

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX093019\
 Data File : VX012709.D
 Acq On : 30 Sep 2019 16:43
 Operator : JC/SP
 Sample : K5081-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ123I1-20190926

Quant Time: Oct 01 03:47:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	165460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	286417	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	242402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	92934	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	115694	48.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.04%	
35) Dibromofluoromethane	5.49	113	85155	49.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.84%	
50) Toluene-d8	8.71	98	336166	51.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	11.14	95	115312	44.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.28%	

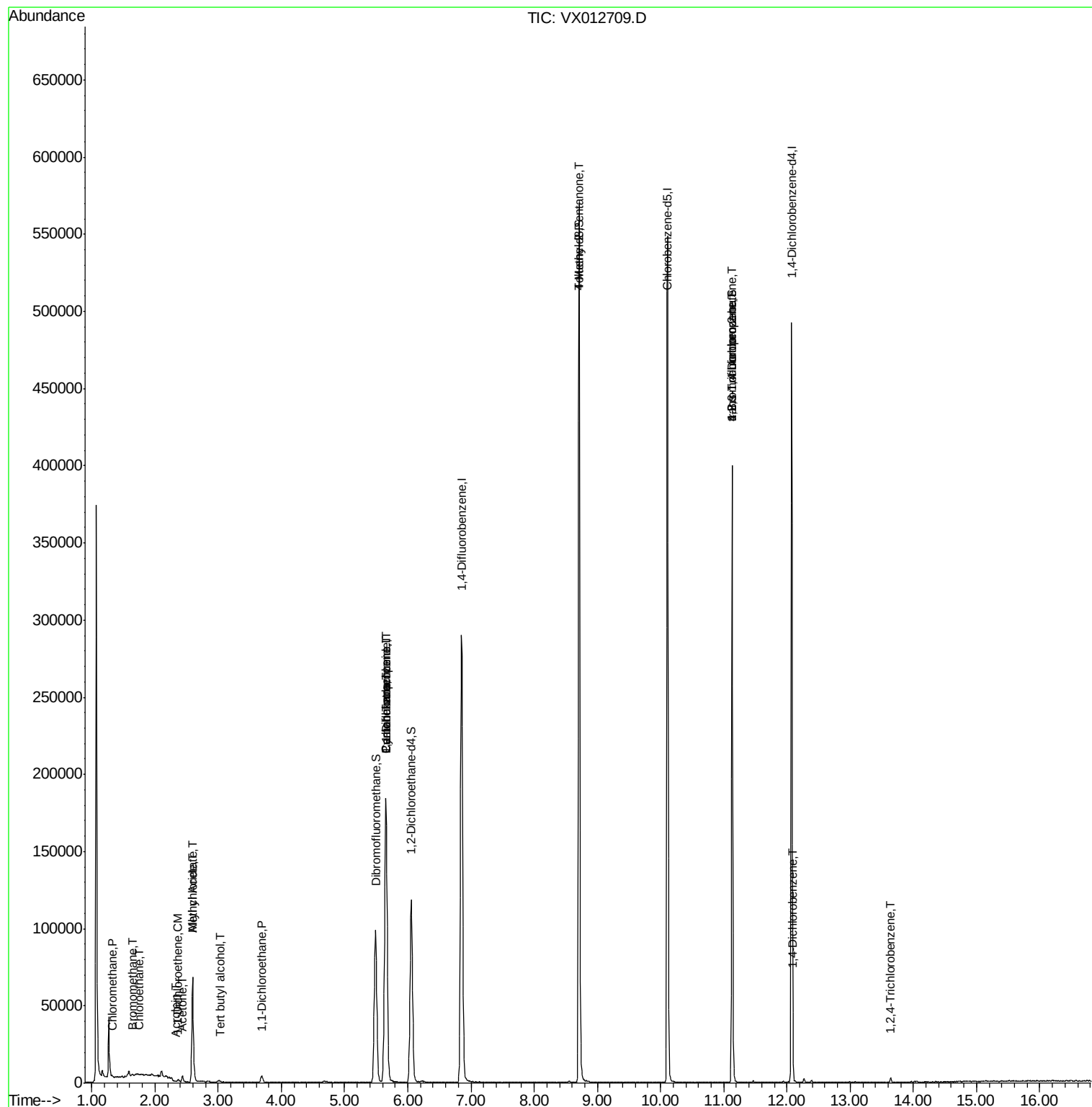
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	429	0.201	ug/l #	72
5) Bromomethane	1.65	94	286	0.342	ug/l #	4
6) Chloroethane	1.75	64	376	0.263	ug/l	97
11) Tert butyl alcohol	3.03	59	1284	2.133	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	498	0.280	ug/l	85
13) Acrolein	2.33	56	25	10.304	ug/l #	15
14) Allyl chloride	2.59	41	6750	1.912	ug/l #	66
16) Acetone	2.44	43	4068	3.188	ug/l	92
18) Methyl Acetate	2.59	43	17099	5.690	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	4753	1.282	ug/l #	95
31) Cyclohexane	5.65	56	4073	1.214	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14082	5.101	ug/l #	52
38) Carbon Tetrachloride	5.65	117	17851	6.365	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	1532	0.460	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	59637	24.259	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	59637	69.521	ug/l #	8
88) 1,4-Dichlorobenzene	12.10	146	1027	0.330	ug/l #	44
93) 1,2,4-Trichlorobenzene	13.64	180	692	0.368	ug/l	89

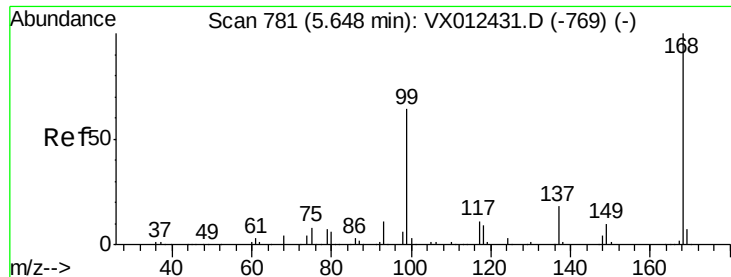
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

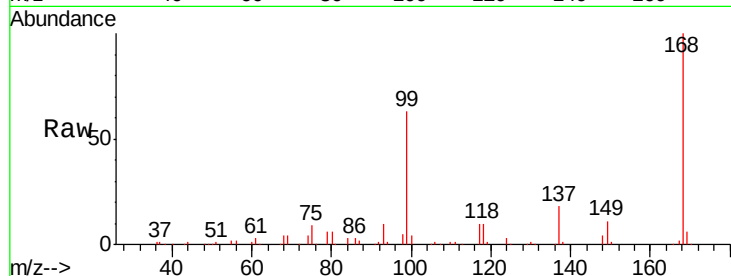
SA-PZ12311-20190926

Tgt Ion:168 Resp: 165460

Ion Ratio Lower Upper

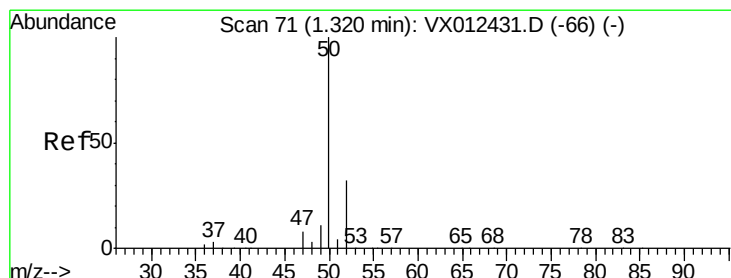
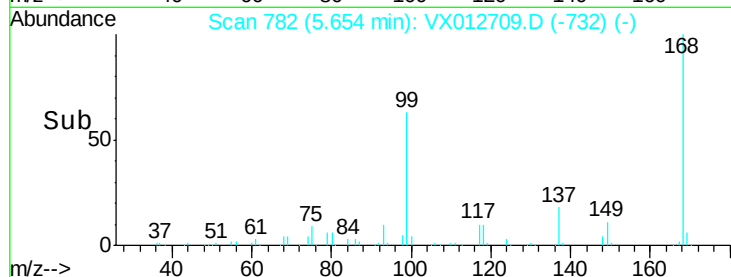
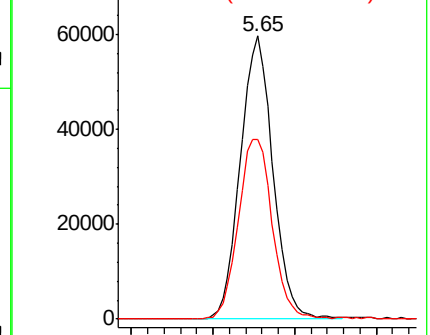
168 100

99 63.3 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012709.D

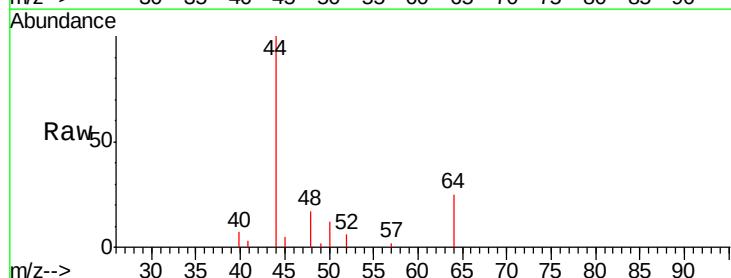
Acq: 30 Sep 2019 16:43

Tgt Ion: 50 Resp: 429

Ion Ratio Lower Upper

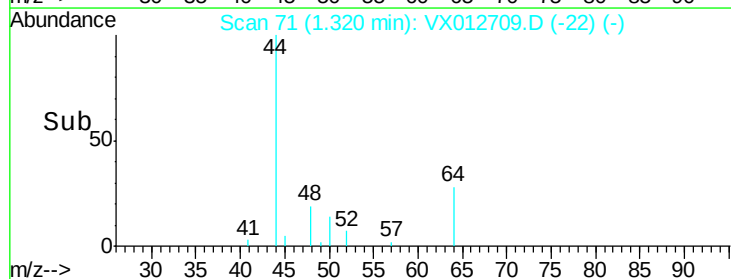
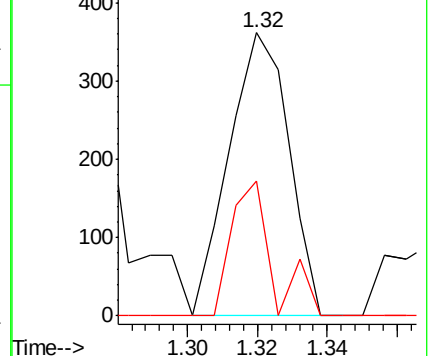
50 100

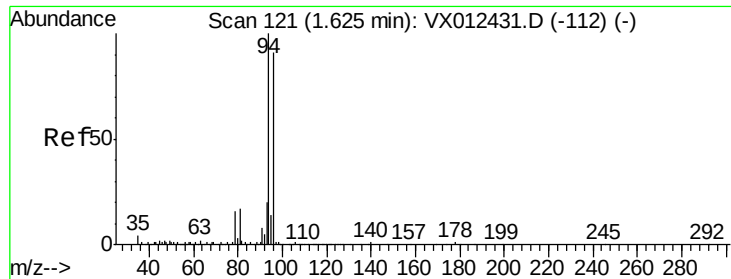
52 47.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.342 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

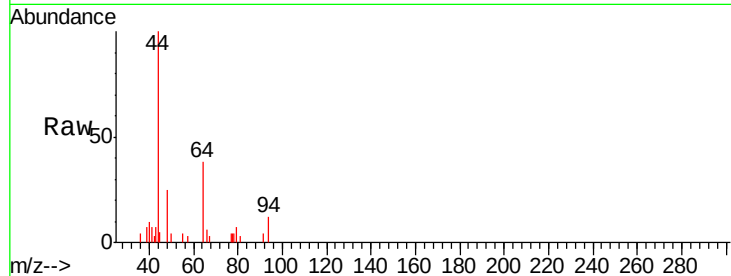
SA-PZ12311-20190926

Tgt Ion: 94 Resp: 286

Ion Ratio Lower Upper

94 100

96 0.0 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

100

50

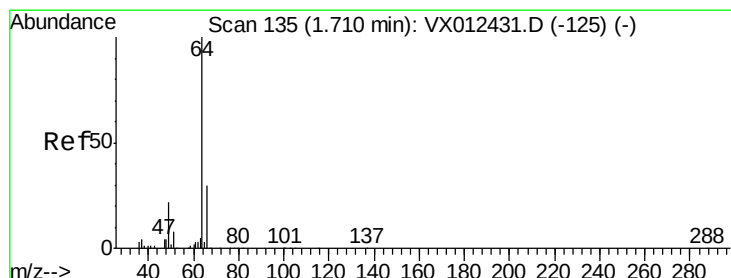
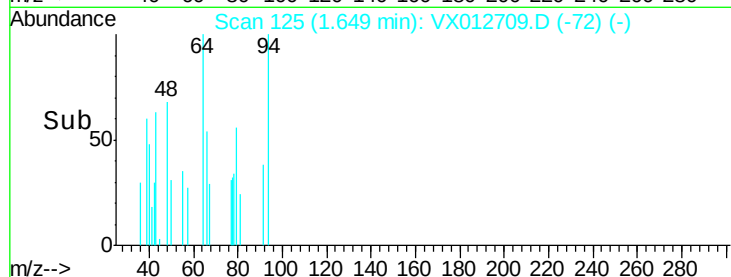
0

Time-->

1.60

1.65

Time-->



#6

Chloroethane

Concen: 0.263 ug/l

RT: 1.75 min Scan# 142

Delta R.T. 0.04 min

Lab File: VX012709.D

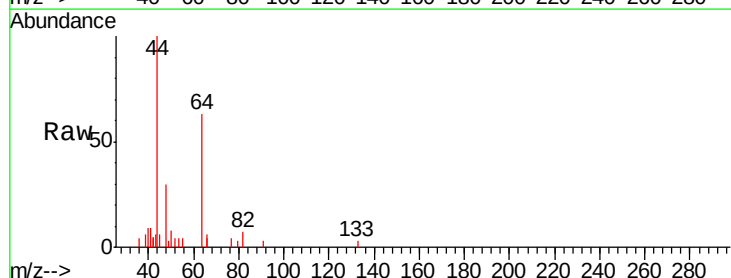
Acq: 30 Sep 2019 16:43

Tgt Ion: 64 Resp: 376

Ion Ratio Lower Upper

64 100

66 31.4 24.0 36.0



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

1000

500

0

Time-->

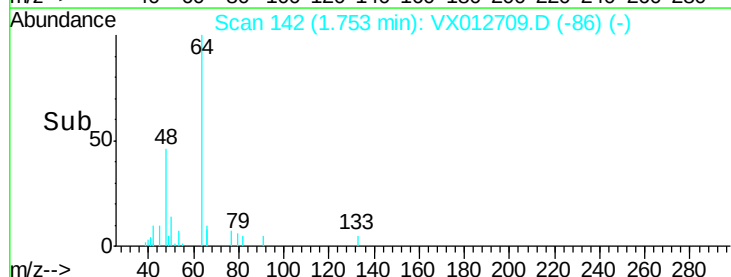
1.73

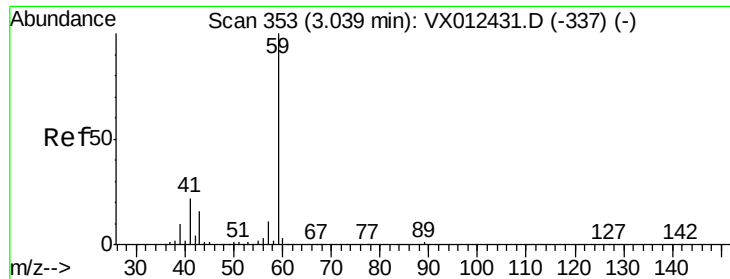
1.74

1.75

1.76

Time-->

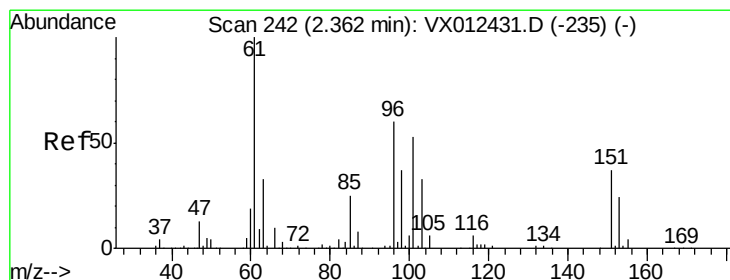
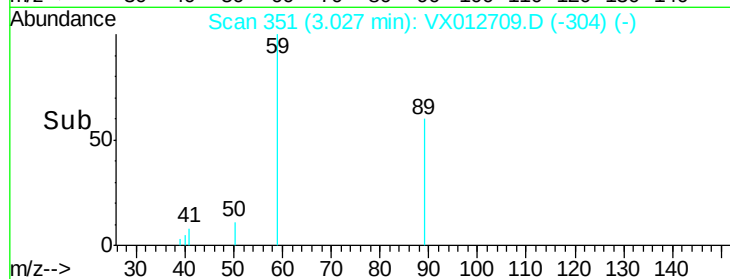
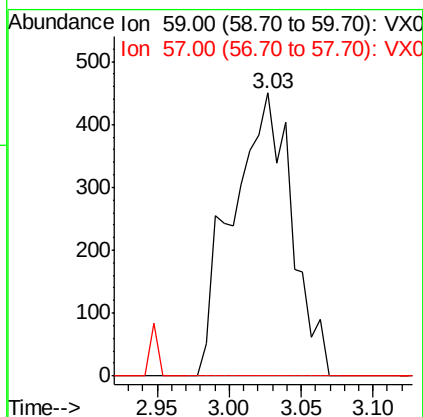
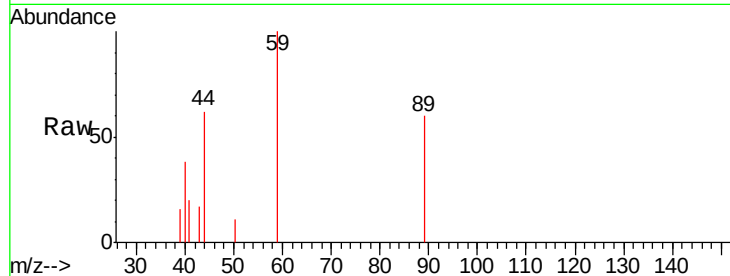




#11
Tert butyl alcohol
Concen: 2.133 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012709.D
Acq: 30 Sep 2019 16:43

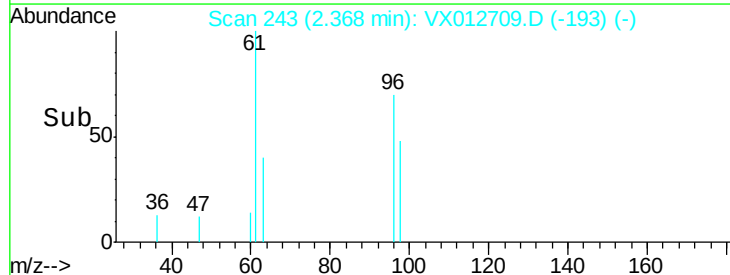
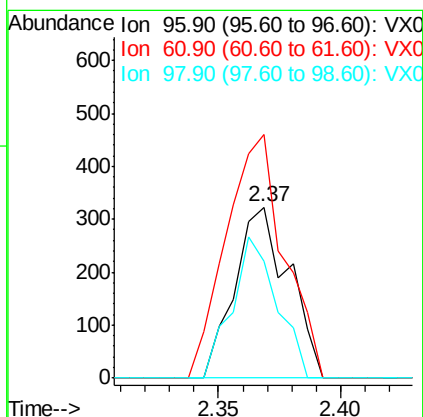
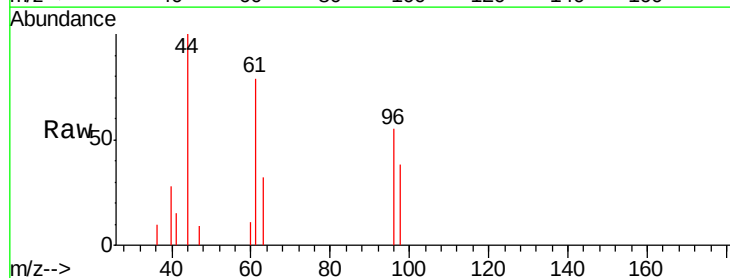
Instrument :
MSVOA_X
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SA-PZ123I1-20190926

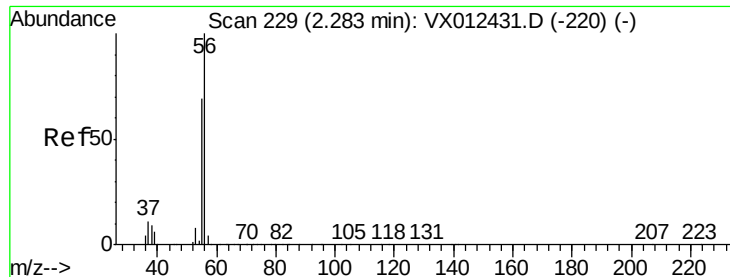
Tgt Ion: 59 Resp: 1284
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.280 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX012709.D
Acq: 30 Sep 2019 16:43

Tgt Ion: 96 Resp: 498
Ion Ratio Lower Upper
96 100
61 142.4 133.8 200.6
98 68.1 49.9 74.9





#13

Acrolein

Concen: 10.304 ug/l

RT: 2.33 min Scan# 236

Delta R.T. 0.04 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

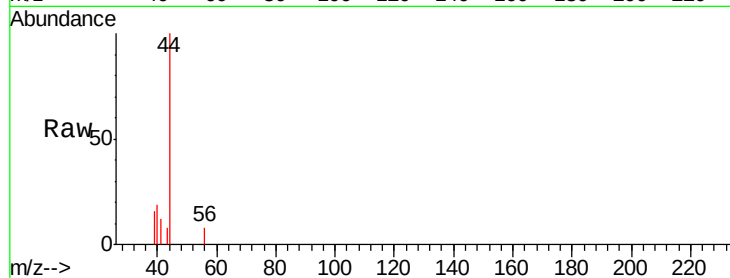
SA-PZ12311-20190926

Tgt Ion: 56 Resp: 25

Ion Ratio Lower Upper

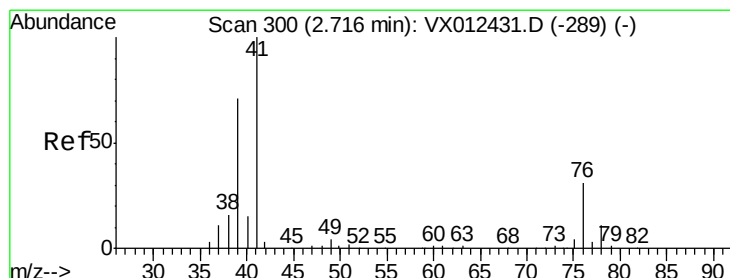
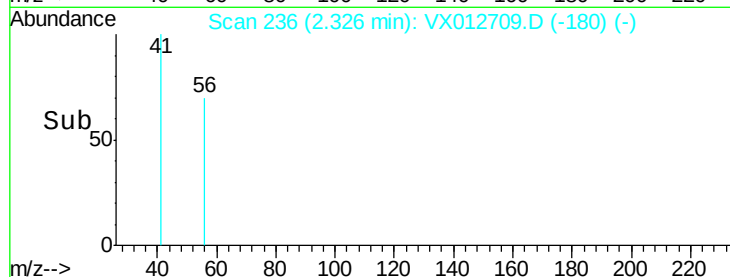
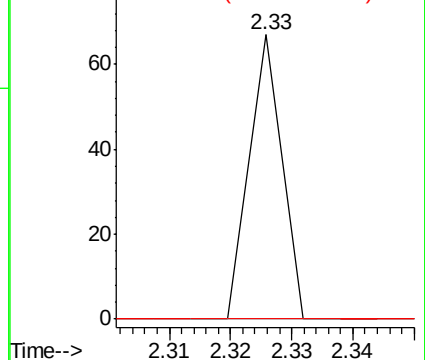
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 1.912 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

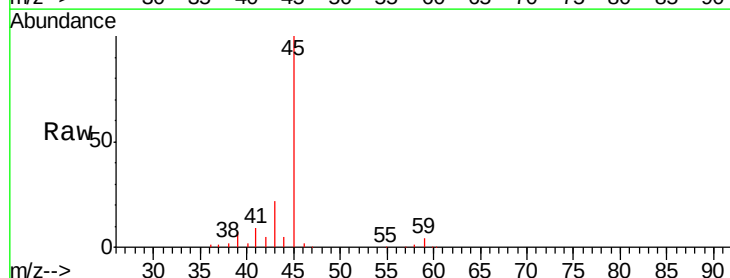
Tgt Ion: 41 Resp: 6750

Ion Ratio Lower Upper

41 100

39 83.5 51.3 76.9#

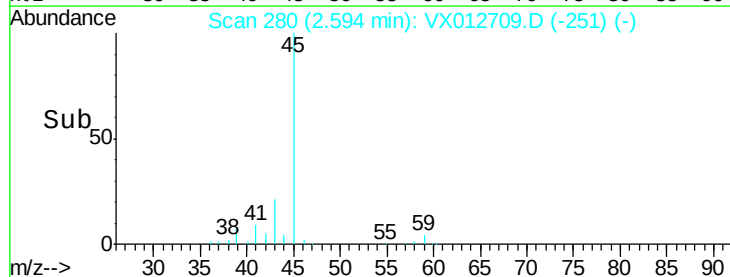
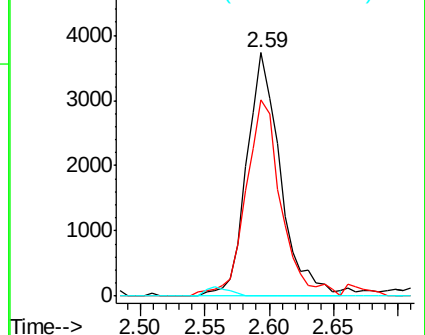
76 0.0 22.6 33.8#

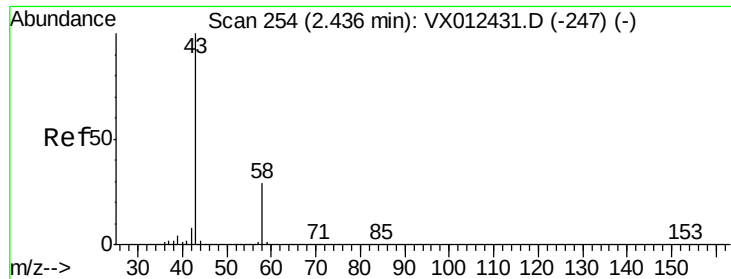


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 3.188 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

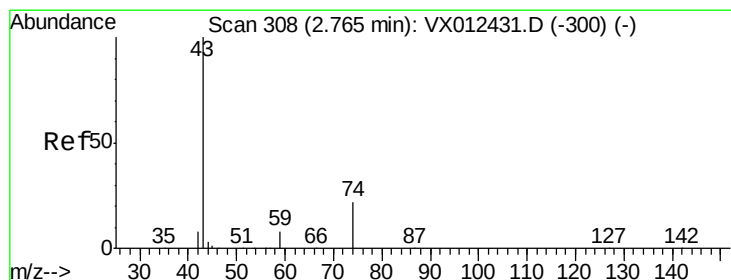
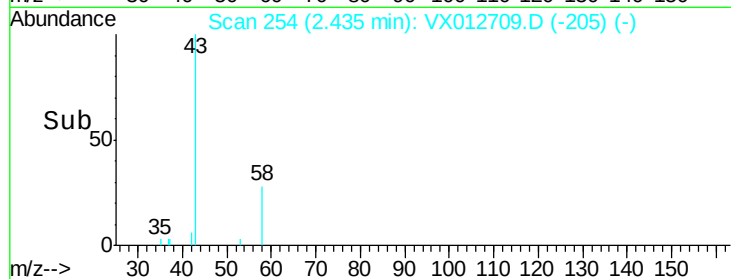
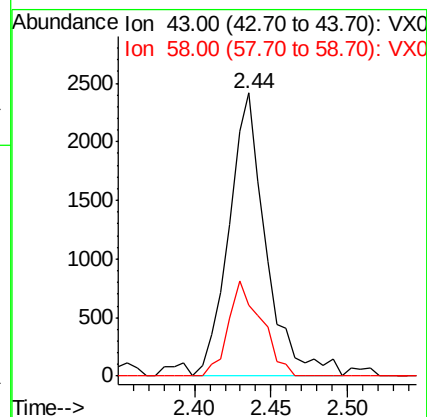
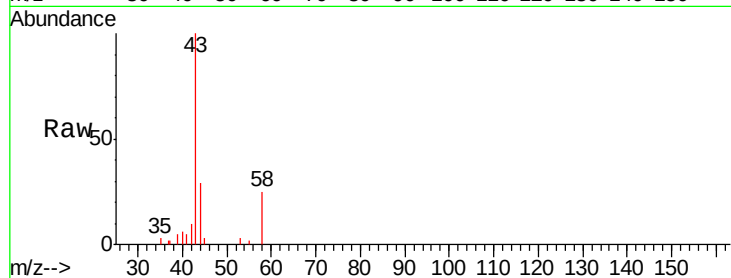
SA-PZ12311-20190926

Tgt Ion: 43 Resp: 4068

Ion Ratio Lower Upper

43 100

58 25.0 23.3 34.9



#18

Methyl Acetate

Concen: 5.690 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012709.D

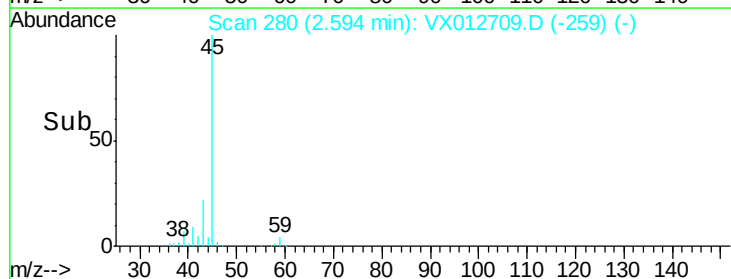
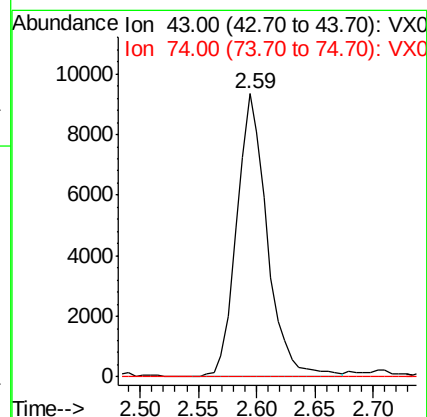
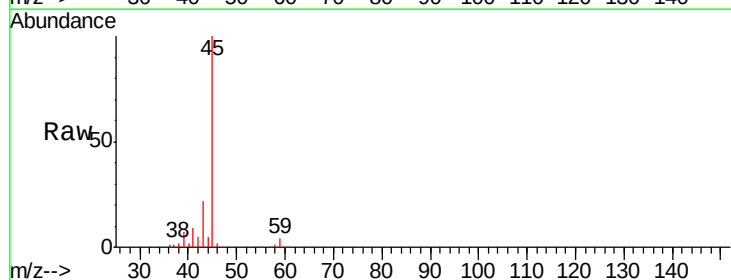
Acq: 30 Sep 2019 16:43

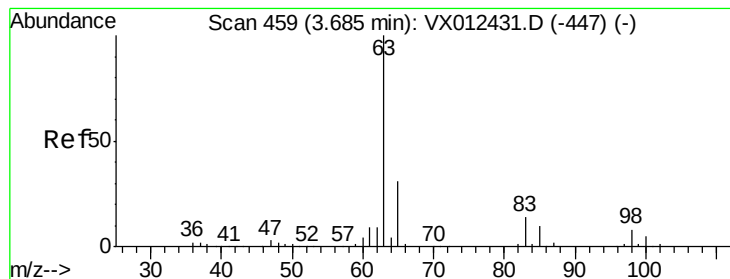
Tgt Ion: 43 Resp: 17099

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#24

1,1-Dichloroethane

Concen: 1.282 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ12311-20190926

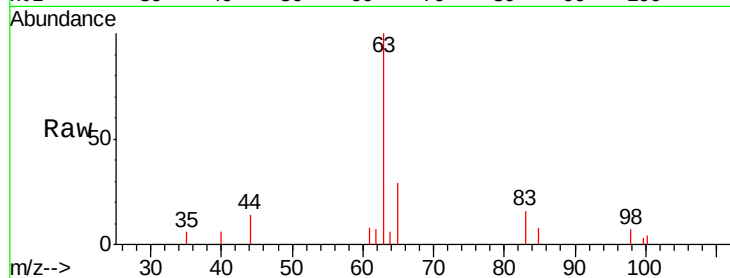
Tgt Ion: 63 Resp: 4753

Ion Ratio Lower Upper

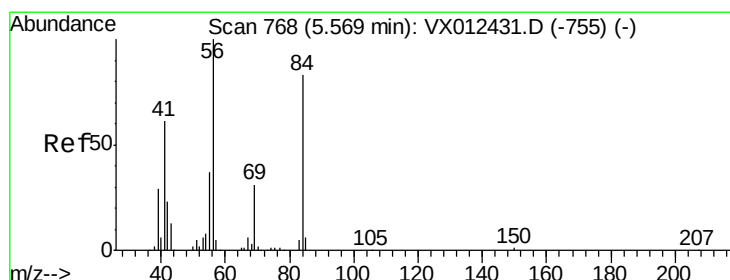
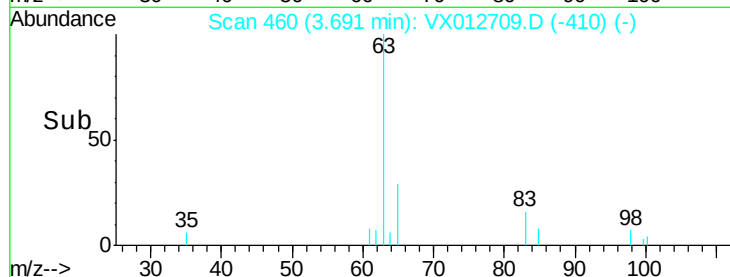
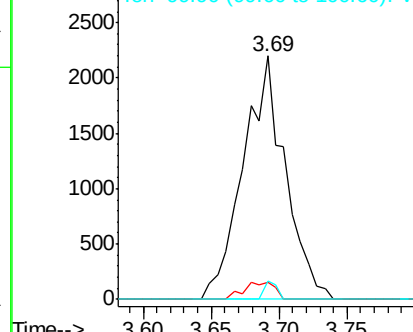
63 100

98 7.0 3.9 11.7

100 7.3 2.3 6.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#31

Cyclohexane

Concen: 1.214 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

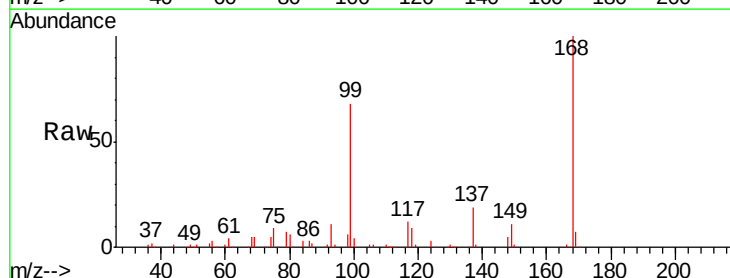
Tgt Ion: 56 Resp: 4073

Ion Ratio Lower Upper

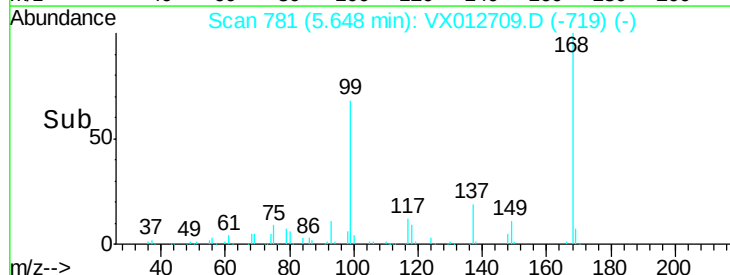
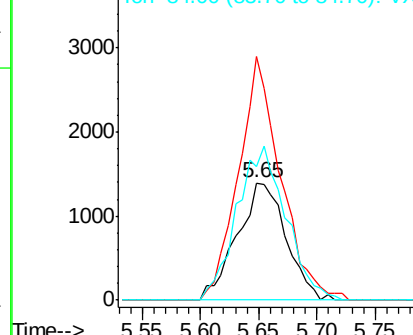
56 100

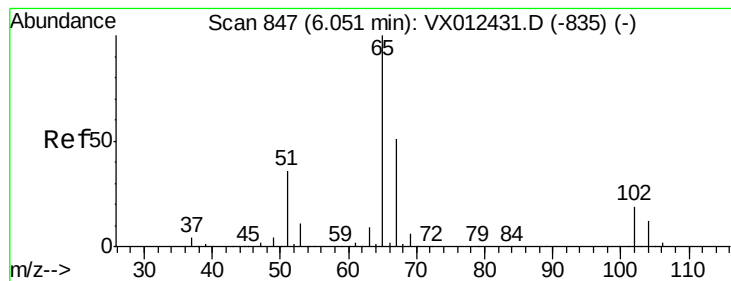
69 208.0 25.0 37.6#

84 113.9 66.4 99.6#



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: 48.017 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

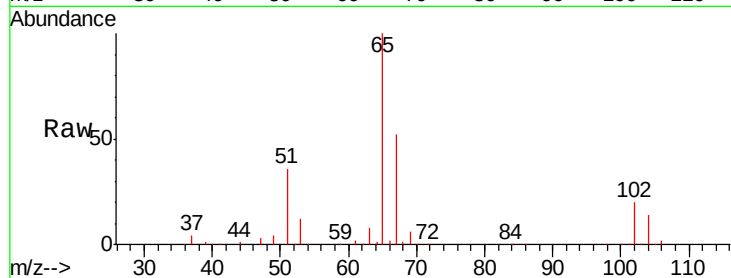
SA-PZ12311-20190926

Tgt Ion: 65 Resp: 115694

Ion Ratio Lower Upper

65 100

67 52.3 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

40000

30000

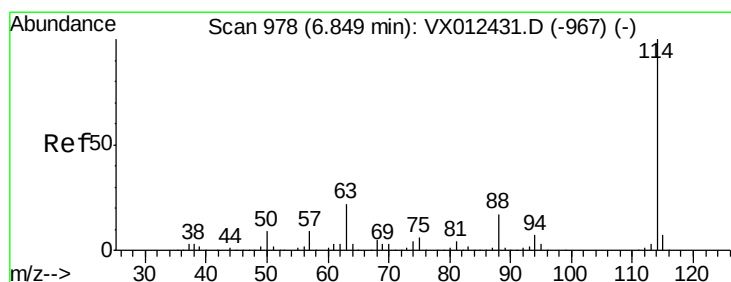
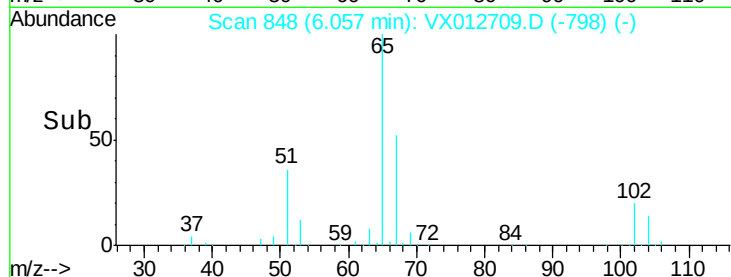
20000

10000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

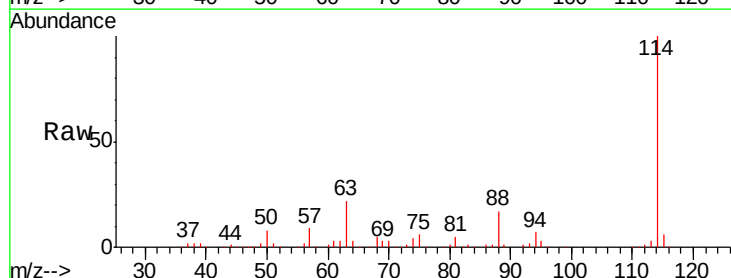
Tgt Ion: 114 Resp: 286417

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.2

88 17.0 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

150000

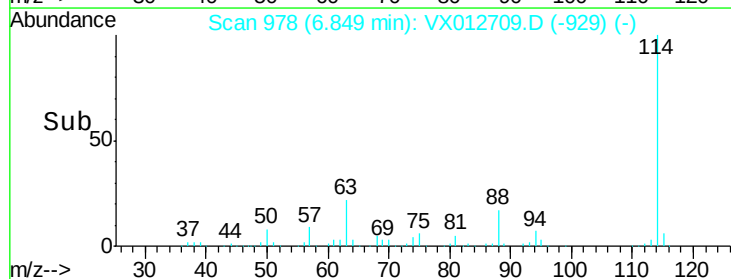
100000

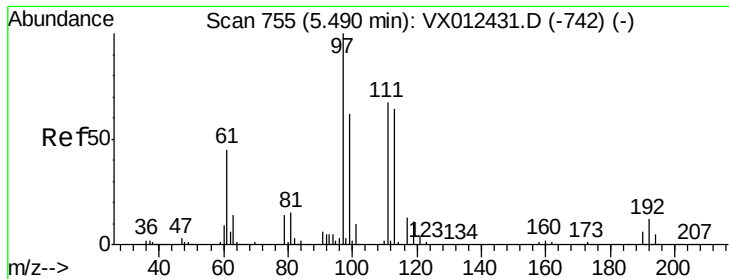
50000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 49.923 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ12311-20190926

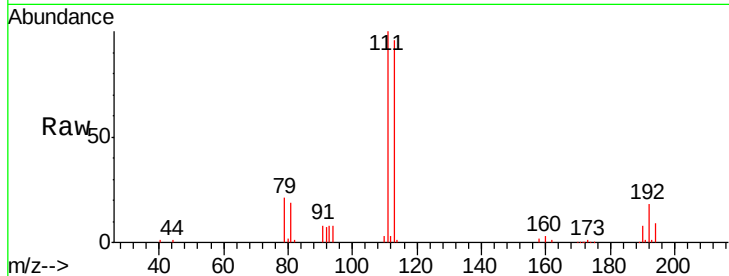
Tgt Ion:113 Resp: 85155

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

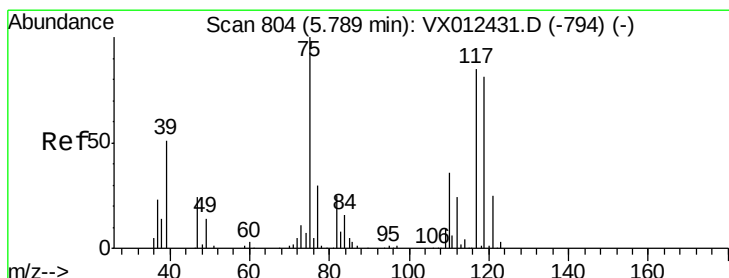
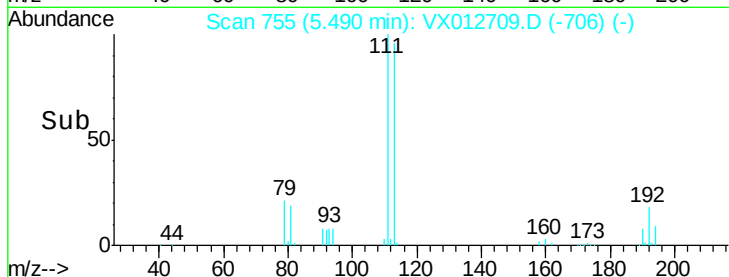
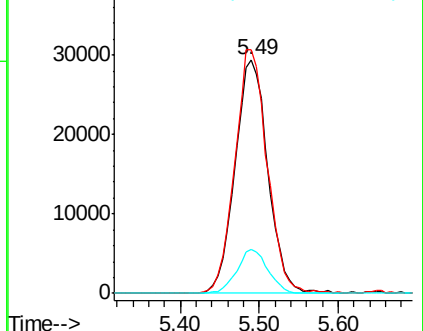
192 17.8 14.4 21.6



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: 5.101 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

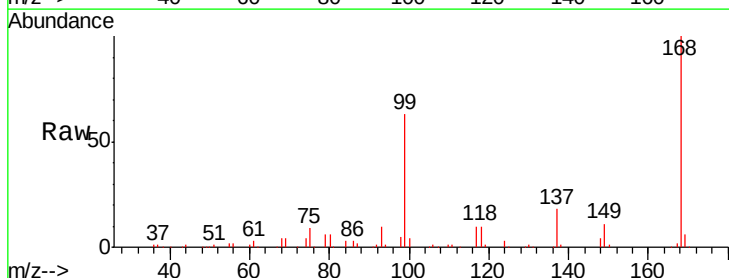
Tgt Ion: 75 Resp: 14082

Ion Ratio Lower Upper

75 100

110 9.5 16.7 50.0#

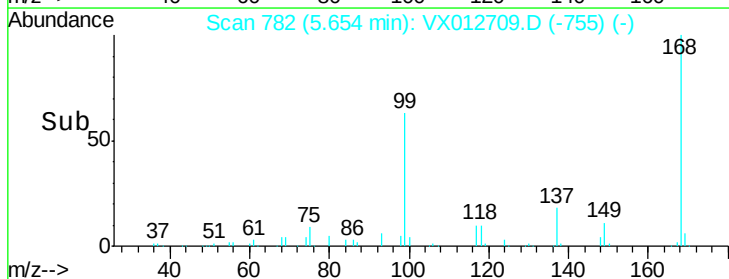
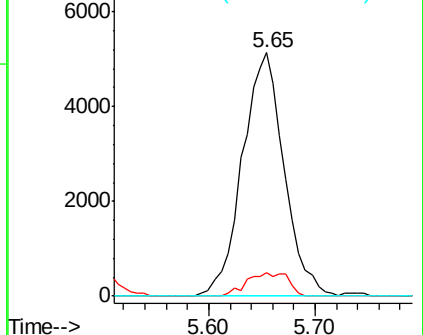
77 0.0 24.2 36.2#

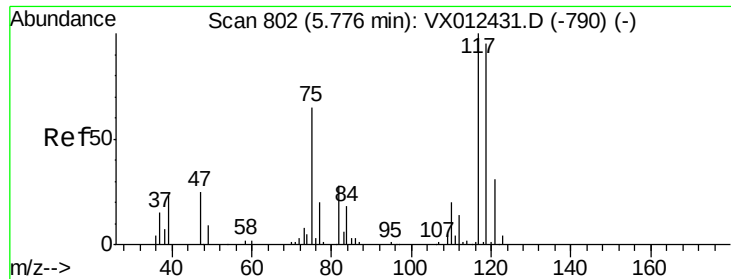


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.365 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ12311-20190926

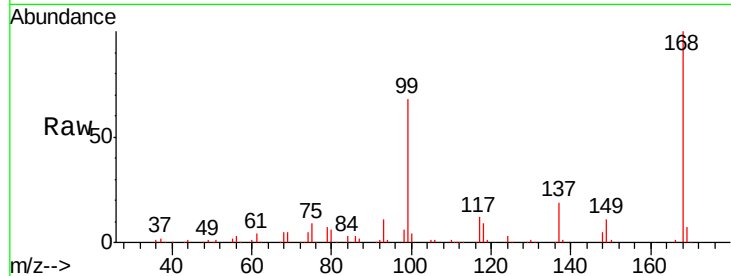
Tgt Ion:117 Resp: 17851

Ion Ratio Lower Upper

117 100

119 4.5 75.7 113.5#

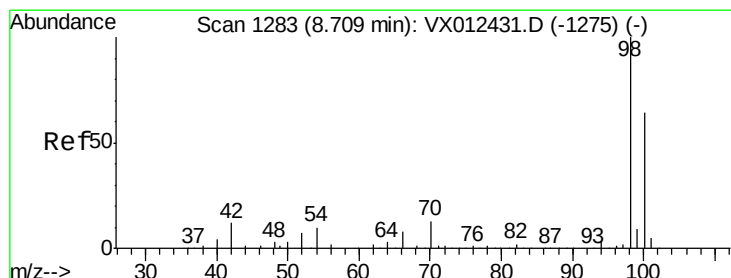
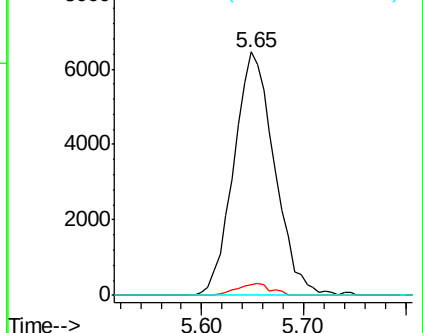
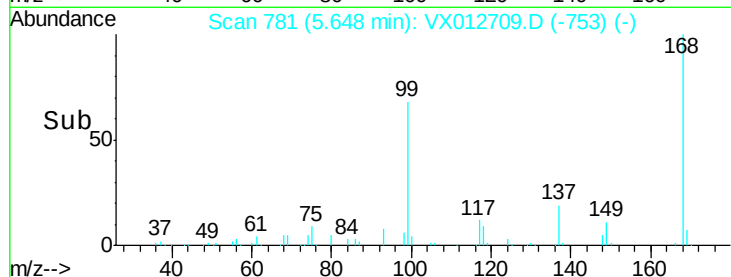
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 51.175 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012709.D

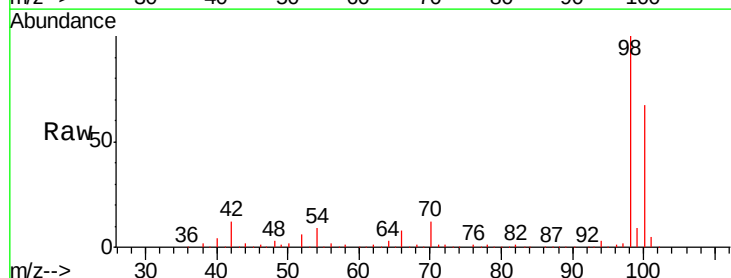
Acq: 30 Sep 2019 16:43

Tgt Ion: 98 Resp: 336166

Ion Ratio Lower Upper

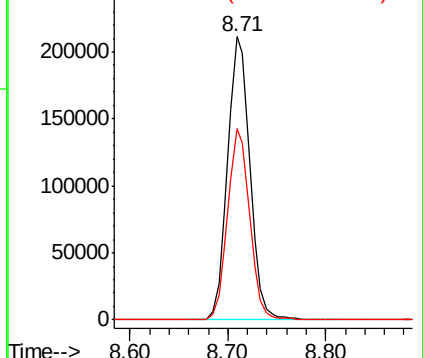
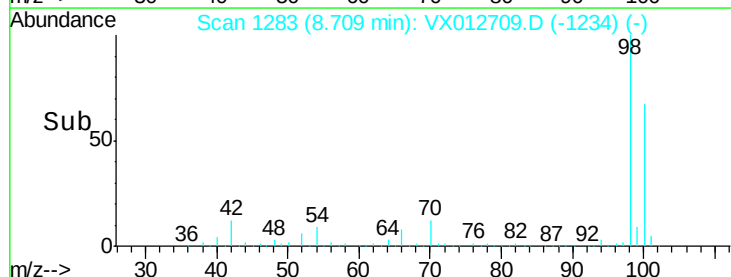
98 100

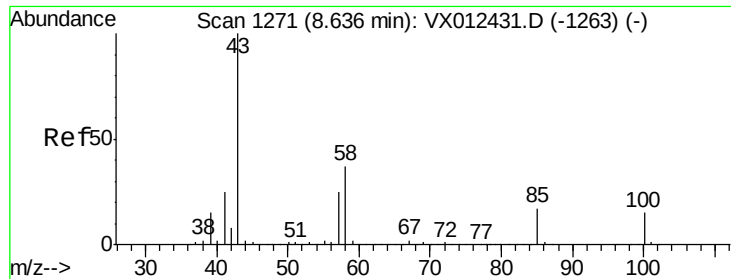
100 67.0 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

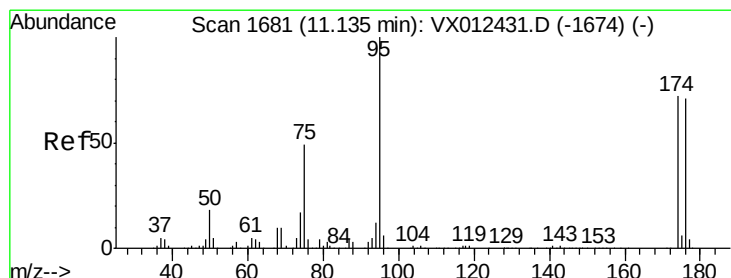
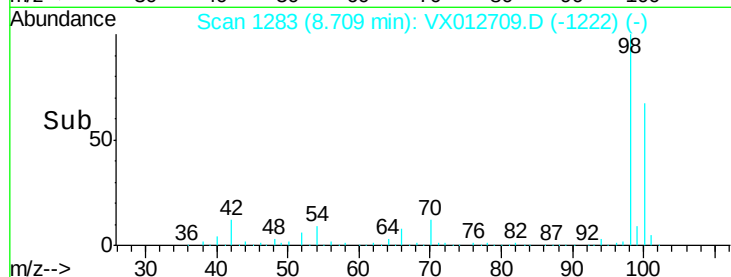
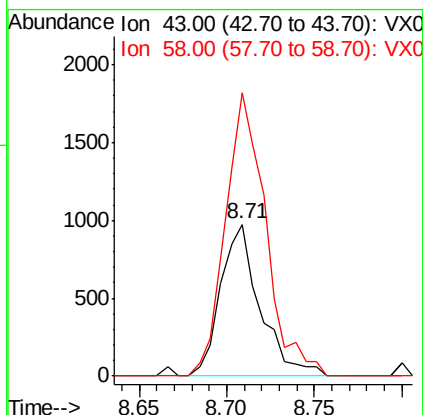
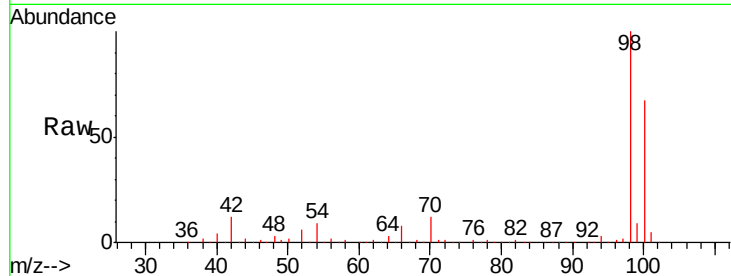




#51
 4-Methyl-2-Pentanone
 Concen: 0.460 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.07 min
 Lab File: VX012709.D
 Acq: 30 Sep 2019 16:43

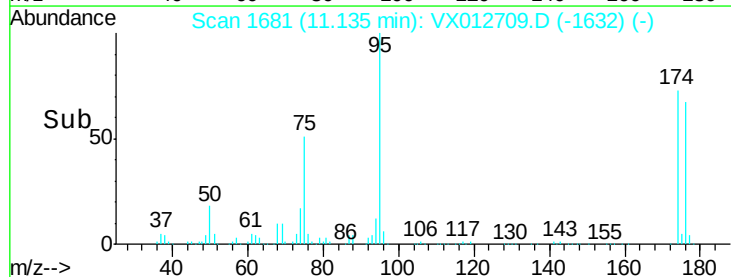
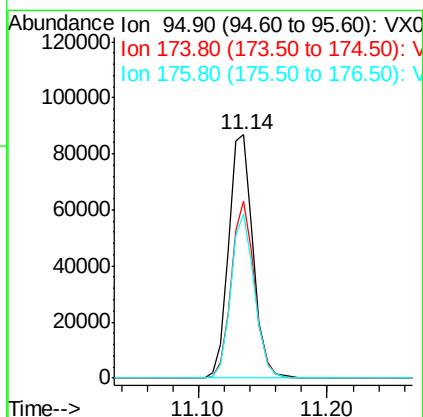
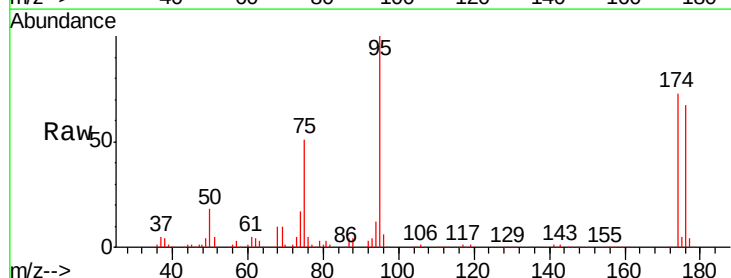
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ12311-20190926

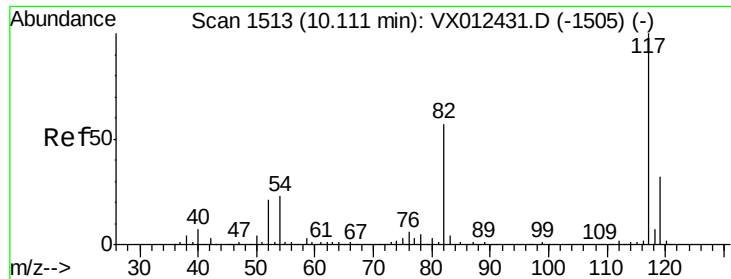
Tgt Ion: 43 Resp: 1532
 Ion Ratio Lower Upper
 43 100
 58 190.3 29.8 44.6#



#62
 4-Bromofluorobenzene
 Concen: 44.644 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VX012709.D
 Acq: 30 Sep 2019 16:43

Tgt Ion: 95 Resp: 115312
 Ion Ratio Lower Upper
 95 100
 174 69.5 0.0 140.0
 176 65.0 0.0 135.4

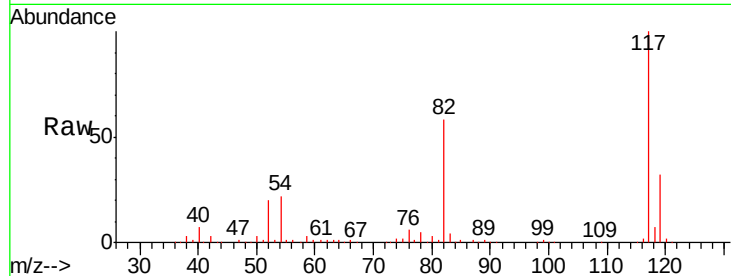




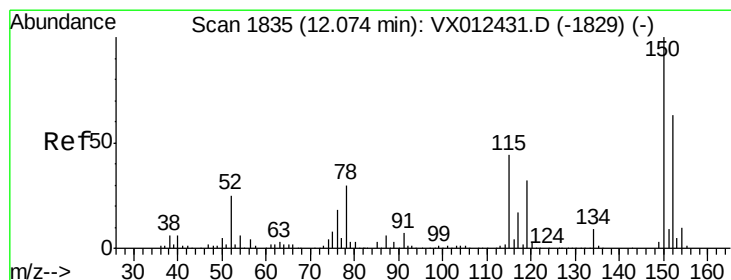
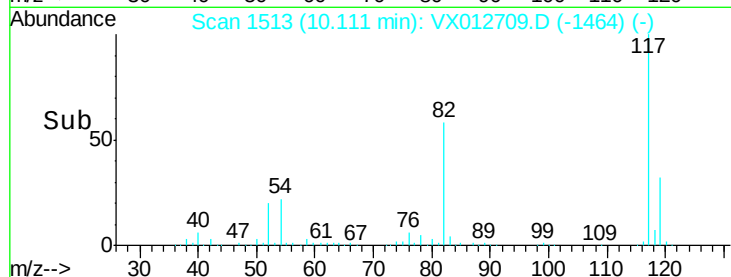
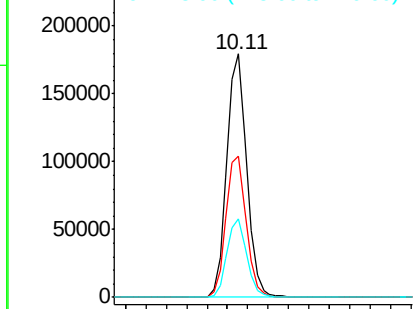
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012709.D
Acq: 30 Sep 2019 16:43

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ12311-20190926

Tgt Ion:117 Resp: 242402
Ion Ratio Lower Upper
117 100
82 57.8 45.9 68.9
119 32.2 25.3 37.9

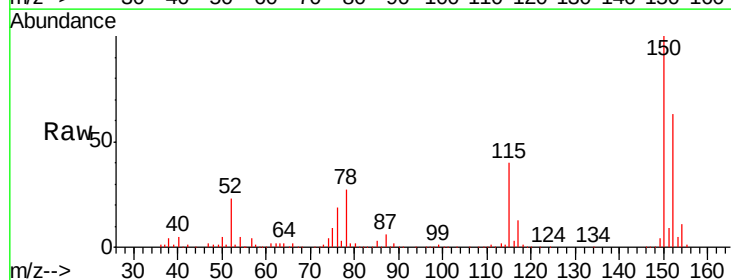


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

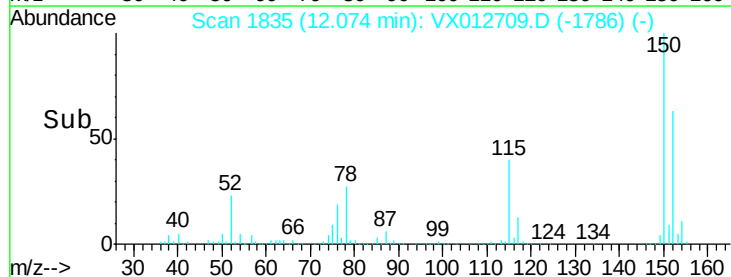
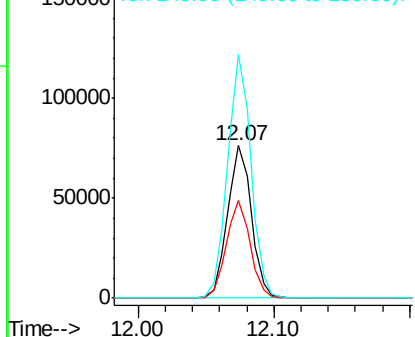


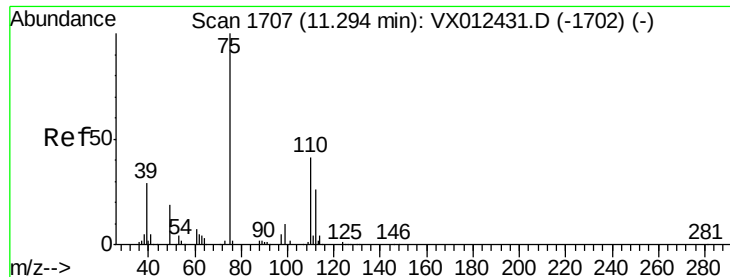
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012709.D
Acq: 30 Sep 2019 16:43

Tgt Ion:152 Resp: 92934
Ion Ratio Lower Upper
152 100
115 63.9 44.1 132.3
150 157.5 0.0 343.8



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: 24.259 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

Instrument :

MSVOA_X

ClientSampleId :

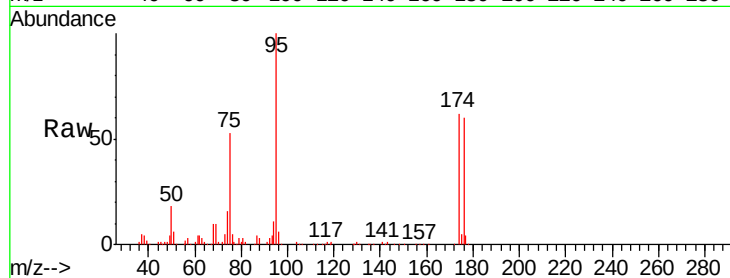
SA-PZ12311-20190926

Tgt Ion: 75 Resp: 59637

Ion Ratio Lower Upper

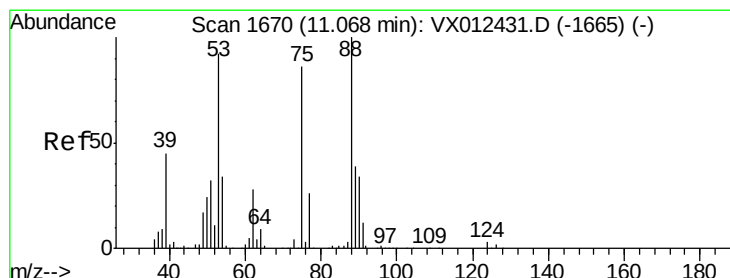
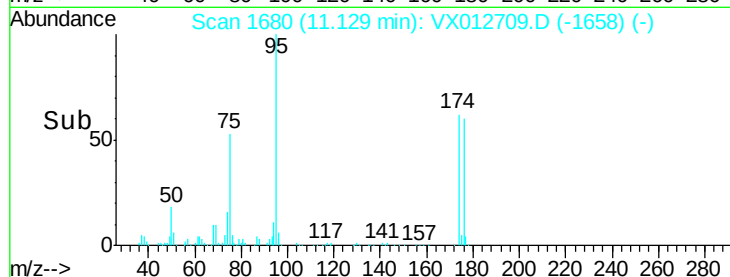
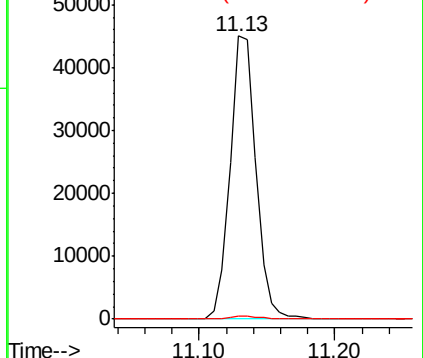
75 100

77 1.3 19.7 59.0#



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: 69.521 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012709.D

Acq: 30 Sep 2019 16:43

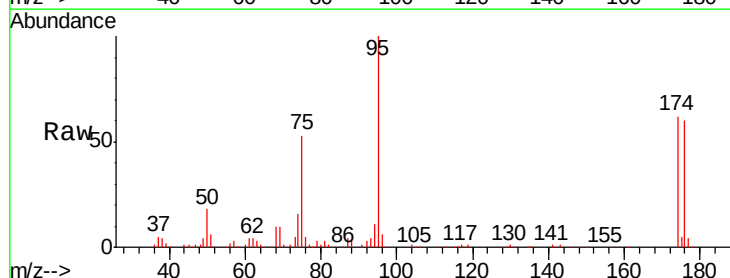
Tgt Ion: 75 Resp: 59637

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

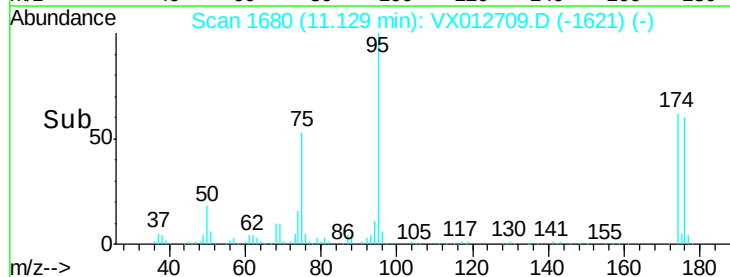
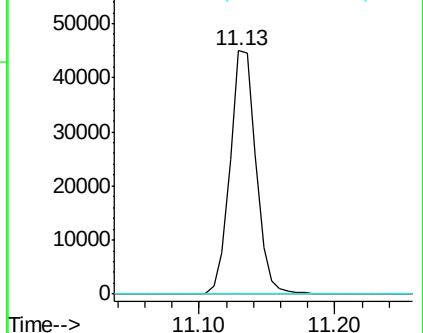
89 0.0 36.3 54.5#

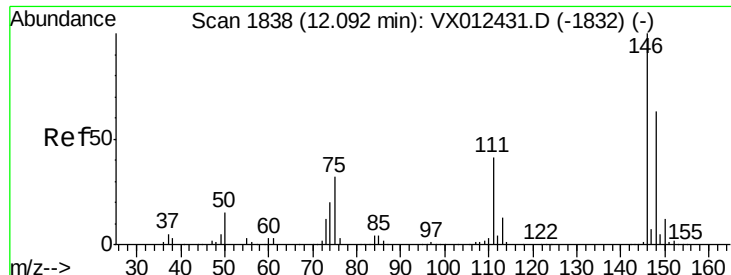


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

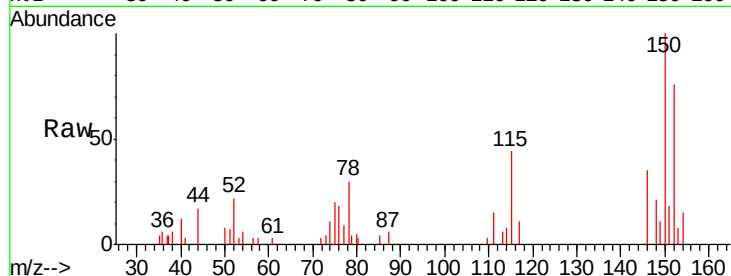




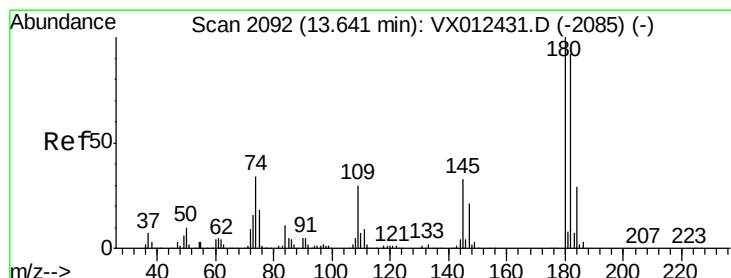
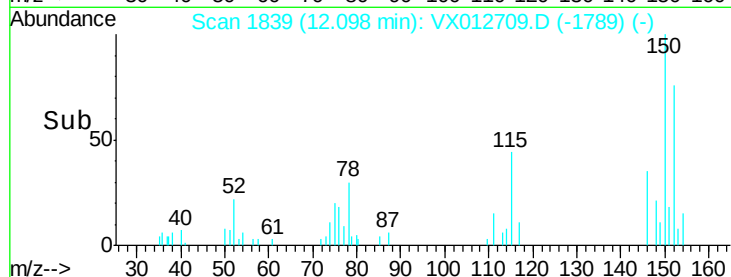
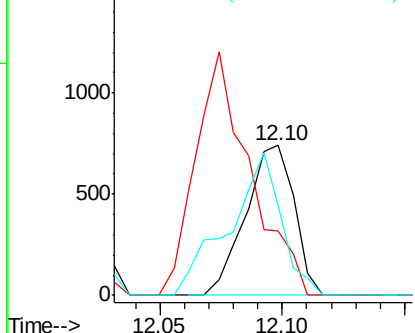
#88
 1,4-Dichlorobenzene
 Concen: 0.330 ug/l
 RT: 12.10 min Scan# 1839
 Delta R.T. 0.01 min
 Lab File: VX012709.D
 Acq: 30 Sep 2019 16:43

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ12311-20190926

Tgt Ion:146 Resp: 1027
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.1 63.3#
 148 102.4 32.1 96.5#

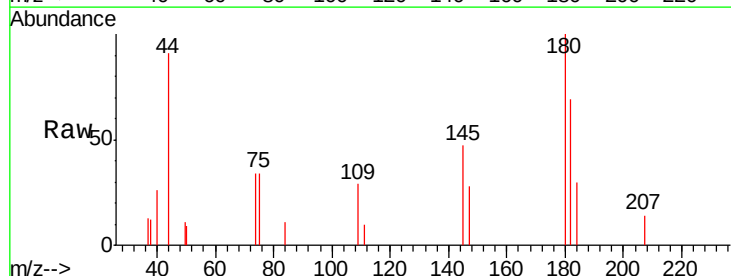


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#93
 1,2,4-Trichlorobenzene
 Concen: 0.368 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX012709.D
 Acq: 30 Sep 2019 16:43

Tgt Ion:180 Resp: 692
 Ion Ratio Lower Upper
 180 100
 182 100.6 47.0 141.0
 145 46.2 16.8 50.4



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

