

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072318\
 Data File : VX003635.D
 Acq On : 24 Jul 2018 06:16
 Operator : JC/SP
 Sample : J4073-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 24 09:12:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	251095	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	360161	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	341212	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190003	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	143047	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
35) Dibromofluoromethane	5.51	113	137724	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
50) Toluene-d8	8.72	98	505547	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.14	95	171494	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	

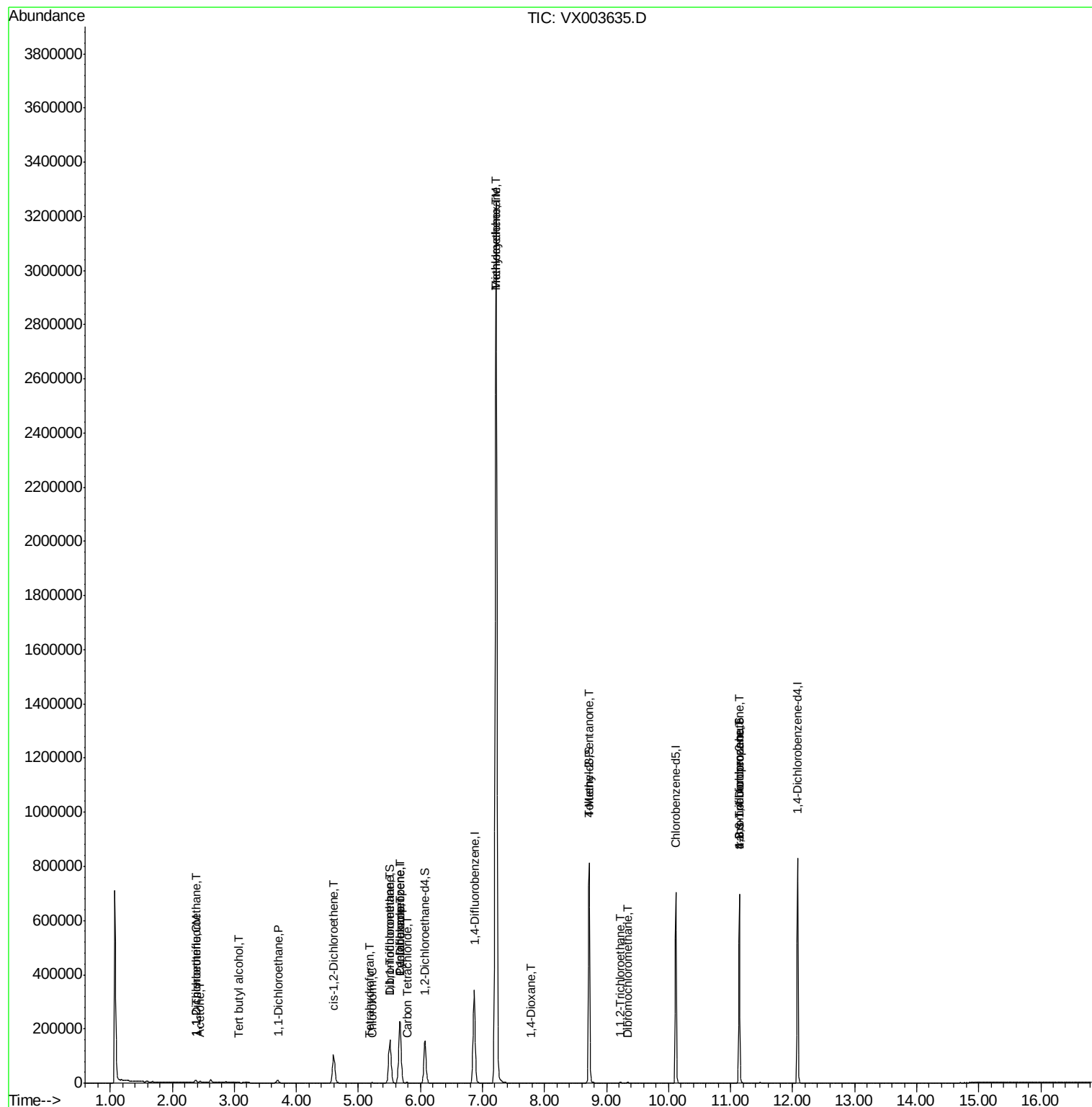
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	127	Below Cal	#	43
3) Chloromethane	1.32	50	848	Below Cal		89
5) Bromomethane	1.67	94	830	Below Cal		91
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1095	0.39	ug/l	97
11) Tert butyl alcohol	3.08	59	450	0.77	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	2090	0.81	ug/l	96
16) Acetone	2.45	43	4963	4.42	ug/l	97
20) Methylene Chloride	2.86	84	1396	Below Cal	#	75
24) 1,1-Dichloroethane	3.70	63	10753	2.15	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	69171	21.77	ug/l	87
29) Tetrahydrofuran	5.17	42	525	0.42	ug/l #	72
30) Chloroform	5.22	83	2179	0.45	ug/l	85
31) Cyclohexane	5.67	56	3752	0.84	ug/l #	1
32) 1,1,1-Trichloroethane	5.50	97	1845	0.44	ug/l #	46
36) 1,1-Dichloropropene	5.67	75	14237	3.66	ug/l #	51
38) Carbon Tetrachloride	5.79	117	1608	0.42	ug/l	94
39) Methylcyclohexane	7.21	83	14342	3.11	ug/l #	1
44) Trichloroethene	7.22	130	1379079	393.88	ug/l	96
49) 1,4-Dioxane	7.77	88	918	13.73	ug/l	92
51) 4-Methyl-2-Pentanone	8.72	43	1794	0.49	ug/l #	1
55) 1,1,2-Trichloroethane	9.22	97	1197	0.41	ug/l	94
60) Dibromochloromethane	9.34	129	623	0.21	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	78047	22.87	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	78047	64.23	ug/l #	7

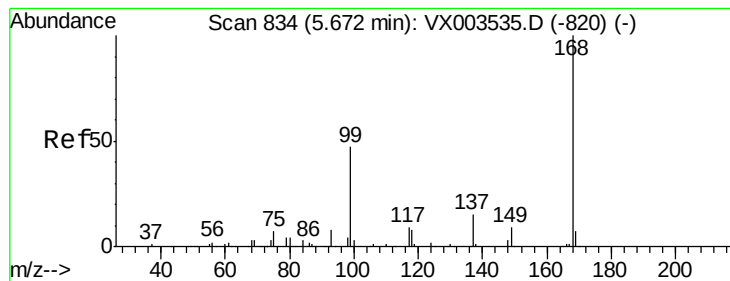
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 17:09:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

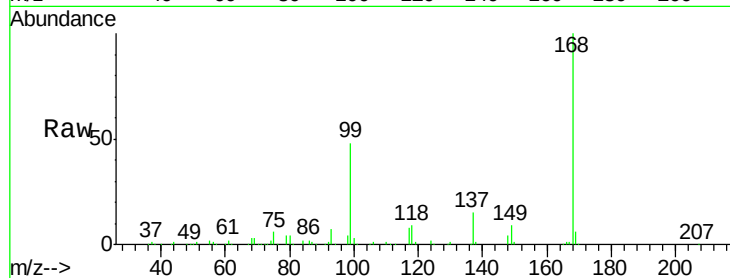
ClientSampleId :

Tot Ion:168 Resp: 251095

Ion Ratio Lower Upper

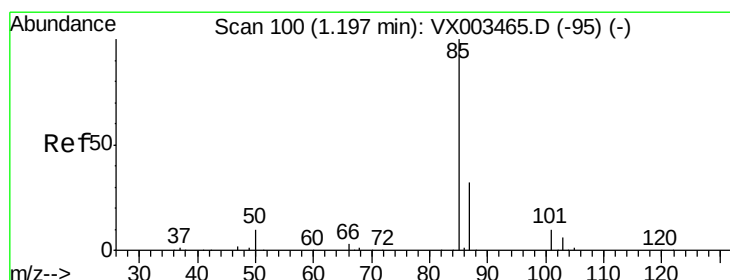
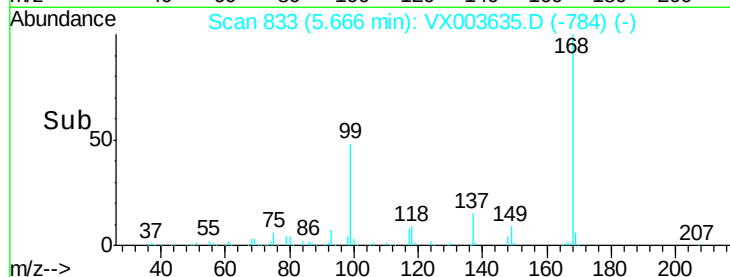
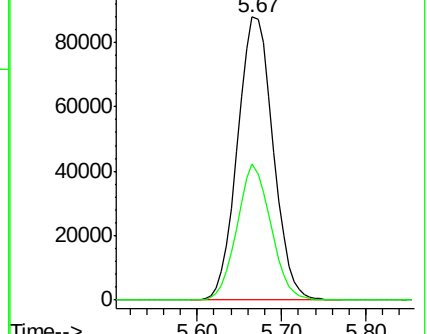
168 100

99 47.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003635.D

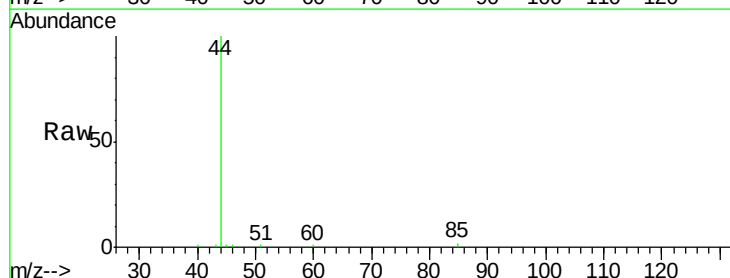
Acq: 24 Jul 2018 06:16

Tgt Ion: 85 Resp: 127

Ion Ratio Lower Upper

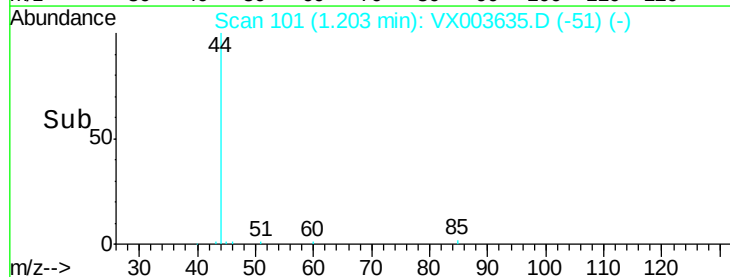
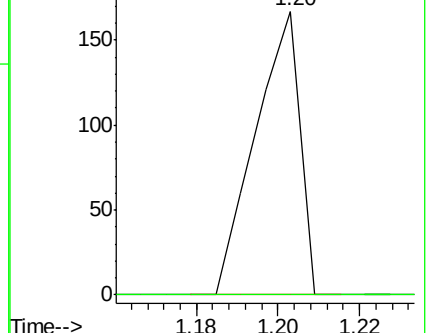
85 100

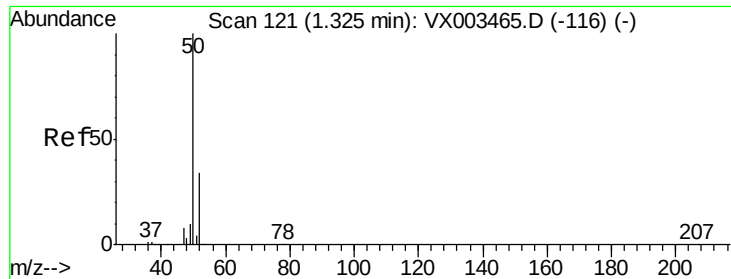
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

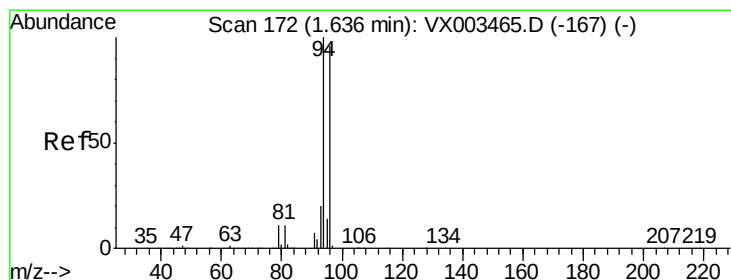
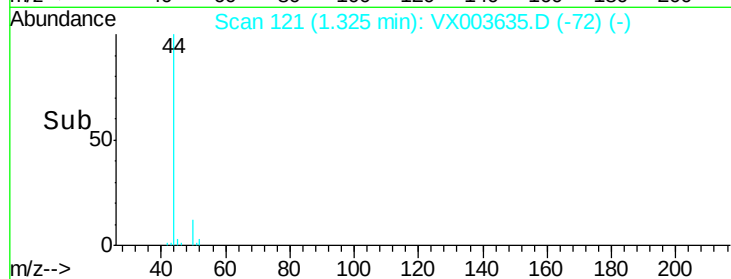
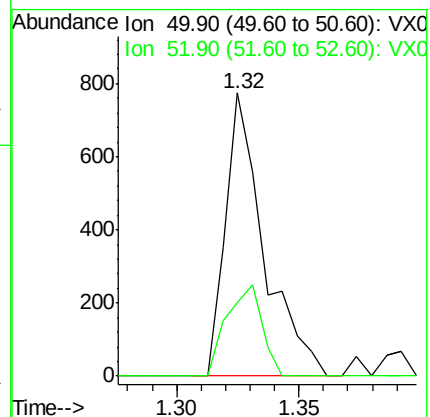
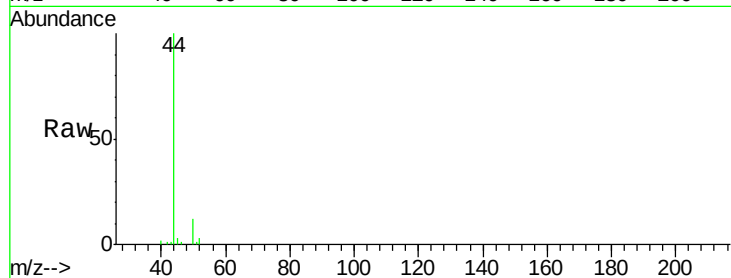
ClientSampleId :

Tot Ion: 50 Resp: 848

Ion Ratio Lower Upper

50 100

52 26.0 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003635.D

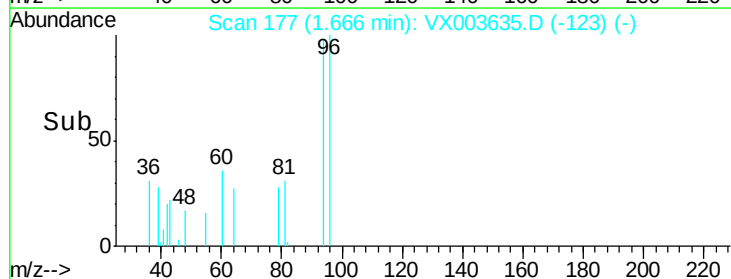
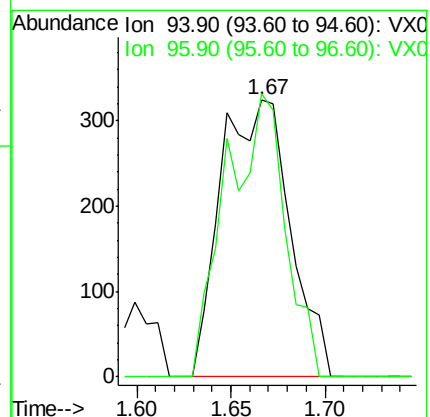
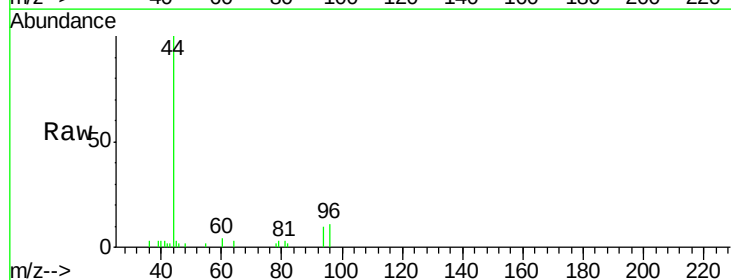
Acq: 24 Jul 2018 06:16

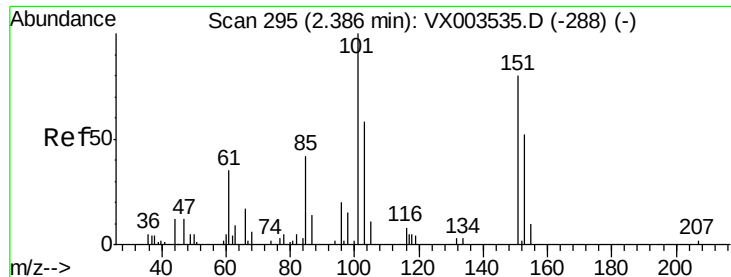
Tgt Ion: 94 Resp: 830

Ion Ratio Lower Upper

94 100

96 102.2 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.39 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

ClientSampleId :

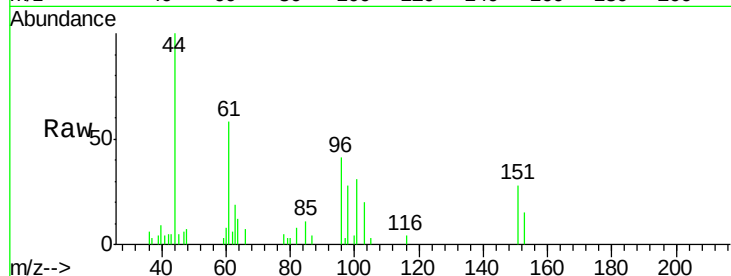
Tot Ion:101 Resp: 1095

Ion Ratio Lower Upper

101 100

85 40.2 36.0 54.0

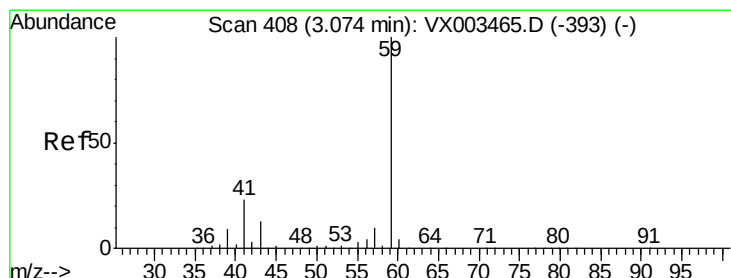
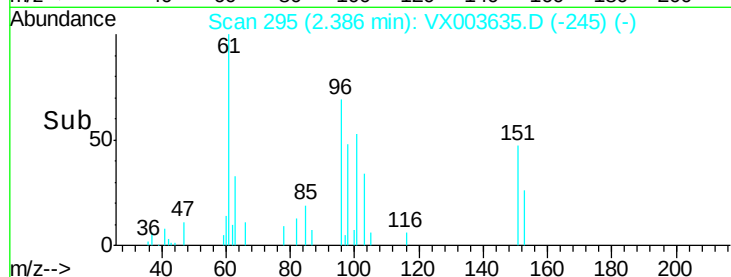
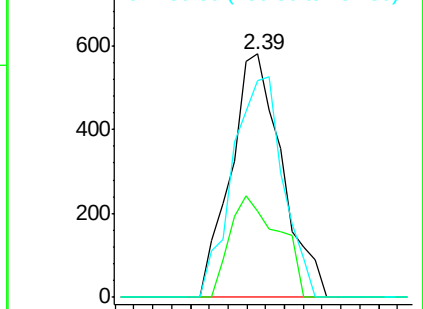
151 89.0 70.9 106.3



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



#11

Tert butyl alcohol

Concen: 0.77 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.01 min

Lab File: VX003635.D

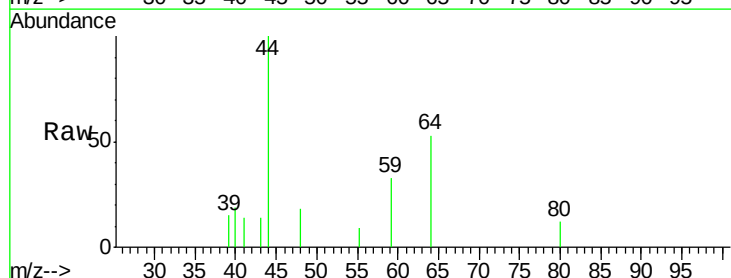
Acq: 24 Jul 2018 06:16

Tgt Ion: 59 Resp: 450

Ion Ratio Lower Upper

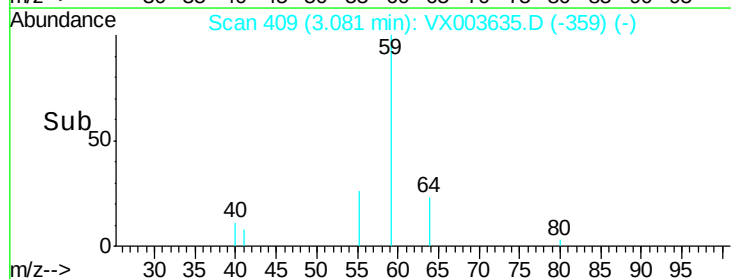
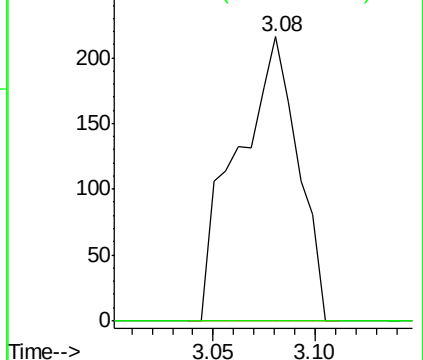
59 100

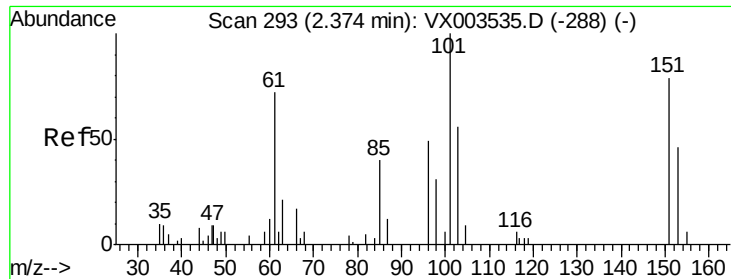
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.81 ug/l

RT: 2.37 min Scan# 293

Delta R.T. 0.00 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

ClientSampleId :

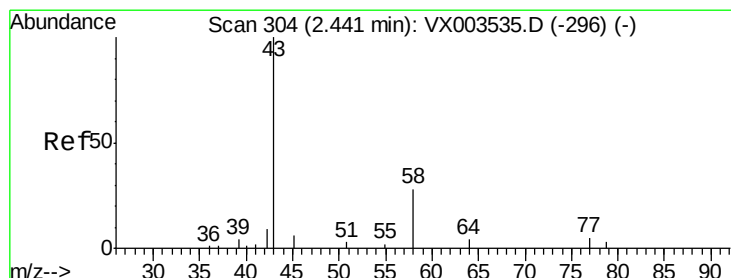
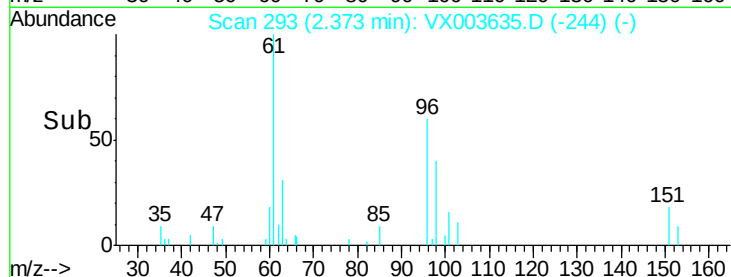
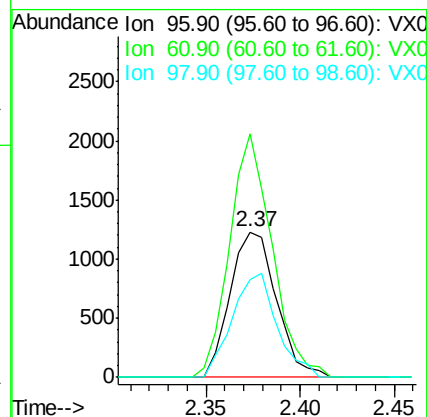
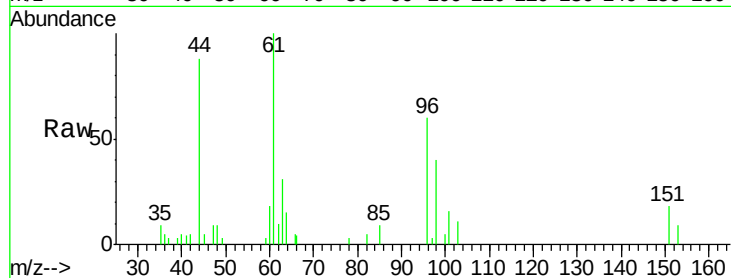
Tot Ion: 96 Resp: 2090

Ion Ratio Lower Upper

96 100

61 167.3 137.9 206.9

98 67.3 51.6 77.4



#16

Acetone

Concen: 4.42 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003635.D

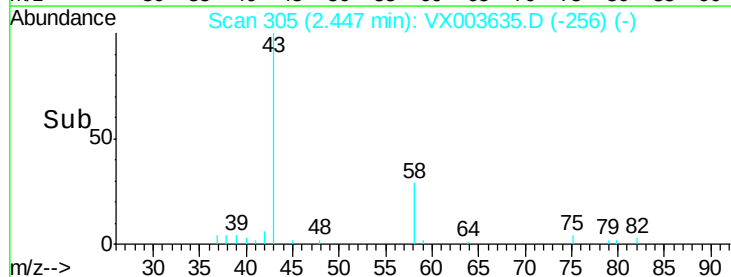
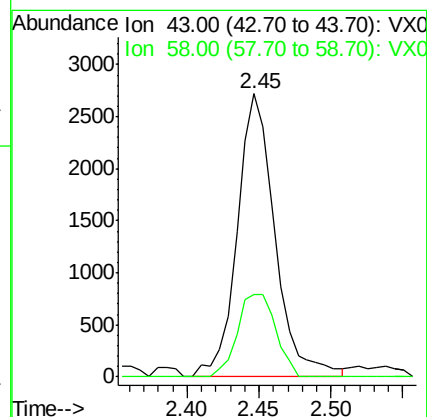
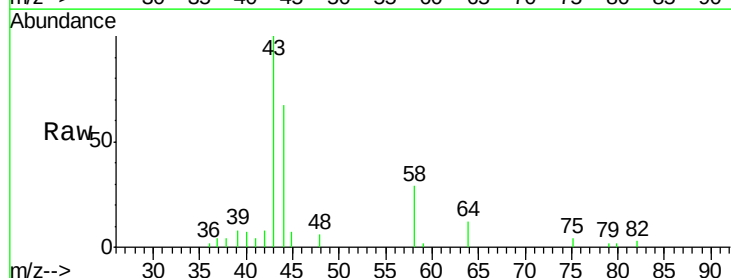
Acq: 24 Jul 2018 06:16

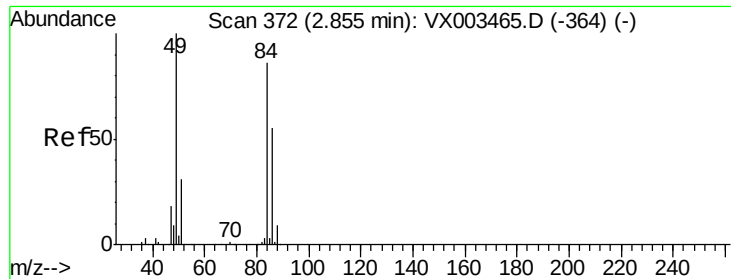
Tgt Ion: 43 Resp: 4963

Ion Ratio Lower Upper

43 100

58 29.3 22.1 33.1

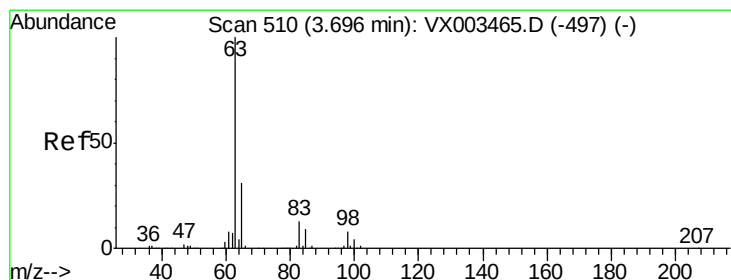
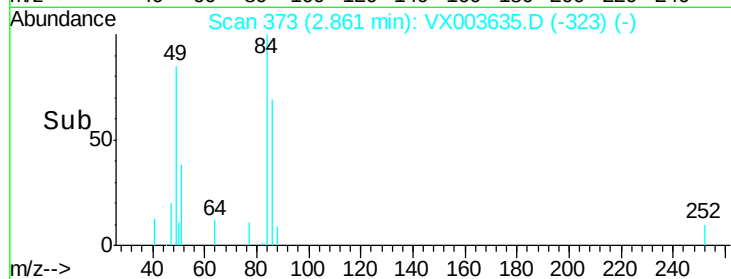
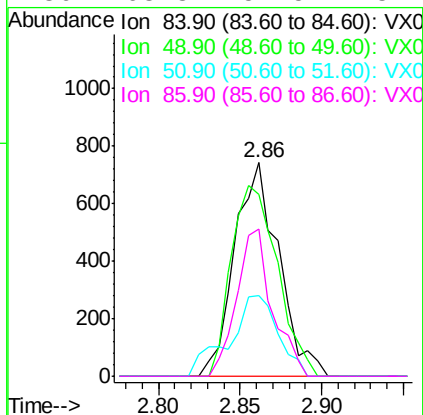
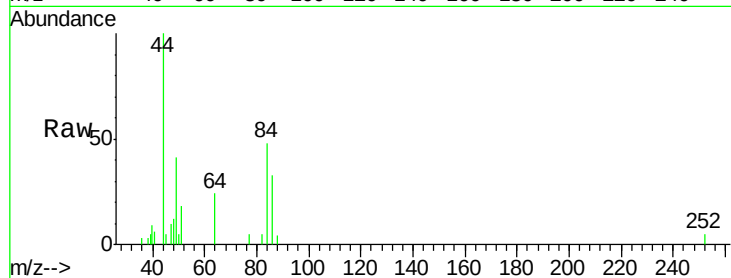




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

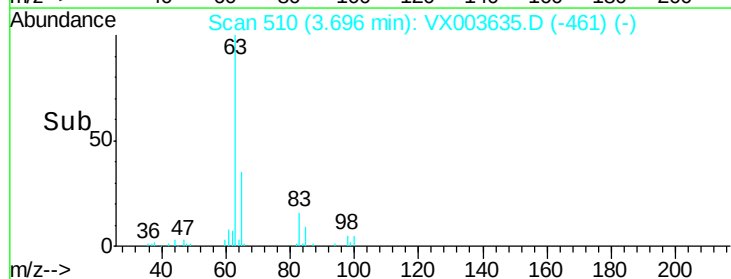
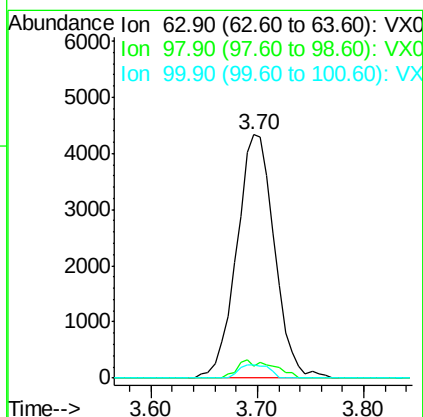
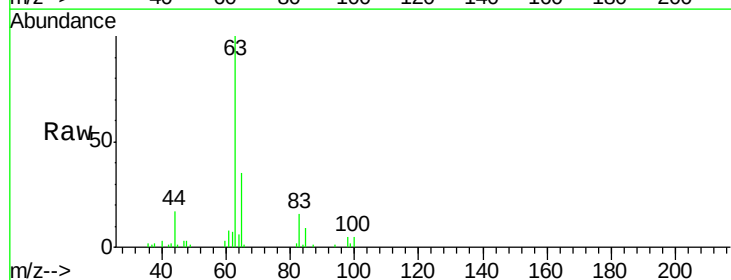
Instrument :
MSVOA_X
ClientSampleId :

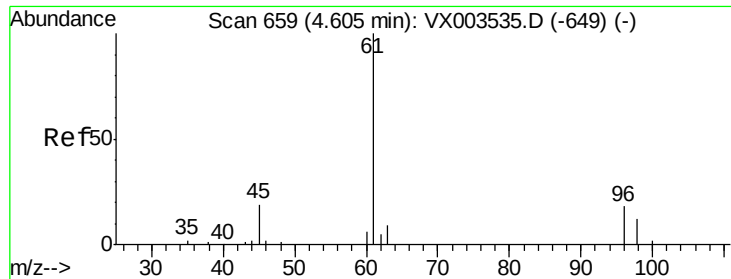
Tot Ion:	84	Resp:	1396
Ion	Ratio	Lower	Upper
84	100		
49	84.9	107.8	161.6#
51	37.6	32.8	49.2
86	68.8	52.5	78.7



#24
1,1-Dichloroethane
Concen: 2.15 ug/l
RT: 3.70 min Scan# 510
Delta R.T. 0.00 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

Tgt Ion:	63	Resp:	10753
Ion	Ratio	Lower	Upper
63	100		
98	4.8	3.4	10.2
100	5.4	2.0	6.0





#27

cis-1,2-Dichloroethene

Concen: 21.77 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

ClientSampled :

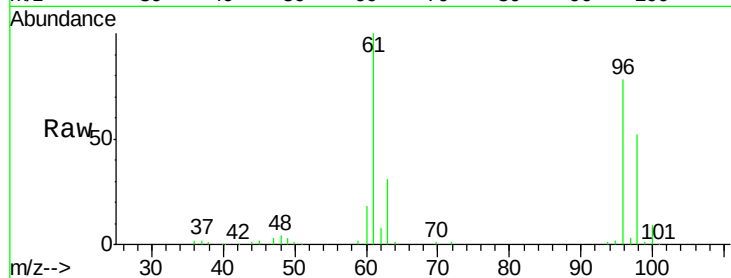
Tot Ion: 96 Resp: 69171

Ion Ratio Lower Upper

96 100

61 141.2 0.0 330.2

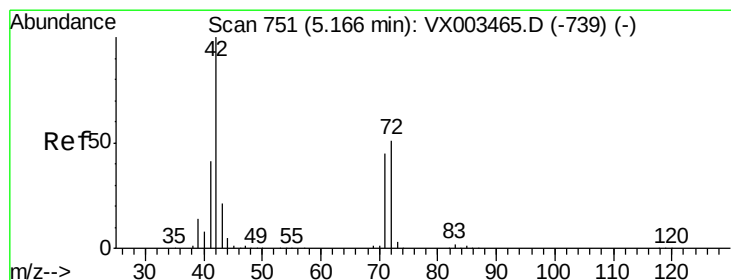
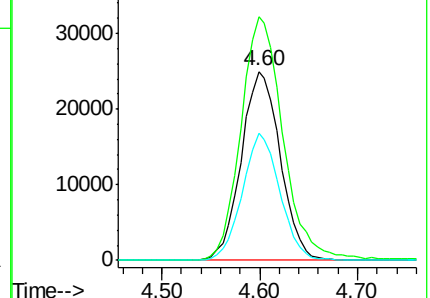
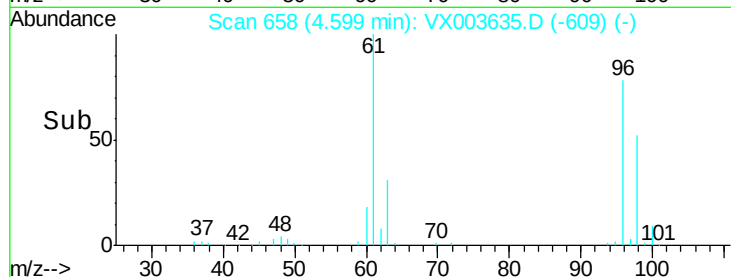
98 64.7 0.0 130.2



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



#29

Tetrahydrofuran

Concen: 0.42 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

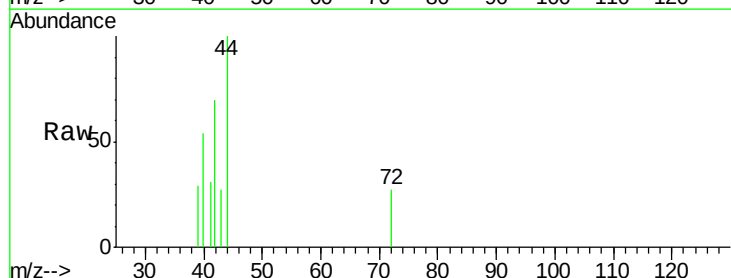
Tgt Ion: 42 Resp: 525

Ion Ratio Lower Upper

42 100

72 33.1 32.0 48.0

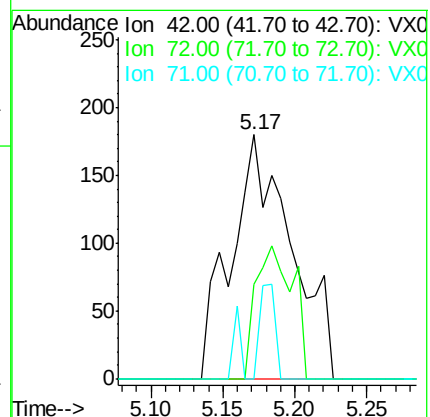
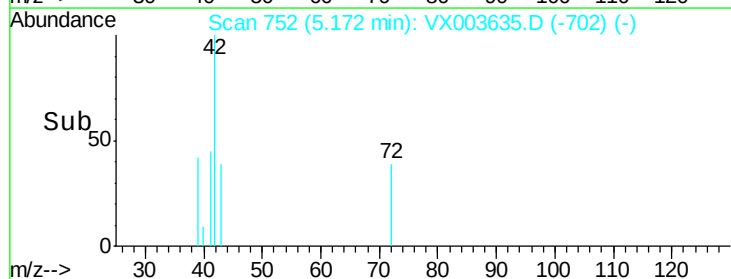
71 9.7 30.1 45.1#

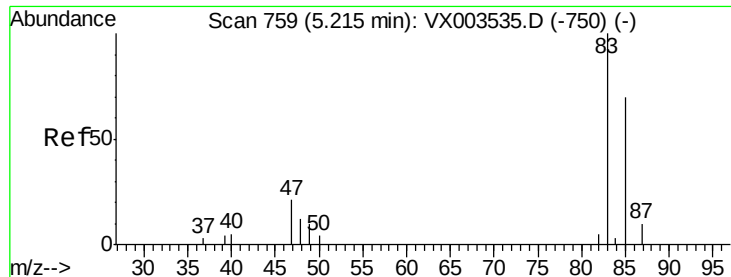


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

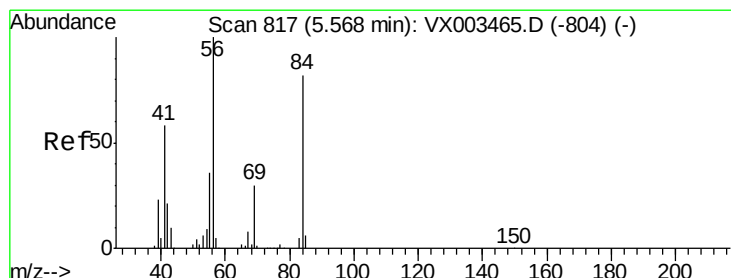
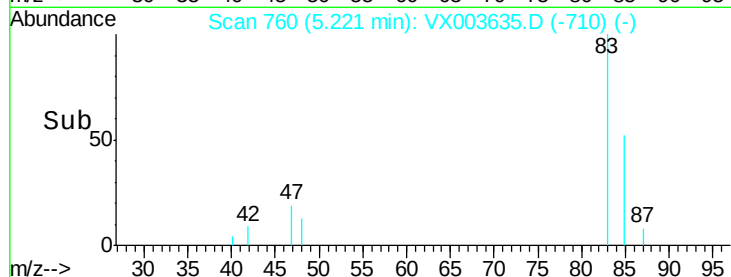
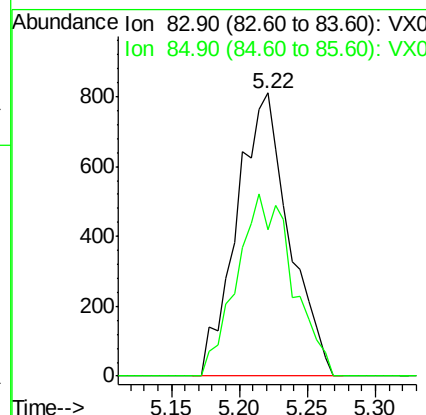
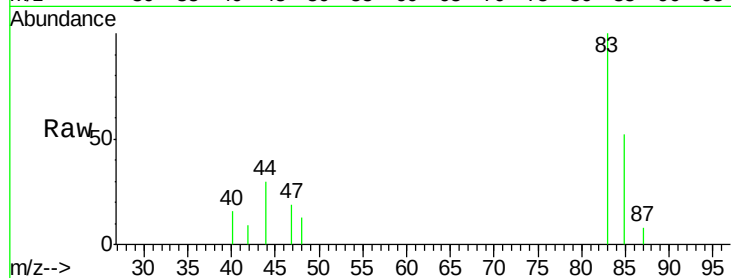




#30
Chloroform
Concen: 0.45 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

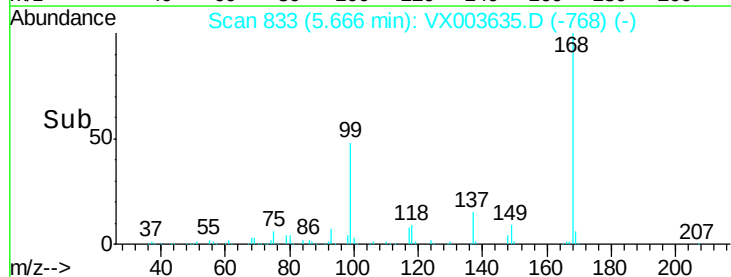
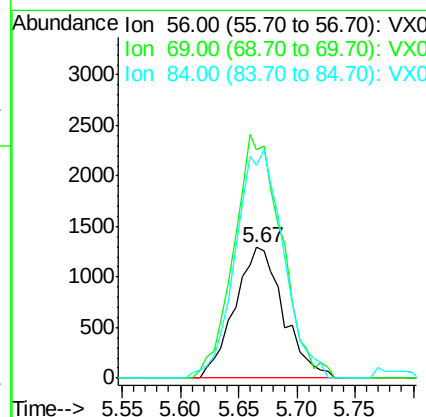
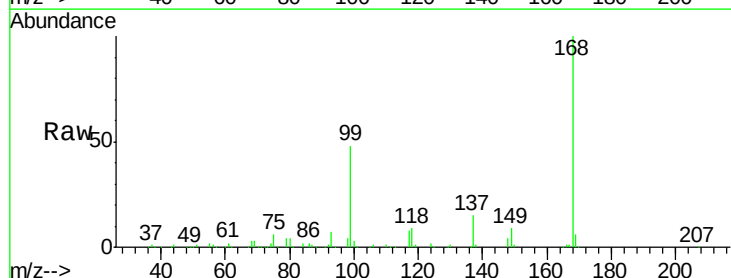
Instrument :
MSVOA_X
ClientSampleId :

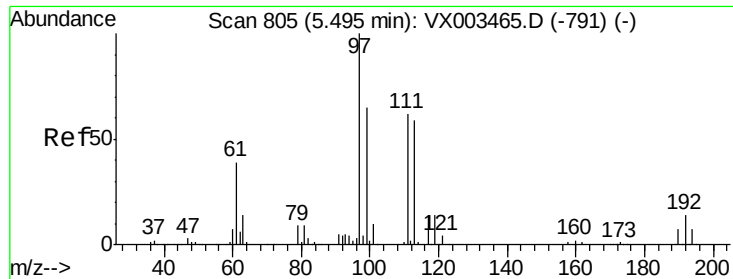
Tot Ion: 83 Resp: 2179
Ion Ratio Lower Upper
83 100
85 51.6 50.4 75.6



#31
Cyclohexane
Concen: 0.84 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.10 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

Tgt Ion: 56 Resp: 3752
Ion Ratio Lower Upper
56 100
69 174.5 23.7 35.5#
84 163.0 64.1 96.1#





#32

1,1,1-Trichloroethane

Concen: 0.44 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

ClientSampleId :

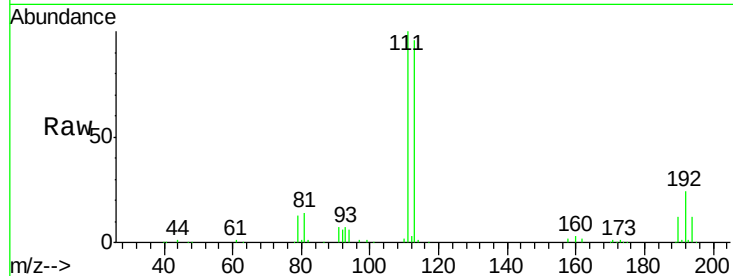
Tot Ion: 97 Resp: 1845

Ion Ratio Lower Upper

97 100

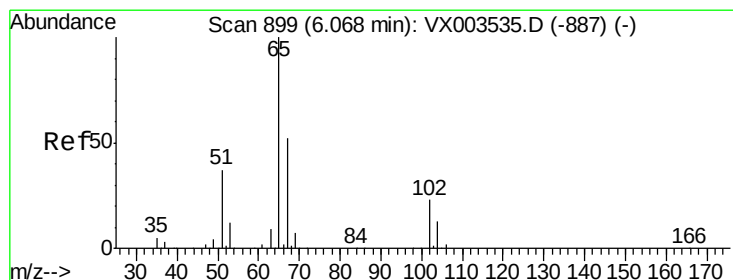
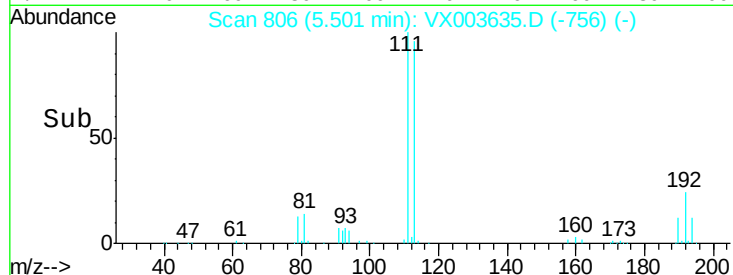
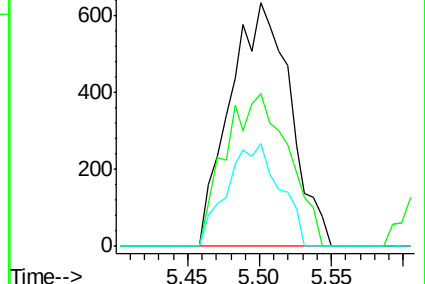
99 0.0 51.6 77.4#

61 36.9 36.4 54.6



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0

5.50



#33

1,2-Dichloroethane-d4

Concen: 48.13 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003635.D

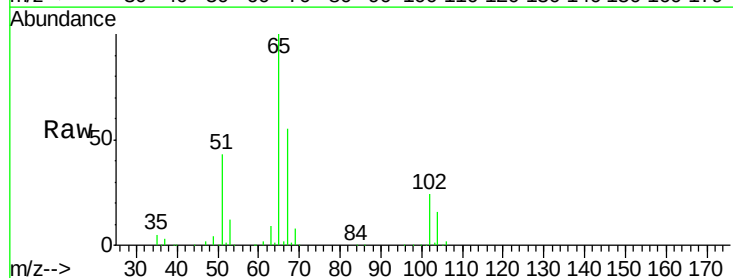
Acq: 24 Jul 2018 06:16

Tgt Ion: 65 Resp: 143047

Ion Ratio Lower Upper

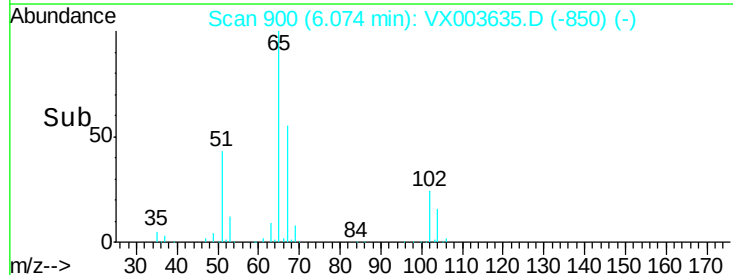
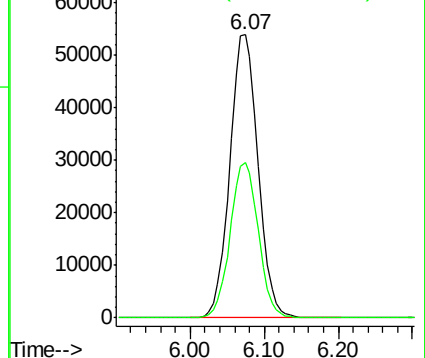
65 100

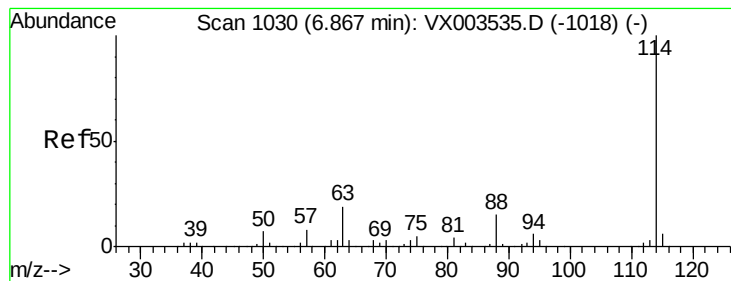
67 54.7 0.0 102.6



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

6.07





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

ClientSampleId :

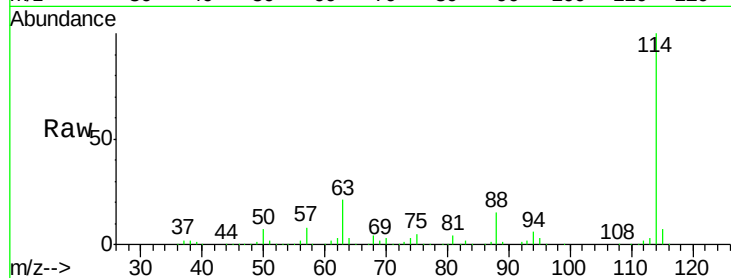
Tot Ion:114 Resp: 360161

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

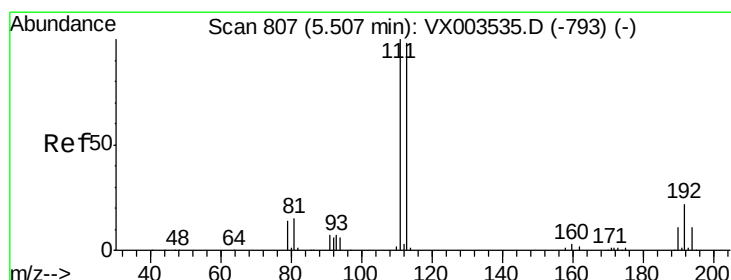
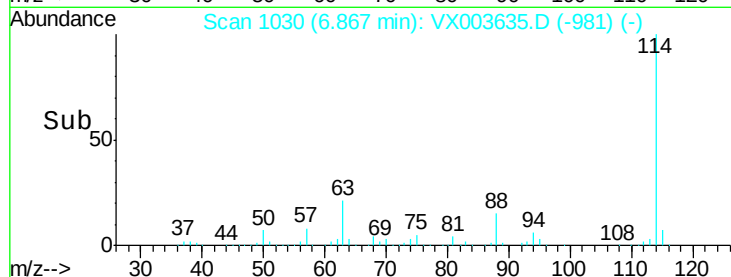
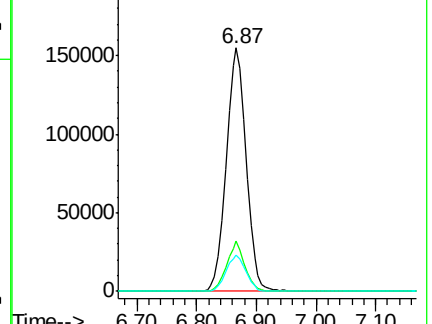
88 14.9 0.0 30.0



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: 50.20 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

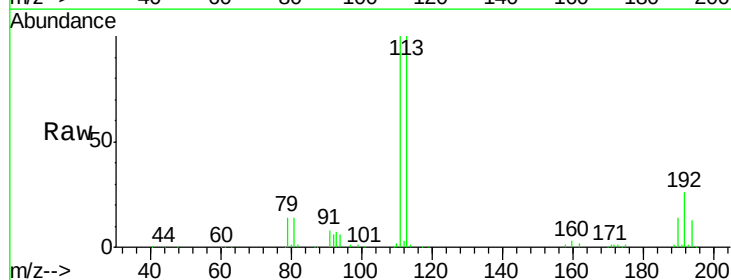
Tgt Ion:113 Resp: 137724

Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.0

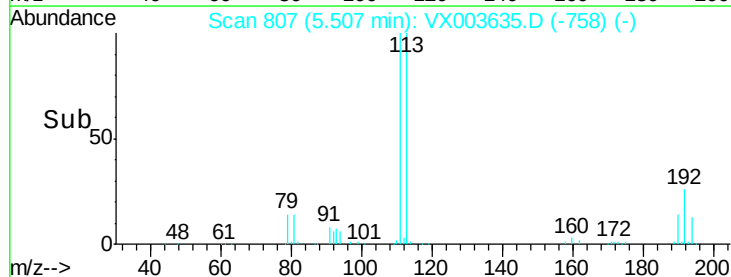
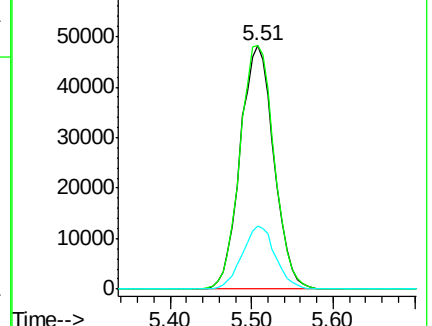
192 25.5 19.1 28.7

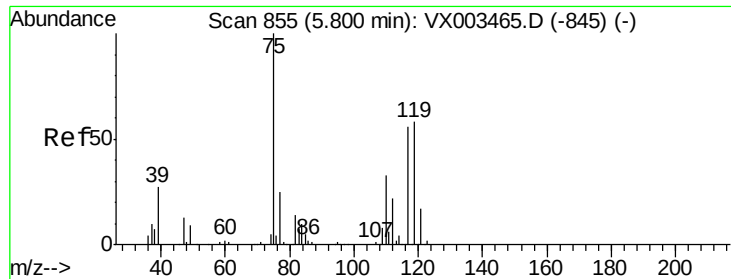


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

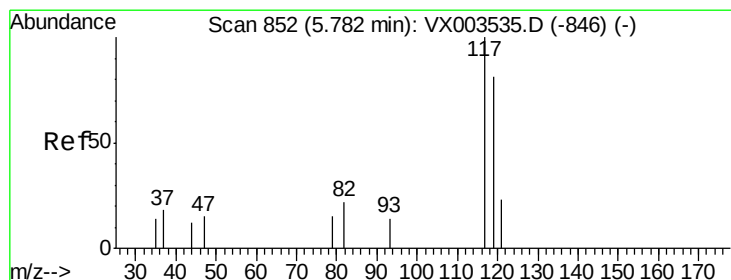
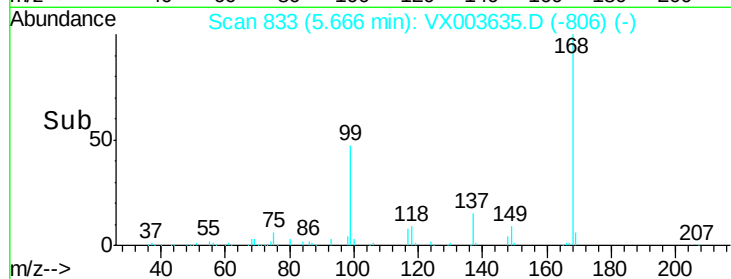
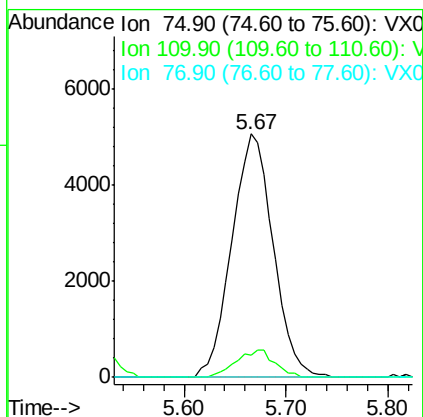
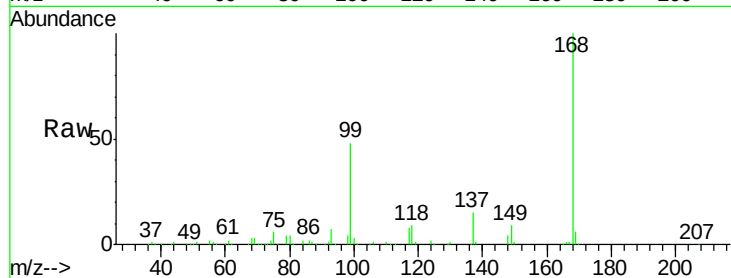




#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003635.D
 Acq: 24 Jul 2018 06:16

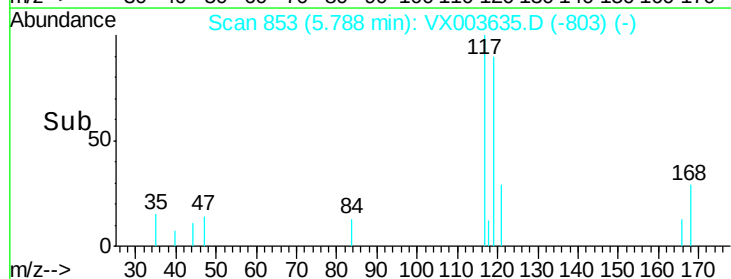
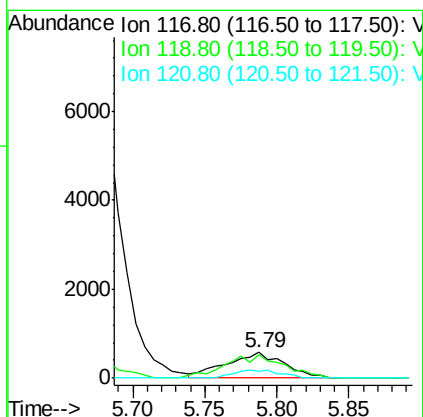
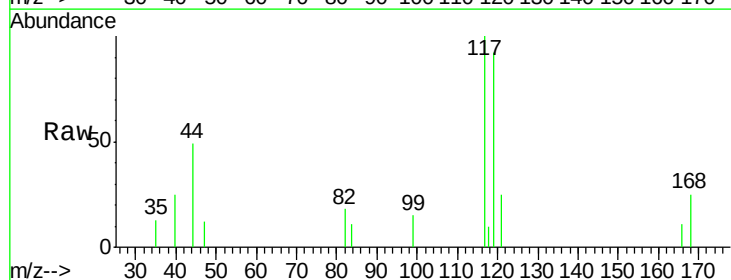
Instrument :
 MSVOA_X
 ClientSampleId :

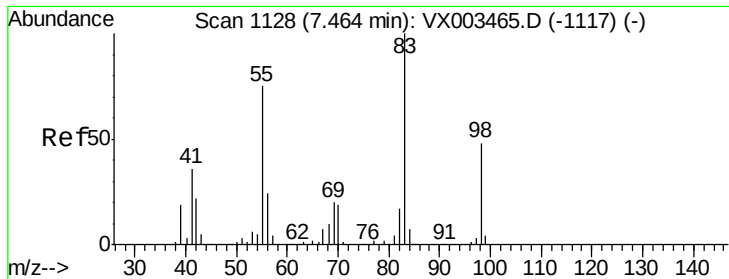
Tot Ion: 75 Resp: 14237
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 0.42 ug/l
 RT: 5.79 min Scan# 853
 Delta R.T. 0.01 min
 Lab File: VX003635.D
 Acq: 24 Jul 2018 06:16

Tgt Ion: 117 Resp: 1608
 Ion Ratio Lower Upper
 117 100
 119 92.0 77.4 116.0
 121 25.0 24.4 36.6

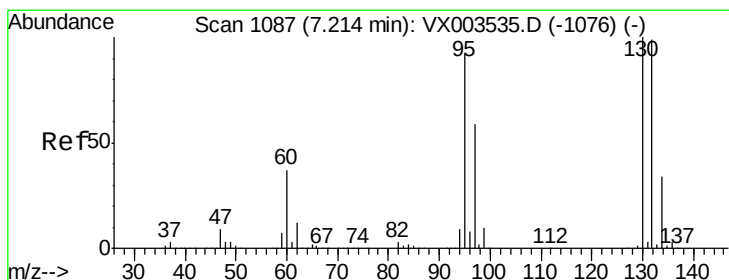
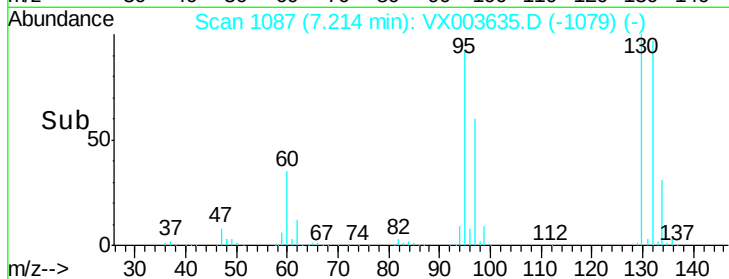
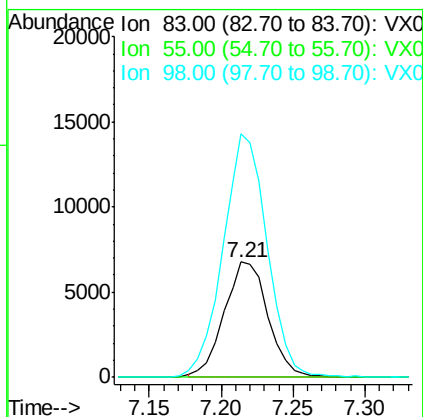
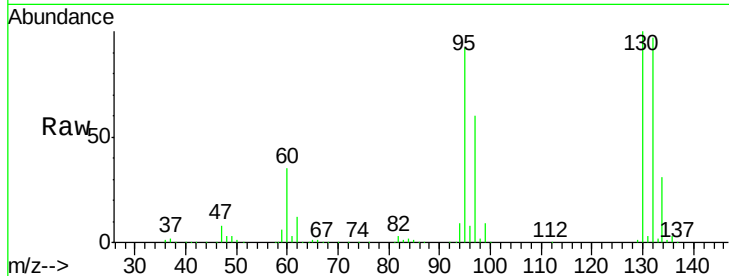




#39
Methylvlcyclohexane
Concen: 3.11 ug/l
RT: 7.21 min Scan# 1087
Delta R.T. -0.25 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

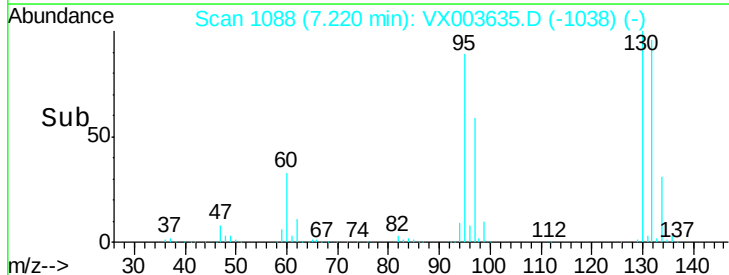
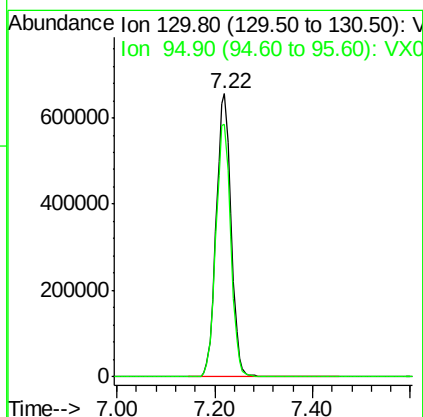
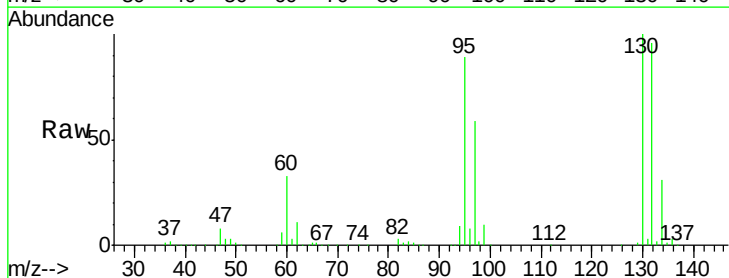
Instrument :
MSVOA_X
ClientSampleId :

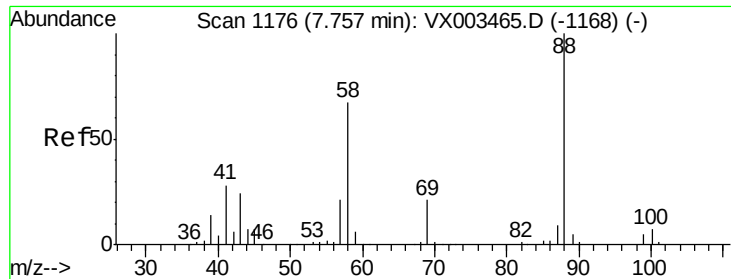
Tot Ion: 83 Resp: 14342
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 210.1 37.4 56.0#



#44
Trichloroethene
Concen: 393.88 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

Tgt Ion:130 Resp: 1379079
Ion Ratio Lower Upper
130 100
95 89.0 0.0 185.4

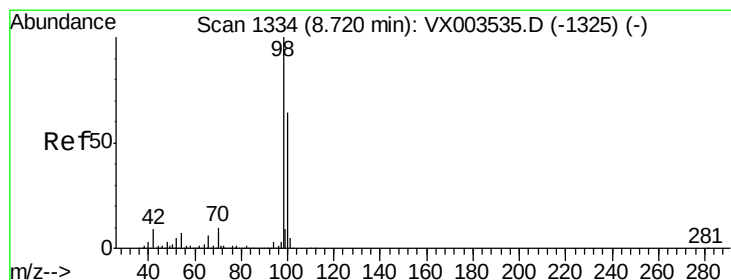
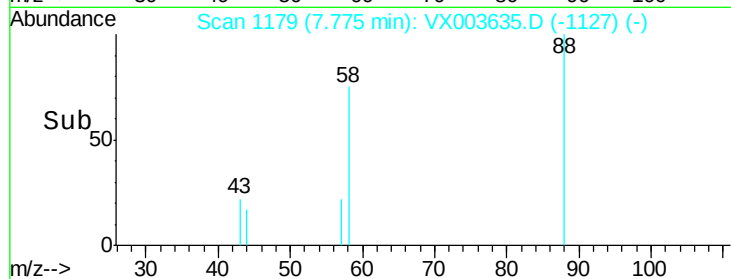
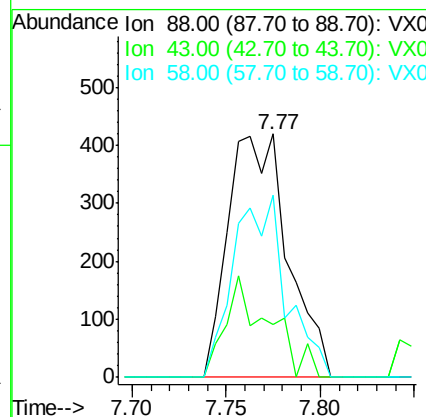
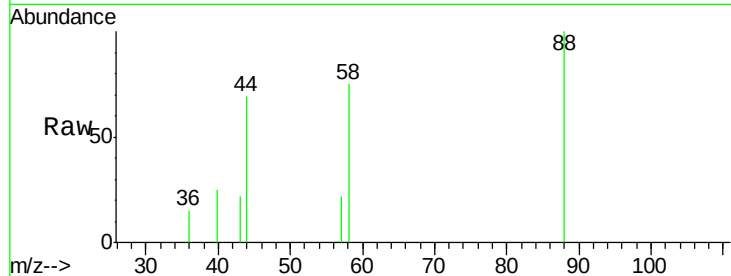




#49
 1,4-Dioxane
 Concen: 13.73 ug/l
 RT: 7.77 min Scan# 1179
 Delta R.T. 0.02 min
 Lab File: VX003635.D
 Acq: 24 Jul 2018 06:16

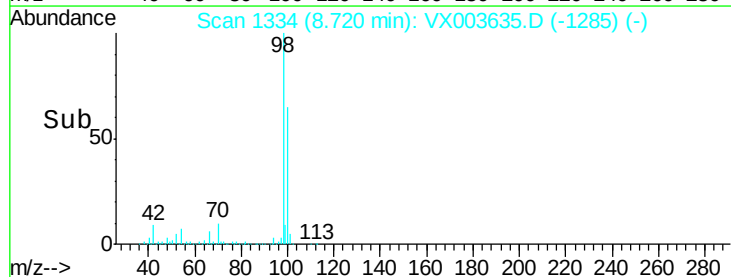
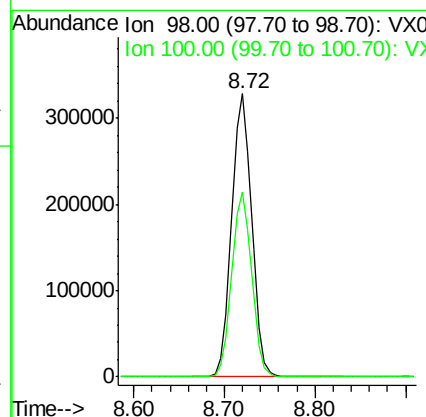
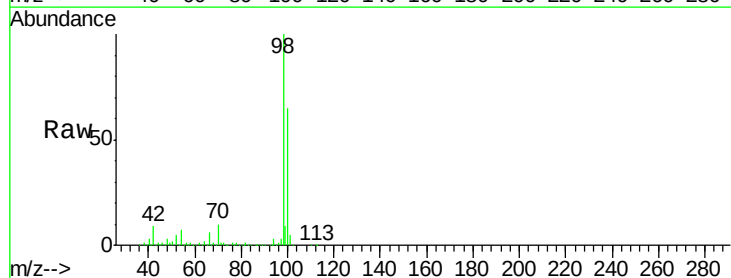
Instrument :
 MSVOA_X
 ClientSampled :

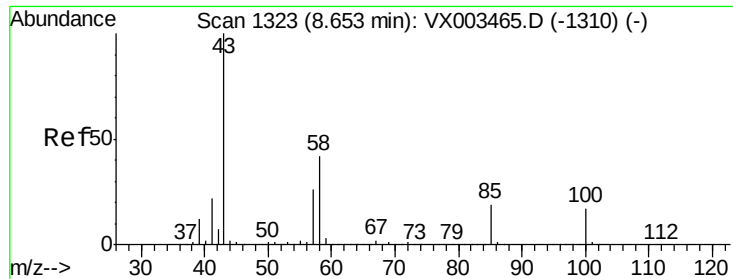
Tot Ion: 88 Resp: 918
 Ion Ratio Lower Upper
 88 100
 43 30.5 29.8 44.6
 58 65.9 57.1 85.7



#50
 Toluene-d8
 Concen: 49.03 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003635.D
 Acq: 24 Jul 2018 06:16

Tgt Ion: 98 Resp: 505547
 Ion Ratio Lower Upper
 98 100
 100 64.8 50.9 76.3

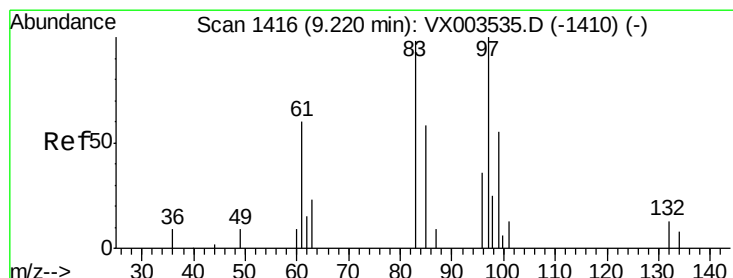
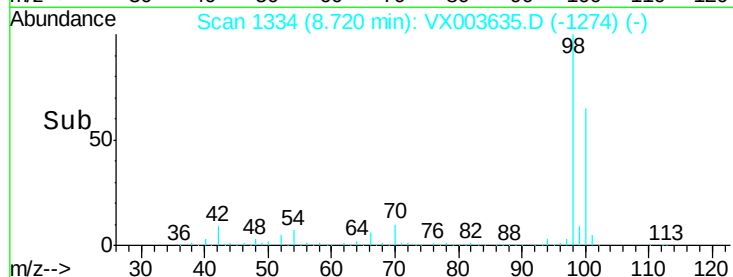
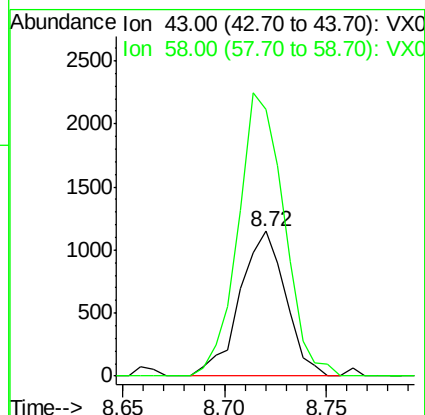
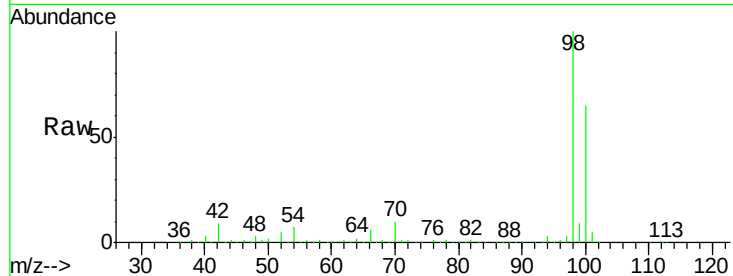




#51
 4-Methyl-2-Pentanone
 Concen: 0.49 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.07 min
 Lab File: VX003635.D
 Acq: 24 Jul 2018 06:16

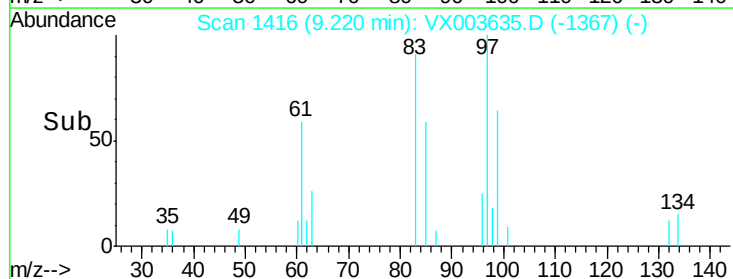
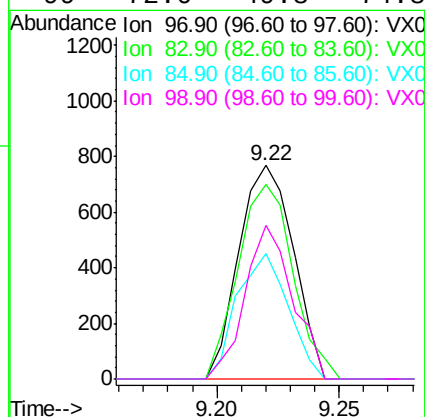
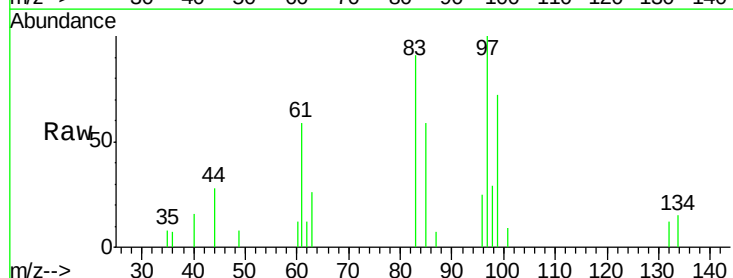
Instrument :
 MSVOA_X
 ClientSampled :

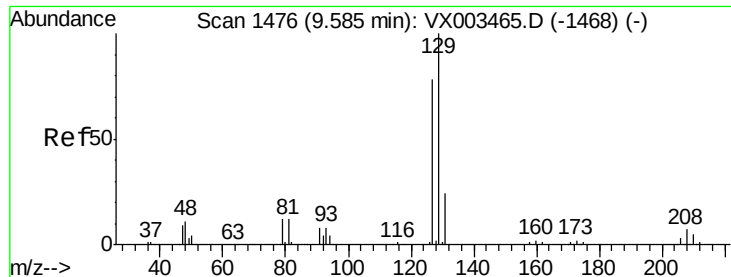
Tot Ion: 43 Resp: 1794
 Ion Ratio Lower Upper
 43 100
 58 195.5 28.6 42.8#



#55
 1,1,2-Trichloroethane
 Concen: 0.41 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VX003635.D
 Acq: 24 Jul 2018 06:16

Tgt Ion: 97 Resp: 1197
 Ion Ratio Lower Upper
 97 100
 83 90.9 70.2 105.2
 85 58.6 44.9 67.3
 99 72.0 49.8 74.8





#60

Dibromochloromethane

Concen: 0.21 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

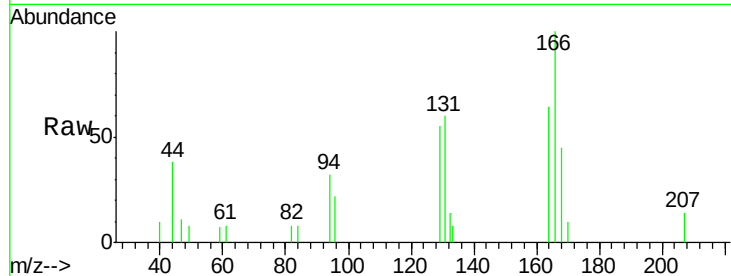
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 623

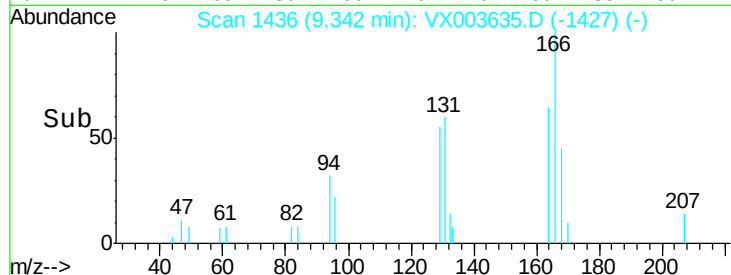
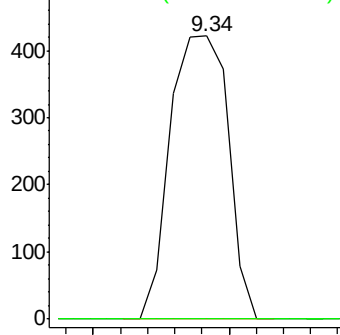
Ion Ratio Lower Upper

129 100

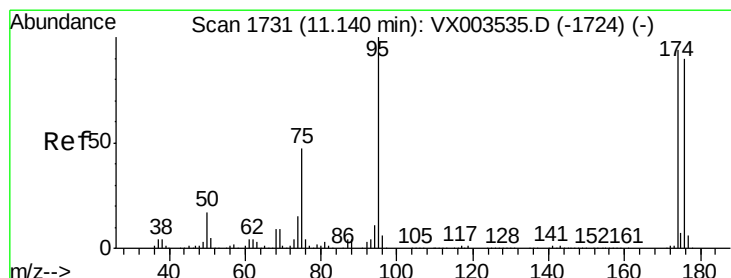
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 45.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

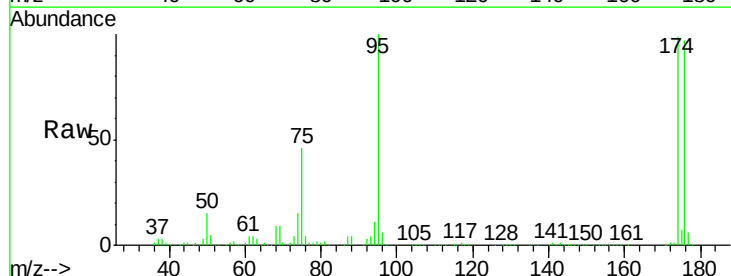
Tgt Ion: 95 Resp: 171494

Ion Ratio Lower Upper

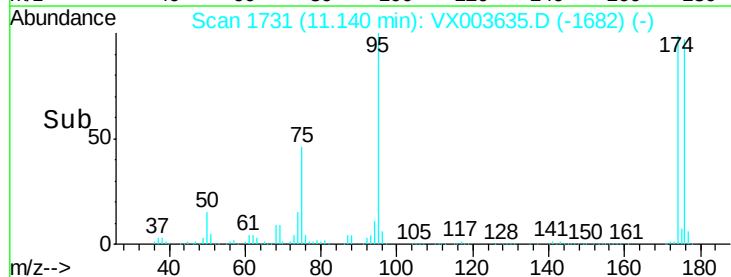
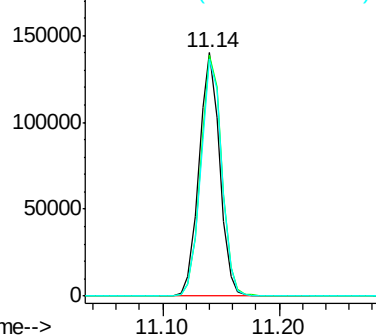
95 100

174 101.9 0.0 187.4

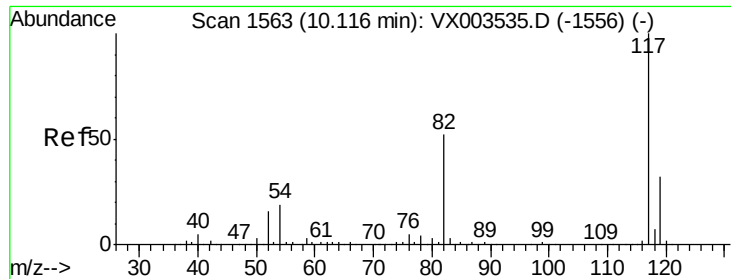
176 99.5 0.0 181.0



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



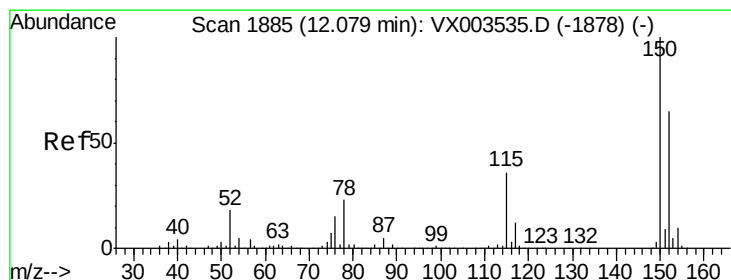
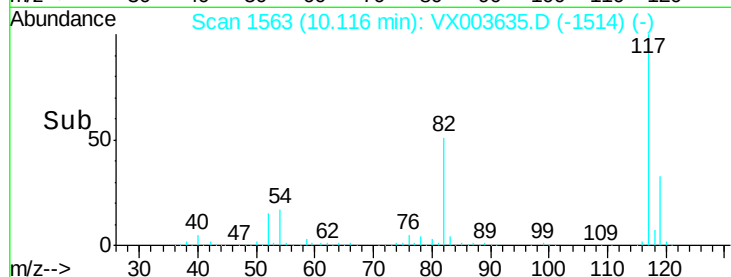
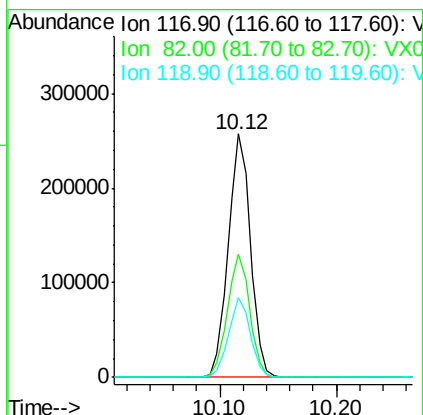
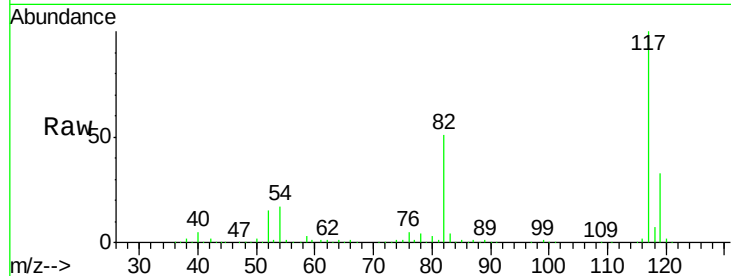
Time-->



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

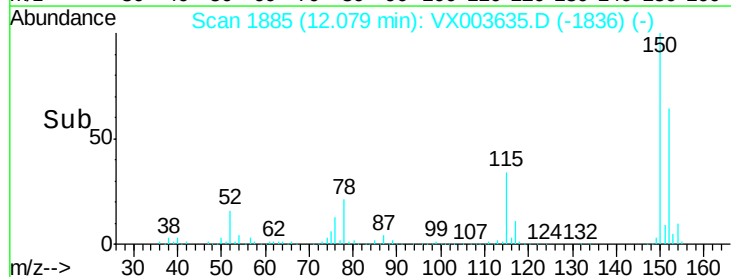
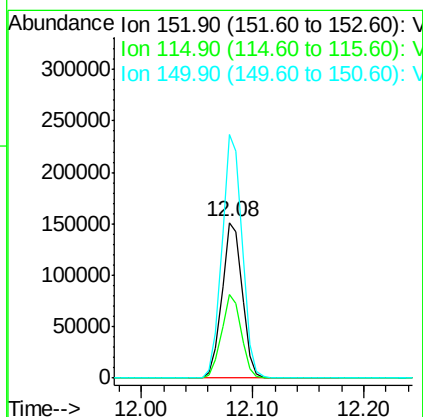
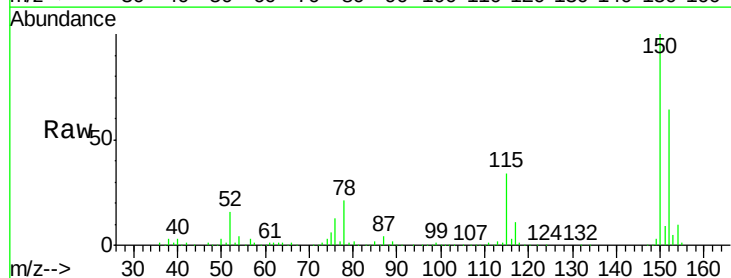
Instrument :
MSVOA_X
ClientSampleId :

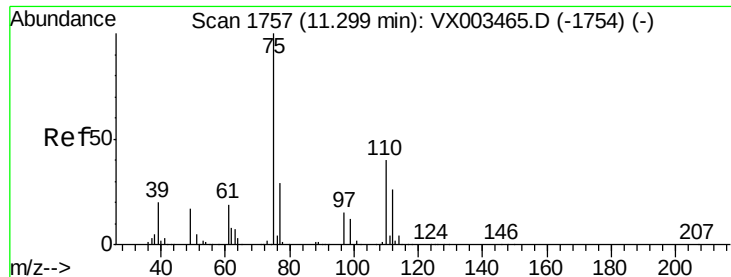
Tot Ion:117 Resp: 341212
Ion Ratio Lower Upper
117 100
82 50.9 45.0 67.4
119 32.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003635.D
Acq: 24 Jul 2018 06:16

Tgt Ion:152 Resp: 190003
Ion Ratio Lower Upper
152 100
115 52.2 40.1 120.2
150 155.7 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 22.87 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

Instrument :

MSVOA_X

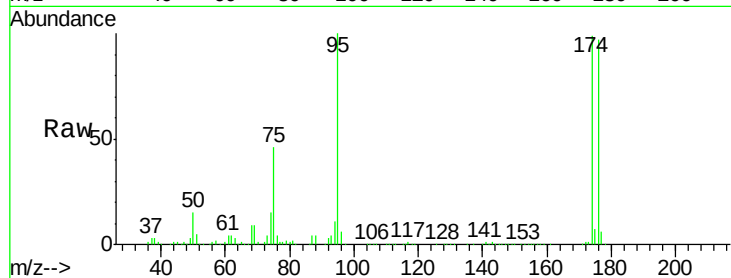
ClientSampled :

Tot Ion: 75 Resp: 78047

Ion Ratio Lower Upper

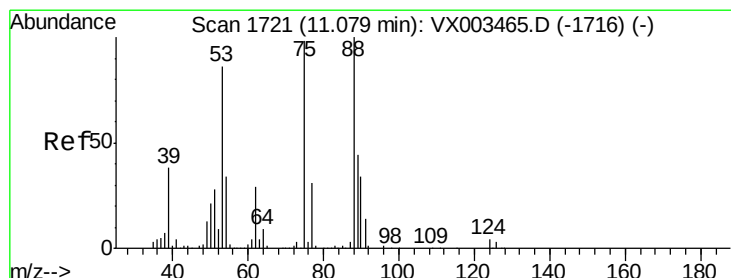
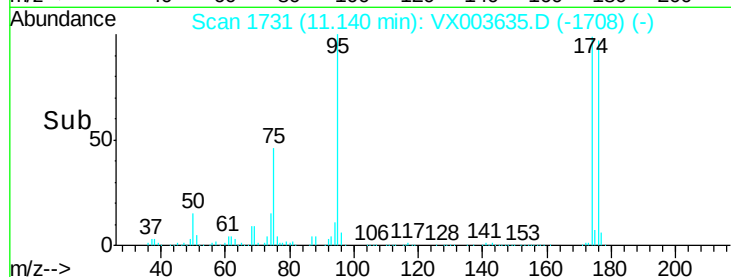
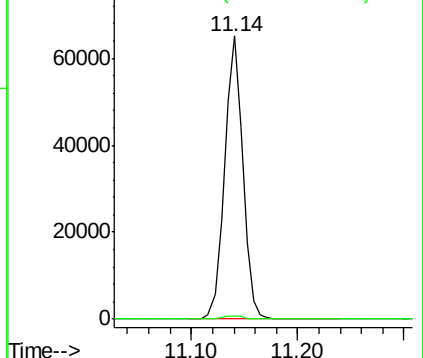
75 100

77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 64.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003635.D

Acq: 24 Jul 2018 06:16

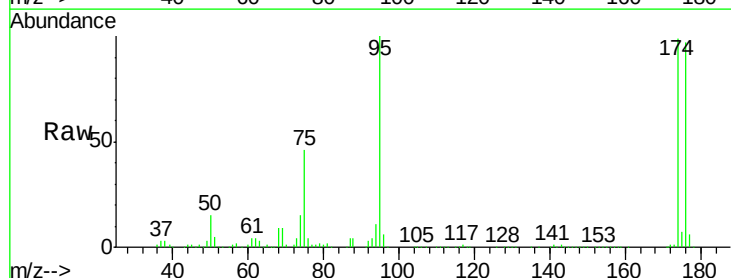
Tgt Ion: 75 Resp: 78047

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

