

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010260.D
 Acq On : 12 Jun 2019 18:55
 Operator : JC/SP
 Sample : K3309-01 200X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-190610

Quant Time: Jun 13 01:29:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	316583	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	478234	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	432518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	205731	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	142052	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	
35) Dibromofluoromethane	5.50	113	147299	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	8.71	98	560417	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.13	95	193596	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	

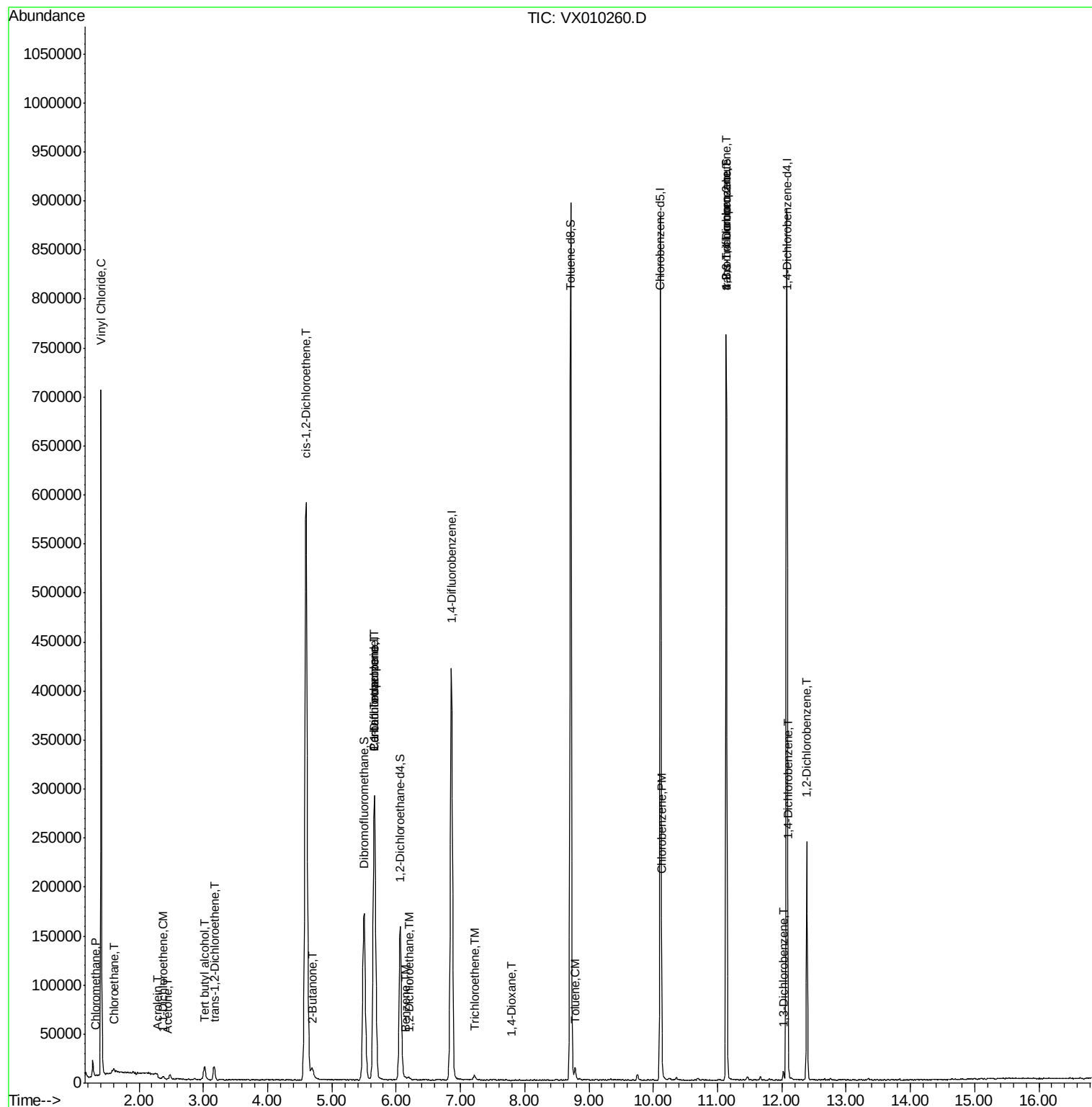
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	829	0.287	ug/l #	24
4) Vinyl Chloride	1.41	62	471050	173.245	ug/l	100
6) Chloroethane	1.61	64	2543	1.855	ug/l #	47
11) Tert butyl alcohol	3.01	59	7536	9.955	ug/l #	77
12) 1,1-Dichloroethene	2.38	96	863	0.303	ug/l #	49
13) Acrolein	2.29	56	122	0.884	ug/l	86
16) Acetone	2.45	43	603	0.415	ug/l #	58
21) trans-1,2-Dichloroethene	3.17	96	6140	1.951	ug/l	81
25) 2-Butanone	4.69	43	597	0.276	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	419458	119.817	ug/l	68
36) 1,1-Dichloropropene	5.66	75	19255	4.935	ug/l #	52
38) Carbon Tetrachloride	5.66	117	27330	6.189	ug/l #	15
40) Benzene	6.15	78	2796	0.232	ug/l	99
42) 1,2-Dichloroethane	6.20	62	2395	0.622	ug/l	99
44) Trichloroethene	7.22	130	2132	0.586	ug/l	85
49) 1,4-Dioxane	7.80	88	23	0.254	ug/l #	1
52) Toluene	8.78	92	3910	0.493	ug/l	100
65) Chlorobenzene	10.13	112	3155	0.353	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	88448	21.494	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	88448	47.489	ug/l #	10
87) 1,3-Dichlorobenzene	12.02	146	2955	0.425	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	10769	1.536	ug/l	83
91) 1,2-Dichlorobenzene	12.39	146	84742	12.531	ug/l	96

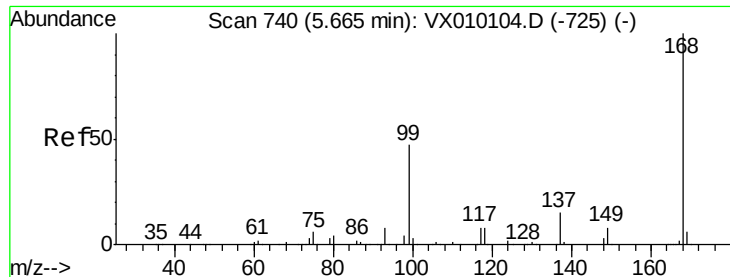
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061219\
Data File : VX010260.D
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Quant Time: Jun 13 01:29:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

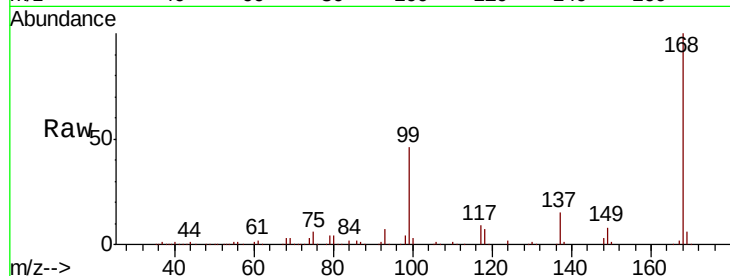
SS043MW009-190610

Tot Ion:168 Resp: 316583

Ion Ratio Lower Upper

168 100

99 45.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

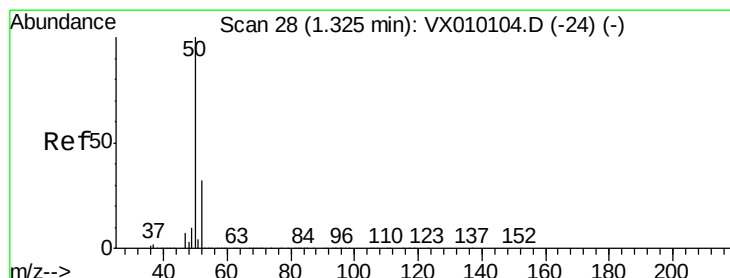
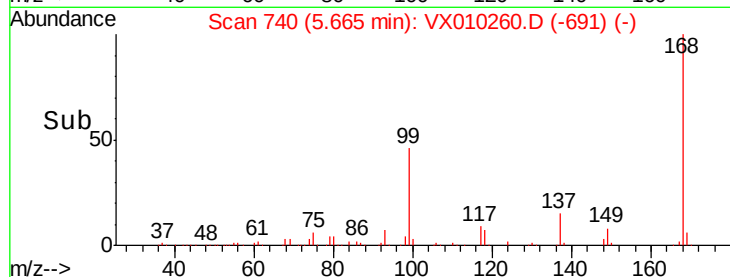
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.287 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010260.D

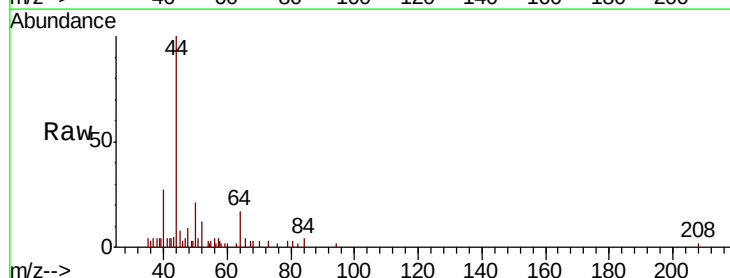
Acq: 12 Jun 2019 18:55

Tgt Ion: 50 Resp: 829

Ion Ratio Lower Upper

50 100

52 75.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

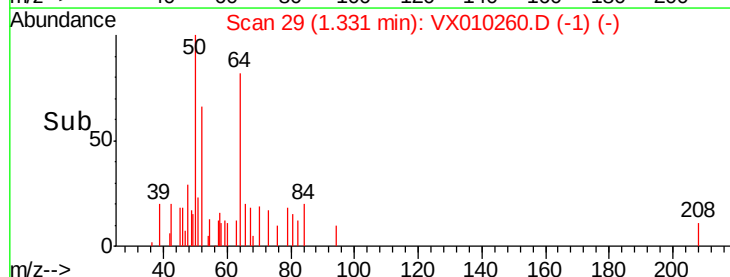
600

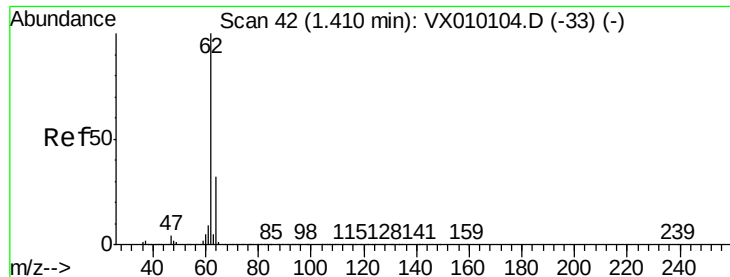
400

200

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 173.245 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

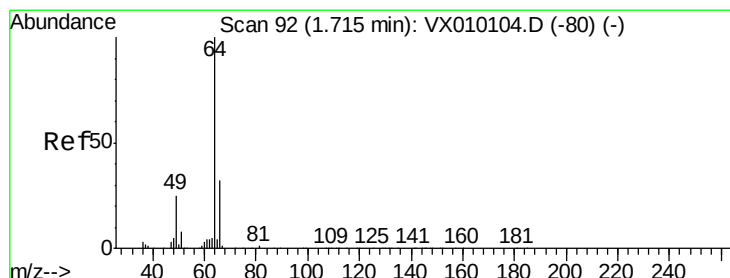
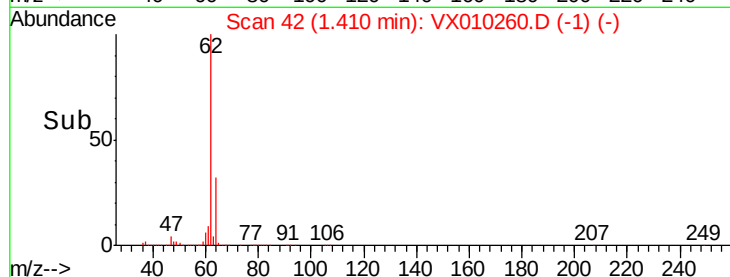
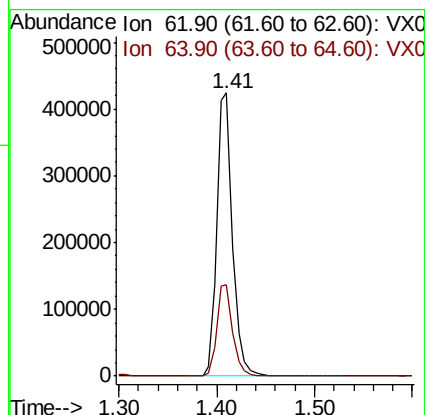
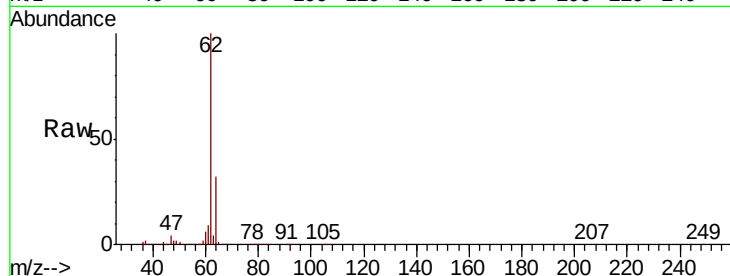
SS043MW009-190610

Tot Ion: 62 Resp: 471050

Ion Ratio Lower Upper

62 100

64 32.0 25.7 38.5



#6

Chloroethane

Concen: 1.855 ug/l

RT: 1.61 min Scan# 74

Delta R.T. -0.11 min

Lab File: VX010260.D

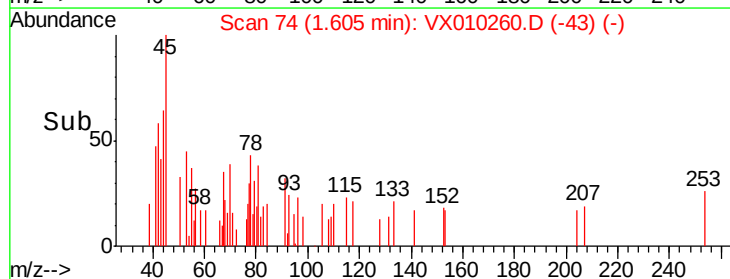
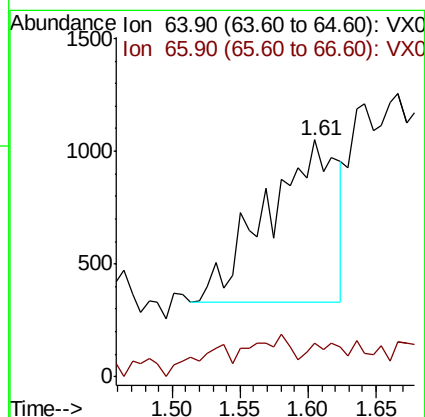
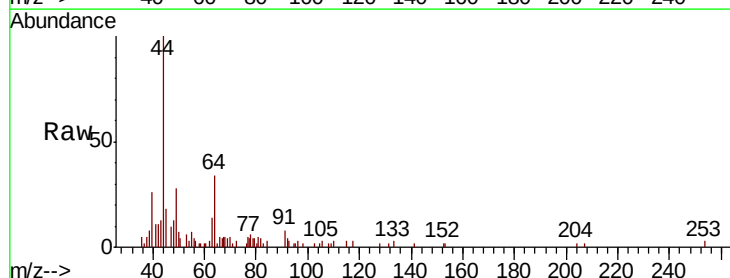
Acq: 12 Jun 2019 18:55

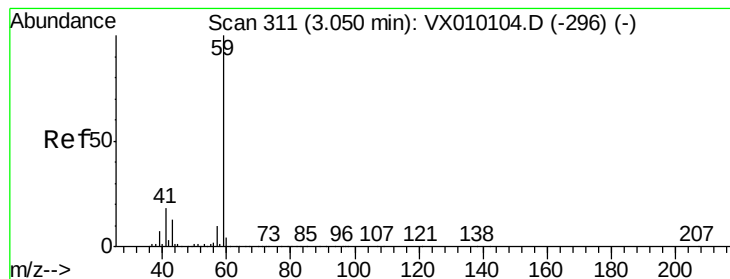
Tgt Ion: 64 Resp: 2543

Ion Ratio Lower Upper

64 100

66 2.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 9.955 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

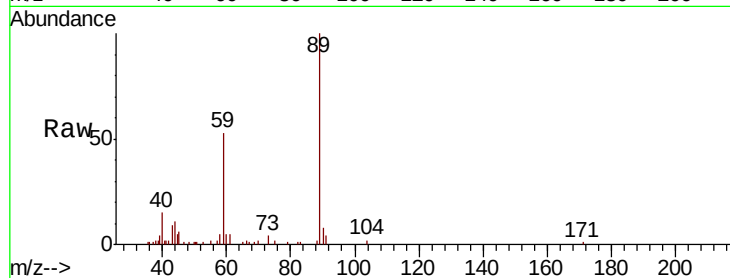
SS043MW009-190610

Tot Ion: 59 Resp: 7536

Ion Ratio Lower Upper

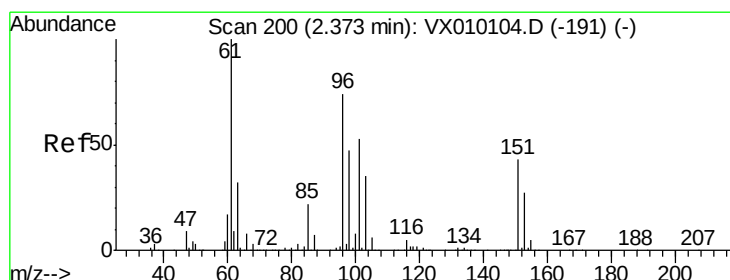
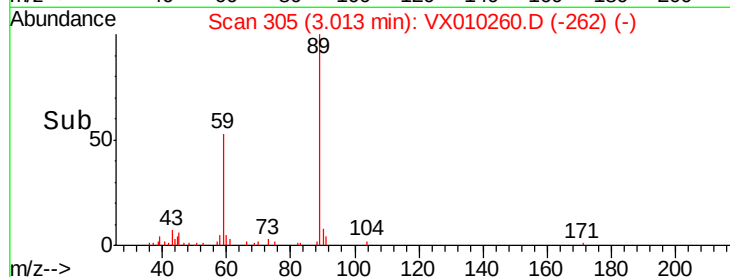
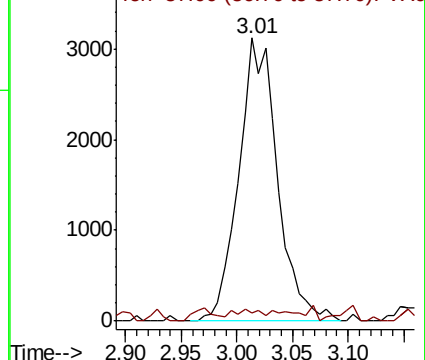
59 100

57 1.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#12

1,1-Dichloroethene

Concen: 0.303 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

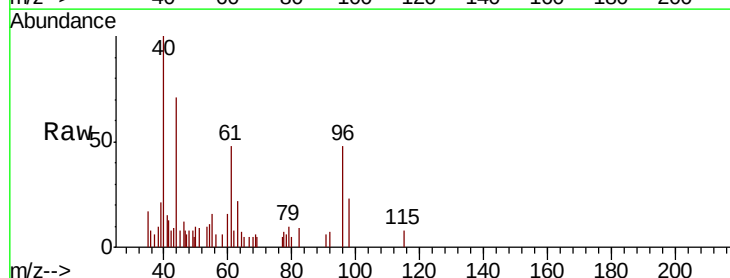
Tgt Ion: 96 Resp: 863

Ion Ratio Lower Upper

96 100

61 89.4 140.7 211.1#

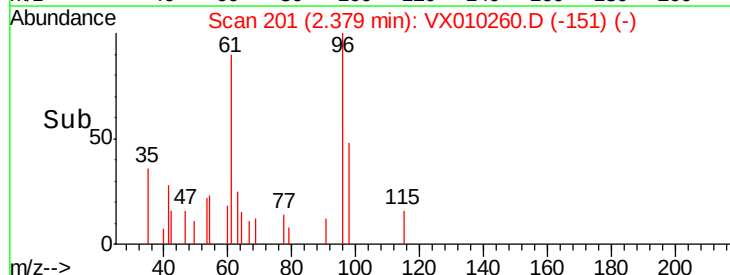
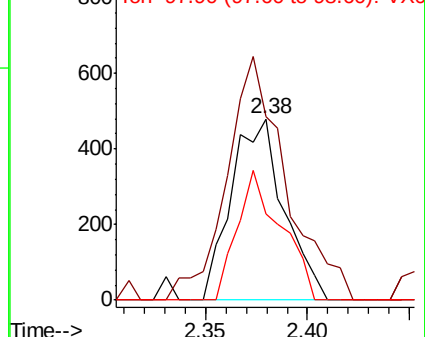
98 47.8 50.1 75.1#

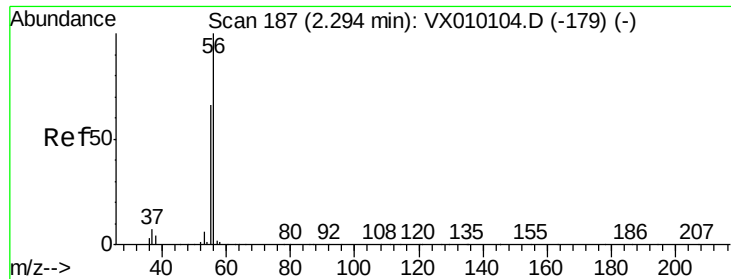


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

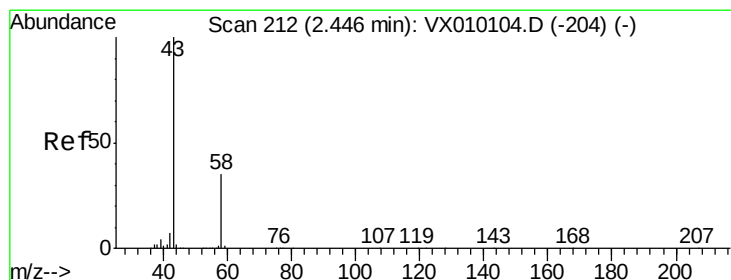
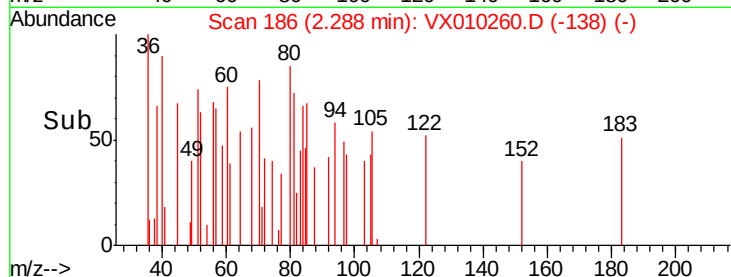
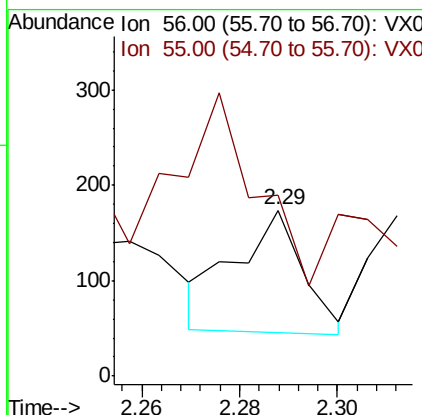
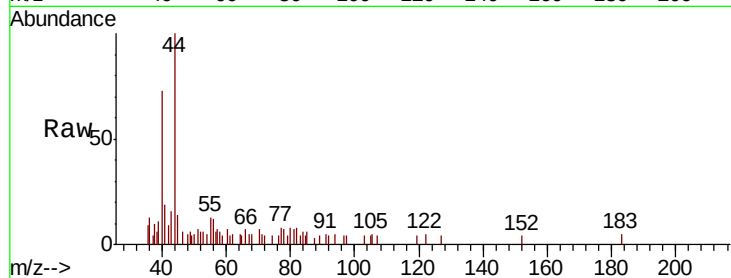




#13
Acrolein
Concen: 0.884 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX010260.D
Acq: 12 Jun 2019 18:55

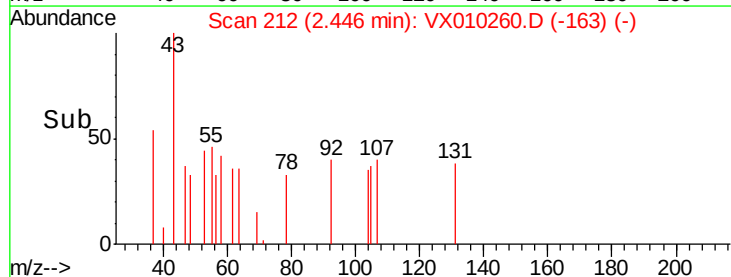
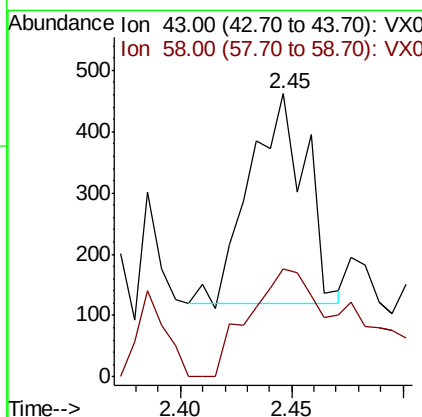
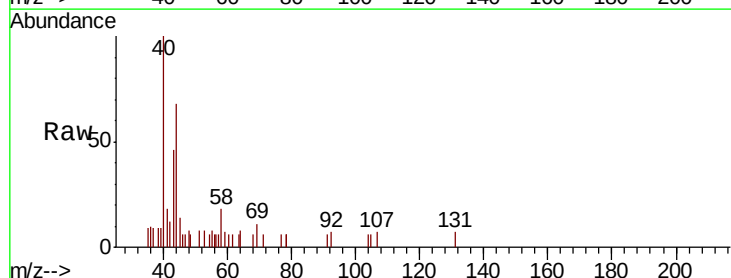
Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-190610

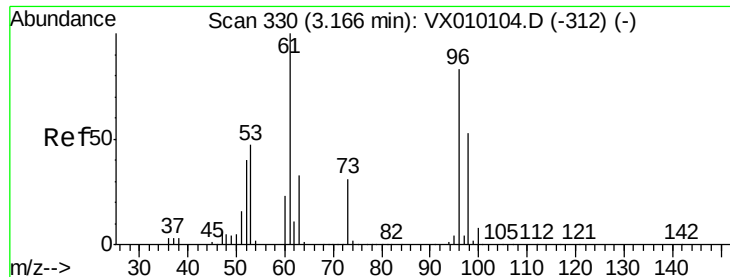
Tot Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 82.8 57.0 85.4



#16
Acetone
Concen: 0.415 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX010260.D
Acq: 12 Jun 2019 18:55

Tgt Ion: 43 Resp: 603
Ion Ratio Lower Upper
43 100
58 51.6 23.2 34.8#





#21

trans-1,2-Dichloroethene

Concen: 1.951 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

SS043MW009-190610

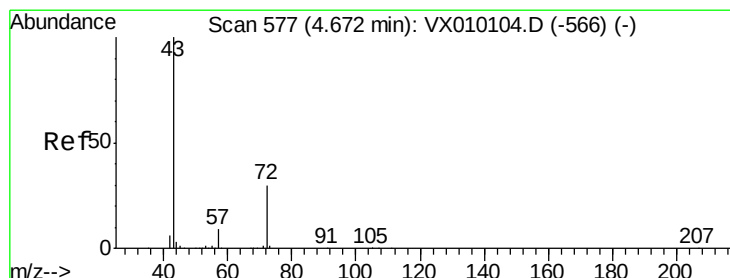
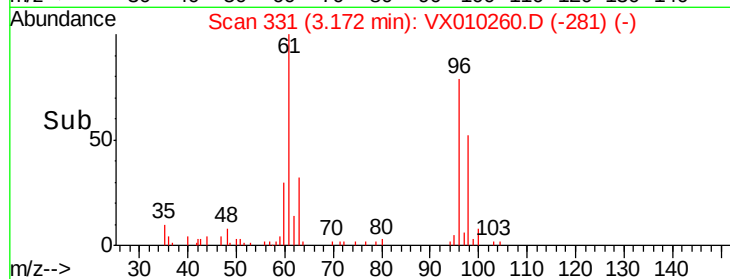
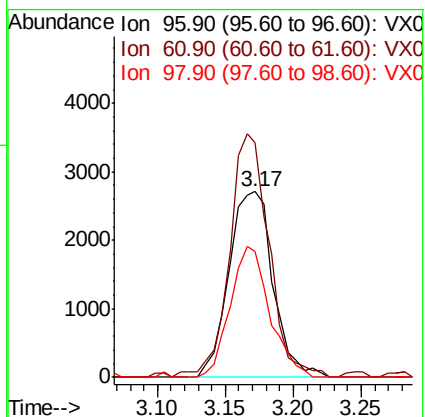
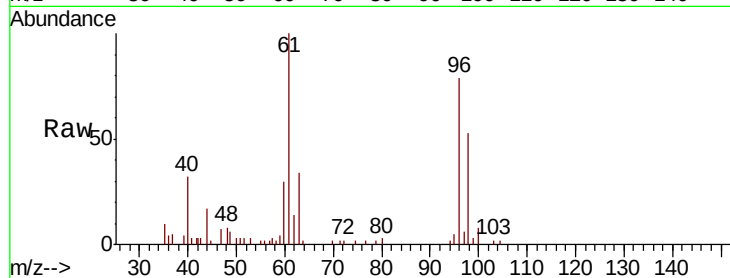
Tot Ion: 96 Resp: 6140

Ion Ratio Lower Upper

96 100

61 126.2 125.7 188.5

98 67.5 49.0 73.6



#25

2-Butanone

Concen: 0.276 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010260.D

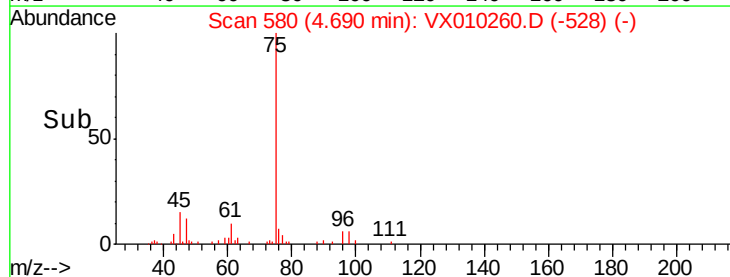
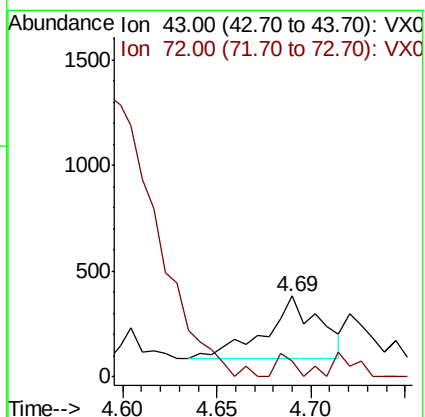
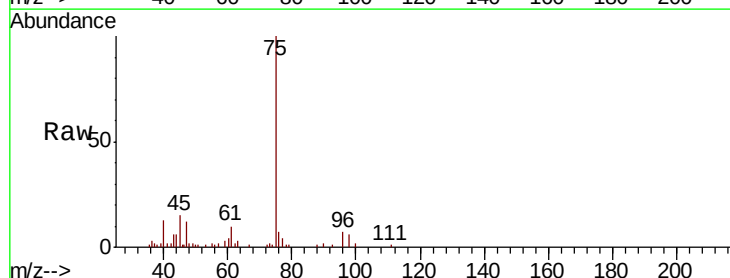
Acq: 12 Jun 2019 18:55

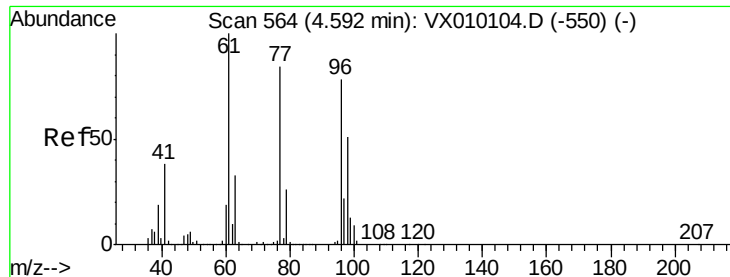
Tgt Ion: 43 Resp: 597

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#



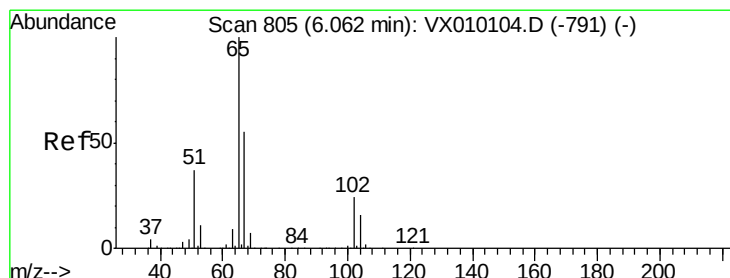
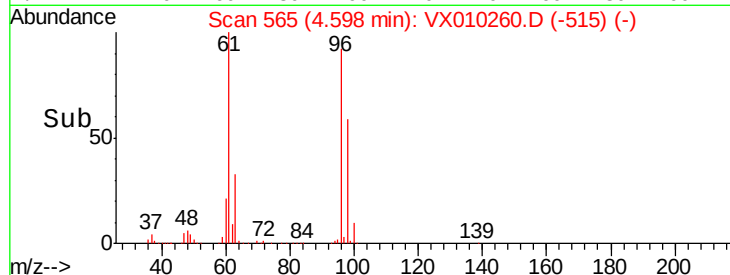
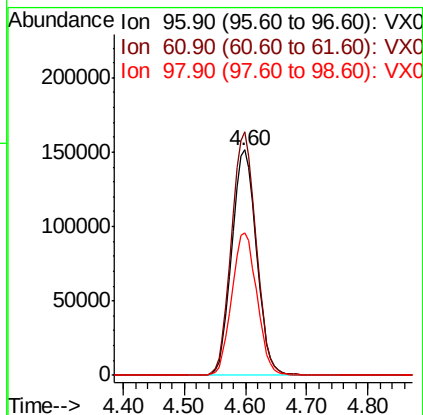
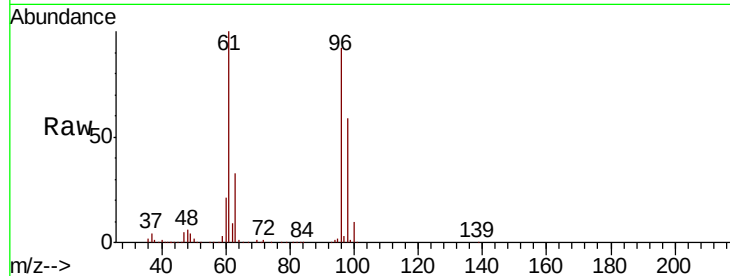


#27

cis-1,2-Dichloroethene
 Concen: 119.817 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX010260.D
 Acq: 12 Jun 2019 18:55

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-190610

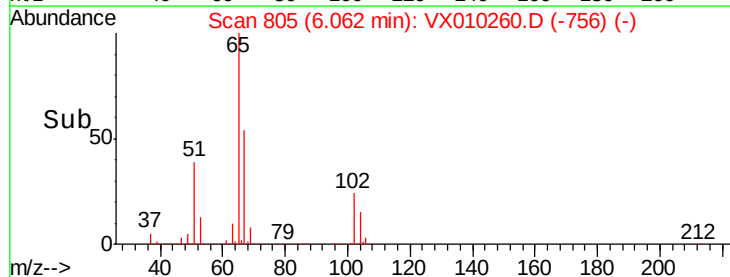
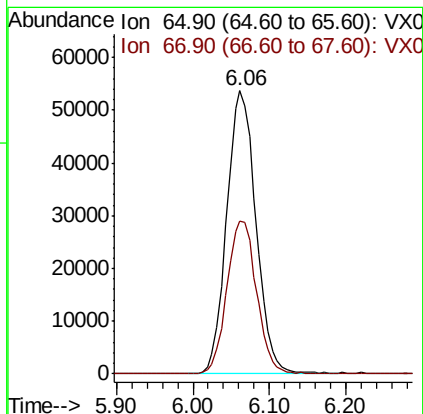
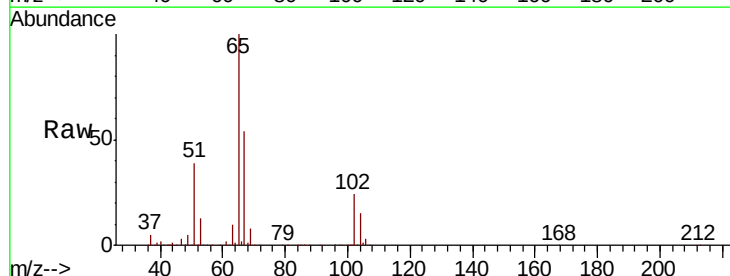
Tot Ion	96	Resp	419458
Ion Ratio	Lower	Upper	
96	100		
61	108.2	0.0	334.0
98	64.2	0.0	131.6

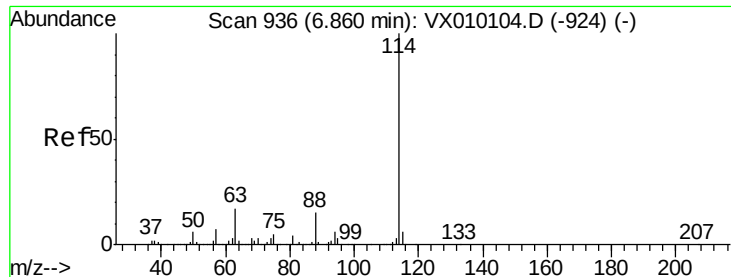


#33

1,2-Dichloroethane-d4
 Concen: 45.968 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010260.D
 Acq: 12 Jun 2019 18:55

Tgt Ion	65	Resp	142052
Ion Ratio	Lower	Upper	
65	100		
67	54.4	0.0	108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

SS043MW009-190610

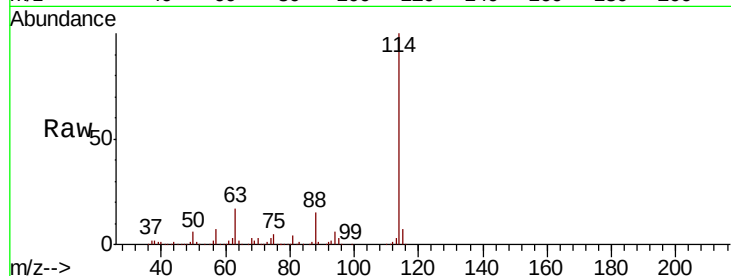
Tot Ion:114 Resp: 478234

Ion Ratio Lower Upper

114 100

63 16.6 0.0 47.4

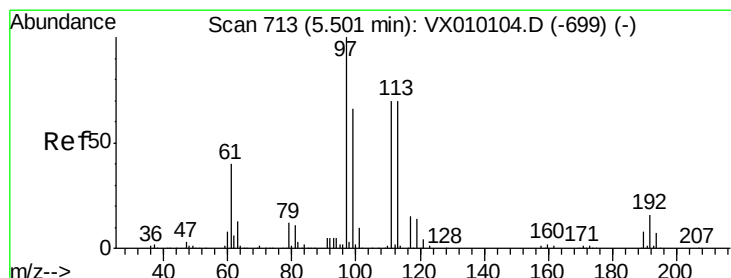
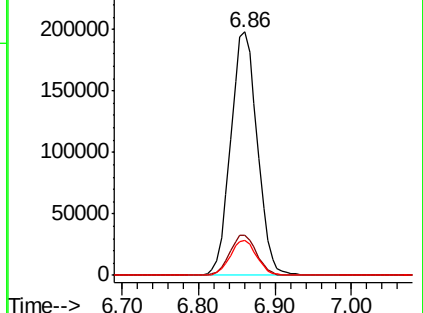
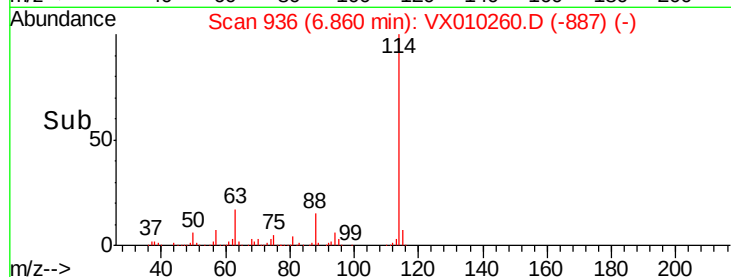
88 14.5 0.0 33.0



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: 49.934 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

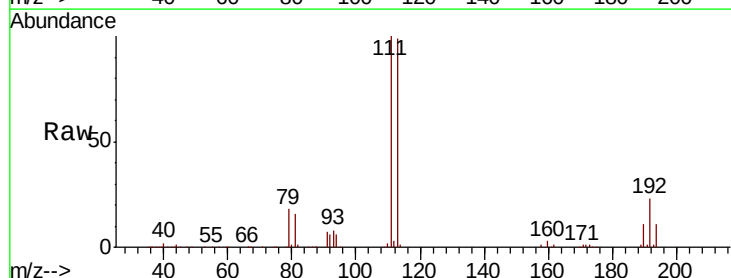
Tgt Ion:113 Resp: 147299

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.2

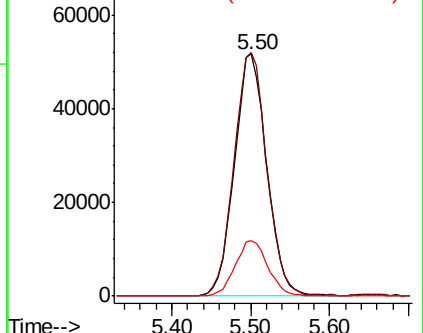
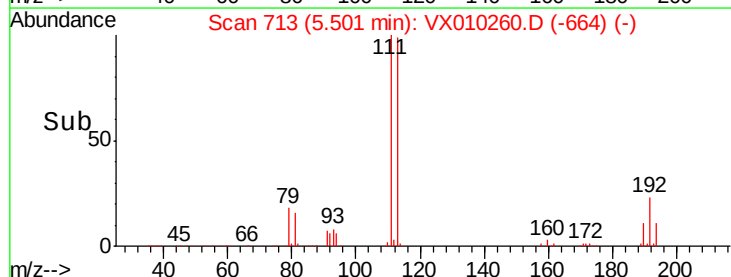
192 23.1 17.1 25.7

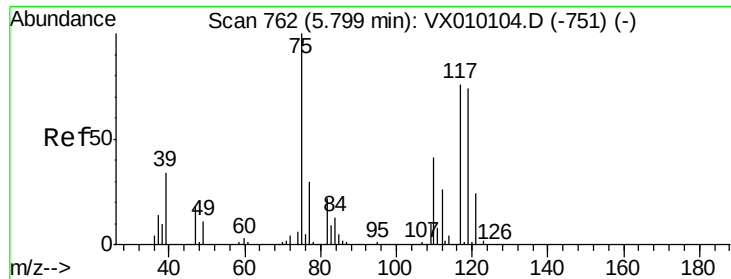


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

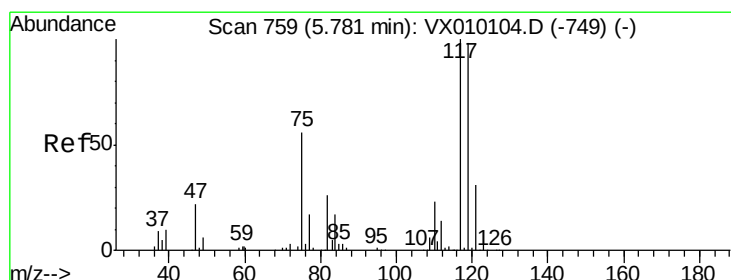
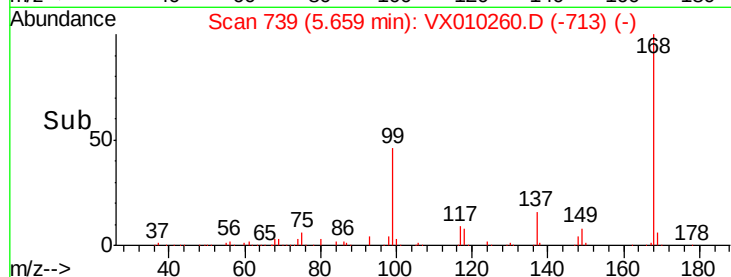
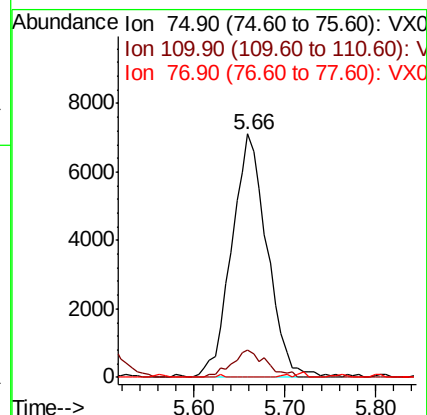
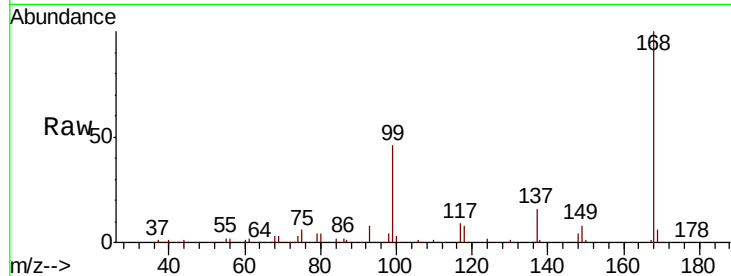




#36
 1,1-Dichloropropene
 Concen: 4.935 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010260.D
 Acq: 12 Jun 2019 18:55

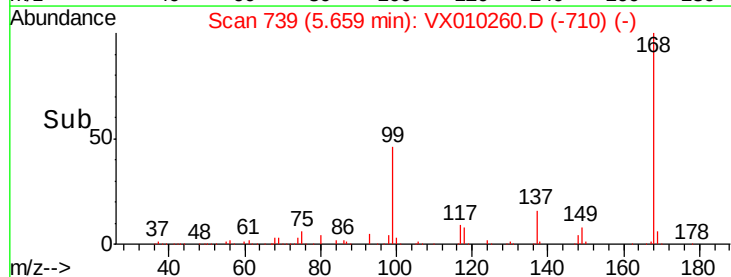
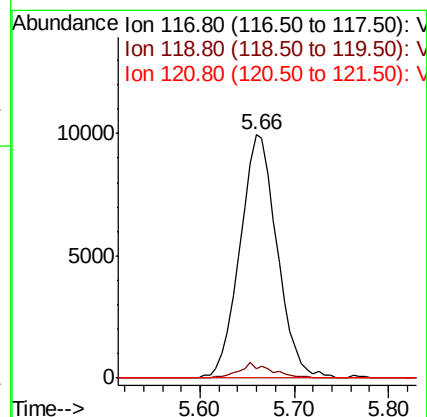
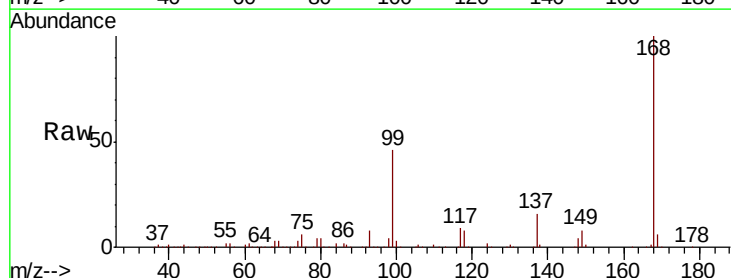
Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-190610

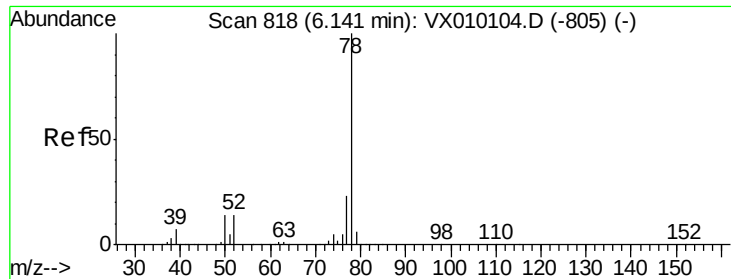
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	16.7	50.1#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.189 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX010260.D
 Acq: 12 Jun 2019 18:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.7	77.3	115.9#
121	0.0	25.4	38.0#





#40

Benzene

Concen: 0.232 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

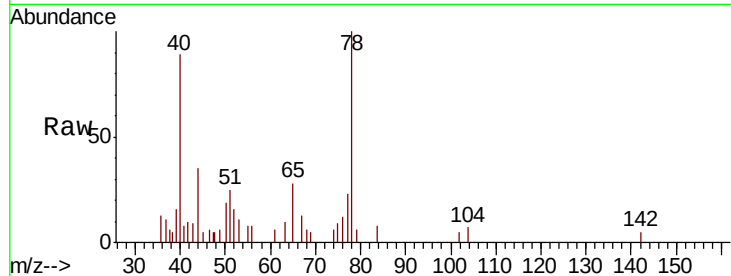
SS043MW009-190610

Tot Ion: 78 Resp: 2796

Ion Ratio Lower Upper

78 100

77 23.5 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

1200

1000

800

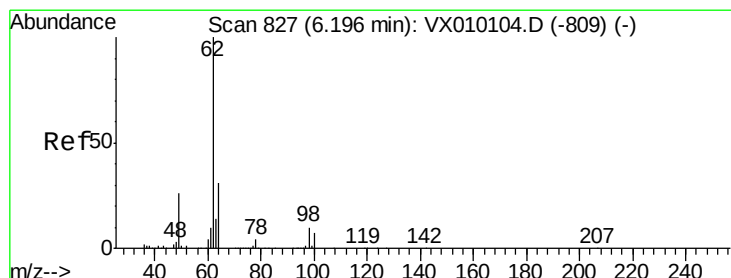
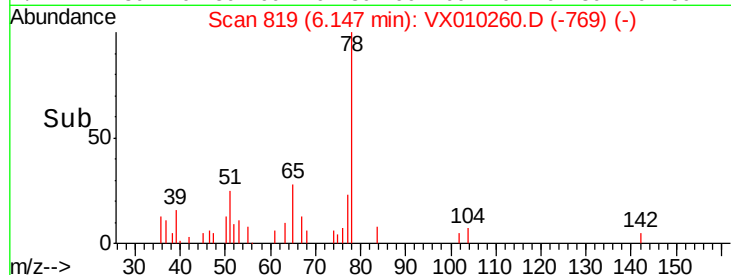
600

400

200

0

Time-->



#42

1,2-Dichloroethane

Concen: 0.622 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX010260.D

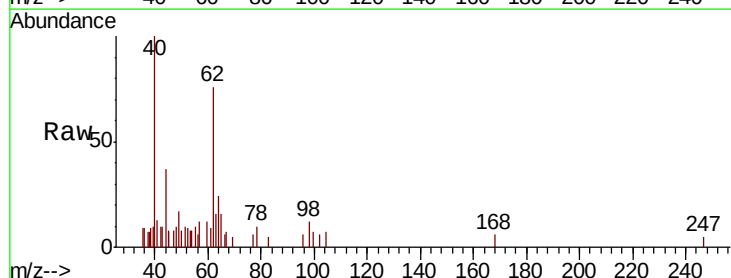
Acq: 12 Jun 2019 18:55

Tgt Ion: 62 Resp: 2395

Ion Ratio Lower Upper

62 100

98 9.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.20

800

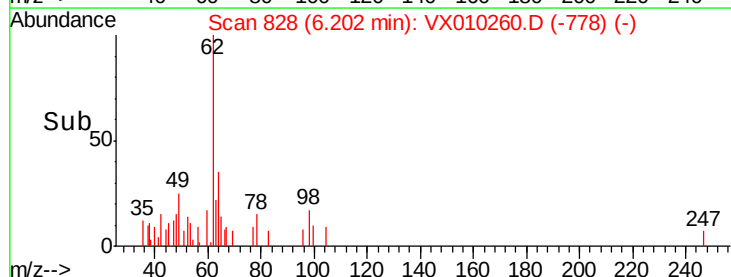
600

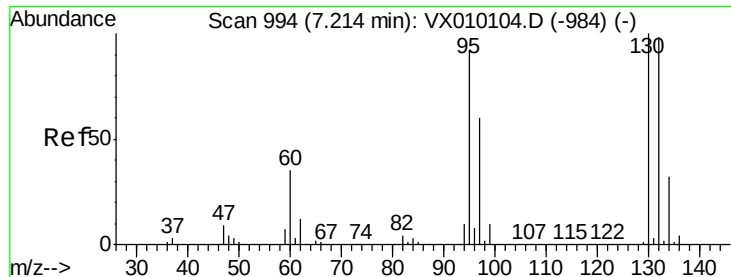
400

200

0

Time-->





#44

Trichloroethene

Concen: 0.586 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

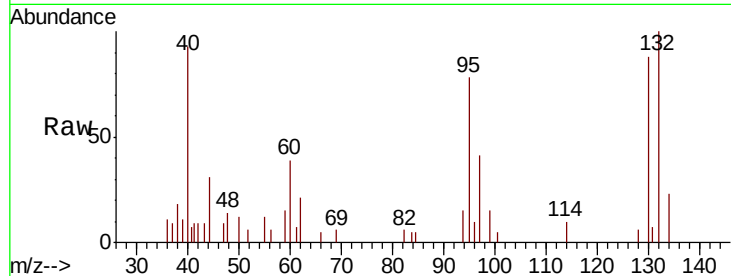
SS043MW009-190610

Tot Ion:130 Resp: 2132

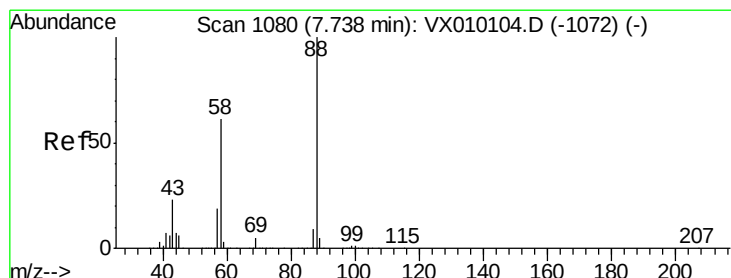
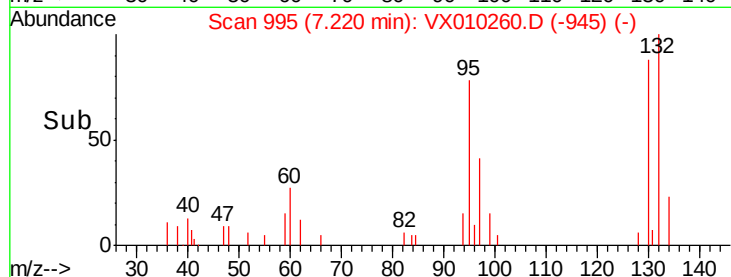
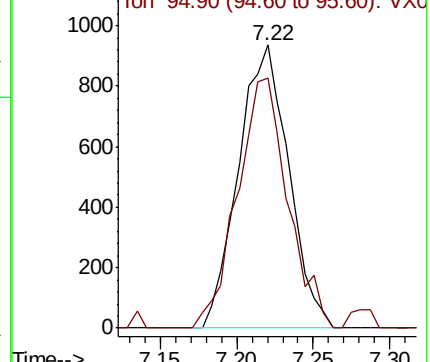
Ion Ratio Lower Upper

130 100

95 88.4 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.254 ug/l

RT: 7.80 min Scan# 1090

Delta R.T. 0.06 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

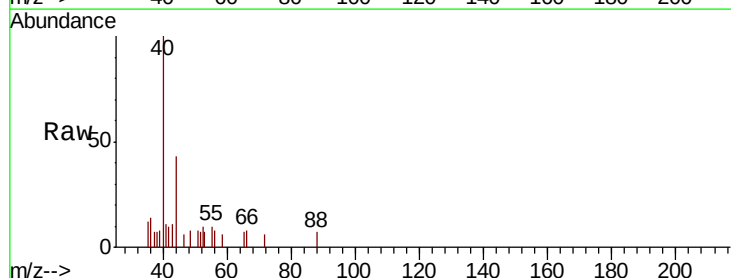
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

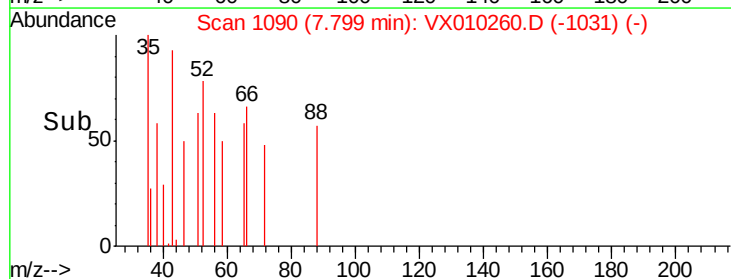
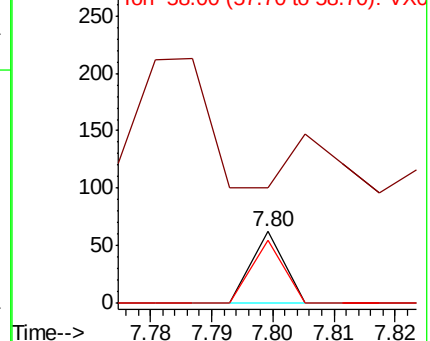
88 100

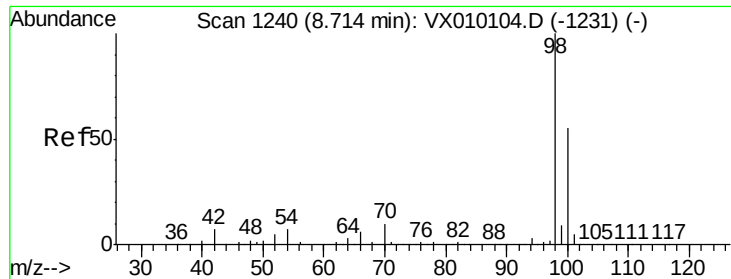
43 404.3 30.2 45.4#

58 87.0 64.0 96.0



Abundance Ion 88.00 (87.70 to 88.70): VX0





#50

Toluene-d8

Concen: 50.691 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

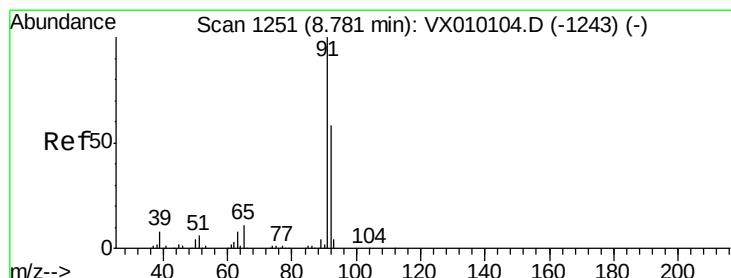
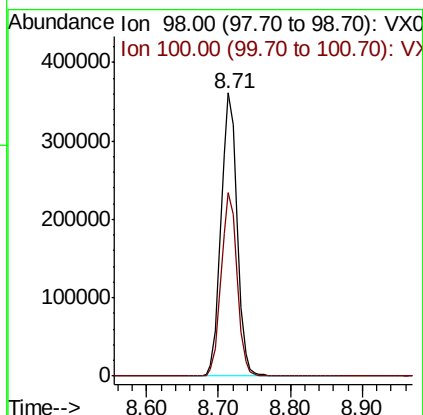
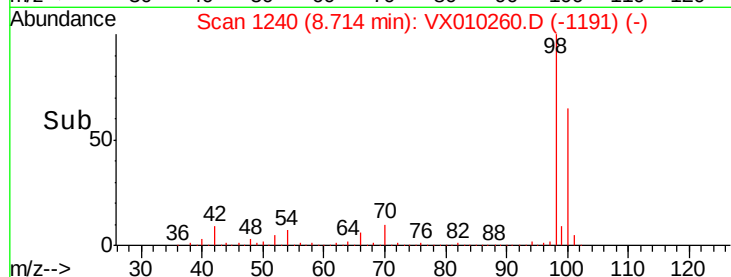
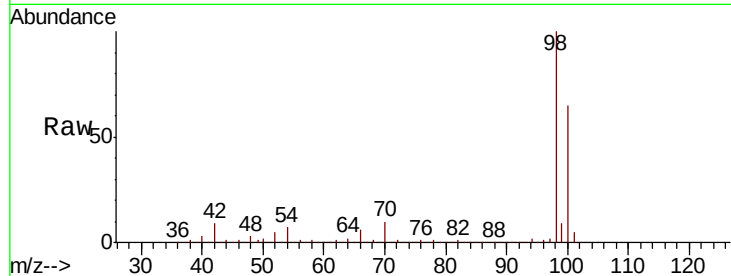
SS043MW009-190610

Tot Ion: 98 Resp: 560417

Ion Ratio Lower Upper

98 100

100 64.3 51.5 77.3



#52

Toluene

Concen: 0.493 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VX010260.D

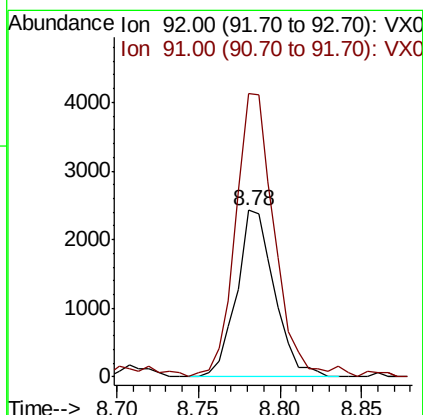
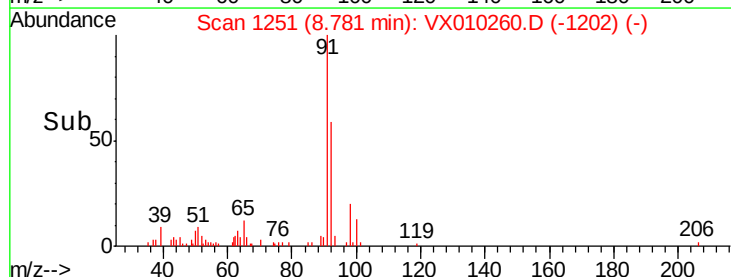
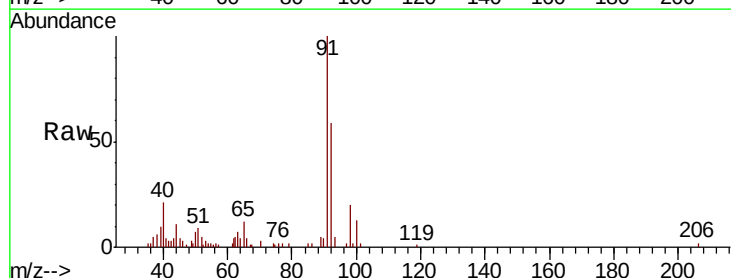
Acq: 12 Jun 2019 18:55

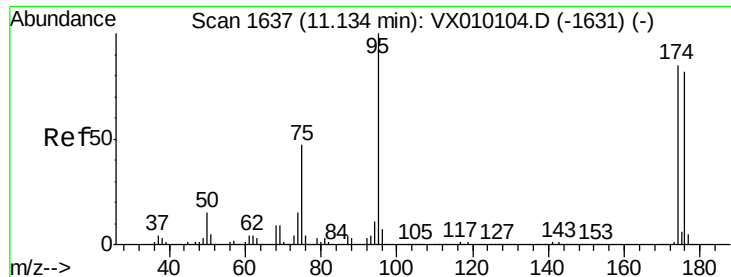
Tgt Ion: 92 Resp: 3910

Ion Ratio Lower Upper

92 100

91 175.4 139.9 209.9





#62

4-Bromofluorobenzene

Concen: 46.889 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

SS043MW009-190610

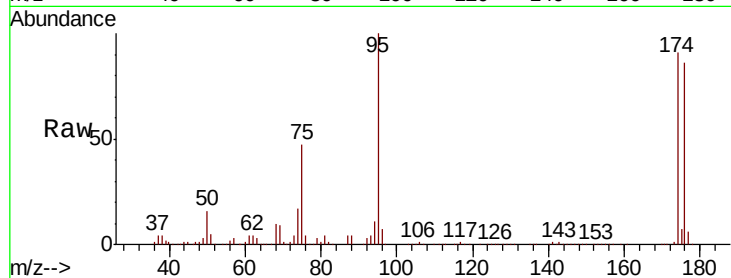
Tot Ion: 95 Resp: 193596

Ion Ratio Lower Upper

95 100

174 94.3 0.0 160.4

176 90.8 0.0 154.6

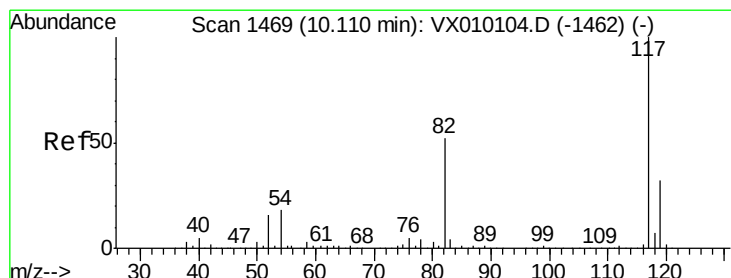
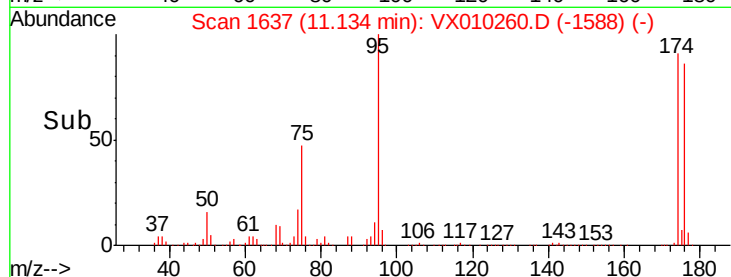
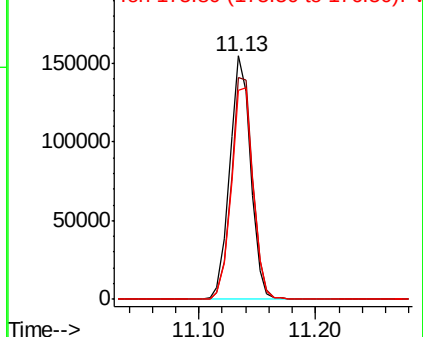


Abundance

Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

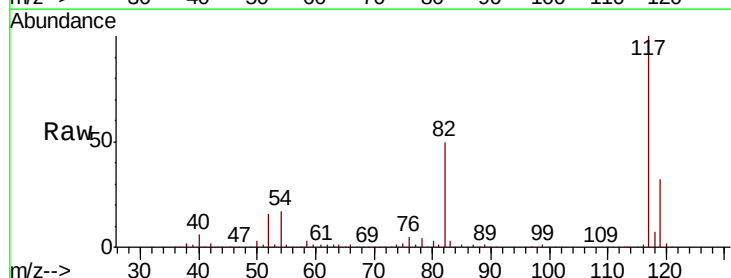
Tgt Ion: 117 Resp: 432518

Ion Ratio Lower Upper

117 100

82 49.7 49.2 73.8

119 31.6 25.2 37.8

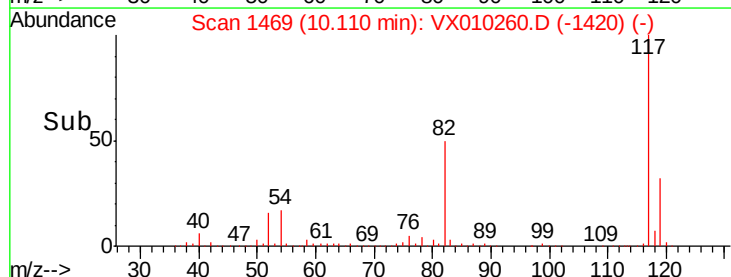
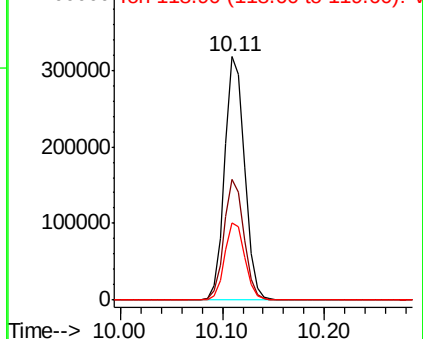


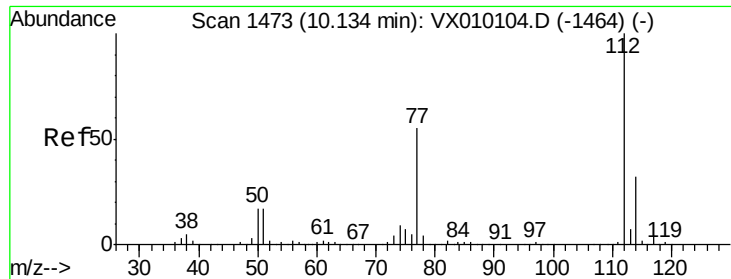
Abundance

Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)

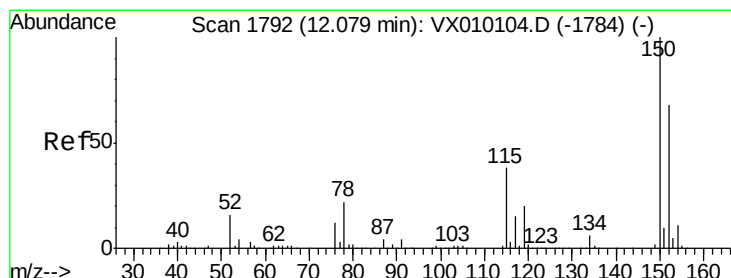
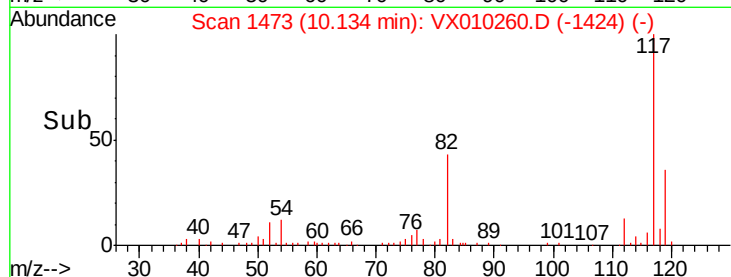
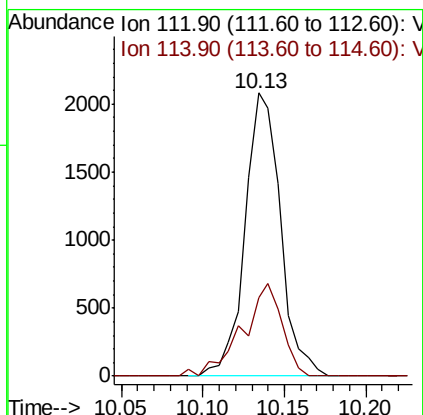
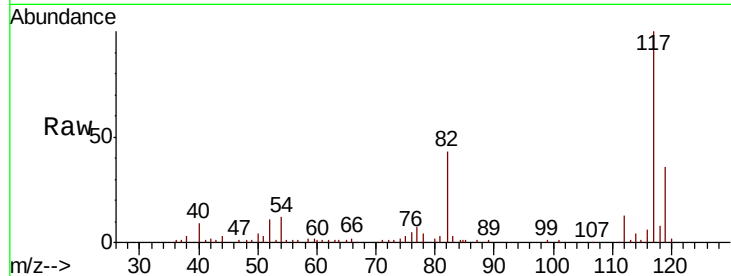




#65
Chlorobenzene
Concen: 0.353 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX010260.D
Acq: 12 Jun 2019 18:55

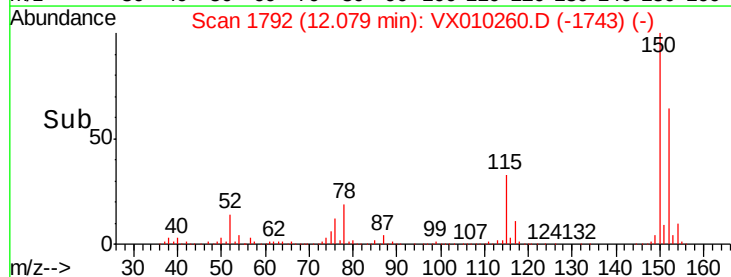
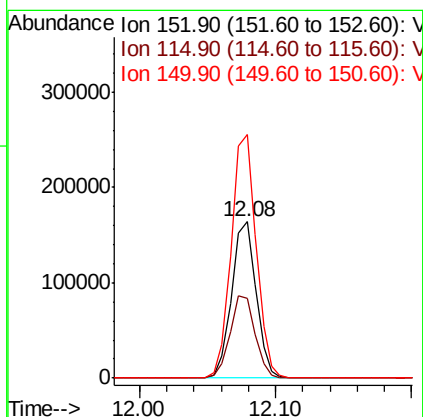
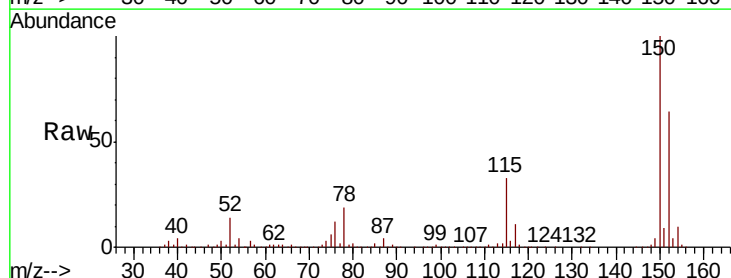
Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-190610

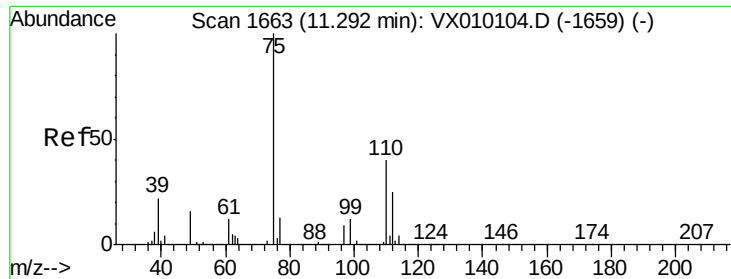
Tot Ion:112 Resp: 3155
Ion Ratio Lower Upper
112 100
114 27.8 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010260.D
Acq: 12 Jun 2019 18:55

Tgt Ion:152 Resp: 205731
Ion Ratio Lower Upper
152 100
115 53.7 41.4 124.2
150 158.6 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 21.494 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

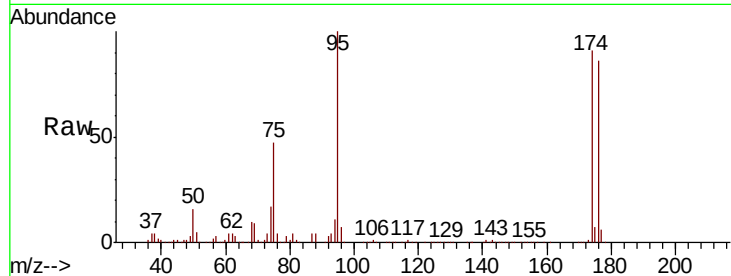
SS043MW009-190610

Tot Ion: 75 Resp: 88448

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

80000

60000

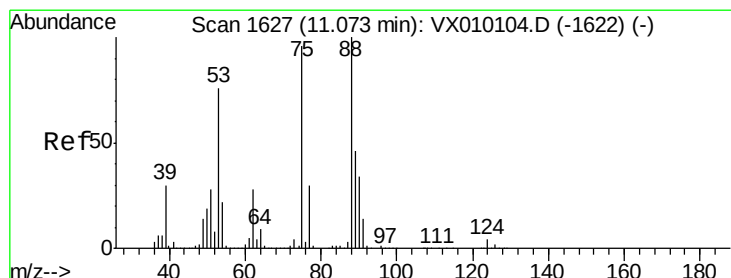
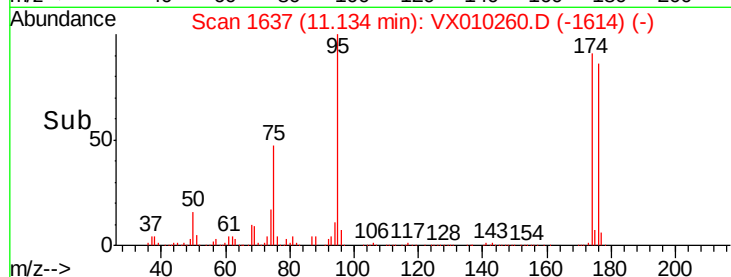
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 47.489 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

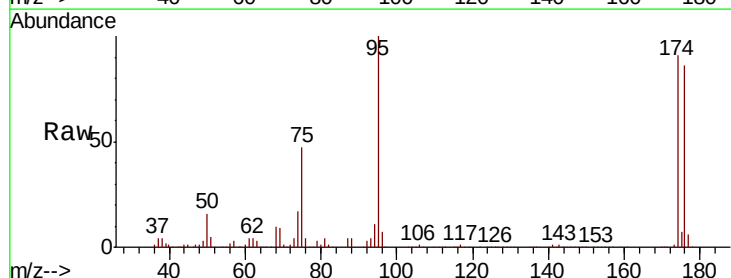
Tgt Ion: 75 Resp: 88448

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 34.2 51.4#



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

100000

80000

60000

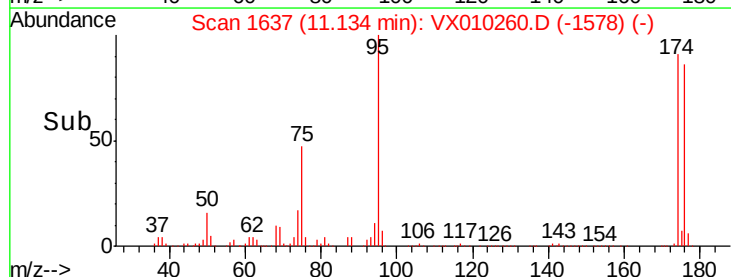
40000

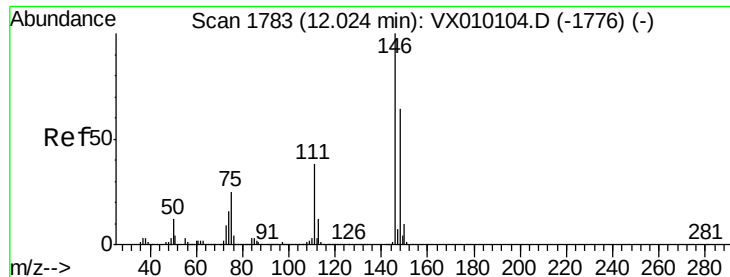
20000

0

Time-->

11.10 11.20





#87

1,3-Dichlorobenzene

Concen: 0.425 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

SS043MW009-190610

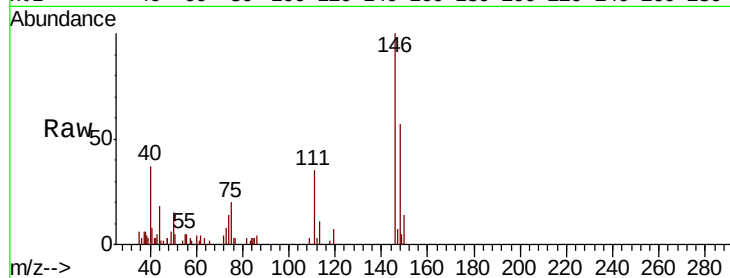
Tot Ion:146 Resp: 2955

Ion Ratio Lower Upper

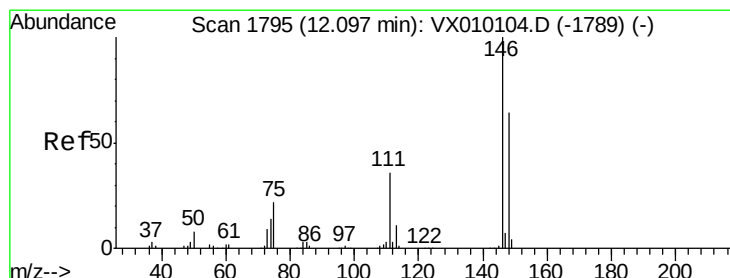
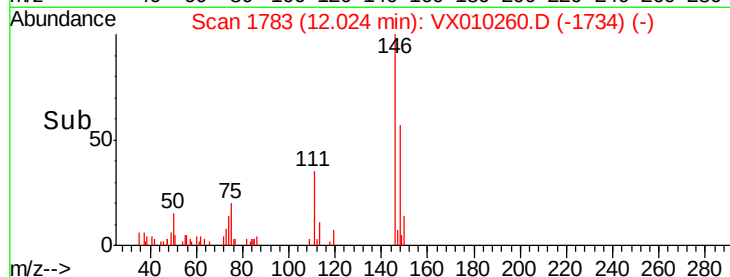
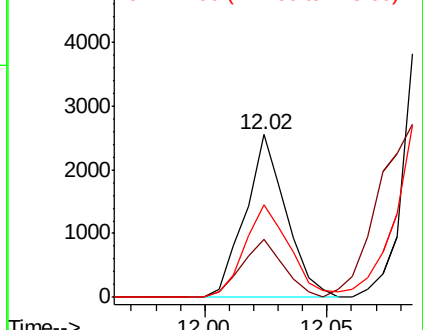
146 100

111 36.5 20.1 60.2

148 63.2 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 1.536 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX010260.D

Acq: 12 Jun 2019 18:55

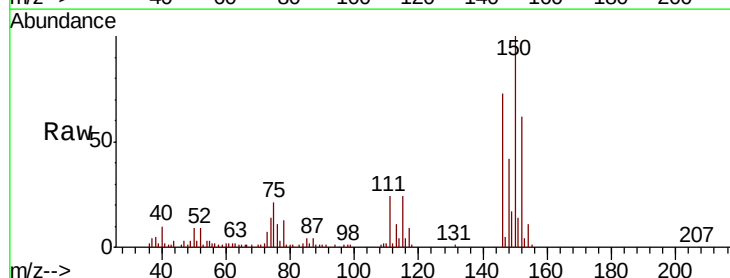
Tgt Ion:146 Resp: 10769

Ion Ratio Lower Upper

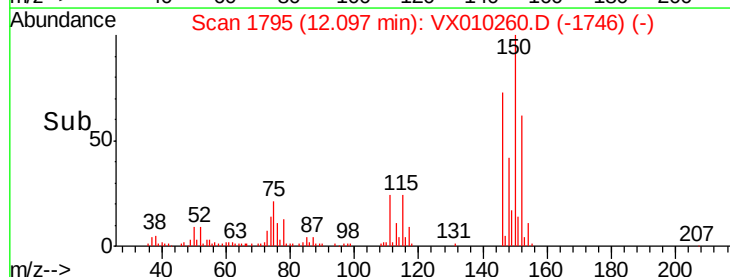
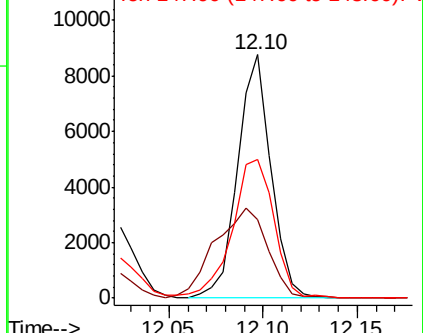
146 100

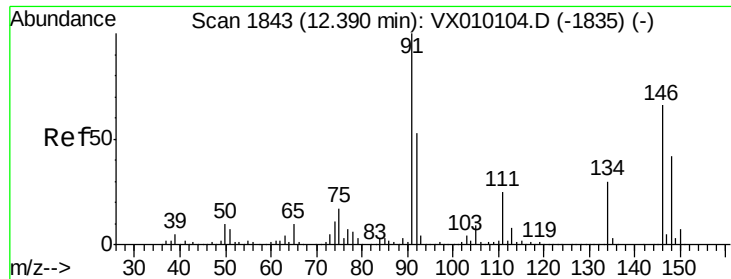
111 58.2 20.0 59.9

148 71.2 32.3 96.9



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

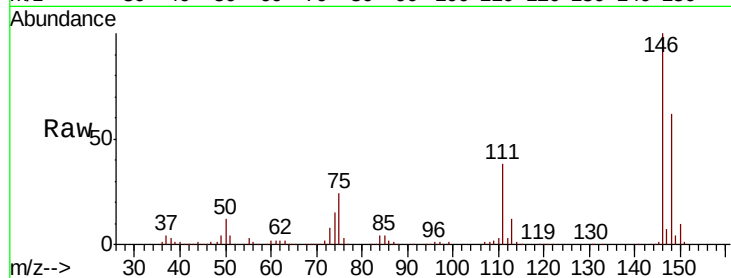




#91
 1,2-Dichlorobenzene
 Concen: 12.531 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX010260.D
 Acq: 12 Jun 2019 18:55

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-190610

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	21.1	63.1
148	63.0	32.3	96.8



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

