

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021820\
 Data File : VX014952.D
 Acq On : 18 Feb 2020 12:23
 Operator : JC/SP
 Sample : L1564-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-200217

Quant Time: Feb 19 00:16:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	433765	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	678518	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	641303	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	332929	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	244622	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	5.49	113	206695	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
50) Toluene-d8	8.71	98	805841	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	11.14	95	297343	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	

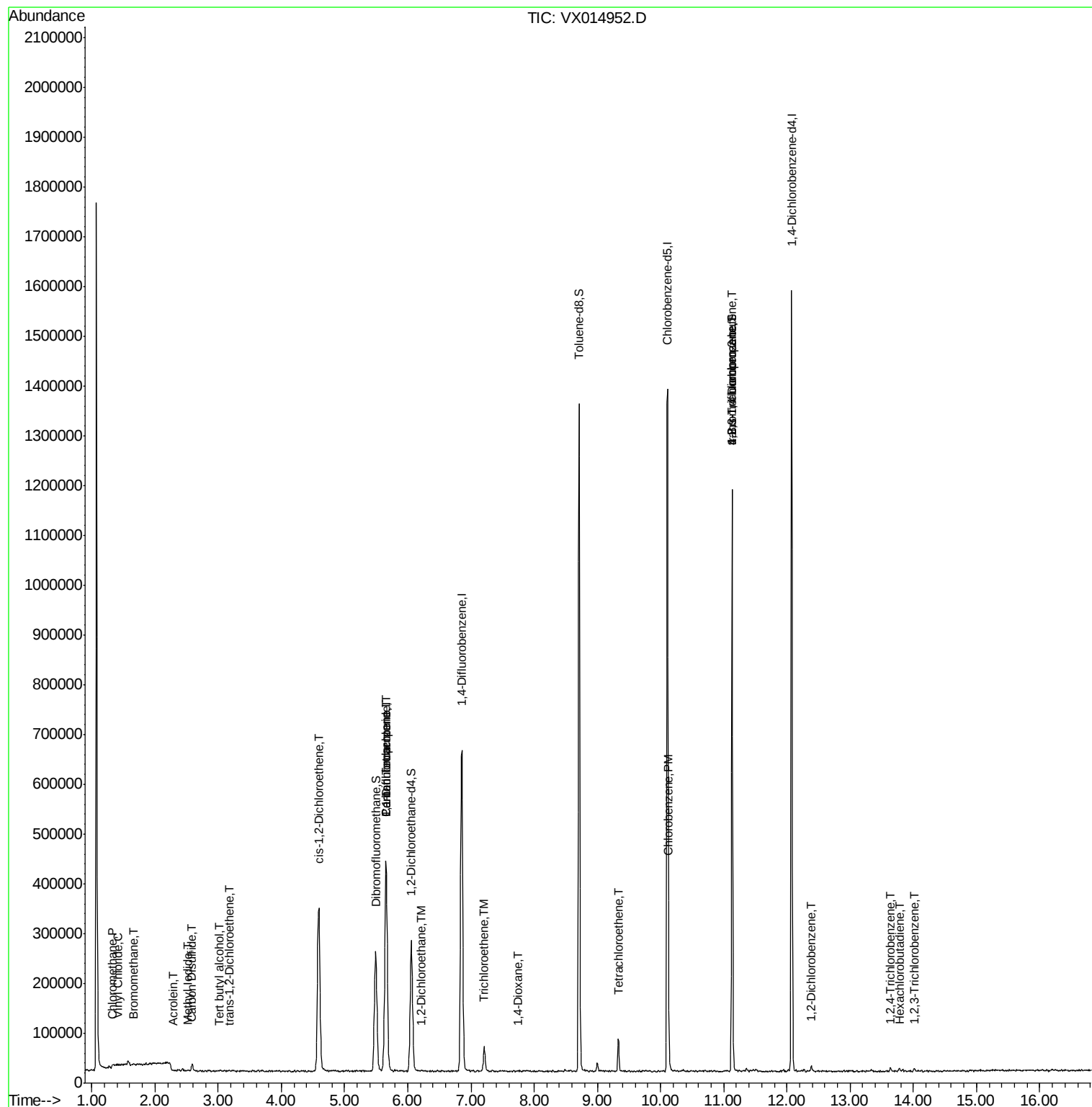
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1242	0.267	ug/l #	67
4) Vinyl Chloride	1.40	62	1434	0.286	ug/l #	83
5) Bromomethane	1.66	94	1249	0.385	ug/l #	69
10) Methyl Iodide	2.51	142	2339	4.839	ug/l #	80
11) Tert butyl alcohol	3.03	59	1168	1.351	ug/l #	1
13) Acrolein	2.28	56	249	0.378	ug/l #	1
16) Acetone	2.43	43	5842	Below Cal	#	88
17) Carbon Disulfide	2.57	76	2858	0.257	ug/l #	76
21) trans-1,2-Dichloroethene	3.17	96	1486	0.339	ug/l #	64
27) cis-1,2-Dichloroethene	4.59	96	218090	44.472	ug/l	89
36) 1,1-Dichloropropene	5.65	75	29554	4.869	ug/l #	52
38) Carbon Tetrachloride	5.65	117	37966	6.419	ug/l #	17
42) 1,2-Dichloroethane	6.21	62	1736	0.265	ug/l	95
44) Trichloroethene	7.21	130	20097	3.817	ug/l	99
49) 1,4-Dioxane	7.75	88	86	0.895	ug/l #	1
64) Tetrachloroethene	9.34	164	13768	2.296	ug/l	94
65) Chlorobenzene	10.13	112	19411	1.492	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	147494	24.499	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	147494	62.710	ug/l #	12
91) 1,2-Dichlorobenzene	12.39	146	2088	0.204	ug/l	94
93) 1,2,4-Trichlorobenzene	13.65	180	2199	0.291	ug/l #	93
94) Hexachlorobutadiene	13.78	225	971	0.265	ug/l	64
96) 1,2,3-Trichlorobenzene	14.01	180	1877	0.257	ug/l	91

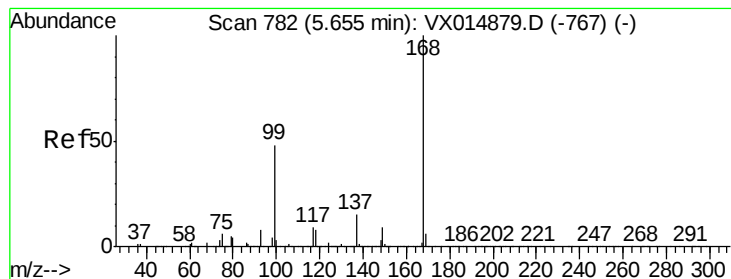
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 2020
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: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

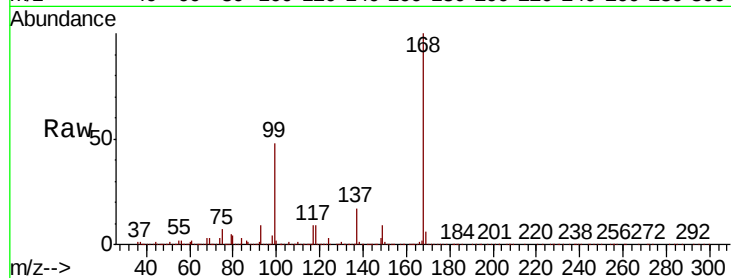
KY038PS027-200217

Tot Ion:168 Resp: 433765

Ion Ratio Lower Upper

168 100

99 47.8 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

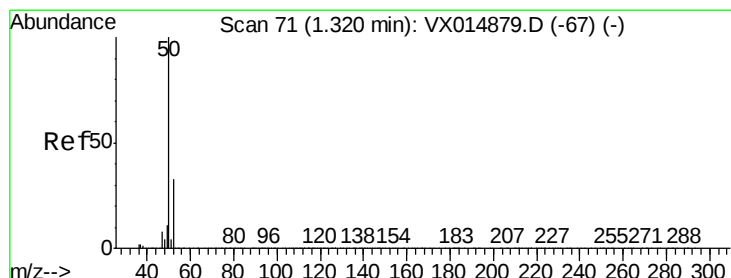
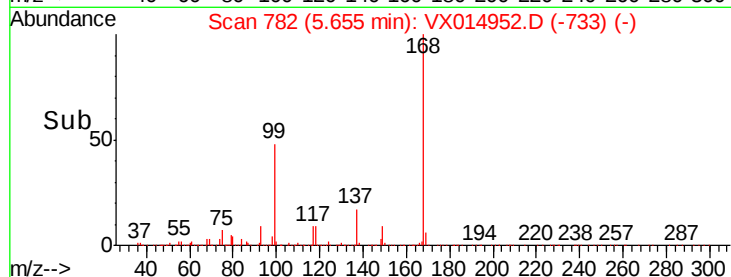
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.267 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014952.D

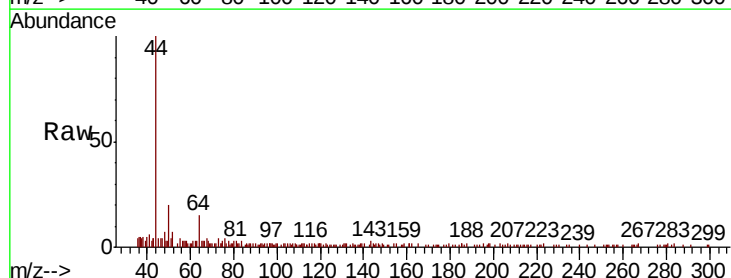
Acq: 18 Feb 2020 12:23

Tgt Ion: 50 Resp: 1242

Ion Ratio Lower Upper

50 100

52 14.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1500

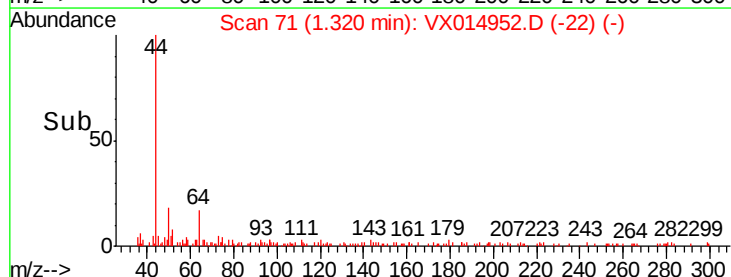
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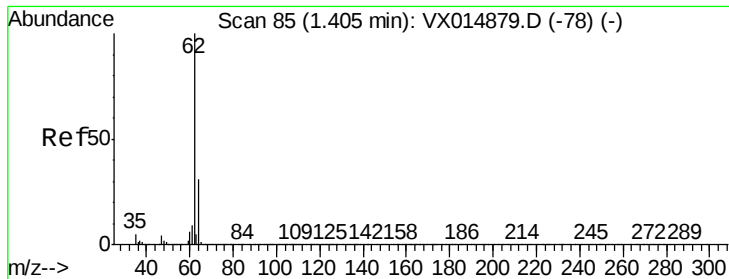
500

0

Time-->

1.30 1.32 1.34





#4

Vinyl Chloride

Concen: 0.286 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.01 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

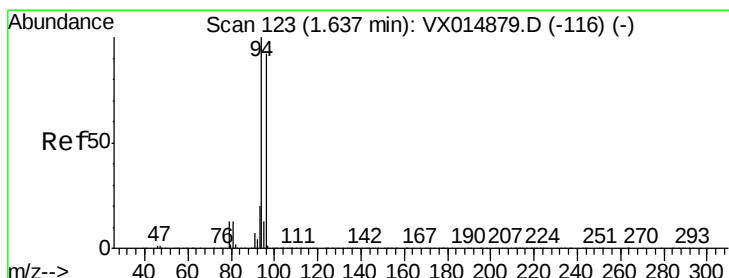
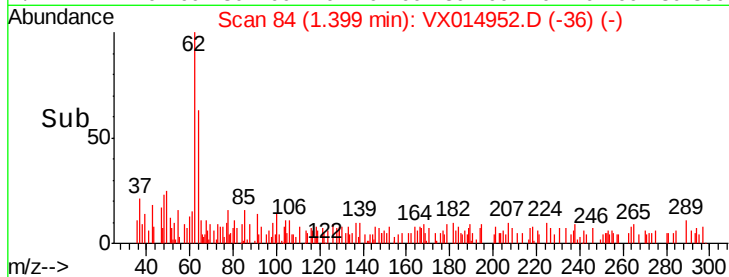
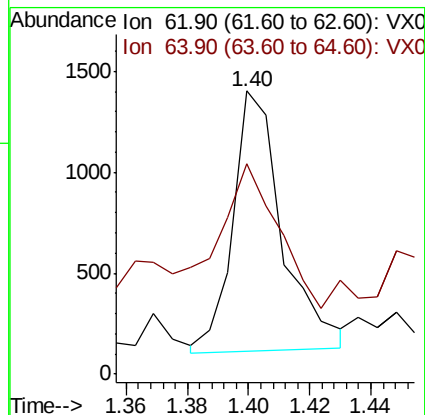
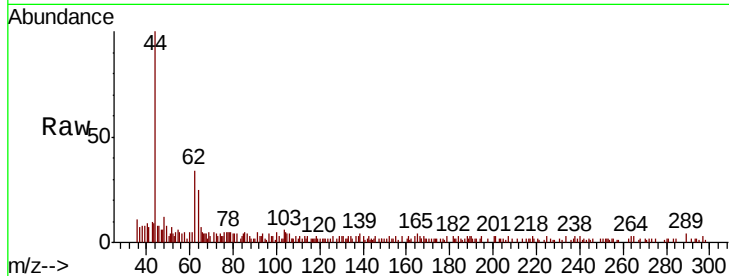
KY038PS027-200217

Tot Ion: 62 Resp: 1434

Ion Ratio Lower Upper

62 100

64 40.5 24.8 37.2#



#5

Bromomethane

Concen: 0.385 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014952.D

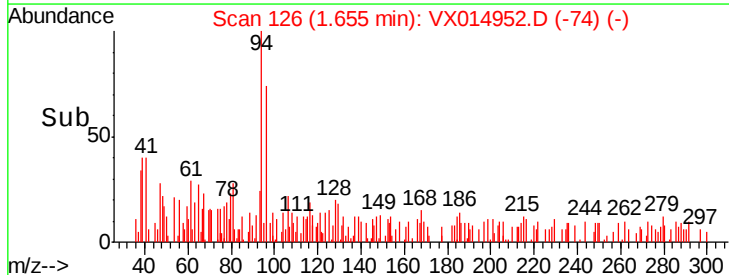
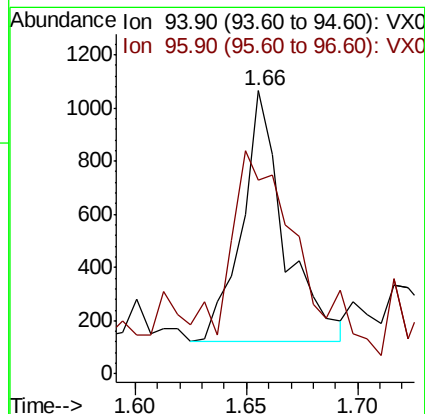
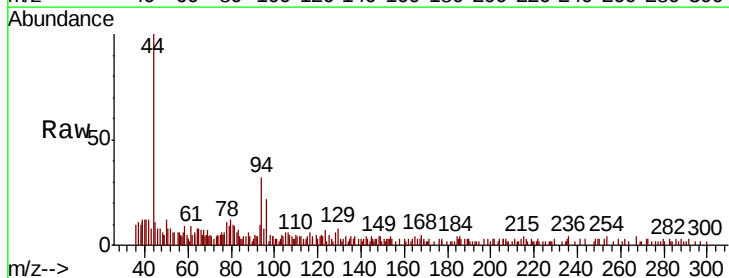
Acq: 18 Feb 2020 12:23

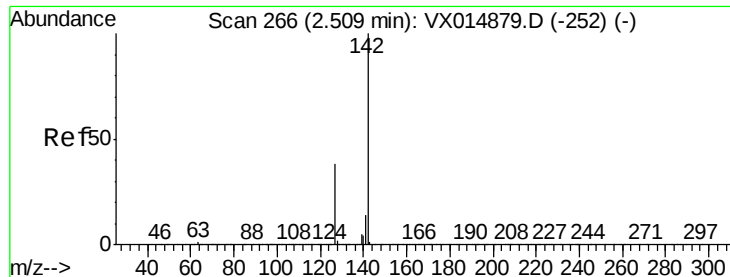
Tgt Ion: 94 Resp: 1249

Ion Ratio Lower Upper

94 100

96 62.6 73.7 110.5#

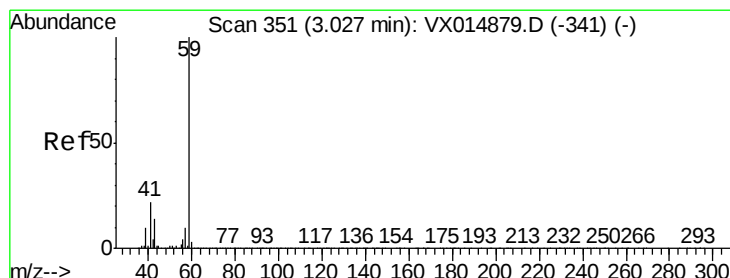
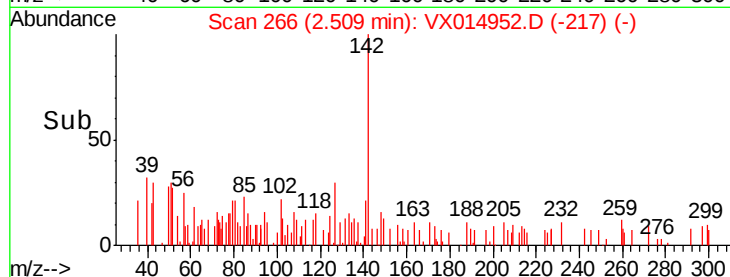
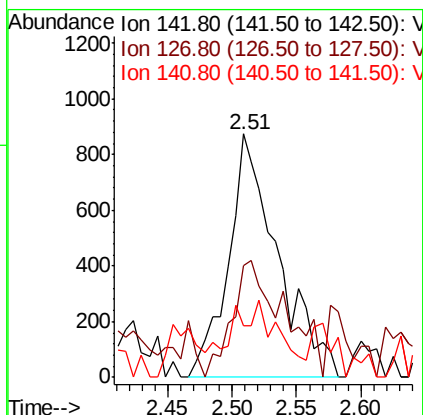
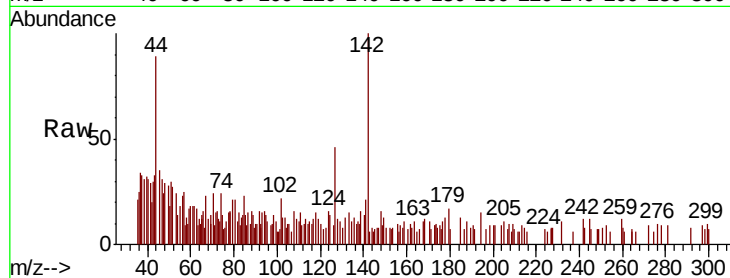




#10
Methyl Iodide
Concen: 4.839 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

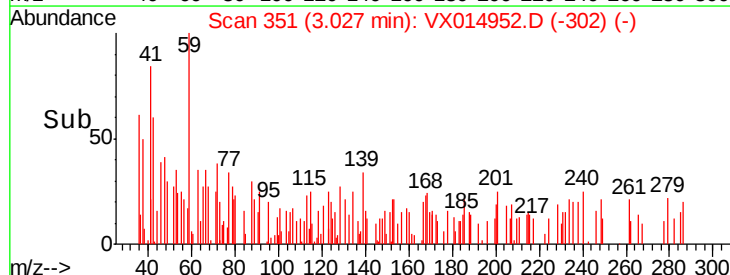
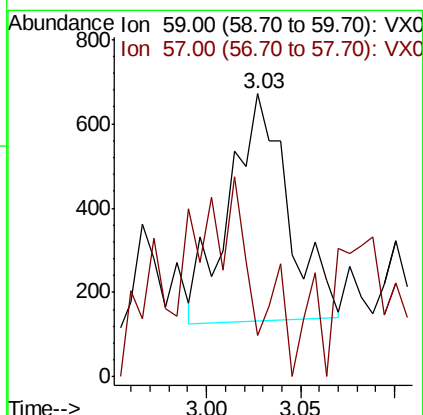
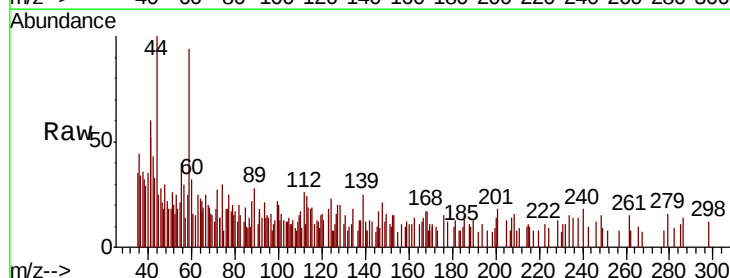
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-200217

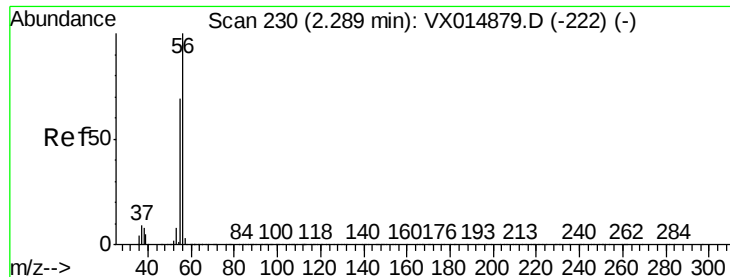
Tot Ion:142 Resp: 2339
Ion Ratio Lower Upper
142 100
127 50.4 31.1 46.7#
141 5.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.351 ug/l
RT: 3.03 min Scan# 351
Delta R.T. 0.00 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

Tgt Ion: 59 Resp: 1168
Ion Ratio Lower Upper
59 100
57 82.4 8.2 12.4#





#13

Acrolein

Concen: 0.378 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.01 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

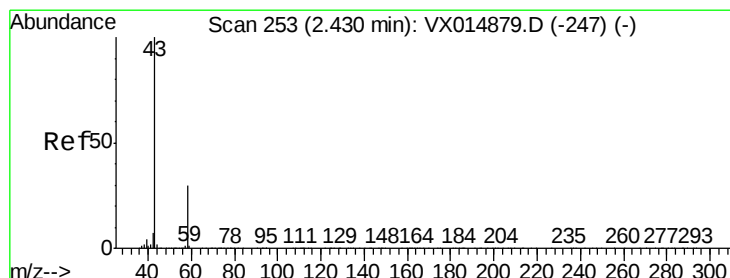
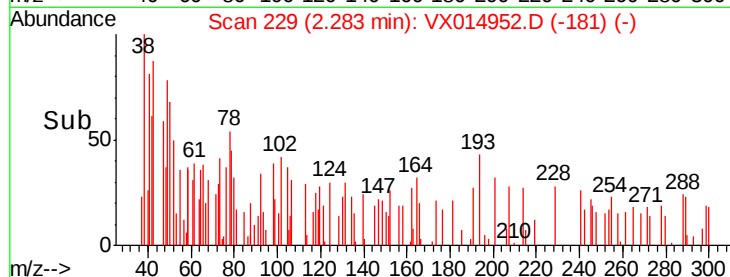
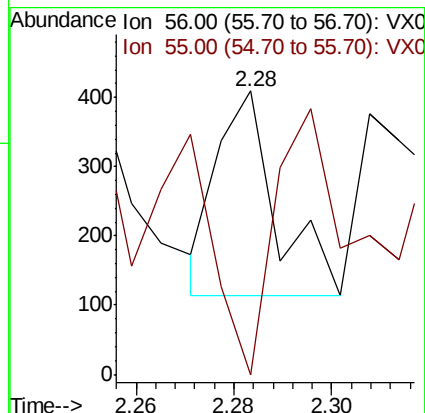
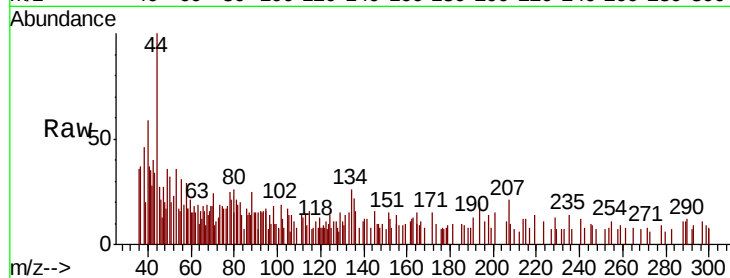
KY038PS027-200217

Tot Ion: 56 Resp: 249

Ion Ratio Lower Upper

56 100

55 180.7 55.0 82.4#



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014952.D

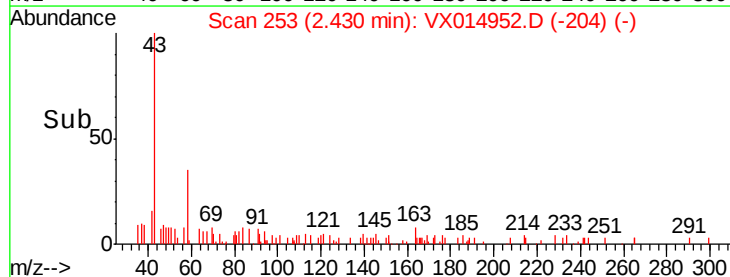
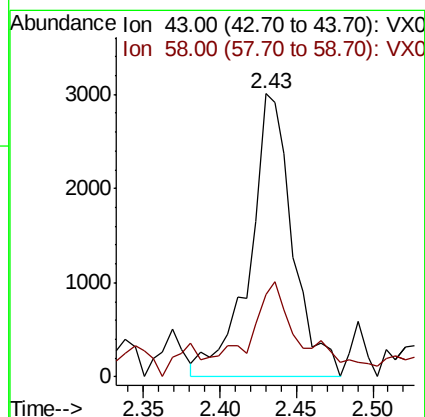
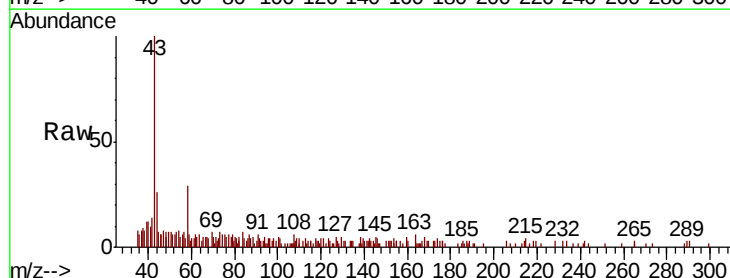
Acq: 18 Feb 2020 12:23

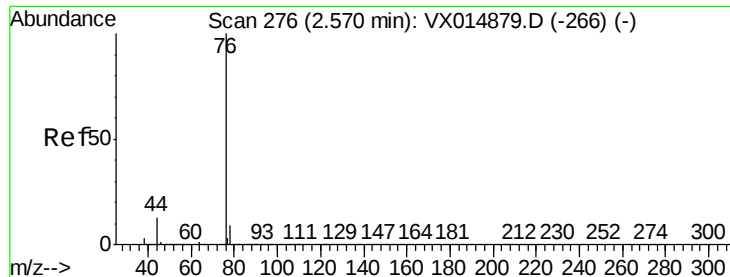
Tgt Ion: 43 Resp: 5842

Ion Ratio Lower Upper

43 100

58 23.7 24.1 36.1#





#17

Carbon Disulfide

Concen: 0.257 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.00 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

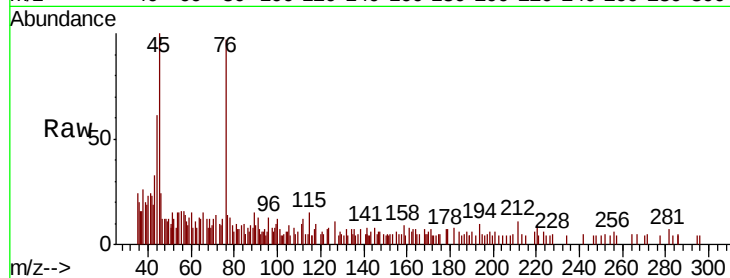
KY038PS027-200217

Tot Ion: 76 Resp: 2858

Ion Ratio Lower Upper

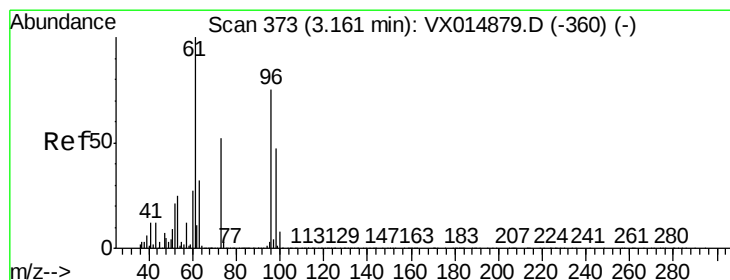
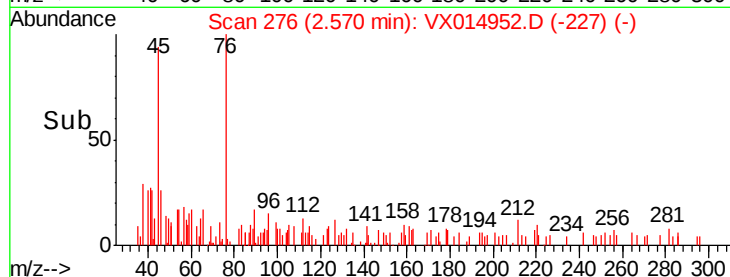
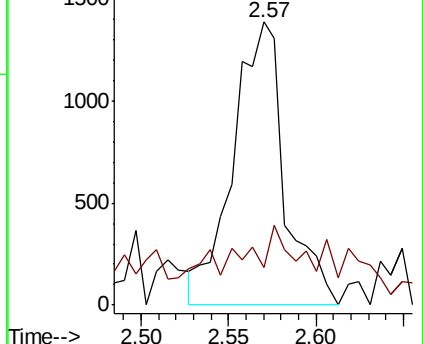
76 100

78 0.3 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.339 ug/l

RT: 3.17 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

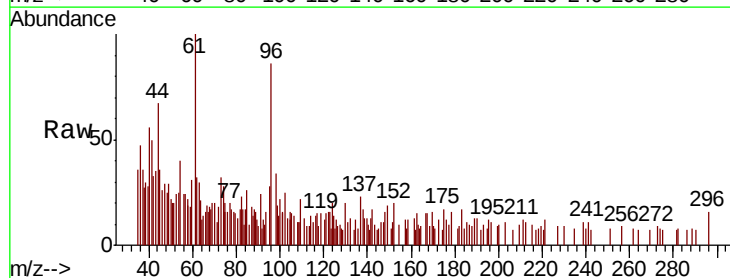
Tgt Ion: 96 Resp: 1486

Ion Ratio Lower Upper

96 100

61 94.9 106.9 160.3#

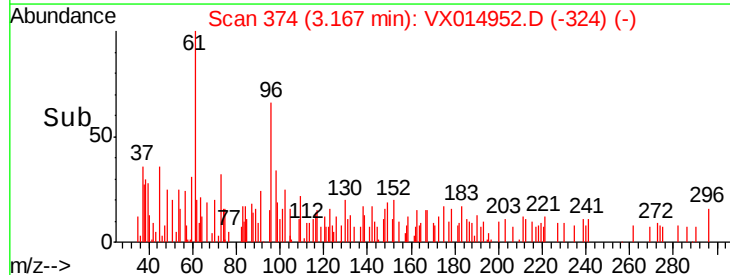
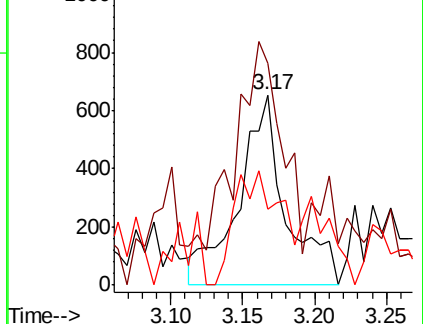
98 29.6 50.7 76.1#

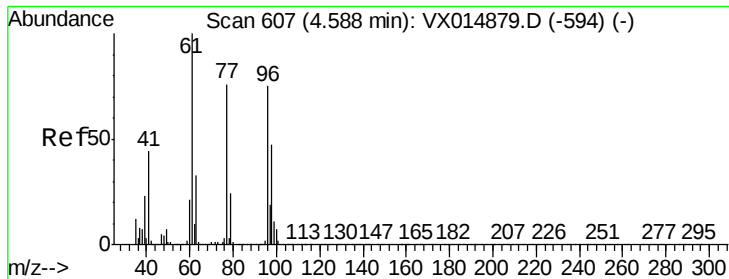


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



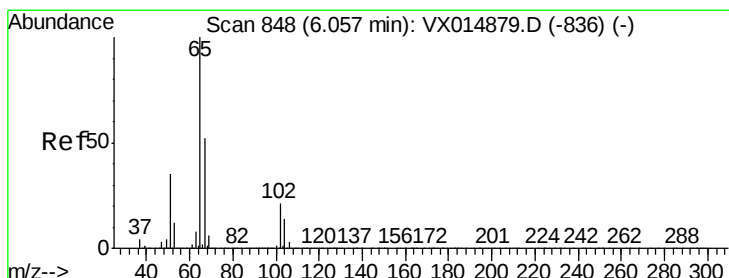
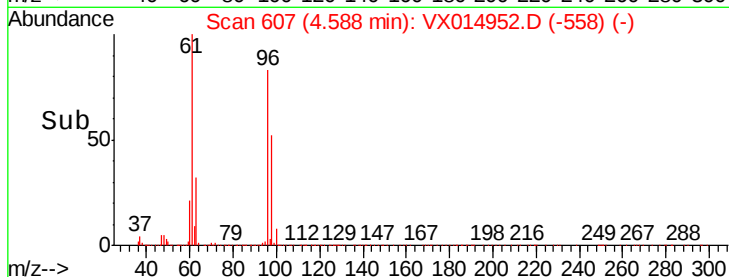
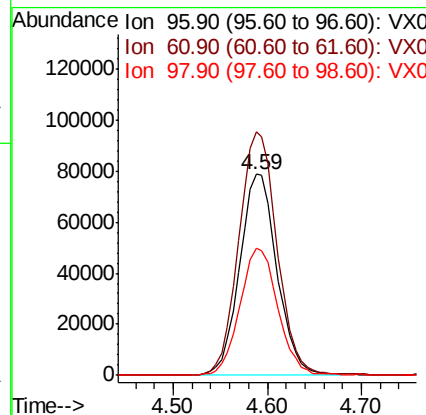
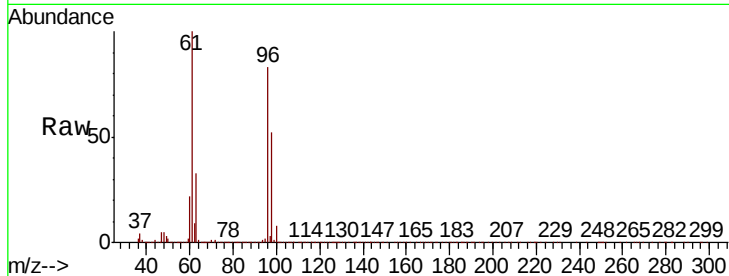


#27

cis-1,2-Dichloroethene
Concen: 44.472 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.00 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

Instrument :
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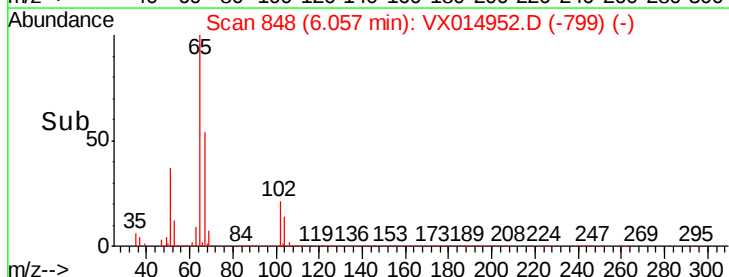
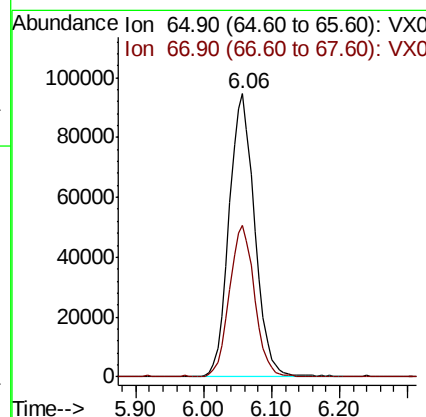
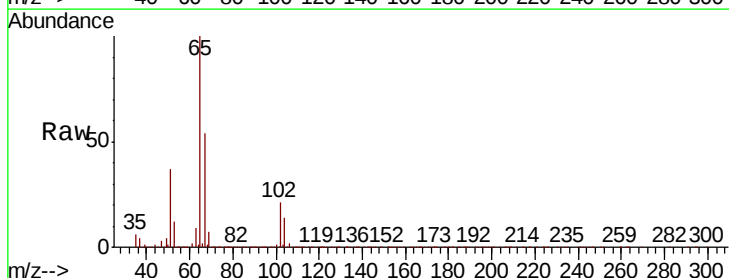
Tot Ion	Ratio	Lower	Upper
96	100		
61	123.7	0.0	286.2
98	64.2	0.0	131.0

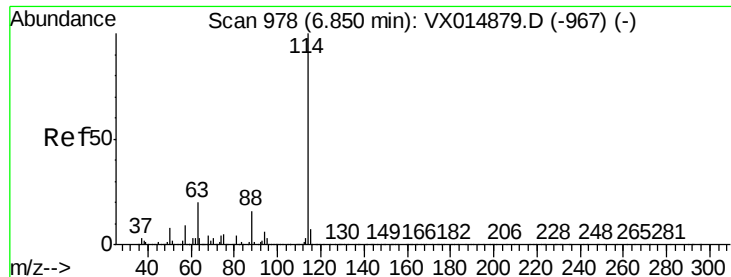


#33

1,2-Dichloroethane-d4
Concen: 49.970 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.00 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-200217

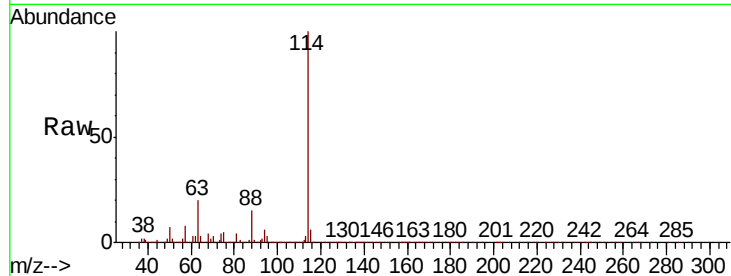
Tot Ion:114 Resp: 678518

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

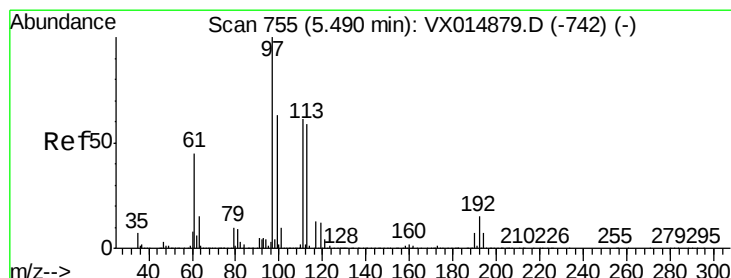
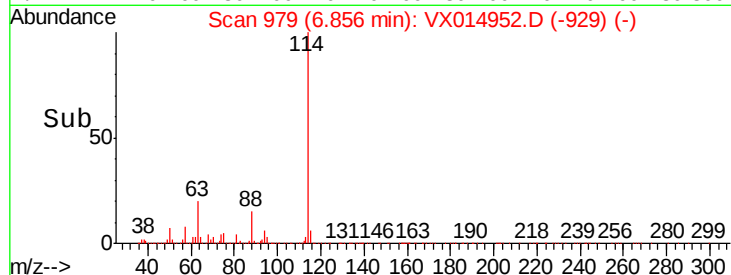
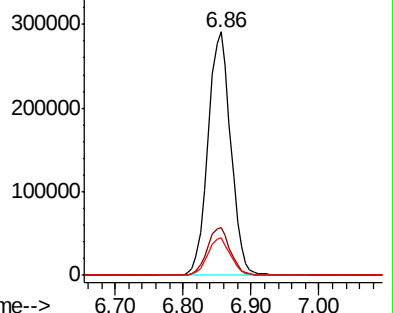
88 15.1 0.0 32.0



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



#35

Dibromofluoromethane

Concen: 49.551 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

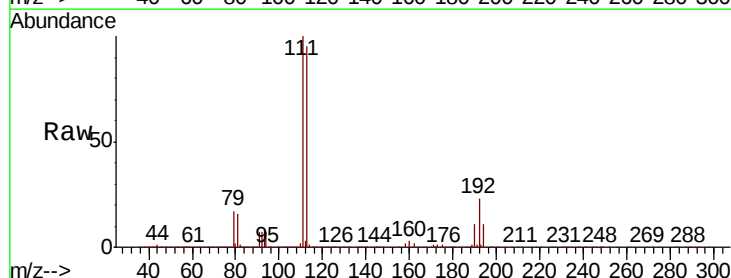
Tgt Ion:113 Resp: 206695

Ion Ratio Lower Upper

113 100

111 103.1 82.4 123.6

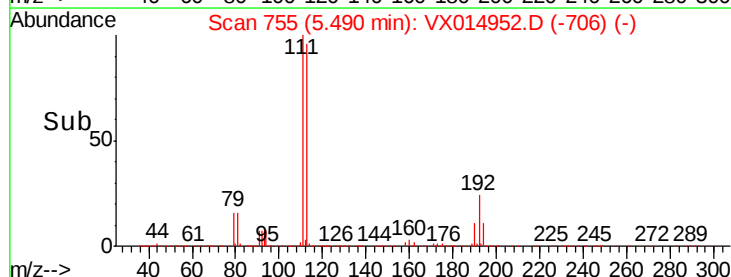
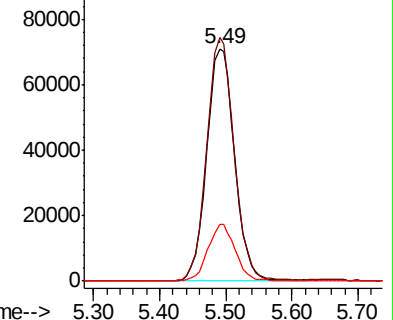
192 23.7 19.1 28.7

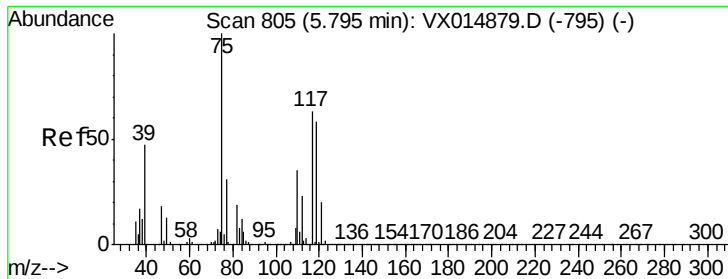


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

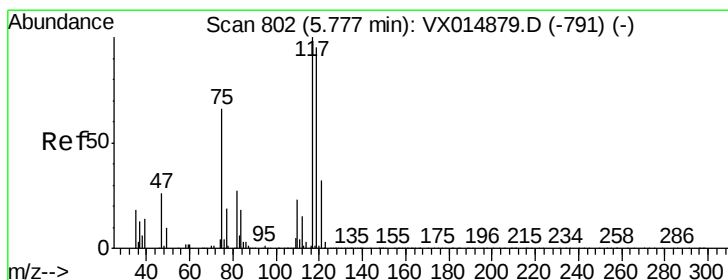
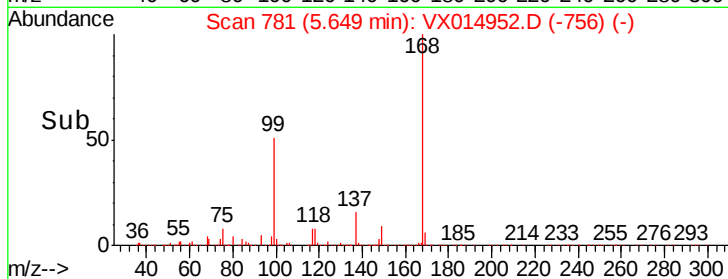
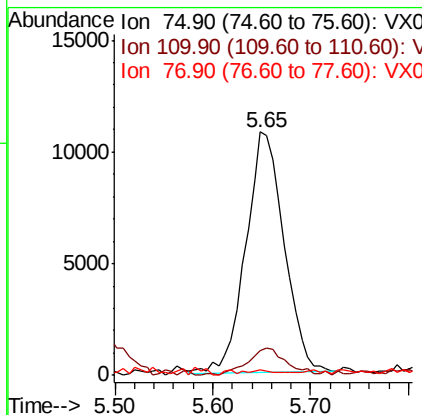
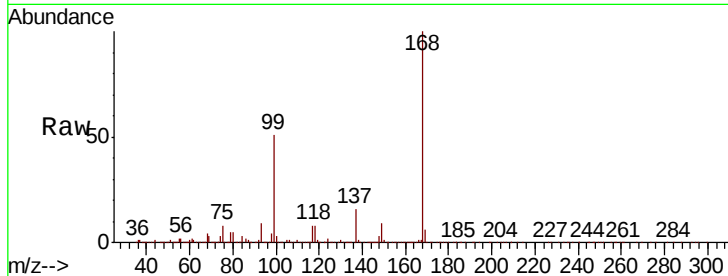




#36
 1,1-Dichloropropene
 Concen: 4.869 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014952.D
 Acq: 18 Feb 2020 12:23

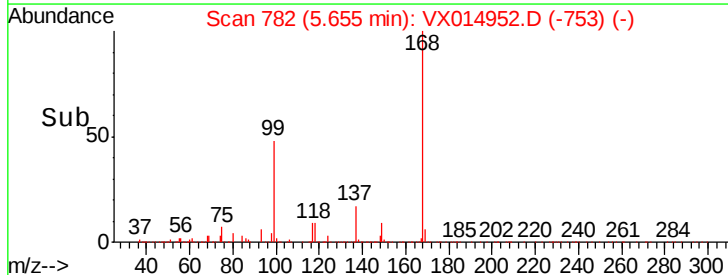
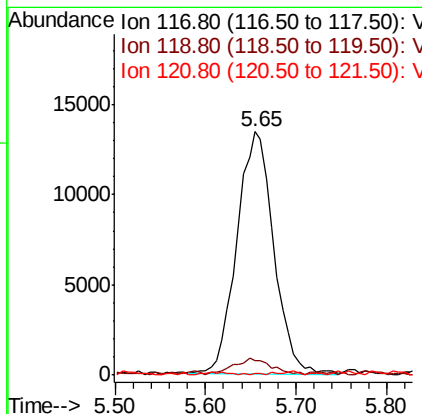
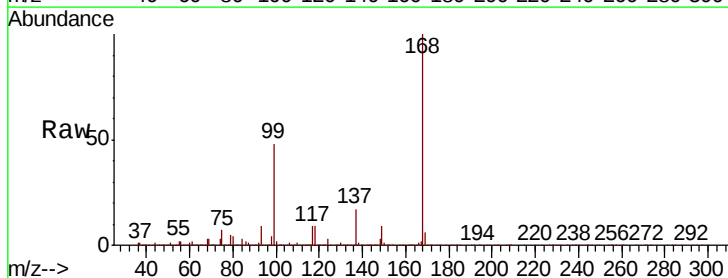
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-200217

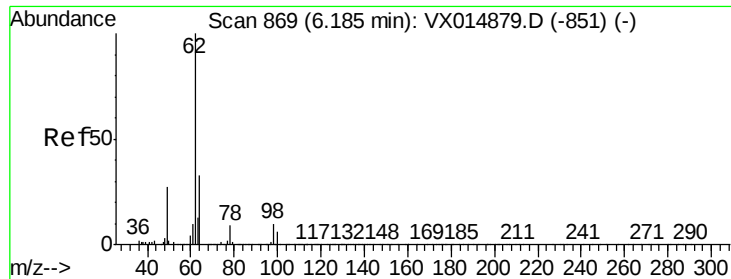
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	18.3	54.8#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.419 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014952.D
 Acq: 18 Feb 2020 12:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	76.0	114.0#
121	0.8	25.4	38.2#





#42

1,2-Dichloroethane

Concen: 0.265 ug/l

RT: 6.21 min Scan# 873

Delta R.T. 0.02 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

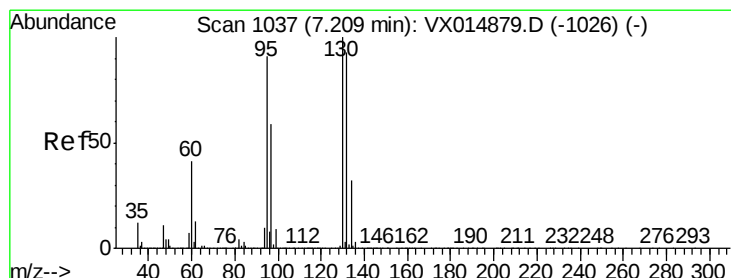
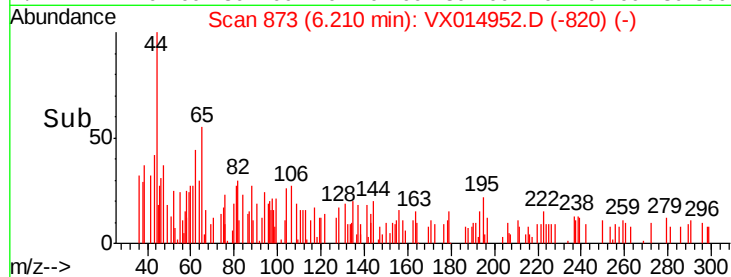
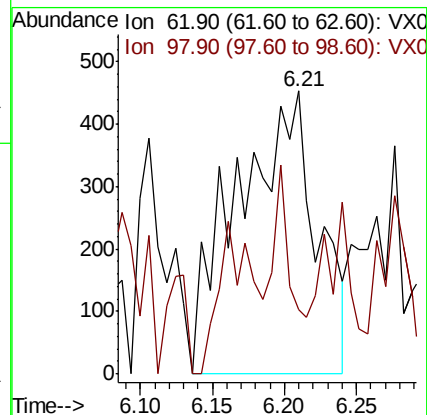
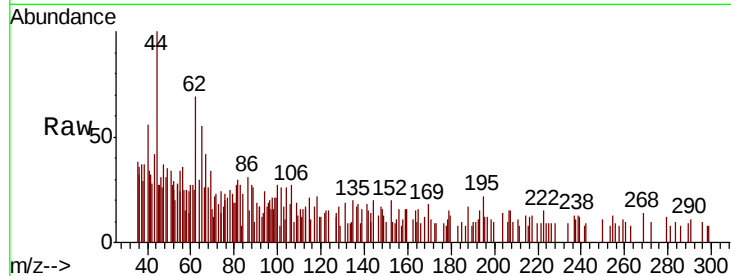
KY038PS027-200217

Tot Ion: 62 Resp: 1736

Ion Ratio Lower Upper

62 100

98 11.4 0.0 19.2



#44

Trichloroethene

Concen: 3.817 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014952.D

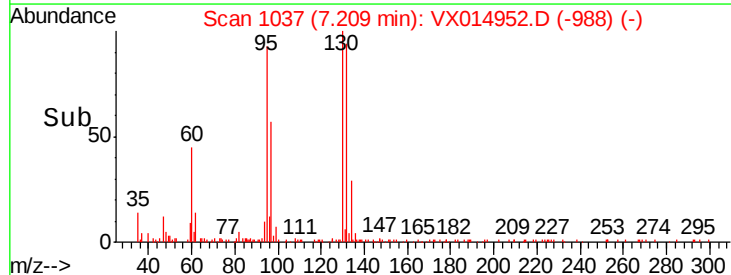
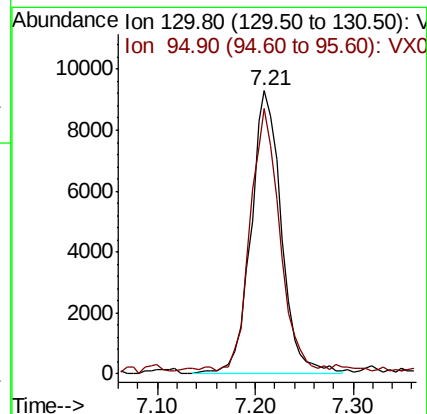
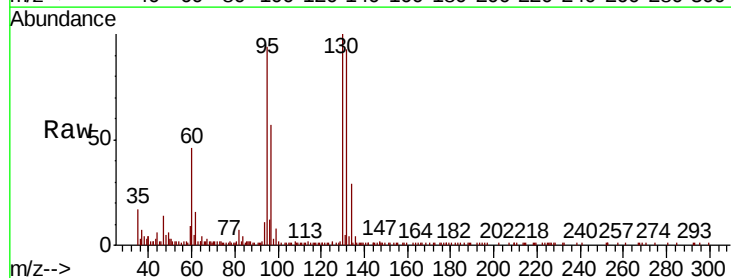
Acq: 18 Feb 2020 12:23

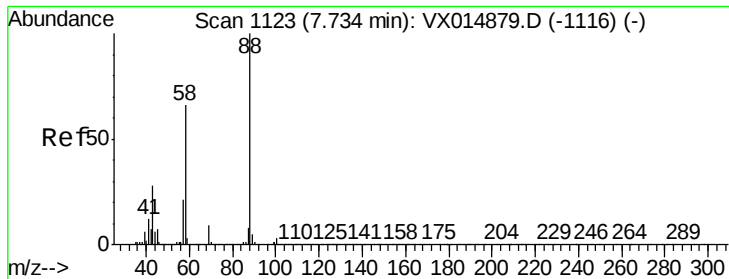
Tgt Ion: 130 Resp: 20097

Ion Ratio Lower Upper

130 100

95 91.9 0.0 182.6

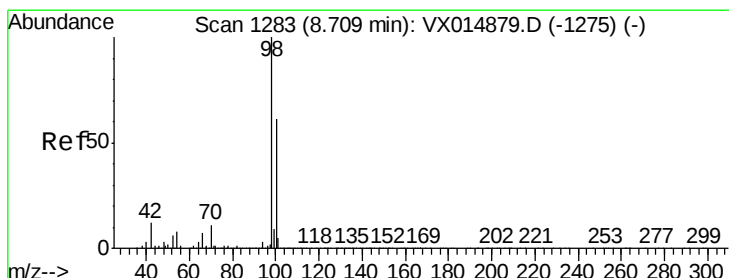
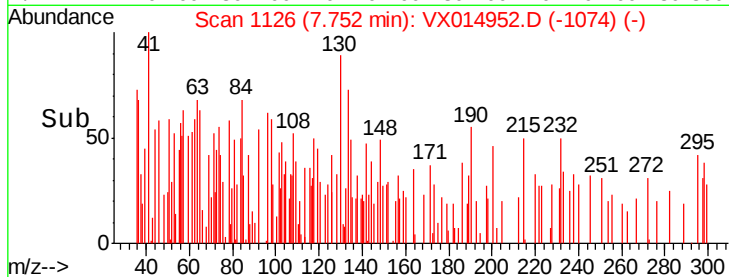
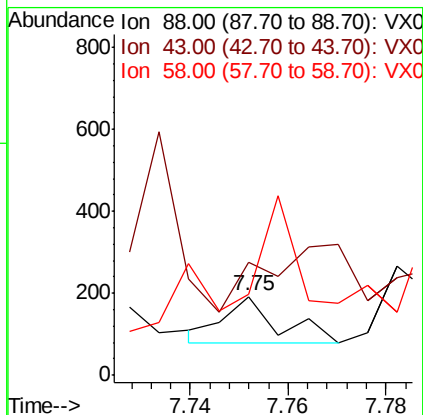
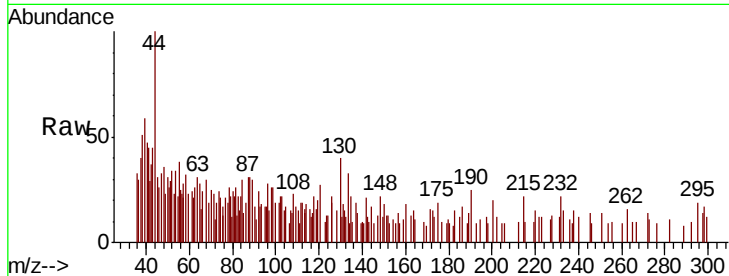




#49
1,4-Dioxane
Concen: 0.895 ug/l
RT: 7.75 min Scan# 1126
Delta R.T. 0.02 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

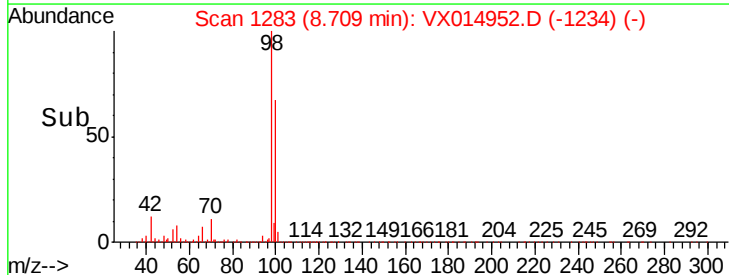
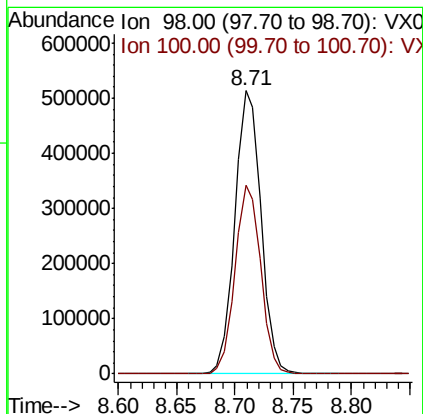
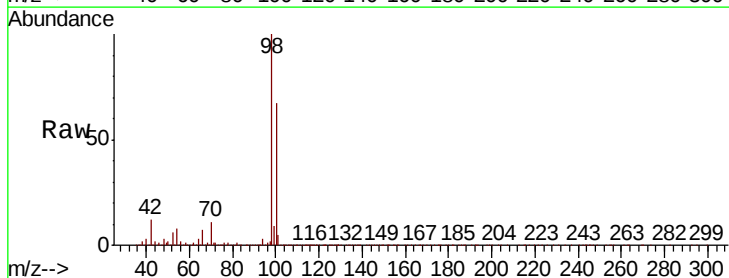
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-200217

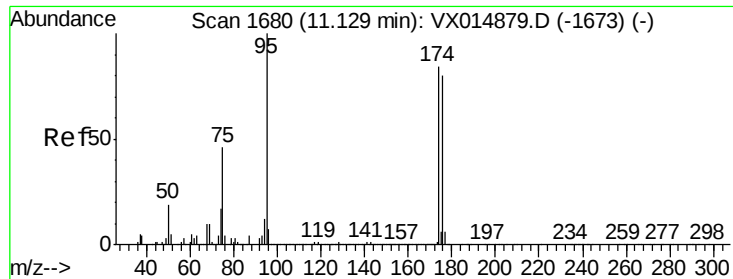
Tot Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 274.4 53.2 79.8#



#50
Toluene-d8
Concen: 50.610 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

Tgt Ion: 98 Resp: 805841
Ion Ratio Lower Upper
98 100
100 65.7 52.4 78.6

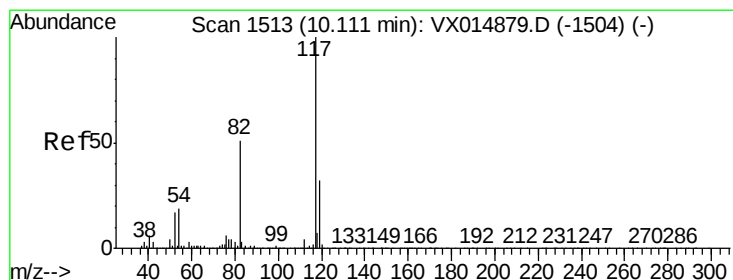
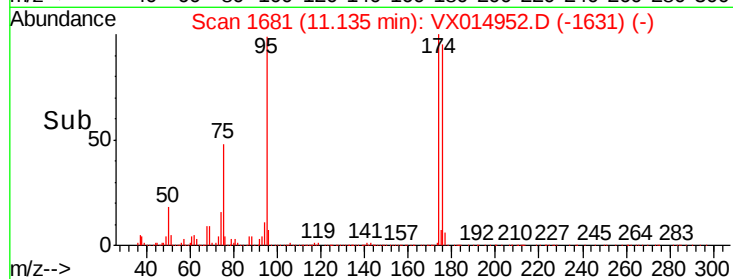
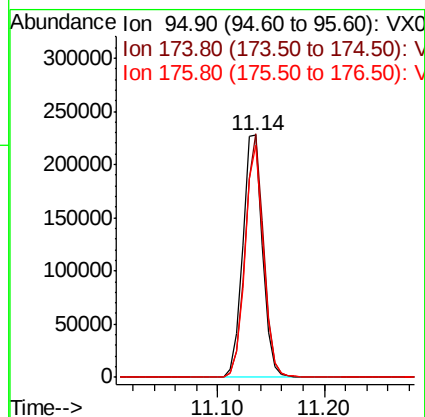
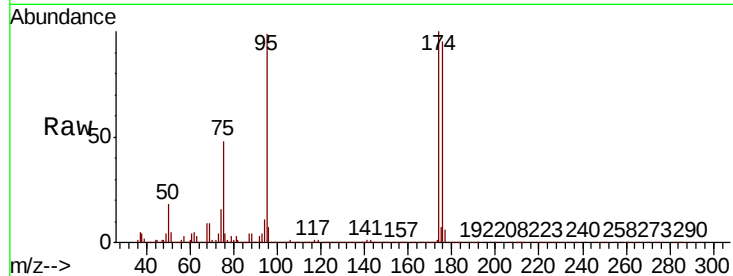




#62
4-Bromofluorobenzene
Concen: 51.840 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

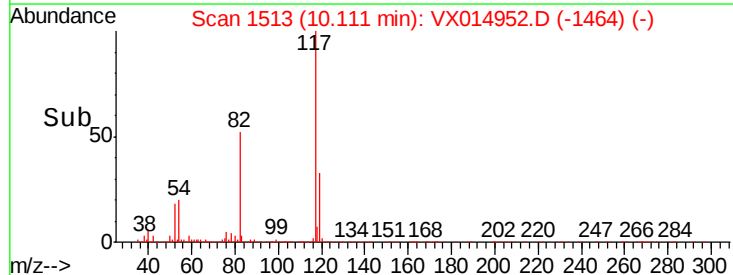
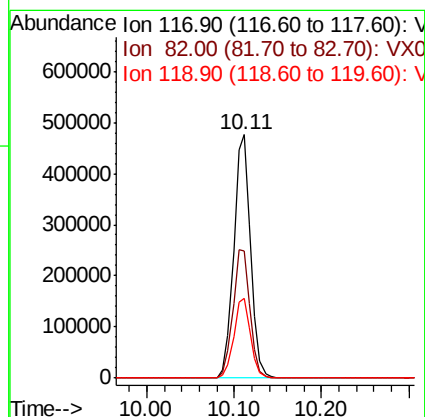
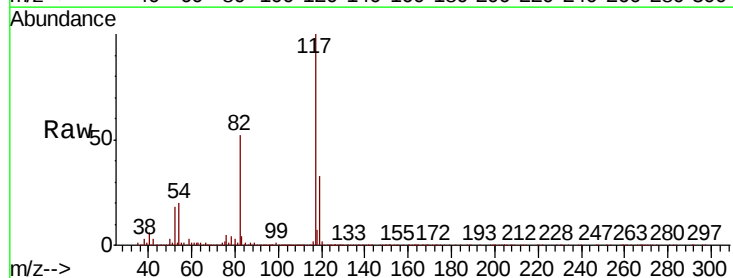
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-200217

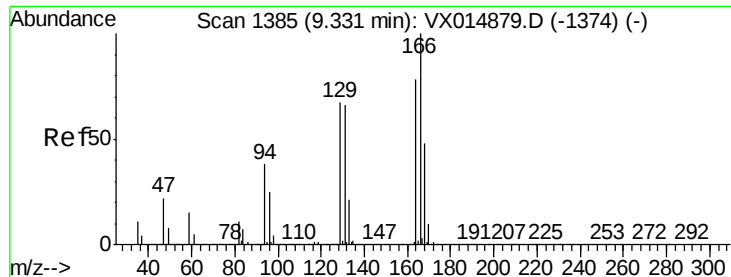
Tot Ion: 95 Resp: 297343
Ion Ratio Lower Upper
95 100
174 93.6 0.0 183.0
176 89.8 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014952.D
Acq: 18 Feb 2020 12:23

Tgt Ion: 117 Resp: 641303
Ion Ratio Lower Upper
117 100
82 52.3 40.5 60.7
119 32.7 25.8 38.6





#64

Tetrachloroethene

Concen: 2.296 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-200217

Tot Ion:164 Resp: 13768

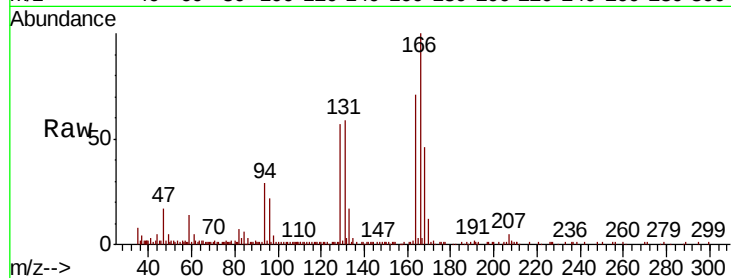
Ion Ratio Lower Upper

164 100

166 140.8 102.6 153.8

129 81.2 68.3 102.5

131 82.7 67.4 101.2

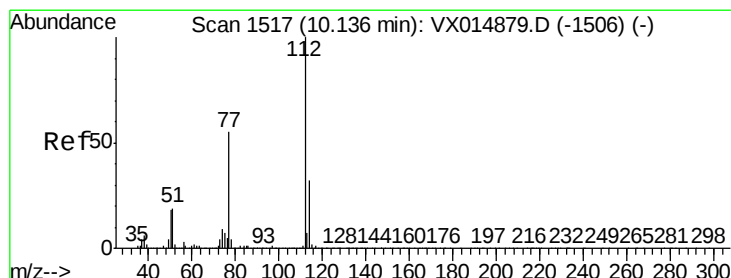
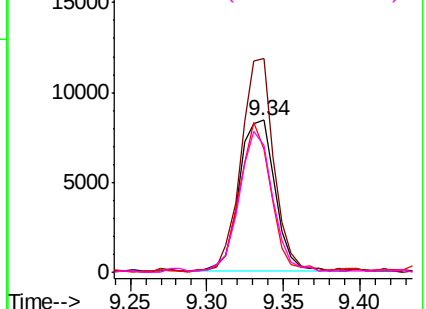
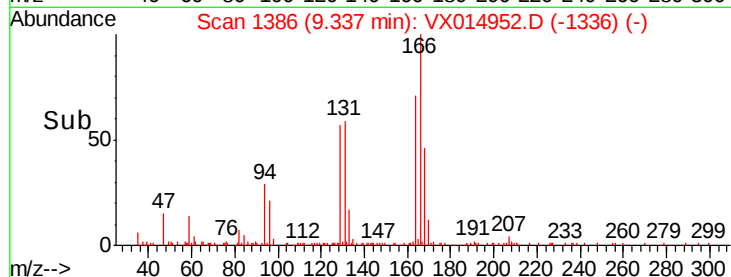


Abundance Ion 163.80 (163.50 to 164.50): V

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



#65

Chlorobenzene

Concen: 1.492 ug/l

RT: 10.13 min Scan# 1516

Delta R.T. -0.01 min

Lab File: VX014952.D

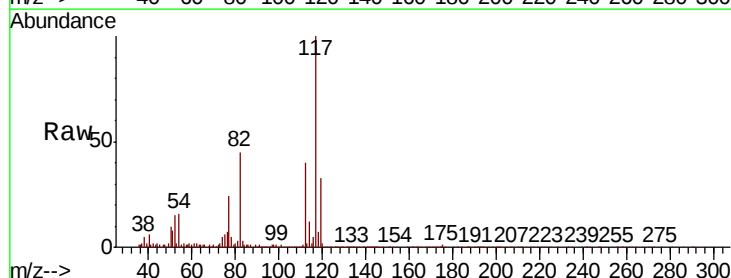
Acq: 18 Feb 2020 12:23

Tgt Ion:112 Resp: 19411

Ion Ratio Lower Upper

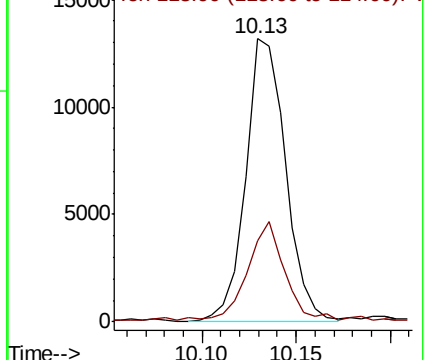
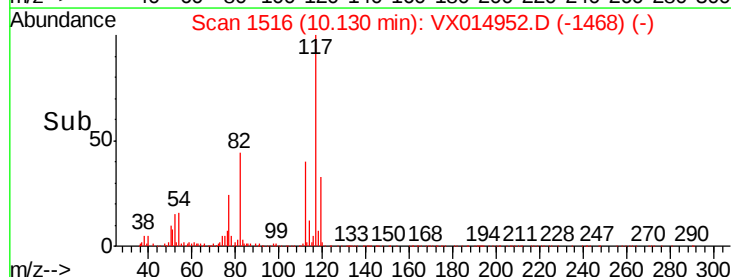
112 100

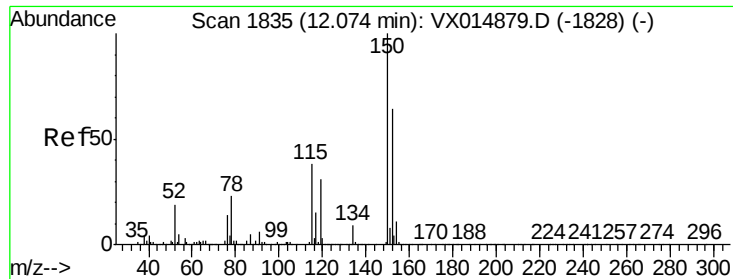
114 27.9 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-200217

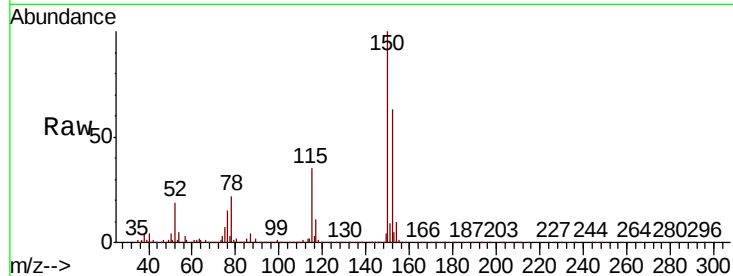
Tot Ion:152 Resp: 332929

Ion Ratio Lower Upper

152 100

115 55.1 38.6 116.0

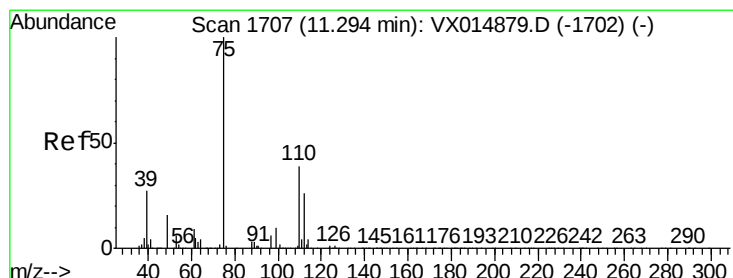
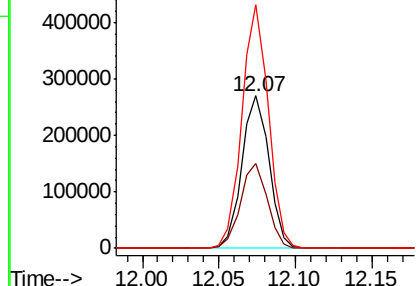
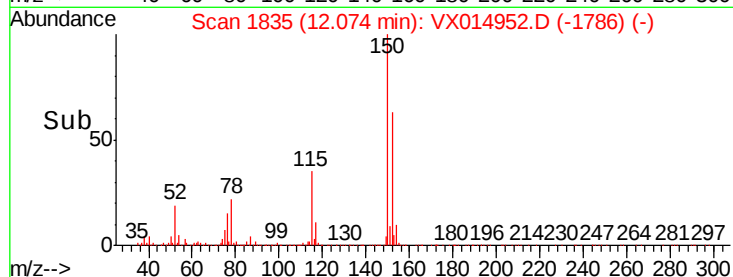
150 155.3 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.499 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014952.D

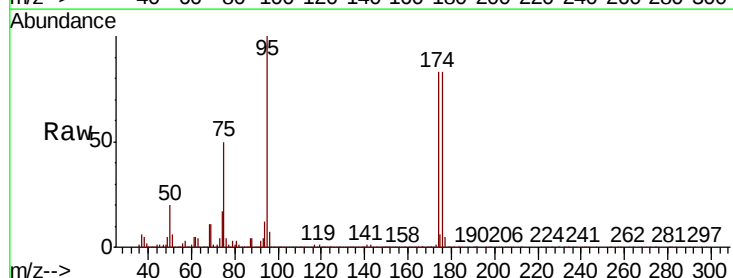
Acq: 18 Feb 2020 12:23

Tgt Ion: 75 Resp: 147494

Ion Ratio Lower Upper

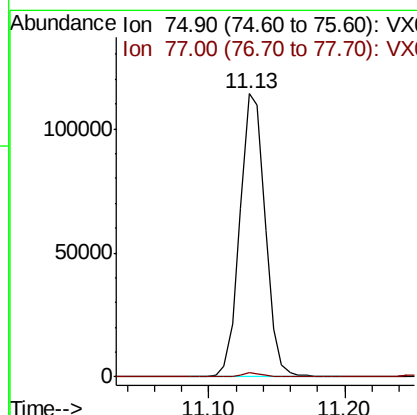
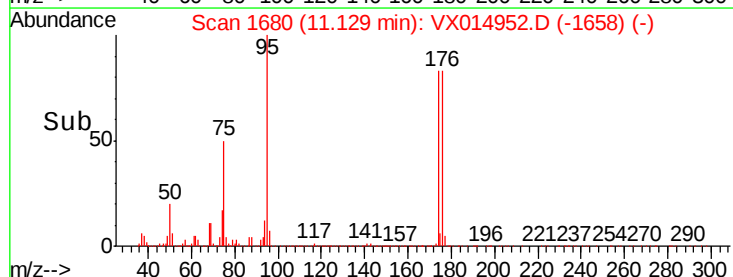
75 100

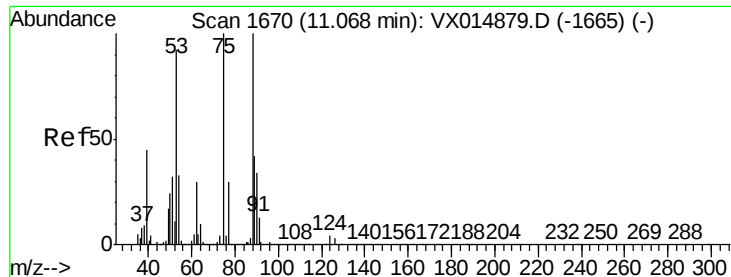
77 1.1 18.4 55.0#



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: 62.710 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-200217

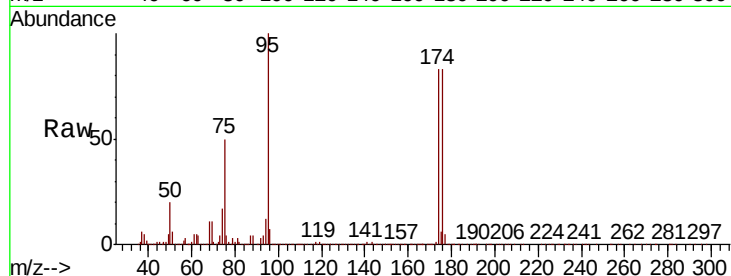
Tot Ion: 75 Resp: 147494

Ion Ratio Lower Upper

75 100

53 0.2 76.2 114.2#

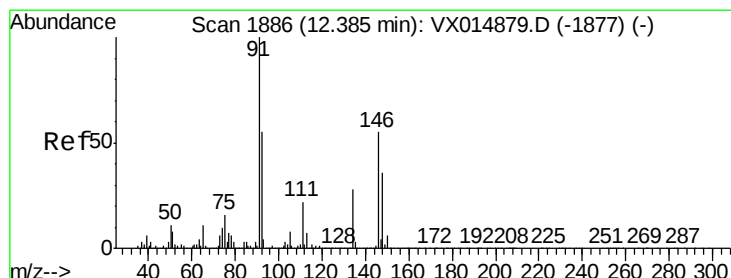
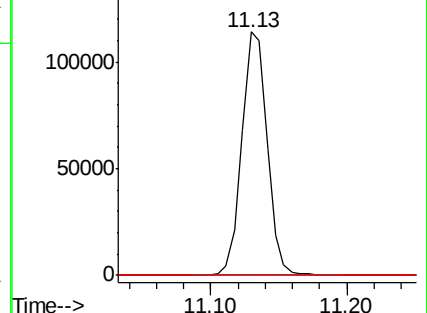
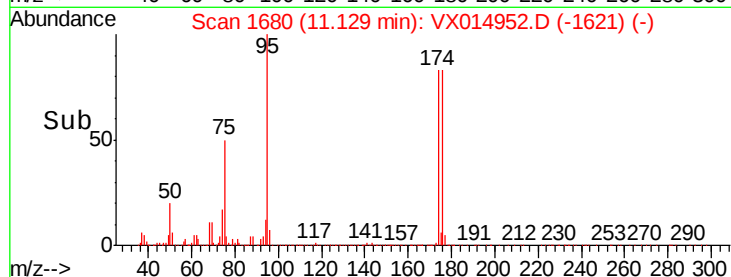
89 0.2 35.8 53.6#



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



#91

1,2-Dichlorobenzene

Concen: 0.204 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

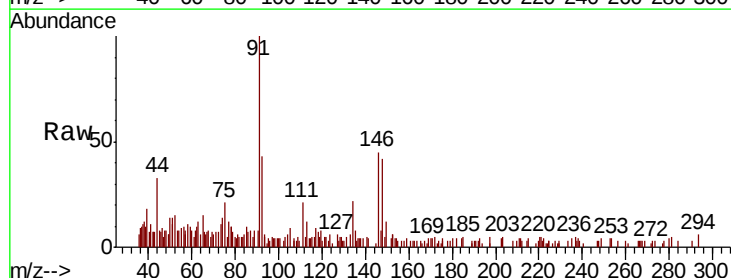
Tgt Ion:146 Resp: 2088

Ion Ratio Lower Upper

146 100

111 37.5 19.8 59.3

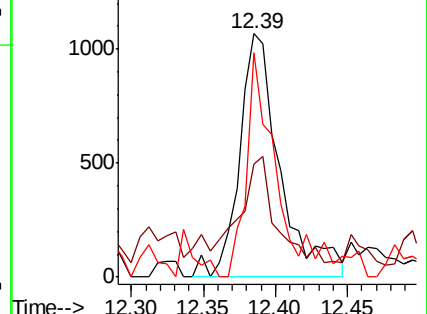
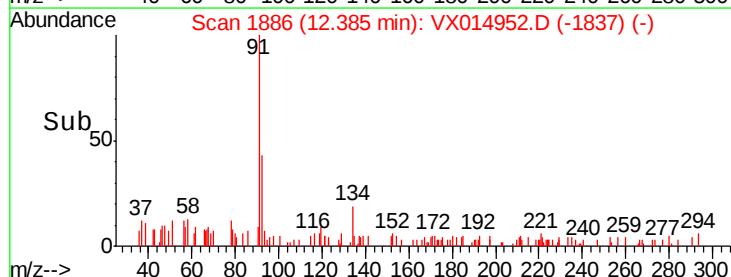
148 59.3 32.4 97.2

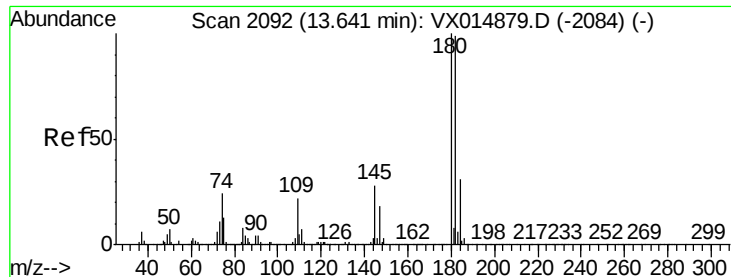


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

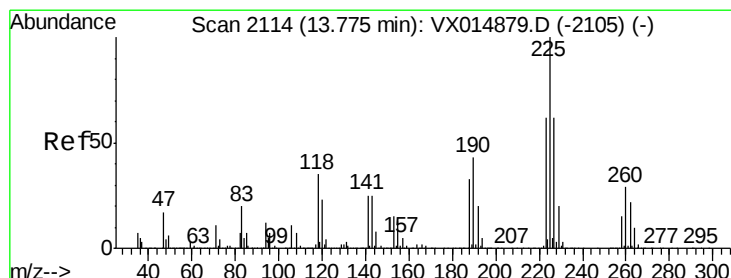
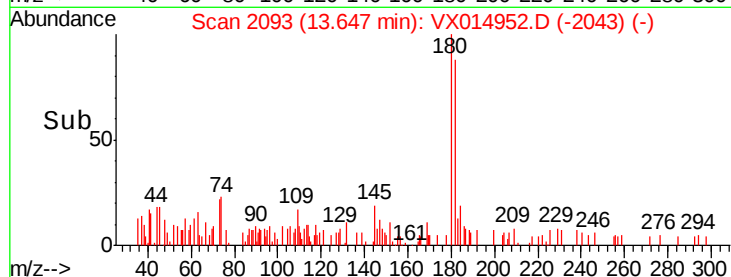
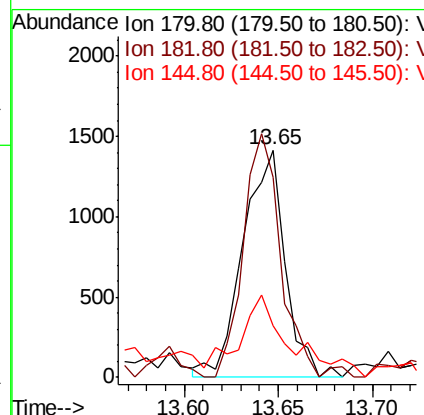
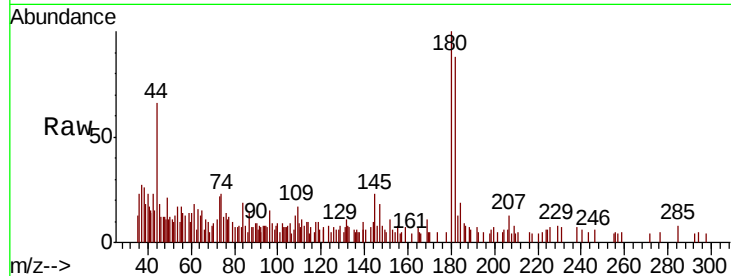




#93
 1,2,4-Trichlorobenzene
 Concen: 0.291 ug/l
 RT: 13.65 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: VX014952.D
 Acq: 18 Feb 2020 12:23

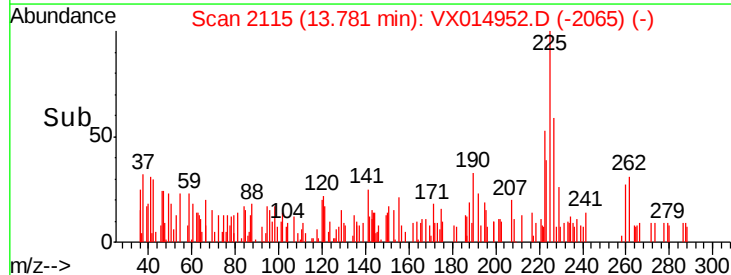
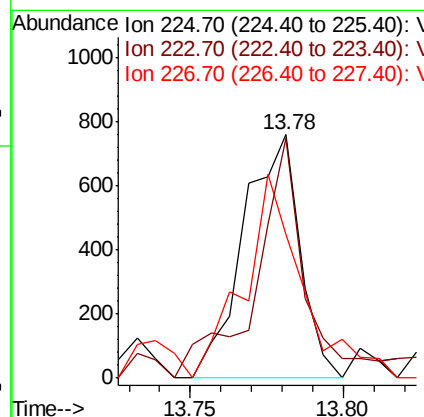
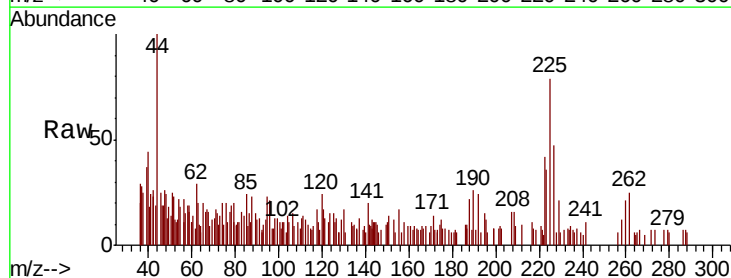
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-200217

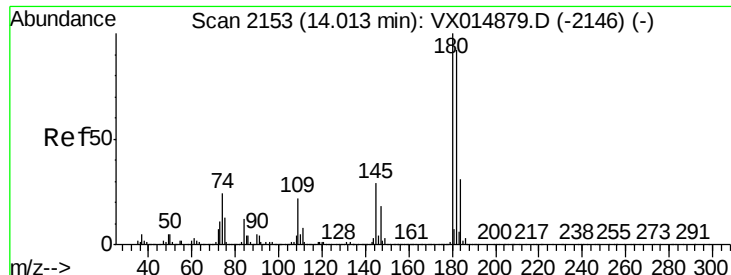
Tot Ion:180 Resp: 2199
 Ion Ratio Lower Upper
 180 100
 182 96.2 48.4 145.3
 145 44.4 14.1 42.4#



#94
 Hexachlorobutadiene
 Concen: 0.265 ug/l
 RT: 13.78 min Scan# 2115
 Delta R.T. 0.01 min
 Lab File: VX014952.D
 Acq: 18 Feb 2020 12:23

Tgt Ion:225 Resp: 971
 Ion Ratio Lower Upper
 225 100
 223 92.1 31.1 93.2
 227 86.9 30.9 92.5





#96

1,2,3-Trichlorobenzene

Concen: 0.257 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VX014952.D

Acq: 18 Feb 2020 12:23

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-200217

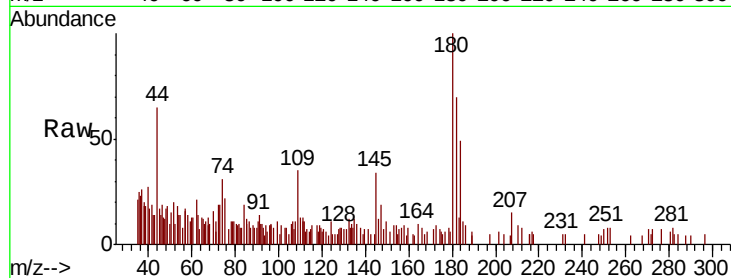
Tot Ion:180 Resp: 1877

Ion Ratio Lower Upper

180 100

182 86.9 47.5 142.6

145 35.7 14.5 43.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

