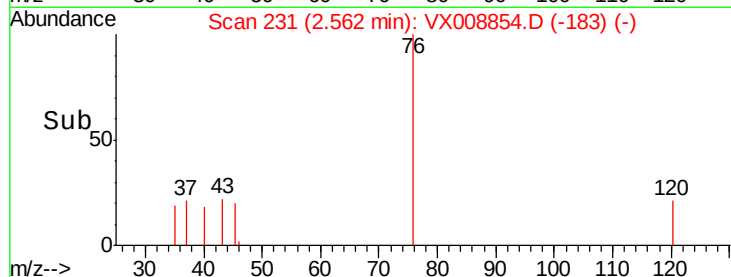
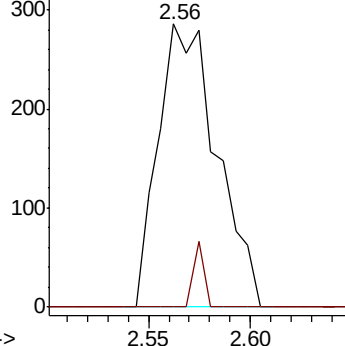
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.255 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Tgt Ion: 84 Resp: 688

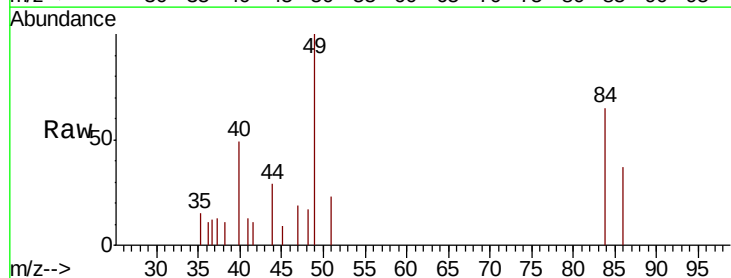
Ion Ratio Lower Upper

84 100

49 154.6 109.7 164.5

51 35.8 33.6 50.4

86 57.0 51.4 77.2

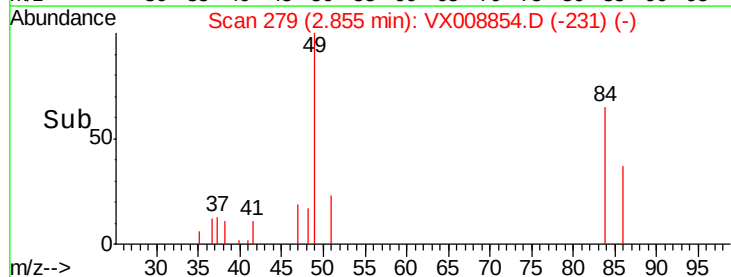
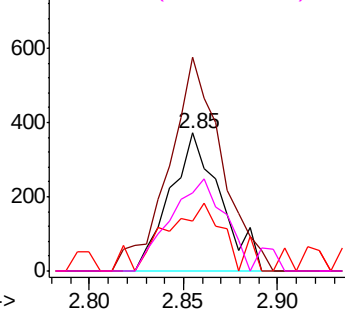


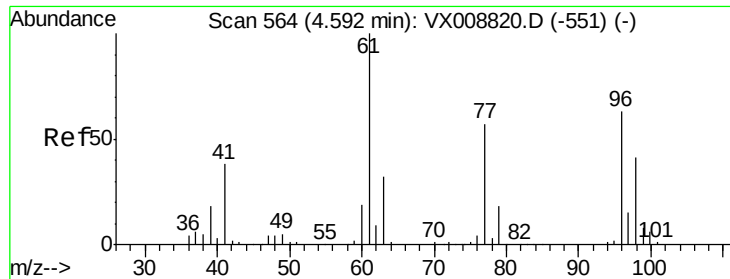
Abundance Ion 83.90 (83.60 to 84.60): VX0

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



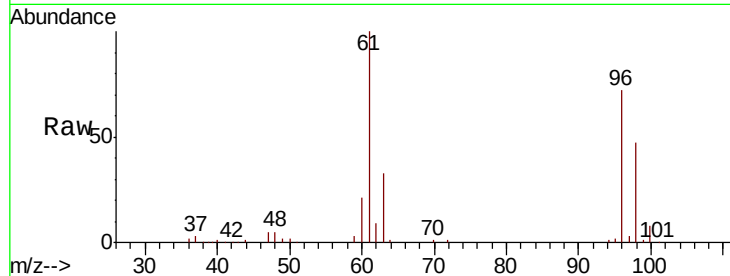


#27

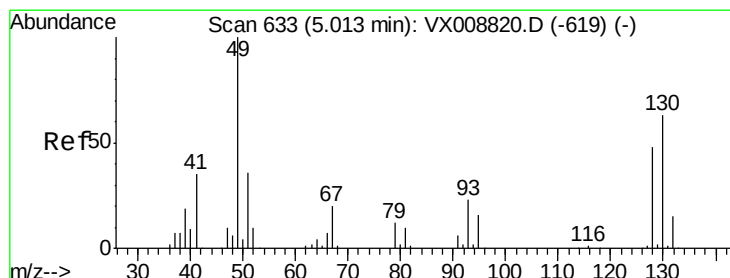
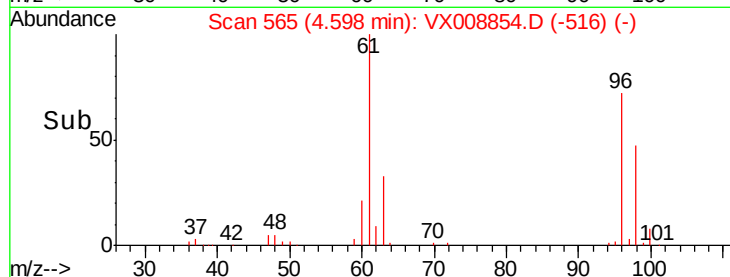
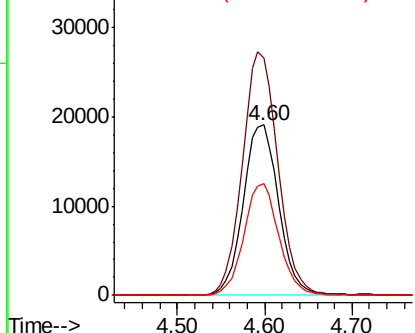
cis-1,2-Dichloroethene
Concen: 19.523 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

Instrument :
MSVOA_X
ClientSampleId :
M-19-190409DL

Tgt Ion: 96 Resp: 53953
Ion Ratio Lower Upper
96 100
61 143.3 0.0 327.6
98 64.8 0.0 128.6



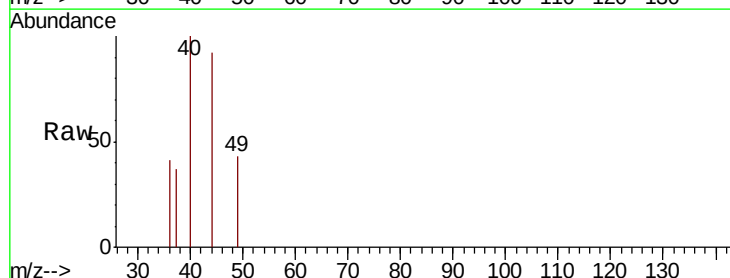
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



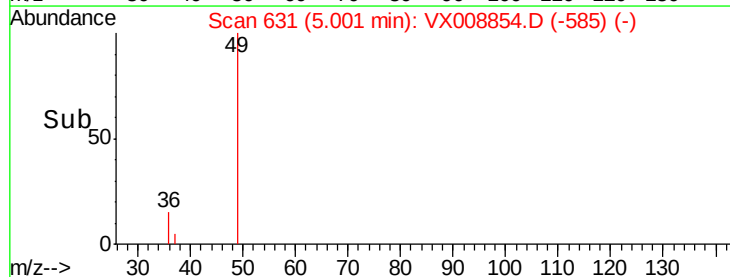
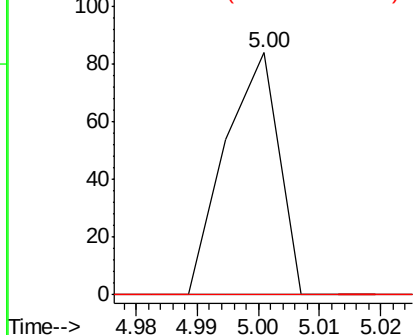
#28

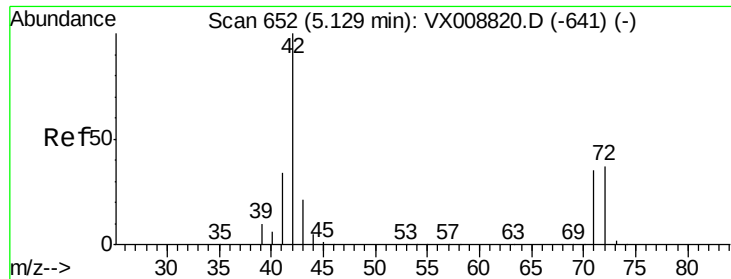
Bromochloromethane
Concen: Below Cal
RT: 5.00 min Scan# 631
Delta R.T. -0.02 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

Tgt Ion: 49 Resp: 50
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.04 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409DL

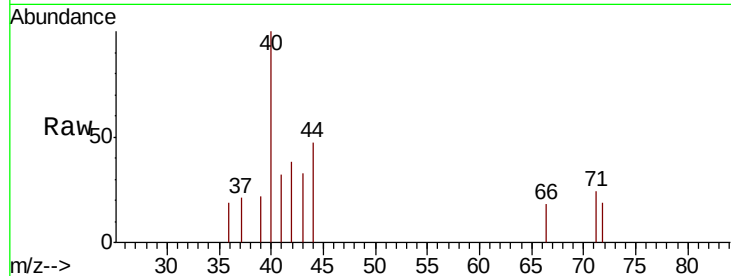
Tgt Ion: 42 Resp: 345

Ion Ratio Lower Upper

42 100

72 6.7 30.5 45.7#

71 16.5 28.6 43.0#



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

200

150

100

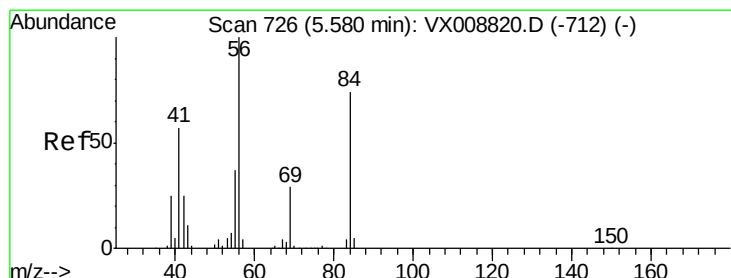
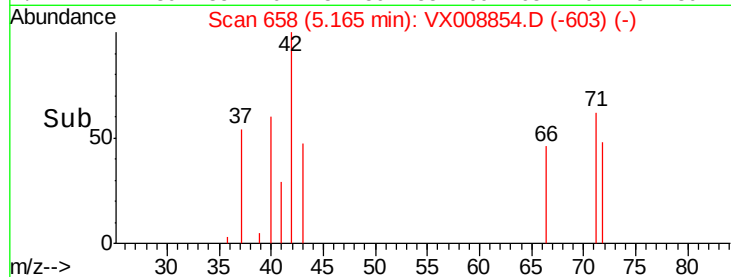
50

0

5.10 5.15

5.17

Time-->



#31

Cyclohexane

Concen: 0.875 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

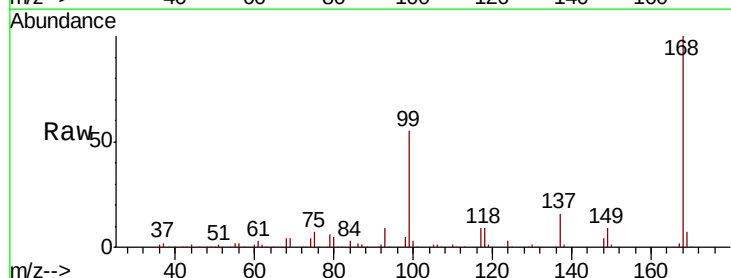
Tgt Ion: 56 Resp: 4240

Ion Ratio Lower Upper

56 100

69 197.9 22.6 33.8#

84 156.4 59.3 88.9#



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

4000

3000

2000

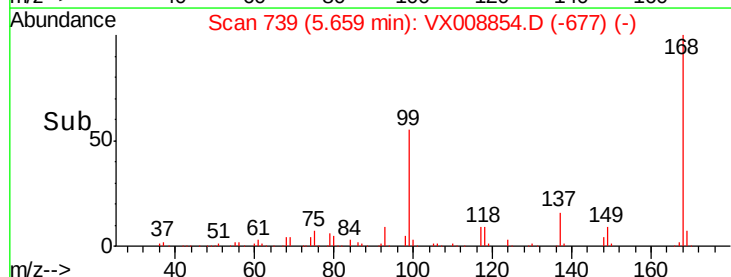
1000

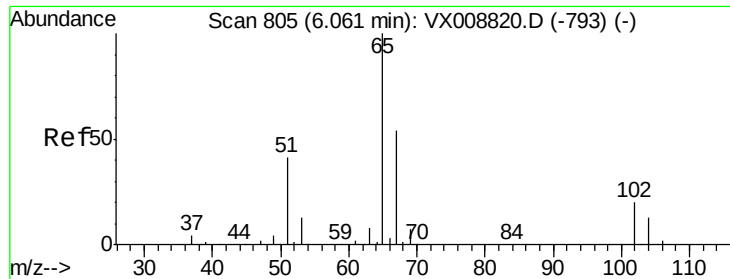
0

5.55 5.60 5.65 5.70 5.75

5.66

Time-->

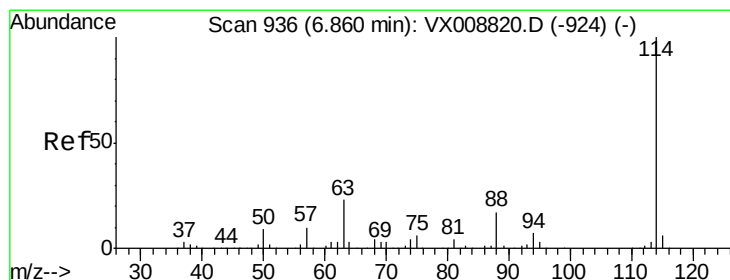
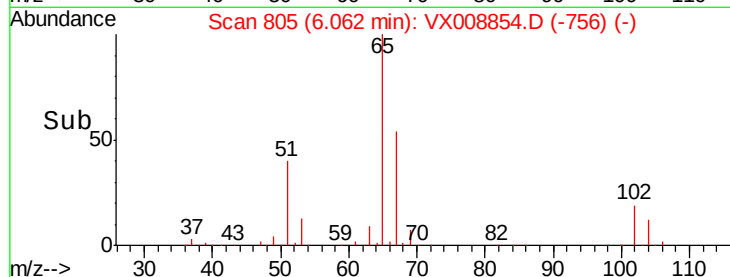
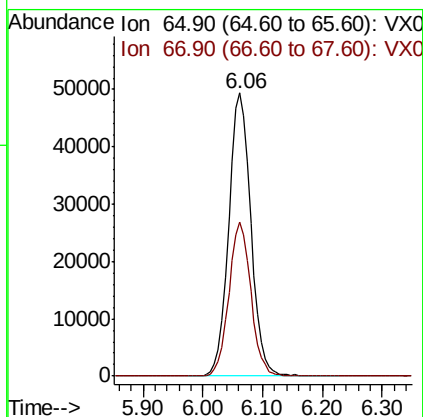
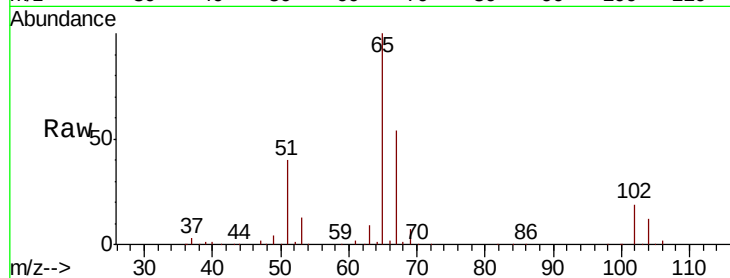




#33
 1,2-Dichloroethane-d4
 Concen: 45.564 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008854.D
 Acq: 11 Apr 2019 16:07

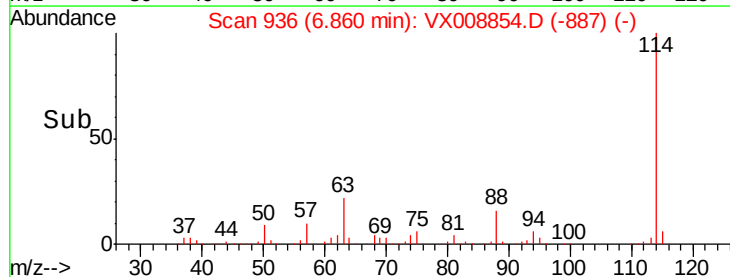
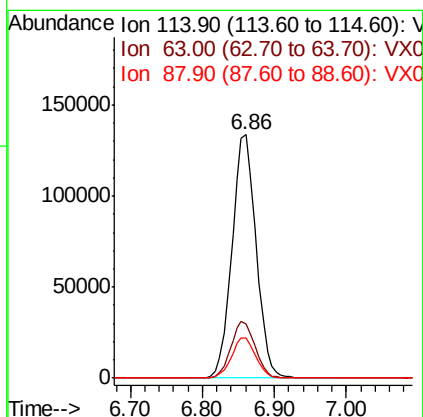
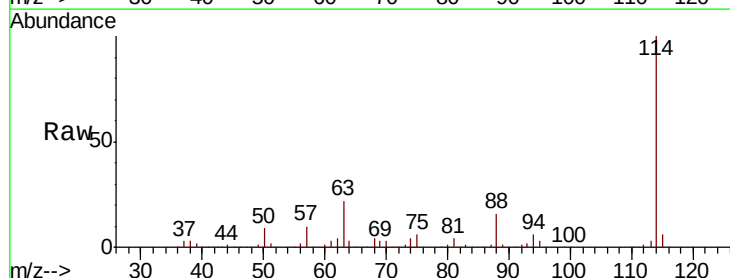
Instrument :
 MSVOA_X
 ClientSampleId :
 M-19-190409DL

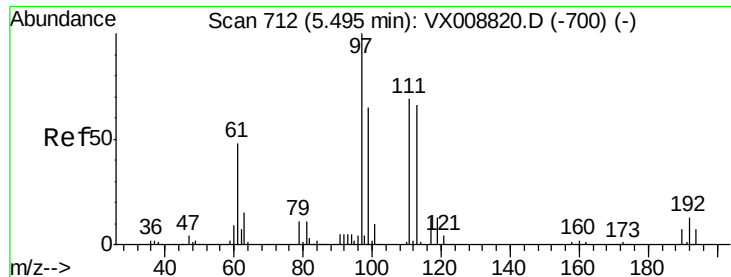
Tgt Ion: 65 Resp: 127744
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008854.D
 Acq: 11 Apr 2019 16:07

Tgt Ion: 114 Resp: 311099
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 47.2
 88 16.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 45.813 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409DL

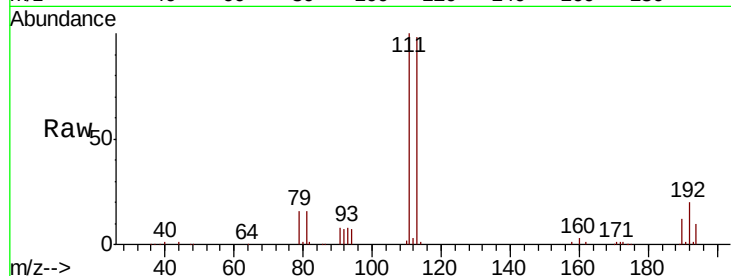
Tgt Ion:113 Resp: 91124

Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.2

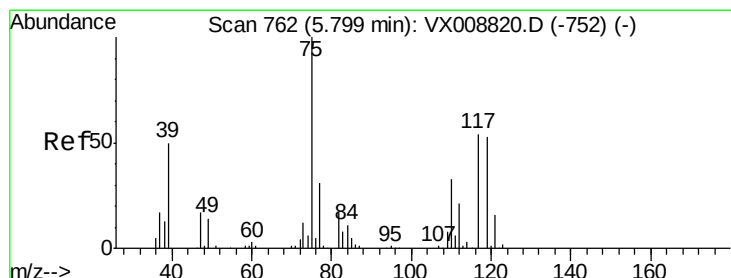
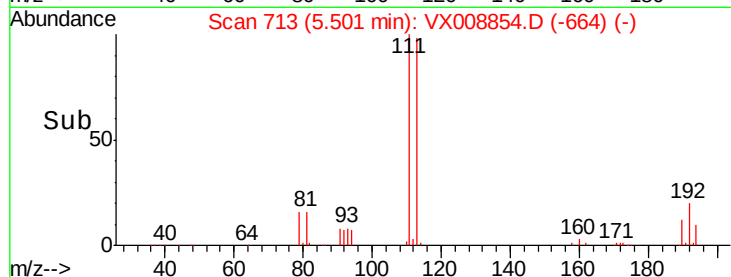
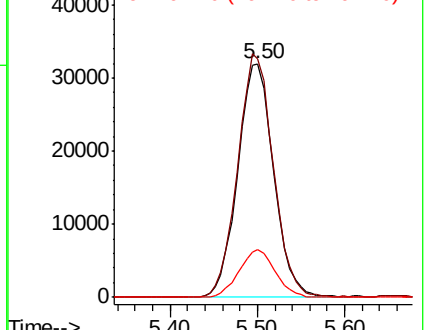
192 20.7 16.1 24.1



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: 4.518 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

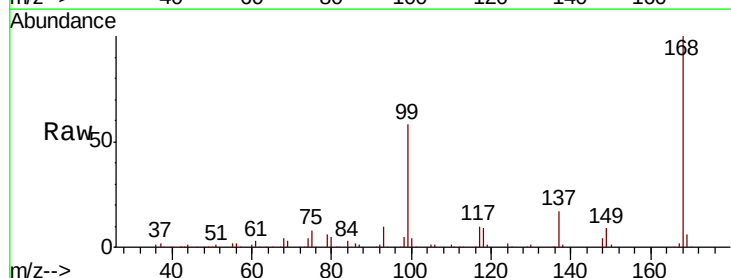
Tgt Ion: 75 Resp: 15364

Ion Ratio Lower Upper

75 100

110 8.0 16.4 49.2#

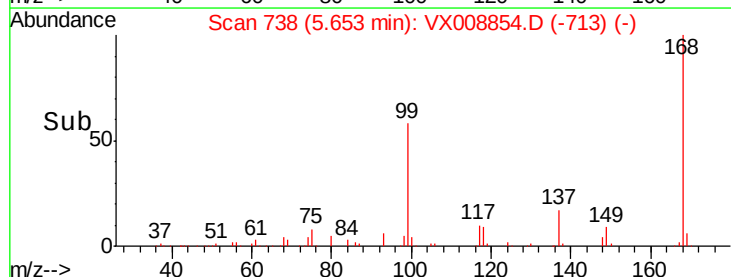
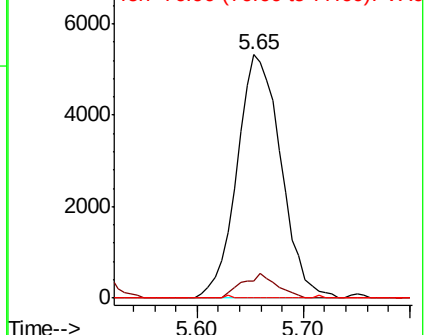
77 0.0 24.7 37.1#

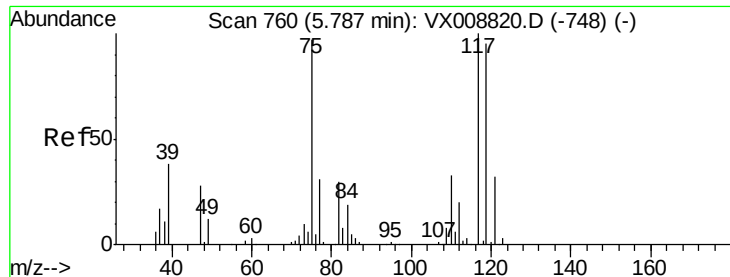


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.488 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409DL

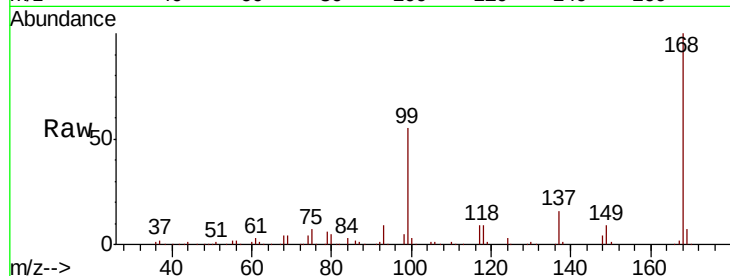
Tgt Ion:117 Resp: 18260

Ion Ratio Lower Upper

117 100

119 5.6 75.0 112.6#

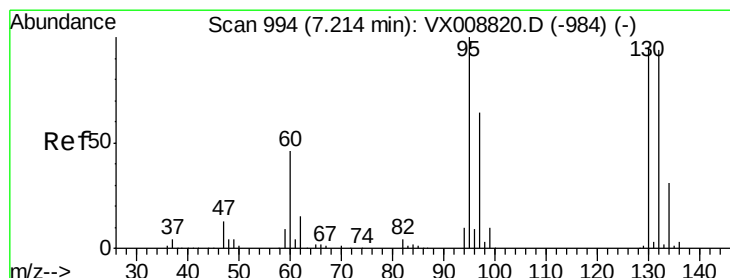
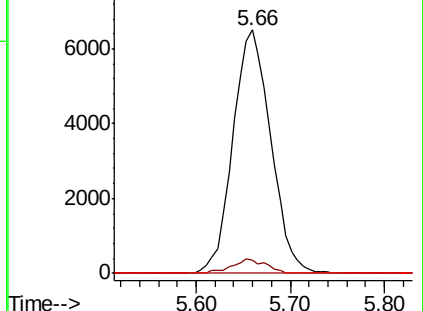
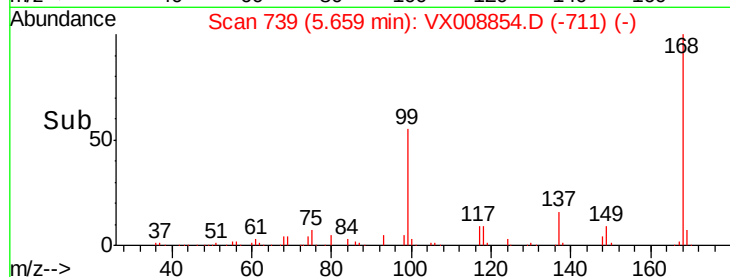
121 0.0 24.3 36.5#



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: 4.700 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008854.D

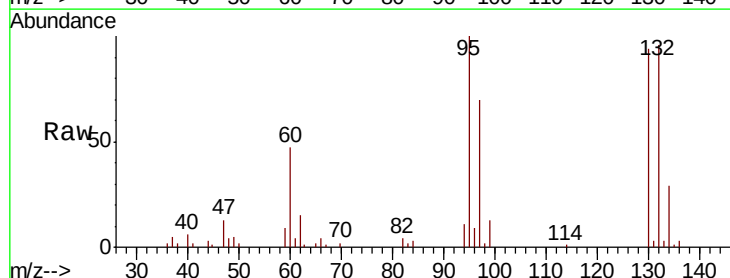
Acq: 11 Apr 2019 16:07

Tgt Ion:130 Resp: 11089

Ion Ratio Lower Upper

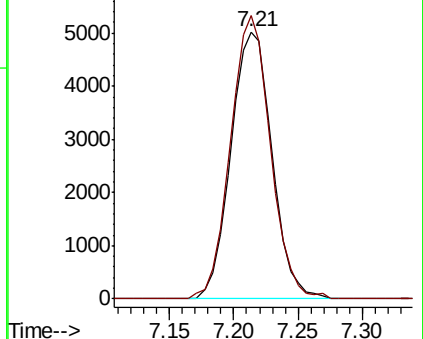
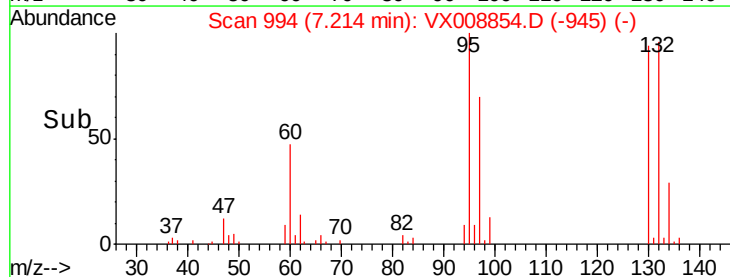
130 100

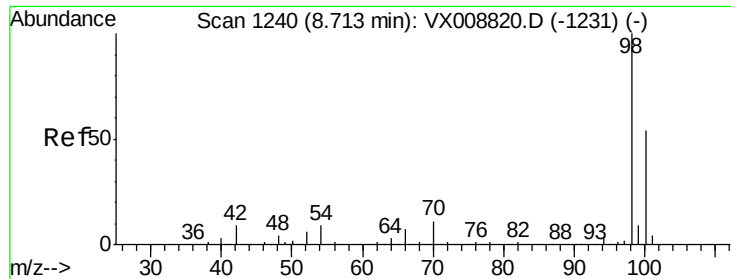
95 106.0 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

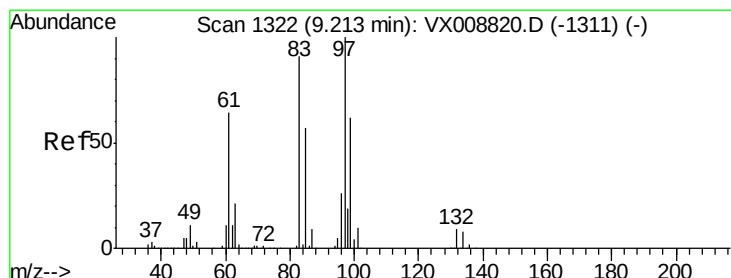
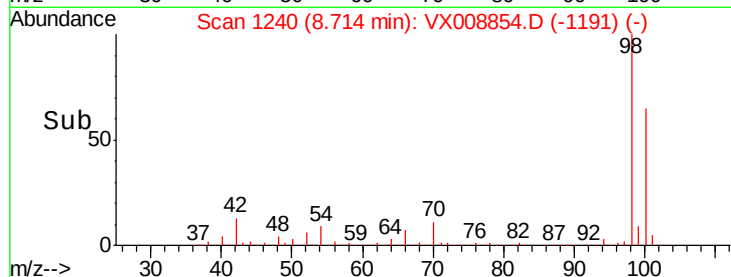
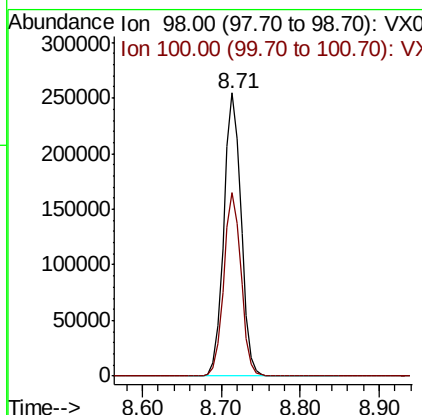
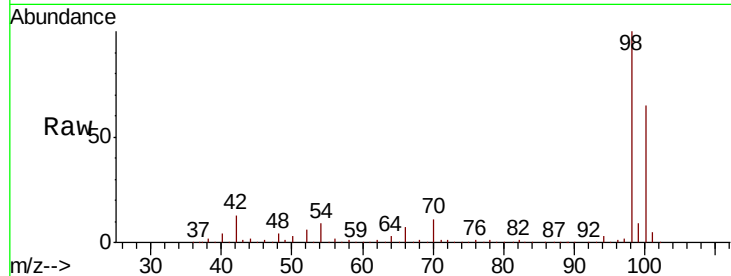




#50
Toluene-d8
Concen: 48.888 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

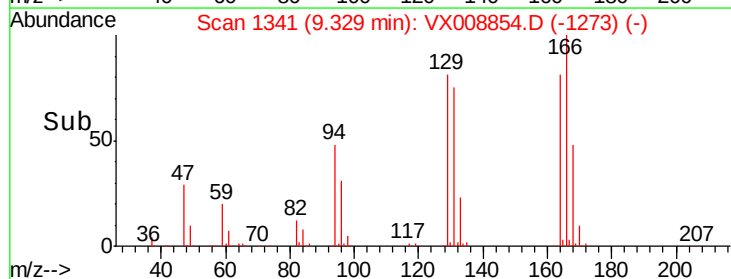
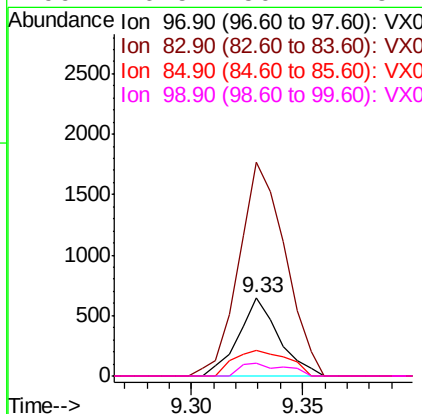
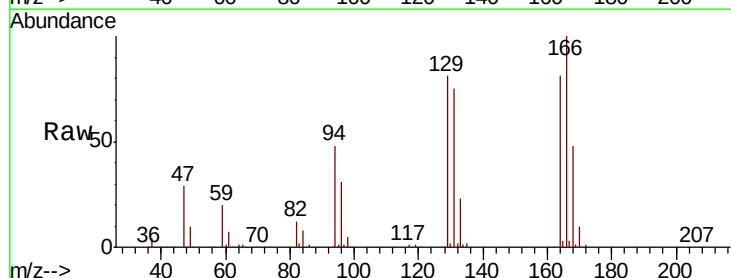
Instrument :
MSVOA_X
ClientSampleId :
M-19-190409DL

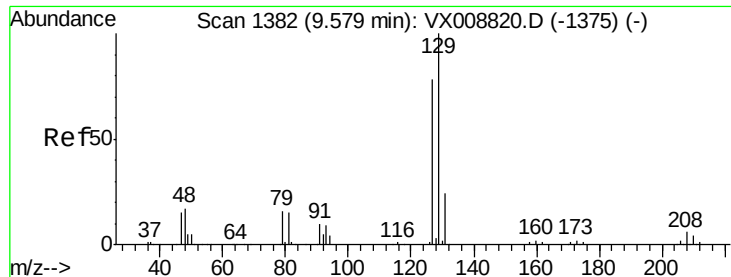
Tgt Ion: 98 Resp: 387190
Ion Ratio Lower Upper
98 100
100 64.7 51.4 77.0



#55
1,1,2-Trichloroethane
Concen: 0.341 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. 0.12 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

Tgt Ion: 97 Resp: 817
Ion Ratio Lower Upper
97 100
83 271.8 73.2 109.8#
85 31.8 46.6 69.8#
99 16.5 50.1 75.1#





#60

Dibromochloromethane

Concen: 40.591 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

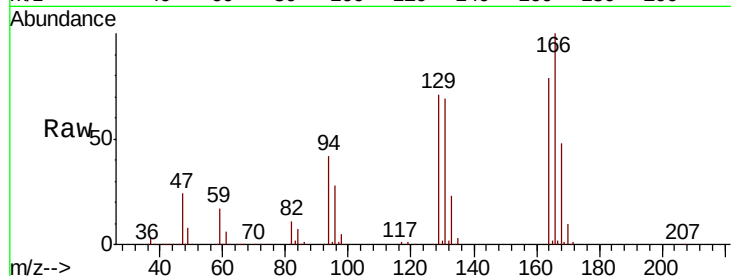
M-19-190409DL

Tgt Ion:129 Resp: 91702

Ion Ratio Lower Upper

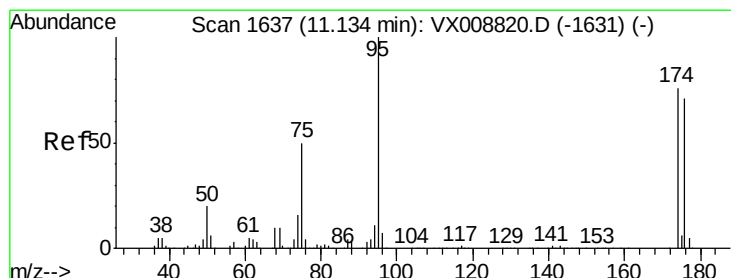
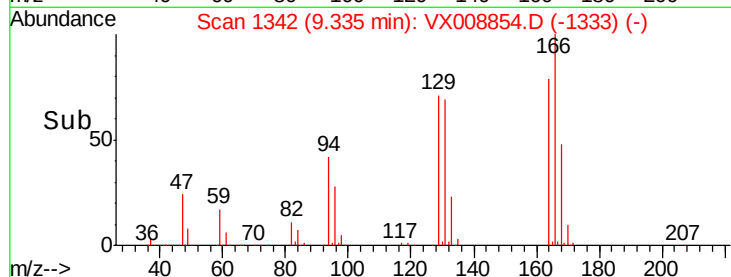
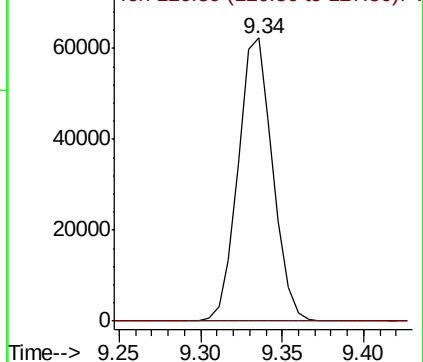
129 100

127 0.1 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.348 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

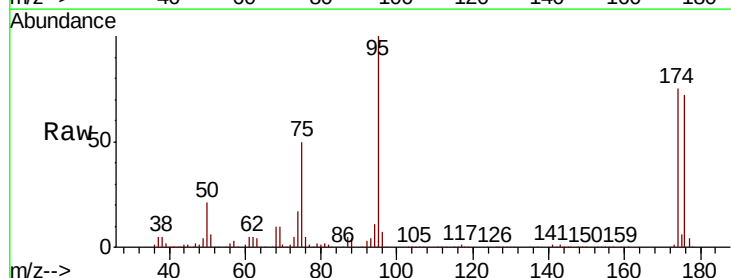
Tgt Ion: 95 Resp: 130170

Ion Ratio Lower Upper

95 100

174 78.5 0.0 151.8

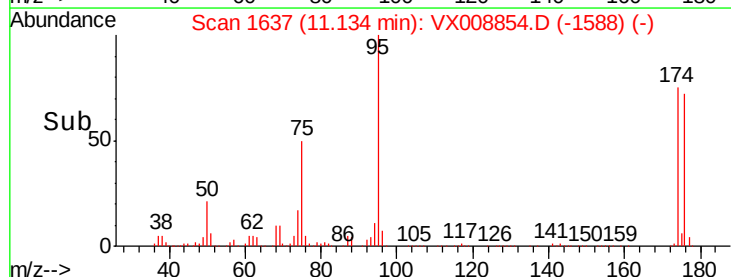
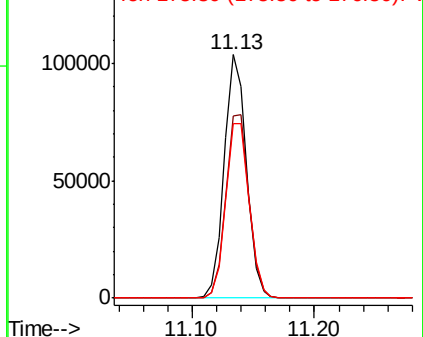
176 76.0 0.0 145.8

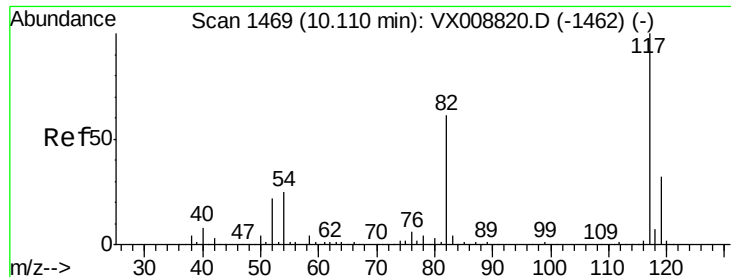


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

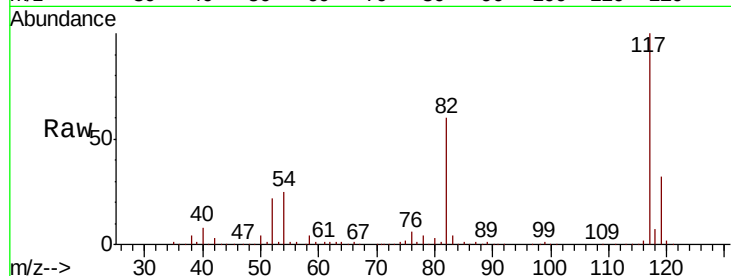




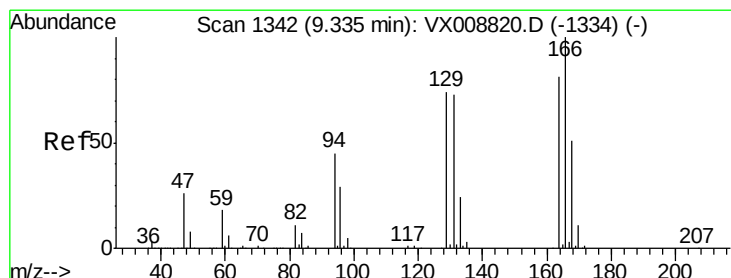
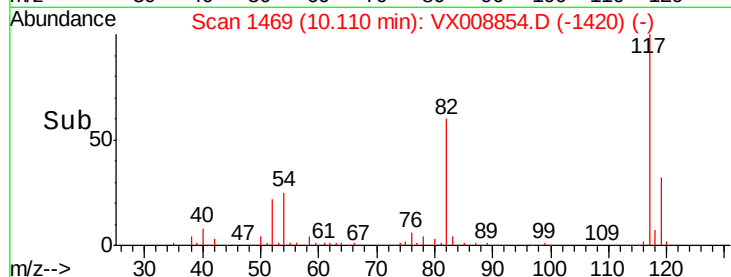
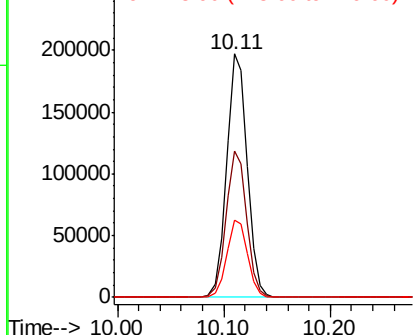
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

Instrument :
MSVOA_X
ClientSampled :
M-19-190409DL

Tgt Ion:117 Resp: 267533
Ion Ratio Lower Upper
117 100
82 60.0 49.6 74.4
119 31.9 25.0 37.4

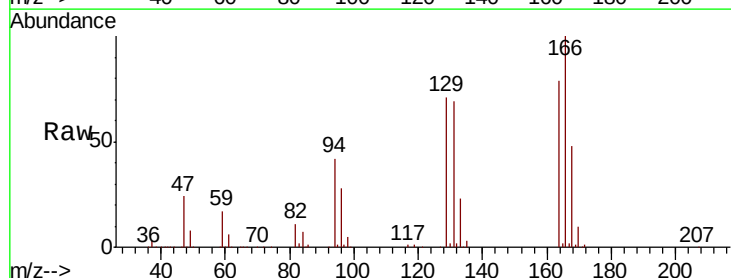


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

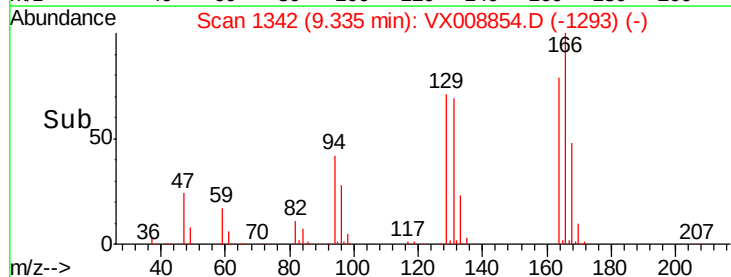
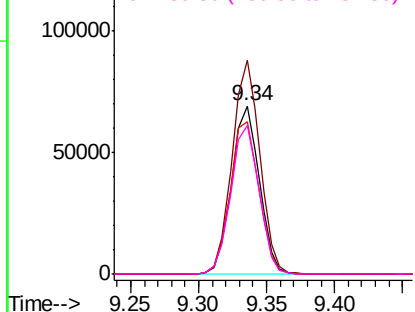


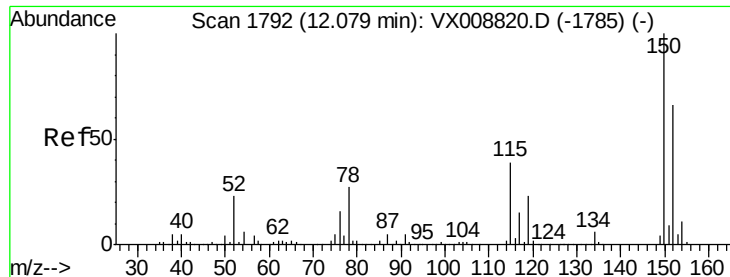
#64
Tetrachloroethene
Concen: 49.583 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008854.D
Acq: 11 Apr 2019 16:07

Tgt Ion:164 Resp: 98281
Ion Ratio Lower Upper
164 100
166 127.3 101.0 151.6
129 90.4 75.8 113.8
131 88.3 71.8 107.8



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409DL

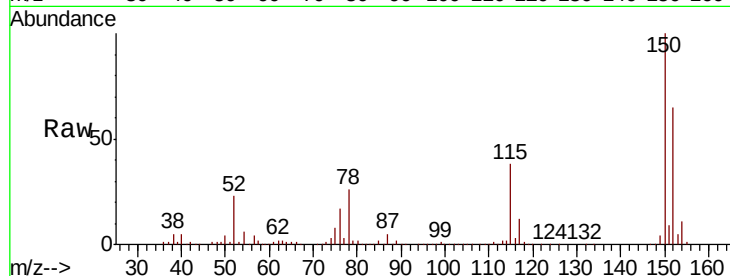
Tgt Ion:152 Resp: 113147

Ion Ratio Lower Upper

152 100

115 59.3 43.5 130.5

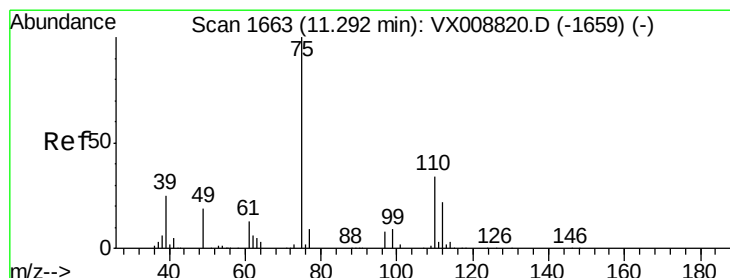
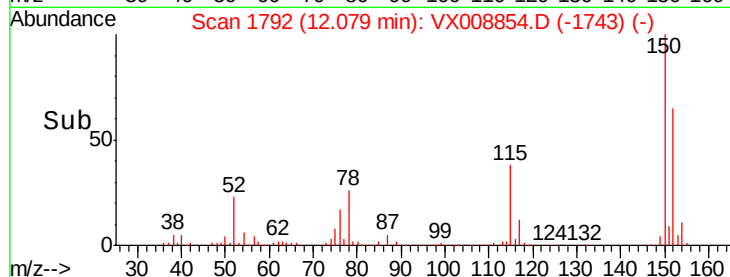
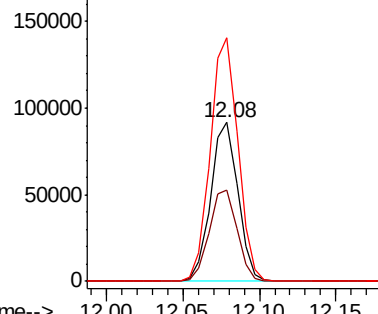
150 155.7 0.0 348.8



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: 21.146 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008854.D

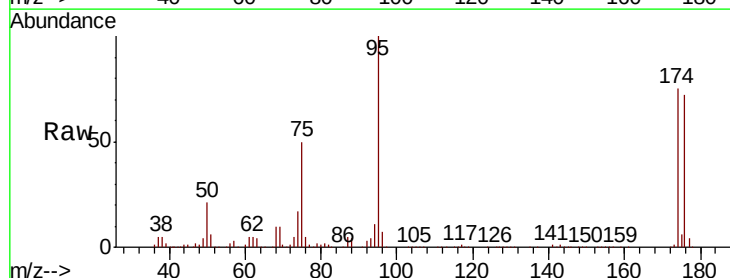
Acq: 11 Apr 2019 16:07

Tgt Ion: 75 Resp: 65726

Ion Ratio Lower Upper

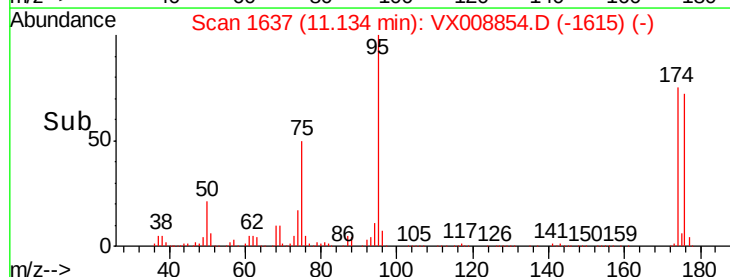
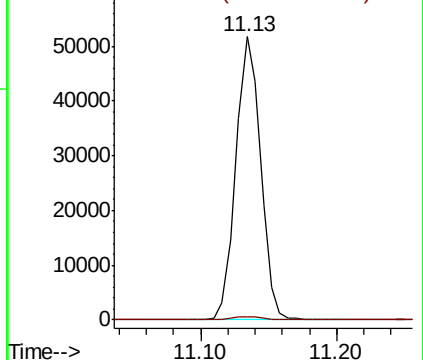
75 100

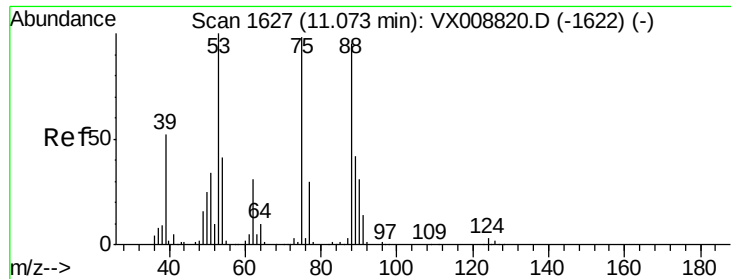
77 1.4 22.3 66.8#



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: 58.289 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008854.D

Acq: 11 Apr 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

M-19-190409DL

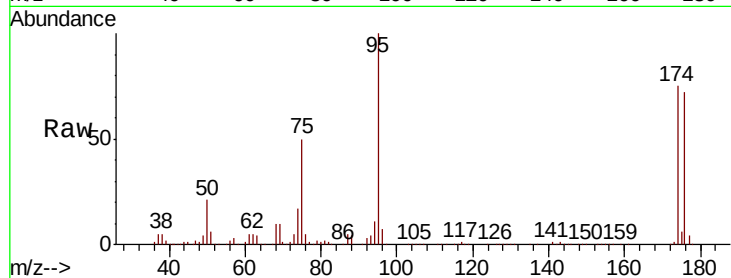
Tgt Ion: 75 Resp: 65726

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



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

