

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040920\
 Data File : VY002269.D
 Acq On : 09 Apr 2020 12:44
 Operator : SY/MD
 Sample : L2205-17
 Misc : 8.57G/5ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-02-04082020-C

Quant Time: Apr 10 04:28:21 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	7.81	168	145783	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	291334	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	249423	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	77619	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	90005	55.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.04%	
35) Dibromofluoromethane	7.74	113	86586	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	
50) Toluene-d8	10.19	98	345956	47.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.36%	
62) 4-Bromofluorobenzene	12.49	95	101683	42.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.96%	

Target Compounds

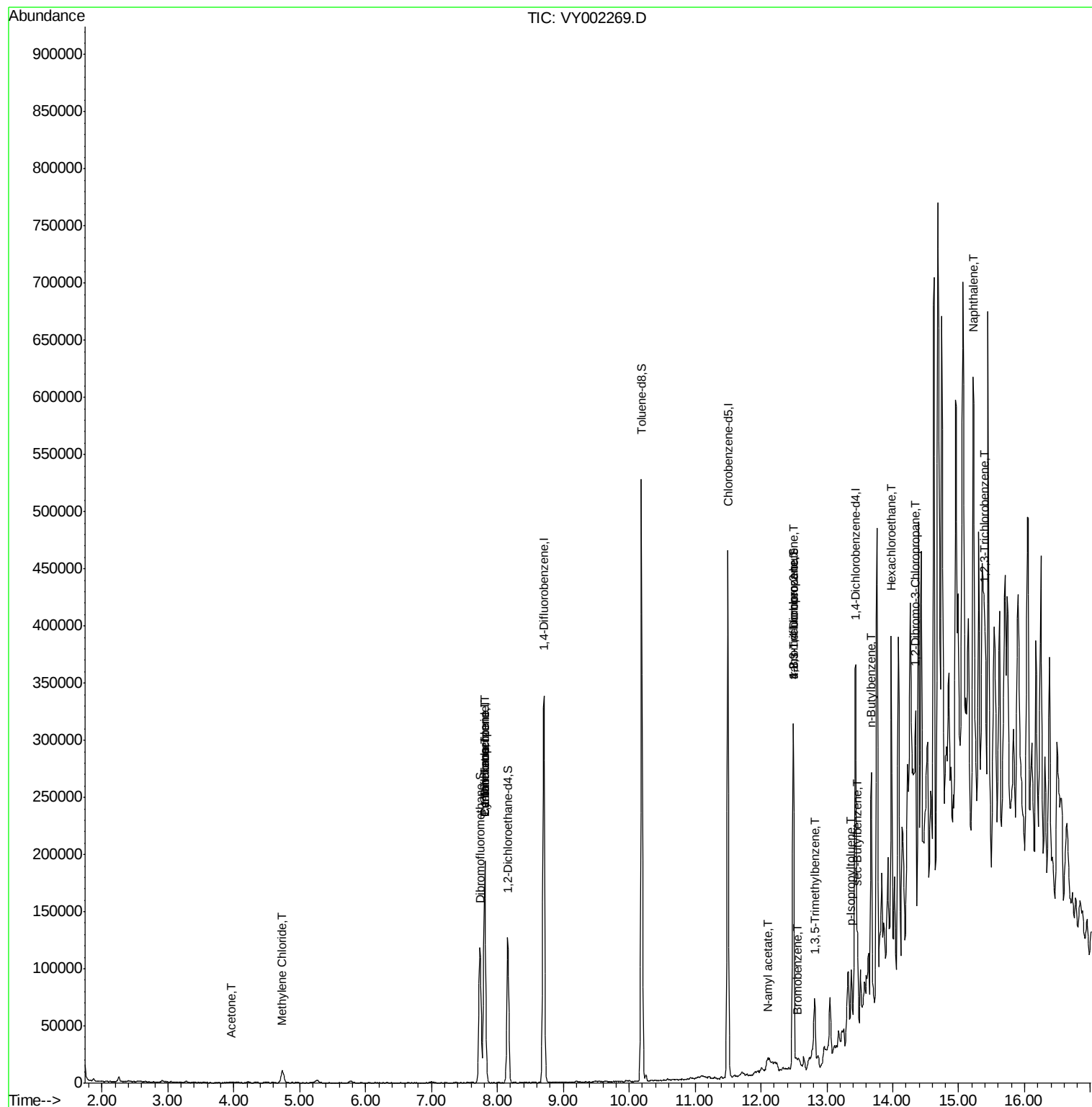
						Qvalue
11) Tert butyl alcohol	4.97	59	78	Below Cal	#	77
16) Acetone	3.96	43	555	1.300	ug/l #	75
20) Methylene Chloride	4.74	84	8129	3.873	ug/l	92
31) Cyclohexane	7.80	56	3594	1.052	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	12274	4.277	ug/l #	49
38) Carbon Tetrachloride	7.80	117	14850	6.050	ug/l #	16
74) N-ethyl acetate	12.11	43	4215	2.435	ug/l #	69
76) 1,2,3-Trichloropropane	12.49	75	49341	54.743	ug/l #	100
77) Bromobenzene	12.55	156	3242	2.417	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.82	105	8318	1.649	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.49	75	49341	106.474	ug/l #	19
85) sec-Butylbenzene	13.47	105	47645	7.571	ug/l #	57
86) p-Isopropyltoluene	13.38	119	9911	1.830	ug/l	100
89) n-Butylbenzene	13.67	91	22368	4.029	ug/l #	1
90) Hexachloroethane	13.98	117	11236	10.887	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.35	75	624	3.497	ug/l #	1
95) Naphthalene	15.22	128	7590	2.245	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.41	180	2233	1.665	ug/l #	1

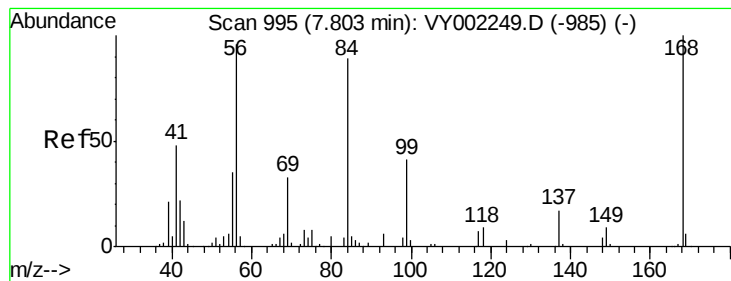
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.01 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

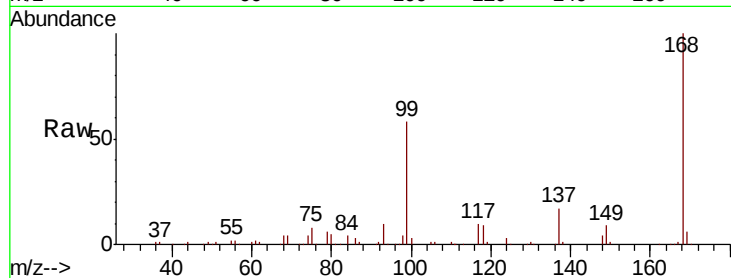
JC-02-04082020-C

Tot Ion:168 Resp: 145783

Ion Ratio Lower Upper

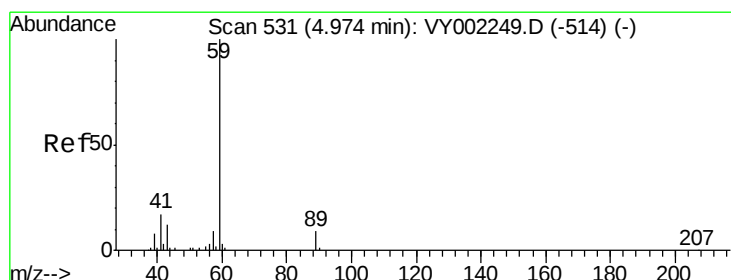
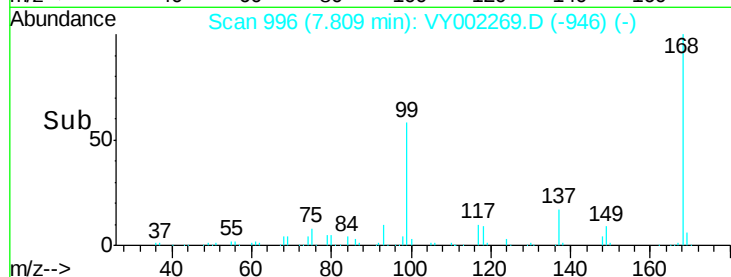
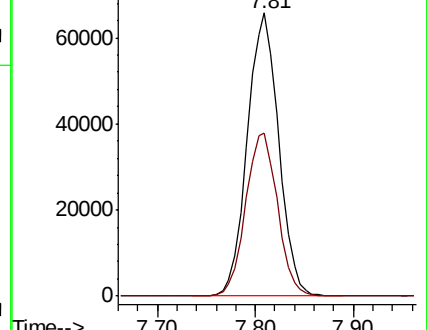
168 100

99 57.7 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: 4.97 min Scan# 530

Delta R.T. -0.01 min

Lab File: VY002269.D

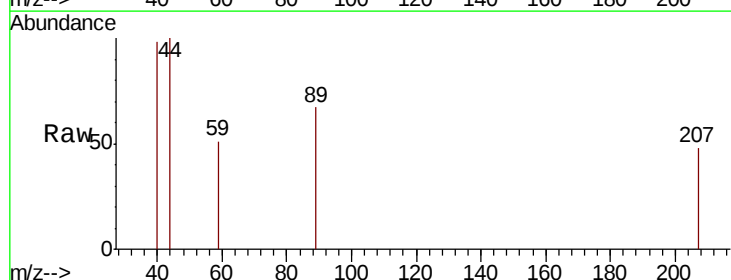
Acq: 09 Apr 2020 12:44

Tgt Ion: 59 Resp: 78

Ion Ratio Lower Upper

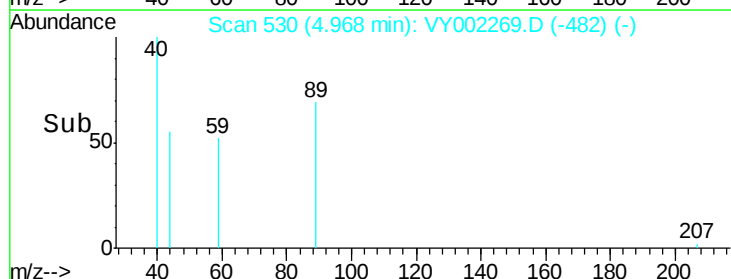
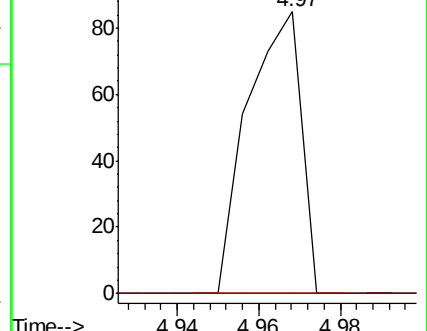
59 100

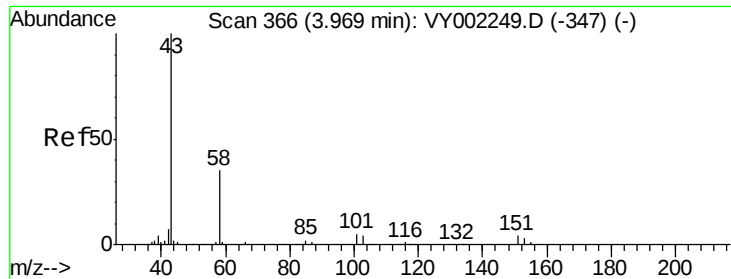
57 0.0 6.6 9.8#



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: 1.300 ug/l

RT: 3.96 min Scan# 365

Delta R.T. -0.01 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

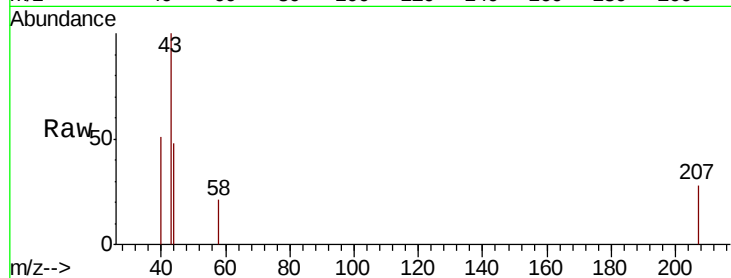
JC-02-04082020-C

Tot Ion: 43 Resp: 555

Ion Ratio Lower Upper

43 100

58 21.1 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

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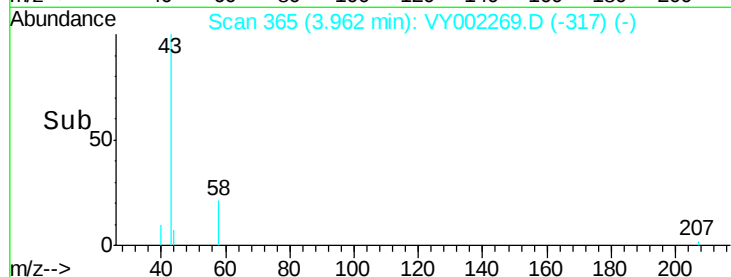
3.96

3.96

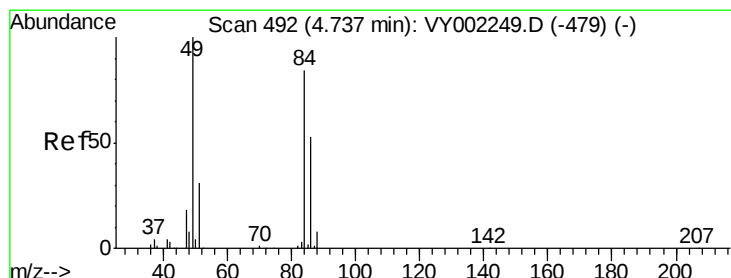
3.96

3.96

3.96



Time-->



#20

Methylene Chloride

Concen: 3.873 ug/l

RT: 4.74 min Scan# 492

Delta R.T. -0.00 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Tgt Ion: 84 Resp: 8129

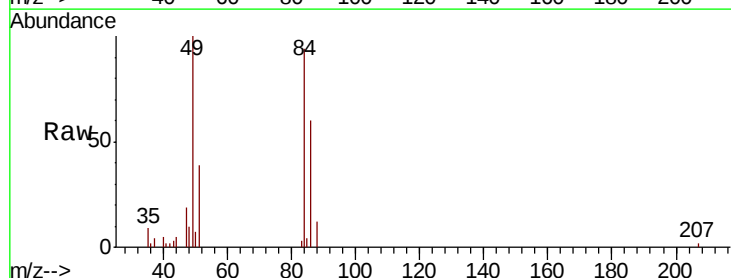
Ion Ratio Lower Upper

84 100

49 106.6 95.5 143.3

51 41.2 29.5 44.3

86 64.5 50.7 76.1



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

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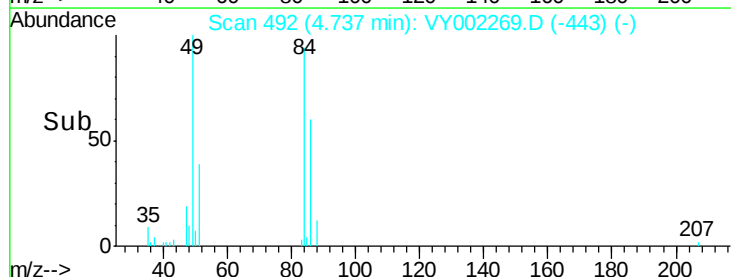
4.74

4.74

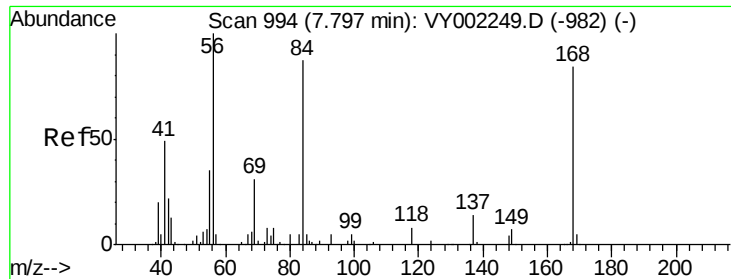
4.74

4.74

4.74



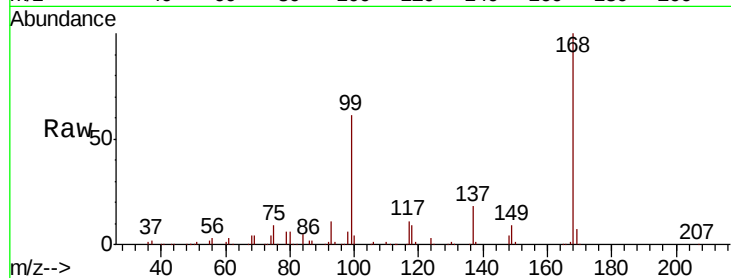
Time-->



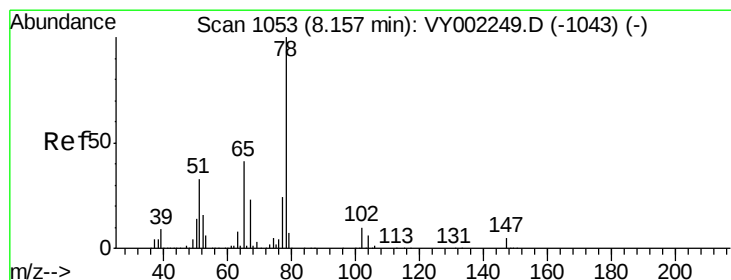
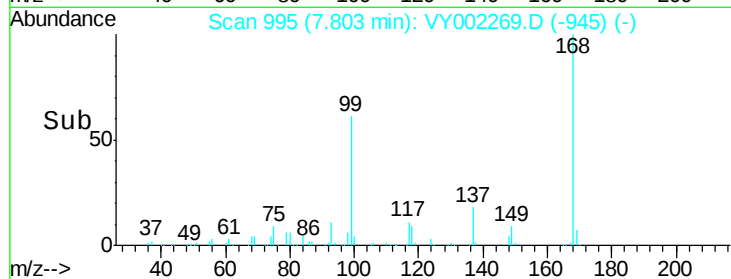
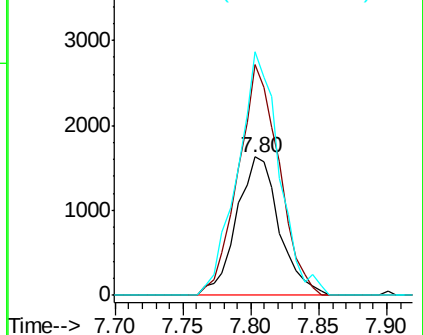
#31
Cyclohexane
Concen: 1.052 ug/l
RT: 7.80 min Scan# 995
Delta R.T. 0.01 min
Lab File: VY002269.D
Acq: 09 Apr 2020 12:44

Instrument :
MSVOA_Y
ClientSampleId :
JC-02-04082020-C

Tot Ion: 56 Resp: 3594
Ion Ratio Lower Upper
56 100
69 166.3 25.0 37.6#
84 175.7 69.7 104.5#

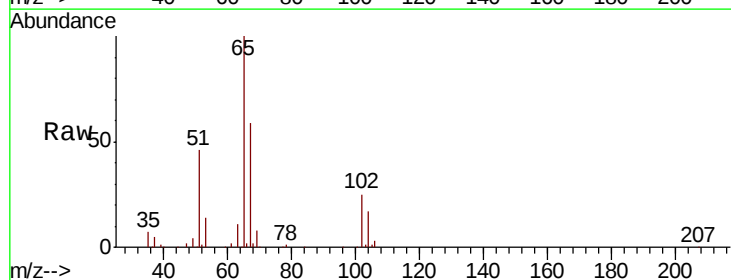


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

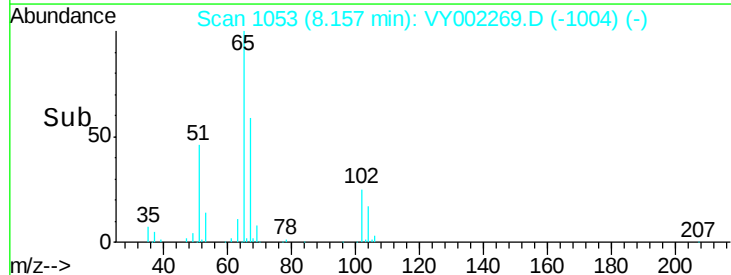
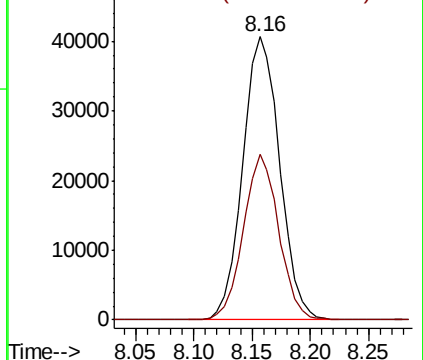


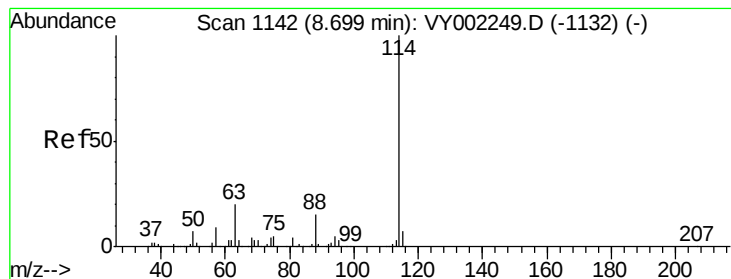
#33
1,2-Dichloroethane-d4
Concen: 55.517 ug/l
RT: 8.16 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VY002269.D
Acq: 09 Apr 2020 12:44

Tgt Ion: 65 Resp: 90005
Ion Ratio Lower Upper
65 100
67 56.0 0.0 114.0



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: 8.71 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

JC-02-04082020-C

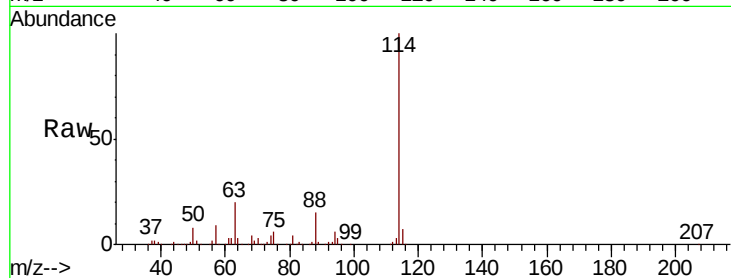
Tot Ion:114 Resp: 291334

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

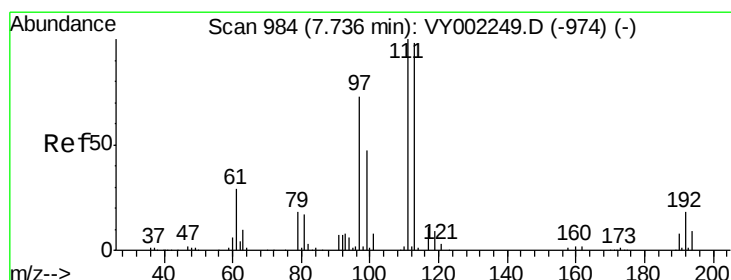
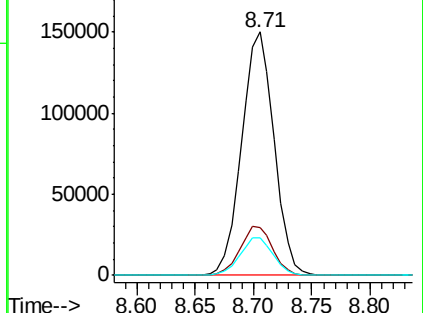
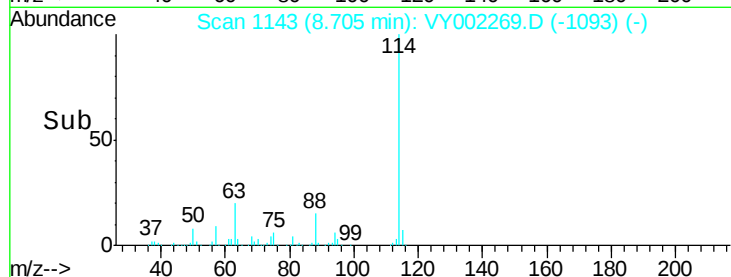
88 15.3 0.0 31.0



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: 49.948 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.00 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

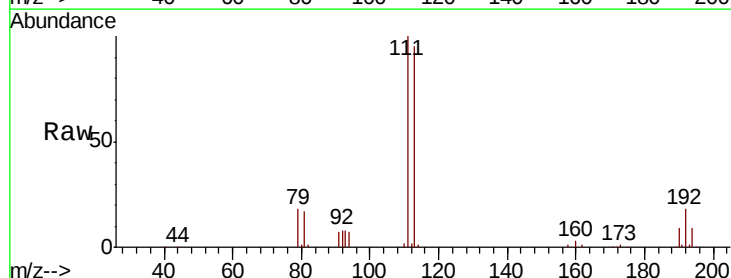
Tgt Ion:113 Resp: 86586

Ion Ratio Lower Upper

113 100

111 103.3 83.5 125.3

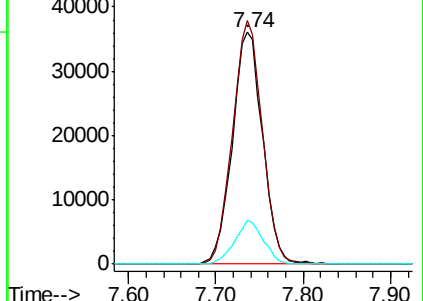
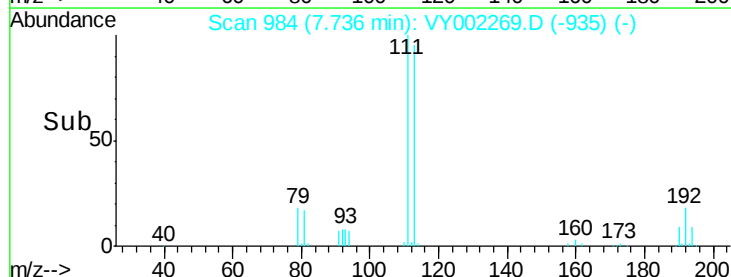
192 17.9 14.7 22.1

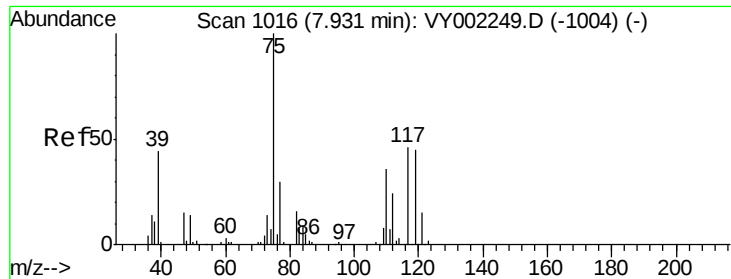


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

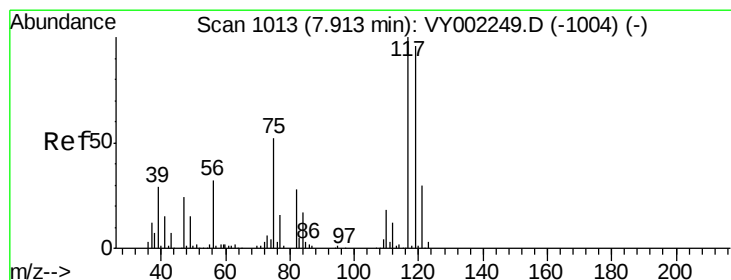
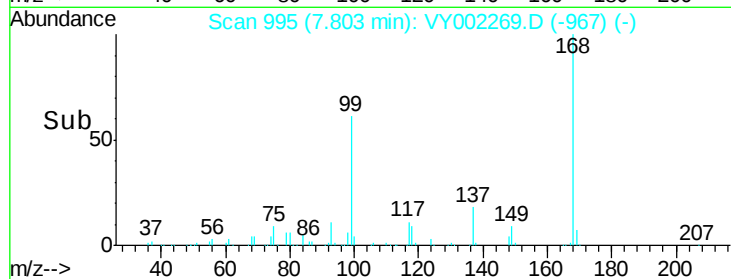
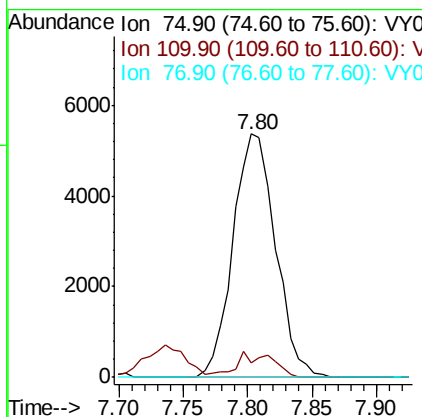
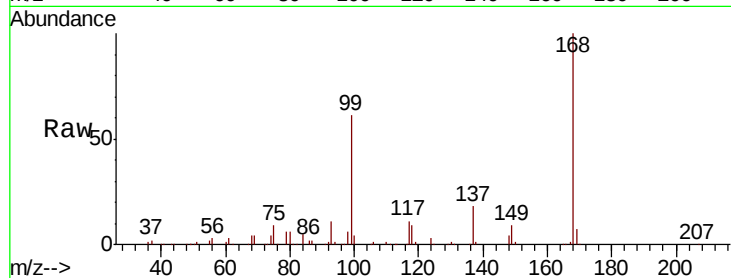




#36
 1,1-Dichloropropene
 Concen: 4.277 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY002269.D
 Acq: 09 Apr 2020 12:44

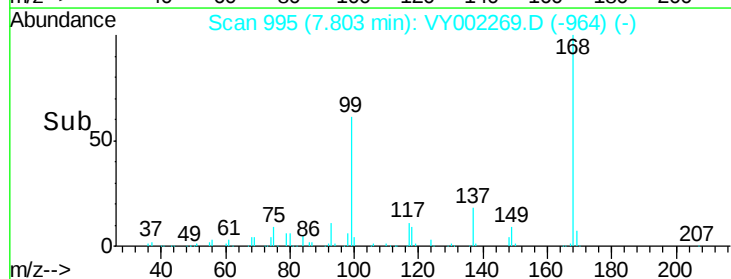
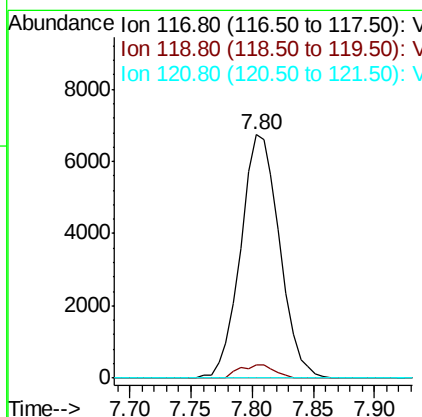
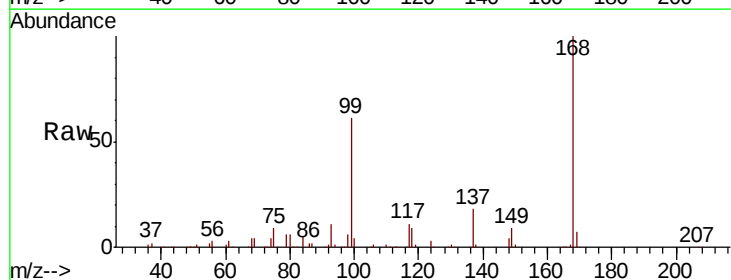
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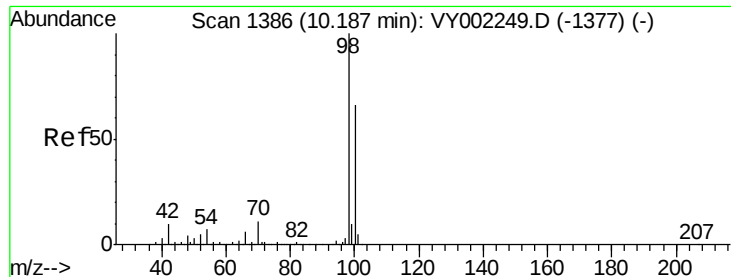
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.8	53.3#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 6.050 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.11 min
 Lab File: VY002269.D
 Acq: 09 Apr 2020 12:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	77.1	115.7#
121	0.0	23.9	35.9#





#50

Toluene-d8

Concen: 47.680 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.00 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

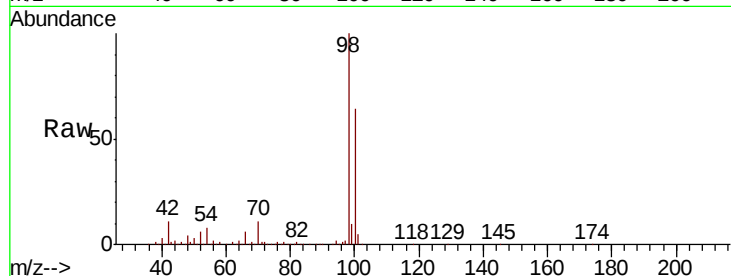
JC-02-04082020-C

Tot Ion: 98 Resp: 345956

Ion Ratio Lower Upper

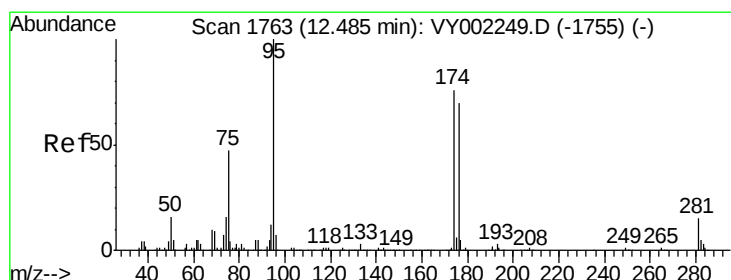
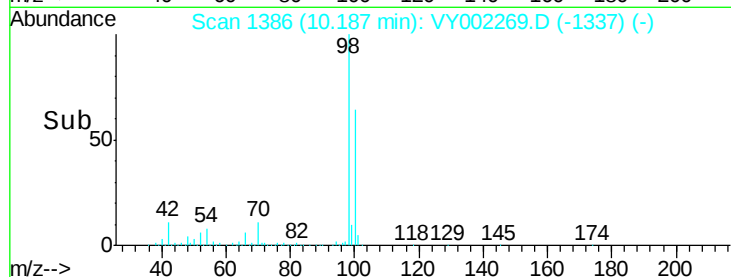
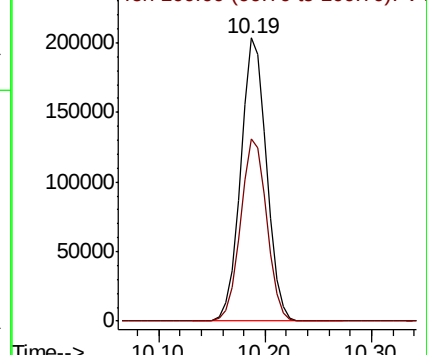
98 100

100 65.2 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#62

4-Bromofluorobenzene

Concen: 42.478 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

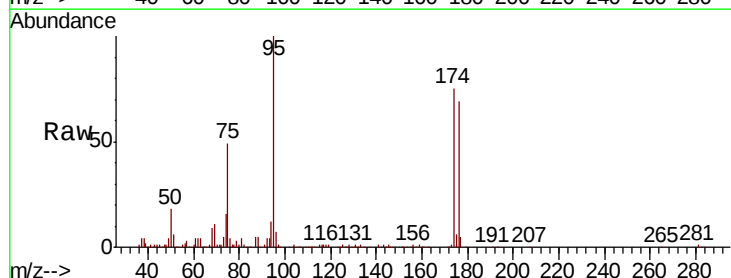
Tgt Ion: 95 Resp: 101683

Ion Ratio Lower Upper

95 100

174 72.2 0.0 150.6

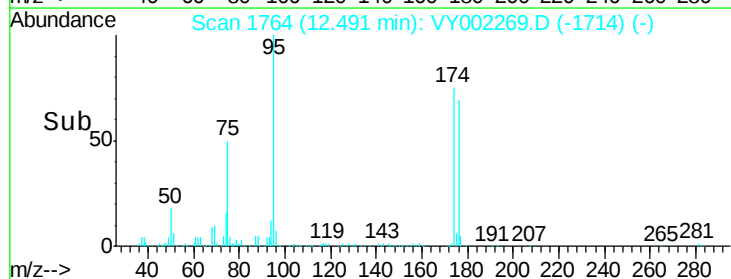
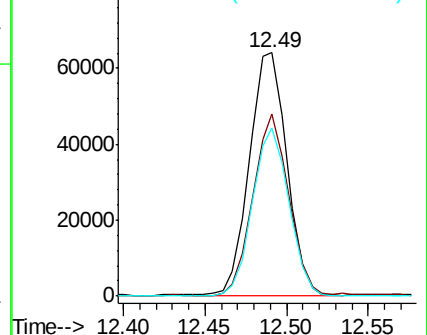
176 67.6 0.0 141.4

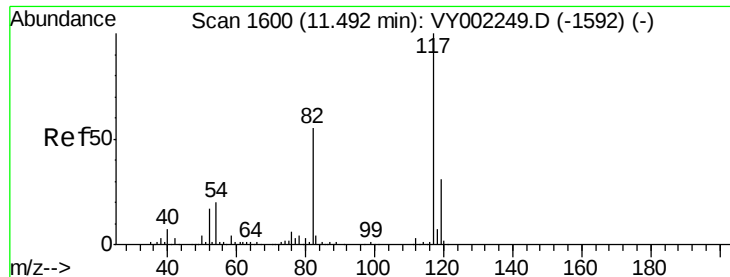


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

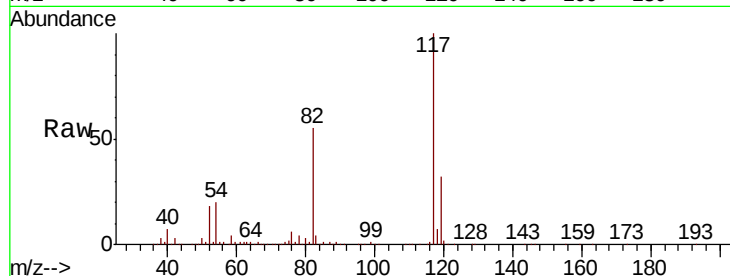




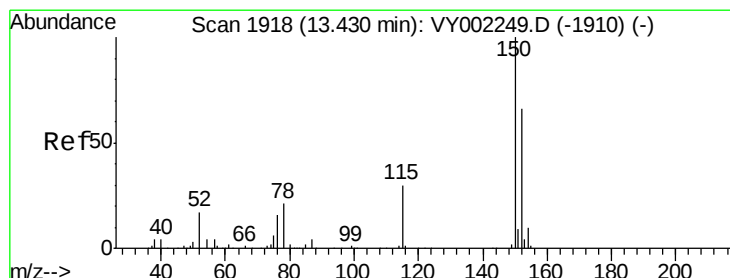
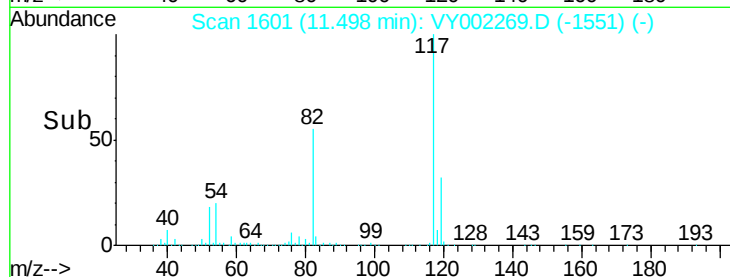
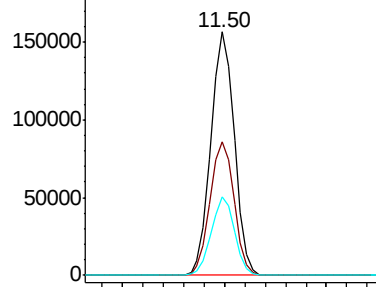
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VY002269.D
Acq: 09 Apr 2020 12:44

Instrument :
MSVOA_Y
ClientSampleId :
JC-02-04082020-C

Tot Ion:117 Resp: 249423
Ion Ratio Lower Upper
117 100
82 55.0 44.2 66.4
119 32.2 25.1 37.7

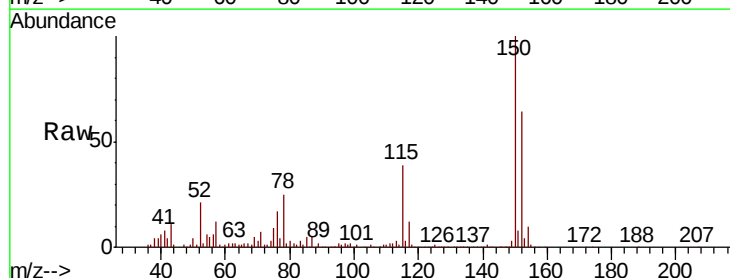


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

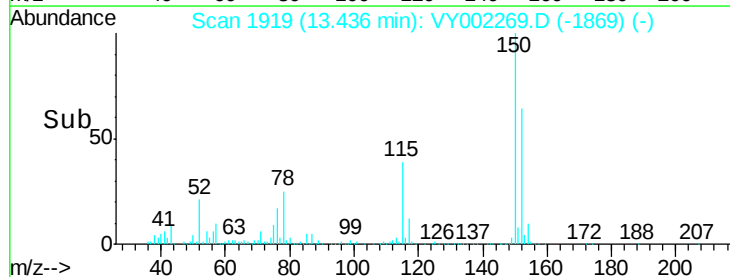
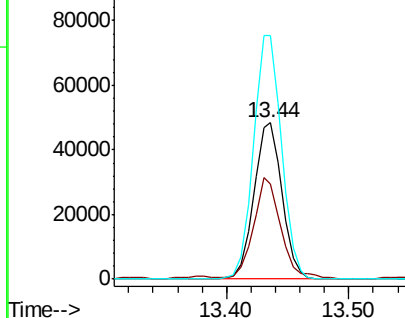


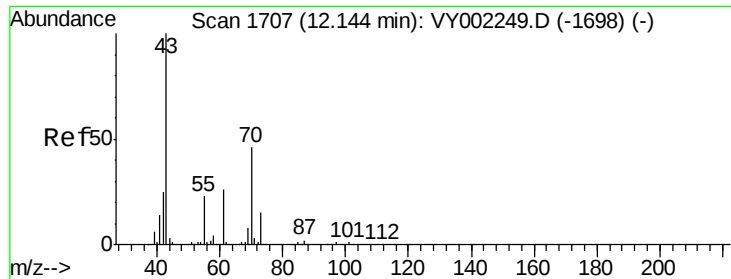
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.01 min
Lab File: VY002269.D
Acq: 09 Apr 2020 12:44

Tgt Ion:152 Resp: 77619
Ion Ratio Lower Upper
152 100
115 62.2 30.7 92.1
150 155.0 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





#74

N-amvl acetate

Concen: 2.435 ug/l

RT: 12.11 min Scan# 1701

Delta R.T. -0.04 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

JC-02-04082020-C

Tot Ion: 43 Resp: 4215

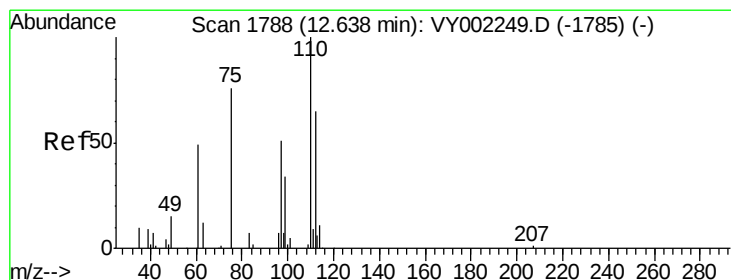
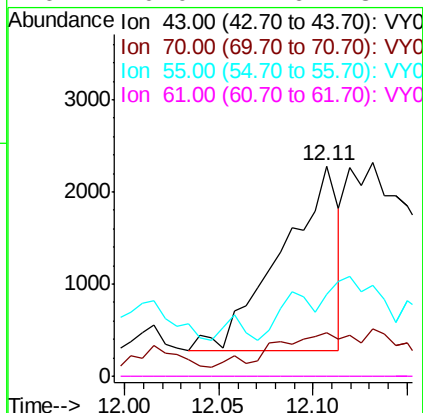
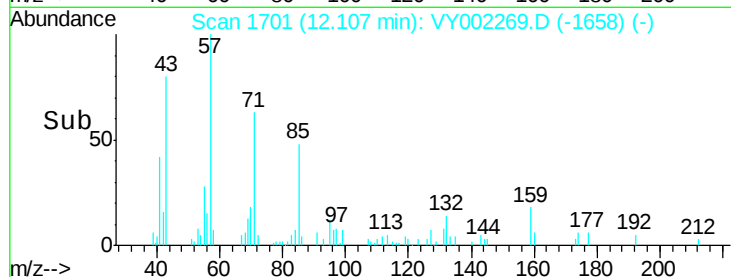
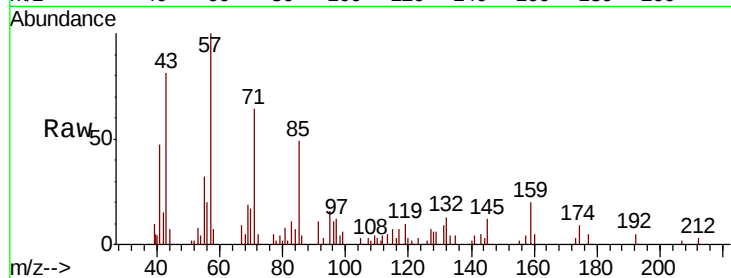
Ion Ratio Lower Upper

43 100

70 25.8 37.5 56.3#

55 21.9 19.0 28.6

61 0.0 21.6 32.4#



#76

1,2,3-Trichloropropane

Concen: 54.743 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002269.D

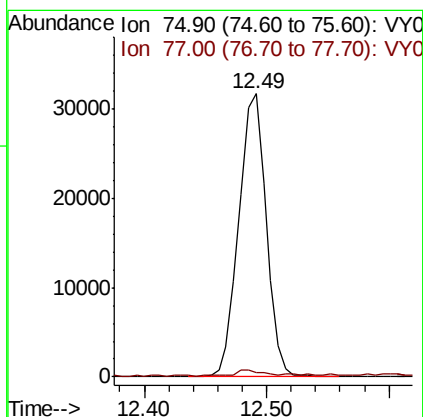
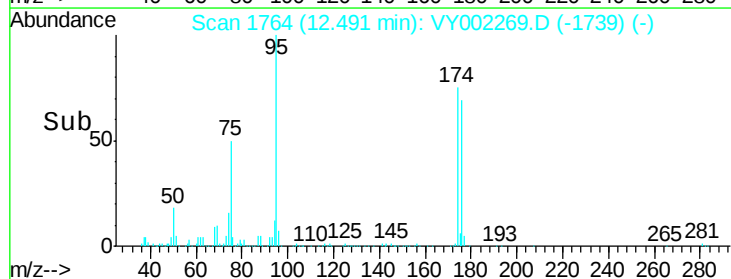
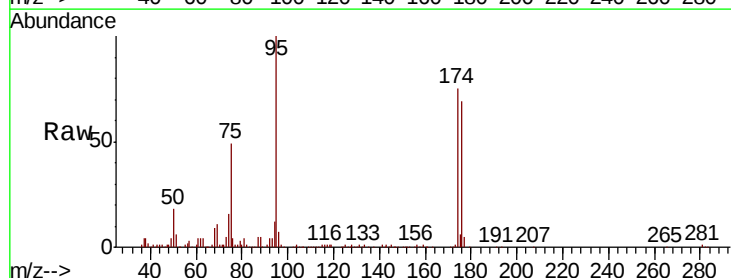
Acq: 09 Apr 2020 12:44

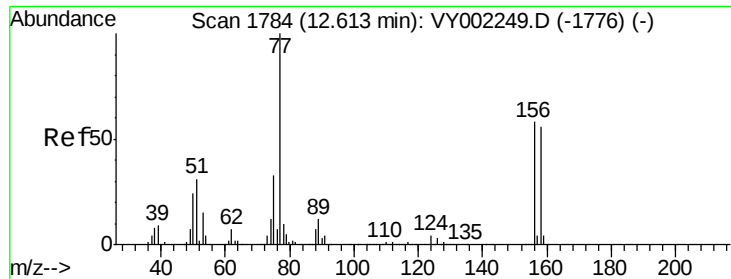
Tgt Ion: 75 Resp: 49341

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#





#77

Bromobenzene

Concen: 2.417 ug/l

RT: 12.55 min Scan# 1774

Delta R.T. -0.06 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

JC-02-04082020-C

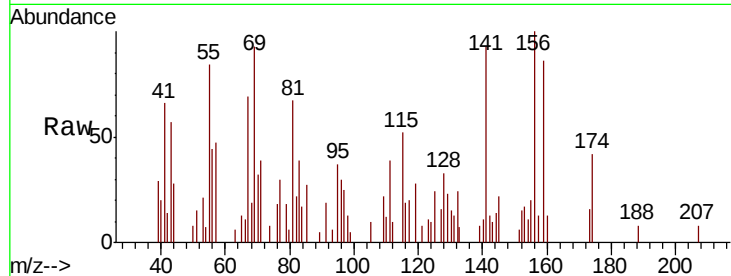
Tot Ion:156 Resp: 3242

Ion Ratio Lower Upper

156 100

77 0.0 101.3 303.9#

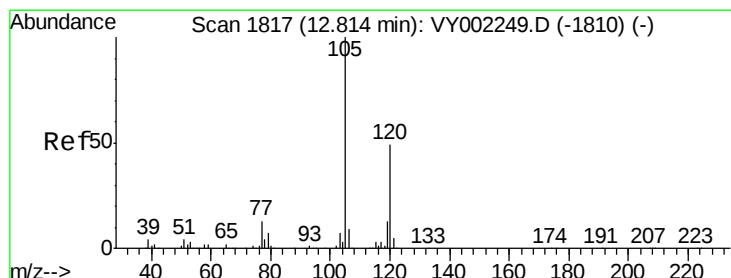
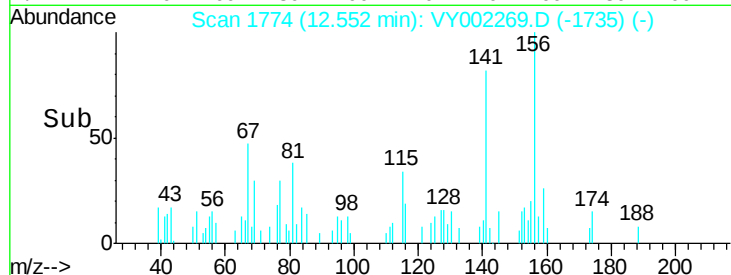
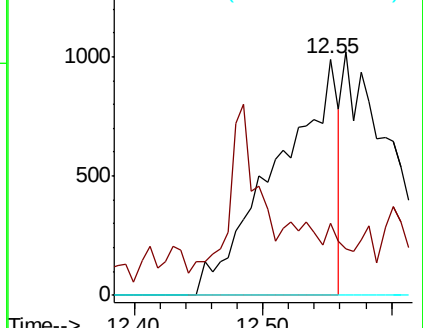
158 0.0 48.3 144.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 1.649 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VY002269.D

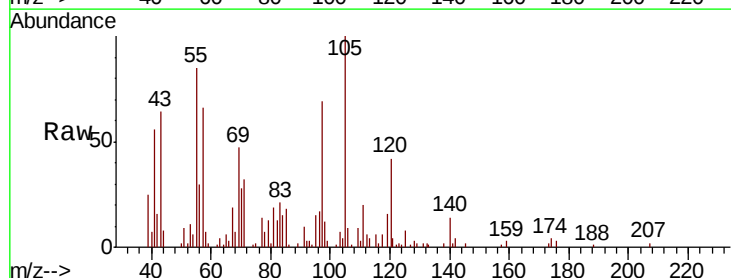
Acq: 09 Apr 2020 12:44

Tgt Ion:105 Resp: 8318

Ion Ratio Lower Upper

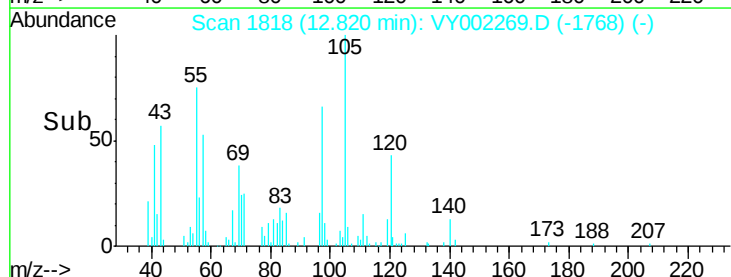
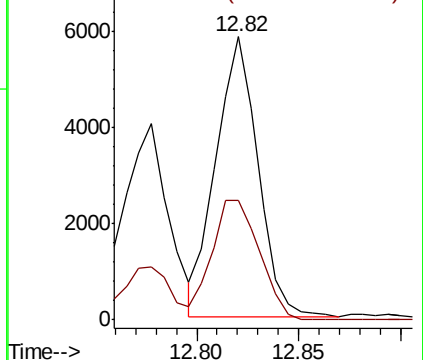
105 100

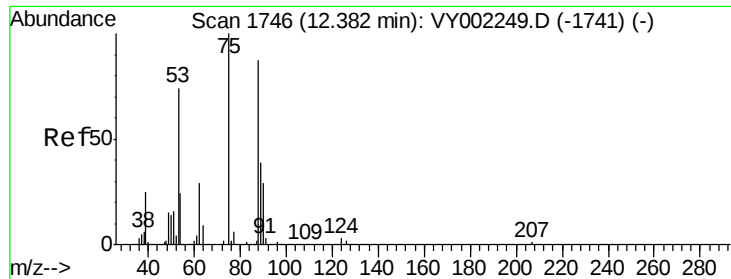
120 48.1 24.7 74.1



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: 106.474 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.11 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

JC-02-04082020-C

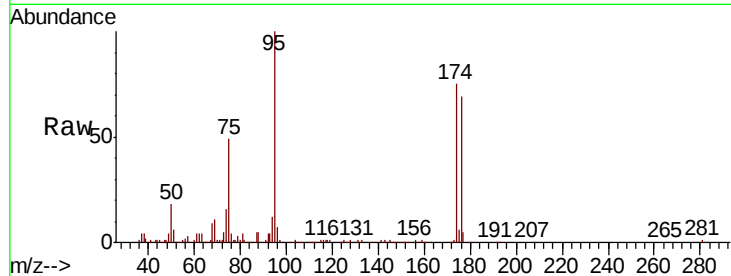
Tot Ion: 75 Resp: 49341

Ion Ratio Lower Upper

75 100

53 0.1 59.8 89.8#

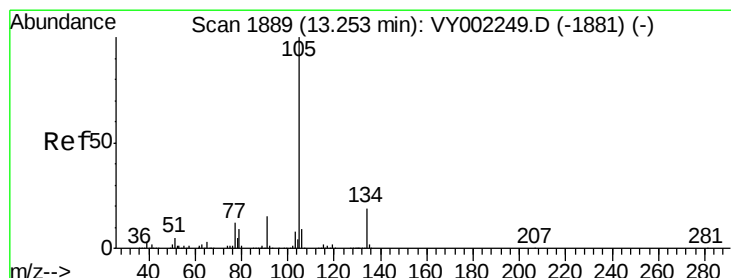
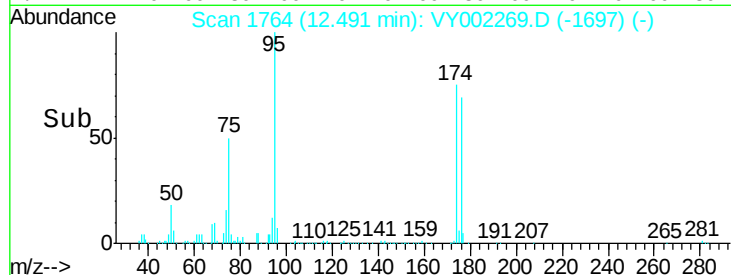
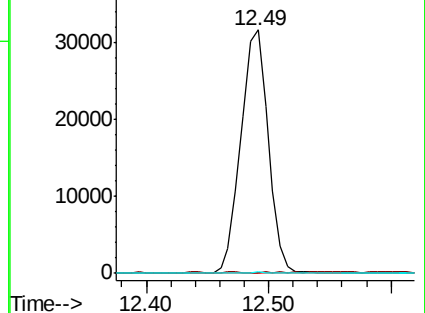
89 0.2 37.0 55.6#



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



#85

sec-Butylbenzene

Concen: 7.571 ug/l

RT: 13.47 min Scan# 1924

Delta R.T. 0.21 min

Lab File: VY002269.D

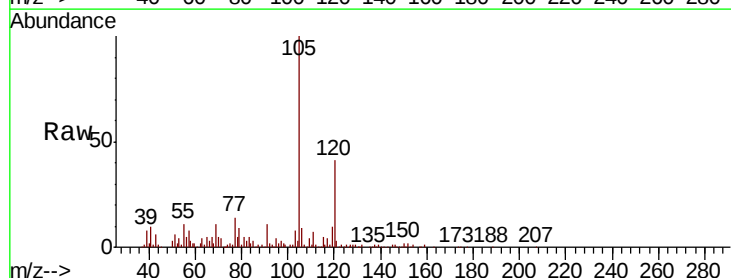
Acq: 09 Apr 2020 12:44

Tgt Ion: 105 Resp: 47645

Ion Ratio Lower Upper

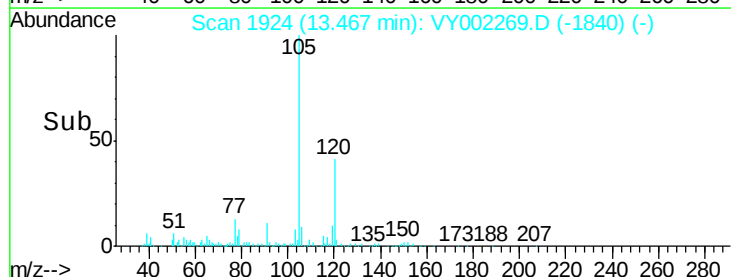
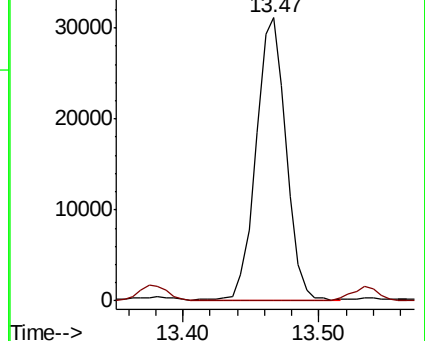
105 100

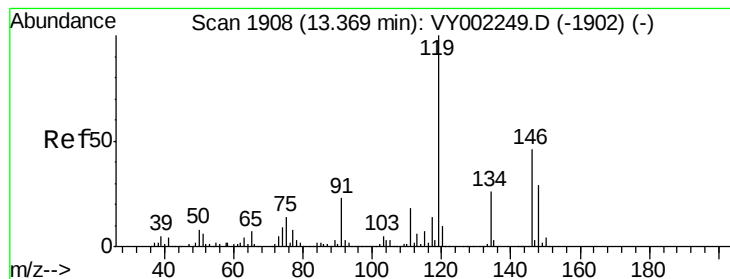
134 0.0 9.8 29.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86

p-Isopropyltoluene

Concen: 1.830 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. 0.01 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

JC-02-04082020-C

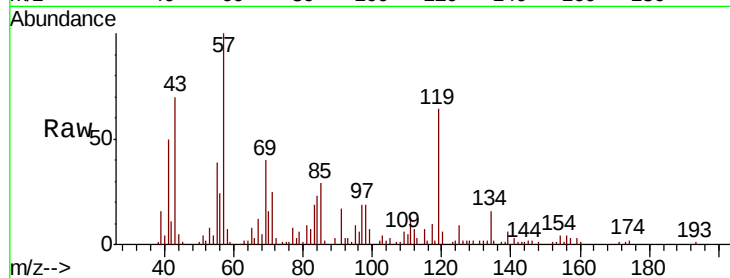
Tot Ion: 119 Resp: 9911

Ion Ratio Lower Upper

119 100

134 26.6 13.3 39.9

91 22.7 11.5 34.4

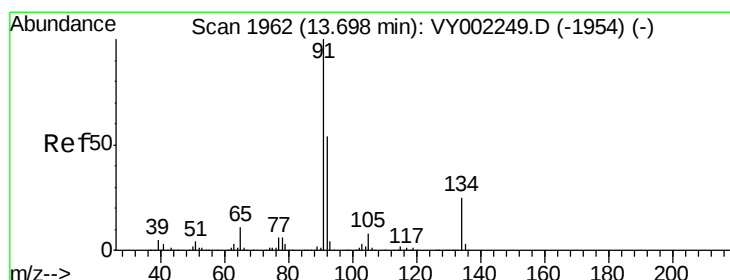
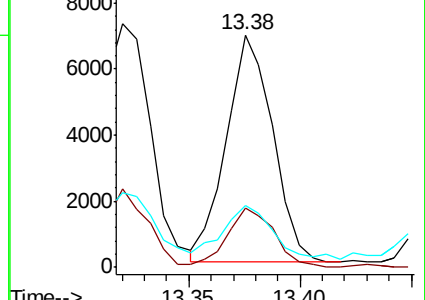
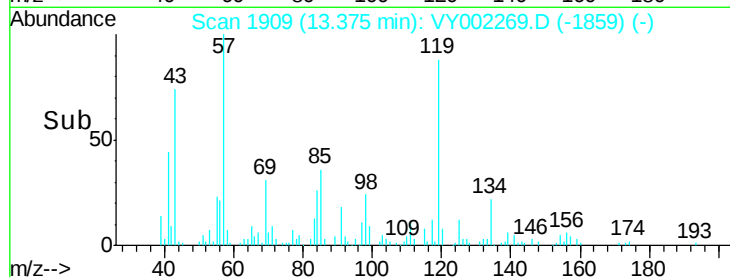


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

Time-->



#89

n-Butylbenzene

Concen: 4.029 ug/l

RT: 13.67 min Scan# 1958

Delta R.T. -0.02 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

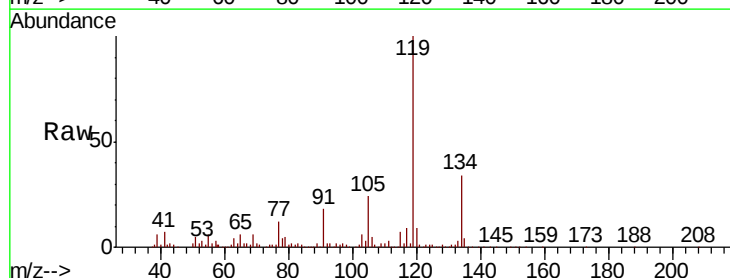
Tgt Ion: 91 Resp: 22368

Ion Ratio Lower Upper

91 100

92 11.5 27.2 81.6#

134 181.7 12.7 38.0#

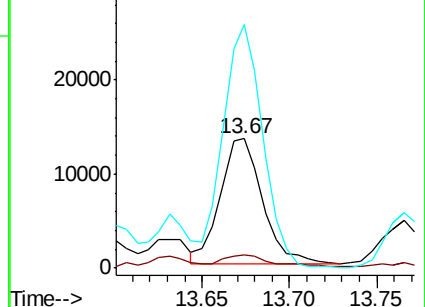
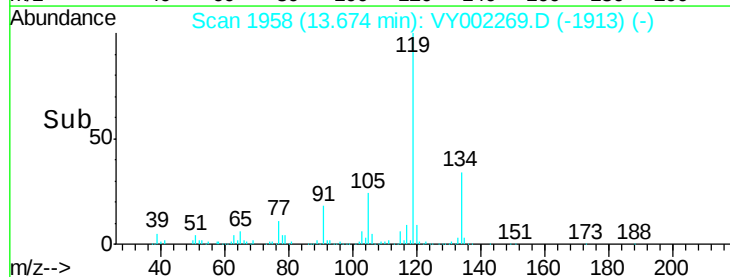


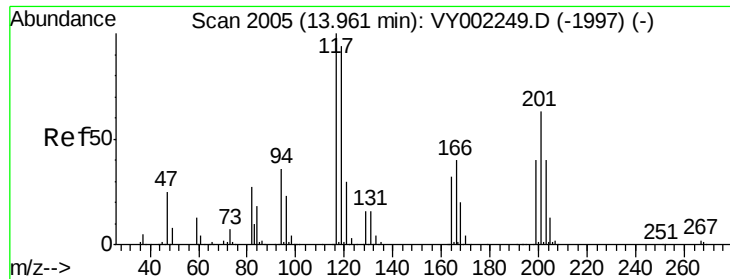
Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0

Ion 134.00 (133.70 to 134.70): V

Time-->





#90

Hexachloroethane

Concen: 10.887 ug/l

RT: 13.98 min Scan# 2009

Delta R.T. 0.02 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

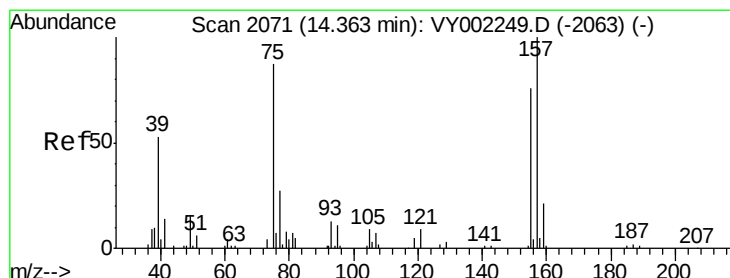
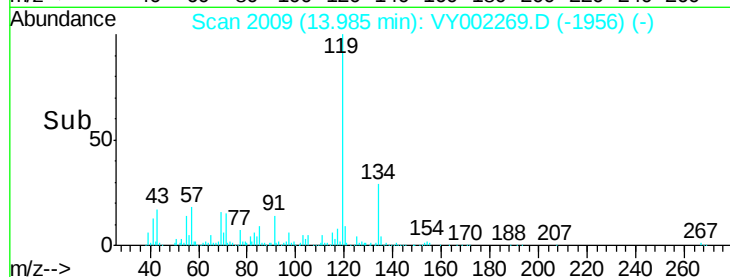
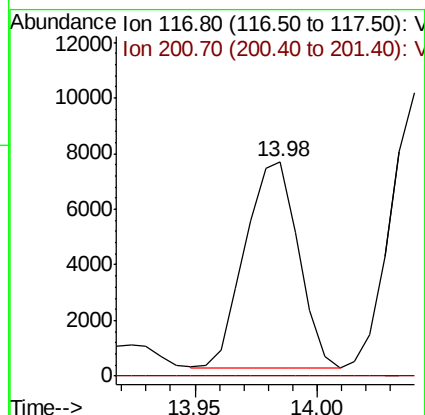
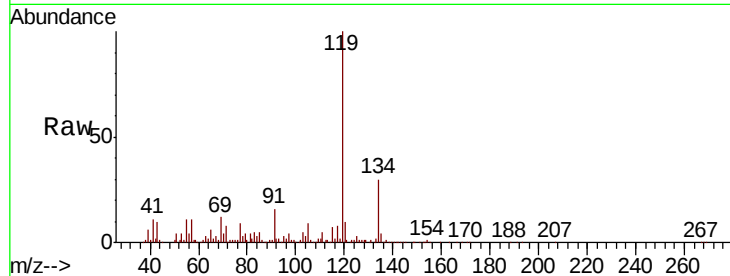
JC-02-04082020-C

Tot Ion:117 Resp: 11236

Ion Ratio Lower Upper

117 100

201 0.0 33.1 99.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.497 ug/l

RT: 14.35 min Scan# 2069

Delta R.T. -0.01 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

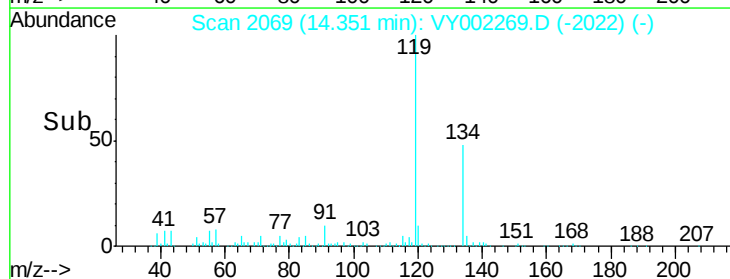
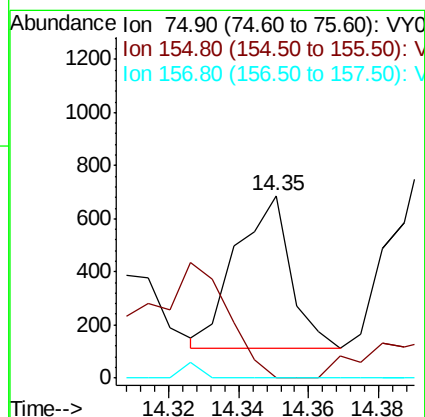
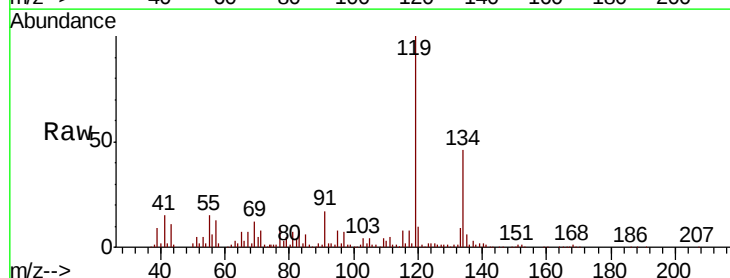
Tgt Ion: 75 Resp: 624

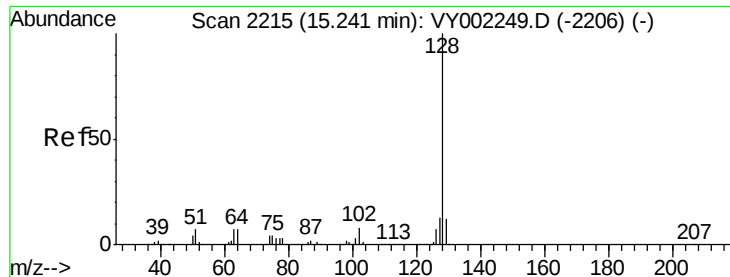
Ion Ratio Lower Upper

75 100

155 0.0 43.6 130.8#

157 0.0 56.0 168.2#





#95

Naphthalene

Concen: 2.245 ug/l

RT: 15.22 min Scan# 2211

Delta R.T. -0.02 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

Instrument :

MSVOA_Y

ClientSampleId :

JC-02-04082020-C

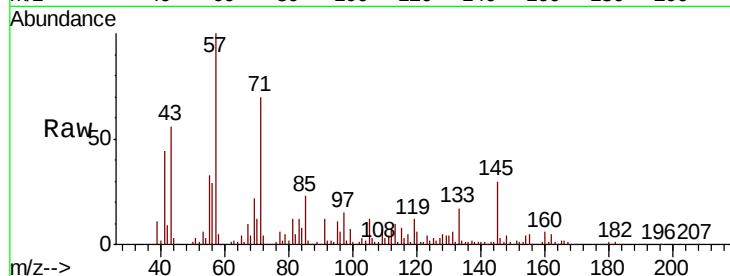
Tot Ion:128 Resp: 7590

Ion Ratio Lower Upper

128 100

127 69.9 10.1 15.1#

129 64.2 8.7 13.1#

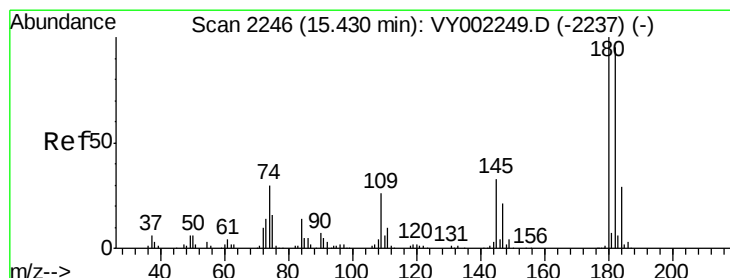
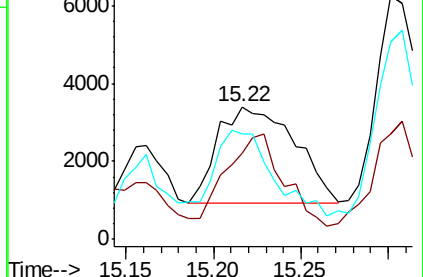
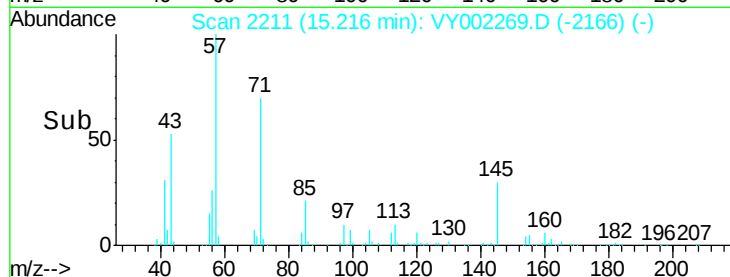


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 1.665 ug/l

RT: 15.41 min Scan# 2242

Delta R.T. -0.02 min

Lab File: VY002269.D

Acq: 09 Apr 2020 12:44

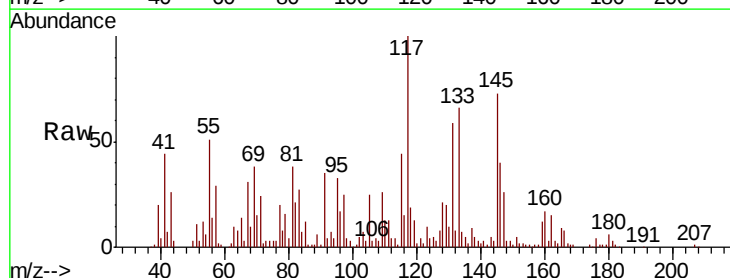
Tgt Ion:180 Resp: 2233

Ion Ratio Lower Upper

180 100

182 34.2 47.1 141.3#

145 981.7 16.7 50.1#



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

Time-->

