

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
 Data File : VX010955.D
 Acq On : 18 Jul 2019 13:49
 Operator : JC/SP
 Sample : K3834-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-7

Quant Time: Jul 19 01:32:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	217212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	344833	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	316996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147435	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	117035	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	5.50	113	105492	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
50) Toluene-d8	8.71	98	415083	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.13	95	142727	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	

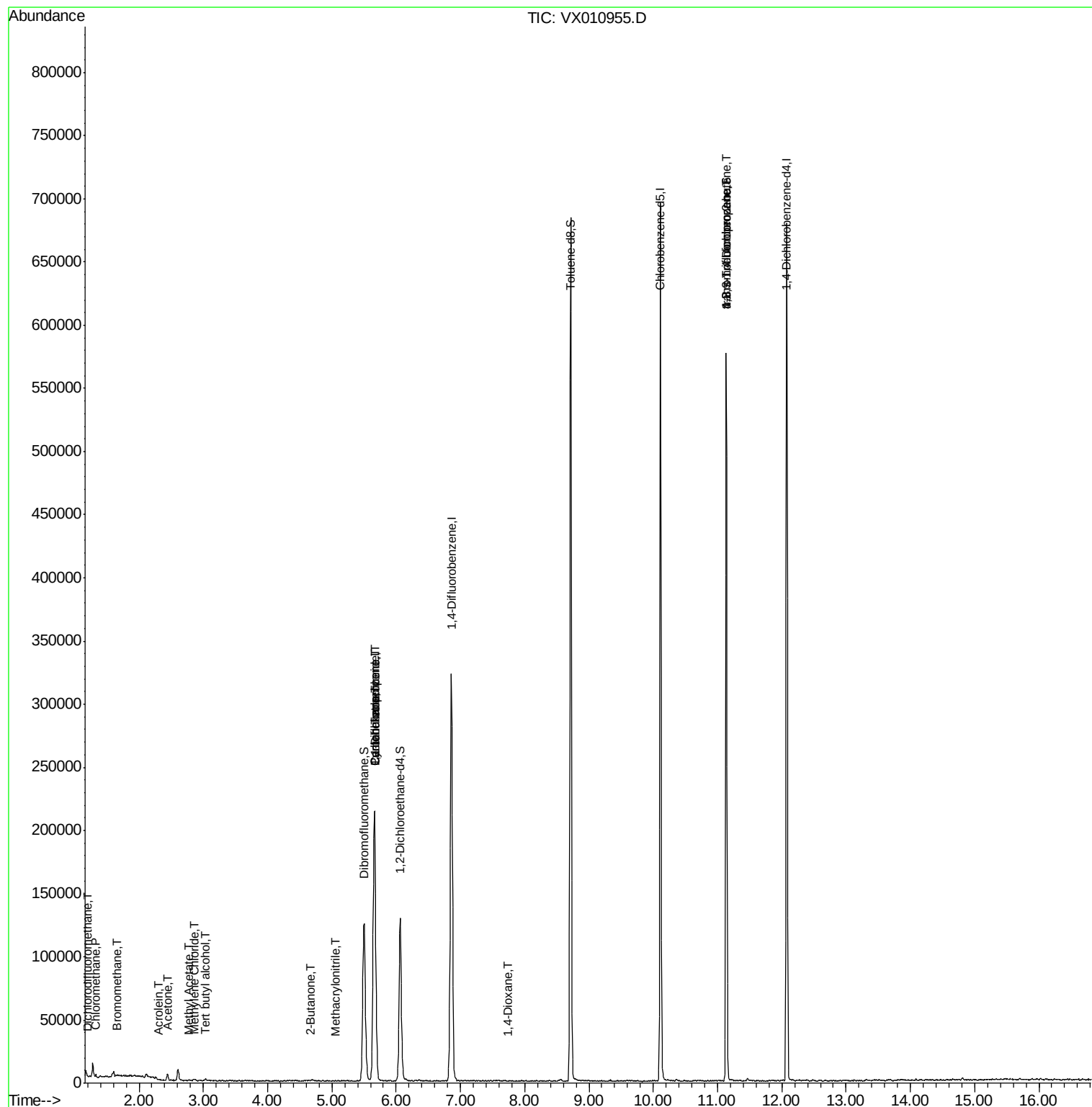
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	93	0.586	ug/l #	43
3) Chloromethane	1.33	50	1454	0.728	ug/l	96
5) Bromomethane	1.66	94	659	0.574	ug/l	84
11) Tert butyl alcohol	3.04	59	1374	2.553	ug/l	95
13) Acrolein	2.31	56	170	0.547	ug/l #	15
16) Acetone	2.45	43	4850	4.647	ug/l	92
18) Methyl Acetate	2.78	43	564	0.237	ug/l #	73
20) Methylene Chloride	2.85	84	509	0.230	ug/l #	72
25) 2-Butanone	4.67	43	410	0.274	ug/l #	68
31) Cyclohexane	5.66	56	4113	1.311	ug/l #	8
36) 1,1-Dichloropropene	5.66	75	14219	5.020	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20737	7.026	ug/l #	17
41) Methacrylonitrile	5.06	41	363	0.220	ug/l #	50
49) 1,4-Dioxane	7.73	88	40	0.616	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	71778	26.979	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	71778	66.891	ug/l #	11

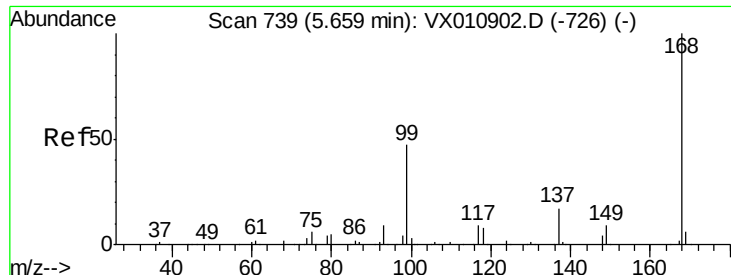
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

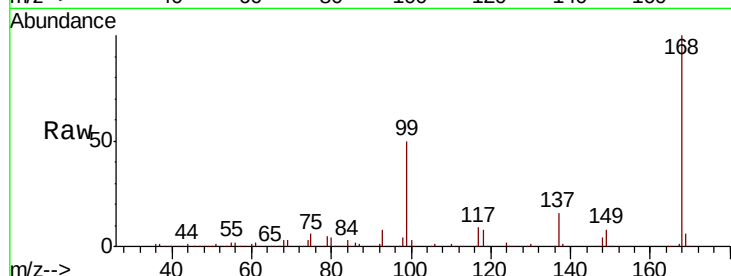
TW-7

Tot Ion:168 Resp: 217212

Ion Ratio Lower Upper

168 100

99 49.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

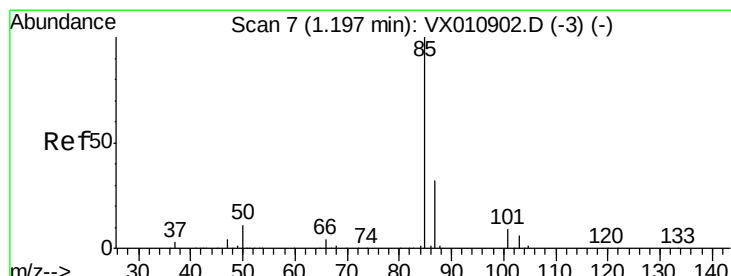
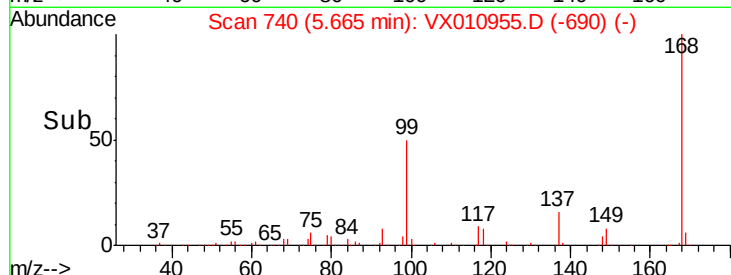
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.586 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX010955.D

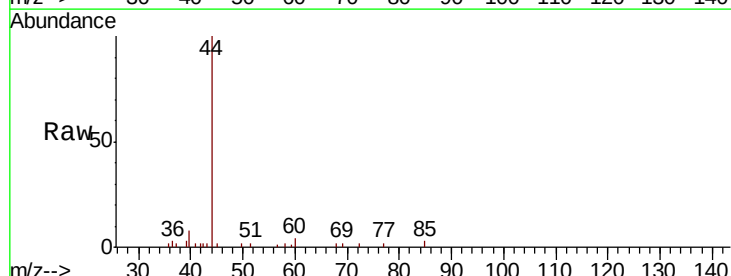
Acq: 18 Jul 2019 13:49

Tgt Ion: 85 Resp: 93

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

120

100

80

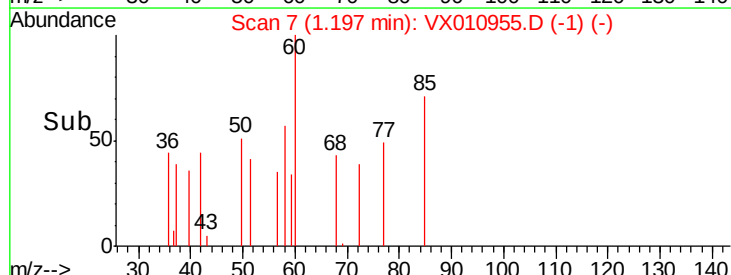
60

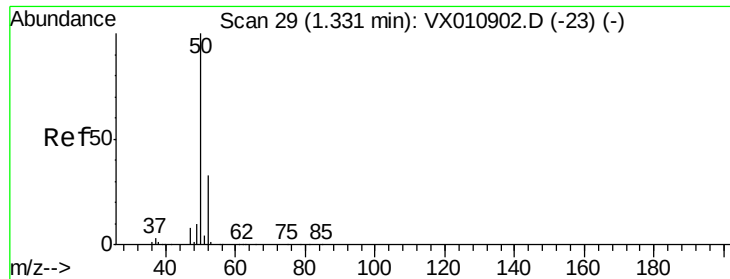
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.728 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

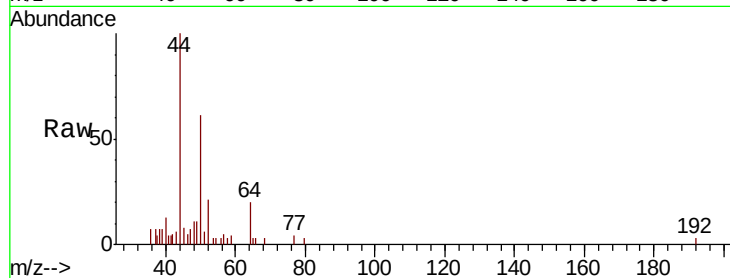
TW-7

Tot Ion: 50 Resp: 1454

Ion Ratio Lower Upper

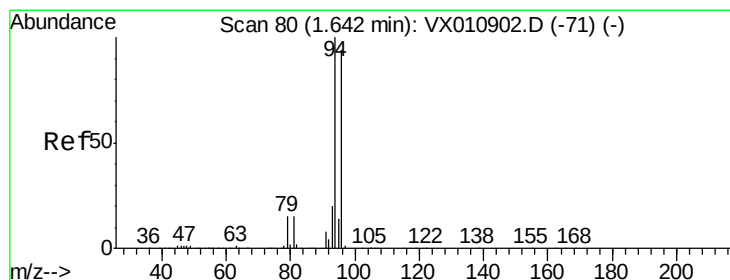
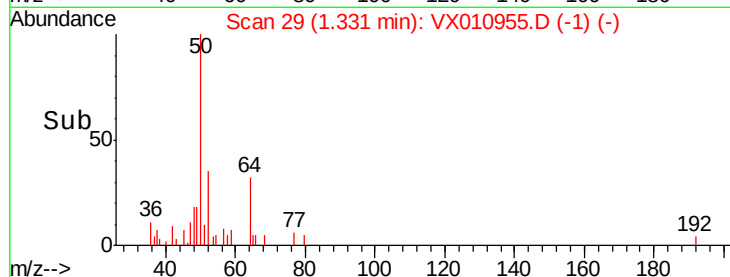
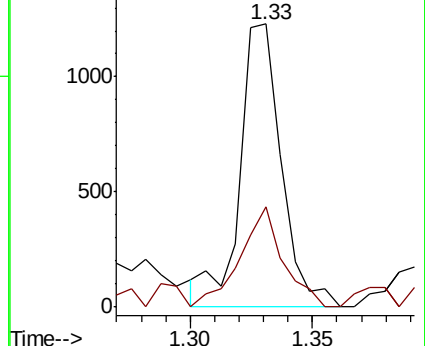
50 100

52 35.2 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.574 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010955.D

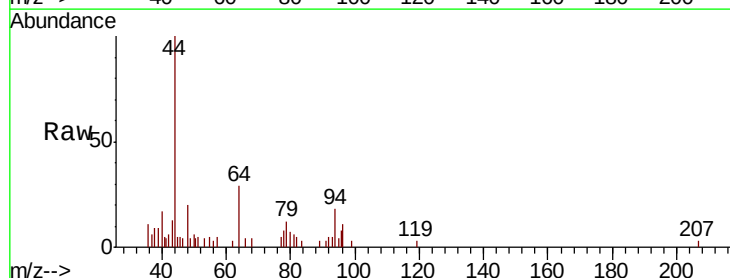
Acq: 18 Jul 2019 13:49

Tgt Ion: 94 Resp: 659

Ion Ratio Lower Upper

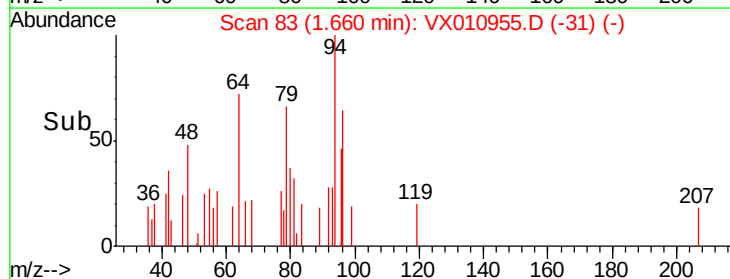
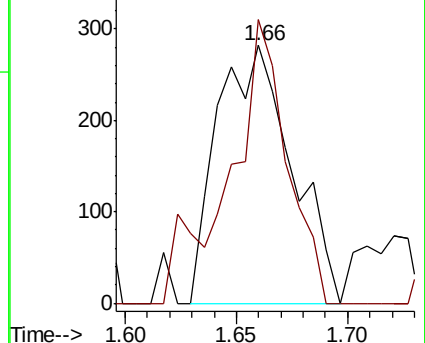
94 100

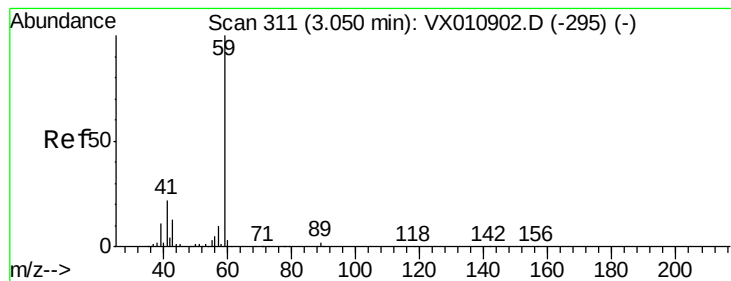
96 109.9 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#11

Tert butyl alcohol

Concen: 2.553 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

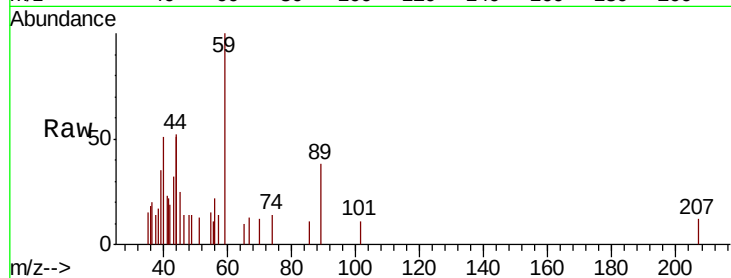
TW-7

Tot Ion: 59 Resp: 1374

Ion Ratio Lower Upper

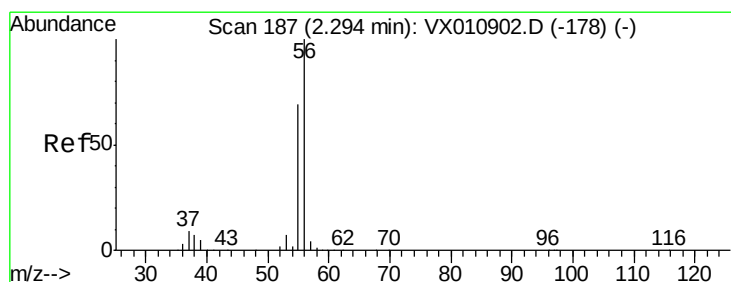
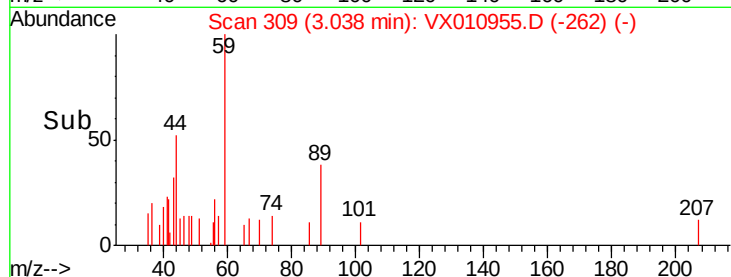
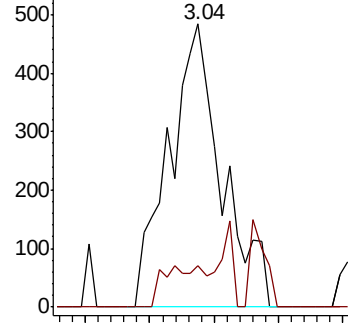
59 100

57 8.0 7.9 11.9



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.547 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX010955.D

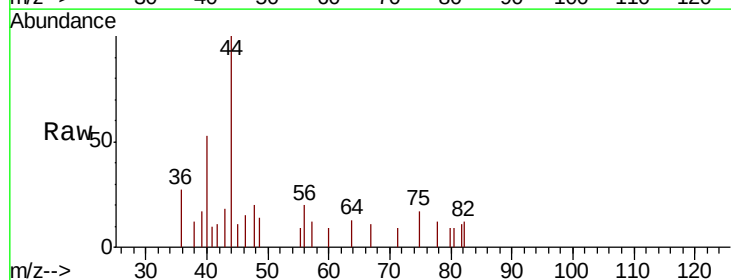
Acq: 18 Jul 2019 13:49

Tgt Ion: 56 Resp: 170

Ion Ratio Lower Upper

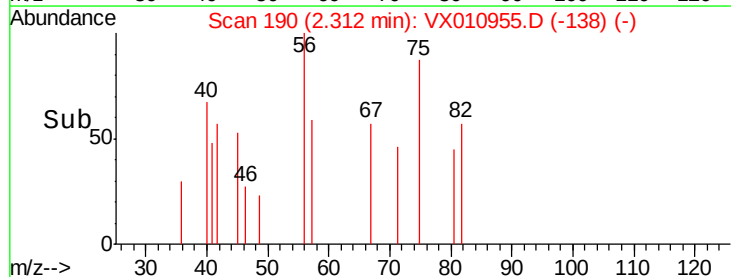
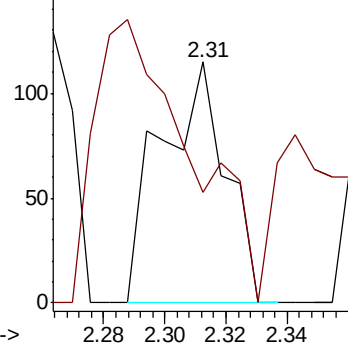
56 100

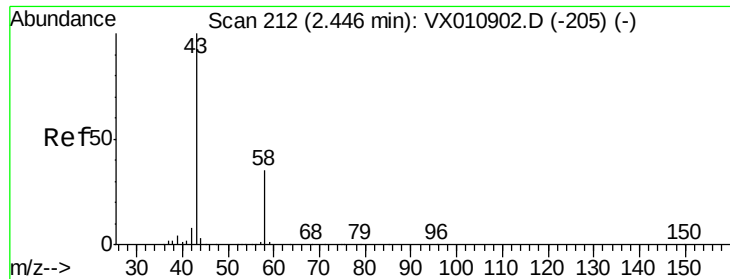
55 0.0 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.647 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

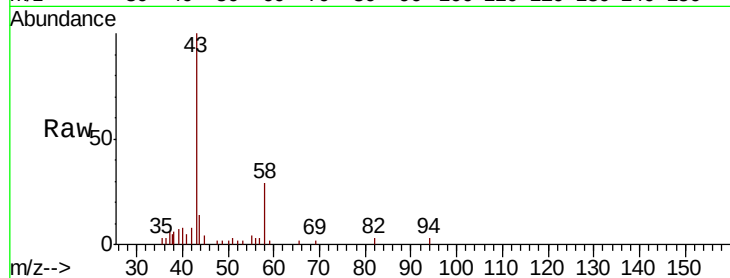
TW-7

Tot Ion: 43 Resp: 4850

Ion Ratio Lower Upper

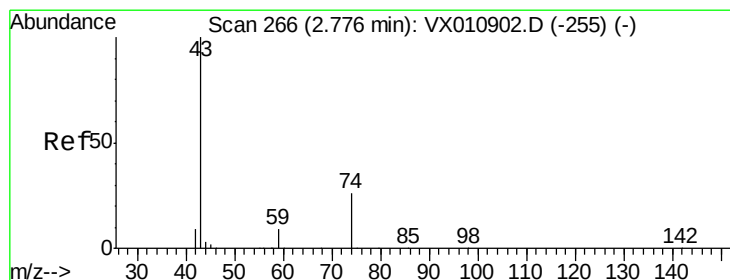
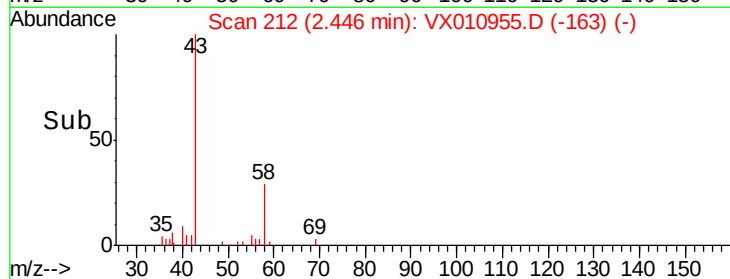
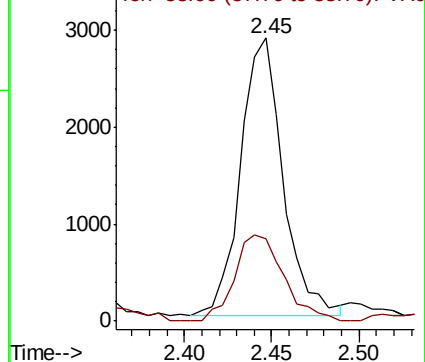
43 100

58 29.7 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.237 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX010955.D

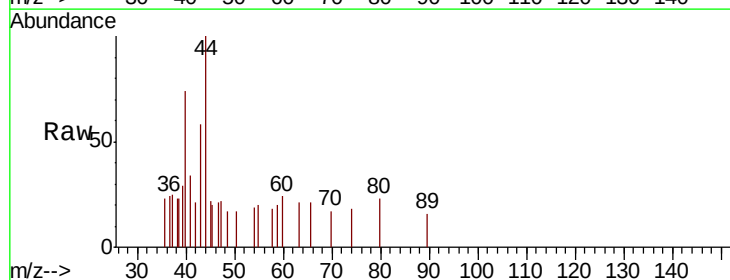
Acq: 18 Jul 2019 13:49

Tgt Ion: 43 Resp: 564

Ion Ratio Lower Upper

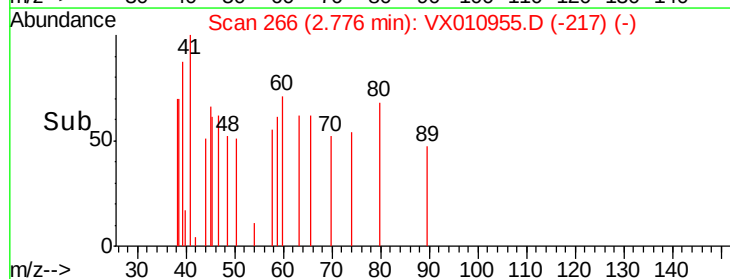
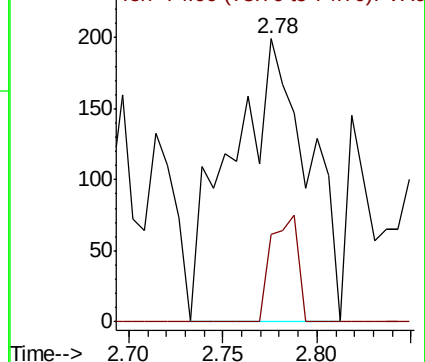
43 100

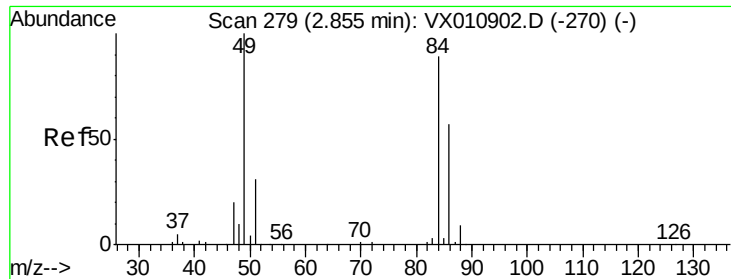
74 13.1 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methvlene Chloride

Concen: 0.230 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

TW-7

Tot Ion: 84 Resp: 509

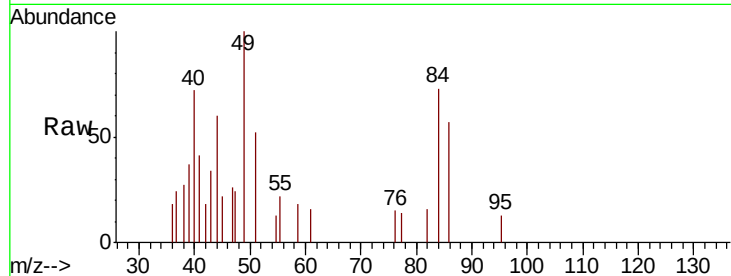
Ion Ratio Lower Upper

84 100

49 137.7 89.9 134.9#

51 71.1 27.8 41.6#

86 78.2 51.8 77.6#

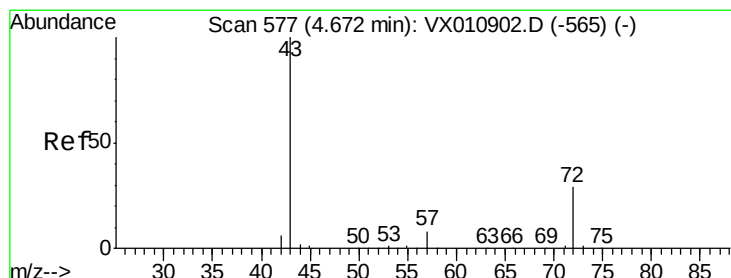
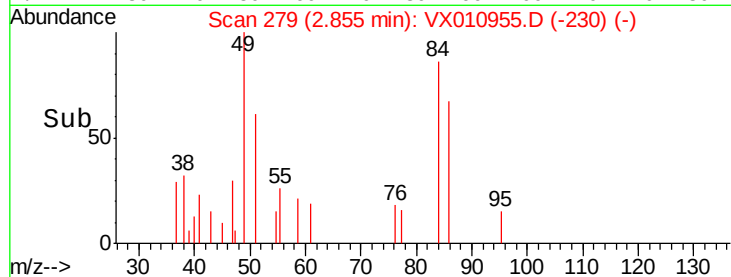
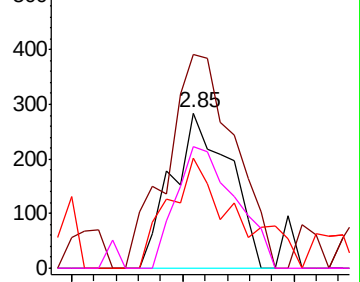


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.274 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.00 min

Lab File: VX010955.D

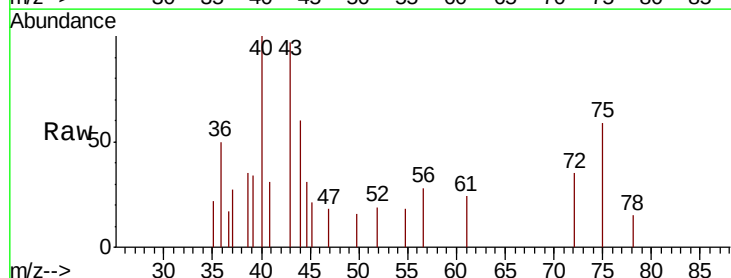
Acq: 18 Jul 2019 13:49

Tgt Ion: 43 Resp: 410

Ion Ratio Lower Upper

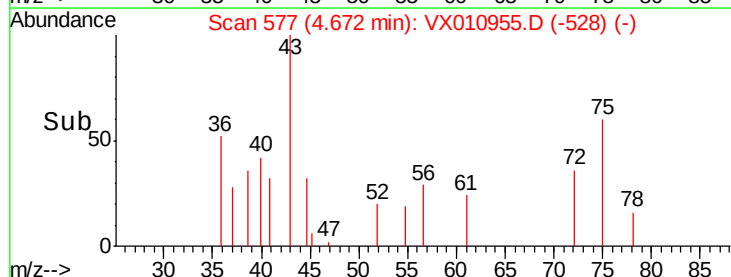
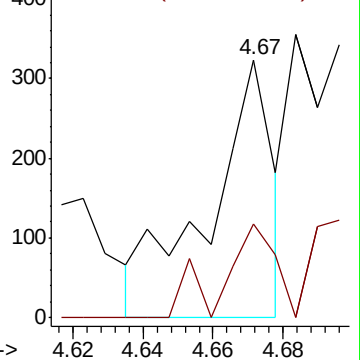
43 100

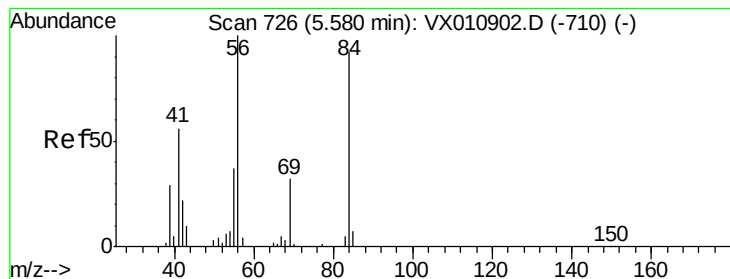
72 45.7 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 1.311 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

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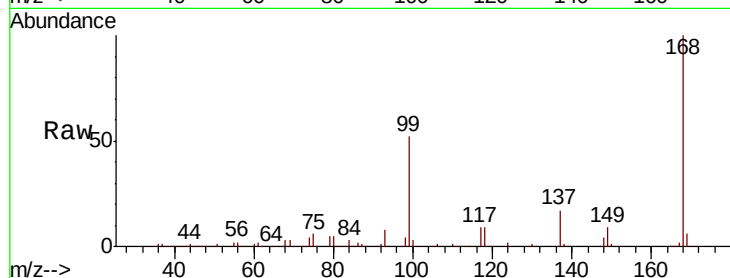
Tot Ion: 56 Resp: 4113

Ion Ratio Lower Upper

56 100

69 141.7 25.8 38.8#

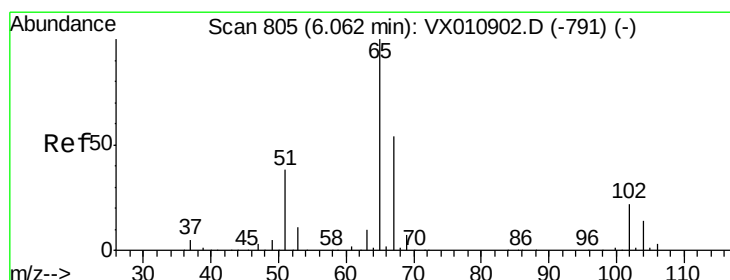
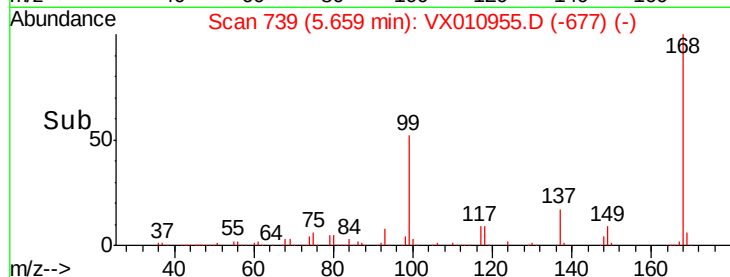
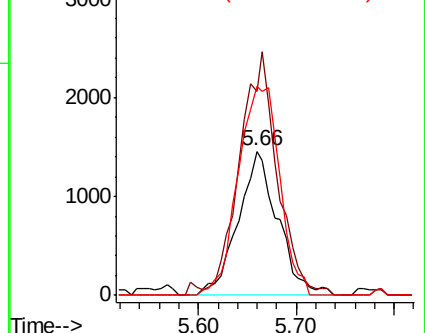
84 145.8 73.8 110.6#



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: 50.647 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010955.D

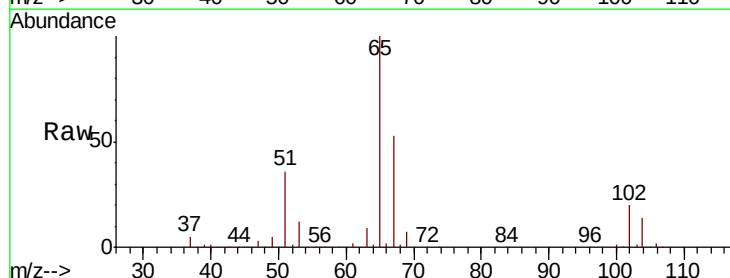
Acq: 18 Jul 2019 13:49

Tgt Ion: 65 Resp: 117035

Ion Ratio Lower Upper

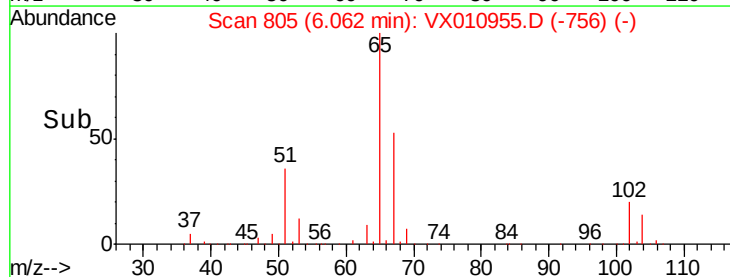
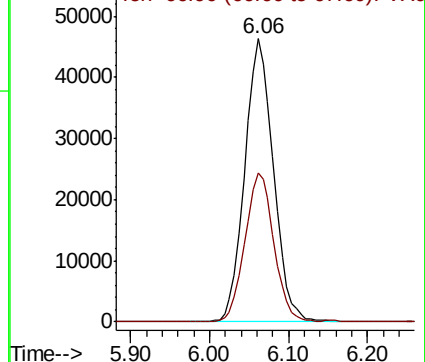
65 100

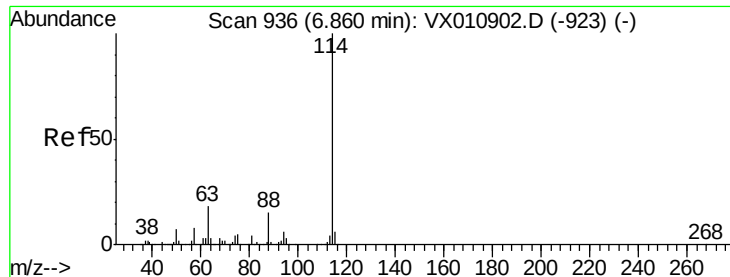
67 53.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

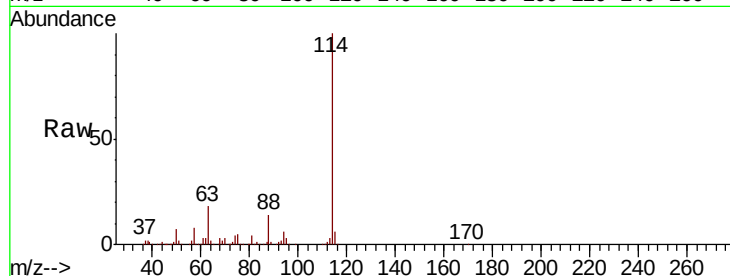




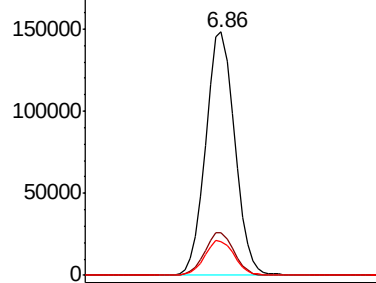
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX010955.D
Acq: 18 Jul 2019 13:49

Instrument :
MSVOA_X
ClientSampleId :
TW-7

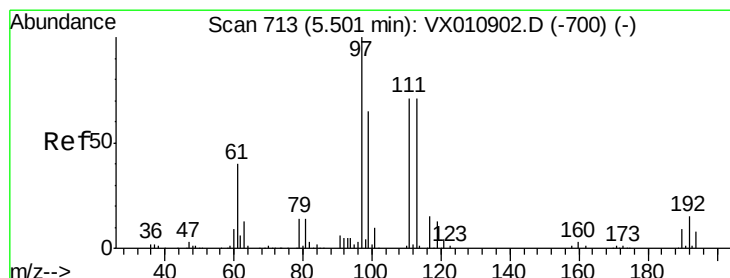
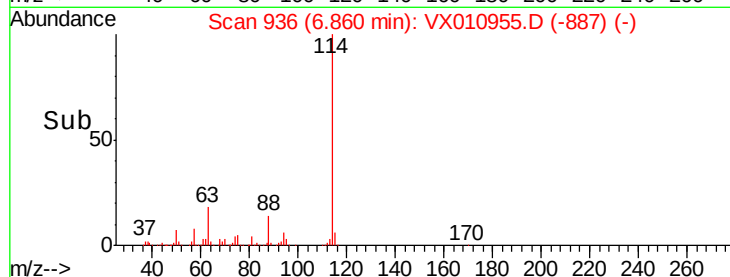
Tot Ion:114 Resp: 344833
Ion Ratio Lower Upper
114 100
63 17.8 0.0 35.6
88 13.7 0.0 29.8



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

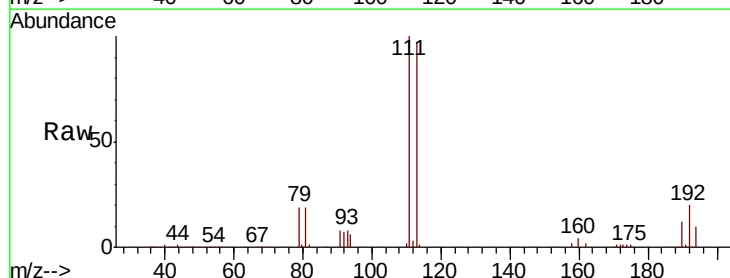


Time--> 6.70 6.80 6.90 7.00

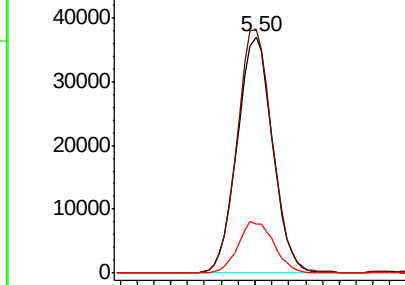


#35
Dibromofluoromethane
Concen: 48.198 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010955.D
Acq: 18 Jul 2019 13:49

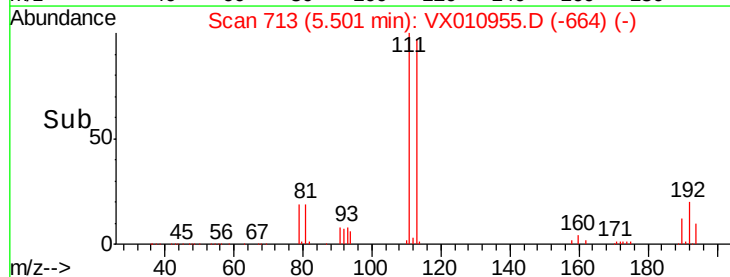
Tgt Ion:113 Resp: 105492
Ion Ratio Lower Upper
113 100
111 102.7 82.3 123.5
192 22.1 17.4 26.2

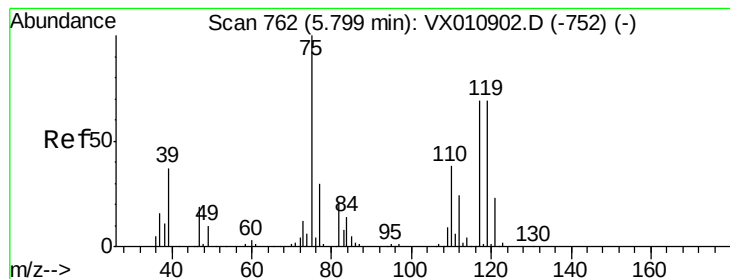


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



Time--> 5.40 5.50 5.60





#36

1,1-Dichloropropene

Concen: 5.020 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

TW-7

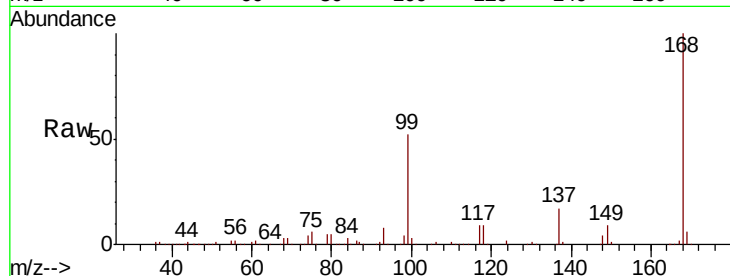
Tot Ion: 75 Resp: 14219

Ion Ratio Lower Upper

75 100

110 11.9 19.9 59.7#

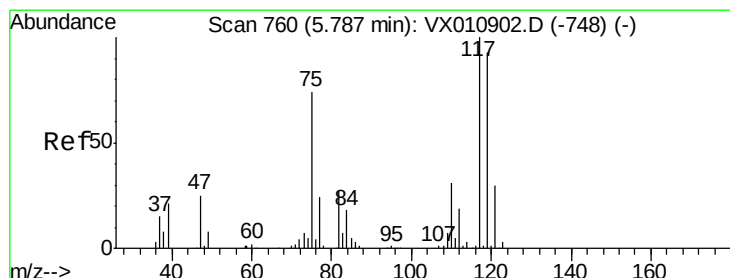
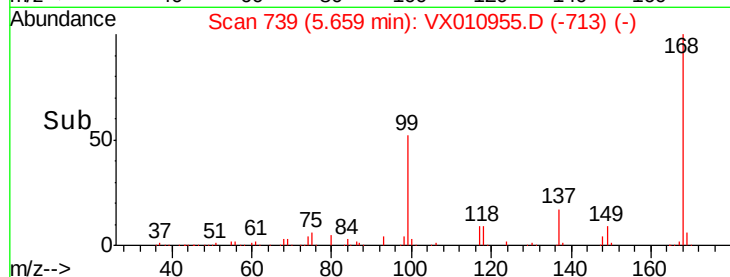
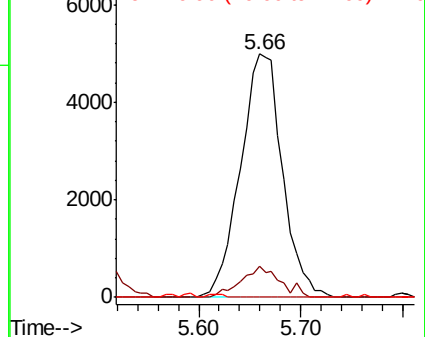
77 0.0 25.0 37.4#



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: 7.026 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

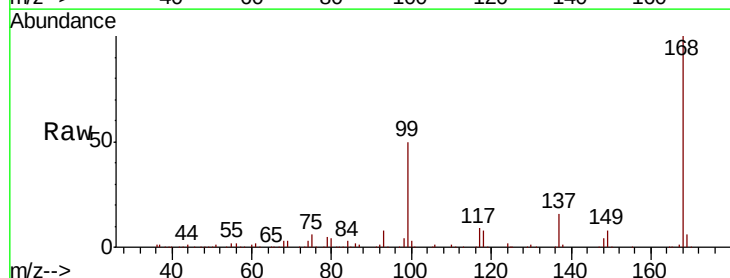
Tgt Ion: 117 Resp: 20737

Ion Ratio Lower Upper

117 100

119 4.4 74.2 111.2#

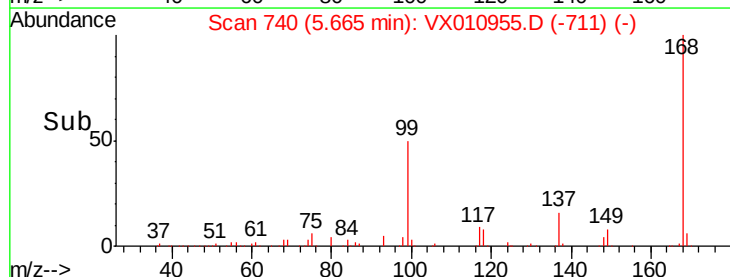
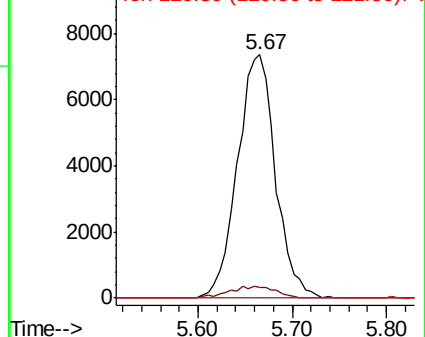
121 0.0 24.2 36.2#

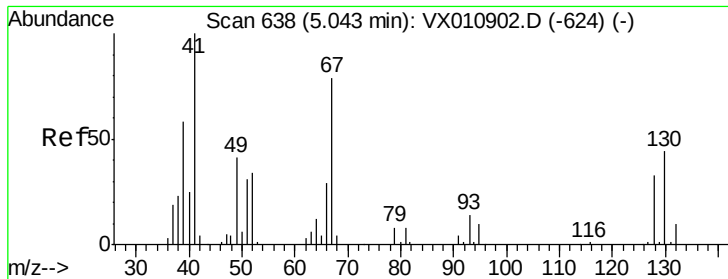


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.220 ug/l

RT: 5.06 min Scan# 641

Delta R.T. 0.02 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

TW-7

Tot Ion: 41 Resp: 363

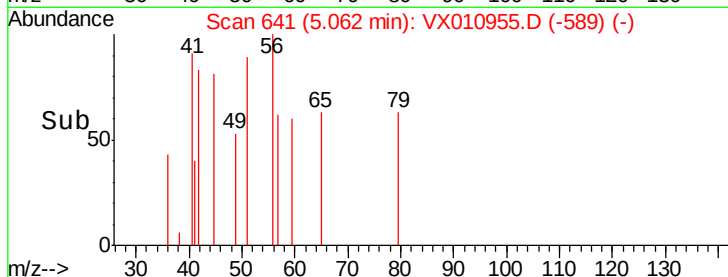
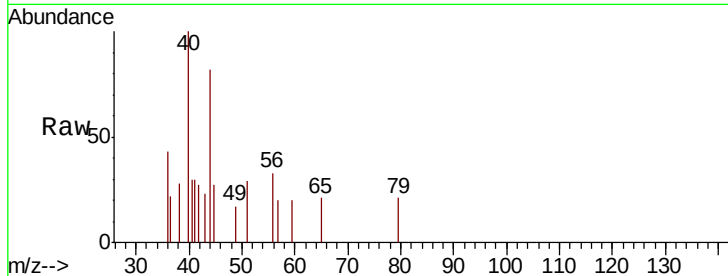
Ion Ratio Lower Upper

41 100

39 57.6 45.4 68.2

67 6.3 65.9 98.9#

52 6.9 26.2 39.2#

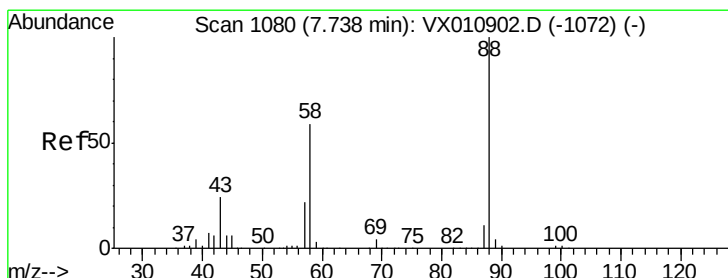
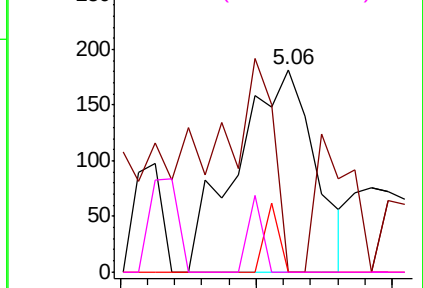


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#49

1,4-Dioxane

Concen: 0.616 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

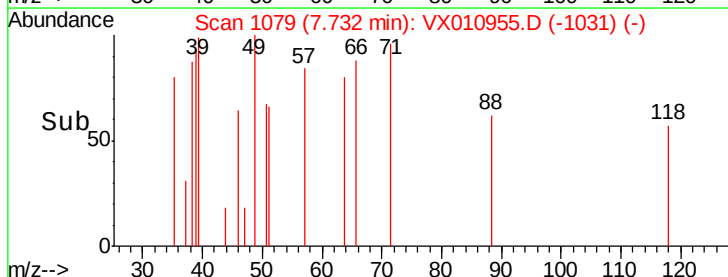
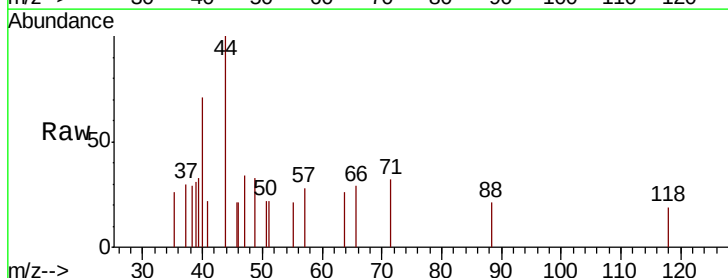
Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 112.5 22.9 34.3#

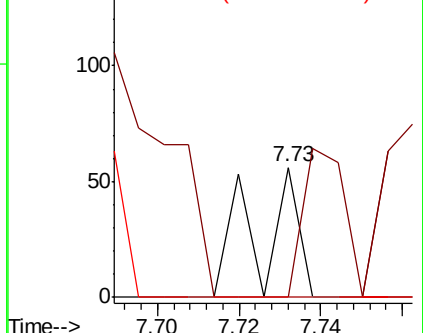
58 0.0 49.8 74.8#

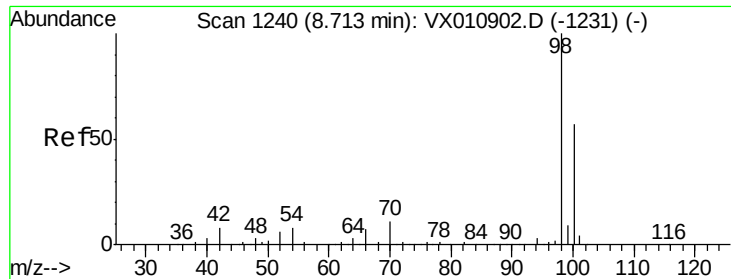


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

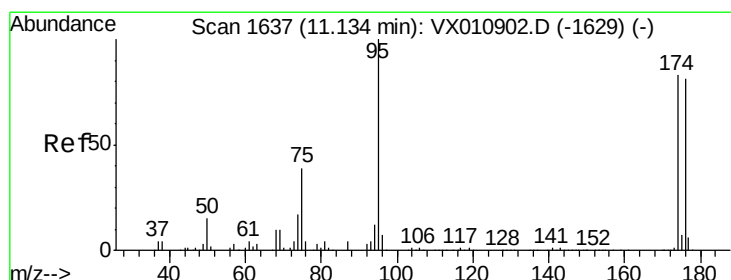
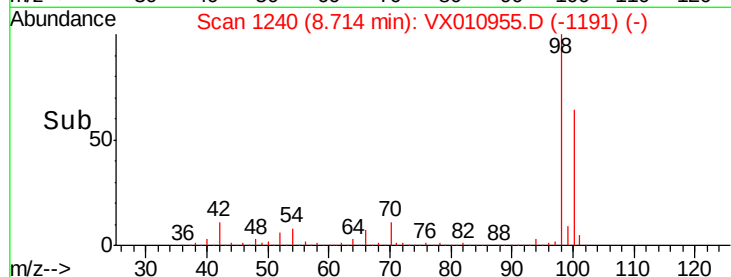
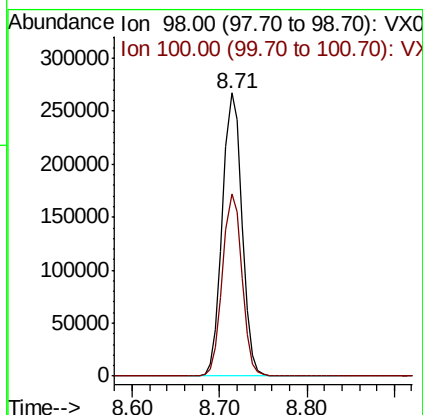
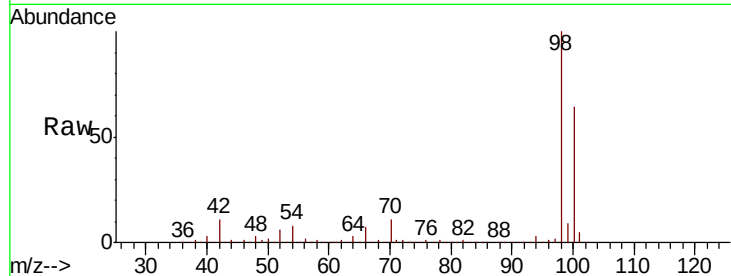




#50
Toluene-d8
Concen: 50.564 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010955.D
Acq: 18 Jul 2019 13:49

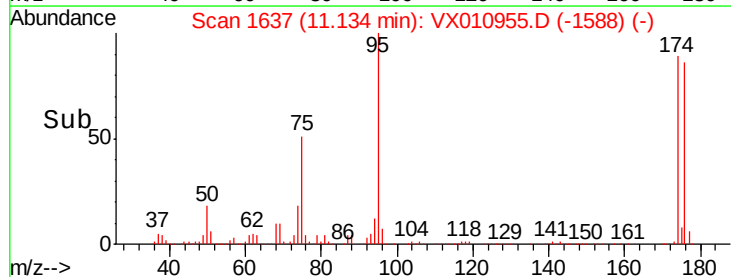
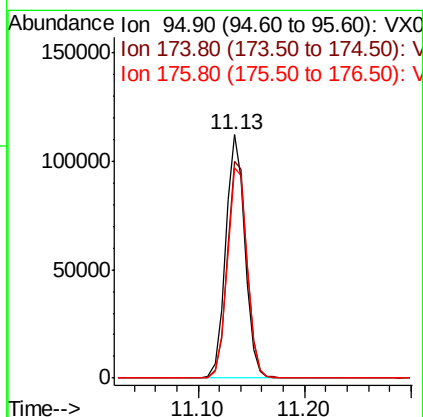
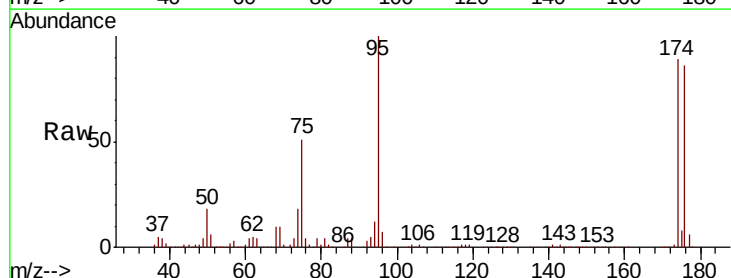
Instrument :
MSVOA_X
ClientSampleId :
TW-7

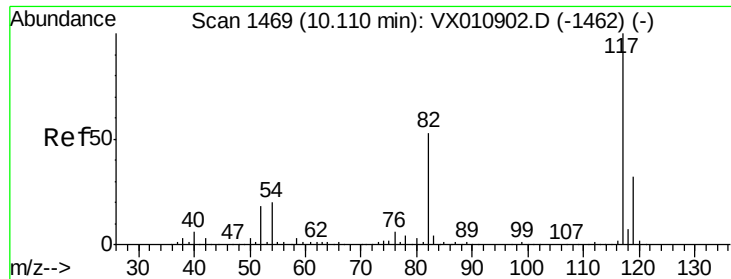
Tot Ion: 98 Resp: 415083
Ion Ratio Lower Upper
98 100
100 64.0 50.6 75.8



#62
4-Bromofluorobenzene
Concen: 47.301 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010955.D
Acq: 18 Jul 2019 13:49

Tgt Ion: 95 Resp: 142727
Ion Ratio Lower Upper
95 100
174 91.6 0.0 180.6
176 88.9 0.0 173.8

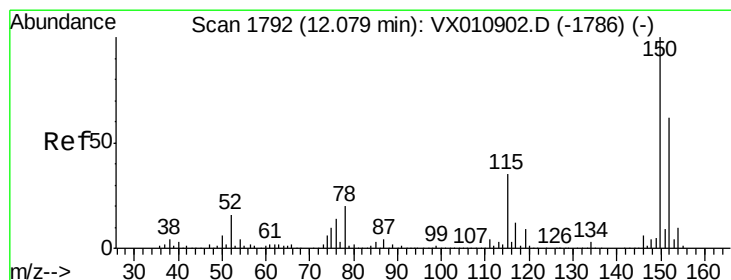
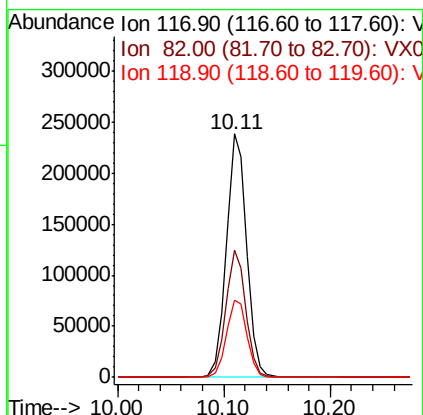
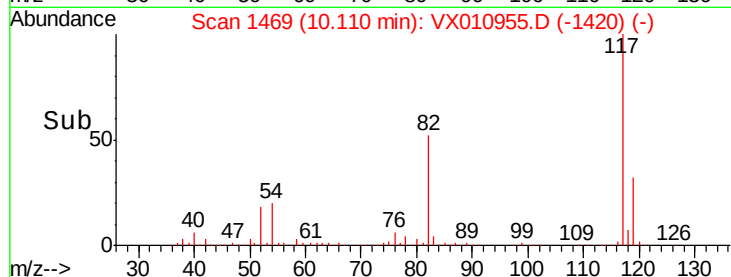
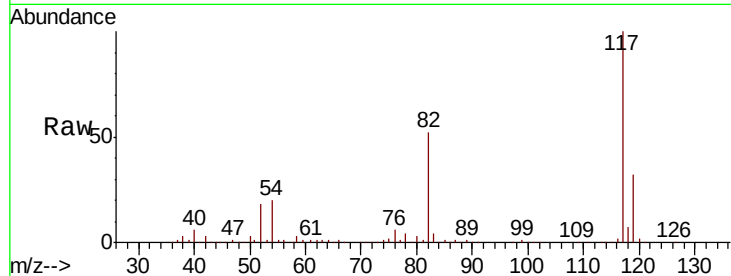




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010955.D
Acq: 18 Jul 2019 13:49

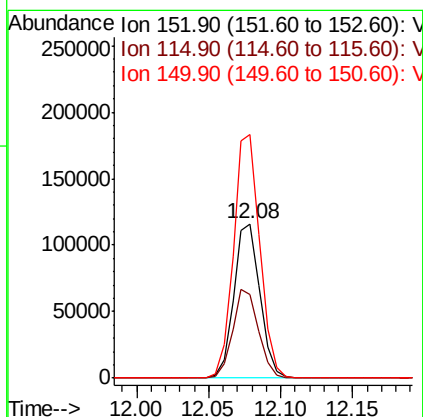
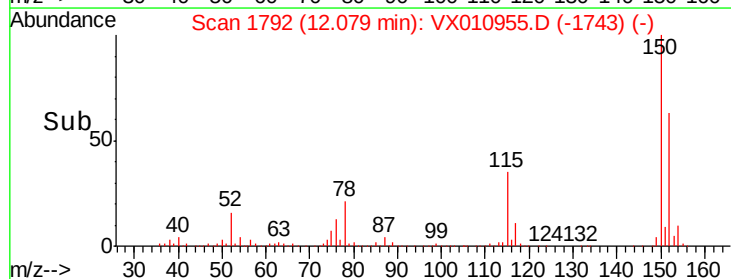
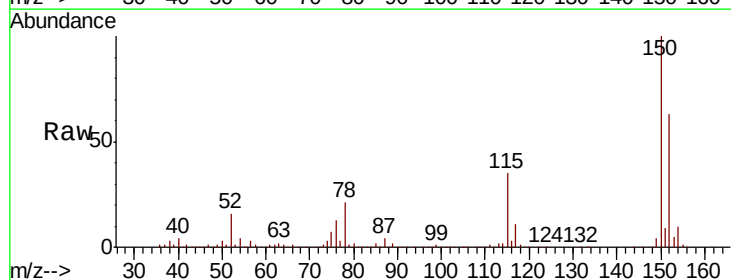
Instrument :
MSVOA_X
ClientSampleId :
TW-7

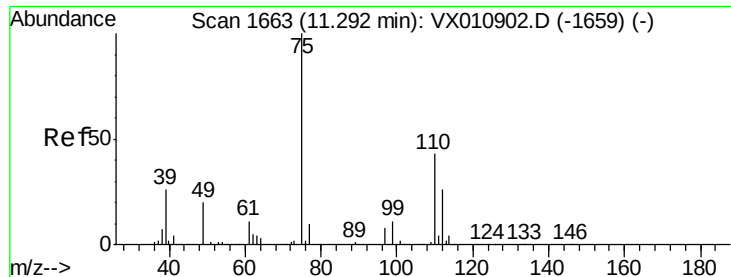
Tot Ion:117 Resp: 316996
Ion Ratio Lower Upper
117 100
82 52.4 42.6 63.8
119 31.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010955.D
Acq: 18 Jul 2019 13:49

Tgt Ion:152 Resp: 147435
Ion Ratio Lower Upper
152 100
115 57.2 39.7 119.1
150 158.7 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 26.979 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

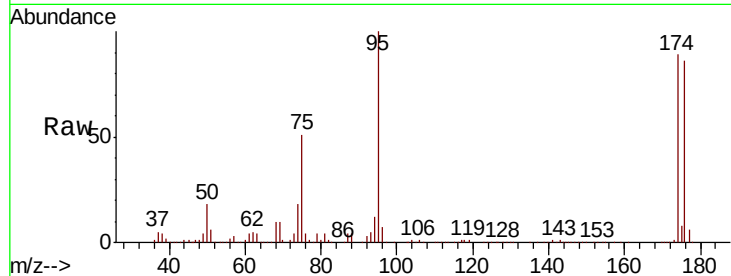
TW-7

Tot Ion: 75 Resp: 71778

Ion Ratio Lower Upper

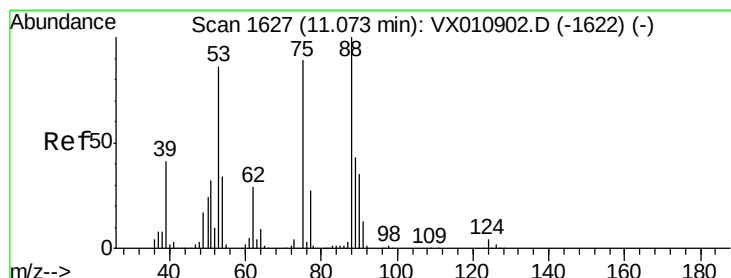
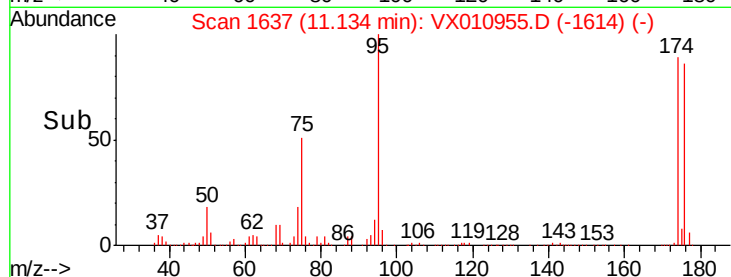
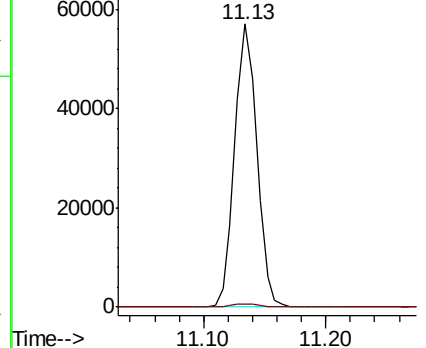
75 100

77 1.5 21.3 64.0#



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: 66.891 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010955.D

Acq: 18 Jul 2019 13:49

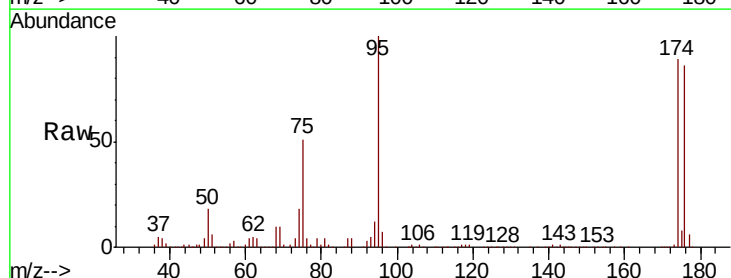
Tgt Ion: 75 Resp: 71778

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.0 38.5 57.7#



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

