

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY060520\
 Data File : VY002847.D
 Acq On : 05 Jun 2020 14:38
 Operator : SY/MD
 Sample : L2930-01
 Misc : 6.06G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 S39-HSVE2-IDW01

Quant Time: Jun 06 07:57:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y052720S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 13:13:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	225261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	348211	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	310008	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	151220	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	96738	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
35) Dibromofluoromethane	7.72	113	93028	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	
50) Toluene-d8	10.18	98	406995	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	12.48	95	127558	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	

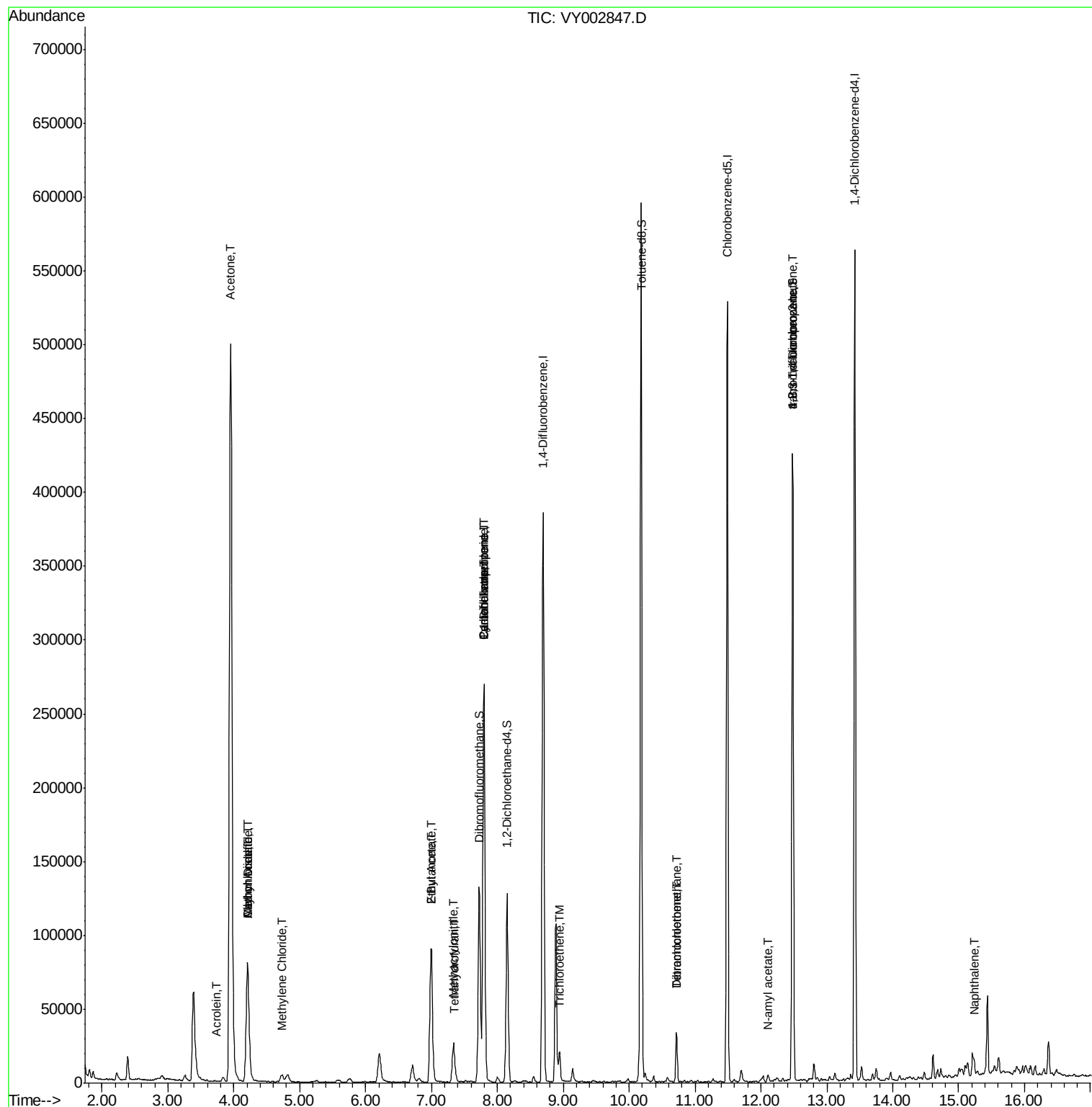
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.95	59	100	Below Cal	#	74
13) Acrolein	3.74	56	691	3.015	ug/l #	80
14) Allyl chloride	4.21	41	9112	3.315	ug/l #	63
16) Acetone	3.95	43	850220	1853.817	ug/l	97
17) Carbon Disulfide	4.20	76	21683	3.744	ug/l	96
18) Methyl Acetate	4.21	43	18602	15.496	ug/l #	48
20) Methylene Chloride	4.73	84	3959	1.766	ug/l #	83
25) 2-Butanone	7.00	43	152238	213.055	ug/l	96
29) Tetrahydrofuran	7.36	42	3048	6.558	ug/l #	92
31) Cyclohexane	7.79	56	7343	2.214	ug/l #	32
36) 1,1-Dichloropropene	7.79	75	13719	4.677	ug/l #	47
37) Ethyl Acetate	7.00	43	152238	95.393	ug/l #	67
38) Carbon Tetrachloride	7.80	117	19564	6.004	ug/l #	17
41) Methacrylonitrile	7.33	41	5604	6.536	ug/l #	27
44) Trichloroethene	8.94	130	6909	2.524	ug/l	98
60) Dibromochloromethane	10.72	129	6389	2.667	ug/l #	11
64) Tetrachloroethene	10.72	164	7551	2.680	ug/l	92
74) N-amyl acetate	12.11	43	2908	1.170	ug/l #	44
76) 1,2,3-Trichloropropane	12.48	75	61184	44.903	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	61184	84.596	ug/l #	17
95) Naphthalene	15.23	128	7248	1.106	ug/l	97

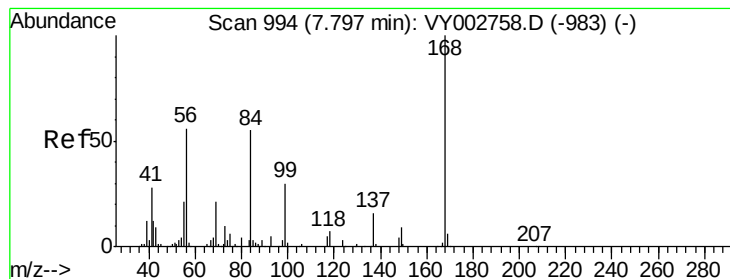
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

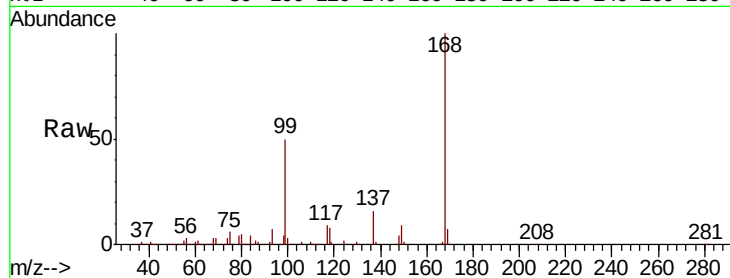
S39-HSVE2-IDW01

Tot Ion:168 Resp: 225261

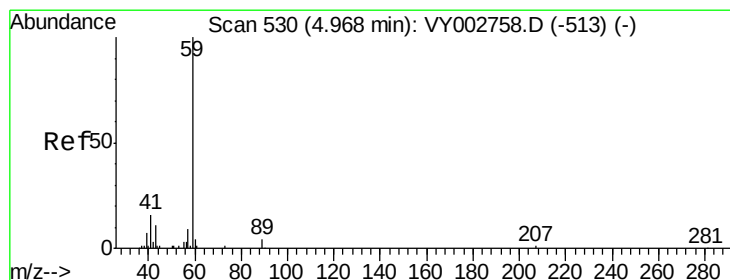
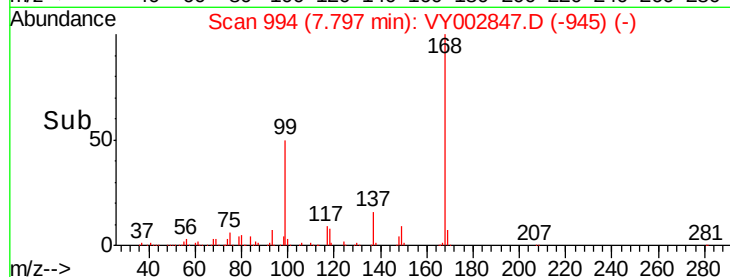
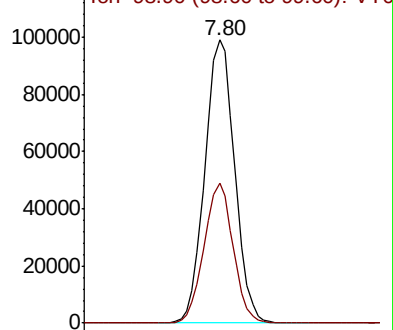
Ion Ratio Lower Upper

168 100

99 49.7 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VY002847.D (-945) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.95 min Scan# 527

Delta R.T. -0.02 min

Lab File: VY002847.D

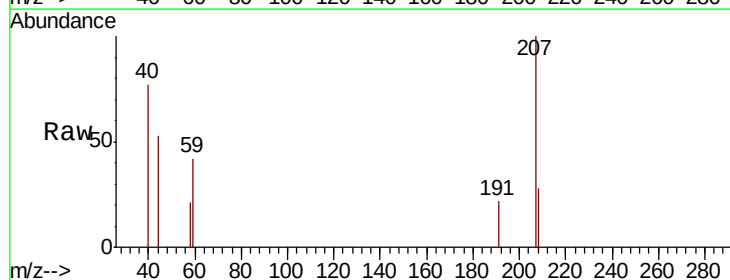
Acq: 05 Jun 2020 14:38

Tgt Ion: 59 Resp: 100

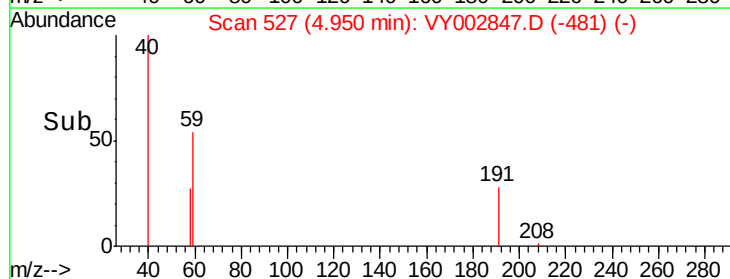
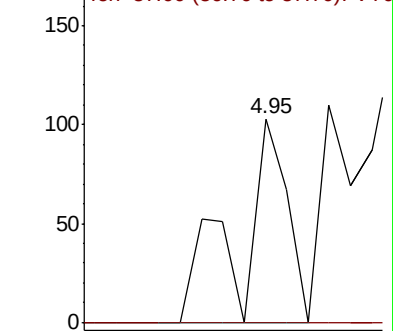
Ion Ratio Lower Upper

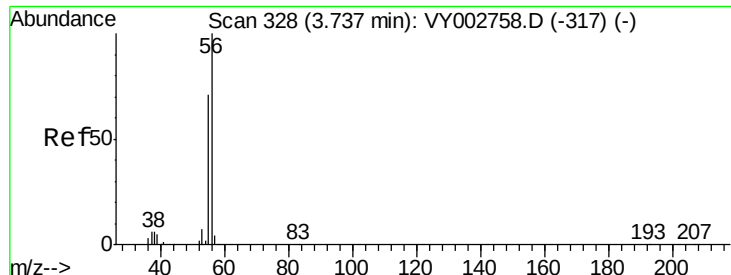
59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VY002847.D (-481) (-)





#13

Acrolein

Concen: 3.015 ug/l

RT: 3.74 min Scan# 328

Delta R.T. 0.00 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

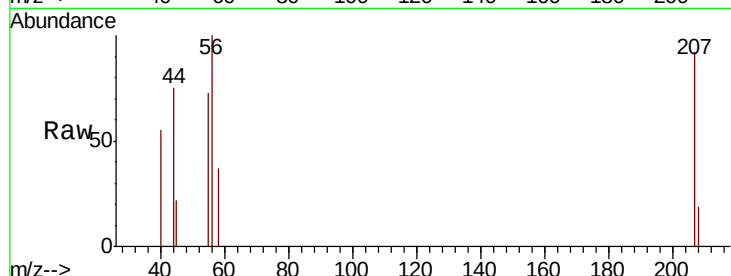
S39-HSVE2-IDW01

Tot Ion: 56 Resp: 691

Ion Ratio Lower Upper

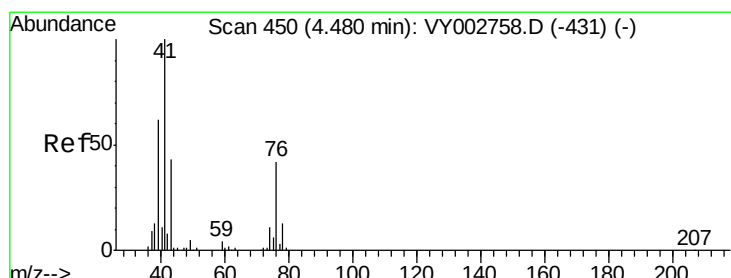
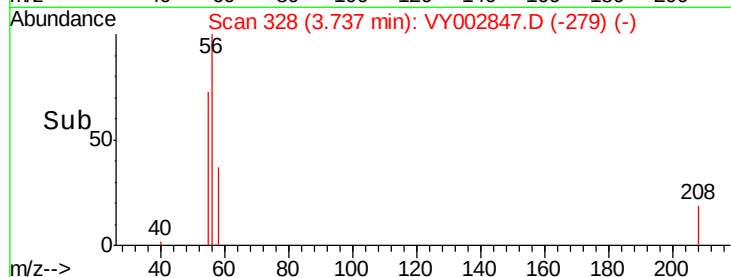
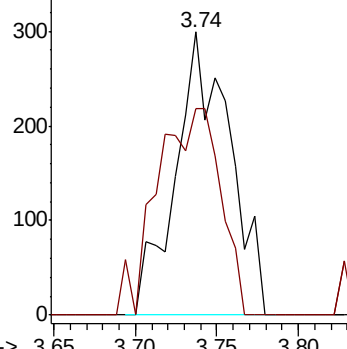
56 100

55 86.5 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 3.315 ug/l

RT: 4.21 min Scan# 405

Delta R.T. -0.27 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

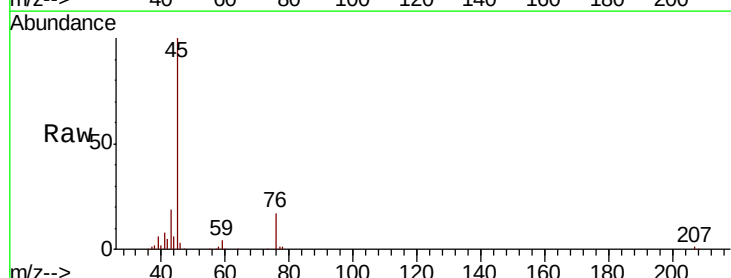
Tgt Ion: 41 Resp: 9112

Ion Ratio Lower Upper

41 100

39 76.3 49.9 74.9#

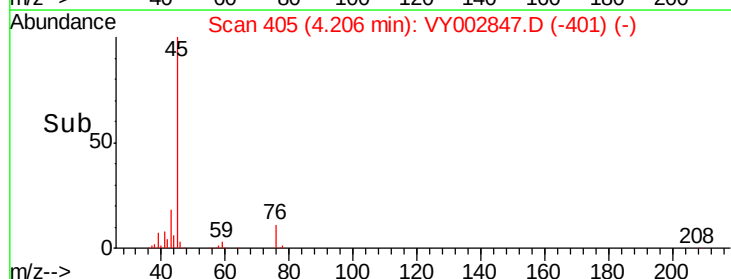
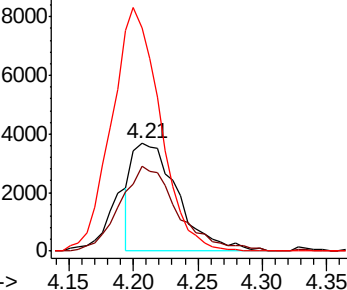
76 0.0 33.2 49.8#

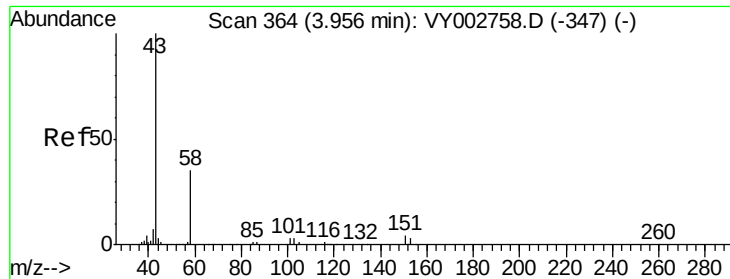


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#16

Acetone

Concen: 1853.817 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

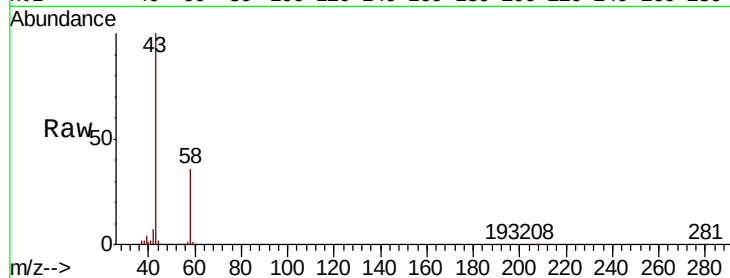
S39-HSVE2-IDW01

Tot Ion: 43 Resp: 850220

Ion Ratio Lower Upper

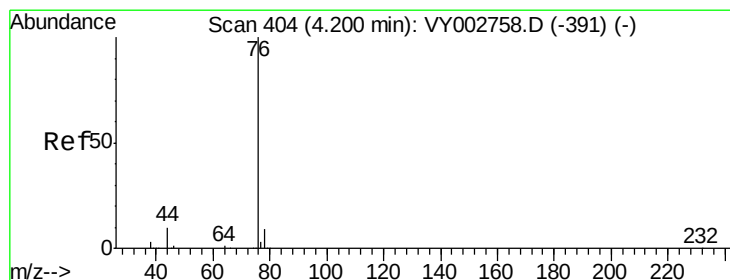
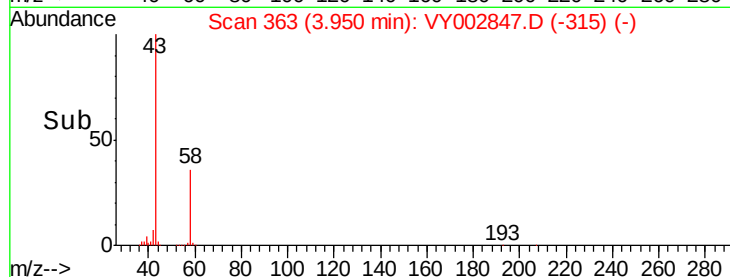
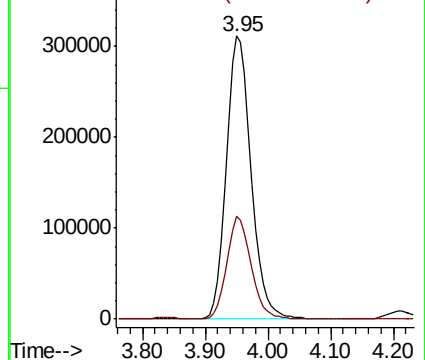
43 100

58 36.1 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#17

Carbon Disulfide

Concen: 3.744 ug/l

RT: 4.20 min Scan# 404

Delta R.T. 0.00 min

Lab File: VY002847.D

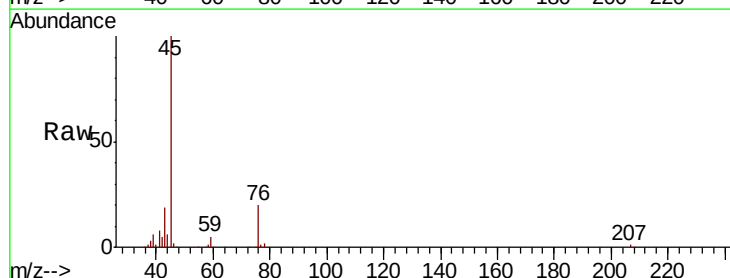
Acq: 05 Jun 2020 14:38

Tgt Ion: 76 Resp: 21683

Ion Ratio Lower Upper

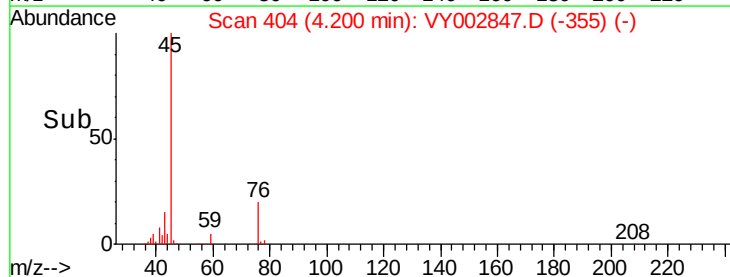
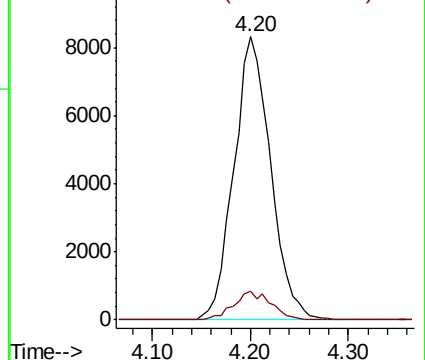
76 100

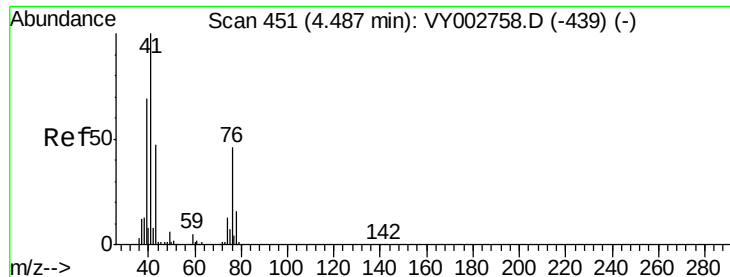
78 10.1 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

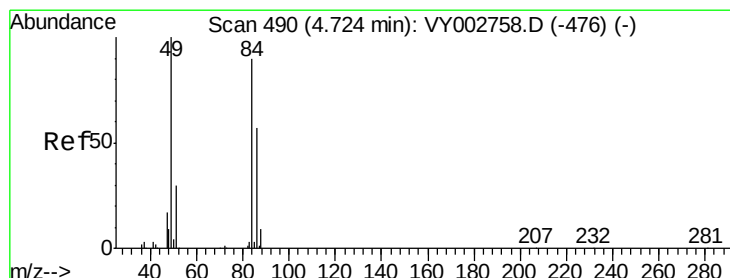
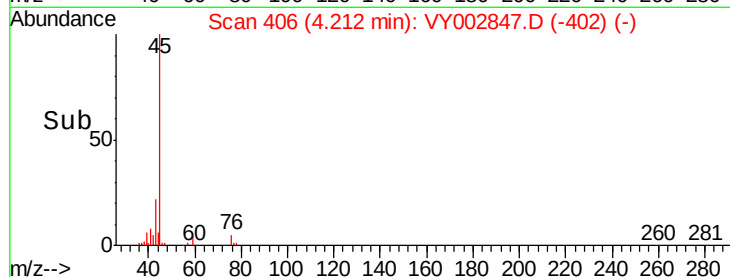
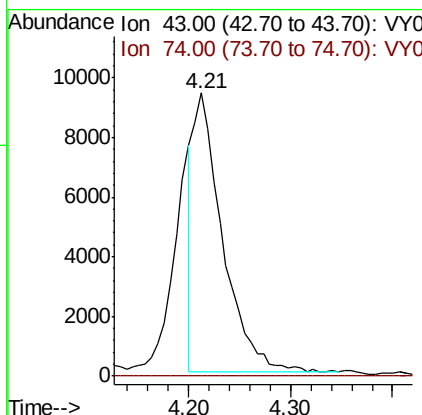
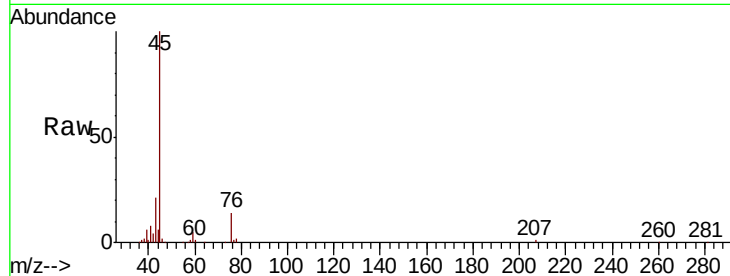




#18
Methyl Acetate
Concen: 15.496 ug/l
RT: 4.21 min Scan# 406
Delta R.T. -0.27 min
Lab File: VY002847.D
Acq: 05 Jun 2020 14:38

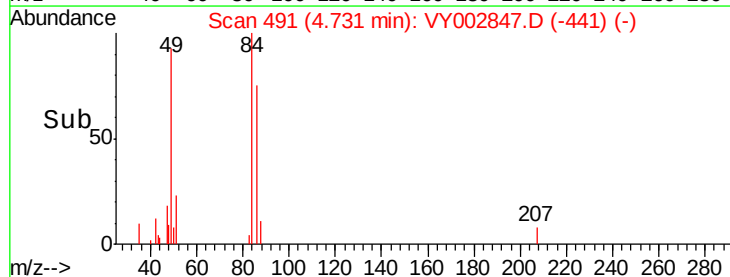
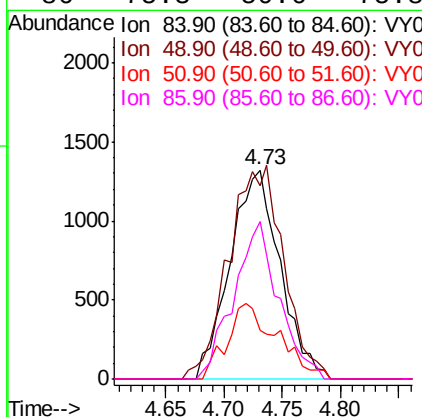
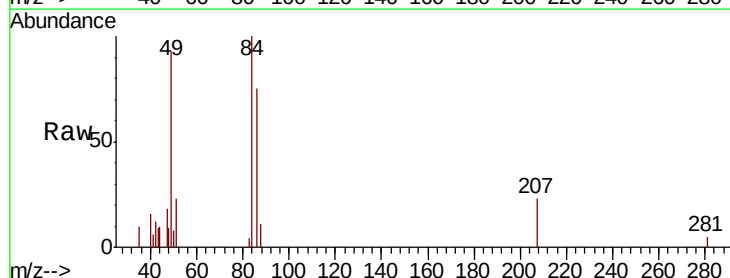
Instrument :
MSVOA_Y
ClientSampleId :
S39-HSVE2-IDW01

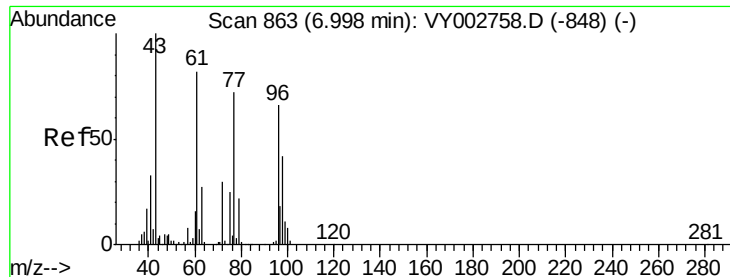
Tot Ion: 43 Resp: 18602
Ion Ratio Lower Upper
43 100
74 0.0 21.4 32.0#



#20
Methylene Chloride
Concen: 1.766 ug/l
RT: 4.73 min Scan# 491
Delta R.T. 0.01 min
Lab File: VY002847.D
Acq: 05 Jun 2020 14:38

Tgt Ion: 84 Resp: 3959
Ion Ratio Lower Upper
84 100
49 92.7 88.5 132.7
51 23.2 26.8 40.2#
86 75.3 50.6 75.8





#25

2-Butanone

Concen: 213.055 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.00 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

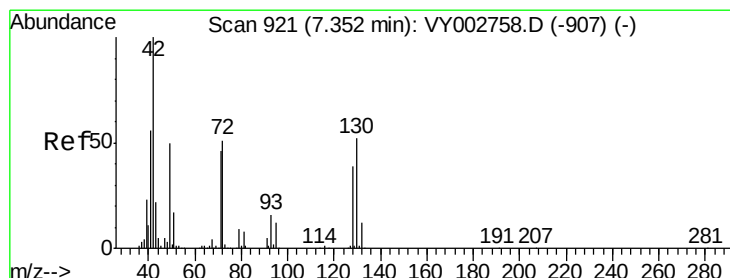
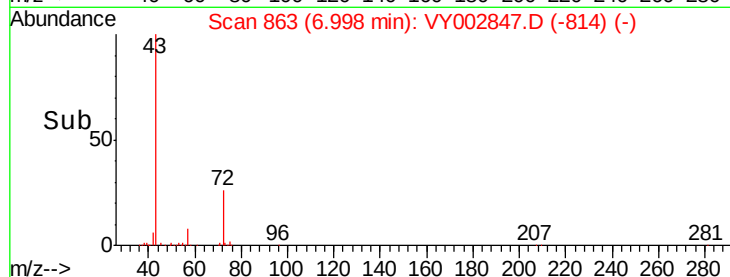
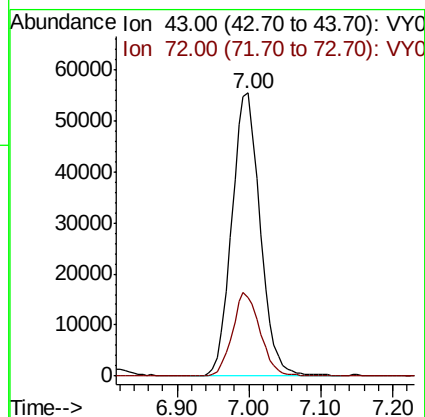
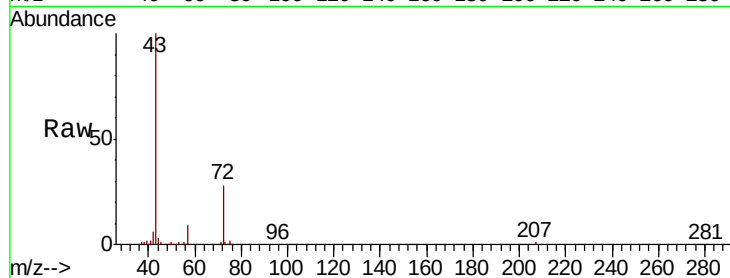
S39-HSVE2-IDW01

Tot Ion: 43 Resp: 152238

Ion Ratio Lower Upper

43 100

72 27.8 23.9 35.9



#29

Tetrahydrofuran

Concen: 6.558 ug/l

RT: 7.36 min Scan# 922

Delta R.T. 0.01 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

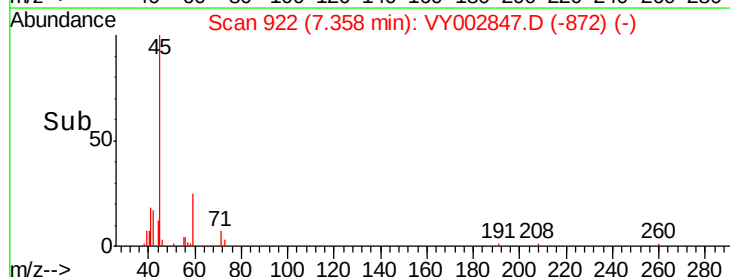
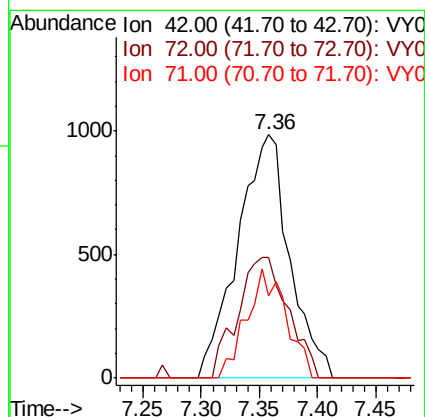
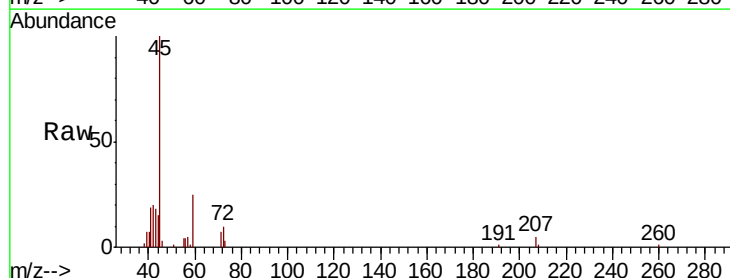
Tgt Ion: 42 Resp: 3048

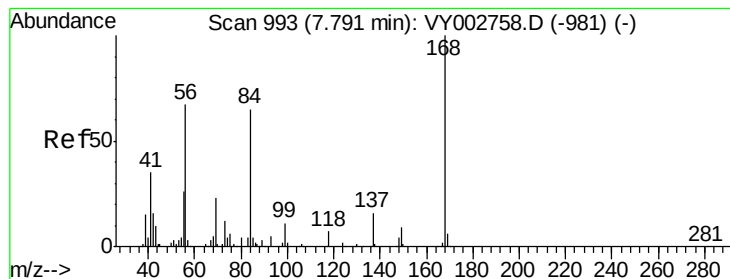
Ion Ratio Lower Upper

42 100

72 48.0 38.6 58.0

71 34.0 35.8 53.8#





#31

Cyclohexane

Concen: 2.214 ug/l

RT: 7.79 min Scan# 993

Delta R.T. 0.00 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

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S39-HSVE2-IDW01

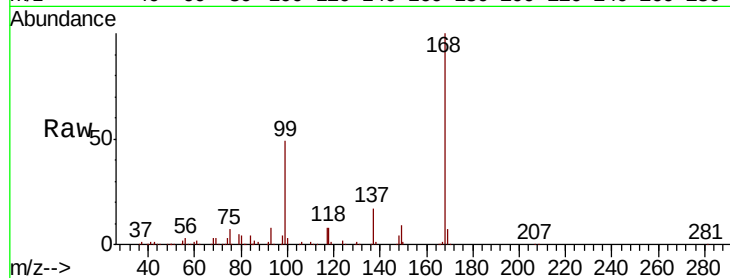
Tot Ion: 56 Resp: 7343

Ion Ratio Lower Upper

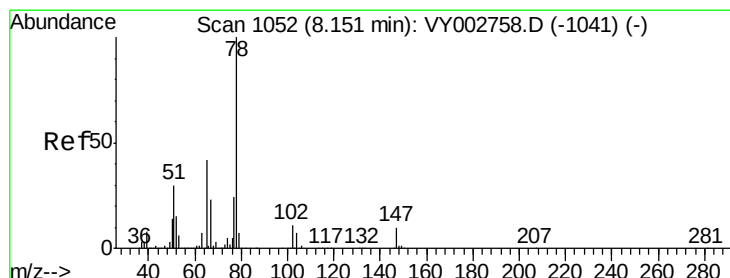
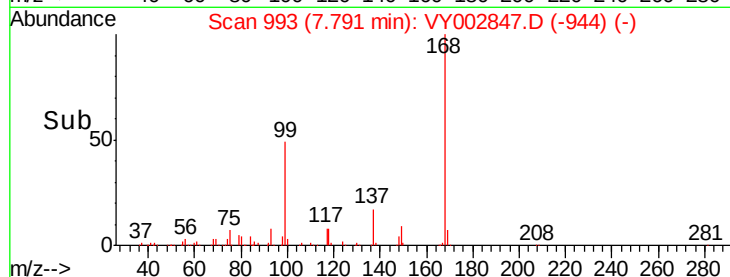
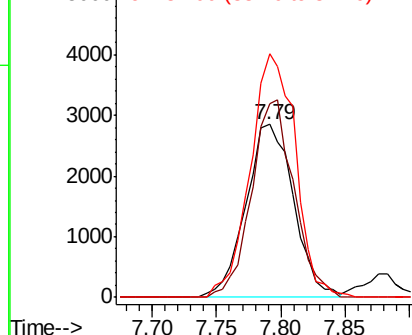
56 100

69 112.0 28.0 42.0#

84 141.0 77.7 116.5#



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: 49.460 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VY002847.D

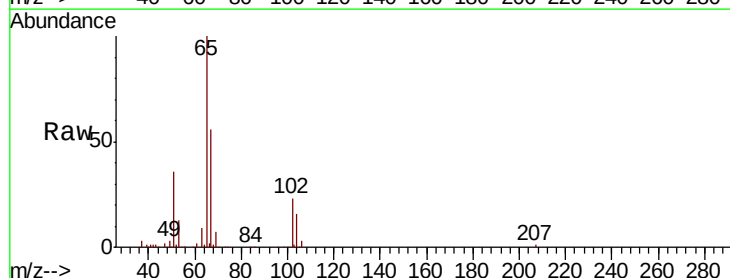
Acq: 05 Jun 2020 14:38

Tgt Ion: 65 Resp: 96738

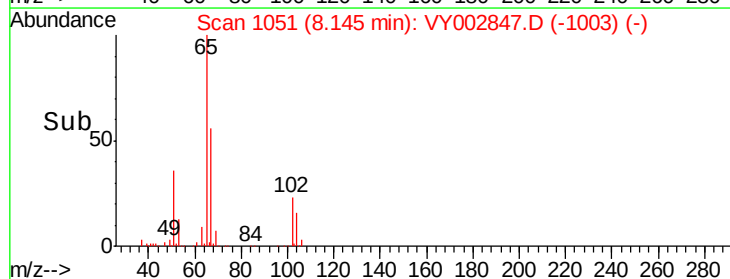
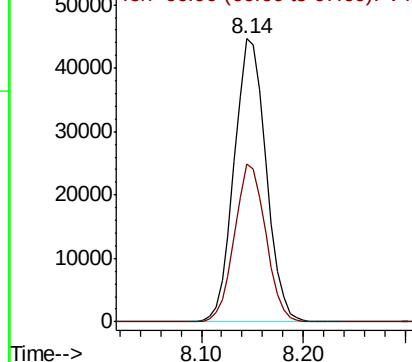
Ion Ratio Lower Upper

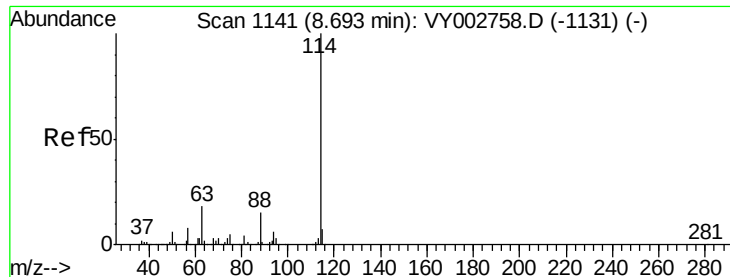
65 100

67 54.8 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

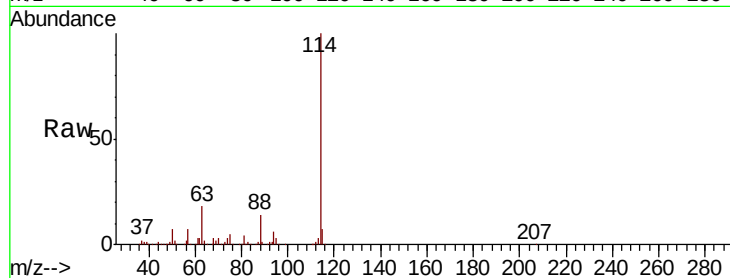




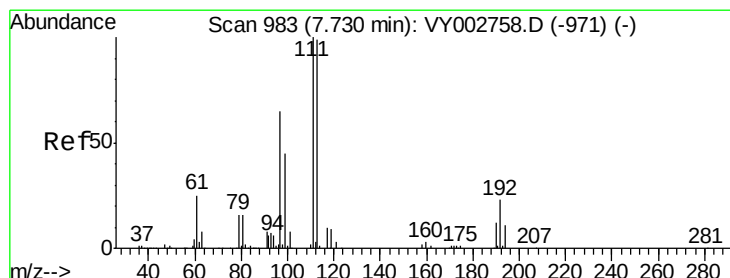
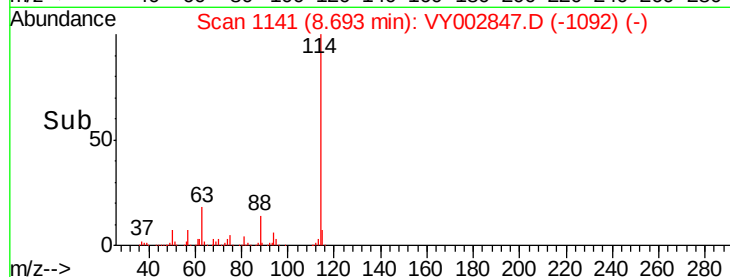
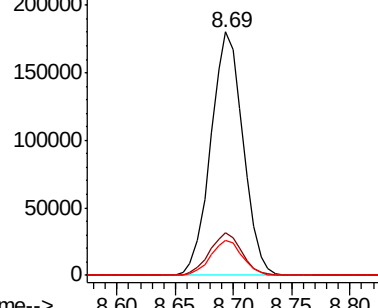
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.69 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VY002847.D
Acq: 05 Jun 2020 14:38

Instrument :
MSVOA_Y
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S39-HSVE2-IDW01

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	35.2
88	14.5	0.0	29.2

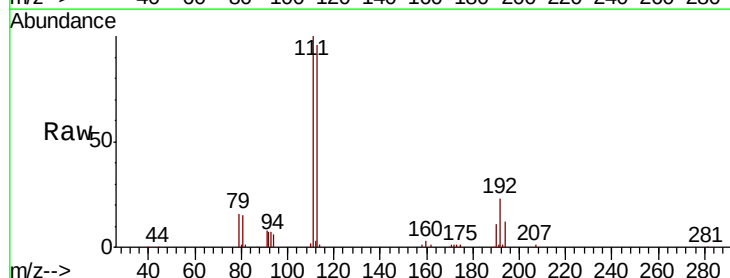


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VY0
Ion 87.90 (87.60 to 88.60): VY0

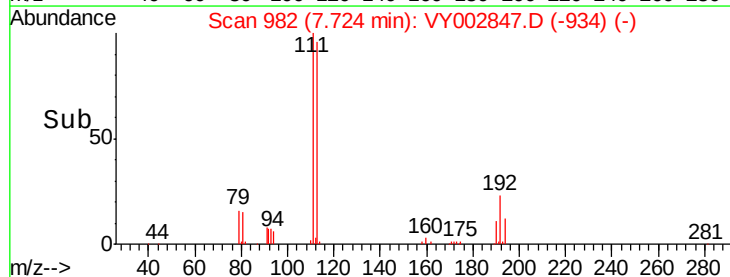
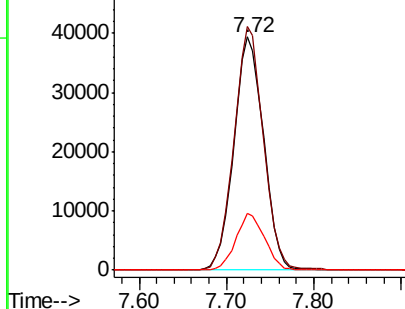


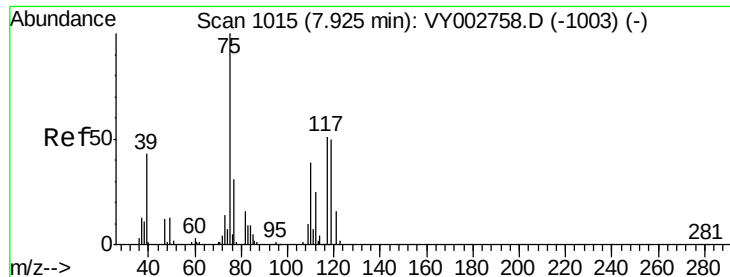
#35
Dibromofluoromethane
Concen: 45.587 ug/l
RT: 7.72 min Scan# 982
Delta R.T. -0.01 min
Lab File: VY002847.D
Acq: 05 Jun 2020 14:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.0	123.0
192	23.6	18.9	28.3



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

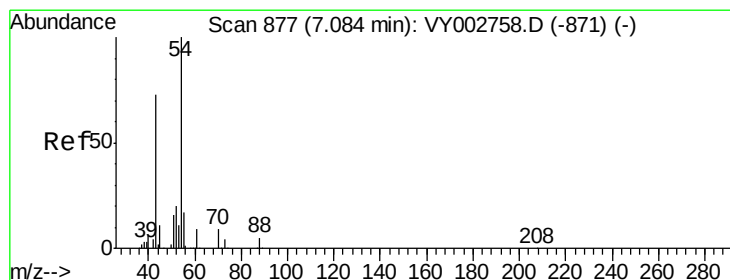
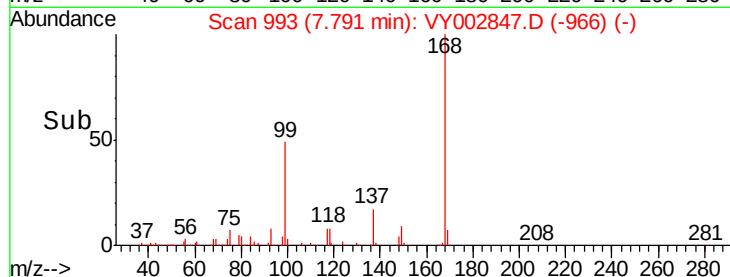
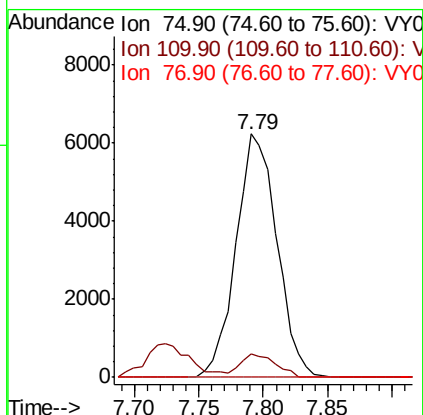
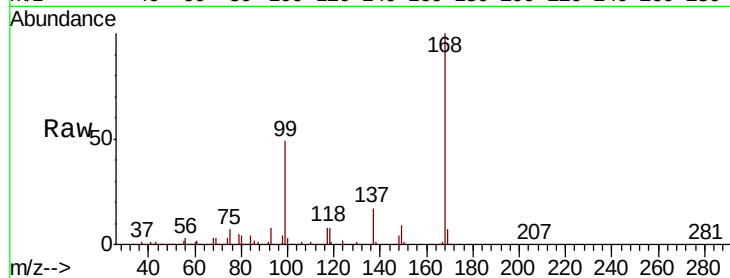




#36
 1,1-Dichloropropene
 Concen: 4.677 ug/l
 RT: 7.79 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VY002847.D
 Acq: 05 Jun 2020 14:38

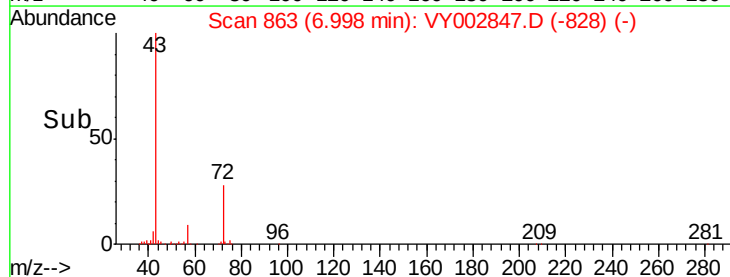
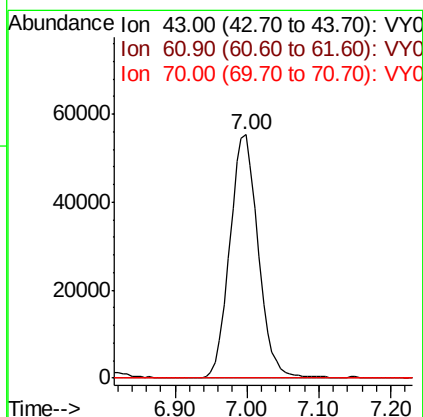
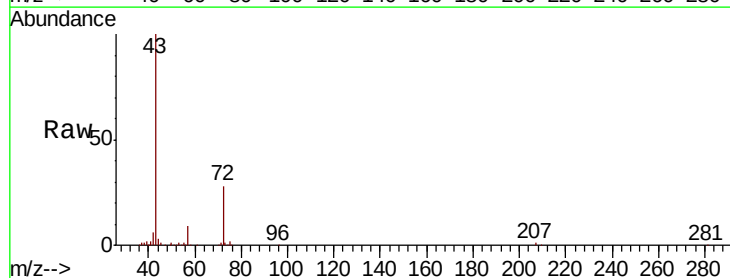
Instrument :
 MSVOA_Y
 ClientSampleId :
 S39-HSVE2-IDW01

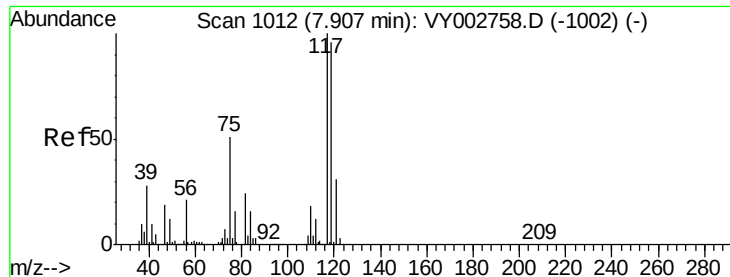
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	19.3	57.9#
77	0.0	24.8	37.2#



#37
 Ethyl Acetate
 Concen: 95.393 ug/l
 RT: 7.00 min Scan# 863
 Delta R.T. -0.09 min
 Lab File: VY002847.D
 Acq: 05 Jun 2020 14:38

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.1	11.9	17.9#
70	0.0	9.1	13.7#





#38

Carbon Tetrachloride

Concen: 6.004 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

S39-HSVE2-IDW01

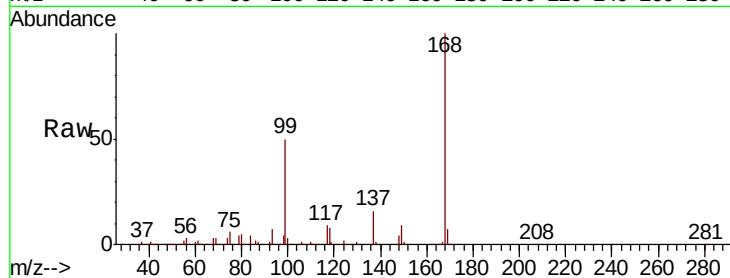
Tot Ion:117 Resp: 19564

Ion Ratio Lower Upper

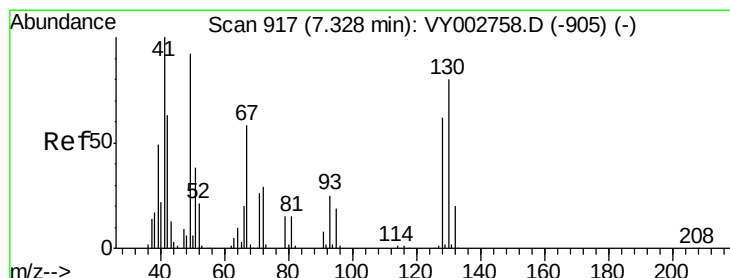
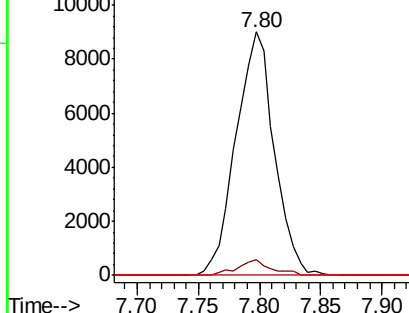
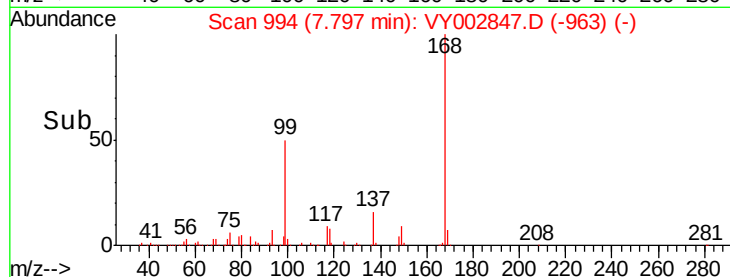
117 100

119 6.3 76.8 115.2#

121 0.0 24.8 37.2#



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: 6.536 ug/l

RT: 7.33 min Scan# 918

Delta R.T. 0.01 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Tgt Ion: 41 Resp: 5604

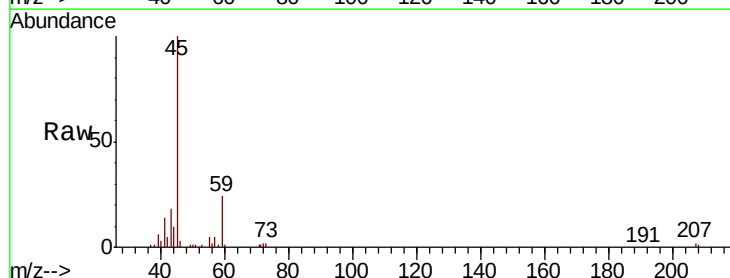
Ion Ratio Lower Upper

41 100

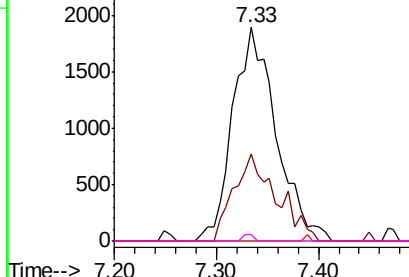
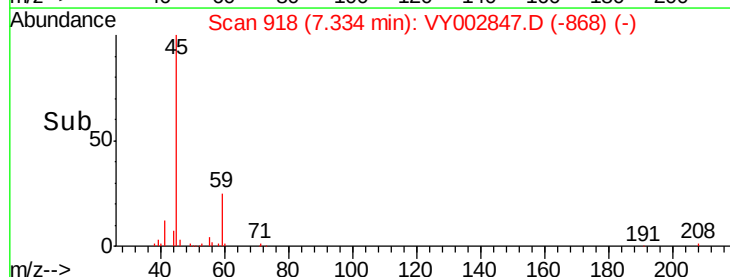
39 39.8 97.6 146.4#

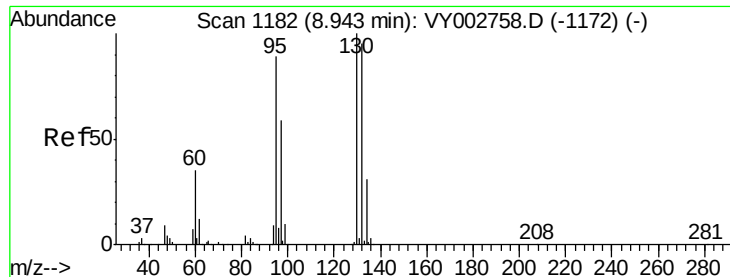
67 0.0 0.0 0.0

52 0.7 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





#44

Trichloroethene

Concen: 2.524 ug/l

RT: 8.94 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

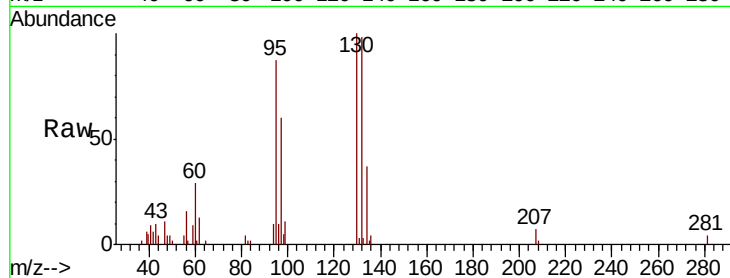
S39-HSVE2-IDW01

Tot Ion:130 Resp: 6909

Ion Ratio Lower Upper

130 100

95 87.1 0.0 178.8



Abundance Ion 129.80 (129.50 to 130.50): VY002758.D (-1172) (-)

Ion 94.90 (94.60 to 95.60): VY002758.D (-1172) (-)

8.94

4000

3000

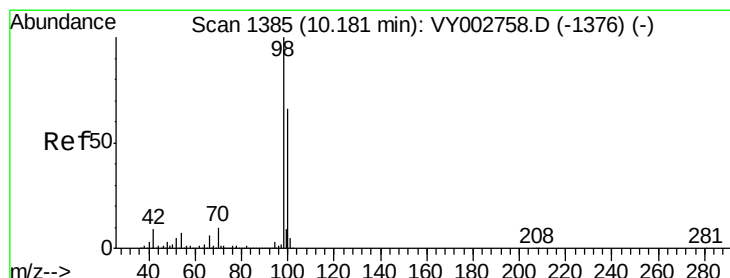
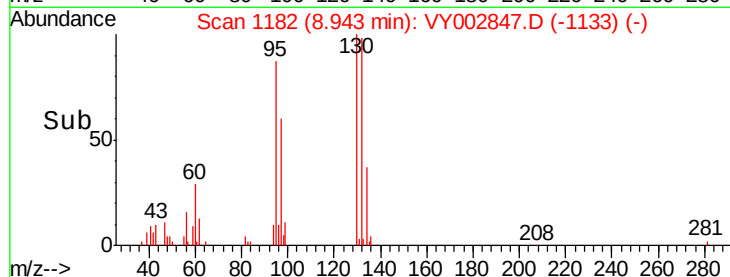
2000

1000

0

8.85 8.90 8.95 9.00

Time-->



#50

Toluene-d8

Concen: 49.326 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002847.D

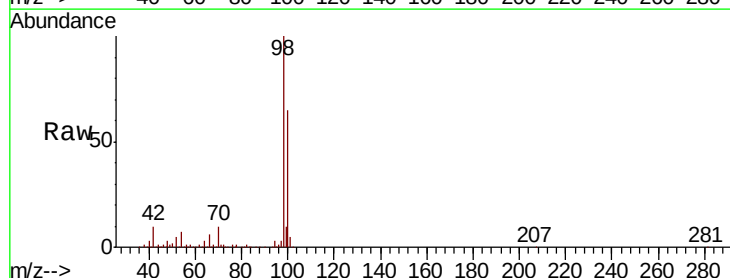
Acq: 05 Jun 2020 14:38

Tgt Ion: 98 Resp: 406995

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY002758.D (-1376) (-)

Ion 100.00 (99.70 to 100.70): VY002758.D (-1376) (-)

10.18

250000

200000

150000

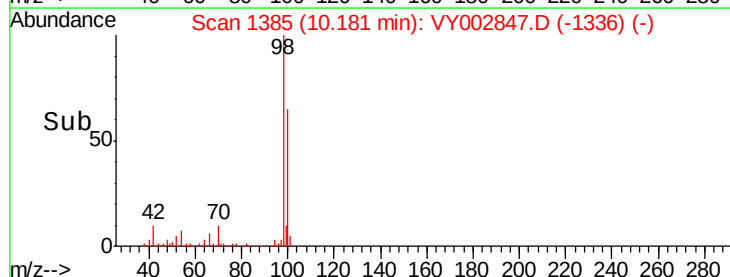
100000

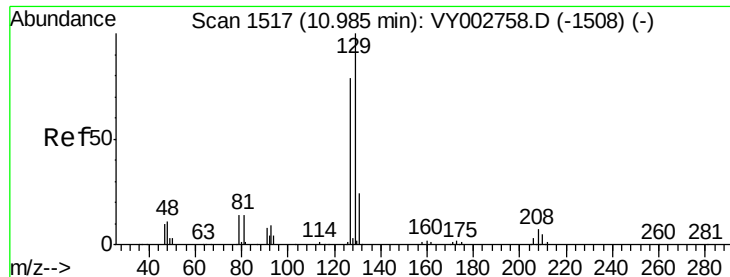
50000

0

10.10 10.20

Time-->





#60

Dibromochloromethane

Concen: 2.667 ug/l

RT: 10.72 min Scan# 1473

Delta R.T. -0.27 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

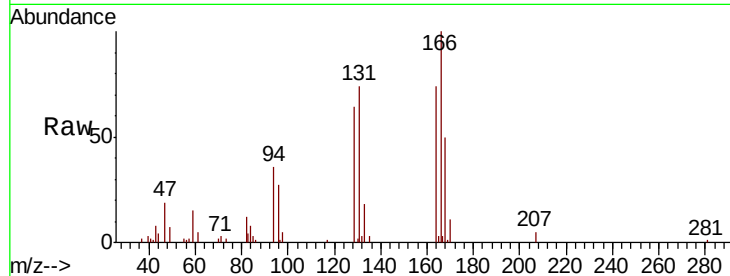
S39-HSVE2-IDW01

Tot Ion:129 Resp: 6389

Ion Ratio Lower Upper

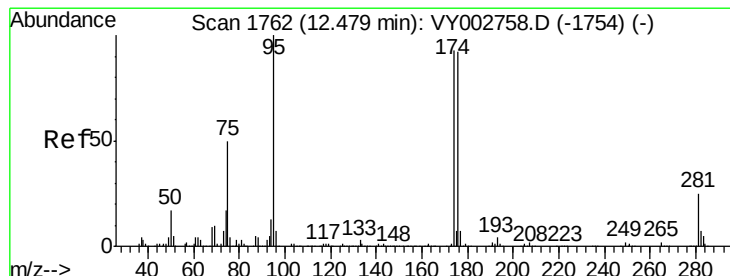
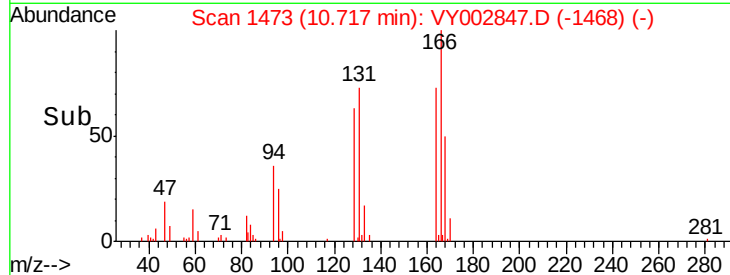
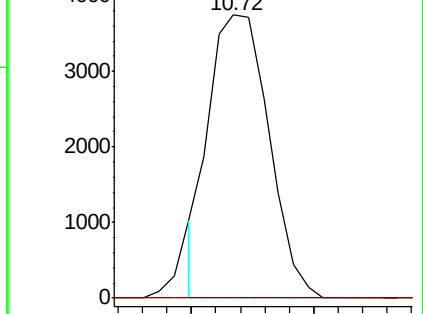
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.236 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

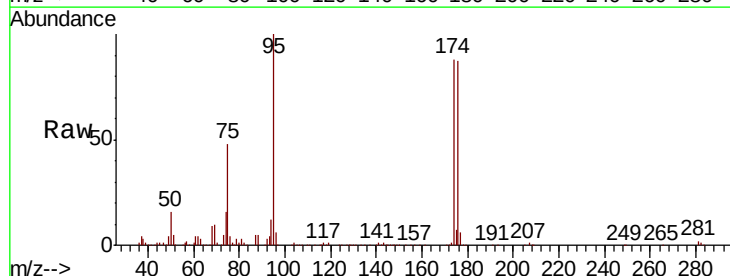
Tgt Ion: 95 Resp: 127558

Ion Ratio Lower Upper

95 100

174 94.3 0.0 191.2

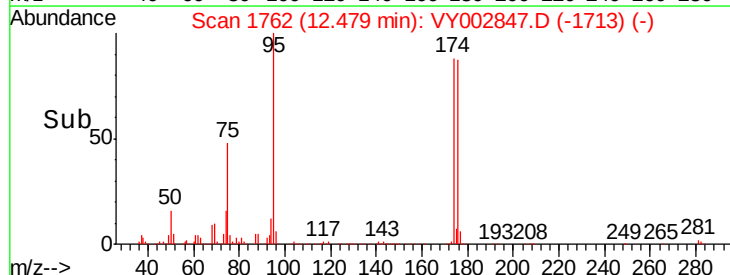
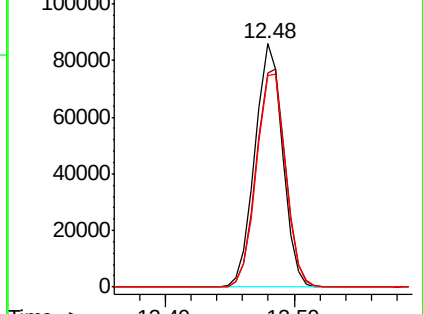
176 92.1 0.0 188.8

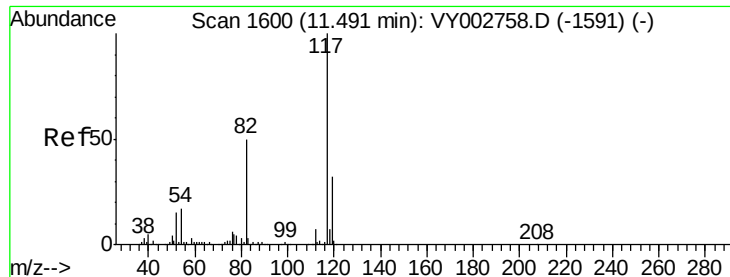


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

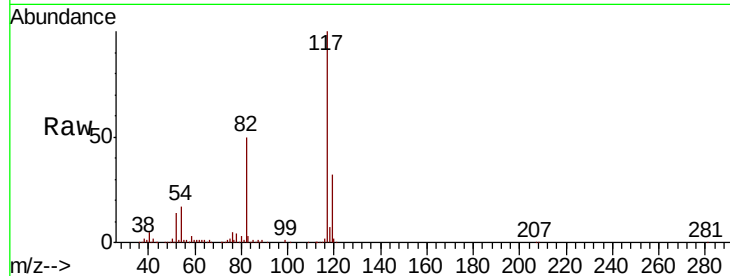




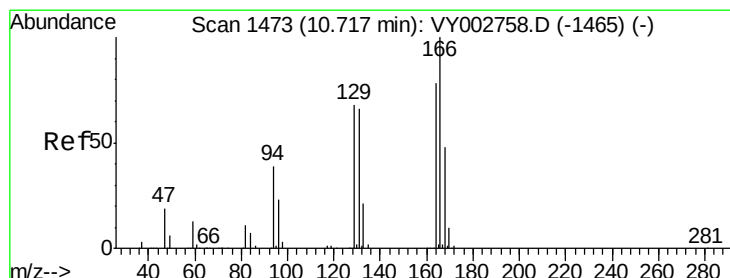
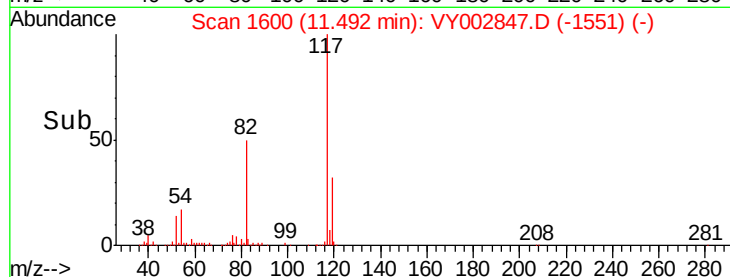
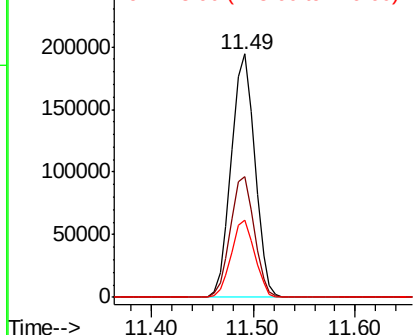
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY002847.D
Acq: 05 Jun 2020 14:38

Instrument :
MSVOA_Y
ClientSampleId :
S39-HSVE2-IDW01

Tot Ion:117 Resp: 310008
Ion Ratio Lower Upper
117 100
82 49.6 40.2 60.4
119 31.9 25.8 38.8

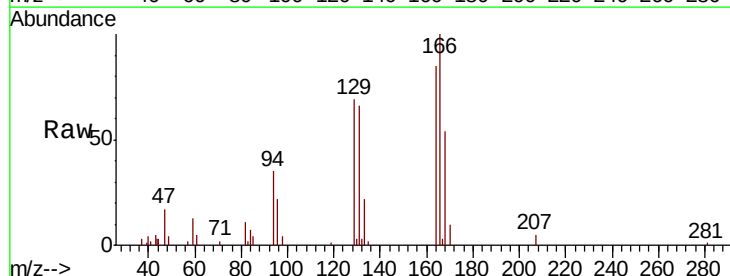


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

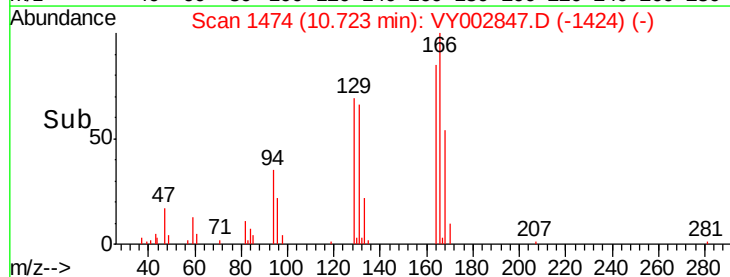
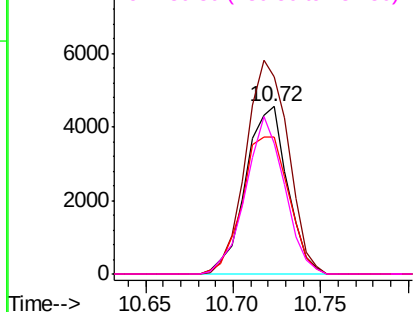


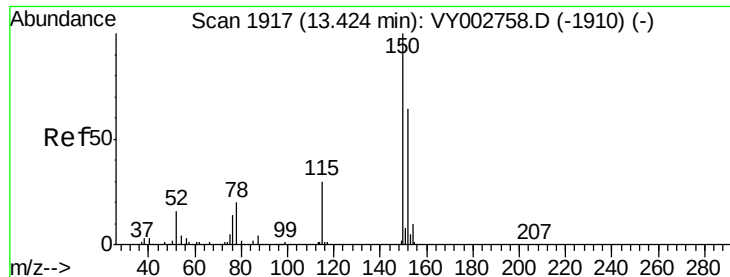
#64
Tetrachloroethene
Concen: 2.680 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VY002847.D
Acq: 05 Jun 2020 14:38

Tgt Ion:164 Resp: 7551
Ion Ratio Lower Upper
164 100
166 117.9 102.3 153.5
129 81.5 69.4 104.2
131 77.8 67.8 101.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

S39-HSVE2-IDW01

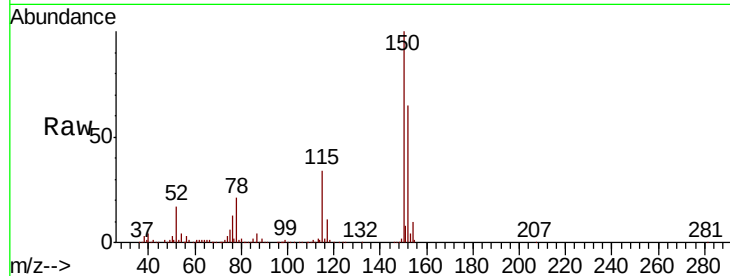
Tot Ion:152 Resp: 151220

Ion Ratio Lower Upper

152 100

115 52.7 27.0 81.0

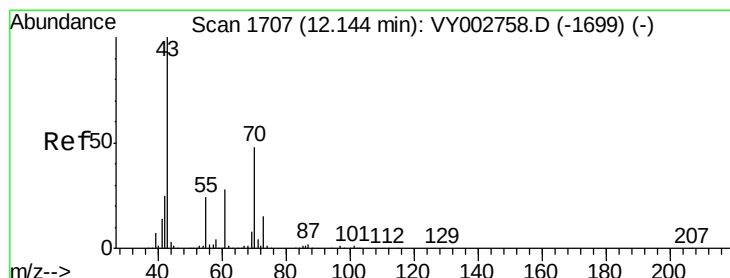
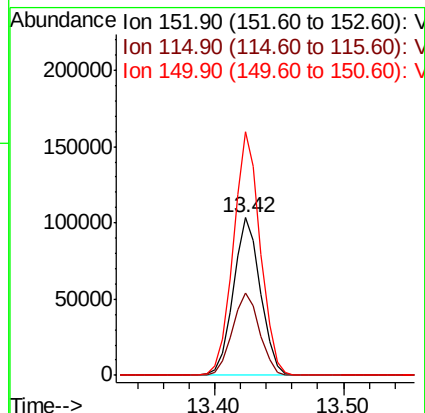
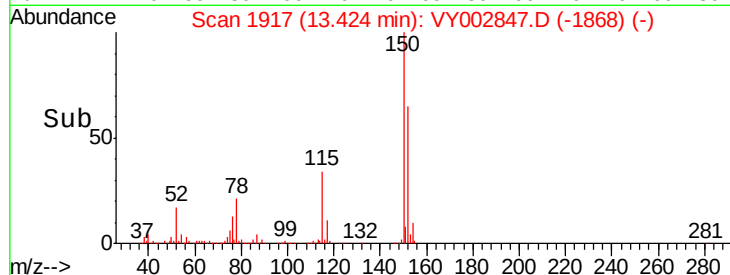
150 153.8 0.0 344.8



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-amyl acetate

Concen: 1.170 ug/l

RT: 12.11 min Scan# 1701

Delta R.T. -0.04 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Tgt Ion: 43 Resp: 2908

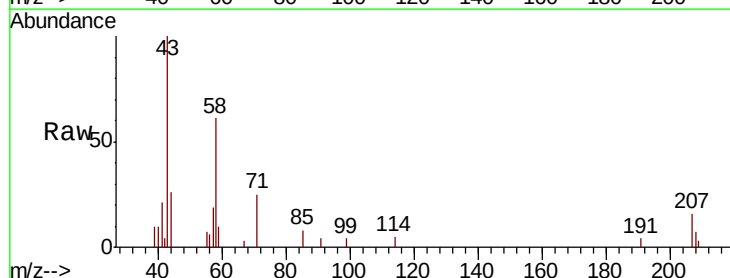
Ion Ratio Lower Upper

43 100

70 0.0 37.7 56.5#

55 7.7 19.8 29.6#

61 0.0 21.7 32.5#

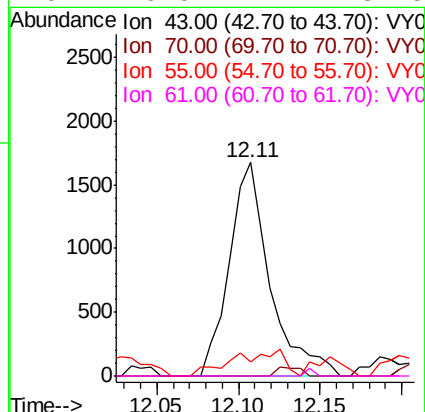
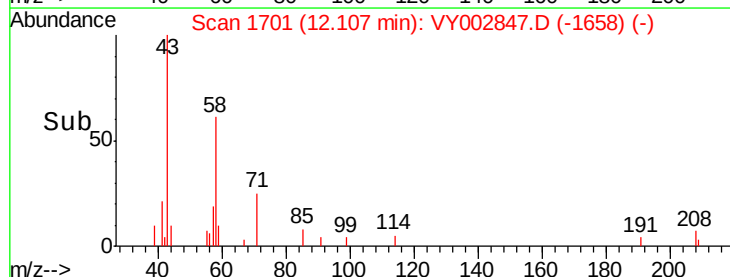


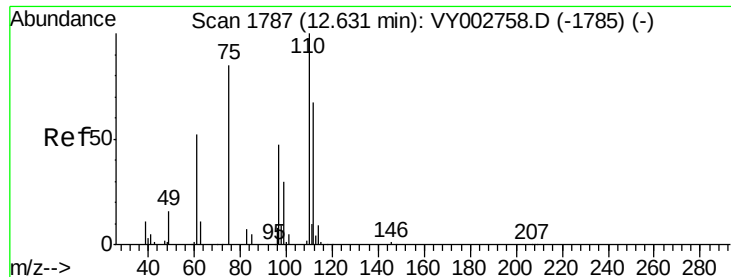
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#76

1,2,3-Trichloropropane

Concen: 44.903 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

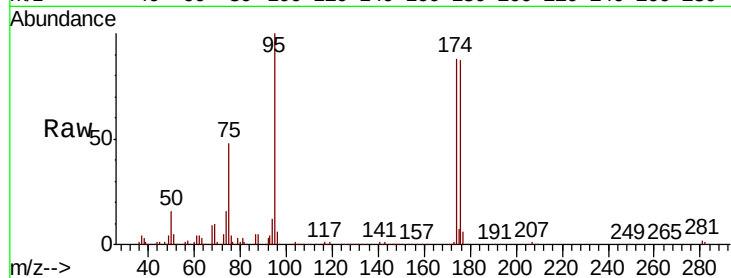
S39-HSVE2-IDW01

Tot Ion: 75 Resp: 61184

Ion Ratio Lower Upper

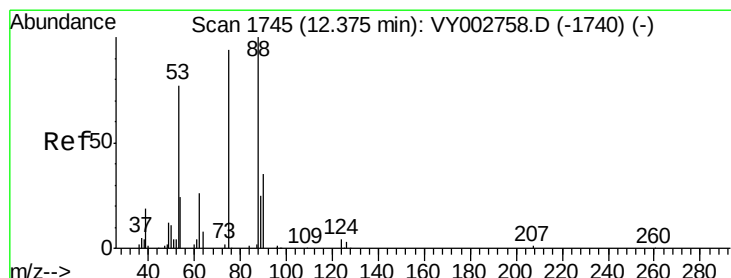
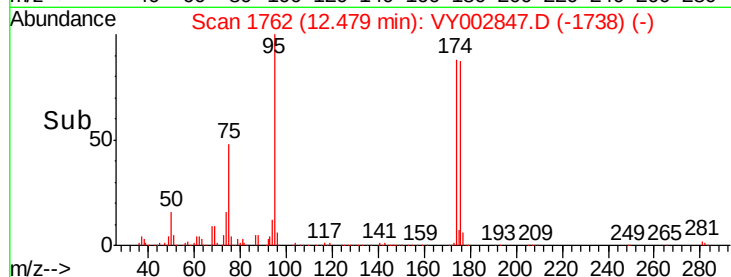
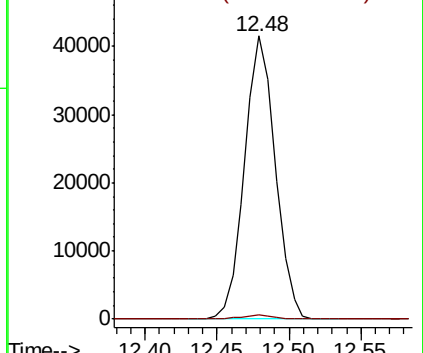
75 100

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: 84.596 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002847.D

Acq: 05 Jun 2020 14:38

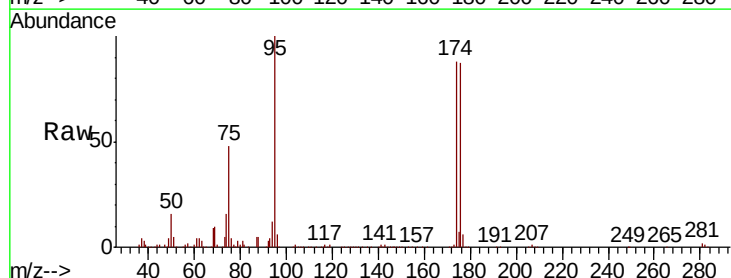
Tgt Ion: 75 Resp: 61184

Ion Ratio Lower Upper

75 100

53 0.0 64.0 96.0#

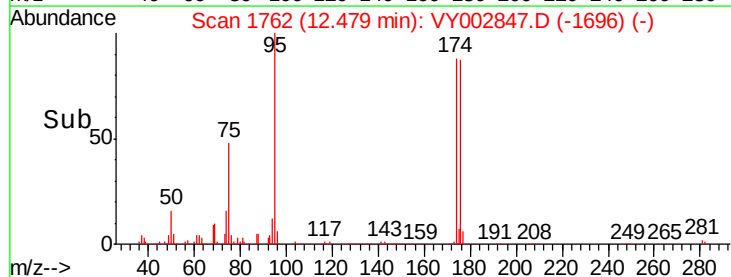
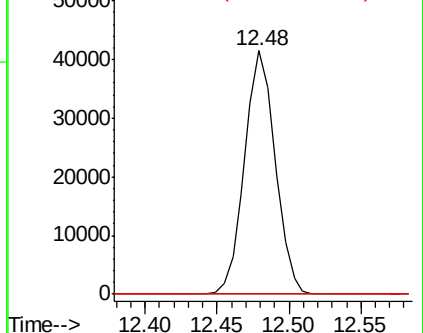
89 0.0 37.4 56.2#

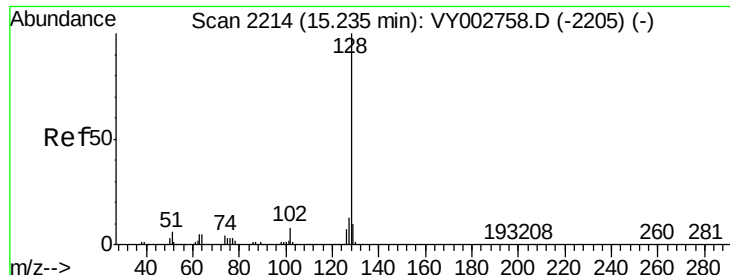


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

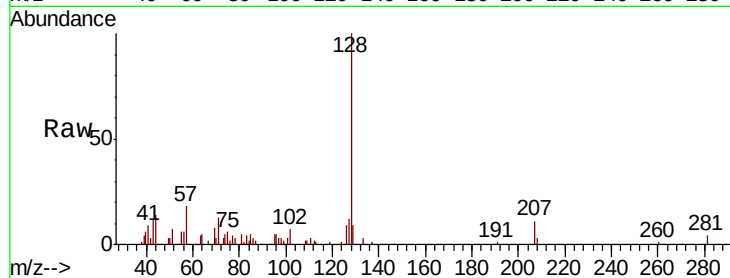




#95
Naphthalene
Concen: 1.106 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY002847.D
Acq: 05 Jun 2020 14:38

Instrument :
MSVOA_Y
ClientSampleId :
S39-HSVE2-IDW01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.3	15.5
129	9.9	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

