

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092019\
 Data File : VX012565.D
 Acq On : 20 Sep 2019 18:19
 Operator : JC/SP
 Sample : K4883-03DL 250X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW6-R2-1DL

Quant Time: Sep 21 01:36:56 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	179478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	287692	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	97246	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	120477	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
35) Dibromofluoromethane	5.49	113	85058	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	331977	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	11.14	95	119214	44.55	ug/l	0.00
Spiked Amount			Recovery	=	89.10%	

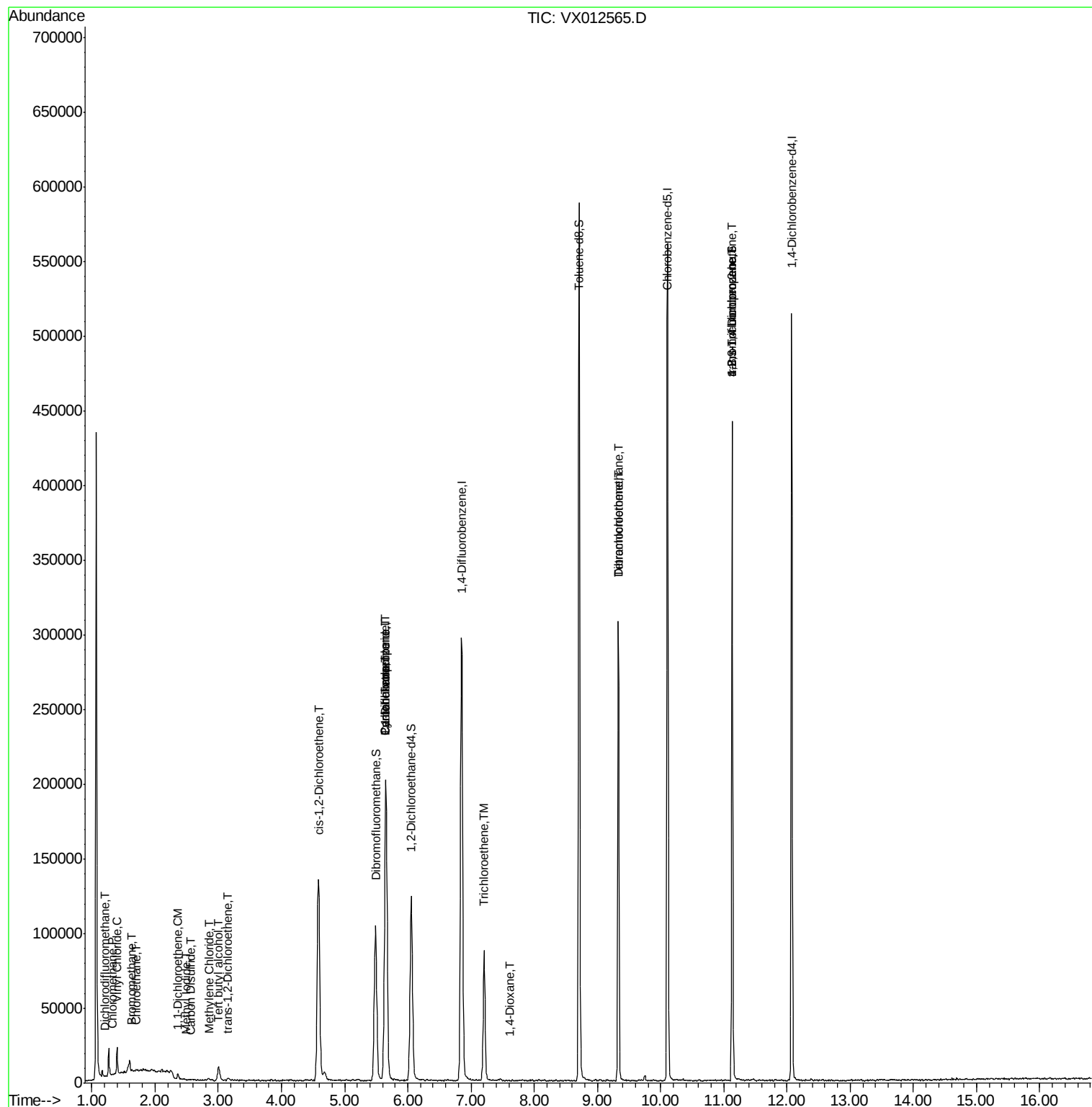
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	69	0.448	ug/l #	43
3) Chloromethane	1.33	50	248	0.251	ug/l #	43
4) Vinyl Chloride	1.40	62	10150	9.517	ug/l	93
5) Bromomethane	1.63	94	305	0.728	ug/l	92
6) Chloroethane	1.69	64	225	0.270	ug/l #	45
10) Methyl Iodide	2.50	142	177	4.575	ug/l #	50
11) Tert butyl alcohol	3.00	59	5446	2.536	ug/l #	79
12) 1,1-Dichloroethene	2.37	96	1047	0.928	ug/l	100
13) Acrolein	2.25	56	46	Below Cal	#	1
16) Acetone	2.44	43	882	Below Cal		98
17) Carbon Disulfide	2.56	76	120	1.879	ug/l #	1
20) Methylene Chloride	2.84	84	392	0.252	ug/l #	84
21) trans-1,2-Dichloroethene	3.15	96	596	0.509	ug/l #	90
27) cis-1,2-Dichloroethene	4.59	96	85092	48.613	ug/l	86
31) Cyclohexane	5.65	56	4536	2.553	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15449	8.836	ug/l #	53
38) Carbon Tetrachloride	5.65	117	19451	8.945	ug/l #	16
44) Trichloroethene	7.21	130	32271	22.064	ug/l	95
49) 1,4-Dioxane	7.61	88	21	0.380	ug/l #	1
60) Dibromochloromethane	9.33	129	56011	29.791	ug/l #	11
64) Tetrachloroethene	9.33	164	55917	50.441	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	61366	27.471	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	61366	73.845	ug/l #	8

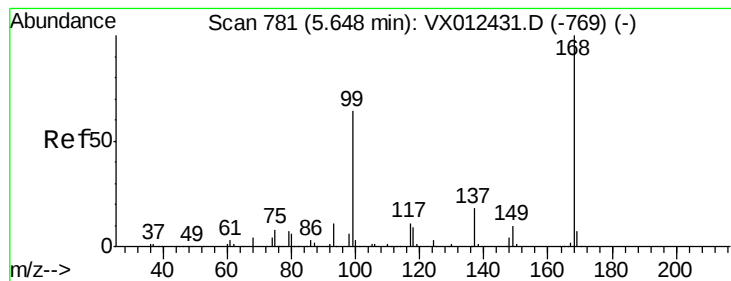
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092019\
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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: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

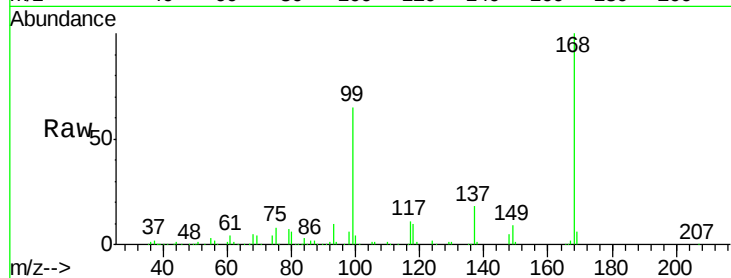
MW6-R2-1DL

Tot Ion:168 Resp: 179478

Ion Ratio Lower Upper

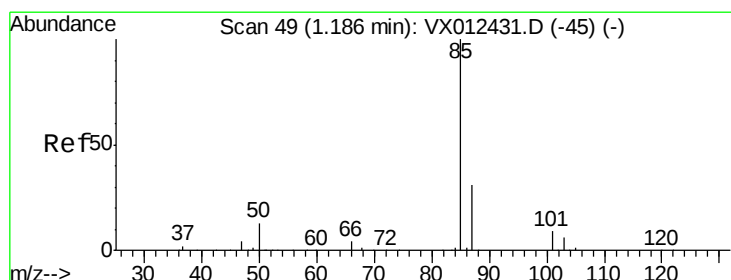
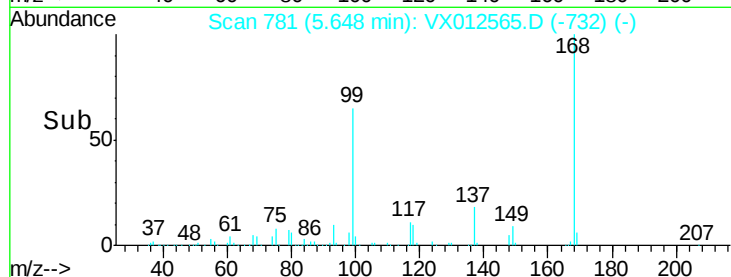
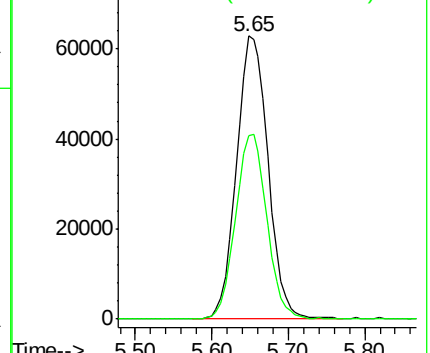
168 100

99 64.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.448 ug/l

RT: 1.20 min Scan# 52

Delta R.T. 0.02 min

Lab File: VX012565.D

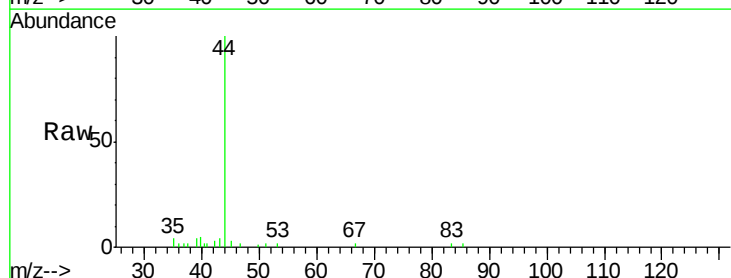
Acq: 20 Sep 2019 18:19

Tgt Ion: 85 Resp: 69

Ion Ratio Lower Upper

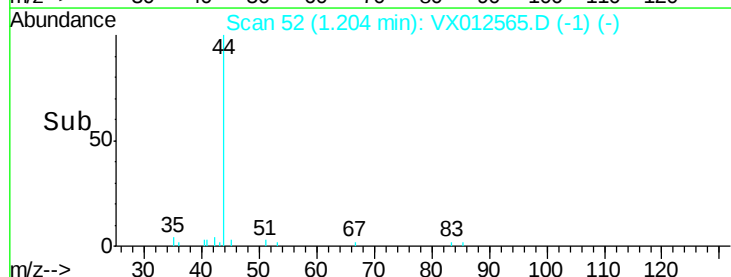
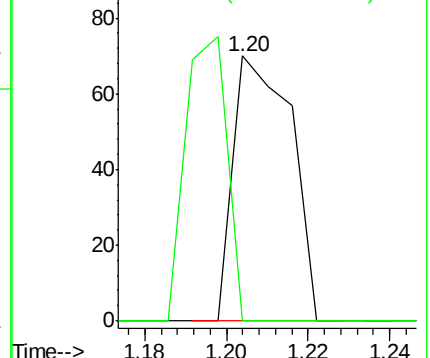
85 100

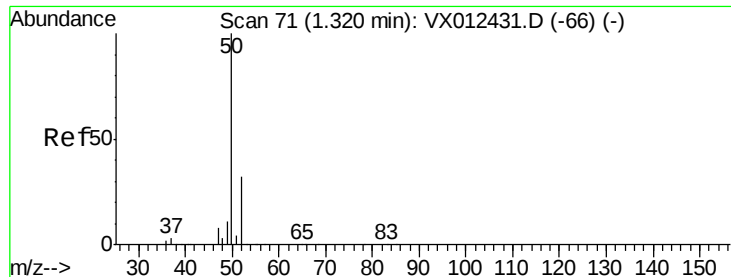
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.251 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

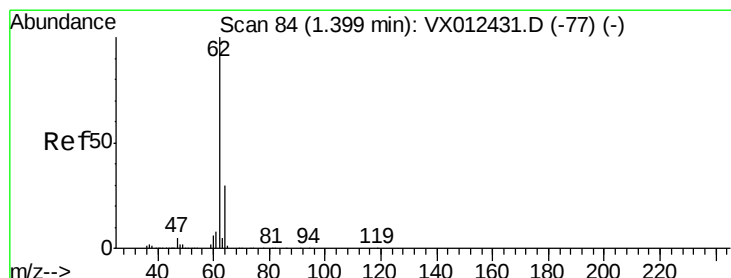
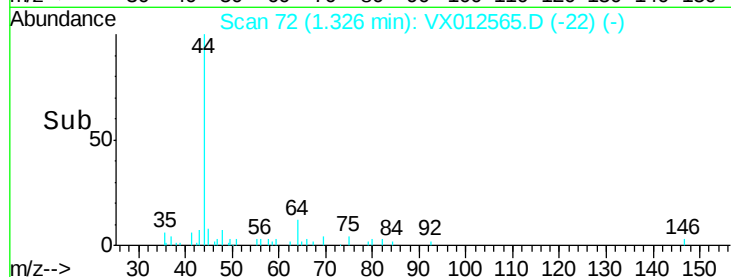
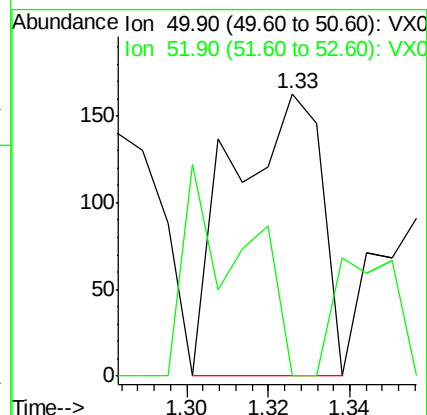
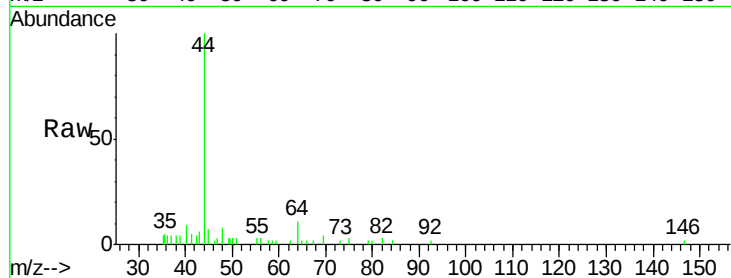
MW6-R2-1DL

Tot Ion: 50 Resp: 248

Ion Ratio Lower Upper

50 100

52 0.0 25.7 38.5#



#4

Vinyl Chloride

Concen: 9.517 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012565.D

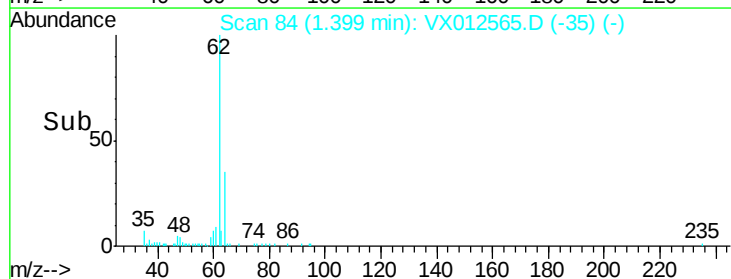
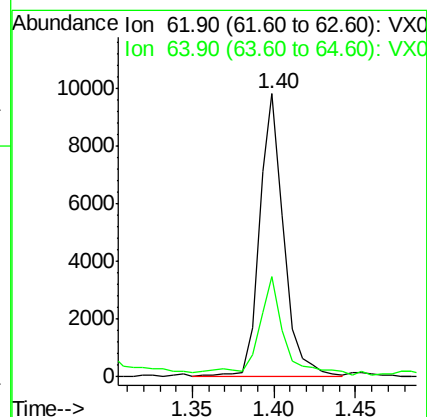
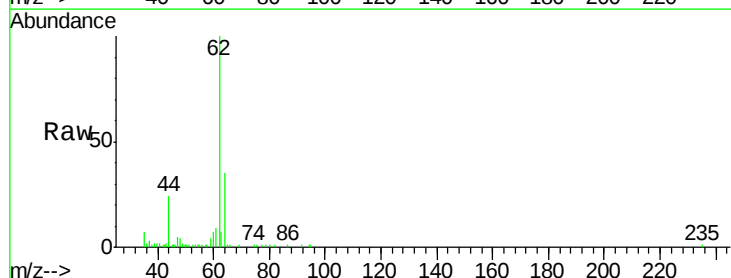
Acq: 20 Sep 2019 18:19

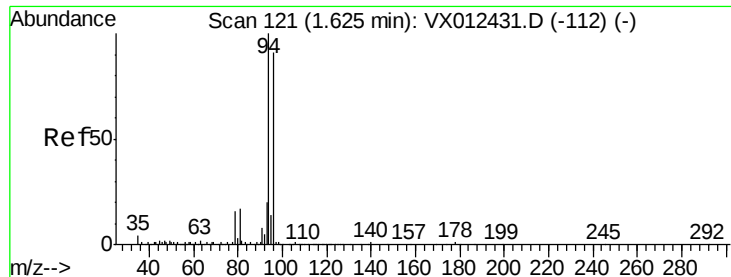
Tgt Ion: 62 Resp: 10150

Ion Ratio Lower Upper

62 100

64 33.9 24.2 36.2





#5

Bromomethane

Concen: 0.728 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampled :

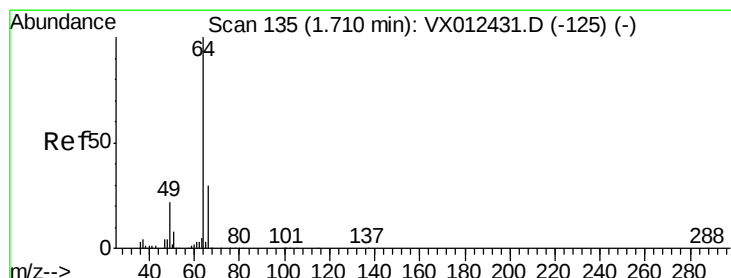
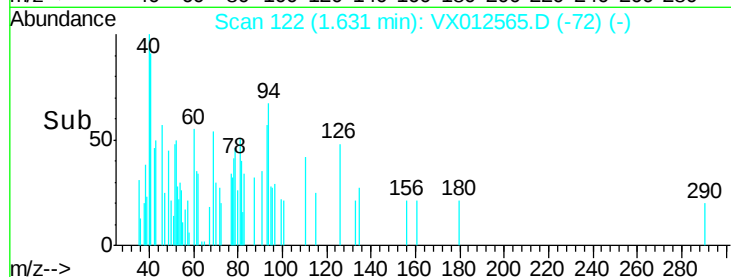
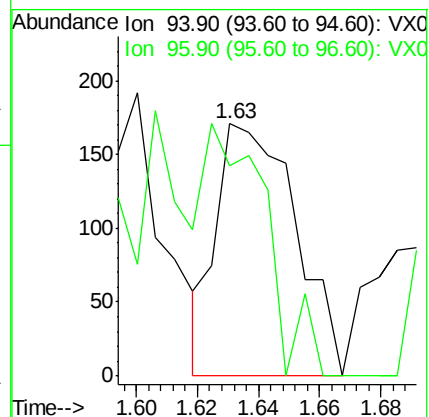
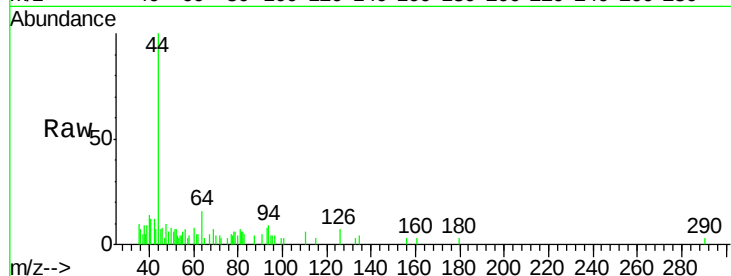
MW6-R2-1DL

Tot Ion: 94 Resp: 305

Ion Ratio Lower Upper

94 100

96 83.0 72.8 109.2



#6

Chloroethane

Concen: 0.270 ug/l

RT: 1.69 min Scan# 132

Delta R.T. -0.02 min

Lab File: VX012565.D

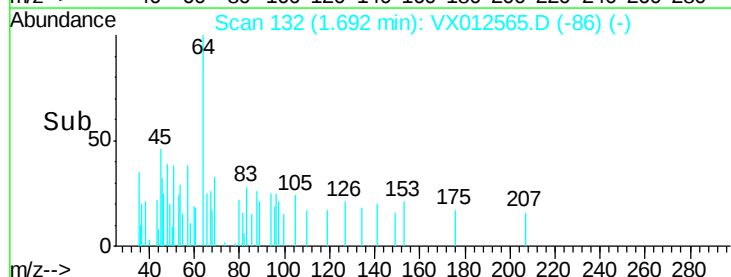
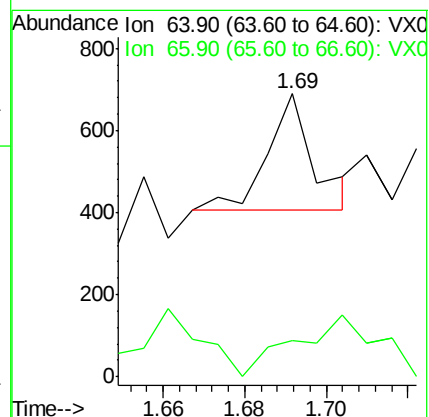
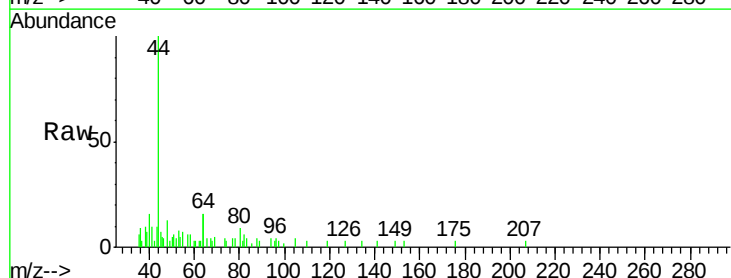
Acq: 20 Sep 2019 18:19

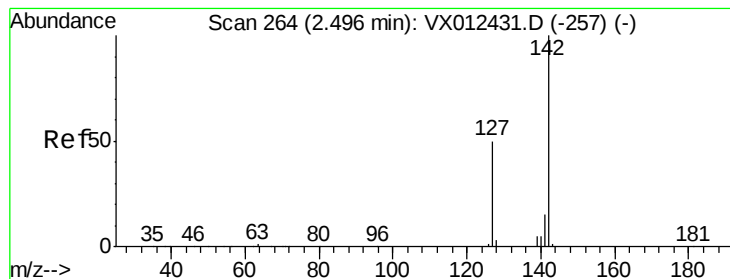
Tgt Ion: 64 Resp: 225

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#





#10

Methvl Iodide

Concen: 4.575 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

MW6-R2-1DL

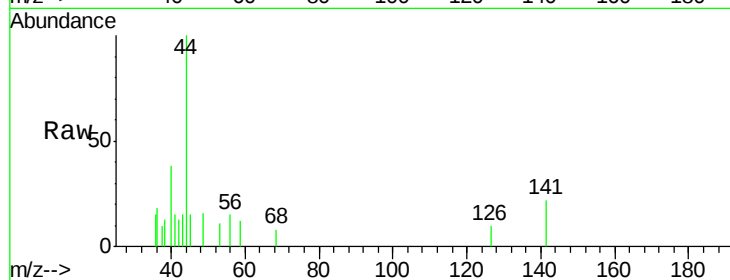
Tot Ion:142 Resp: 177

Ion Ratio Lower Upper

142 100

127 13.0 40.8 61.2#

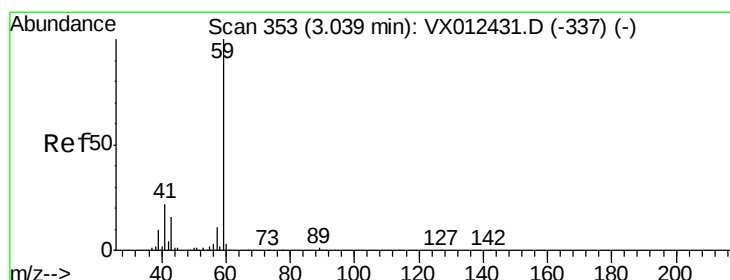
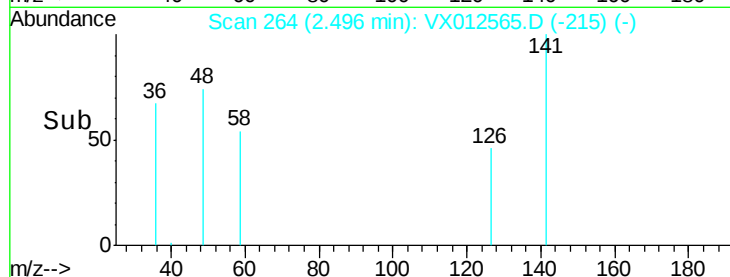
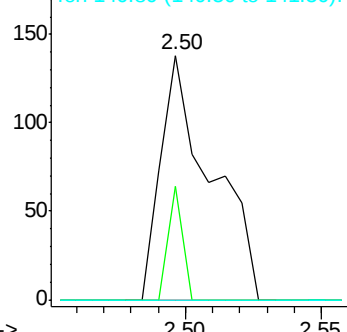
141 0.0 12.1 18.1#



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: 2.536 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

Lab File: VX012565.D

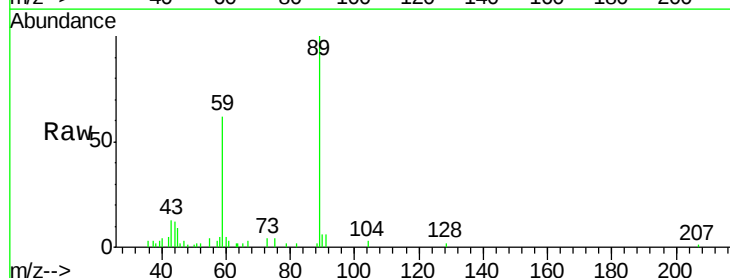
Acq: 20 Sep 2019 18:19

Tgt Ion: 59 Resp: 5446

Ion Ratio Lower Upper

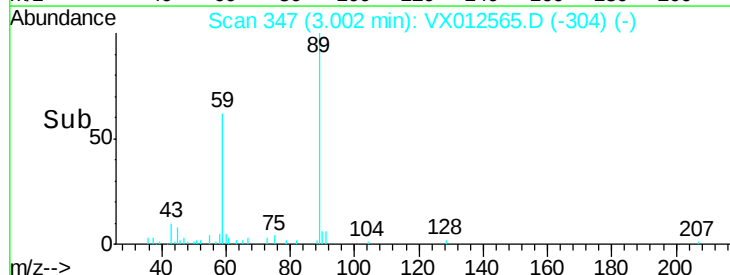
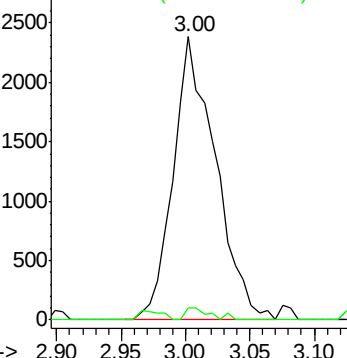
59 100

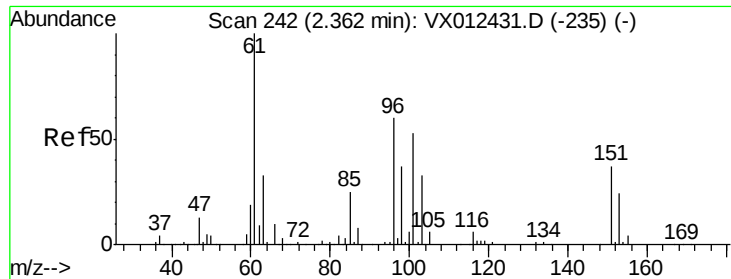
57 2.4 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.928 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampled :

MW6-R2-1DL

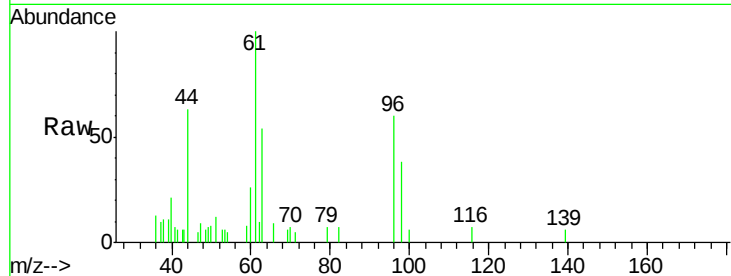
Tot Ion: 96 Resp: 1047

Ion Ratio Lower Upper

96 100

61 167.0 133.8 200.6

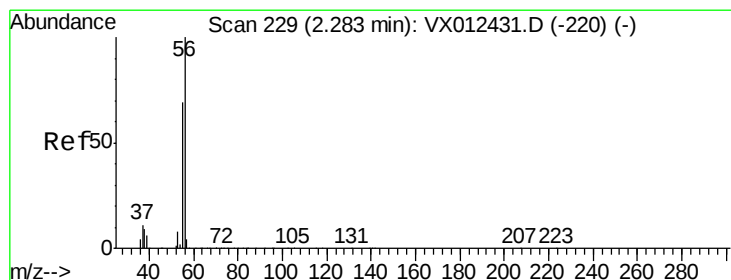
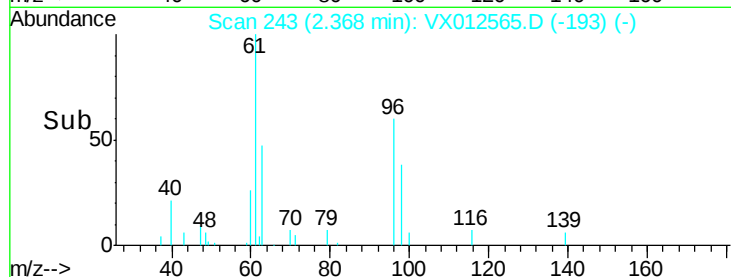
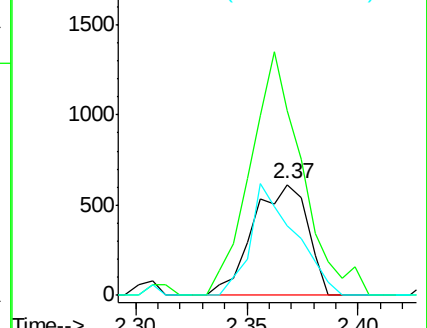
98 62.8 49.9 74.9



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.25 min Scan# 223

Delta R.T. -0.04 min

Lab File: VX012565.D

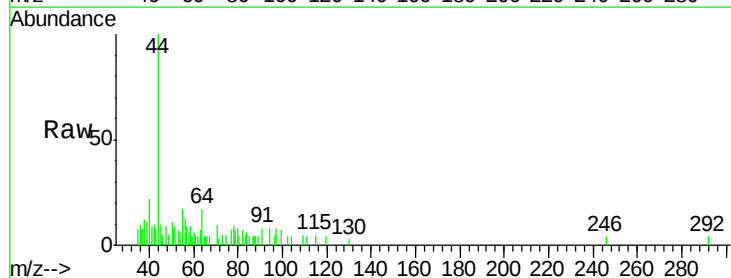
Acq: 20 Sep 2019 18:19

Tgt Ion: 56 Resp: 46

Ion Ratio Lower Upper

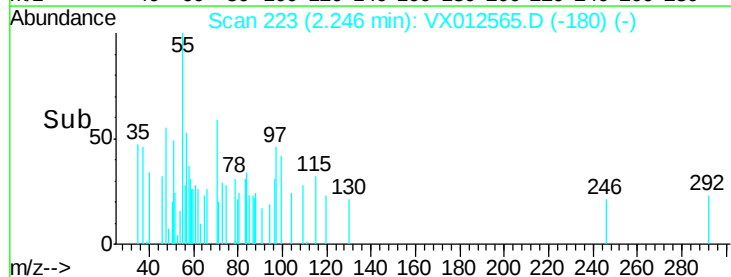
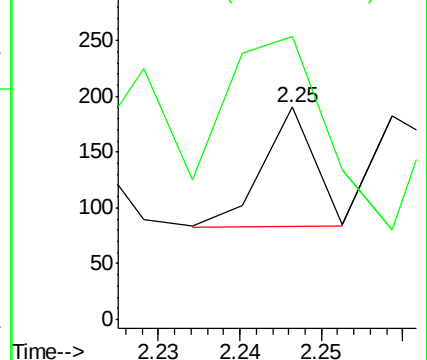
56 100

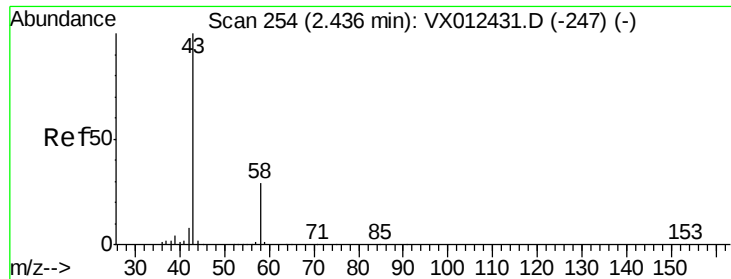
55 432.6 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

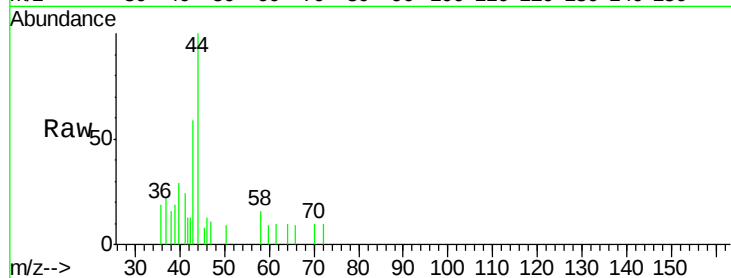
MW6-R2-1DL

Tot Ion: 43 Resp: 882

Ion Ratio Lower Upper

43 100

58 27.8 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

300

200

100

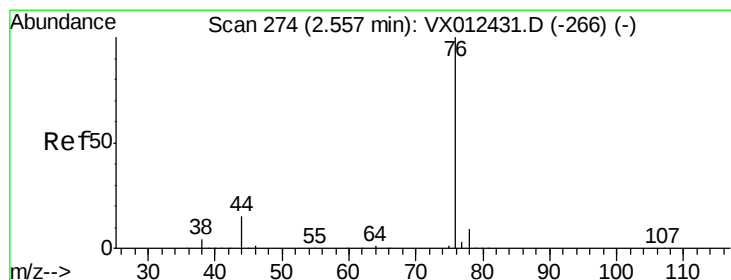
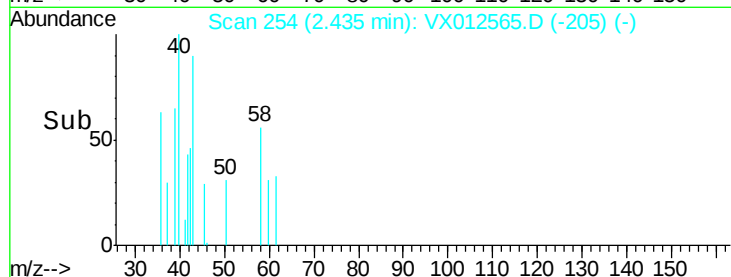
0

2.35

2.40

2.45

Time-->



#17

Carbon Disulfide

Concen: 1.879 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012565.D

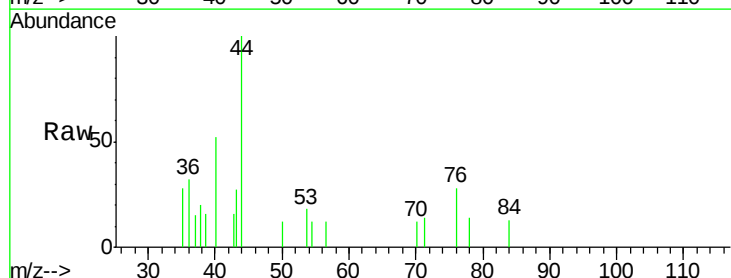
Acq: 20 Sep 2019 18:19

Tgt Ion: 76 Resp: 120

Ion Ratio Lower Upper

76 100

78 50.8 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

150

100

50

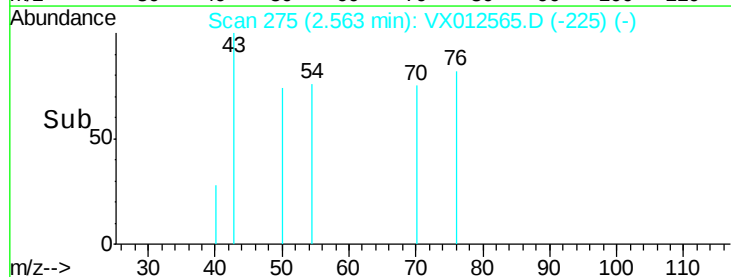
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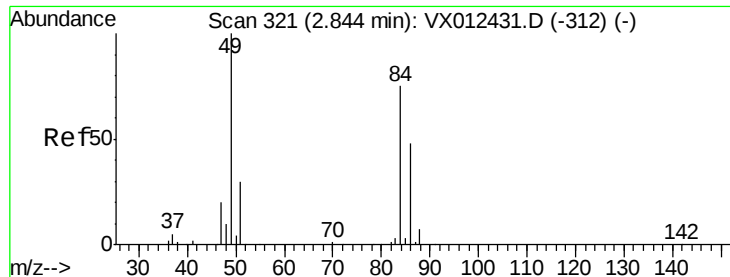
2.54

2.56

2.58

Time-->

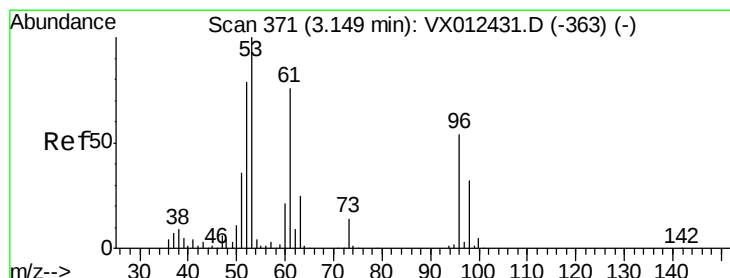
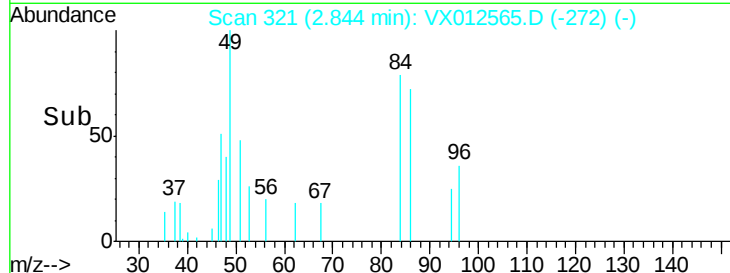
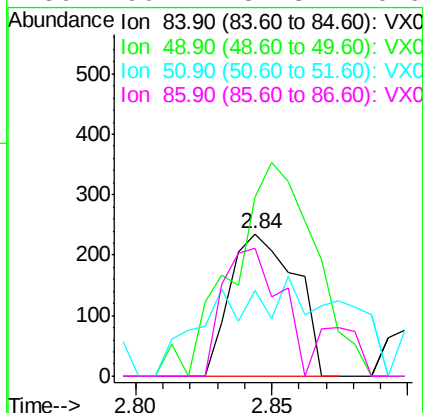
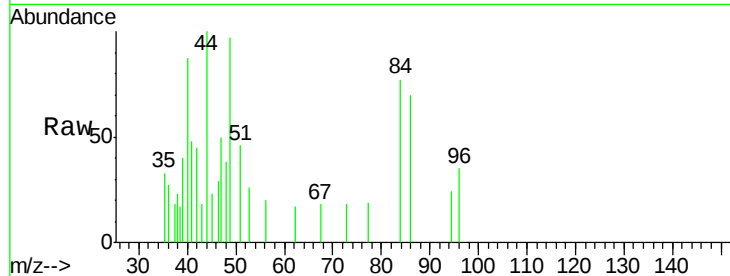




#20
Methvlene Chloride
Concen: 0.252 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012565.D
Acq: 20 Sep 2019 18:19

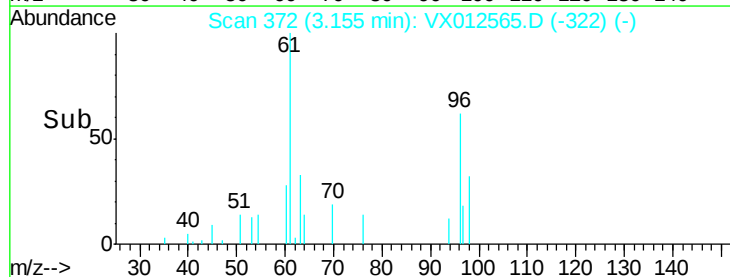
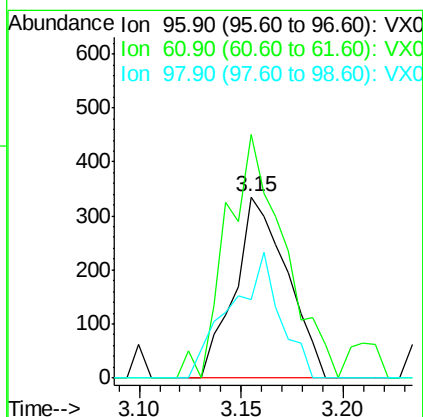
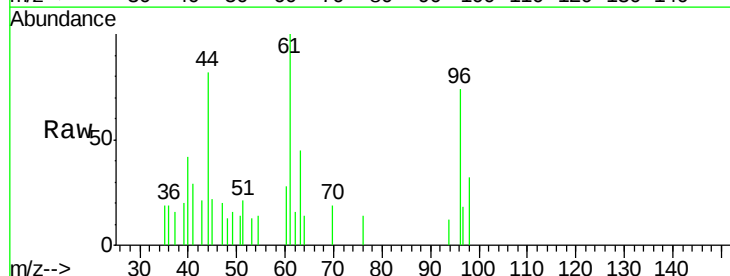
Instrument :
MSVOA_X
ClientSampled :
MW6-R2-1DL

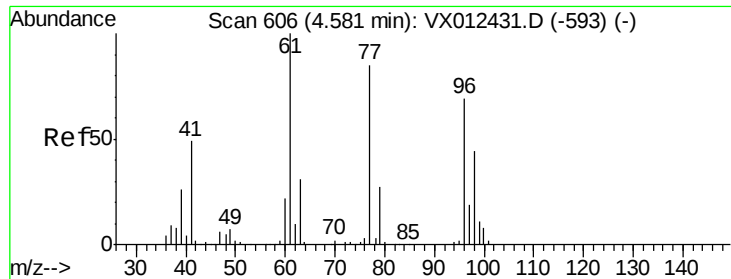
Tot Ion: 84 Resp: 392
Ion Ratio Lower Upper
84 100
49 126.0 106.8 160.2
51 28.1 32.3 48.5#
86 90.2 51.3 76.9#



#21
trans-1,2-Dichloroethene
Concen: 0.509 ug/l
RT: 3.15 min Scan# 372
Delta R.T. 0.01 min
Lab File: VX012565.D
Acq: 20 Sep 2019 18:19

Tgt Ion: 96 Resp: 596
Ion Ratio Lower Upper
96 100
61 134.6 112.0 168.0
98 43.0 47.8 71.8#



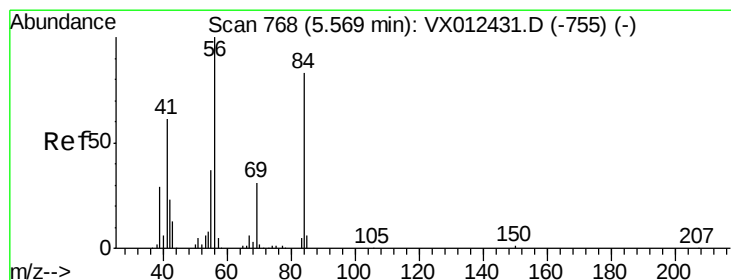
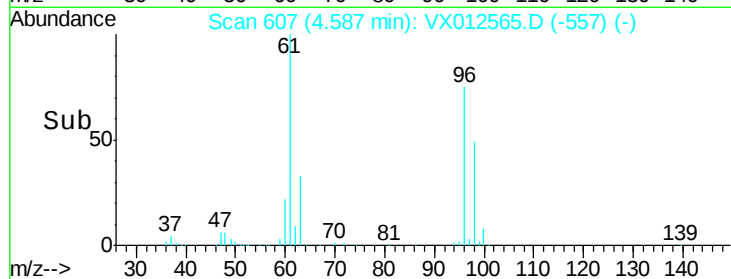
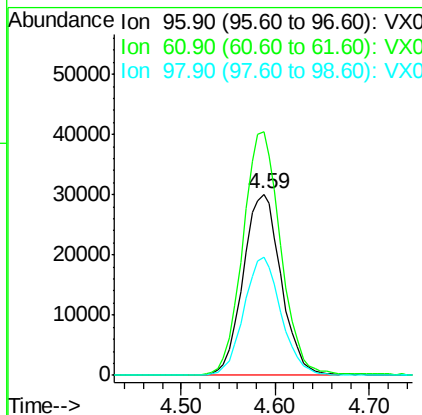
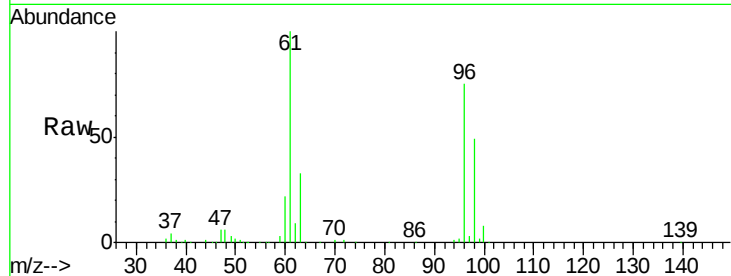


#27

cis-1,2-Dichloroethene
 Concen: 48.613 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012565.D
 Acq: 20 Sep 2019 18:19

Instrument :
 MSVOA_X
 ClientSampled :
 MW6-R2-1DL

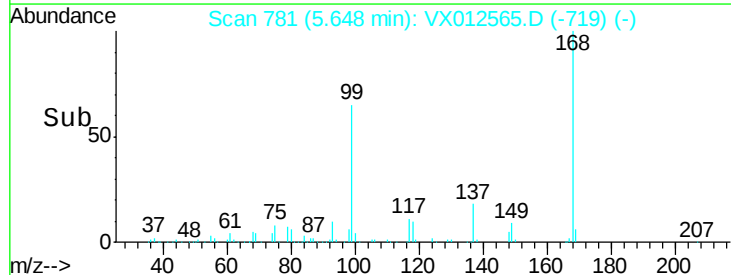
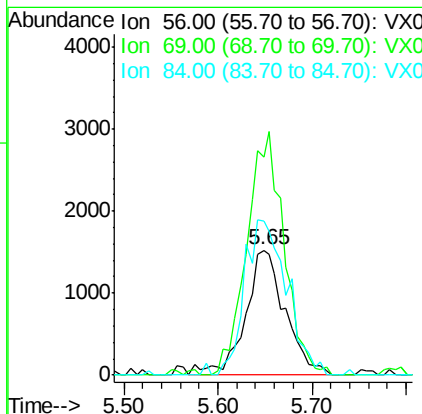
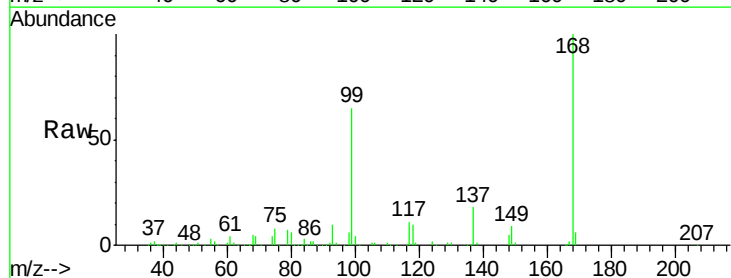
Tot Ion: 96 Resp: 85092
 Ion Ratio Lower Upper
 96 100
 61 134.1 0.0 319.4
 98 64.1 0.0 130.6

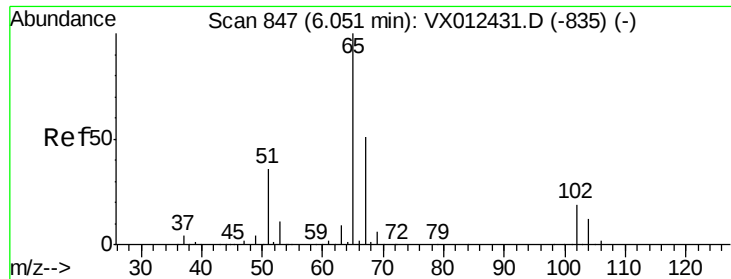


#31

Cyclohexane
 Concen: 2.553 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.08 min
 Lab File: VX012565.D
 Acq: 20 Sep 2019 18:19

Tgt Ion: 56 Resp: 4536
 Ion Ratio Lower Upper
 56 100
 69 174.4 25.0 37.6#
 84 123.4 66.4 99.6#

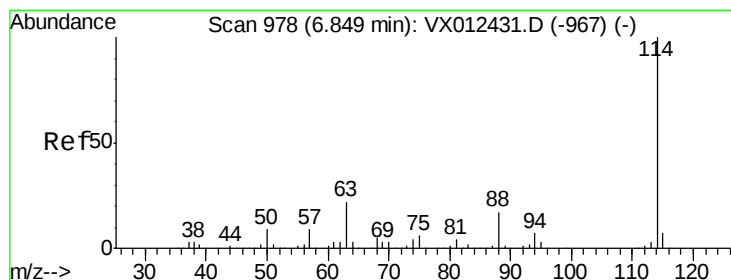
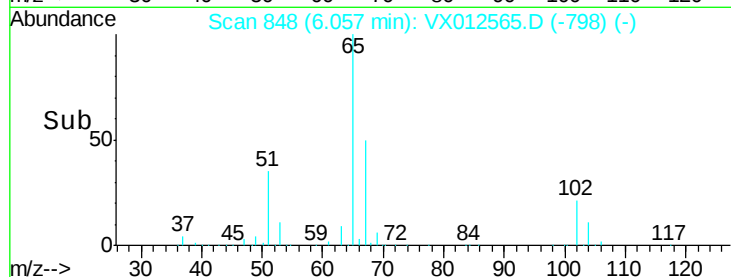
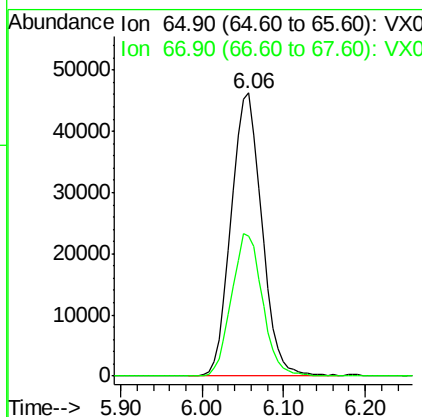
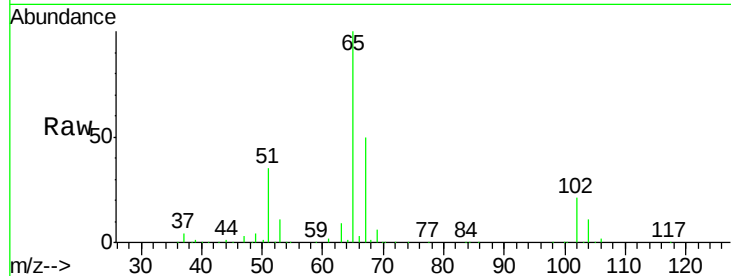




#33
 1,2-Dichloroethane-d4
 Concen: 46.837 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX012565.D
 Acq: 20 Sep 2019 18:19

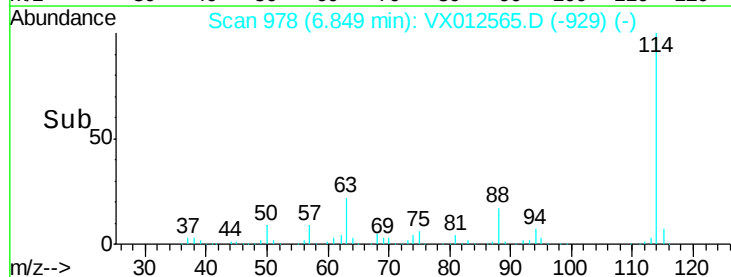
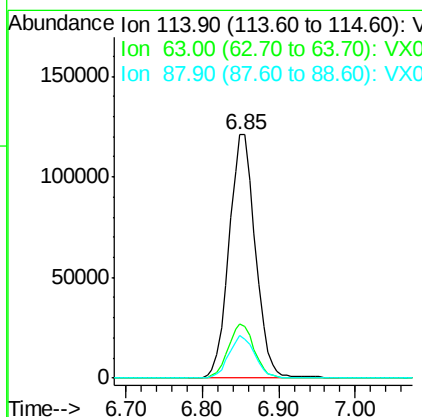
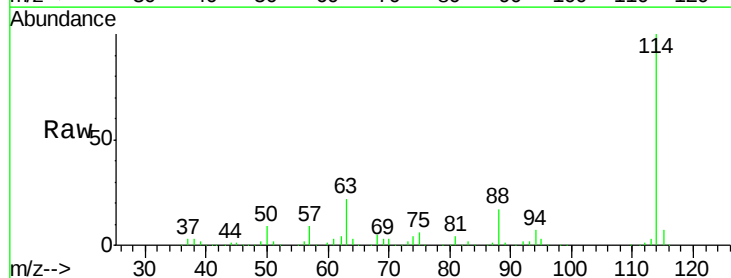
Instrument :
 MSVOA_X
 ClientSampled :
 MW6-R2-1DL

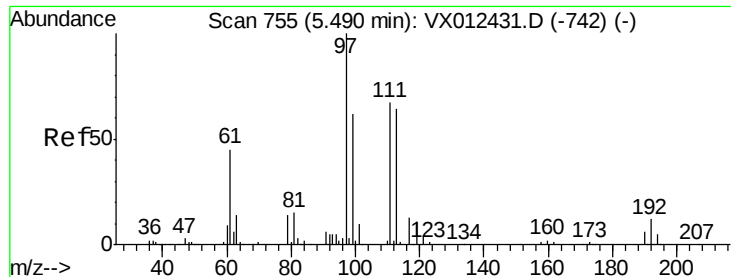
Tot Ion: 65 Resp: 120477
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012565.D
 Acq: 20 Sep 2019 18:19

Tgt Ion: 114 Resp: 287692
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.2
 88 17.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.848 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

MW6-R2-1DL

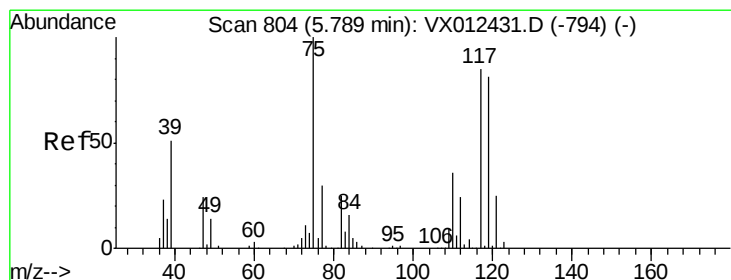
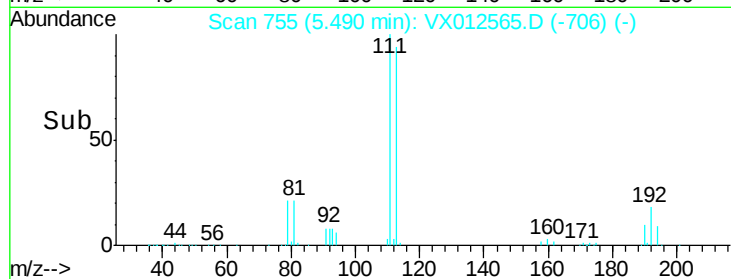
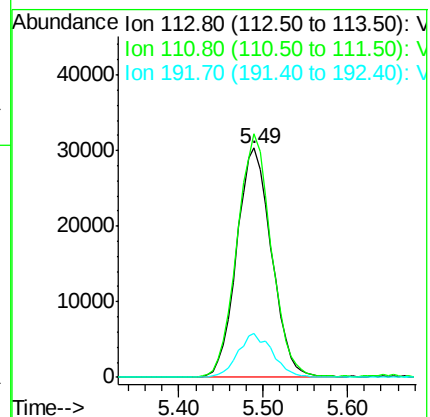
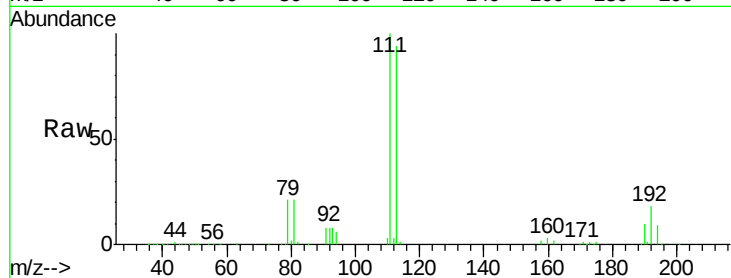
Tot Ion:113 Resp: 85058

Ion Ratio Lower Upper

113 100

111 104.5 83.4 125.2

192 19.1 14.4 21.6



#36

1,1-Dichloropropene

Concen: 8.836 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

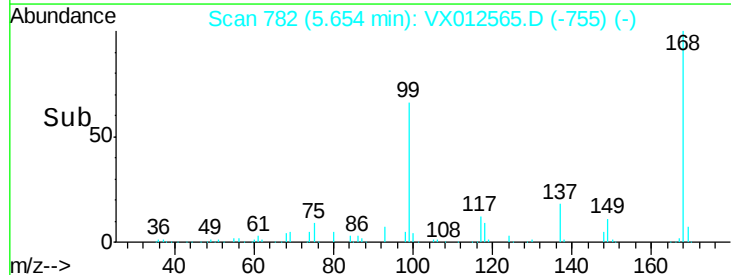
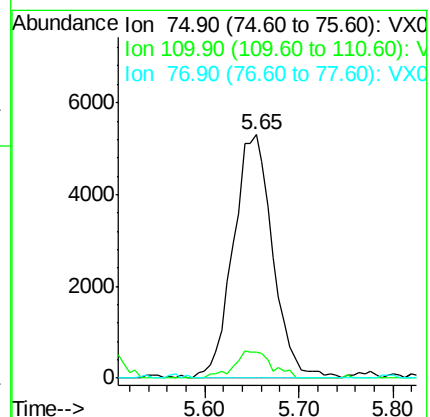
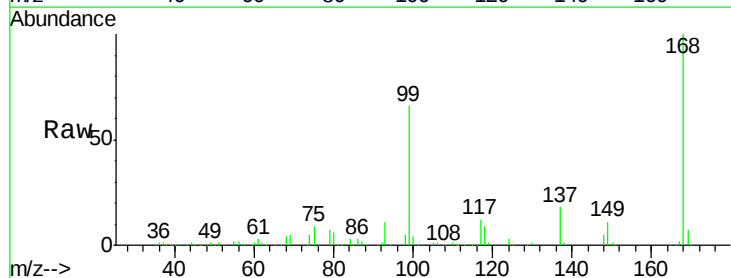
Tgt Ion: 75 Resp: 15449

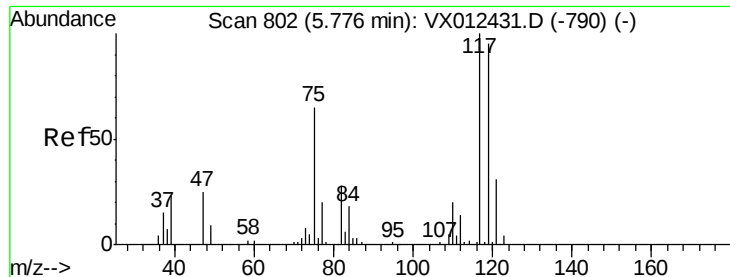
Ion Ratio Lower Upper

75 100

110 10.5 16.7 50.0#

77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 8.945 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

MW6-R2-1DL

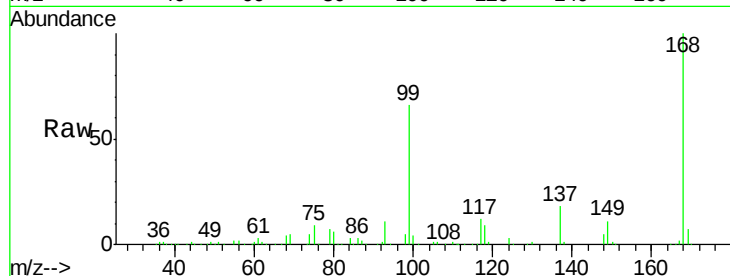
Tot Ion:117 Resp: 19451

Ion Ratio Lower Upper

117 100

119 4.5 75.7 113.5#

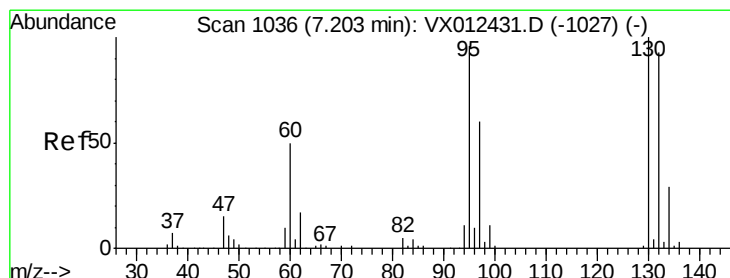
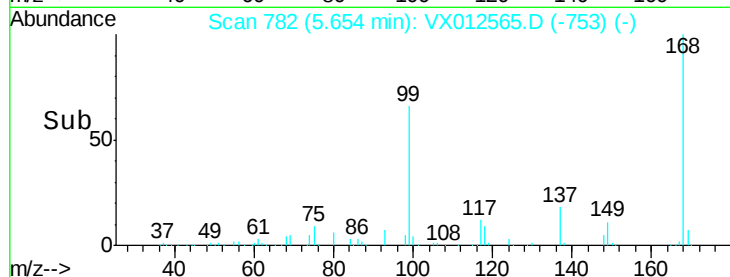
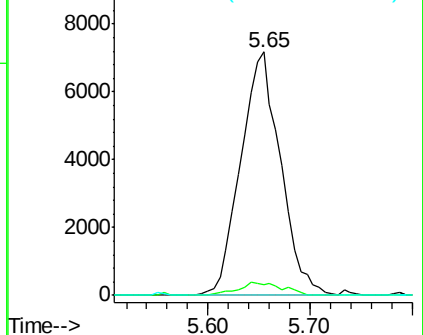
121 0.0 24.2 36.4#



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



#44

Trichloroethene

Concen: 22.064 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012565.D

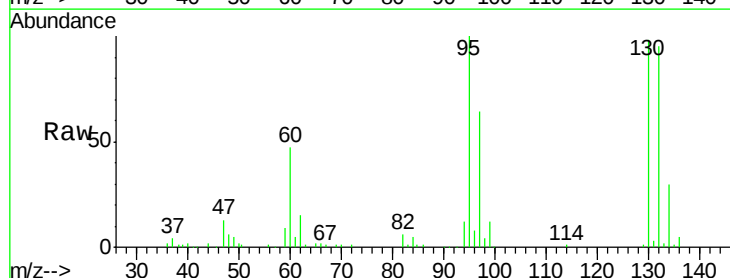
Acq: 20 Sep 2019 18:19

Tgt Ion:130 Resp: 32271

Ion Ratio Lower Upper

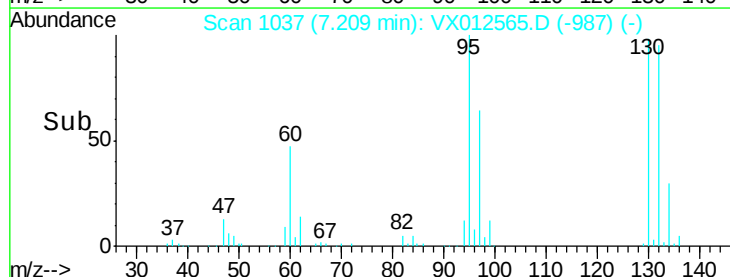
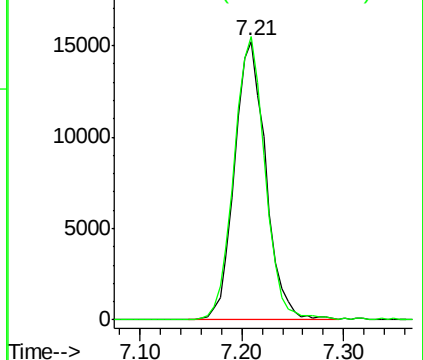
130 100

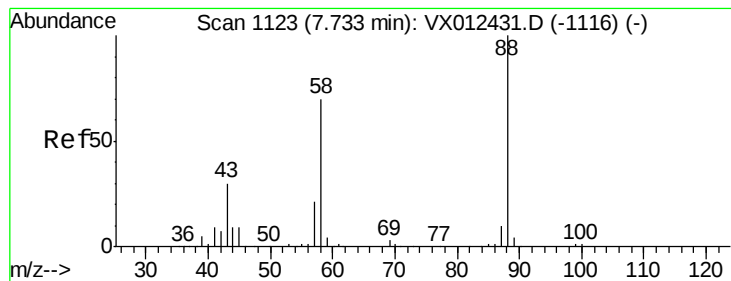
95 101.6 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.380 ug/l

RT: 7.61 min Scan# 1102

Delta R.T. -0.13 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampled :

MW6-R2-1DL

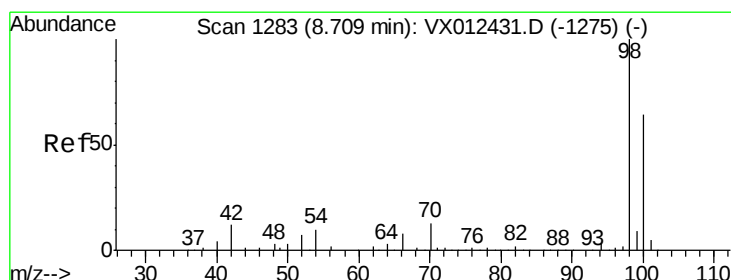
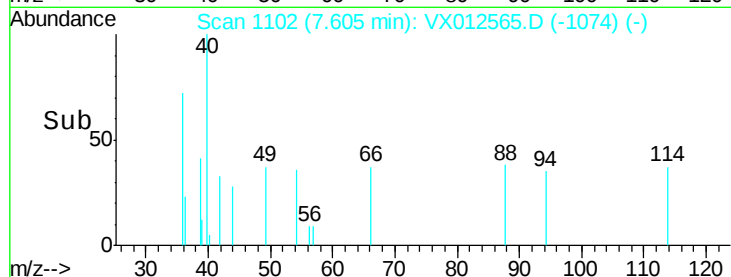
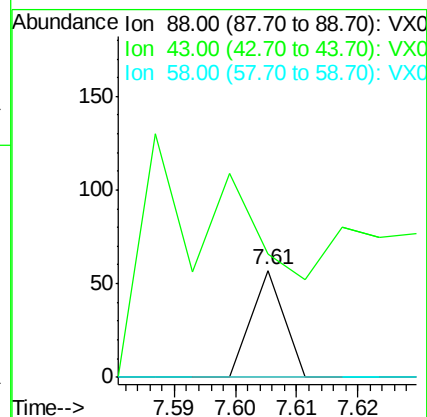
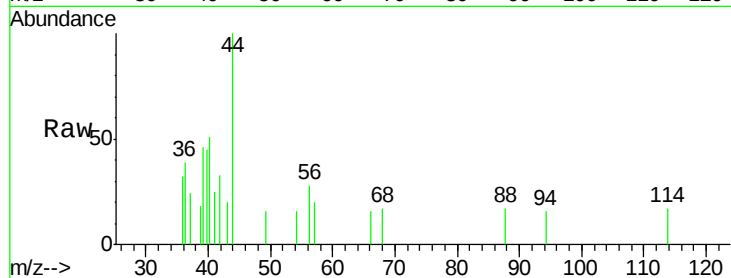
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 809.5 29.4 44.0#

58 0.0 57.5 86.3#



#50

Toluene-d8

Concen: 51.507 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012565.D

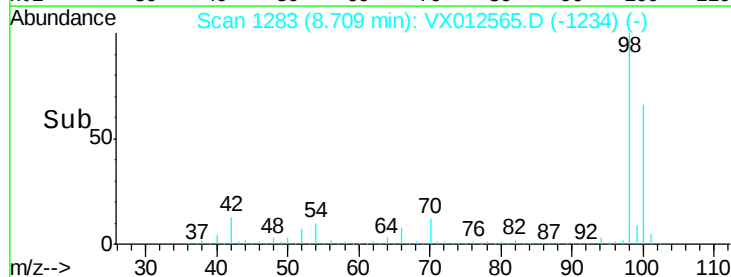
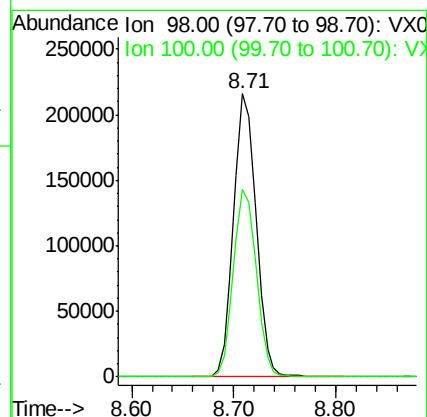
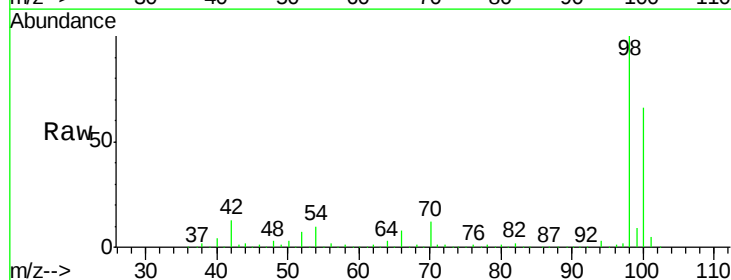
Acq: 20 Sep 2019 18:19

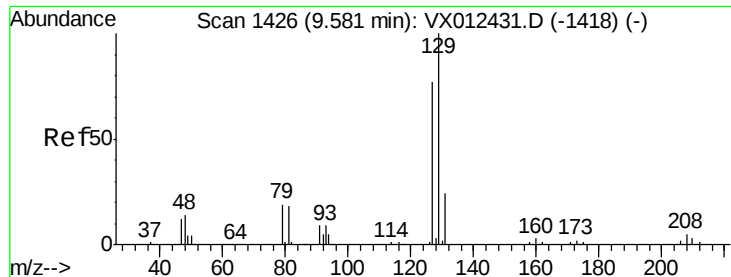
Tgt Ion: 98 Resp: 331977

Ion Ratio Lower Upper

98 100

100 67.3 53.4 80.2

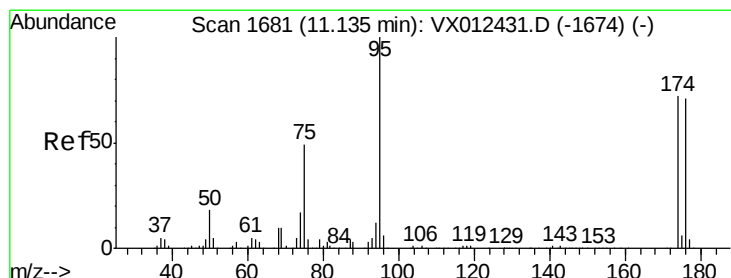
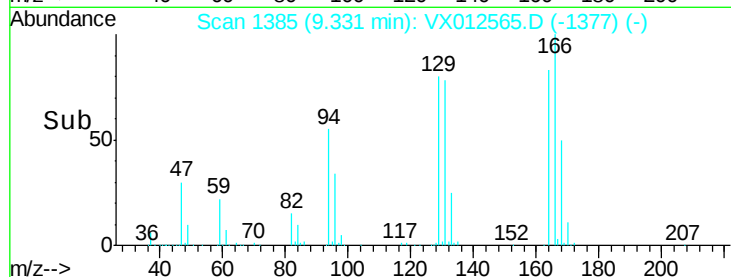
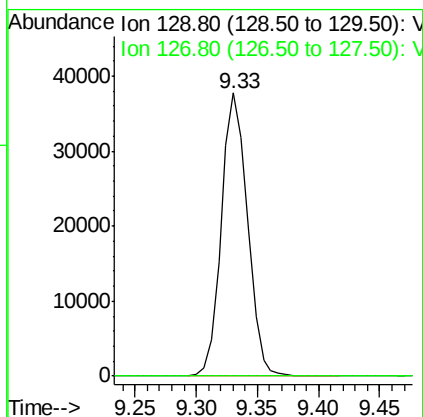
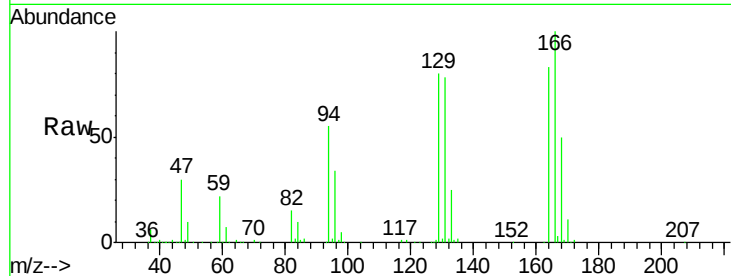




#60
 Dibromochloromethane
 Concen: 29.791 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.25 min
 Lab File: VX012565.D
 Acq: 20 Sep 2019 18:19

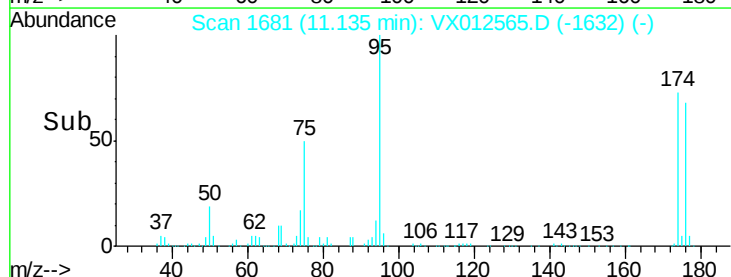
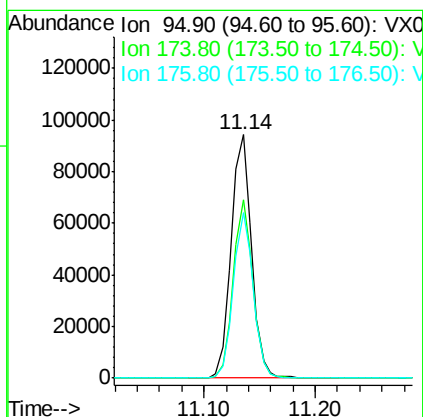
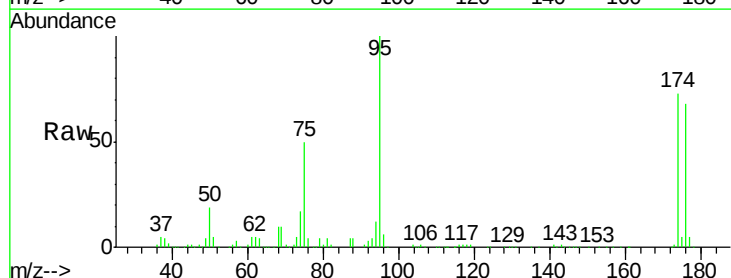
Instrument :
 MSVOA_X
 ClientSampleId :
 MW6-R2-1DL

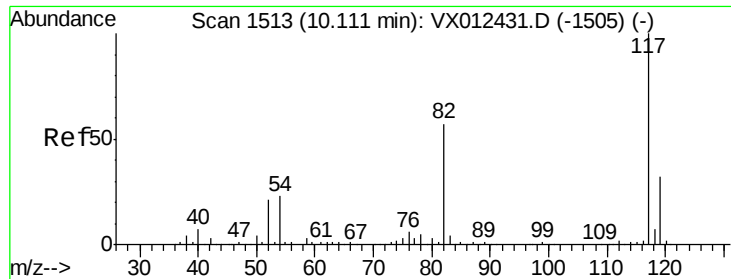
Tot Ion:129 Resp: 56011
 Ion Ratio Lower Upper
 129 100
 127 0.2 38.9 116.6#



#62
 4-Bromofluorobenzene
 Concen: 44.547 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VX012565.D
 Acq: 20 Sep 2019 18:19

Tgt Ion: 95 Resp: 119214
 Ion Ratio Lower Upper
 95 100
 174 70.9 0.0 140.0
 176 66.5 0.0 135.4

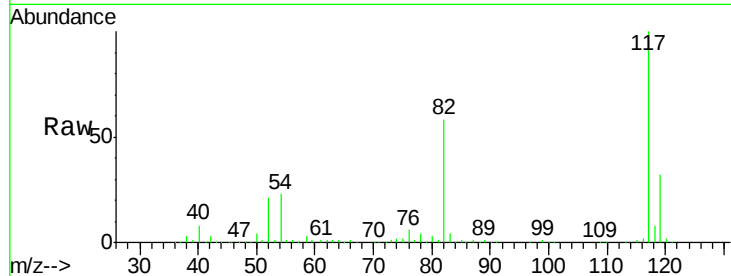




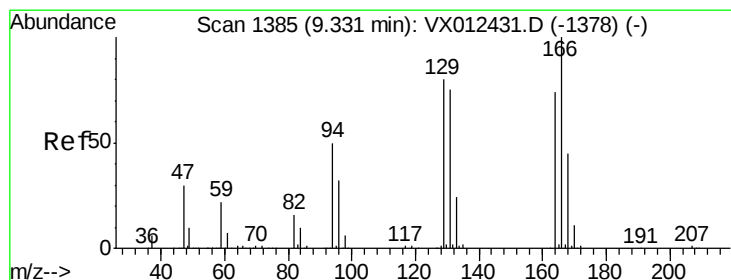
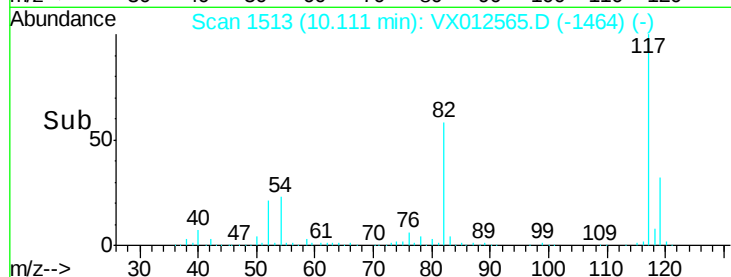
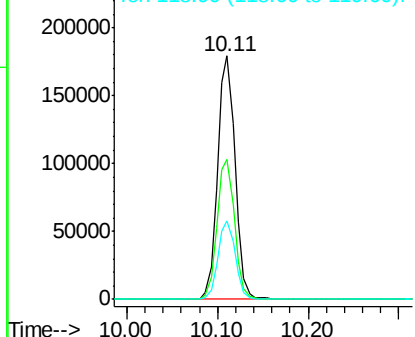
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012565.D
Acq: 20 Sep 2019 18:19

Instrument :
MSVOA_X
ClientSampleId :
MW6-R2-1DL

Tot Ion:117 Resp: 241917
Ion Ratio Lower Upper
117 100
82 57.6 45.9 68.9
119 32.0 25.3 37.9



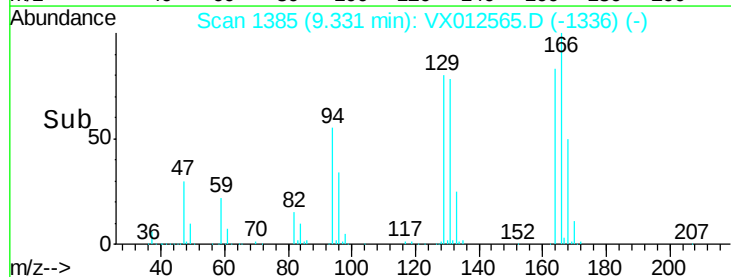
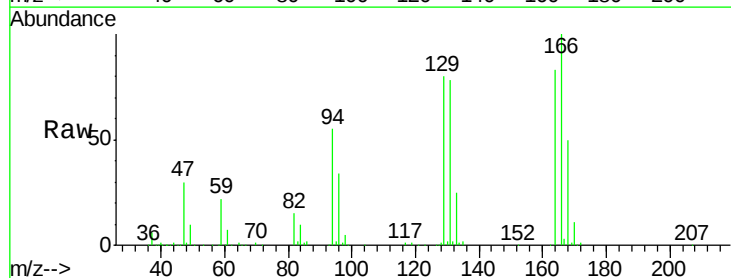
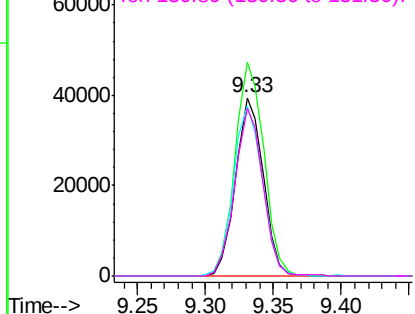
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

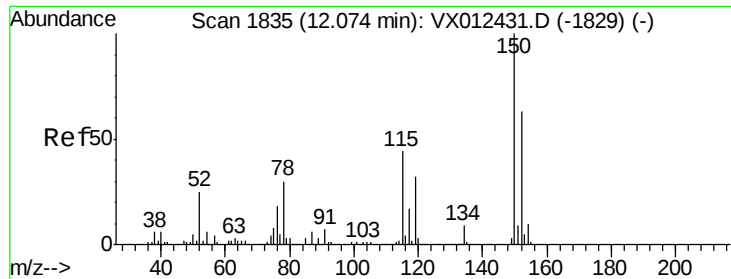


#64
Tetrachloroethene
Concen: 50.441 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX012565.D
Acq: 20 Sep 2019 18:19

Tgt Ion:164 Resp: 55917
Ion Ratio Lower Upper
164 100
166 119.9 107.8 161.6
129 95.7 86.2 129.2
131 94.1 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

MW6-R2-1DL

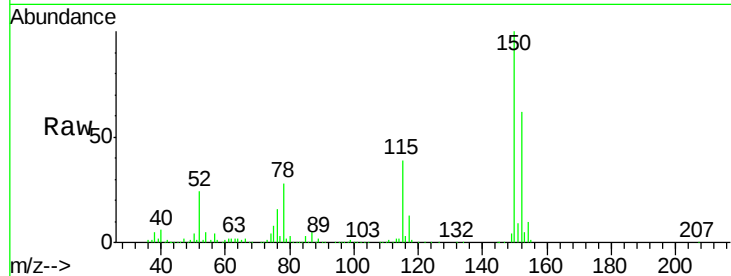
Tot Ion:152 Resp: 97246

Ion Ratio Lower Upper

152 100

115 62.8 44.1 132.3

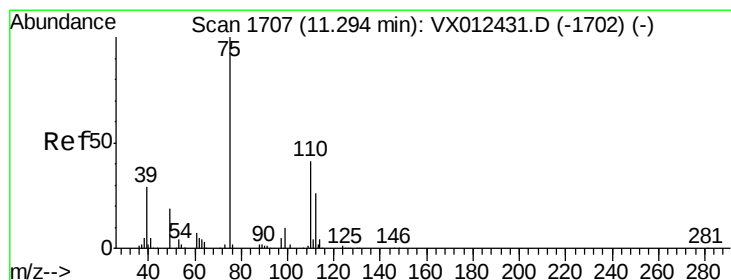
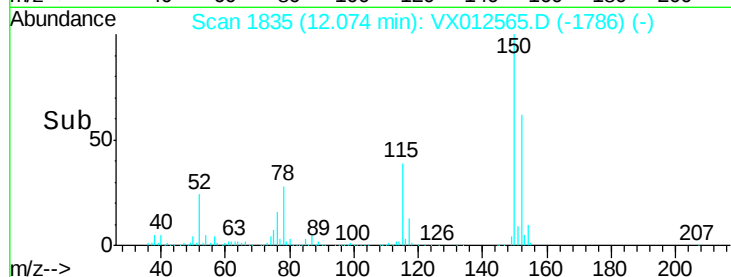
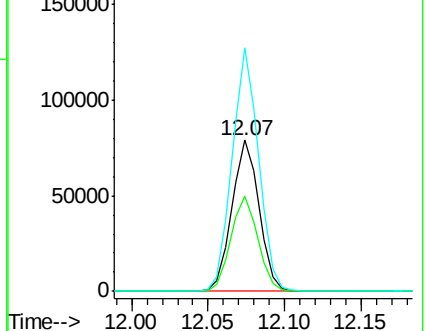
150 157.8 0.0 343.8



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: 27.471 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012565.D

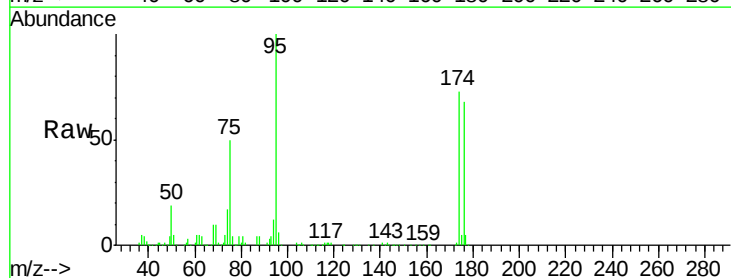
Acq: 20 Sep 2019 18:19

Tgt Ion: 75 Resp: 61366

Ion Ratio Lower Upper

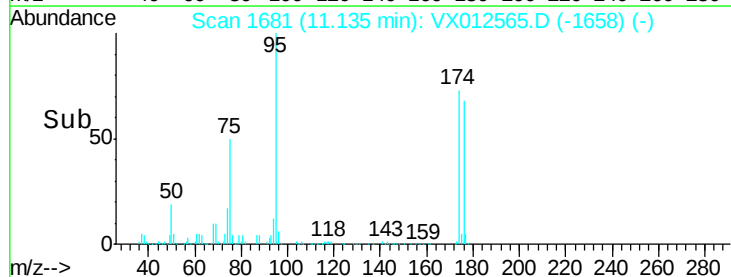
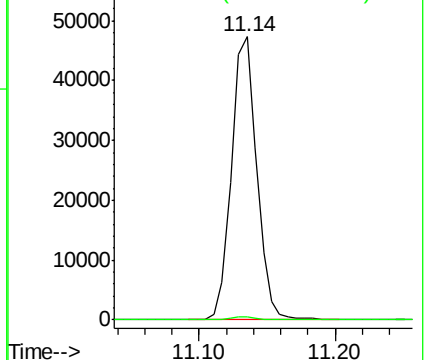
75 100

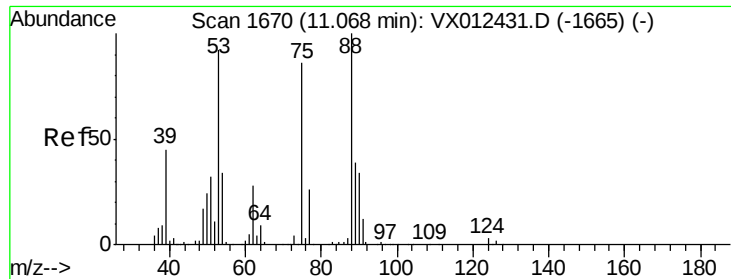
77 1.0 19.7 59.0#



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: 73.845 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012565.D

Acq: 20 Sep 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

MW6-R2-1DL

Tot Ion: 75 Resp: 61366

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

