

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072619\
 Data File : VX011094.D
 Acq On : 26 Jul 2019 16:35
 Operator : JC/SP
 Sample : K4017-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0105

Quant Time: Jul 27 02:03:49 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	5.66	168	203426	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	324540	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	302875	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143332	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	109603	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
35) Dibromofluoromethane	5.50	113	101247	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	8.71	98	389273	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	11.13	95	137094	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	

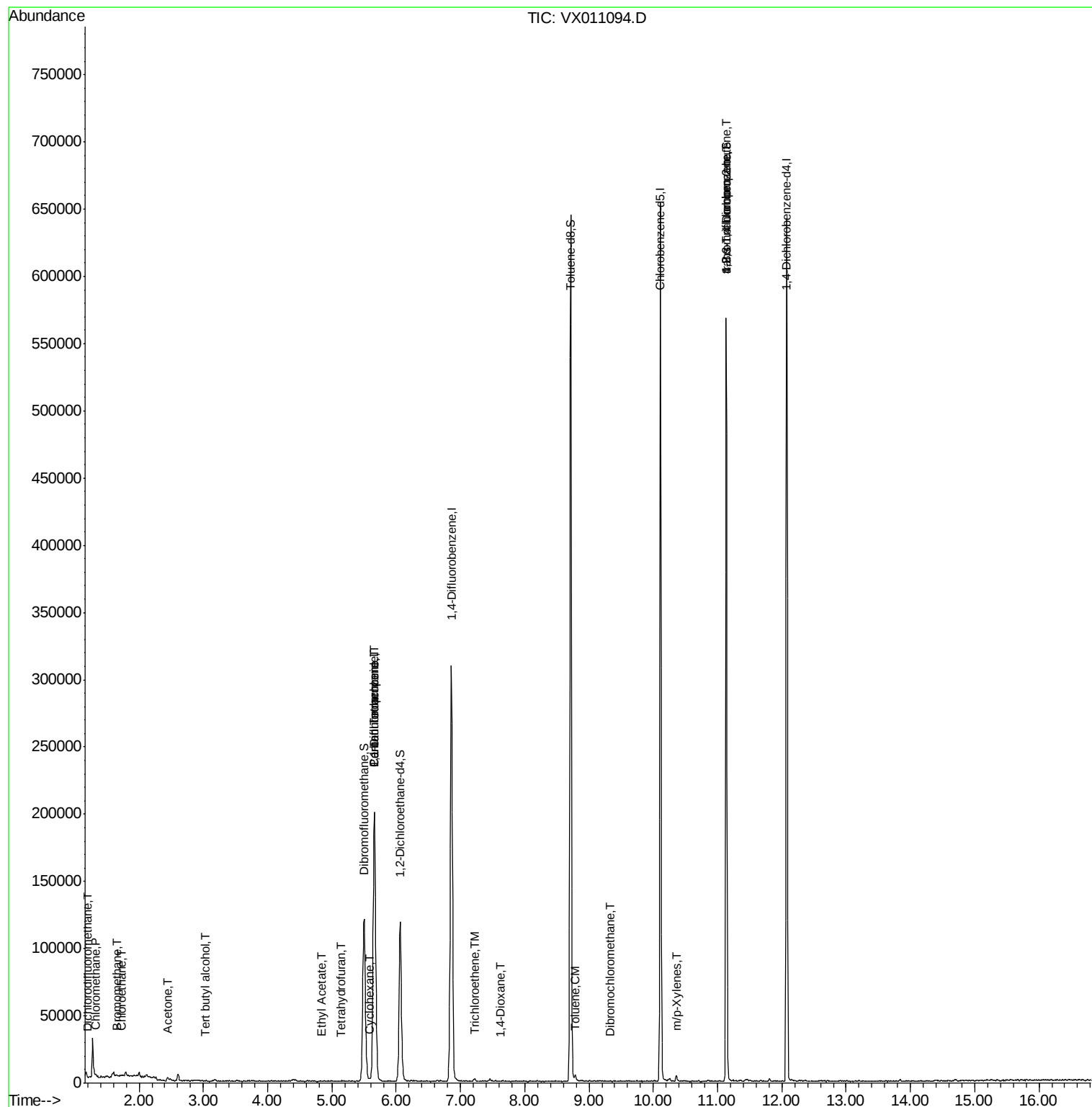
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	46	0.567	ug/l #	43
3) Chloromethane	1.33	50	438	0.234	ug/l #	24
5) Bromomethane	1.65	94	545	0.507	ug/l #	79
6) Chloroethane	1.73	64	469	0.387	ug/l #	89
11) Tert butyl alcohol	3.03	59	282	0.560	ug/l #	73
16) Acetone	2.45	43	2774	2.838	ug/l	99
29) Tetrahydrofuran	5.14	42	182	0.205	ug/l #	29
31) Cyclohexane	5.59	56	763	0.260	ug/l #	47
36) 1,1-Dichloropropene	5.66	75	13678	5.131	ug/l #	49
37) Ethyl Acetate	4.85	43	926	0.339	ug/l #	91
38) Carbon Tetrachloride	5.66	117	18255	6.572	ug/l #	16
44) Trichloroethene	7.22	130	642	0.266	ug/l	70
49) 1,4-Dioxane	7.62	88	22	0.360	ug/l #	1
52) Toluene	8.79	92	1196	0.223	ug/l	91
60) Dibromochloromethane	9.33	129	45	2.545	ug/l #	11
68) m/p-Xylenes	10.36	106	1132	0.279	ug/l	82
76) 1,2,3-Trichloropropane	11.13	75	69421	26.840	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	69421	66.567	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

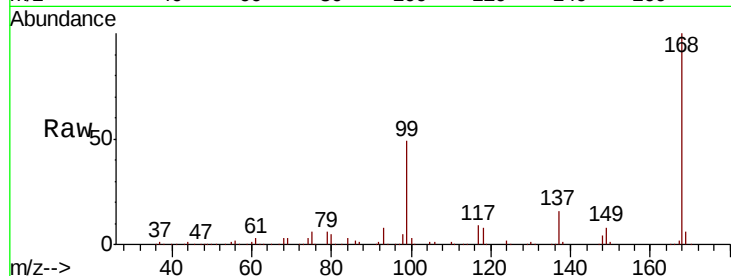
SU19-MSW0105

Tot Ion:168 Resp: 203426

Ion Ratio Lower Upper

168 100

99 49.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

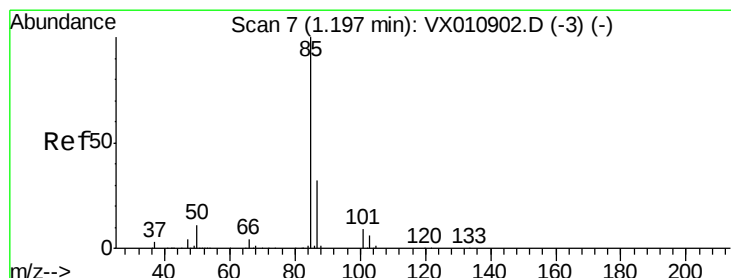
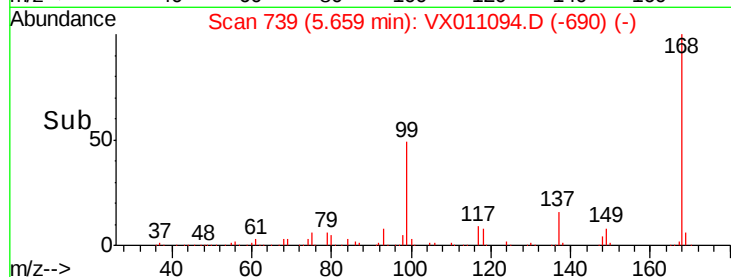
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.567 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011094.D

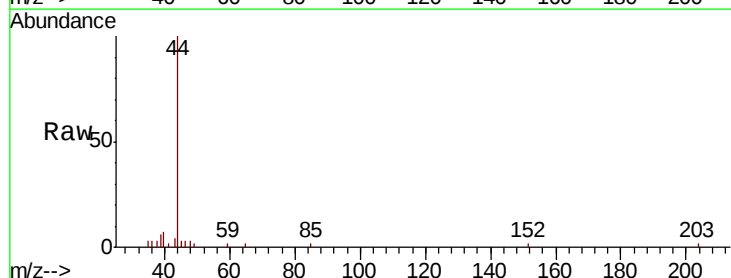
Acq: 26 Jul 2019 16:35

Tgt Ion: 85 Resp: 46

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

80

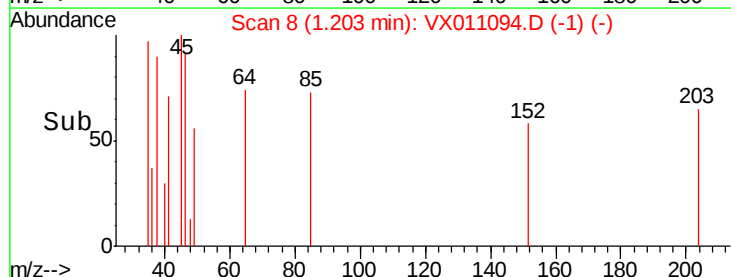
60

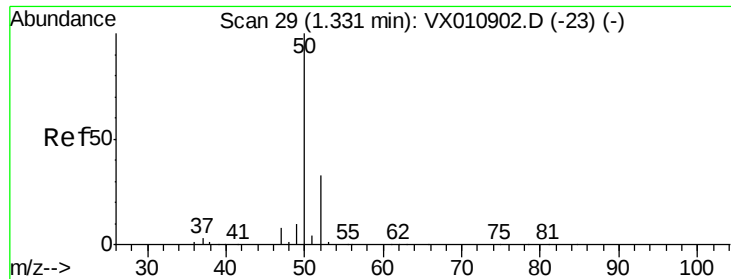
40

20

0

Time--> 1.18 1.19 1.20 1.21 1.22





#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

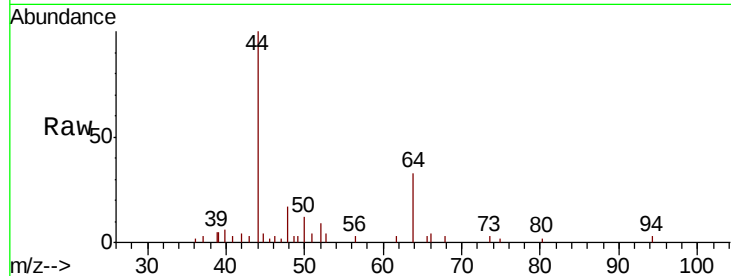
SU19-MSW0105

Tot Ion: 50 Resp: 438

Ion Ratio Lower Upper

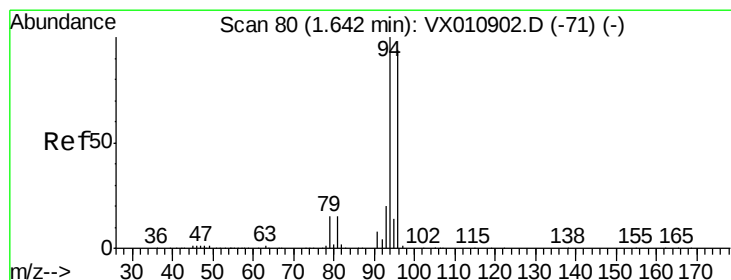
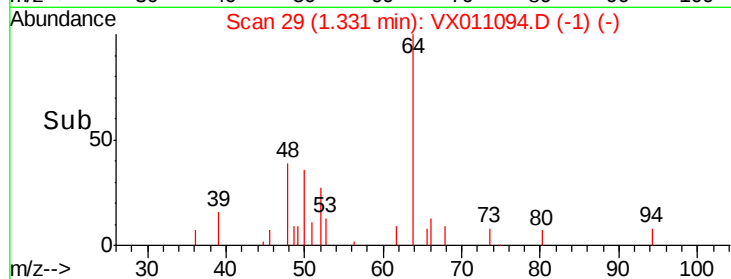
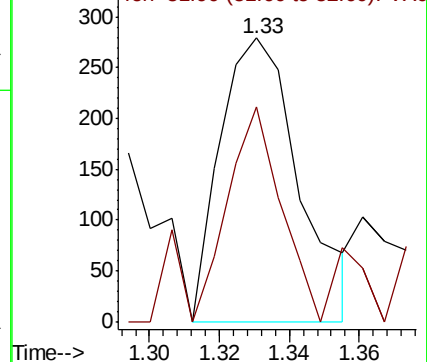
50 100

52 76.0 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: 0.507 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011094.D

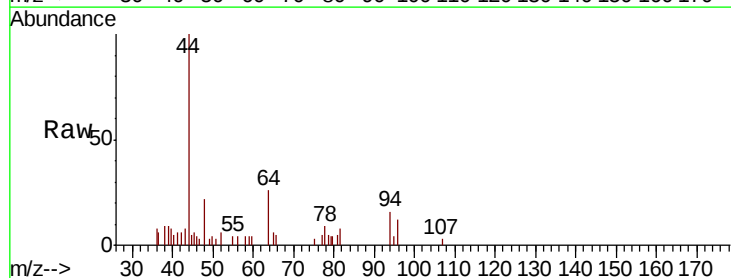
Acq: 26 Jul 2019 16:35

Tgt Ion: 94 Resp: 545

Ion Ratio Lower Upper

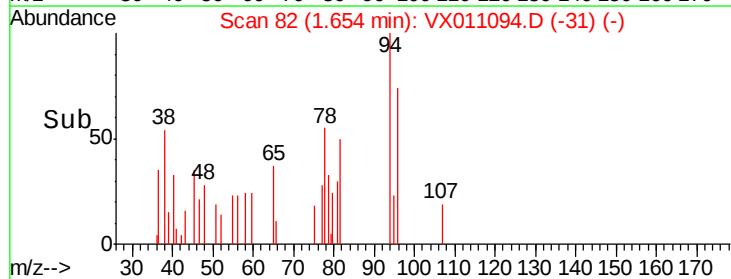
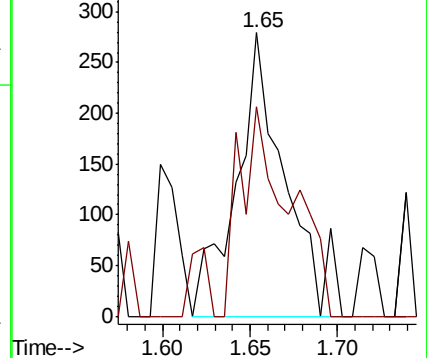
94 100

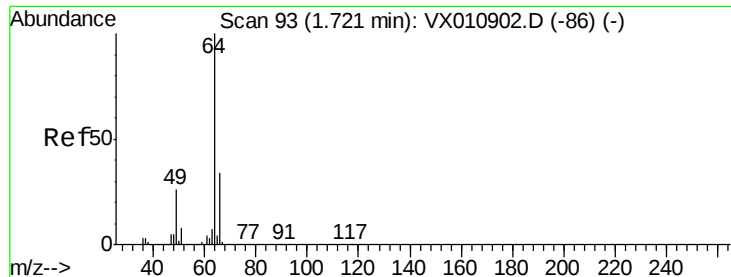
96 73.8 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.387 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

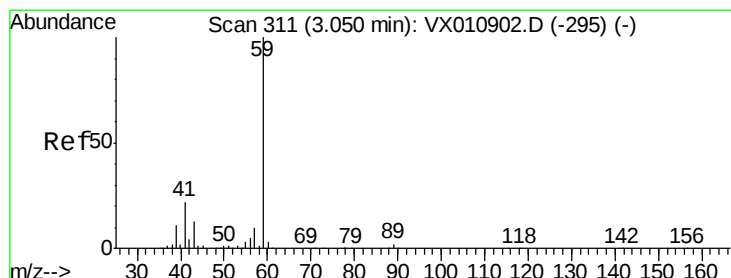
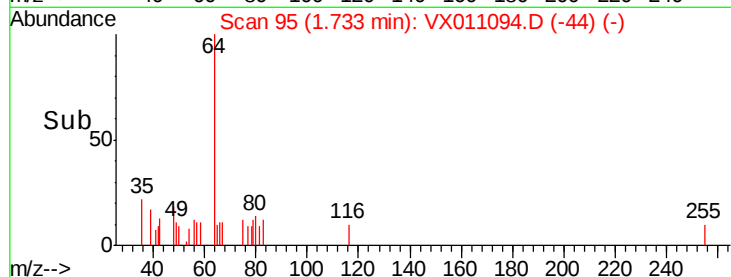
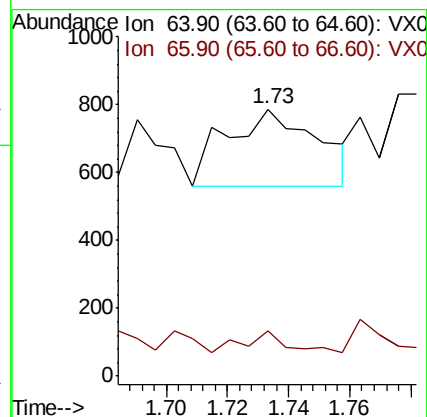
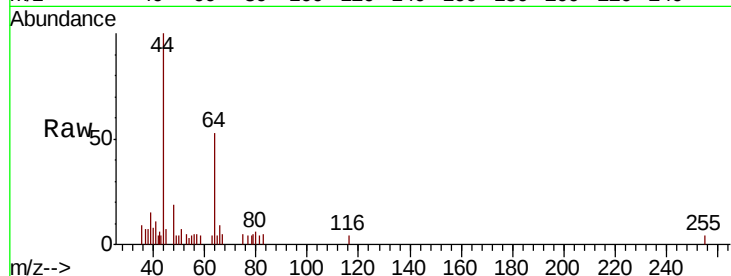
SU19-MSW0105

Tot Ion: 64 Resp: 469

Ion Ratio Lower Upper

64 100

66 27.3 27.0 40.6



#11

Tert butyl alcohol

Concen: 0.560 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX011094.D

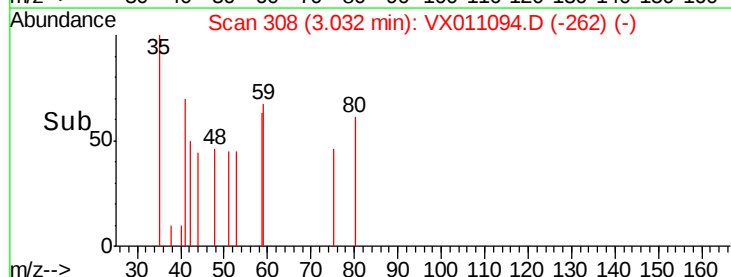
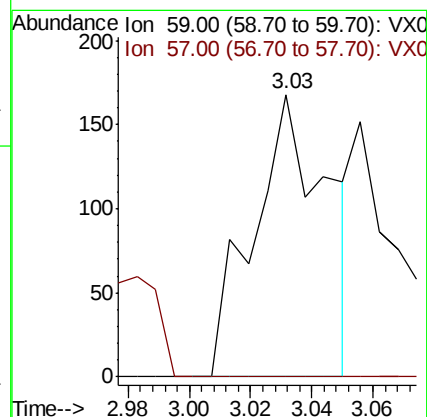
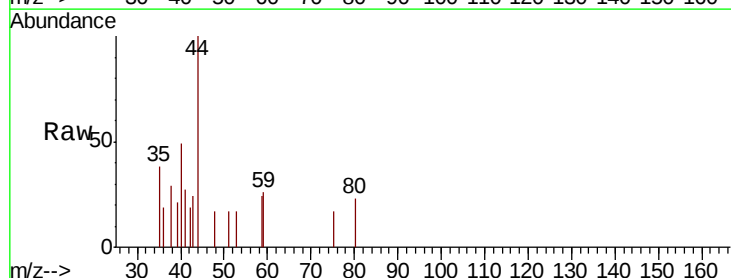
Acq: 26 Jul 2019 16:35

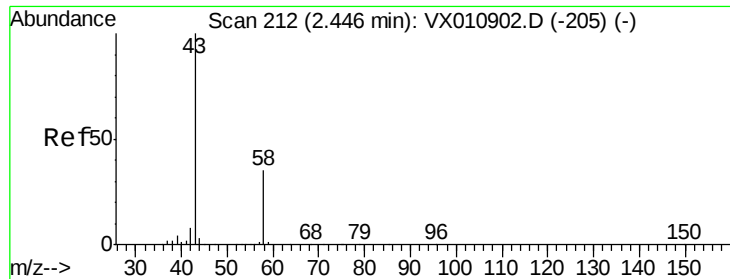
Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#16

Acetone

Concen: 2.838 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

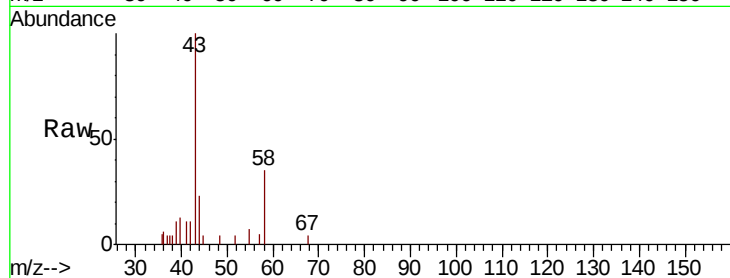
SU19-MSW0105

Tot Ion: 43 Resp: 2774

Ion Ratio Lower Upper

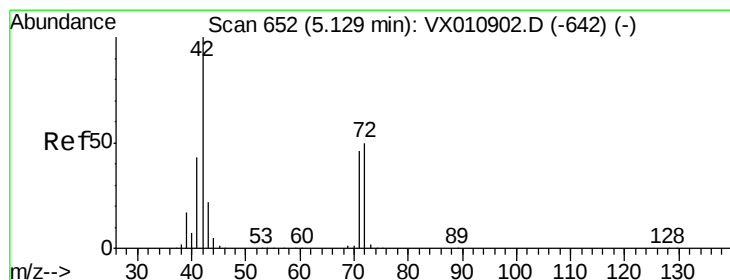
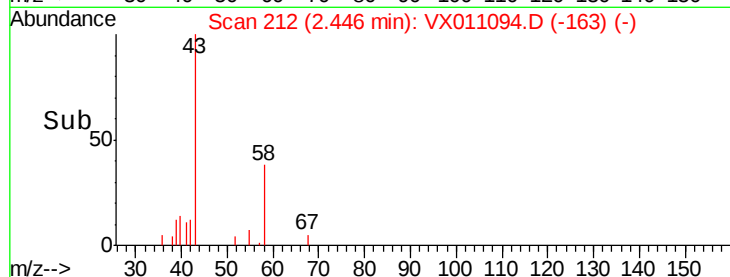
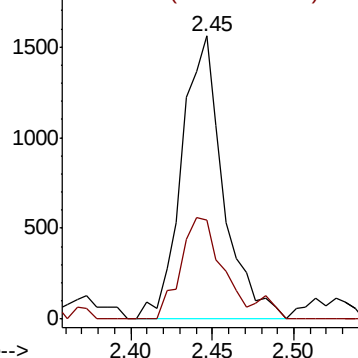
43 100

58 35.2 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#29

Tetrahydrofuran

Concen: 0.205 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

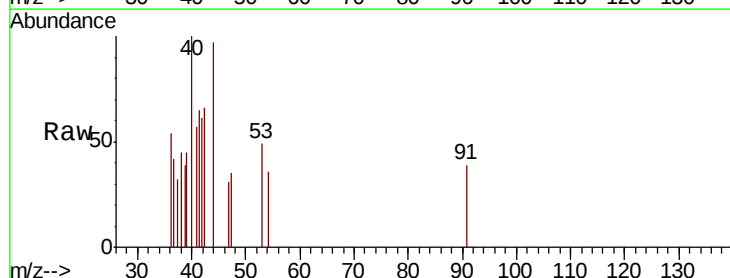
Tgt Ion: 42 Resp: 182

Ion Ratio Lower Upper

42 100

72 0.0 39.8 59.8#

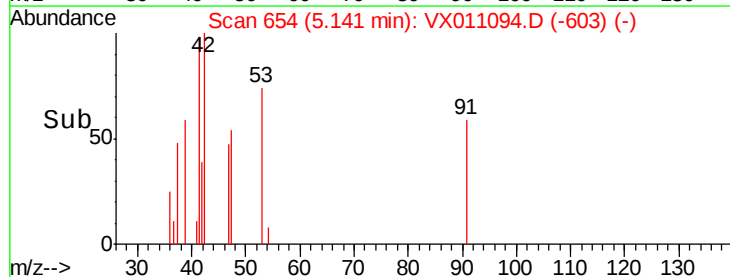
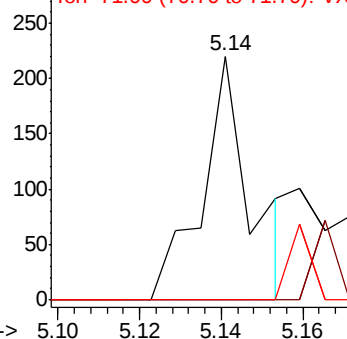
71 0.0 37.0 55.4#

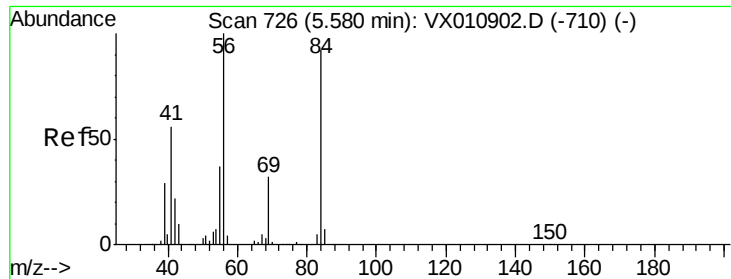


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

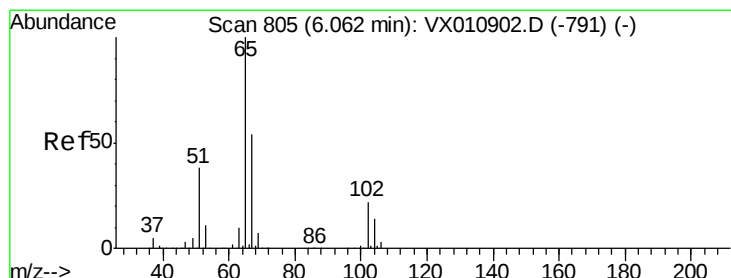
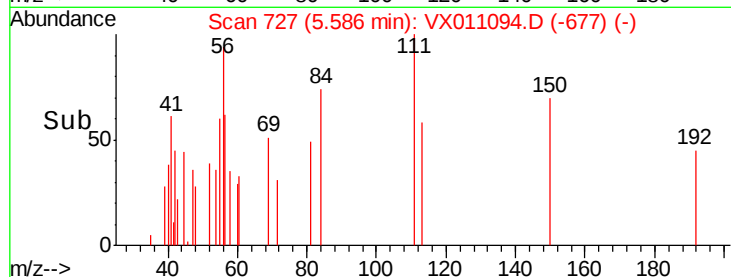
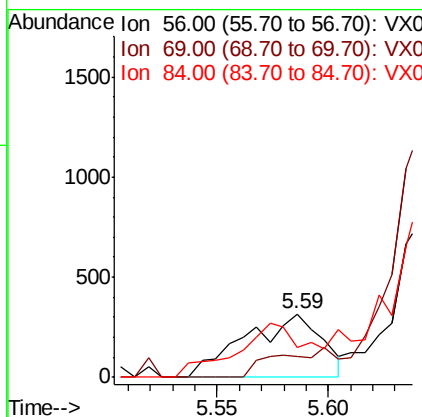
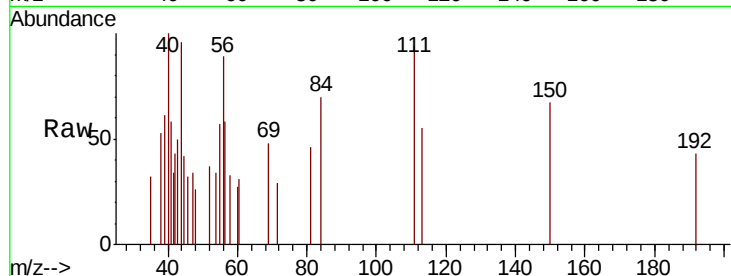




#31
Cyclohexane
Concen: 0.260 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX011094.D
Acq: 26 Jul 2019 16:35

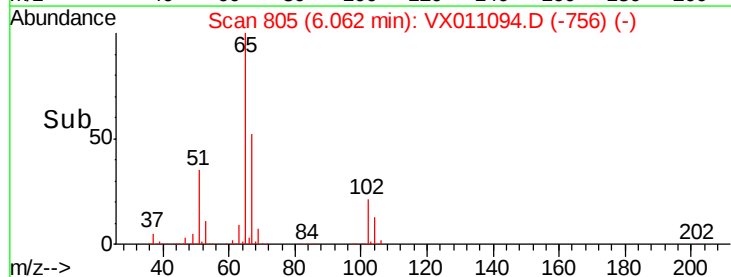
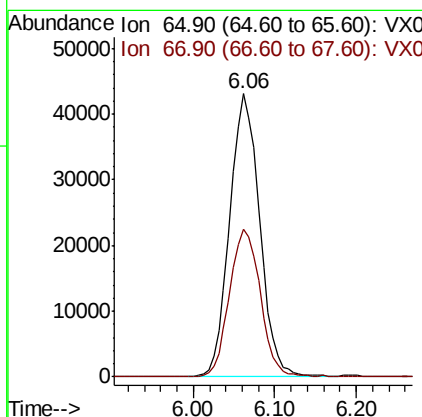
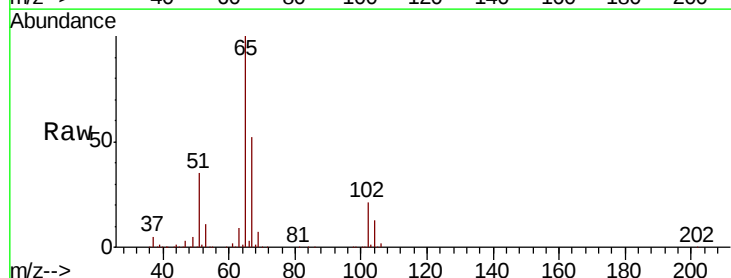
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0105

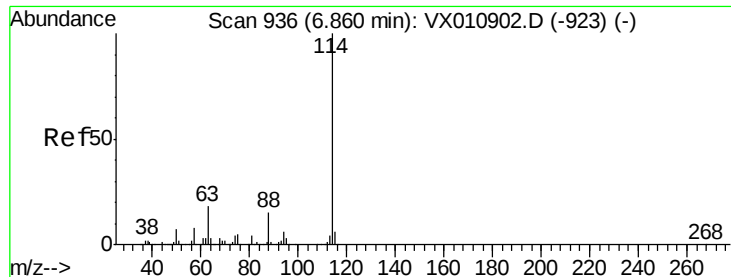
Tot Ion: 56 Resp: 763
Ion Ratio Lower Upper
56 100
69 32.6 25.8 38.8
84 24.4 73.8 110.6#



#33
1,2-Dichloroethane-d4
Concen: 50.645 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX011094.D
Acq: 26 Jul 2019 16:35

Tgt Ion: 65 Resp: 109603
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0105

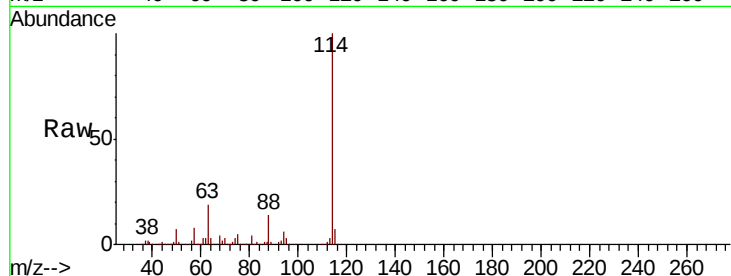
Tot Ion:114 Resp: 324540

Ion Ratio Lower Upper

114 100

63 18.9 0.0 35.6

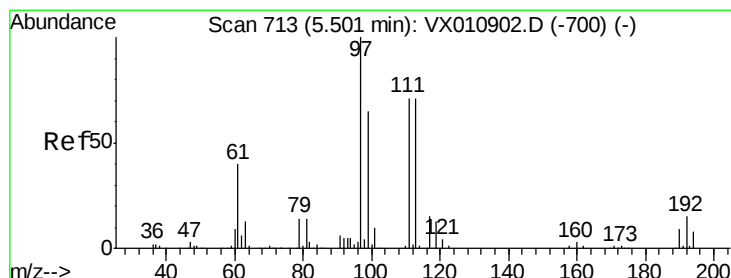
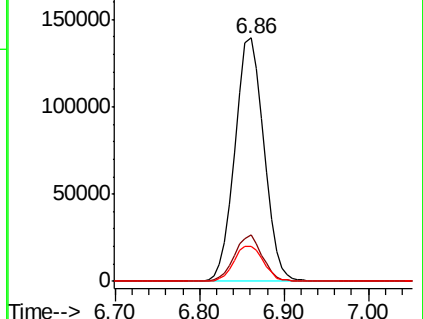
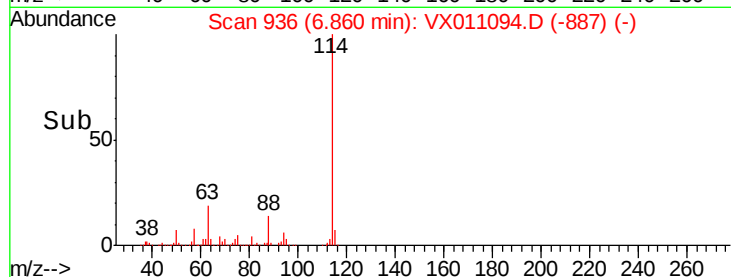
88 14.4 0.0 29.8



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: 49.151 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

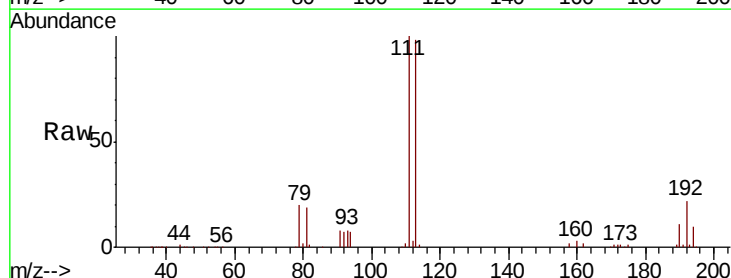
Tgt Ion:113 Resp: 101247

Ion Ratio Lower Upper

113 100

111 102.3 82.3 123.5

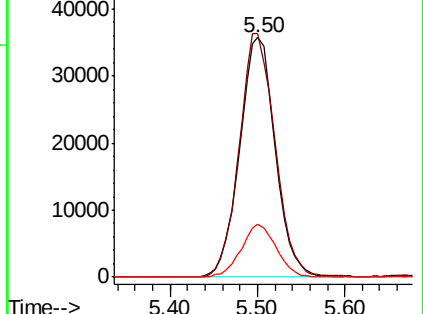
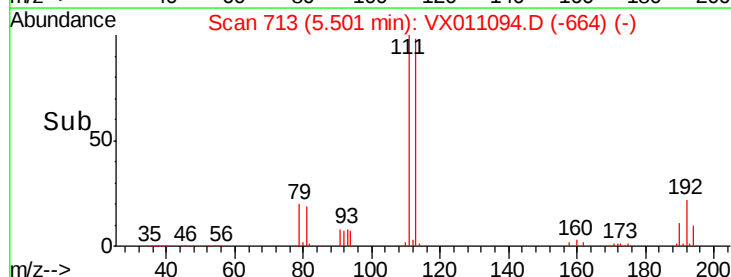
192 21.8 17.4 26.2

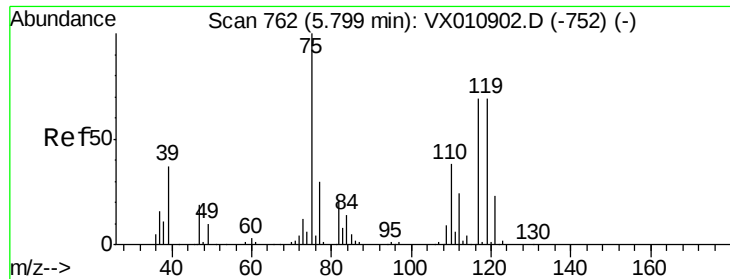


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.131 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

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ClientSampleId :

SU19-MSW0105

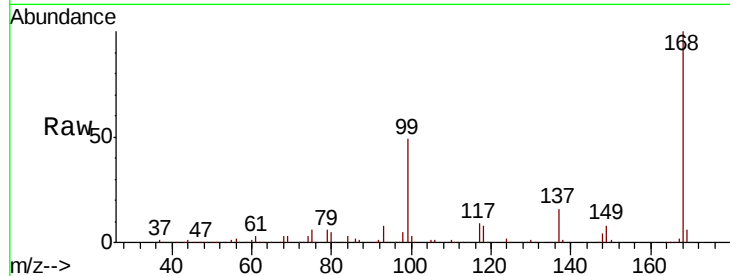
Tot Ion: 75 Resp: 13678

Ion Ratio Lower Upper

75 100

110 10.7 19.9 59.7#

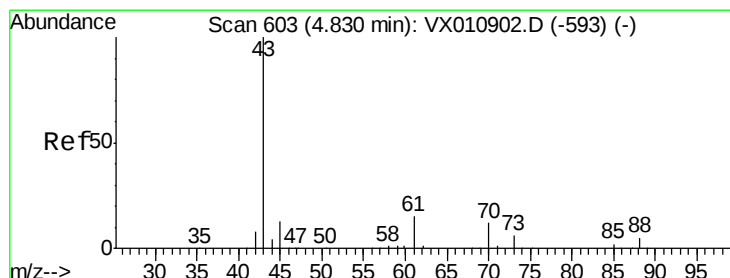
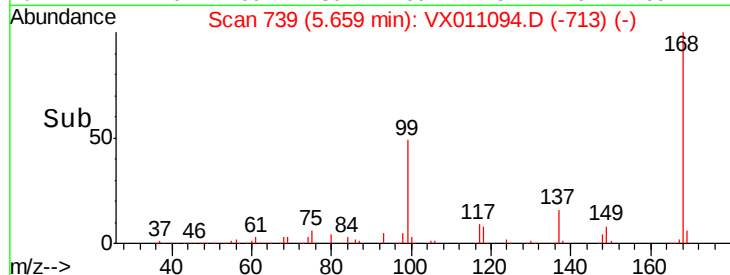
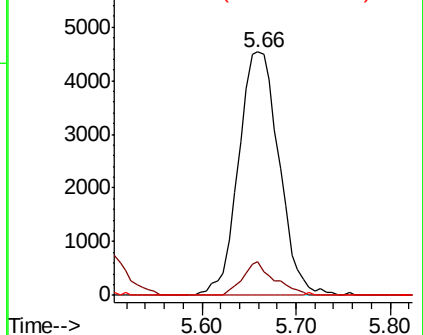
77 0.0 25.0 37.4#



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



#37

Ethyl Acetate

Concen: 0.339 ug/l

RT: 4.85 min Scan# 606

Delta R.T. 0.02 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

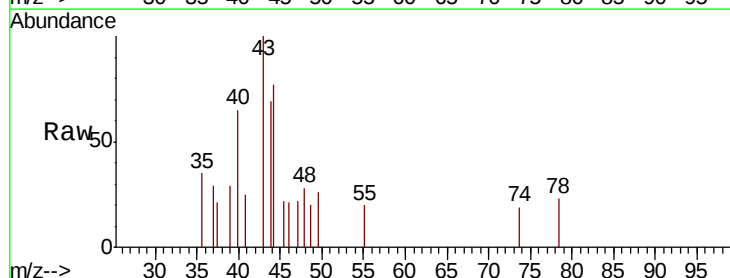
Tgt Ion: 43 Resp: 926

Ion Ratio Lower Upper

43 100

61 13.8 11.6 17.4

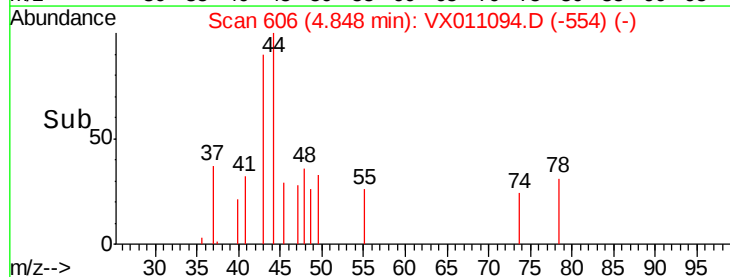
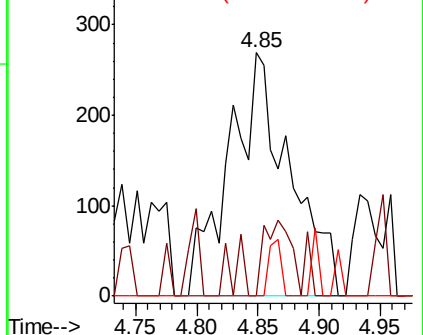
70 4.8 9.1 13.7#

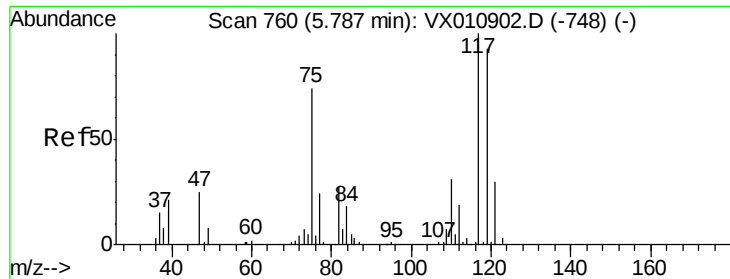


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.572 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0105

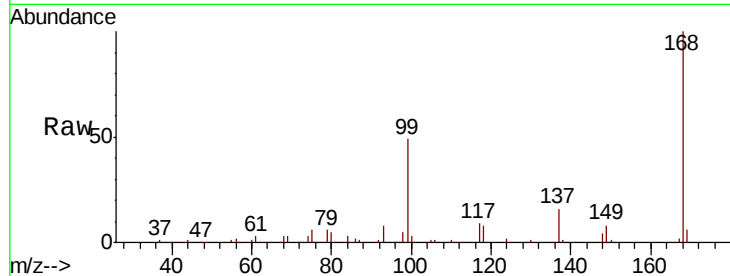
Tot Ion:117 Resp: 18255

Ion Ratio Lower Upper

117 100

119 3.7 74.2 111.2#

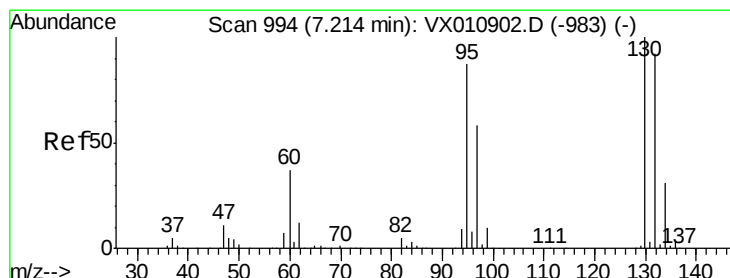
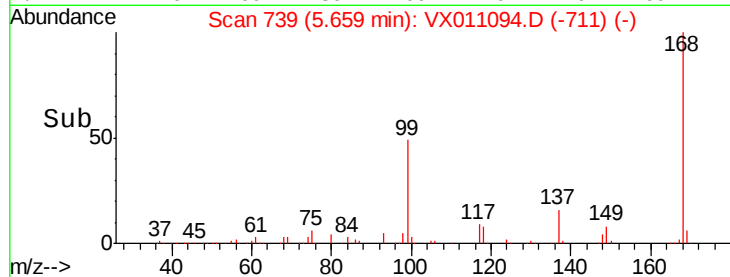
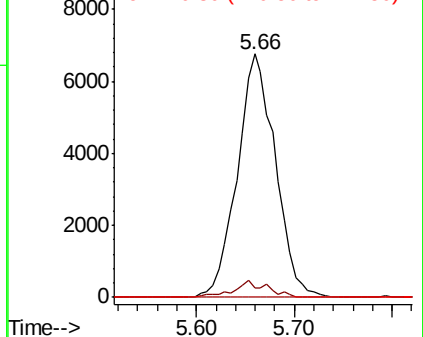
121 0.0 24.2 36.2#



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



#44

Trichloroethene

Concen: 0.266 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX011094.D

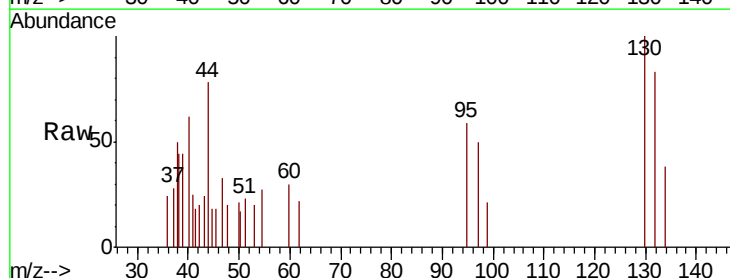
Acq: 26 Jul 2019 16:35

Tgt Ion:130 Resp: 642

Ion Ratio Lower Upper

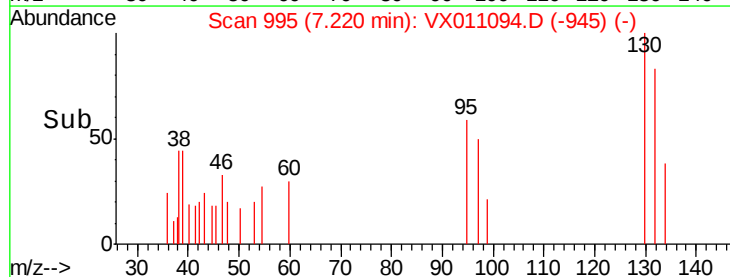
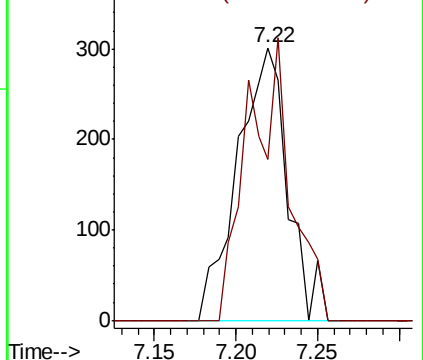
130 100

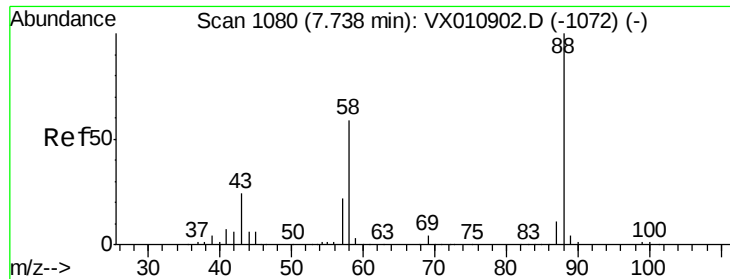
95 59.1 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

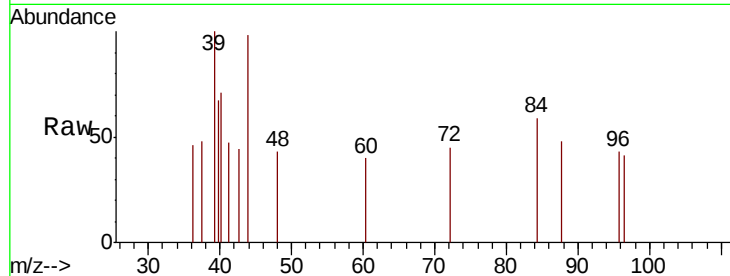




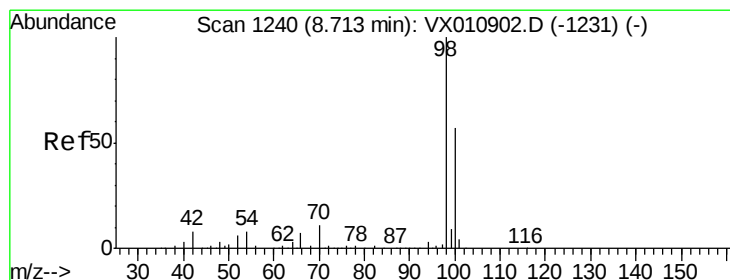
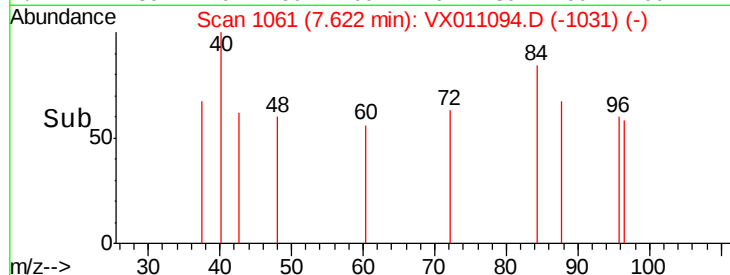
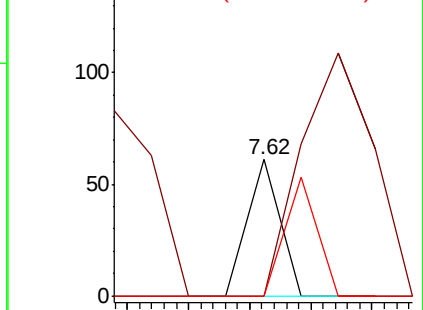
#49
1,4-Dioxane
Concen: 0.360 ug/l
RT: 7.62 min Scan# 1061
Delta R.T. -0.12 min
Lab File: VX011094.D
Acq: 26 Jul 2019 16:35

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0105

Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 404.5 22.9 34.3#
58 86.4 49.8 74.8#

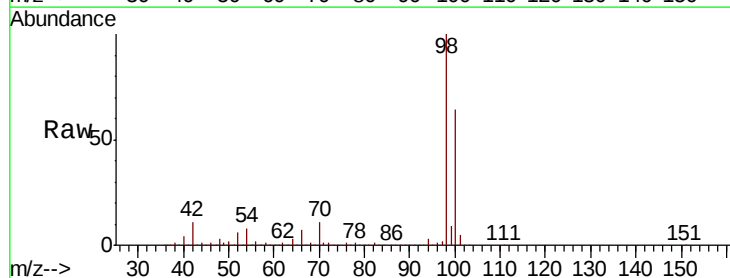


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

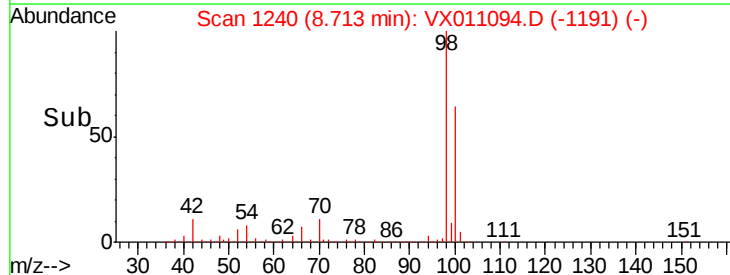
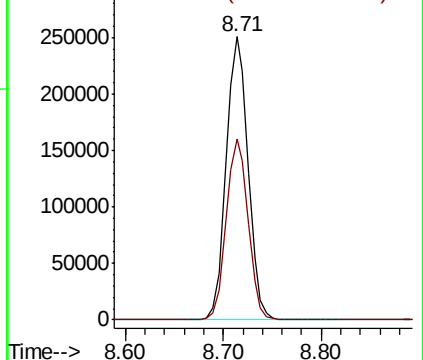


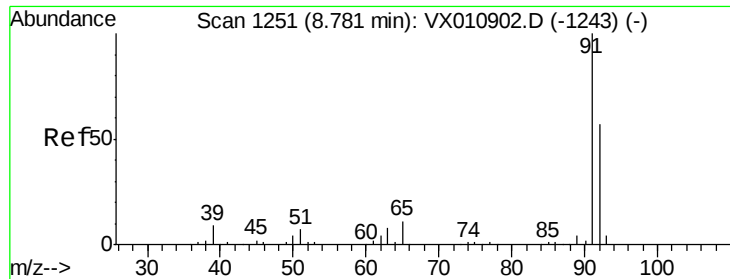
#50
Toluene-d8
Concen: 50.385 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011094.D
Acq: 26 Jul 2019 16:35

Tgt Ion: 98 Resp: 389273
Ion Ratio Lower Upper
98 100
100 63.9 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.223 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

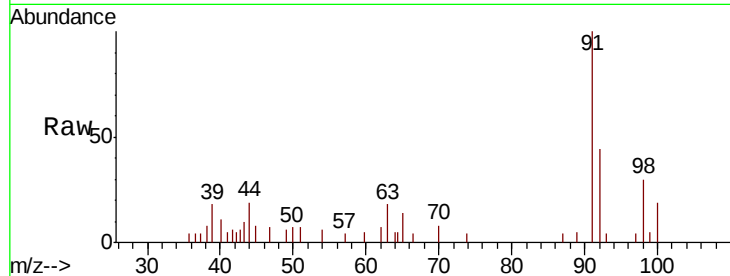
SU19-MSW0105

Tot Ion: 92 Resp: 1196

Ion Ratio Lower Upper

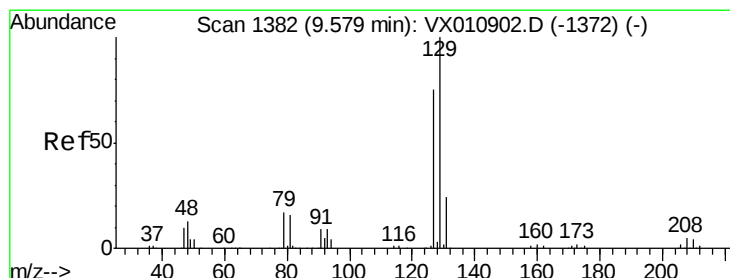
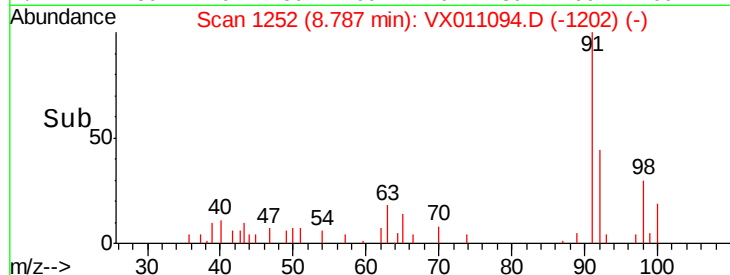
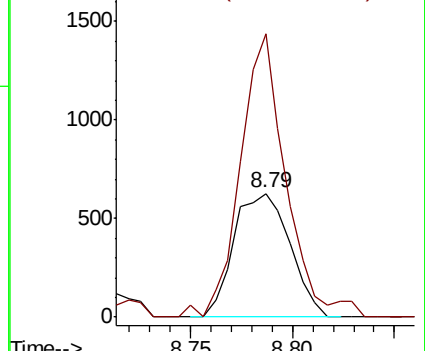
92 100

91 186.8 139.4 209.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#60

Dibromochloromethane

Concen: 2.545 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX011094.D

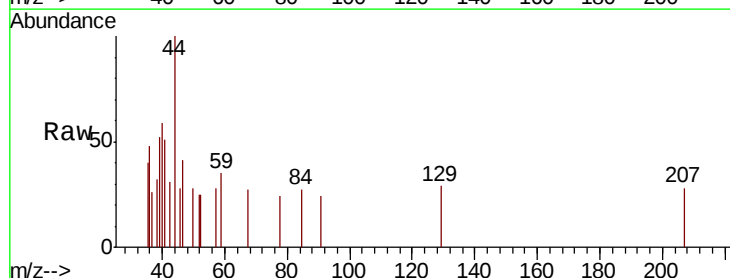
Acq: 26 Jul 2019 16:35

Tgt Ion: 129 Resp: 45

Ion Ratio Lower Upper

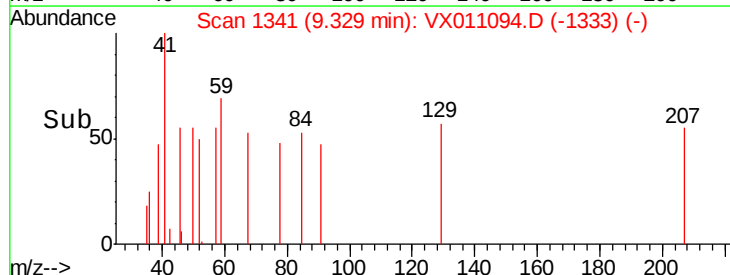
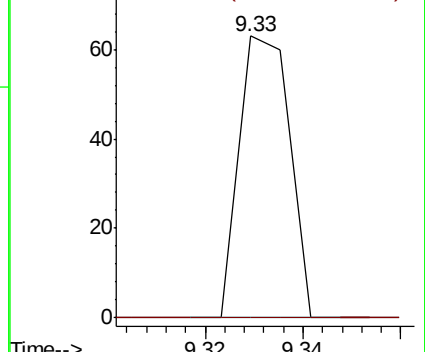
129 100

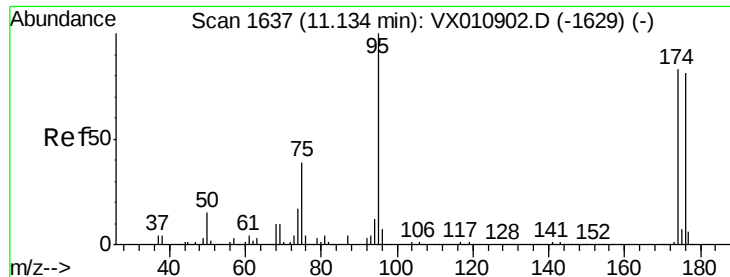
127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 48.275 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0105

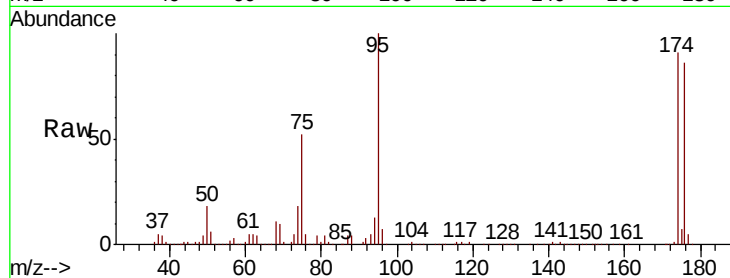
Tot Ion: 95 Resp: 137094

Ion Ratio Lower Upper

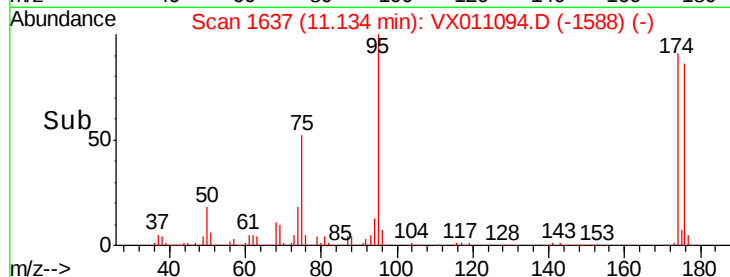
95 100

174 92.1 0.0 180.6

176 89.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011094.D (-1588) (-)



Ion 173.80 (173.50 to 174.50): VX011094.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011094.D (-1588) (-)

Time-->

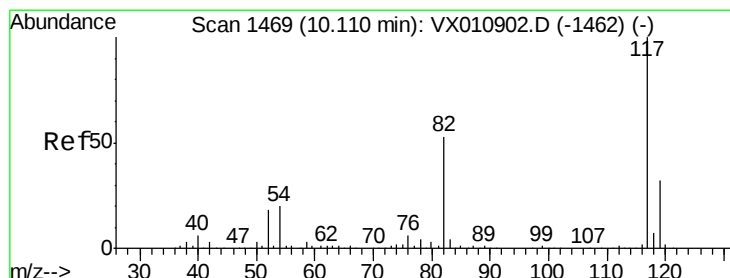
11.13

100000

50000

0

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

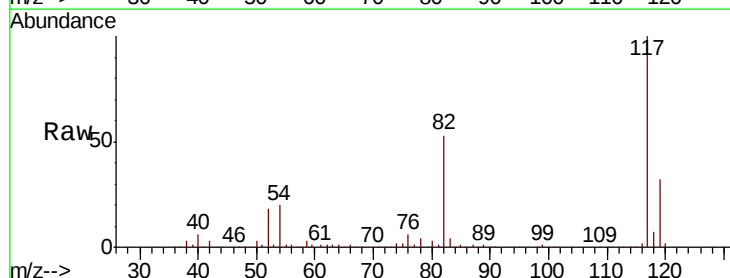
Tgt Ion: 117 Resp: 302875

Ion Ratio Lower Upper

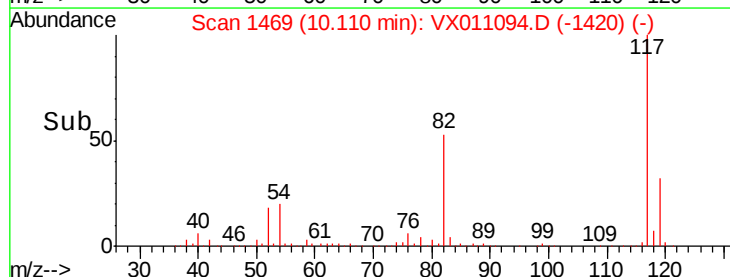
117 100

82 52.7 42.6 63.8

119 32.1 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VX011094.D (-1420) (-)



Ion 82.00 (81.70 to 82.70): VX011094.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011094.D (-1420) (-)

Time-->

10.11

300000

250000

200000

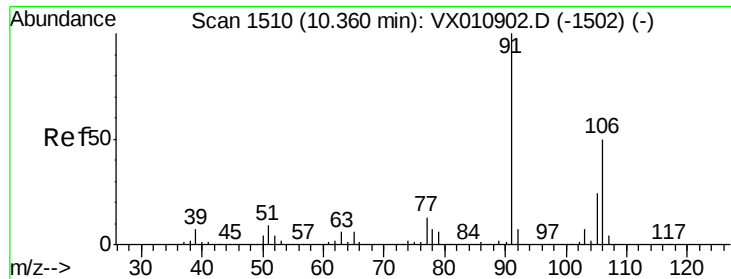
150000

100000

50000

0

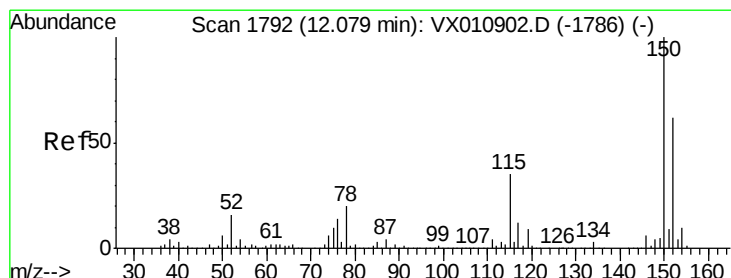
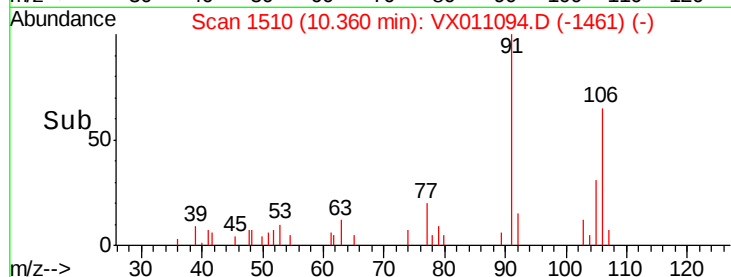
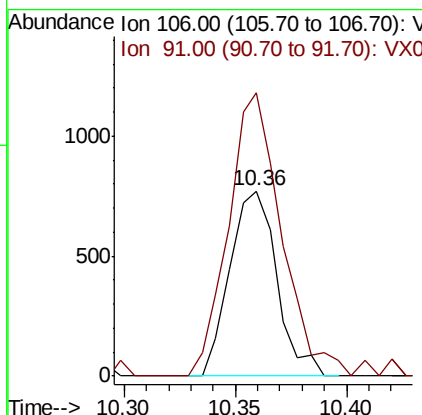
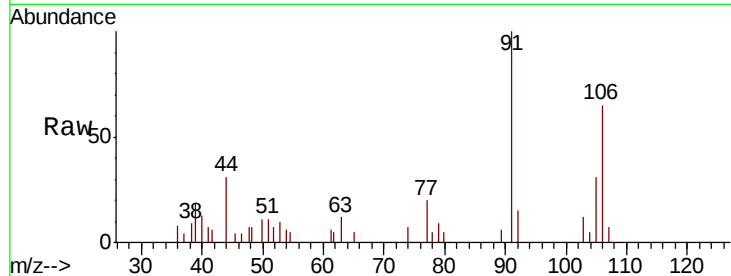
10.00 10.10 10.20



#68
m/p-Xvlenes
Concen: 0.279 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX011094.D
Acq: 26 Jul 2019 16:35

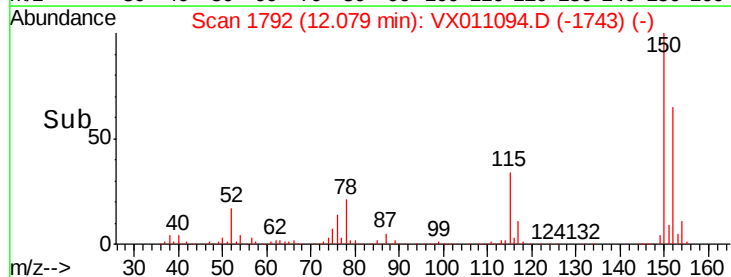
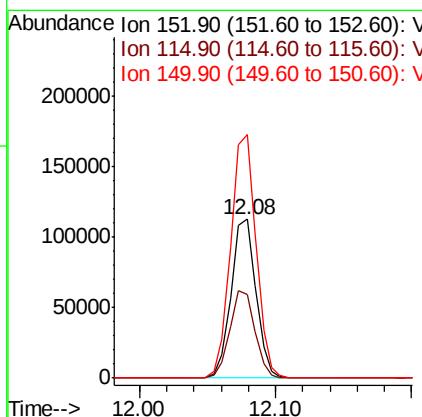
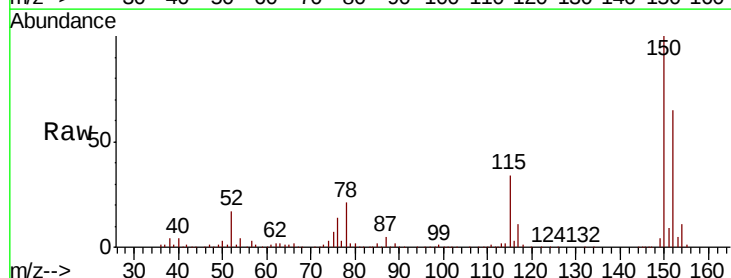
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0105

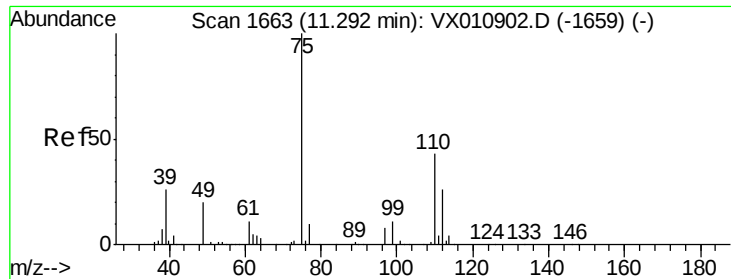
Tot Ion:106 Resp: 1132
Ion Ratio Lower Upper
106 100
91 172.7 160.1 240.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011094.D
Acq: 26 Jul 2019 16:35

Tgt Ion:152 Resp: 143332
Ion Ratio Lower Upper
152 100
115 55.9 39.7 119.1
150 156.0 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 26.840 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

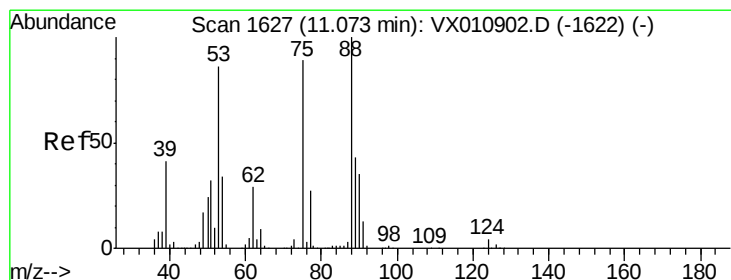
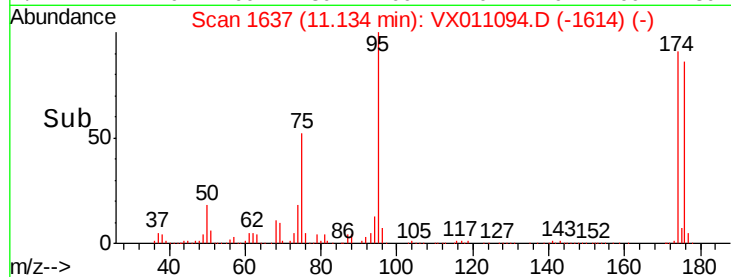
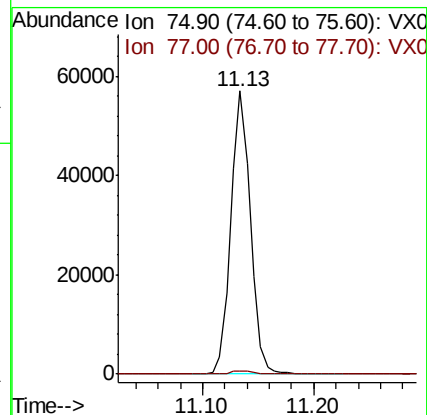
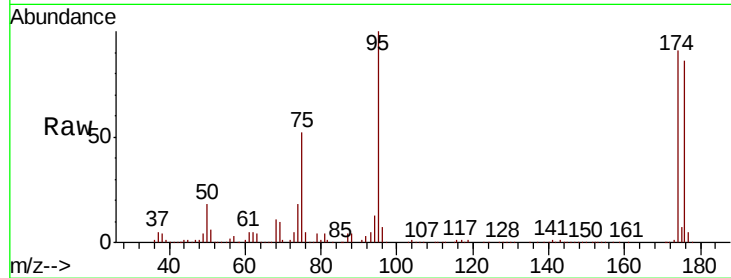
SU19-MSW0105

Tot Ion: 75 Resp: 69421

Ion Ratio Lower Upper

75 100

77 1.2 21.3 64.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.567 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011094.D

Acq: 26 Jul 2019 16:35

Tgt Ion: 75 Resp: 69421

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.1 38.5 57.7#

