

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070220\
 Data File : VY003097.D
 Acq On : 02 Jul 2020 19:57
 Operator : SY/MD
 Sample : L3211-05
 Misc : 9.02G/5ML/MSVOA Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-5 11-11.5

Quant Time: Jul 03 02:40:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 30 04:11:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	300123	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	472321	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	430757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	217256	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	159744	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
35) Dibromofluoromethane	7.72	113	155530	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
50) Toluene-d8	10.18	98	556890	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	
62) 4-Bromofluorobenzene	12.48	95	189667	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	

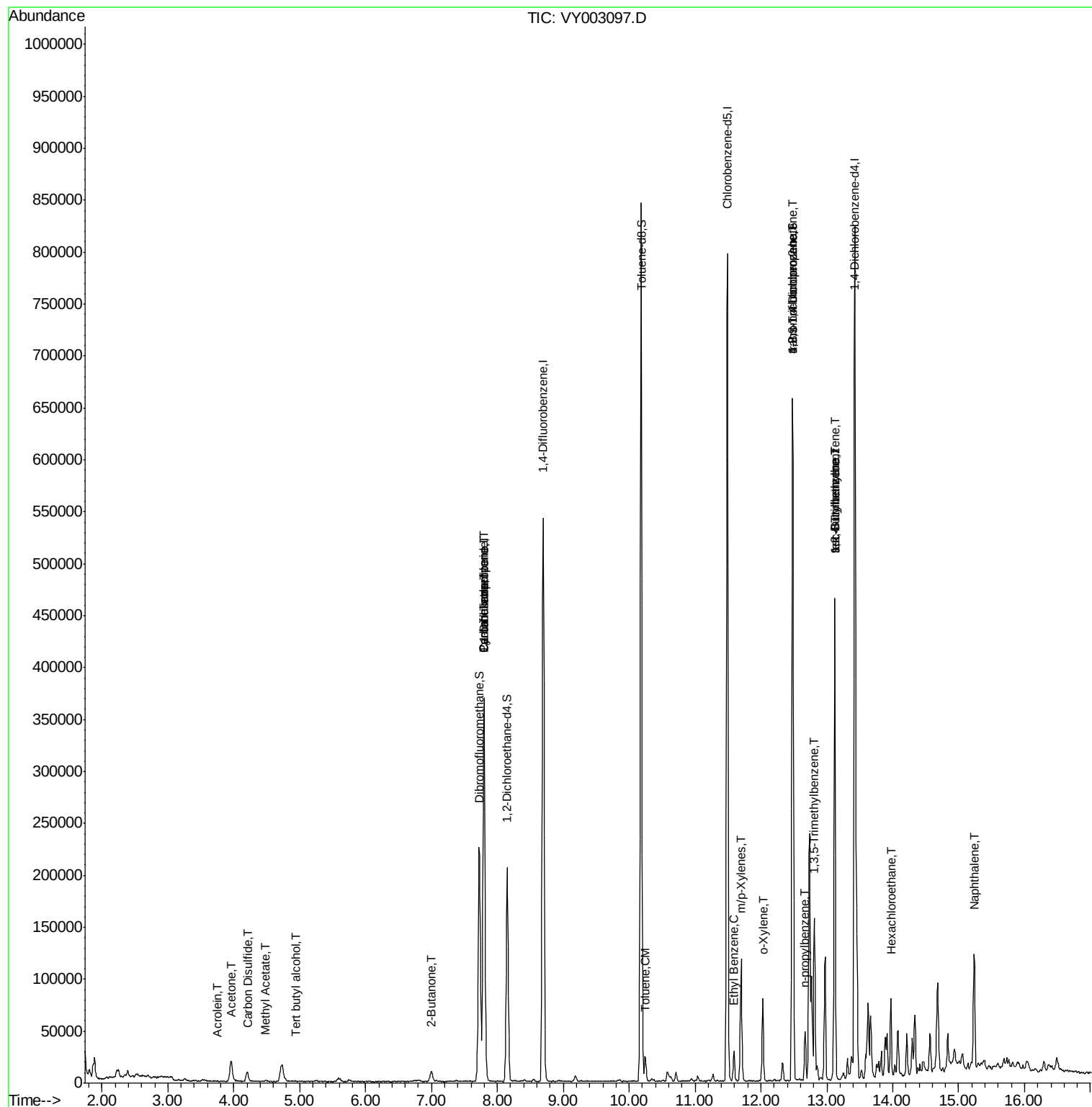
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.94	59	387	1.274	ug/l #	73
13) Acrolein	3.74	56	286	1.048	ug/l #	42
16) Acetone	3.96	43	33375	47.474	ug/l	94
17) Carbon Disulfide	4.20	76	16814	2.021	ug/l	98
18) Methyl Acetate	4.49	43	2242	1.184	ug/l	91
20) Methylene Chloride	4.72	84	13294	Below Cal	#	84
25) 2-Butanone	7.00	43	15138	13.555	ug/l	93
31) Cyclohexane	7.80	56	5766	1.100	ug/l #	6
36) 1,1-Dichloropropene	7.80	75	20719	4.554	ug/l #	50
38) Carbon Tetrachloride	7.80	117	26955	5.694	ug/l #	17
52) Toluene	10.25	92	8951	1.142	ug/l	97
67) Ethyl Benzene	11.59	91	19664	1.265	ug/l	94
68) m/p-Xylenes	11.70	106	35897	6.207	ug/l	97
69) o-Xylene	12.03	106	21468	3.939	ug/l	95
76) 1,2,3-Trichloropropane	12.48	75	95963	44.630	ug/l #	100
78) n-propylbenzene	12.67	91	34267	2.004	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	75444	6.323	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.48	75	95963	86.832	ug/l #	12
83) tert-Butylbenzene	13.12	119	28687	2.738	ug/l #	62
84) 1,2,4-Trimethylbenzene	13.12	105	235530	19.590	ug/l	98
85) sec-Butylbenzene	13.12	105	235530	16.310	ug/l #	55
90) Hexachloroethane	13.97	117	4001	1.506	ug/l #	4
95) Naphthalene	15.23	128	88696	10.702	ug/l	98

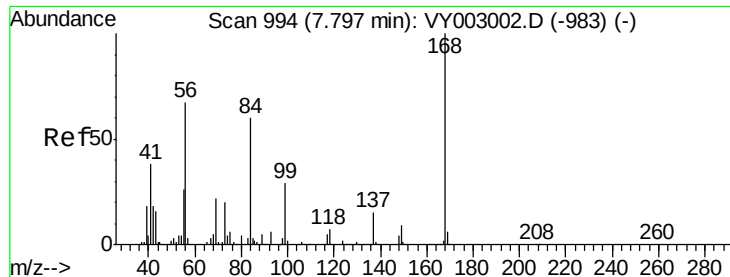
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB-5_11-11.5

Quant Time: Jul 03 02:40:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 30 04:11:35 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

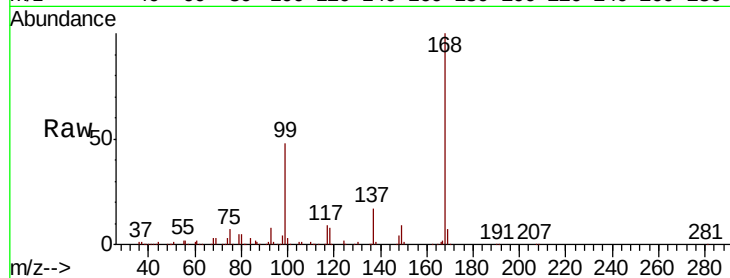
SB-5_11-11.5

Tot Ion:168 Resp: 300123

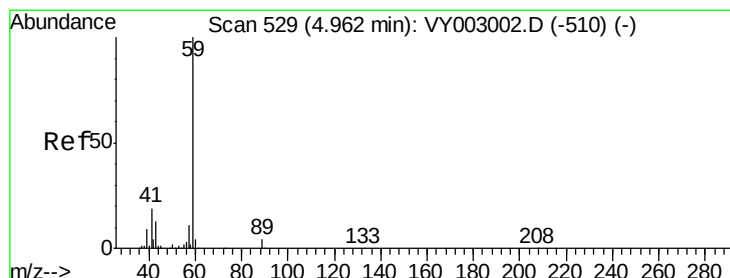
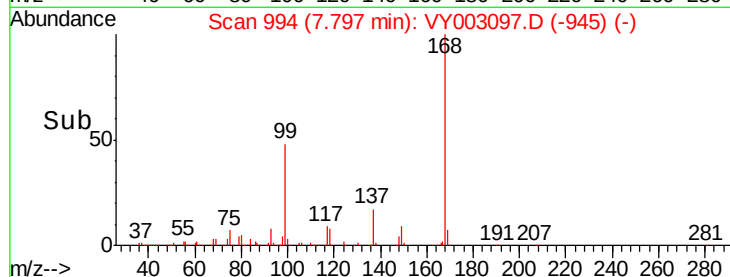
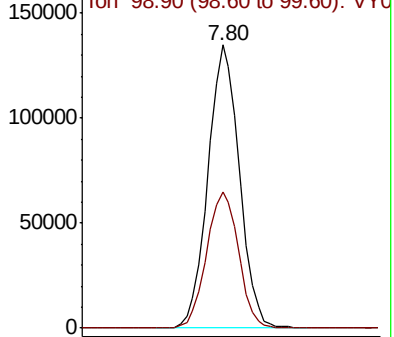
Ion Ratio Lower Upper

168 100

99 47.9 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003097.D (-945) (-)



#11

Tert butyl alcohol

Concen: 1.274 ug/l

RT: 4.94 min Scan# 526

Delta R.T. -0.02 min

Lab File: VY003097.D

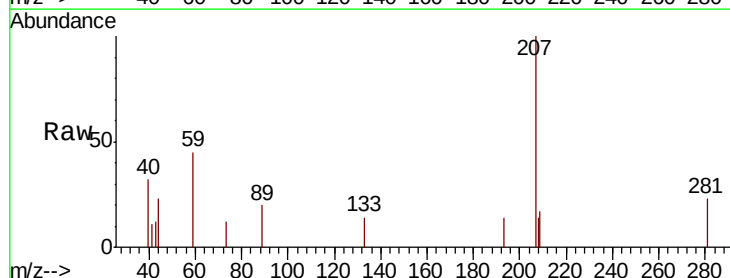
Acq: 02 Jul 2020 19:57

Tgt Ion: 59 Resp: 387

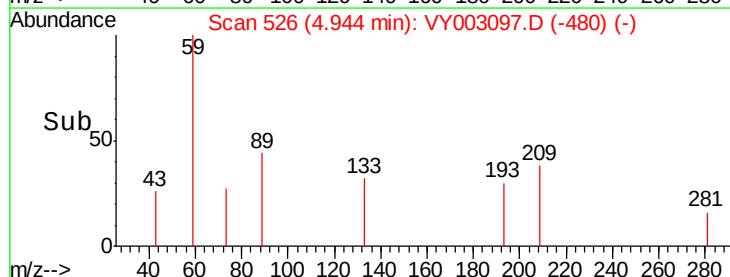
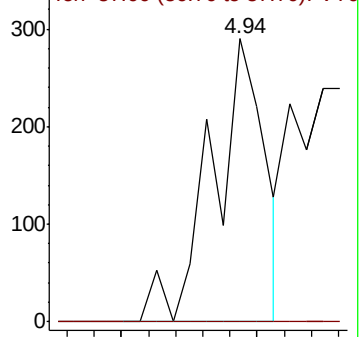
Ion Ratio Lower Upper

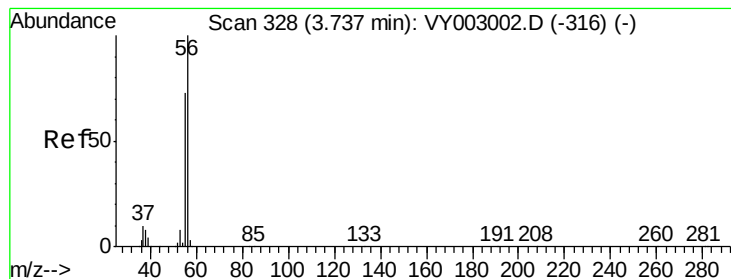
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY003097.D (-480) (-)





#13

Acrolein

Concen: 1.048 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

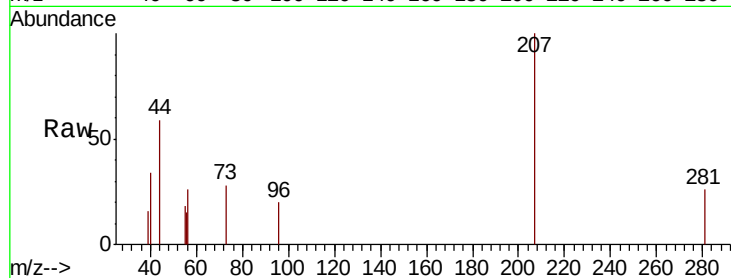
SB-5_11-11.5

Tot Ion: 56 Resp: 286

Ion Ratio Lower Upper

56 100

55 22.7 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

250

200

150

100

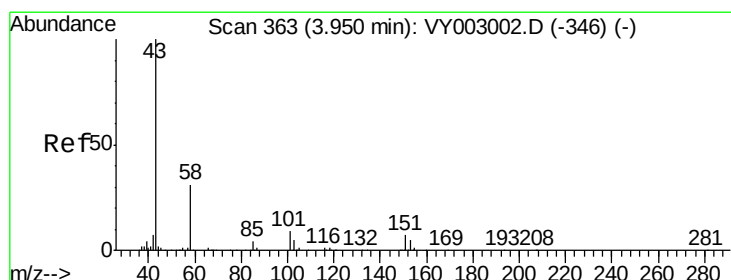
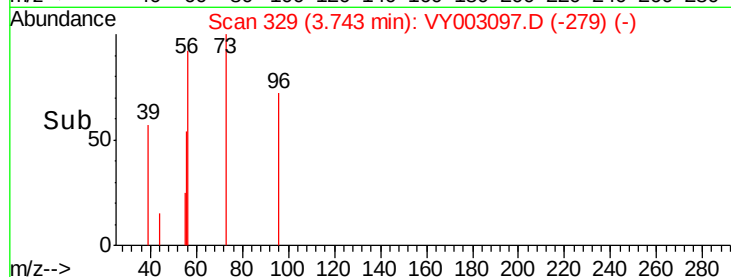
50

0

3.70

3.74

Time-->



#16

Acetone

Concen: 47.474 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY003097.D

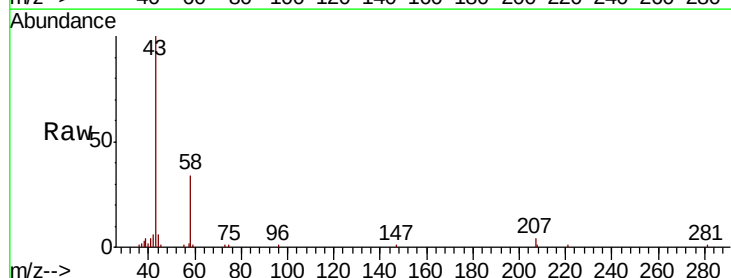
Acq: 02 Jul 2020 19:57

Tgt Ion: 43 Resp: 33375

Ion Ratio Lower Upper

43 100

58 34.4 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

10000

5000

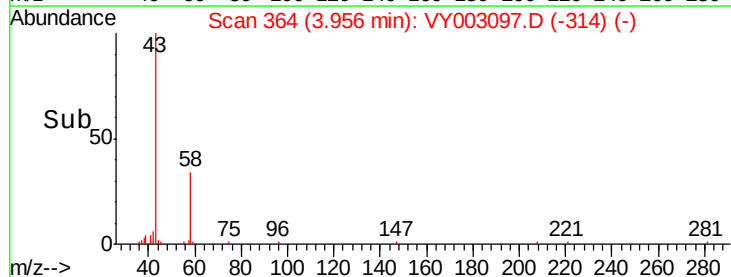
0

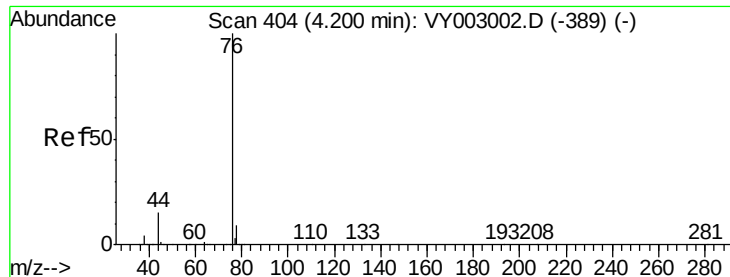
3.90

3.96

4.00

Time-->





#17

Carbon Disulfide

Concen: 2.021 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

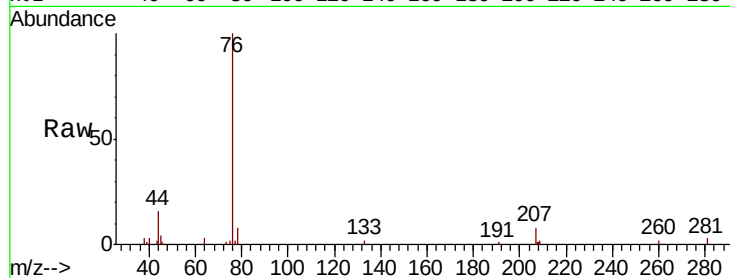
SB-5_11-11.5

Tot Ion: 76 Resp: 16814

Ion Ratio Lower Upper

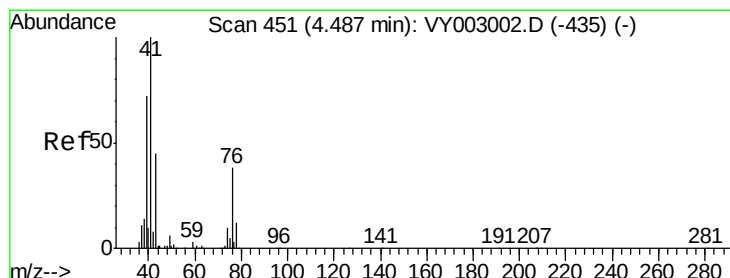
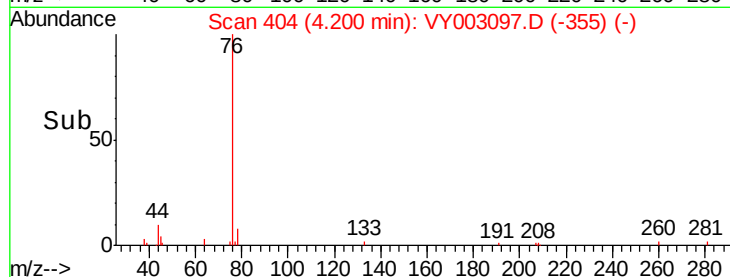
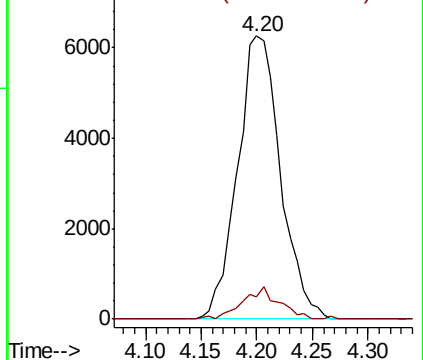
76 100

78 8.0 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#18

Methyl Acetate

Concen: 1.184 ug/l

RT: 4.49 min Scan# 451

Delta R.T. -0.00 min

Lab File: VY003097.D

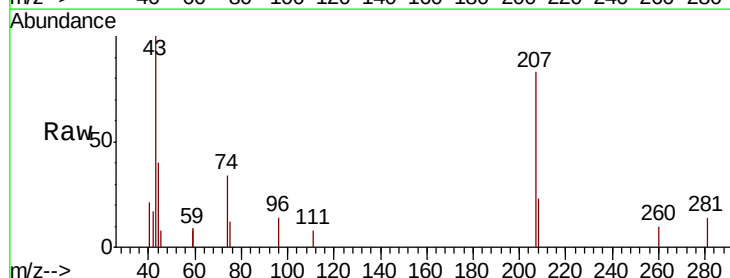
Acq: 02 Jul 2020 19:57

Tgt Ion: 43 Resp: 2242

Ion Ratio Lower Upper

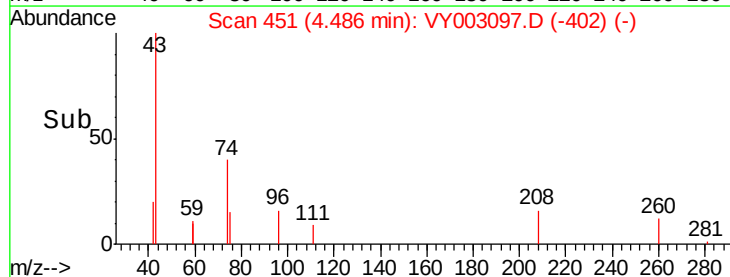
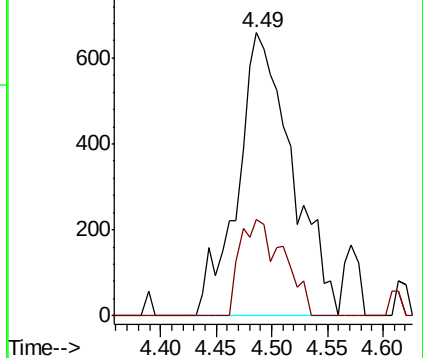
43 100

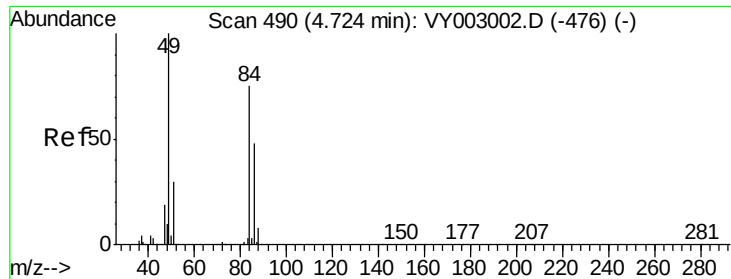
74 26.9 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

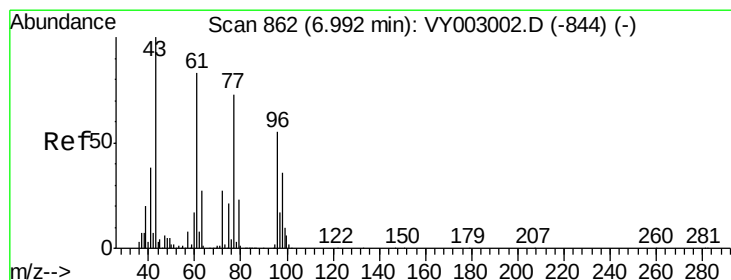
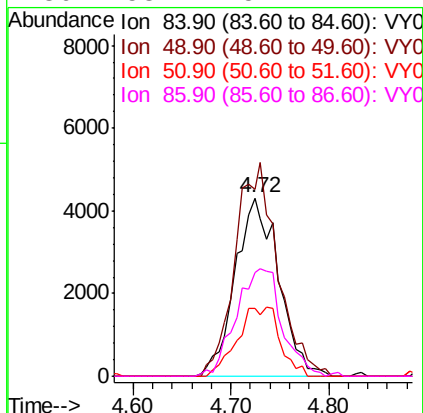
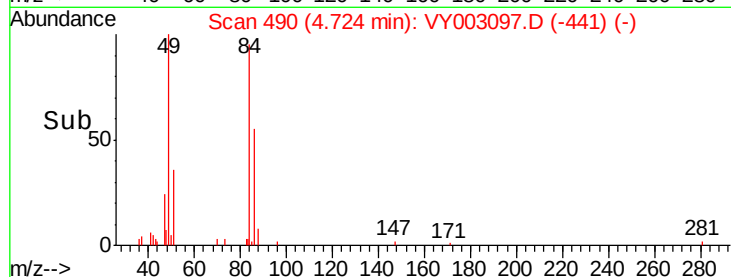
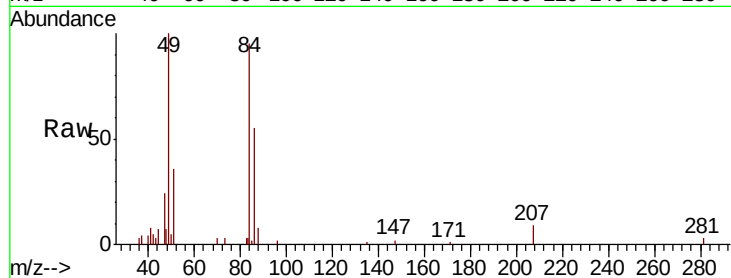




#20
Methylene Chloride
Concen: Below Cal
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

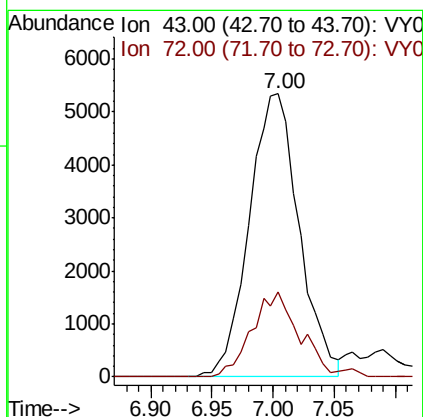
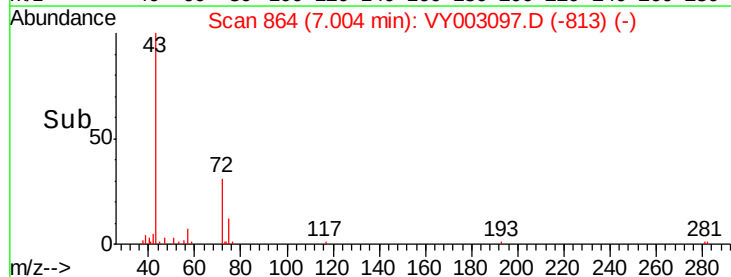
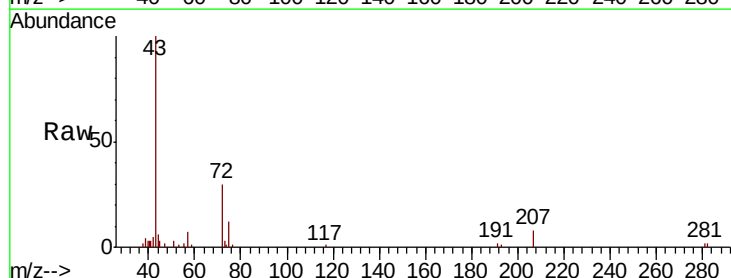
Instrument :
MSVOA_Y
ClientSampleId :
SB-5_11-11.5

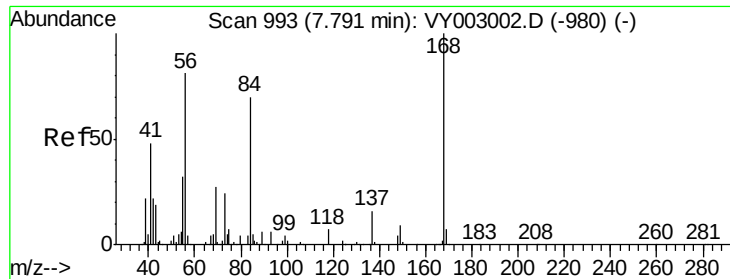
Tot Ion: 84 Resp: 13294
Ion Ratio Lower Upper
84 100
49 105.0 106.8 160.2#
51 38.3 32.0 48.0
86 58.2 51.4 77.2



#25
2-Butanone
Concen: 13.555 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.01 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

Tgt Ion: 43 Resp: 15138
Ion Ratio Lower Upper
43 100
72 30.2 21.4 32.0

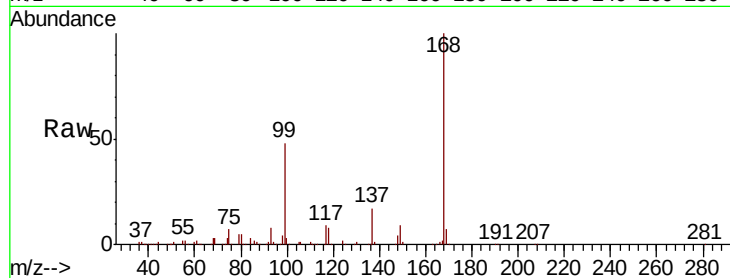




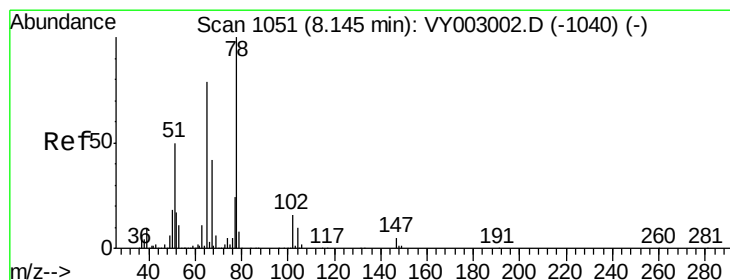
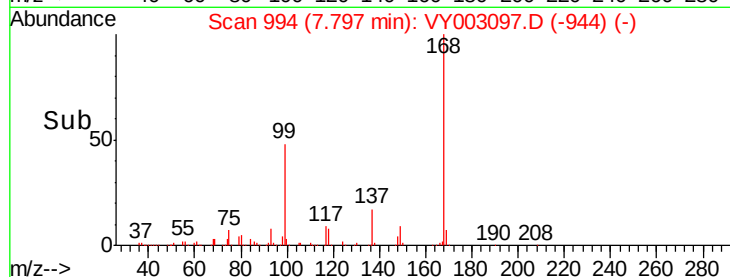
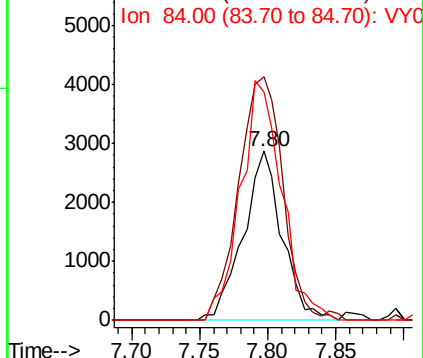
#31
Cyclohexane
Concen: 1.100 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.01 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

Instrument :
MSVOA_Y
ClientSampleId :
SB-5_11-11.5

Tot Ion: 56 Resp: 5766
Ion Ratio Lower Upper
56 100
69 144.0 27.0 40.4#
84 135.2 68.1 102.1#

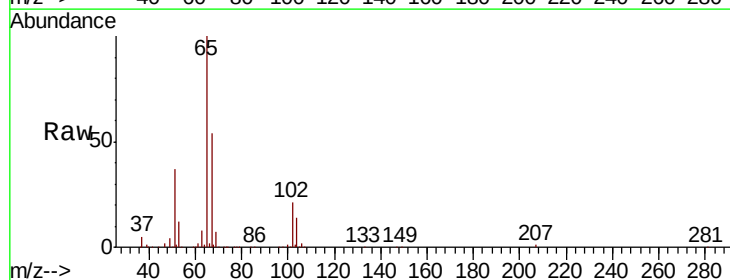


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

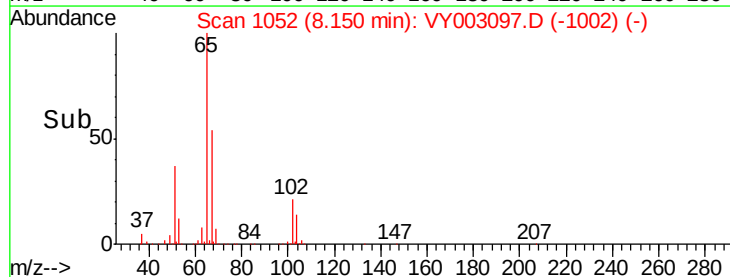
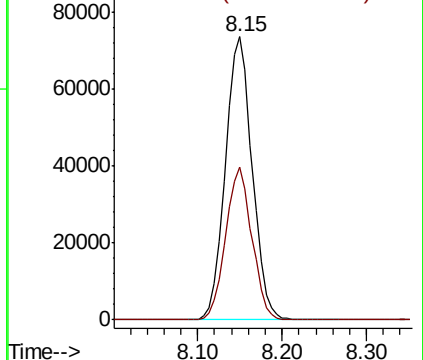


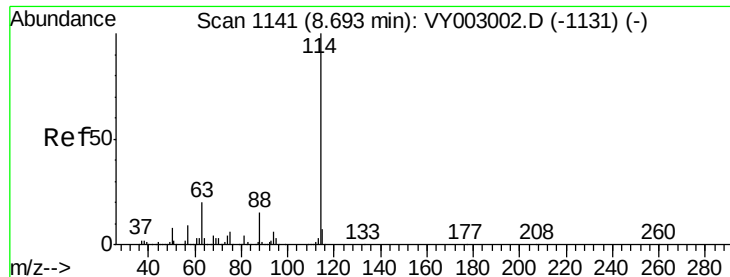
#33
1,2-Dichloroethane-d4
Concen: 53.591 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

Tgt Ion: 65 Resp: 159744
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.6



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: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

SB-5_11-11.5

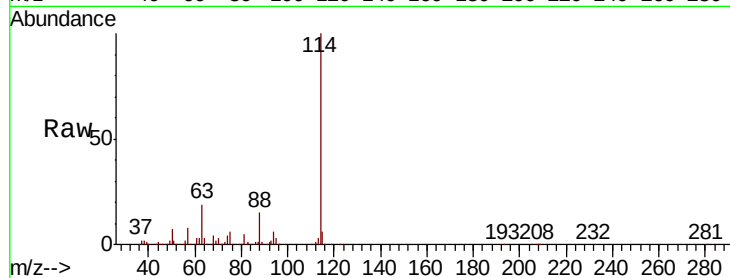
Tot Ion:114 Resp: 472321

Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.6

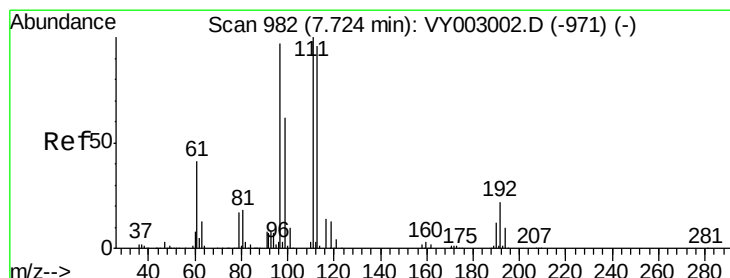
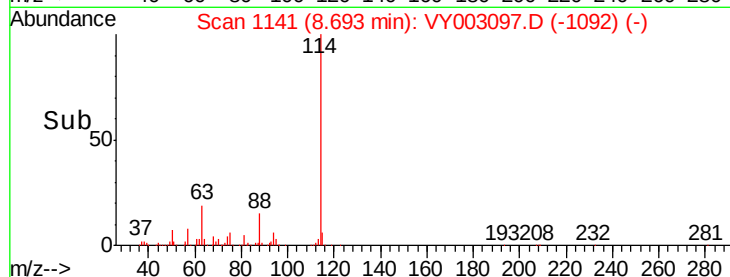
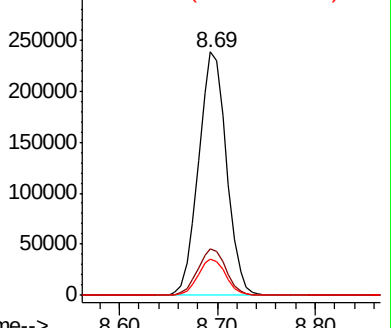
88 14.9 0.0 30.0



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: 52.786 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.00 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

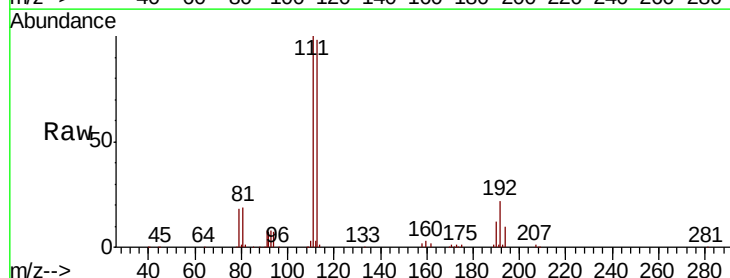
Tgt Ion:113 Resp: 155530

Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

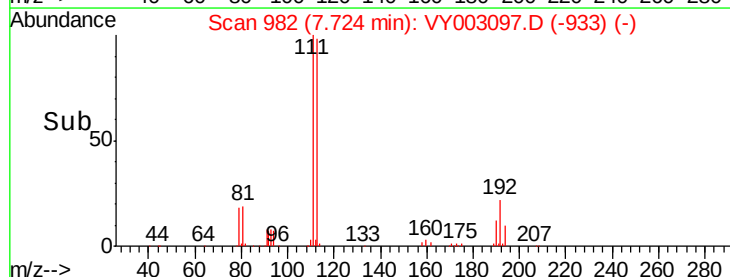
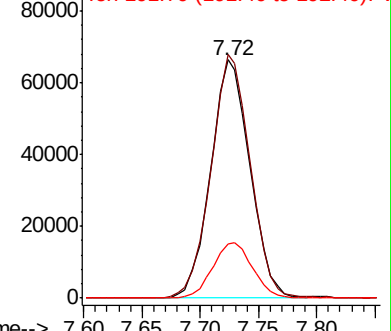
192 23.8 18.1 27.1

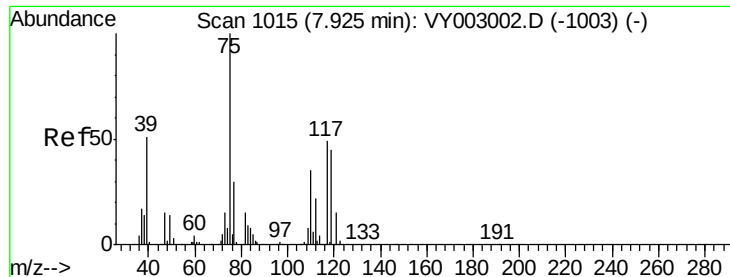


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.554 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

SB-5_11-11.5

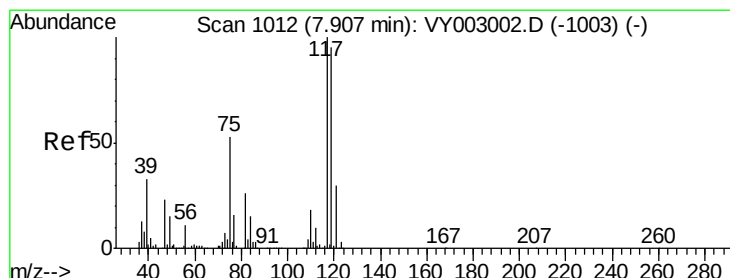
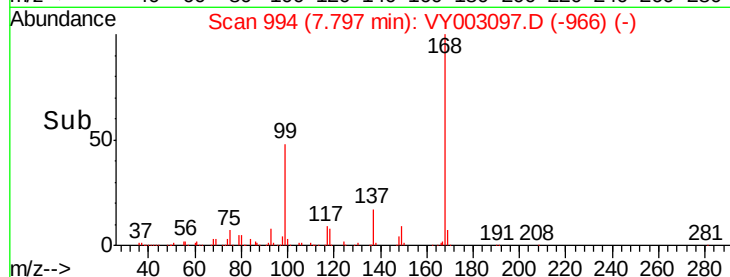
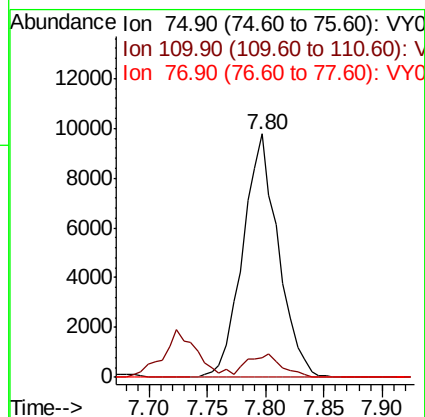
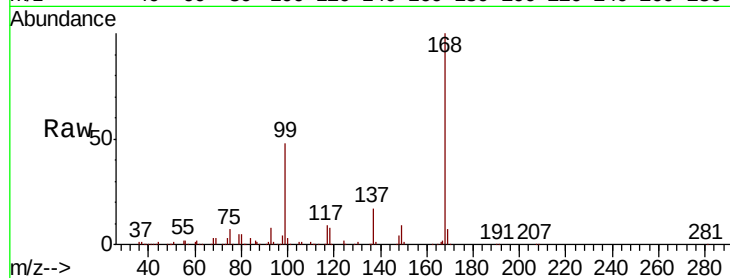
Tot Ion: 75 Resp: 20719

Ion Ratio Lower Upper

75 100

110 9.2 17.1 51.2#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.694 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

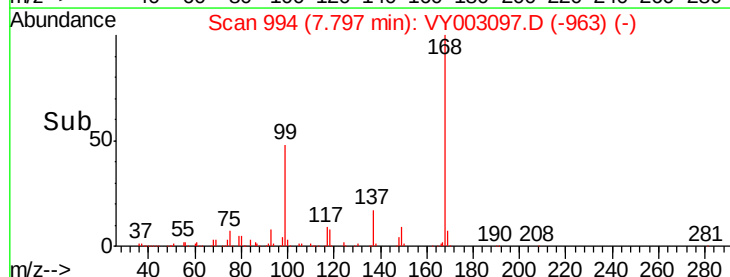
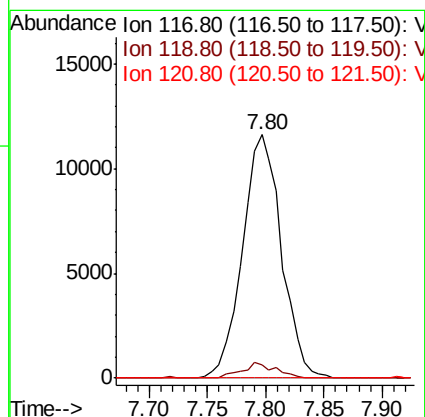
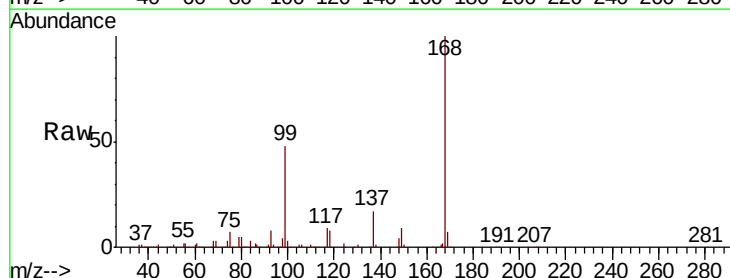
Tgt Ion: 117 Resp: 26955

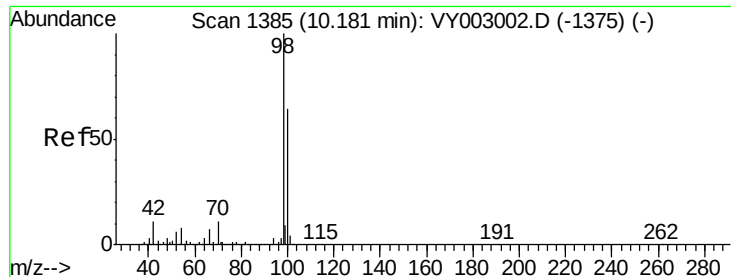
Ion Ratio Lower Upper

117 100

119 5.3 75.7 113.5#

121 0.0 23.9 35.9#





#50

Toluene-d8

Concen: 50.734 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

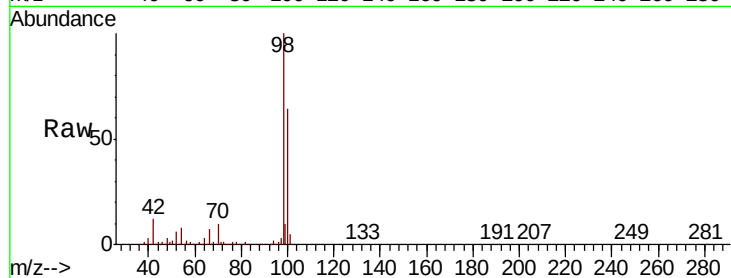
SB-5_11-11.5

Tot Ion: 98 Resp: 556890

Ion Ratio Lower Upper

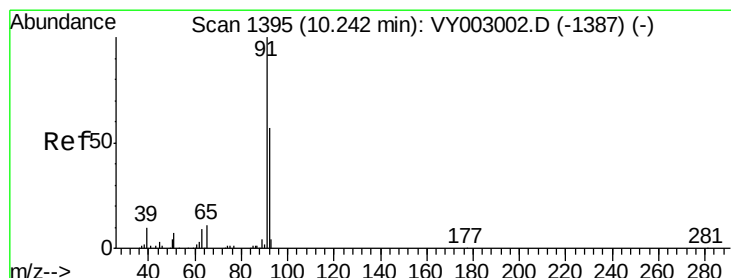
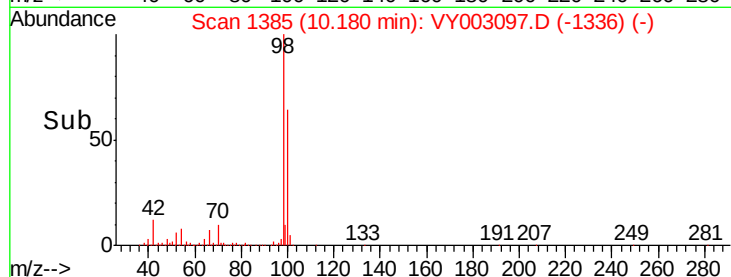
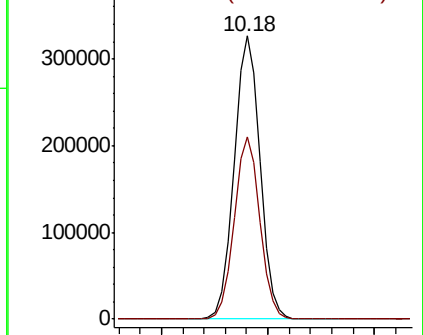
98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#52

Toluene

Concen: 1.142 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.01 min

Lab File: VY003097.D

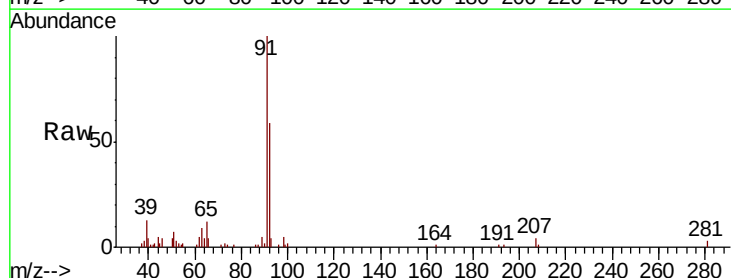
Acq: 02 Jul 2020 19:57

Tgt Ion: 92 Resp: 8951

Ion Ratio Lower Upper

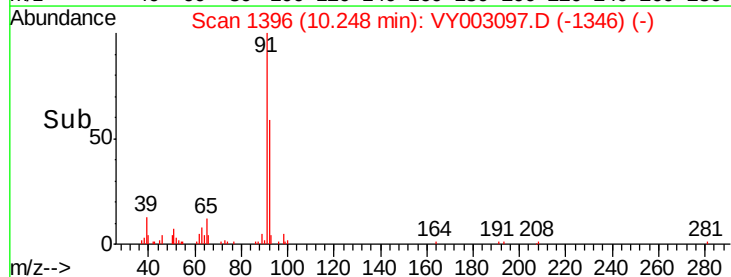
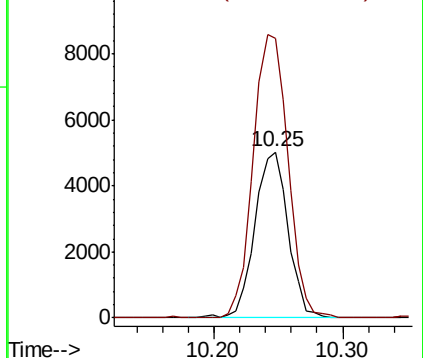
92 100

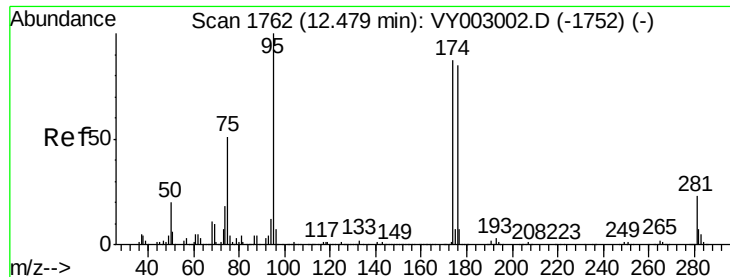
91 178.3 139.6 209.4



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0

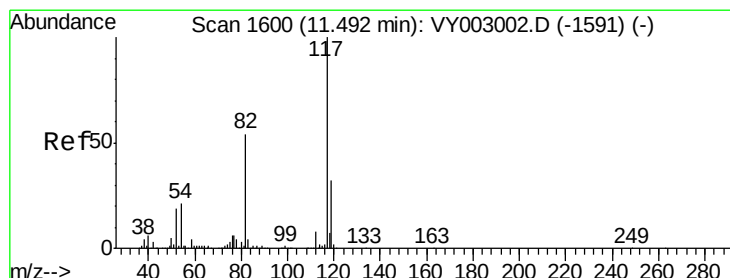
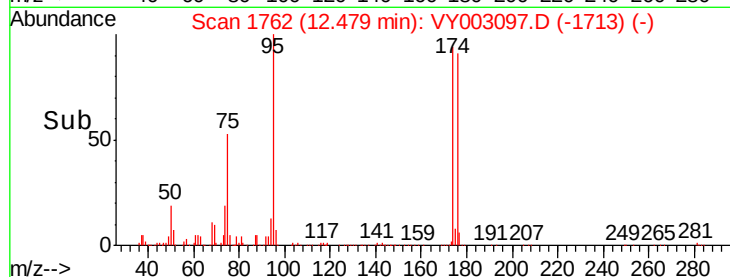
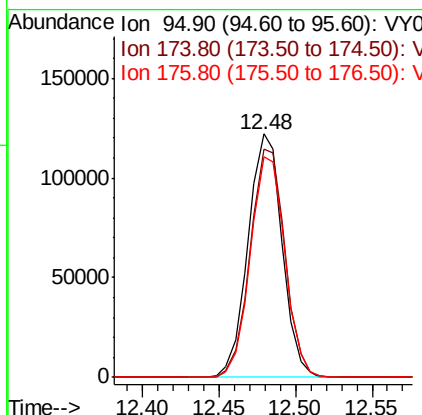
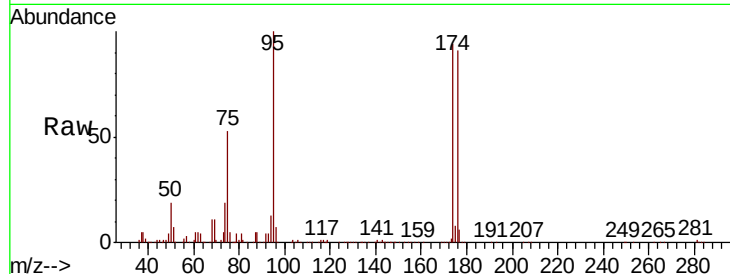




#62
4-Bromofluorobenzene
Concen: 49.088 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

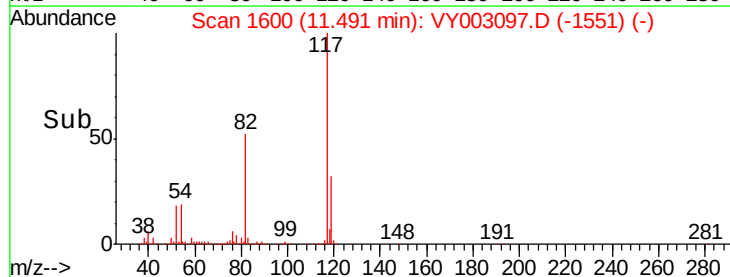
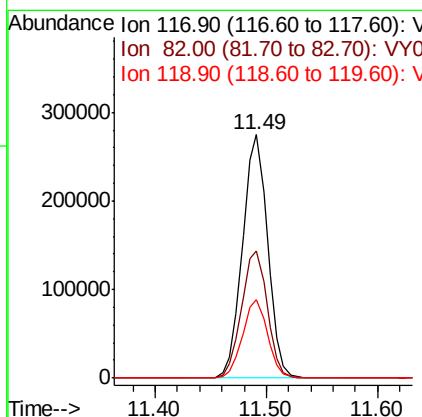
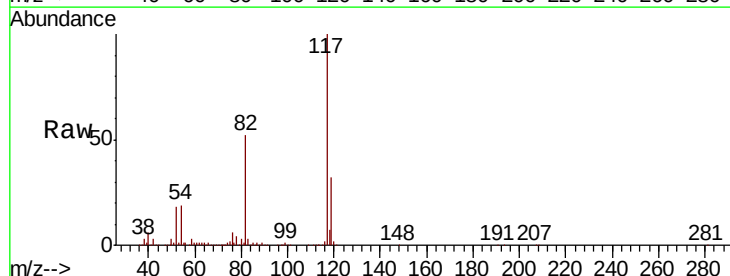
Instrument :
MSVOA_Y
ClientSampleId :
SB-5_11-11.5

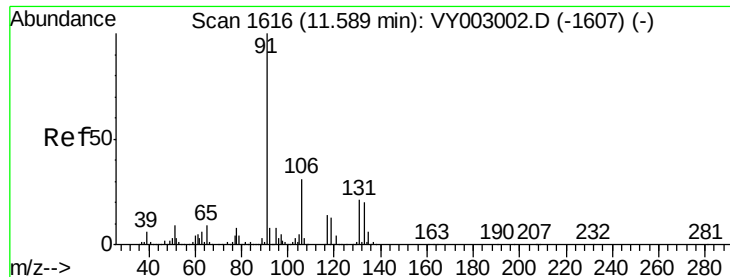
Tot Ion	Ratio	Lower	Upper
95	100		
174	95.3	0.0	184.8
176	91.8	0.0	183.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.4	43.0	64.6
119	32.2	25.8	38.8





#67

Ethyl Benzene

Concen: 1.265 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.00 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

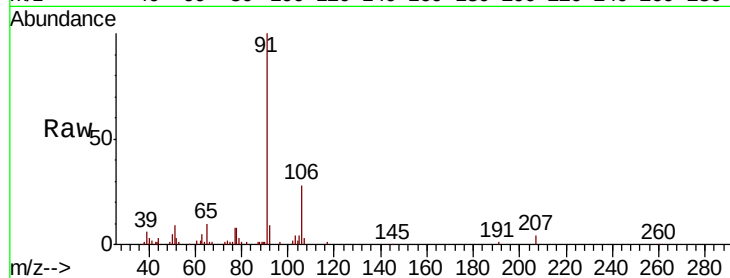
SB-5_11-11.5

Tot Ion: 91 Resp: 19664

Ion Ratio Lower Upper

91 100

106 27.7 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VY003002.D (-1607) (-)

Ion 106.00 (105.70 to 106.70): VY003002.D (-1607) (-)

30000

25000

20000

15000

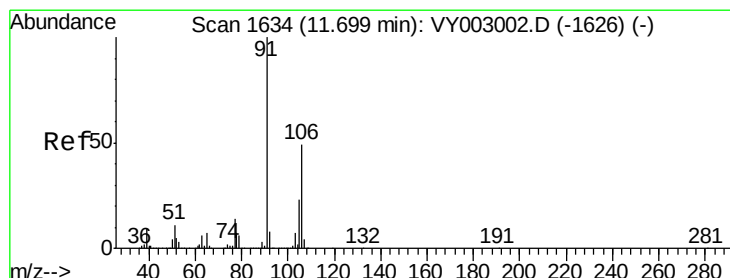
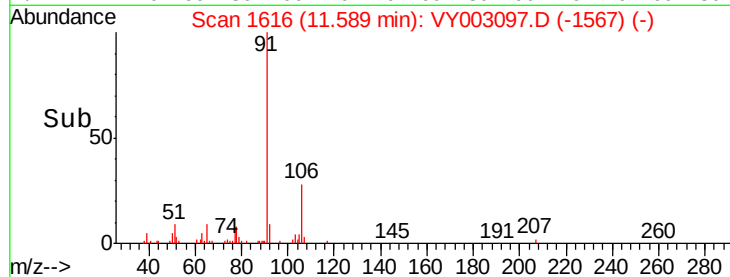
10000

5000

0

11.55 11.60 11.65

Time-->



#68

m/p-Xylenes

Concen: 6.207 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VY003097.D

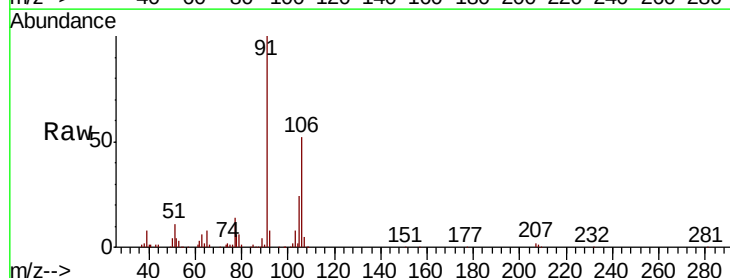
Acq: 02 Jul 2020 19:57

Tgt Ion: 106 Resp: 35897

Ion Ratio Lower Upper

106 100

91 197.9 161.9 242.9



Abundance Ion 106.00 (105.70 to 106.70): VY003002.D (-1626) (-)

Ion 91.00 (90.70 to 91.70): VY003002.D (-1626) (-)

40000

30000

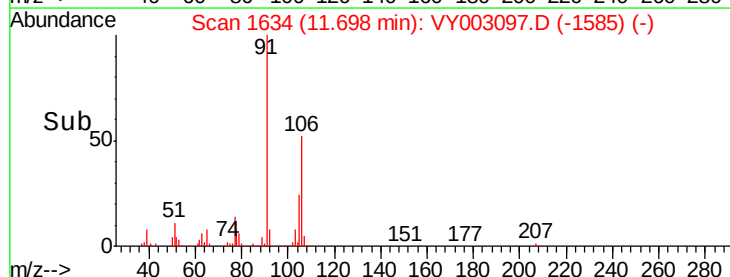
20000

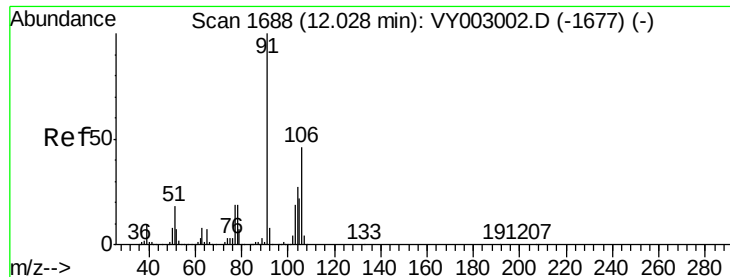
10000

0

11.60 11.65 11.70 11.75

Time-->

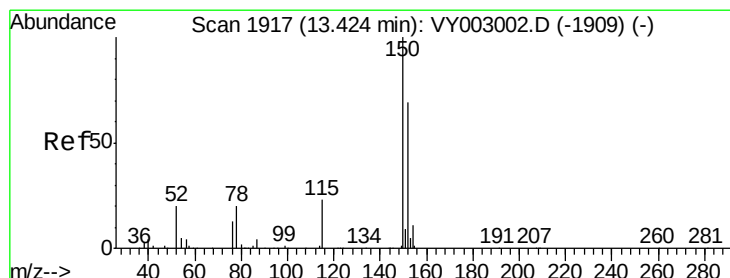
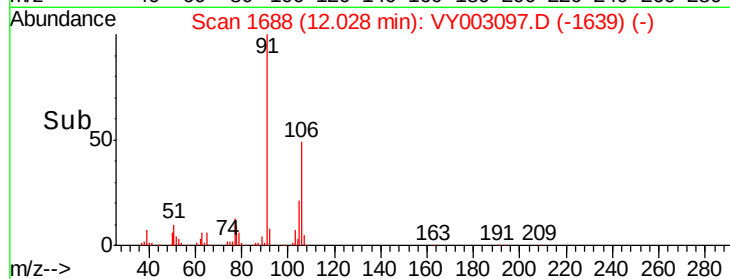
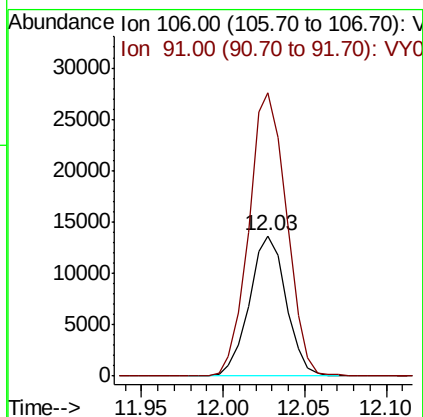
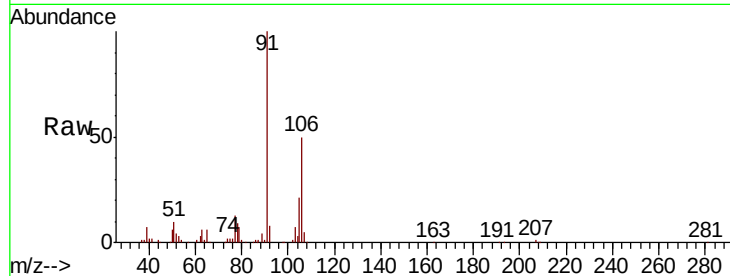




#69
o-Xylene
Concen: 3.939 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

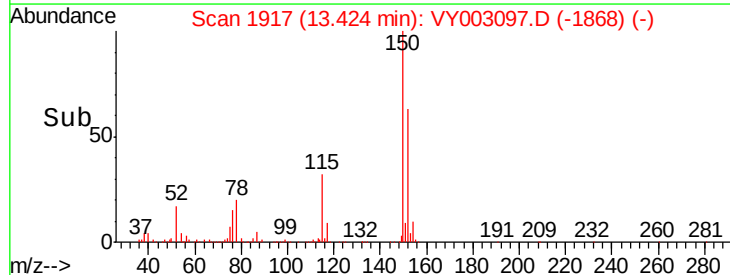
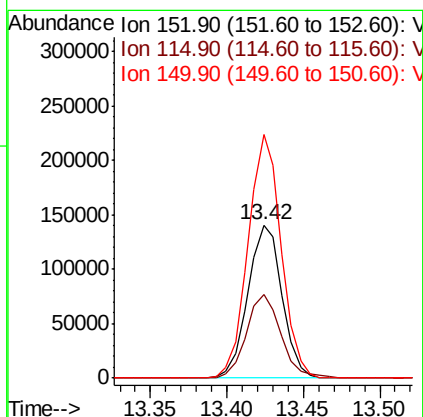
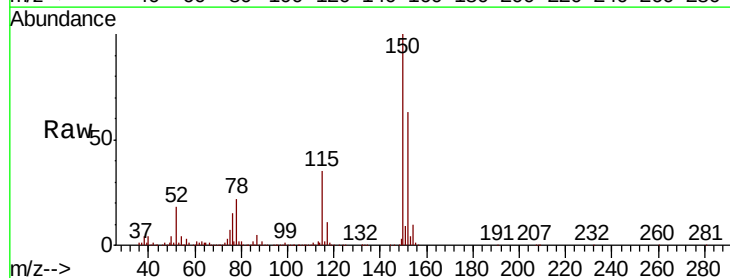
Instrument :
MSVOA_Y
ClientSampleId :
SB-5_11-11.5

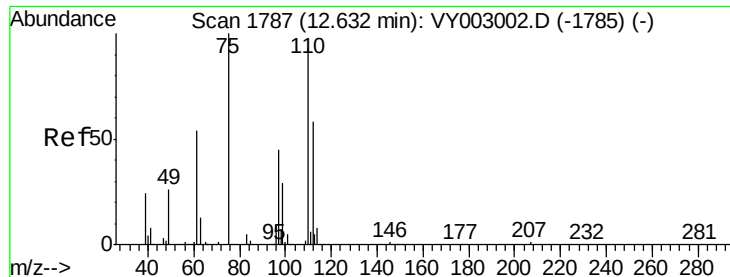
Tot Ion:106 Resp: 21468
Ion Ratio Lower Upper
106 100
91 207.3 107.9 323.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

Tgt Ion:152 Resp: 217256
Ion Ratio Lower Upper
152 100
115 54.8 27.3 81.9
150 154.2 0.0 343.4





#76

1,2,3-Trichloropropane

Concen: 44.630 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

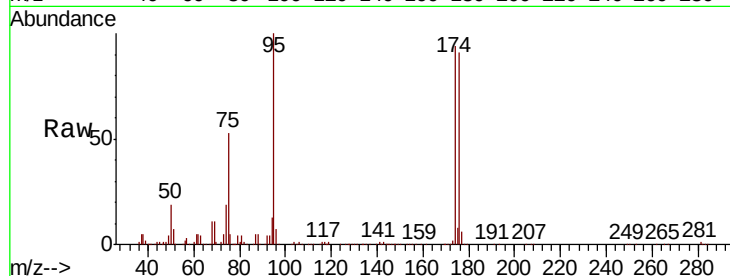
SB-5_11-11.5

Tot Ion: 75 Resp: 95963

Ion Ratio Lower Upper

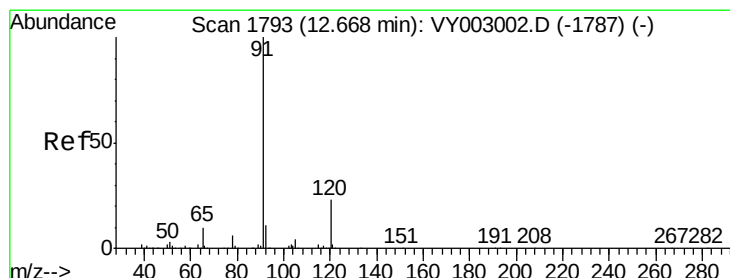
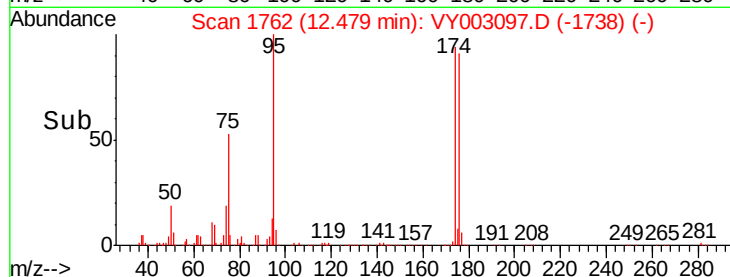
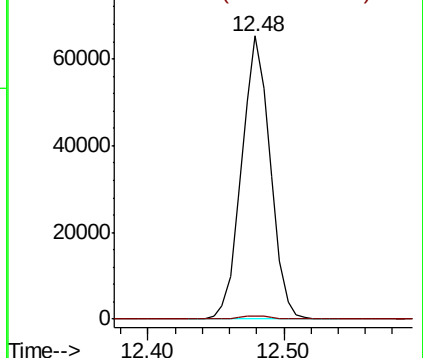
75 100

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



#78

n-propylbenzene

Concen: 2.004 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. -0.00 min

Lab File: VY003097.D

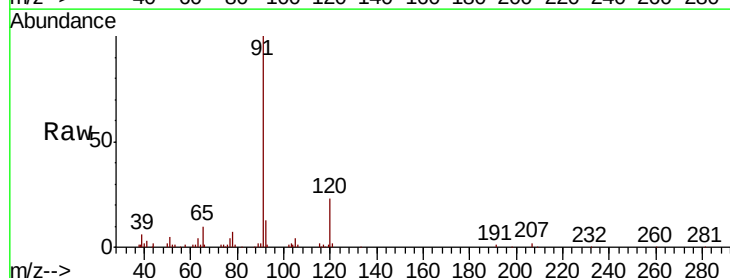
Acq: 02 Jul 2020 19:57

Tgt Ion: 91 Resp: 34267

Ion Ratio Lower Upper

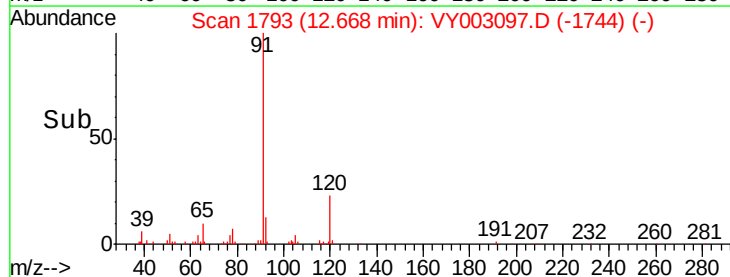
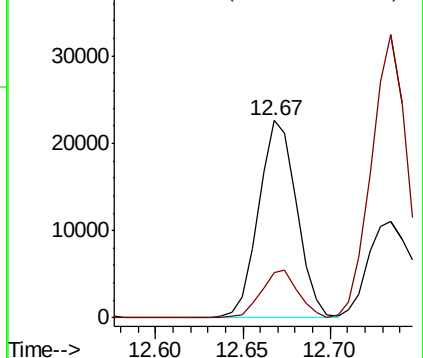
91 100

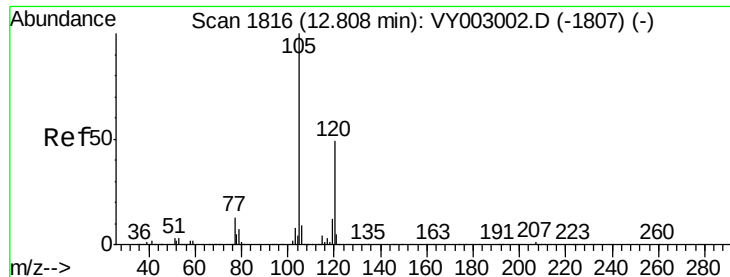
120 23.6 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 6.323 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

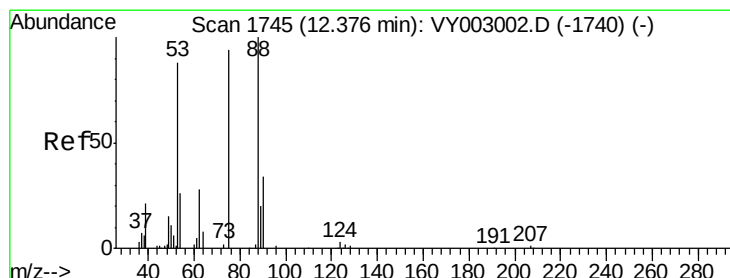
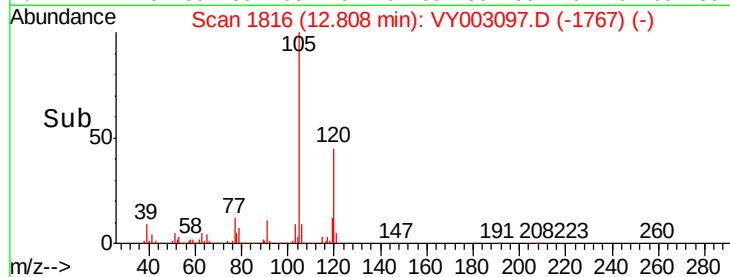
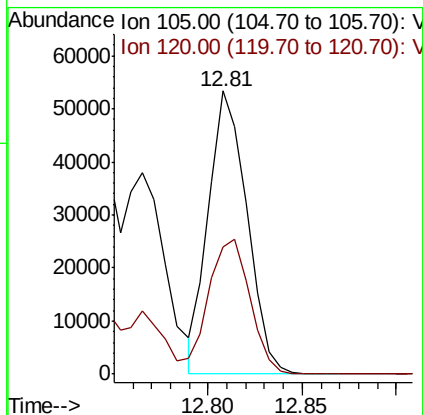
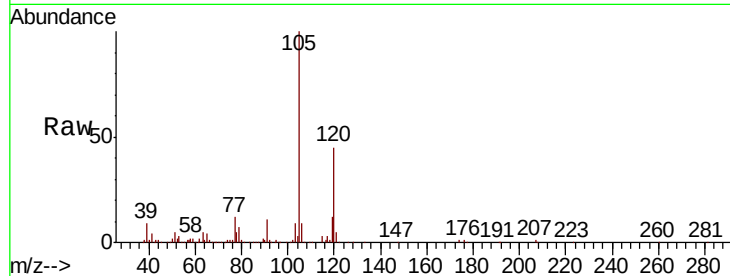
SB-5_11-11.5

Tot Ion:105 Resp: 75444

Ion Ratio Lower Upper

105 100

120 52.1 24.6 73.6



#81

trans-1,4-Dichloro-2-butene

Concen: 86.832 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

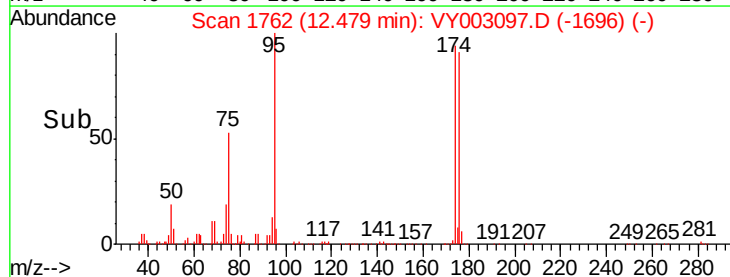
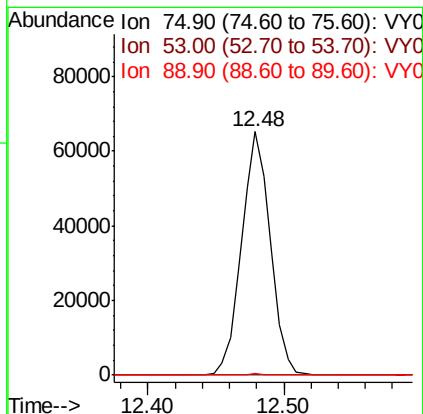
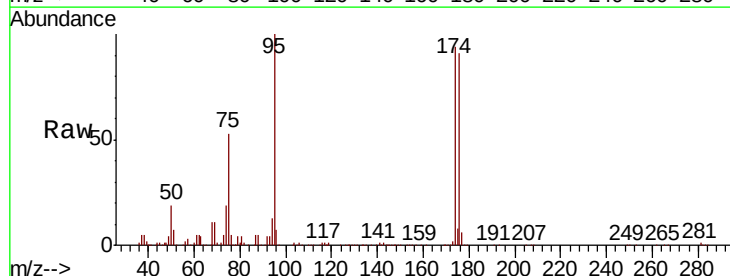
Tgt Ion: 75 Resp: 95963

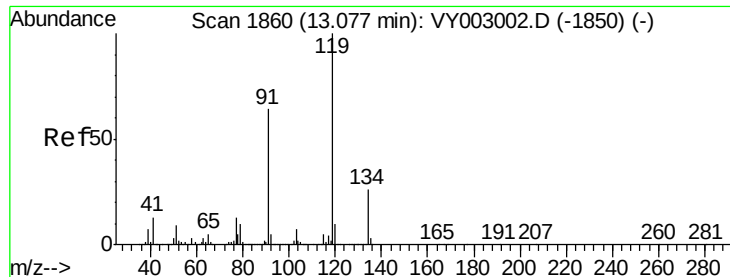
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.1 37.5 56.3#





#83

tert-Butylbenzene

Concen: 2.738 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.04 min

Lab File: VY003097.D

Acq: 02 Jul 2020 19:57

Instrument :

MSVOA_Y

ClientSampleId :

SB-5_11-11.5

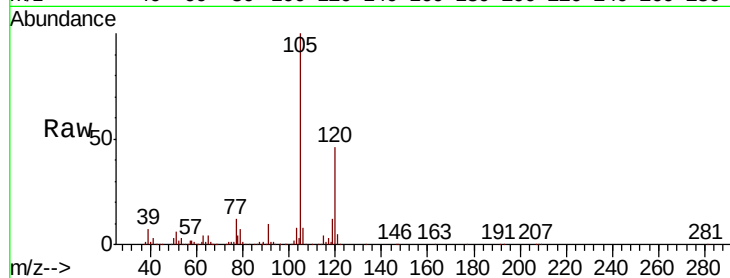
Tot Ion:119 Resp: 28687

Ion Ratio Lower Upper

119 100

91 88.2 31.6 95.0

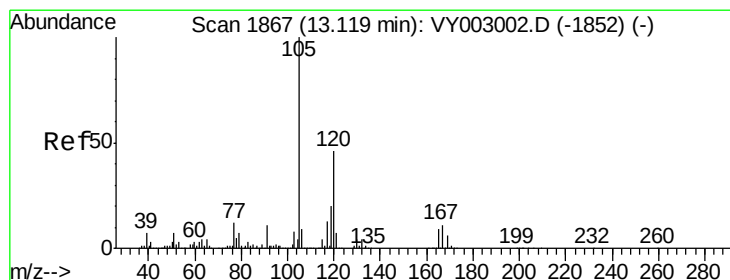
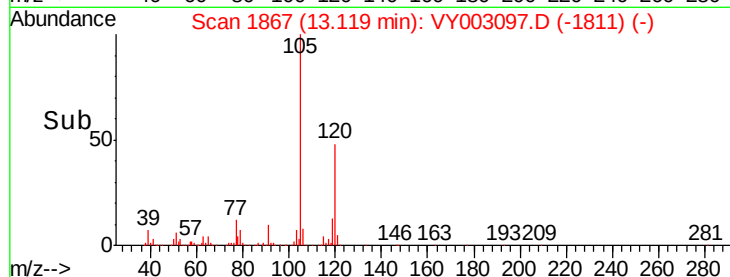
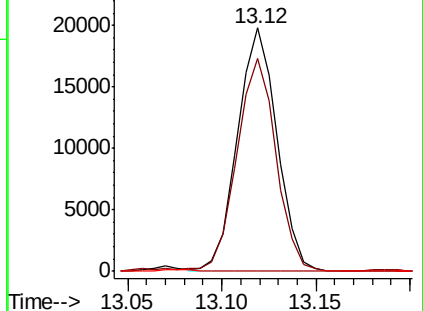
134 0.0 13.2 39.5#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.590 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY003097.D

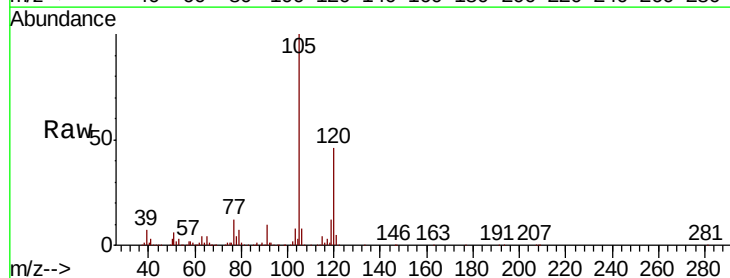
Acq: 02 Jul 2020 19:57

Tgt Ion:105 Resp: 235530

Ion Ratio Lower Upper

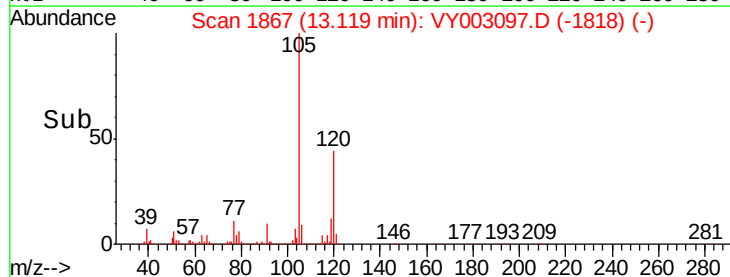
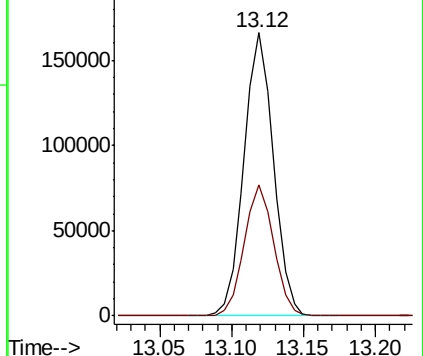
105 100

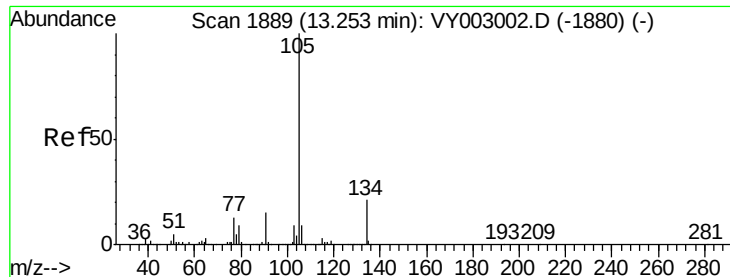
120 46.3 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

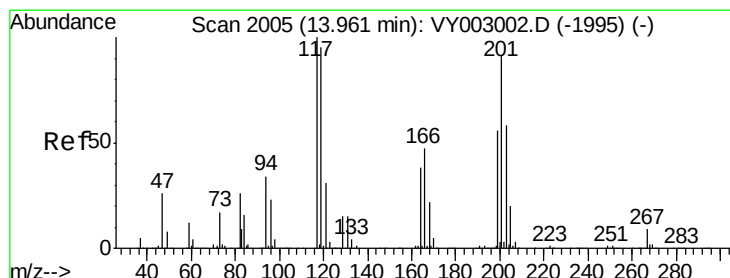
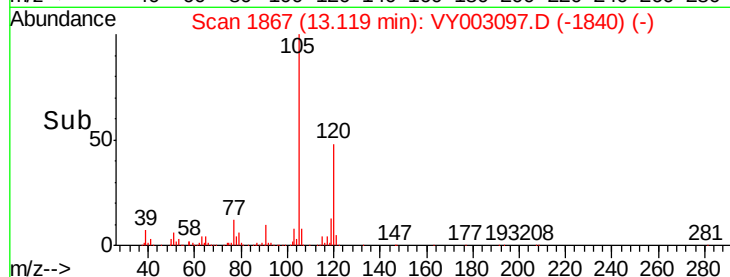
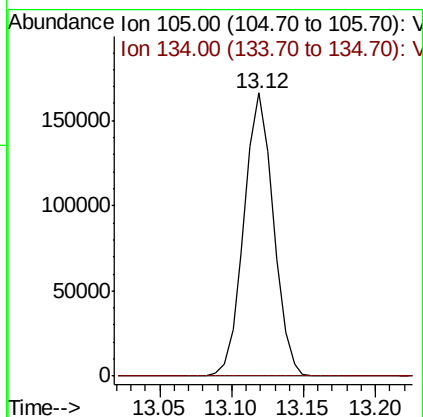
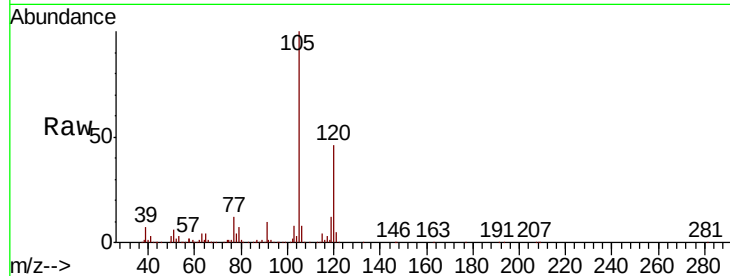




#85
 sec-Butylbenzene
 Concen: 16.310 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. -0.13 min
 Lab File: VY003097.D
 Acq: 02 Jul 2020 19:57

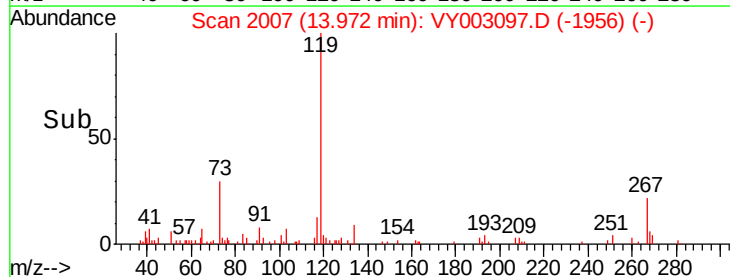
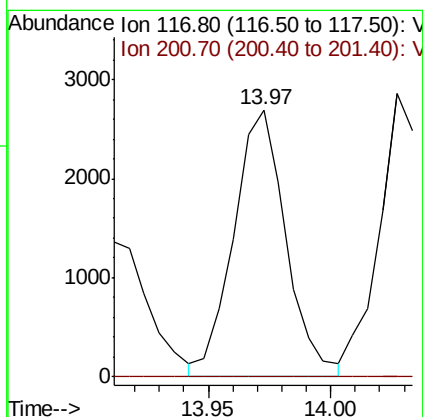
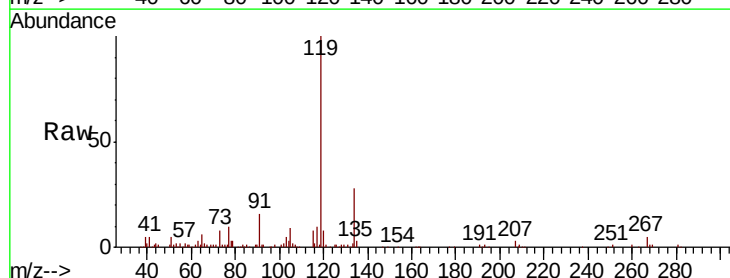
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-5_11-11.5

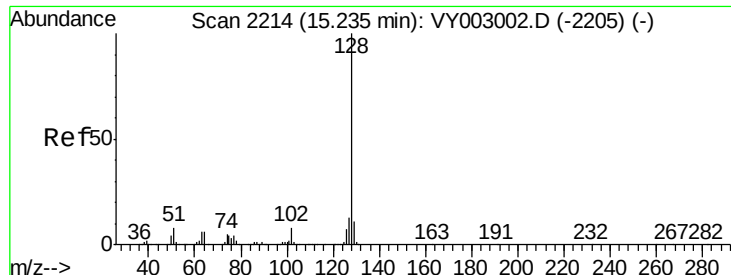
Tot Ion:105 Resp: 235530
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#



#90
 Hexachloroethane
 Concen: 1.506 ug/l
 RT: 13.97 min Scan# 2007
 Delta R.T. 0.01 min
 Lab File: VY003097.D
 Acq: 02 Jul 2020 19:57

Tgt Ion:117 Resp: 4001
 Ion Ratio Lower Upper
 117 100
 201 0.0 45.5 136.4#

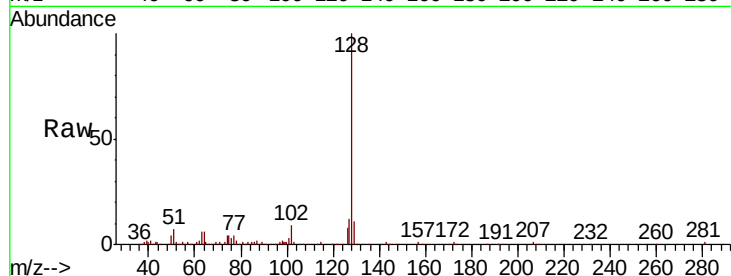




#95
Naphthalene
Concen: 10.702 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VY003097.D
Acq: 02 Jul 2020 19:57

Instrument :
MSVOA_Y
ClientSampleId :
SB-5_11-11.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.8	16.2
129	12.0	8.8	13.2



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

