

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY051820\
 Data File : VY002703.D
 Acq On : 18 May 2020 12:05
 Operator : SY/MD
 Sample : L2663-03RE
 Misc : 6.24G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: May 18 23:52:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y051520S.M
 Quant Title : SW846 8260
 QLast Update : Sat May 16 04:52:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	266176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	409183	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	321834	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	109734	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	118046	56.70	ug/l	0.00
Spiked Amount			Recovery	=	113.40%	
35) Dibromofluoromethane	7.72	113	119919	53.10	ug/l	0.00
Spiked Amount			Recovery	=	106.20%	
50) Toluene-d8	10.18	98	461683	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	12.48	95	116395	37.25	ug/l	0.00
Spiked Amount			Recovery	=	74.50%	

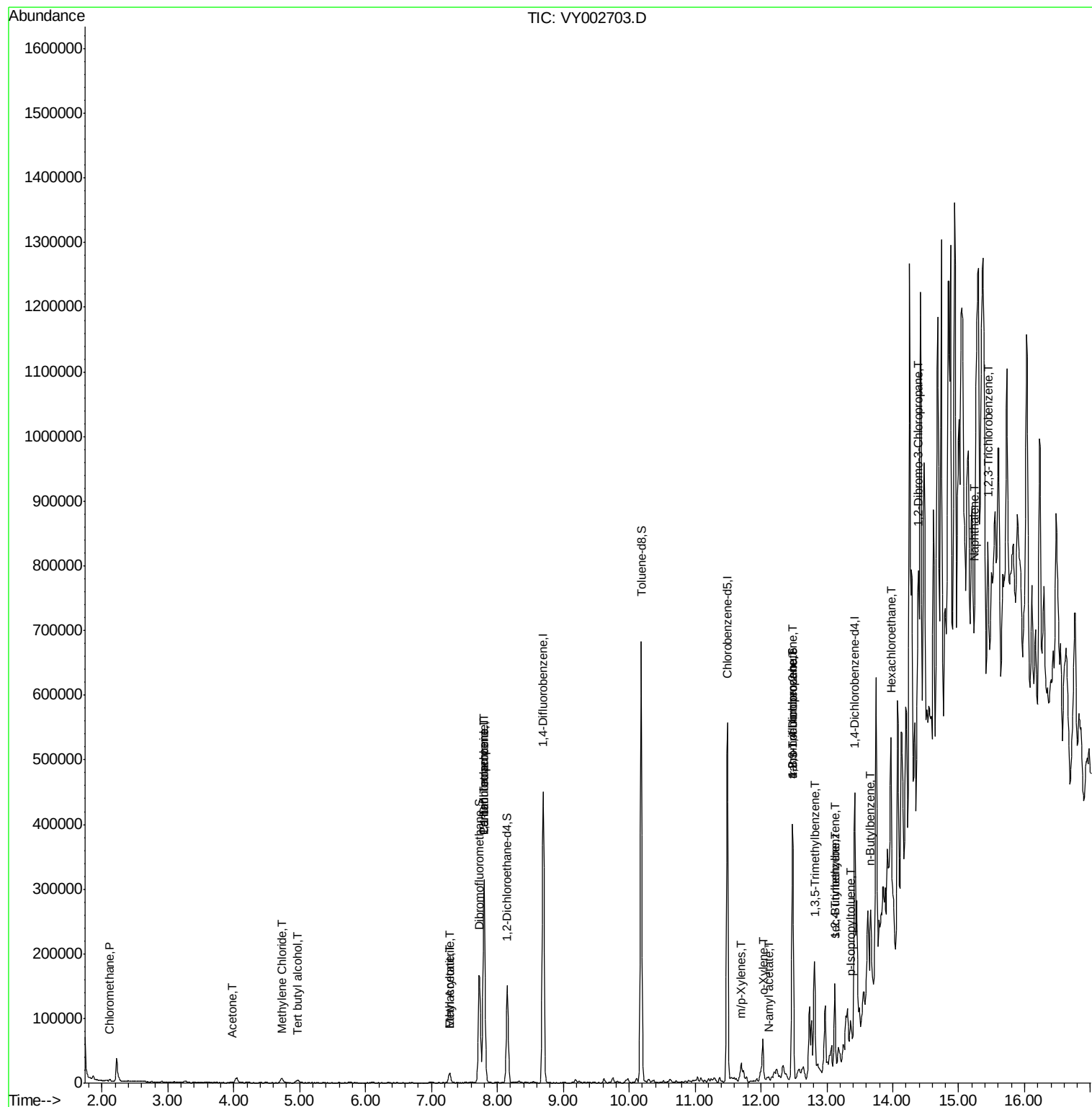
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.12	50	2963	1.356	ug/l	98
11) Tert butyl alcohol	4.96	59	8471	40.062	ug/l #	94
16) Acetone	3.97	43	971	2.262	ug/l	95
20) Methylene Chloride	4.72	84	5837	2.250	ug/l	93
36) 1,1-Dichloropropene	7.80	75	16058	4.636	ug/l #	48
37) Ethyl Acetate	7.28	43	13778	8.087	ug/l #	67
38) Carbon Tetrachloride	7.80	117	23159	6.221	ug/l #	16
41) Methacrylonitrile	7.28	41	7366	7.196	ug/l #	100
68) m/p-Xylenes	11.70	106	8795	2.070	ug/l	98
69) o-Xylene	12.03	106	16031	4.021	ug/l	100
74) N-amyl acetate	12.11	43	2057	1.223	ug/l #	41
76) 1,2,3-Trichloropropane	12.48	75	55281	61.326	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.81	105	78730	13.068	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.48	75	55281	115.980	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.12	105	68215	11.329	ug/l	99
85) sec-Butylbenzene	13.12	105	68215	9.271	ug/l #	54
86) p-Isopropyltoluene	13.37	119	20923	3.038	ug/l	97
89) n-Butylbenzene	13.66	91	15668	2.477	ug/l #	1
90) Hexachloroethane	13.97	117	9920	7.777	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.38	75	522	2.578	ug/l #	44
93) 1,2,4-Trichlorobenzene	15.00	180	3951	Below Cal	#	1
94) Hexachlorobutadiene	15.11	225	642	Below Cal		90
95) Naphthalene	15.23	128	17332	4.060	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.45	180	20349	7.841	ug/l #	12

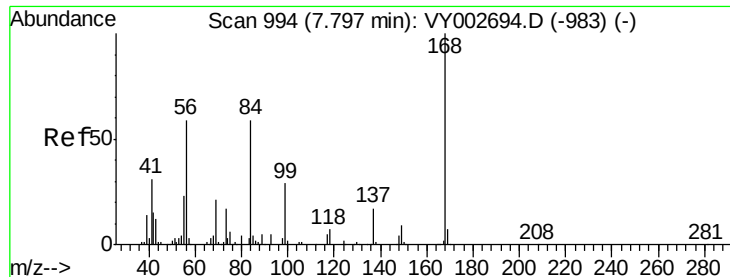
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y051520S.M
Quant Title : SW846 8260
QLast Update : Sat May 16 04:52:36 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

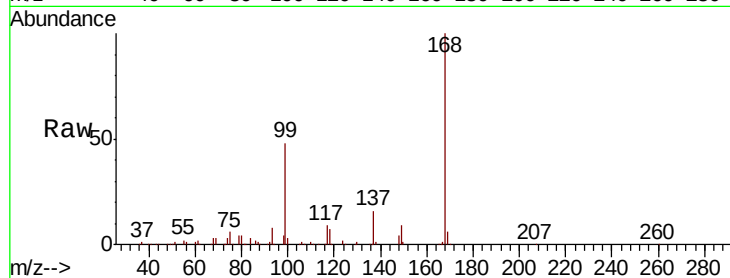
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 266176

Ion Ratio Lower Upper

168 100

99 47.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002703.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY002703.D (-945) (-)

7.80

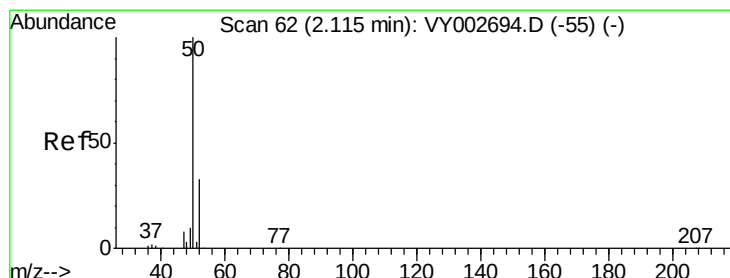
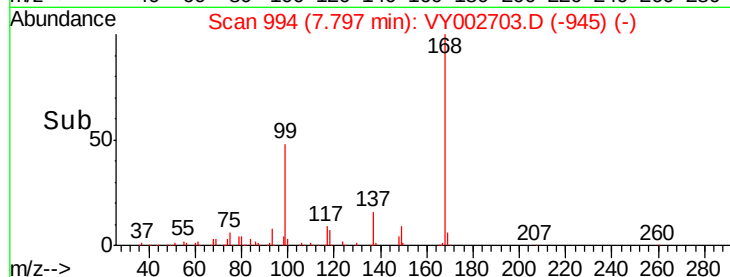
100000

50000

0

Time-->

7.70 7.80 7.90



#3

Chloromethane

Concen: 1.356 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY002703.D

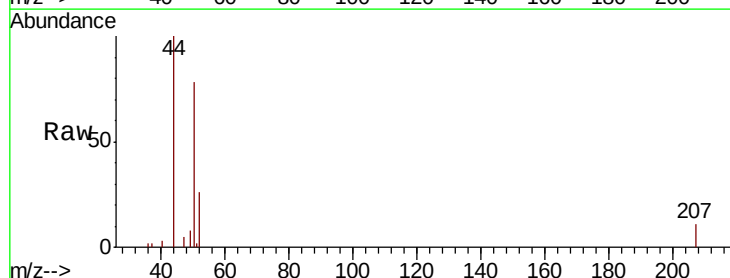
Acq: 18 May 2020 12:05

Tgt Ion: 50 Resp: 2963

Ion Ratio Lower Upper

50 100

52 33.8 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VY002703.D (-13) (-)

Ion 51.90 (51.60 to 52.60): VY002703.D (-13) (-)

2.12

2000

1500

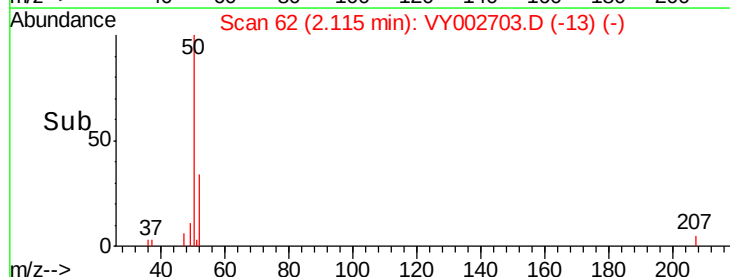
1000

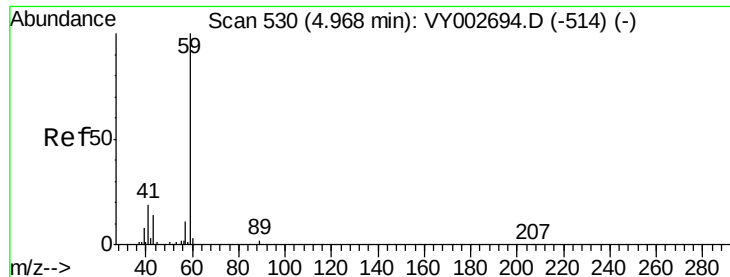
500

0

Time-->

2.05 2.10 2.15

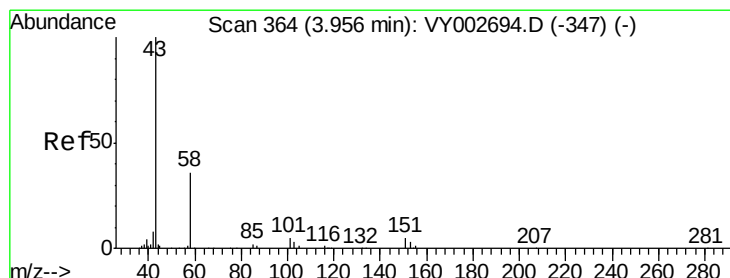
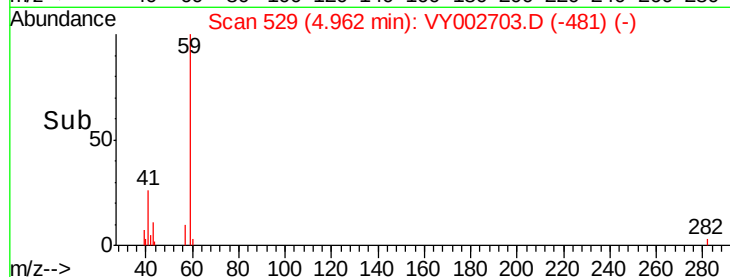
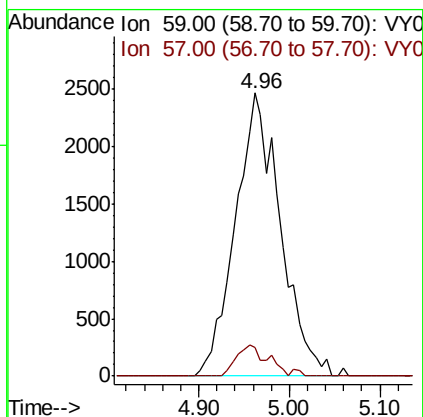
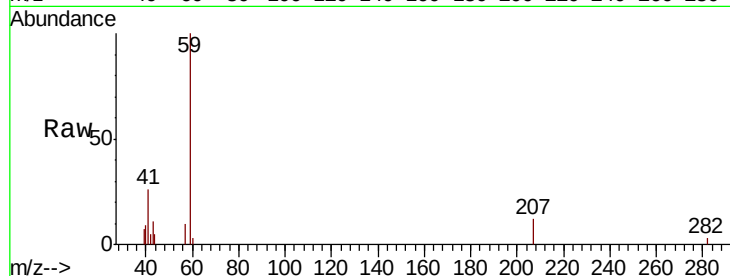




#11
Tert butyl alcohol
Concen: 40.062 ug/l
RT: 4.96 min Scan# 529
Delta R.T. -0.01 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

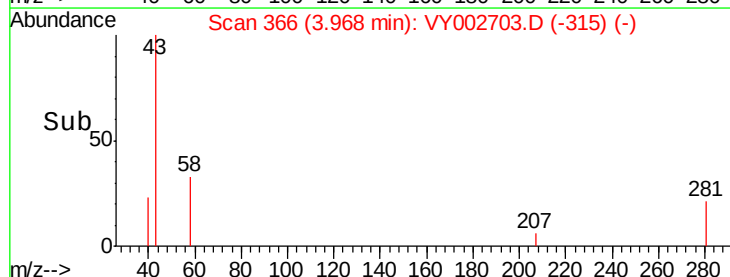
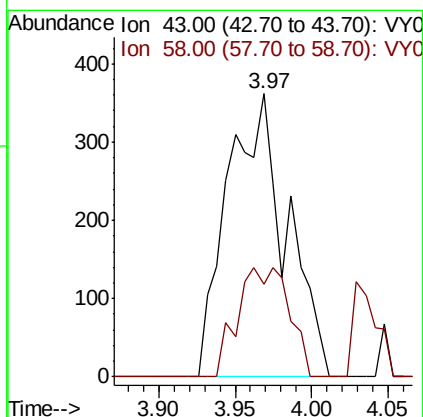
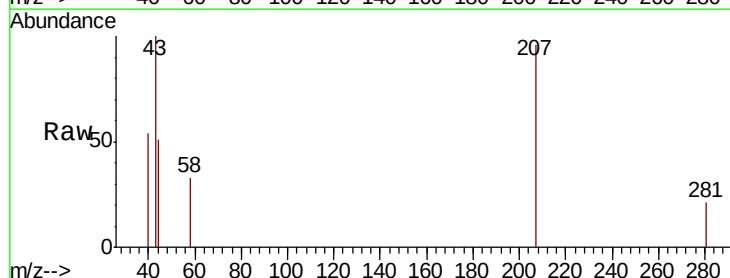
Instrument :
MSVOA_Y
ClientSampled :

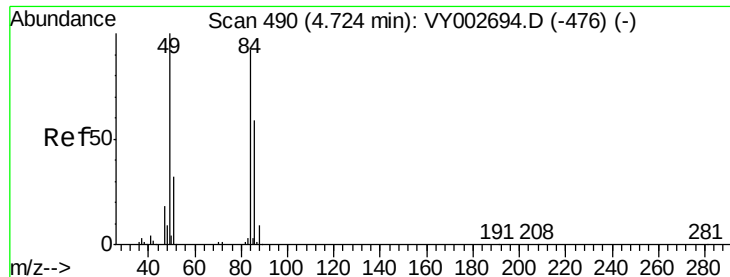
Tot Ion: 59 Resp: 8471
Ion Ratio Lower Upper
59 100
57 7.5 7.7 11.5#



#16
Acetone
Concen: 2.262 ug/l
RT: 3.97 min Scan# 366
Delta R.T. 0.01 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Tgt Ion: 43 Resp: 971
Ion Ratio Lower Upper
43 100
58 32.6 28.6 43.0

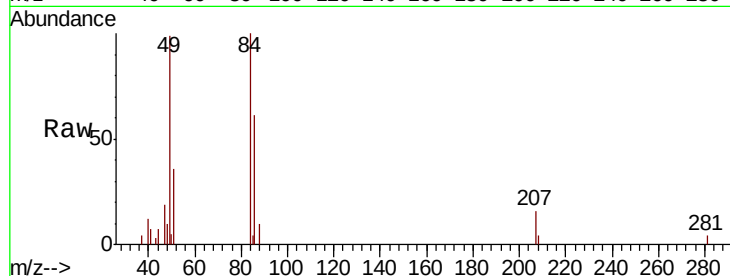




#20
Methylene Chloride
Concen: 2.250 ug/l
RT: 4.72 min Scan# 490
Delta R.T. -0.00 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:	84	Resp:	5837
Ion	Ratio	Lower	Upper
84	100		
49	99.1	87.4	131.0
51	36.5	27.9	41.9
86	61.2	51.7	77.5



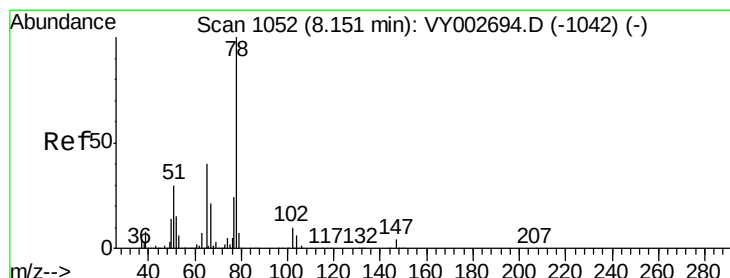
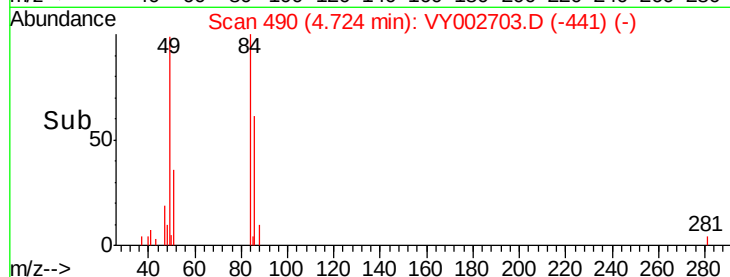
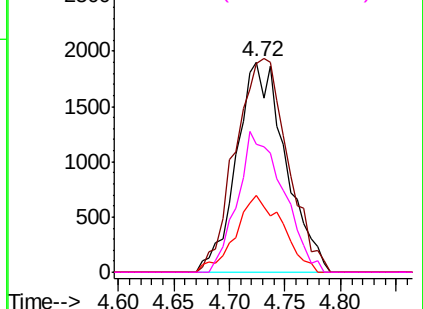
Abundance

Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

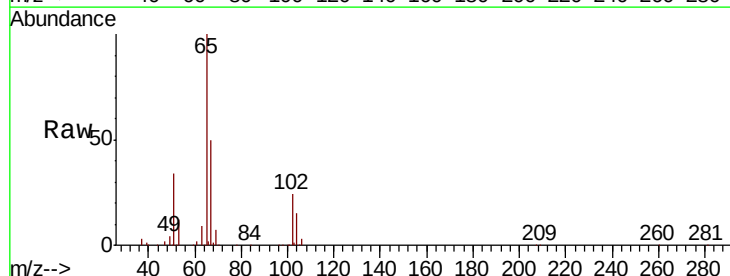
Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0



#33
1,2-Dichloroethane-d4
Concen: 56.697 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

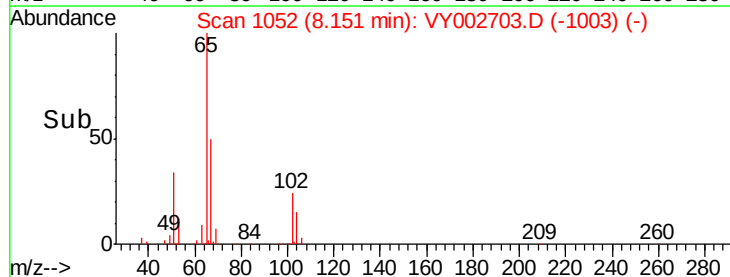
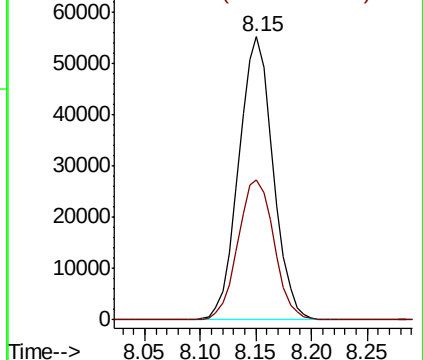
Tgt Ion:	65	Resp:	118046
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	109.0

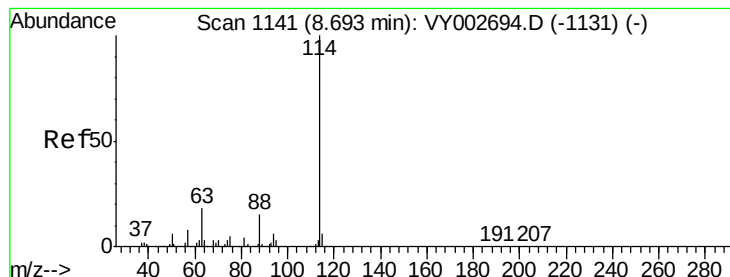


Abundance

Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

Instrument :

MSVOA_Y

ClientSampled :

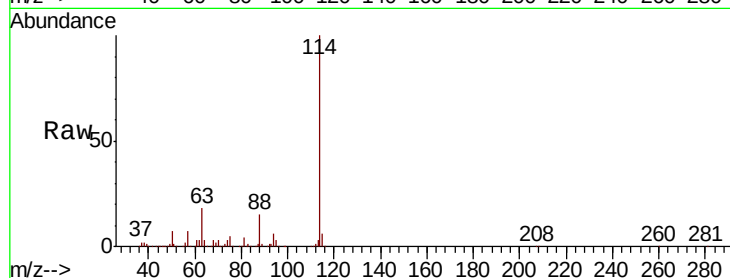
Tot Ion:114 Resp: 409183

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.4

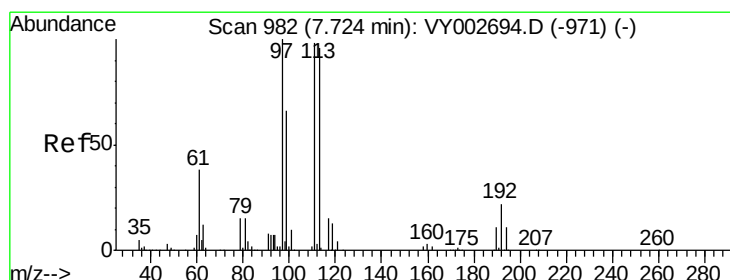
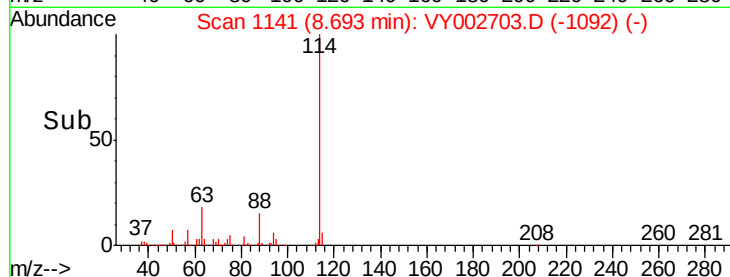
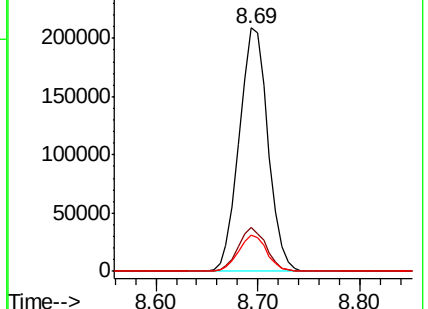
88 15.0 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 53.104 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.00 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

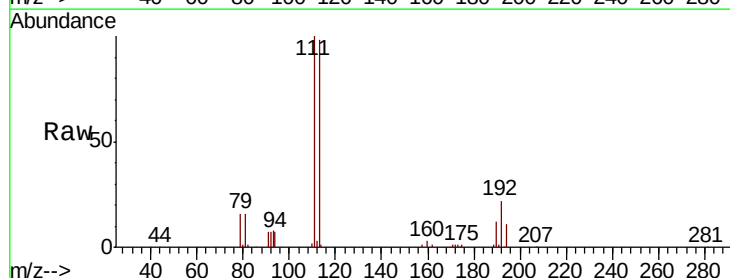
Tgt Ion:113 Resp: 119919

Ion Ratio Lower Upper

113 100

111 103.5 81.9 122.9

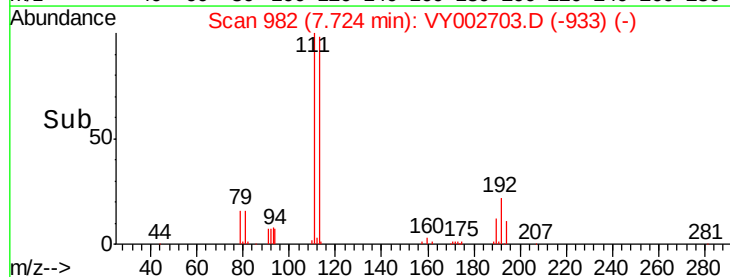
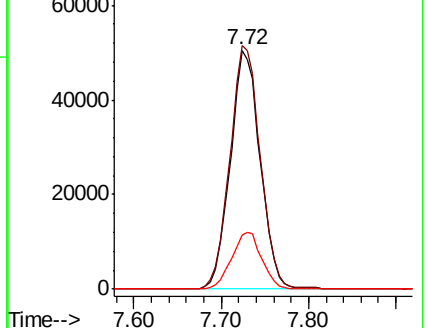
192 23.9 18.6 27.8

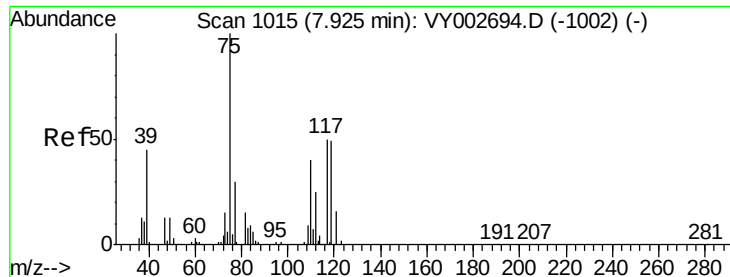


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

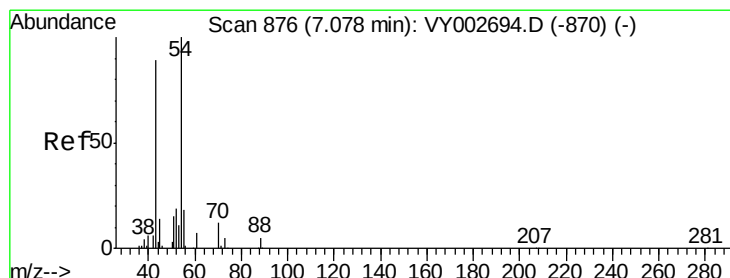
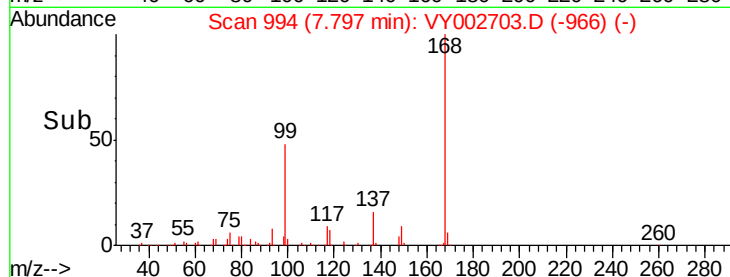
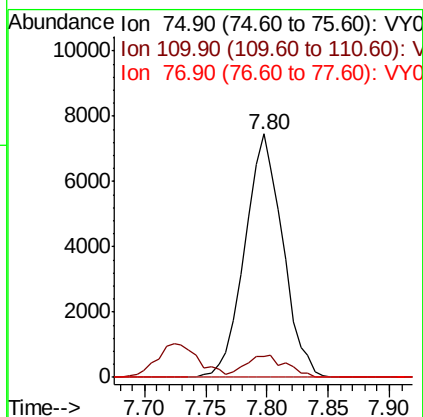
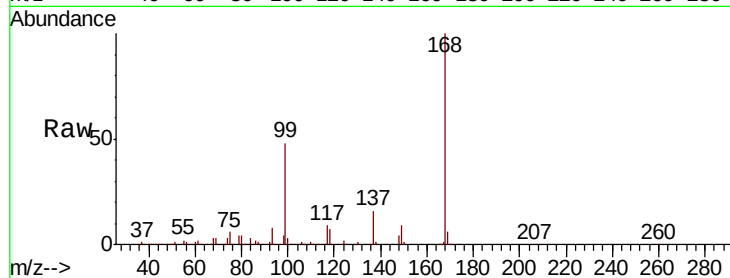




#36
 1,1-Dichloropropene
 Concen: 4.636 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY002703.D
 Acq: 18 May 2020 12:05

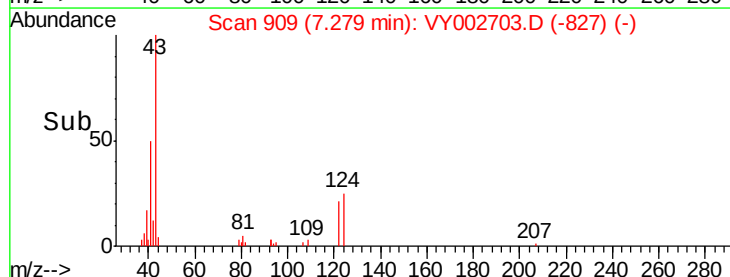
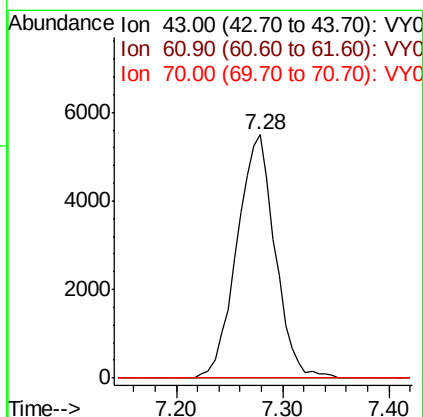
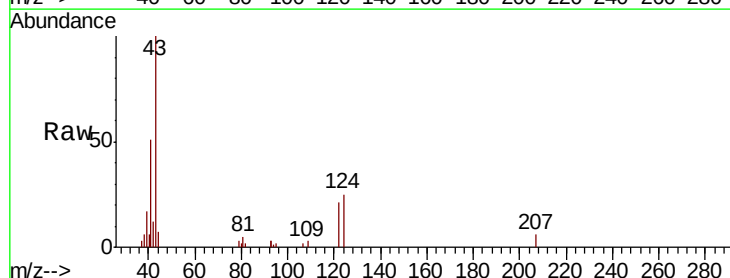
Instrument :
 MSVOA_Y
 ClientSampleId :

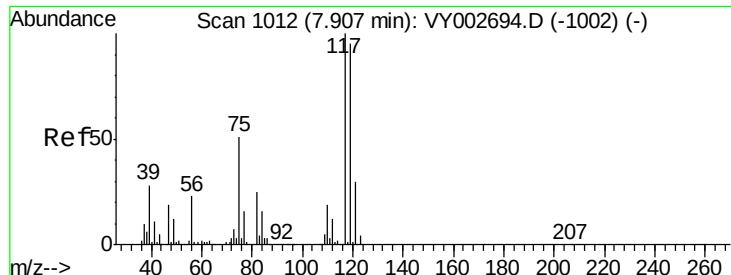
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.4	58.4#
77	0.0	25.0	37.4#



#37
 Ethyl Acetate
 Concen: 8.087 ug/l
 RT: 7.28 min Scan# 909
 Delta R.T. 0.20 min
 Lab File: VY002703.D
 Acq: 18 May 2020 12:05

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.8#
70	0.0	9.2	13.8#

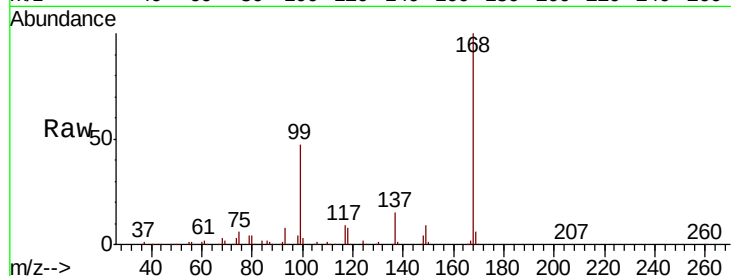




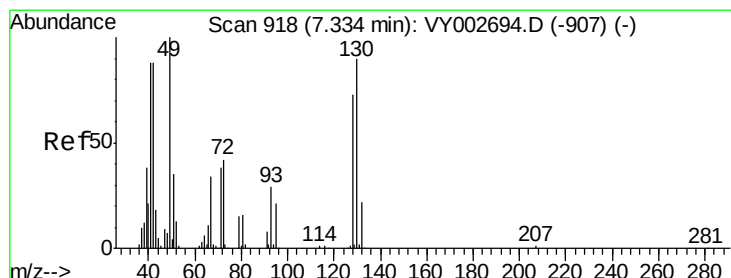
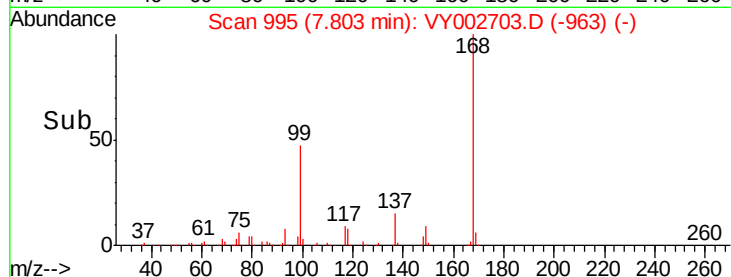
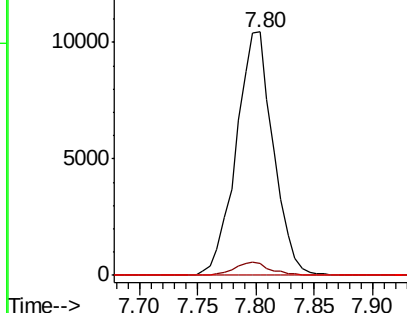
#38
Carbon Tetrachloride
Concen: 6.221 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.10 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:117 Resp: 23159
Ion Ratio Lower Upper
117 100
119 4.8 76.3 114.5#
121 0.0 24.2 36.2#

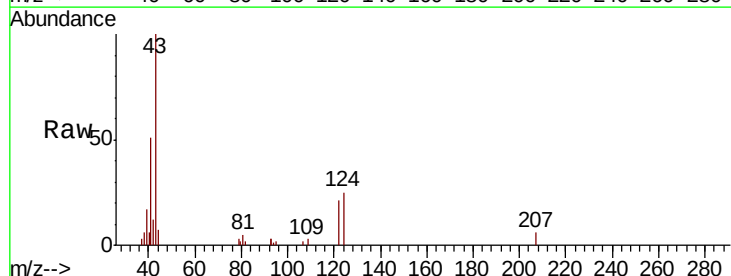


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

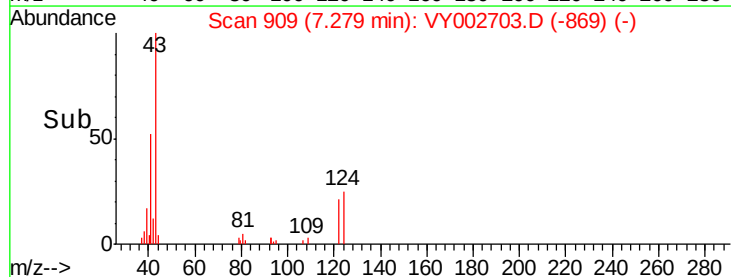
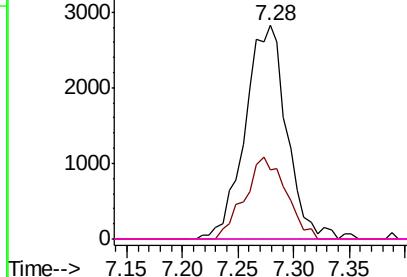


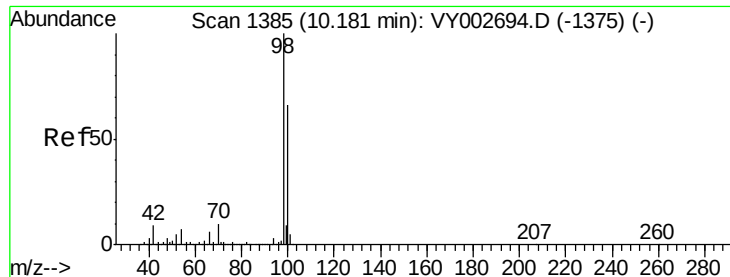
#41
Methacrylonitrile
Concen: 7.196 ug/l
RT: 7.28 min Scan# 909
Delta R.T. -0.05 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Tgt Ion: 41 Resp: 7366
Ion Ratio Lower Upper
41 100
39 37.4 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0





#50

Toluene-d8

Concen: 50.781 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

Instrument :

MSVOA_Y

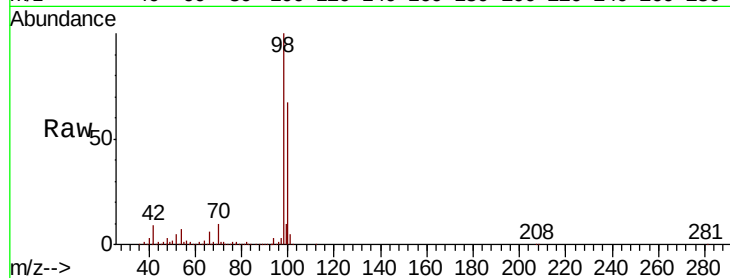
ClientSampleId :

Tot Ion: 98 Resp: 461683

Ion Ratio Lower Upper

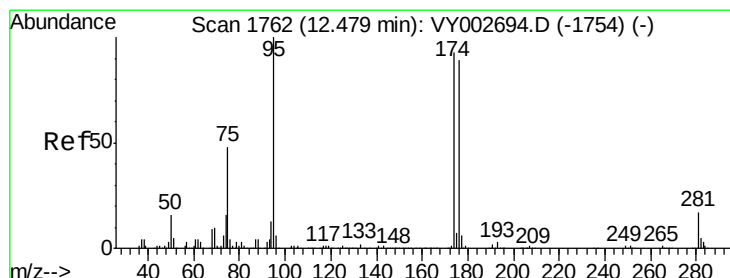
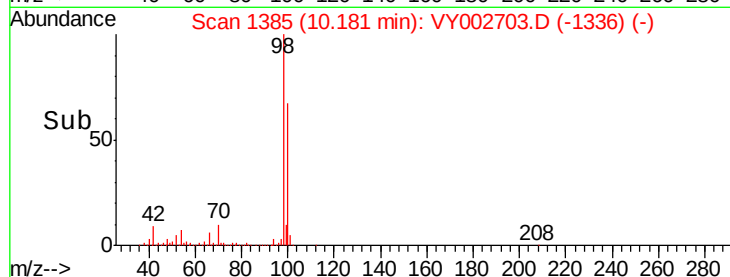
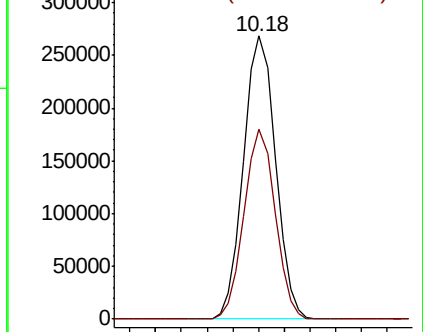
98 100

100 65.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#62

4-Bromofluorobenzene

Concen: 37.248 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

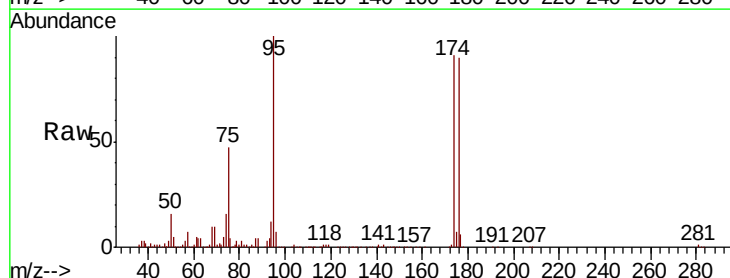
Tgt Ion: 95 Resp: 116395

Ion Ratio Lower Upper

95 100

174 95.2 0.0 191.4

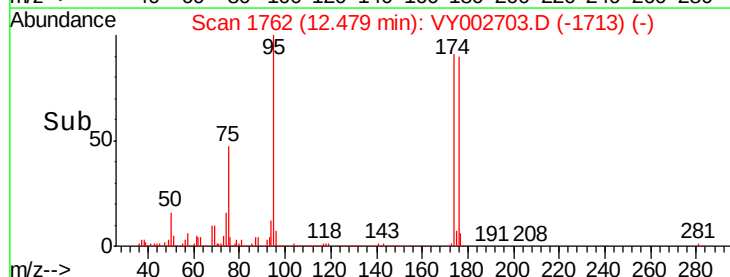
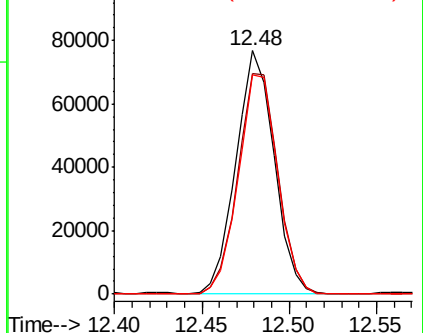
176 92.9 0.0 186.0

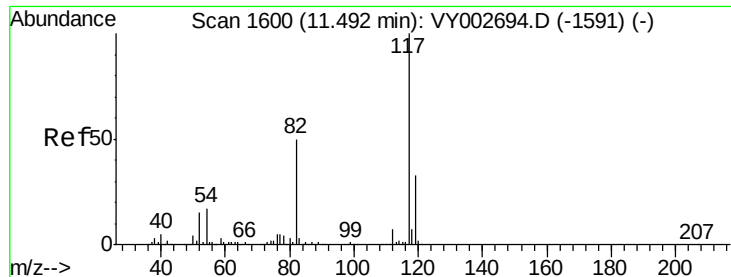


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

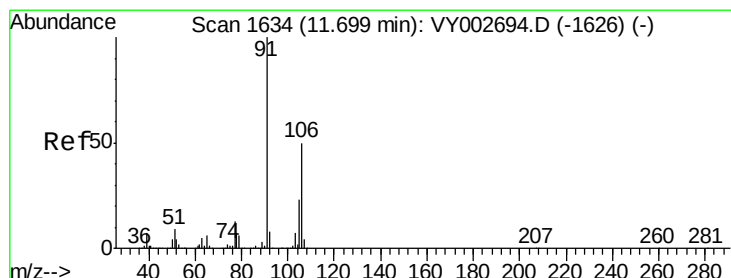
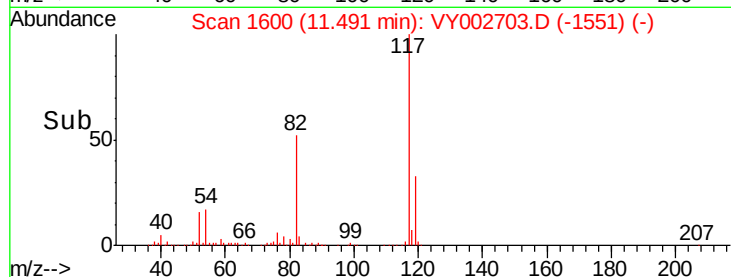
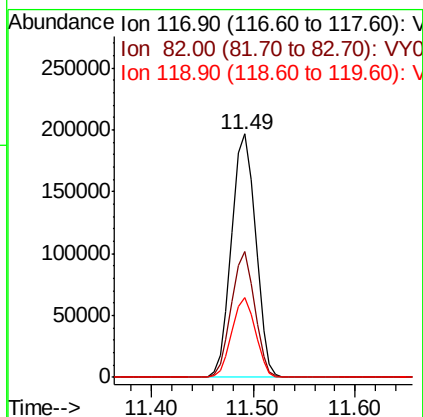
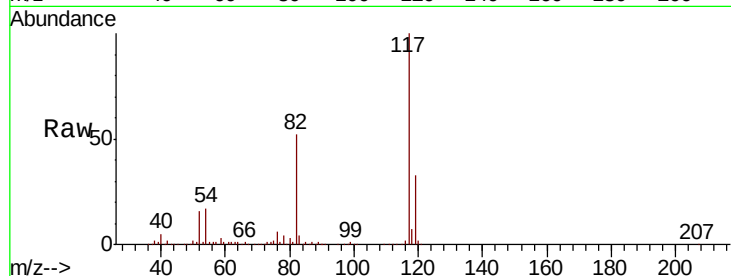




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

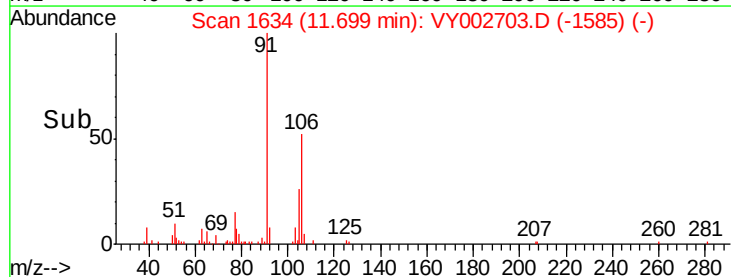
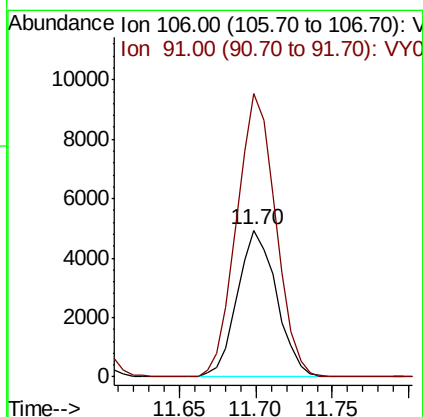
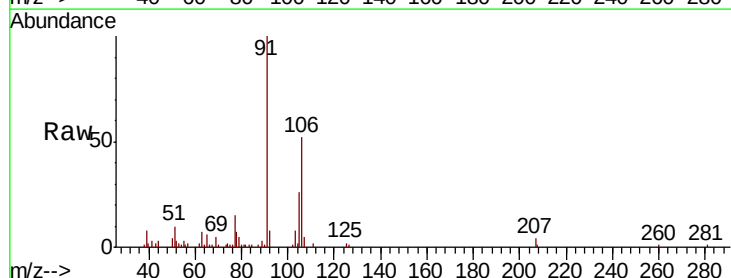
Instrument :
MSVOA_Y
ClientSampleId :

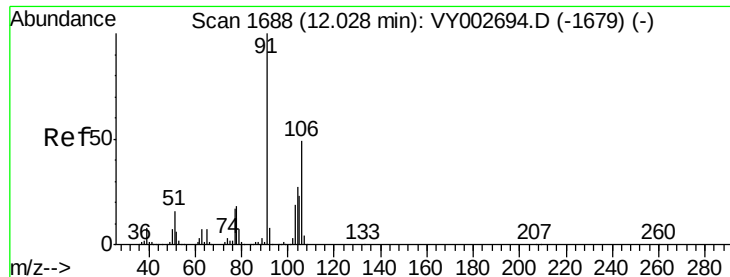
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	40.3	60.5
119	32.8	26.2	39.4



#68
m/p-Xylenes
Concen: 2.070 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.00 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Tgt Ion	Ratio	Lower	Upper
106	100		
91	191.6	156.2	234.4

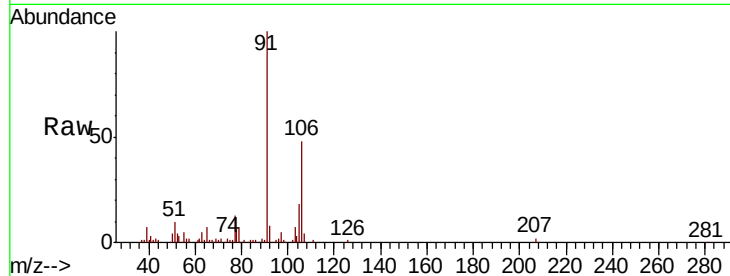




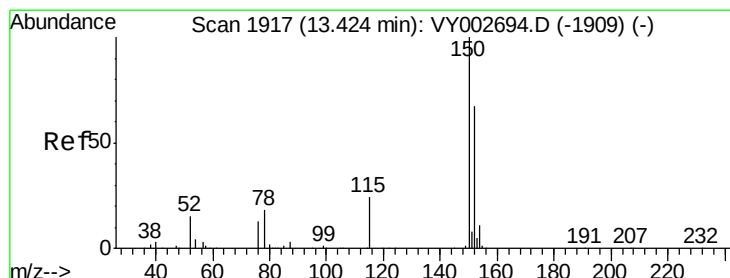
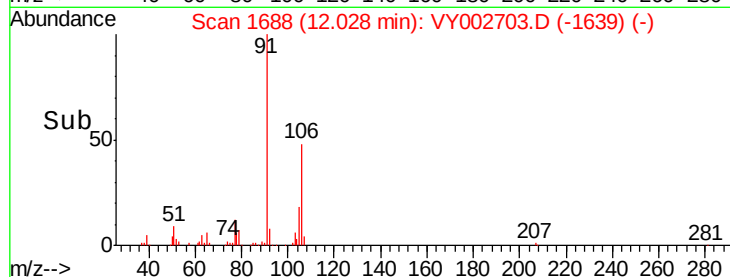
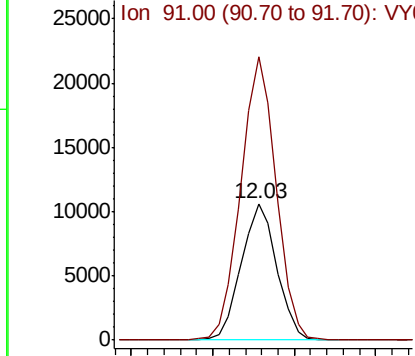
#69
o-Xylene
Concen: 4.021 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:106 Resp: 16031
Ion Ratio Lower Upper
106 100
91 207.2 103.5 310.3

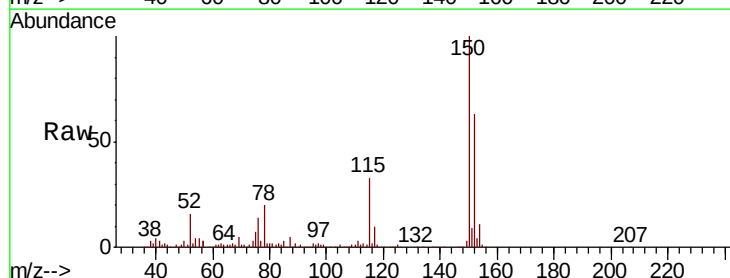


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

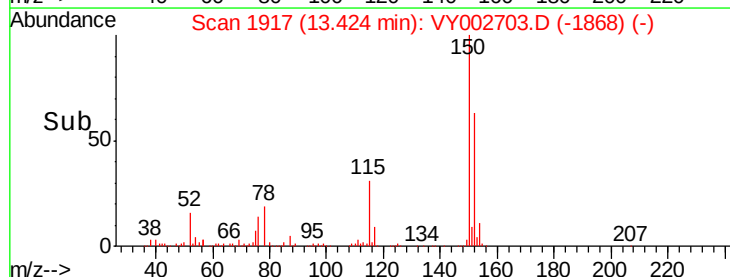
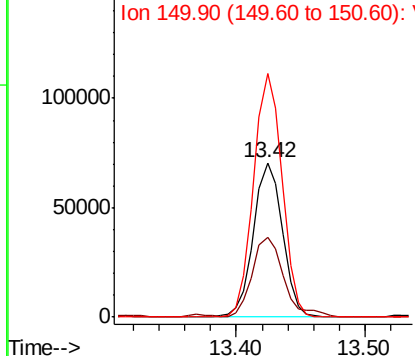


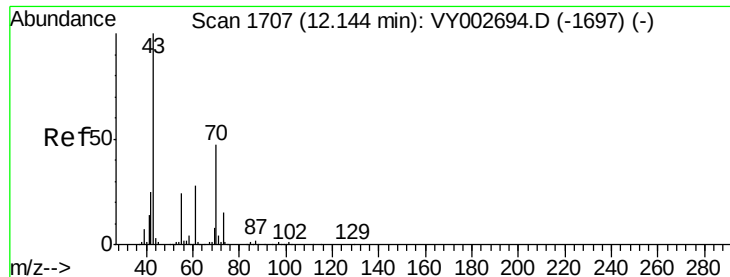
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Tgt Ion:152 Resp: 109734
Ion Ratio Lower Upper
152 100
115 56.2 27.2 81.6
150 154.1 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





#74

N-amvl acetate

Concen: 1.223 ug/l

RT: 12.11 min Scan# 1701

Delta R.T. -0.04 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 2057

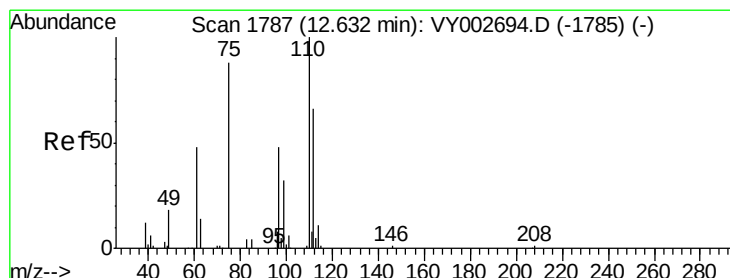
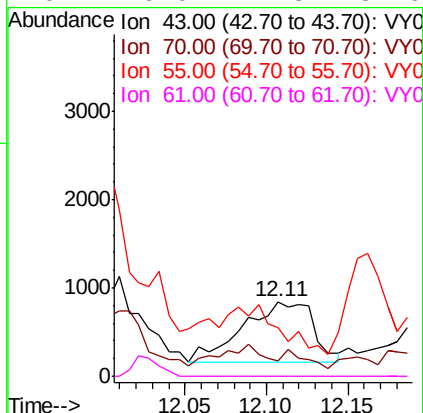
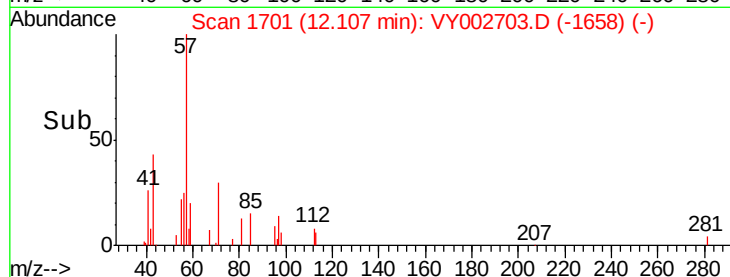
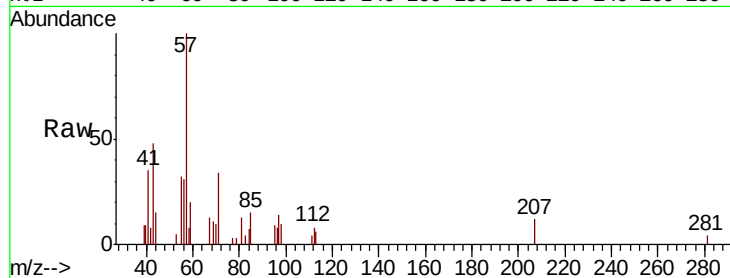
Ion Ratio Lower Upper

43 100

70 21.3 37.7 56.5#

55 77.2 19.4 29.0#

61 0.0 21.3 31.9#



#76

1,2,3-Trichloropropane

Concen: 61.326 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002703.D

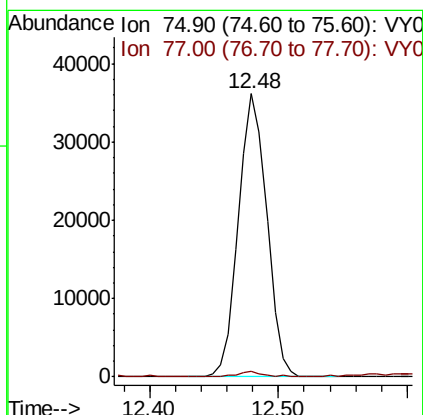
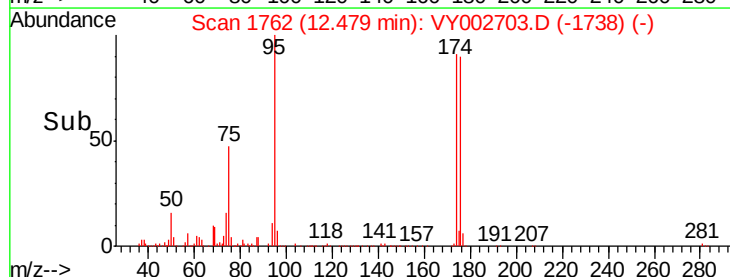
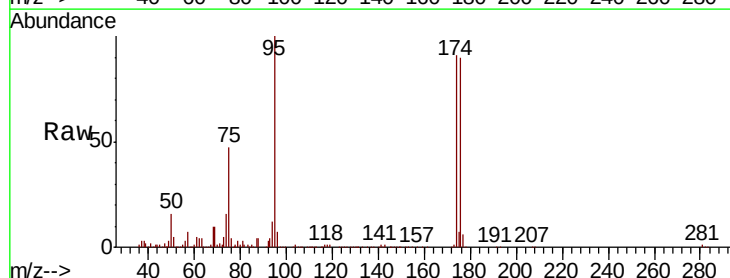
Acq: 18 May 2020 12:05

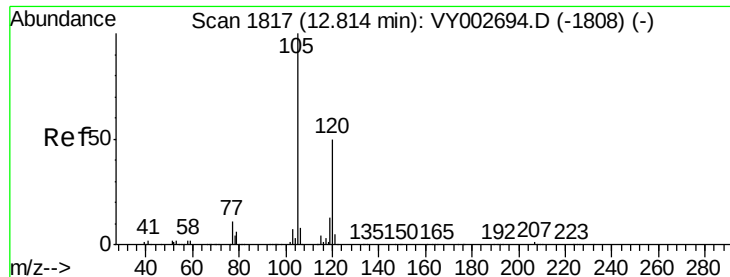
Tgt Ion: 75 Resp: 55281

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 13.068 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.00 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

Instrument :

MSVOA_Y

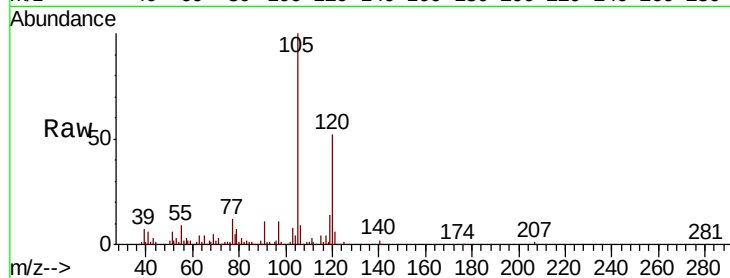
ClientSampled :

Tot Ion:105 Resp: 78730

Ion Ratio Lower Upper

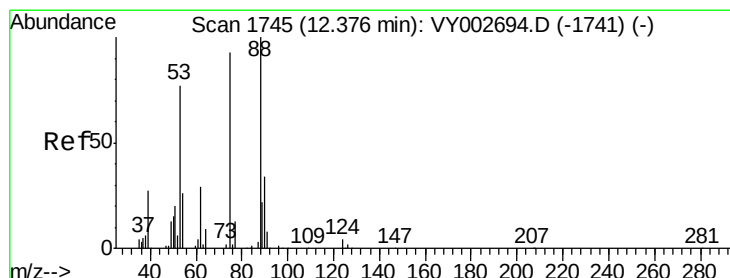
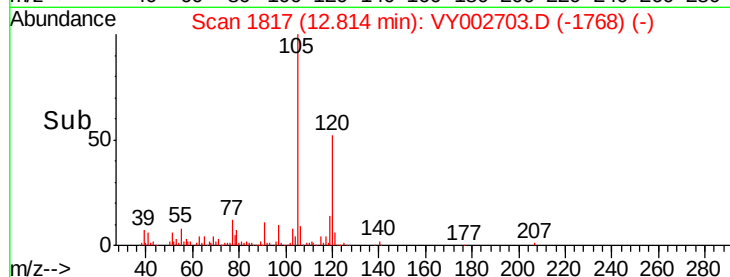
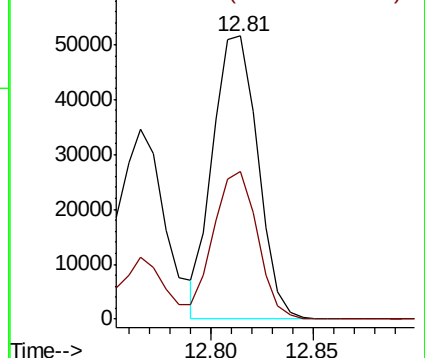
105 100

120 52.1 25.1 75.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 115.980 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

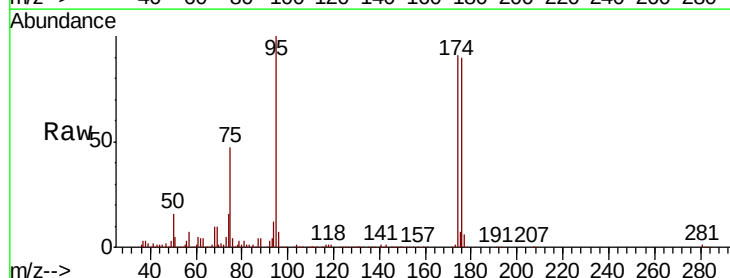
Tgt Ion: 75 Resp: 55281

Ion Ratio Lower Upper

75 100

53 1.3 65.0 97.6#

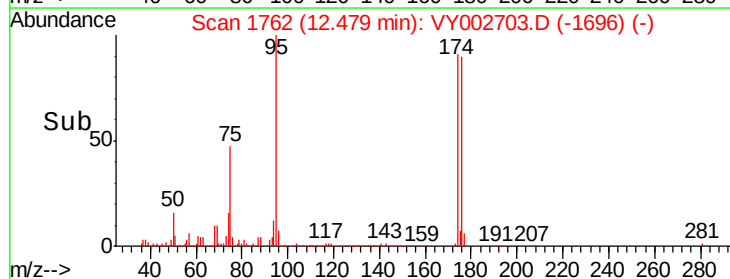
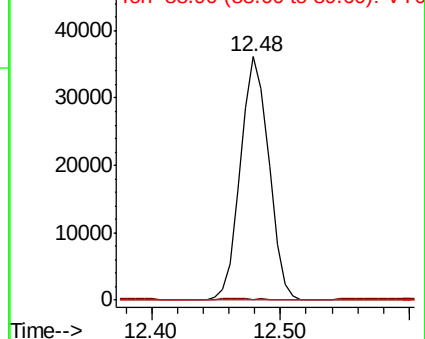
89 0.0 66.6 99.8#

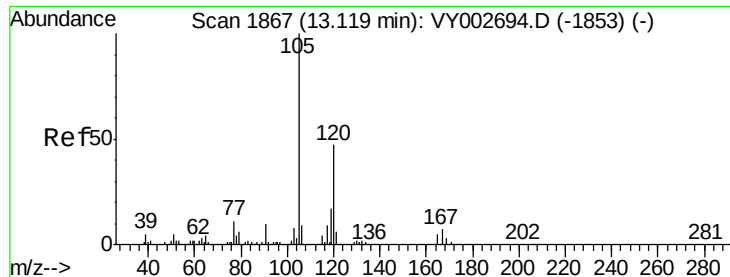


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#84

1,2,4-Trimethylbenzene

Concen: 11.329 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

Instrument :

MSVOA_Y

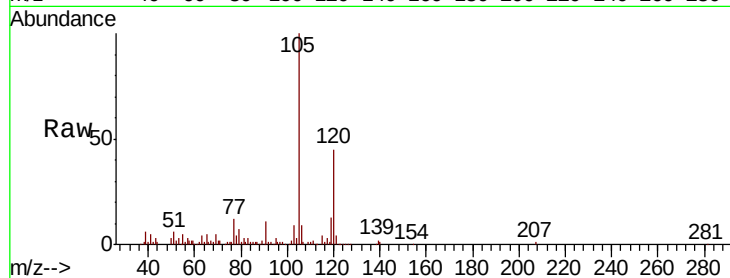
ClientSampleId :

Tot Ion:105 Resp: 68215

Ion Ratio Lower Upper

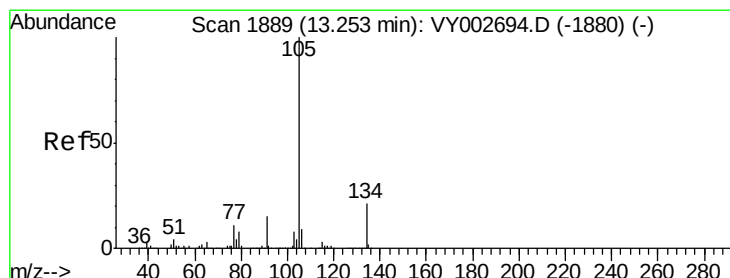
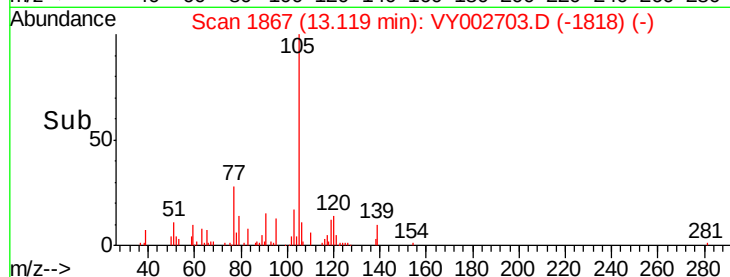
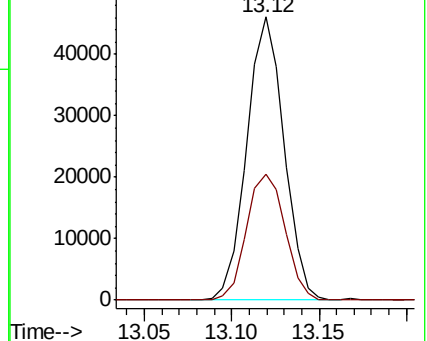
105 100

120 46.3 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 9.271 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.13 min

Lab File: VY002703.D

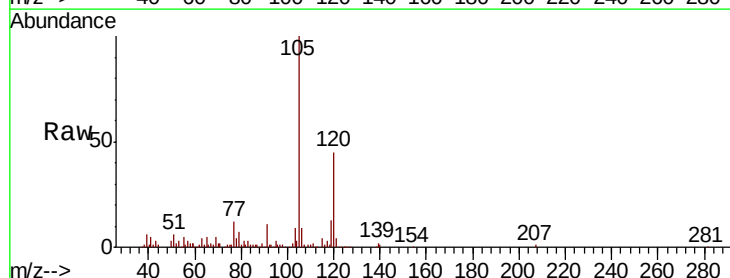
Acq: 18 May 2020 12:05

Tgt Ion:105 Resp: 68215

Ion Ratio Lower Upper

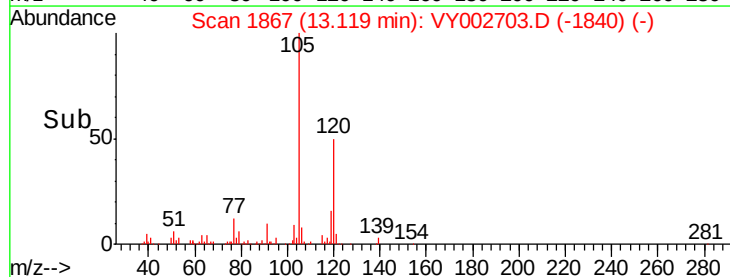
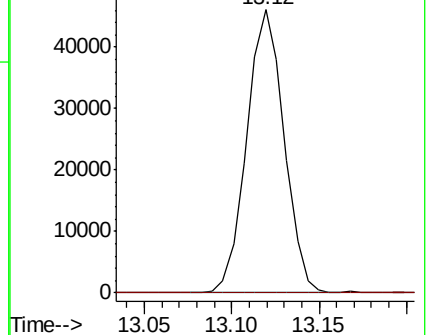
105 100

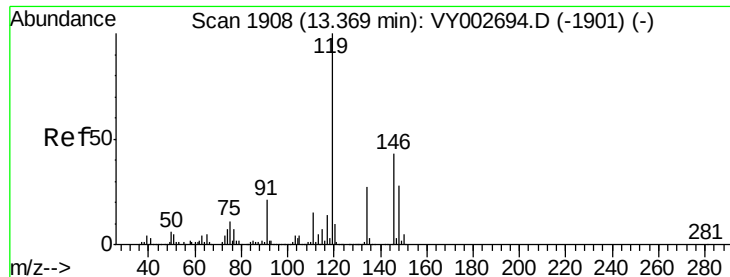
134 0.0 10.8 32.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

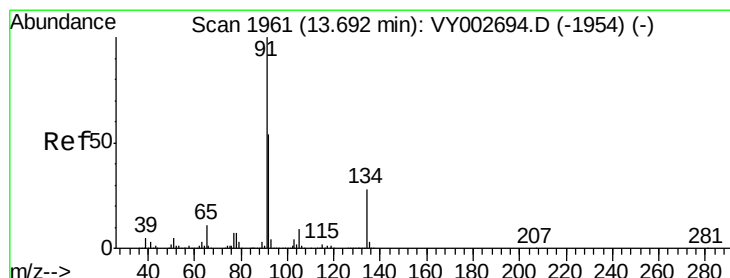
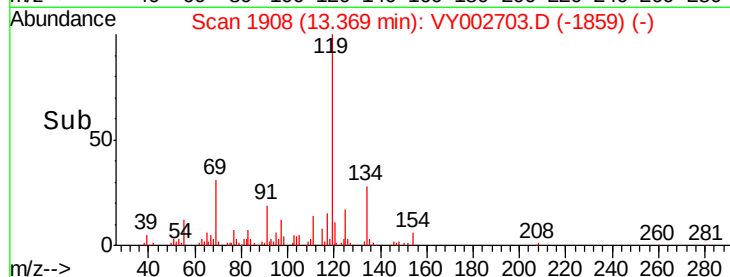
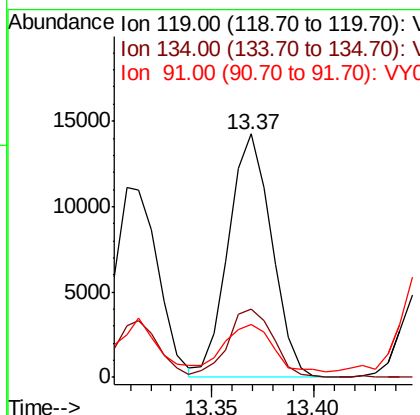
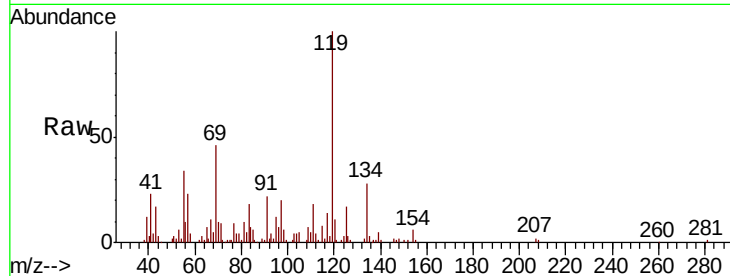




#86
 p-Isopropyltoluene
 Concen: 3.038 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.00 min
 Lab File: VY002703.D
 Acq: 18 May 2020 12:05

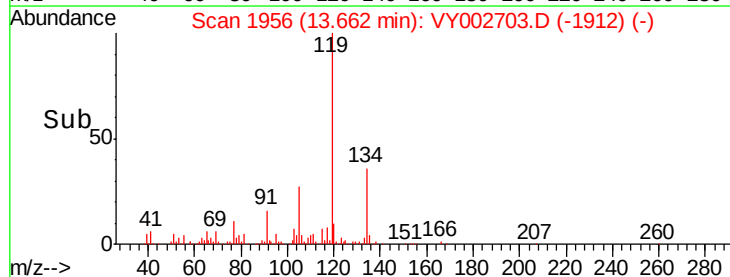
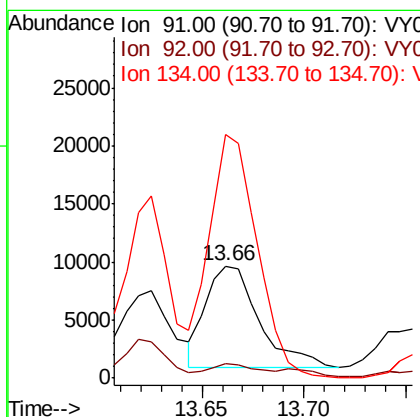
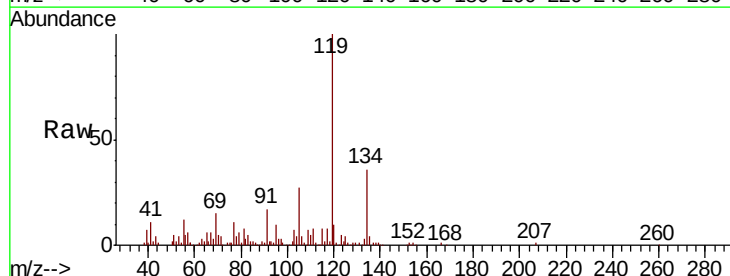
Instrument :
 MSVOA_Y
 ClientSampleId :

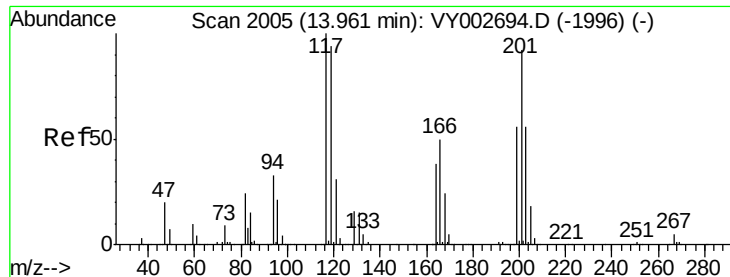
Tot Ion	Ratio	Lower	Upper
119	100		
134	29.4	13.5	40.5
91	20.9	10.8	32.3



#89
 n-Butylbenzene
 Concen: 2.477 ug/l
 RT: 13.66 min Scan# 1956
 Delta R.T. -0.03 min
 Lab File: VY002703.D
 Acq: 18 May 2020 12:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	5.7	26.8	80.4#
134	218.5	14.5	43.5#





#90

Hexachloroethane

Concen: 7.777 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

Instrument :

MSVOA_Y

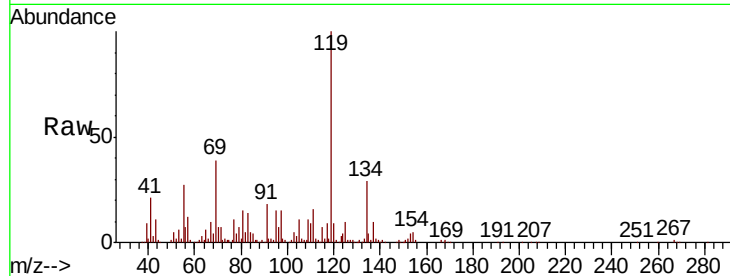
ClientSampleId :

Tot Ion:117 Resp: 9920

Ion Ratio Lower Upper

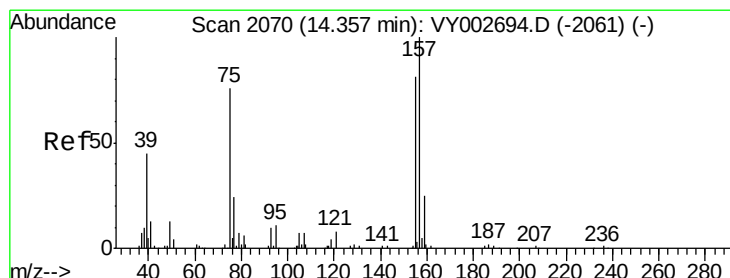
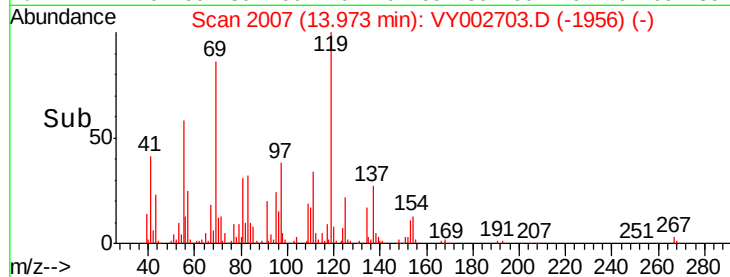
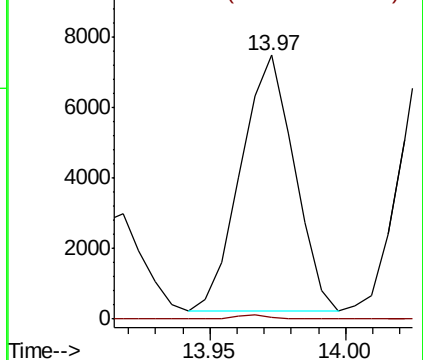
117 100

201 0.9 44.9 134.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.578 ug/l

RT: 14.38 min Scan# 2074

Delta R.T. 0.02 min

Lab File: VY002703.D

Acq: 18 May 2020 12:05

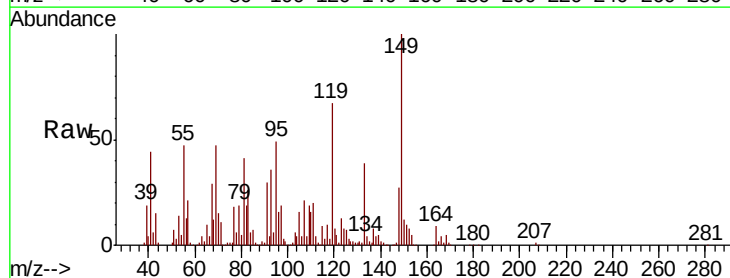
Tgt Ion: 75 Resp: 522

Ion Ratio Lower Upper

75 100

155 92.1 53.5 160.7

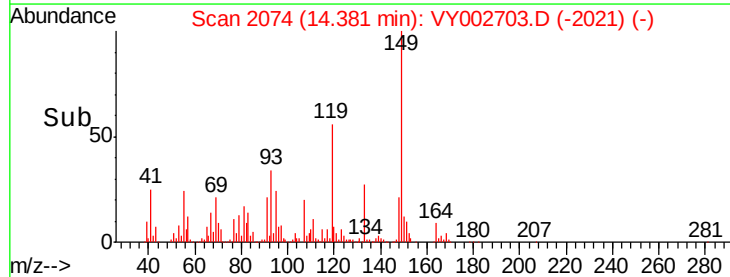
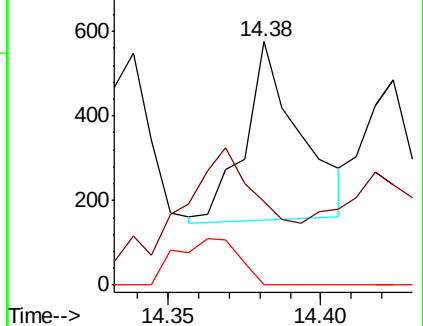
157 30.3 67.9 203.7#

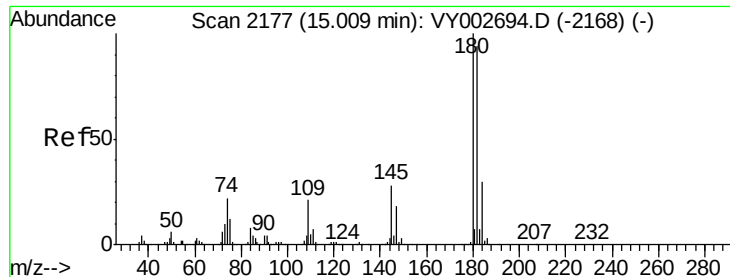


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

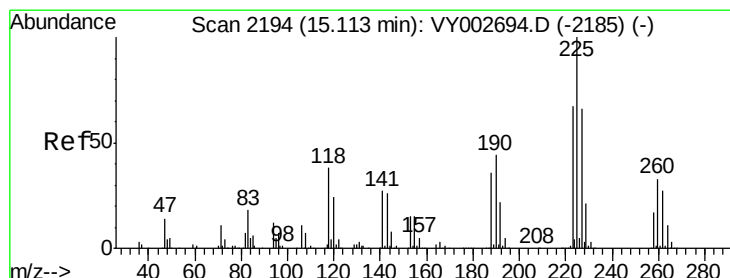
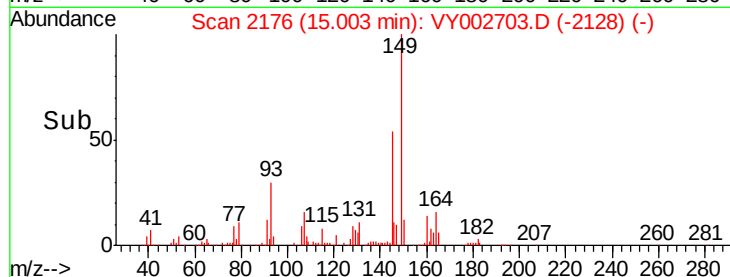
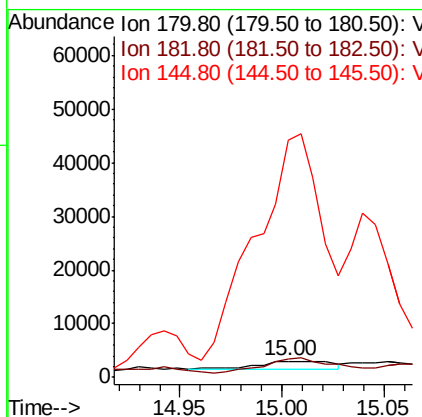
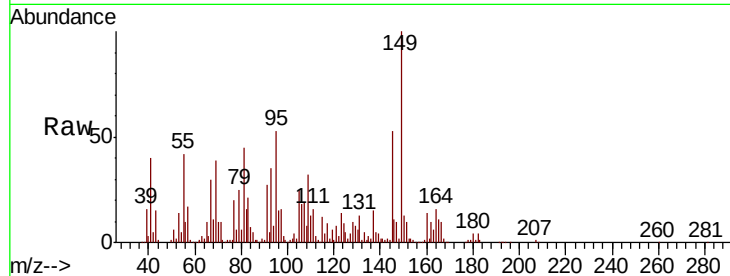




#93
 1,2,4-Trichlorobenzene
 Concen: Below Cal
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY002703.D
 Acq: 18 May 2020 12:05

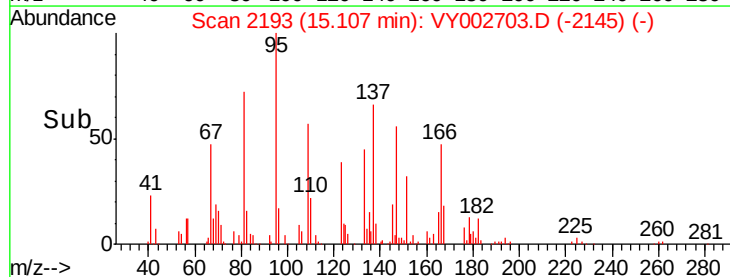
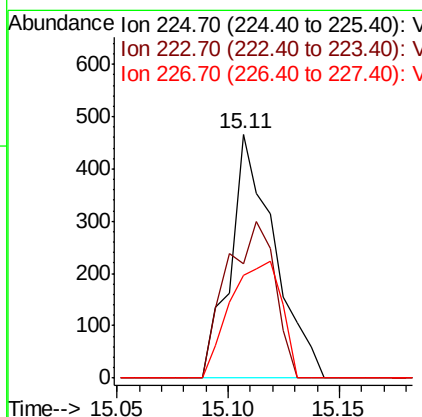
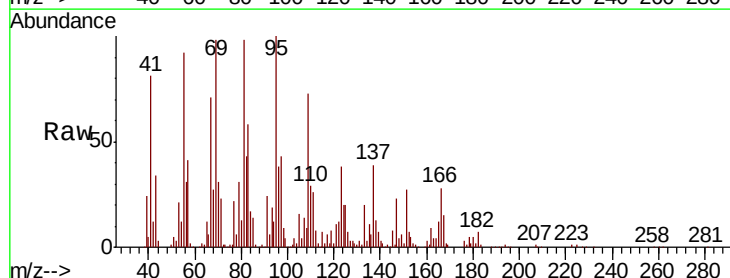
Instrument :
 MSVOA_Y
 ClientSampled :

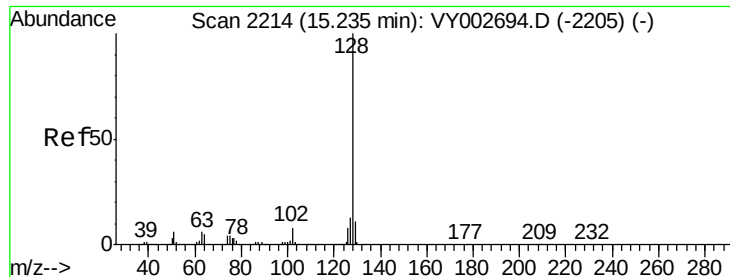
Tot Ion:180 Resp: 3951
 Ion Ratio Lower Upper
 180 100
 182 161.8 47.3 142.0#
 145 2740.1 14.1 42.2#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY002703.D
 Acq: 18 May 2020 12:05

Tgt Ion:225 Resp: 642
 Ion Ratio Lower Upper
 225 100
 223 70.1 31.6 94.8
 227 55.8 32.2 96.6

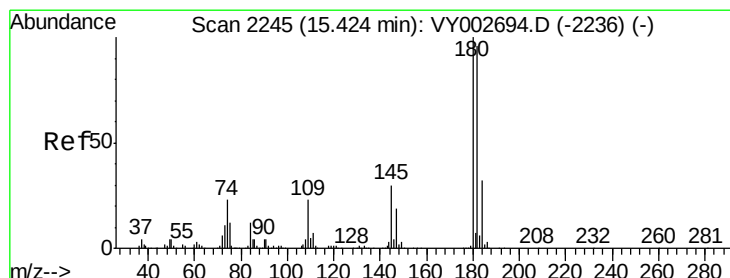
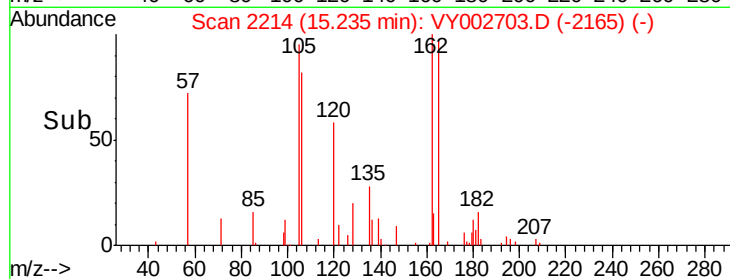
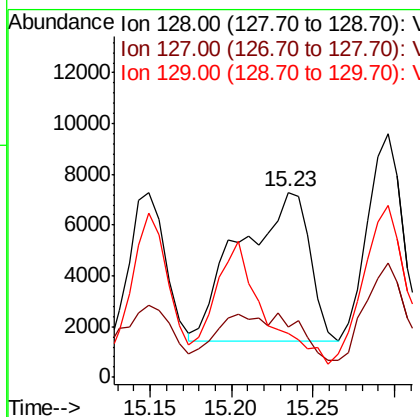
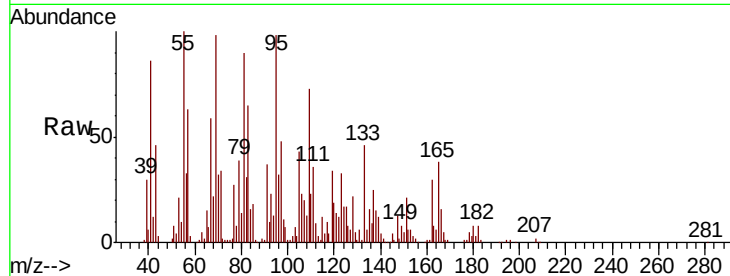




#95
Naphthalene
Concen: 4.060 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:128 Resp: 17332
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 7.841 ug/l
RT: 15.45 min Scan# 2249
Delta R.T. 0.03 min
Lab File: VY002703.D
Acq: 18 May 2020 12:05

Tgt Ion:180 Resp: 20349
Ion Ratio Lower Upper
180 100
182 0.0 47.6 142.9#
145 0.0 15.1 45.3#

