

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
 Data File : VX002166.D
 Acq On : 31 May 2018 05:16
 Operator : JC/MD
 Sample : J3185-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-16

Quant Time: May 31 06:39:46 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	258232	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	364279	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	320264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	171945	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	163099	35.33	ug/l	0.00
Spiked Amount			Recovery	=	70.66%	
35) Dibromofluoromethane	5.51	113	120098	32.97	ug/l	0.00
Spiked Amount			Recovery	=	65.94%	
50) Toluene-d8	8.72	98	494742	37.51	ug/l	0.00
Spiked Amount			Recovery	=	75.02%	
62) 4-Bromofluorobenzene	11.14	95	168693	32.69	ug/l	0.00
Spiked Amount			Recovery	=	65.38%	

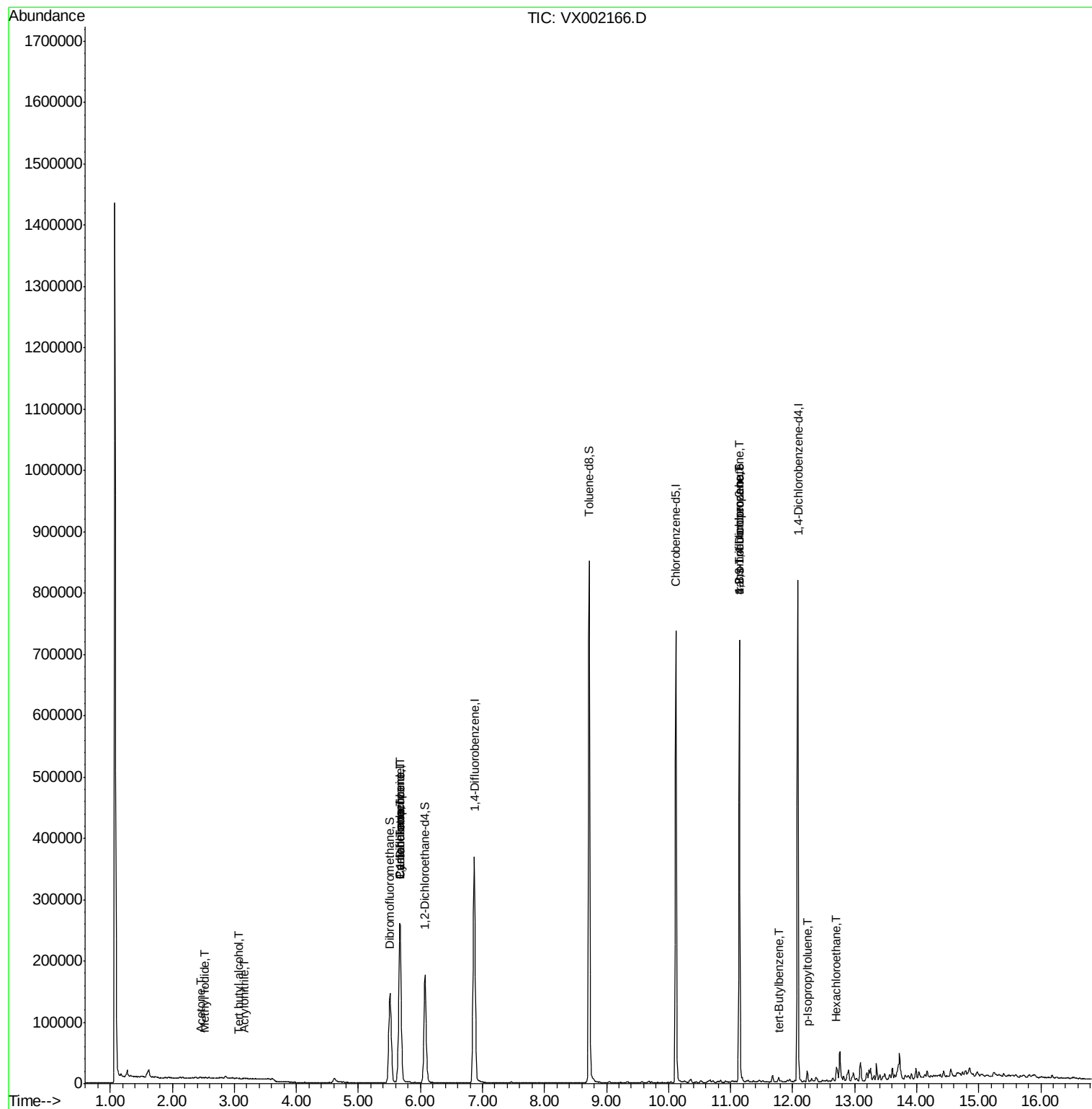
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	93	Below Cal	#	41
5) Bromomethane	1.65	94	1416	Below Cal		85
10) Methyl Iodide	2.52	142	1470	0.34	ug/l	96
11) Tert butyl alcohol	3.07	59	445	0.49	ug/l	# 10
15) Acrylonitrile	3.16	53	482	0.26	ug/l	# 73
16) Acetone	2.45	43	1988	1.12	ug/l	# 35
18) Methyl Acetate	2.78	43	466	Below Cal	#	59
20) Methylene Chloride	2.86	84	1076	Below Cal	#	87
21) trans-1,2-Dichloroethene	3.17	96	289	Below Cal	#	64
28) Bromochloromethane	5.03	49	117	Below Cal	#	14
31) Cyclohexane	5.67	56	5339	0.84	ug/l	# 3
36) 1,1-Dichloropropene	5.67	75	18420	3.64	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	23699	4.01	ug/l	# 14
41) Methacrylonitrile	5.08	41	72	Below Cal	#	1
74) N-amyl acetate	6.48	43	347	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.29	83	319	Below Cal	#	32
76) 1,2,3-Trichloropropane	11.14	75	90438	21.90	ug/l	# 33
79) 2-Chlorotoluene	11.52	91	423	Below Cal		80
81) trans-1,4-Dichloro-2-buten	11.14	75	90438	52.63	ug/l	# 10
83) tert-Butylbenzene	11.77	119	2547	0.21	ug/l	83
86) p-Isopropyltoluene	12.24	119	6469	0.49	ug/l	88
90) Hexachloroethane	12.71	117	5622	2.17	ug/l	# 2

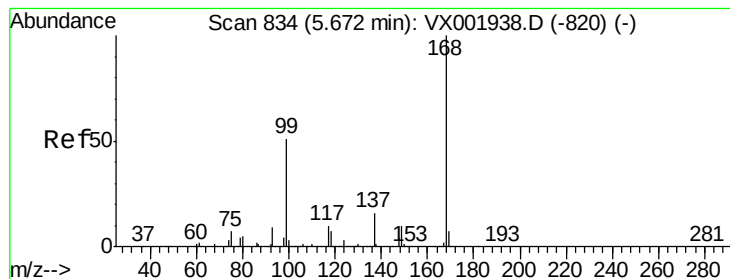
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampleId :

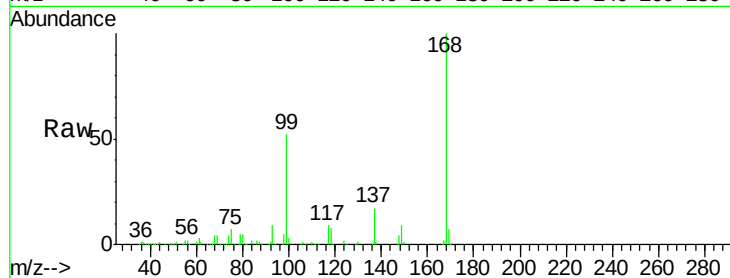
MW-16

Tgt Ion:168 Resp: 258232

Ion Ratio Lower Upper

168 100

99 52.2 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

40000

20000

0

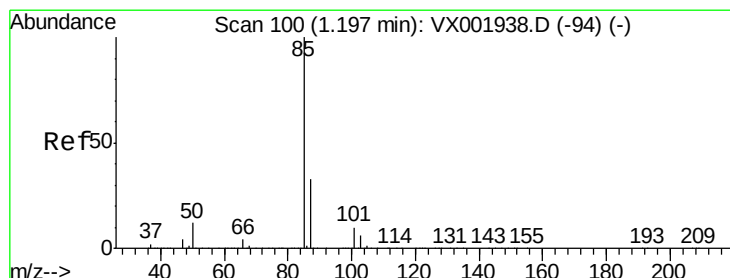
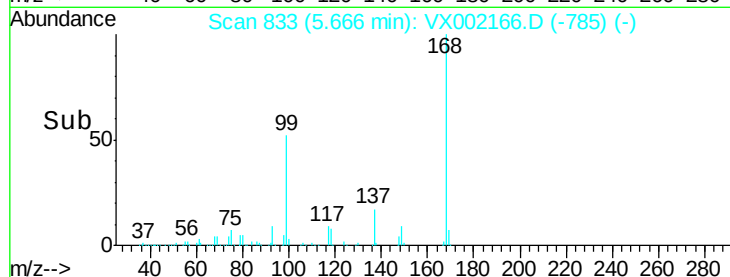
Time-->

5.50

5.60

5.70

5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002166.D

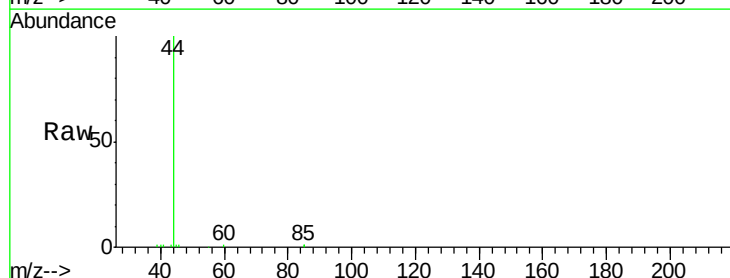
Acq: 31 May 2018 05:16

Tgt Ion: 85 Resp: 93

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

150

100

50

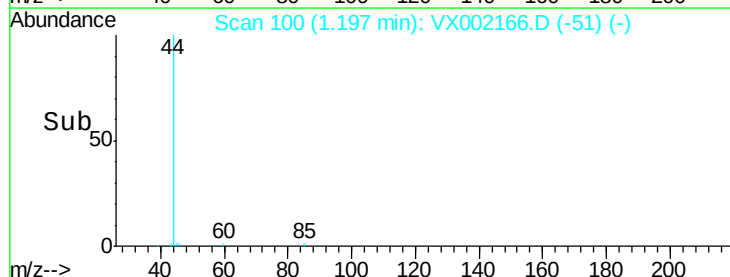
0

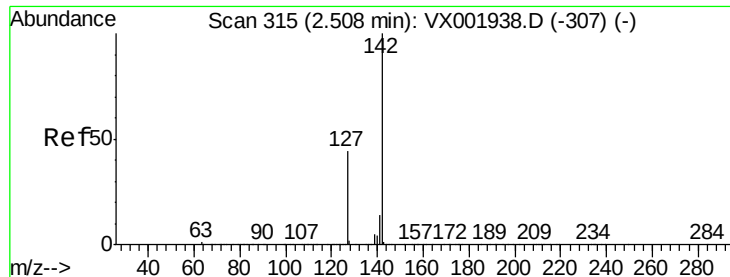
Time-->

1.18

1.20

1.22

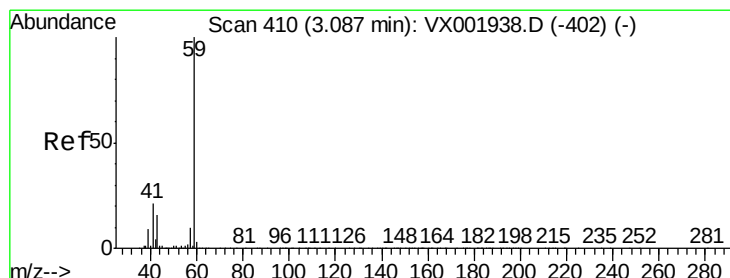
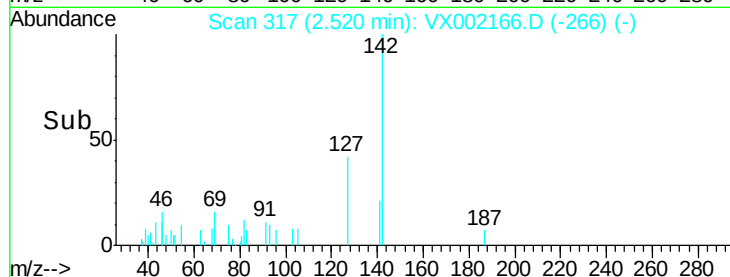
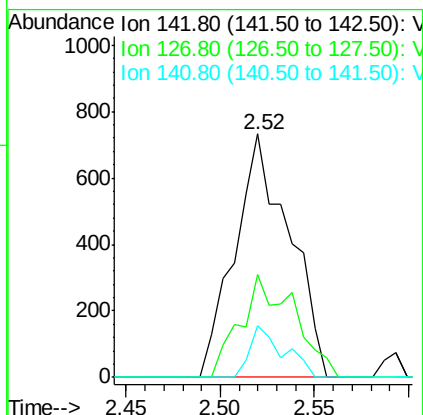
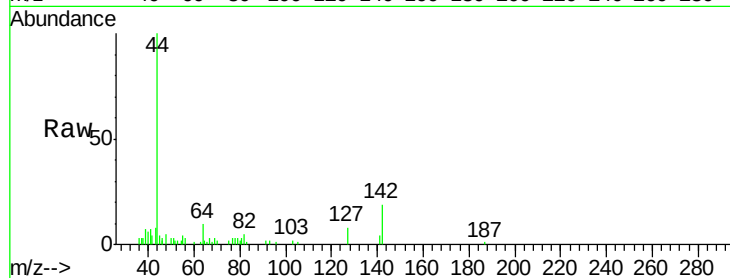




#10
Methyl Iodide
Concen: 0.34 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

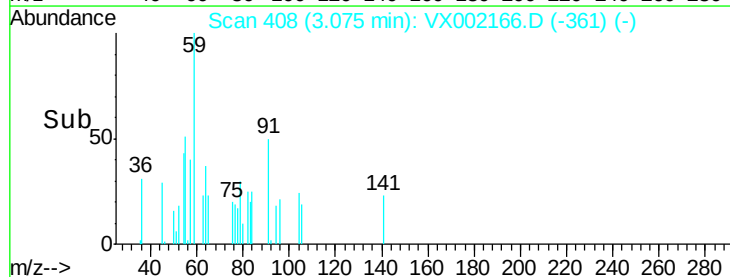
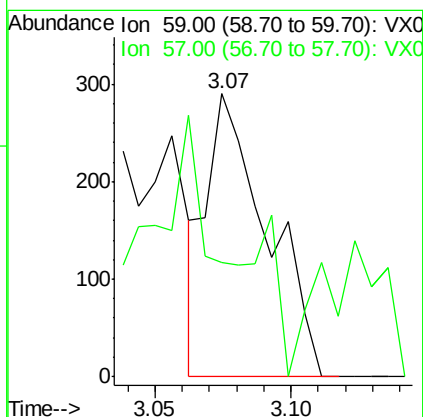
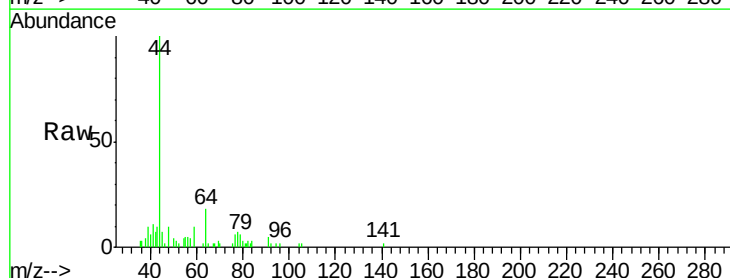
Instrument :
MSVOA_X
ClientSampleId :
MW-16

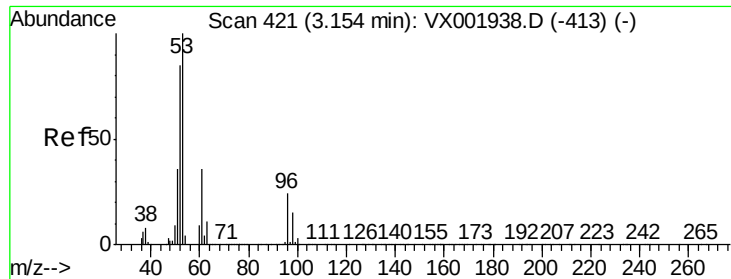
Tgt Ion: 142 Resp: 1470
Ion Ratio Lower Upper
142 100
127 41.7 35.5 53.3
141 13.1 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.49 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

Tgt Ion: 59 Resp: 445
Ion Ratio Lower Upper
59 100
57 45.2 8.9 13.3#





#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampled :

MW-16

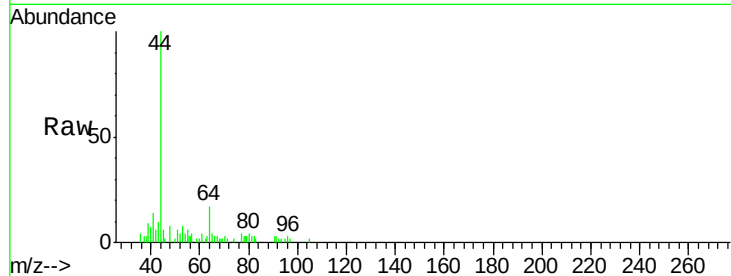
Tgt Ion: 53 Resp: 482

Ion Ratio Lower Upper

53 100

52 103.1 66.4 99.6#

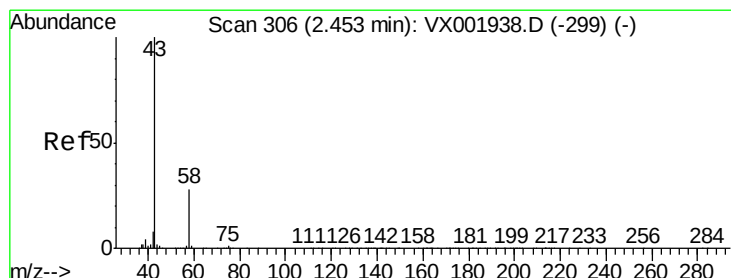
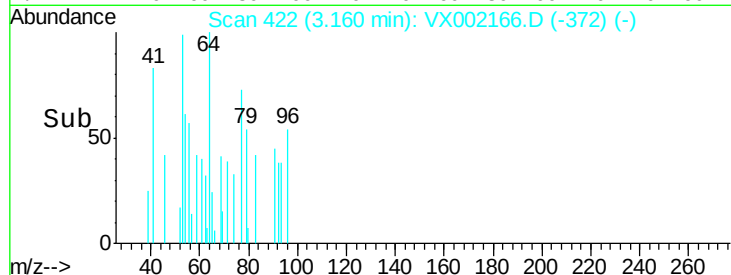
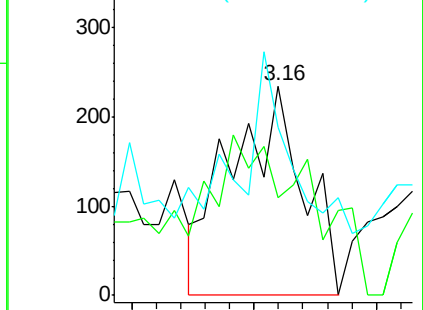
51 58.3 29.3 43.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.12 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002166.D

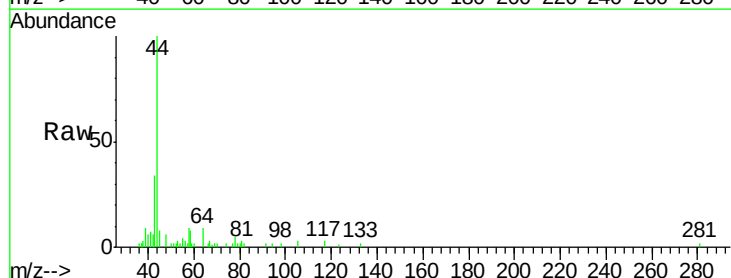
Acq: 31 May 2018 05:16

Tgt Ion: 43 Resp: 1988

Ion Ratio Lower Upper

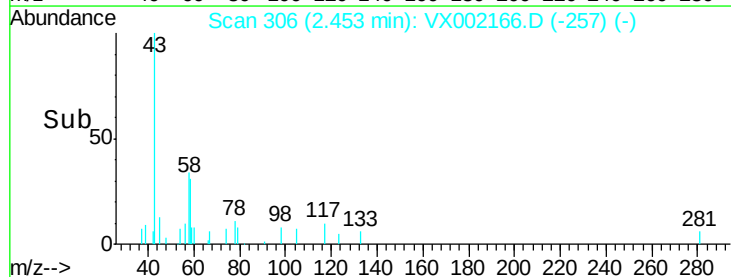
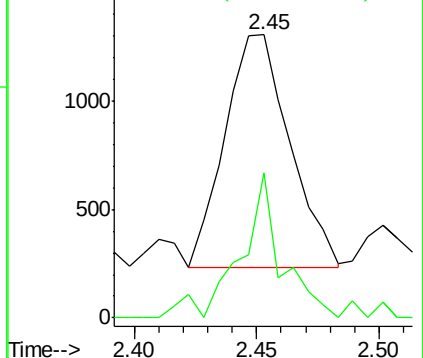
43 100

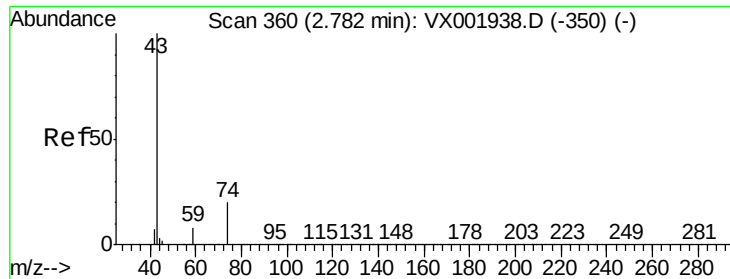
58 62.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

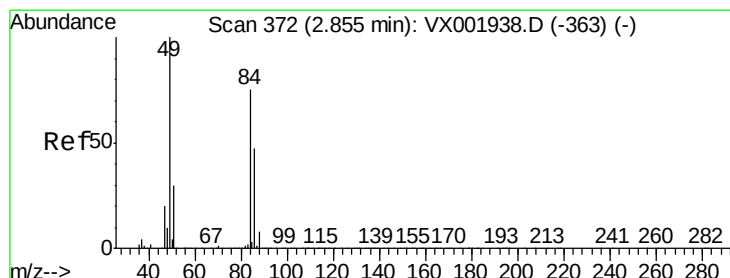
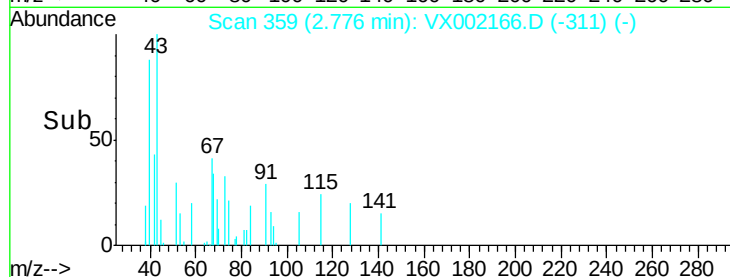
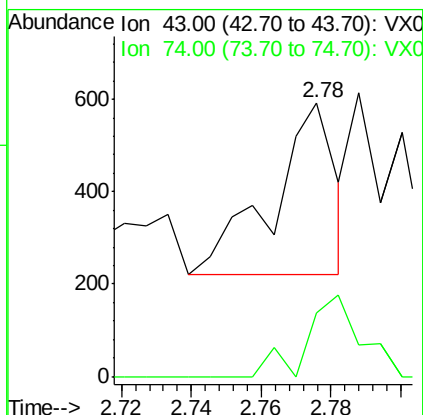
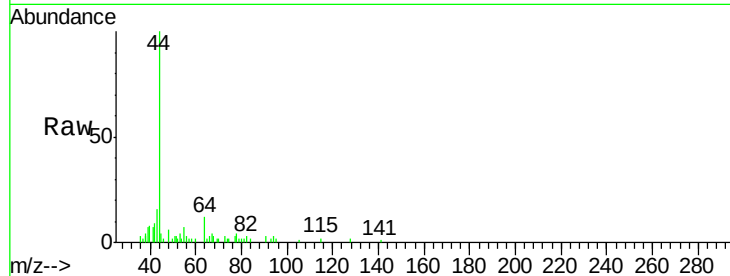




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

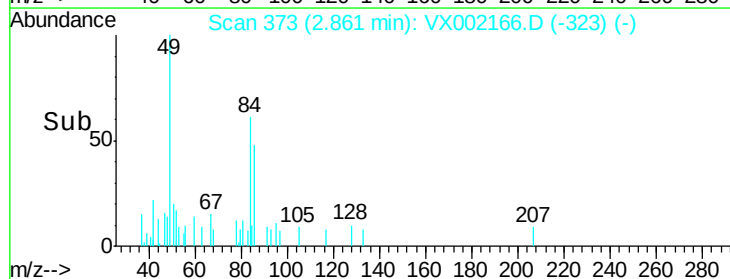
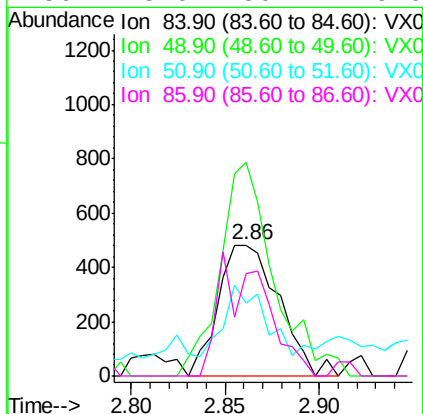
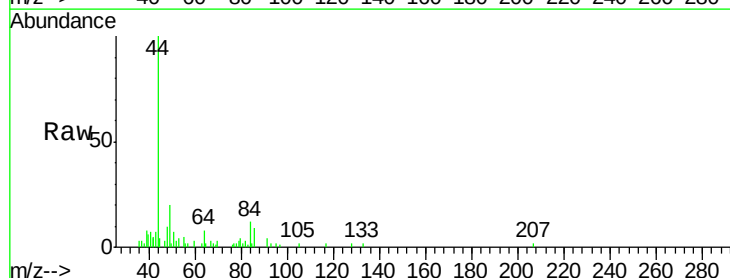
Instrument :
MSVOA_X
ClientSampled :
MW-16

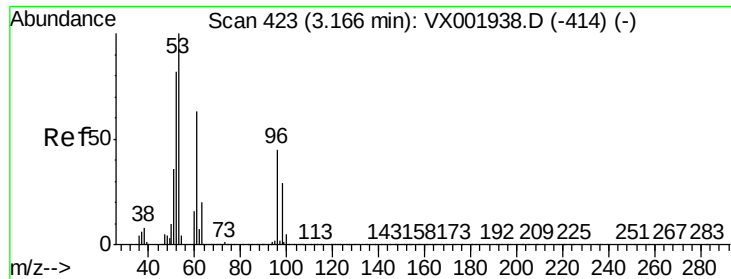
Tgt Ion: 43 Resp: 466
Ion Ratio Lower Upper
43 100
74 40.3 16.8 25.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

Tgt Ion: 84 Resp: 1076
Ion Ratio Lower Upper
84 100
49 150.3 107.2 160.8
51 39.5 32.4 48.6
86 78.0 50.4 75.6#





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampled :

MW-16

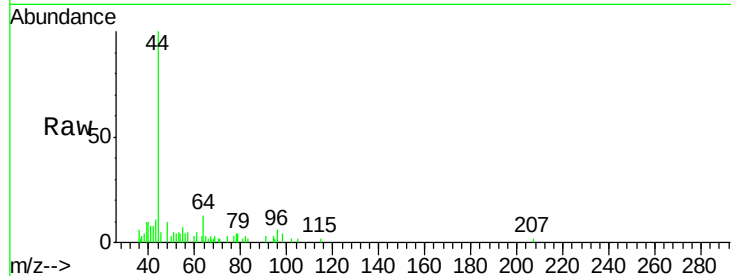
Tgt Ion: 96 Resp: 289

Ion Ratio Lower Upper

96 100

61 80.6 113.3 169.9#

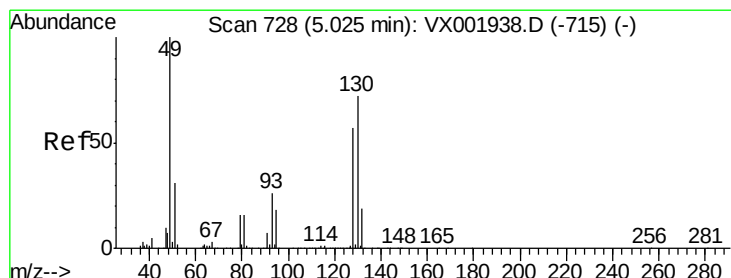
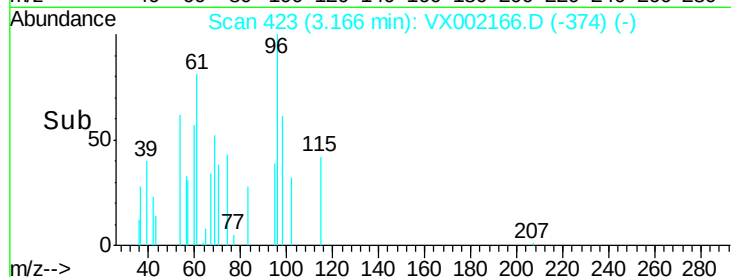
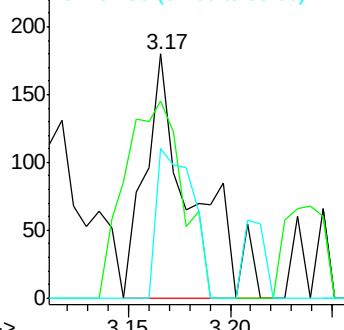
98 61.1 51.7 77.5



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: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

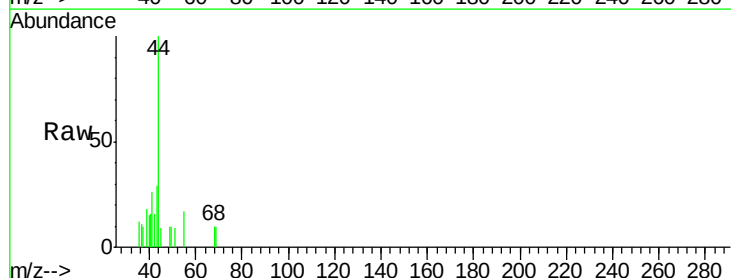
Tgt Ion: 49 Resp: 117

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

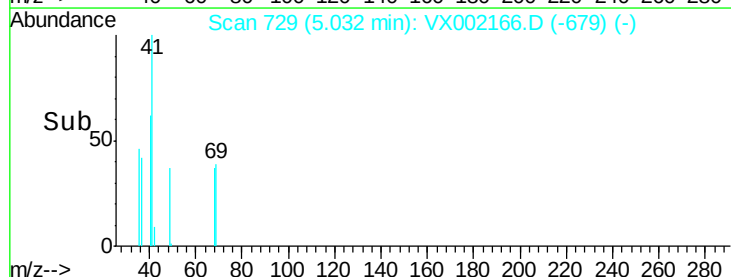
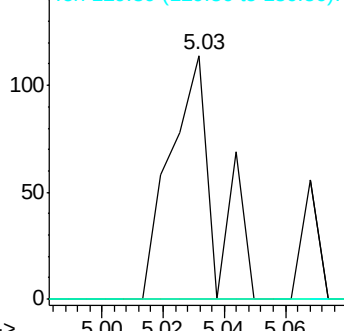
130 0.0 59.4 89.2#

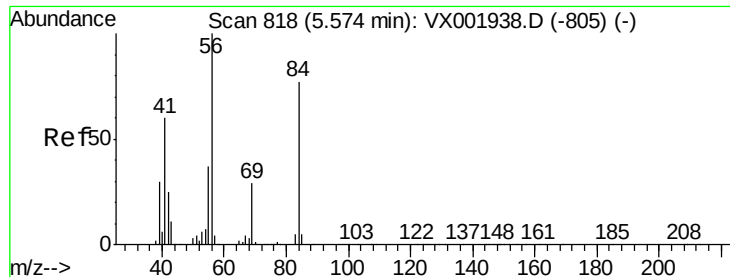


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

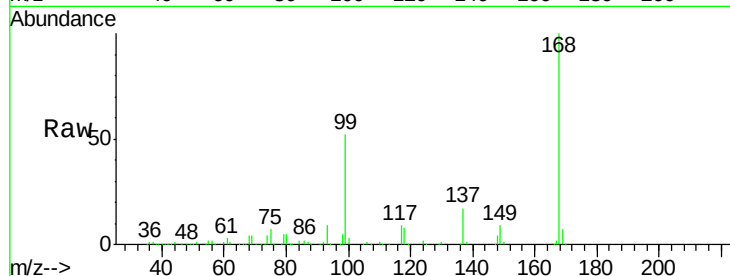




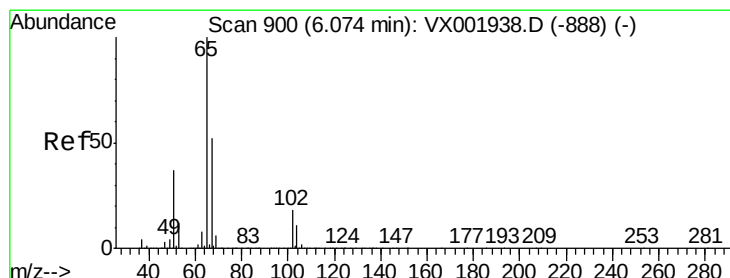
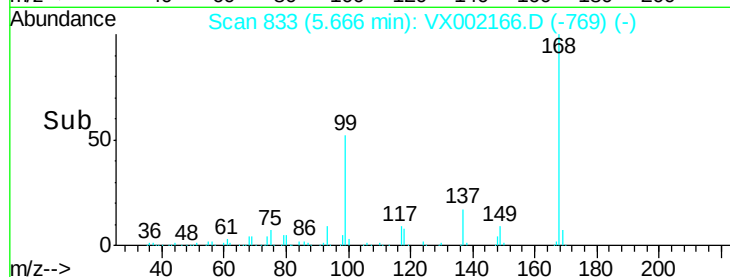
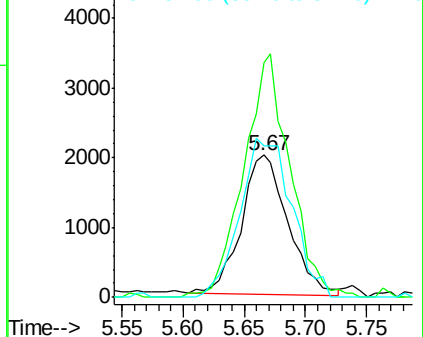
#31
Cyclohexane
Concen: 0.84 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

Instrument :
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Tgt Ion: 56 Resp: 5339
Ion Ratio Lower Upper
56 100
69 166.5 23.1 34.7#
84 109.9 62.0 93.0#

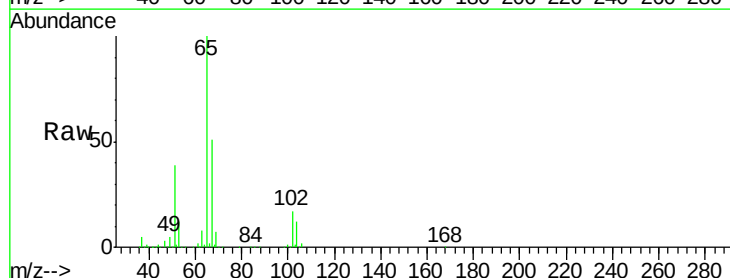


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

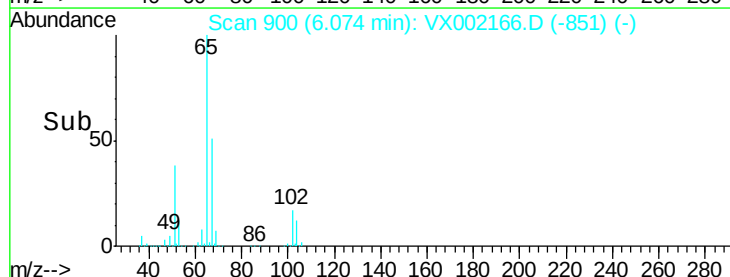
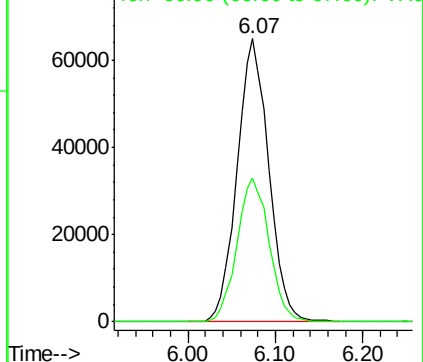


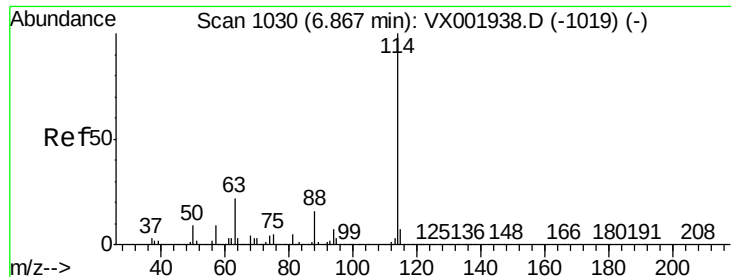
#33
1,2-Dichloroethane-d4
Concen: 35.33 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

Tgt Ion: 65 Resp: 163099
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.0



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampleId :

MW-16

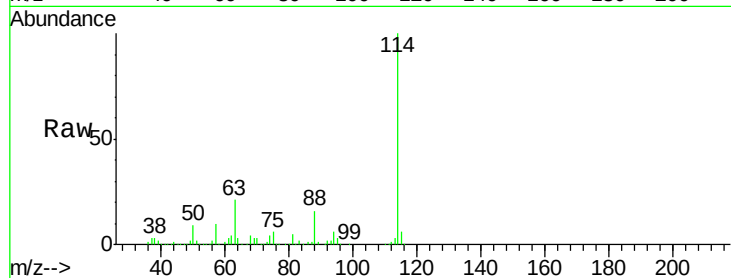
Tgt Ion:114 Resp: 364279

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

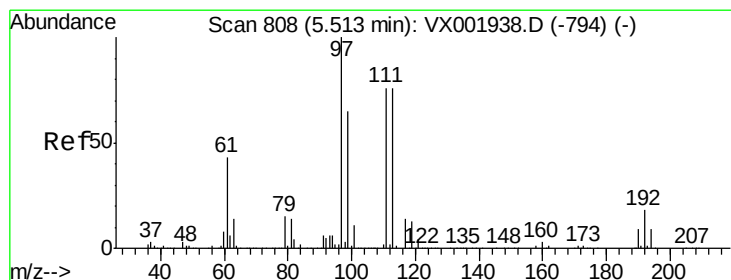
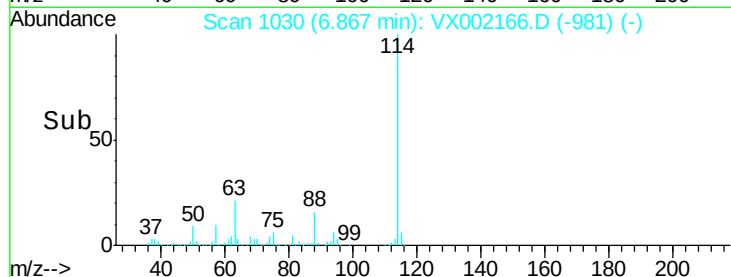
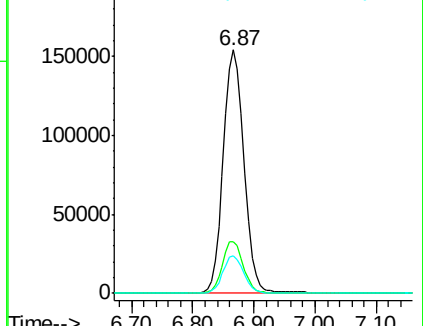
88 15.6 0.0 31.6



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: 32.97 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

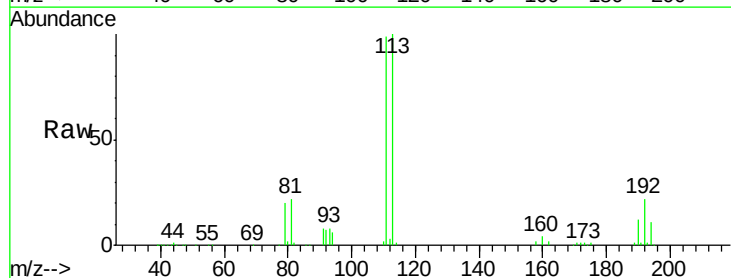
Tgt Ion:113 Resp: 120098

Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

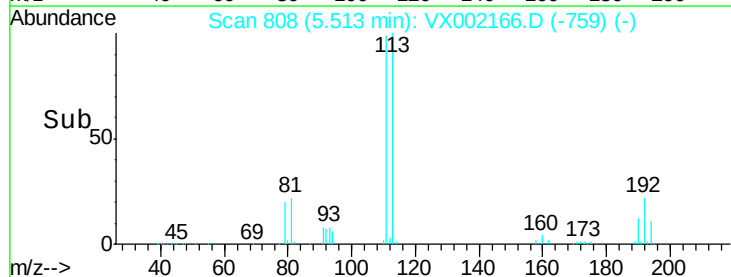
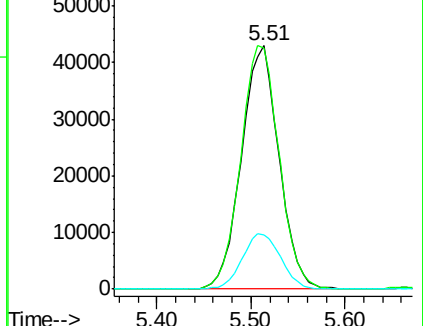
192 23.4 18.9 28.3

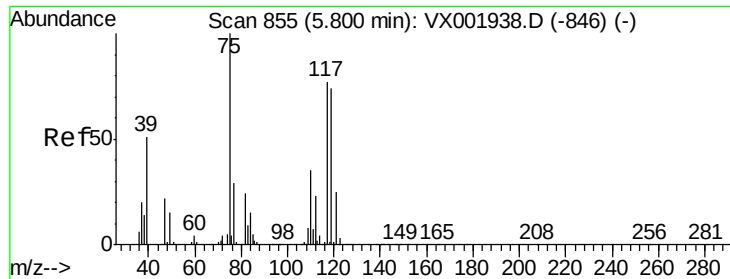


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

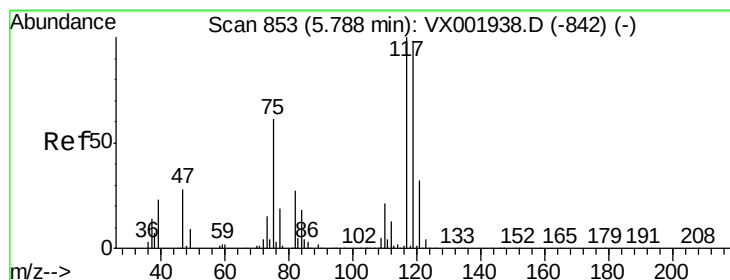
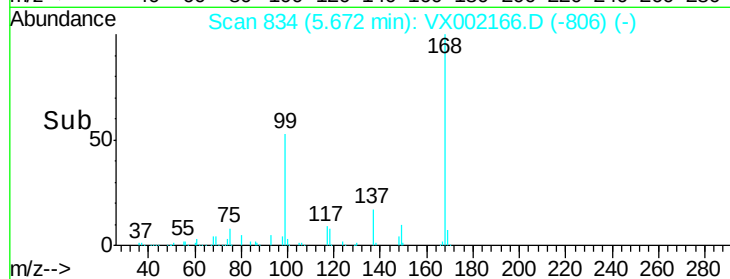
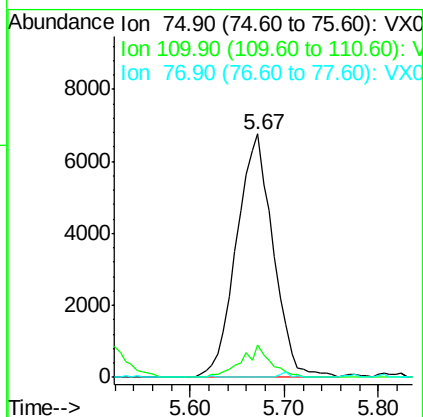
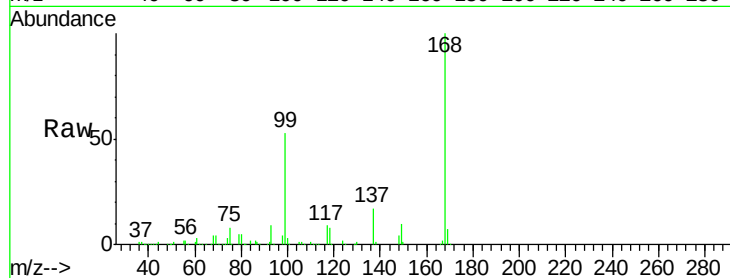




#36
 1,1-Dichloropropene
 Concen: 3.64 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002166.D
 Acq: 31 May 2018 05:16

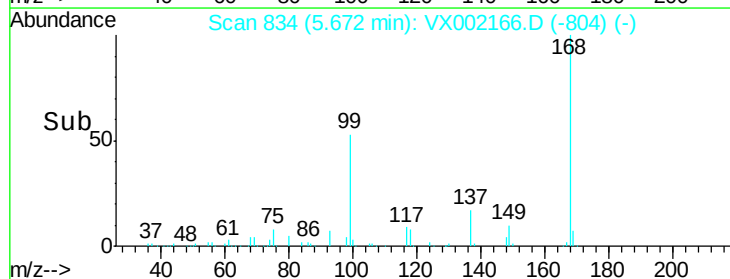
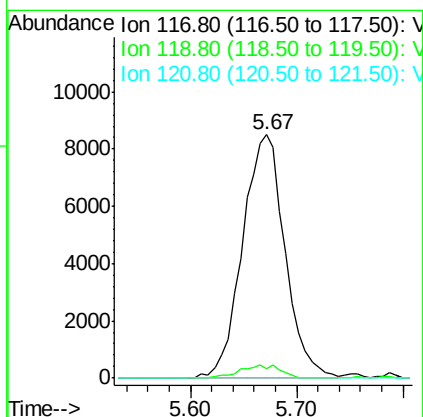
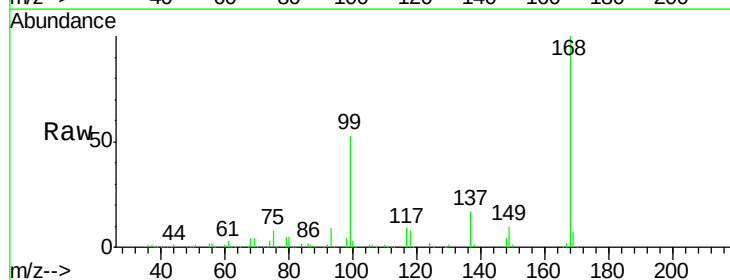
Instrument :
 MSVOA_X
 ClientSampled :
 MW-16

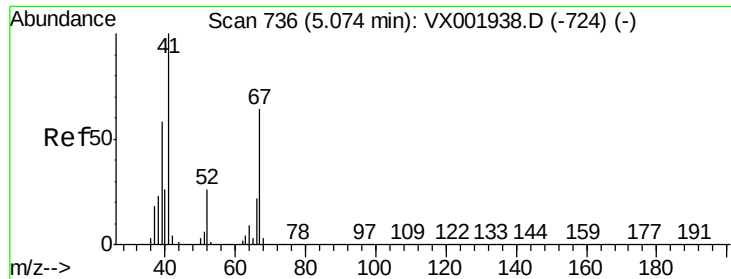
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	17.4	52.2#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.01 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002166.D
 Acq: 31 May 2018 05:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	78.5	117.7#
121	0.0	25.5	38.3#

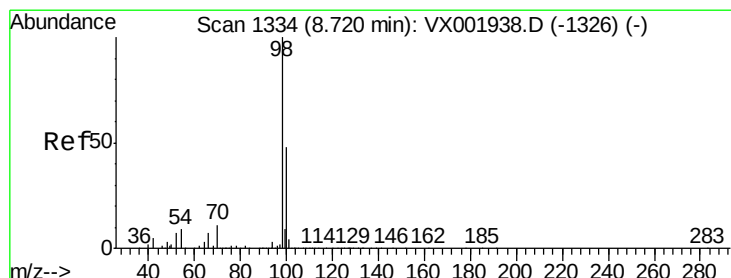
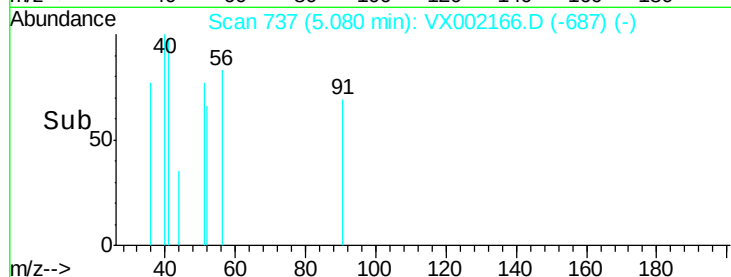
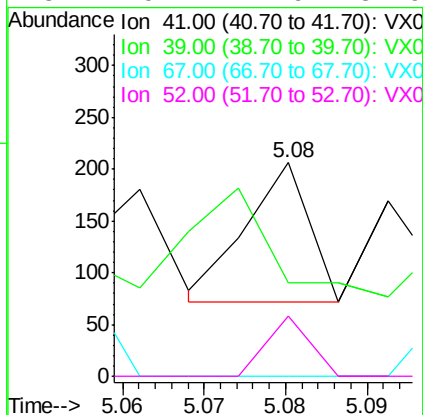
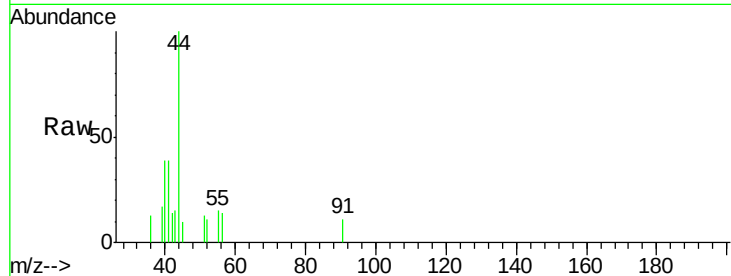




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.08 min Scan# 737
Delta R.T. 0.01 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

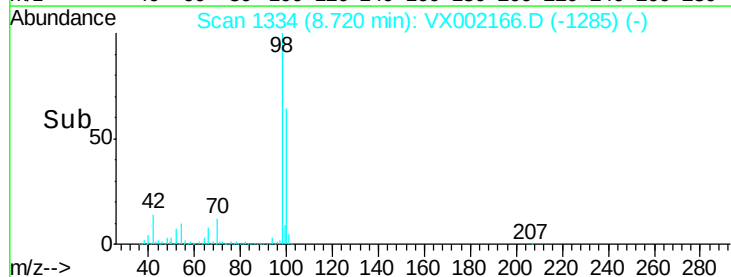
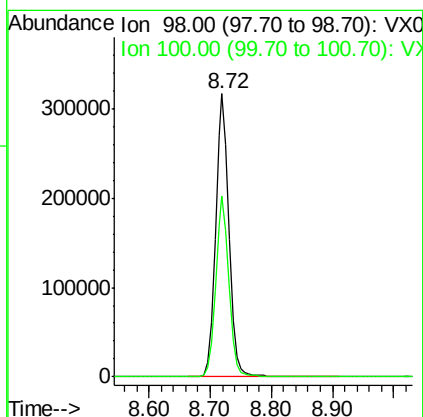
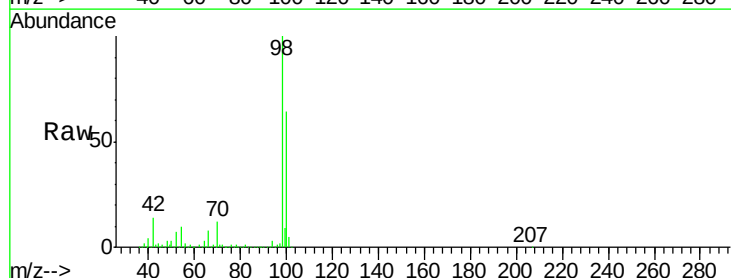
Instrument :
MSVOA_X
ClientSampled :
MW-16

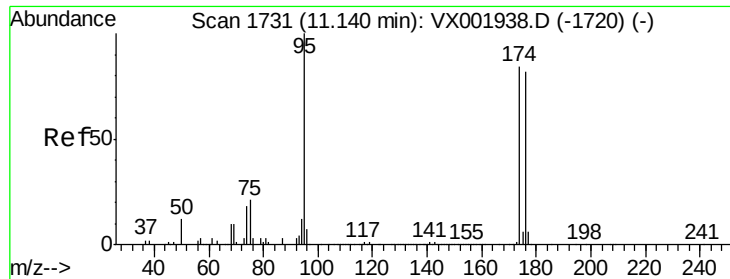
Tgt Ion:	41	Resp:	72
Ion	Ratio	Lower	Upper
41	100		
39	394.4	46.0	69.0#
67	0.0	50.6	75.8#
52	29.2	21.9	32.9



#50
Toluene-d8
Concen: 37.51 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002166.D
Acq: 31 May 2018 05:16

Tgt Ion:	98	Resp:	494742
Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.5	77.3





#62

4-Bromofluorobenzene

Concen: 32.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampleId :

MW-16

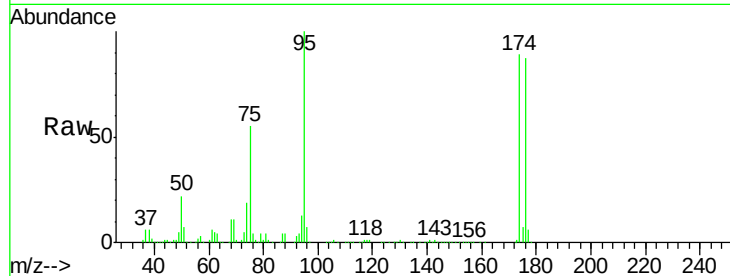
Tgt Ion: 95 Resp: 168693

Ion Ratio Lower Upper

95 100

174 92.5 0.0 178.8

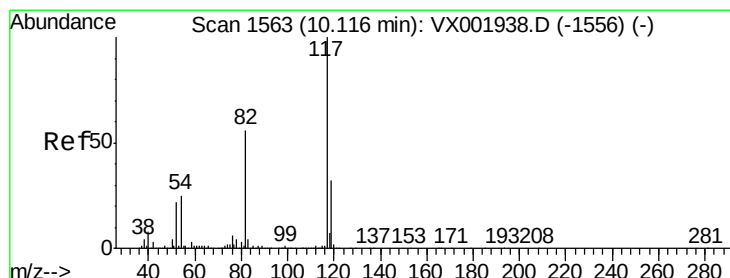
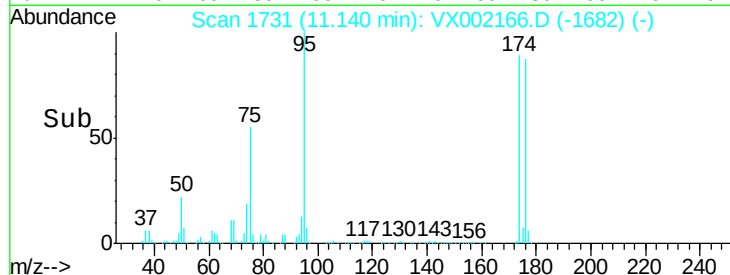
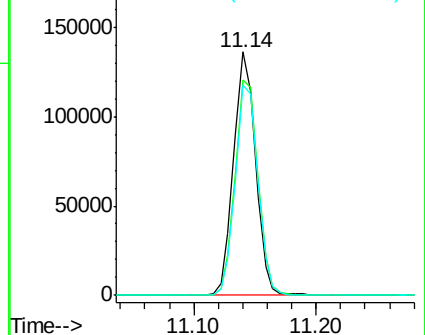
176 88.9 0.0 175.6



Abundance Ion 94.90 (94.60 to 95.60): VX

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# 1563

Delta R.T. 0.00 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

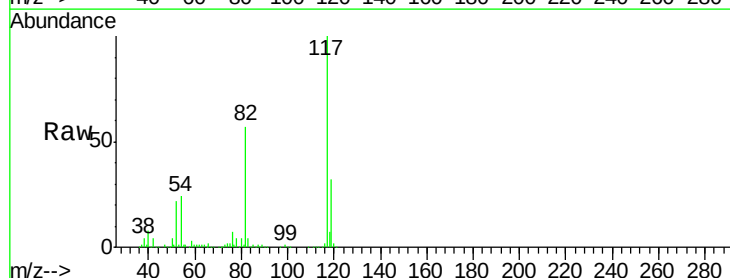
Tgt Ion: 117 Resp: 320264

Ion Ratio Lower Upper

117 100

82 56.9 44.8 67.2

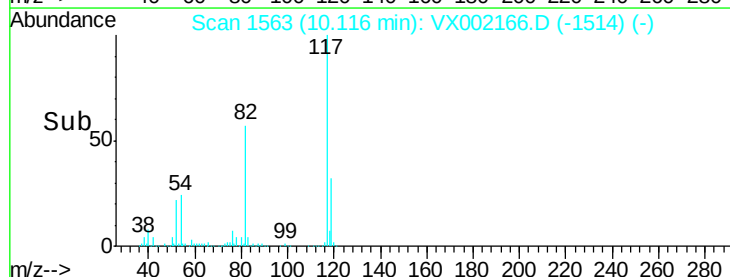
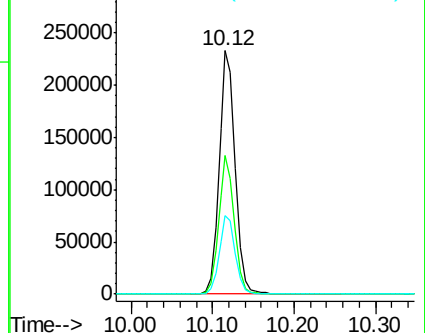
119 32.3 25.5 38.3

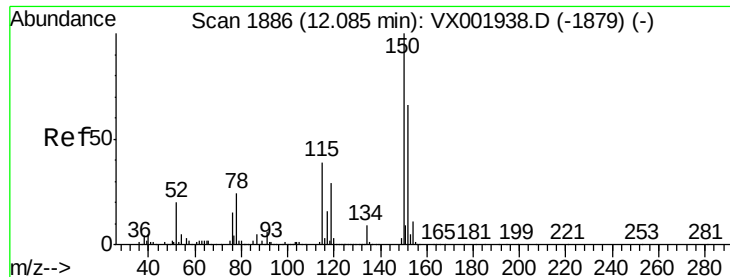


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampled :

MW-16

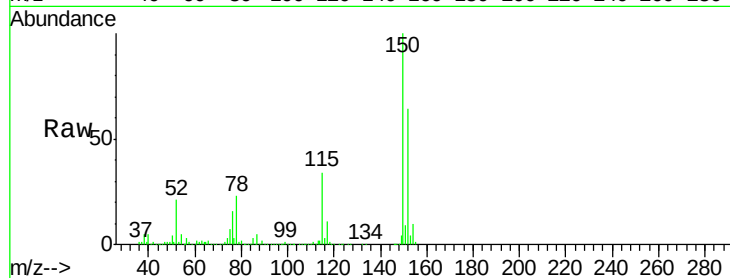
Tgt Ion:152 Resp: 171945

Ion Ratio Lower Upper

152 100

115 55.1 42.3 126.8

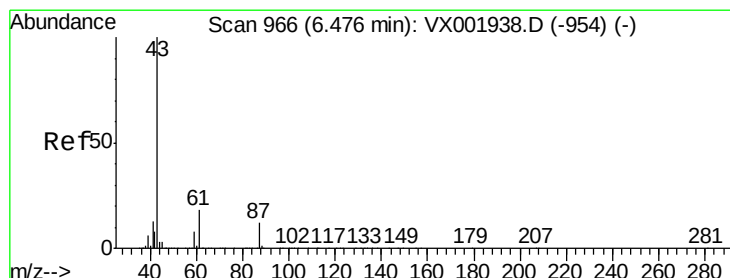
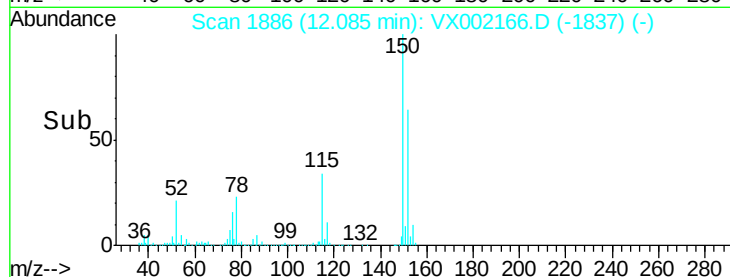
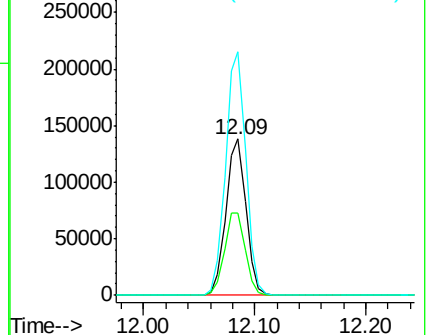
150 157.8 0.0 351.0



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Tgt Ion: 43 Resp: 347

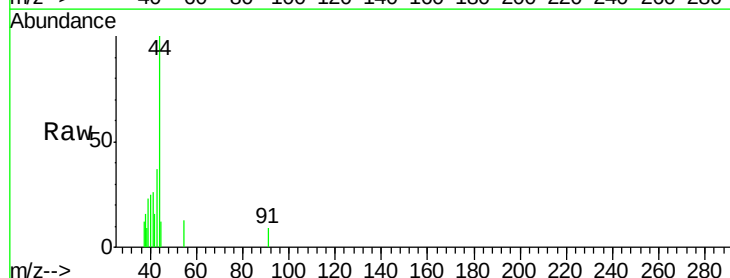
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 40.3 0.1 0.1#

61 0.0 14.5 21.7#

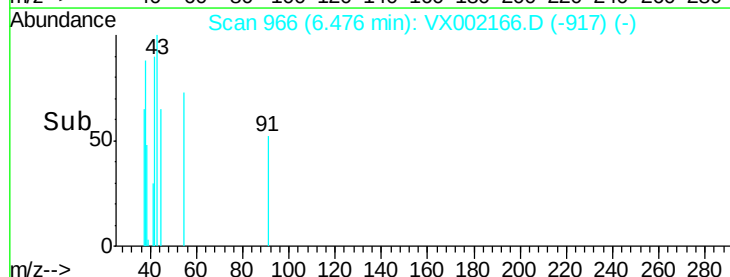
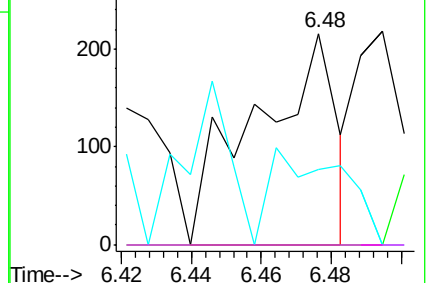


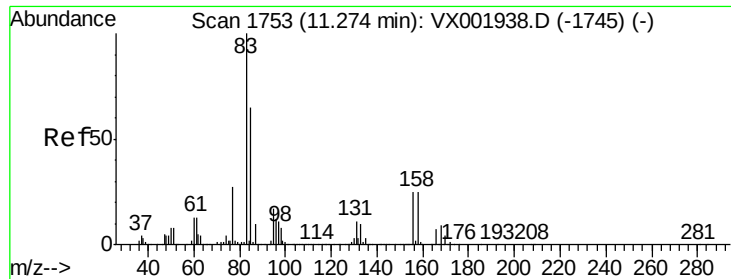
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.29 min Scan# 1755

Delta R.T. 0.01 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampleId :

MW-16

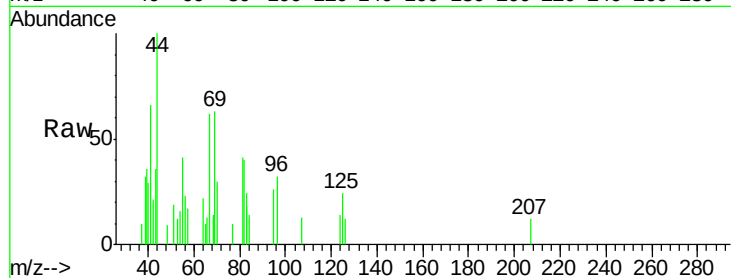
Tgt Ion: 83 Resp: 319

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 6.3 32.6 97.7#

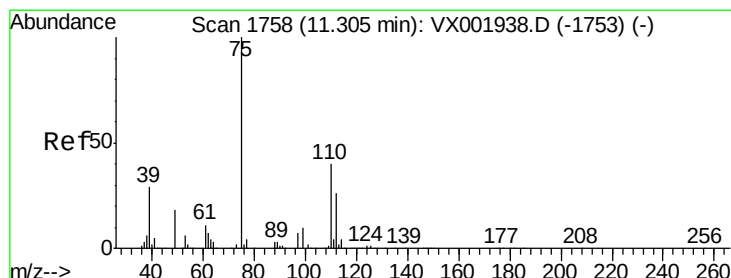
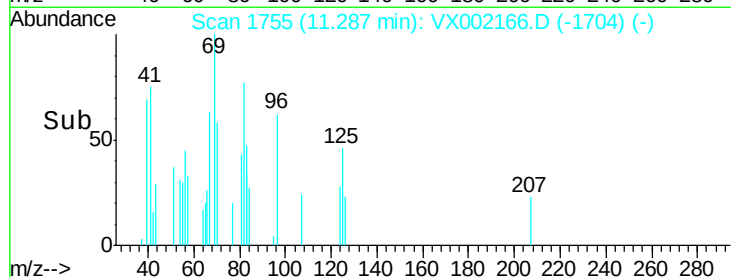
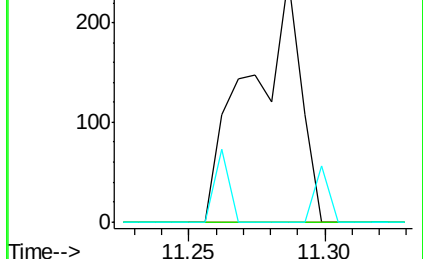


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002166.D

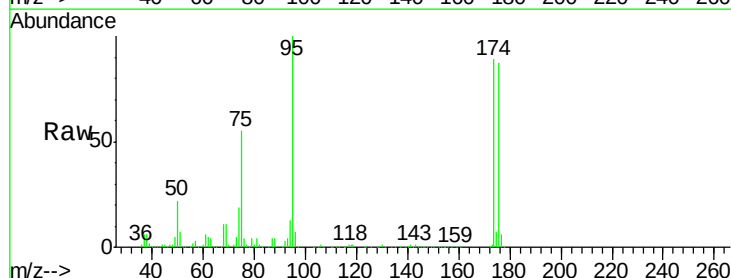
Acq: 31 May 2018 05:16

Tgt Ion: 75 Resp: 90438

Ion Ratio Lower Upper

75 100

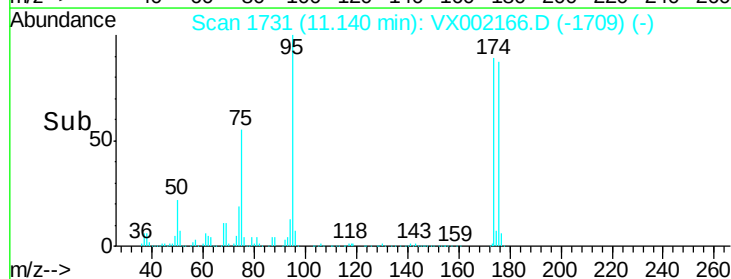
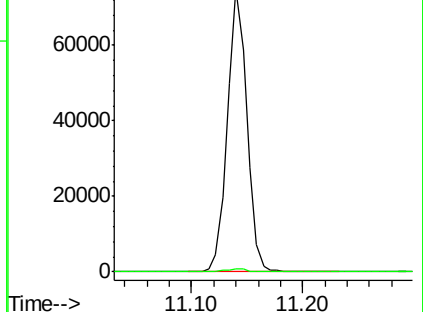
77 1.3 22.8 68.3#

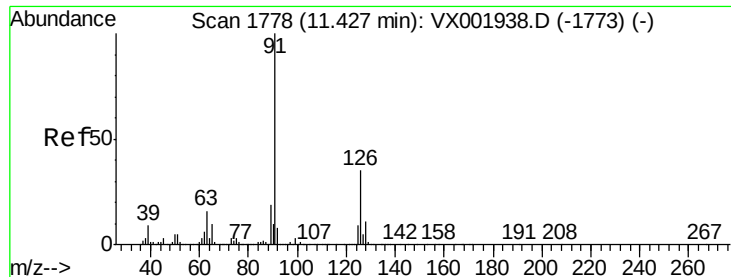


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.52 min Scan# 1793

Delta R.T. 0.09 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampled :

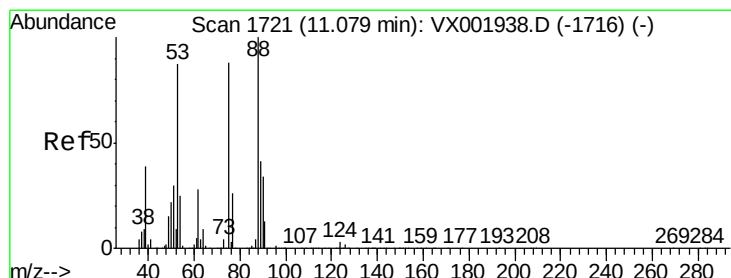
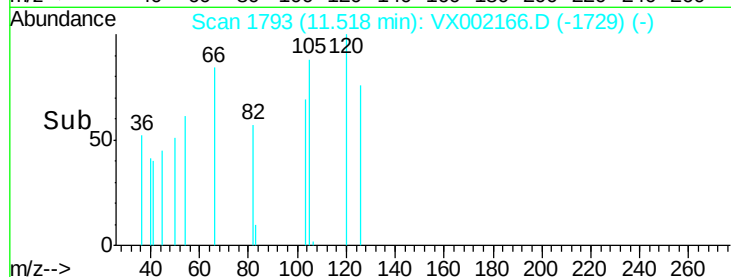
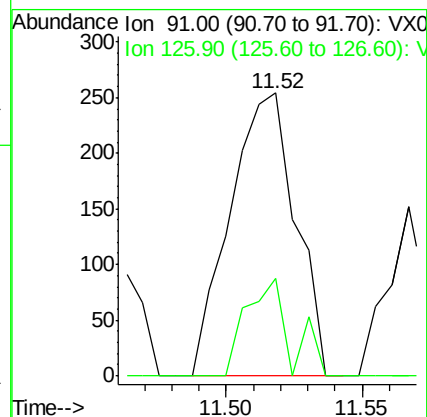
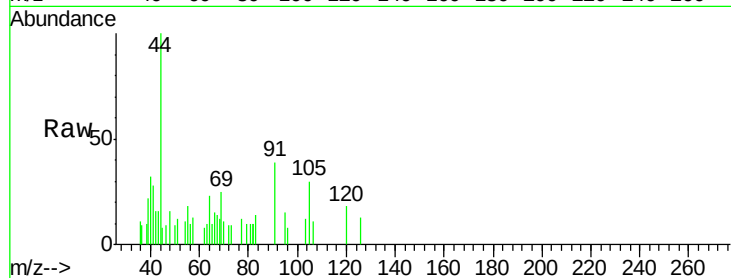
MW-16

Tgt Ion: 91 Resp: 423

Ion Ratio Lower Upper

91 100

126 23.2 17.4 52.2



#81

trans-1,4-Dichloro-2-butene

Concen: 52.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

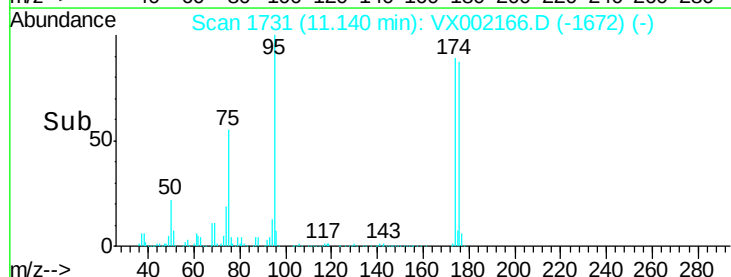
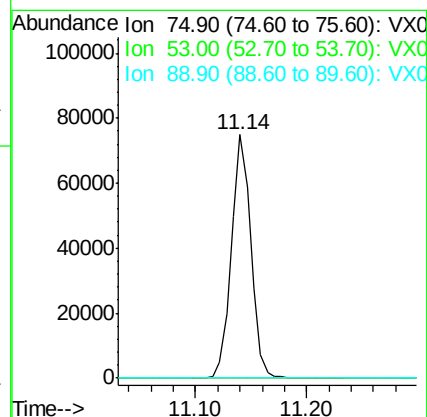
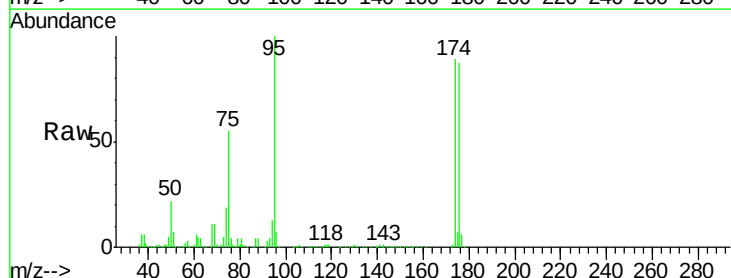
Tgt Ion: 75 Resp: 90438

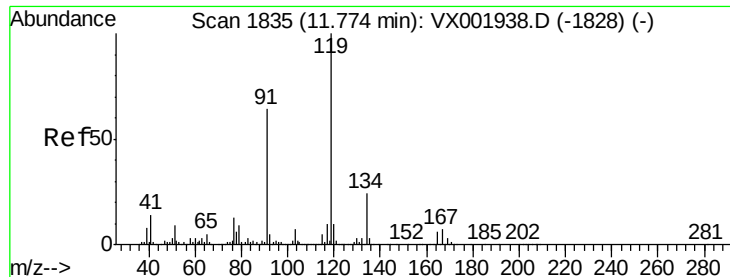
Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

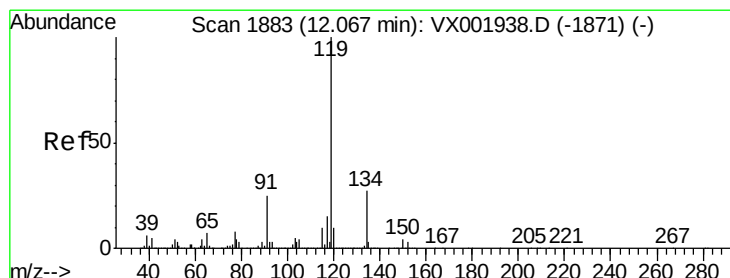
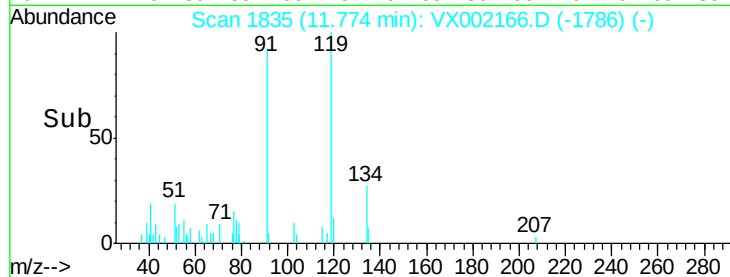
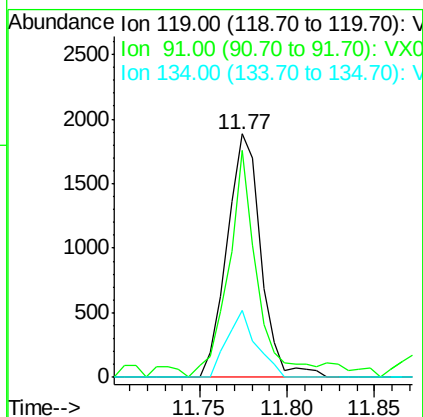
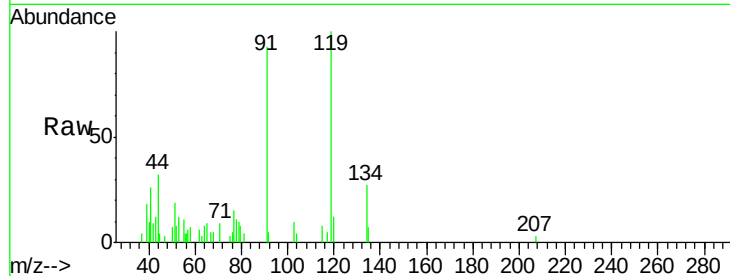




#83
 tert-Butylbenzene
 Concen: 0.21 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX002166.D
 Acq: 31 May 2018 05:16

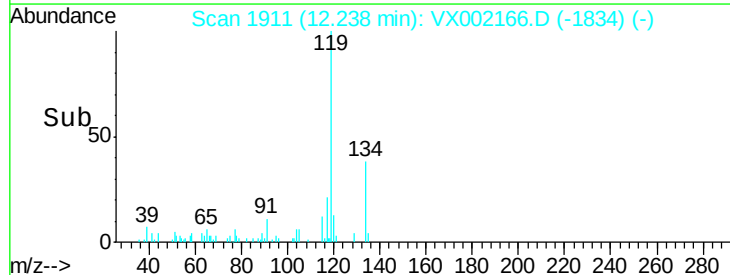
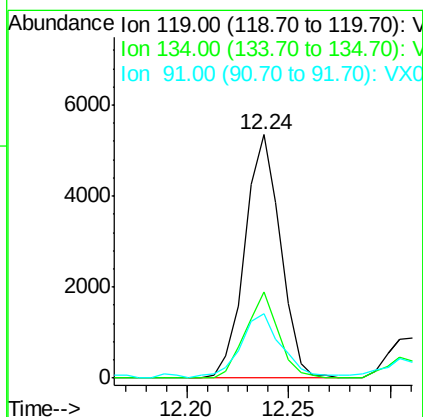
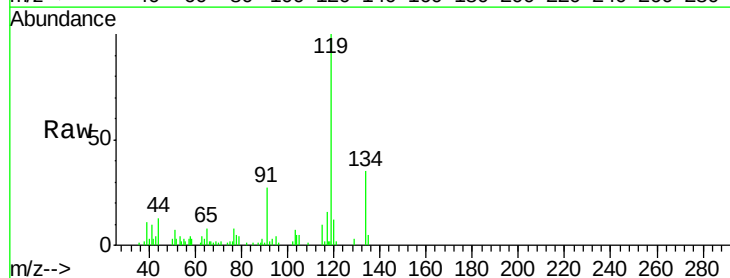
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-16

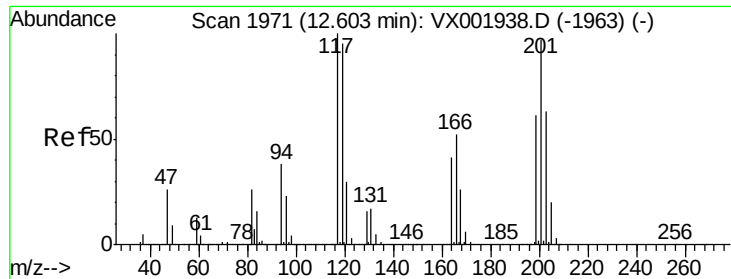
Tgt Ion:	119	Resp:	2547
Ion	Ratio	Lower	Upper
119	100		
91	79.2	30.6	91.8
134	23.6	11.7	35.0



#86
 p-Isopropyltoluene
 Concen: 0.49 ug/l
 RT: 12.24 min Scan# 1911
 Delta R.T. 0.17 min
 Lab File: VX002166.D
 Acq: 31 May 2018 05:16

Tgt Ion:	119	Resp:	6469
Ion	Ratio	Lower	Upper
119	100		
134	32.9	13.6	40.8
91	30.8	12.2	36.4





#90

Hexachloroethane

Concen: 2.17 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.10 min

Lab File: VX002166.D

Acq: 31 May 2018 05:16

Instrument :

MSVOA_X

ClientSampleId :

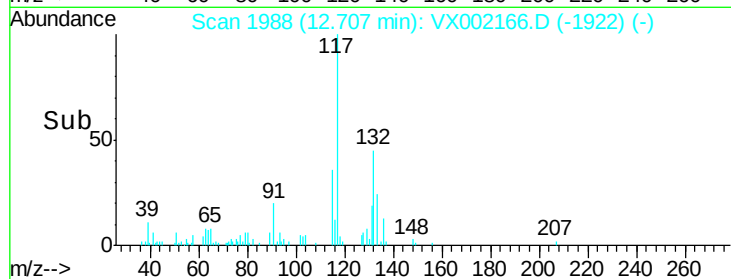
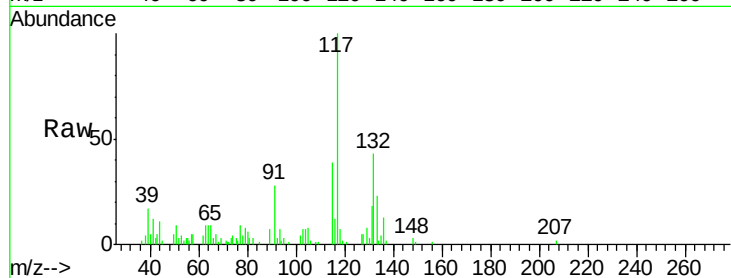
MW-16

Tgt Ion:117 Resp: 5622

Ion Ratio Lower Upper

117 100

201 0.0 48.0 144.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

