

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009499.D
 Acq On : 10 May 2019 22:23
 Operator : JC/SP
 Sample : K2783-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0522-190508

Quant Time: May 11 03:32:48 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	183079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	293436	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256775	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110682	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	119749	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
35) Dibromofluoromethane	5.50	113	88592	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
50) Toluene-d8	8.71	98	365209	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
62) 4-Bromofluorobenzene	11.13	95	120652	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	

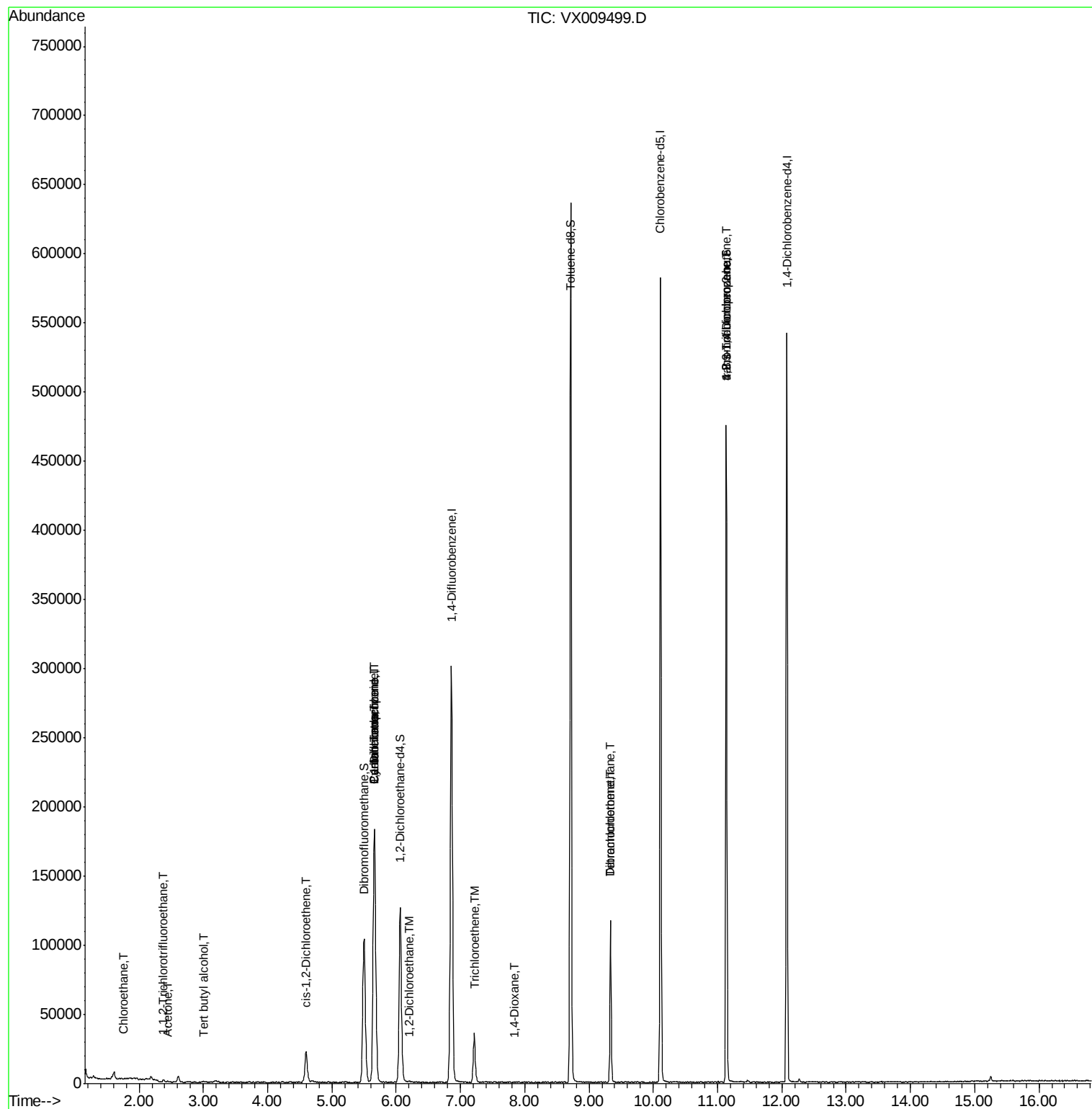
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.75	64	574	0.398	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.39	101	425	0.248	ug/l #	90
11) Tert butyl alcohol	3.00	59	601	1.039	ug/l #	73
16) Acetone	2.45	43	831	0.619	ug/l #	55
27) cis-1,2-Dichloroethene	4.60	96	13801	6.206	ug/l	88
28) Bromochloromethane	5.01	49	25	Below Cal	#	20
31) Cyclohexane	5.66	56	3874	1.048	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13955	5.117	ug/l #	50
38) Carbon Tetrachloride	5.67	117	17324	6.992	ug/l #	16
42) 1,2-Dichloroethane	6.20	62	844	0.279	ug/l	81
44) Trichloroethene	7.21	130	12782	6.265	ug/l	98
49) 1,4-Dioxane	7.84	88	20	0.327	ug/l #	1
60) Dibromochloromethane	9.34	129	21162	10.353	ug/l #	11
64) Tetrachloroethene	9.34	164	22290	12.655	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	61811	24.075	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61811	61.600	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

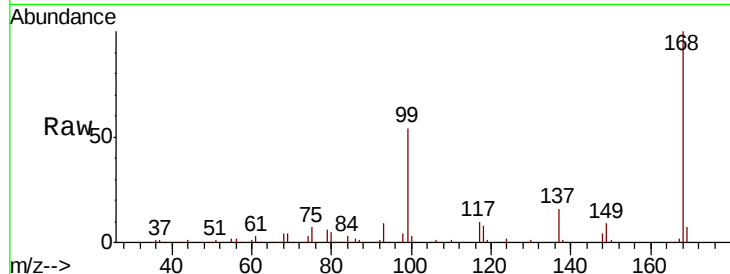
DUP-0522-190508

Tot Ion:168 Resp: 183079

Ion Ratio Lower Upper

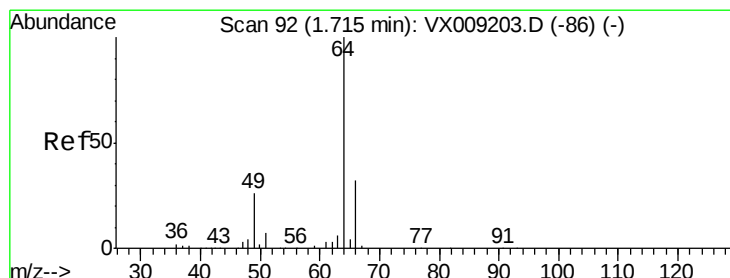
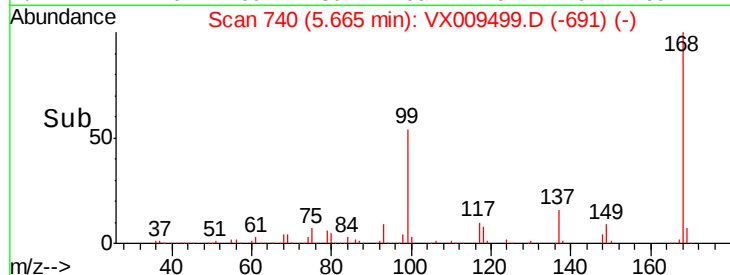
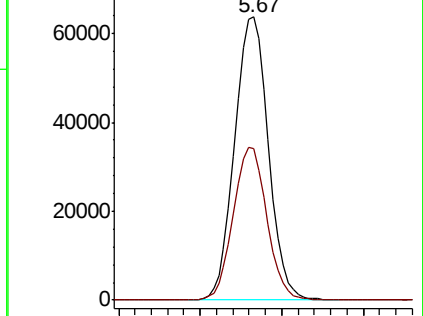
168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.398 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX009499.D

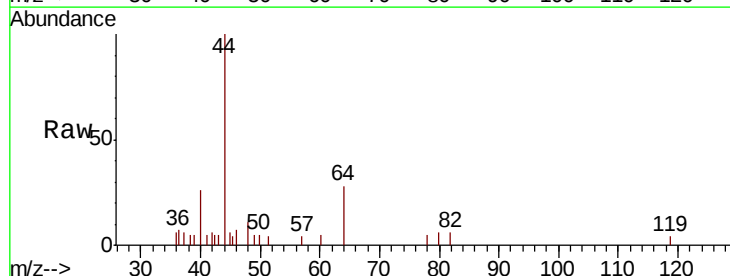
Acq: 10 May 2019 22:23

Tgt Ion: 64 Resp: 574

Ion Ratio Lower Upper

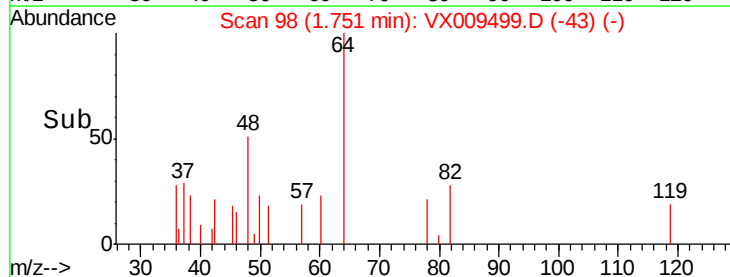
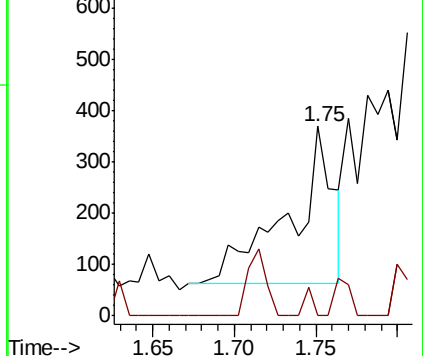
64 100

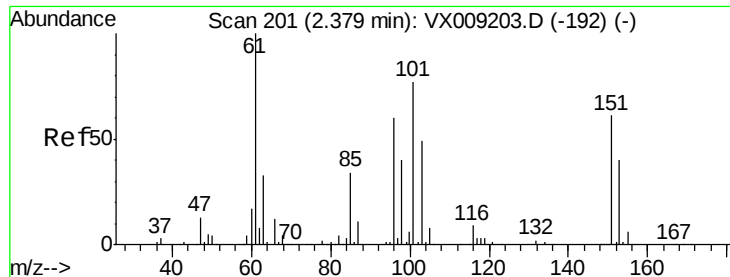
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.248 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

DUP-0522-190508

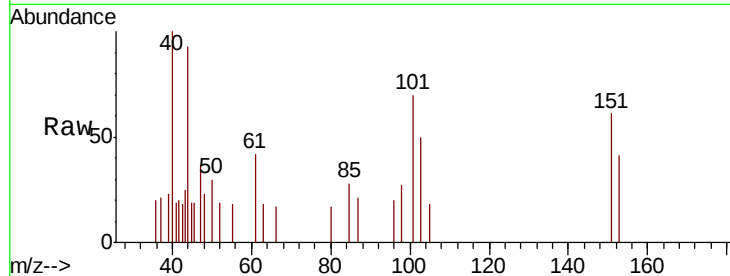
Tot Ion:101 Resp: 425

Ion Ratio Lower Upper

101 100

85 33.4 35.7 53.5#

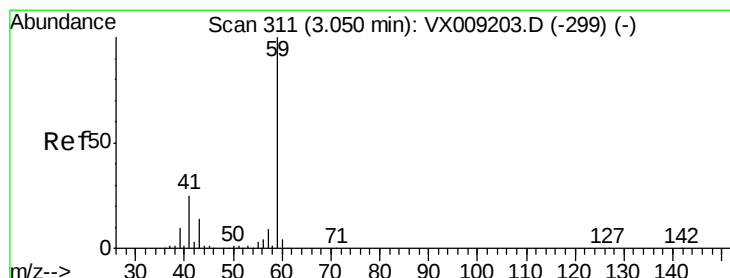
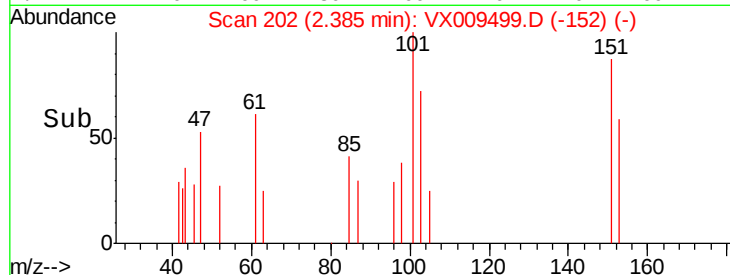
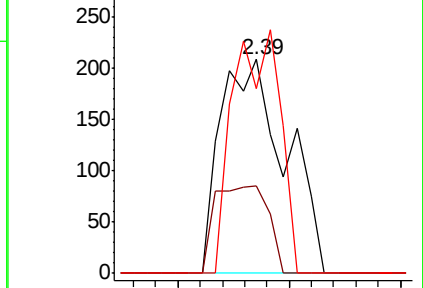
151 82.4 62.2 93.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.039 ug/l

RT: 3.00 min Scan# 303

Delta R.T. -0.05 min

Lab File: VX009499.D

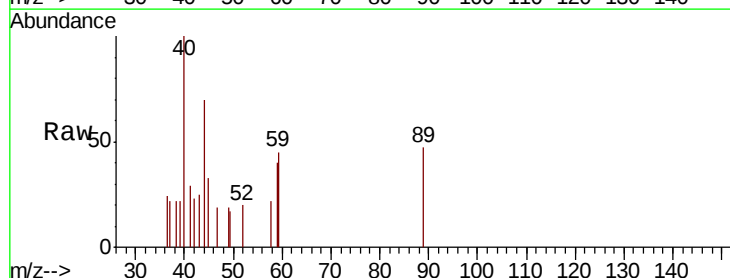
Acq: 10 May 2019 22:23

Tgt Ion: 59 Resp: 601

Ion Ratio Lower Upper

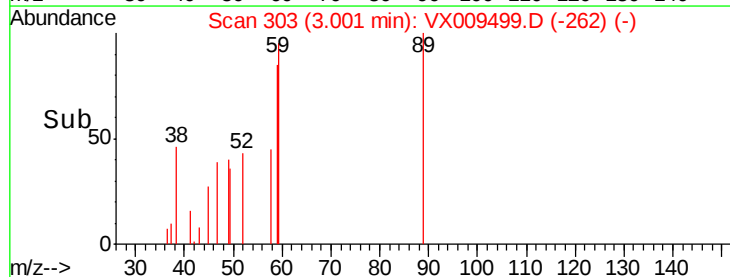
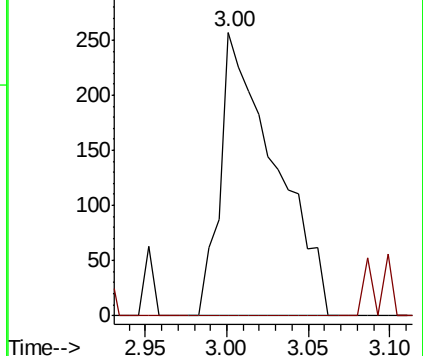
59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 0.619 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

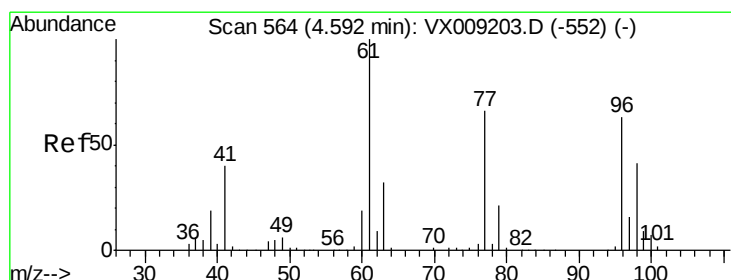
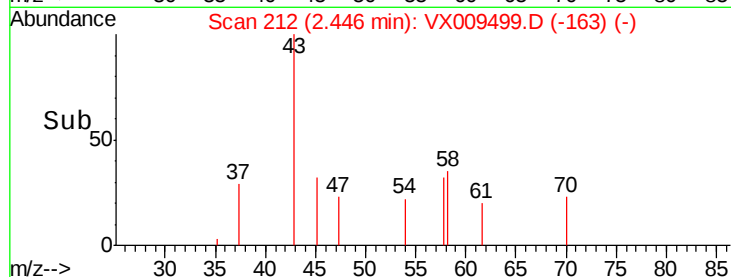
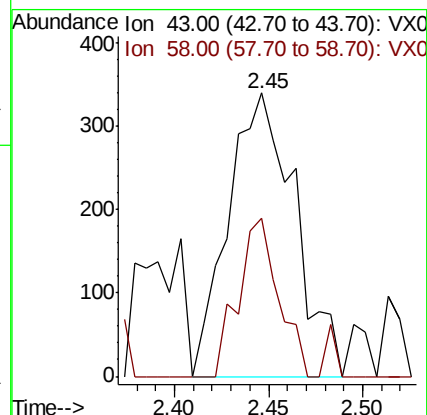
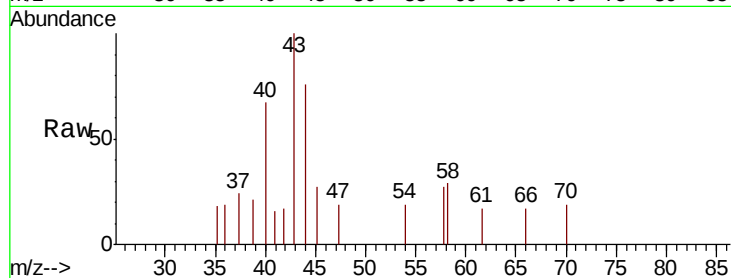
DUP-0522-190508

Tot Ion: 43 Resp: 831

Ion Ratio Lower Upper

43 100

58 56.0 24.9 37.3#



#27

cis-1,2-Dichloroethene

Concen: 6.206 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

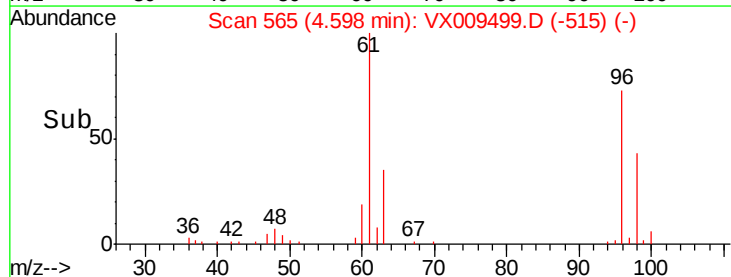
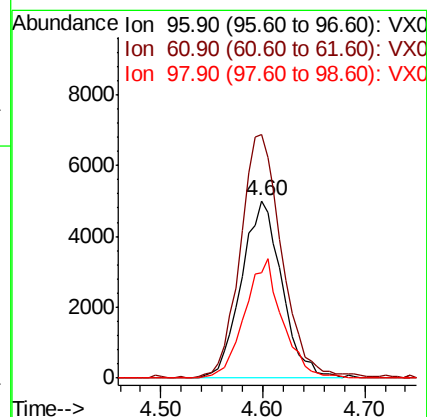
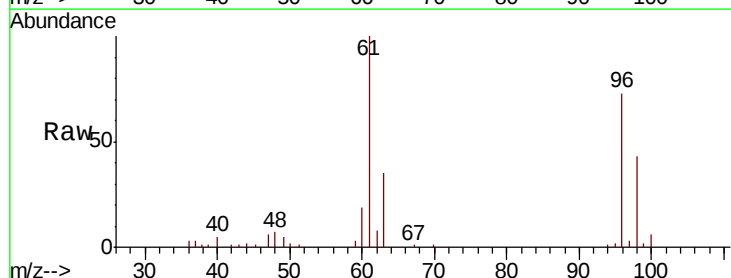
Tgt Ion: 96 Resp: 13801

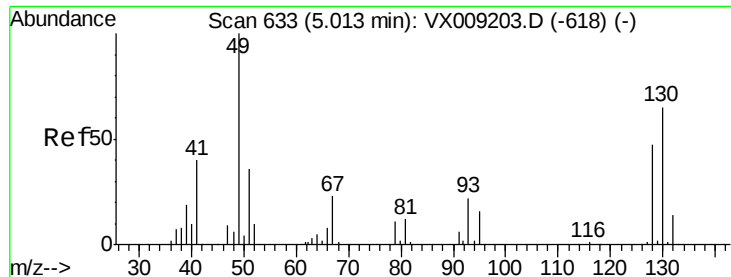
Ion Ratio Lower Upper

96 100

61 141.6 0.0 324.0

98 62.8 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

DUP-0522-190508

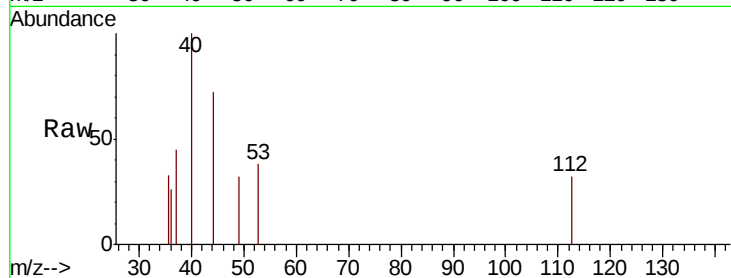
Tot Ion: 49 Resp: 25

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

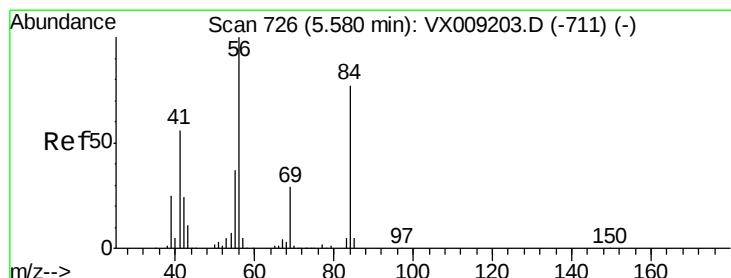
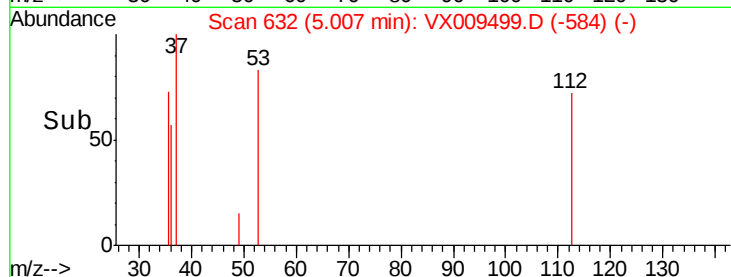
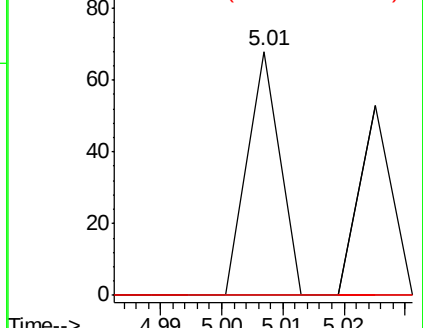
130 0.0 51.2 76.8#



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



#31

Cyclohexane

Concen: 1.048 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

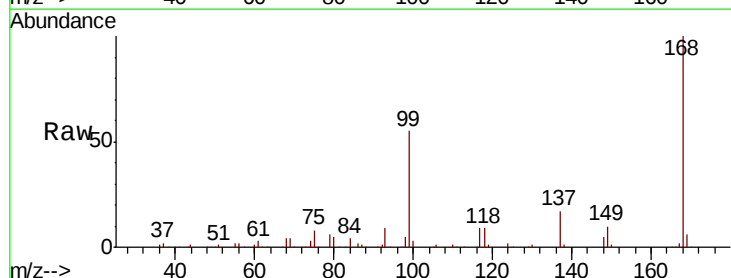
Tgt Ion: 56 Resp: 3874

Ion Ratio Lower Upper

56 100

69 184.0 23.4 35.0#

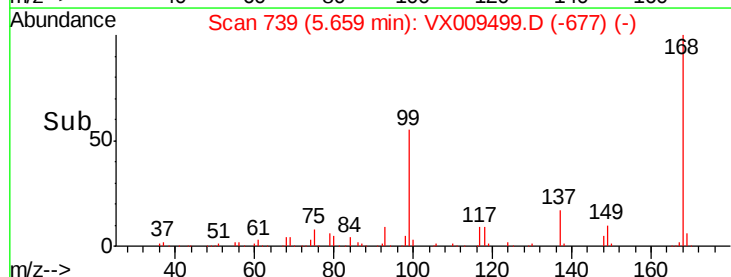
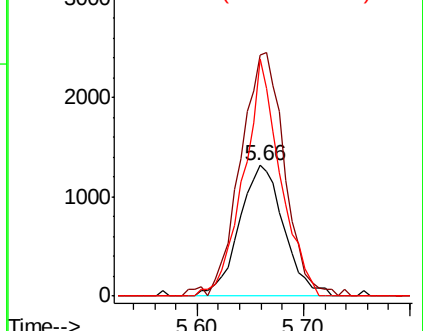
84 181.2 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.914 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

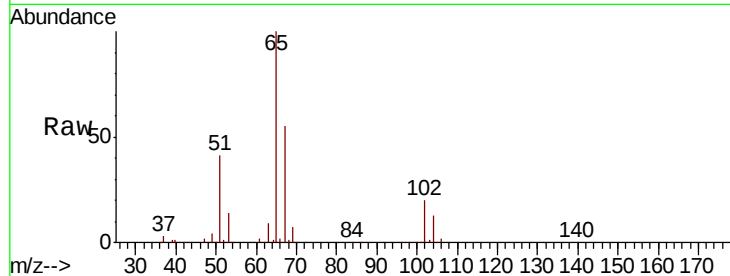
DUP-0522-190508

Tot Ion: 65 Resp: 119749

Ion Ratio Lower Upper

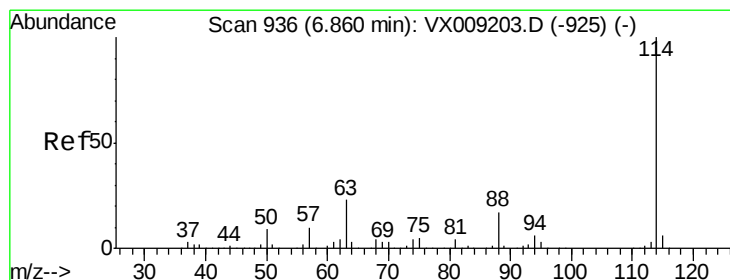
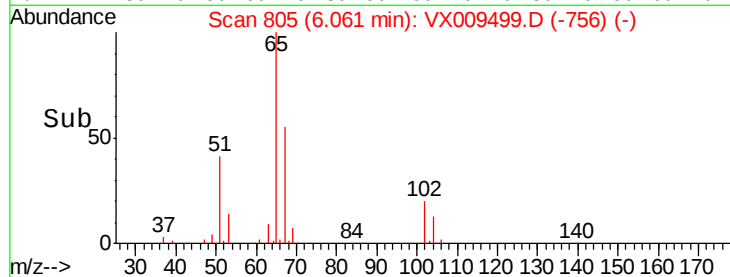
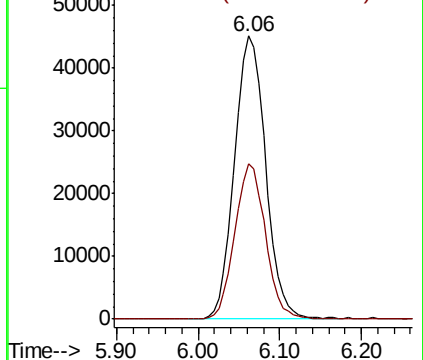
65 100

67 53.8 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

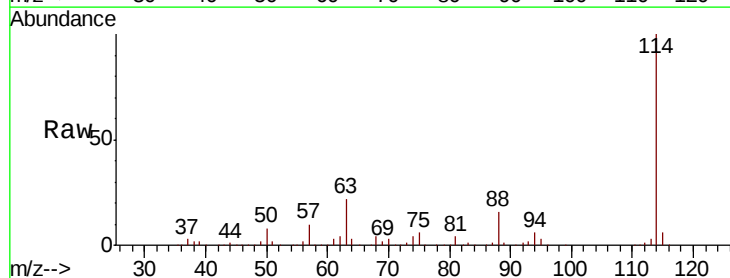
Tgt Ion: 114 Resp: 293436

Ion Ratio Lower Upper

114 100

63 22.0 0.0 45.6

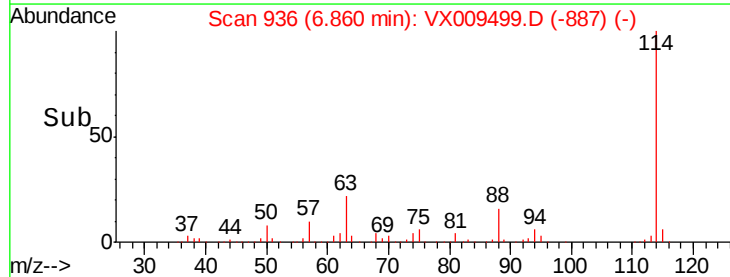
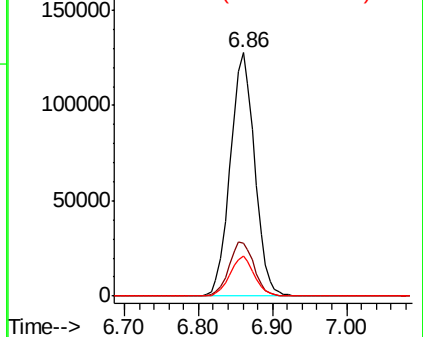
88 16.2 0.0 33.2

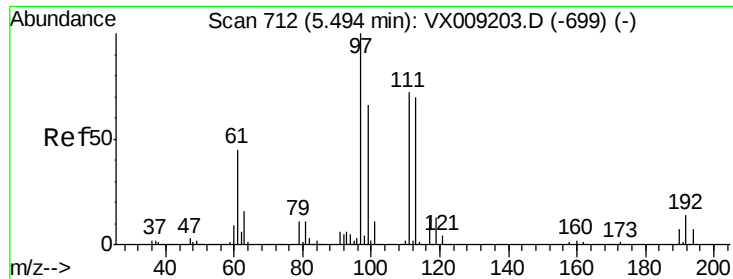


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

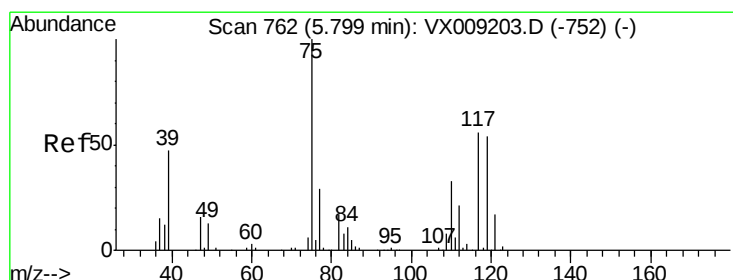
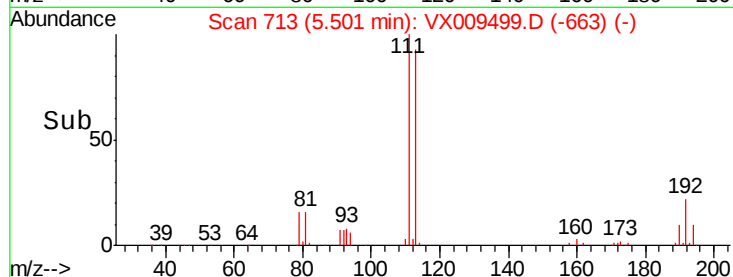
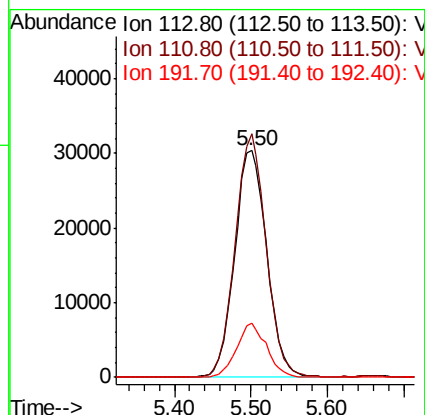
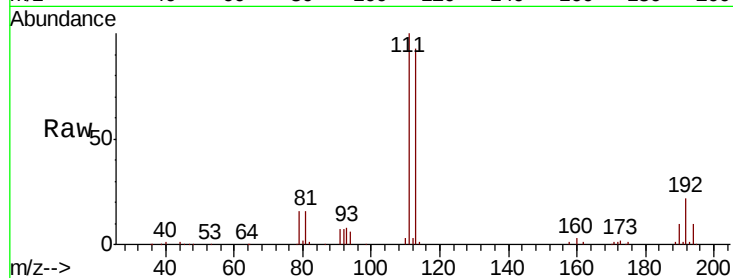




#35
 Dibromofluoromethane
 Concen: 48.026 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009499.D
 Acq: 10 May 2019 22:23

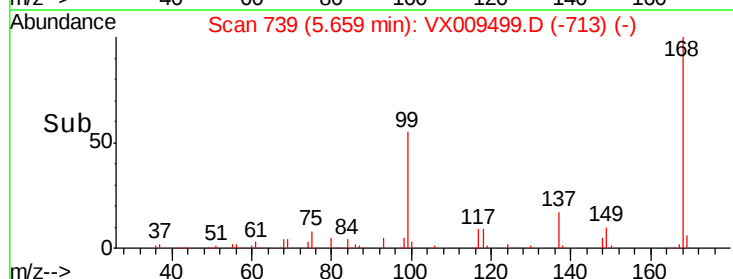
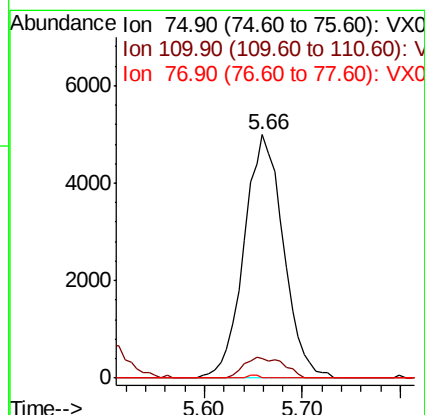
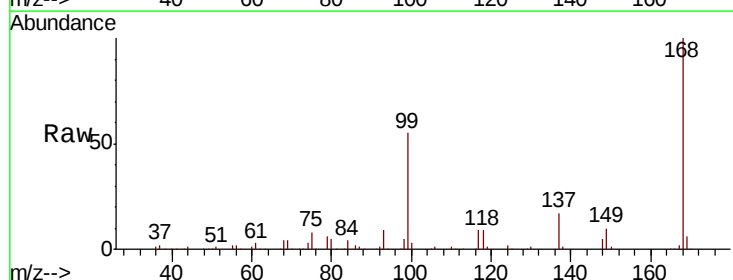
Instrument :
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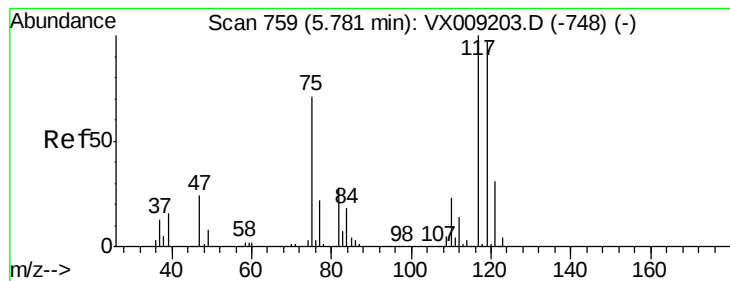
Tot Ion:113 Resp: 88592
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.8 124.2
 192 22.1 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.117 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009499.D
 Acq: 10 May 2019 22:23

Tgt Ion: 75 Resp: 13955
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.9 50.6#
 77 0.4 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.992 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

DUP-0522-190508

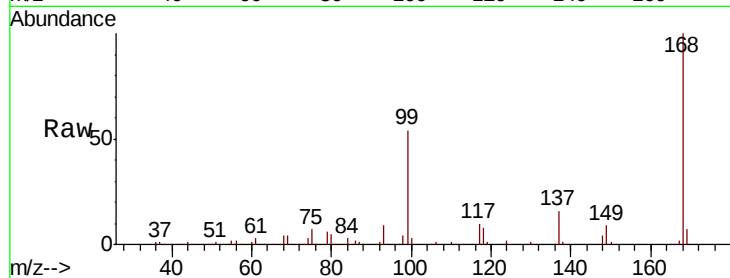
Tot Ion:117 Resp: 17324

Ion Ratio Lower Upper

117 100

119 5.8 77.5 116.3#

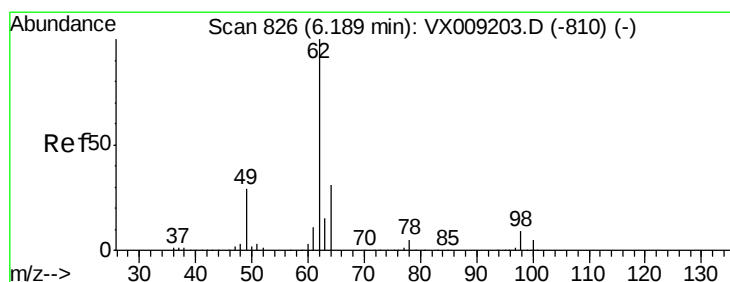
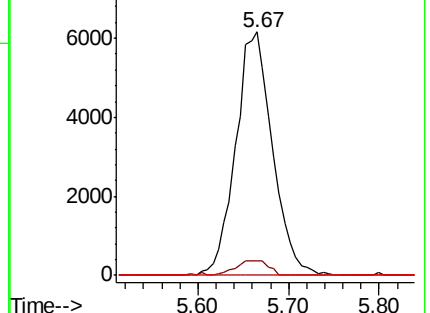
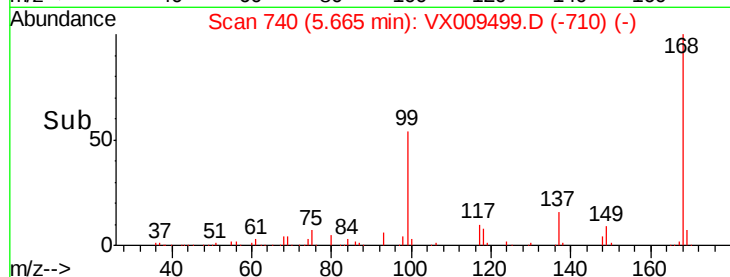
121 0.0 24.7 37.1#



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



#42

1,2-Dichloroethane

Concen: 0.279 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX009499.D

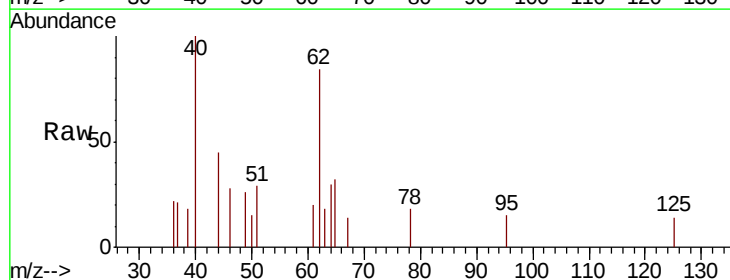
Acq: 10 May 2019 22:23

Tgt Ion: 62 Resp: 844

Ion Ratio Lower Upper

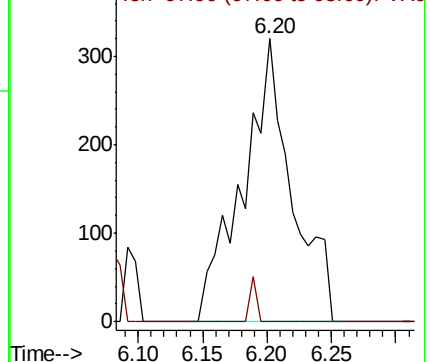
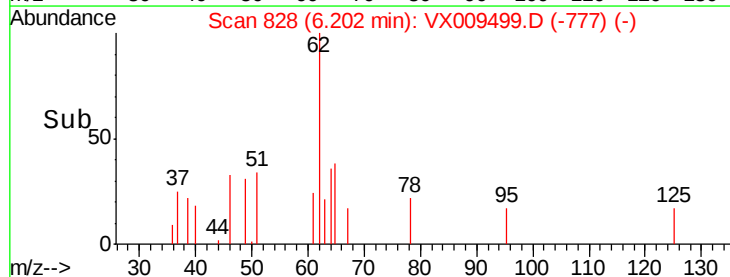
62 100

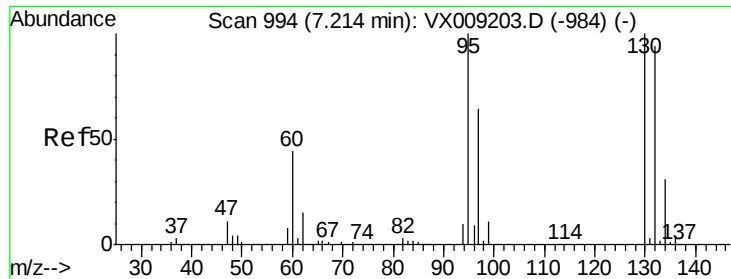
98 2.3 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 6.265 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

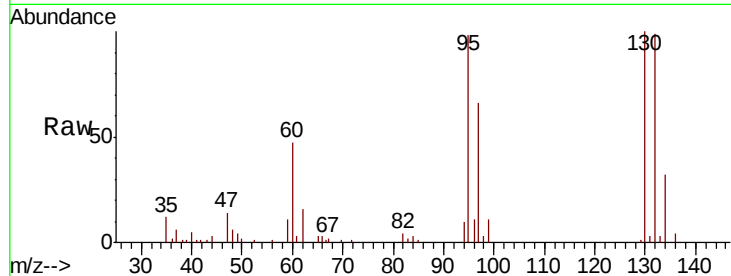
DUP-0522-190508

Tot Ion:130 Resp: 12782

Ion Ratio Lower Upper

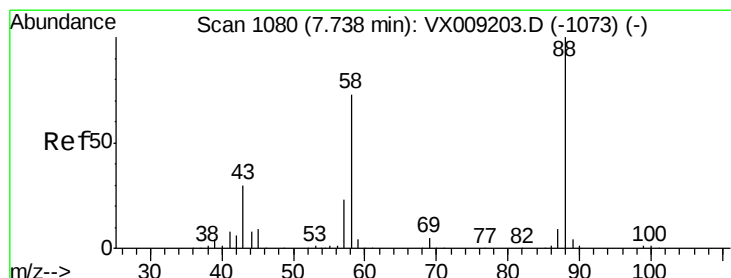
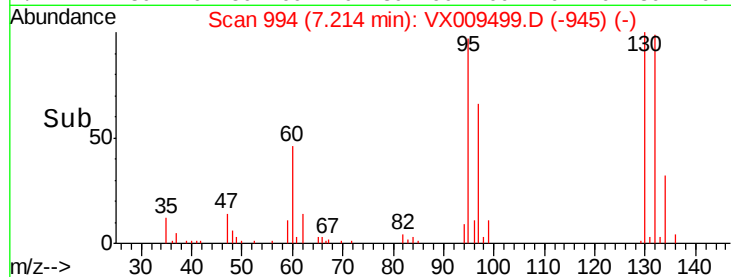
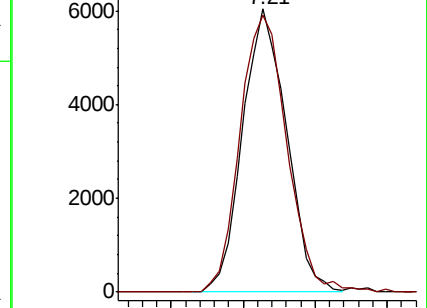
130 100

95 98.0 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.327 ug/l

RT: 7.84 min Scan# 1096

Delta R.T. 0.10 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

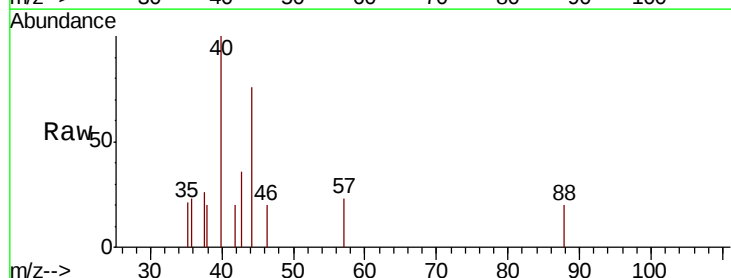
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 375.0 28.6 42.8#

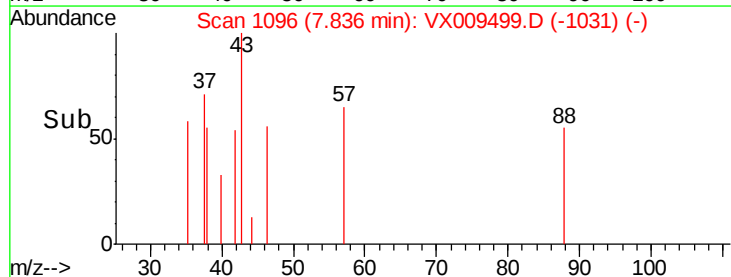
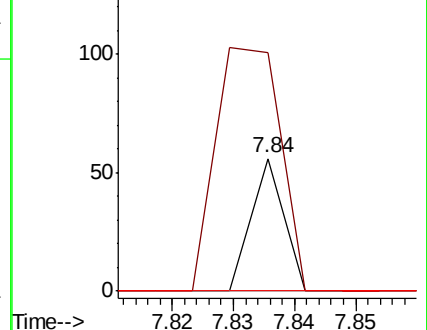
58 0.0 61.7 92.5#

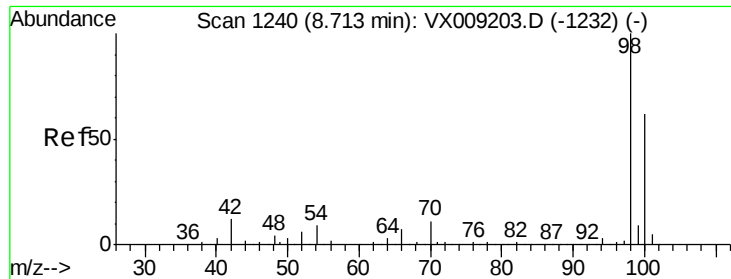


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.039 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

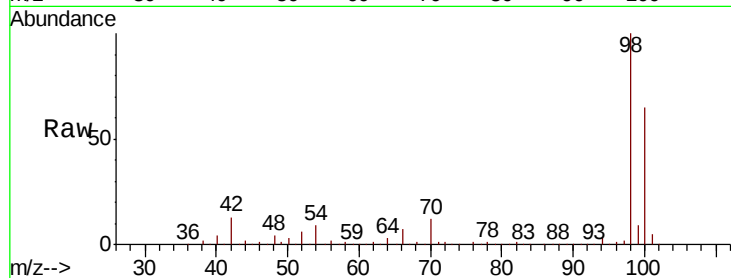
DUP-0522-190508

Tot Ion: 98 Resp: 365209

Ion Ratio Lower Upper

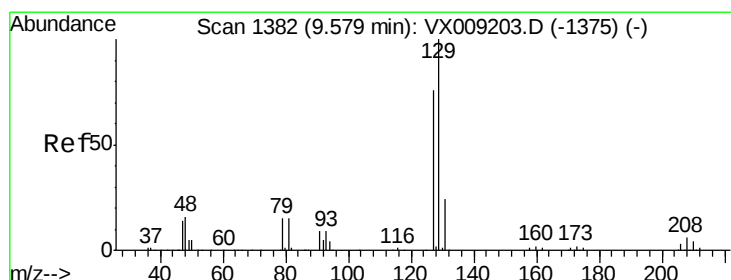
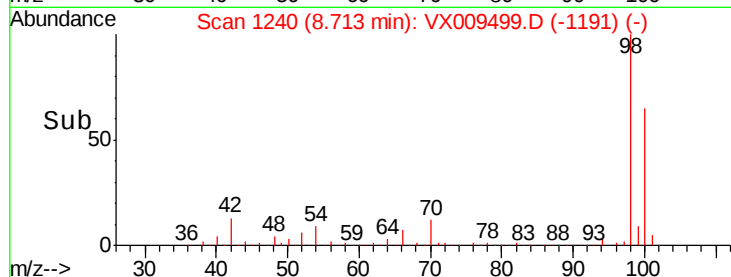
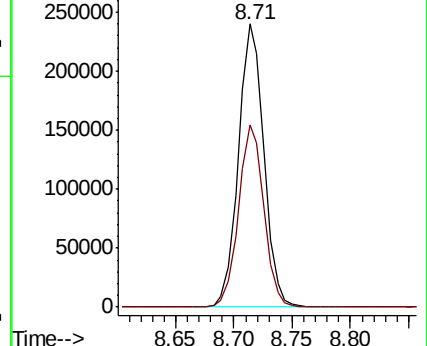
98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 10.353 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009499.D

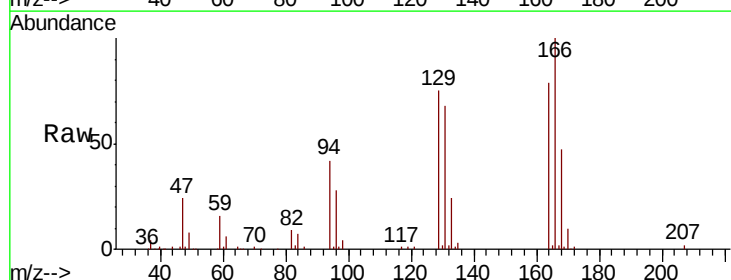
Acq: 10 May 2019 22:23

Tgt Ion:129 Resp: 21162

Ion Ratio Lower Upper

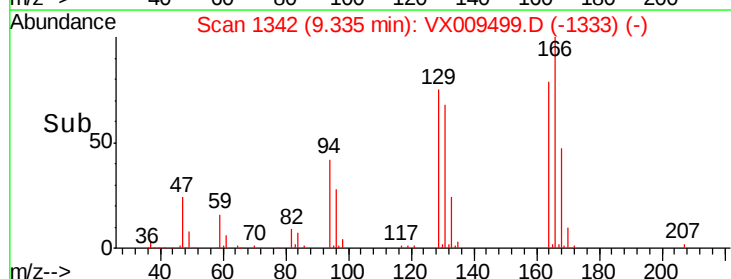
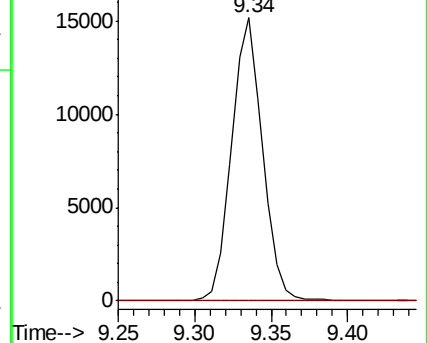
129 100

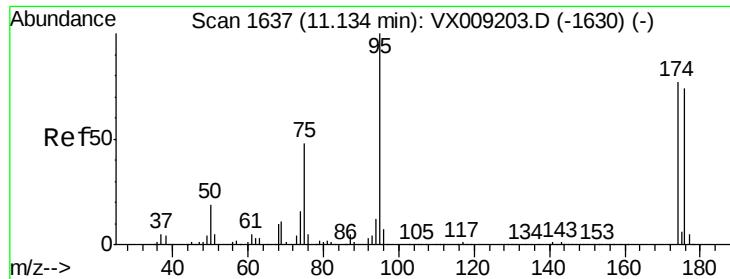
127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

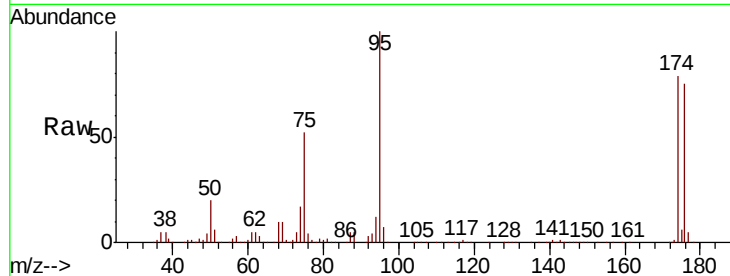




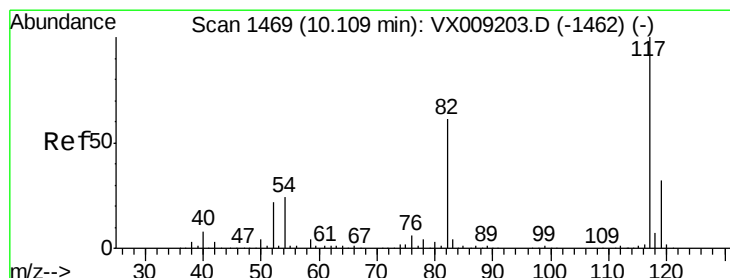
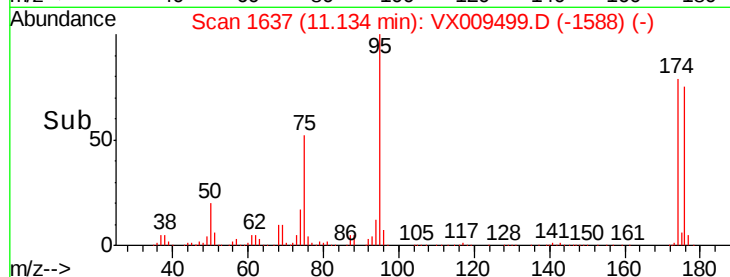
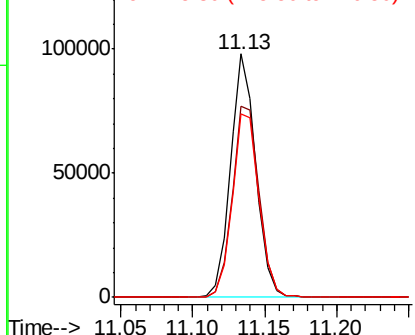
#62
4-Bromofluorobenzene
Concen: 44.586 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009499.D
Acq: 10 May 2019 22:23

Instrument :
MSVOA_X
ClientSampleId :
DUP-0522-190508

Tot Ion: 95 Resp: 120652
Ion Ratio Lower Upper
95 100
174 83.6 0.0 161.6
176 80.0 0.0 159.2

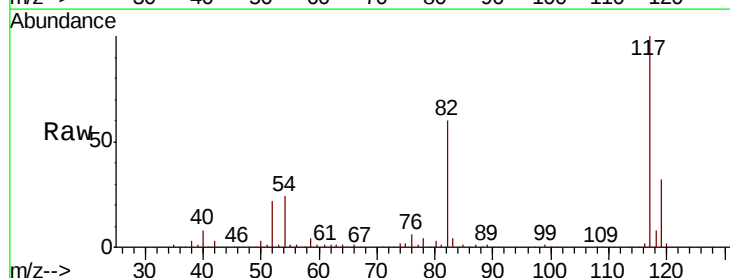


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

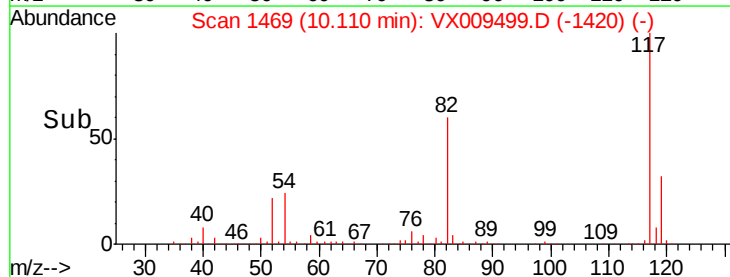
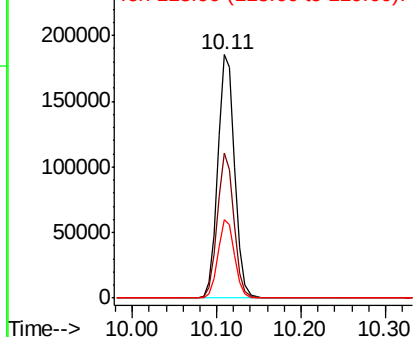


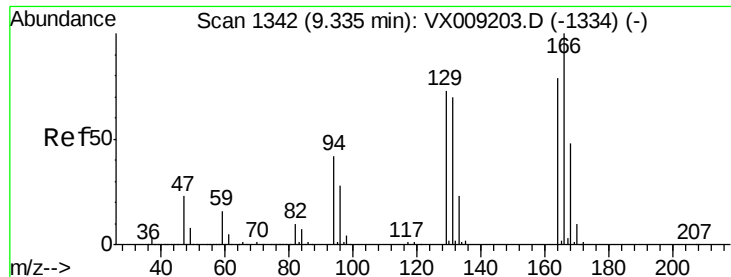
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009499.D
Acq: 10 May 2019 22:23

Tgt Ion: 117 Resp: 256775
Ion Ratio Lower Upper
117 100
82 59.7 48.8 73.2
119 32.1 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





#64

Tetrachloroethene

Concen: 12.655 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

DUP-0522-190508

Tot Ion:164 Resp: 22290

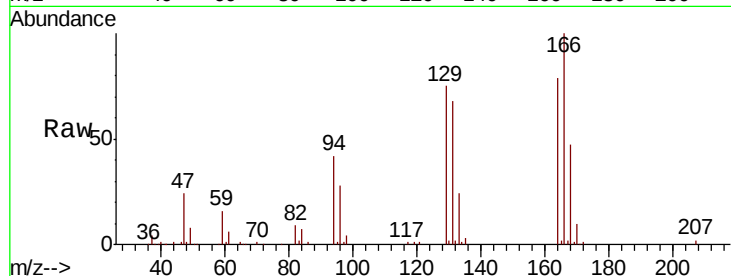
Ion Ratio Lower Upper

164 100

166 126.5 101.2 151.8

129 95.5 74.3 111.5

131 86.2 71.0 106.6



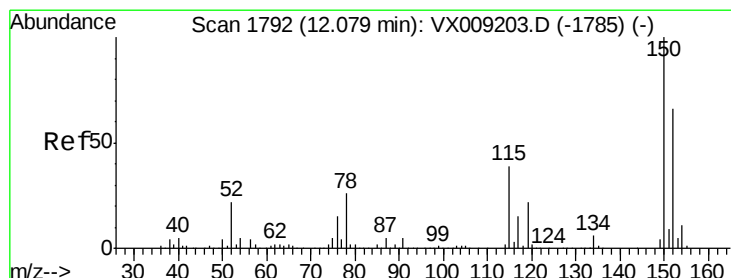
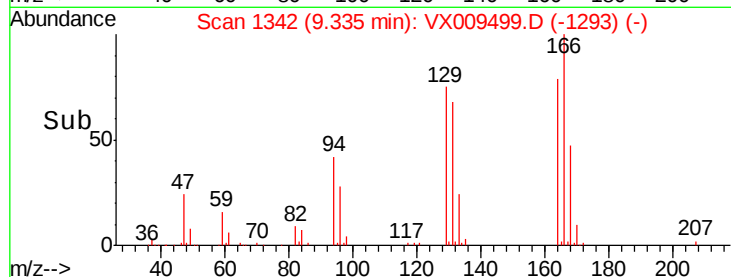
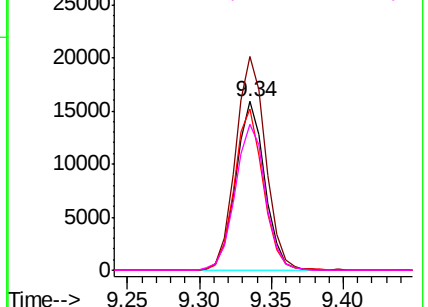
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX009499.D

Acq: 10 May 2019 22:23

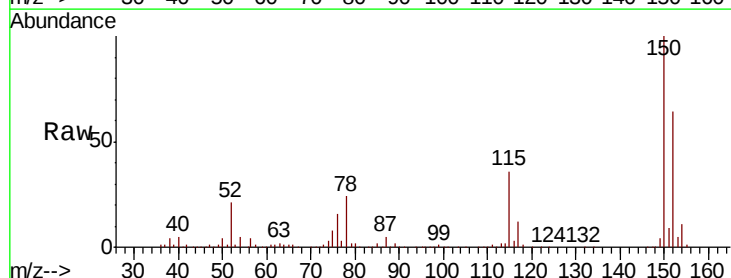
Tgt Ion:152 Resp: 110682

Ion Ratio Lower Upper

152 100

115 58.1 41.2 123.6

150 155.8 0.0 346.4

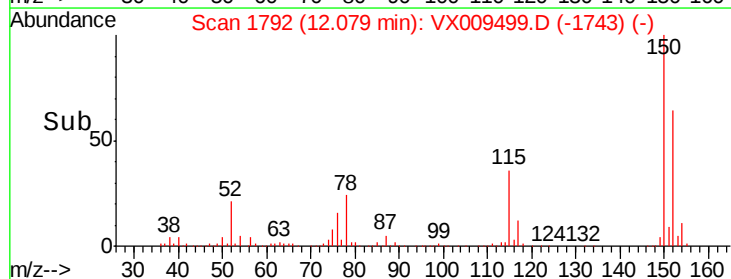
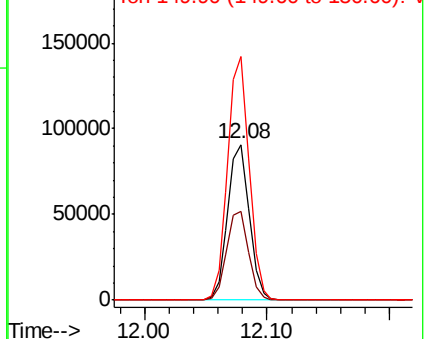


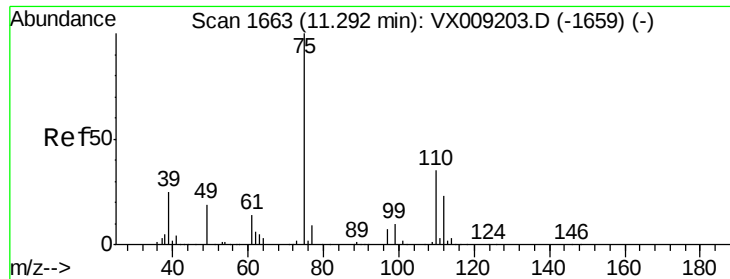
Abundance

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: 24.075 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

Instrument :

MSVOA_X

ClientSampleId :

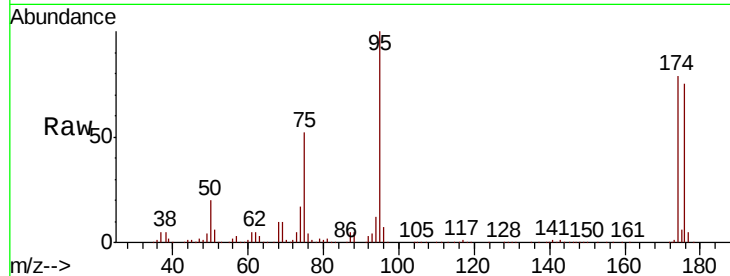
DUP-0522-190508

Tot Ion: 75 Resp: 61811

Ion Ratio Lower Upper

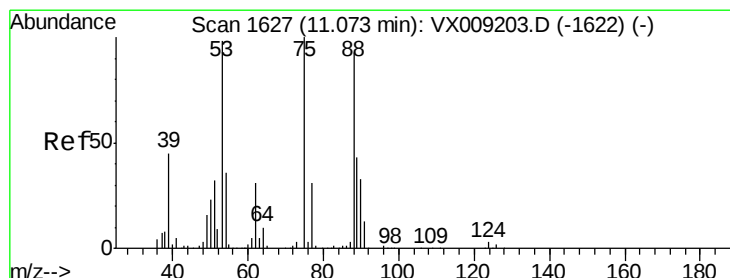
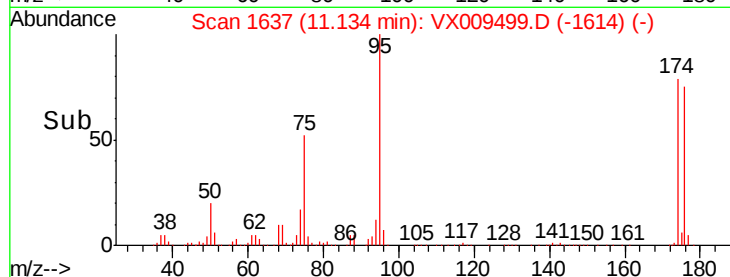
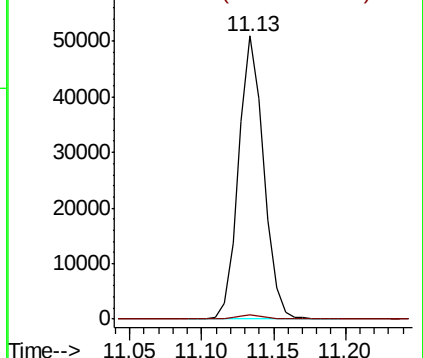
75 100

77 1.5 22.1 66.1#



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: 61.600 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009499.D

Acq: 10 May 2019 22:23

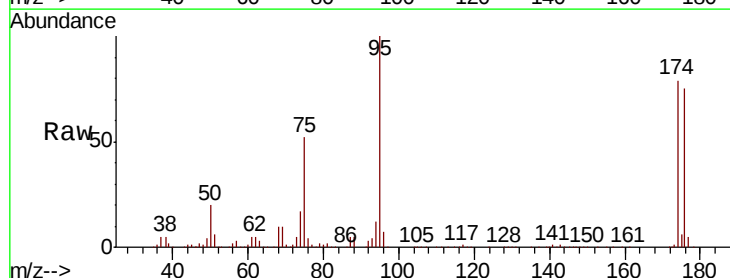
Tgt Ion: 75 Resp: 61811

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.1 34.7 52.1#



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

