

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071719\
 Data File : VX010927.D
 Acq On : 17 Jul 2019 11:50
 Operator : JC/SP
 Sample : K3834-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-5

Quant Time: Jul 18 02:27:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	218591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	344241	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	315047	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146980	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	113143	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	5.50	113	107266	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
50) Toluene-d8	8.71	98	412465	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	11.13	95	141533	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	

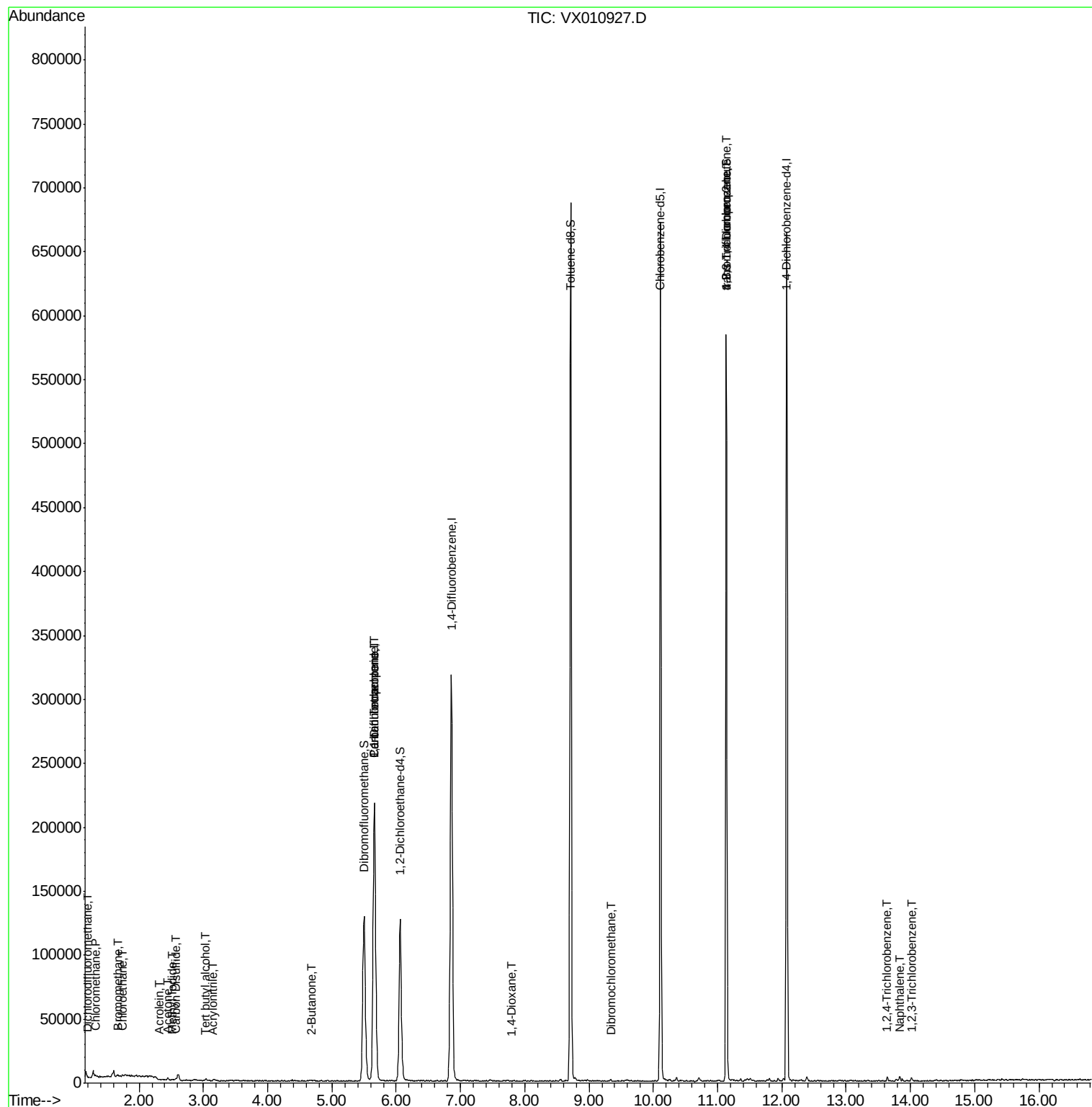
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	128	0.601	ug/l #	43
3) Chloromethane	1.33	50	1176	0.585	ug/l #	80
5) Bromomethane	1.66	94	631	0.546	ug/l	87
6) Chloroethane	1.74	64	634	0.487	ug/l #	41
10) Methyl Iodide	2.52	142	1056	0.406	ug/l #	97
11) Tert butyl alcohol	3.03	59	1427	2.635	ug/l #	77
13) Acrolein	2.32	56	269	0.860	ug/l #	62
15) Acrylonitrile	3.15	53	458	0.419	ug/l #	27
16) Acetone	2.45	43	1701	1.620	ug/l	93
17) Carbon Disulfide	2.57	76	1576	0.316	ug/l #	78
25) 2-Butanone	4.68	43	384	0.255	ug/l #	46
36) 1,1-Dichloropropene	5.66	75	14342	5.072	ug/l #	48
38) Carbon Tetrachloride	5.67	117	19920	6.761	ug/l #	17
49) 1,4-Dioxane	7.79	88	23	0.355	ug/l #	1
60) Dibromochloromethane	9.34	129	161	2.585	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	71194	26.842	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	71194	66.573	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	895	0.280	ug/l	98
95) Naphthalene	13.83	128	2232	0.237	ug/l #	95
96) 1,2,3-Trichlorobenzene	14.02	180	665	0.209	ug/l	87

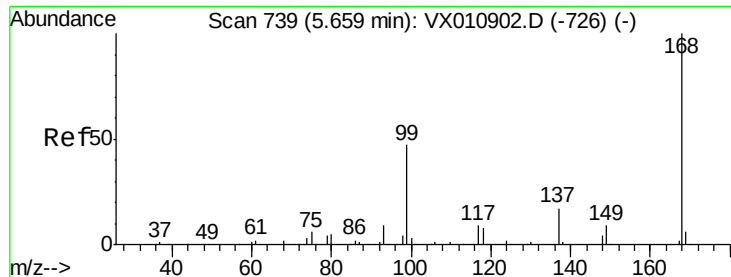
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampled :
TW-5

Quant Time: Jul 18 02:27:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 17 06:57:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

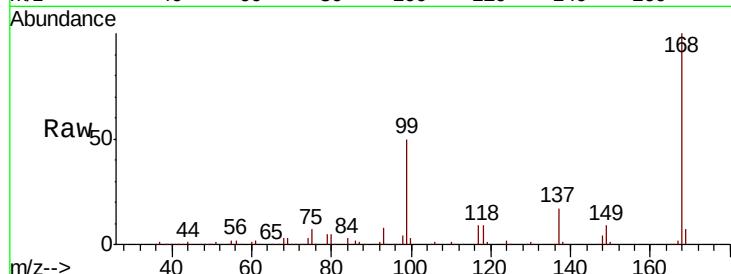
TW-5

Tot Ion:168 Resp: 218591

Ion Ratio Lower Upper

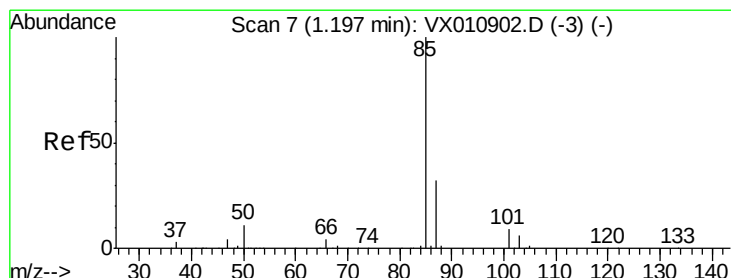
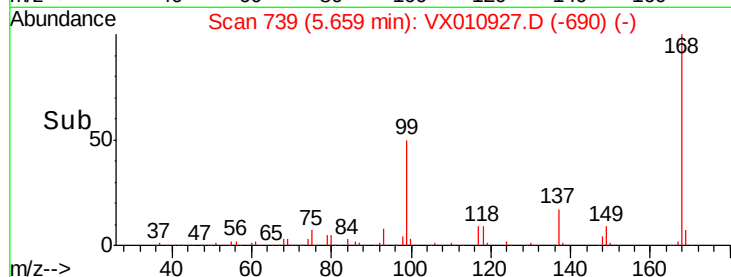
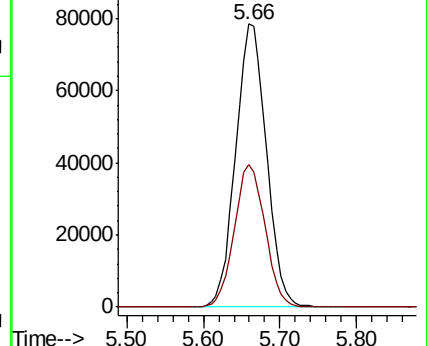
168 100

99 50.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.601 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010927.D

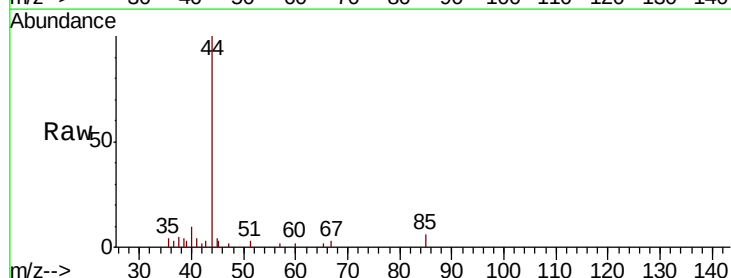
Acq: 17 Jul 2019 11:50

Tgt Ion: 85 Resp: 128

Ion Ratio Lower Upper

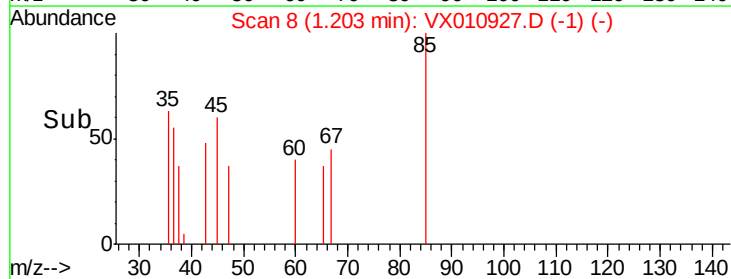
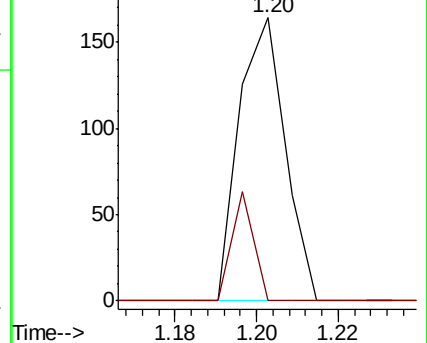
85 100

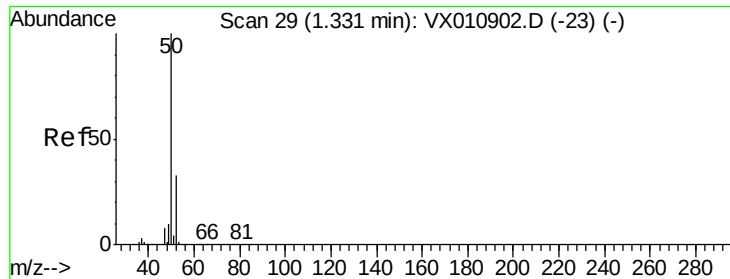
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.585 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

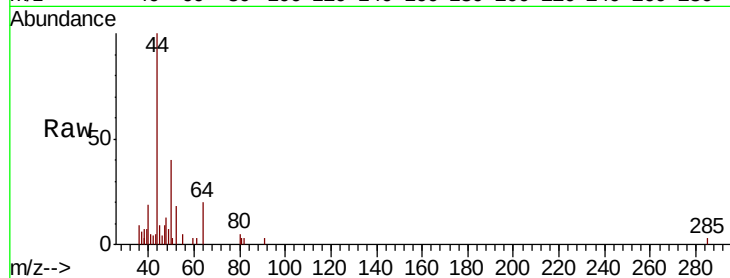
TW-5

Tot Ion: 50 Resp: 1176

Ion Ratio Lower Upper

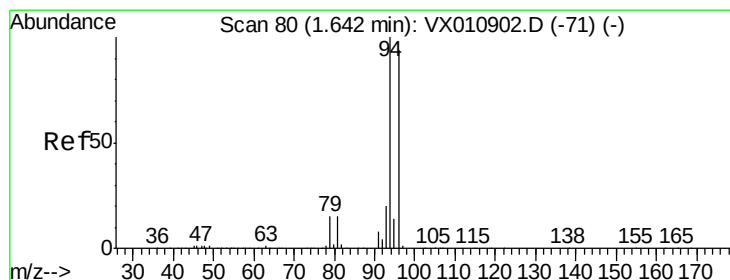
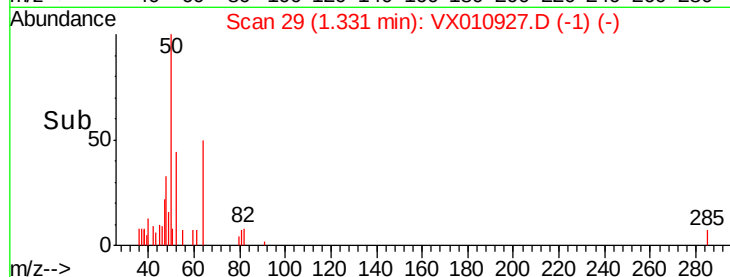
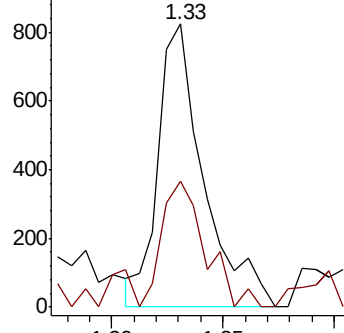
50 100

52 44.4 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: 0.546 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010927.D

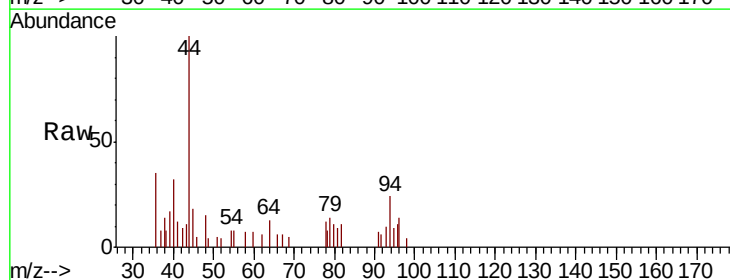
Acq: 17 Jul 2019 11:50

Tgt Ion: 94 Resp: 631

Ion Ratio Lower Upper

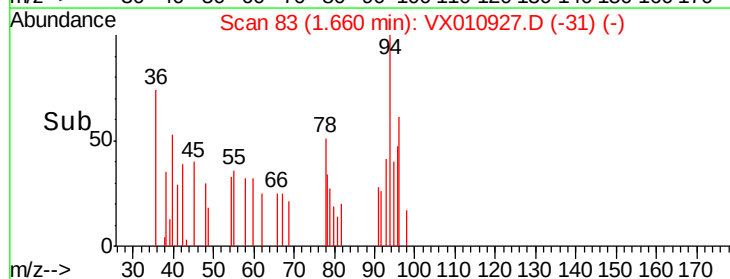
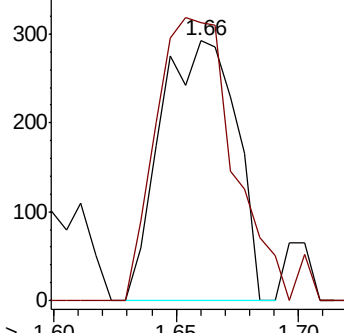
94 100

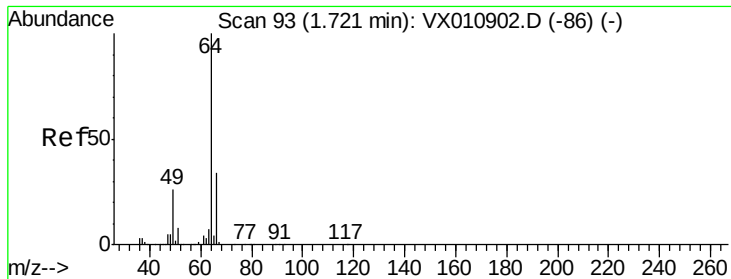
96 107.2 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.487 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

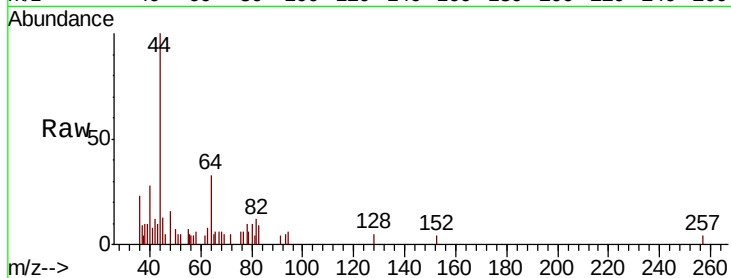
TW-5

Tot Ion: 64 Resp: 634

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

600

400

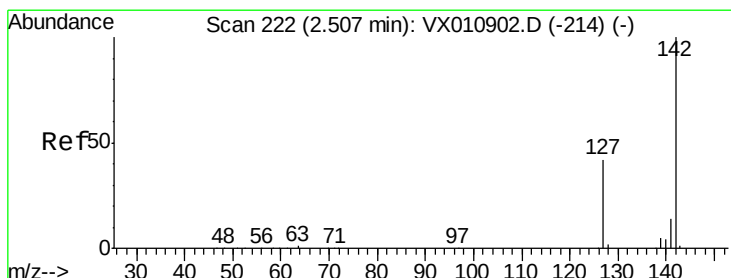
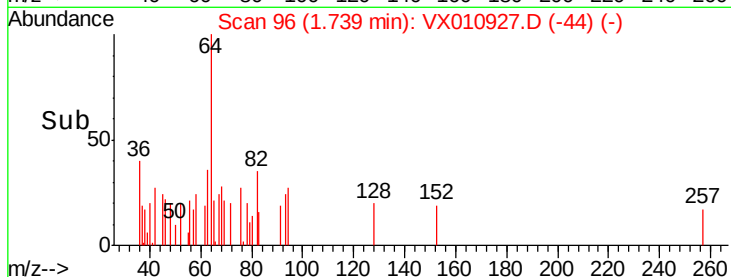
200

0

1.70

1.75

Time-->



#10

Methyl Iodide

Concen: 0.406 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

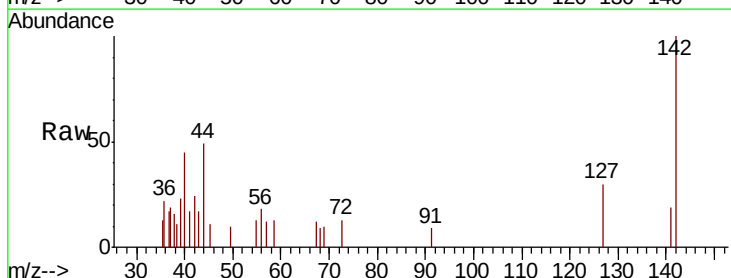
Tgt Ion: 142 Resp: 1056

Ion Ratio Lower Upper

142 100

127 42.4 34.2 51.4

141 11.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

800

600

400

200

0

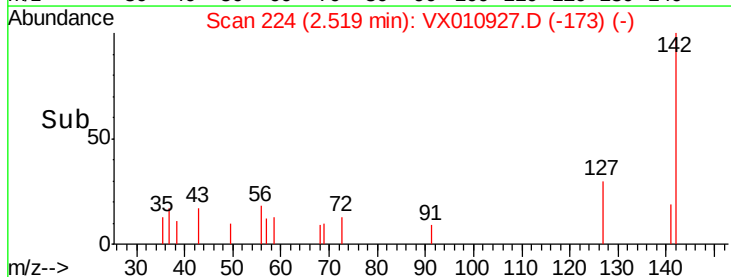
2.45

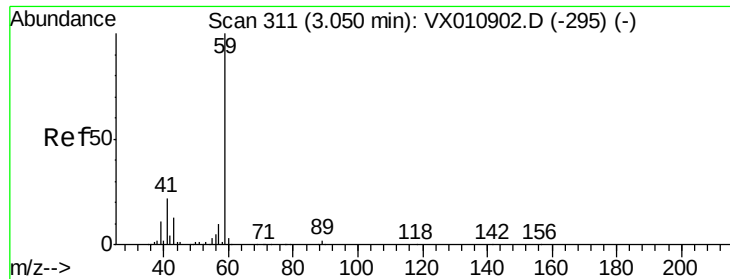
2.50

2.55

2.60

Time-->

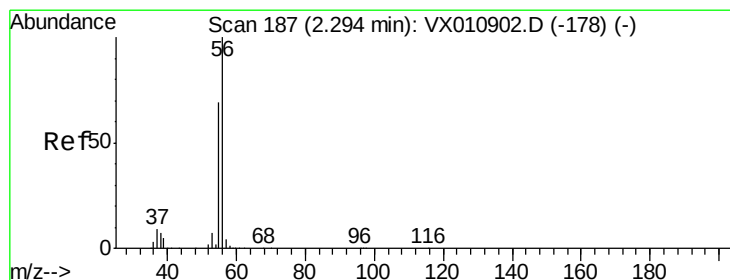
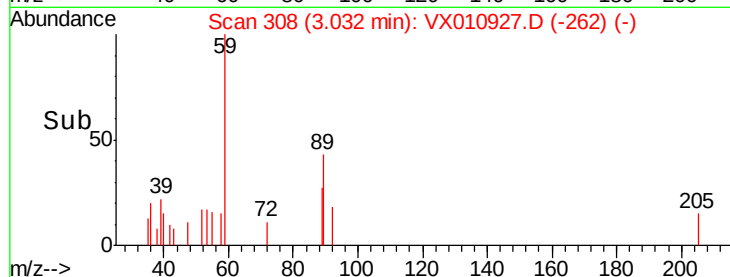
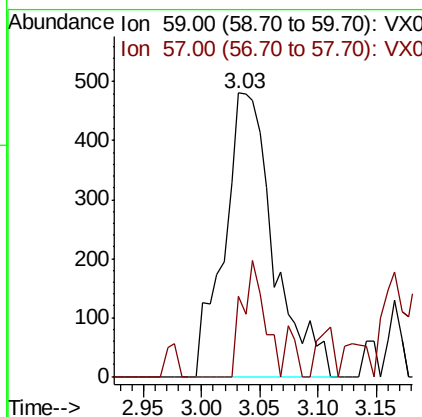
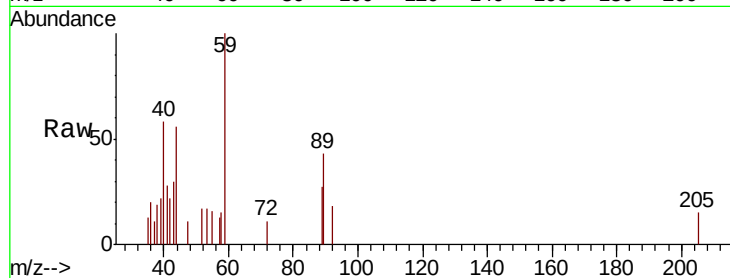




#11
Tert butyl alcohol
Concen: 2.635 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX010927.D
Acq: 17 Jul 2019 11:50

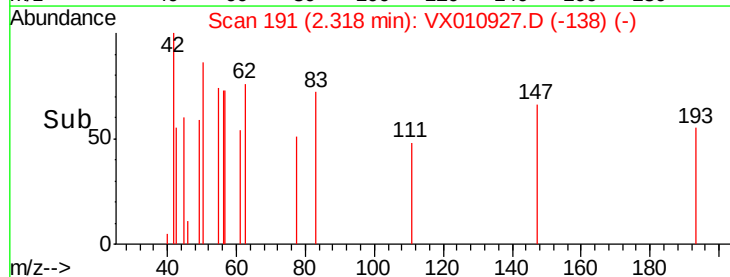
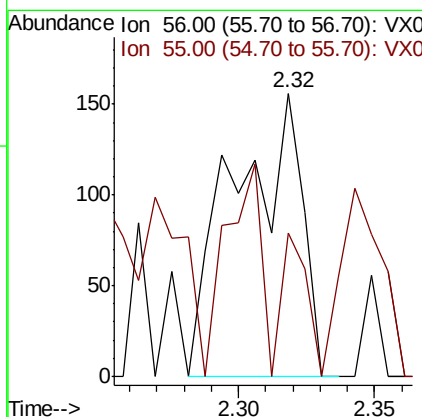
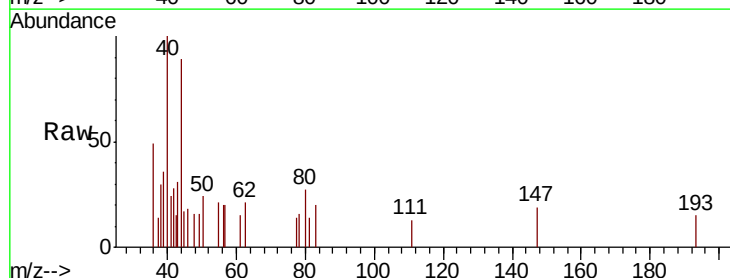
Instrument :
MSVOA_X
ClientSampled :
TW-5

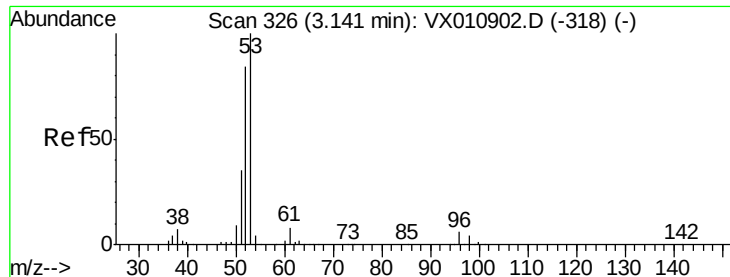
Tot Ion: 59 Resp: 1427
Ion Ratio Lower Upper
59 100
57 18.4 7.9 11.9#



#13
Acrolein
Concen: 0.860 ug/l
RT: 2.32 min Scan# 191
Delta R.T. 0.02 min
Lab File: VX010927.D
Acq: 17 Jul 2019 11:50

Tgt Ion: 56 Resp: 269
Ion Ratio Lower Upper
56 100
55 38.7 55.9 83.9#





#15

Acrylonitrile

Concen: 0.419 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

TW-5

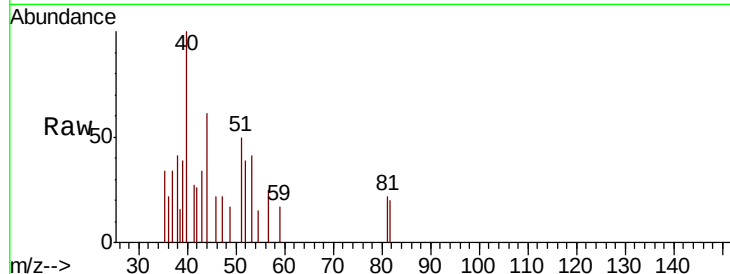
Tot Ion: 53 Resp: 458

Ion Ratio Lower Upper

53 100

52 0.0 66.5 99.7#

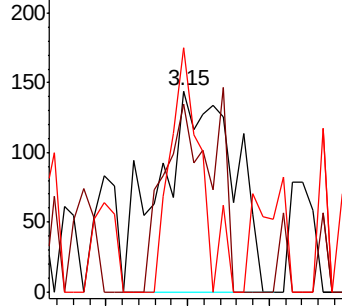
51 50.7 28.2 42.4#



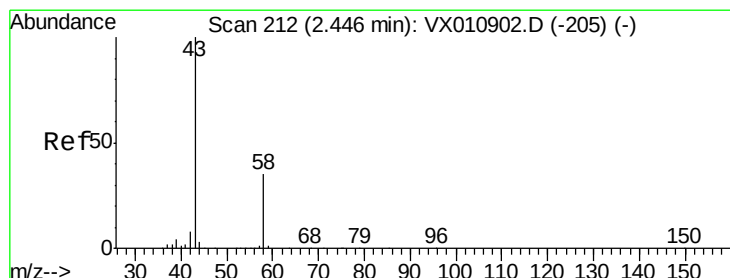
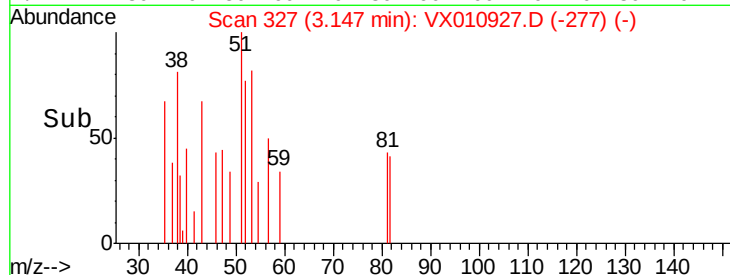
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 1.620 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010927.D

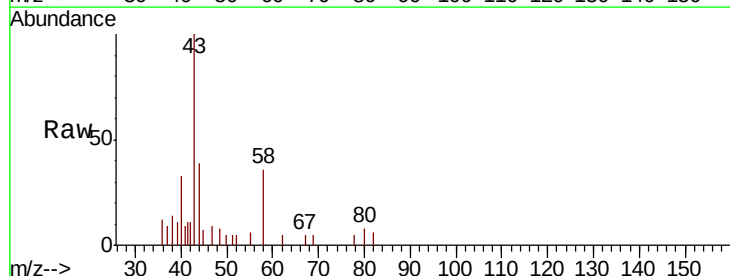
Acq: 17 Jul 2019 11:50

Tgt Ion: 43 Resp: 1701

Ion Ratio Lower Upper

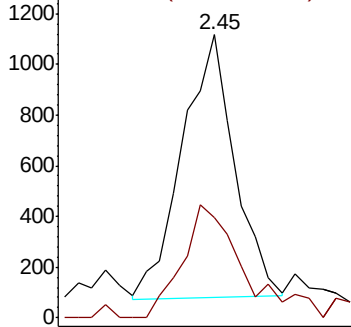
43 100

58 38.6 27.7 41.5

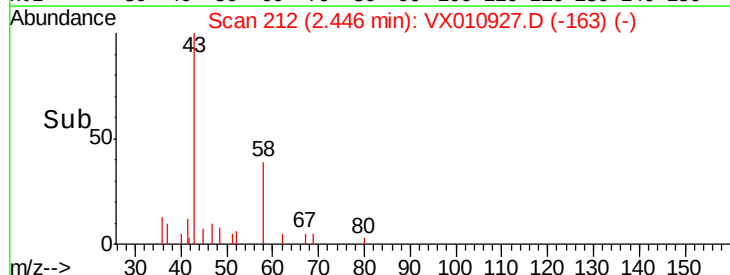


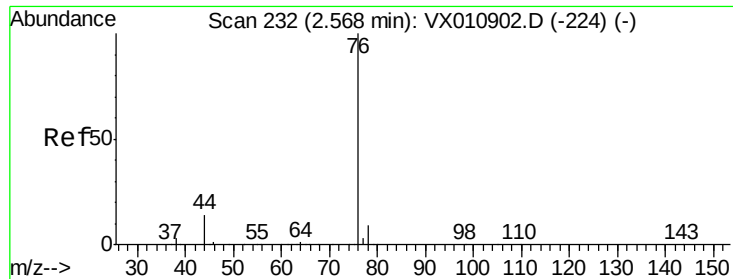
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.316 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampleId :

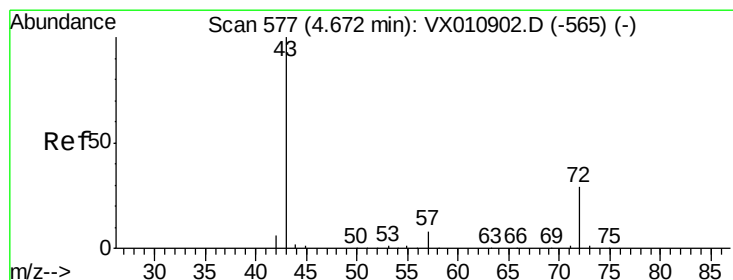
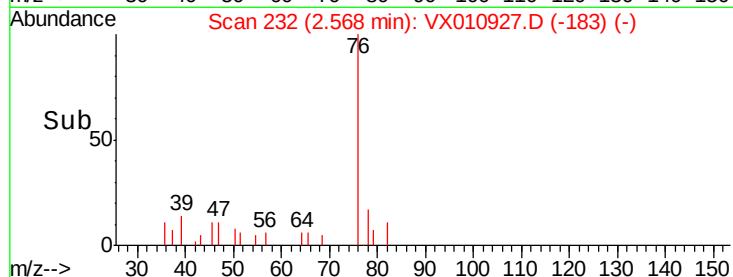
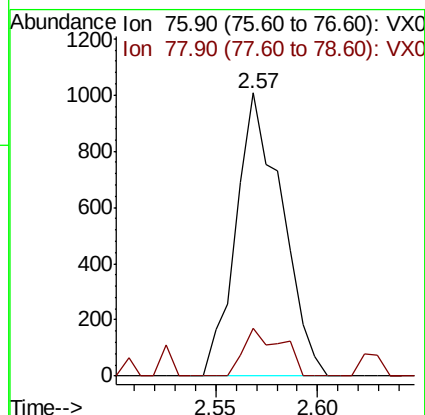
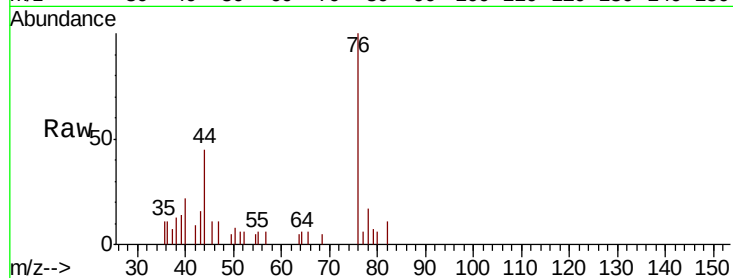
TW-5

Tot Ion: 76 Resp: 1576

Ion Ratio Lower Upper

76 100

78 17.1 7.4 11.0#



#25

2-Butanone

Concen: 0.255 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX010927.D

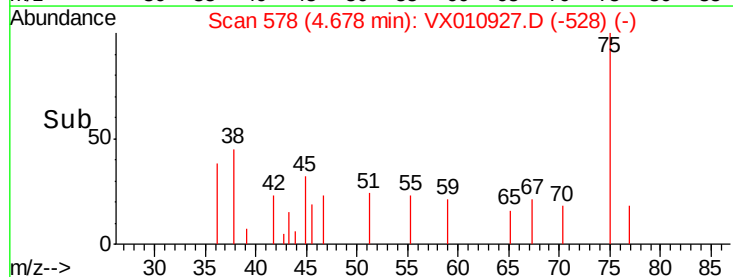
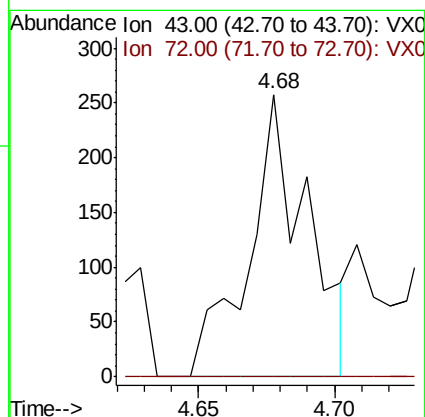
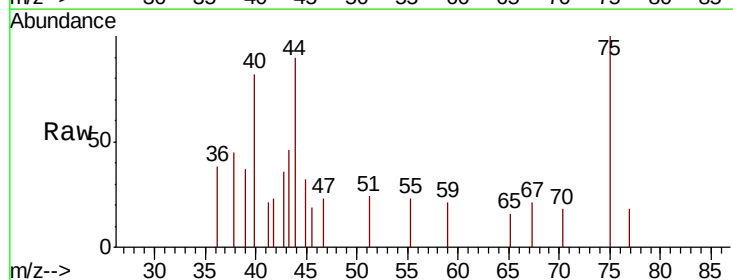
Acq: 17 Jul 2019 11:50

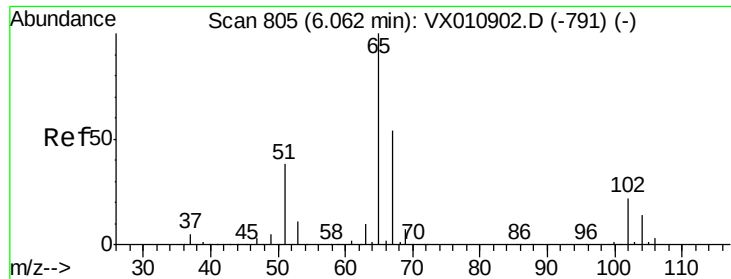
Tgt Ion: 43 Resp: 384

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#

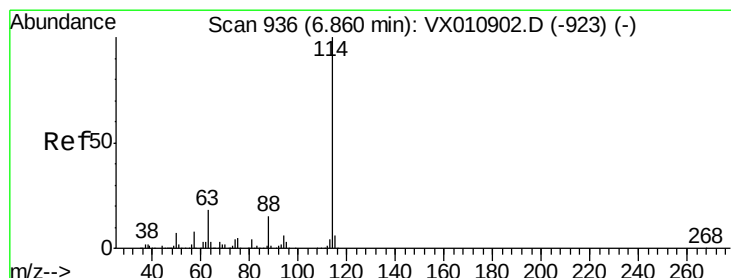
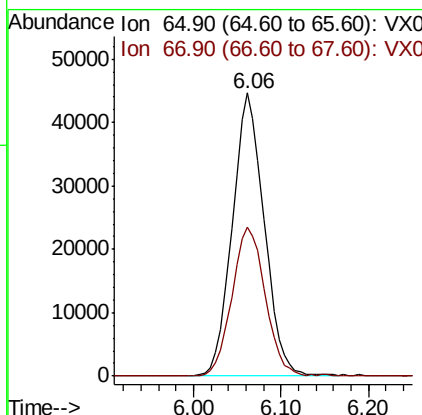
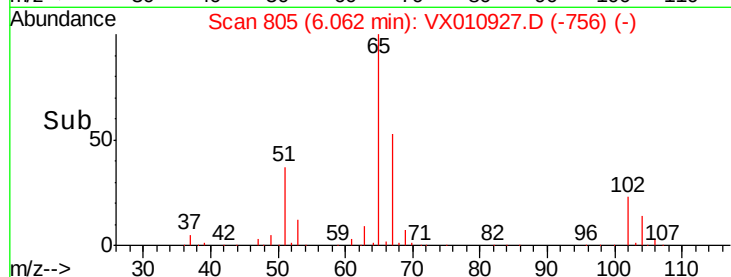
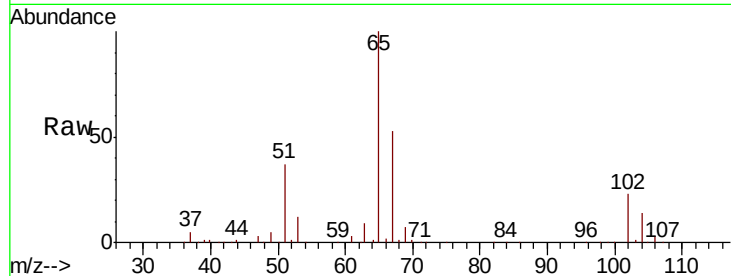




#33
 1,2-Dichloroethane-d4
 Concen: 48.654 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010927.D
 Acq: 17 Jul 2019 11:50

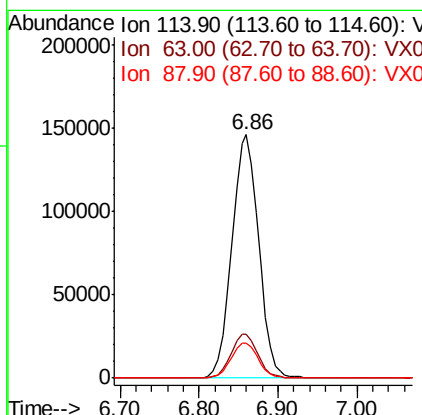
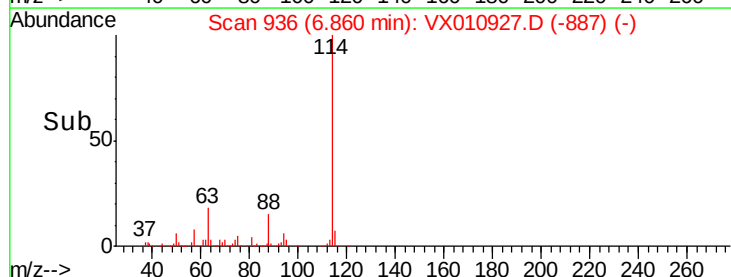
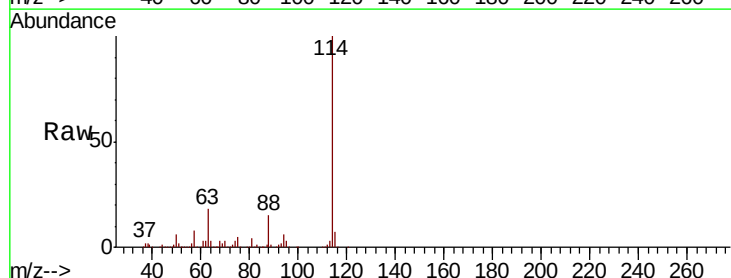
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-5

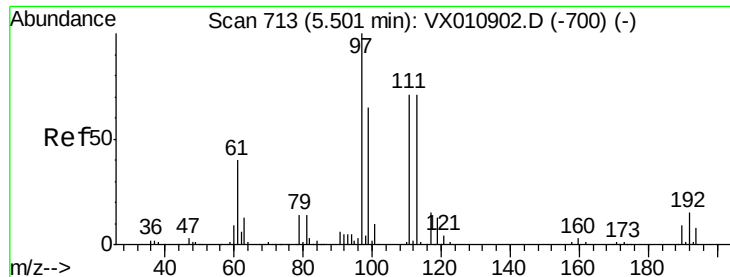
Tot Ion: 65 Resp: 113143
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010927.D
 Acq: 17 Jul 2019 11:50

Tgt Ion: 114 Resp: 344241
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.6
 88 14.6 0.0 29.8

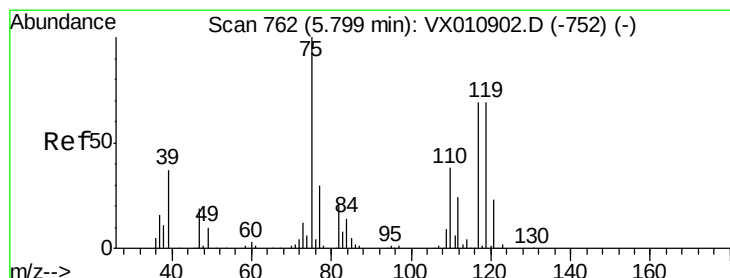
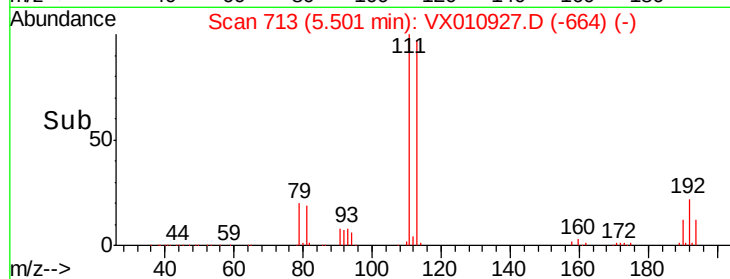
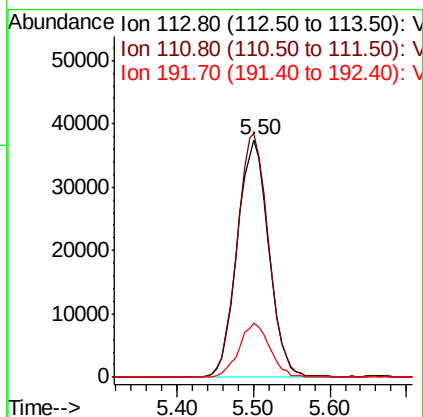
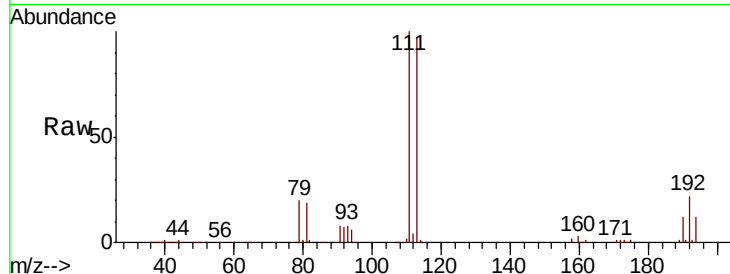




#35
 Dibromofluoromethane
 Concen: 49.093 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX010927.D
 Acq: 17 Jul 2019 11:50

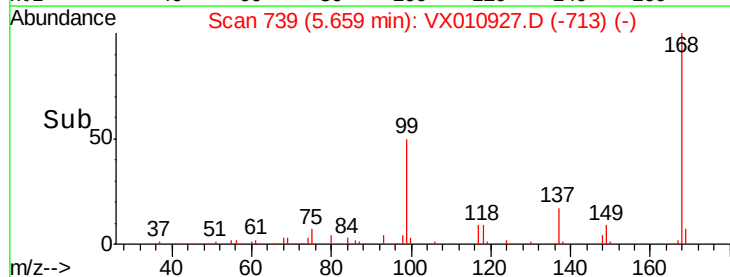
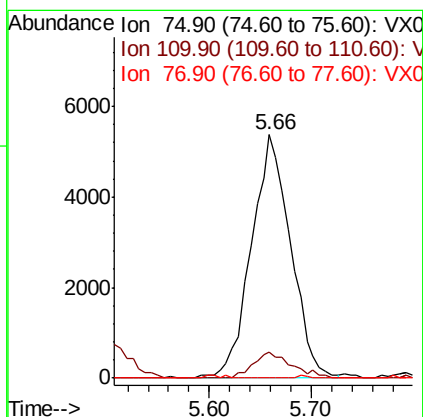
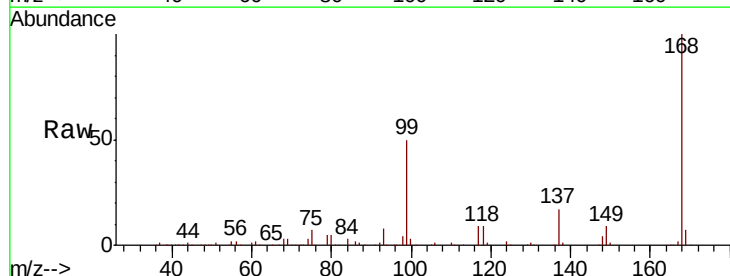
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-5

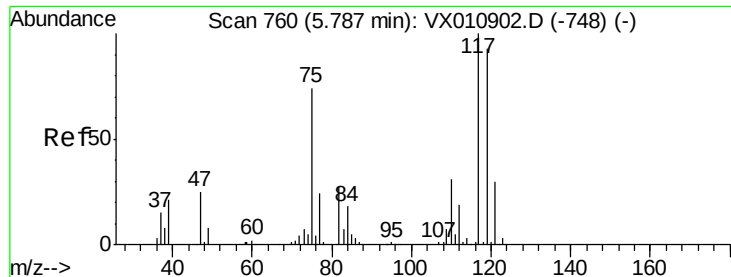
Tot Ion:113 Resp: 107266
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.3 123.5
 192 22.3 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.072 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010927.D
 Acq: 17 Jul 2019 11:50

Tgt Ion: 75 Resp: 14342
 Ion Ratio Lower Upper
 75 100
 110 10.5 19.9 59.7#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.761 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

TW-5

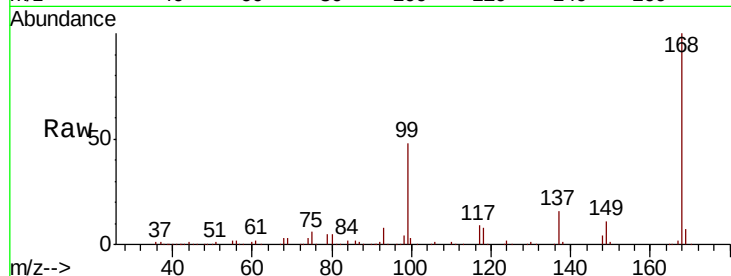
Tot Ion:117 Resp: 19920

Ion Ratio Lower Upper

117 100

119 4.2 74.2 111.2#

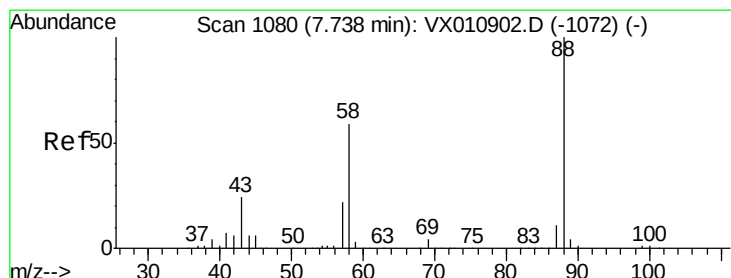
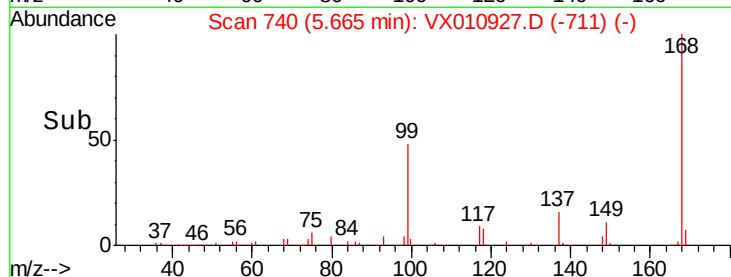
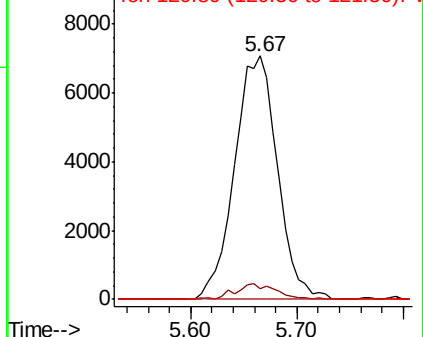
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.355 ug/l

RT: 7.79 min Scan# 1089

Delta R.T. 0.05 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

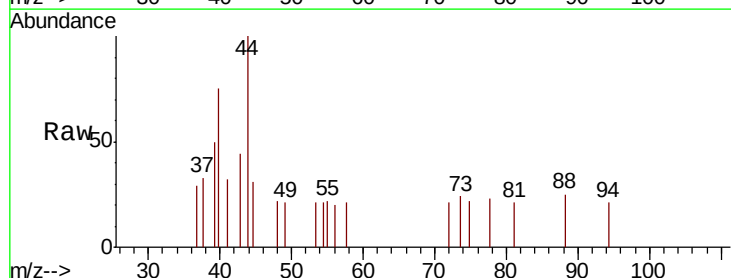
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 556.5 22.9 34.3#

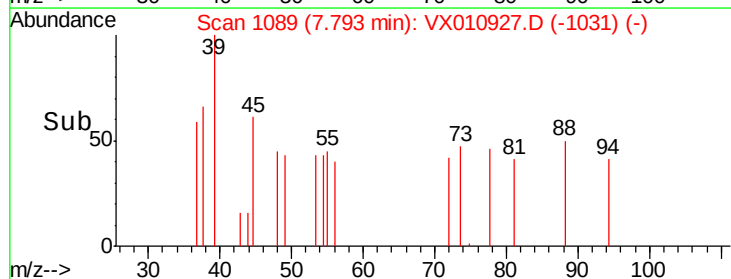
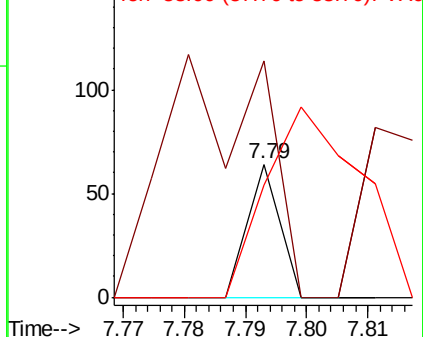
58 426.1 49.8 74.8#

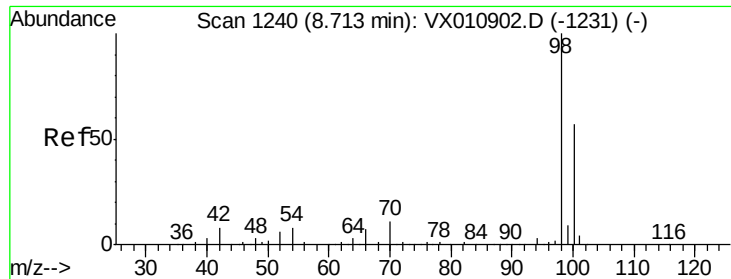


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.331 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

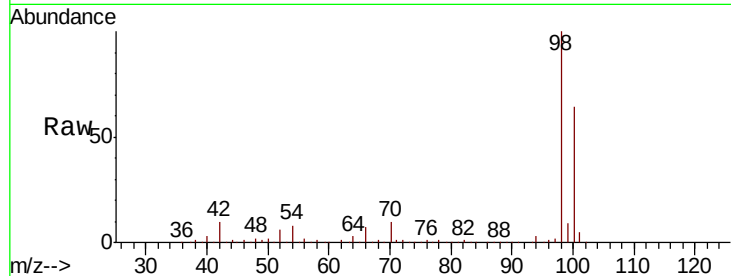
TW-5

Tot Ion: 98 Resp: 412465

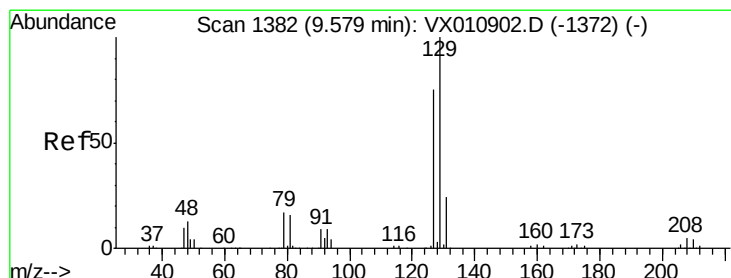
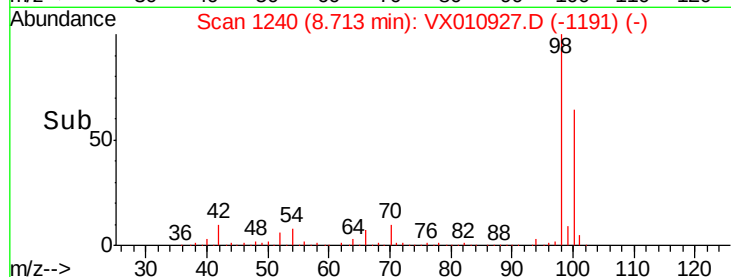
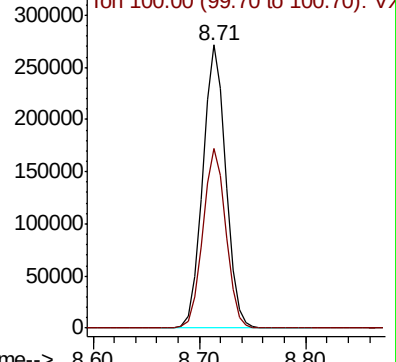
Ion Ratio Lower Upper

98 100

100 63.5 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX010902.D (-1231) (-)



#60

Dibromochloromethane

Concen: 2.585 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. -0.24 min

Lab File: VX010927.D

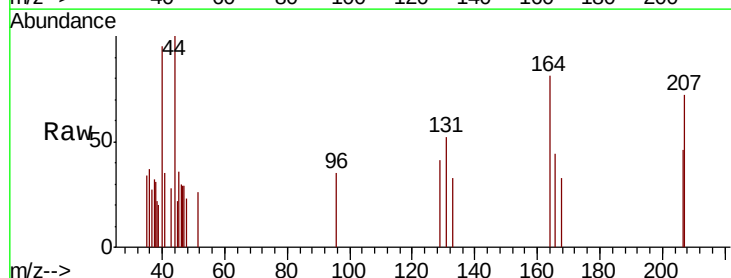
Acq: 17 Jul 2019 11:50

Tgt Ion: 129 Resp: 161

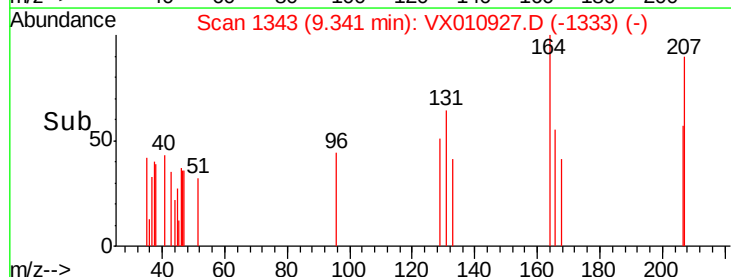
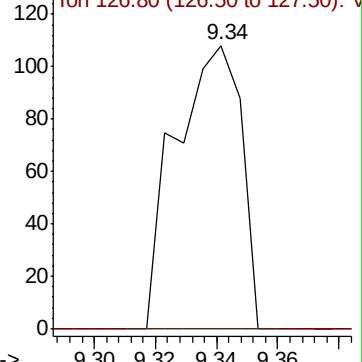
Ion Ratio Lower Upper

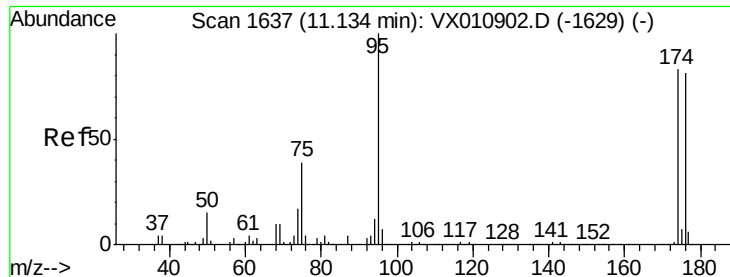
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 46.986 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

TW-5

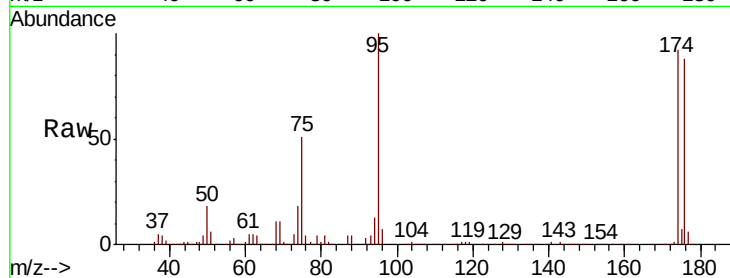
Tot Ion: 95 Resp: 141533

Ion Ratio Lower Upper

95 100

174 92.7 0.0 180.6

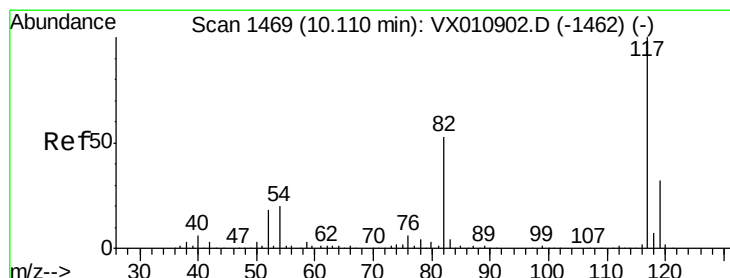
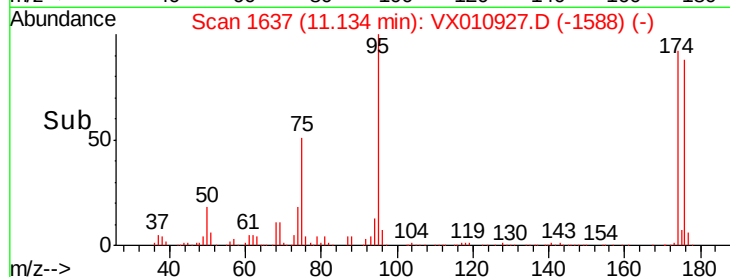
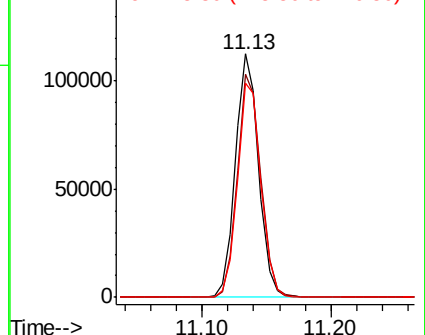
176 89.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX010927.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010927.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010927.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

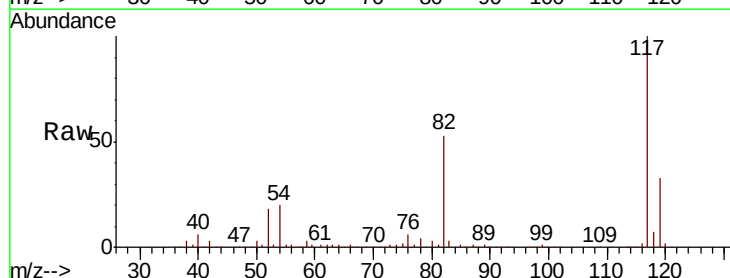
Tgt Ion: 117 Resp: 315047

Ion Ratio Lower Upper

117 100

82 52.6 42.6 63.8

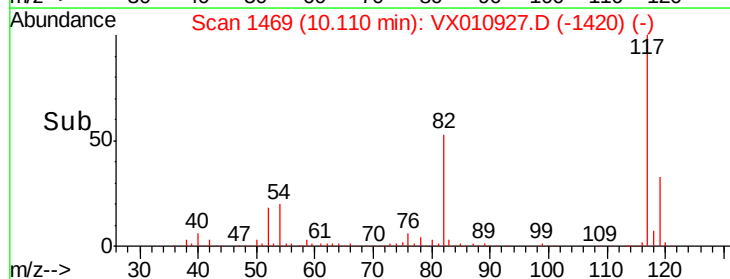
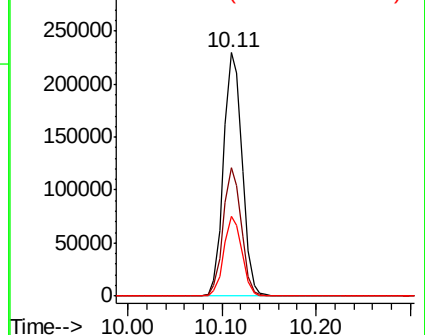
119 32.8 25.9 38.9

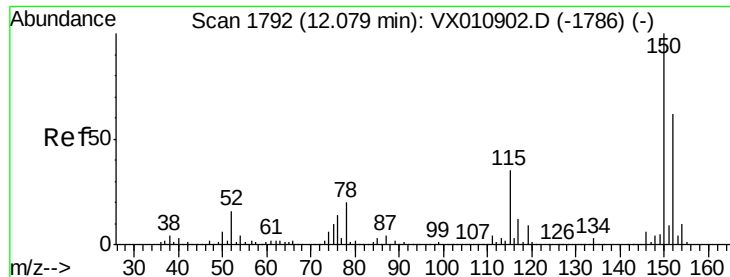


Abundance Ion 116.90 (116.60 to 117.60): VX010927.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010927.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010927.D (-1420) (-)



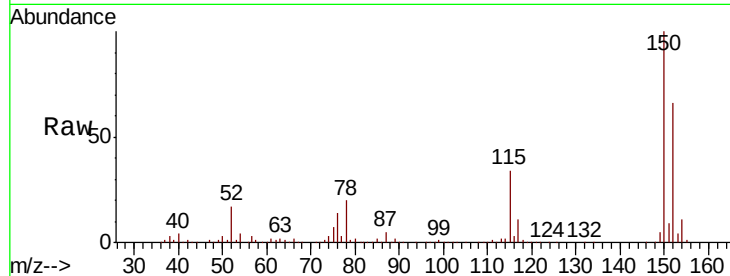


#72

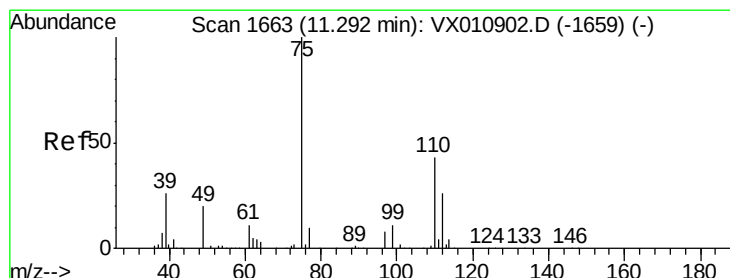
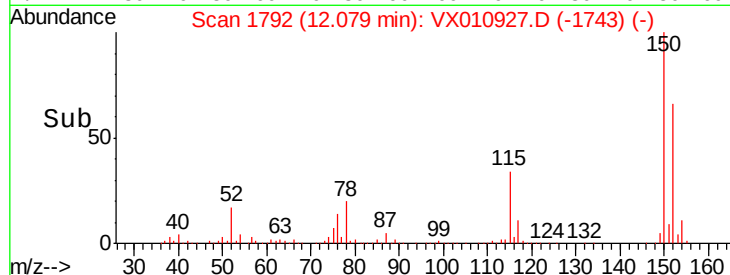
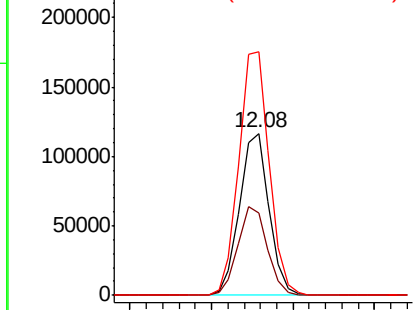
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010927.D
Acq: 17 Jul 2019 11:50

Instrument :
MSVOA_X
ClientSampled :
TW-5

Tot Ion:152 Resp: 146980
Ion Ratio Lower Upper
152 100
115 54.9 39.7 119.1
150 155.2 0.0 345.6



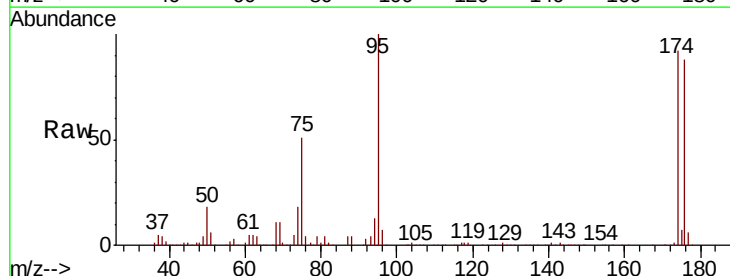
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



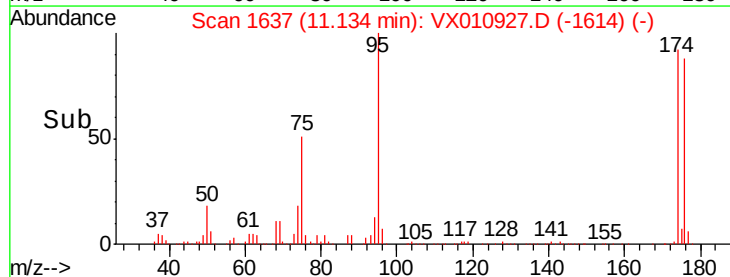
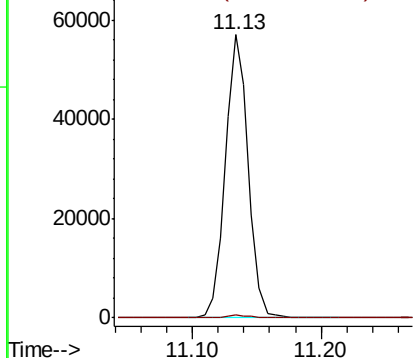
#76

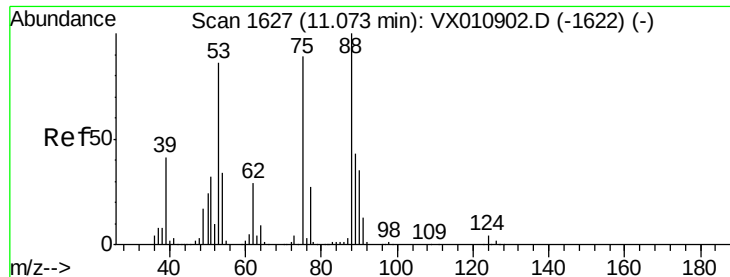
1,2,3-Trichloropropane
Concen: 26.842 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010927.D
Acq: 17 Jul 2019 11:50

Tgt Ion: 75 Resp: 71194
Ion Ratio Lower Upper
75 100
77 1.2 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.573 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

TW-5

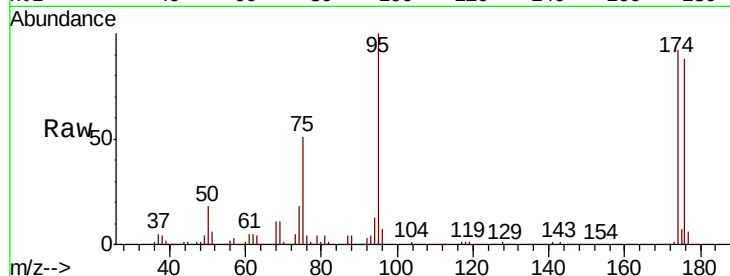
Tot Ion: 75 Resp: 71194

Ion Ratio Lower Upper

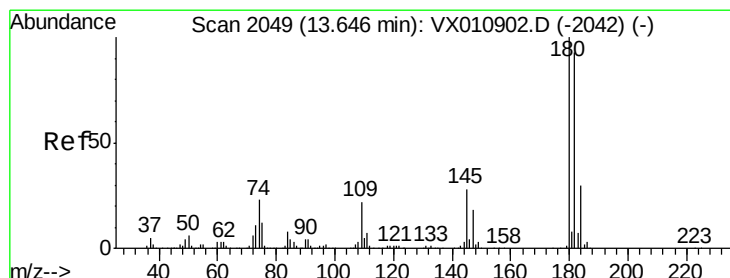
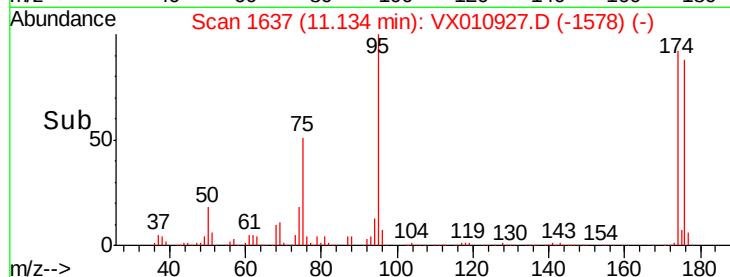
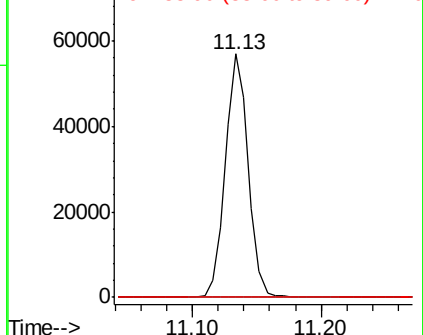
75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.280 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX010927.D

Acq: 17 Jul 2019 11:50

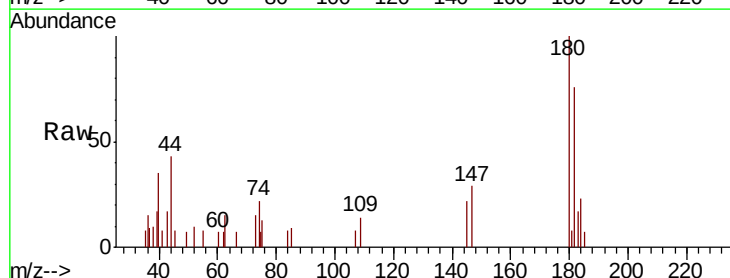
Tgt Ion: 180 Resp: 895

Ion Ratio Lower Upper

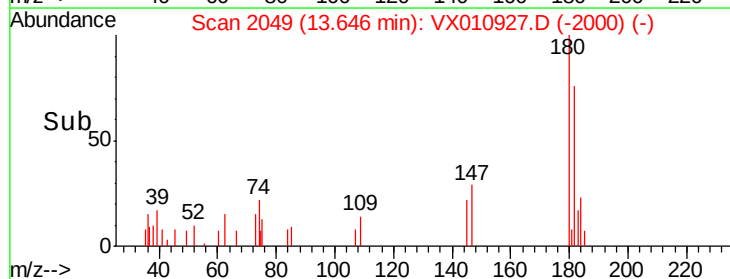
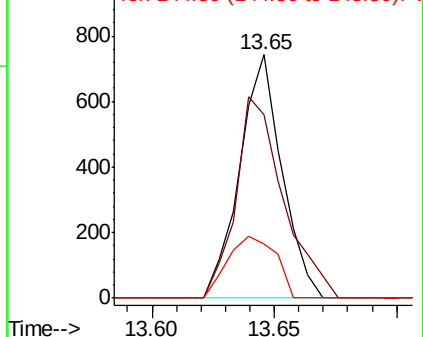
180 100

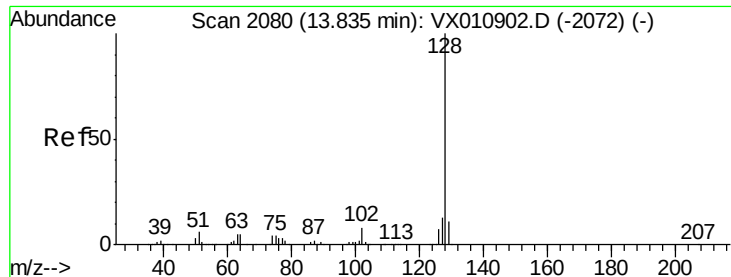
182 92.5 47.1 141.3

145 28.7 14.8 44.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

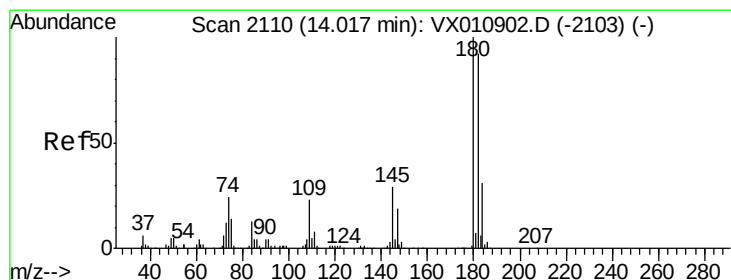
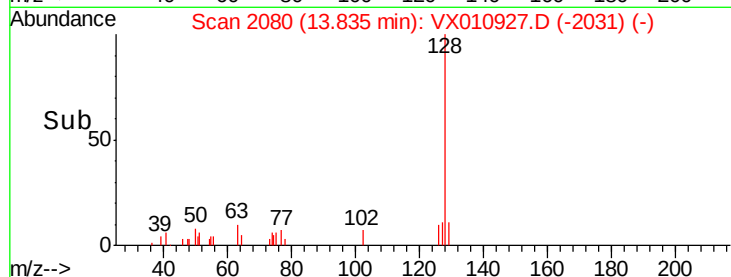
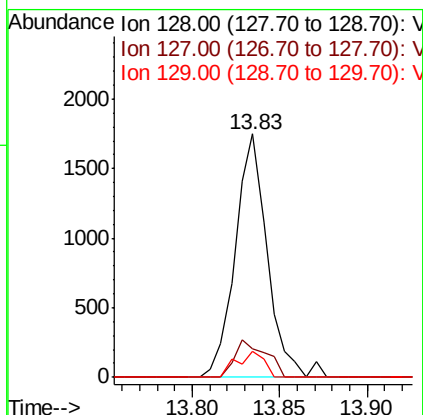
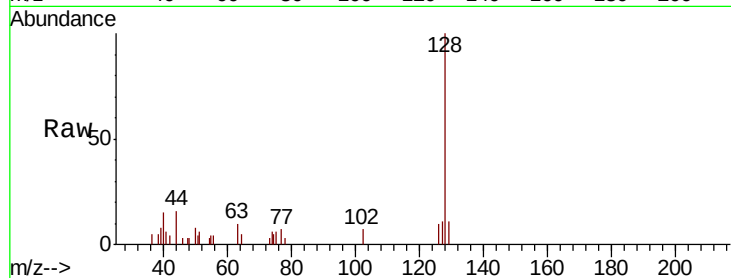




#95
Naphthalene
Concen: 0.237 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX010927.D
Acq: 17 Jul 2019 11:50

Instrument :
MSVOA_X
ClientSampleId :
TW-5

Tot Ion:128 Resp: 2232
Ion Ratio Lower Upper
128 100
127 14.8 10.4 15.6
129 8.8 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 0.209 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. -0.00 min
Lab File: VX010927.D
Acq: 17 Jul 2019 11:50

Tgt Ion:180 Resp: 665
Ion Ratio Lower Upper
180 100
182 103.5 47.4 142.3
145 44.2 15.1 45.3

