

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY051920\
 Data File : VY002713.D
 Acq On : 19 May 2020 10:37
 Operator : SY/MD
 Sample : VY0519SBL01
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: May 20 04:09:41 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	344103	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	537417	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	490057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	235285	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	149675	55.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.22%	
35) Dibromofluoromethane	7.72	113	162087	54.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.30%	
50) Toluene-d8	10.18	98	625908	52.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.48	95	206095	50.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.44%	

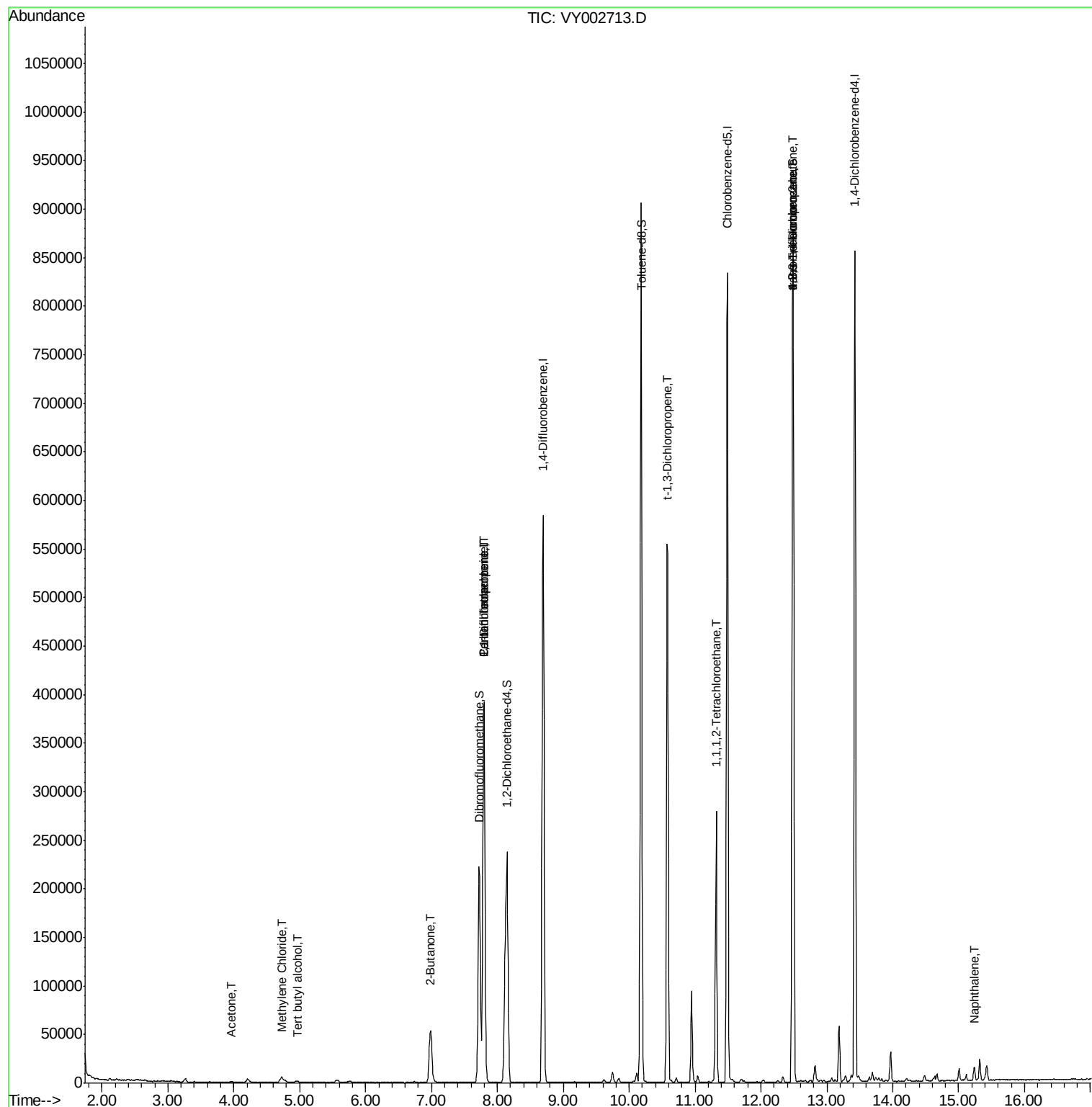
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.96	59	2181	7.979	ug/l #	77
16) Acetone	3.96	43	1504	2.711	ug/l	99
20) Methylene Chloride	4.72	84	3962	1.181	ug/l	91
25) 2-Butanone	6.98	43	2991	3.258	ug/l #	68
36) 1,1-Dichloropropene	7.80	75	21241	4.669	ug/l #	49
38) Carbon Tetrachloride	7.80	117	30410	6.219	ug/l #	16
53) t-1,3-Dichloropropene	10.58	75	5814	1.261	ug/l #	57
66) 1,1,1,2-Tetrachloroethane	11.31	131	4225	1.202	ug/l #	1
76) 1,2,3-Trichloropropane	12.48	75	99985	51.731	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	99985	97.834	ug/l #	9
93) 1,2,4-Trichlorobenzene	15.01	180	3810	Below Cal		98
94) Hexachlorobutadiene	15.11	225	1157	Below Cal		94
95) Naphthalene	15.24	128	11767	1.286	ug/l	98
96) 1,2,3-Trichlorobenzene	15.42	180	5363	Below Cal		98

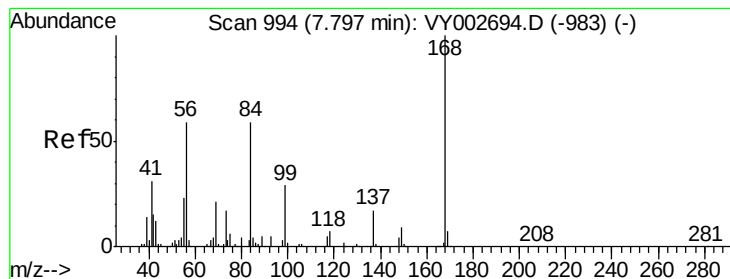
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

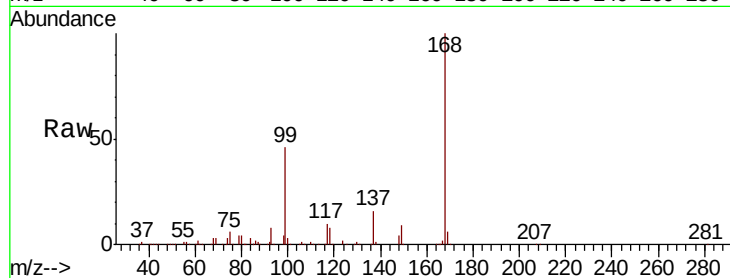
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 344103

Ion Ratio Lower Upper

168 100

99 46.1 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002713.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY002713.D (-945) (-)

7.80

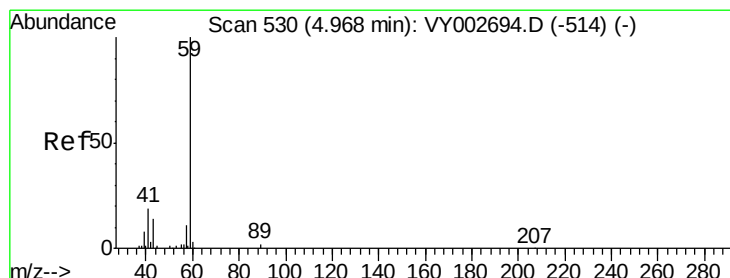
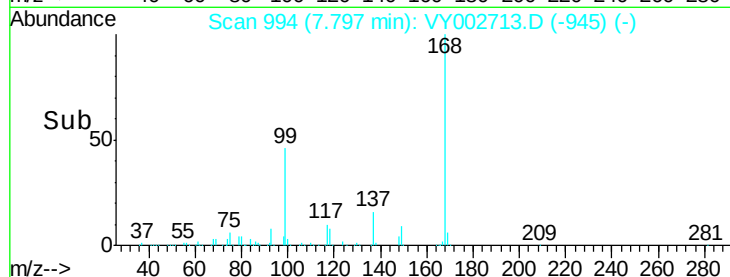
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 7.979 ug/l

RT: 4.96 min Scan# 529

Delta R.T. -0.01 min

Lab File: VY002713.D

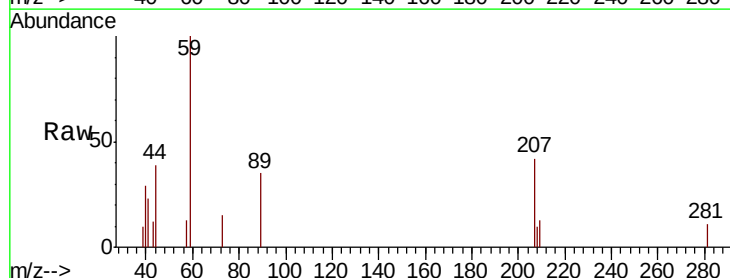
Acq: 19 May 2020 10:37

Tgt Ion: 59 Resp: 2181

Ion Ratio Lower Upper

59 100

57 1.2 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VY002713.D (-481) (-)

Ion 57.00 (56.70 to 57.70): VY002713.D (-481) (-)

4.96

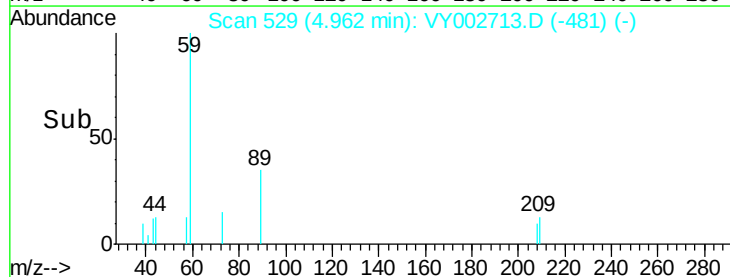
600

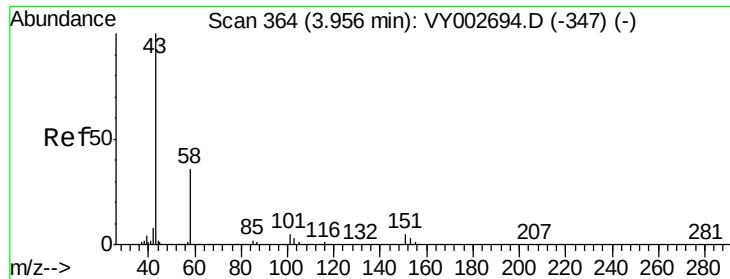
400

200

0

Time-->

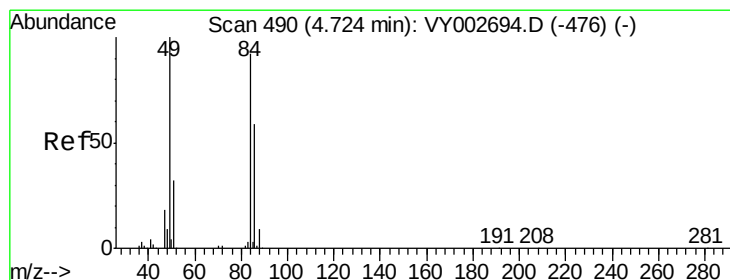
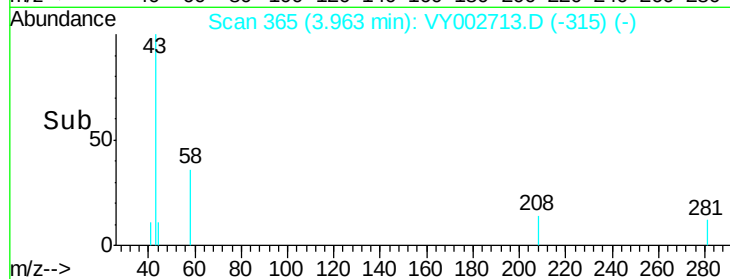
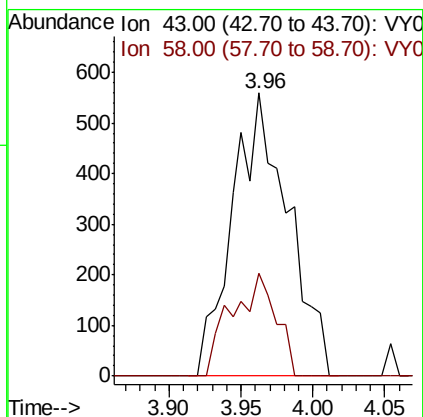
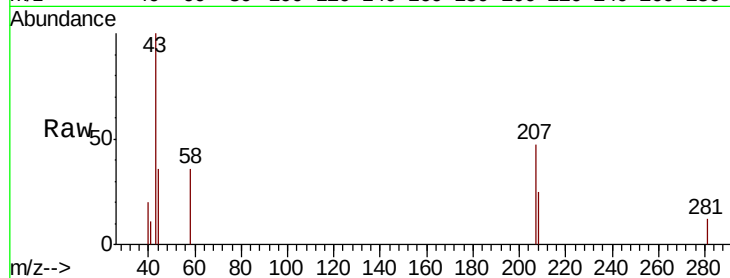




#16
Acetone
Concen: 2.711 ug/l
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VY002713.D
Acq: 19 May 2020 10:37

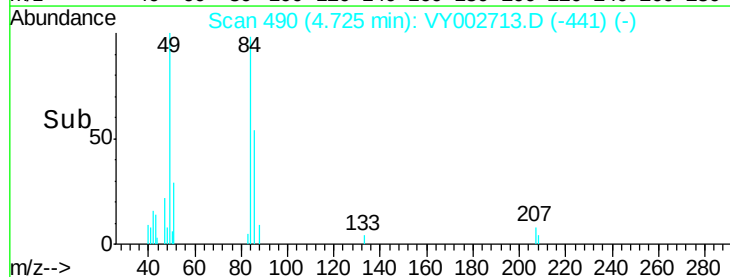
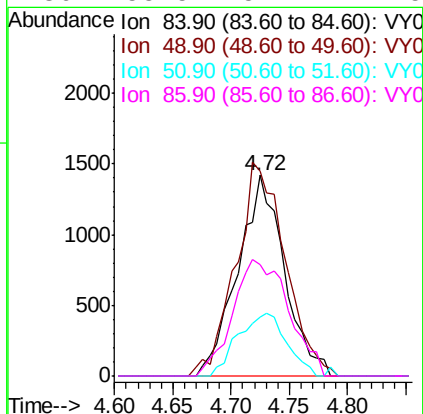
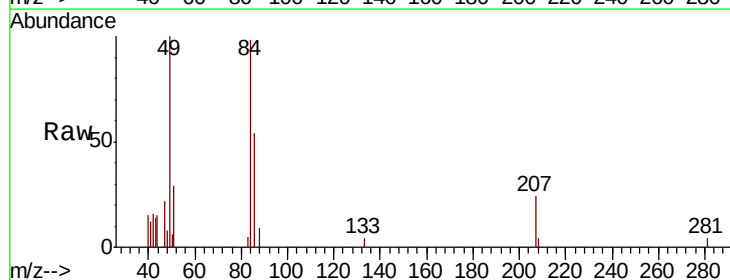
Instrument :
MSVOA_Y
ClientSampleId :

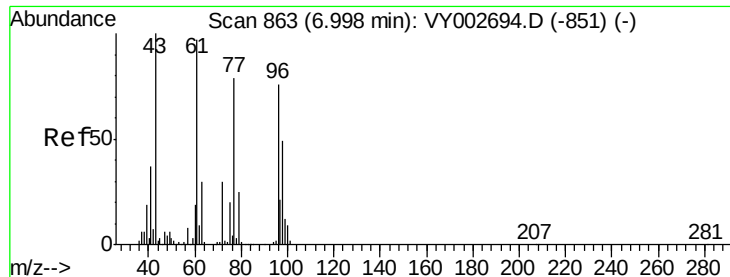
Tot Ion: 43 Resp: 1504
Ion Ratio Lower Upper
43 100
58 36.1 28.6 43.0



#20
Methylene Chloride
Concen: 1.181 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY002713.D
Acq: 19 May 2020 10:37

Tgt Ion: 84 Resp: 3962
Ion Ratio Lower Upper
84 100
49 101.8 87.4 131.0
51 29.2 27.9 41.9
86 55.5 51.7 77.5





#25

2-Butanone

Concen: 3.258 ug/l

RT: 6.98 min Scan# 860

Delta R.T. -0.02 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

Instrument :

MSVOA_Y

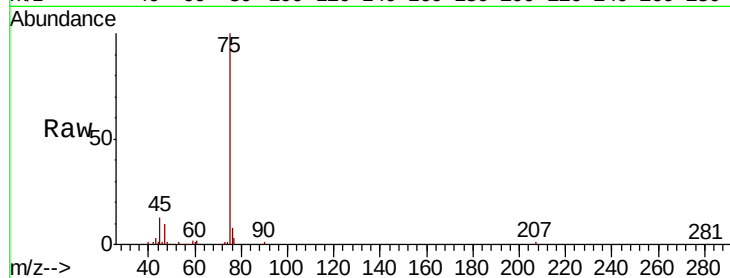
ClientSampled :

Tot Ion: 43 Resp: 2991

Ion Ratio Lower Upper

43 100

72 12.6 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

6.98

1000

800

600

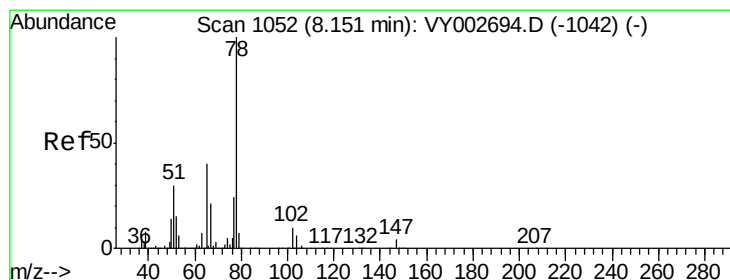
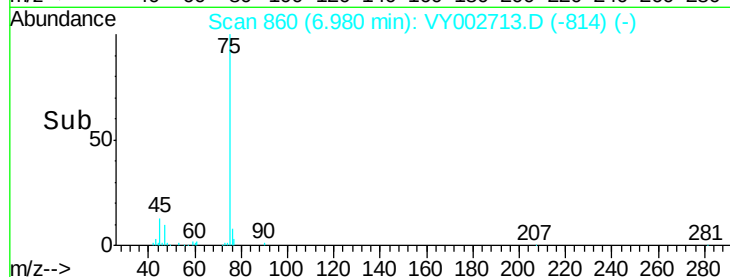
400

200

0

6.90 6.95 7.00 7.05

Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.608 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VY002713.D

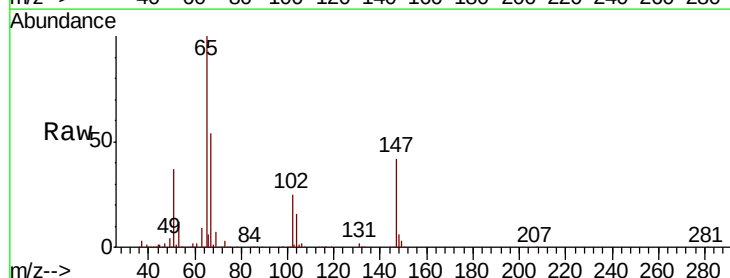
Acq: 19 May 2020 10:37

Tgt Ion: 65 Resp: 149675

Ion Ratio Lower Upper

65 100

67 55.1 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

8.14

80000

60000

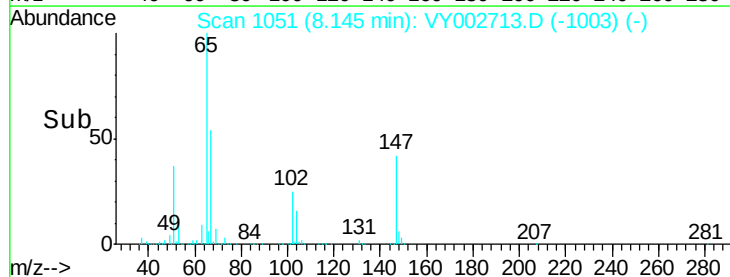
40000

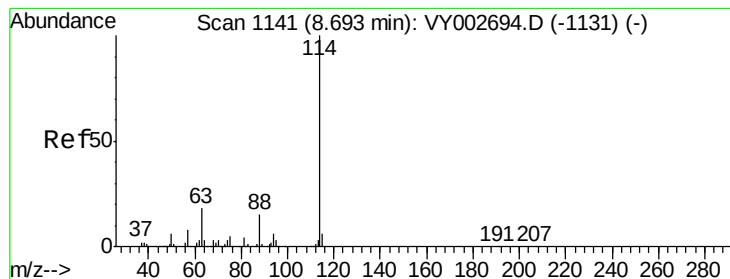
20000

0

8.00 8.10 8.20 8.30

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

Instrument :

MSVOA_Y

ClientSampleId :

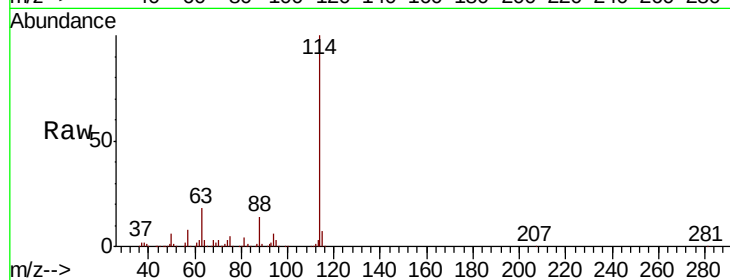
Tot Ion:114 Resp: 537417

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.4

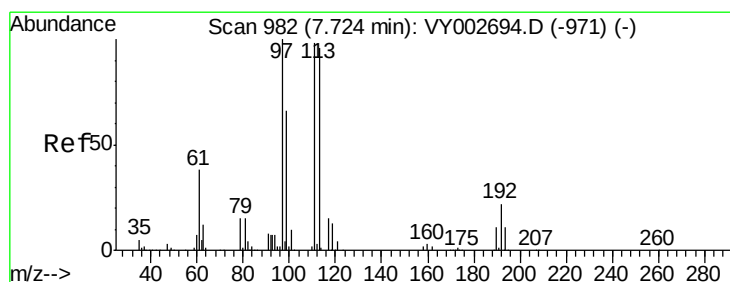
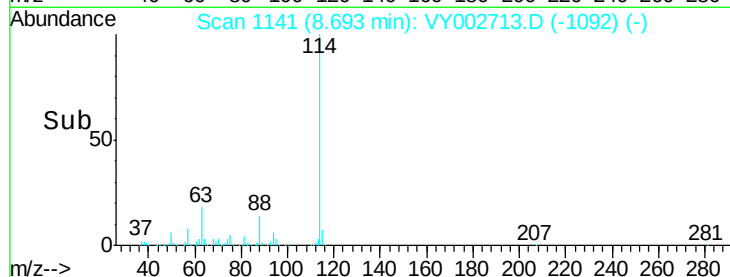
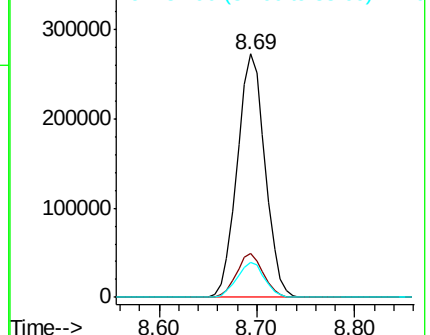
88 14.4 0.0 29.4



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: 54.651 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.00 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

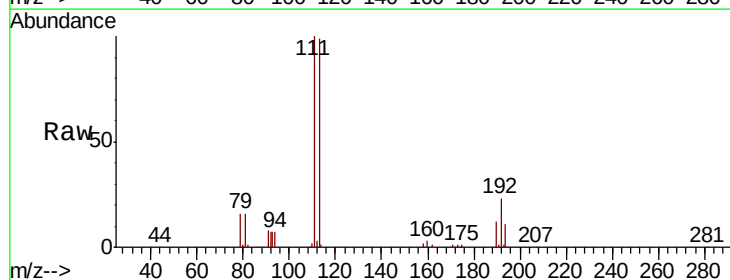
Tgt Ion:113 Resp: 162087

Ion Ratio Lower Upper

113 100

111 101.7 81.9 122.9

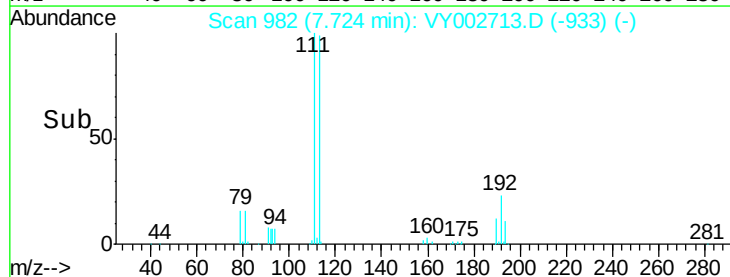
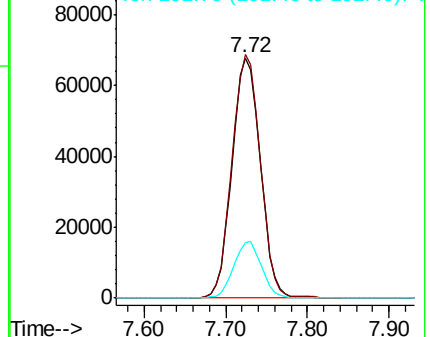
192 23.1 18.6 27.8

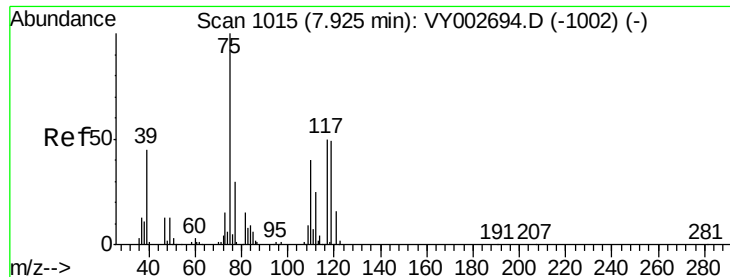


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

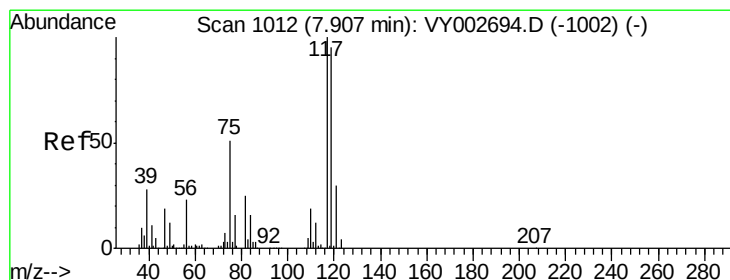
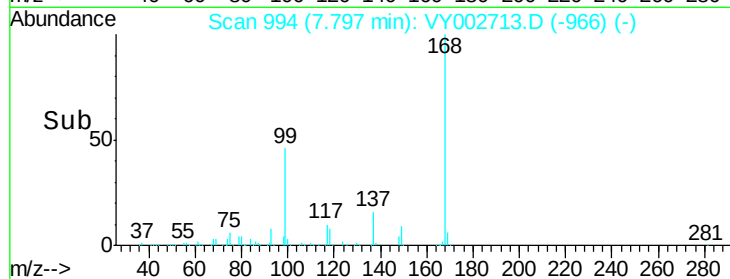
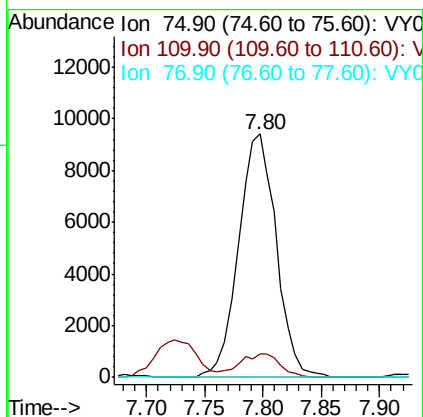
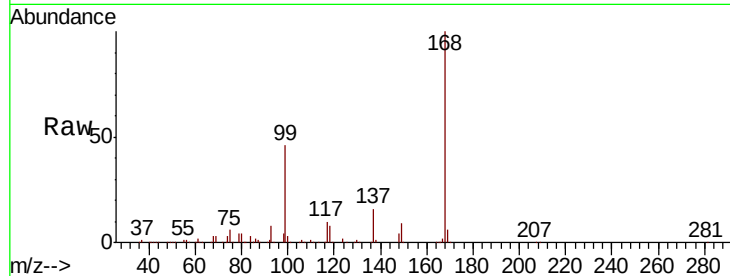




#36
 1,1-Dichloropropene
 Concen: 4.669 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY002713.D
 Acq: 19 May 2020 10:37

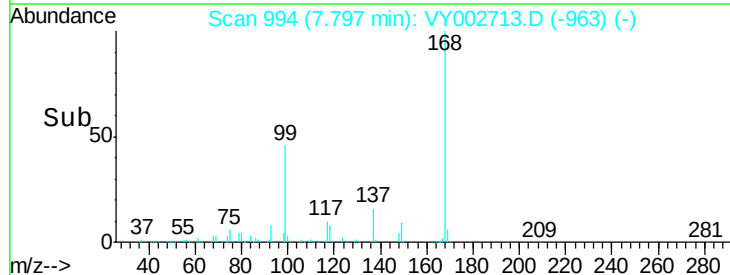
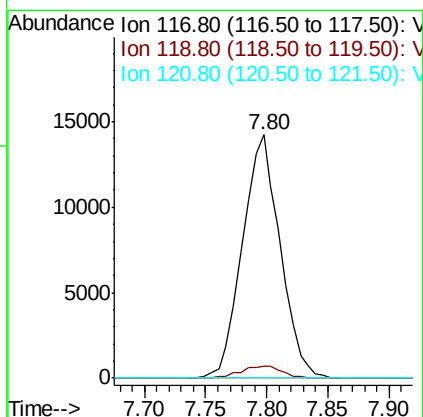
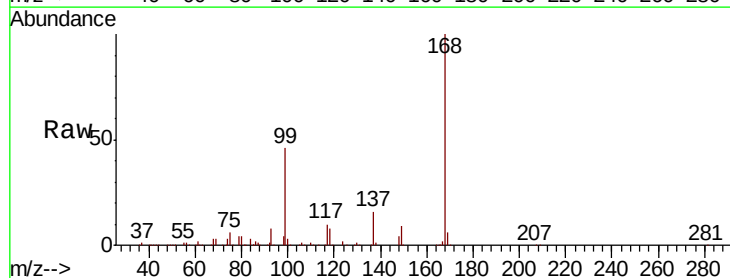
Instrument :
 MSVOA_Y
 ClientSampleId :

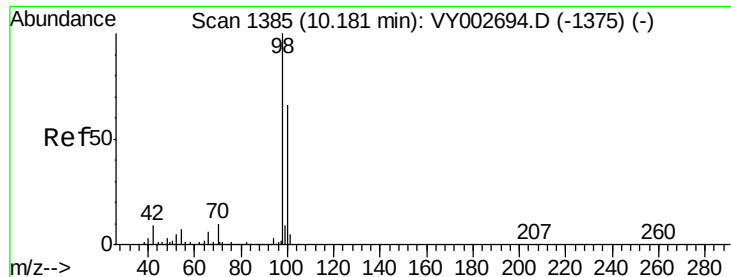
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.4	19.4	58.4#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.219 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.11 min
 Lab File: VY002713.D
 Acq: 19 May 2020 10:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.3	114.5#
121	0.0	24.2	36.2#





#50

Toluene-d8

Concen: 52.417 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

Instrument :

MSVOA_Y

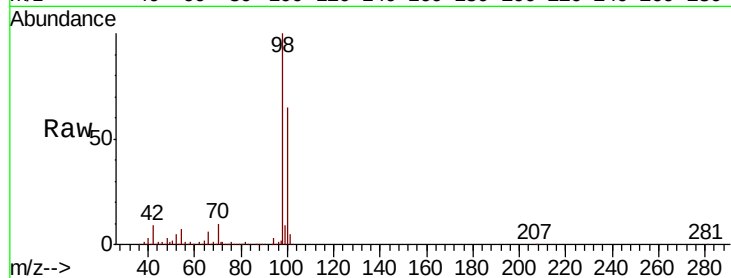
ClientSampleId :

Tot Ion: 98 Resp: 625908

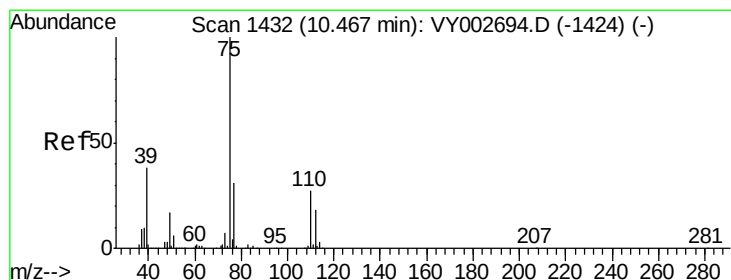
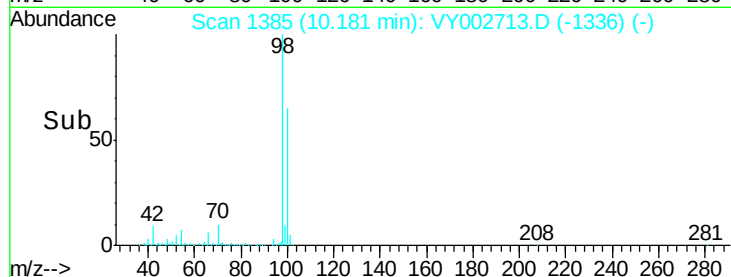
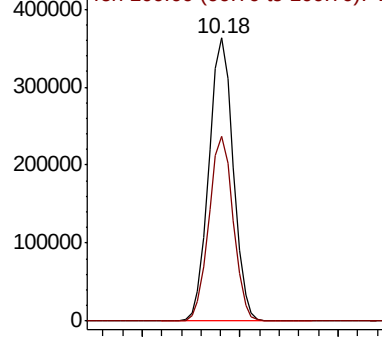
Ion Ratio Lower Upper

98 100

100 65.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VY002713.D (-1385) (-)



#53

t-1,3-Dichloropropene

Concen: 1.261 ug/l

RT: 10.58 min Scan# 1450

Delta R.T. 0.11 min

Lab File: VY002713.D

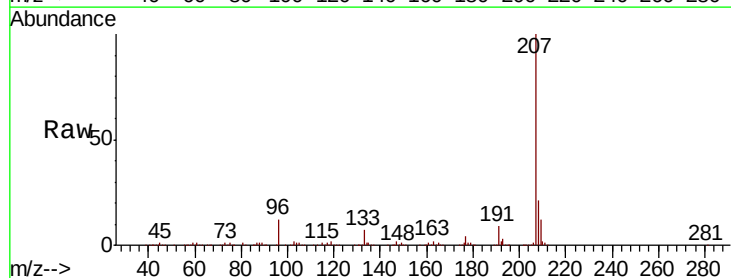
Acq: 19 May 2020 10:37

Tgt Ion: 75 Resp: 5814

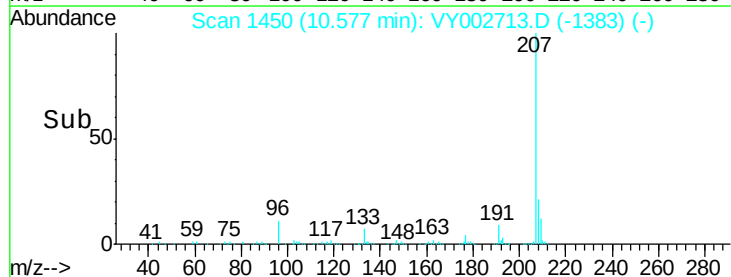
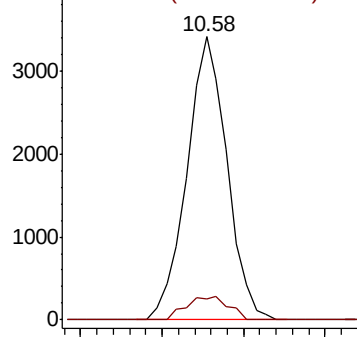
Ion Ratio Lower Upper

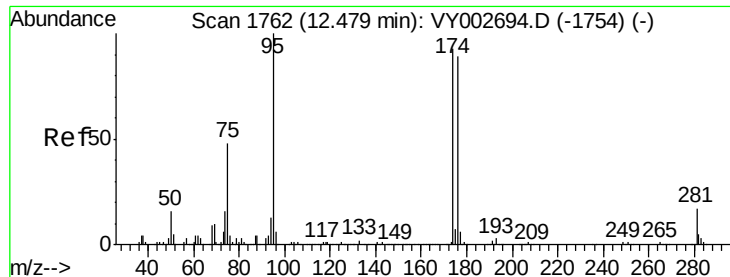
75 100

77 7.5 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VY002713.D (-1432) (-)

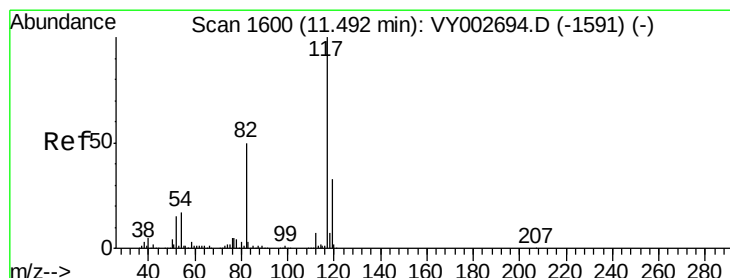
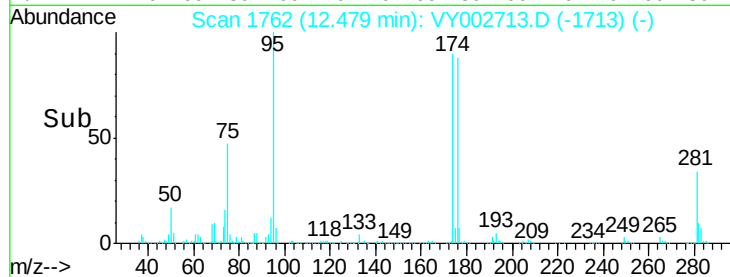
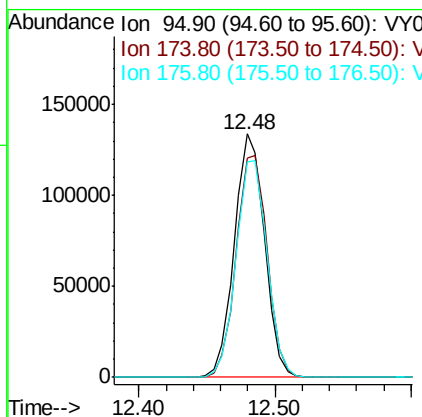
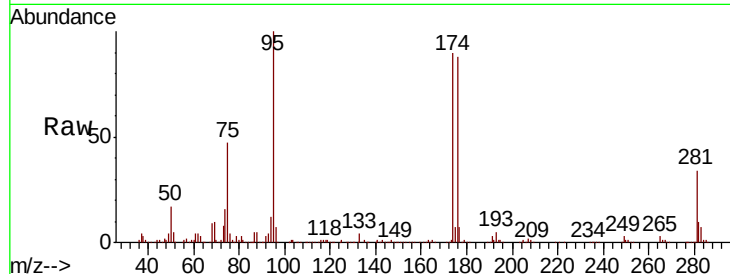




#62
4-Bromofluorobenzene
Concen: 50.217 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY002713.D
Acq: 19 May 2020 10:37

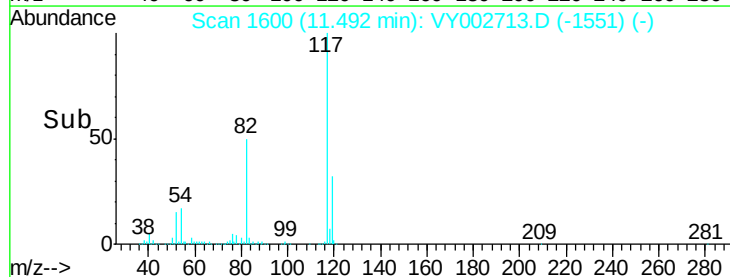
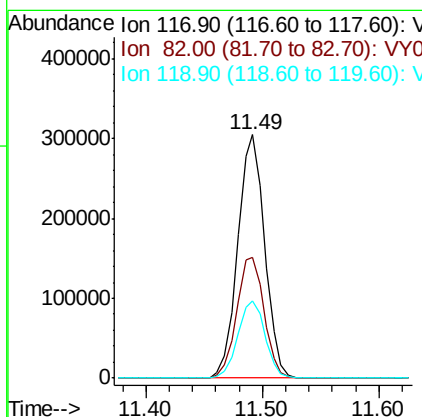
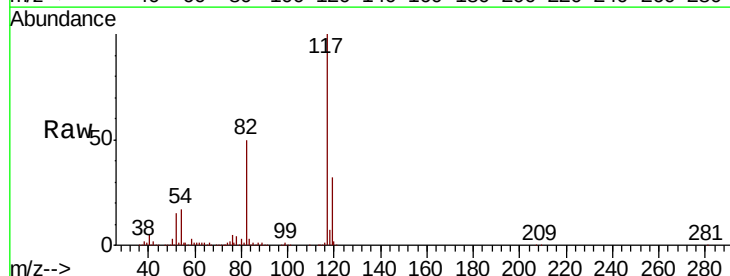
Instrument :
MSVOA_Y
ClientSampleId :

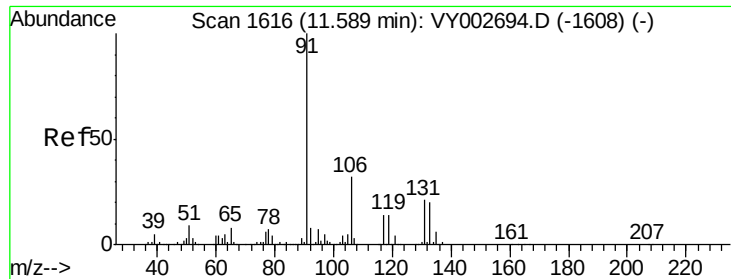
Tot Ion	Ratio	Lower	Upper
95	100		
174	94.3	0.0	191.4
176	92.0	0.0	186.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY002713.D
Acq: 19 May 2020 10:37

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.5	40.3	60.5
119	31.6	26.2	39.4





#66

1,1,1,2-Tetrachloroethane

Concen: 1.202 ug/l

RT: 11.31 min Scan# 1571

Delta R.T. -0.27 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

Instrument :

MSVOA_Y

ClientSampled :

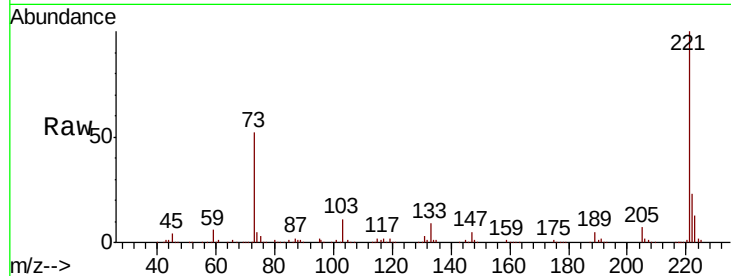
Tot Ion:131 Resp: 4225

Ion Ratio Lower Upper

131 100

133 312.4 47.4 142.3#

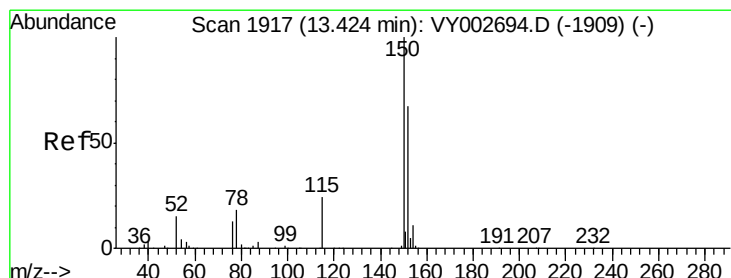
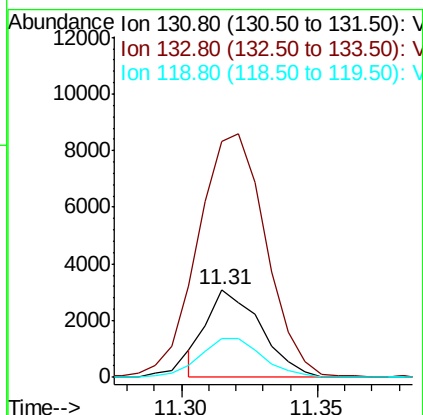
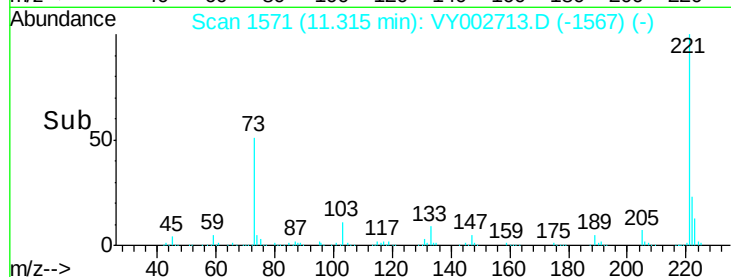
119 0.0 31.6 94.8#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

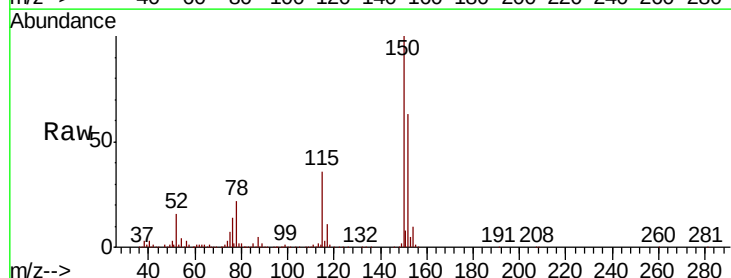
Tgt Ion:152 Resp: 235285

Ion Ratio Lower Upper

152 100

115 54.6 27.2 81.6

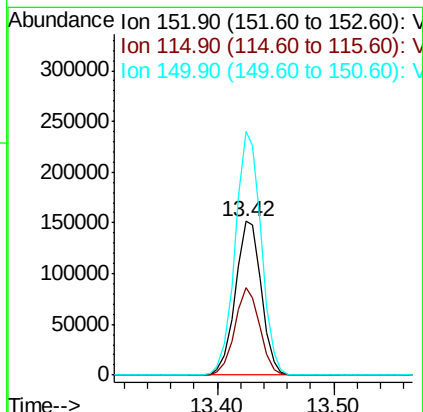
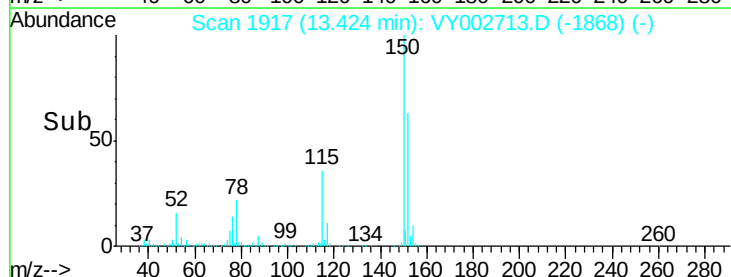
150 157.5 0.0 343.8

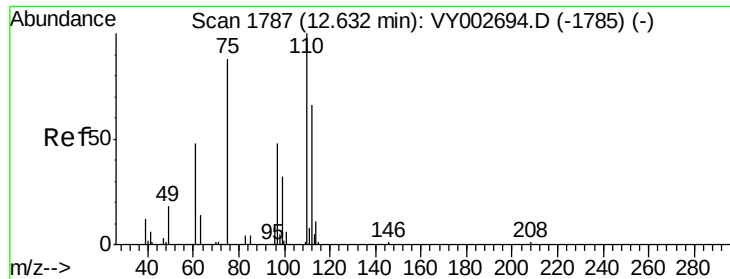


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 51.731 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

Instrument :

MSVOA_Y

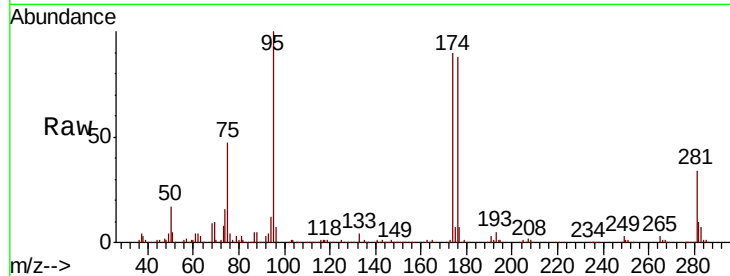
ClientSampleId :

Tot Ion: 75 Resp: 99985

Ion Ratio Lower Upper

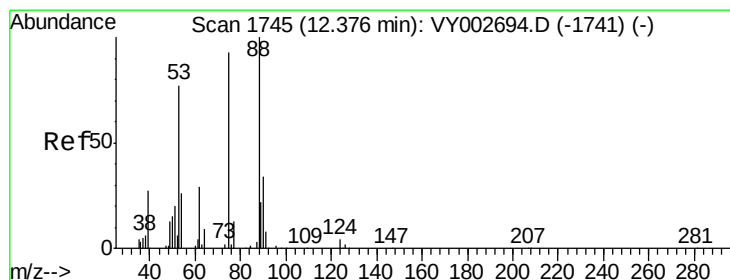
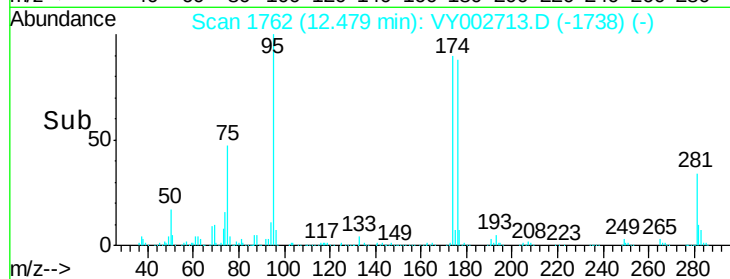
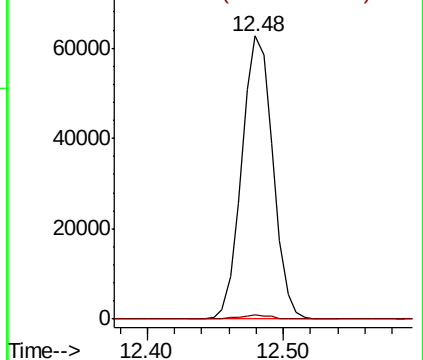
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 97.834 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

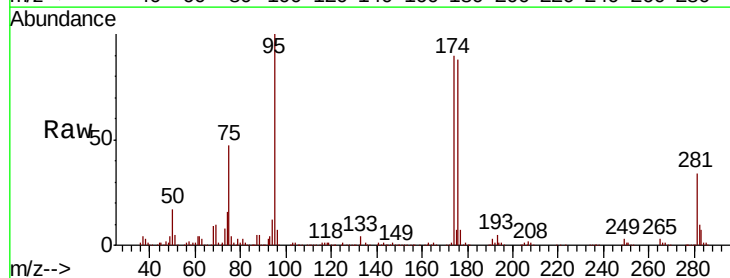
Tgt Ion: 75 Resp: 99985

Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.6#

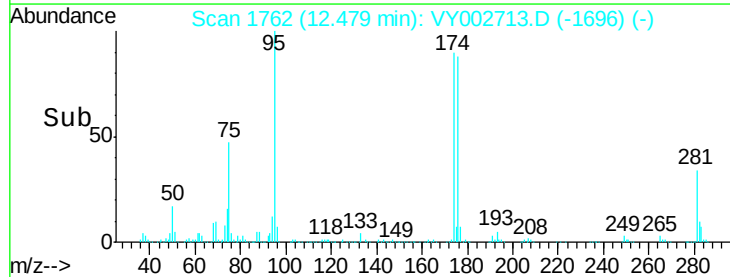
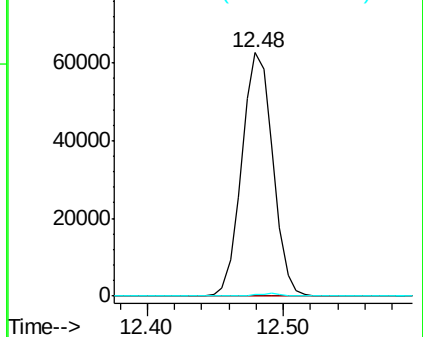
89 1.0 66.6 99.8#

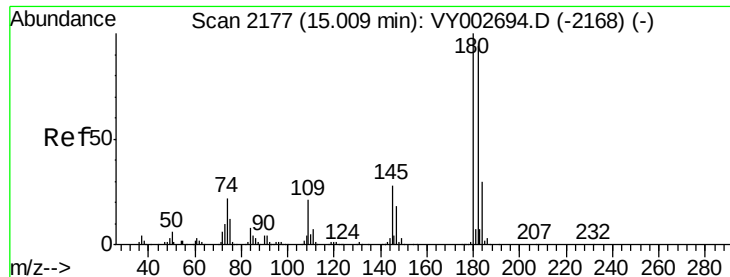


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

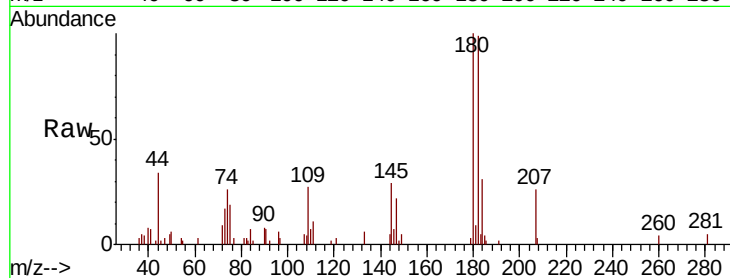




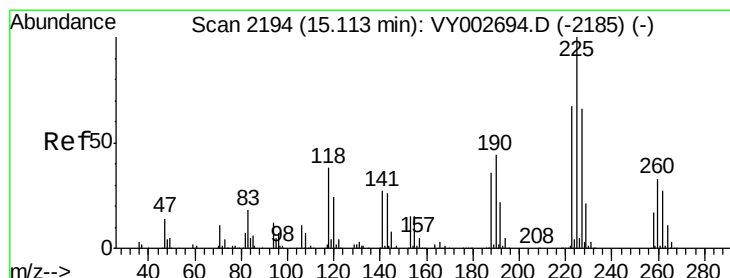
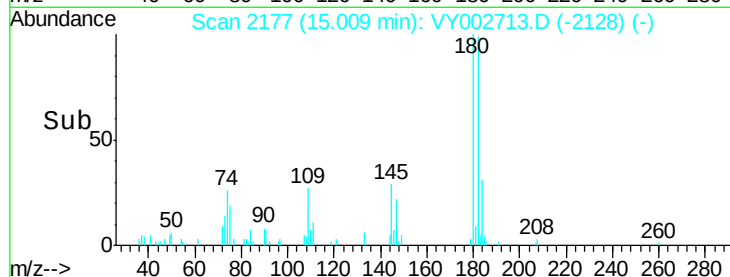
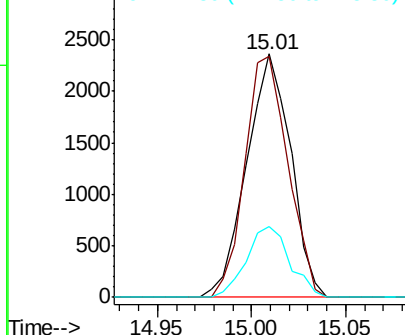
#93
 1,2,4-Trichlorobenzene
 Concen: Below Cal
 RT: 15.01 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VY002713.D
 Acq: 19 May 2020 10:37

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:180 Resp: 3810
 Ion Ratio Lower Upper
 180 100
 182 97.3 47.3 142.0
 145 28.8 14.1 42.2

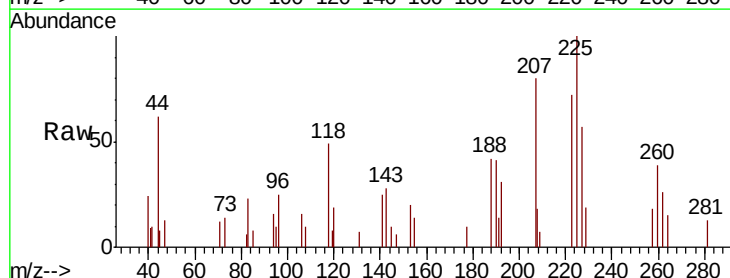


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

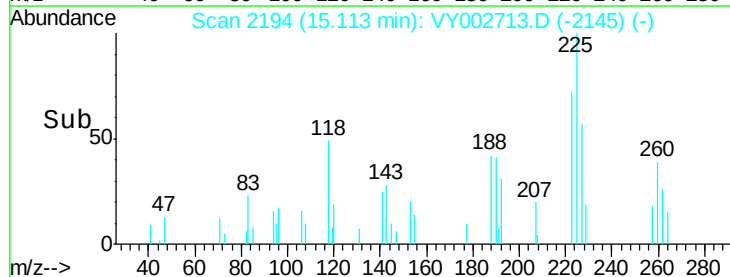
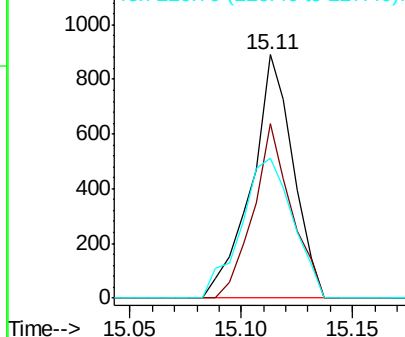


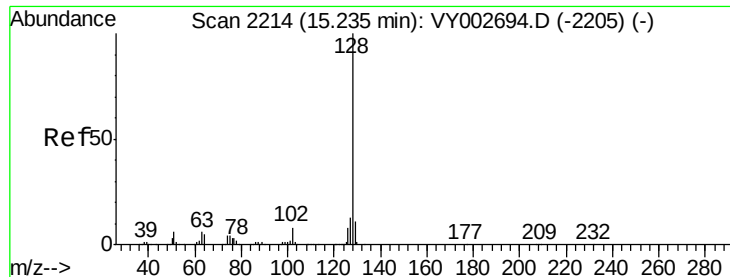
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.11 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VY002713.D
 Acq: 19 May 2020 10:37

Tgt Ion:225 Resp: 1157
 Ion Ratio Lower Upper
 225 100
 223 65.3 31.6 94.8
 227 71.9 32.2 96.6



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.286 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. 0.01 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

Instrument :

MSVOA_Y

ClientSampleId :

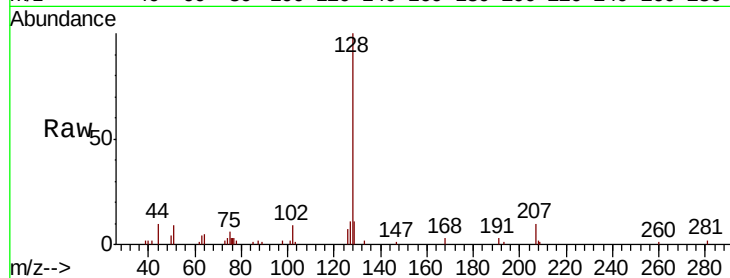
Tot Ion:128 Resp: 11767

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

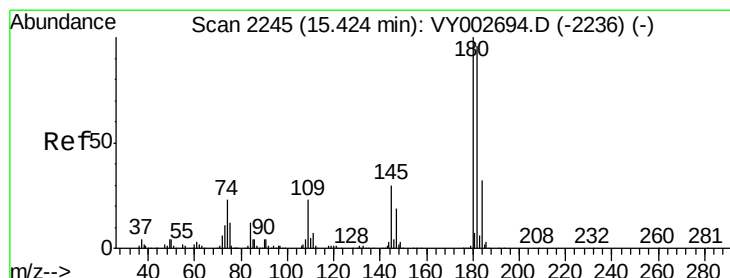
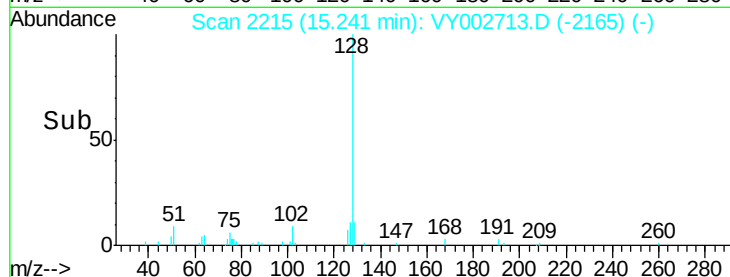
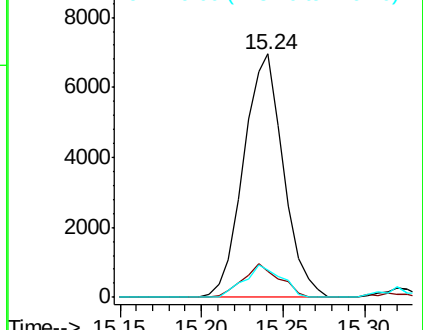
129 12.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 15.42 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VY002713.D

Acq: 19 May 2020 10:37

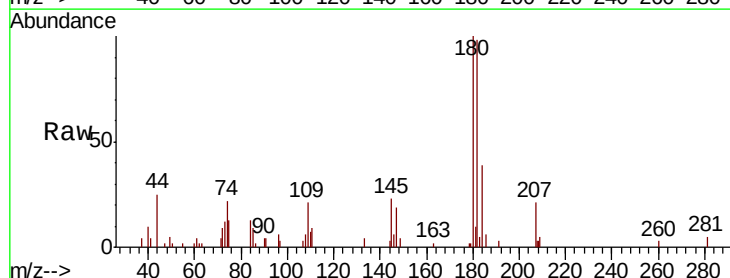
Tgt Ion:180 Resp: 5363

Ion Ratio Lower Upper

180 100

182 96.8 47.6 142.9

145 32.6 15.1 45.3



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

