

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
 Data File : VX009800.D
 Acq On : 22 May 2019 13:37
 Operator : JC/SP
 Sample : K2970-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-9-S

Quant Time: May 23 07:15:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	169272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	271220	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	104166	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	117013	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
35) Dibromofluoromethane	5.50	113	84572	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	8.71	98	348844	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
62) 4-Bromofluorobenzene	11.13	95	115136	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	

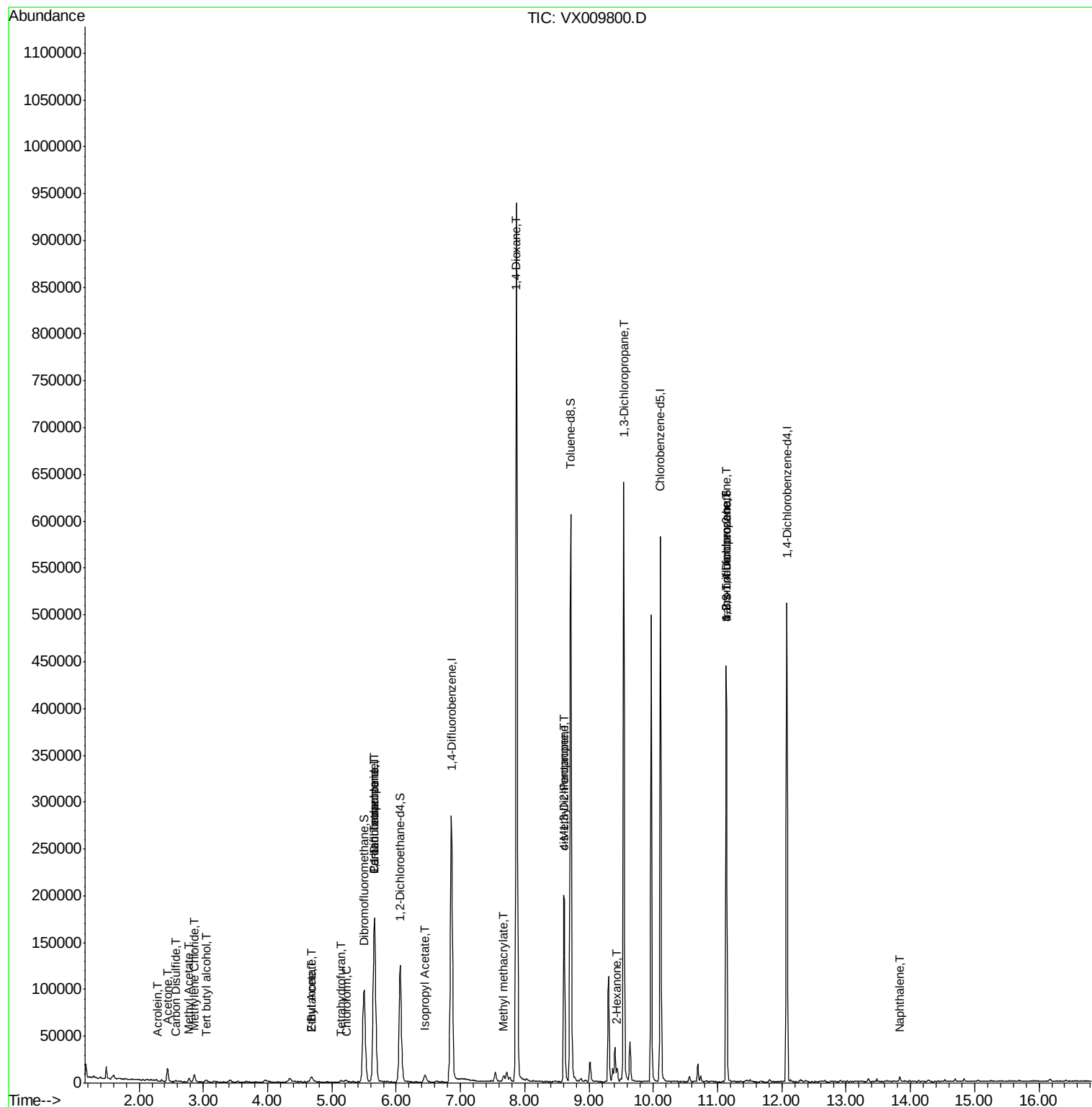
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.04	59	1794	3.354	ug/l	99
13) Acrolein	2.29	56	378	0.780	ug/l	93
16) Acetone	2.44	43	15493	12.486	ug/l	98
17) Carbon Disulfide	2.57	76	1198	0.269	ug/l #	92
18) Methyl Acetate	2.77	43	5478	1.856	ug/l	96
20) Methylene Chloride	2.86	84	2940	1.463	ug/l	95
25) 2-Butanone	4.68	43	9991	5.182	ug/l	92
28) Bromochloromethane	5.02	49	135	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	1800	1.451	ug/l #	87
30) Chloroform	5.22	83	1632	0.491	ug/l	93
36) 1,1-Dichloropropene	5.66	75	13456	5.339	ug/l #	50
37) Ethyl Acetate	4.68	43	9991	2.845	ug/l #	72
38) Carbon Tetrachloride	5.66	117	15851	6.922	ug/l #	14
43) Isopropyl Acetate	6.45	43	10853	1.932	ug/l	98
48) Methyl methacrylate	7.68	41	7388	2.651	ug/l #	30
49) 1,4-Dioxane	7.88	88	140	2.477	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	69934	19.047	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	29347	9.179	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	5254	1.543	ug/l #	43
59) 2-Hexanone	9.44	43	9275	3.216	ug/l #	26
76) 1,2,3-Trichloropropane	11.13	75	60298	24.955	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	60298	63.851	ug/l #	10
95) Naphthalene	13.83	128	2720	0.358	ug/l #	90

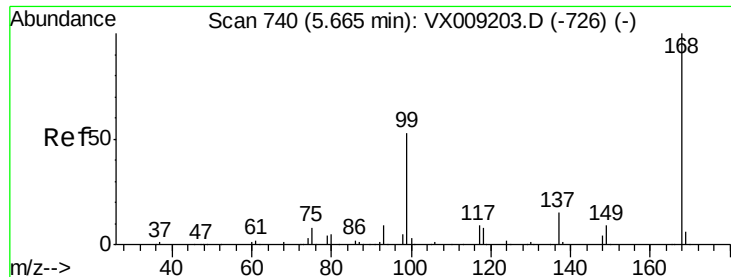
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: May 23 07:15:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 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: VX009800.D

Acq: 22 May 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

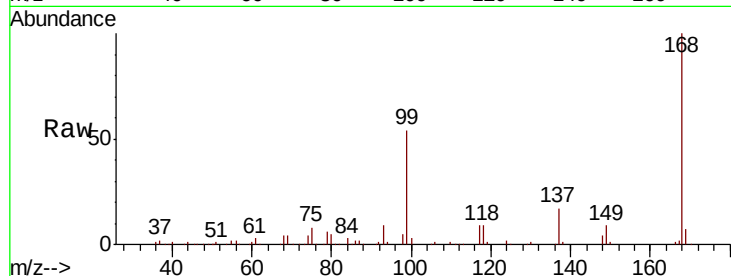
TP-9-S

Tot Ion:168 Resp: 169272

Ion Ratio Lower Upper

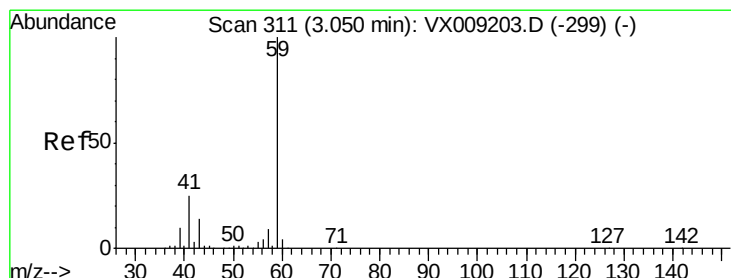
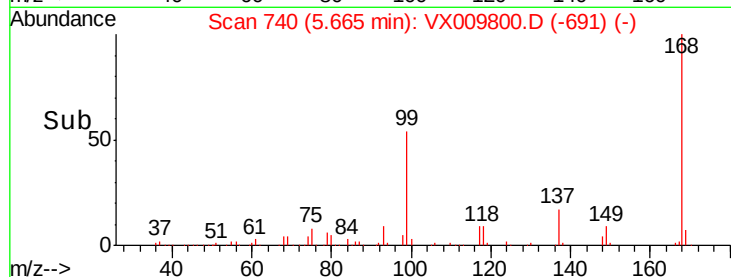
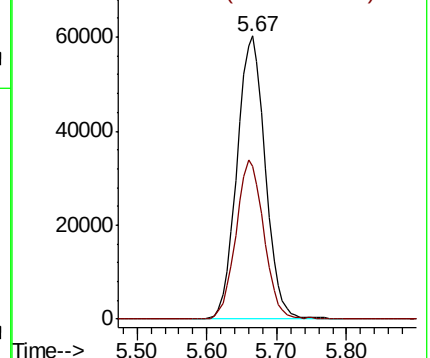
168 100

99 54.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 3.354 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX009800.D

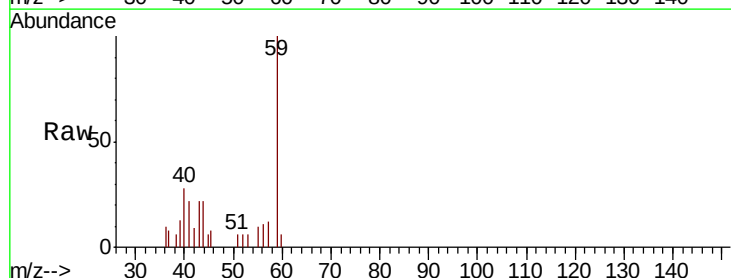
Acq: 22 May 2019 13:37

Tgt Ion: 59 Resp: 1794

Ion Ratio Lower Upper

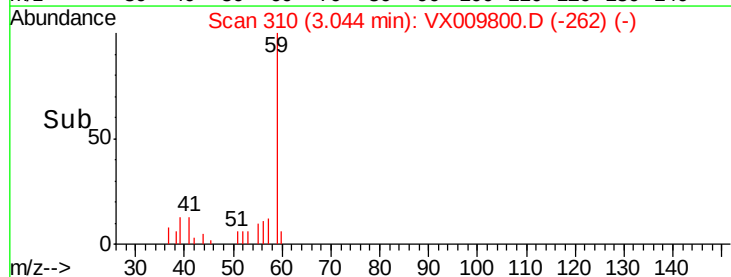
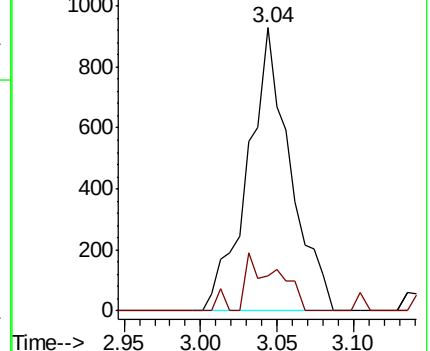
59 100

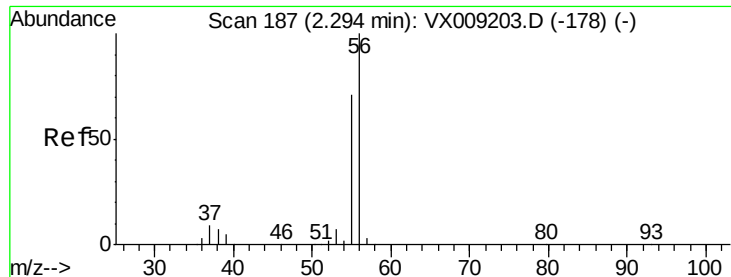
57 9.9 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.780 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

Instrument :

MSVOA_X

ClientSampled :

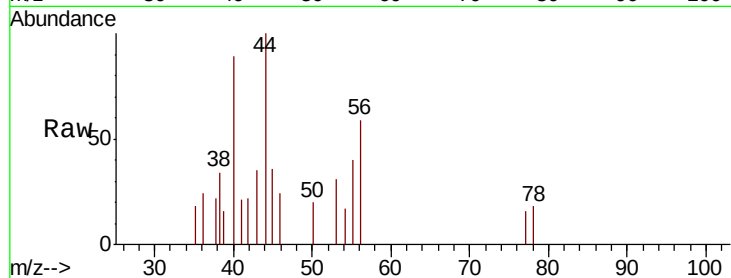
TP-9-S

Tot Ion: 56 Resp: 378

Ion Ratio Lower Upper

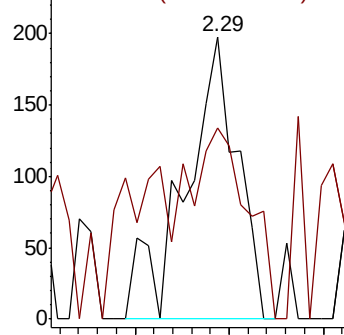
56 100

55 76.5 56.6 85.0

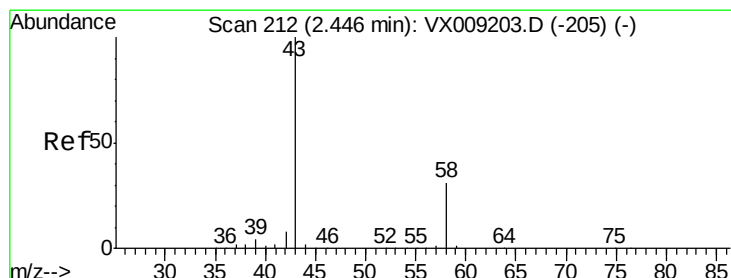
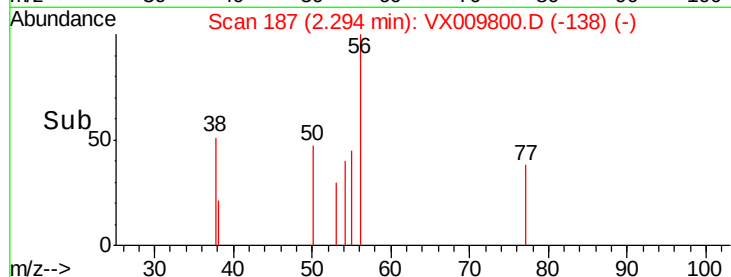


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 12.486 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009800.D

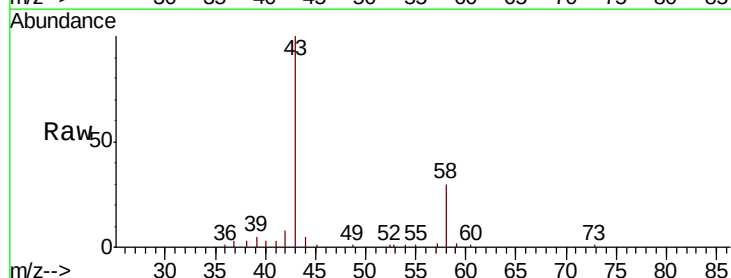
Acq: 22 May 2019 13:37

Tgt Ion: 43 Resp: 15493

Ion Ratio Lower Upper

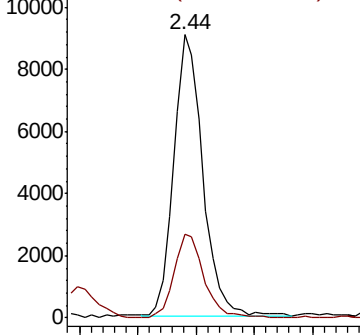
43 100

58 29.8 24.9 37.3

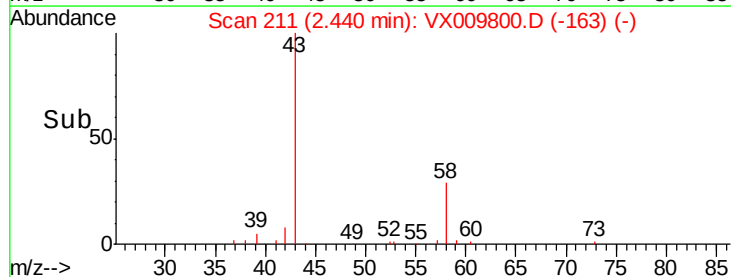


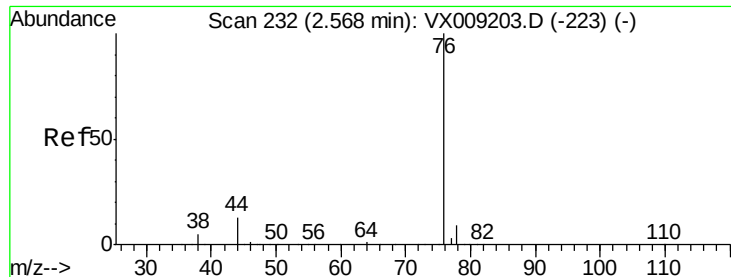
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

Instrument :

MSVOA_X

ClientSampled :

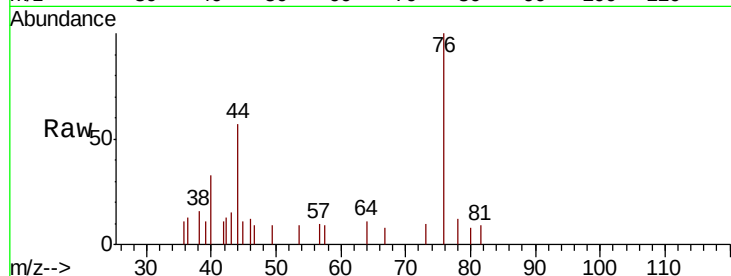
TP-9-S

Tot Ion: 76 Resp: 1198

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

2.57

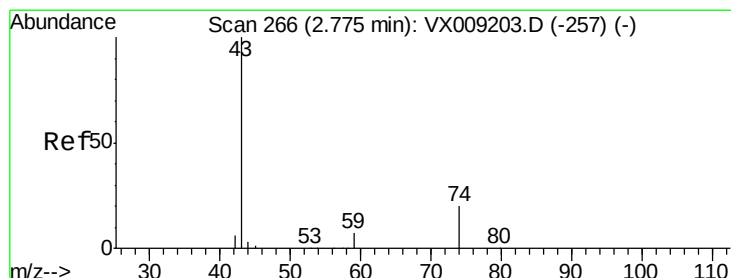
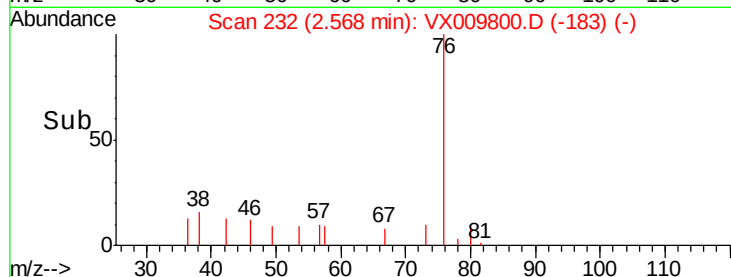
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 1.856 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX009800.D

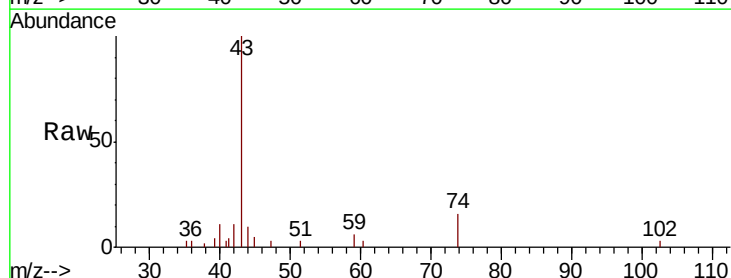
Acq: 22 May 2019 13:37

Tgt Ion: 43 Resp: 5478

Ion Ratio Lower Upper

43 100

74 22.1 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.77

2500

2000

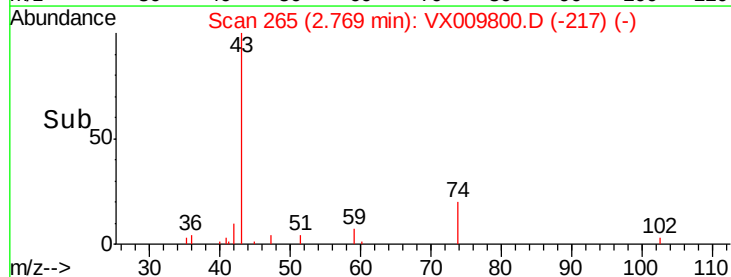
1500

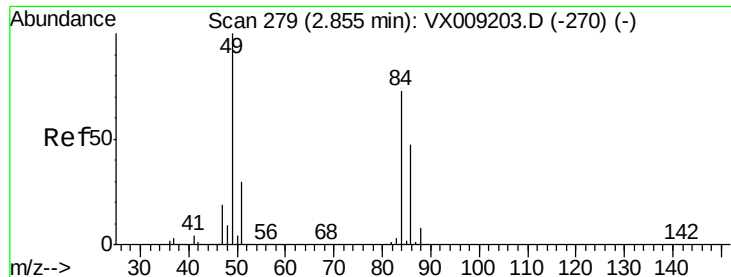
1000

500

0

Time-->

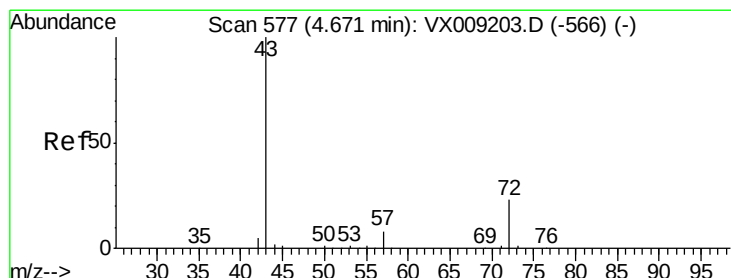
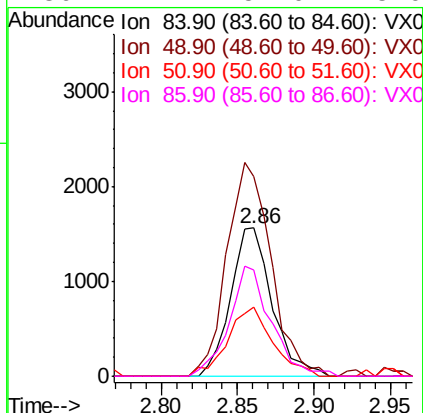
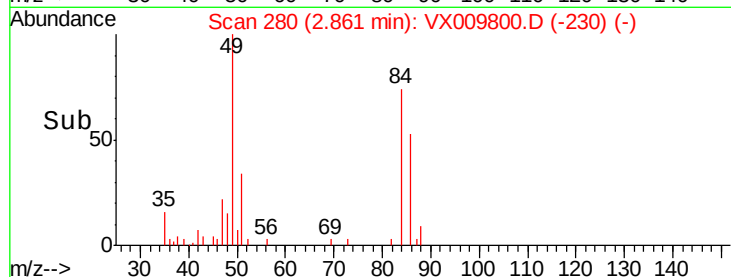
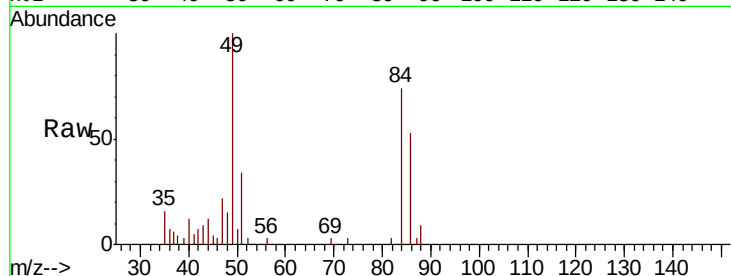




#20
Methylene Chloride
Concen: 1.463 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

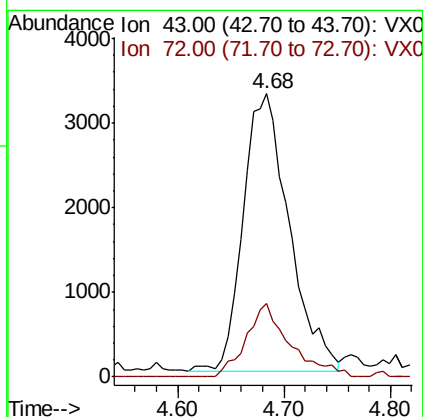
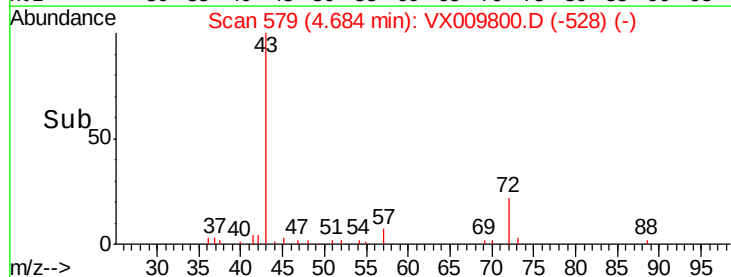
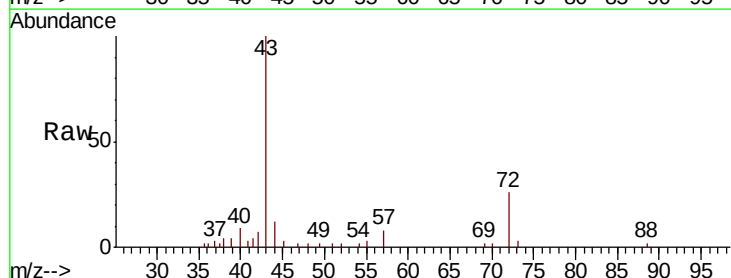
Instrument :
MSVOA_X
ClientSampleId :
TP-9-S

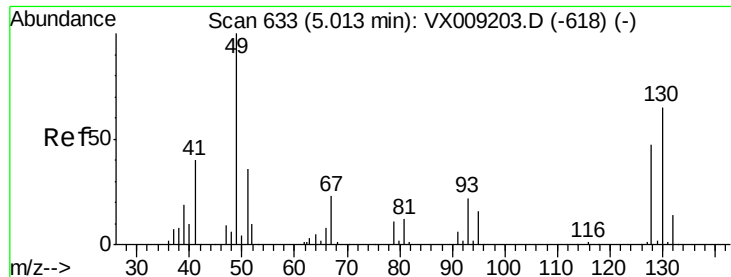
Tot Ion: 84 Resp: 2940
Ion Ratio Lower Upper
84 100
49 135.0 109.9 164.9
51 46.4 32.7 49.1
86 72.1 52.0 78.0



#25
2-Butanone
Concen: 5.182 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Tgt Ion: 43 Resp: 9991
Ion Ratio Lower Upper
43 100
72 26.6 18.2 27.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

TP-9-S

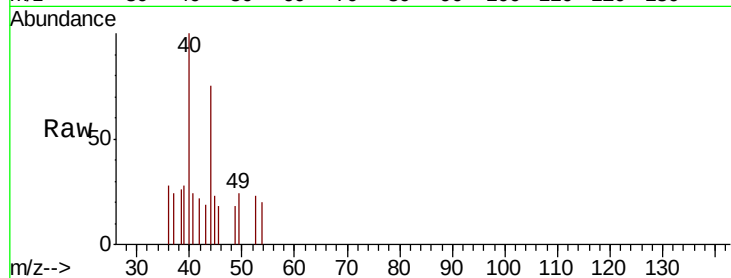
Tot Ion: 49 Resp: 135

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

150

100

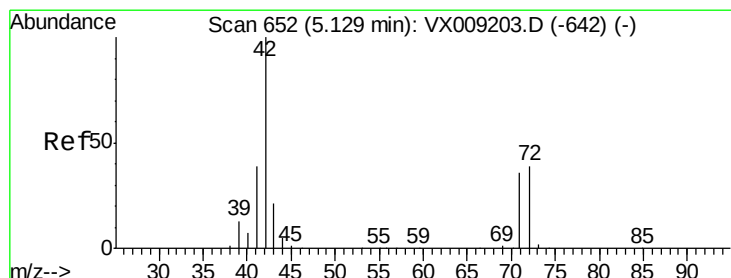
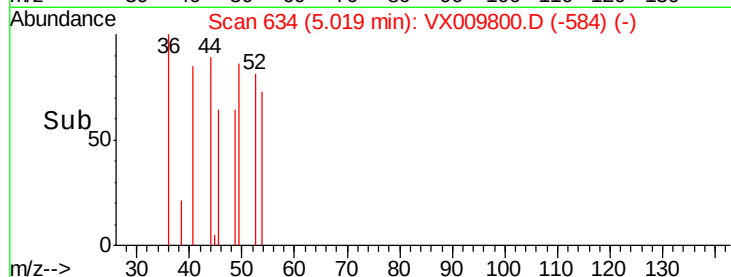
50

0

5.00

5.05

Time-->



#29

Tetrahydrofuran

Concen: 1.451 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

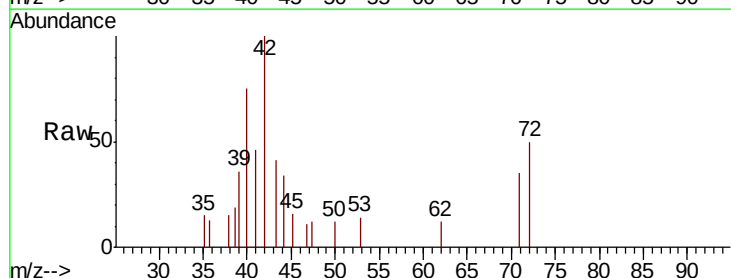
Tgt Ion: 42 Resp: 1800

Ion Ratio Lower Upper

42 100

72 33.7 30.4 45.6

71 25.0 28.6 43.0#



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

600

500

400

300

200

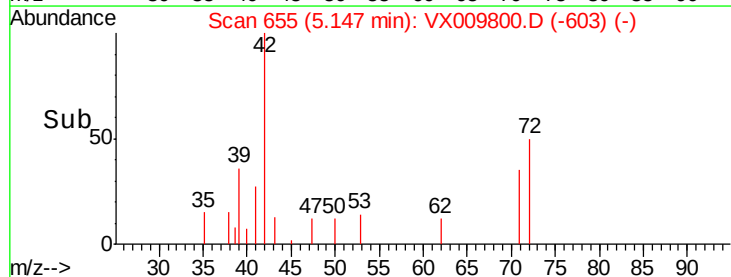
100

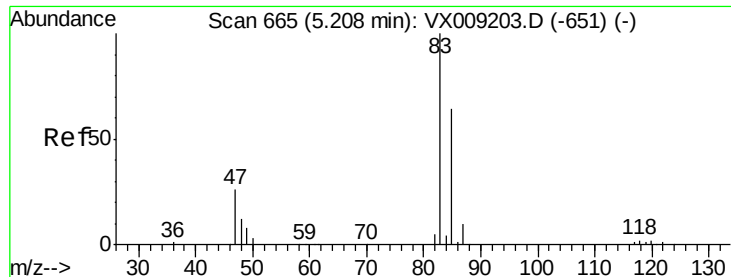
0

5.10

5.20

Time-->

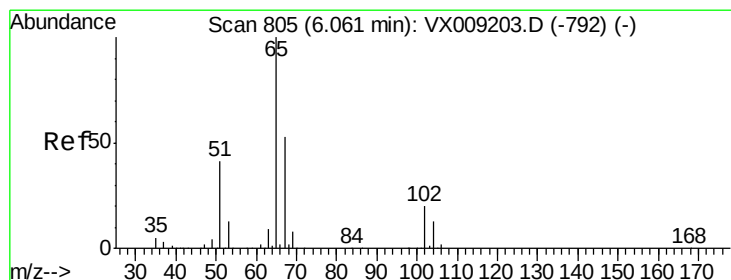
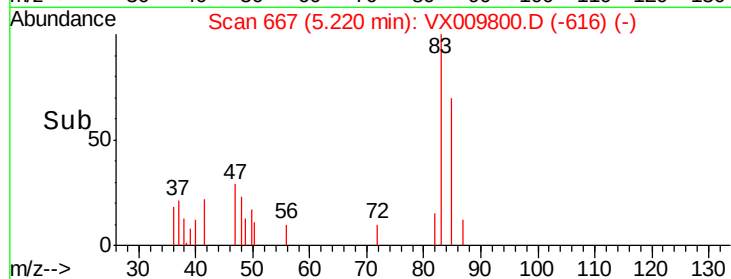
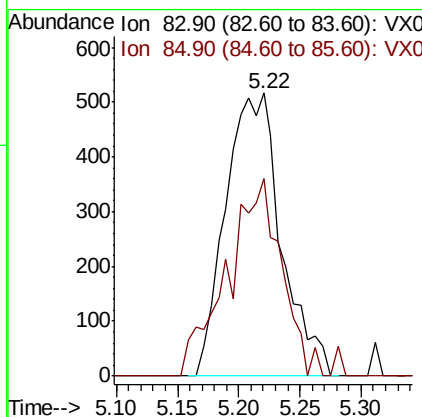
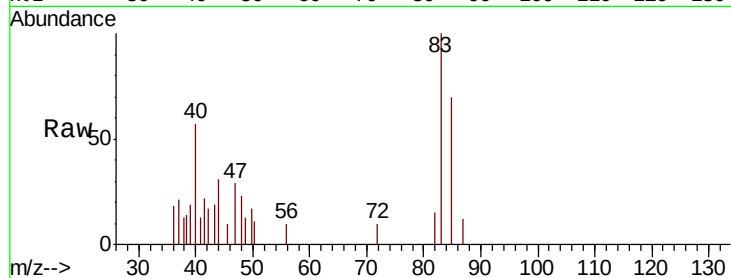




#30
Chloroform
Concen: 0.491 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

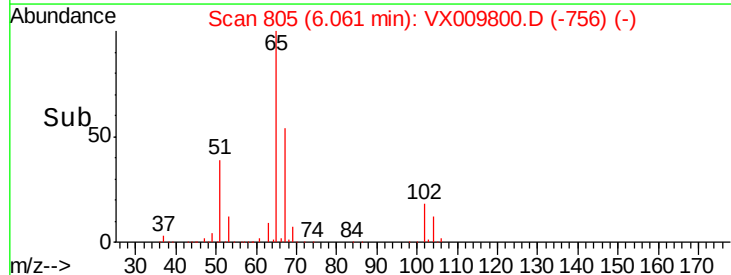
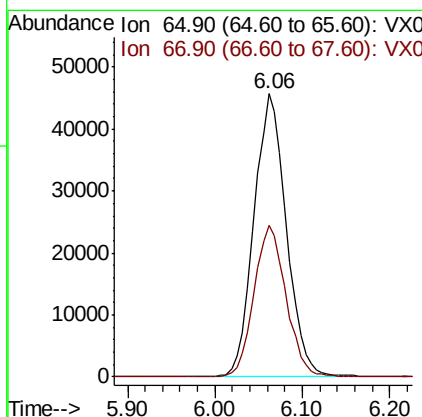
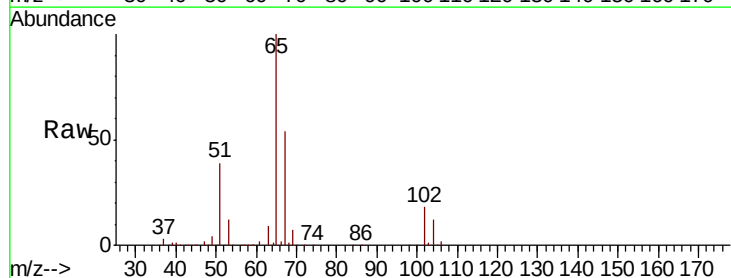
Instrument :
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ClientSampled :
TP-9-S

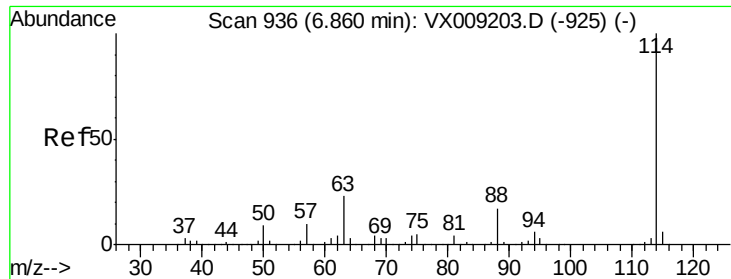
Tot Ion: 83 Resp: 1632
Ion Ratio Lower Upper
83 100
85 59.2 51.5 77.3



#33
1,2-Dichloroethane-d4
Concen: 50.638 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Tgt Ion: 65 Resp: 117013
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.6

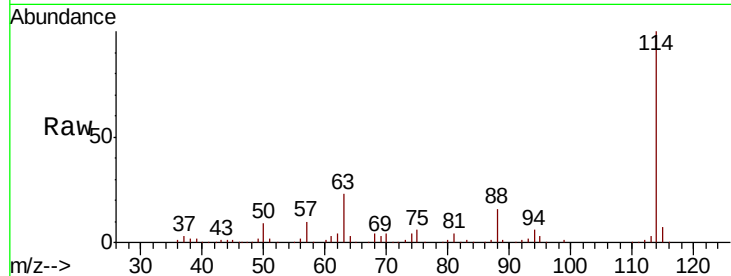




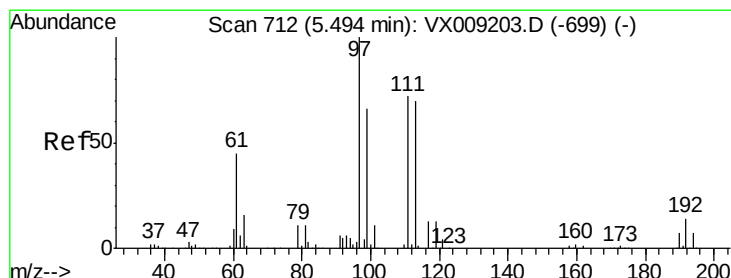
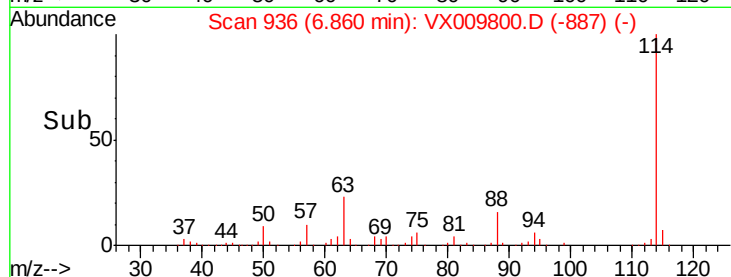
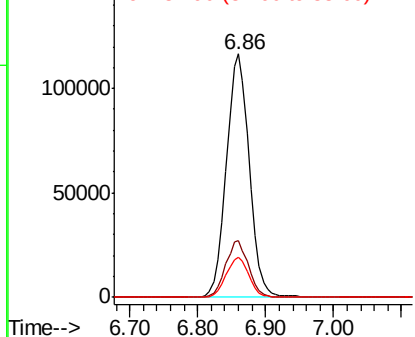
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Instrument :
MSVOA_X
ClientSampleId :
TP-9-S

Tot Ion:114 Resp: 271220
Ion Ratio Lower Upper
114 100
63 23.2 0.0 45.6
88 16.4 0.0 33.2

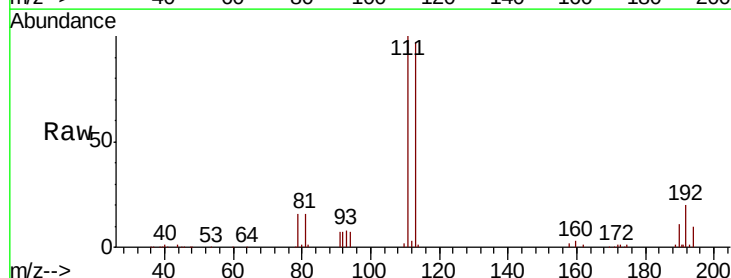


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

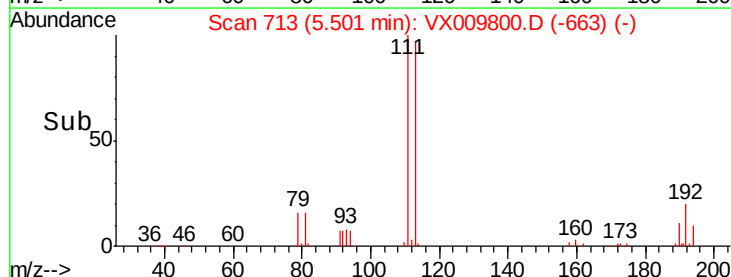
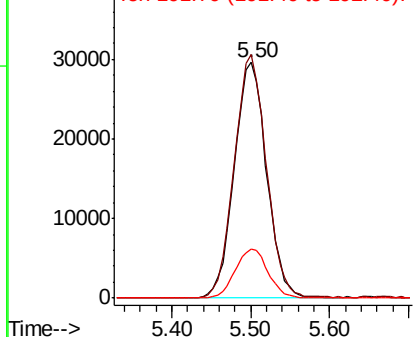


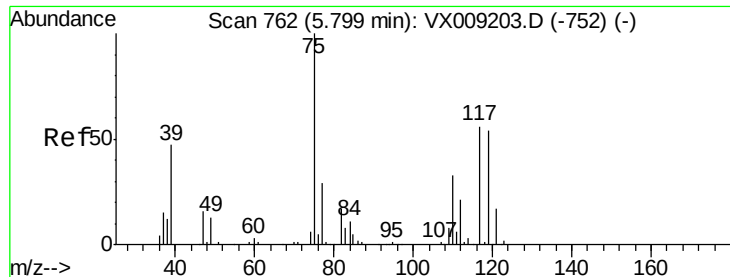
#35
Dibromofluoromethane
Concen: 49.602 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Tgt Ion:113 Resp: 84572
Ion Ratio Lower Upper
113 100
111 102.3 82.8 124.2
192 21.3 17.0 25.6



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: 5.339 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

Instrument :

MSVOA_X

ClientSampled :

TP-9-S

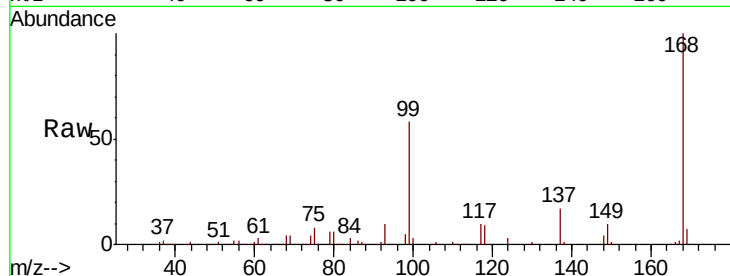
Tot Ion: 75 Resp: 13456

Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.6#

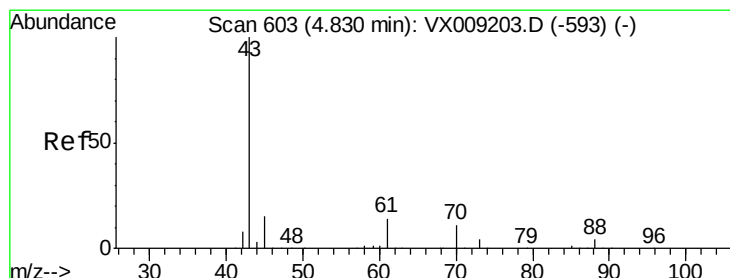
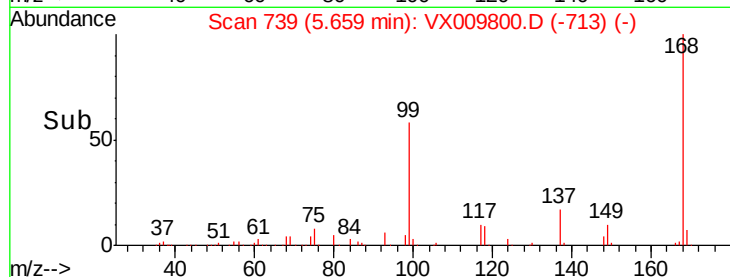
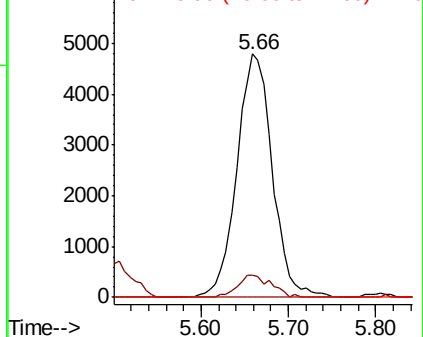
77 0.0 24.8 37.2#



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: 2.845 ug/l

RT: 4.68 min Scan# 579

Delta R.T. -0.15 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

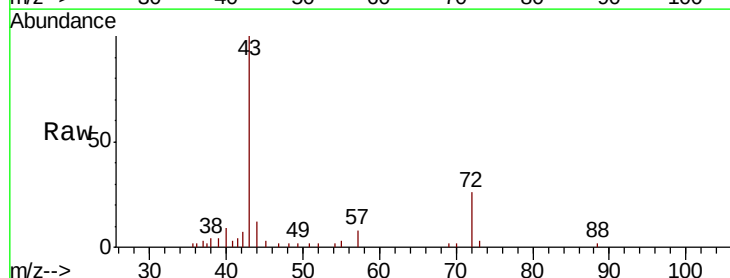
Tgt Ion: 43 Resp: 9991

Ion Ratio Lower Upper

43 100

61 1.1 10.5 15.7#

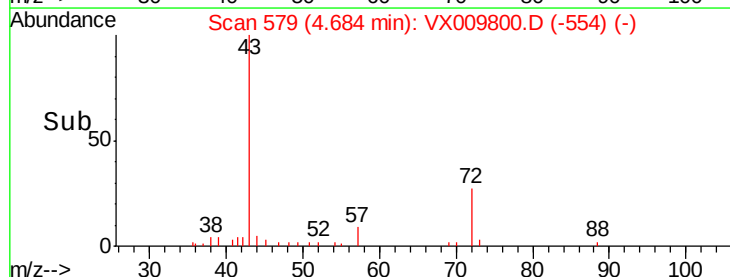
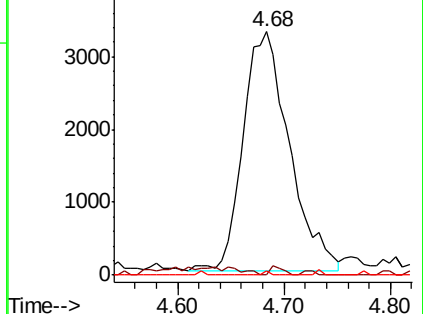
70 0.2 7.9 11.9#

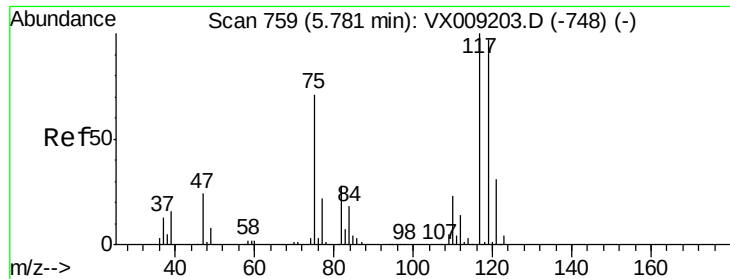


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.922 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

TP-9-S

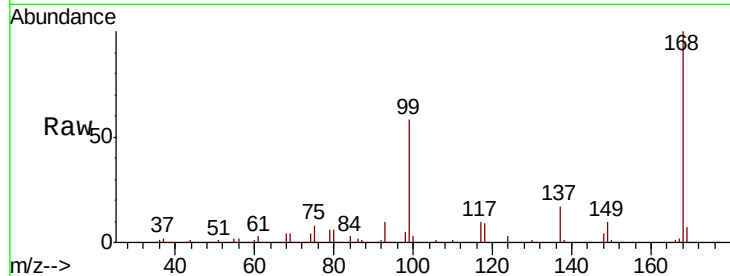
Tot Ion:117 Resp: 15851

Ion Ratio Lower Upper

117 100

119 3.6 77.5 116.3#

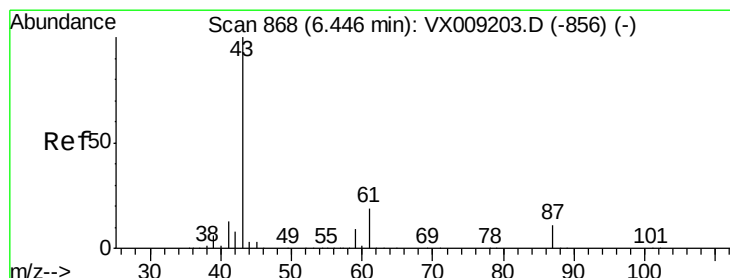
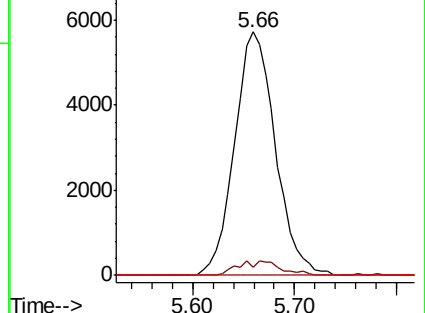
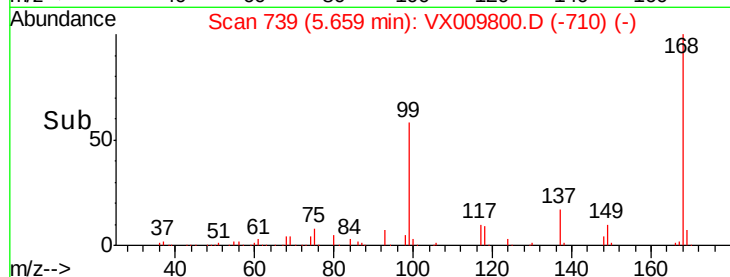
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 1.932 ug/l

RT: 6.45 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

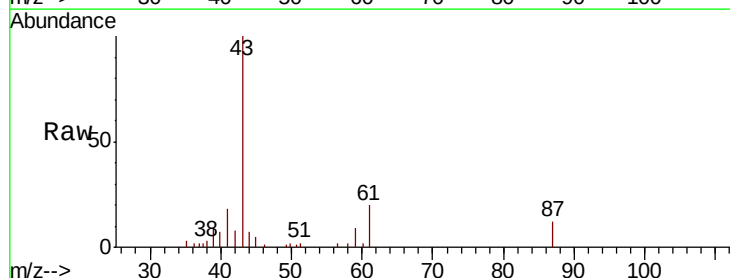
Tgt Ion: 43 Resp: 10853

Ion Ratio Lower Upper

43 100

61 19.7 15.1 22.7

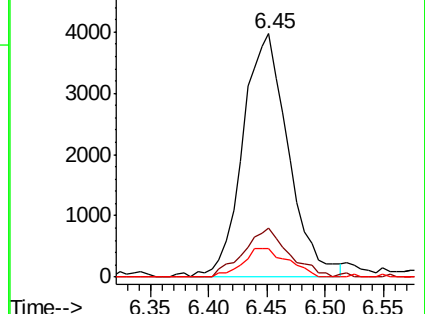
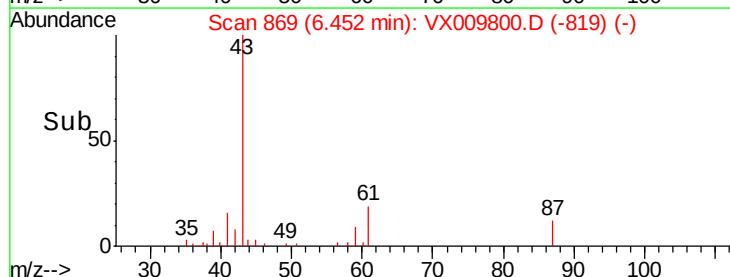
87 11.8 9.0 13.6

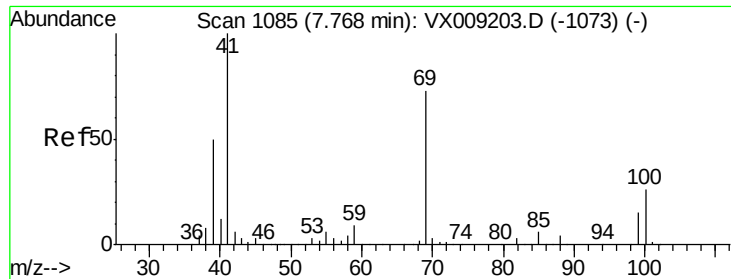


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

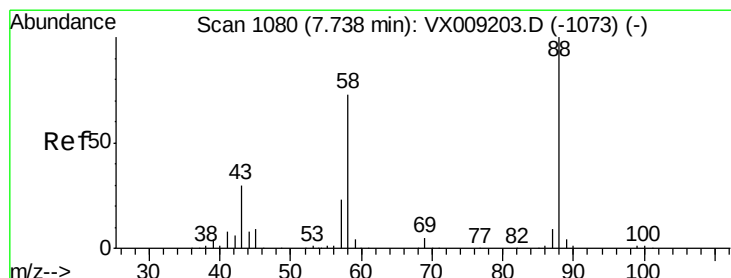
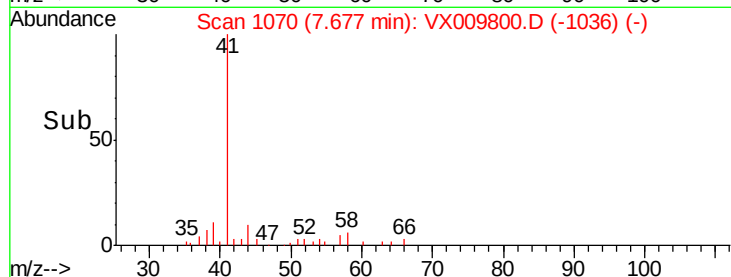
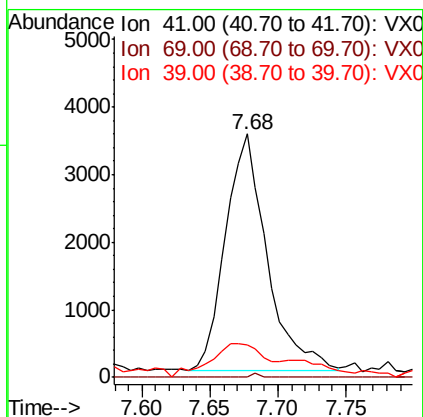
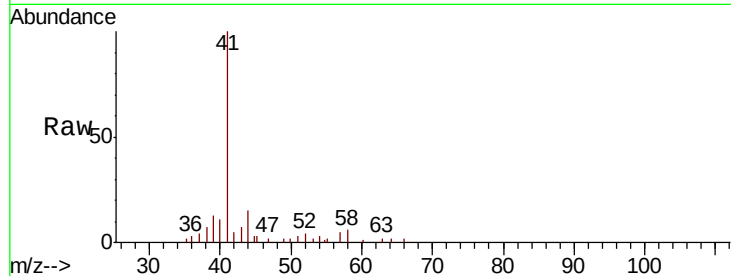




#48
Methvl methacrylate
Concen: 2.651 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

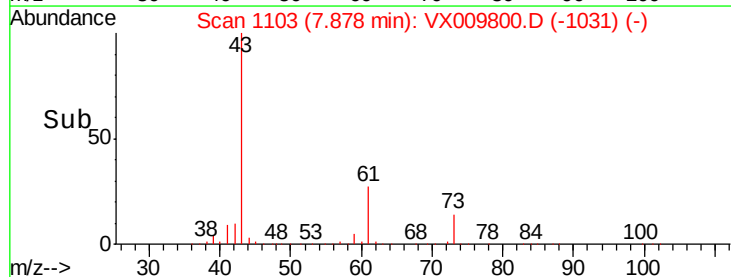
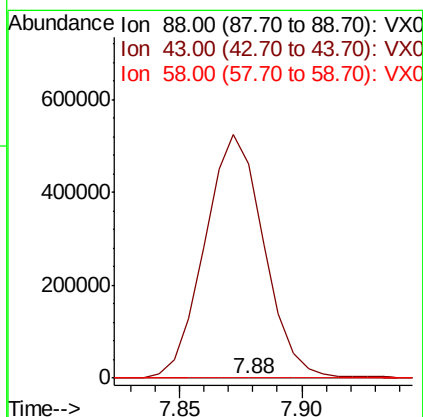
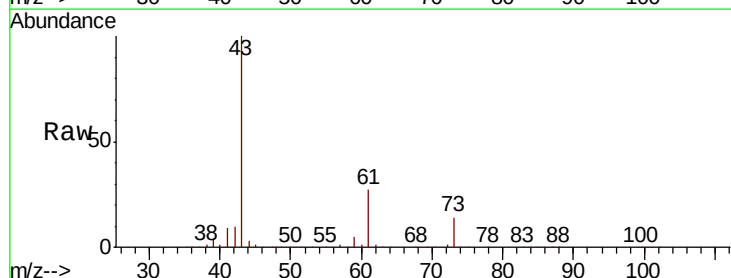
Instrument :
MSVOA_X
ClientSampled :
TP-9-S

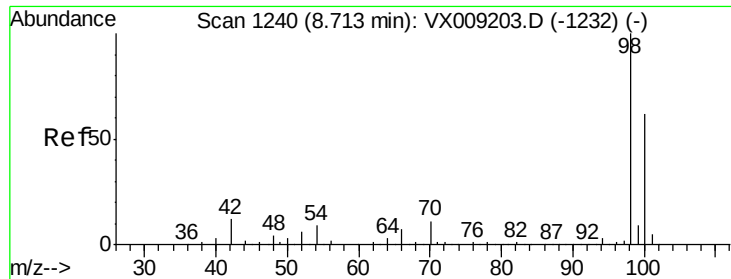
Tot Ion: 41 Resp: 7388
Ion Ratio Lower Upper
41 100
69 0.3 59.1 88.7#
39 19.2 40.4 60.6#



#49
1,4-Dioxane
Concen: 2.477 ug/l
RT: 7.88 min Scan# 1103
Delta R.T. 0.14 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Tgt Ion: 88 Resp: 140
Ion Ratio Lower Upper
88 100
43 634999.3 28.6 42.8#
58 2670.0 61.7 92.5#

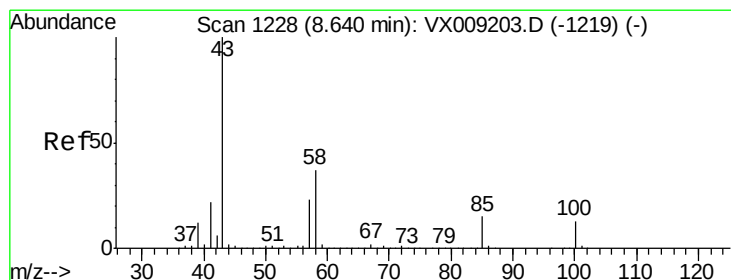
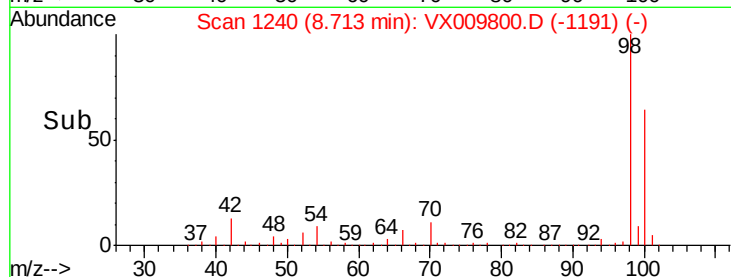
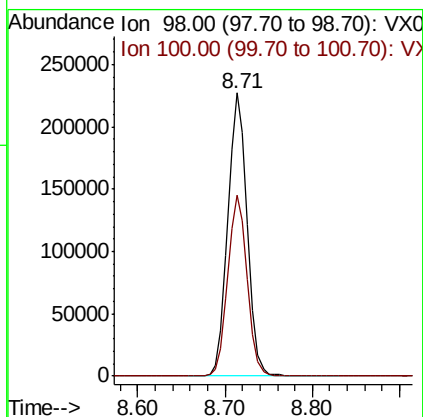
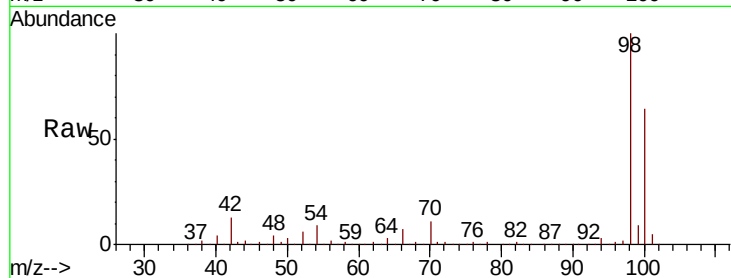




#50
Toluene-d8
Concen: 50.678 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

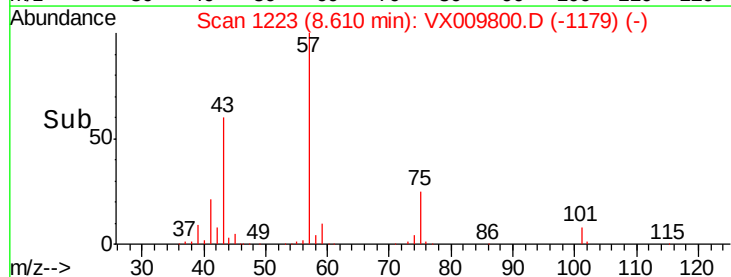
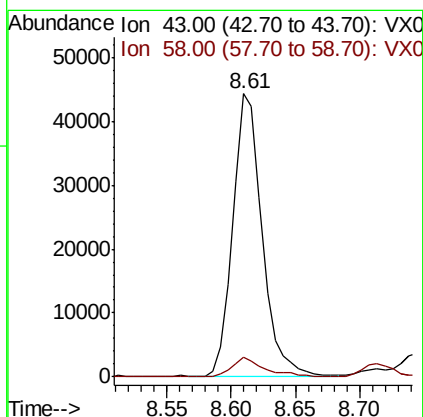
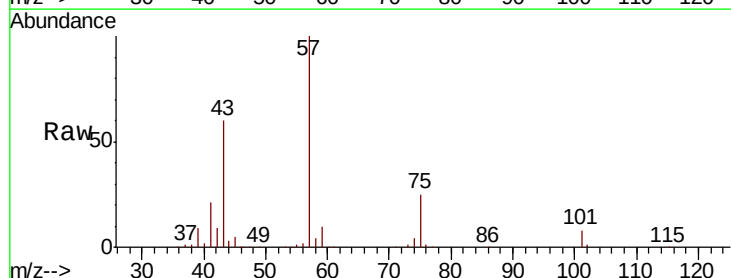
Instrument :
MSVOA_X
ClientSampled :
TP-9-S

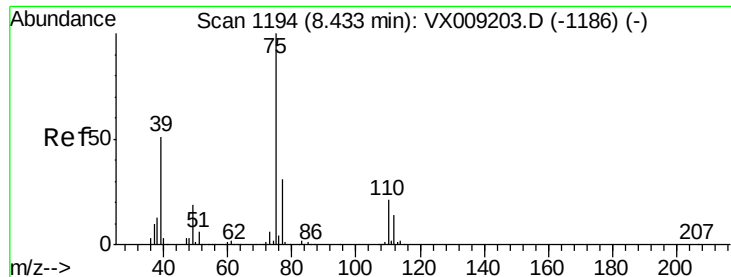
Tot Ion: 98 Resp: 348844
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 19.047 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Tgt Ion: 43 Resp: 69934
Ion Ratio Lower Upper
43 100
58 7.8 29.5 44.3#





#54

cis-1,3-Dichloropropene

Concen: 9.179 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX009800.D

Acq: 22 May 2019 13:37

Instrument :

MSVOA_X

ClientSampled :

TP-9-S

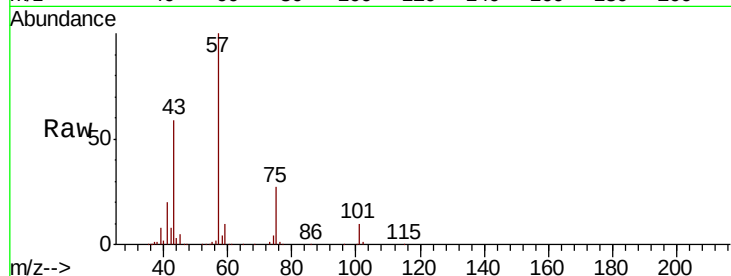
Tot Ion: 75 Resp: 29347

Ion Ratio Lower Upper

75 100

77 0.6 24.6 36.8#

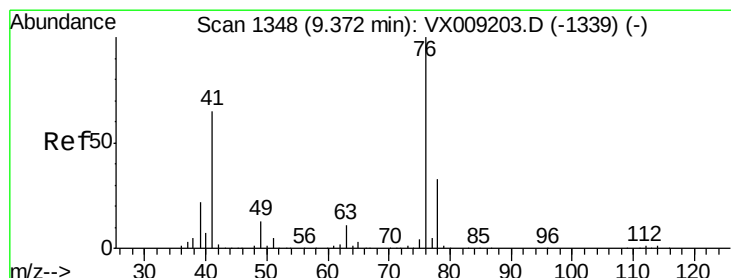
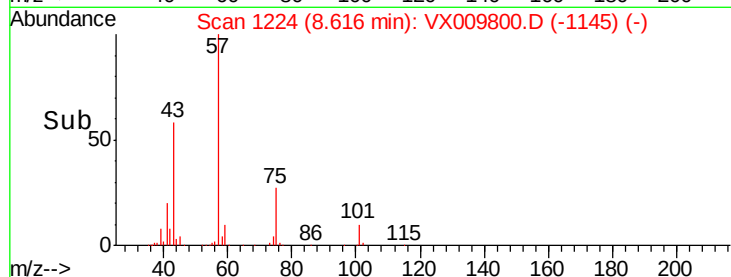
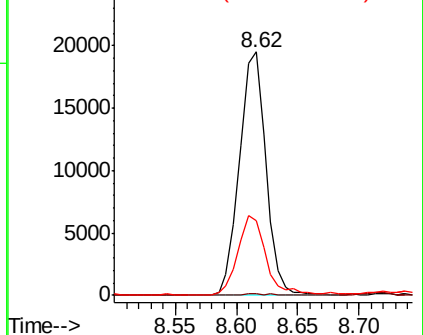
39 30.6 40.6 60.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.543 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX009800.D

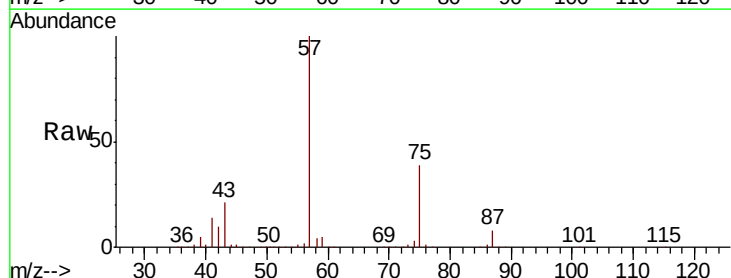
Acq: 22 May 2019 13:37

Tgt Ion: 76 Resp: 5254

Ion Ratio Lower Upper

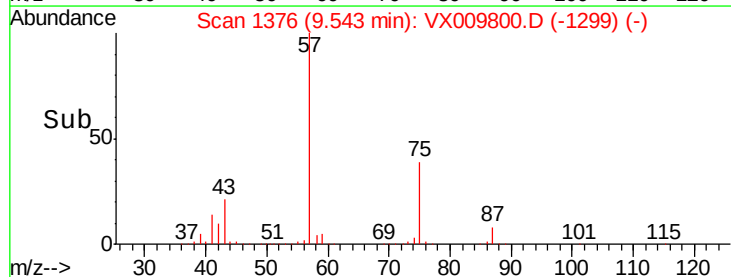
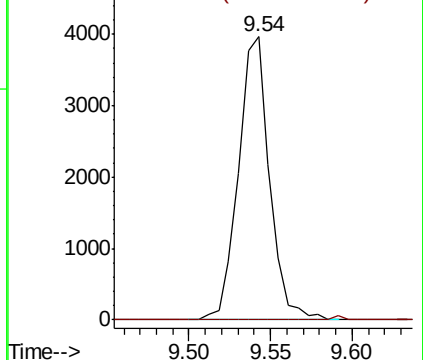
76 100

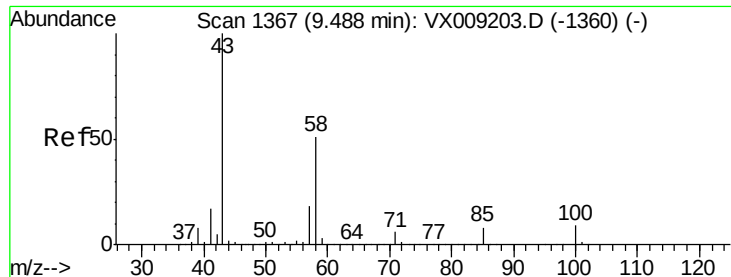
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

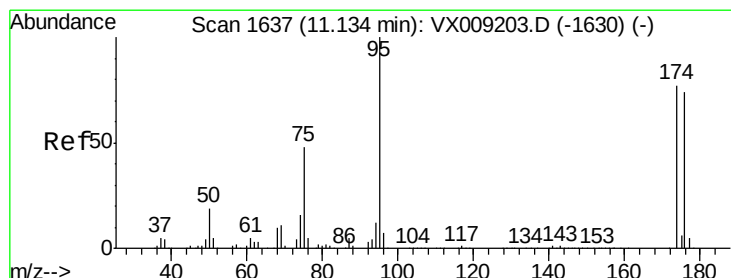
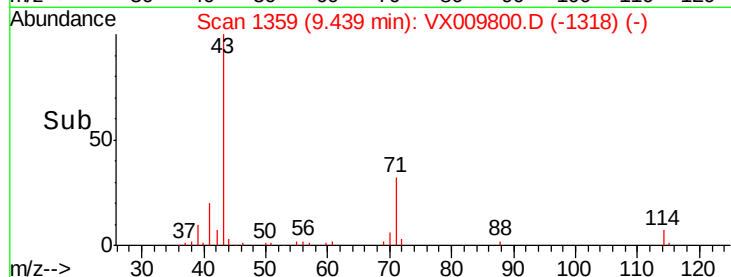
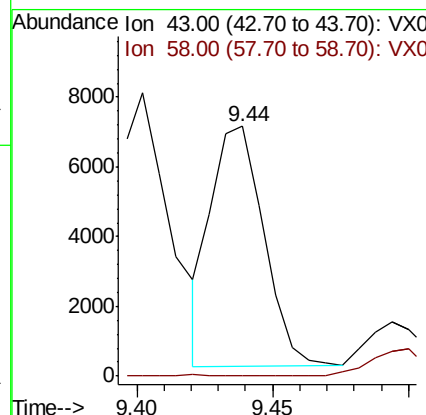
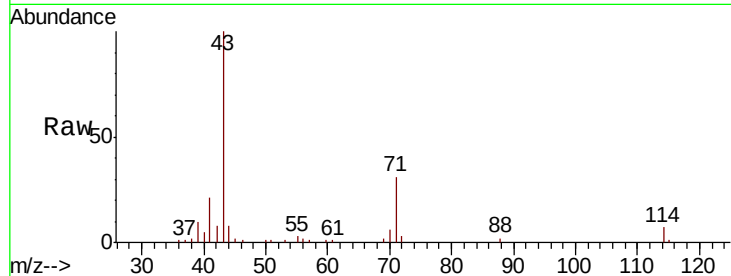




#59
2-Hexanone
Concen: 3.216 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.05 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

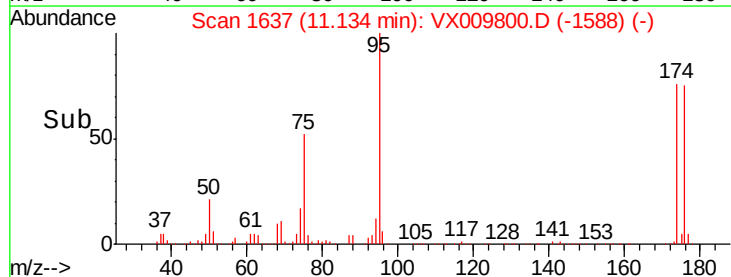
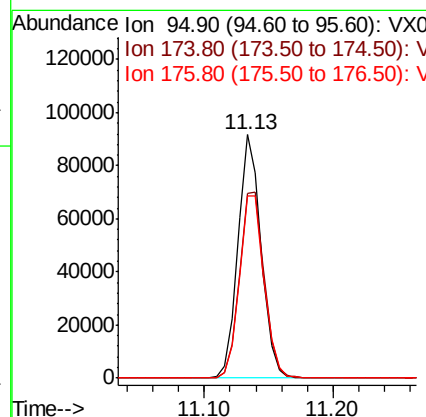
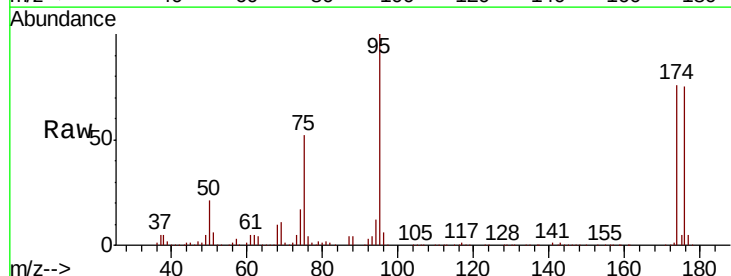
Instrument :
MSVOA_X
ClientSampled :
TP-9-S

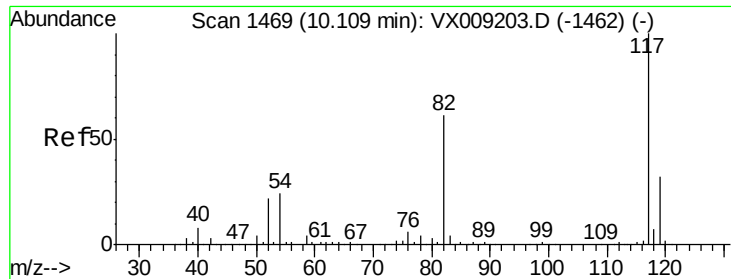
Tot Ion: 43 Resp: 9275
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.7#



#62
4-Bromofluorobenzene
Concen: 46.032 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Tgt Ion: 95 Resp: 115136
Ion Ratio Lower Upper
95 100
174 81.7 0.0 161.6
176 79.8 0.0 159.2

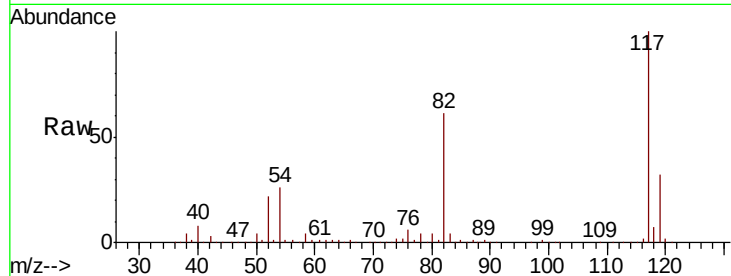




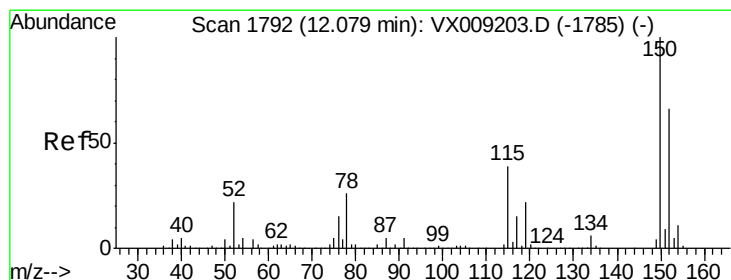
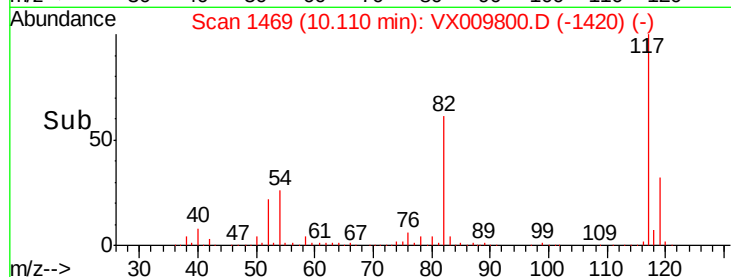
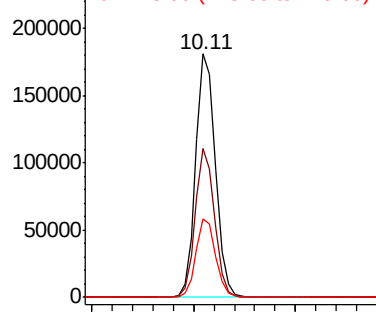
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Instrument :
MSVOA_X
ClientSampled :
TP-9-S

Tot Ion:117 Resp: 243298
Ion Ratio Lower Upper
117 100
82 61.3 48.8 73.2
119 32.4 25.8 38.6

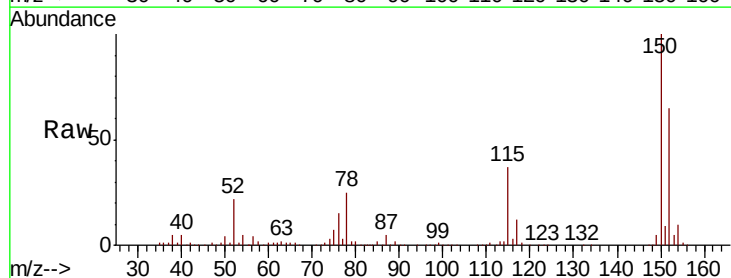


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

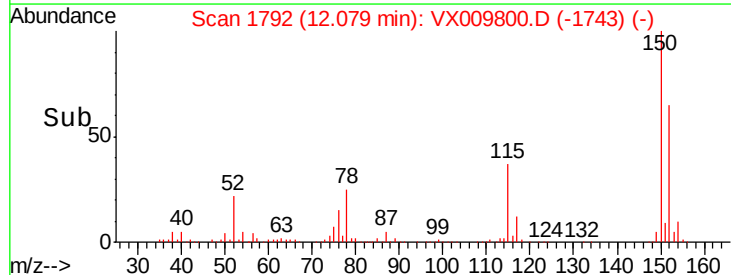
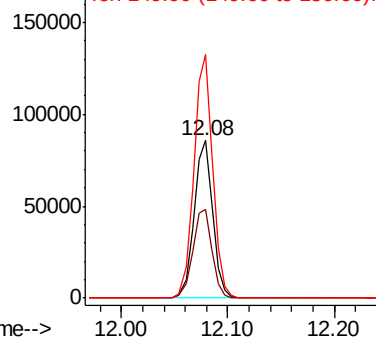


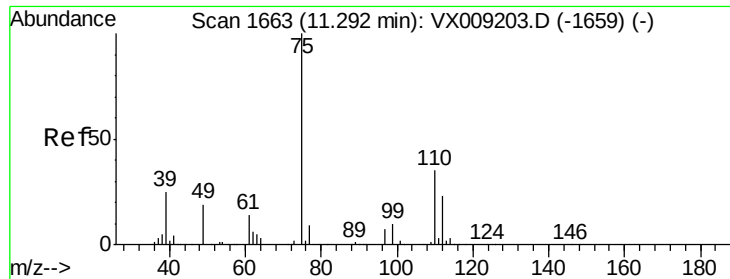
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Tgt Ion:152 Resp: 104166
Ion Ratio Lower Upper
152 100
115 58.3 41.2 123.6
150 155.9 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

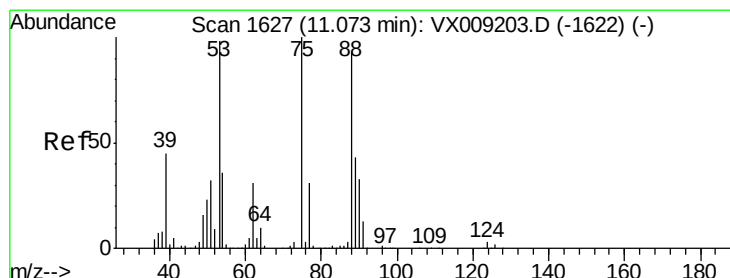
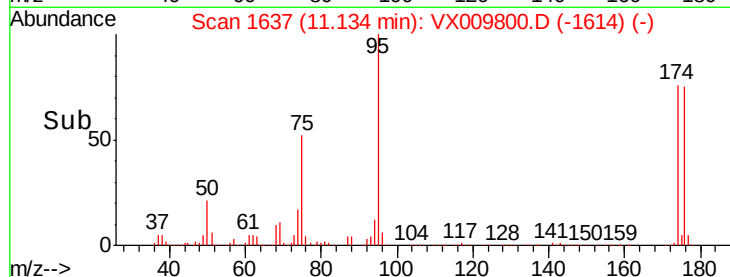
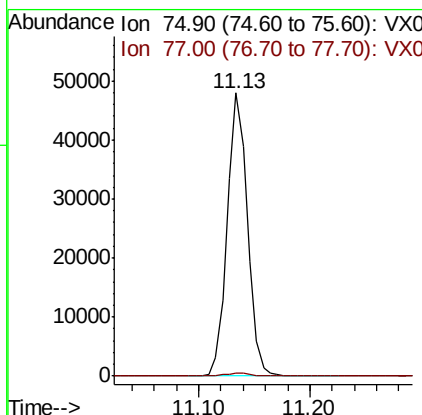
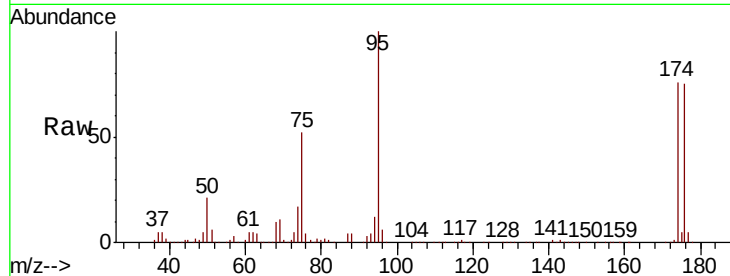




#76
 1,2,3-Trichloropropane
 Concen: 24.955 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009800.D
 Acq: 22 May 2019 13:37

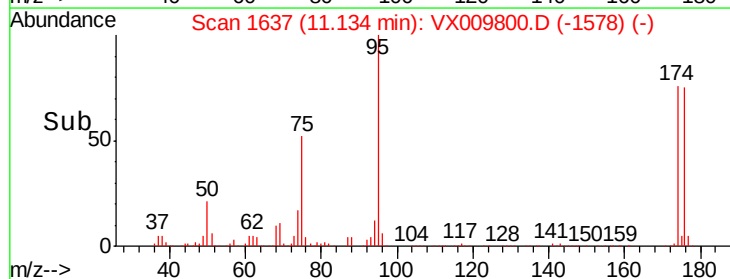
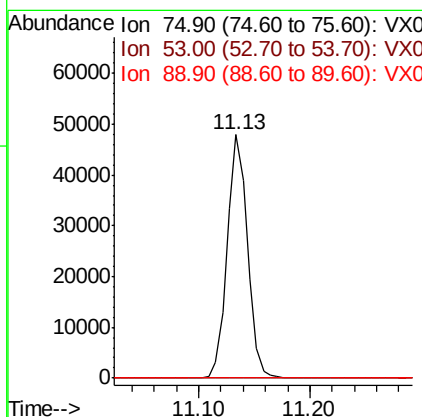
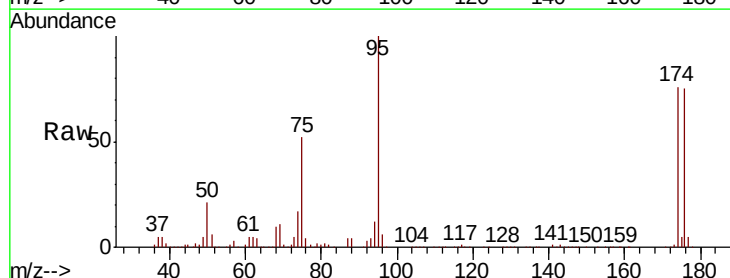
Instrument :
 MSVOA_X
 ClientSampled :
 TP-9-S

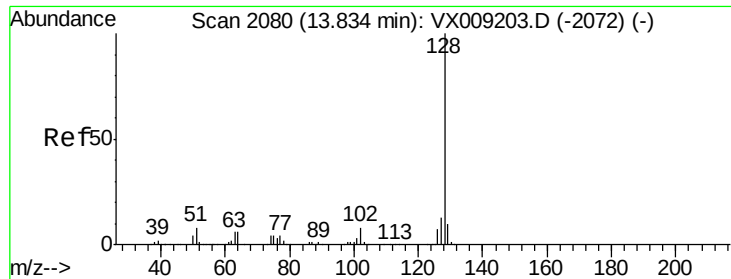
Tot Ion: 75 Resp: 60298
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.851 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009800.D
 Acq: 22 May 2019 13:37

Tgt Ion: 75 Resp: 60298
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.0 118.6#
 89 0.0 34.7 52.1#

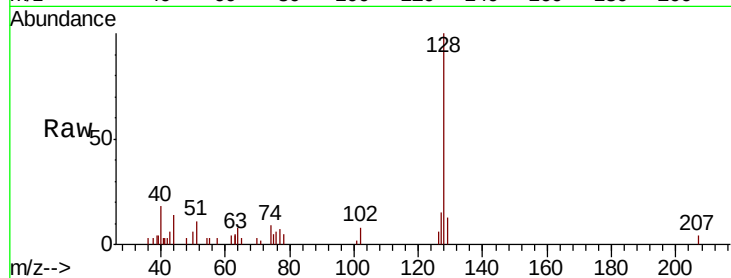




#95
Naphthalene
Concen: 0.358 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX009800.D
Acq: 22 May 2019 13:37

Instrument :
MSVOA_X
ClientSampleId :
TP-9-S

Tot Ion	Ratio	Lower	Upper
128	100		
127	17.1	10.4	15.6#
129	14.4	8.6	13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

