

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY041420\
 Data File : VY002322.D
 Acq On : 14 Apr 2020 20:17
 Operator : SY/MD
 Sample : L2245-01
 Misc : 5.41G/5ML/MSVOA Y/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-5

Quant Time: Apr 15 05:38:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y040820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 08 15:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	134691	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.71	114	265368	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	218290	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	73649	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	73893	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
35) Dibromofluoromethane	7.75	113	76700	48.57	ug/l	0.01
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	10.19	98	321573	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	12.49	95	84216	38.62	ug/l	0.00
Spiked Amount			Recovery	=	77.24%	

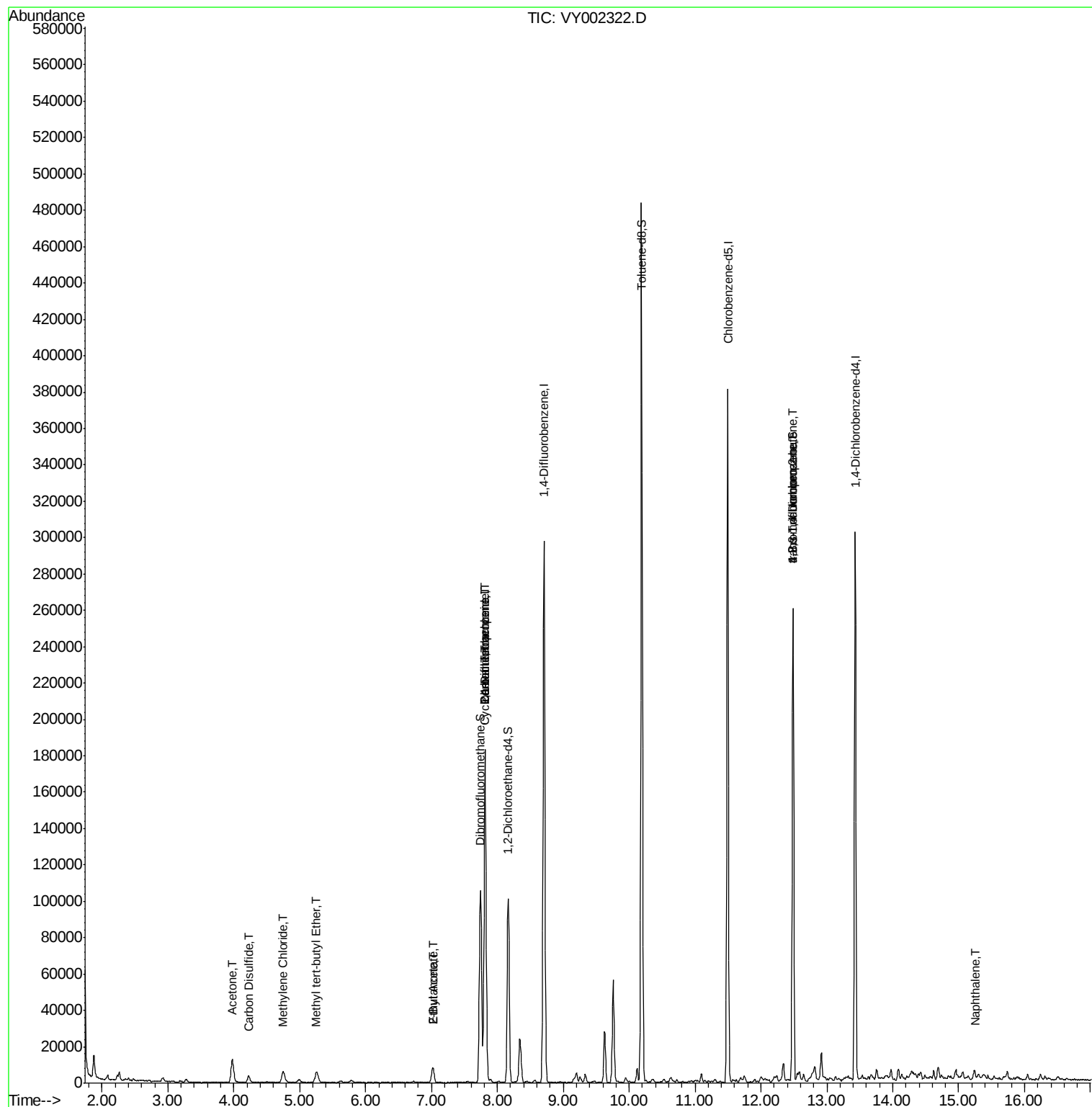
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.00	59	3247	Below Cal	#	89
16) Acetone	3.98	43	22636	57.377	ug/l	90
17) Carbon Disulfide	4.22	76	7008	1.297	ug/l	97
19) Methyl tert-butyl Ether	5.25	73	9013	2.108	ug/l	96
20) Methylene Chloride	4.75	84	4847	2.500	ug/l #	93
25) 2-Butanone	7.03	43	9850	15.777	ug/l	91
31) Cyclohexane	7.80	56	3531	1.119	ug/l #	17
36) 1,1-Dichloropropene	7.82	75	11093	4.244	ug/l #	50
37) Ethyl Acetate	7.03	43	9850	6.596	ug/l #	80
38) Carbon Tetrachloride	7.82	117	13510	6.043	ug/l #	15
76) 1,2,3-Trichloropropane	12.49	75	41651	48.702	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	41651	94.724	ug/l #	19
95) Naphthalene	15.24	128	4058	1.265	ug/l	99

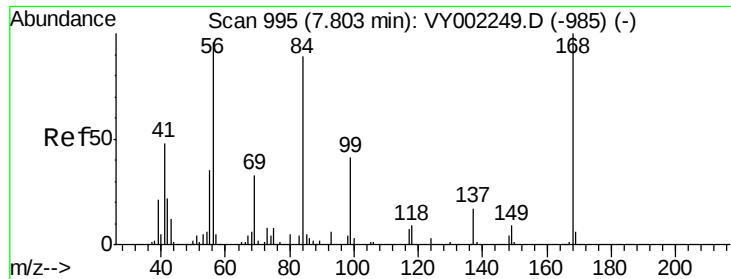
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampled :

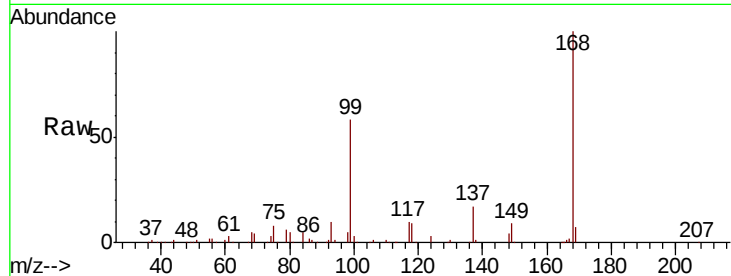
TP-5

Tot Ion:168 Resp: 134691

Ion Ratio Lower Upper

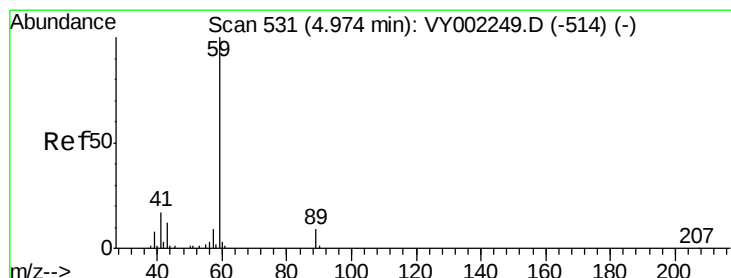
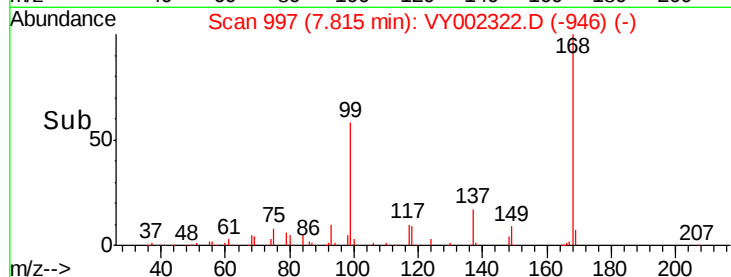
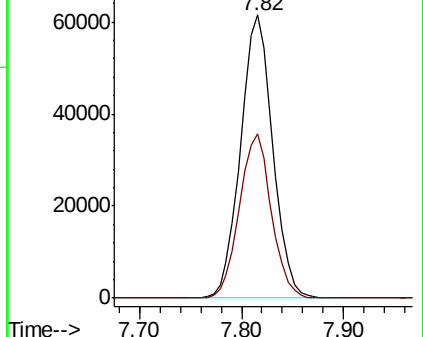
168 100

99 58.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VY002249.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002249.D (-985) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 535

Delta R.T. 0.02 min

Lab File: VY002322.D

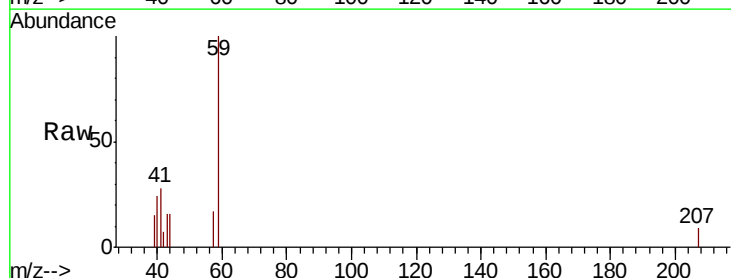
Acq: 14 Apr 2020 20:17

Tgt Ion: 59 Resp: 3247

Ion Ratio Lower Upper

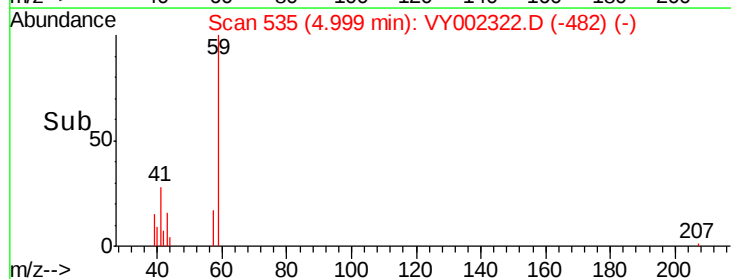
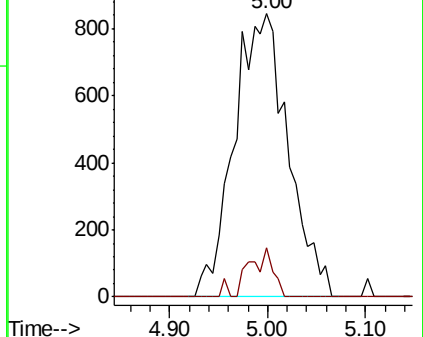
59 100

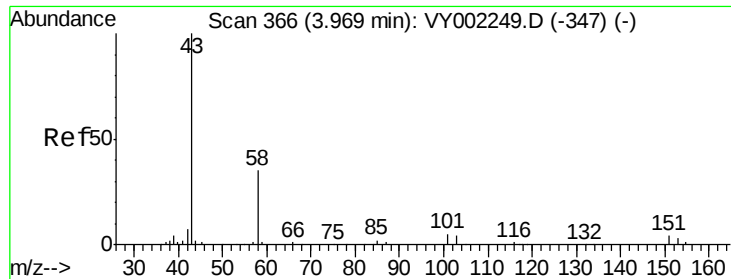
57 4.1 6.6 9.8#



Abundance Ion 59.00 (58.70 to 59.70): VY002249.D (-514) (-)

Ion 57.00 (56.70 to 57.70): VY002249.D (-514) (-)





#16

Acetone

Concen: 57.377 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.01 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

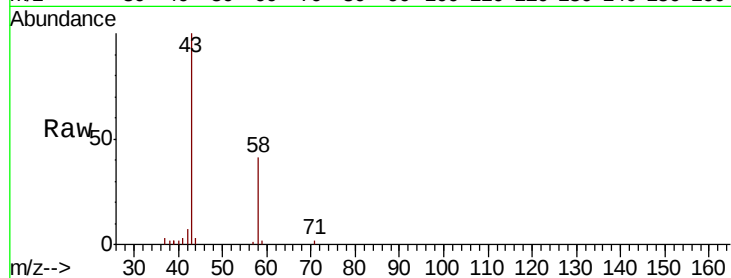
TP-5

Tot Ion: 43 Resp: 22636

Ion Ratio Lower Upper

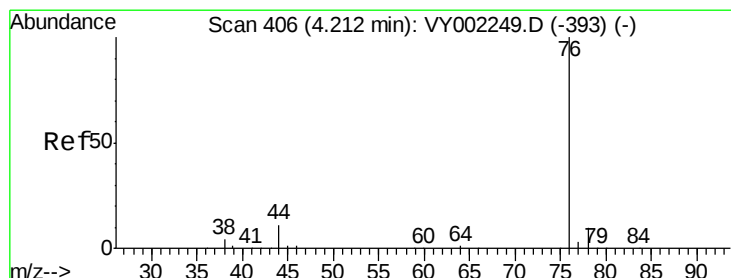
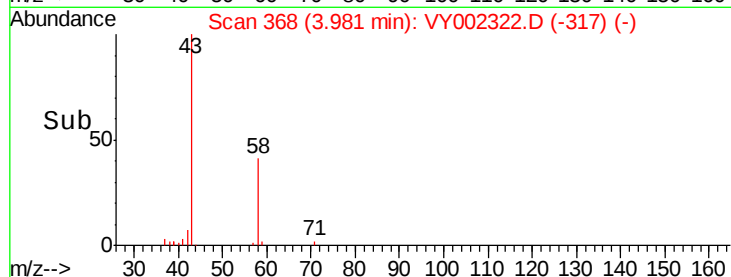
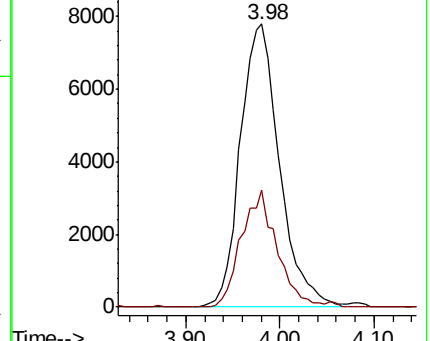
43 100

58 41.4 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#17

Carbon Disulfide

Concen: 1.297 ug/l

RT: 4.22 min Scan# 408

Delta R.T. 0.01 min

Lab File: VY002322.D

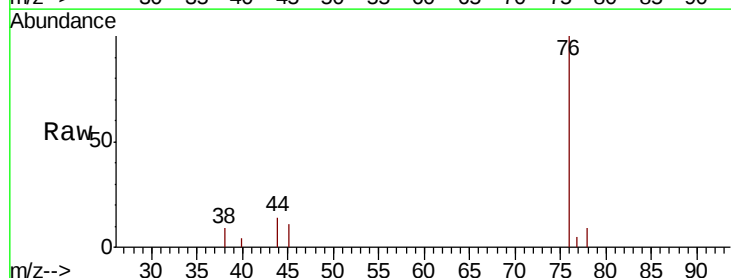
Acq: 14 Apr 2020 20:17

Tgt Ion: 76 Resp: 7008

Ion Ratio Lower Upper

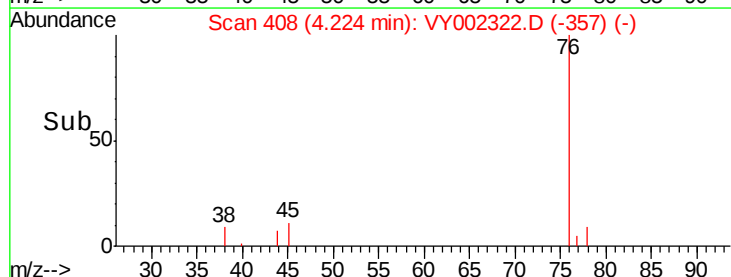
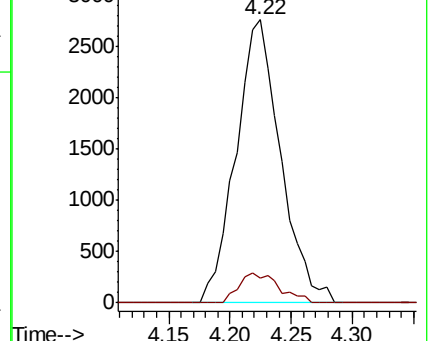
76 100

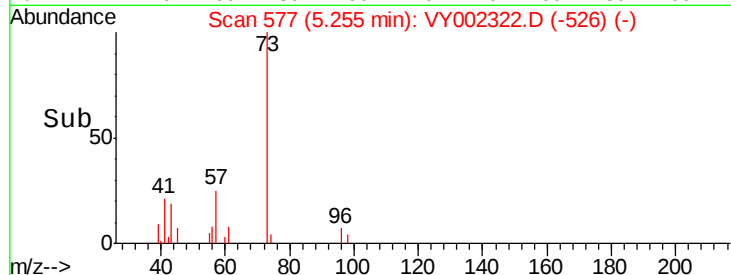
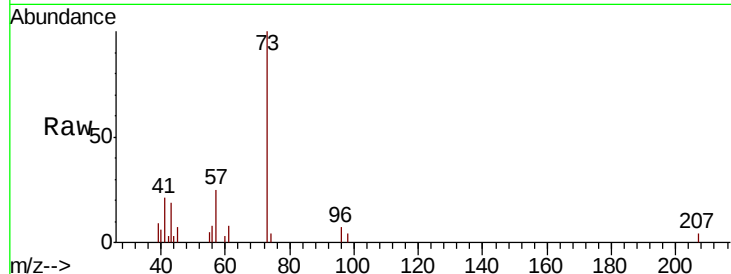
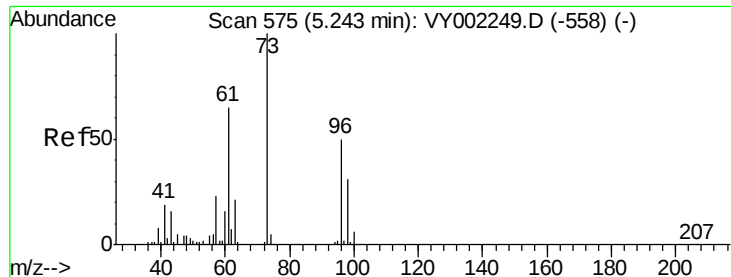
78 8.7 7.7 11.5



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

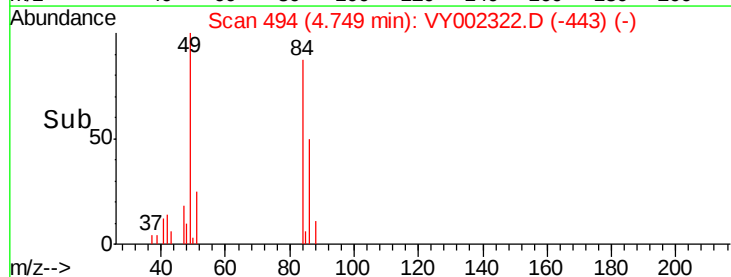
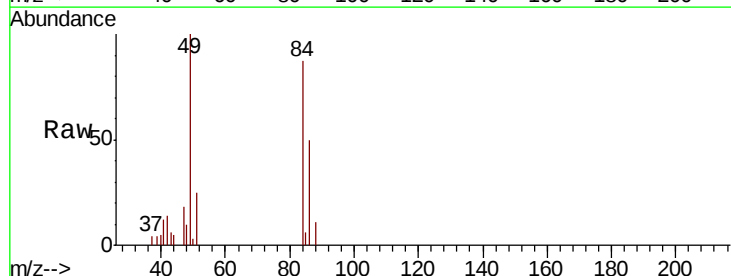
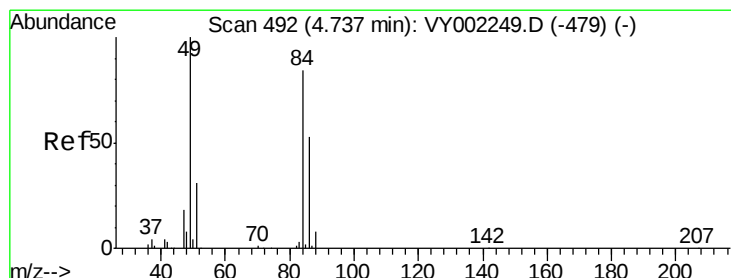
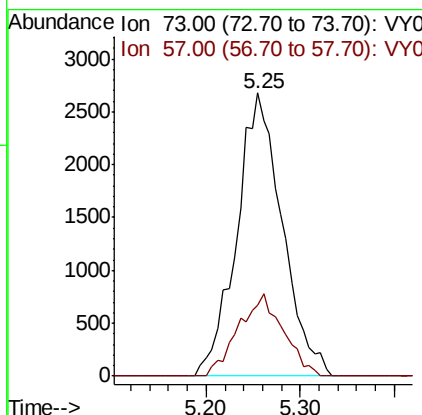




#19
Methyl tert-butyl Ether
Concen: 2.108 ug/l
RT: 5.25 min Scan# 577
Delta R.T. 0.01 min
Lab File: VY002322.D
Acq: 14 Apr 2020 20:17

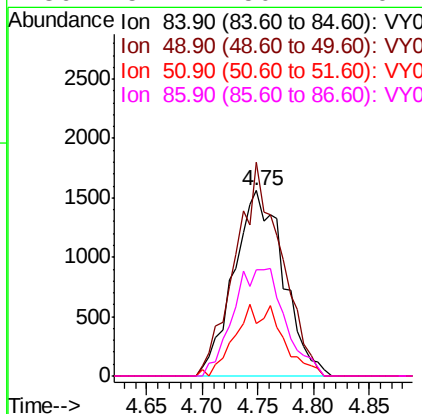
Tot Ion: 73 Resp: 9013
Ion Ratio Lower Upper
73 100
57 25.2 18.7 28.1

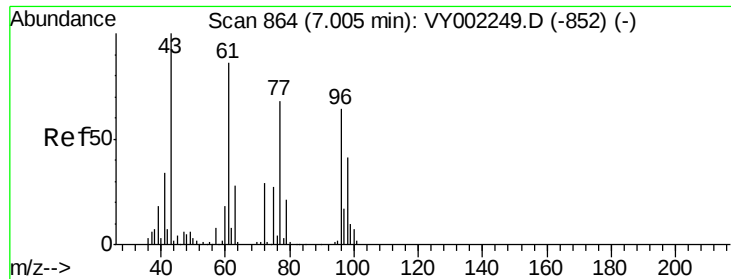
Instrument :
MSVOA_Y
ClientSampled :
TP-5



#20
Methylene Chloride
Concen: 2.500 ug/l
RT: 4.75 min Scan# 494
Delta R.T. 0.01 min
Lab File: VY002322.D
Acq: 14 Apr 2020 20:17

Tgt Ion: 84 Resp: 4847
Ion Ratio Lower Upper
84 100
49 115.2 95.5 143.3
51 28.5 29.5 44.3#
86 57.1 50.7 76.1





#25

2-Butanone

Concen: 15.777 ug/l

RT: 7.03 min Scan# 868

Delta R.T. 0.02 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

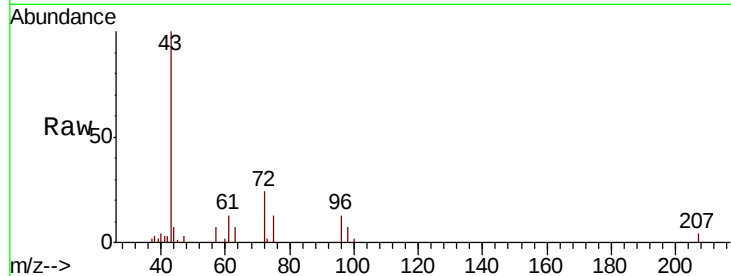
TP-5

Tot Ion: 43 Resp: 9850

Ion Ratio Lower Upper

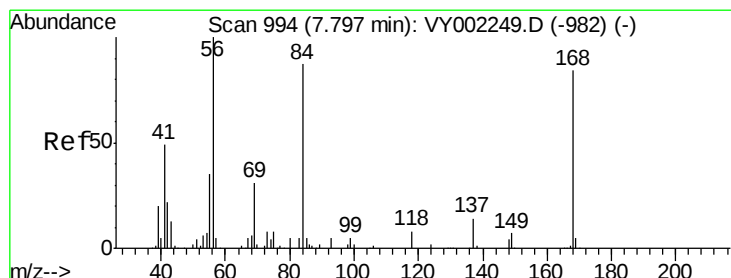
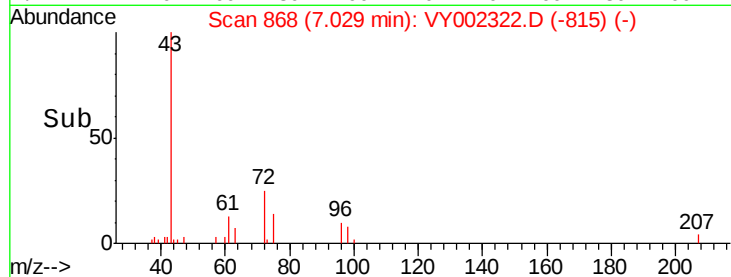
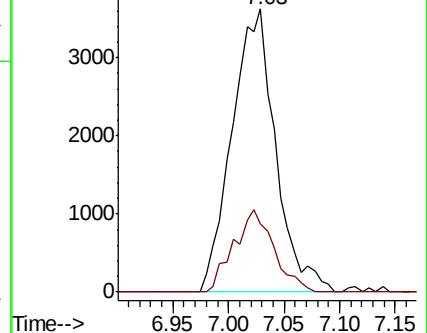
43 100

72 24.3 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#31

Cyclohexane

Concen: 1.119 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

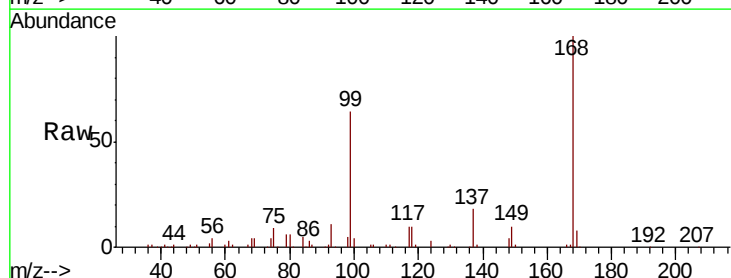
Tgt Ion: 56 Resp: 3531

Ion Ratio Lower Upper

56 100

69 121.5 25.0 37.6#

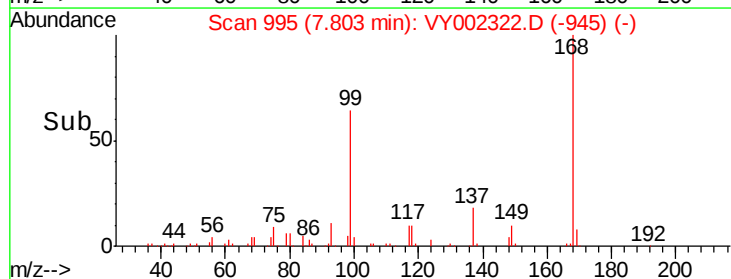
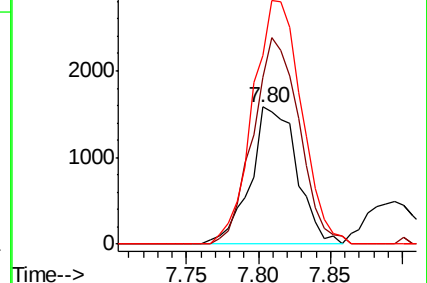
84 137.3 69.7 104.5#

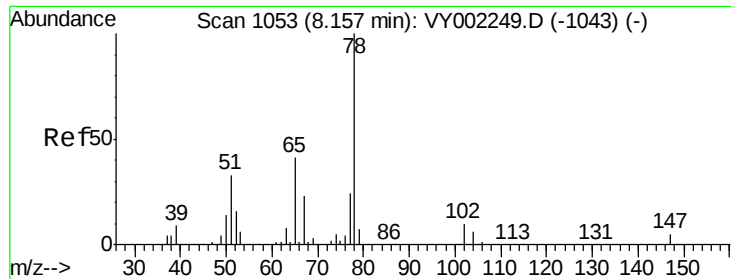


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 49.332 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

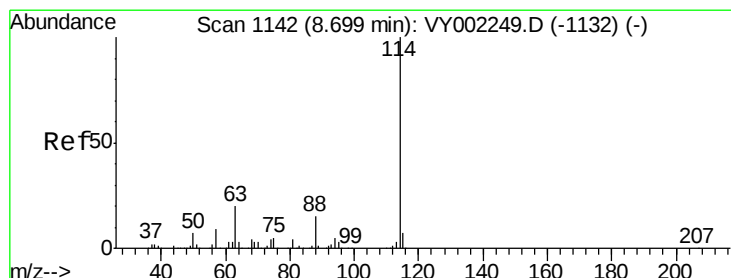
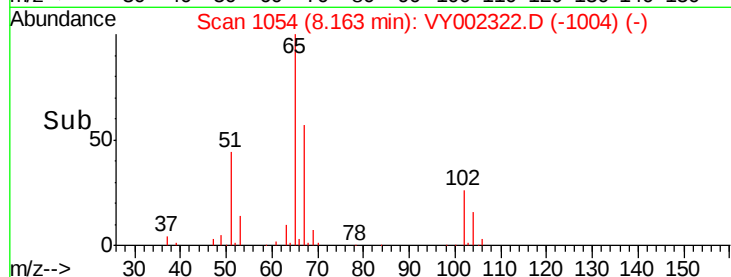
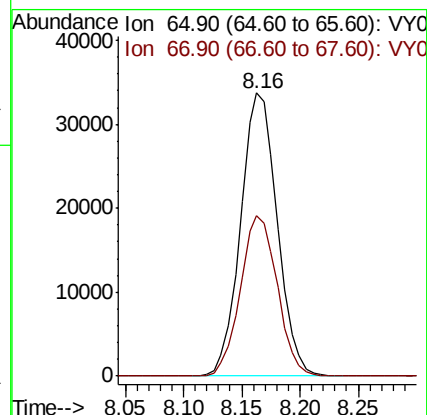
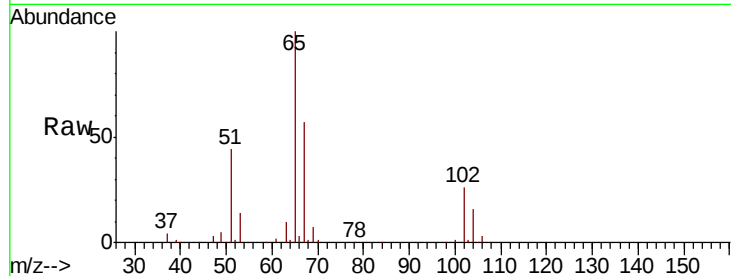
TP-5

Tot Ion: 65 Resp: 73893

Ion Ratio Lower Upper

65 100

67 57.2 0.0 114.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

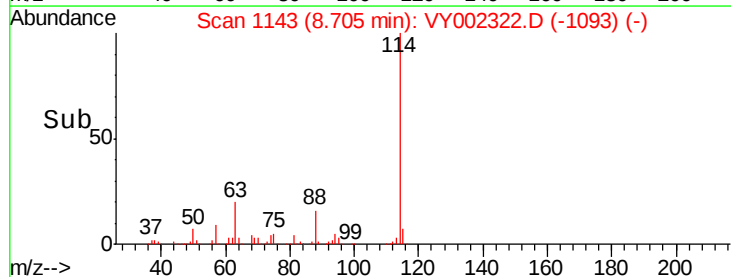
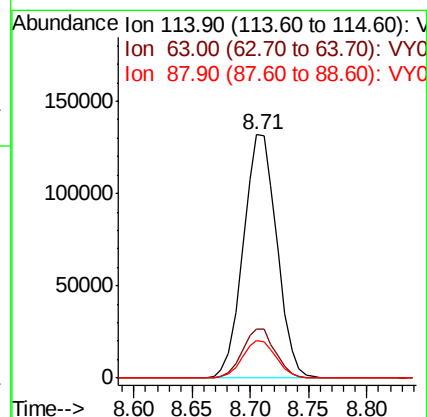
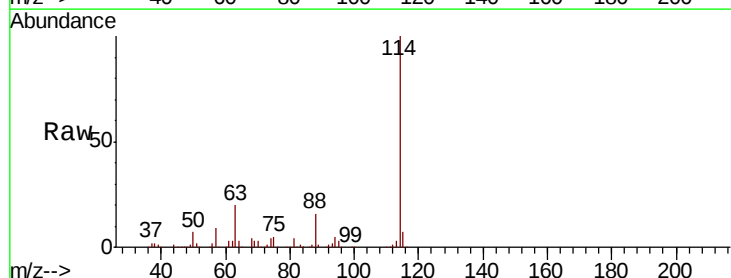
Tgt Ion: 114 Resp: 265368

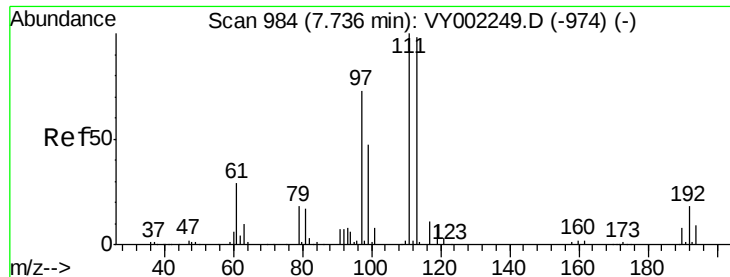
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.0

88 15.6 0.0 31.0

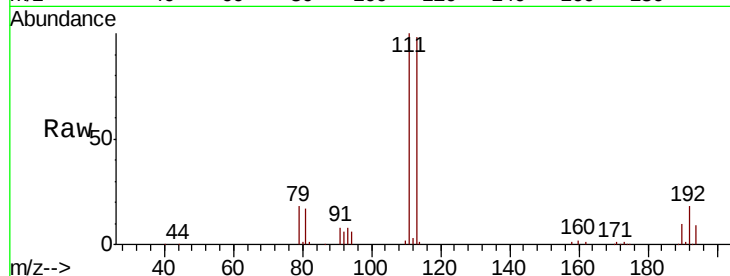




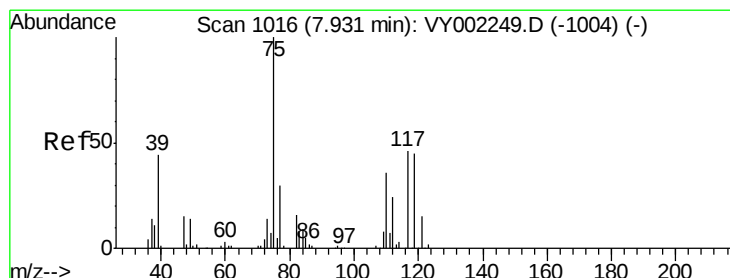
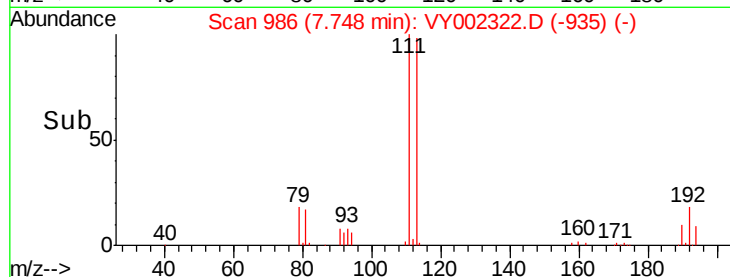
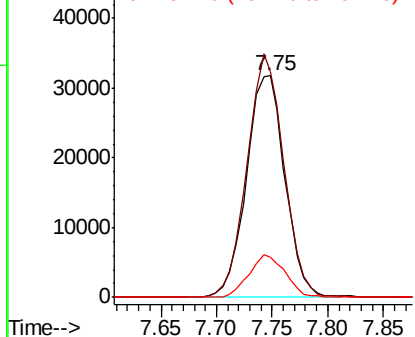
#35
 Dibromofluoromethane
 Concen: 48.574 ug/l
 RT: 7.75 min Scan# 986
 Delta R.T. 0.01 min
 Lab File: VY002322.D
 Acq: 14 Apr 2020 20:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-5

Tot Ion:113 Resp: 76700
 Ion Ratio Lower Upper
 113 100
 111 104.8 83.5 125.3
 192 18.2 14.7 22.1

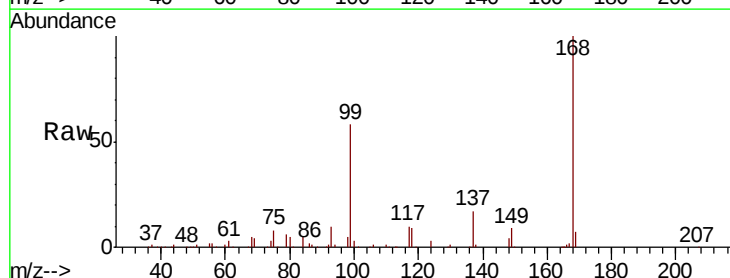


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

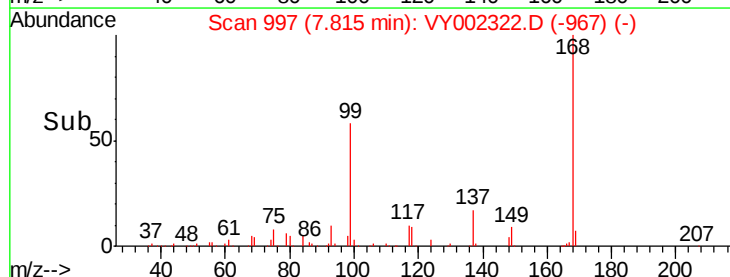
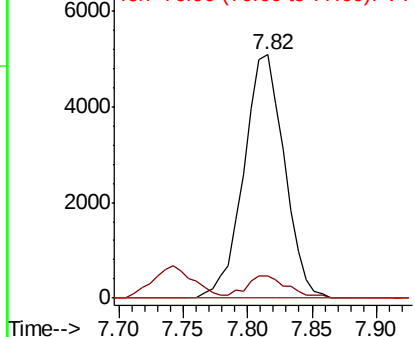


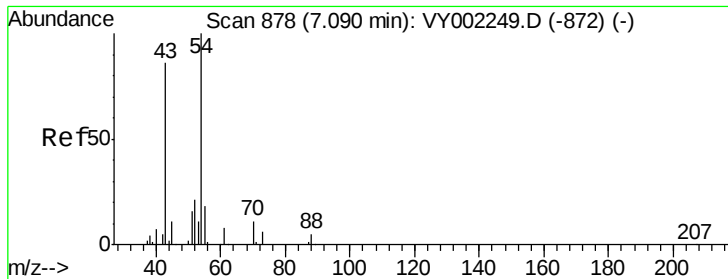
#36
 1,1-Dichloropropene
 Concen: 4.244 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.12 min
 Lab File: VY002322.D
 Acq: 14 Apr 2020 20:17

Tgt Ion: 75 Resp: 11093
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.8 53.3#
 77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VY0





#37

Ethyl Acetate

Concen: 6.596 ug/l

RT: 7.03 min Scan# 868

Delta R.T. -0.06 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampled :

TP-5

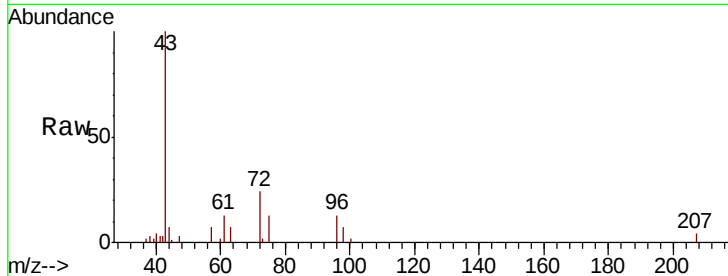
Tot Ion: 43 Resp: 9850

Ion Ratio Lower Upper

43 100

61 20.1 11.8 17.6#

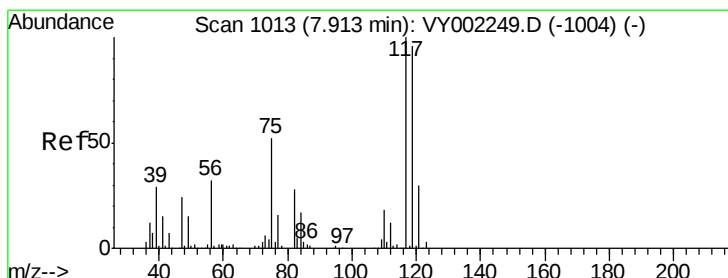
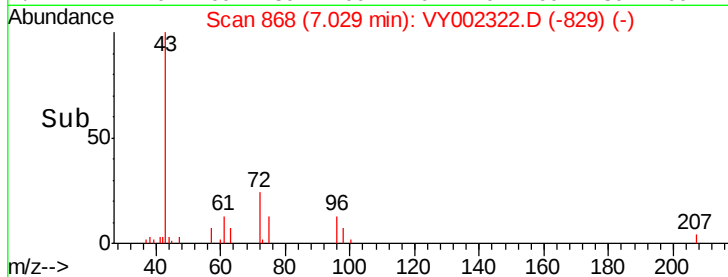
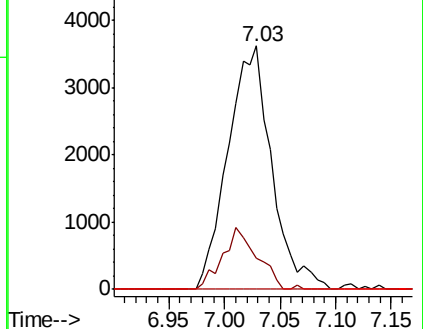
70 0.0 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 70.00 (69.70 to 70.70): VY0



#38

Carbon Tetrachloride

Concen: 6.043 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.10 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

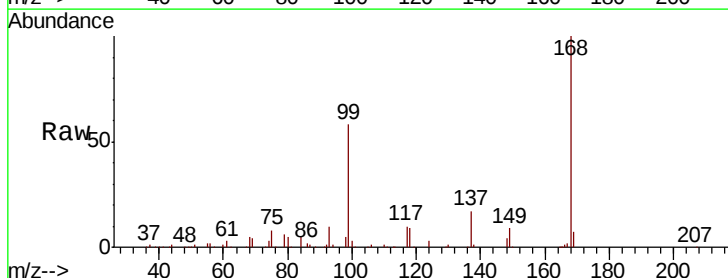
Tgt Ion: 117 Resp: 13510

Ion Ratio Lower Upper

117 100

119 4.8 77.1 115.7#

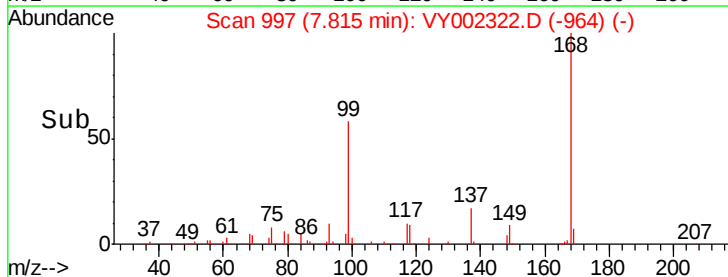
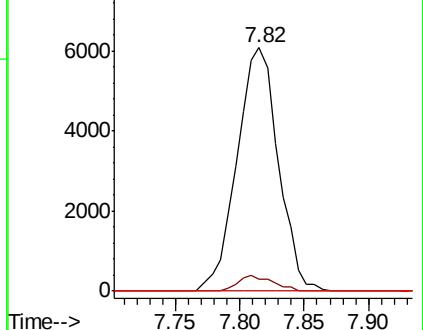
121 0.0 23.9 35.9#

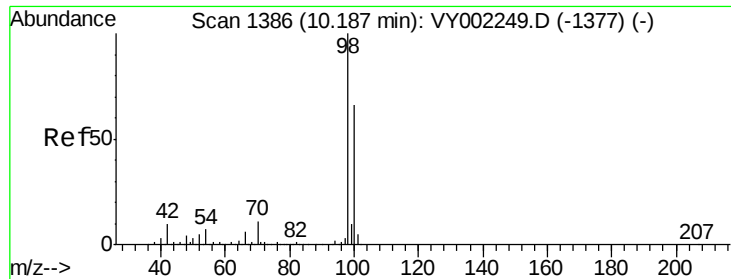


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.656 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.00 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

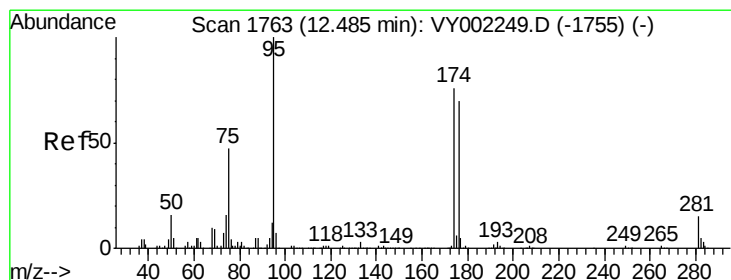
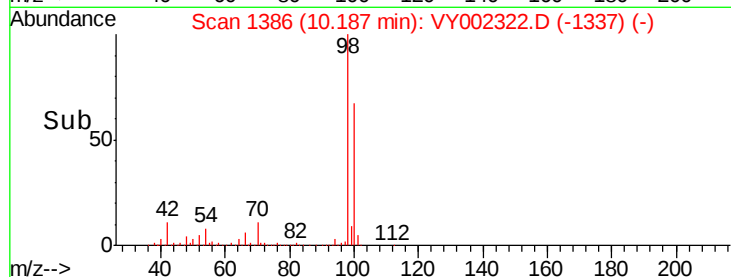
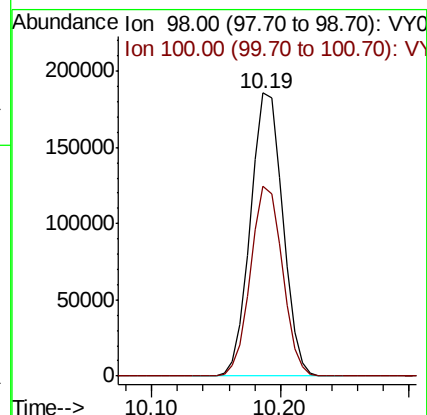
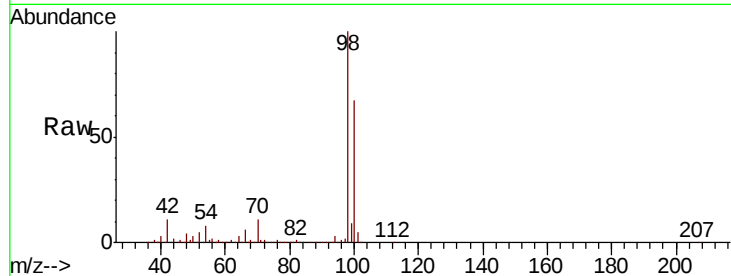
TP-5

Tot Ion: 98 Resp: 321573

Ion Ratio Lower Upper

98 100

100 66.0 52.6 78.8



#62

4-Bromofluorobenzene

Concen: 38.623 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

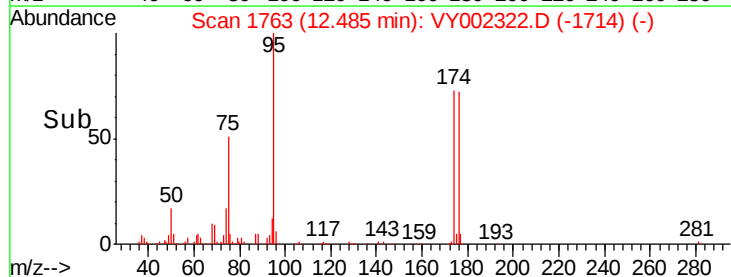
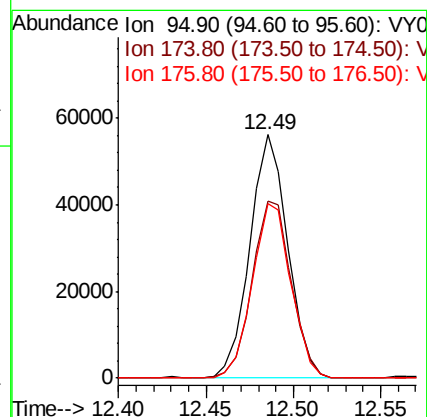
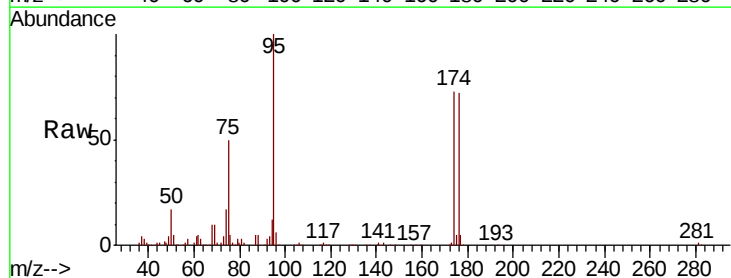
Tgt Ion: 95 Resp: 84216

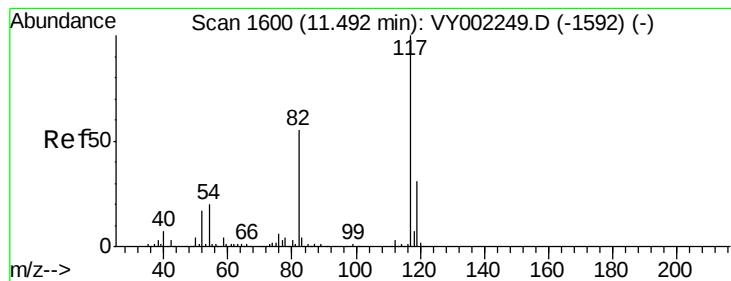
Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.6

176 73.5 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.50 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

TP-5

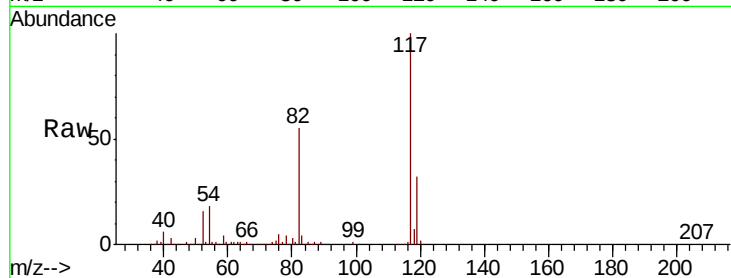
Tot Ion:117 Resp: 218290

Ion Ratio Lower Upper

117 100

82 54.8 44.2 66.4

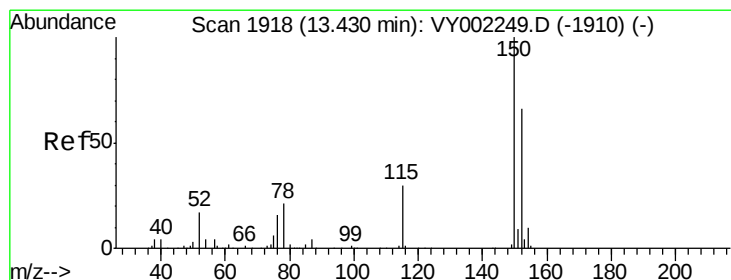
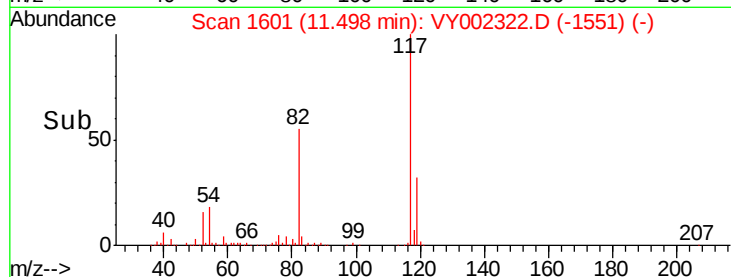
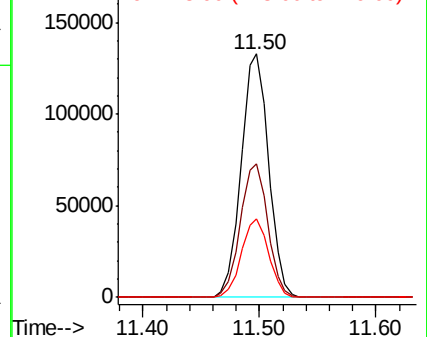
119 32.1 25.1 37.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.00 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

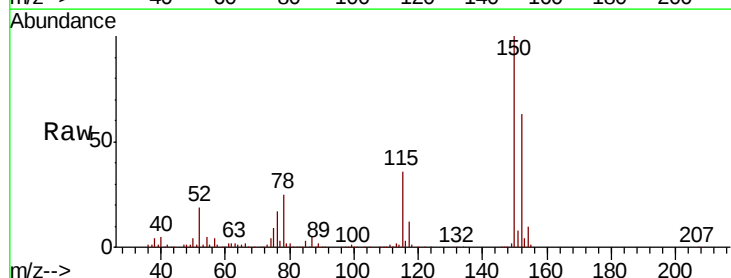
Tgt Ion:152 Resp: 73649

Ion Ratio Lower Upper

152 100

115 58.7 30.7 92.1

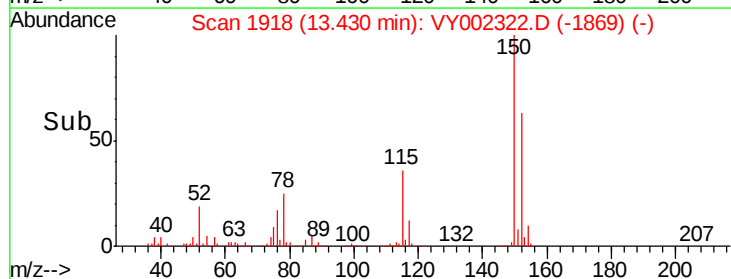
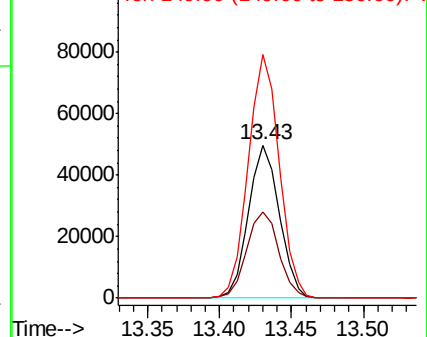
150 159.8 0.0 350.6

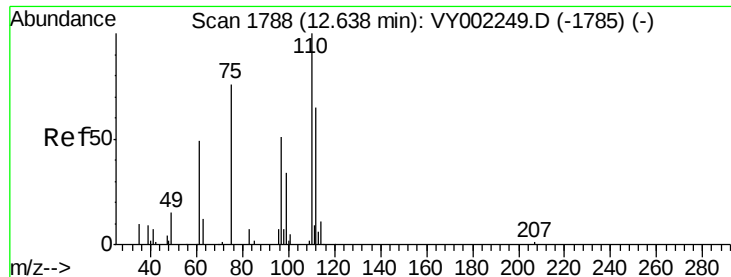


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 48.702 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

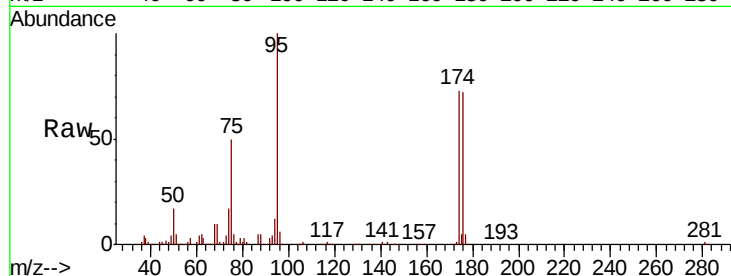
TP-5

Tot Ion: 75 Resp: 41651

Ion Ratio Lower Upper

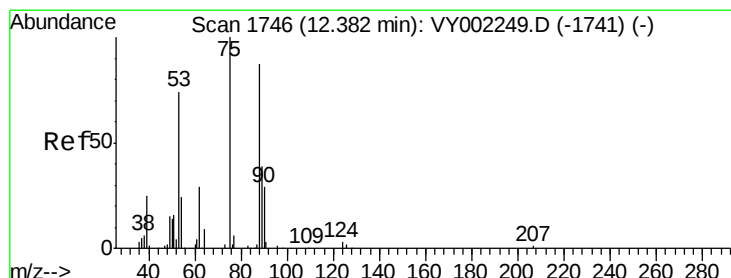
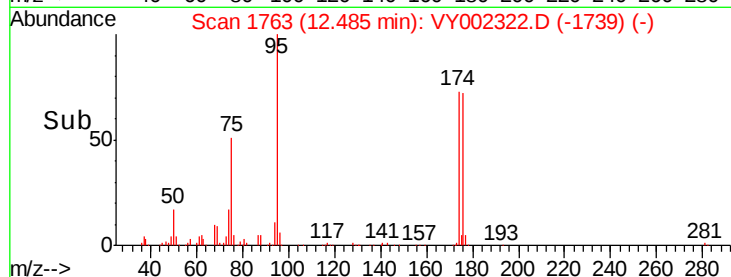
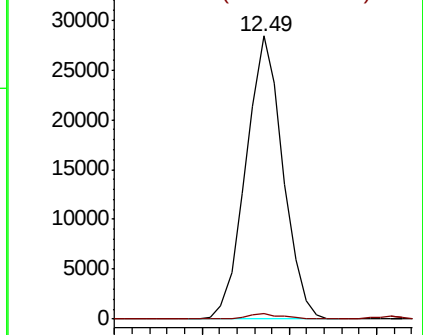
75 100

77 1.8 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: 94.724 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002322.D

Acq: 14 Apr 2020 20:17

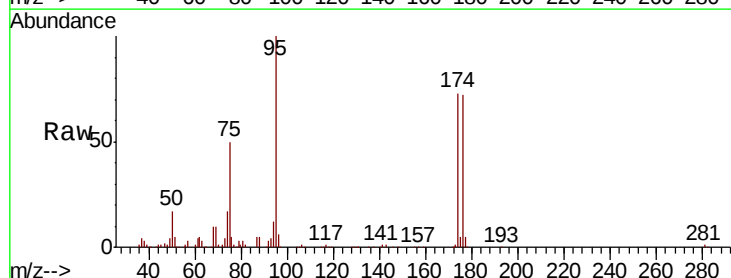
Tgt Ion: 75 Resp: 41651

Ion Ratio Lower Upper

75 100

53 0.1 59.8 89.8#

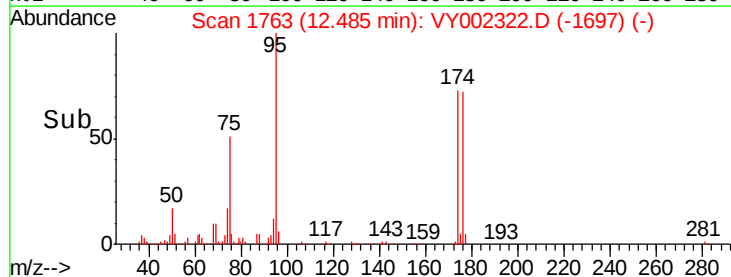
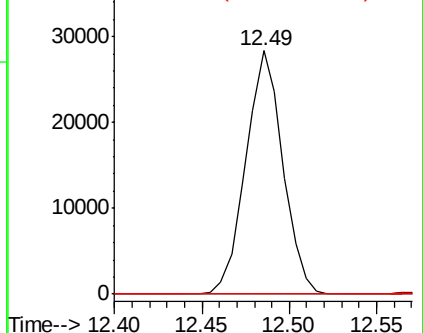
89 0.0 37.0 55.6#

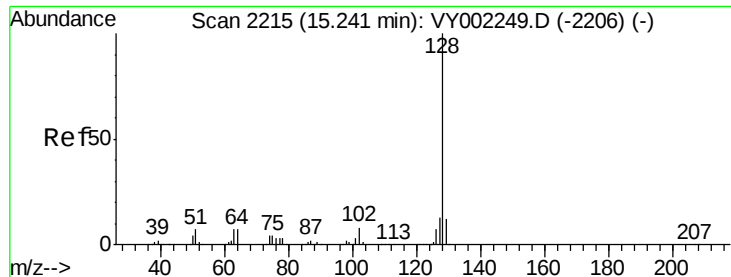


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#95
 Naphthalene
 Concen: 1.265 ug/l
 RT: 15.24 min Scan# 2215
 Delta R.T. -0.00 min
 Lab File: VY002322.D
 Acq: 14 Apr 2020 20:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-5

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.1	15.1
129	11.3	8.7	13.1

