

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012480.D
 Acq On : 18 Sep 2019 17:44
 Operator : JC/SP
 Sample : K4858-12DL 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20190909DL

Quant Time: Sep 19 06:03:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	189585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	293401	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	98681	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	123831	45.57	ug/l	0.00
Spiked Amount			Recovery	=	91.14%	
35) Dibromofluoromethane	5.49	113	90231	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
50) Toluene-d8	8.71	98	335959	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.14	95	119134	43.65	ug/l	0.00
Spiked Amount			Recovery	=	87.30%	

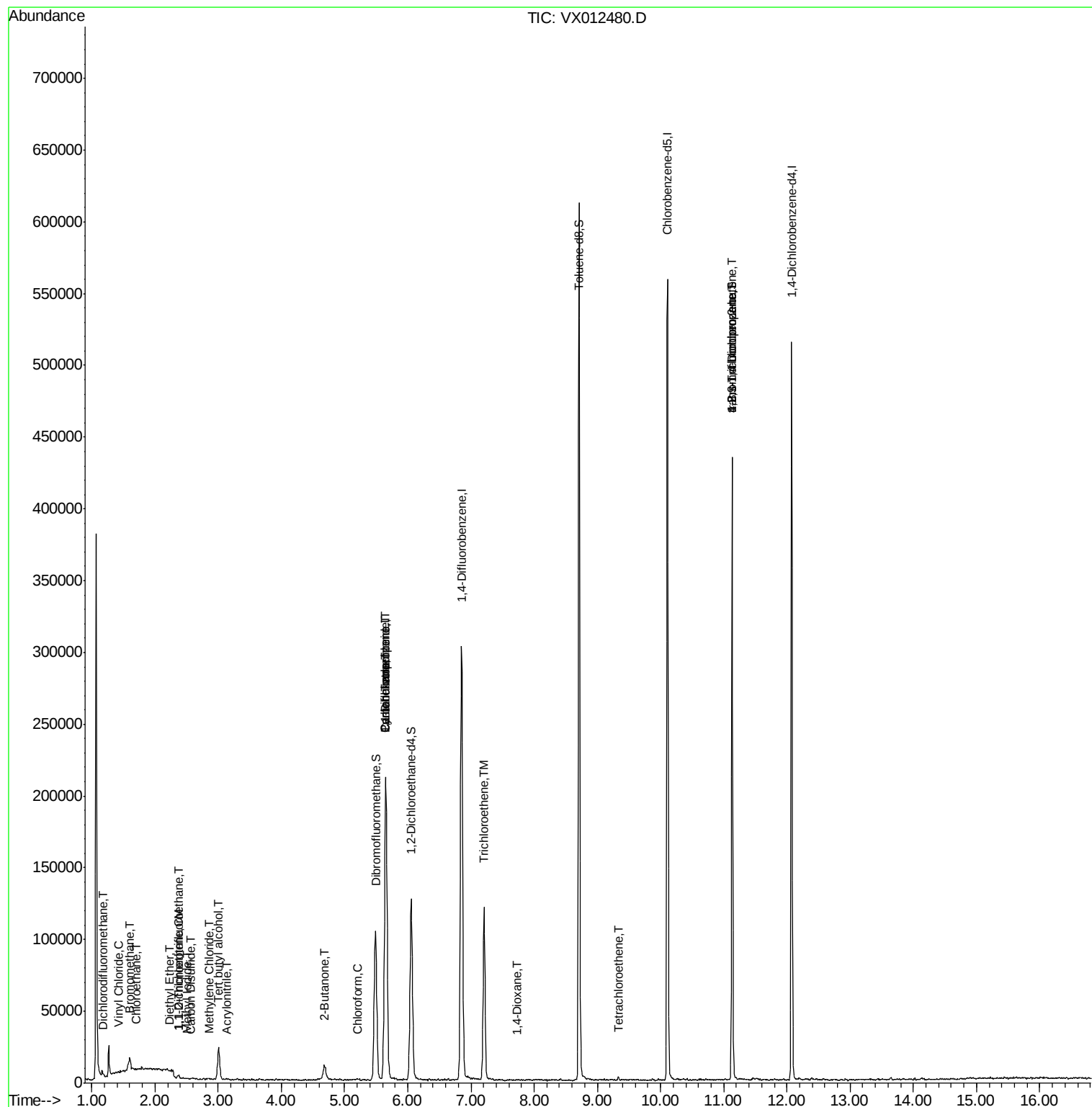
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	43	0.425	ug/l #	43
4) Vinyl Chloride	1.42	62	234	0.208	ug/l #	47
5) Bromomethane	1.61	94	215	0.486	ug/l #	4
6) Chloroethane	1.69	64	233	0.264	ug/l #	49
8) Diethyl Ether	2.23	74	207	0.222	ug/l	60
9) 1,1,2-Trichlorotrifluoroet	2.37	101	638	0.427	ug/l #	85
10) Methyl Iodide	2.50	142	431	4.748	ug/l #	85
11) Tert butyl alcohol	3.01	59	13888	14.627	ug/l #	79
12) 1,1-Dichloroethene	2.36	96	413	0.346	ug/l #	70
13) Acrolein	2.29	56	209	Below Cal		95
15) Acrylonitrile	3.14	53	304	0.258	ug/l #	79
16) Acetone	2.44	43	965	Below Cal	#	67
17) Carbon Disulfide	2.56	76	362	2.013	ug/l #	75
20) Methylene Chloride	2.86	84	441	0.268	ug/l #	45
25) 2-Butanone	4.68	43	541	0.287	ug/l #	51
30) Chloroform	5.20	83	856	0.240	ug/l #	55
31) Cyclohexane	5.64	56	4550	2.425	ug/l #	4
36) 1,1-Dichloropropene	5.65	75	16046	8.999	ug/l #	52
38) Carbon Tetrachloride	5.65	117	20635	9.304	ug/l #	17
44) Trichloroethene	7.20	130	46792	31.370	ug/l	97
49) 1,4-Dioxane	7.72	88	31	0.550	ug/l #	1
64) Tetrachloroethene	9.34	164	228	0.202	ug/l #	64
76) 1,2,3-Trichloropropane	11.14	75	62136	27.412	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	62136	73.691	ug/l #	8

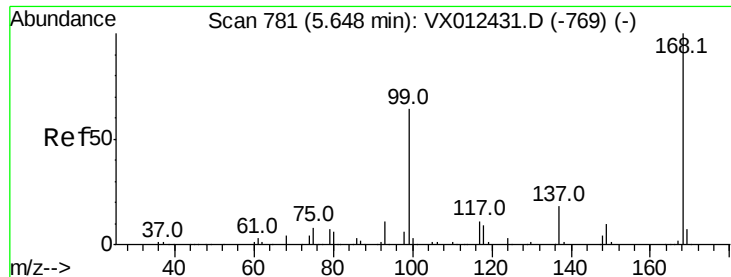
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

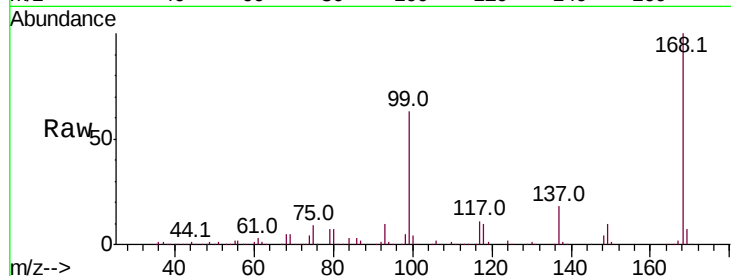
DUP01-20190909DL

Tot Ion:168 Resp: 189585

Ion Ratio Lower Upper

168 100

99 62.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

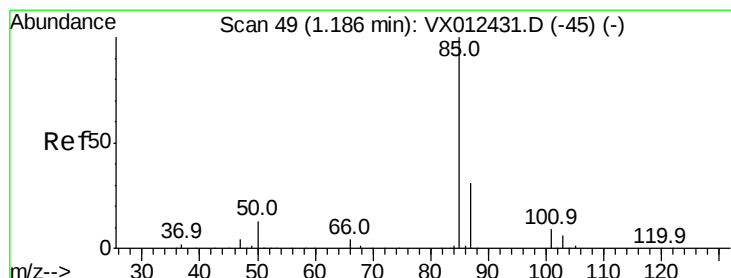
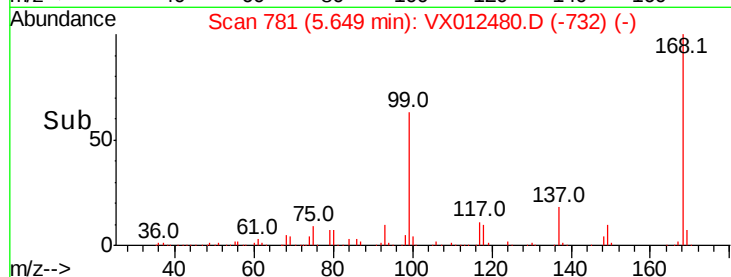
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.425 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX012480.D

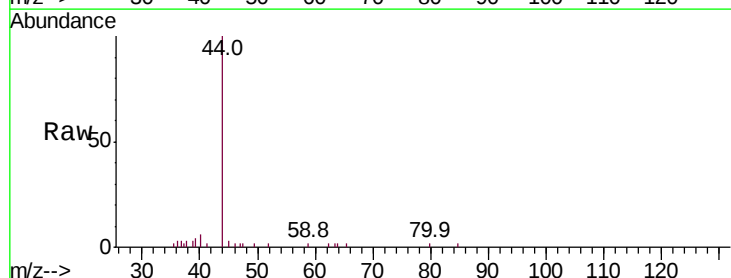
Acq: 18 Sep 2019 17:44

Tgt Ion: 85 Resp: 43

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

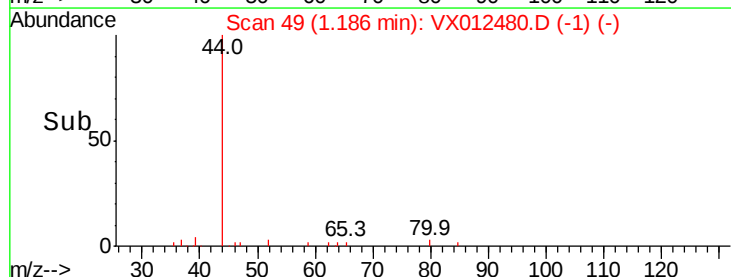
60

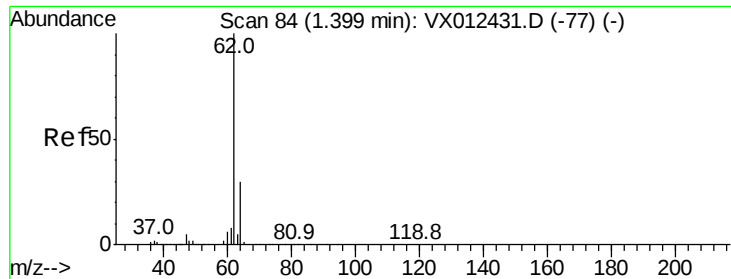
40

20

0

Time--> 1.16 1.18 1.20





#4

Vinyl Chloride

Concen: 0.208 ug/l

RT: 1.42 min Scan# 87

Delta R.T. 0.02 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleID :

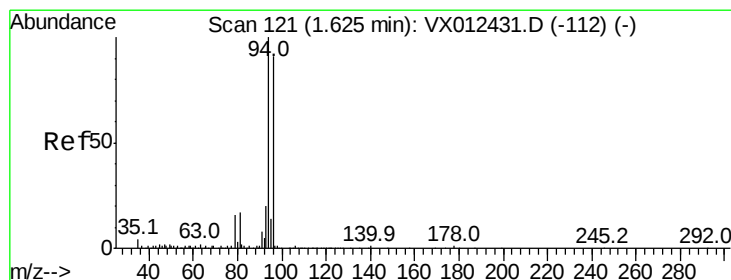
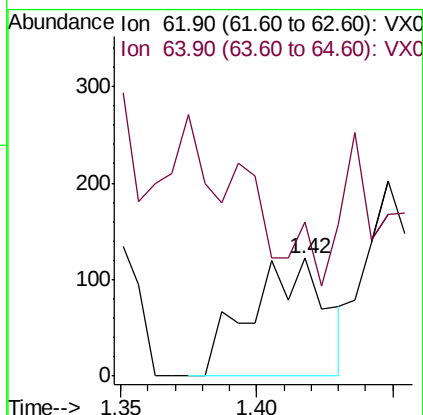
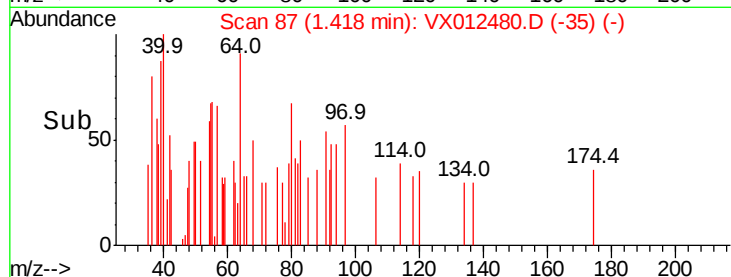
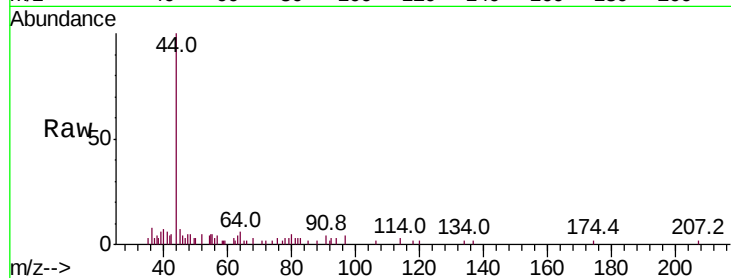
DUP01-20190909DL

Tot Ion: 62 Resp: 234

Ion Ratio Lower Upper

62 100

64 1.6 24.2 36.2#



#5

Bromomethane

Concen: 0.486 ug/l

RT: 1.61 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX012480.D

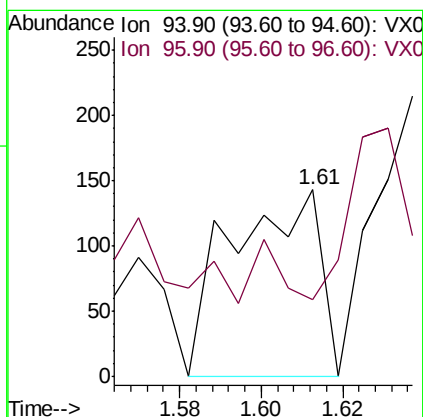
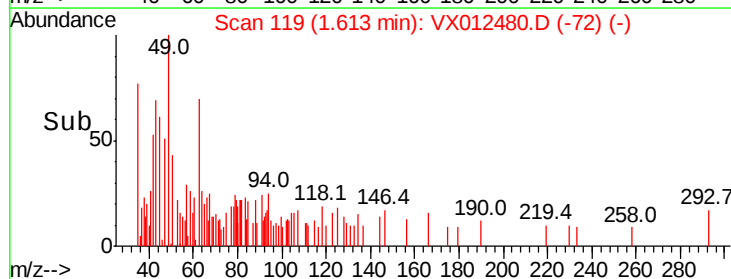
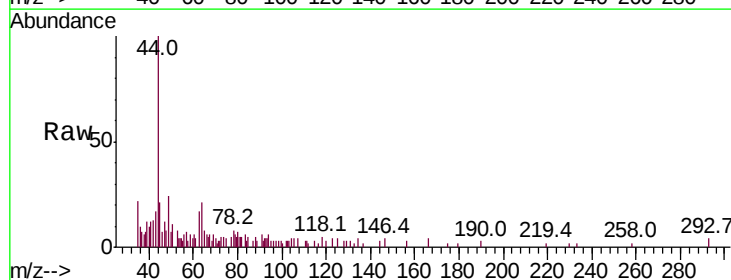
Acq: 18 Sep 2019 17:44

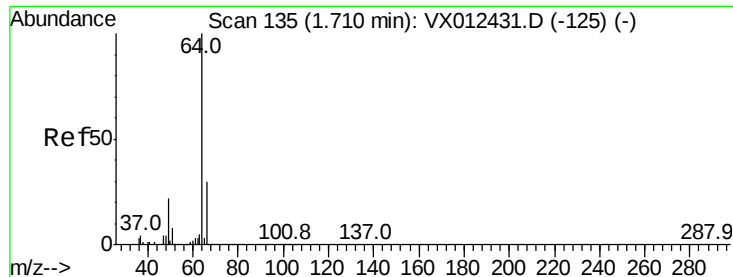
Tgt Ion: 94 Resp: 215

Ion Ratio Lower Upper

94 100

96 0.0 72.8 109.2#





#6

Chloroethane

Concen: 0.264 ug/l

RT: 1.69 min Scan# 132

Delta R.T. -0.02 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

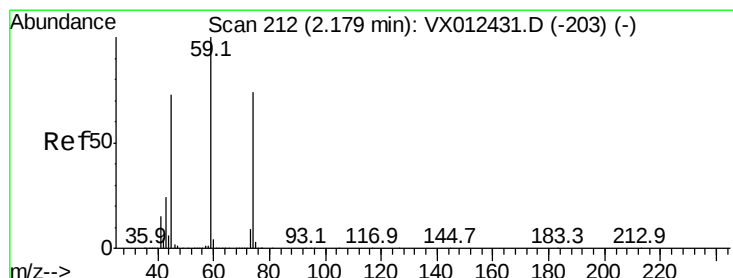
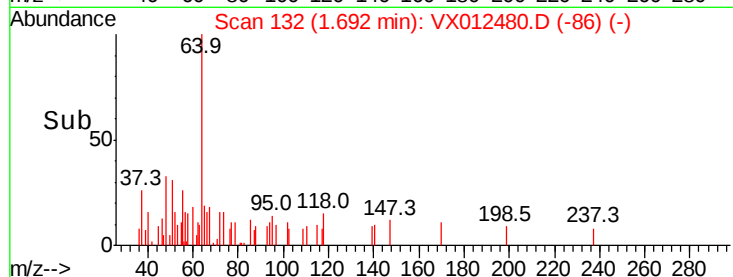
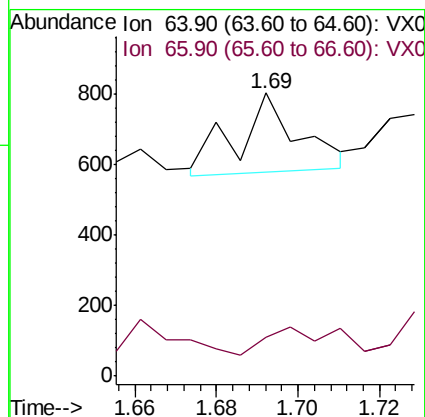
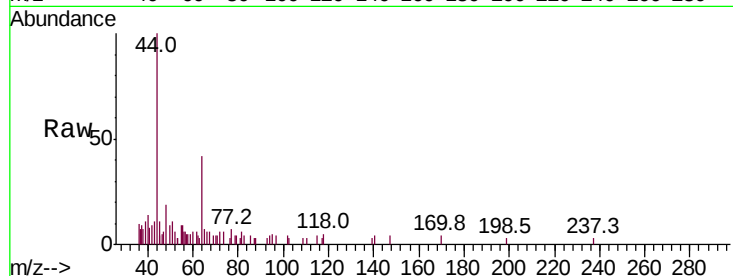
DUP01-20190909DL

Tot Ion: 64 Resp: 233

Ion Ratio Lower Upper

64 100

66 2.4 24.0 36.0#



#8

Diethyl Ether

Concen: 0.222 ug/l

RT: 2.23 min Scan# 220

Delta R.T. 0.05 min

Lab File: VX012480.D

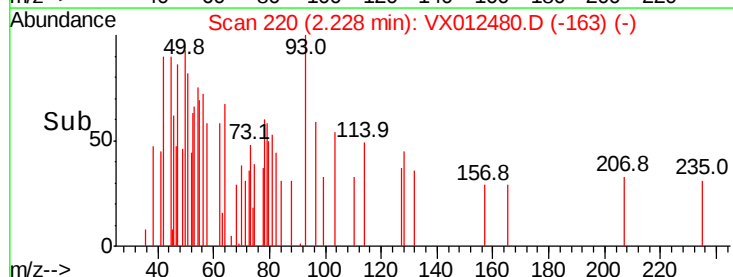
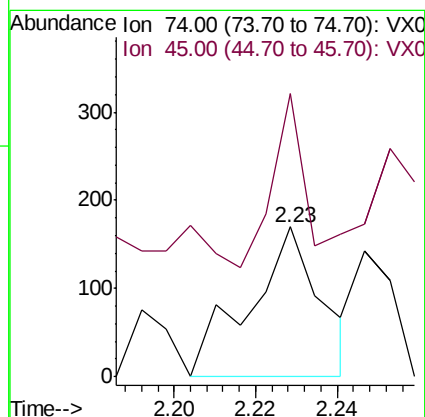
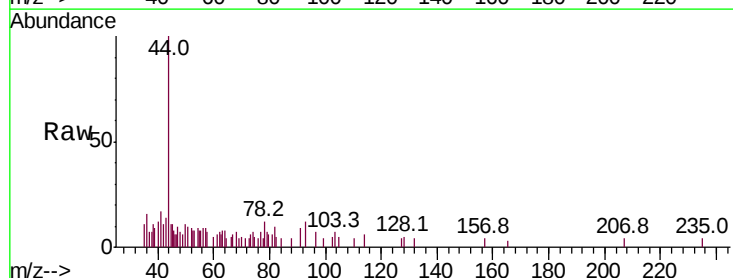
Acq: 18 Sep 2019 17:44

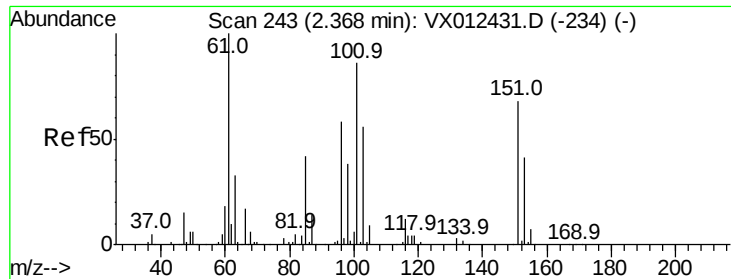
Tgt Ion: 74 Resp: 207

Ion Ratio Lower Upper

74 100

45 59.9 49.9 149.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.427 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20190909DL

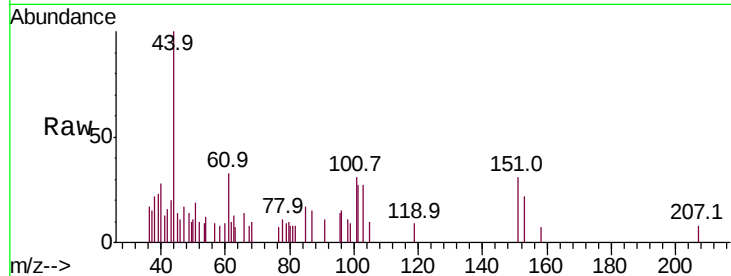
Tot Ion:101 Resp: 638

Ion Ratio Lower Upper

101 100

85 64.7 37.3 55.9#

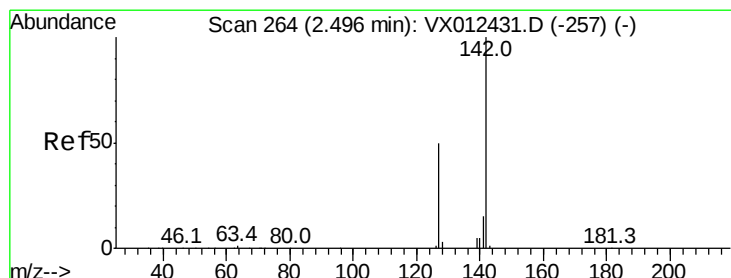
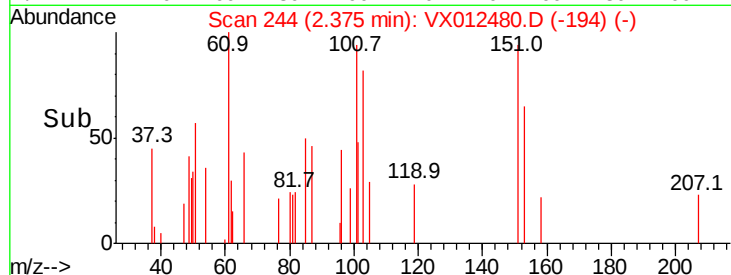
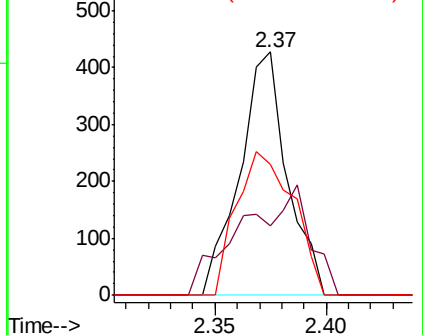
151 70.2 61.0 91.4



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



#10

Methyl Iodide

Concen: 4.748 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

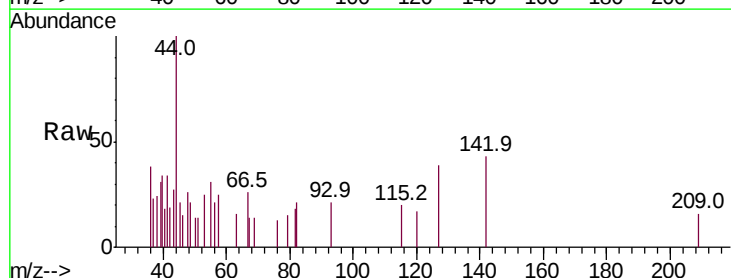
Tgt Ion:142 Resp: 431

Ion Ratio Lower Upper

142 100

127 56.8 40.8 61.2

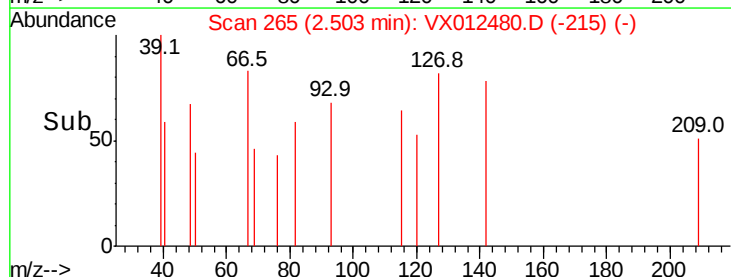
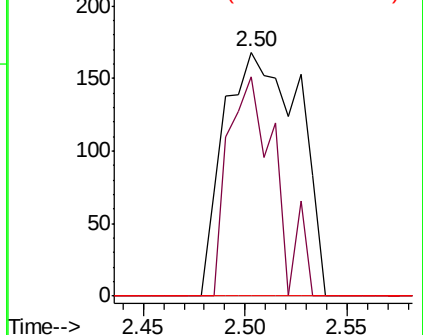
141 0.0 12.1 18.1#

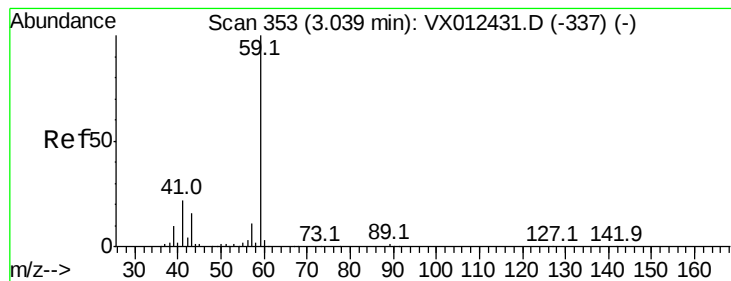


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



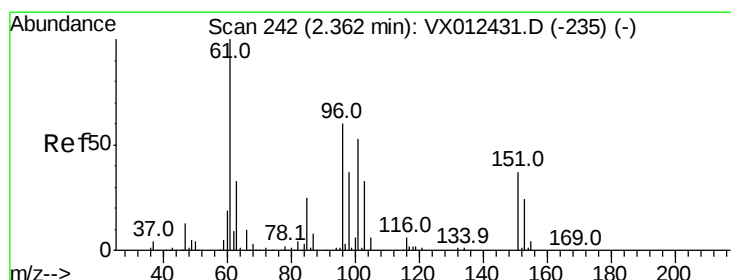
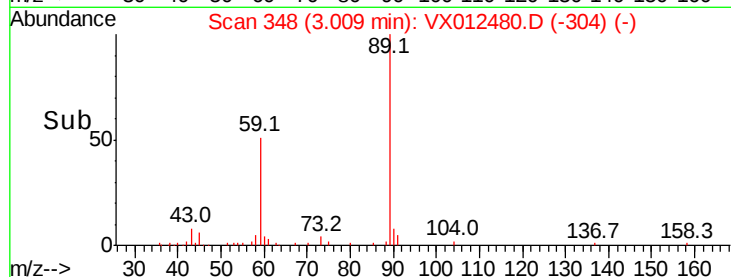
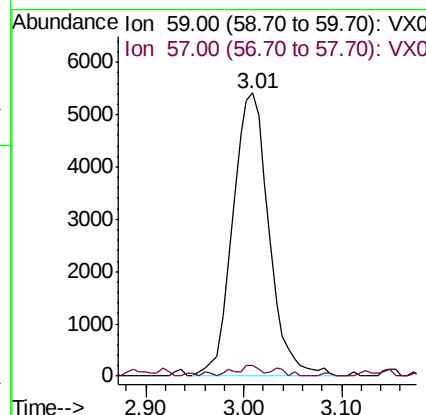
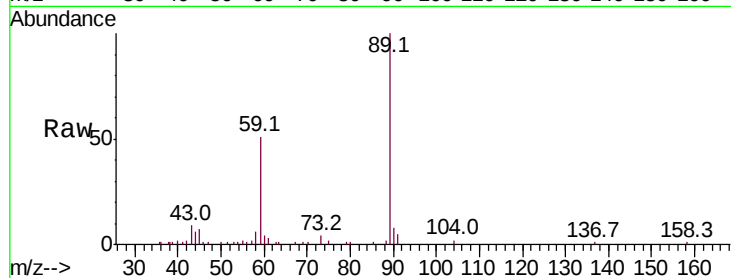


#11

Tert butyl alcohol
 Concen: 14.627 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX012480.D
 Acq: 18 Sep 2019 17:44

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20190909DL

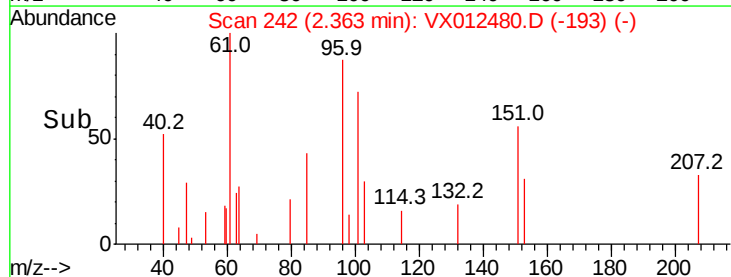
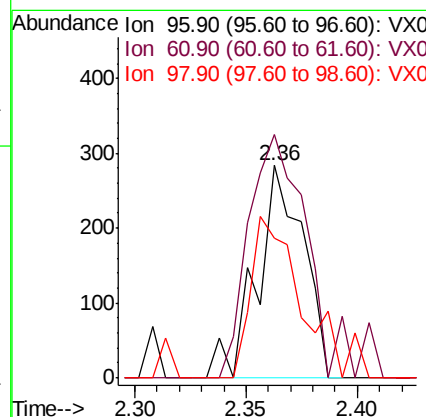
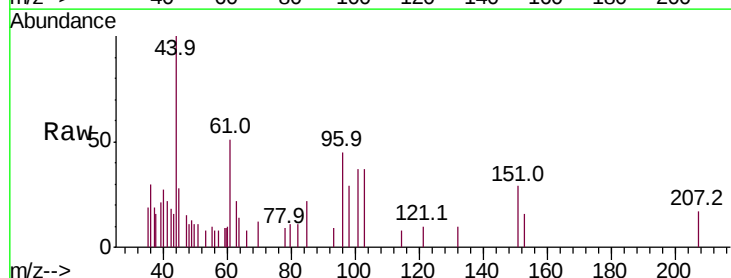
Tot Ion: 59 Resp: 13888
 Ion Ratio Lower Upper
 59 100
 57 2.6 8.3 12.5#

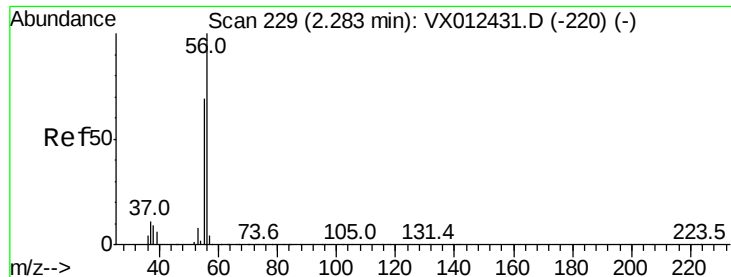


#12

1,1-Dichloroethene
 Concen: 0.346 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX012480.D
 Acq: 18 Sep 2019 17:44

Tgt Ion: 96 Resp: 413
 Ion Ratio Lower Upper
 96 100
 61 114.4 133.8 200.6#
 98 65.8 49.9 74.9





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

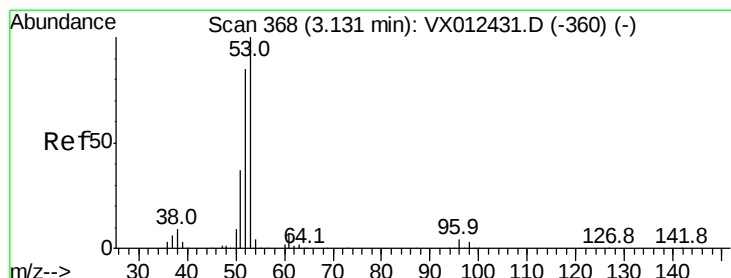
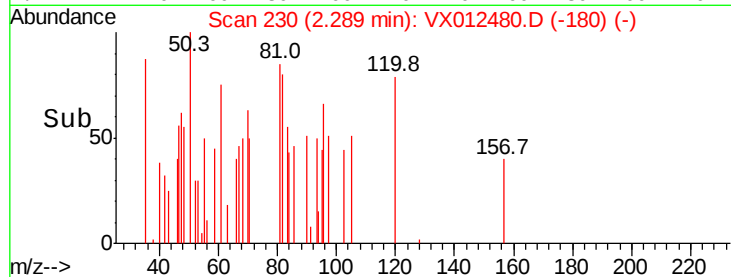
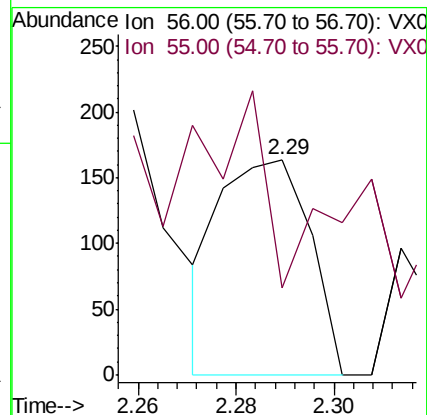
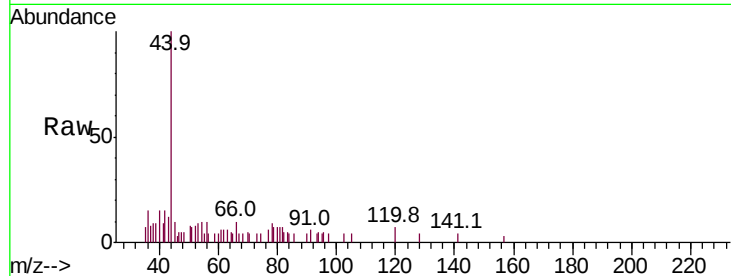
DUP01-20190909DL

Tot Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

55 65.6 55.8 83.8



#15

Acrylonitrile

Concen: 0.258 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

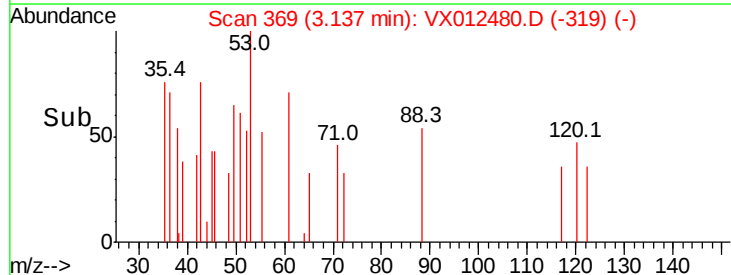
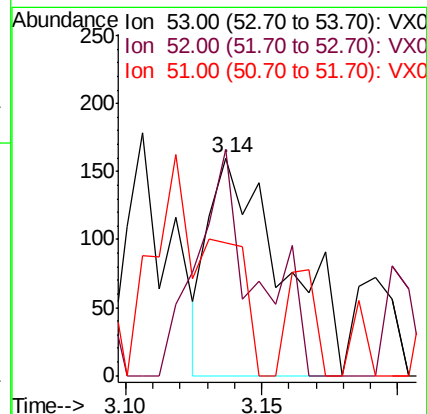
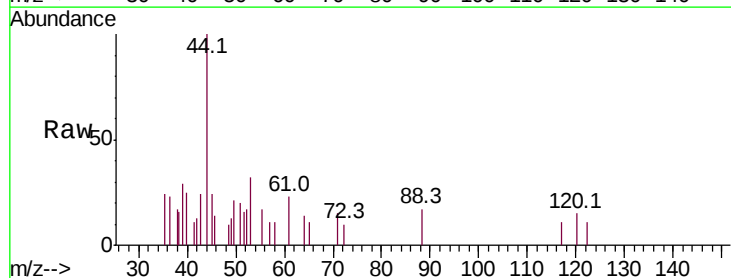
Tgt Ion: 53 Resp: 304

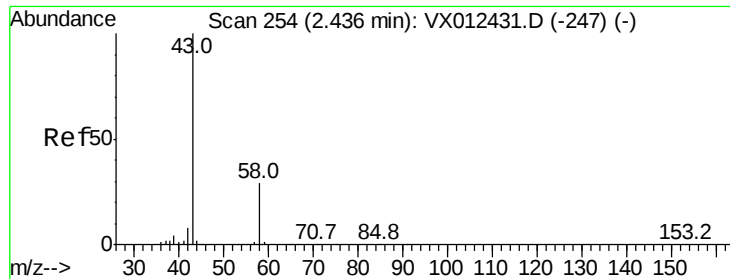
Ion Ratio Lower Upper

53 100

52 81.6 67.0 100.4

51 0.0 29.6 44.4#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleID :

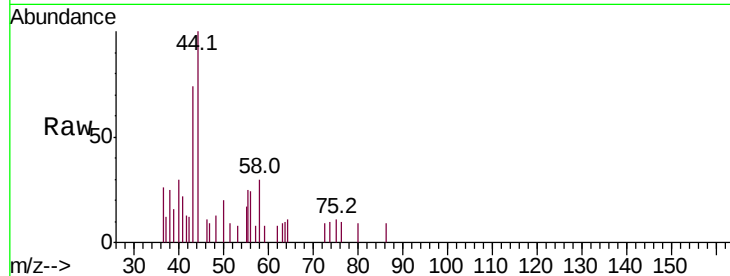
DUP01-20190909DL

Tot Ion: 43 Resp: 965

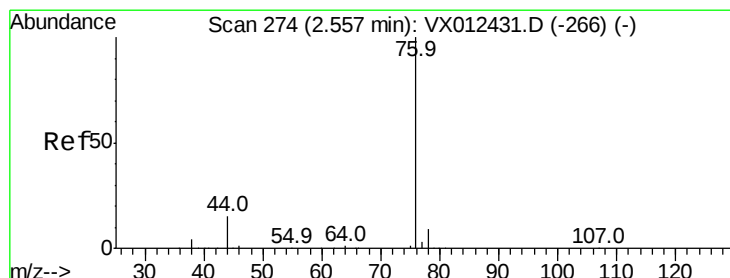
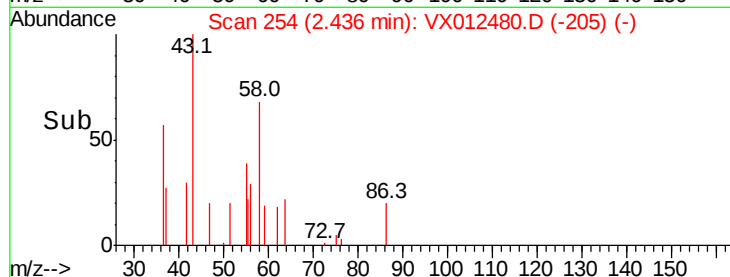
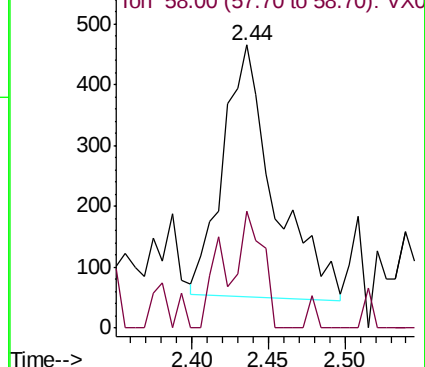
Ion Ratio Lower Upper

43 100

58 46.8 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 2.013 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012480.D

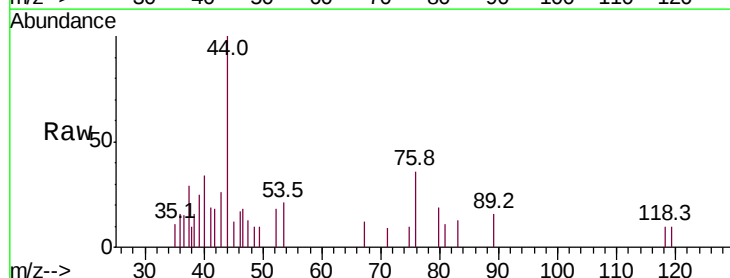
Acq: 18 Sep 2019 17:44

Tgt Ion: 76 Resp: 362

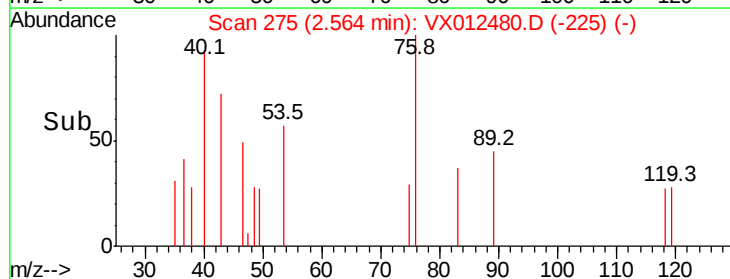
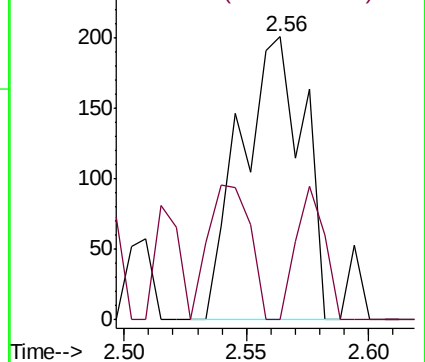
Ion Ratio Lower Upper

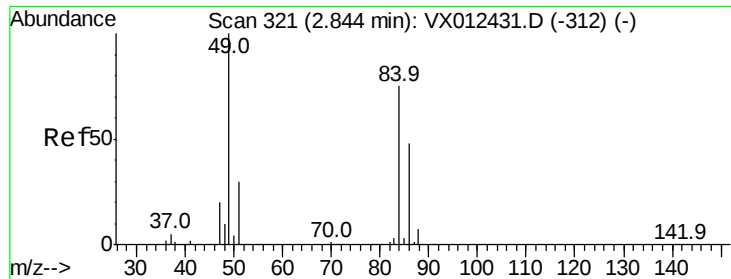
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

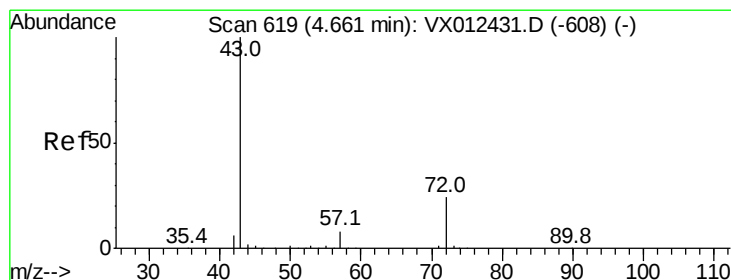
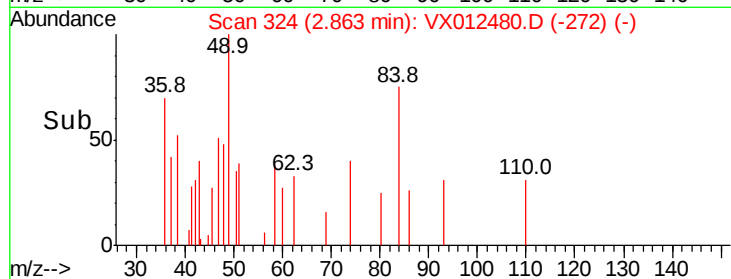
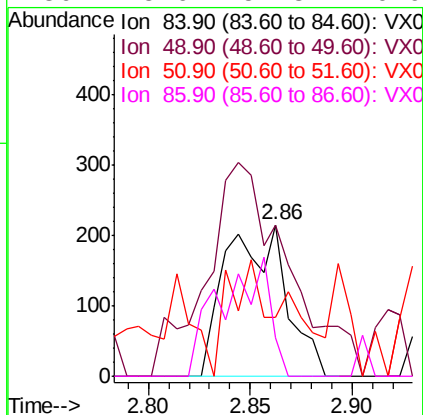
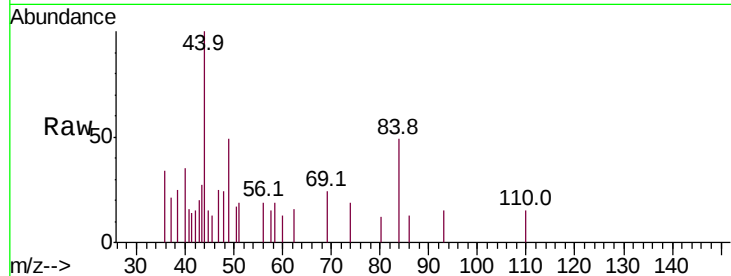




#20
Methylene Chloride
Concen: 0.268 ug/l
RT: 2.86 min Scan# 324
Delta R.T. 0.02 min
Lab File: VX012480.D
Acq: 18 Sep 2019 17:44

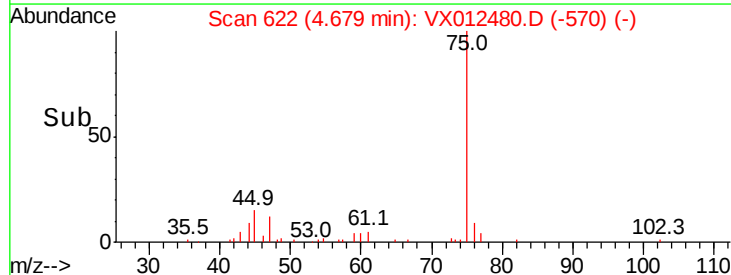
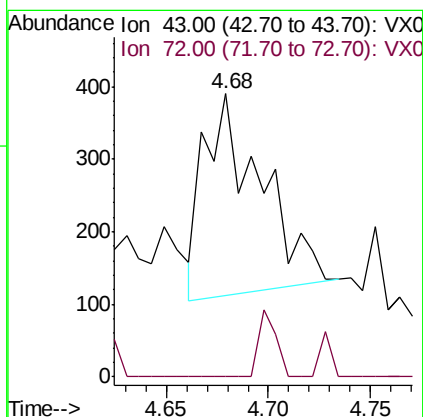
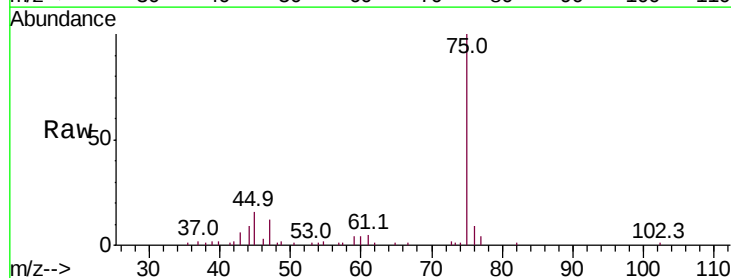
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20190909DL

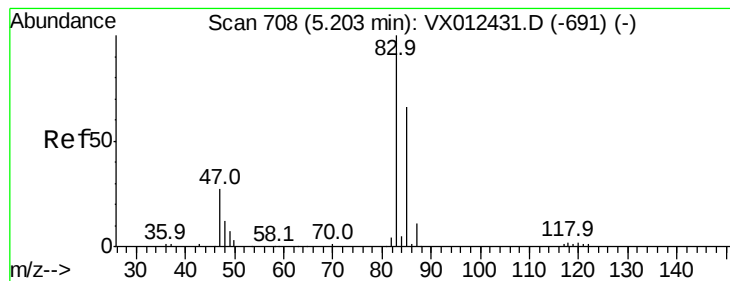
Tot Ion: 84 Resp: 441
Ion Ratio Lower Upper
84 100
49 67.0 106.8 160.2#
51 4.2 32.3 48.5#
86 25.6 51.3 76.9#



#25
2-Butanone
Concen: 0.287 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX012480.D
Acq: 18 Sep 2019 17:44

Tgt Ion: 43 Resp: 541
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#





#30

Chloroform

Concen: 0.240 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

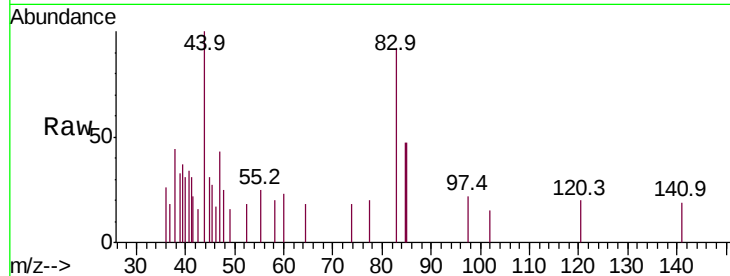
DUP01-20190909DL

Tot Ion: 83 Resp: 856

Ion Ratio Lower Upper

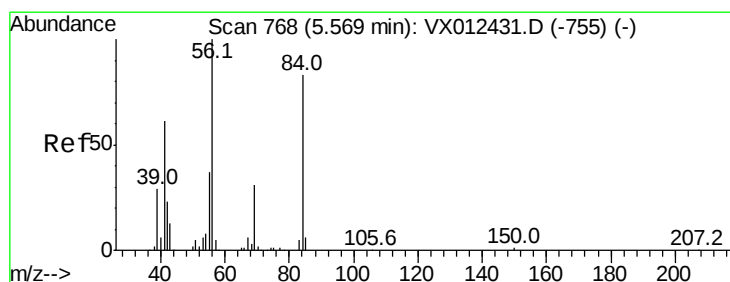
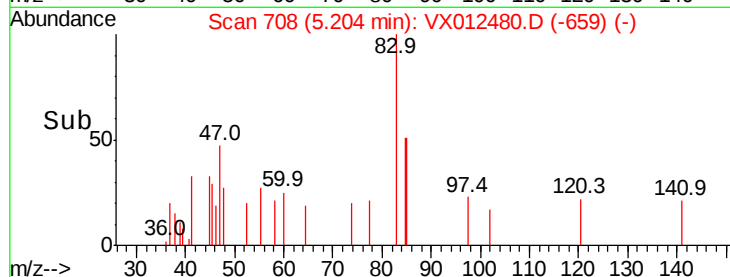
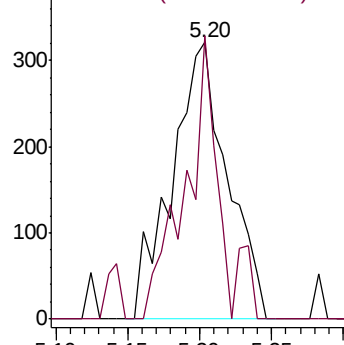
83 100

85 102.2 53.0 79.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#31

Cyclohexane

Concen: 2.425 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

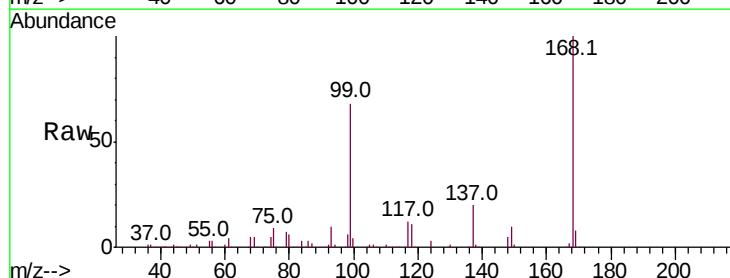
Tgt Ion: 56 Resp: 4550

Ion Ratio Lower Upper

56 100

69 183.4 25.0 37.6#

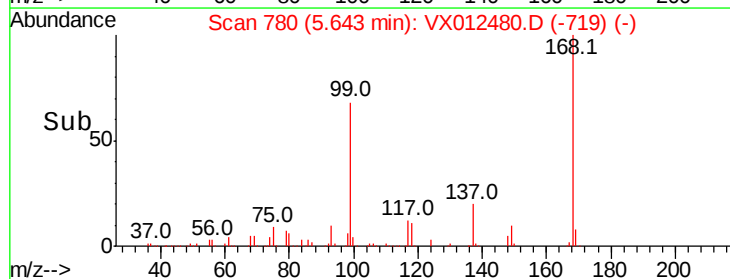
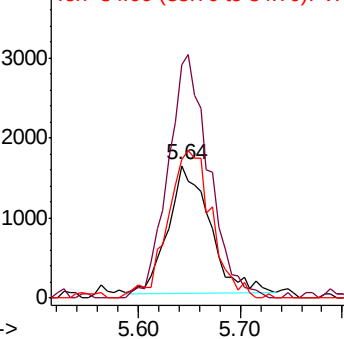
84 108.8 66.4 99.6#

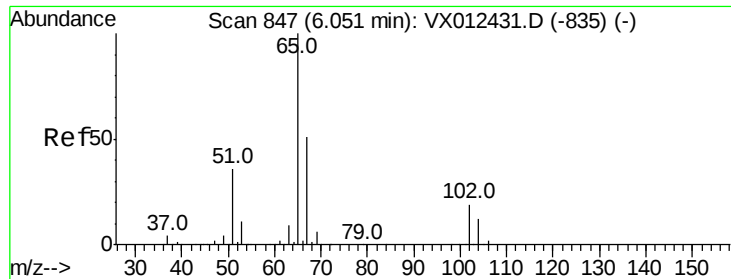


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.574 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

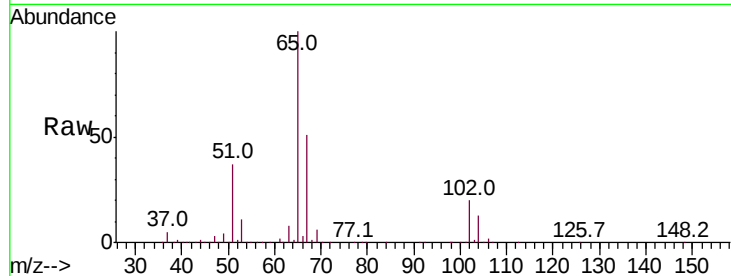
DUP01-20190909DL

Tot Ion: 65 Resp: 123831

Ion Ratio Lower Upper

65 100

67 51.2 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

50000

40000

30000

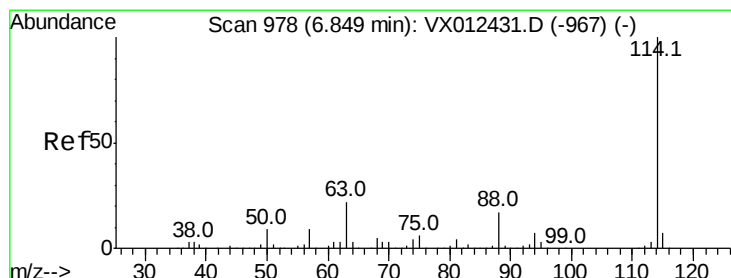
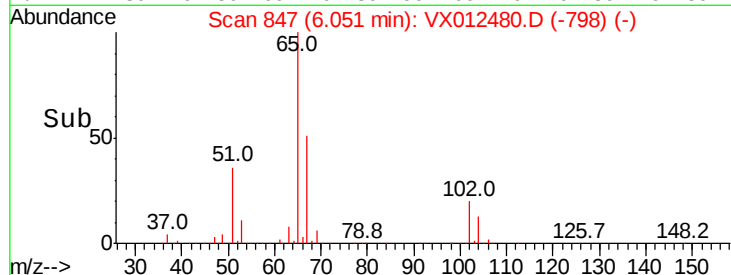
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

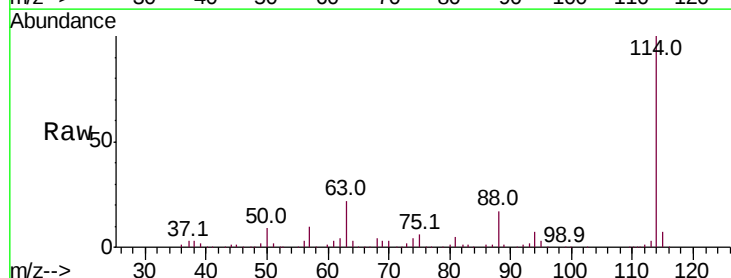
Tgt Ion: 114 Resp: 293401

Ion Ratio Lower Upper

114 100

63 22.1 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

6.85

150000

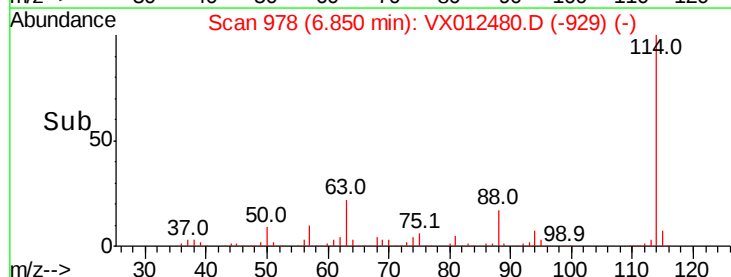
100000

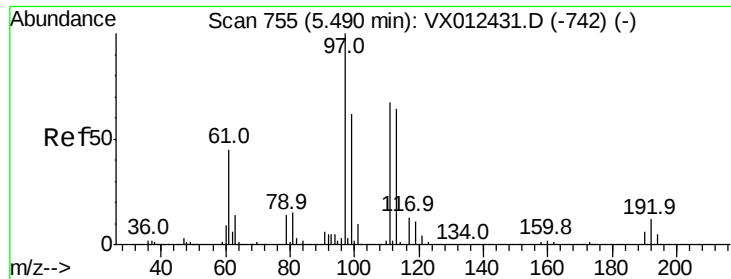
50000

0

Time-->

6.80 6.90 7.00

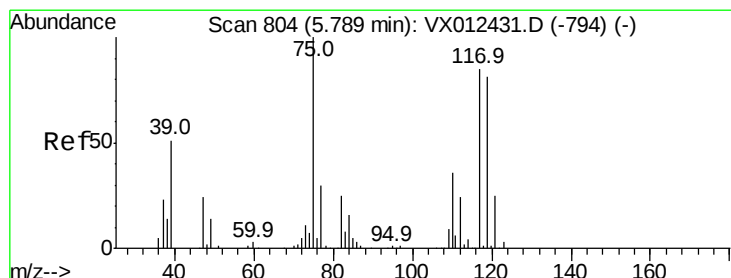
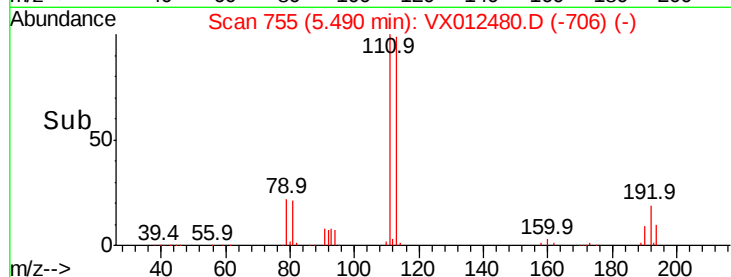
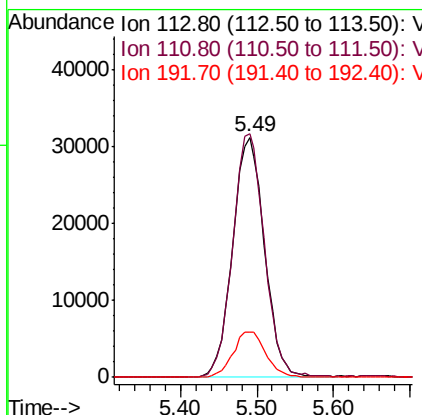
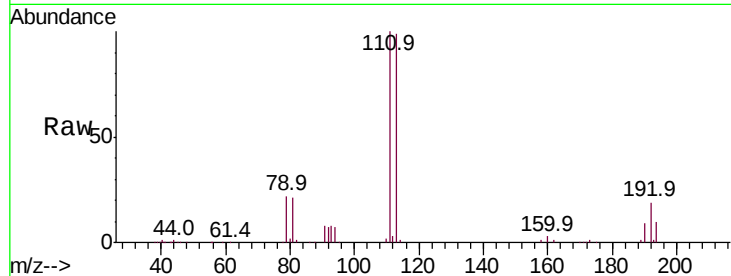




#35
 Dibromofluoromethane
 Concen: 50.810 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012480.D
 Acq: 18 Sep 2019 17:44

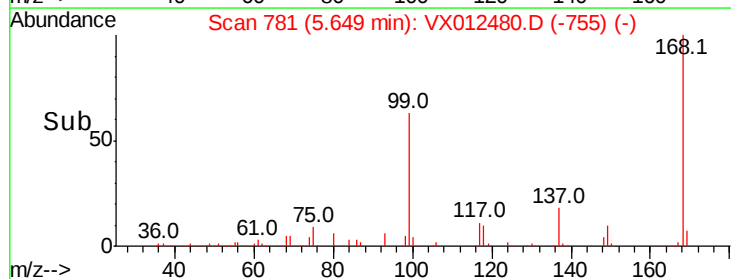
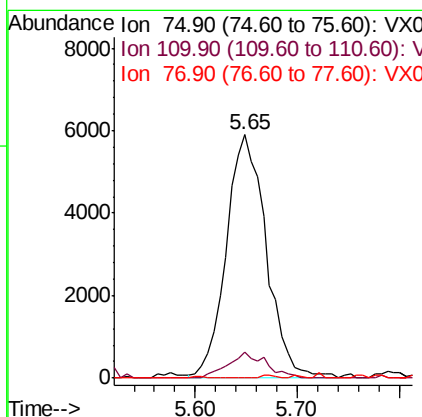
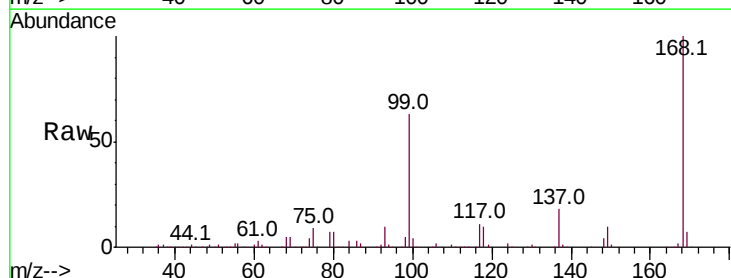
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20190909DL

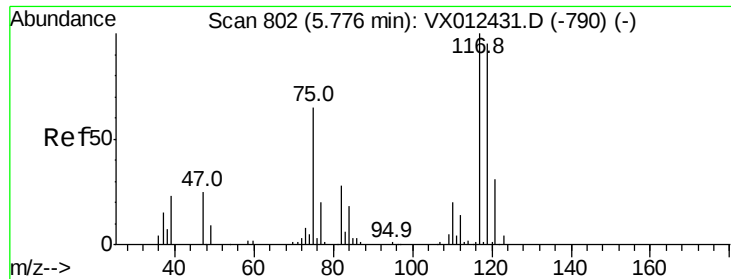
Tot Ion:113 Resp: 90231
 Ion Ratio Lower Upper
 113 100
 111 100.7 83.4 125.2
 192 19.4 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 8.999 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012480.D
 Acq: 18 Sep 2019 17:44

Tgt Ion: 75 Resp: 16046
 Ion Ratio Lower Upper
 75 100
 110 10.1 16.7 50.0#
 77 0.0 24.2 36.2#

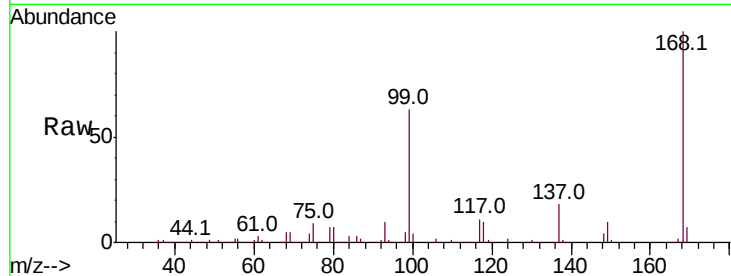




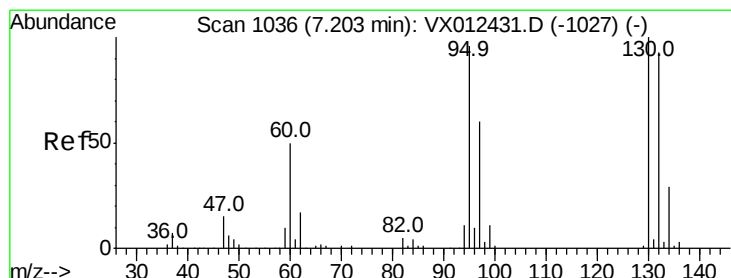
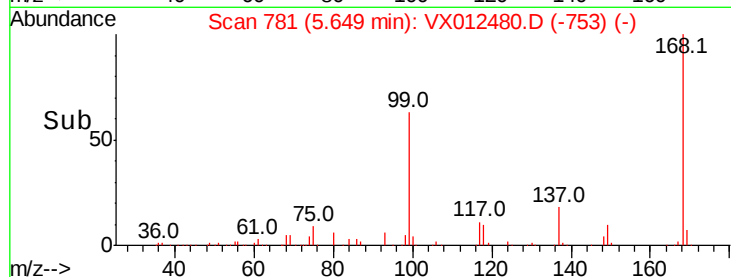
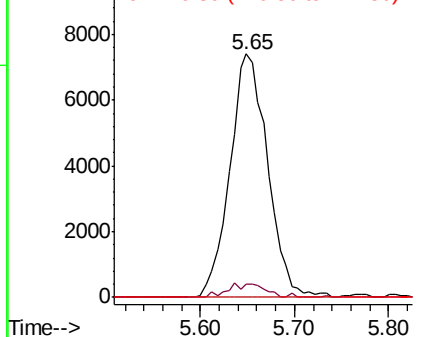
#38
Carbon Tetrachloride
Concen: 9.304 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012480.D
Acq: 18 Sep 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :
DUP01-20190909DL

Tot Ion:117 Resp: 20635
Ion Ratio Lower Upper
117 100
119 5.5 75.7 113.5#
121 0.0 24.2 36.4#

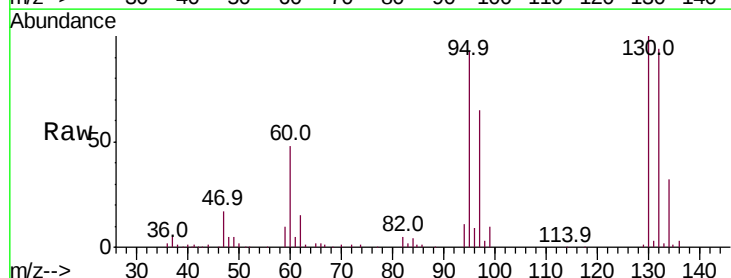


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

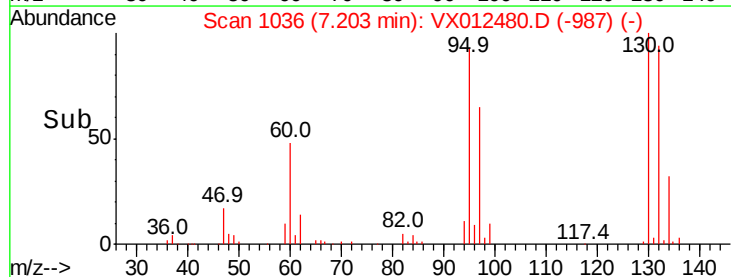
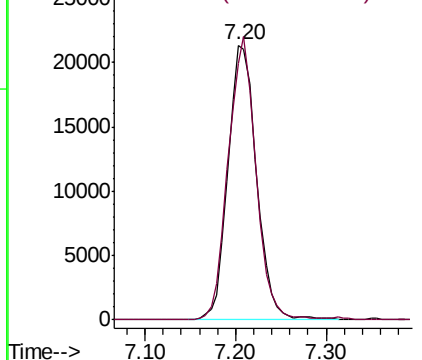


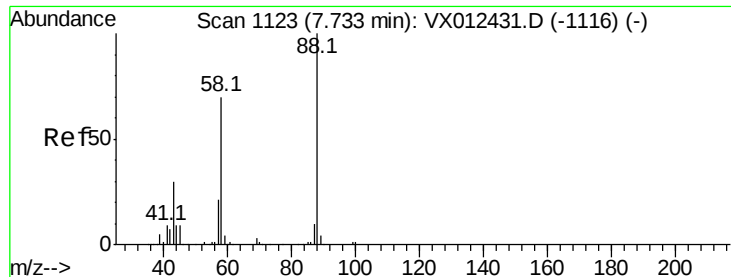
#44
Trichloroethene
Concen: 31.370 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VX012480.D
Acq: 18 Sep 2019 17:44

Tgt Ion:130 Resp: 46792
Ion Ratio Lower Upper
130 100
95 93.3 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.550 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleID :

DUP01-20190909DL

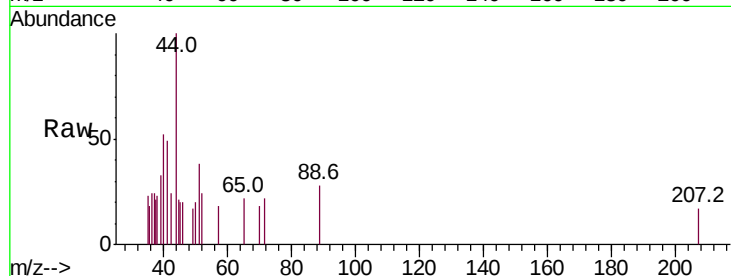
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 435.5 29.4 44.0#

58 0.0 57.5 86.3#



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

250

200

150

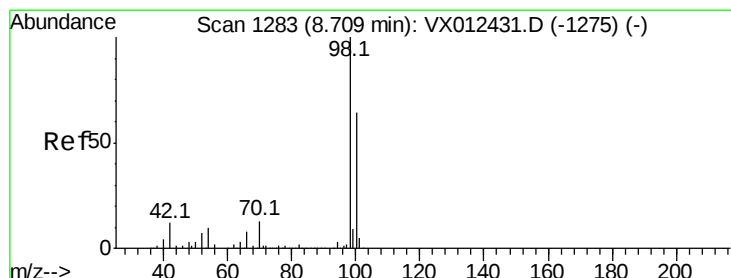
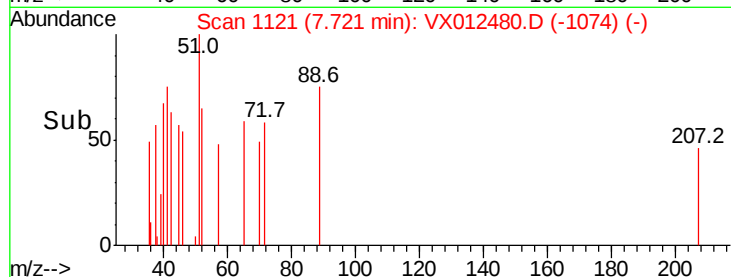
100

50

0

7.70 7.71 7.72 7.73 7.74

Time-->



#50

Toluene-d8

Concen: 51.111 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012480.D

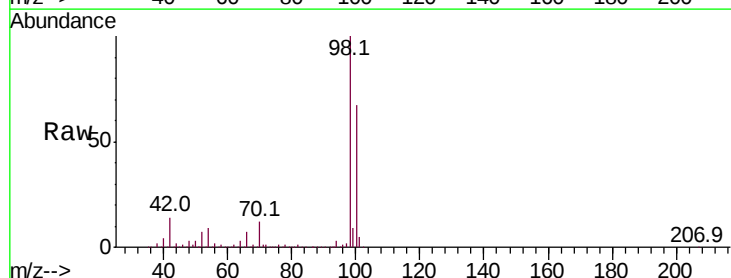
Acq: 18 Sep 2019 17:44

Tgt Ion: 98 Resp: 335959

Ion Ratio Lower Upper

98 100

100 66.8 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

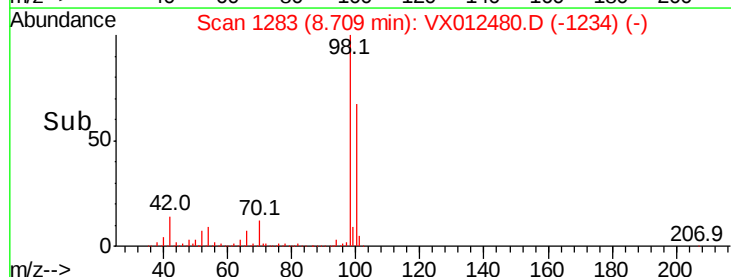
100000

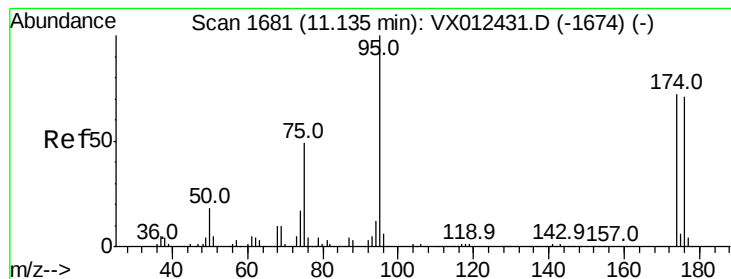
50000

0

8.60 8.70 8.80

Time-->





#62

4-Bromofluorobenzene

Concen: 43.651 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20190909DL

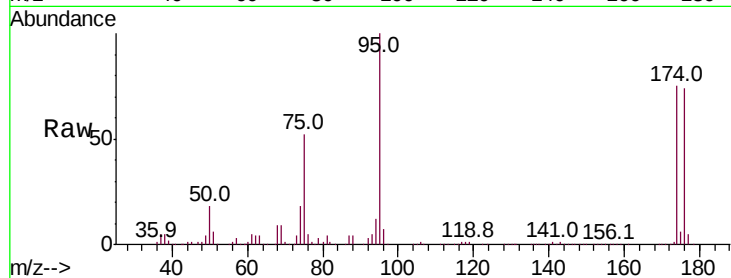
Tot Ion: 95 Resp: 119134

Ion Ratio Lower Upper

95 100

174 72.2 0.0 140.0

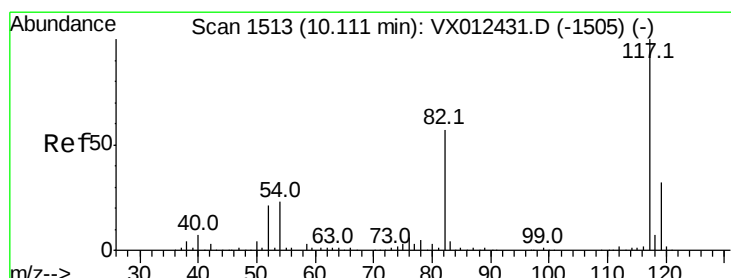
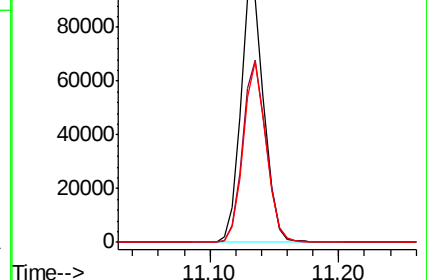
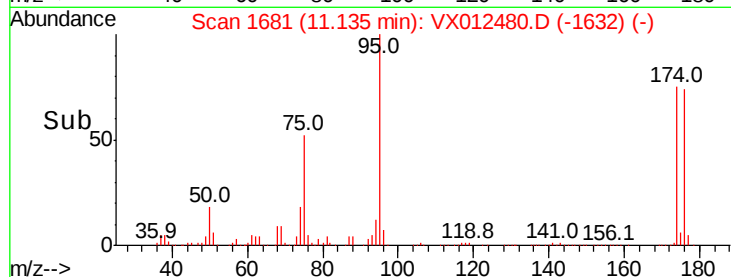
176 69.5 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012480.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012480.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012480.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

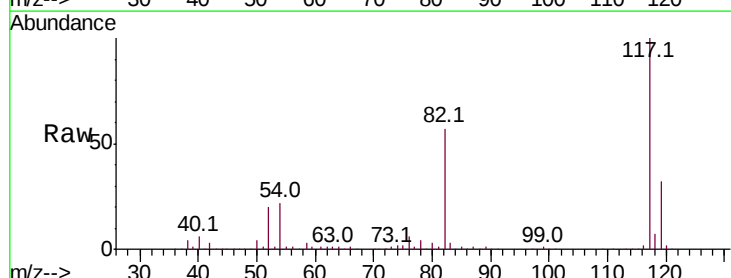
Tgt Ion: 117 Resp: 245846

Ion Ratio Lower Upper

117 100

82 57.0 45.9 68.9

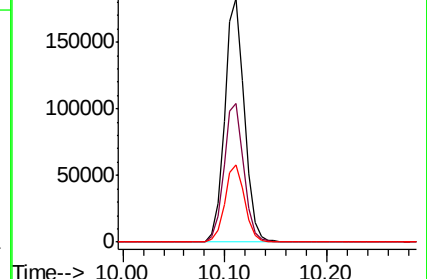
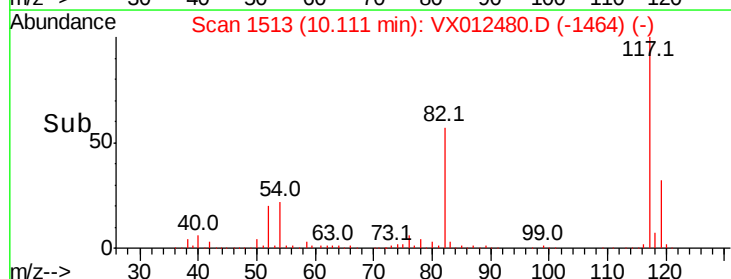
119 31.9 25.3 37.9

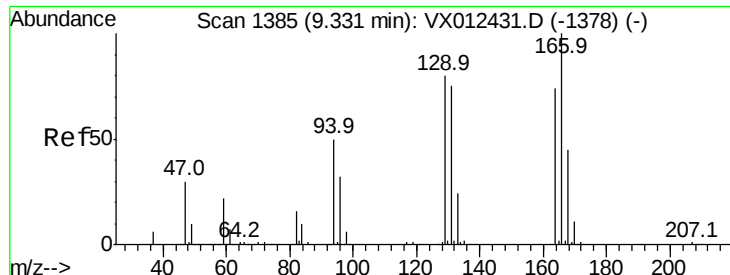


Abundance Ion 116.90 (116.60 to 117.60): VX012480.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012480.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012480.D (-1464) (-)





#64

Tetrachloroethene

Concen: 0.202 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20190909DL

Tot Ion:164 Resp: 228

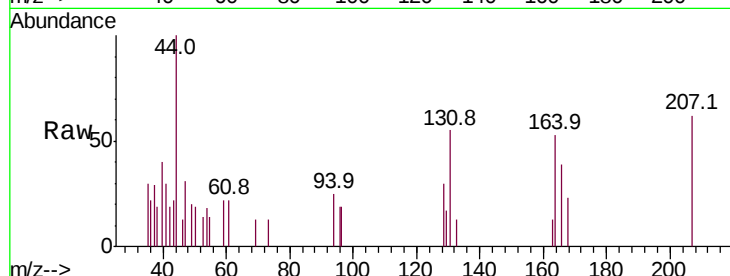
Ion Ratio Lower Upper

164 100

166 74.0 107.8 161.6#

129 57.7 86.2 129.2#

131 103.7 80.4 120.6



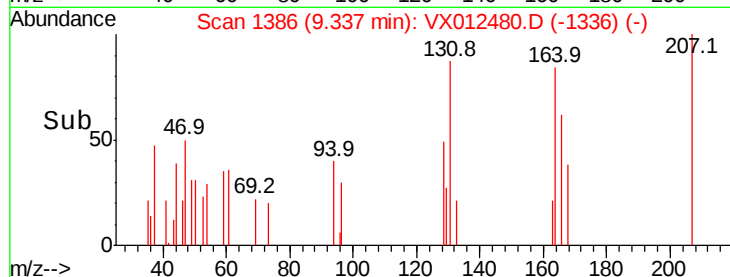
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

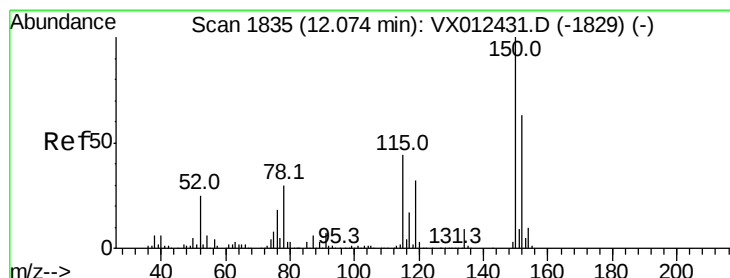
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

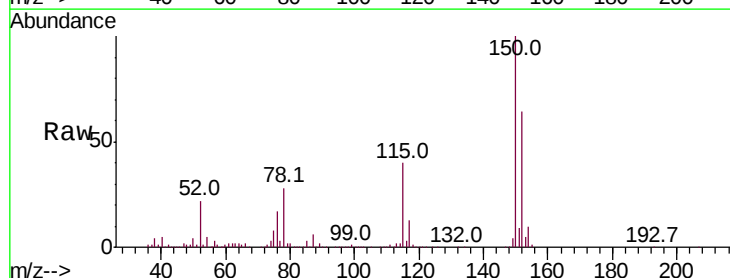
Tgt Ion:152 Resp: 98681

Ion Ratio Lower Upper

152 100

115 63.9 44.1 132.3

150 157.2 0.0 343.8

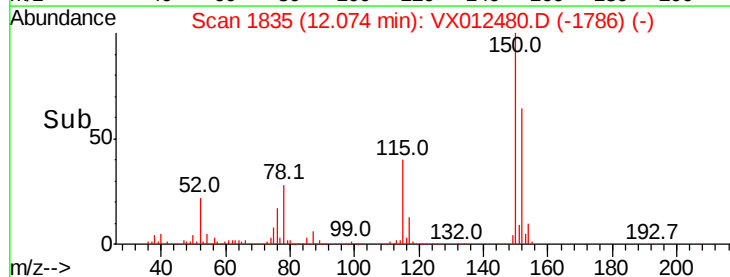


Abundance Ion 151.90 (151.60 to 152.60): V

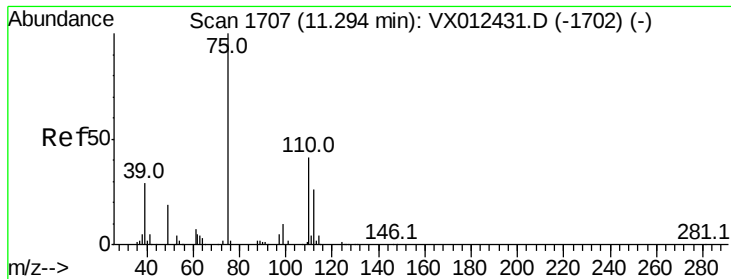
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 27.412 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

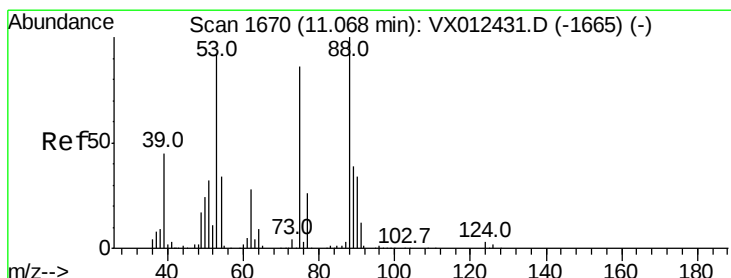
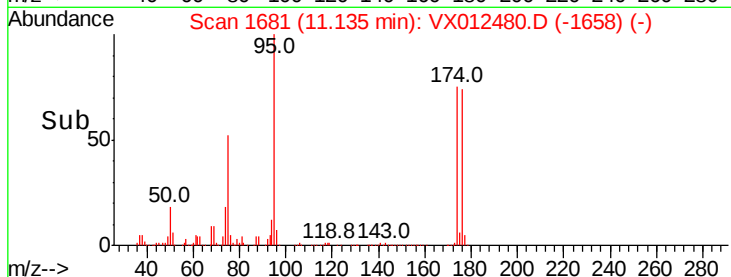
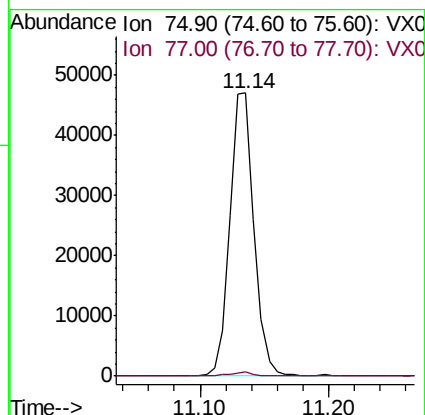
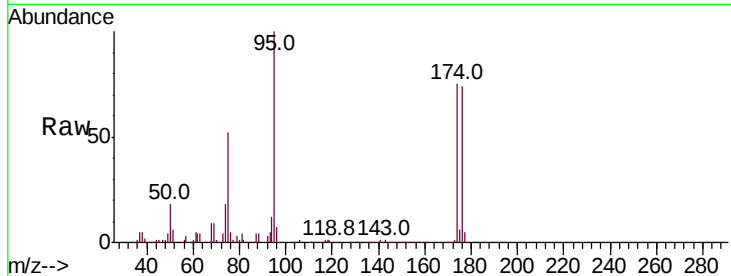
DUP01-20190909DL

Tot Ion: 75 Resp: 62136

Ion Ratio Lower Upper

75 100

77 1.5 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.691 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012480.D

Acq: 18 Sep 2019 17:44

Tgt Ion: 75 Resp: 62136

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

