

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012876.D
 Acq On : 08 Oct 2019 07:09
 Operator : JC/SP
 Sample : K5122-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 08 11:18:55 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	178927	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	307561	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	264565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	101199	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	119309	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
35) Dibromofluoromethane	5.49	113	91934	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
50) Toluene-d8	8.71	98	362728	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
62) 4-Bromofluorobenzene	11.14	95	123510	44.53	ug/l	0.00
Spiked Amount			Recovery	=	89.06%	

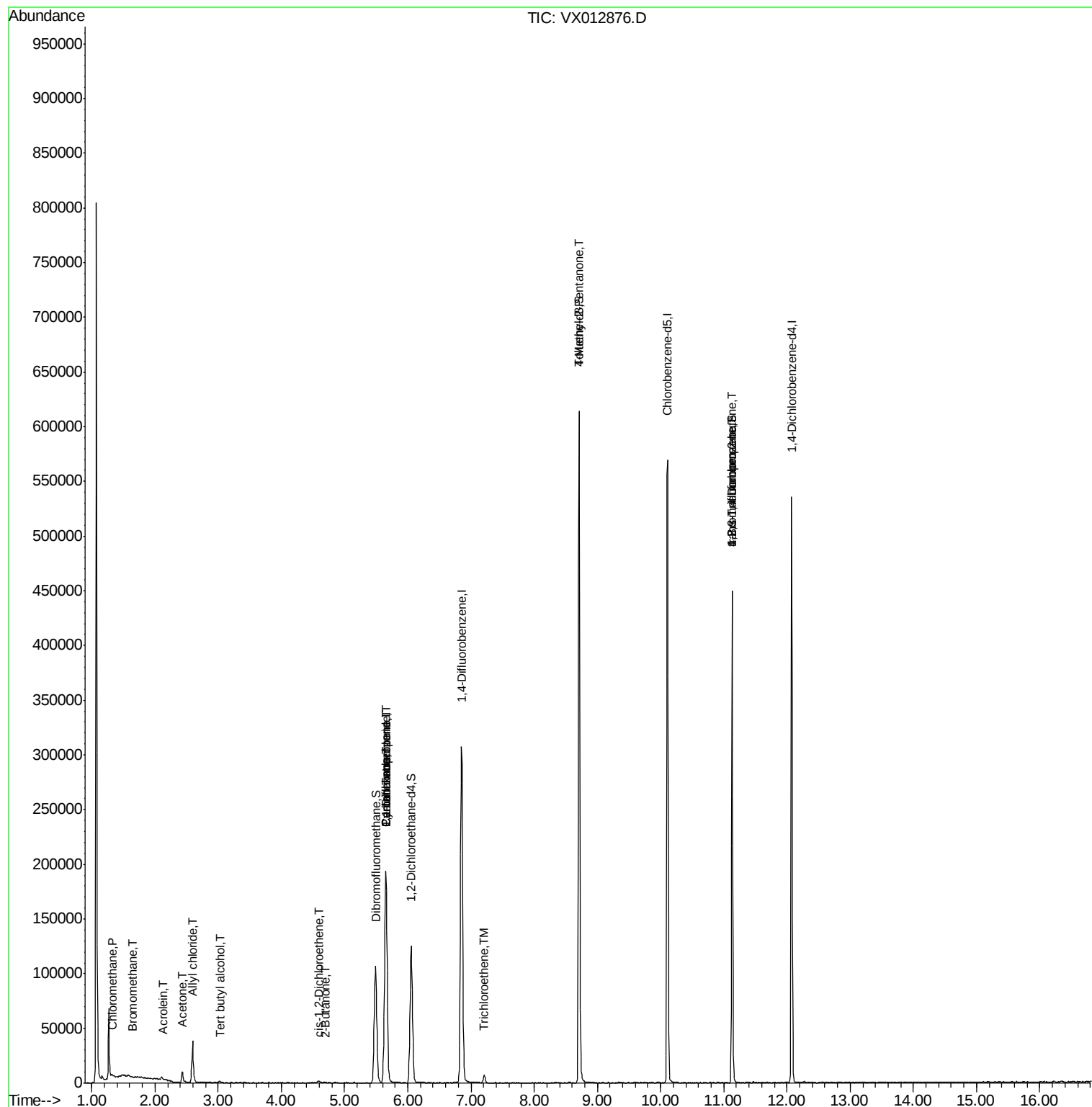
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	633	0.274	ug/l #	77
5) Bromomethane	1.64	94	220	0.244	ug/l #	4
11) Tert butyl alcohol	3.03	59	1473	2.263	ug/l #	72
13) Acrolein	2.12	56	19	10.283	ug/l #	15
14) Allyl chloride	2.59	41	3883	1.017	ug/l #	72
16) Acetone	2.43	43	10922	7.914	ug/l	98
25) 2-Butanone	4.69	43	455	0.230	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	970	0.392	ug/l	50
31) Cyclohexane	5.65	56	3893	1.073	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14526	4.900	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19288	6.405	ug/l #	16
44) Trichloroethene	7.22	130	3043	1.365	ug/l	81
51) 4-Methyl-2-Pentanone	8.71	43	1535	0.429	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	63409	23.687	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	63409	67.881	ug/l #	8

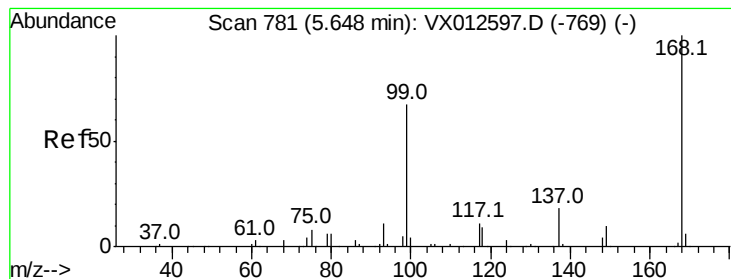
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

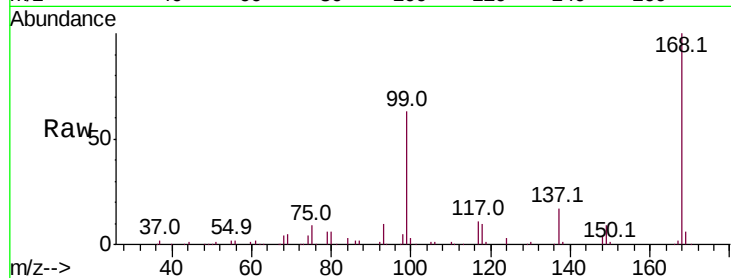
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 178927

Ion Ratio Lower Upper

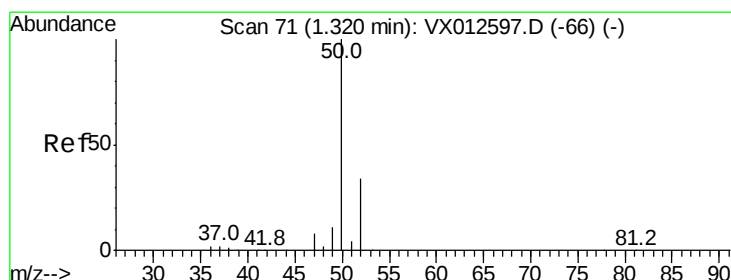
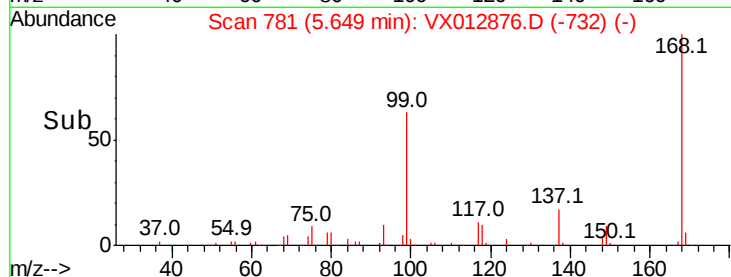
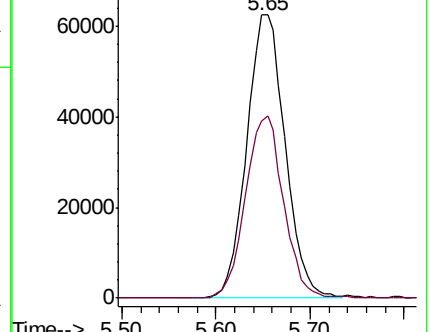
168 100

99 62.6 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: 0.274 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012876.D

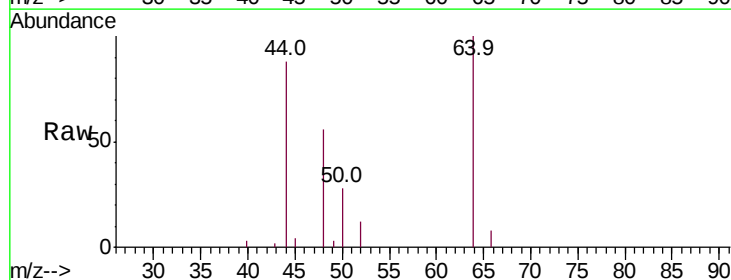
Acq: 08 Oct 2019 07:09

Tgt Ion: 50 Resp: 633

Ion Ratio Lower Upper

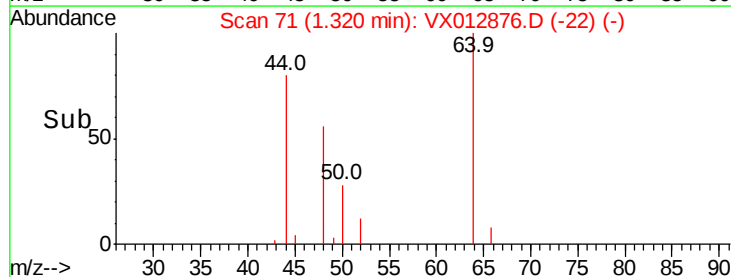
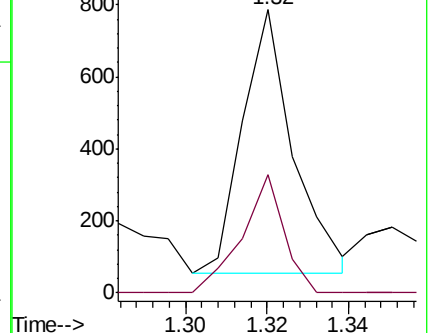
50 100

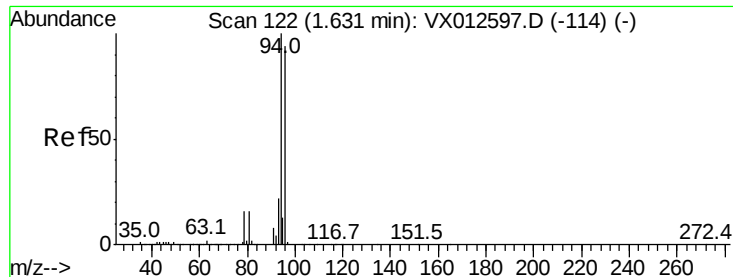
52 44.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.244 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

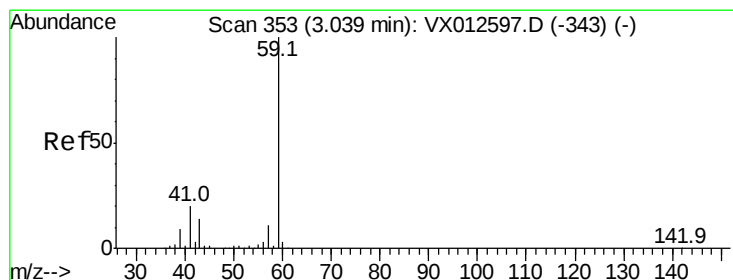
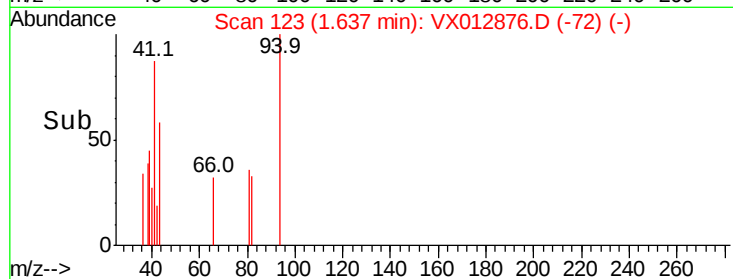
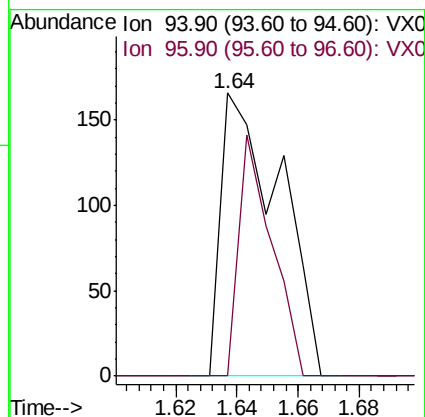
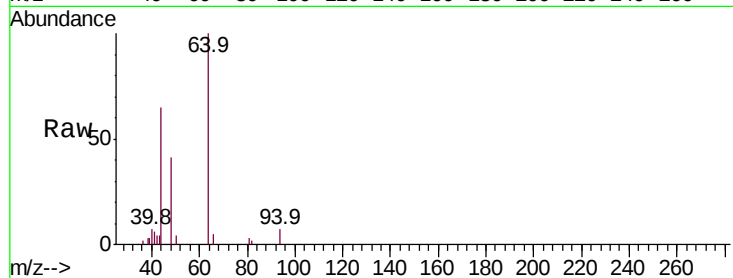
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 220

Ion Ratio Lower Upper

94 100

96 0.0 72.8 109.2#



#11

Tert butyl alcohol

Concen: 2.263 ug/l

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

Lab File: VX012876.D

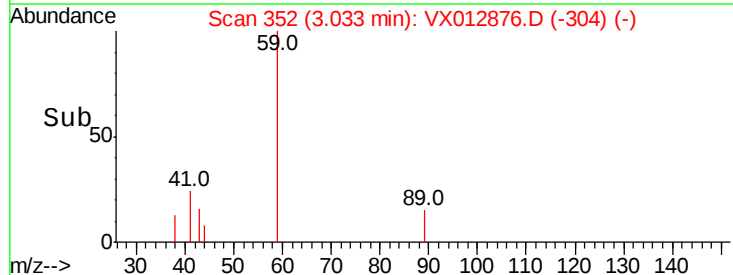
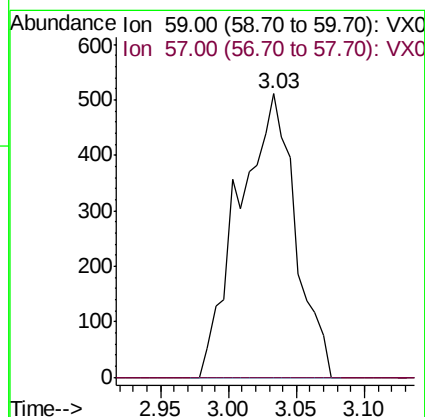
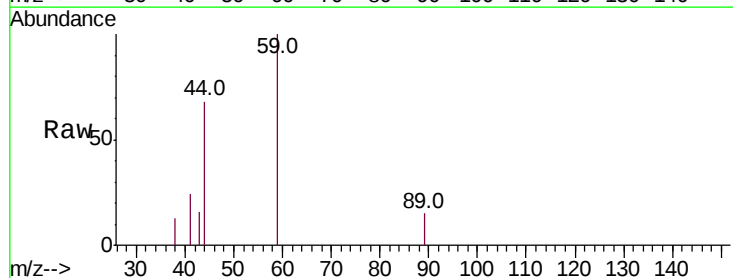
Acq: 08 Oct 2019 07:09

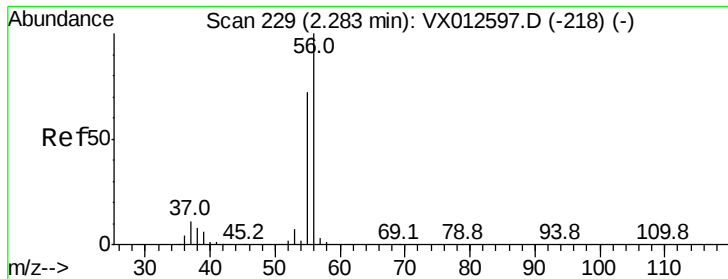
Tgt Ion: 59 Resp: 1473

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#13

Acrolein

Concen: 10.283 ug/l

RT: 2.12 min Scan# 203

Delta R.T. -0.16 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

Instrument :

MSVOA_X

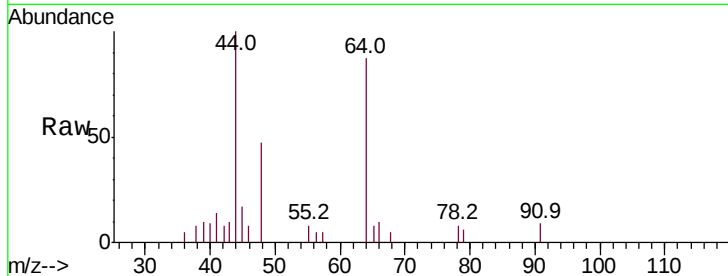
ClientSampleId :

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

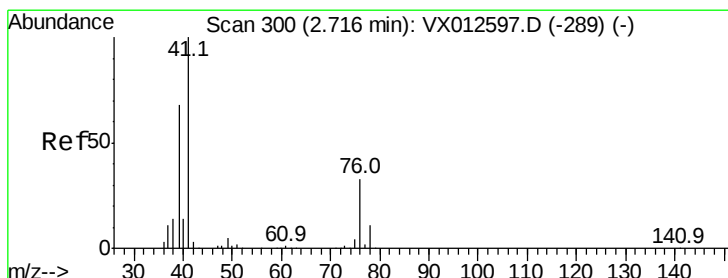
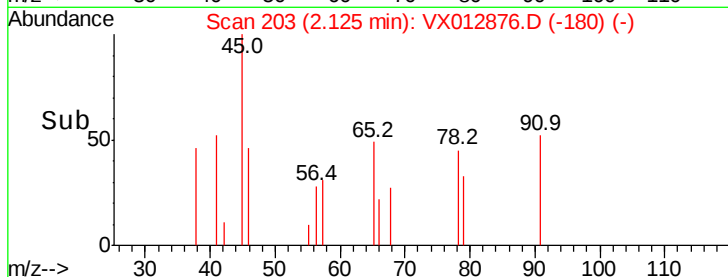
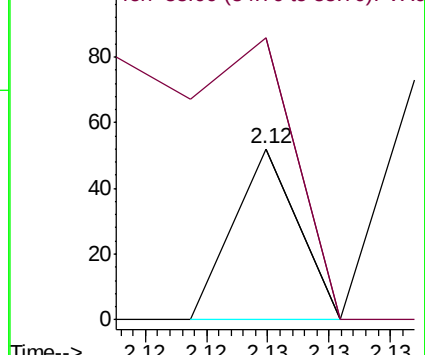
56 100

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: 1.017 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

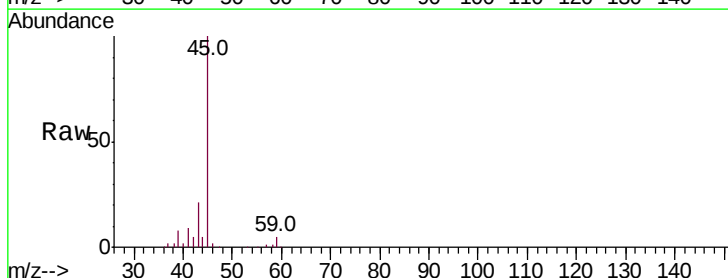
Tgt Ion: 41 Resp: 3883

Ion Ratio Lower Upper

41 100

39 77.5 51.3 76.9#

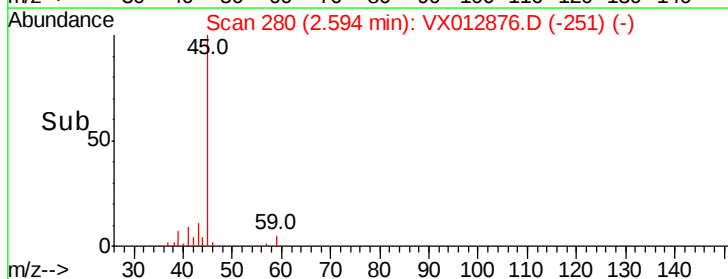
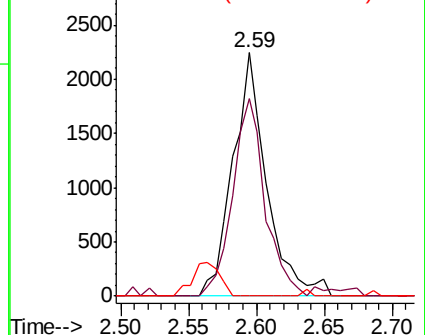
76 0.0 22.6 33.8#

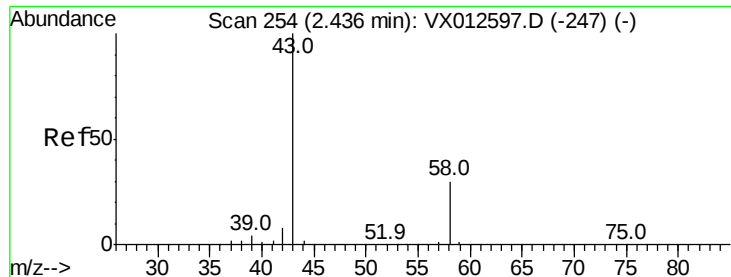


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 7.914 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

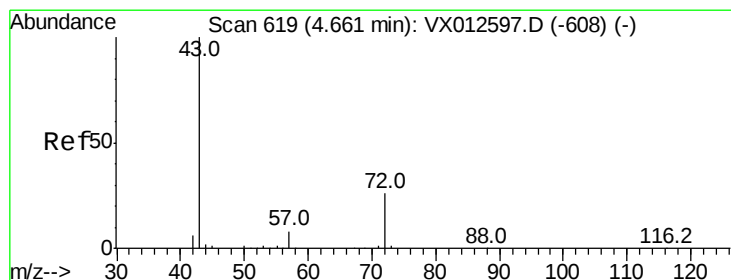
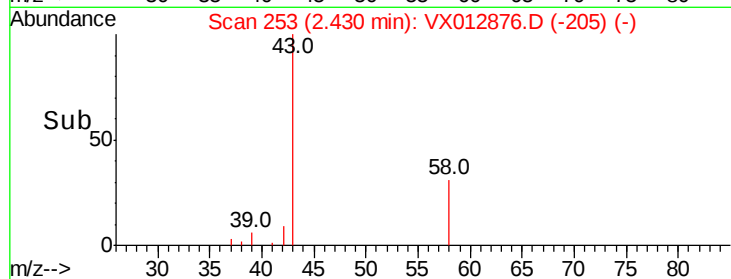
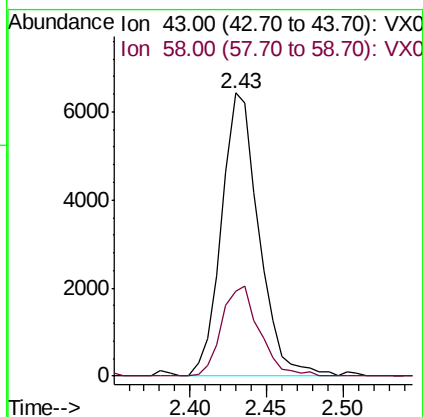
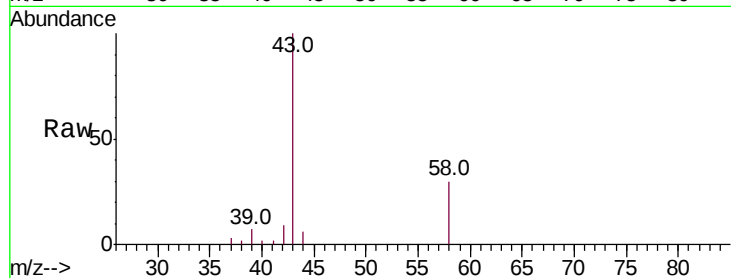
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 10922

Ion Ratio Lower Upper

43 100

58 30.0 23.3 34.9



#25

2-Butanone

Concen: 0.230 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012876.D

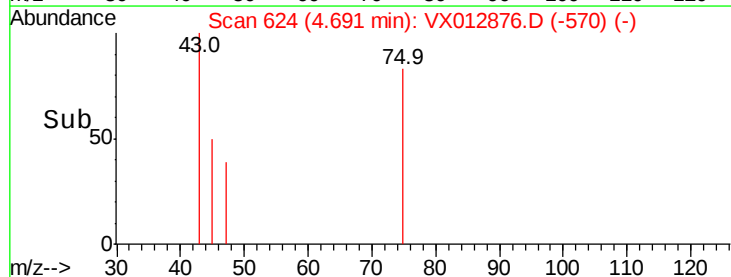
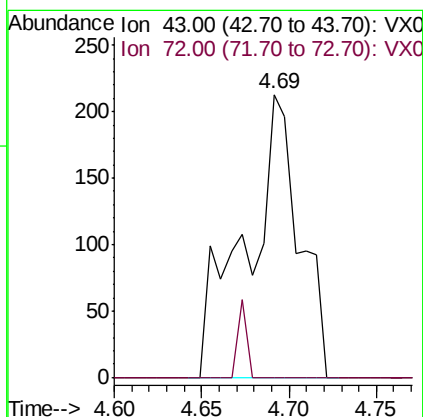
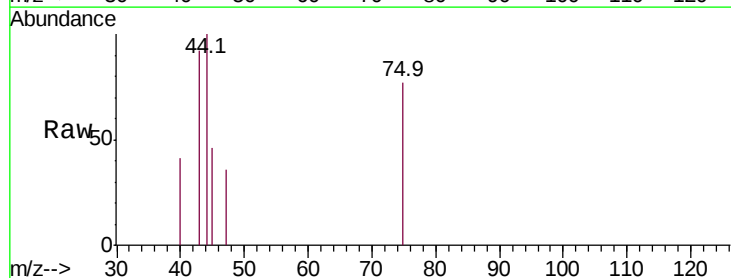
Acq: 08 Oct 2019 07:09

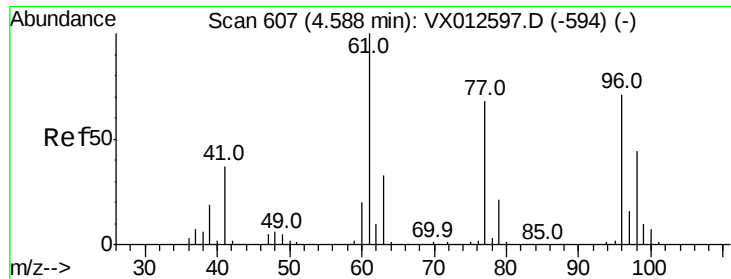
Tgt Ion: 43 Resp: 455

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



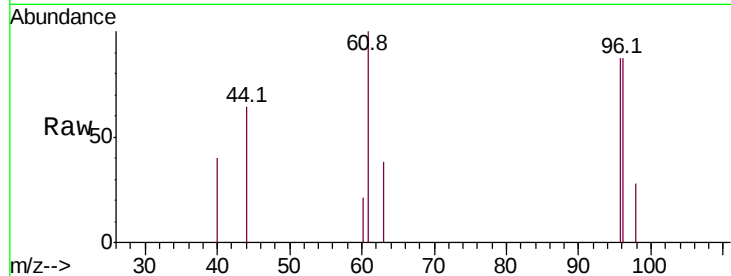


#27

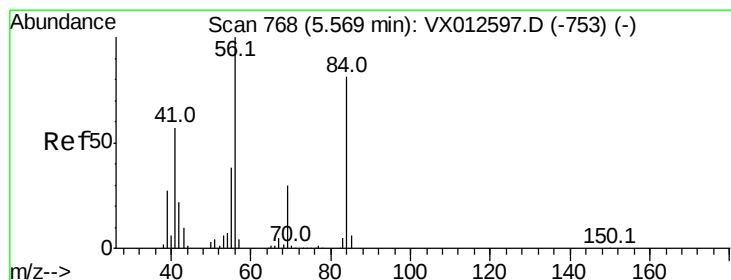
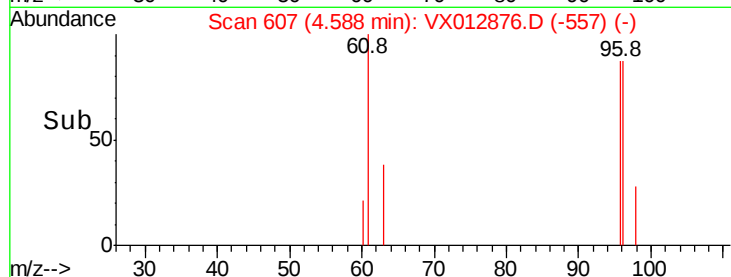
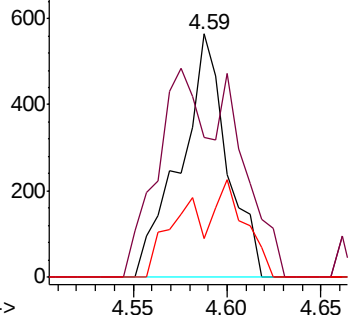
cis-1,2-Dichloroethene
Concen: 0.392 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX012876.D
Acq: 08 Oct 2019 07:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 970
Ion Ratio Lower Upper
96 100
61 94.3 0.0 319.4
98 24.0 0.0 130.6



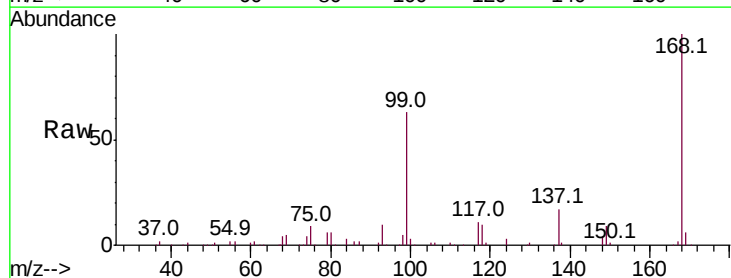
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



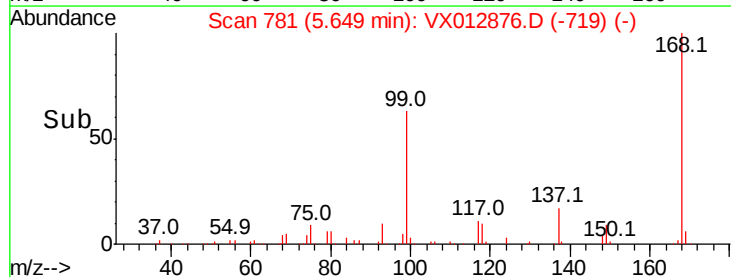
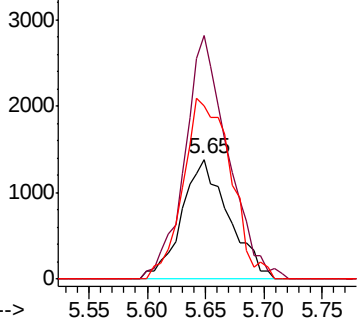
#31

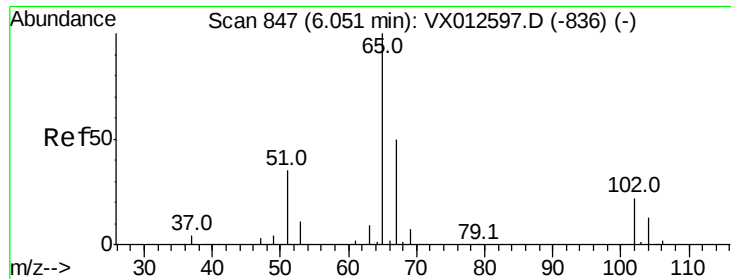
Cyclohexane
Concen: 1.073 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012876.D
Acq: 08 Oct 2019 07:09

Tgt Ion: 56 Resp: 3893
Ion Ratio Lower Upper
56 100
69 203.0 25.0 37.6#
84 144.9 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

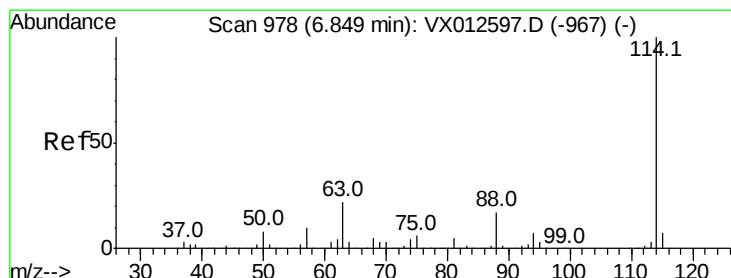
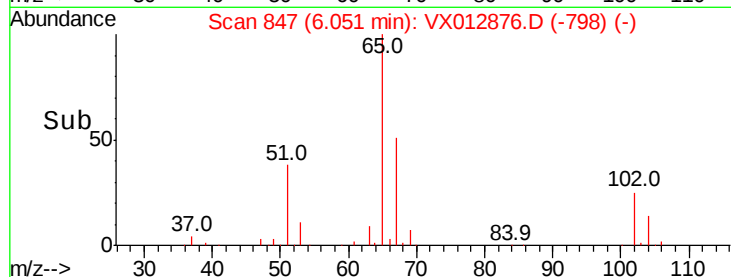
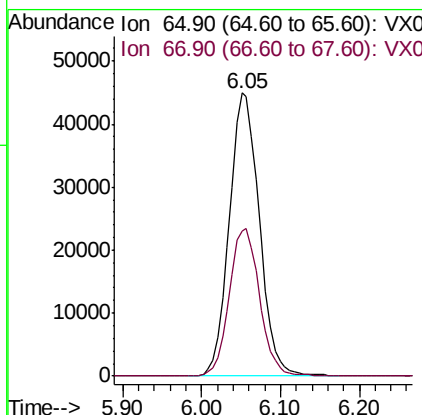
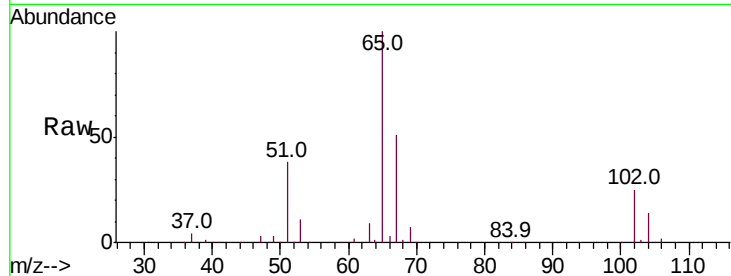




#33
 1,2-Dichloroethane-d4
 Concen: 45.791 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012876.D
 Acq: 08 Oct 2019 07:09

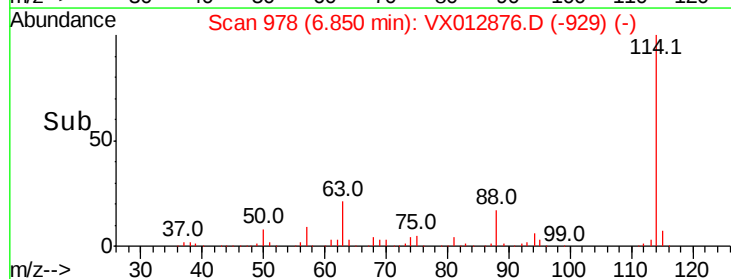
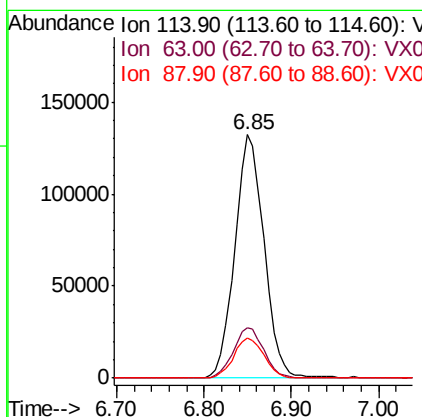
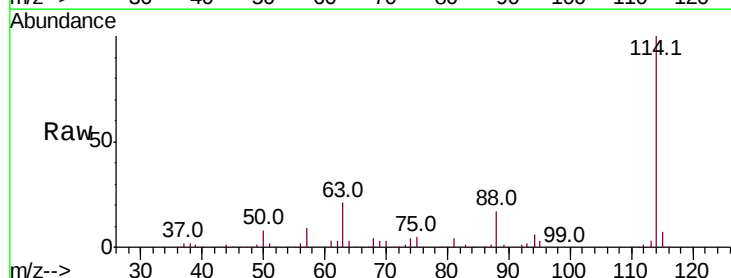
Instrument :
 MSVOA_X
 ClientSampled :

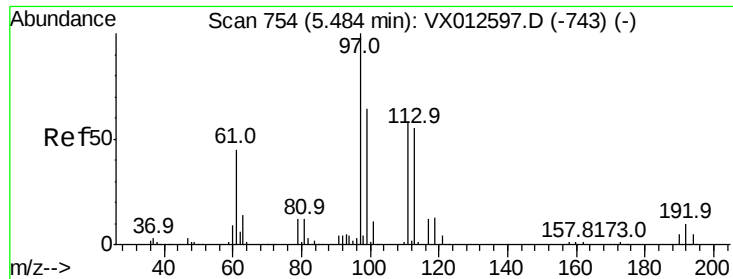
Tot Ion: 65 Resp: 119309
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012876.D
 Acq: 08 Oct 2019 07:09

Tgt Ion:114 Resp: 307561
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 43.2
 88 16.7 0.0 33.2

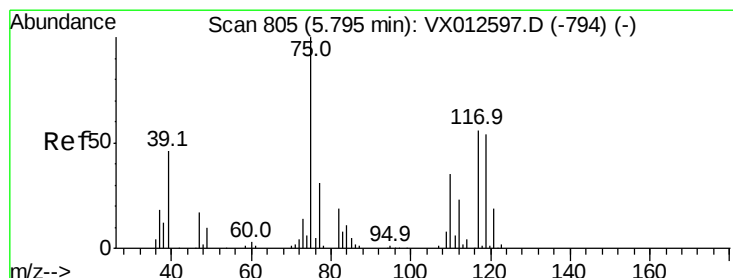
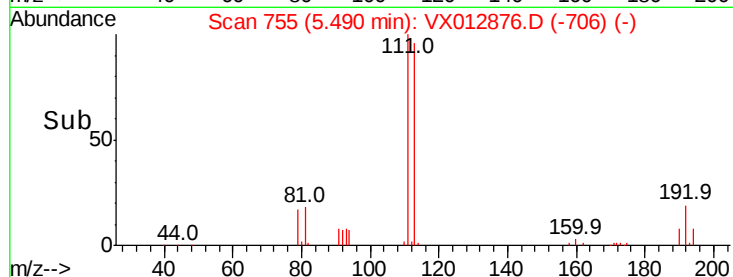
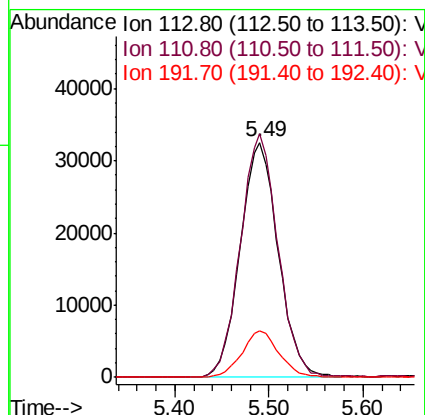
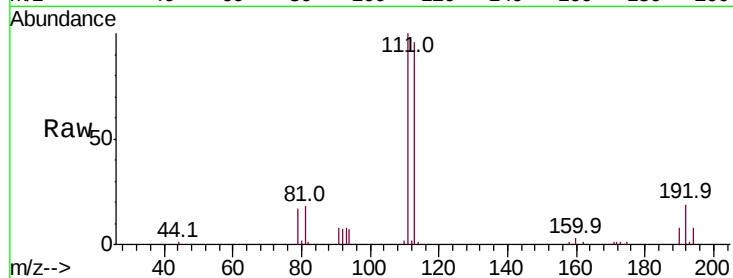




#35
 Dibromofluoromethane
 Concen: 50.192 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012876.D
 Acq: 08 Oct 2019 07:09

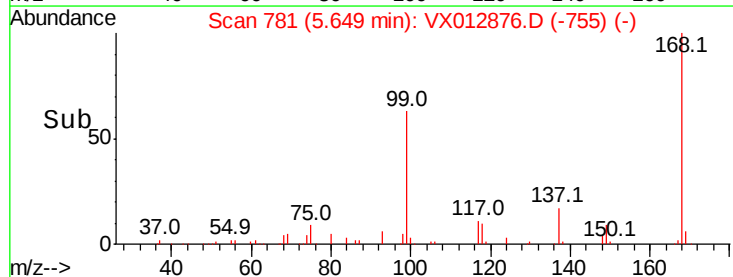
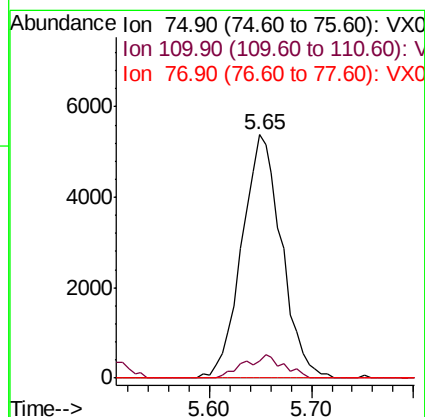
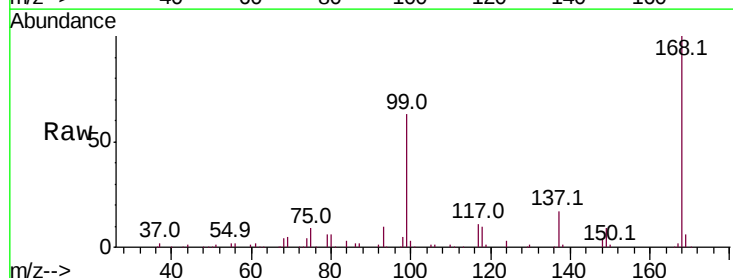
Instrument :
 MSVOA_X
 ClientSampleId :

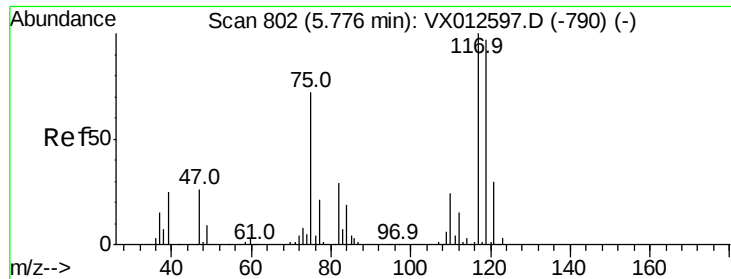
Tot Ion:113 Resp: 91934
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.4 125.2
 192 19.4 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 4.900 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012876.D
 Acq: 08 Oct 2019 07:09

Tgt Ion: 75 Resp: 14526
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.7 50.0#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.405 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

Instrument :

MSVOA_X

ClientSampled :

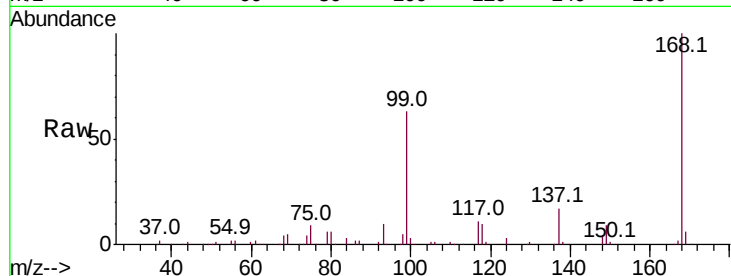
Tot Ion:117 Resp: 19288

Ion Ratio Lower Upper

117 100

119 4.8 75.7 113.5#

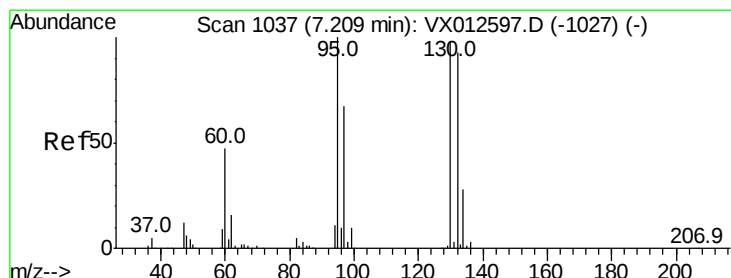
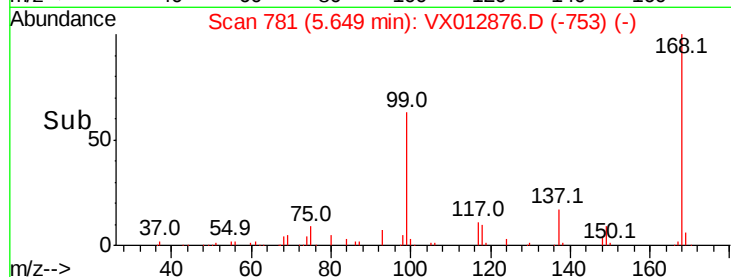
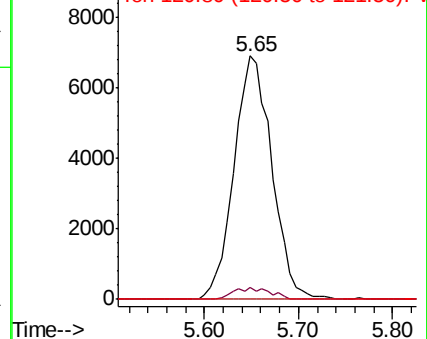
121 0.0 24.2 36.4#



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: 1.365 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX012876.D

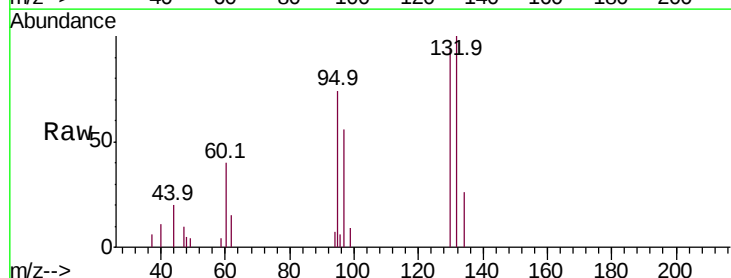
Acq: 08 Oct 2019 07:09

Tgt Ion:130 Resp: 3043

Ion Ratio Lower Upper

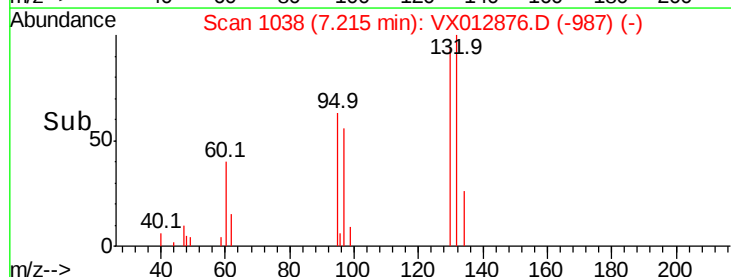
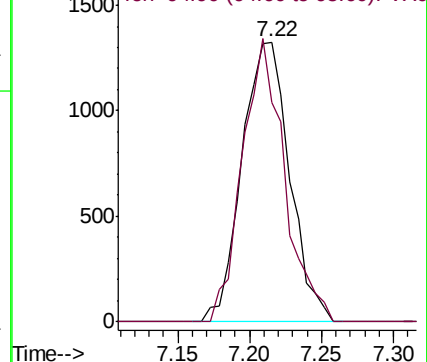
130 100

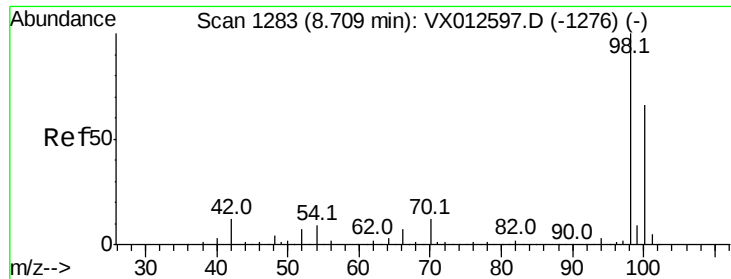
95 78.2 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

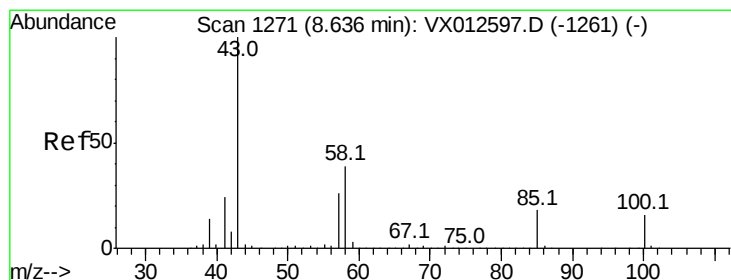
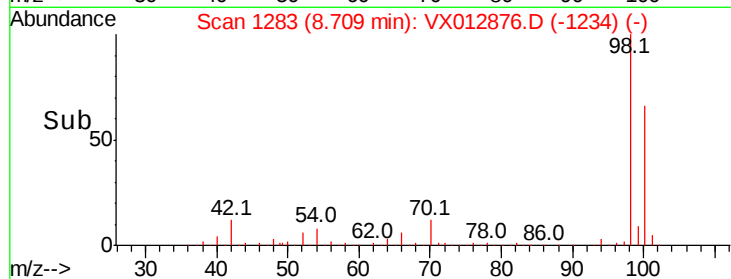
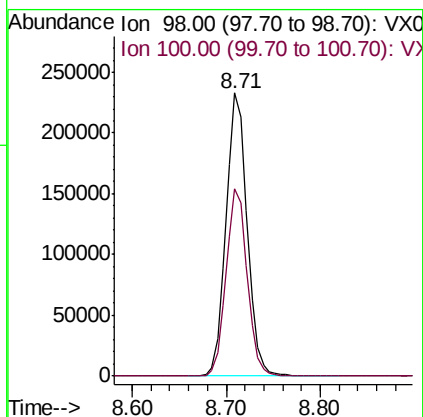
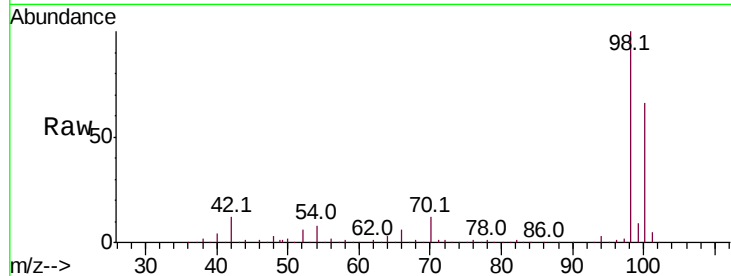




#50
Toluene-d8
Concen: 51.423 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012876.D
Acq: 08 Oct 2019 07:09

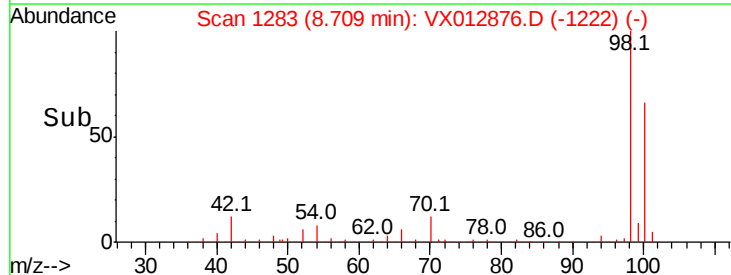
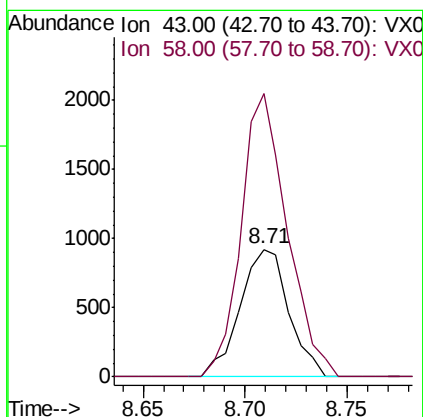
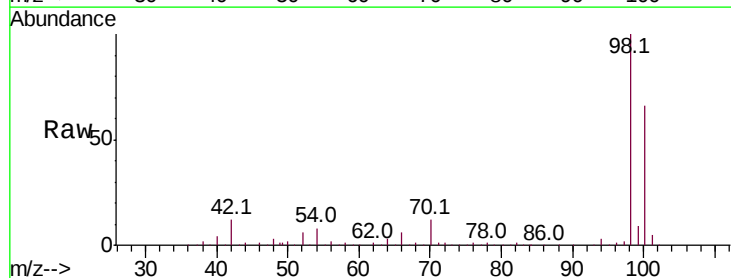
Instrument :
MSVOA_X
ClientSampled :

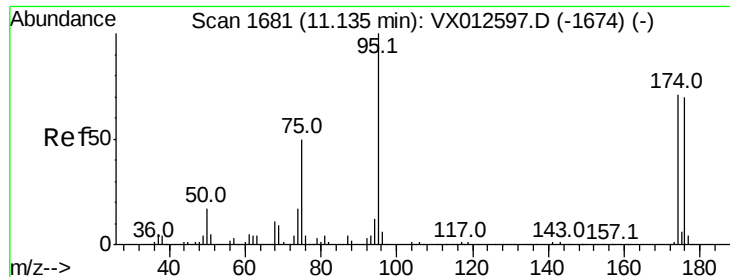
Tot Ion: 98 Resp: 362728
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.429 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012876.D
Acq: 08 Oct 2019 07:09

Tgt Ion: 43 Resp: 1535
Ion Ratio Lower Upper
43 100
58 208.7 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 44.531 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

Instrument :

MSVOA_X

ClientSampleId :

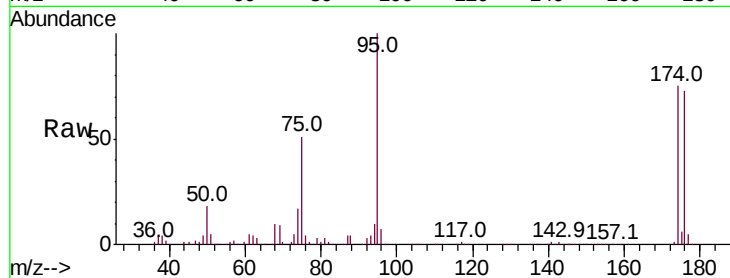
Tot Ion: 95 Resp: 123510

Ion Ratio Lower Upper

95 100

174 73.3 0.0 140.0

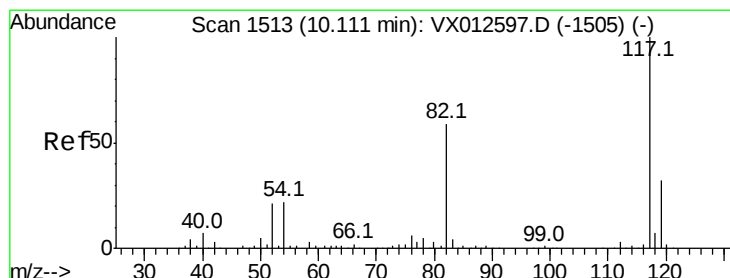
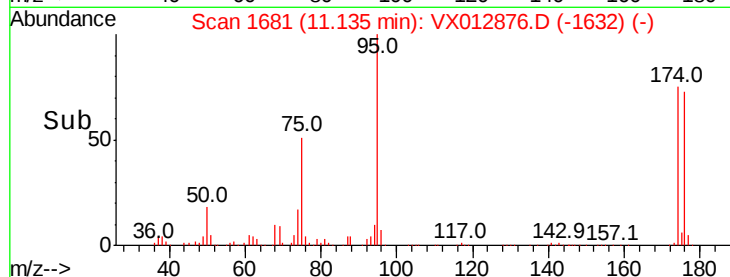
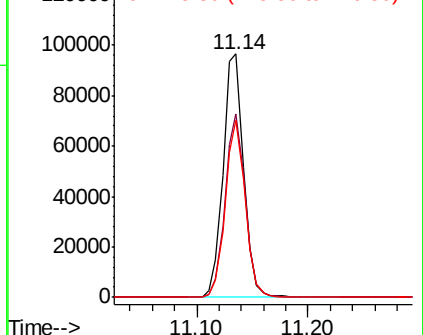
176 70.0 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

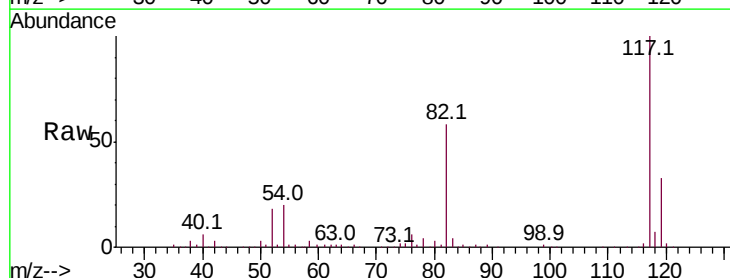
Tgt Ion: 117 Resp: 264565

Ion Ratio Lower Upper

117 100

82 58.4 45.9 68.9

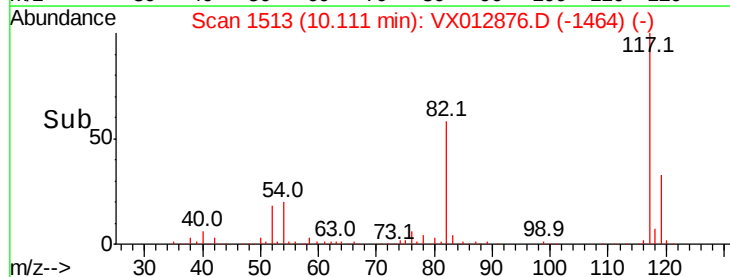
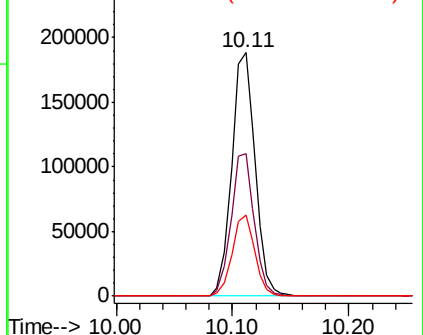
119 33.0 25.3 37.9

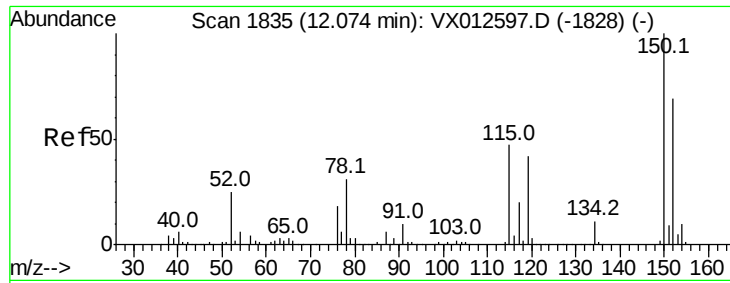


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

Instrument :

MSVOA_X

ClientSampleId :

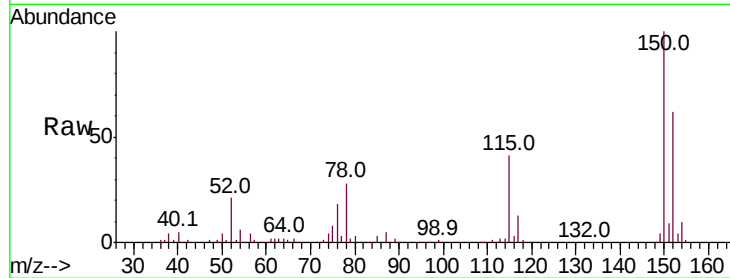
Tot Ion:152 Resp: 101199

Ion Ratio Lower Upper

152 100

115 65.7 44.1 132.3

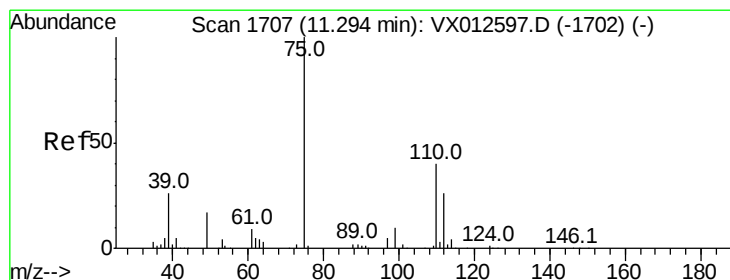
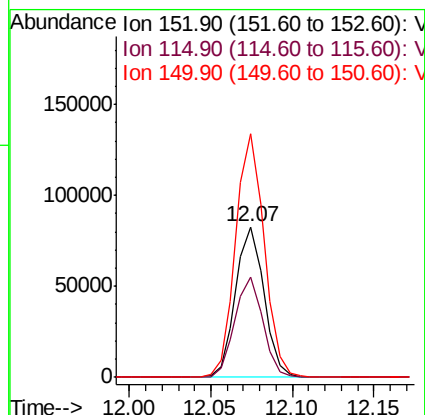
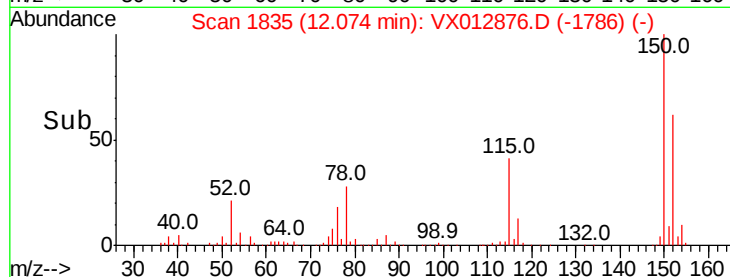
150 161.4 0.0 343.8



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: 23.687 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012876.D

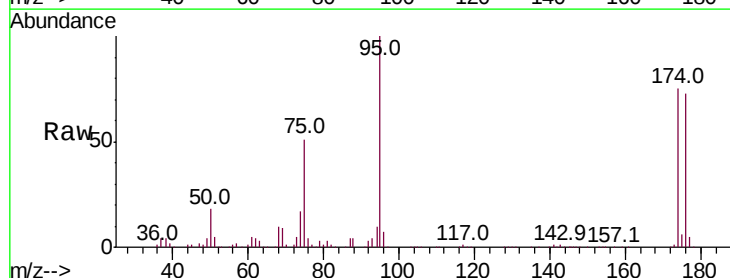
Acq: 08 Oct 2019 07:09

Tgt Ion: 75 Resp: 63409

Ion Ratio Lower Upper

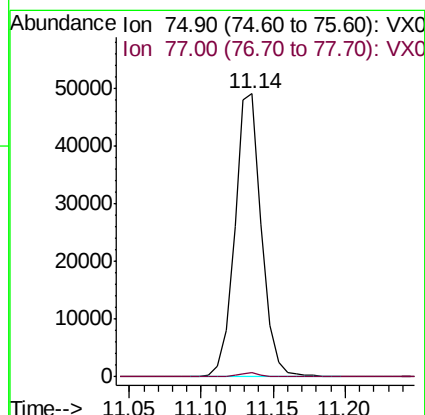
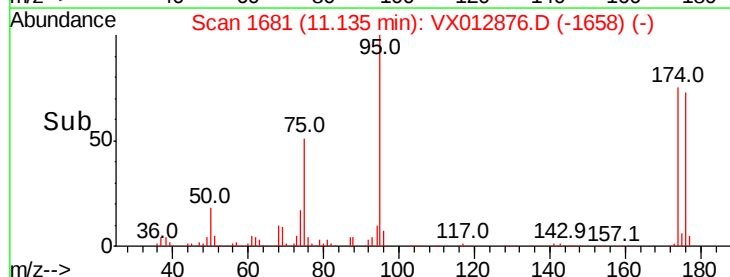
75 100

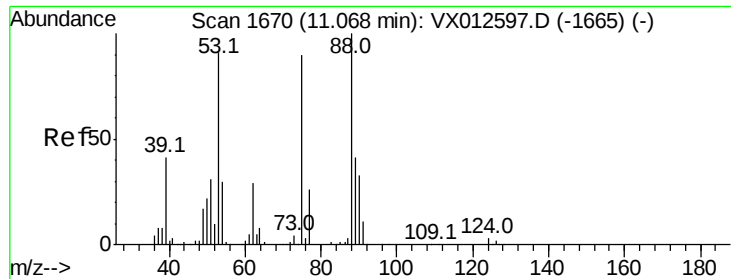
77 1.1 19.7 59.0#



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: 67.881 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012876.D

Acq: 08 Oct 2019 07:09

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 63409

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

