

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072919\
 Data File : VX011141.D
 Acq On : 29 Jul 2019 13:28
 Operator : JC/SP
 Sample : K4017-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0108

Quant Time: Jul 30 05:05:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	311685	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	292206	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	136012	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	108579	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
35) Dibromofluoromethane	5.50	113	100297	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
50) Toluene-d8	8.71	98	377440	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	11.13	95	132044	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

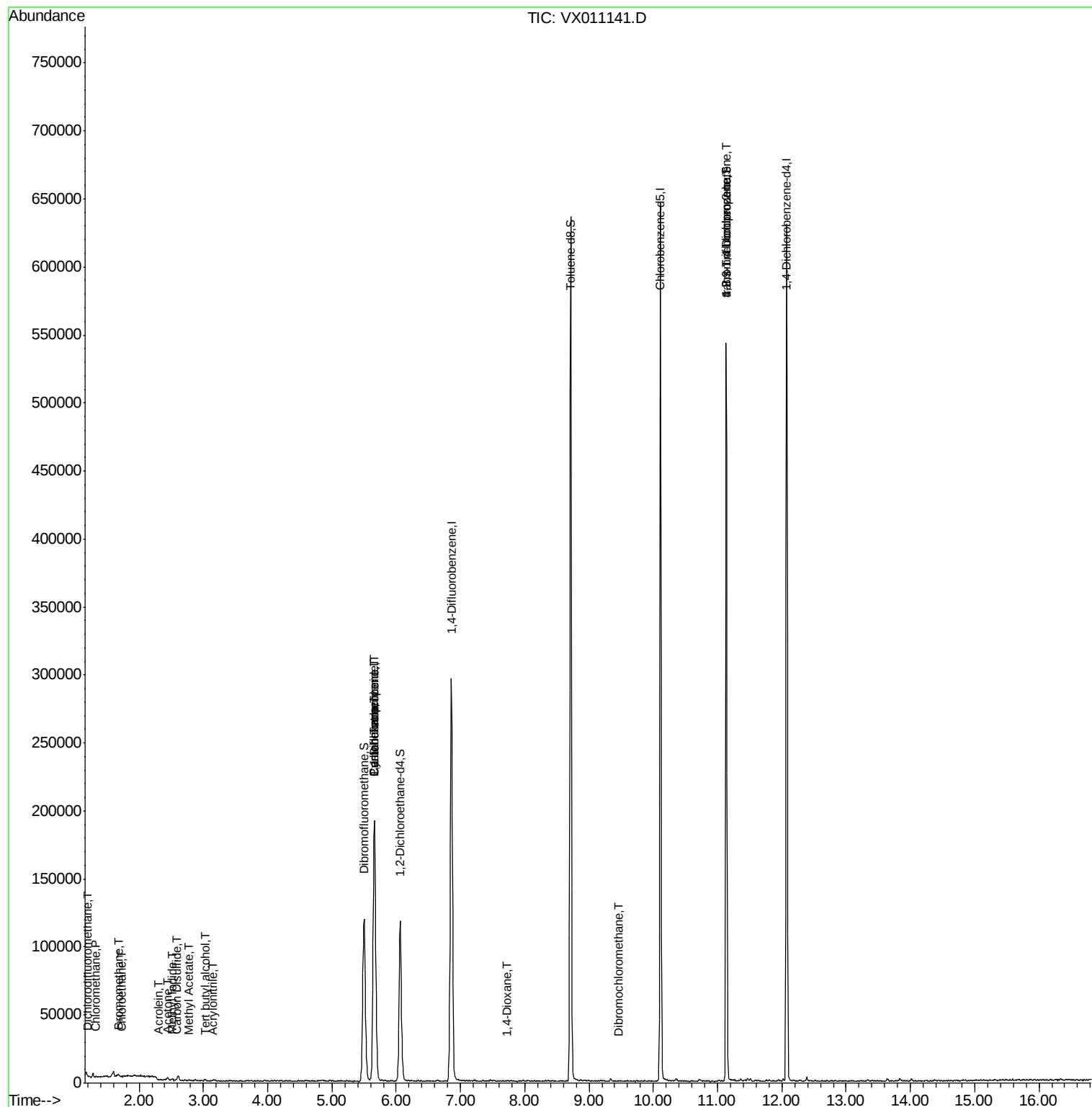
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	140	0.613	ug/l #	43
3) Chloromethane	1.33	50	498	0.277	ug/l #	74
5) Bromomethane	1.68	94	524	0.507	ug/l	90
6) Chloroethane	1.73	64	343	0.294	ug/l	88
10) Methyl Iodide	2.52	142	1015	0.436	ug/l #	93
11) Tert butyl alcohol	3.03	59	557	1.150	ug/l	98
13) Acrolein	2.30	56	310	1.108	ug/l #	47
15) Acrylonitrile	3.15	53	341	0.348	ug/l	88
16) Acetone	2.44	43	2362	2.515	ug/l	95
17) Carbon Disulfide	2.57	76	1137	0.255	ug/l #	93
18) Methyl Acetate	2.78	43	778	0.364	ug/l #	53
31) Cyclohexane	5.66	56	3923	1.389	ug/l #	3
36) 1,1-Dichloropropene	5.66	75	12969	5.066	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18652	6.991	ug/l #	17
49) 1,4-Dioxane	7.73	88	21	0.358	ug/l #	1
60) Dibromochloromethane	9.45	129	21	2.536	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	66462	27.079	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	66462	67.124	ug/l #	11

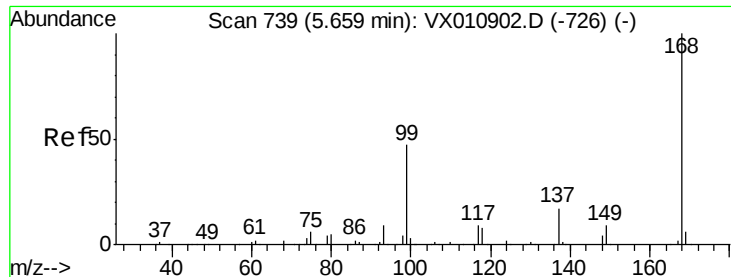
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

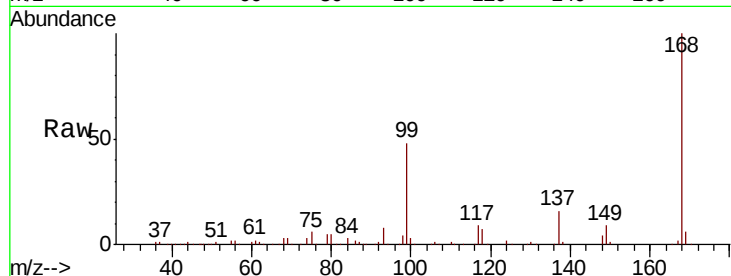
SU19-MSW0108

Tot Ion:168 Resp: 195500

Ion Ratio Lower Upper

168 100

99 48.4 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

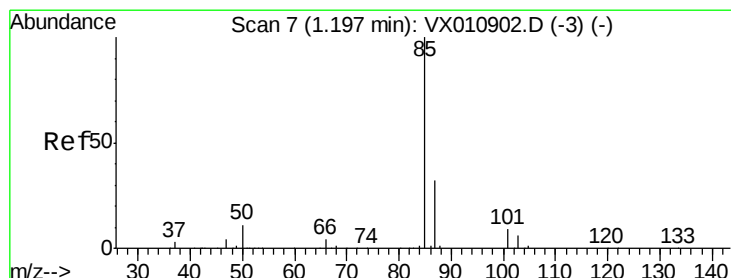
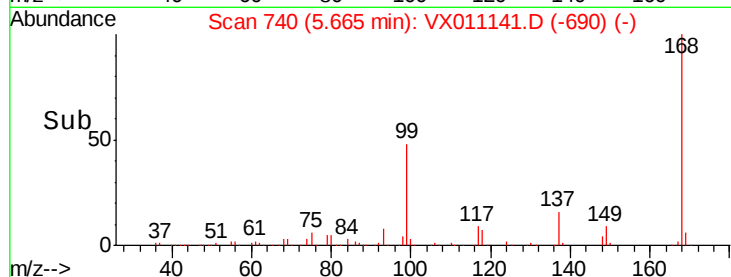
40000

20000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.613 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011141.D

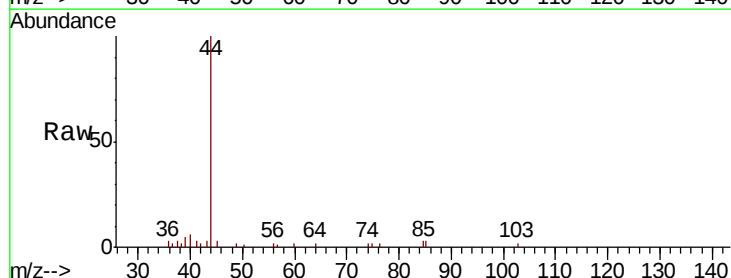
Acq: 29 Jul 2019 13:28

Tgt Ion: 85 Resp: 140

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

1.20

200

150

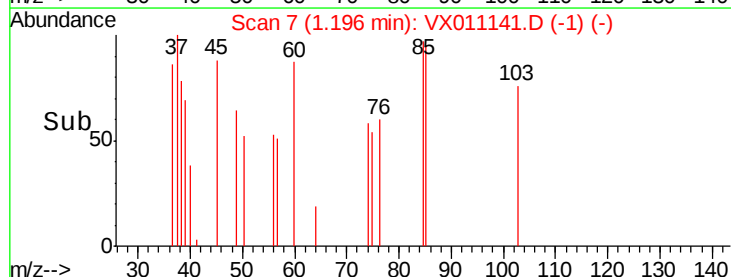
100

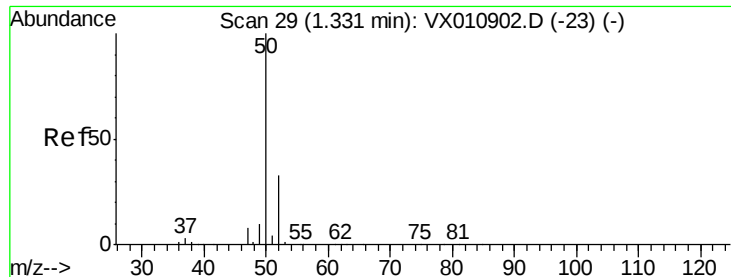
50

0

1.16 1.18 1.20 1.22

Time-->





#3

Chloromethane

Concen: 0.277 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

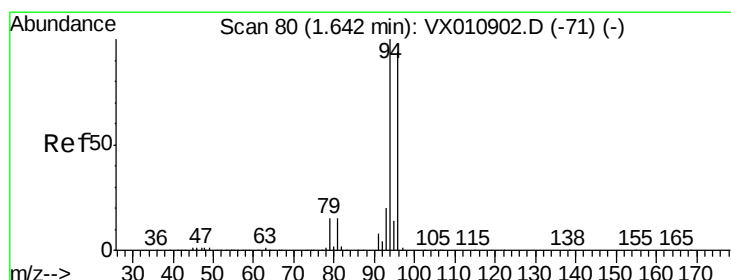
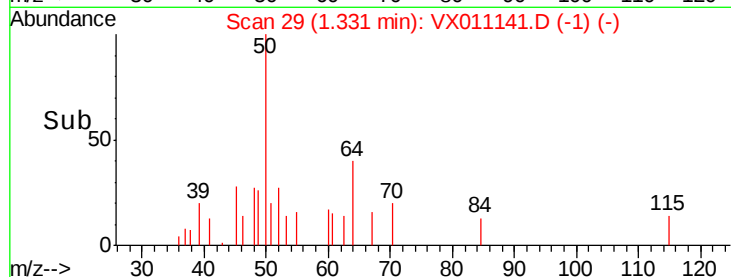
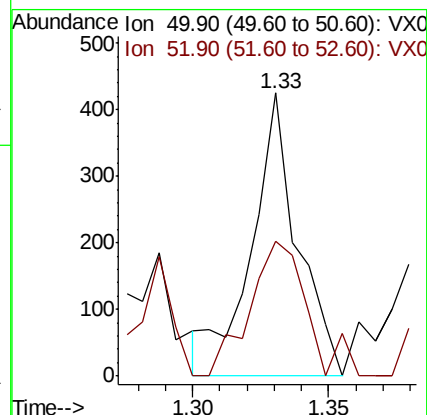
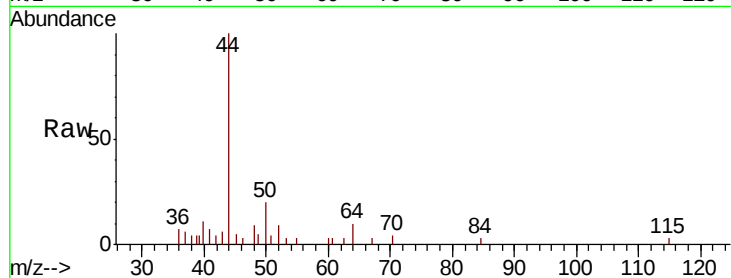
SU19-MSW0108

Tot Ion: 50 Resp: 498

Ion Ratio Lower Upper

50 100

52 47.8 26.4 39.6#



#5

Bromomethane

Concen: 0.507 ug/l

RT: 1.68 min Scan# 86

Delta R.T. 0.04 min

Lab File: VX011141.D

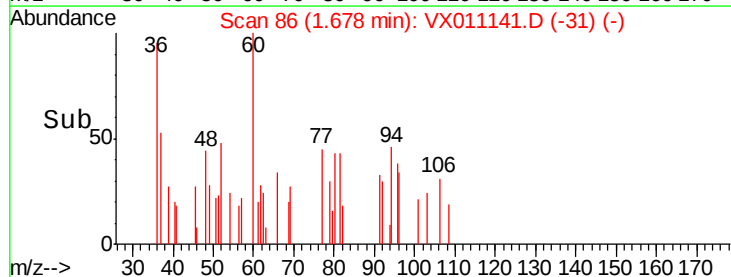
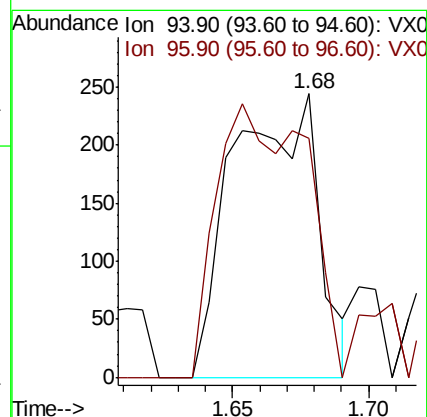
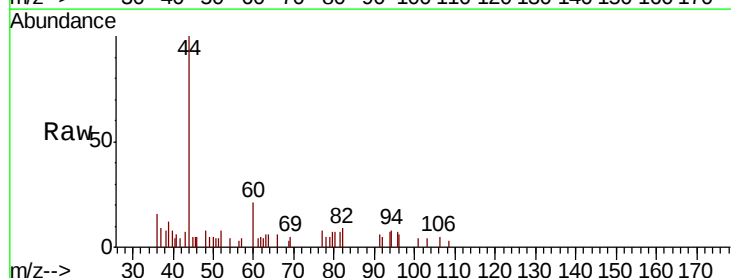
Acq: 29 Jul 2019 13:28

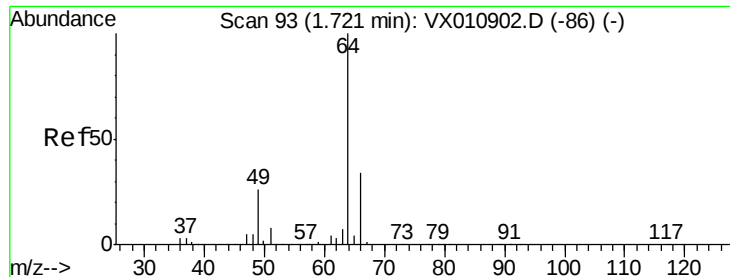
Tgt Ion: 94 Resp: 524

Ion Ratio Lower Upper

94 100

96 84.4 75.6 113.4





#6

Chloroethane

Concen: 0.294 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

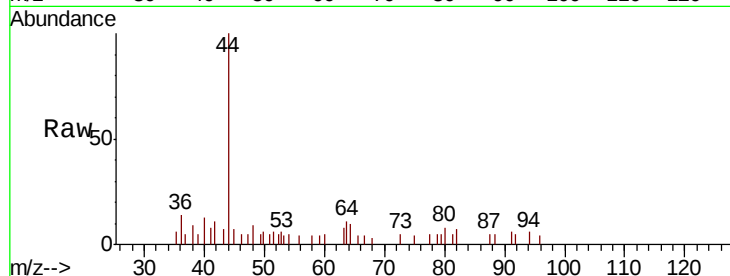
SU19-MSW0108

Tot Ion: 64 Resp: 343

Ion Ratio Lower Upper

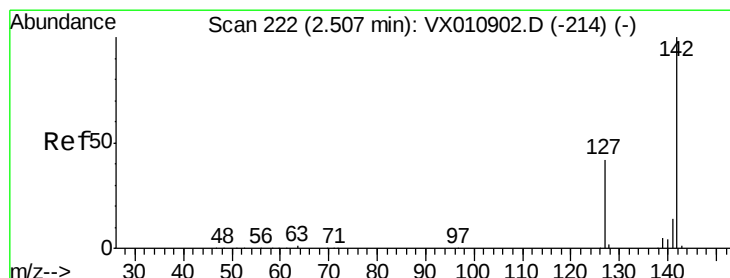
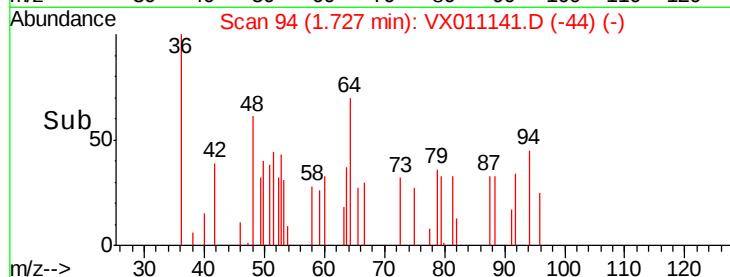
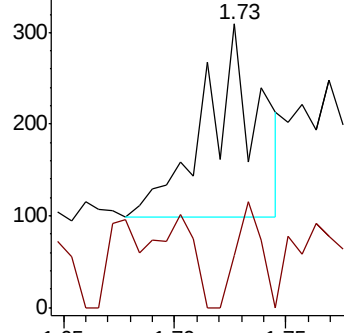
64 100

66 27.1 27.0 40.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.436 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

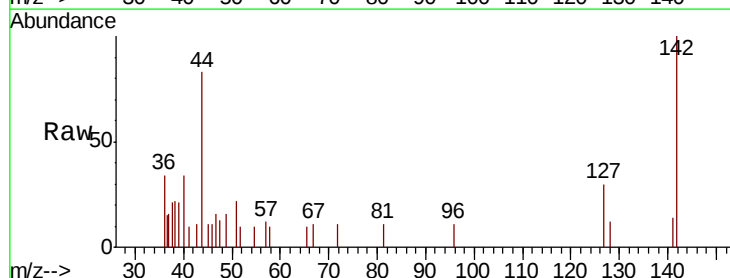
Tgt Ion: 142 Resp: 1015

Ion Ratio Lower Upper

142 100

127 46.9 34.2 51.4

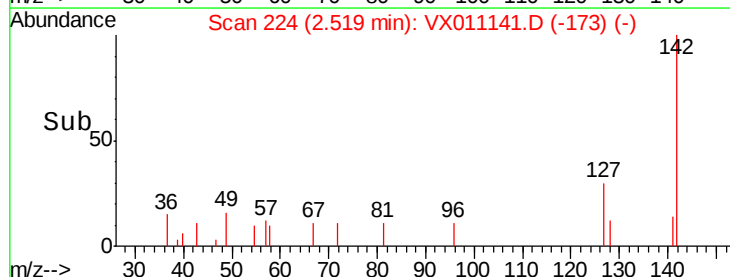
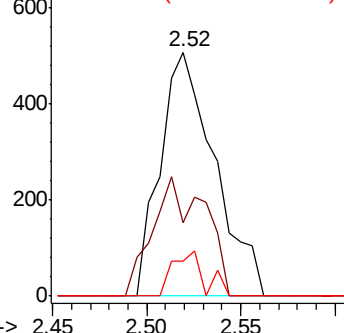
141 10.6 11.7 17.5#

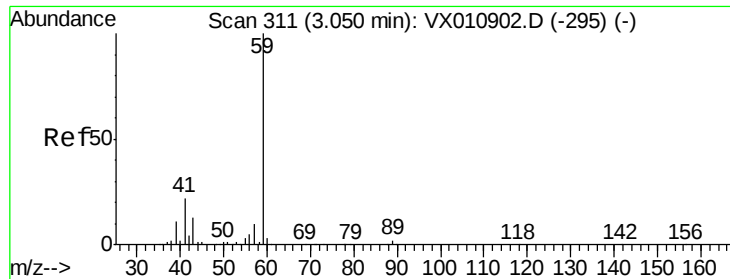


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

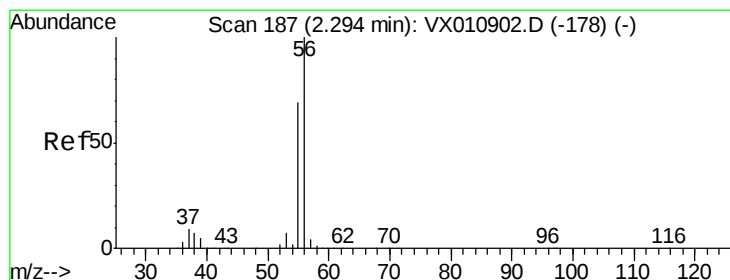
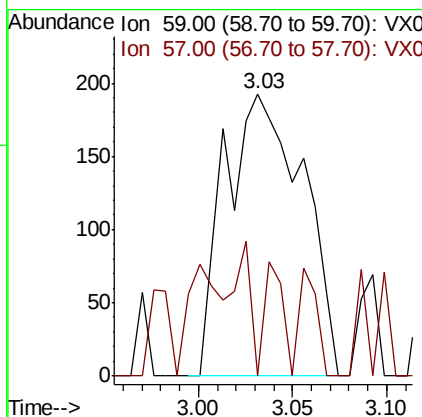
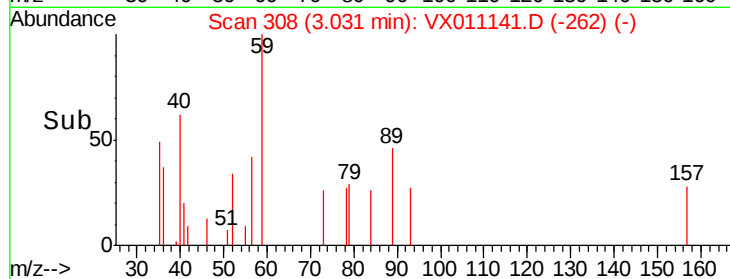
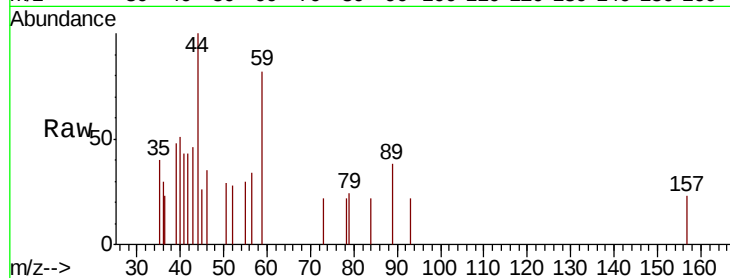




#11
Tert butvl alcohol
Concen: 1.150 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX011141.D
Acq: 29 Jul 2019 13:28

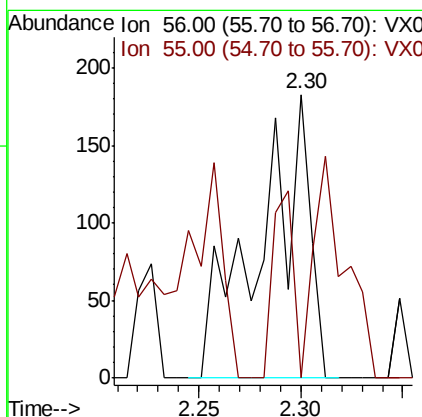
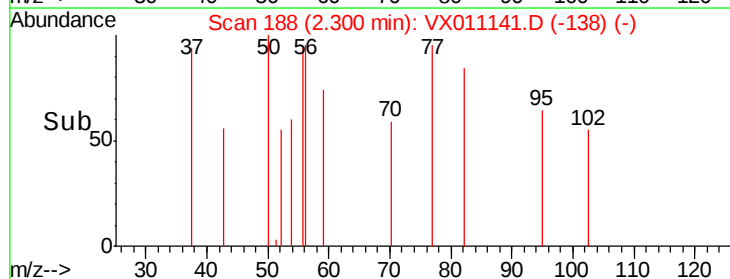
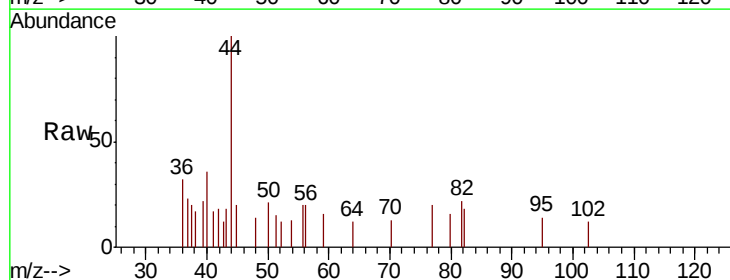
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0108

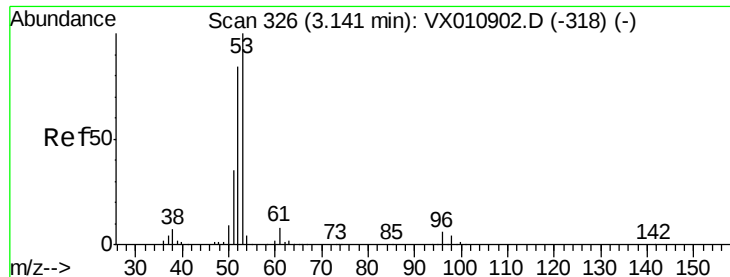
Tot Ion: 59 Resp: 557
Ion Ratio Lower Upper
59 100
57 9.3 7.9 11.9



#13
Acrolein
Concen: 1.108 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX011141.D
Acq: 29 Jul 2019 13:28

Tgt Ion: 56 Resp: 310
Ion Ratio Lower Upper
56 100
55 26.8 55.9 83.9#





#15

Acrylonitrile

Concen: 0.348 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0108

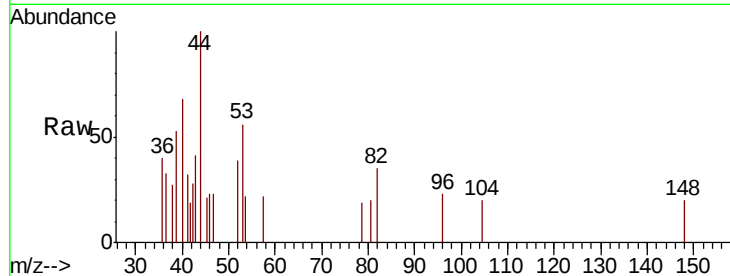
Tot Ion: 53 Resp: 341

Ion Ratio Lower Upper

53 100

52 68.0 66.5 99.7

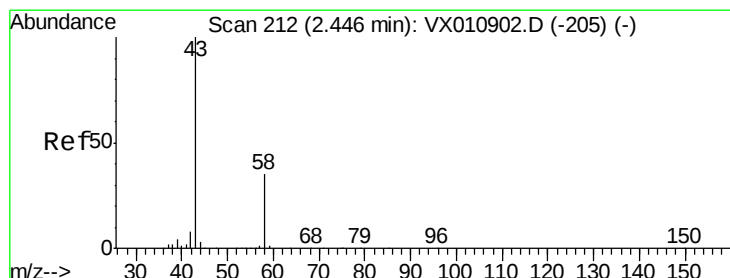
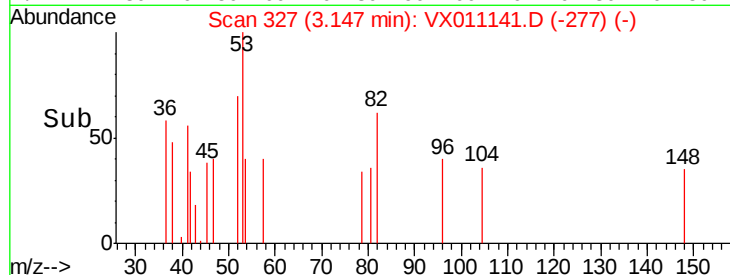
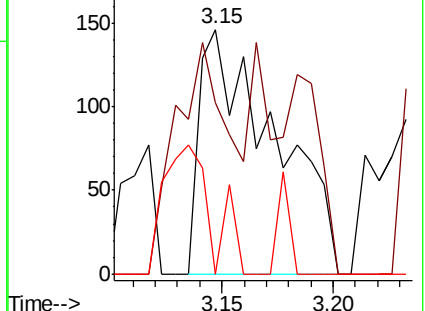
51 34.0 28.2 42.4



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: 2.515 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011141.D

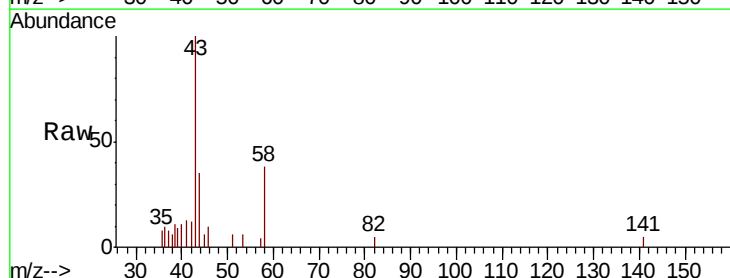
Acq: 29 Jul 2019 13:28

Tgt Ion: 43 Resp: 2362

Ion Ratio Lower Upper

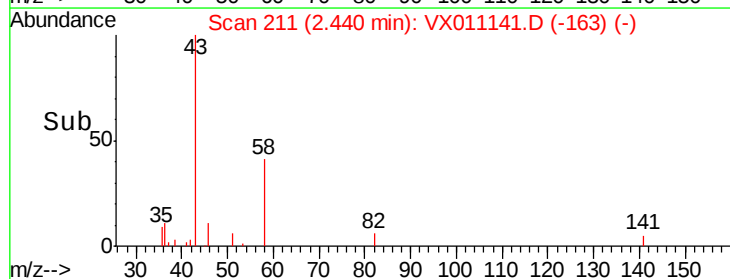
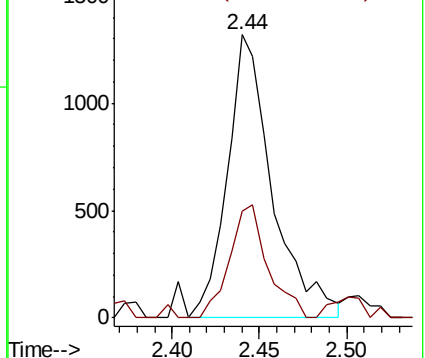
43 100

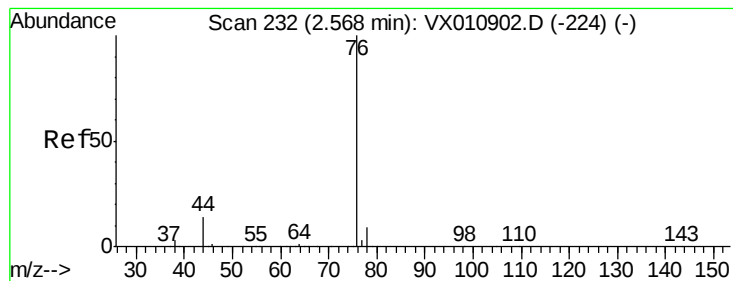
58 37.5 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.255 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

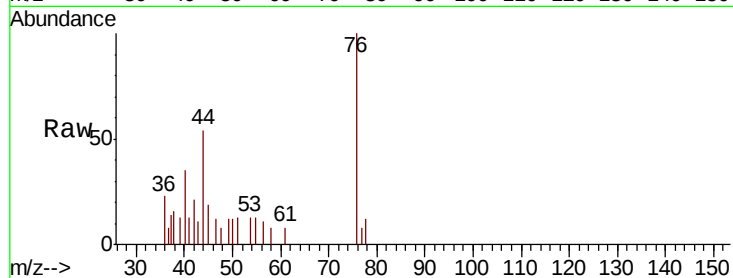
SU19-MSW0108

Tot Ion: 76 Resp: 1137

Ion Ratio Lower Upper

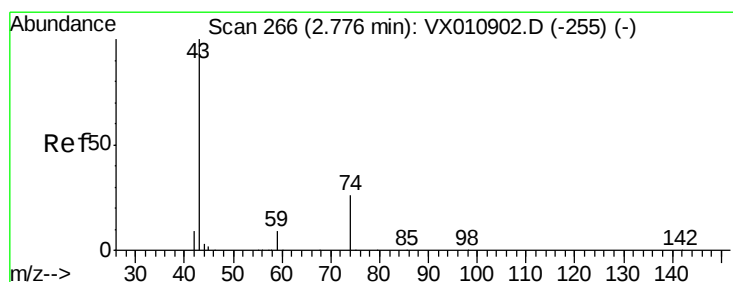
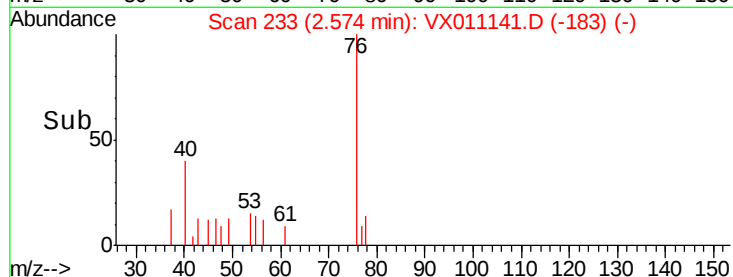
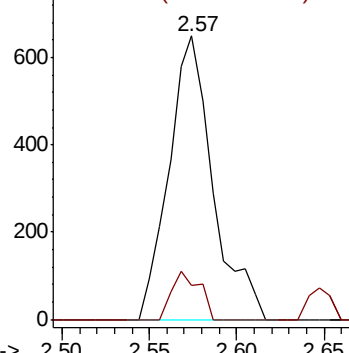
76 100

78 11.9 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.364 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX011141.D

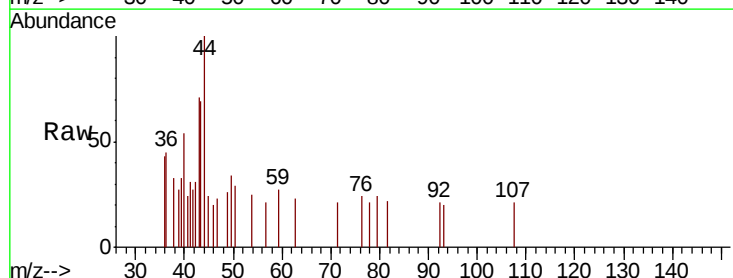
Acq: 29 Jul 2019 13:28

Tgt Ion: 43 Resp: 778

Ion Ratio Lower Upper

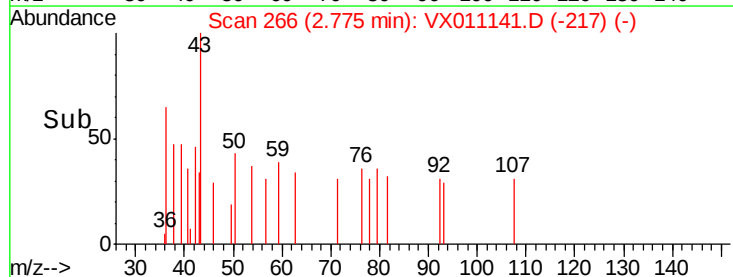
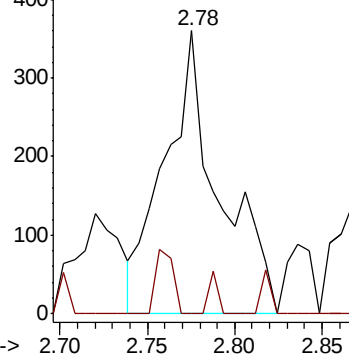
43 100

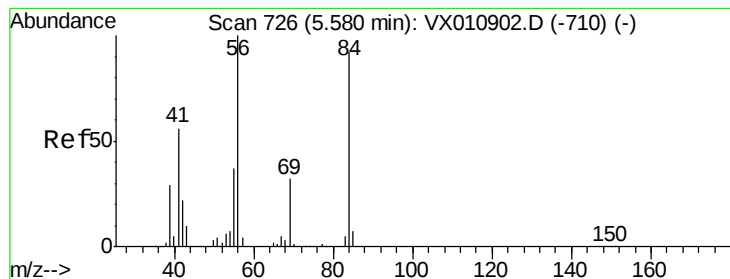
74 2.6 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#31

Cyclohexane

Concen: 1.389 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0108

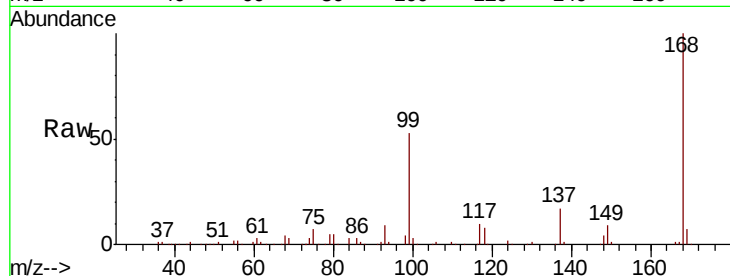
Tot Ion: 56 Resp: 3923

Ion Ratio Lower Upper

56 100

69 162.0 25.8 38.8#

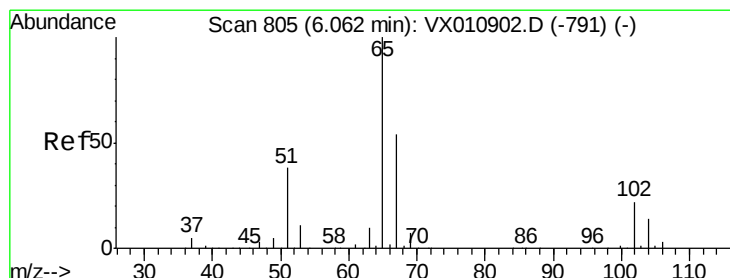
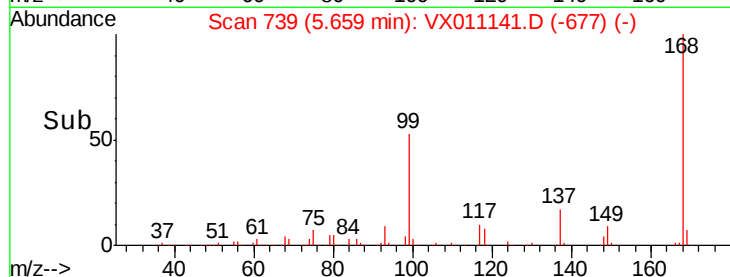
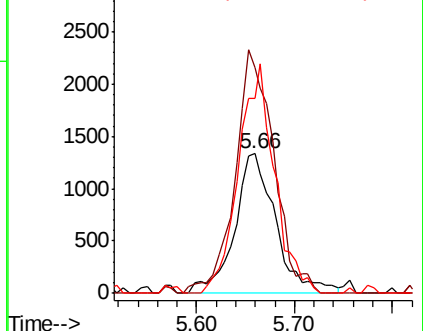
84 140.1 73.8 110.6#



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: 52.206 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011141.D

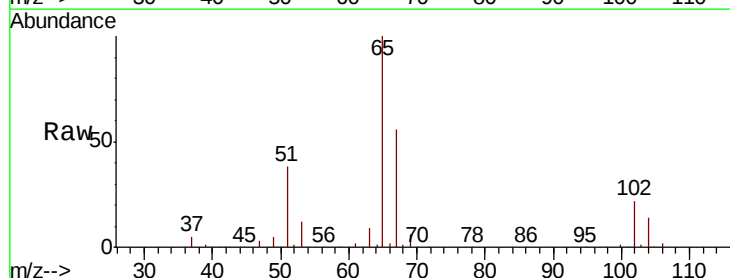
Acq: 29 Jul 2019 13:28

Tgt Ion: 65 Resp: 108579

Ion Ratio Lower Upper

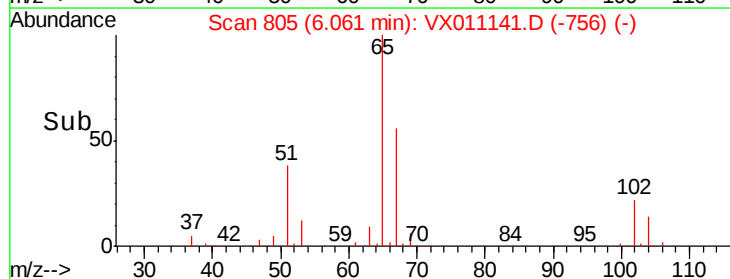
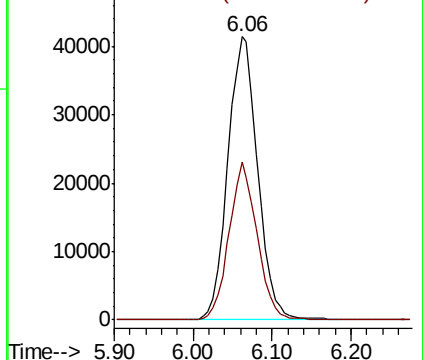
65 100

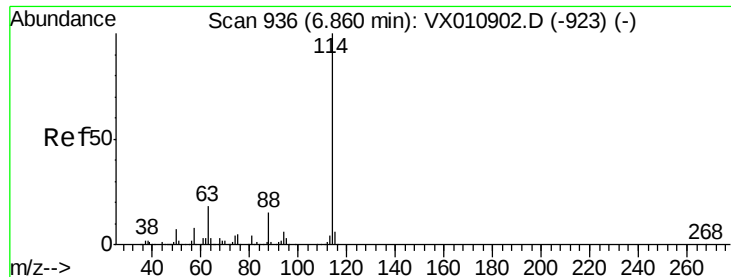
67 52.6 0.0 107.8



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: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0108

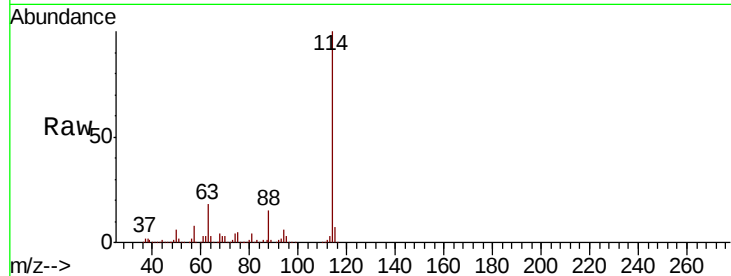
Tot Ion:114 Resp: 311685

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

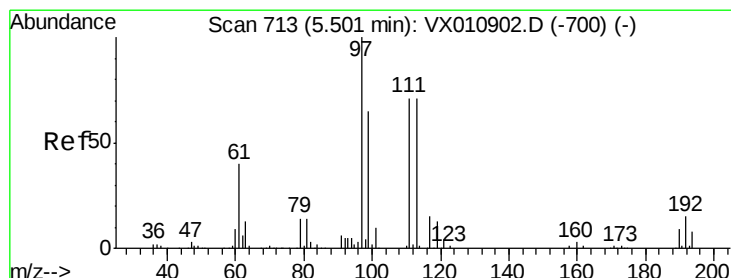
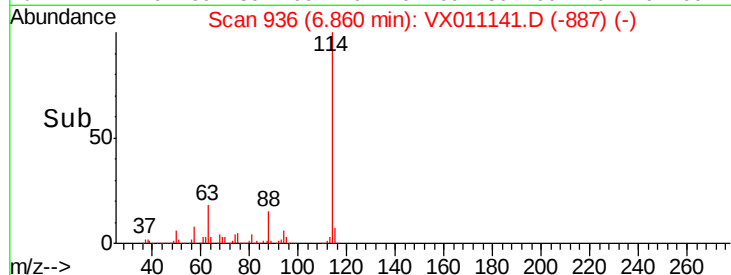
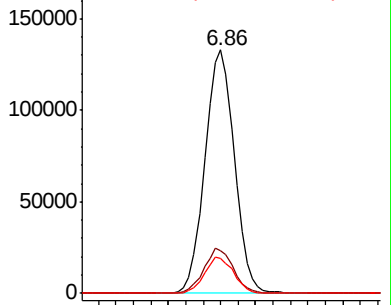
88 14.5 0.0 29.8



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



#35

Dibromofluoromethane

Concen: 50.698 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

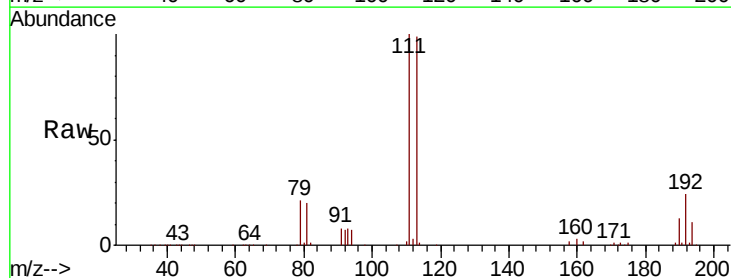
Tgt Ion:113 Resp: 100297

Ion Ratio Lower Upper

113 100

111 101.1 82.3 123.5

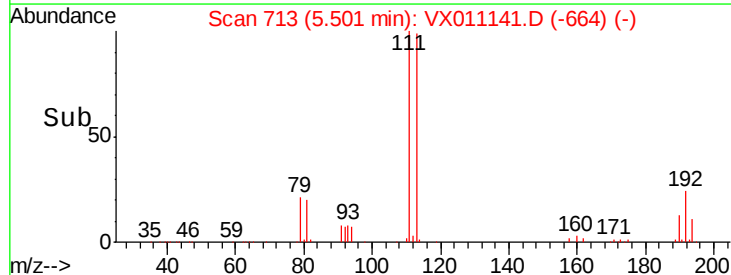
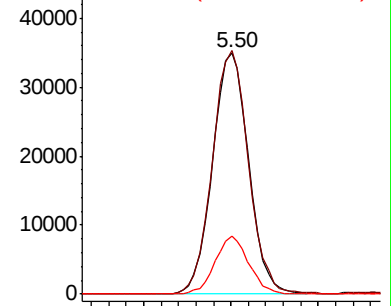
192 22.6 17.4 26.2

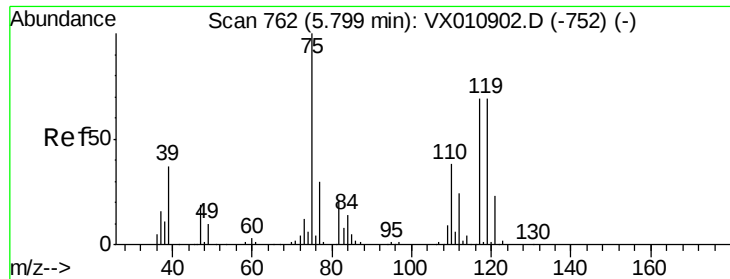


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.066 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0108

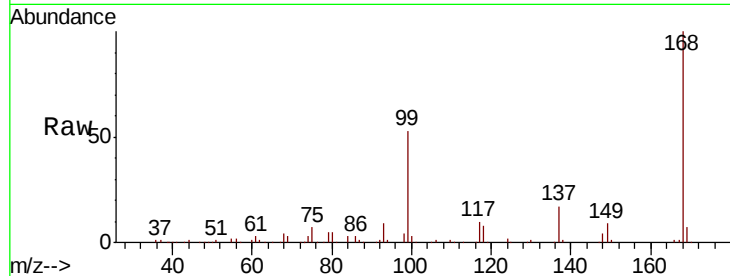
Tot Ion: 75 Resp: 12969

Ion Ratio Lower Upper

75 100

110 11.4 19.9 59.7#

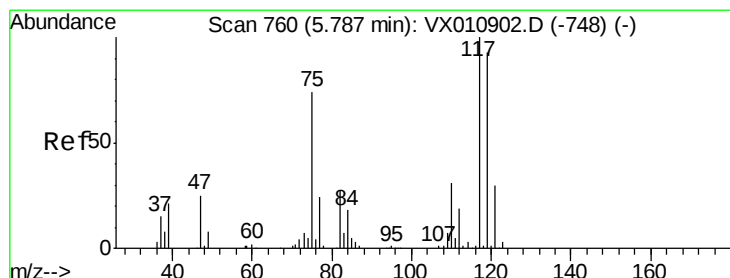
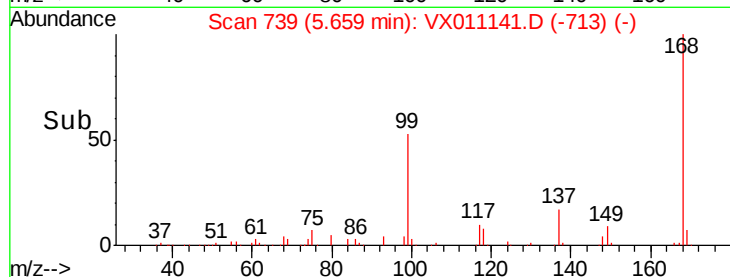
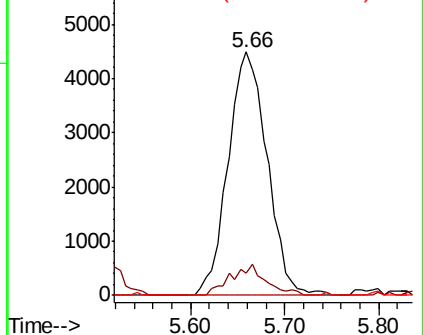
77 0.0 25.0 37.4#



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: 6.991 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

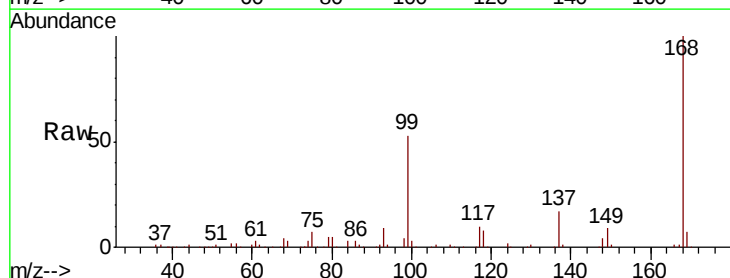
Tgt Ion: 117 Resp: 18652

Ion Ratio Lower Upper

117 100

119 4.3 74.2 111.2#

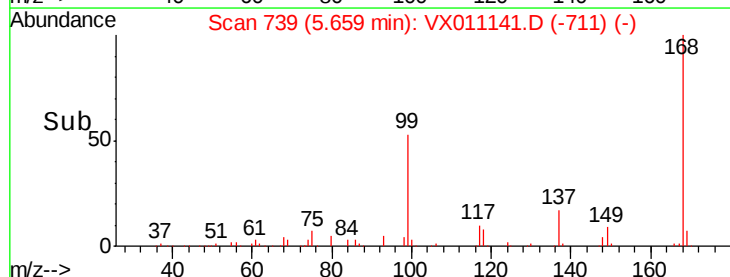
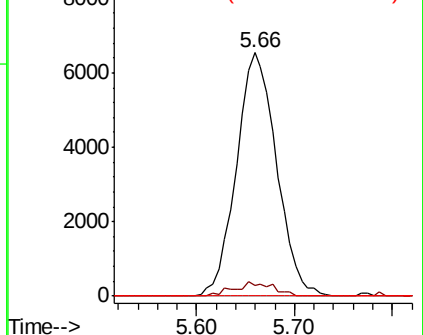
121 0.0 24.2 36.2#

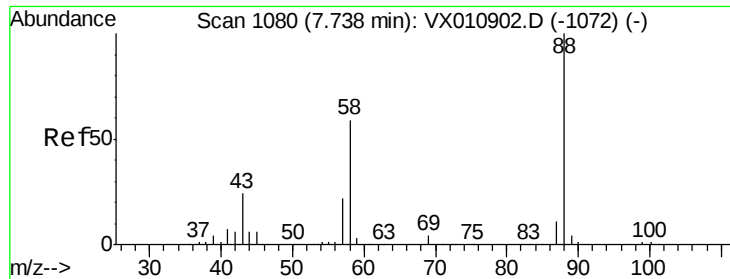


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

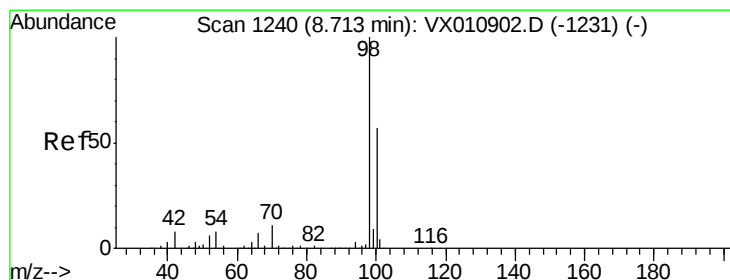
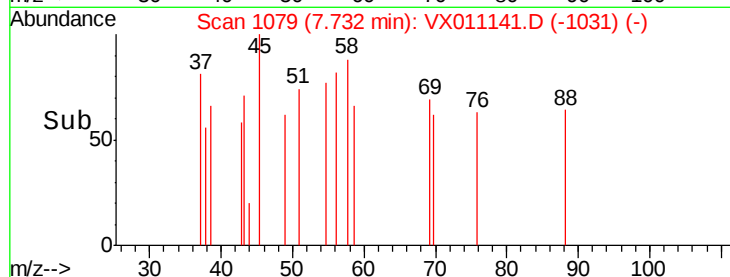
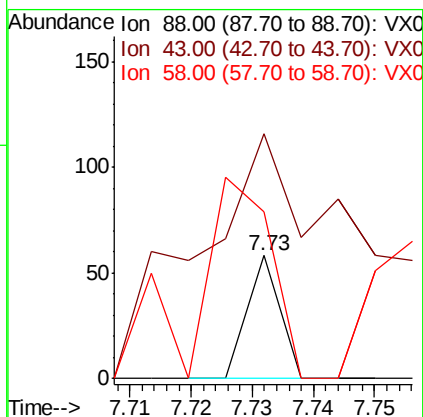
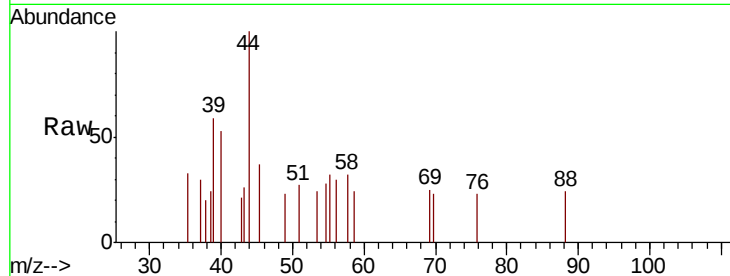




#49
 1,4-Dioxane
 Concen: 0.358 ug/l
 RT: 7.73 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VX011141.D
 Acq: 29 Jul 2019 13:28

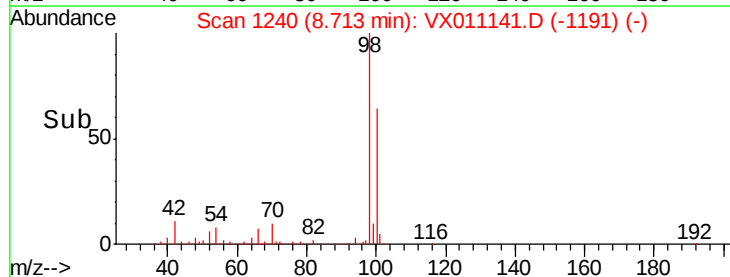
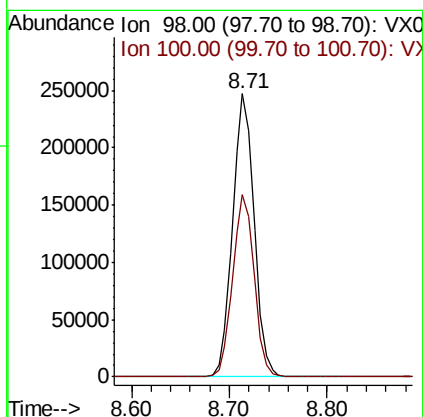
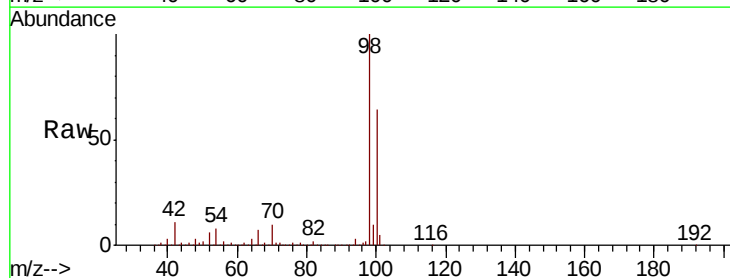
Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0108

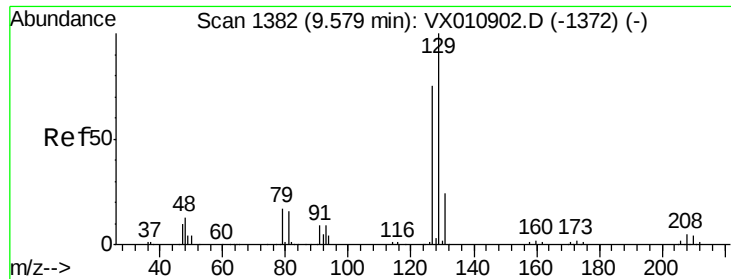
Tot Ion: 88 Resp: 21
 Ion Ratio Lower Upper
 88 100
 43 985.7 22.9 34.3#
 58 390.5 49.8 74.8#



#50
 Toluene-d8
 Concen: 50.868 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX011141.D
 Acq: 29 Jul 2019 13:28

Tgt Ion: 98 Resp: 377440
 Ion Ratio Lower Upper
 98 100
 100 64.4 50.6 75.8

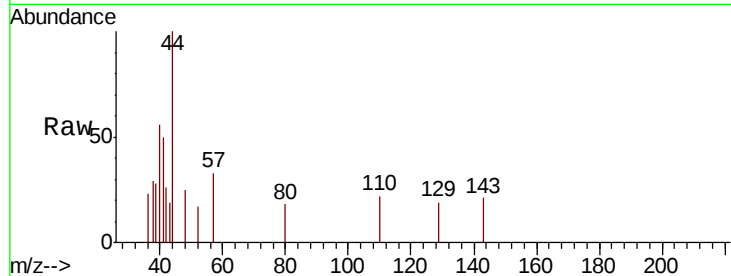




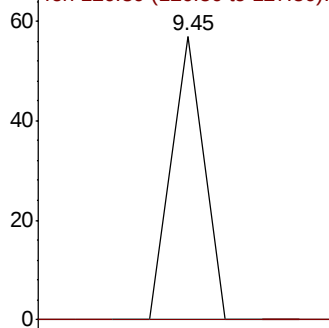
#60
Dibromochloromethane
Concen: 2.536 ug/l
RT: 9.45 min Scan# 1361
Delta R.T. -0.13 min
Lab File: VX011141.D
Acq: 29 Jul 2019 13:28

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0108

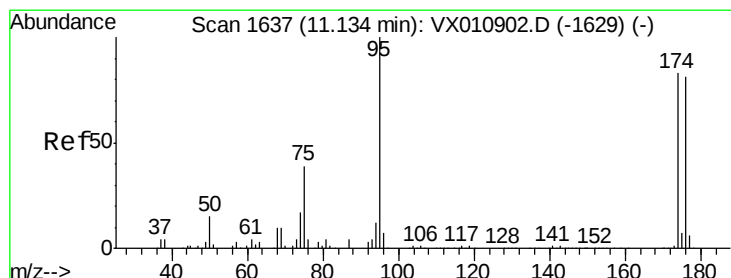
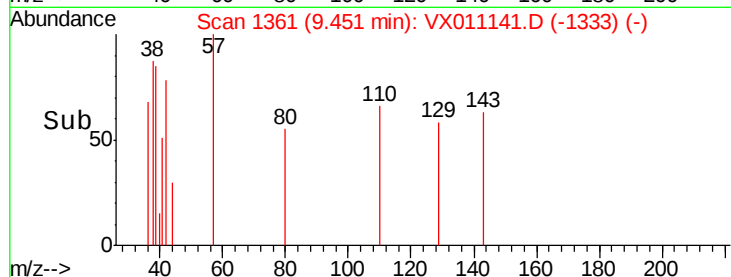
Tot Ion:129 Resp: 21
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



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

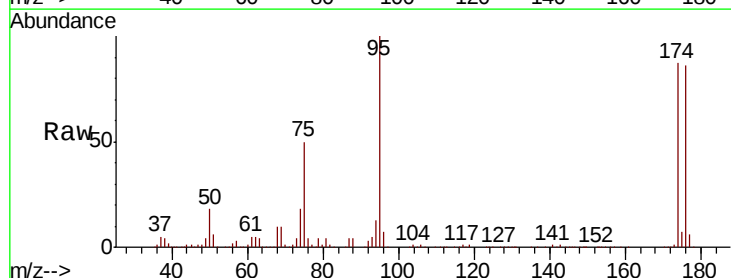


Time-->

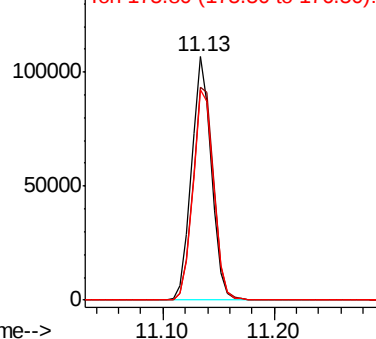


#62
4-Bromofluorobenzene
Concen: 48.414 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011141.D
Acq: 29 Jul 2019 13:28

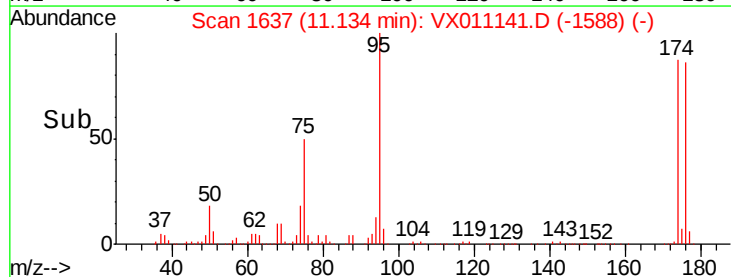
Tgt Ion: 95 Resp: 132044
Ion Ratio Lower Upper
95 100
174 91.8 0.0 180.6
176 89.3 0.0 173.8

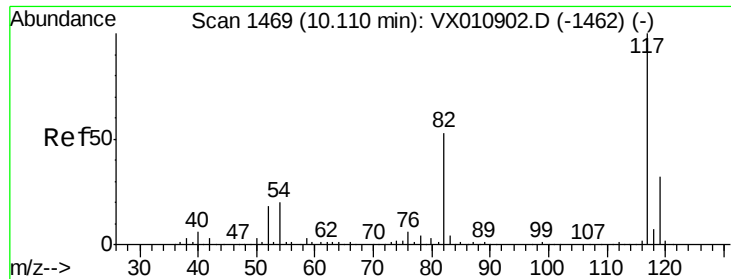


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V



Time-->

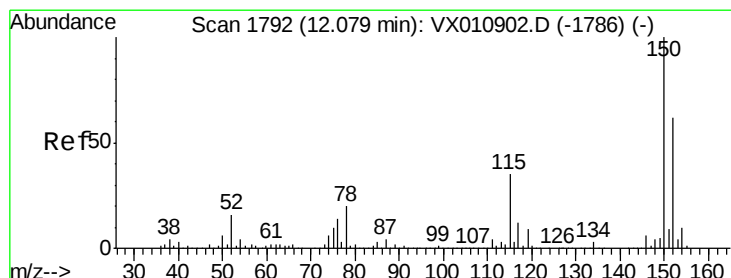
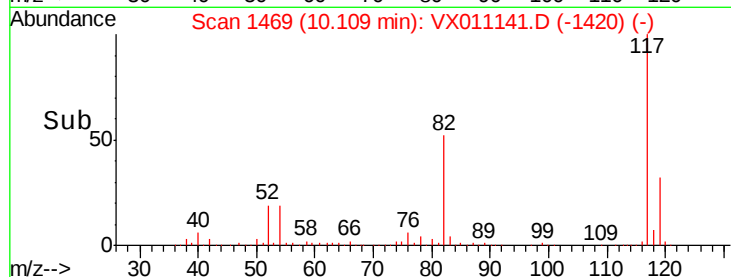
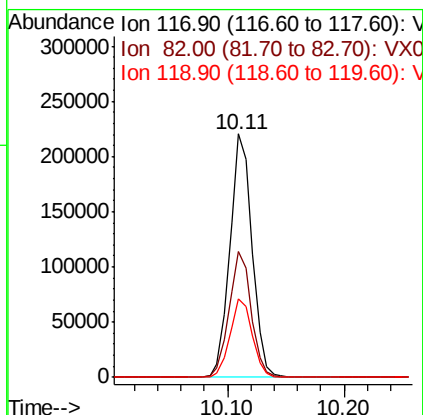
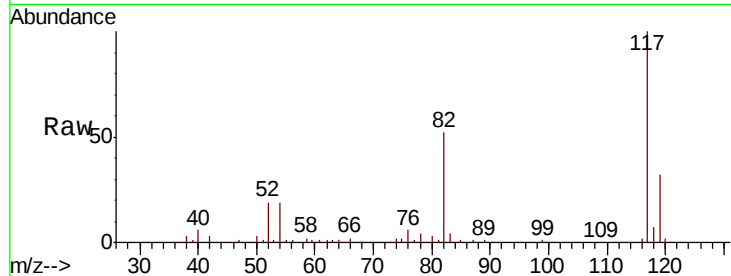




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011141.D
Acq: 29 Jul 2019 13:28

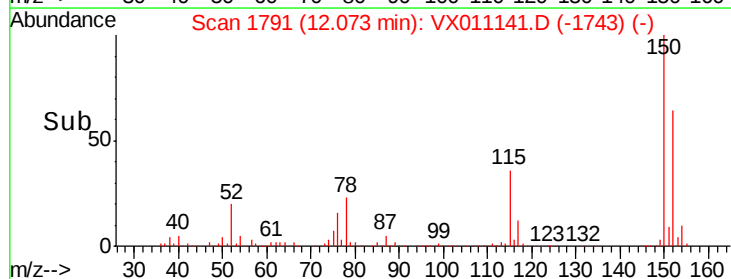
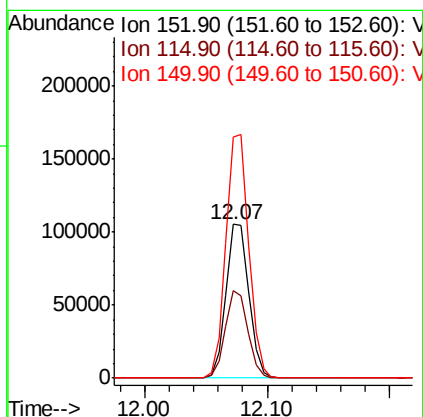
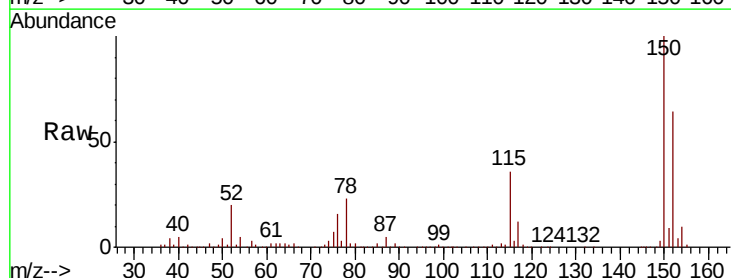
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0108

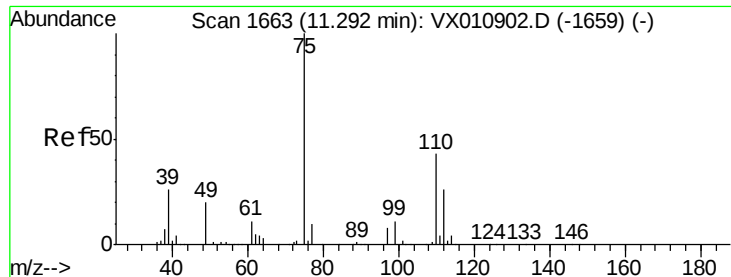
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.6	63.8
119	32.1	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011141.D
Acq: 29 Jul 2019 13:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	39.7	119.1
150	158.2	0.0	345.6





#76

1,2,3-Trichloropropane

Concen: 27.079 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

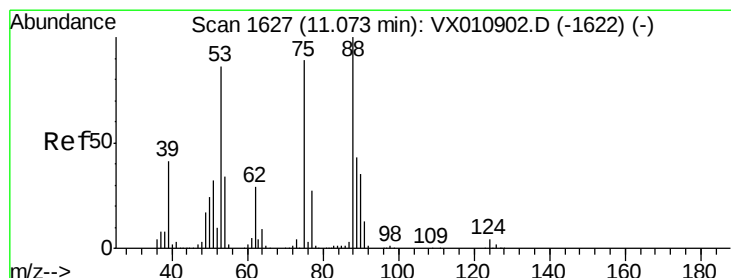
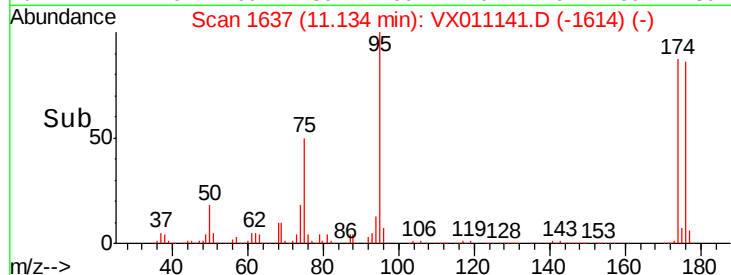
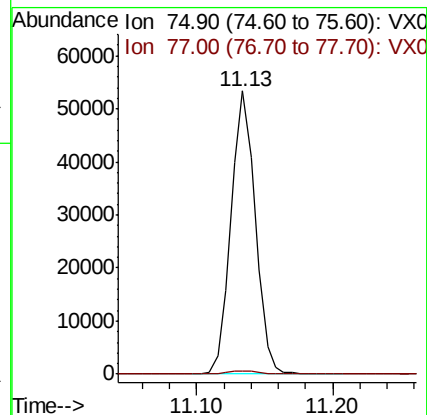
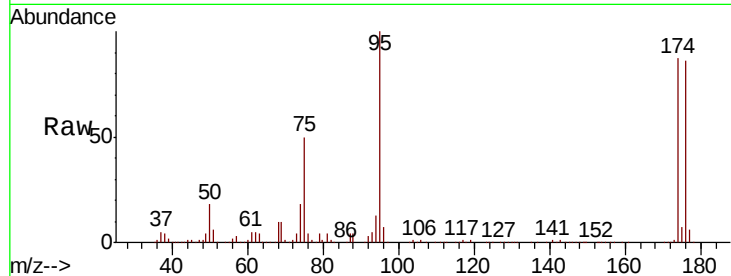
SU19-MSW0108

Tot Ion: 75 Resp: 66462

Ion Ratio Lower Upper

75 100

77 1.3 21.3 64.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.124 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011141.D

Acq: 29 Jul 2019 13:28

Tgt Ion: 75 Resp: 66462

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.1 38.5 57.7#

