

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100819\
 Data File : VX012921.D
 Acq On : 09 Oct 2019 04:42
 Operator : JC/SP
 Sample : K5154-25
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 09 05:59:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	181435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	309487	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	260876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	103756	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	119027	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
35) Dibromofluoromethane	5.49	113	91762	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
50) Toluene-d8	8.71	98	361621	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
62) 4-Bromofluorobenzene	11.14	95	123499	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	

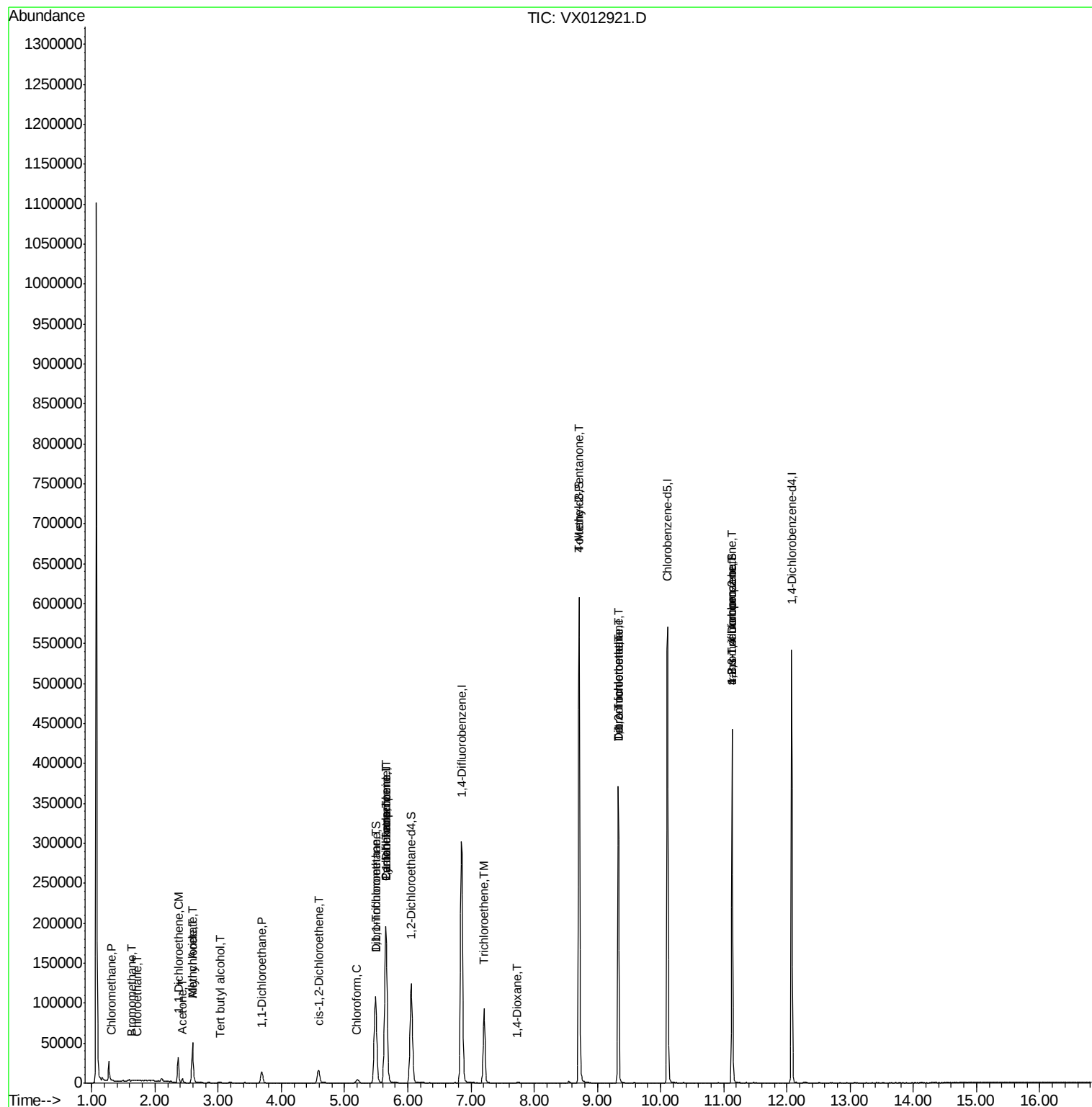
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	626	0.311	ug/l #	88
5) Bromomethane	1.64	94	286	0.331	ug/l #	60
6) Chloroethane	1.72	64	265	0.575	ug/l #	43
11) Tert butyl alcohol	3.03	59	595	0.990	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	10725	5.850	ug/l	95
14) Allyl chloride	2.59	41	4757	1.457	ug/l #	56
16) Acetone	2.44	43	5116	4.280	ug/l	90
18) Methyl Acetate	2.59	43	13284	4.689	ug/l #	51
24) 1,1-Dichloroethane	3.69	63	15878	4.511	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	10287	4.541	ug/l	91
28) Bromochloromethane	5.20	49	430	Below Cal	#	13
30) Chloroform	5.20	83	5059	1.401	ug/l	87
31) Cyclohexane	5.65	56	3819	1.160	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	2973	0.972	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	14621	5.373	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18969	7.162	ug/l #	17
44) Trichloroethene	7.21	130	35294	15.837	ug/l	98
49) 1,4-Dioxane	7.73	88	293	39.511	ug/l #	19
51) 4-Methyl-2-Pentanone	8.71	43	1637	0.538	ug/l #	1
55) 1,1,2-Trichloroethane	9.33	97	523	0.257	ug/l #	1
60) Dibromochloromethane	9.33	129	67432	30.532	ug/l #	10
64) Tetrachloroethene	9.33	164	67555	37.335	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	62707	27.249	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	62707	68.430	ug/l #	10

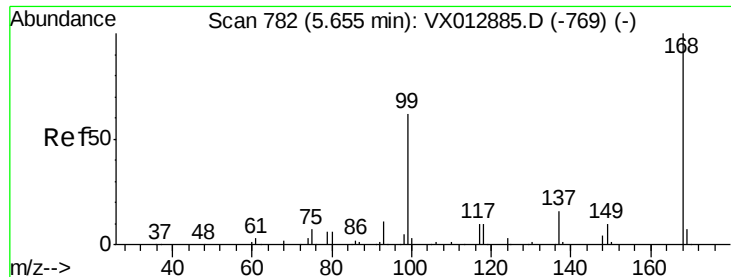
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

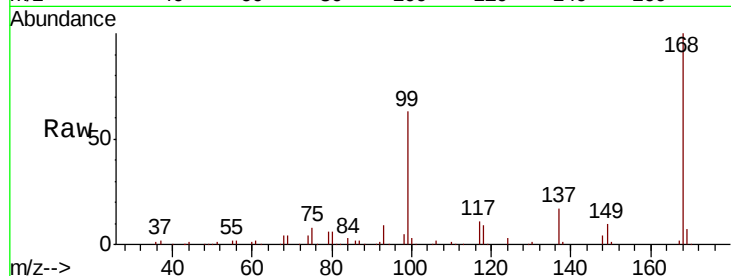
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 181435

Ion Ratio Lower Upper

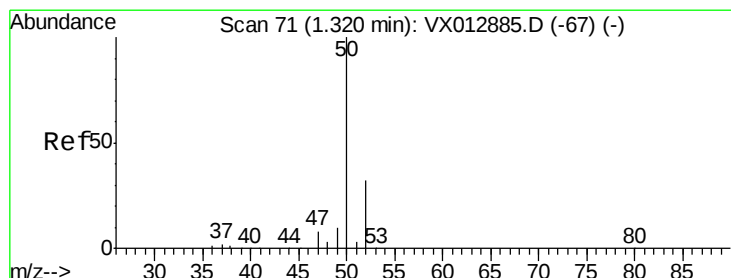
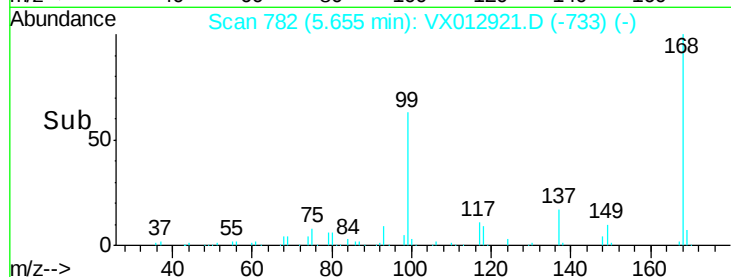
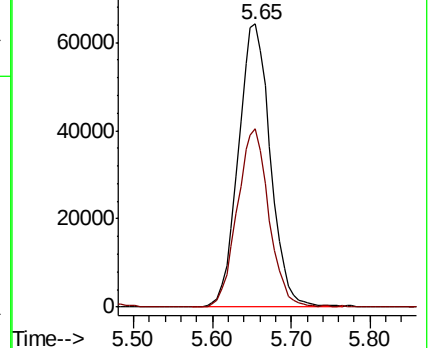
168 100

99 62.9 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.311 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012921.D

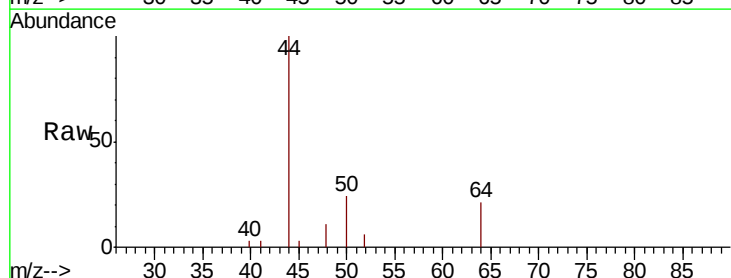
Acq: 09 Oct 2019 04:42

Tgt Ion: 50 Resp: 626

Ion Ratio Lower Upper

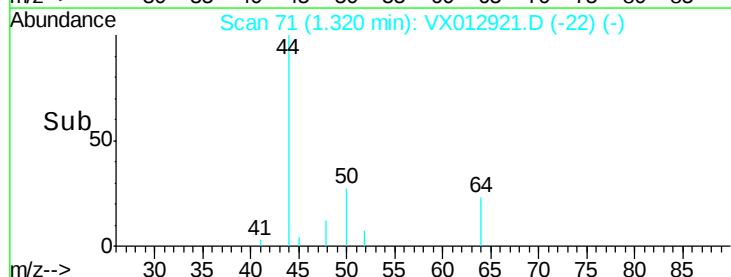
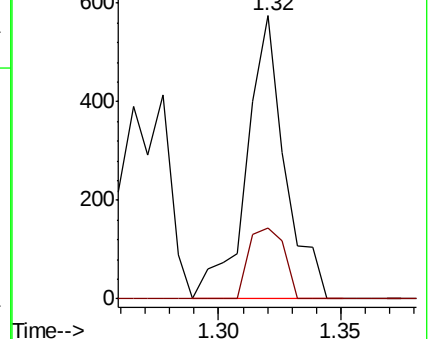
50 100

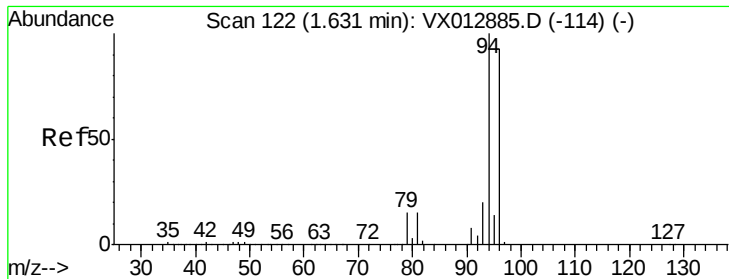
52 24.9 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.331 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

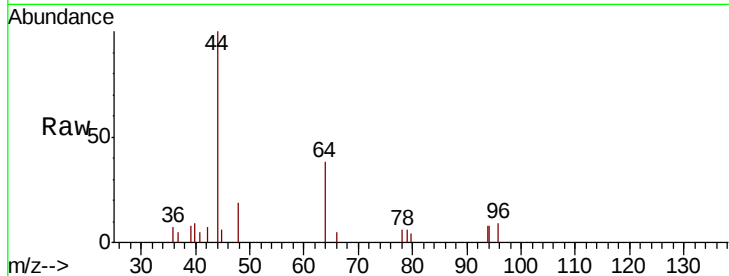
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 286

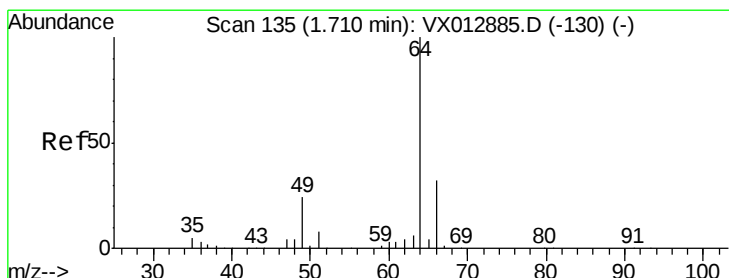
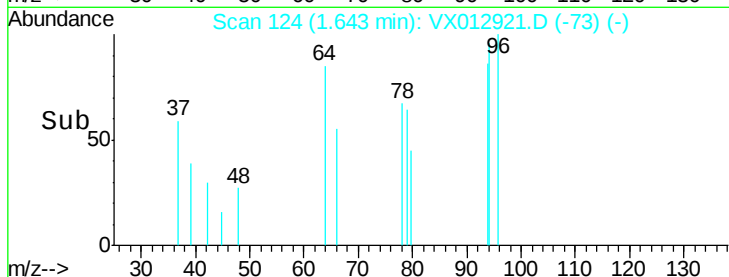
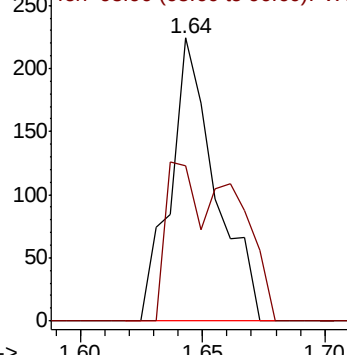
Ion Ratio Lower Upper

94 100

96 54.9 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0
Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.575 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012921.D

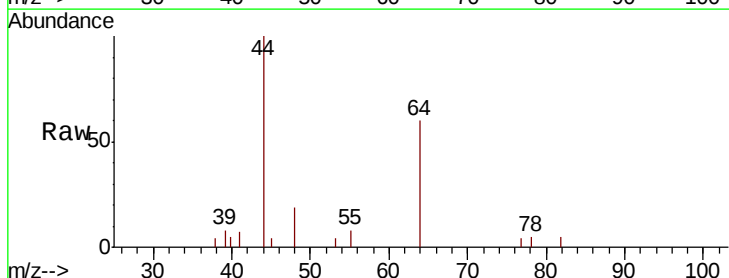
Acq: 09 Oct 2019 04:42

Tgt Ion: 64 Resp: 265

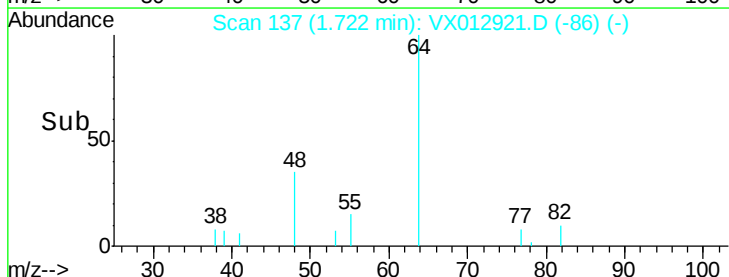
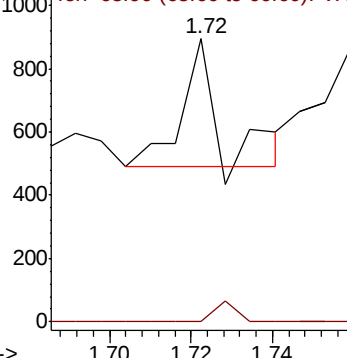
Ion Ratio Lower Upper

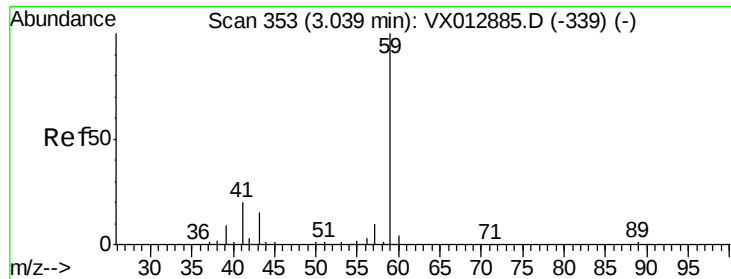
64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0
Ion 65.90 (65.60 to 66.60): VX0

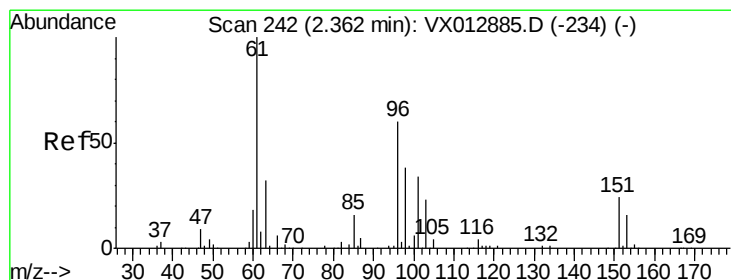
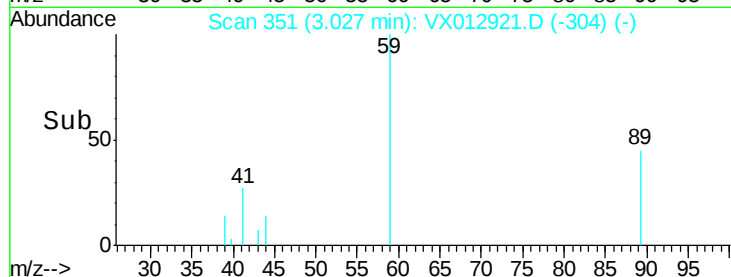
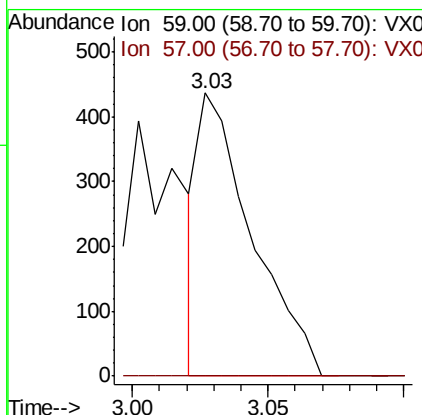
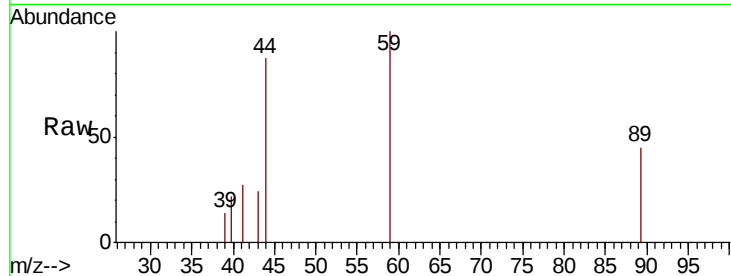




#11
Tert butyl alcohol
Concen: 0.990 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012921.D
Acq: 09 Oct 2019 04:42

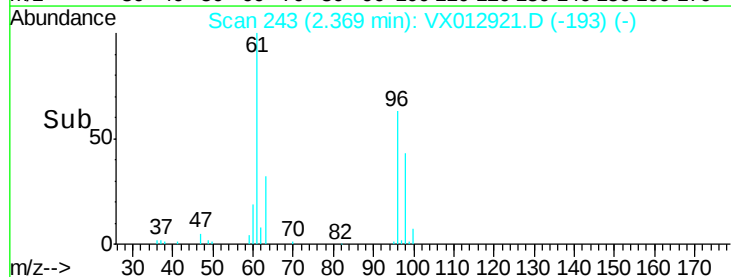
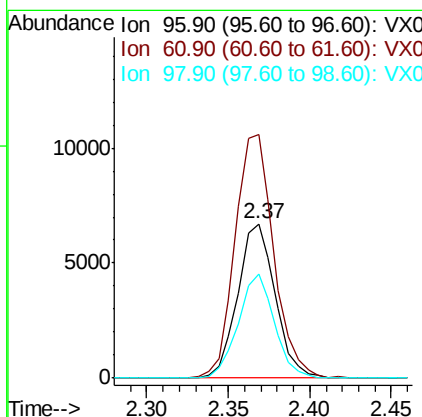
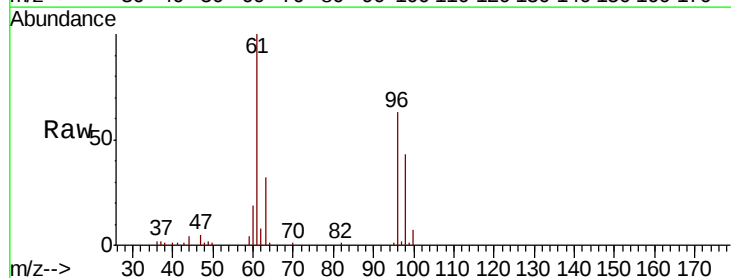
Instrument :
MSVOA_X
ClientSampleId :

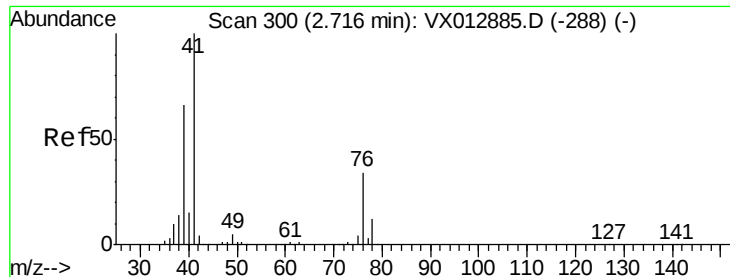
Tot Ion: 59 Resp: 595
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 5.850 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX012921.D
Acq: 09 Oct 2019 04:42

Tgt Ion: 96 Resp: 10725
Ion Ratio Lower Upper
96 100
61 157.9 132.2 198.4
98 67.2 50.5 75.7





#14

Allvl chloride

Concen: 1.457 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Instrument :

MSVOA_X

ClientSampled :

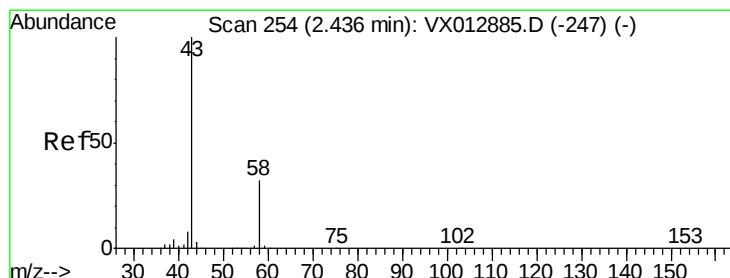
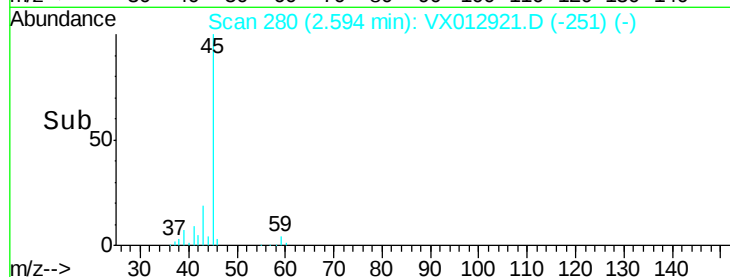
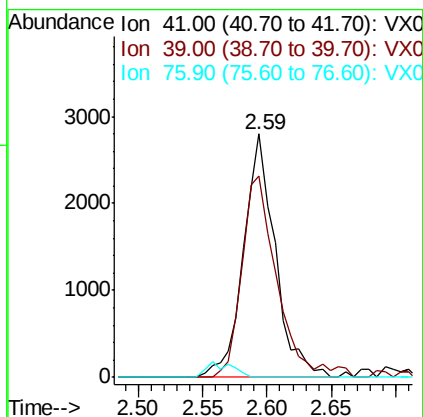
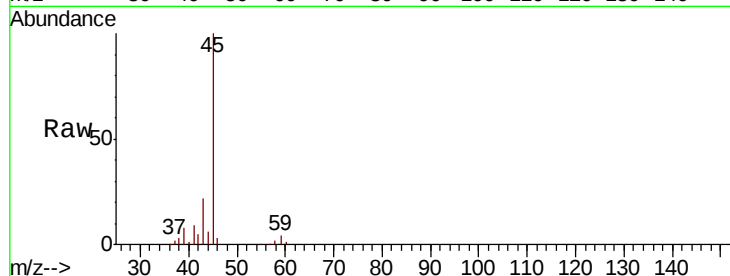
Tot Ion: 41 Resp: 4757

Ion Ratio Lower Upper

41 100

39 92.4 51.0 76.6#

76 0.0 26.2 39.4#



#16

Acetone

Concen: 4.280 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX012921.D

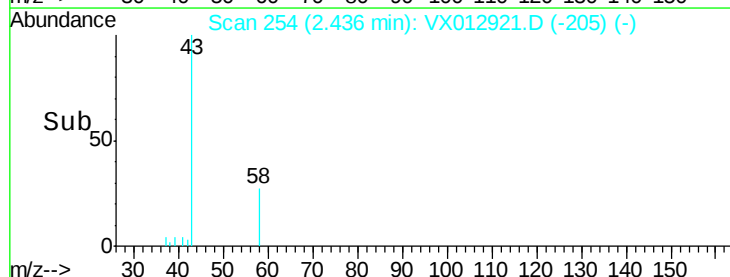
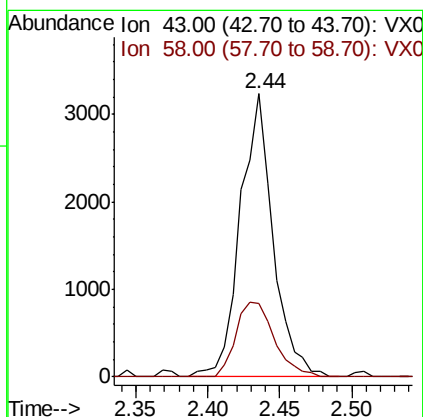
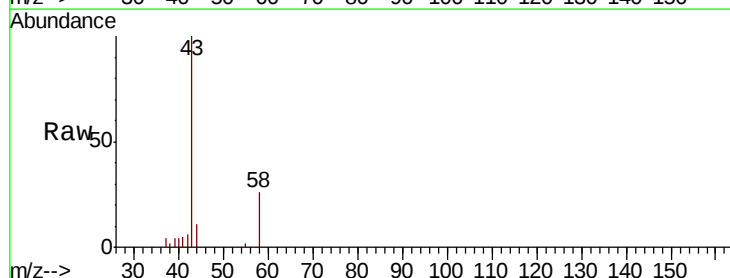
Acq: 09 Oct 2019 04:42

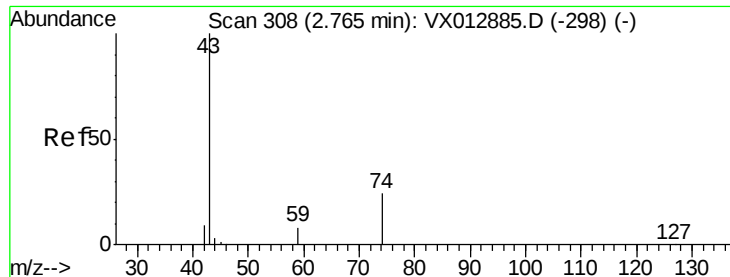
Tgt Ion: 43 Resp: 5116

Ion Ratio Lower Upper

43 100

58 26.0 25.4 38.2





#18

Methyl Acetate

Concen: 4.689 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Instrument :

MSVOA_X

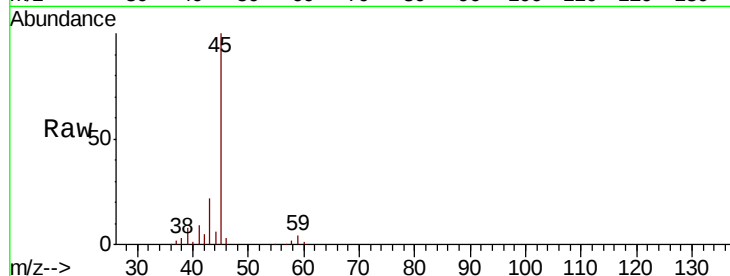
ClientSampleId :

Tot Ion: 43 Resp: 13284

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

8000

6000

4000

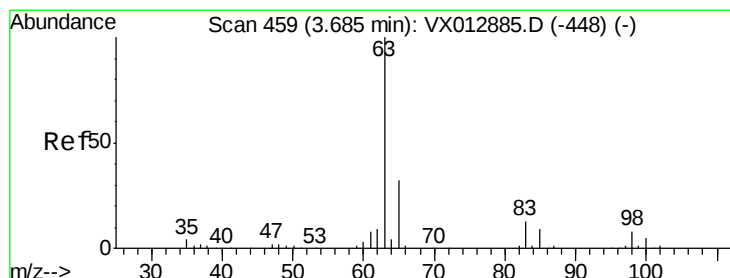
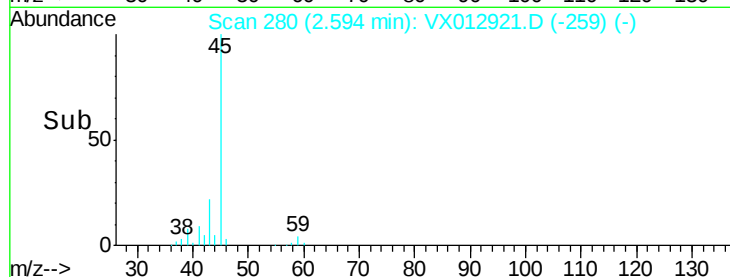
2000

0

Time-->

2.50 2.55 2.60 2.65

2.59



#24

1,1-Dichloroethane

Concen: 4.511 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

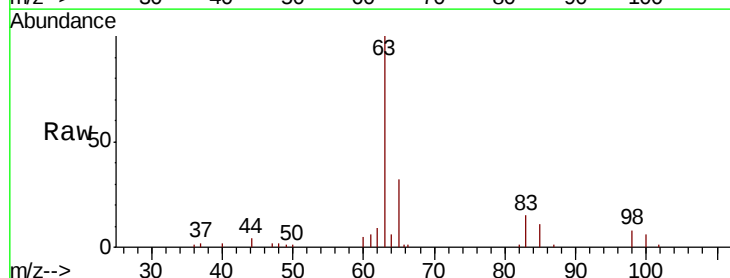
Tgt Ion: 63 Resp: 15878

Ion Ratio Lower Upper

63 100

98 8.0 3.9 11.5

100 5.7 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

8000

6000

4000

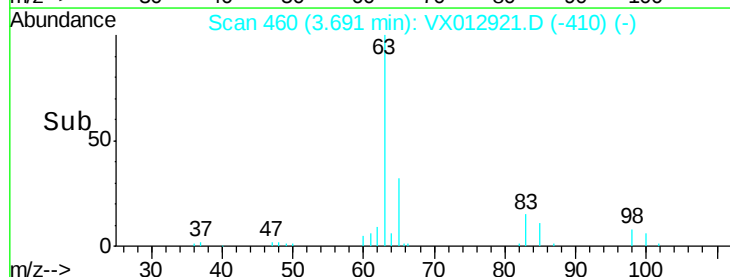
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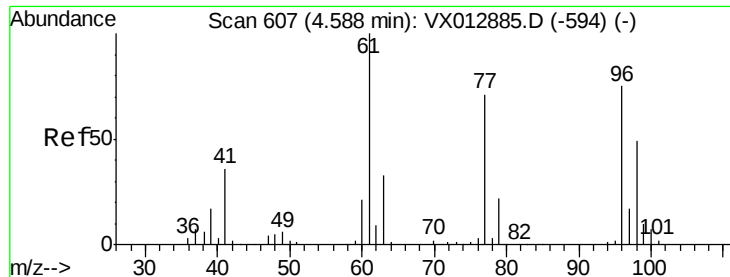
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Time-->

3.60 3.65 3.70 3.75 3.80

3.69

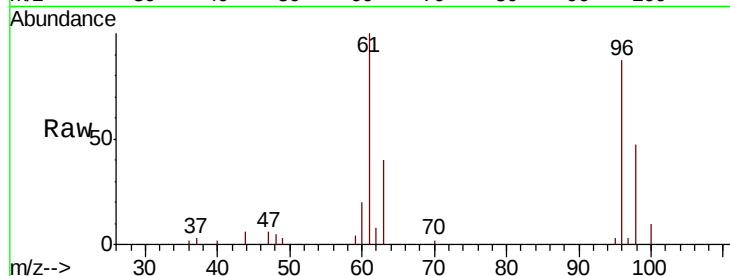




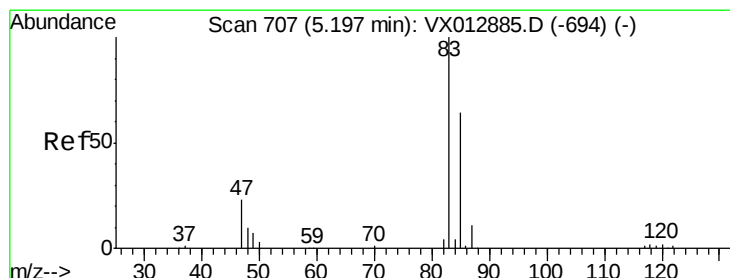
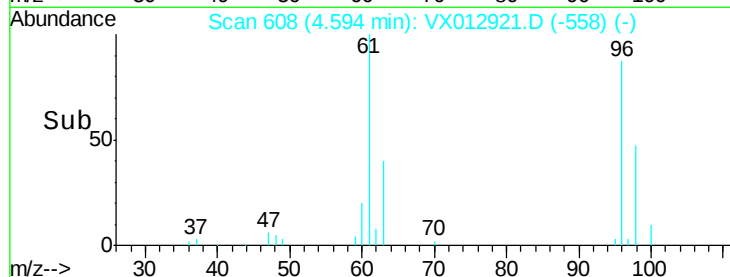
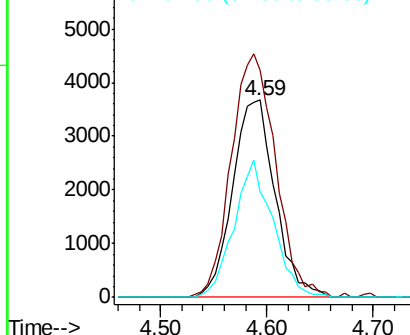
#27
 cis-1,2-Dichloroethene
 Concen: 4.541 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX012921.D
 Acq: 09 Oct 2019 04:42

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 96 Resp: 10287
 Ion Ratio Lower Upper
 96 100
 61 128.8 0.0 290.6
 98 63.7 0.0 128.8

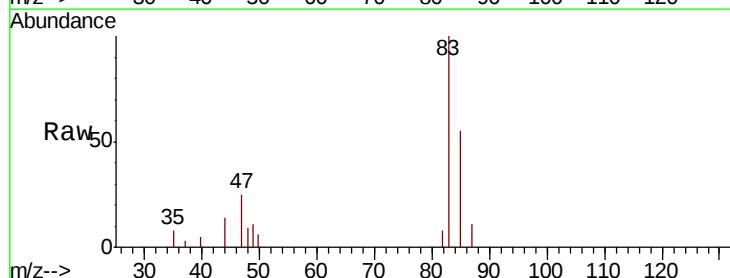


Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

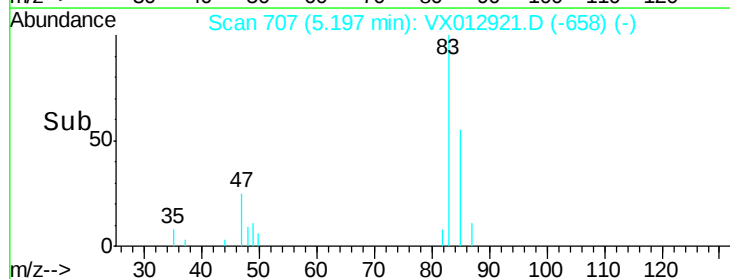
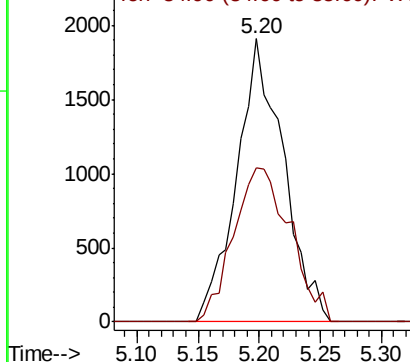


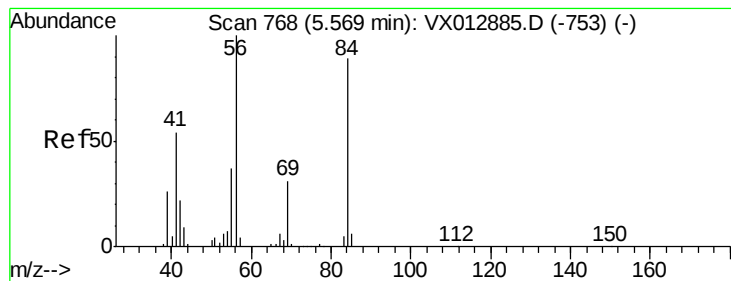
#30
 Chloroform
 Concen: 1.401 ug/l
 RT: 5.20 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VX012921.D
 Acq: 09 Oct 2019 04:42

Tgt Ion: 83 Resp: 5059
 Ion Ratio Lower Upper
 83 100
 85 54.6 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.160 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

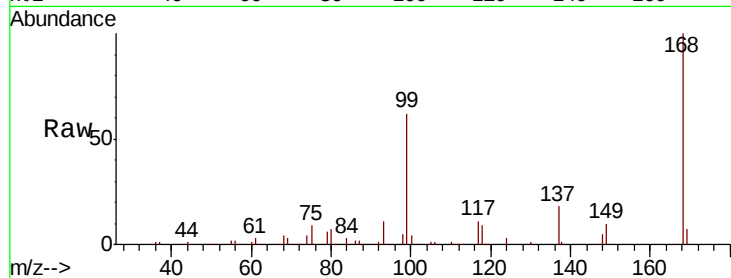
Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

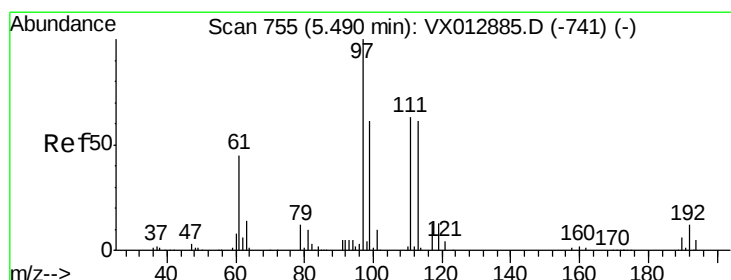
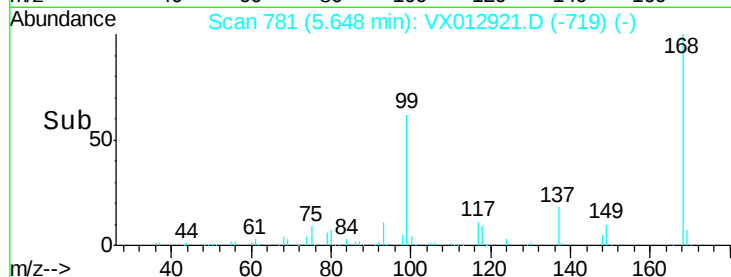
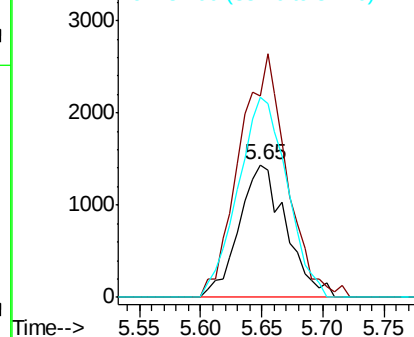
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3819

Ion	Ratio	Lower	Upper
56	100		
69	151.7	25.2	37.8#
84	150.6	71.3	106.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 0.972 ug/l

RT: 5.49 min Scan# 755

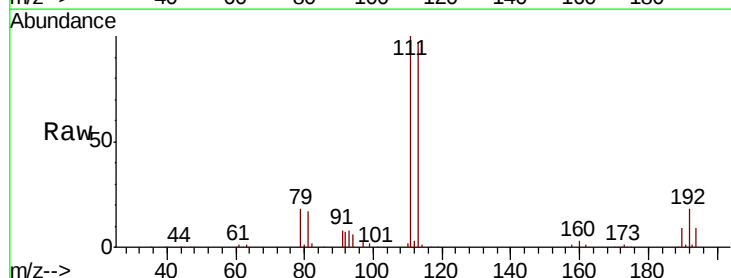
Delta R.T. -0.00 min

Lab File: VX012921.D

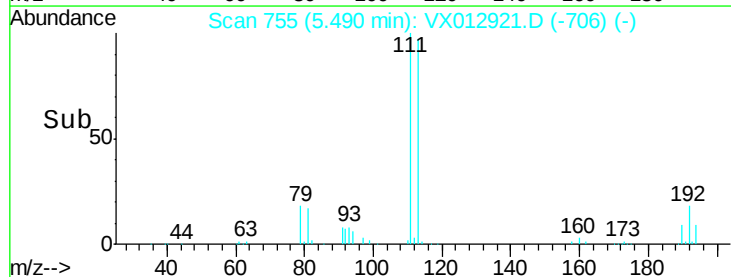
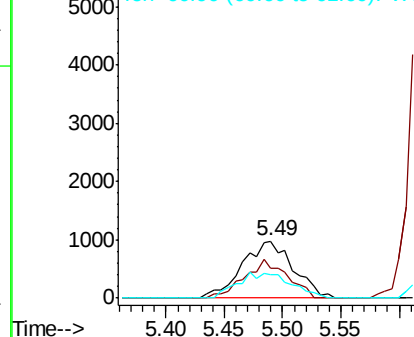
Acq: 09 Oct 2019 04:42

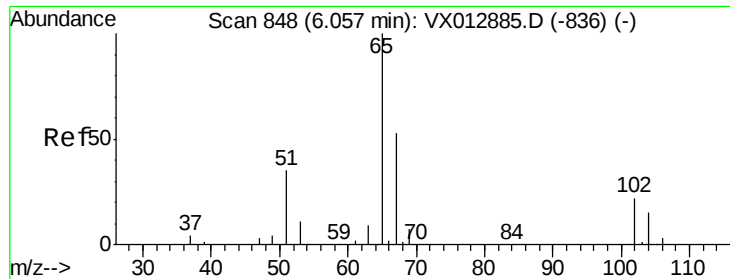
Tgt Ion: 97 Resp: 2973

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	46.8	35.0	52.4



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0

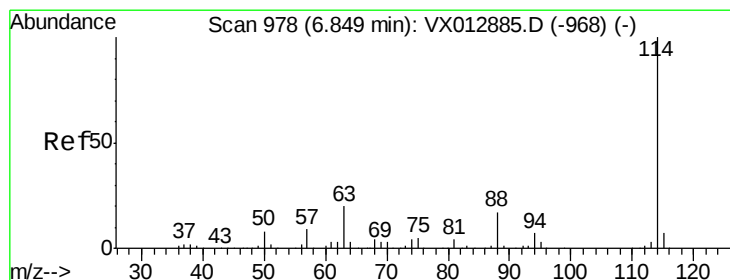
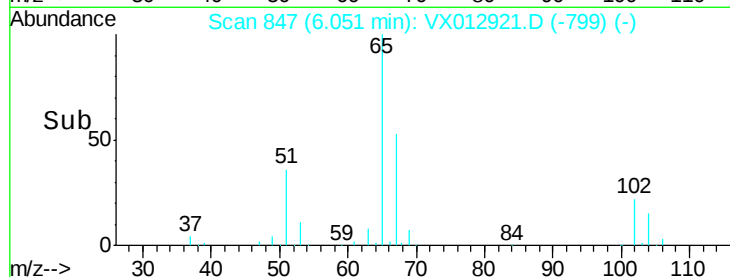
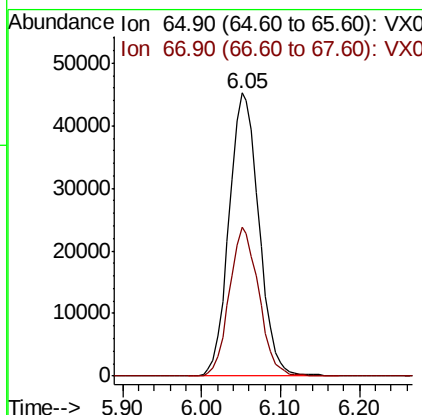
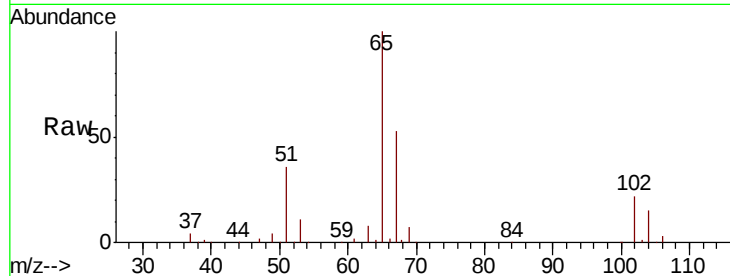




#33
 1,2-Dichloroethane-d4
 Concen: 52.488 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX012921.D
 Acq: 09 Oct 2019 04:42

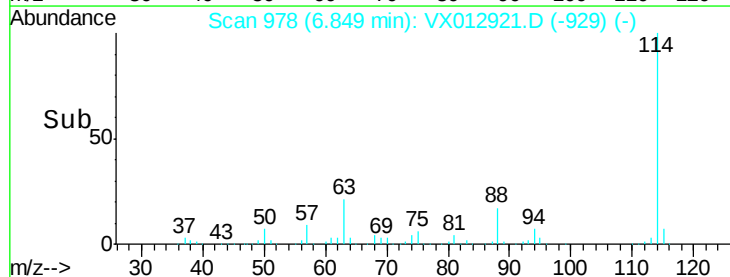
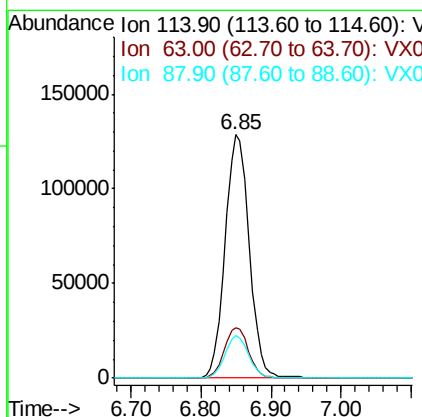
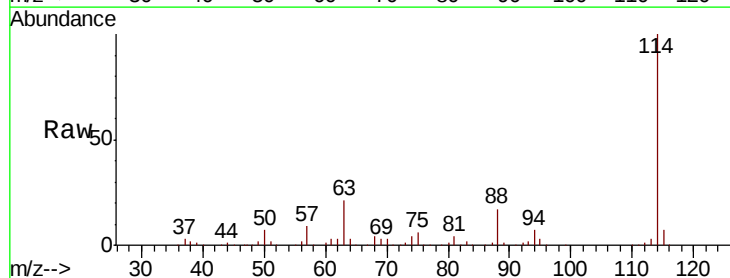
Instrument :
 MSVOA_X
 ClientSampled :

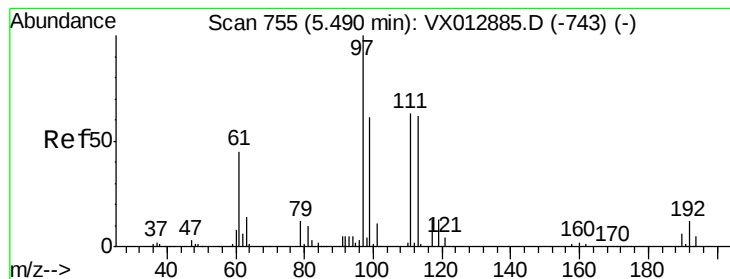
Tot Ion: 65 Resp: 119027
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012921.D
 Acq: 09 Oct 2019 04:42

Tgt Ion: 114 Resp: 309487
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 17.5 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.659 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Instrument :

MSVOA_X

ClientSampleId :

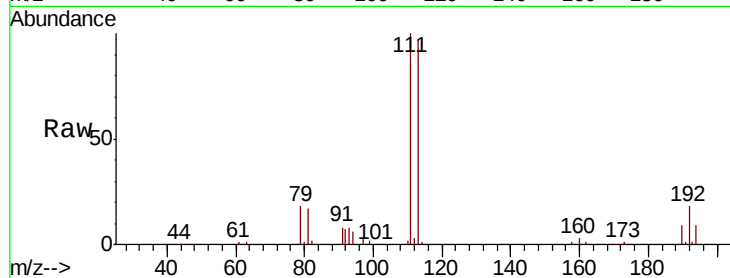
Tot Ion:113 Resp: 91762

Ion Ratio Lower Upper

113 100

111 102.1 83.2 124.8

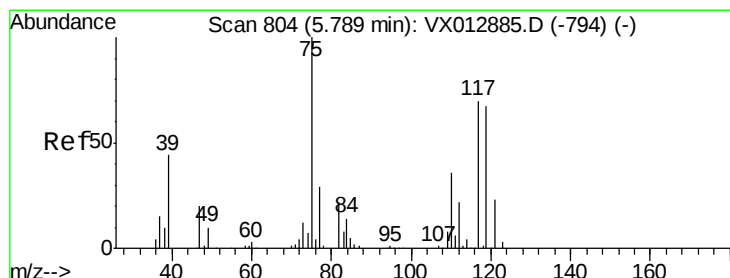
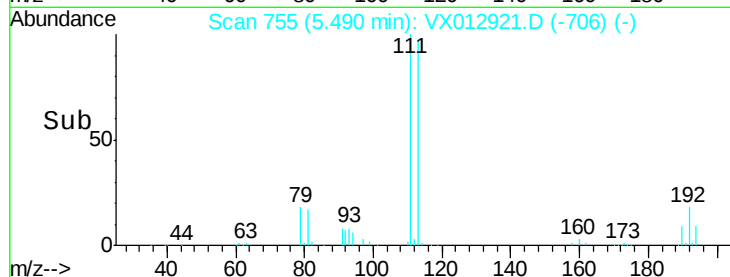
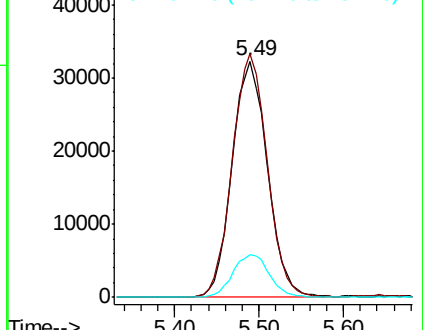
192 18.7 15.4 23.2



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: 5.373 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

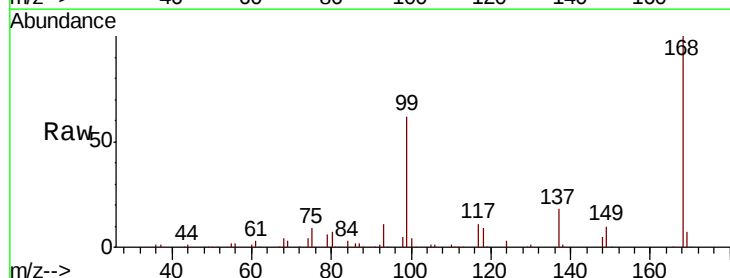
Tgt Ion: 75 Resp: 14621

Ion Ratio Lower Upper

75 100

110 10.1 17.6 52.9#

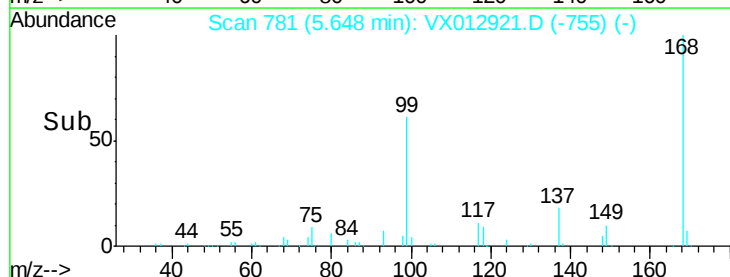
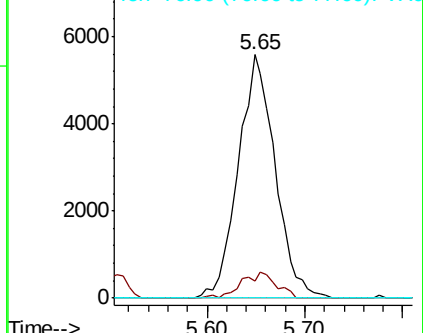
77 0.0 24.4 36.6#

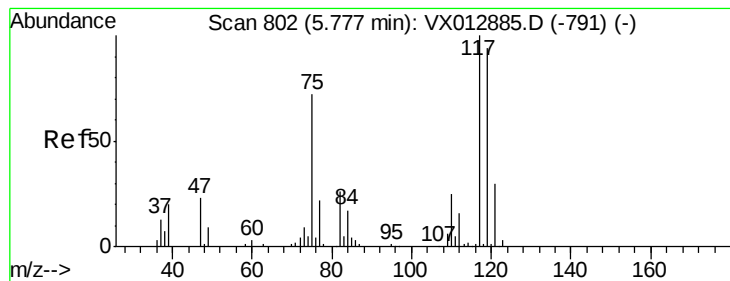


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.162 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Instrument :

MSVOA_X

ClientSampleId :

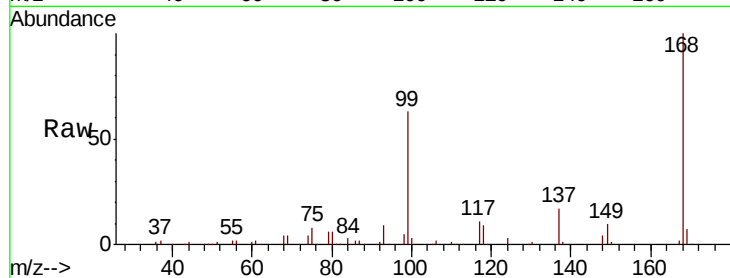
Tot Ion:117 Resp: 18969

Ion Ratio Lower Upper

117 100

119 4.3 74.5 111.7#

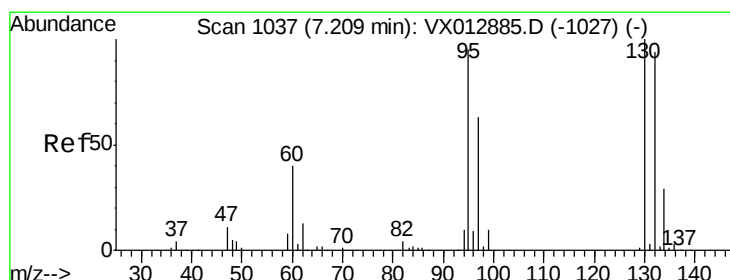
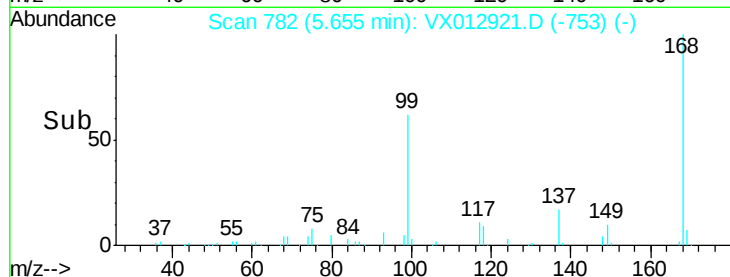
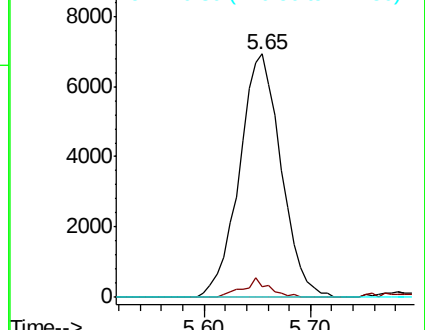
121 0.0 24.2 36.4#



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: 15.837 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX012921.D

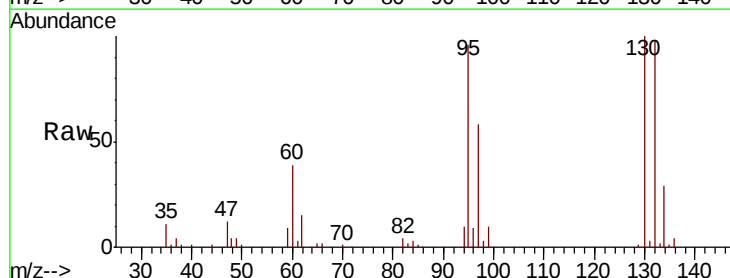
Acq: 09 Oct 2019 04:42

Tgt Ion:130 Resp: 35294

Ion Ratio Lower Upper

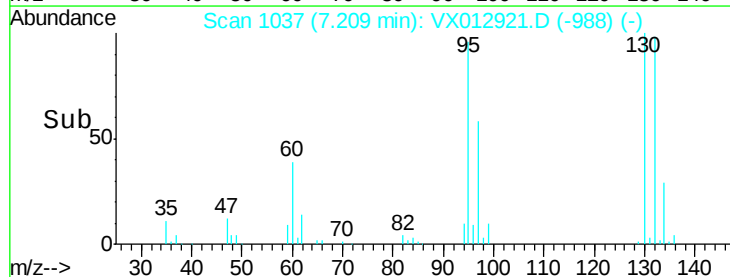
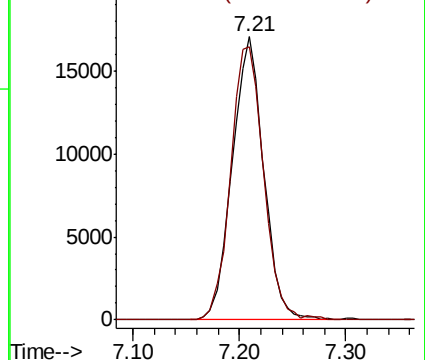
130 100

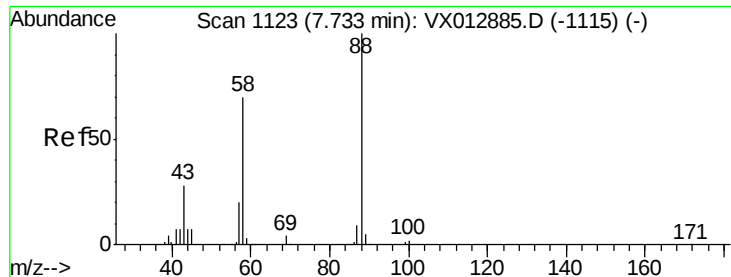
95 96.4 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

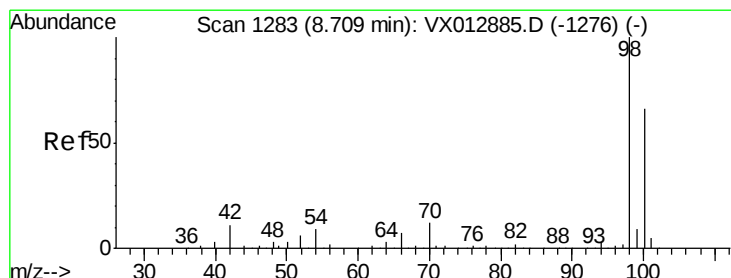
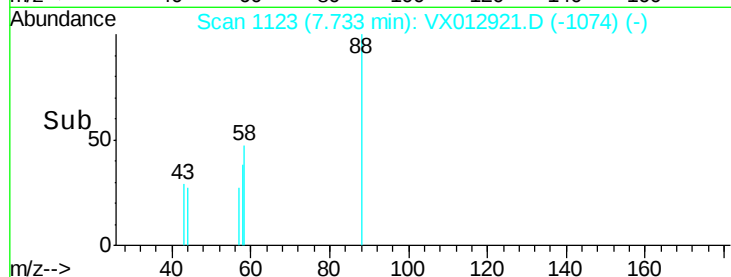
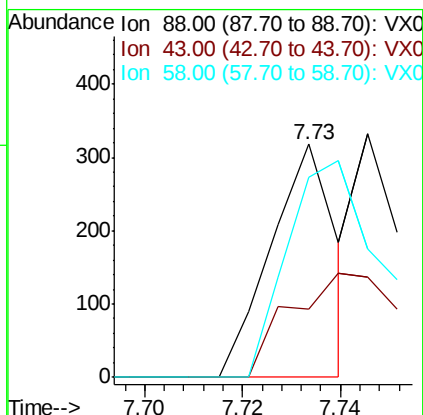
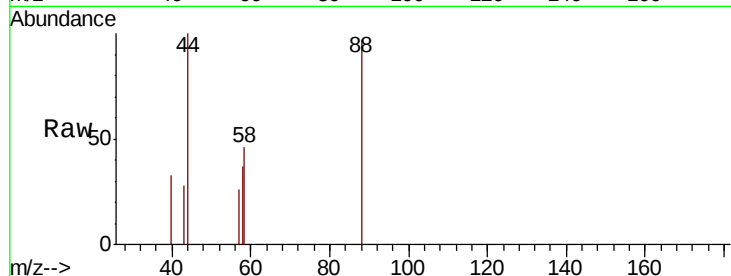




#49
1,4-Dioxane
Concen: 39.511 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX012921.D
Acq: 09 Oct 2019 04:42

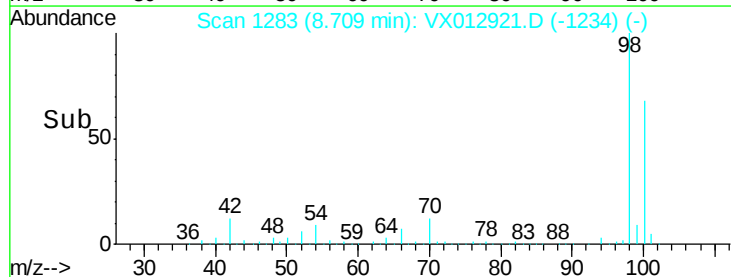
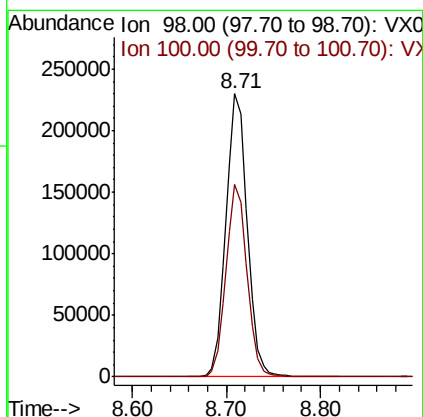
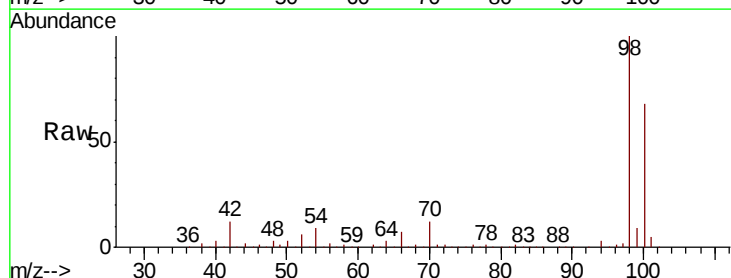
Instrument :
MSVOA_X
ClientSampleId :

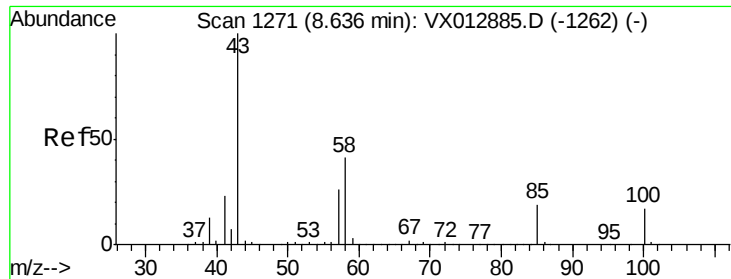
Tot Ion: 88 Resp: 293
Ion Ratio Lower Upper
88 100
43 89.8 25.0 37.6#
58 126.6 55.4 83.2#



#50
Toluene-d8
Concen: 52.197 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012921.D
Acq: 09 Oct 2019 04:42

Tgt Ion: 98 Resp: 361621
Ion Ratio Lower Upper
98 100
100 67.2 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 0.538 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Instrument :

MSVOA_X

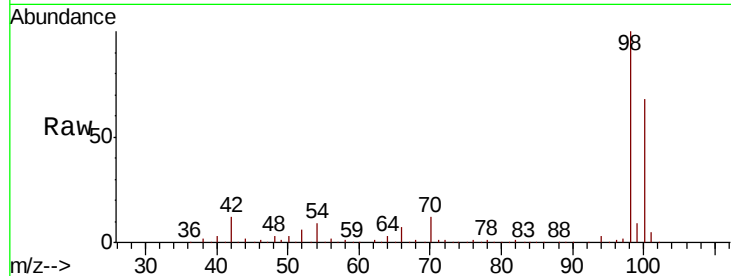
ClientSampleId :

Tot Ion: 43 Resp: 1637

Ion Ratio Lower Upper

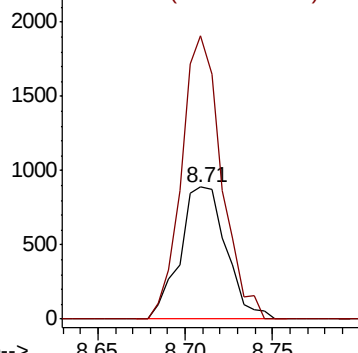
43 100

58 185.5 32.4 48.6#

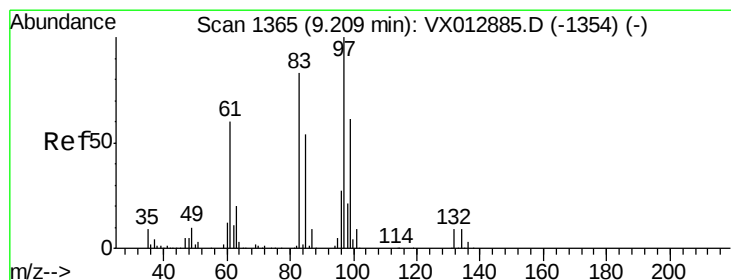
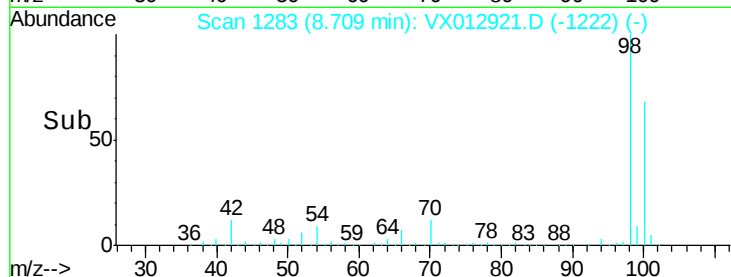


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#55

1,1,2-Trichloroethane

Concen: 0.257 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.12 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Tgt Ion: 97 Resp: 523

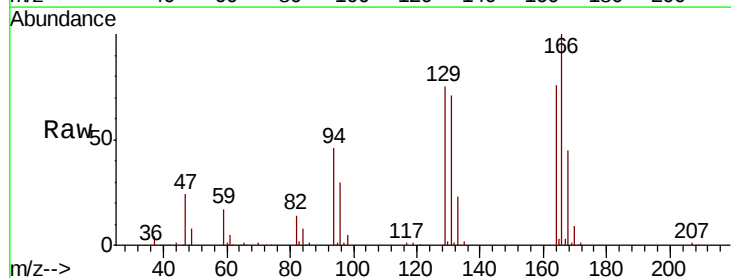
Ion Ratio Lower Upper

97 100

83 382.4 66.5 99.7#

85 47.3 43.1 64.7

99 0.0 49.2 73.8#

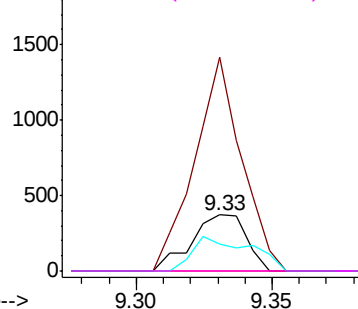


Abundance Ion 96.90 (96.60 to 97.60): VX0

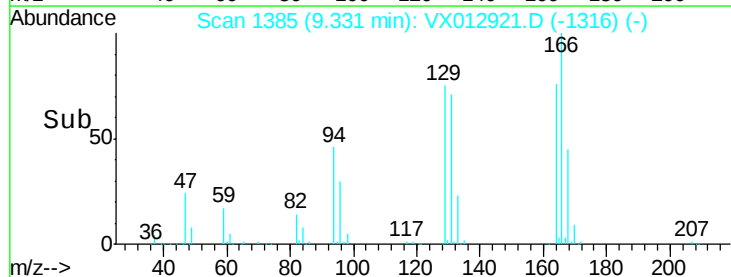
Ion 82.90 (82.60 to 83.60): VX0

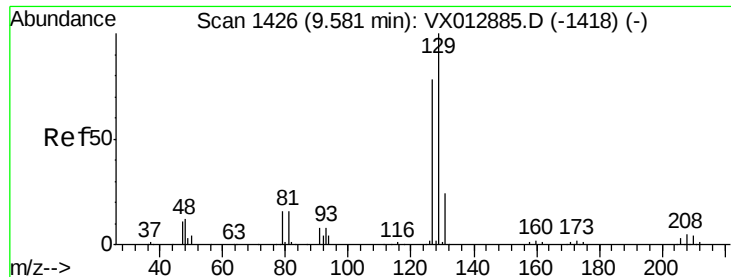
Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



Time-->





#60

Dibromochloromethane

Concen: 30.532 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

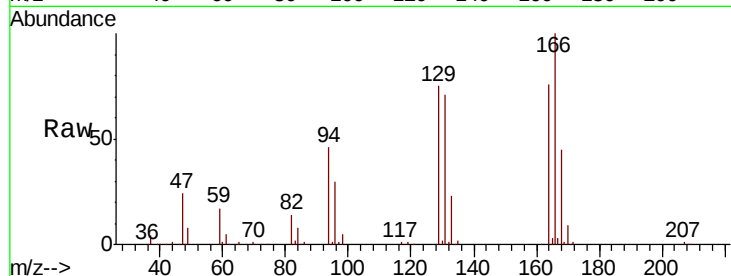
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 67432

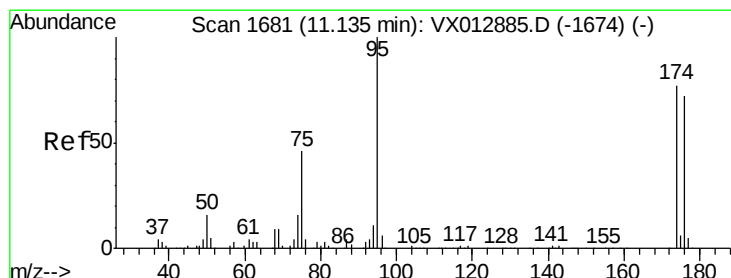
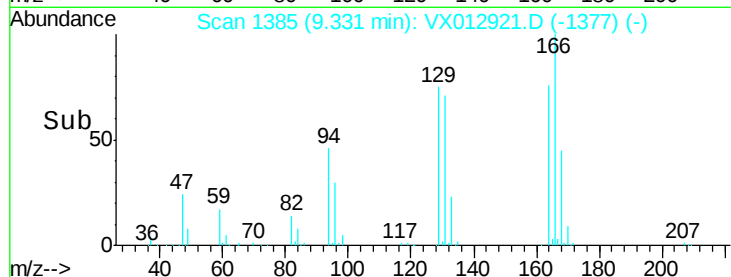
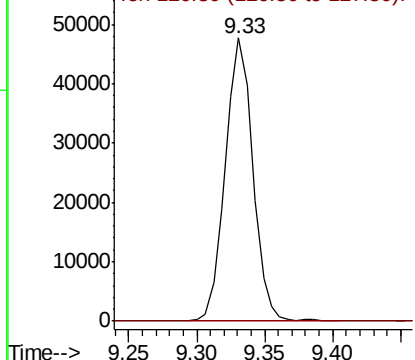
Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.878 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

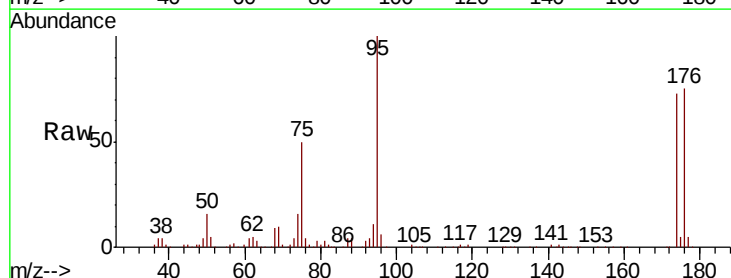
Tgt Ion: 95 Resp: 123499

Ion Ratio Lower Upper

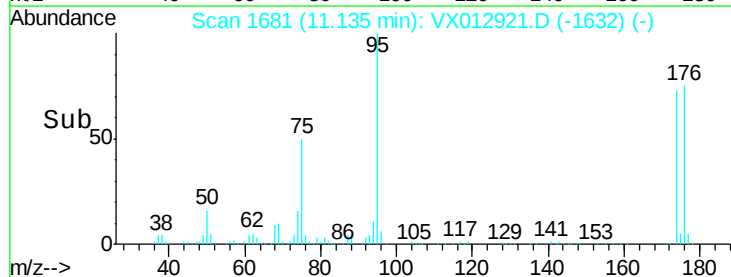
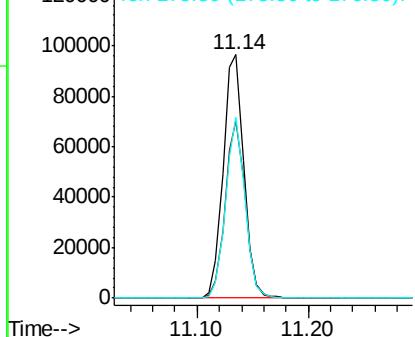
95 100

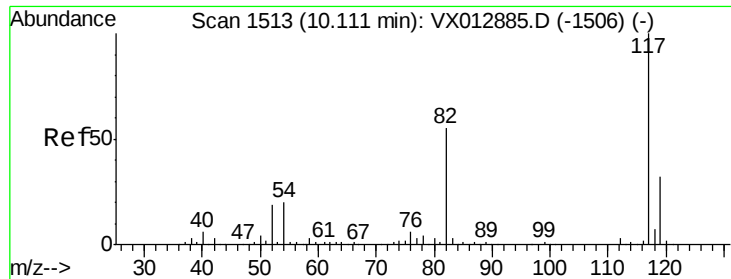
174 70.6 0.0 143.4

176 69.4 0.0 136.0



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

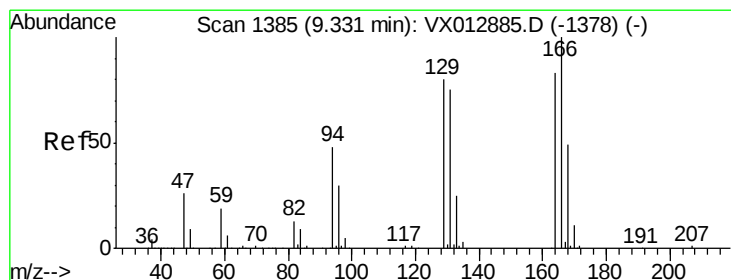
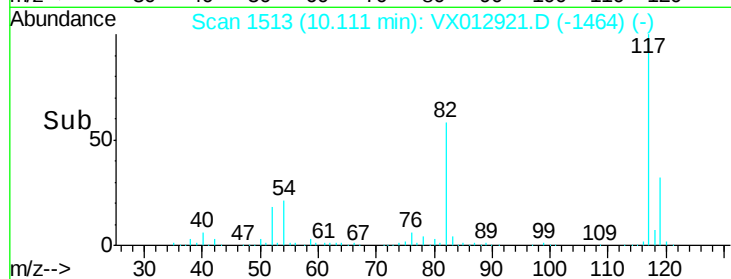
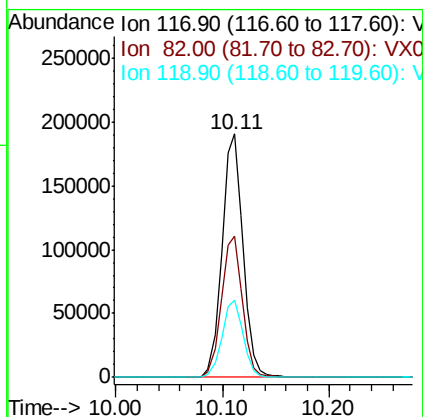
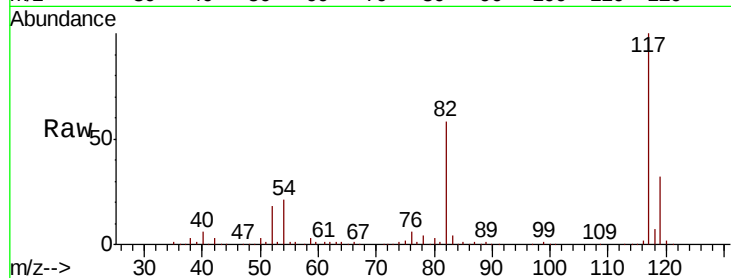




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012921.D
Acq: 09 Oct 2019 04:42

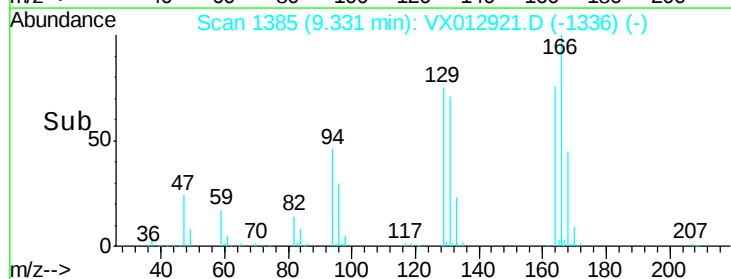
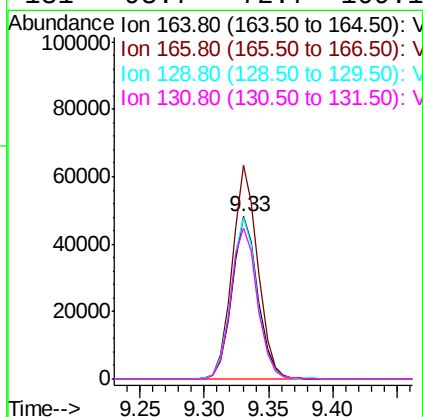
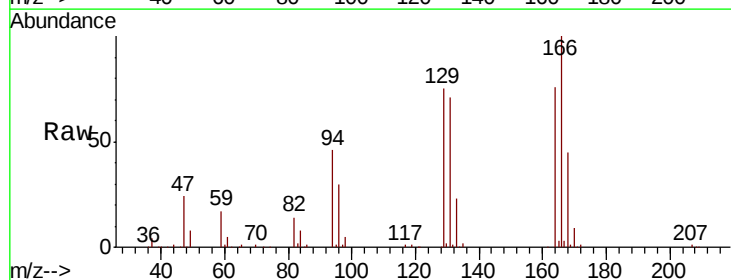
Instrument :
MSVOA_X
ClientSampled :

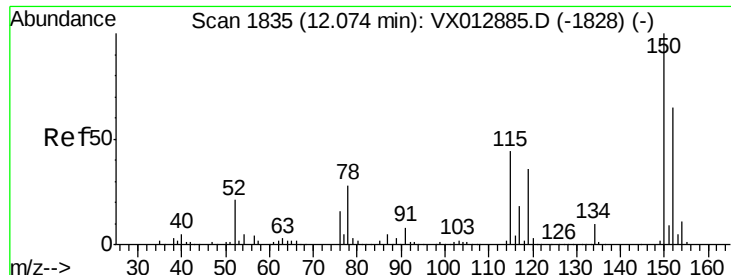
Tot Ion:117 Resp: 260876
Ion Ratio Lower Upper
117 100
82 57.8 44.1 66.1
119 31.9 25.8 38.8



#64
Tetrachloroethene
Concen: 37.335 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX012921.D
Acq: 09 Oct 2019 04:42

Tgt Ion:164 Resp: 67555
Ion Ratio Lower Upper
164 100
166 131.9 96.9 145.3
129 99.3 77.9 116.9
131 93.7 72.7 109.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Instrument :

MSVOA_X

ClientSampleId :

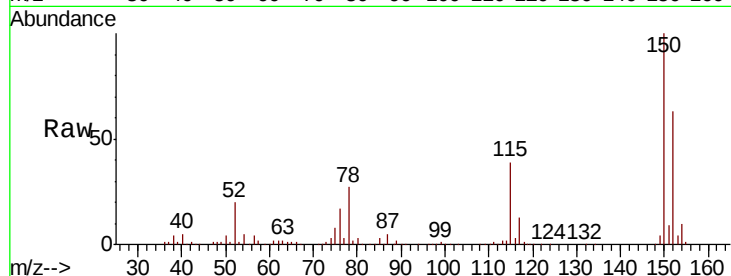
Tot Ion:152 Resp: 103756

Ion Ratio Lower Upper

152 100

115 62.9 44.5 133.5

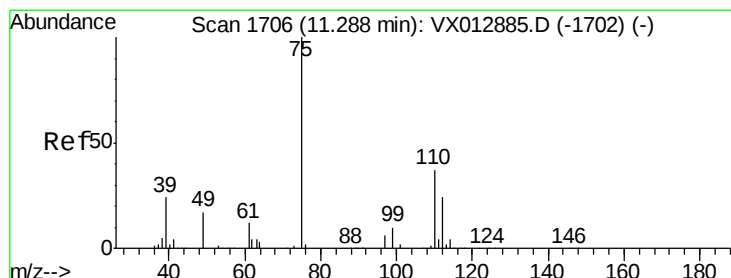
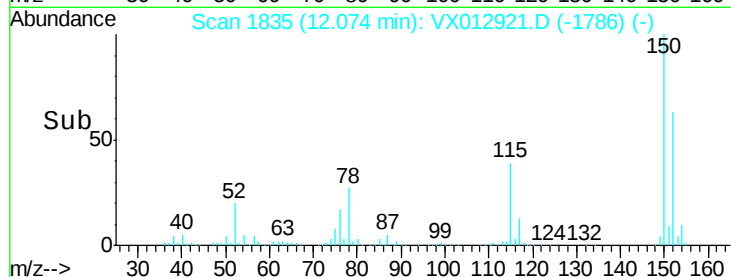
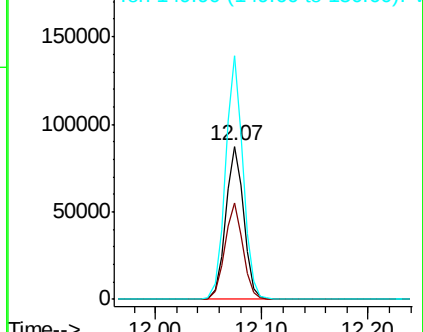
150 154.4 0.0 353.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 27.249 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX012921.D

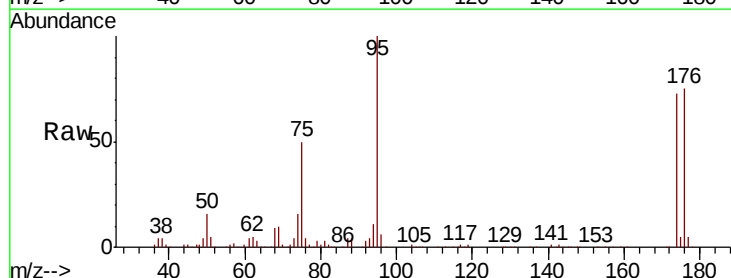
Acq: 09 Oct 2019 04:42

Tgt Ion: 75 Resp: 62707

Ion Ratio Lower Upper

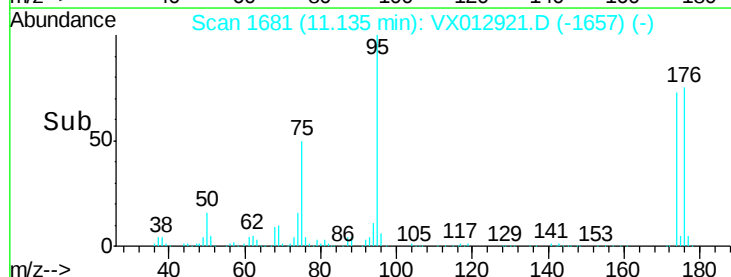
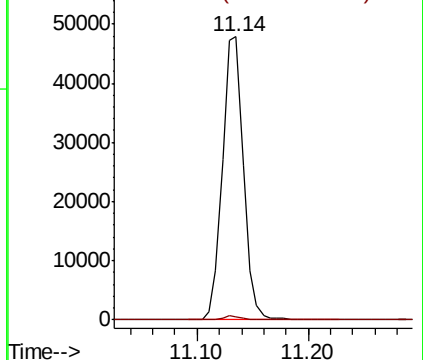
75 100

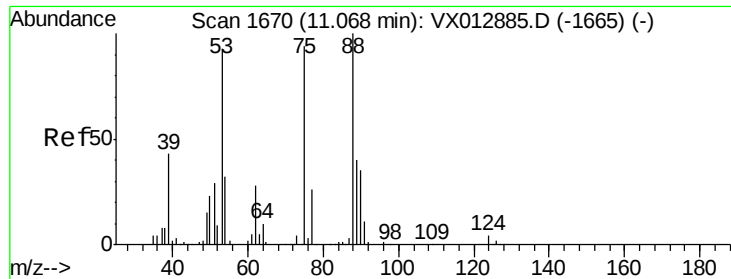
77 1.3 22.9 68.8#



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: 68.430 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012921.D

Acq: 09 Oct 2019 04:42

Instrument :

MSVOA_X

ClientSampleId :

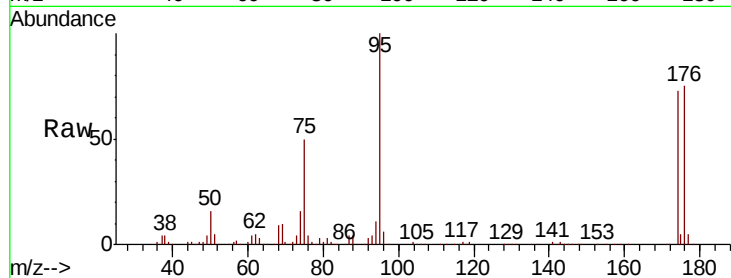
Tot Ion: 75 Resp: 62707

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

