

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041119\
 Data File : VX008855.D
 Acq On : 11 Apr 2019 16:31
 Operator : JC/SP
 Sample : K2349-08DL 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW128-190409DL

Quant Time: Apr 12 07:35:43 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	192793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	309240	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	270915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119166	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	127752	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	
35) Dibromofluoromethane	5.49	113	91543	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
50) Toluene-d8	8.71	98	390530	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	11.13	95	132961	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	

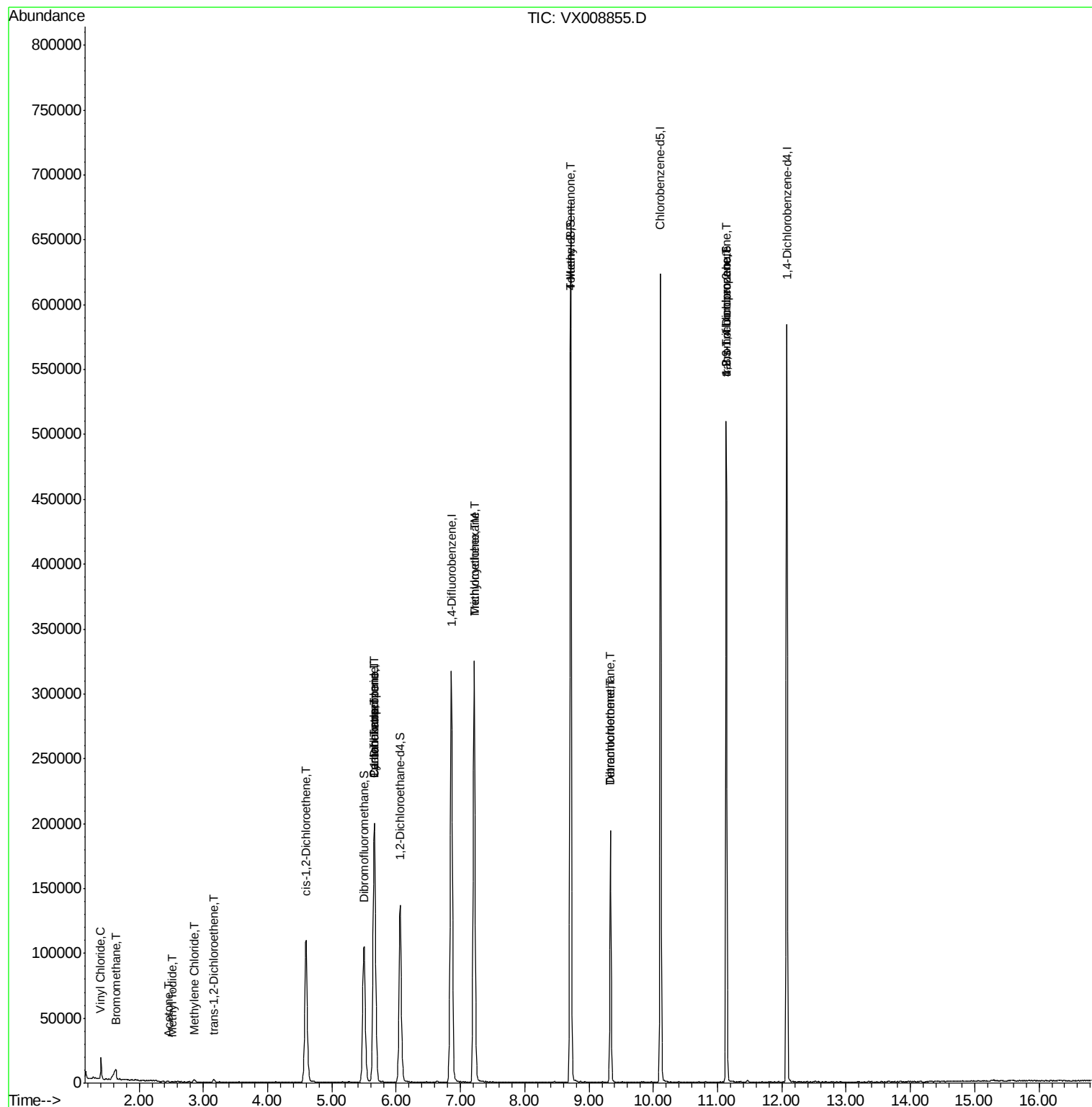
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	327	Below Cal		99
4) Vinyl Chloride	1.40	62	11506	3.835	ug/l	97
5) Bromomethane	1.64	94	385	2.136	ug/l	88
6) Chloroethane	1.73	64	172	Below Cal	#	43
10) Methyl Iodide	2.51	142	118	4.059	ug/l #	42
16) Acetone	2.45	43	518	0.320	ug/l #	44
17) Carbon Disulfide	2.56	76	501	Below Cal	#	75
20) Methylene Chloride	2.85	84	821	0.303	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	710	0.294	ug/l #	57
27) cis-1,2-Dichloroethene	4.59	96	68432	24.688	ug/l	89
28) Bromochloromethane	5.03	49	24	Below Cal	#	22
31) Cyclohexane	5.66	56	4178	0.860	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15255	4.513	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18042	6.449	ug/l #	17
39) Methylcyclohexane	7.21	83	1575	0.377	ug/l #	1
44) Trichloroethene	7.21	130	122694	52.312	ug/l	98
51) 4-Methyl-2-Pentanone	8.71	43	1906	0.419	ug/l #	1
60) Dibromochloromethane	9.34	129	35619	15.861	ug/l #	11
64) Tetrachloroethene	9.34	164	37125	18.496	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	68148	20.817	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	68148	57.384	ug/l #	9

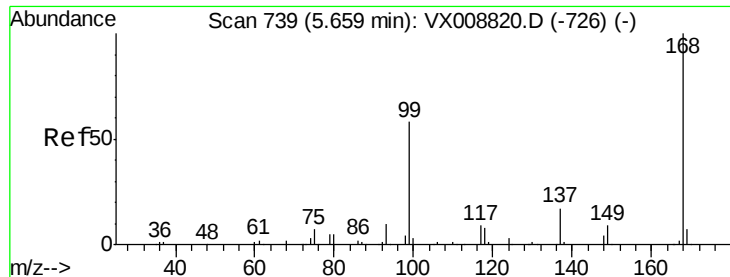
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
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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: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

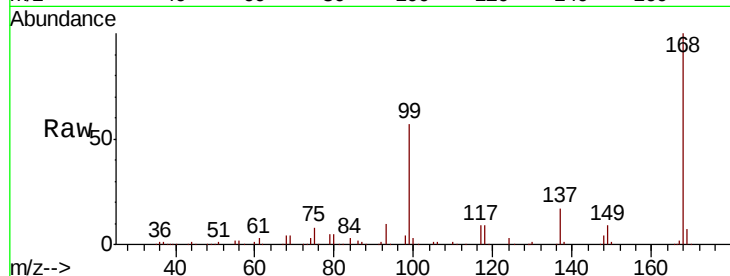
KY062MW128-190409DL

Tgt Ion:168 Resp: 192793

Ion Ratio Lower Upper

168 100

99 56.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

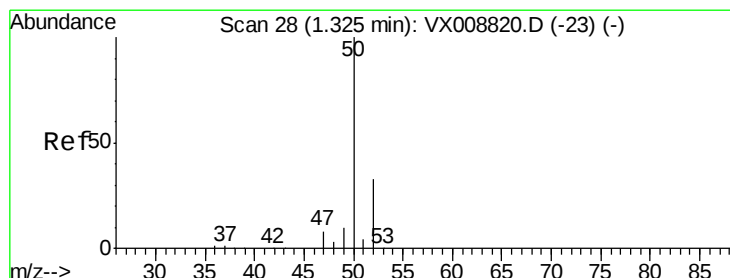
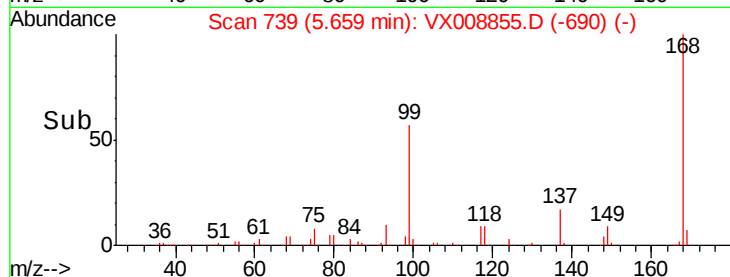
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX008855.D

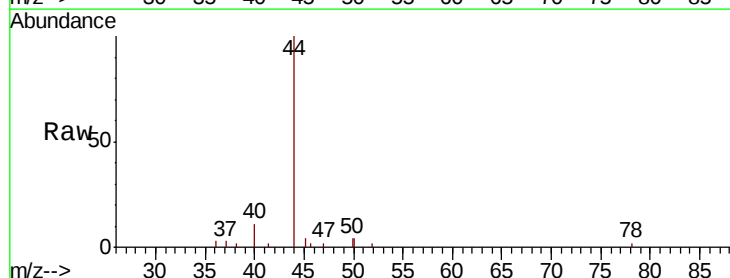
Acq: 11 Apr 2019 16:31

Tgt Ion: 50 Resp: 327

Ion Ratio Lower Upper

50 100

52 31.7 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

200

150

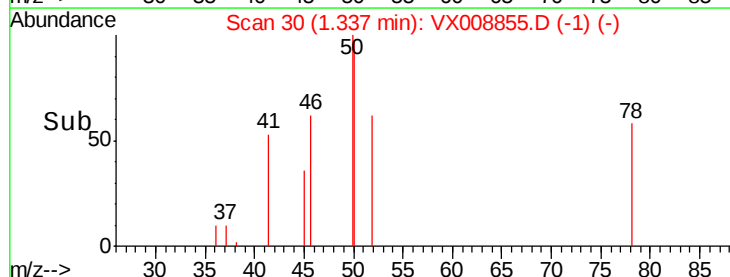
100

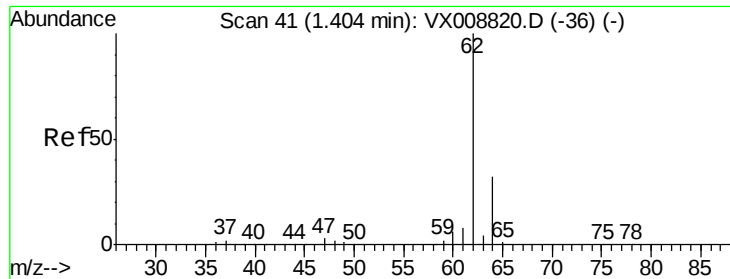
50

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 3.835 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

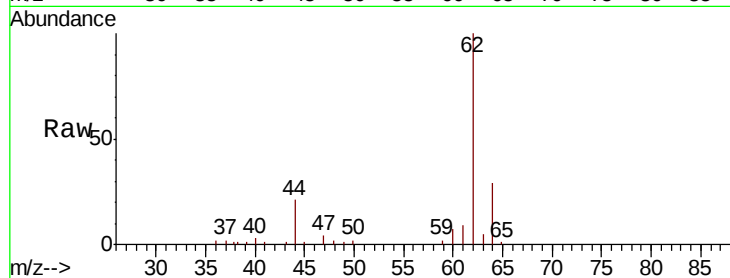
KY062MW128-190409DL

Tgt Ion: 62 Resp: 11506

Ion Ratio Lower Upper

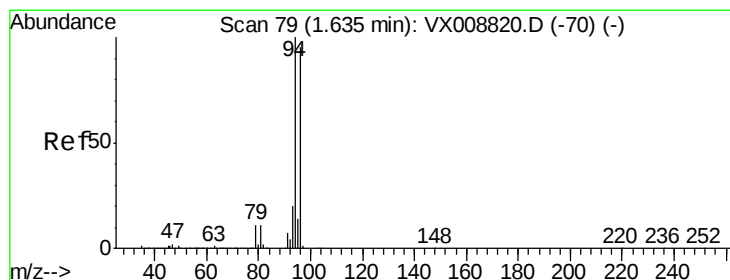
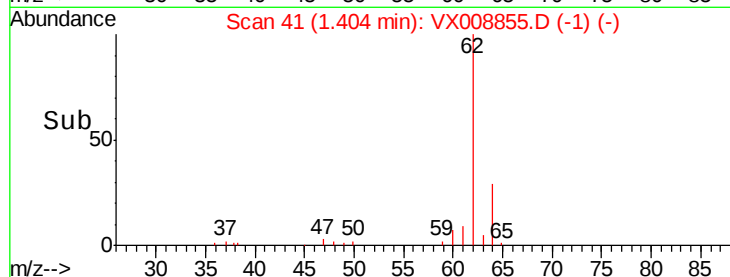
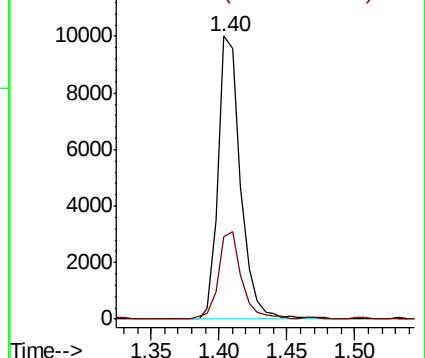
62 100

64 29.1 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.136 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008855.D

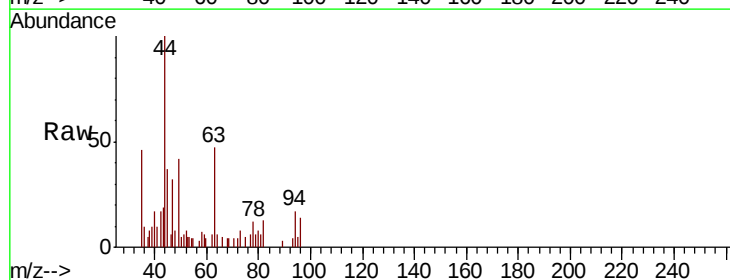
Acq: 11 Apr 2019 16:31

Tgt Ion: 94 Resp: 385

Ion Ratio Lower Upper

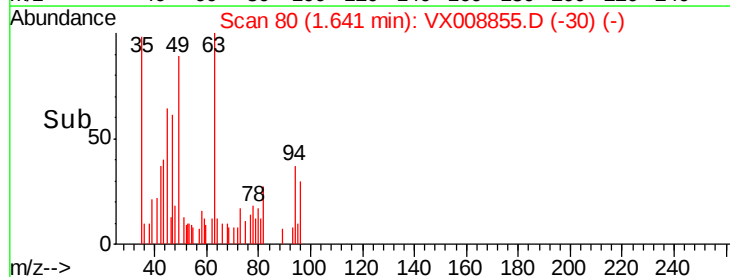
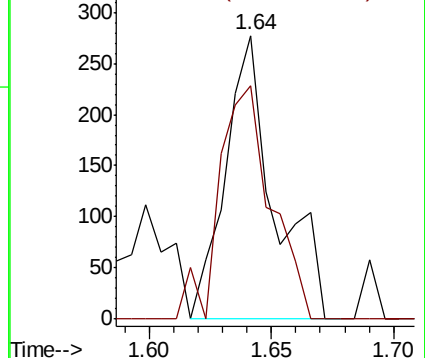
94 100

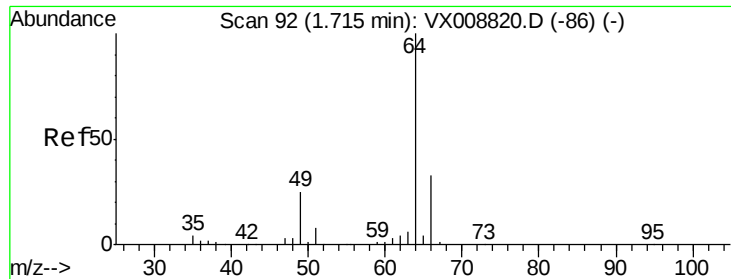
96 82.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

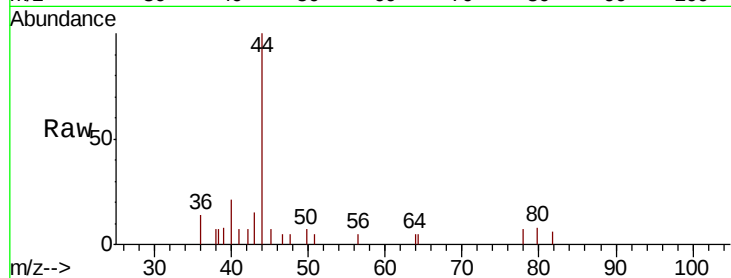
KY062MW128-190409DL

Tgt Ion: 64 Resp: 172

Ion Ratio Lower Upper

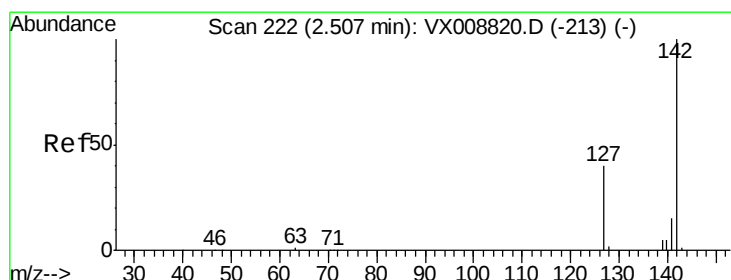
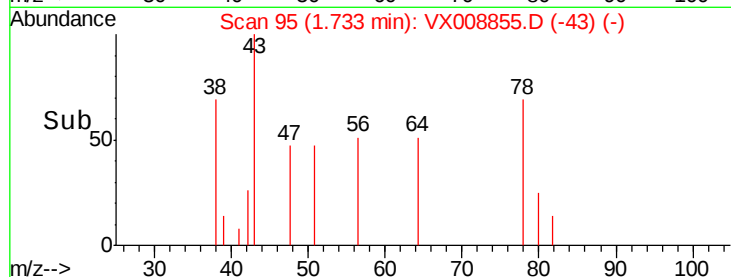
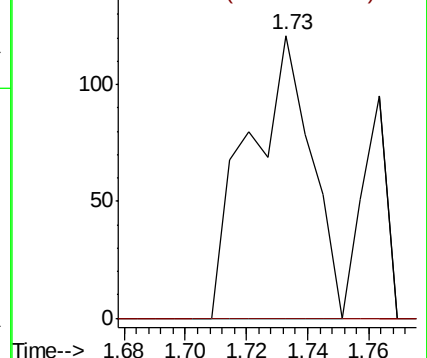
64 100

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



#10

Methyl Iodide

Concen: 4.059 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

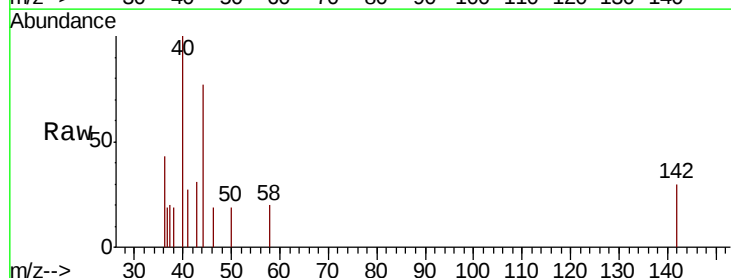
Tgt Ion: 142 Resp: 118

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

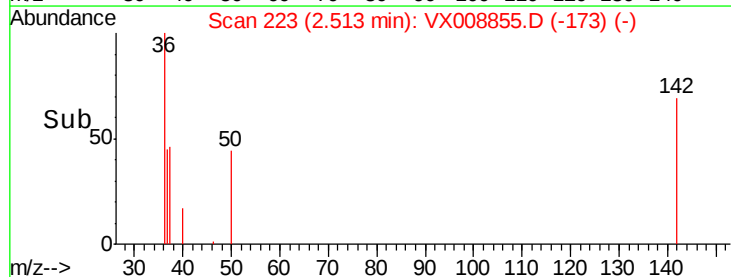
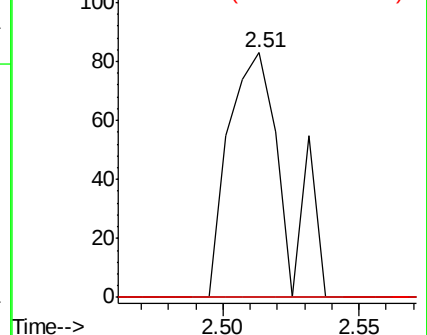
141 0.0 11.4 17.2#

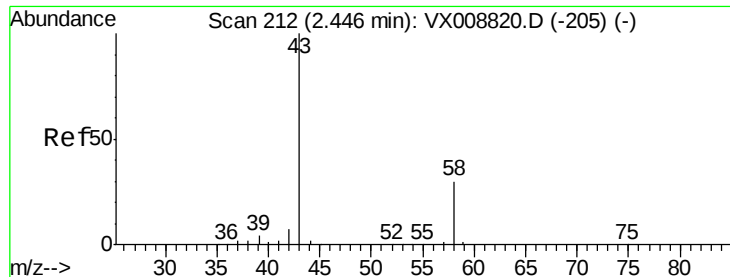


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 0.320 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

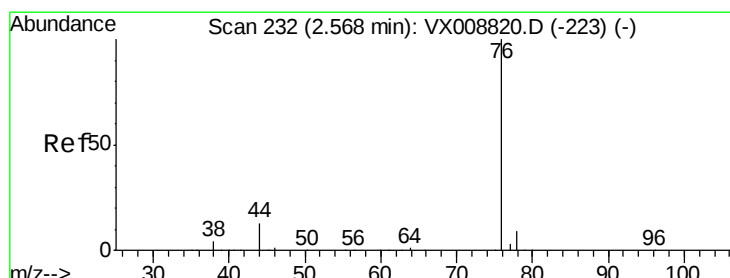
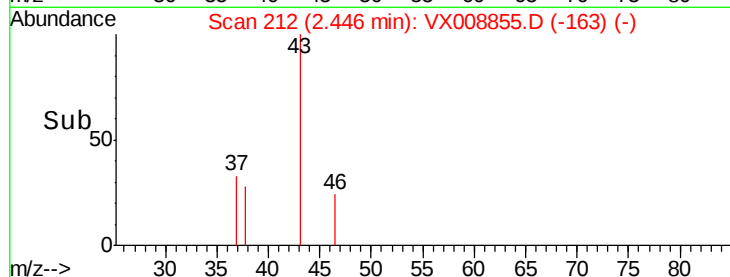
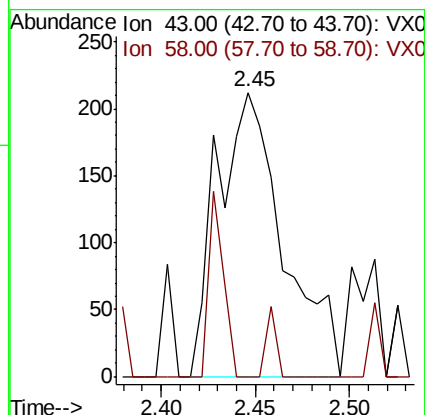
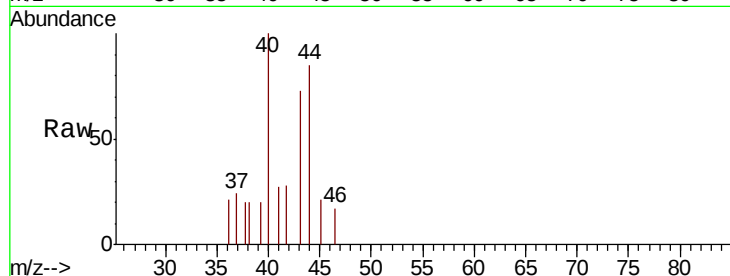
KY062MW128-190409DL

Tgt Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

58 0.0 24.8 37.2#



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008855.D

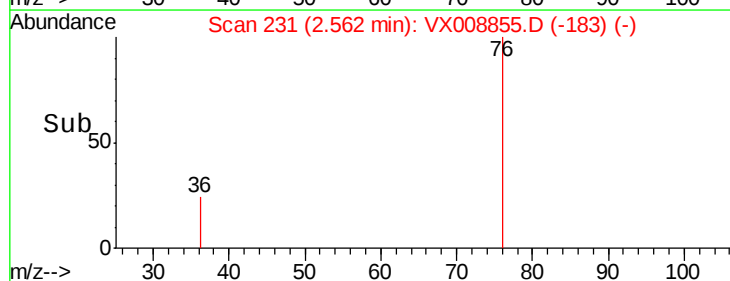
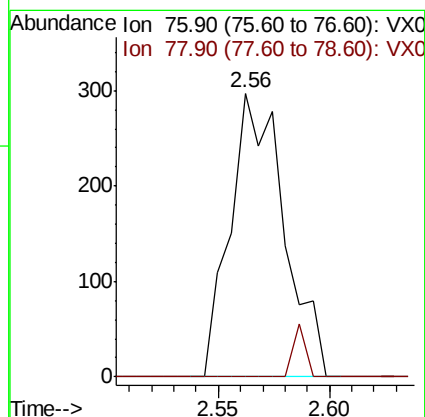
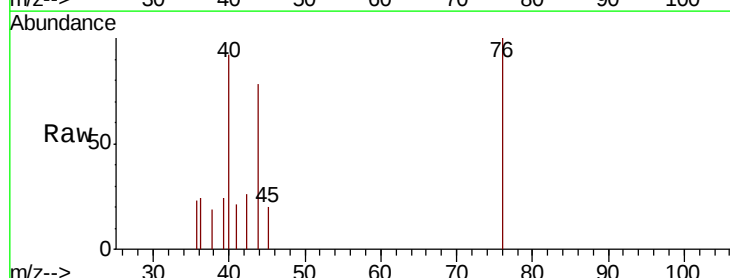
Acq: 11 Apr 2019 16:31

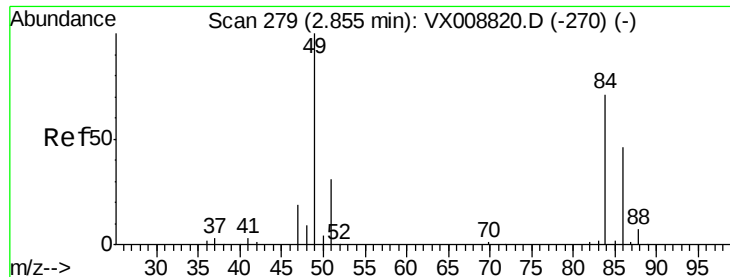
Tgt Ion: 76 Resp: 501

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

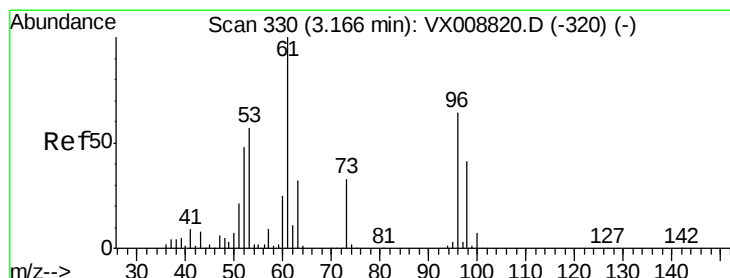
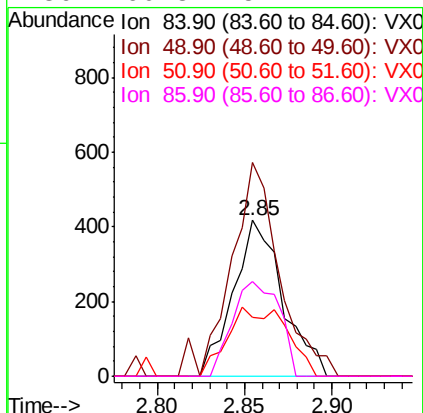
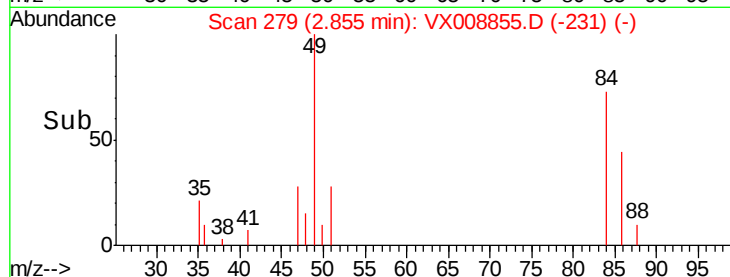
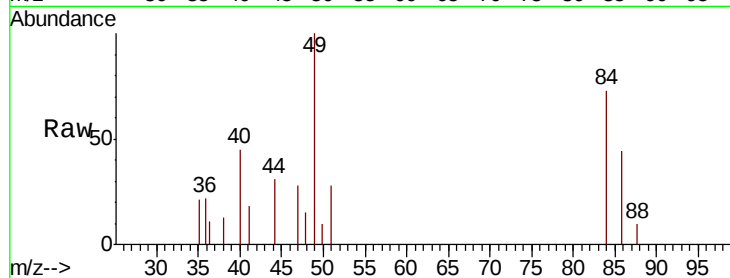




#20
Methylene Chloride
Concen: 0.303 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

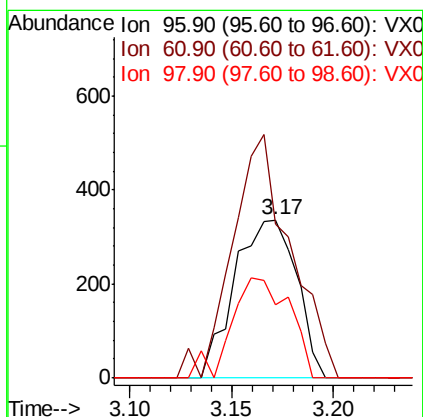
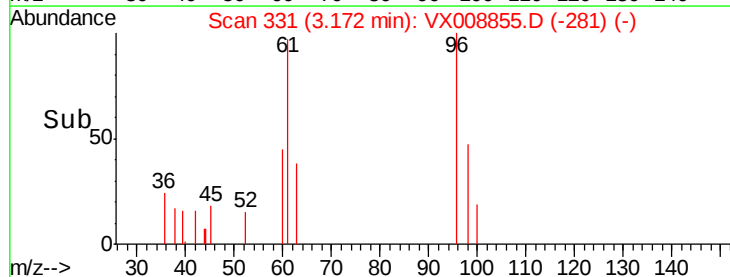
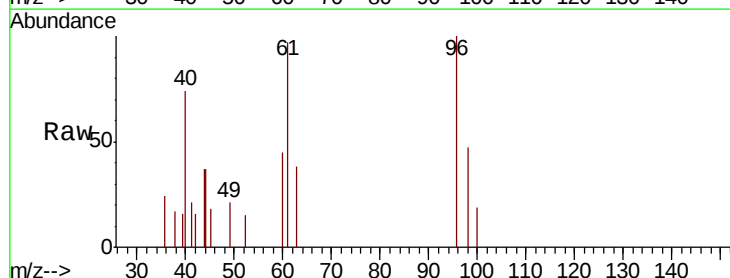
Instrument :
MSVOA_X
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KY062MW128-190409DL

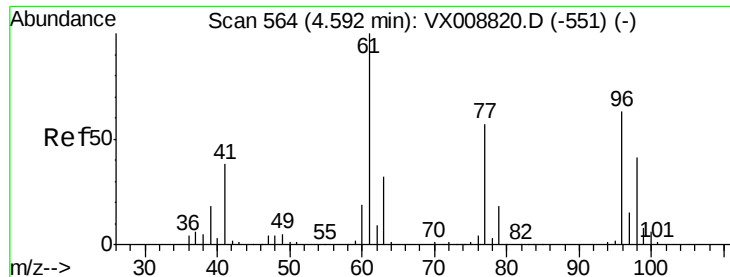
Tgt Ion: 84 Resp: 821
Ion Ratio Lower Upper
84 100
49 136.8 109.7 164.5
51 38.0 33.6 50.4
86 60.8 51.4 77.2



#21
trans-1,2-Dichloroethene
Concen: 0.294 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

Tgt Ion: 96 Resp: 710
Ion Ratio Lower Upper
96 100
61 97.0 132.1 198.1#
98 46.7 52.2 78.2#



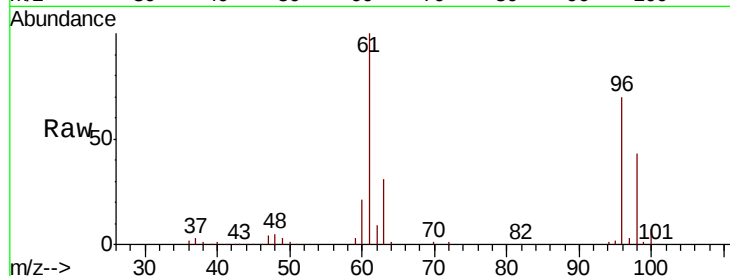


#27

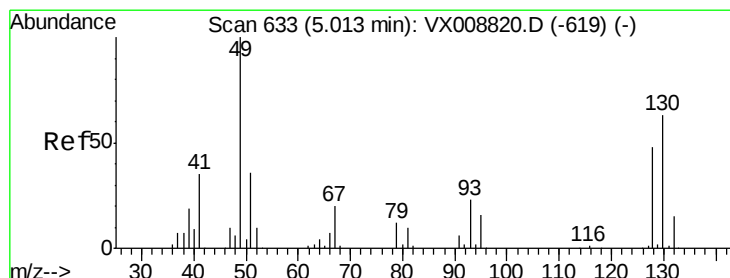
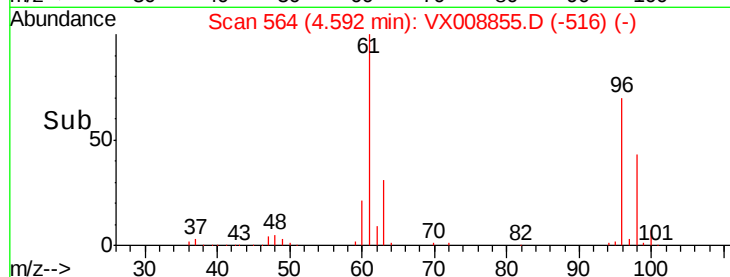
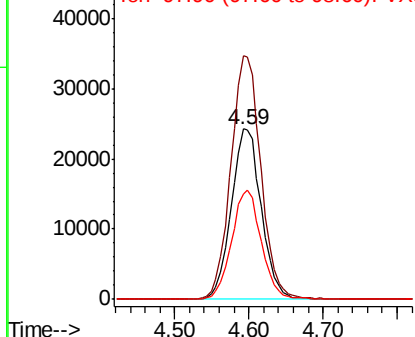
cis-1,2-Dichloroethene
 Concen: 24.688 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX008855.D
 Acq: 11 Apr 2019 16:31

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW128-190409DL

Tgt Ion: 96 Resp: 68432
 Ion Ratio Lower Upper
 96 100
 61 143.2 0.0 327.6
 98 63.6 0.0 128.6



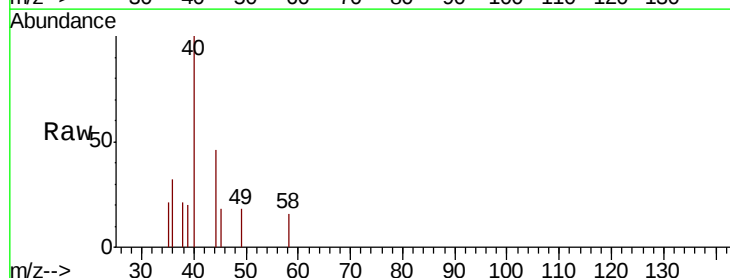
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



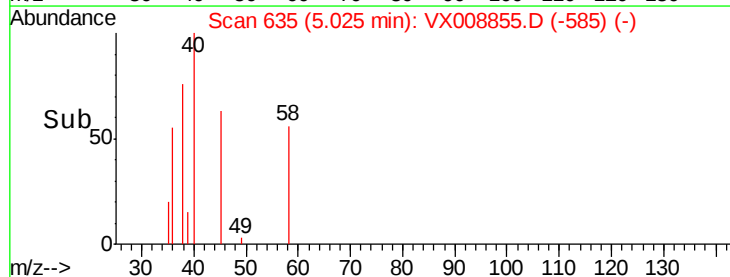
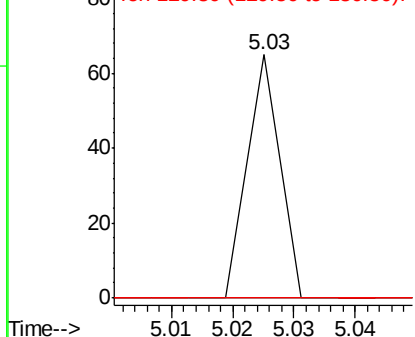
#28

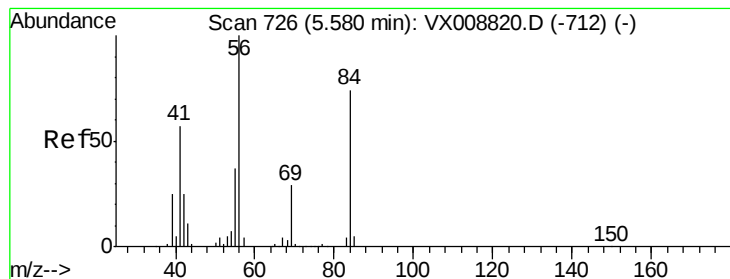
Bromochloromethane
 Concen: Below Cal
 RT: 5.03 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VX008855.D
 Acq: 11 Apr 2019 16:31

Tgt Ion: 49 Resp: 24
 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





#31

Cyclohexane

Concen: 0.860 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

KY062MW128-190409DL

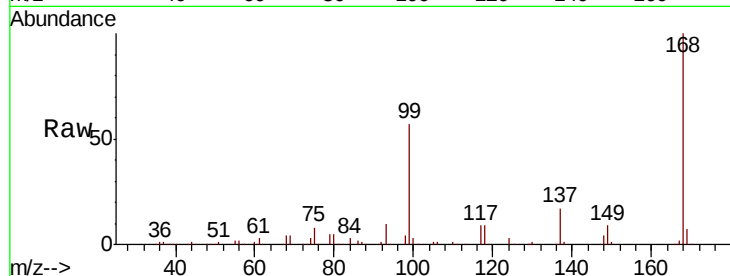
Tgt Ion: 56 Resp: 4178

Ion Ratio Lower Upper

56 100

69 198.3 22.6 33.8#

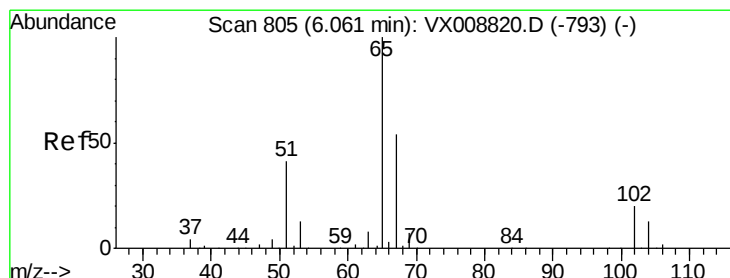
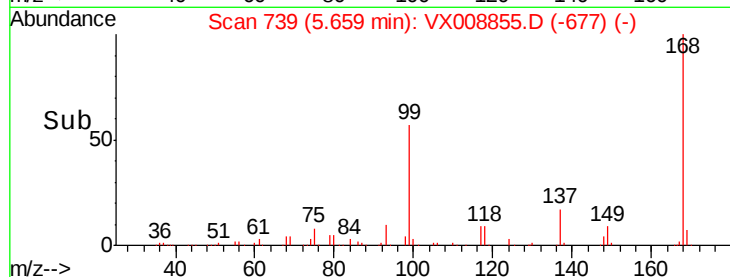
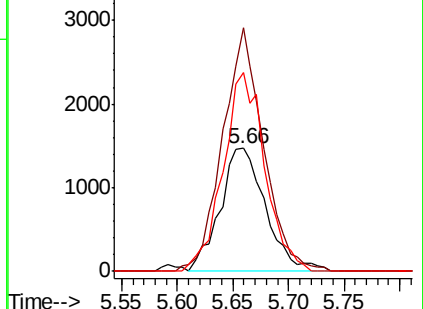
84 161.6 59.3 88.9#



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



#33

1,2-Dichloroethane-d4

Concen: 45.431 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008855.D

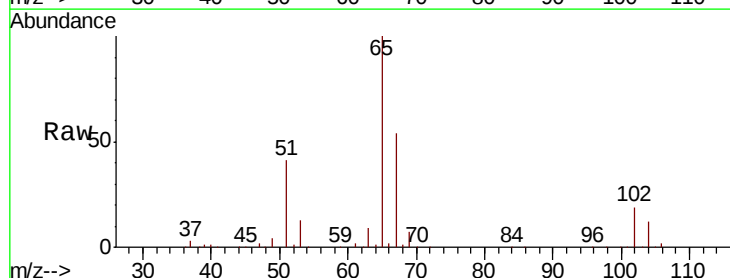
Acq: 11 Apr 2019 16:31

Tgt Ion: 65 Resp: 127752

Ion Ratio Lower Upper

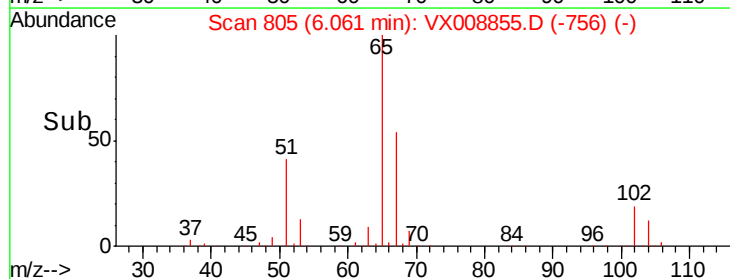
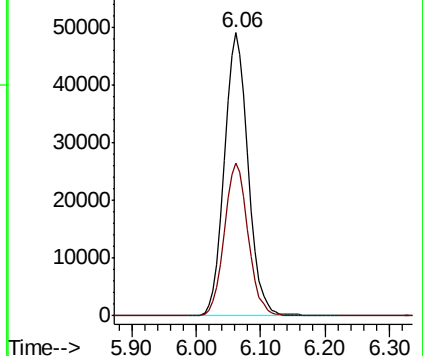
65 100

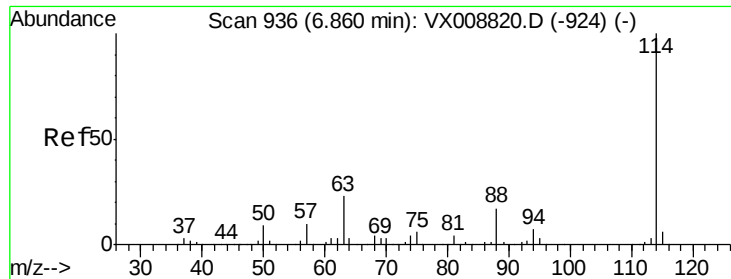
67 54.1 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

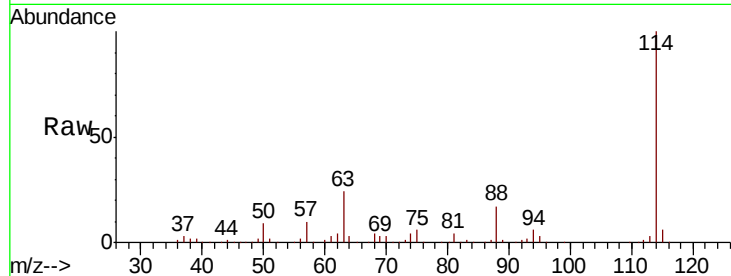




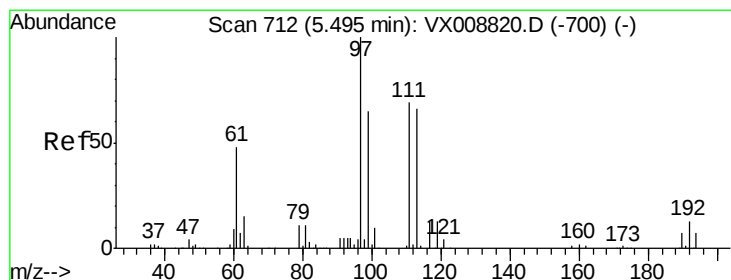
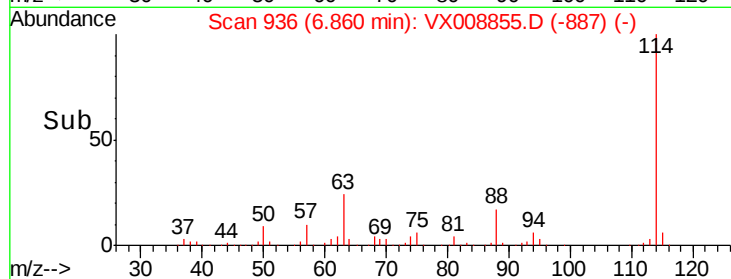
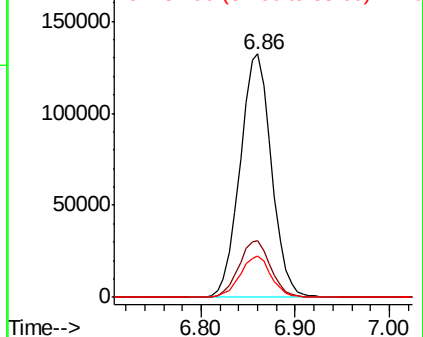
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008855.D
 Acq: 11 Apr 2019 16:31

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW128-190409DL

Tgt Ion:114 Resp: 309240
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 47.2
 88 16.7 0.0 34.0

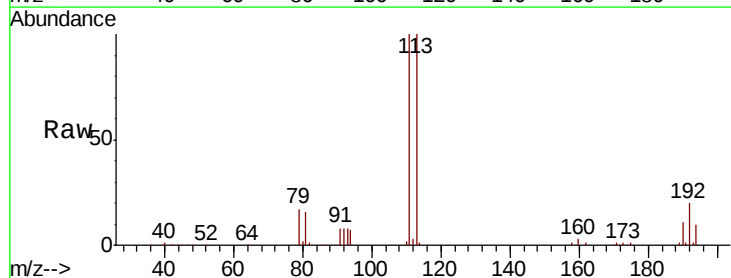


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

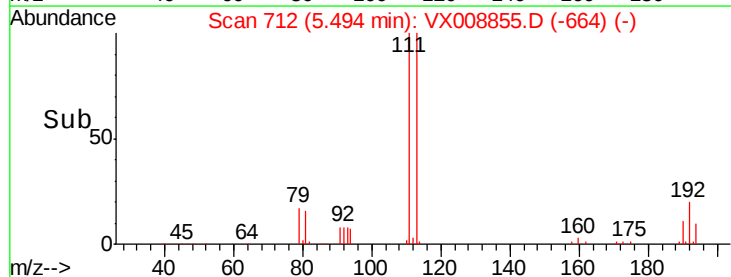
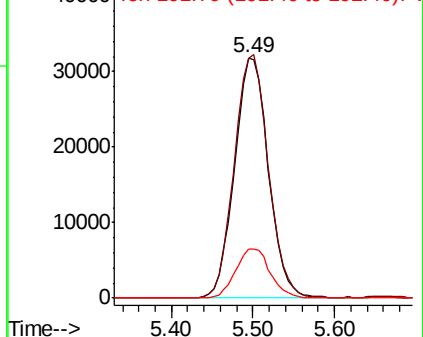


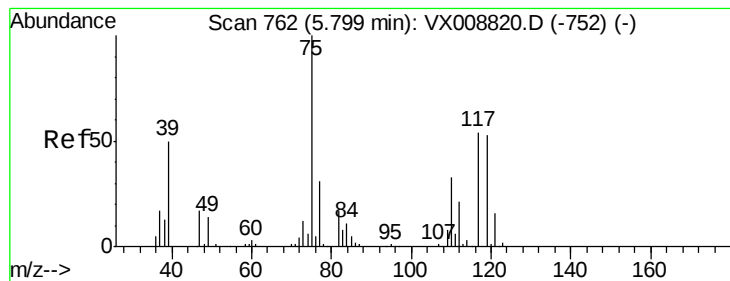
#35
 Dibromofluoromethane
 Concen: 46.300 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX008855.D
 Acq: 11 Apr 2019 16:31

Tgt Ion:113 Resp: 91543
 Ion Ratio Lower Upper
 113 100
 111 102.2 83.4 125.2
 192 20.8 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: 4.513 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

KY062MW128-190409DL

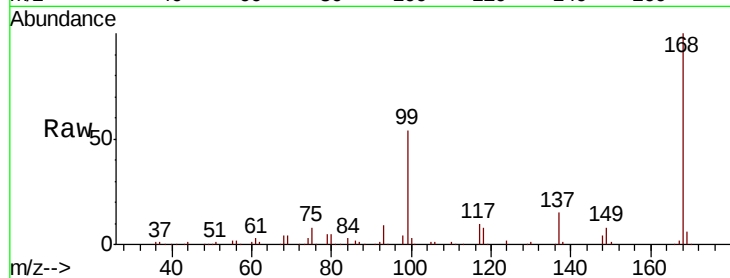
Tgt Ion: 75 Resp: 15255

Ion Ratio Lower Upper

75 100

110 8.8 16.4 49.2#

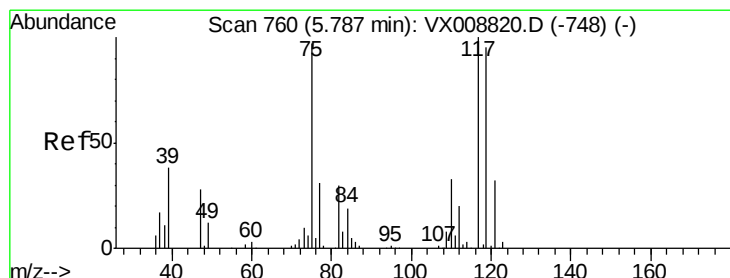
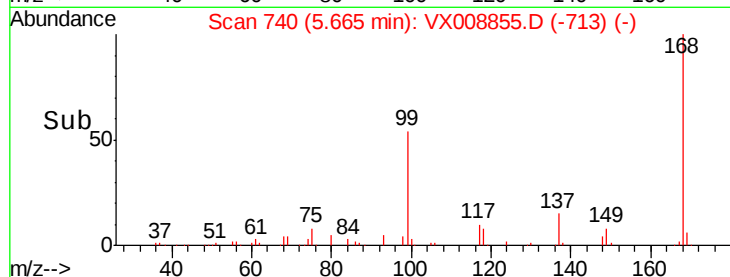
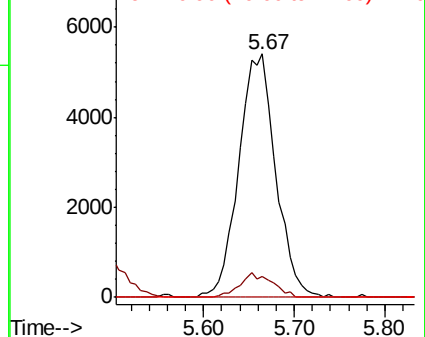
77 0.0 24.7 37.1#



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: 6.449 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

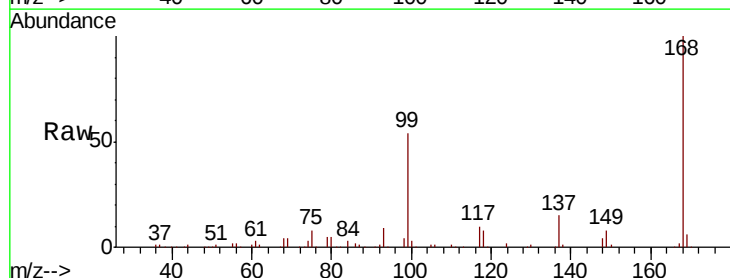
Tgt Ion: 117 Resp: 18042

Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.6#

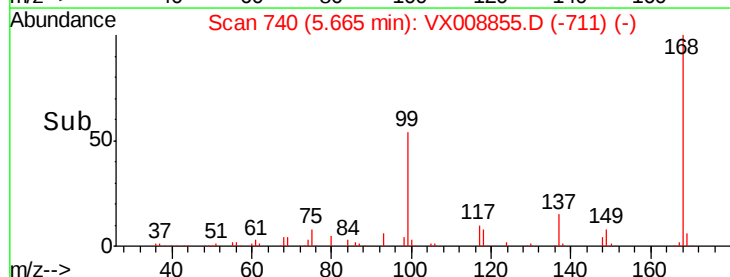
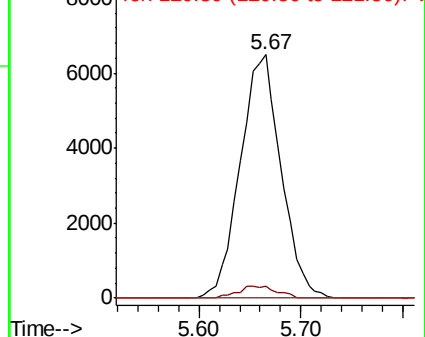
121 0.0 24.3 36.5#

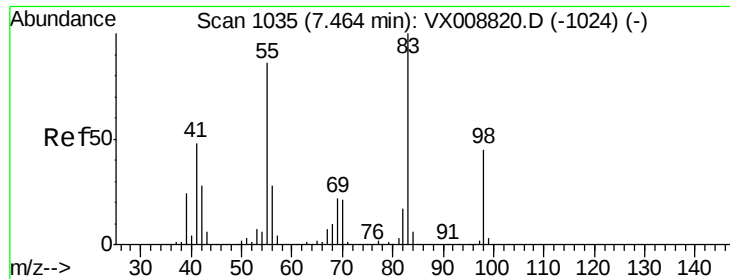


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

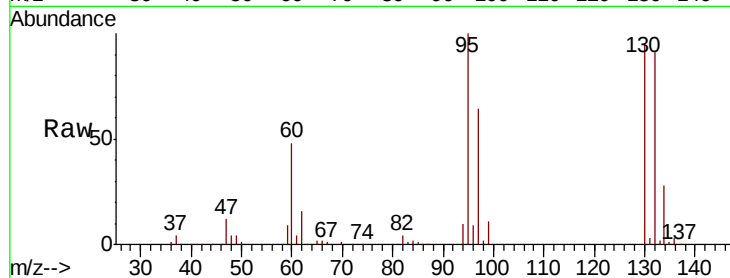




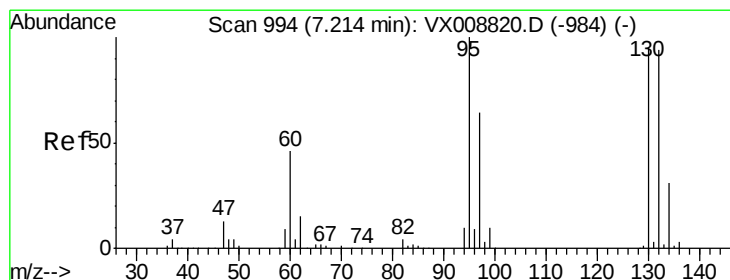
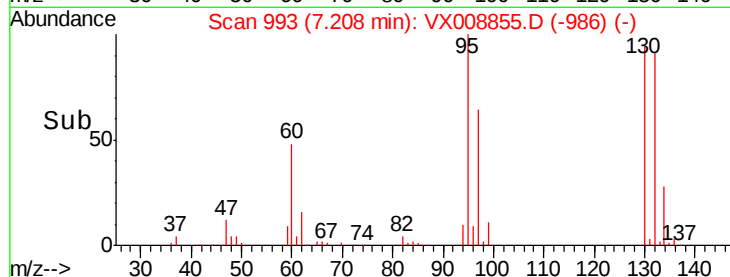
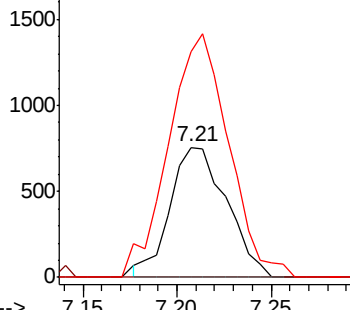
#39
Methylcyclohexane
Concen: 0.377 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.26 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

Instrument :
MSVOA_X
ClientSampleId :
KY062MW128-190409DL

Tgt Ion: 83 Resp: 1575
Ion Ratio Lower Upper
83 100
55 0.0 69.0 103.6#
98 162.7 34.4 51.6#

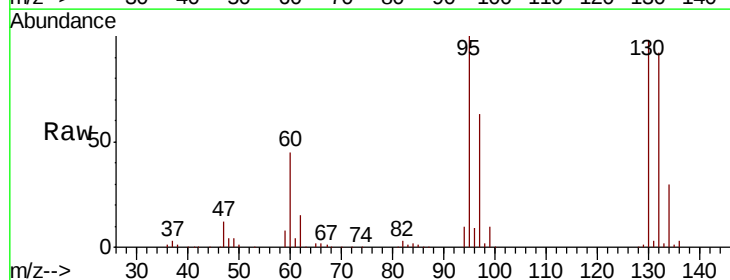


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

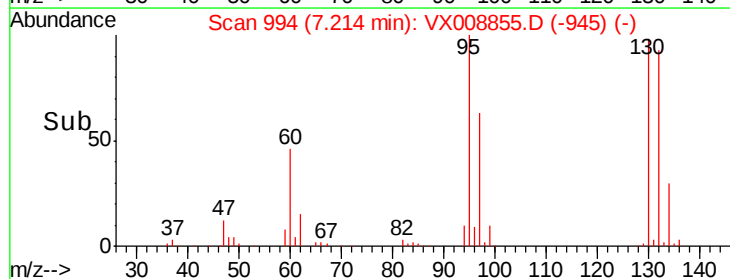
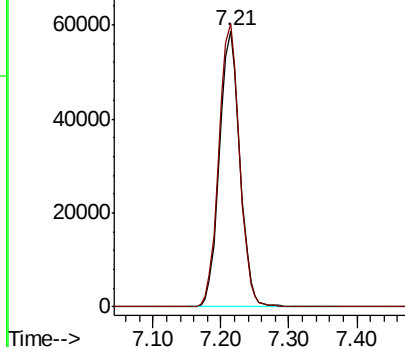


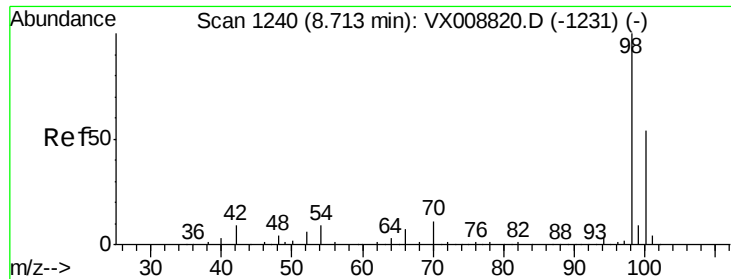
#44
Trichloroethene
Concen: 52.312 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

Tgt Ion: 130 Resp: 122694
Ion Ratio Lower Upper
130 100
95 102.5 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

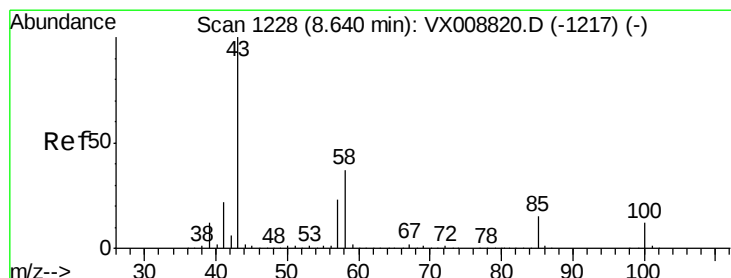
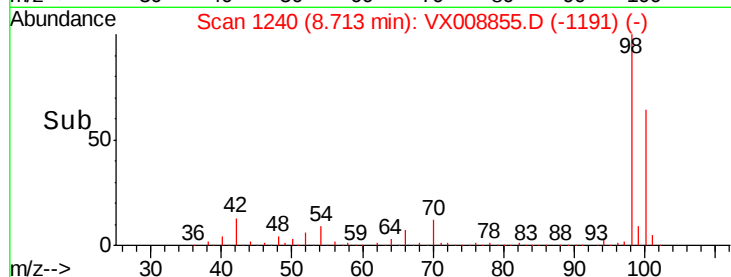
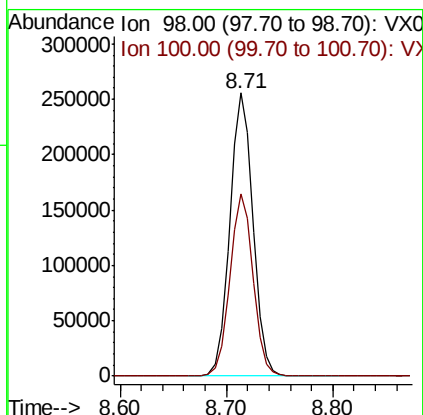
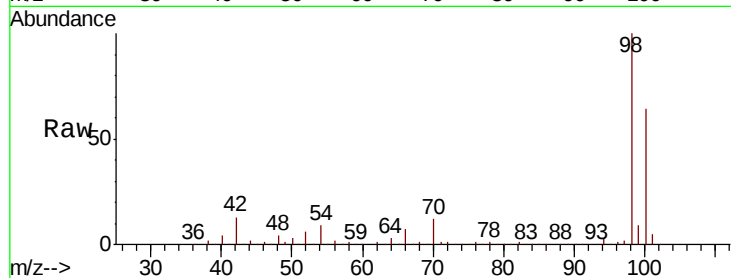




#50
Toluene-d8
Concen: 49.607 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

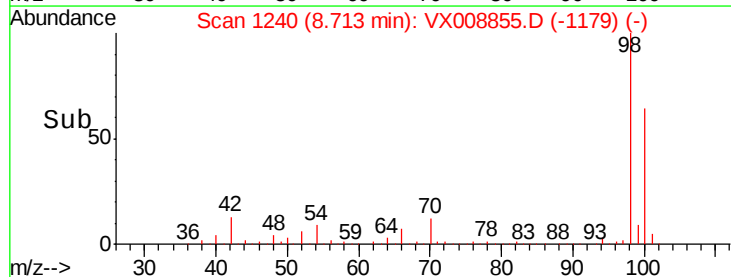
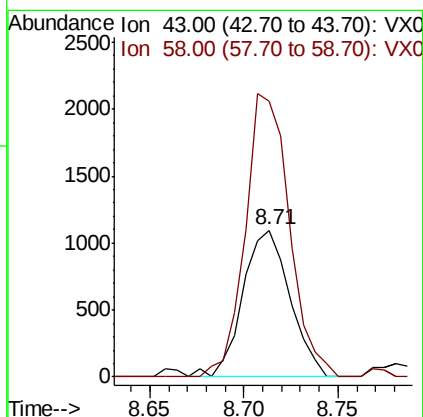
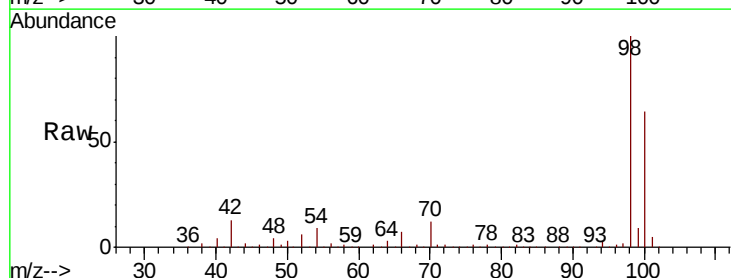
Instrument :
MSVOA_X
ClientSampleId :
KY062MW128-190409DL

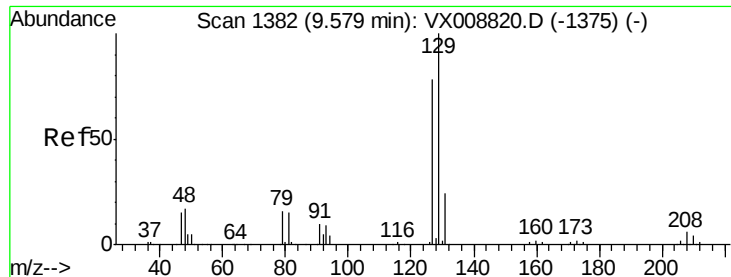
Tgt Ion: 98 Resp: 390530
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 0.419 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.07 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

Tgt Ion: 43 Resp: 1906
Ion Ratio Lower Upper
43 100
58 180.1 29.5 44.3#





#60

Dibromochloromethane

Concen: 15.861 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

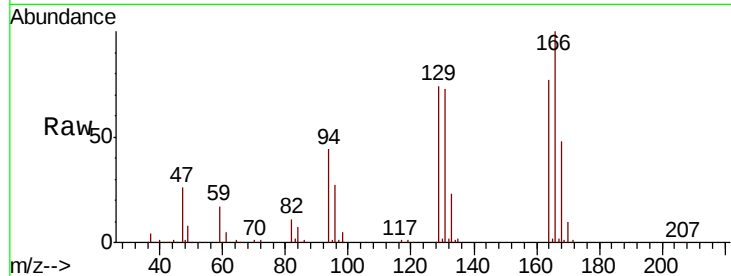
KY062MW128-190409DL

Tgt Ion:129 Resp: 35619

Ion Ratio Lower Upper

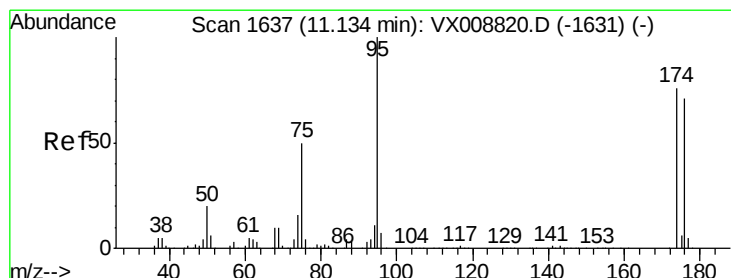
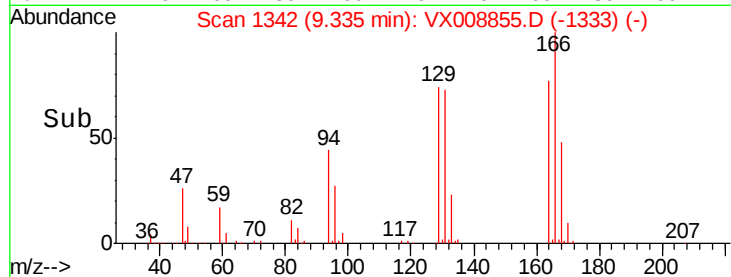
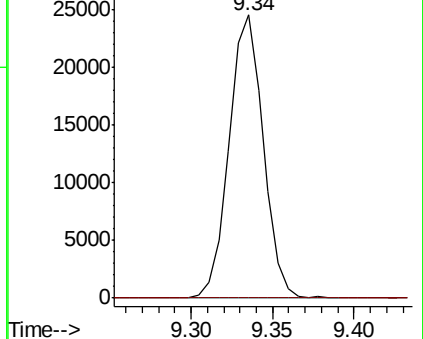
129 100

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



#62

4-Bromofluorobenzene

Concen: 47.627 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

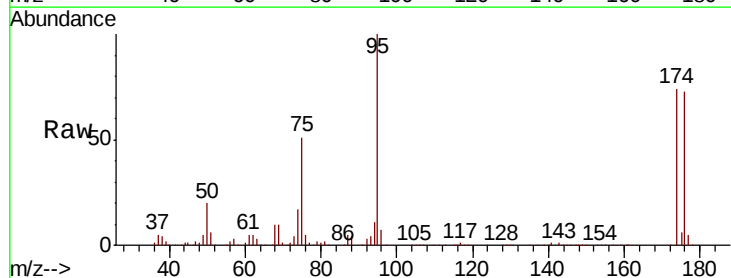
Tgt Ion: 95 Resp: 132961

Ion Ratio Lower Upper

95 100

174 78.4 0.0 151.8

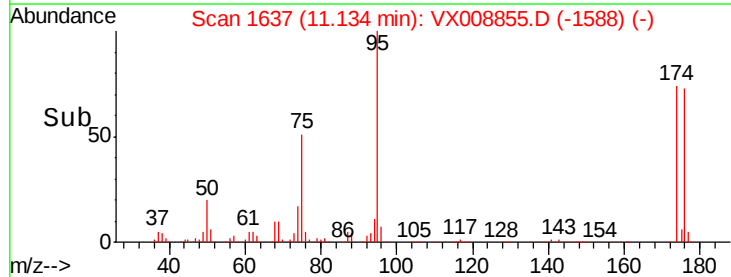
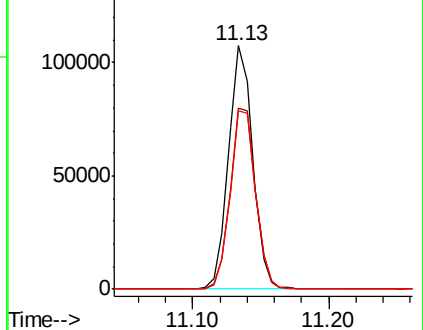
176 76.8 0.0 145.8

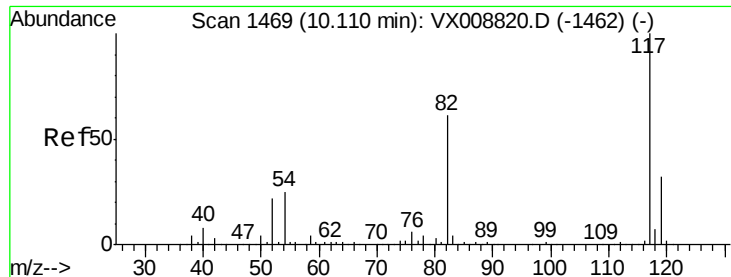


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

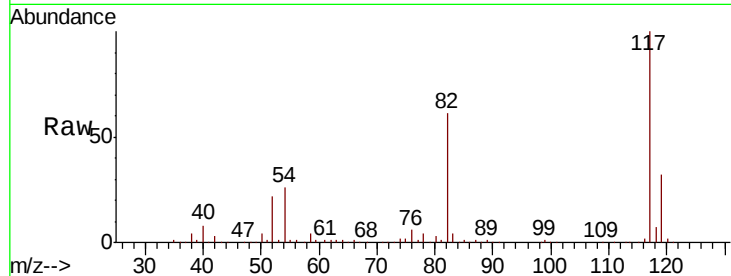




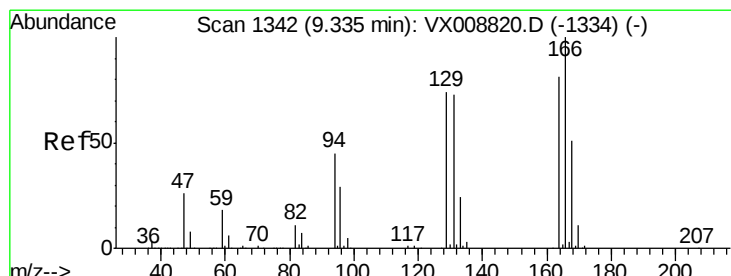
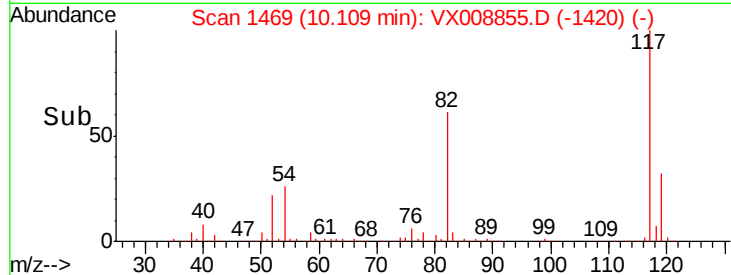
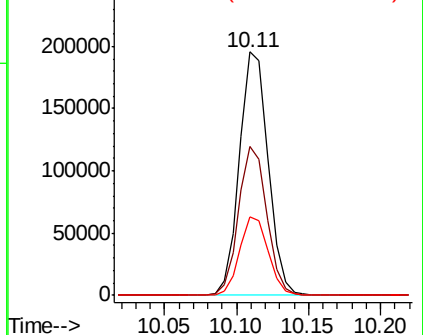
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

Instrument :
MSVOA_X
ClientSampleId :
KY062MW128-190409DL

Tgt Ion:117 Resp: 270915
Ion Ratio Lower Upper
117 100
82 61.3 49.6 74.4
119 32.4 25.0 37.4



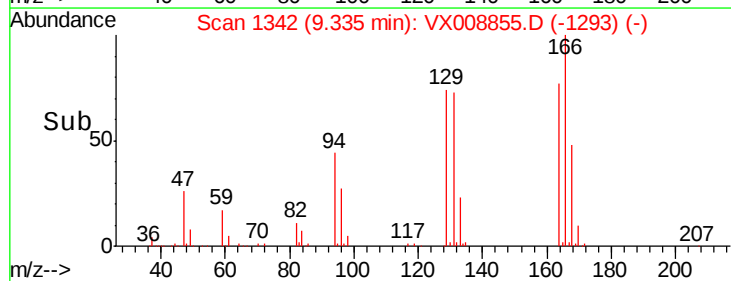
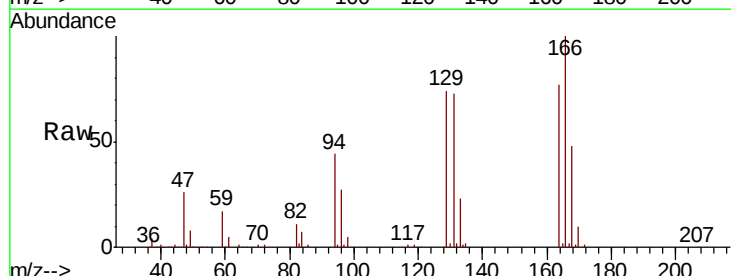
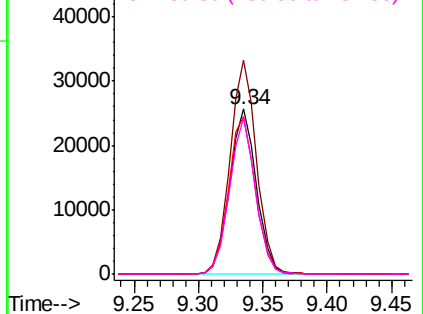
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

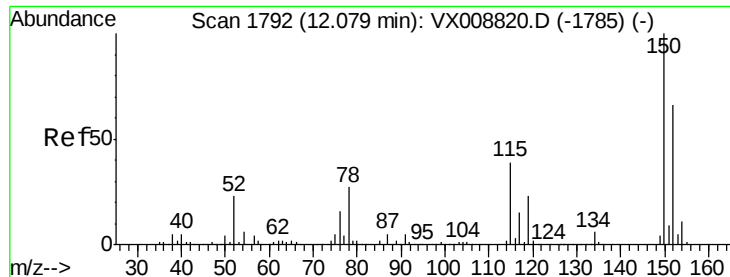


#64
Tetrachloroethene
Concen: 18.496 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008855.D
Acq: 11 Apr 2019 16:31

Tgt Ion:164 Resp: 37125
Ion Ratio Lower Upper
164 100
166 129.8 101.0 151.6
129 95.7 75.8 113.8
131 94.8 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: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

KY062MW128-190409DL

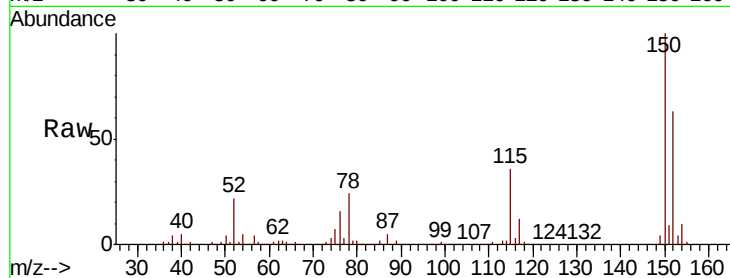
Tgt Ion:152 Resp: 119166

Ion Ratio Lower Upper

152 100

115 59.0 43.5 130.5

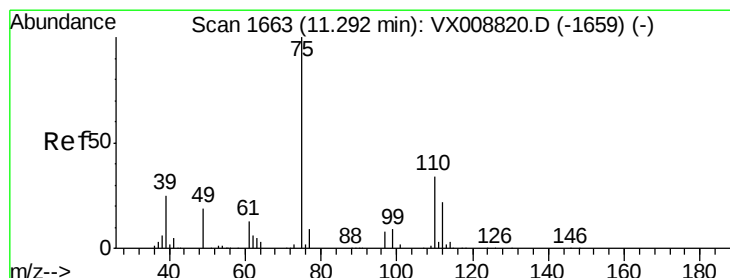
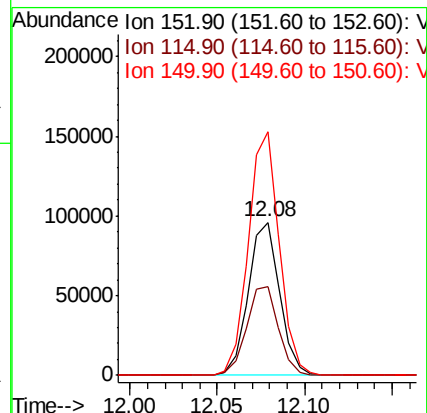
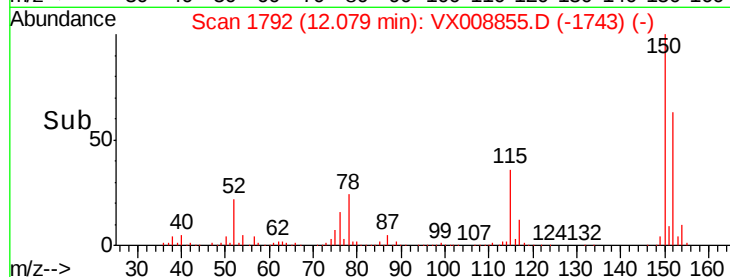
150 157.5 0.0 348.8



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: 20.817 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008855.D

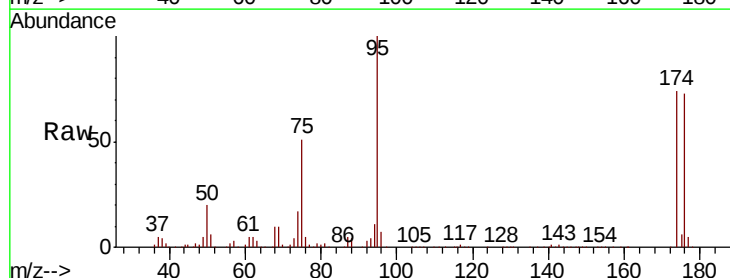
Acq: 11 Apr 2019 16:31

Tgt Ion: 75 Resp: 68148

Ion Ratio Lower Upper

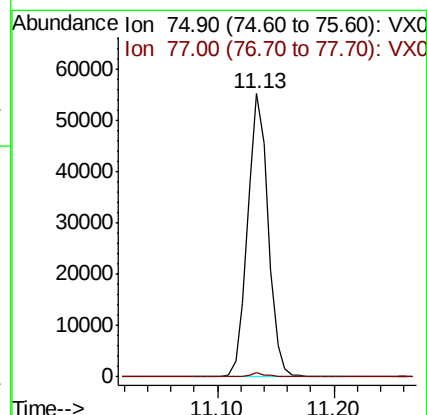
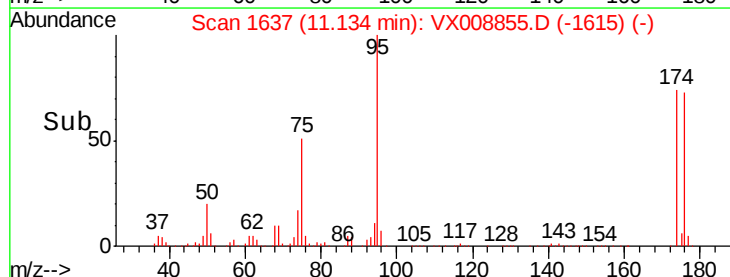
75 100

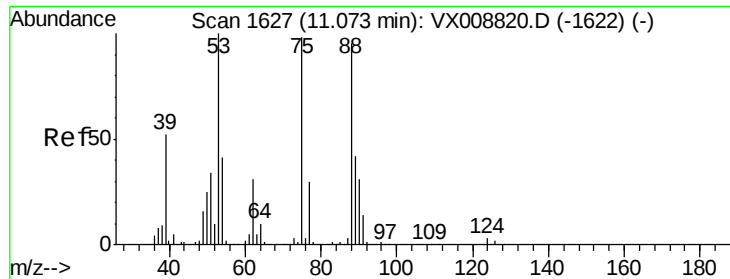
77 1.2 22.3 66.8#



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: 57.384 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008855.D

Acq: 11 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

KY062MW128-190409DL

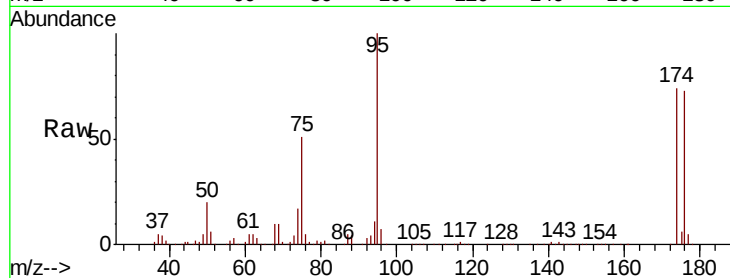
Tgt Ion: 75 Resp: 68148

Ion Ratio Lower Upper

75 100

53 0.0 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

