

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY063020\
 Data File : VY003030.D
 Acq On : 30 Jun 2020 12:28
 Operator : SY/MD
 Sample : L3128-01RE
 Misc : 4.65G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR-61RE

Manual Integrations
 APPROVED

sam
 7/1/2020 10:11:24 PM

Quant Time: Jul 01 06:06:37 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	342827	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	544232	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	438180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	147373	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	178009	52.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.56%	
35) Dibromofluoromethane	7.72	113	177160	52.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.36%	
50) Toluene-d8	10.18	98	632537	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.48	95	168831	37.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.84%	
Target Compounds						
					Qvalue	
16) Acetone	3.96	43	74037	92.194	ug/l	96
17) Carbon Disulfide	4.20	76	27683	2.914	ug/l	98
20) Methylene Chloride	4.72	84	73343	15.682	ug/l	86
25) 2-Butanone	7.00	43	24506	19.211	ug/l	94
65) Chlorobenzene	11.52	112	387867	44.892	ug/l	99
79) 2-Chlorotoluene	12.75	91	44217	6.829	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	9739	1.203	ug/l	95
82) 4-Chlorotoluene	12.86	91	69760	10.349	ug/l	98
83) tert-Butylbenzene	13.08	119	7593	1.068	ug/l	88
84) 1,2,4-Trimethylbenzene	13.12	105	15607	1.914	ug/l	99
85) sec-Butylbenzene	13.25	105	31261	3.191	ug/l #	67
86) p-Isopropyltoluene	13.37	119	11221	1.236	ug/l	95
87) 1,3-Dichlorobenzene	13.36	146	10549m	2.285	ug/l	
88) 1,4-Dichlorobenzene	13.45	146	170077	37.358	ug/l	96
89) n-Butylbenzene	13.70	91	33911	3.905	ug/l #	87
90) Hexachloroethane	13.97	117	14122	7.835	ug/l #	12
91) 1,2-Dichlorobenzene	13.74	146	8654	2.089	ug/l #	3
93) 1,2,4-Trichlorobenzene	15.01	180	10296	3.345	ug/l #	31
94) Hexachlorobutadiene	15.11	225	3362	1.732	ug/l	94
95) Naphthalene	15.23	128	33452	5.950	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.42	180	9410	3.521	ug/l #	44

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

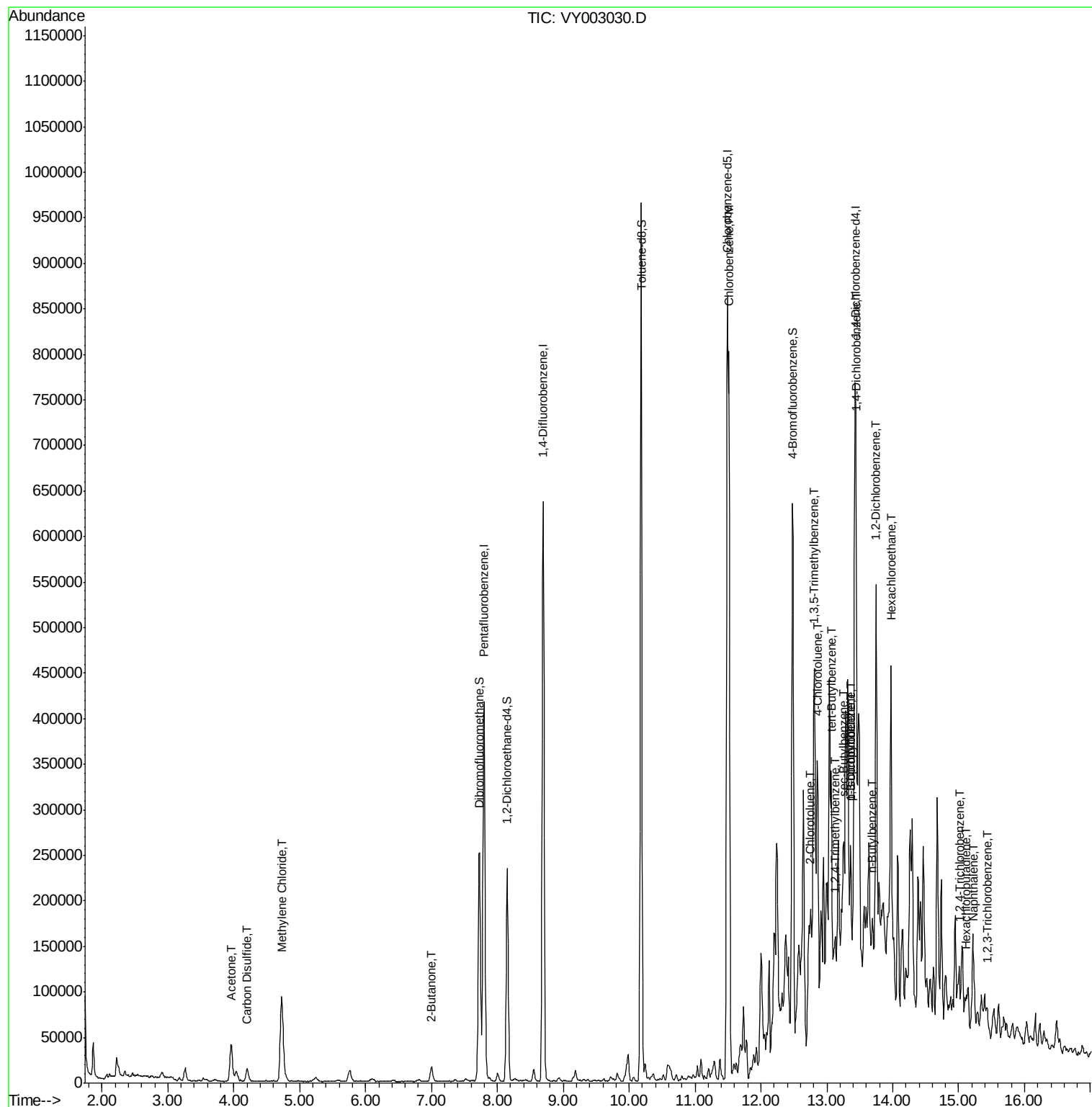
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY063020\
Data File : VY003030.D
Acq On : 30 Jun 2020 12:28
Operator : SY/MD
Sample : L3128-01RE
Misc : 4.65G/5ML/MSVOA Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

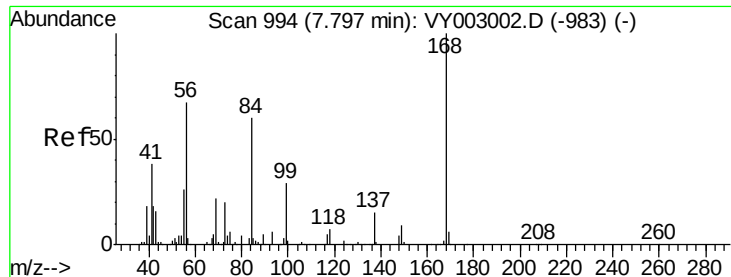
Instrument :
MSVOA_Y
ClientSampleId :
RBR-61RE

Manual Integrations
APPROVED

sam
7/1/2020 10:11:24 PM

Quant Time: Jul 01 06:06:37 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: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

ClientSampleId :

RBR-61RE

Tot Ion:168 Resp: 342827

Ion Ratio Lower Upper

168 100

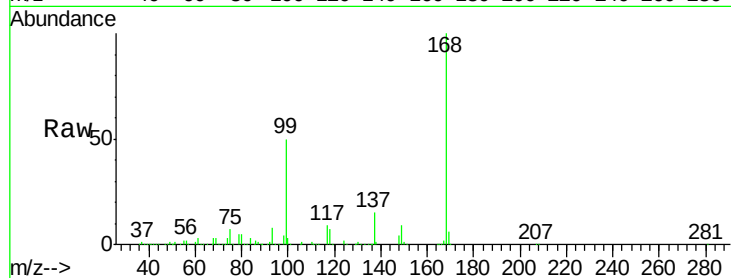
99 50.3 39.2 58.8

Manual Integrations

APPROVED

sam

7/1/2020 10:11:24 PM



Abundance Ion 167.90 (167.60 to 168.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

7.80

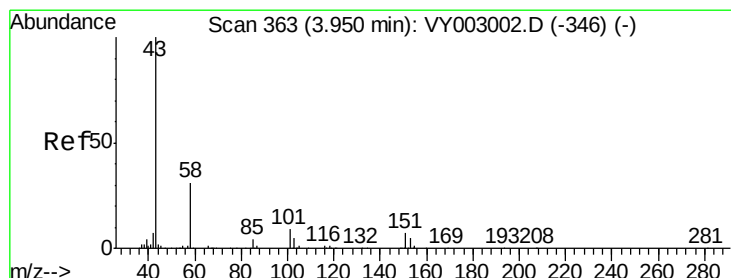
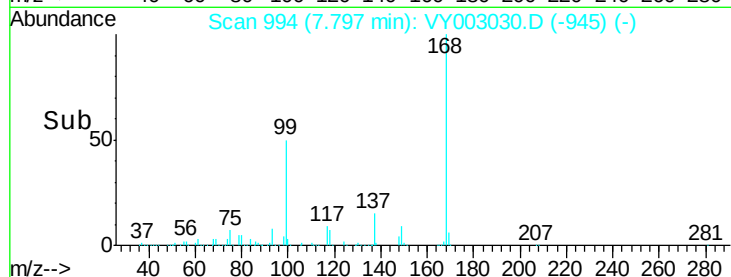
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 92.194 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY003030.D

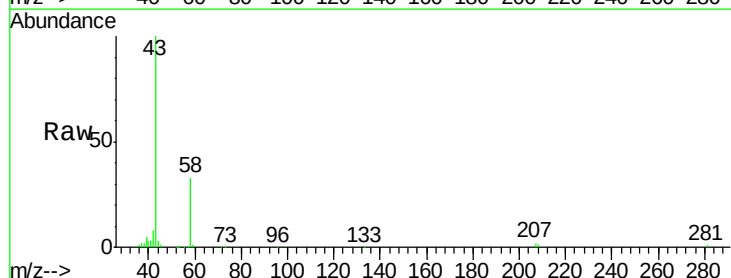
Acq: 30 Jun 2020 12:28

Tgt Ion: 43 Resp: 74037

Ion Ratio Lower Upper

43 100

58 33.0 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

30000

25000

20000

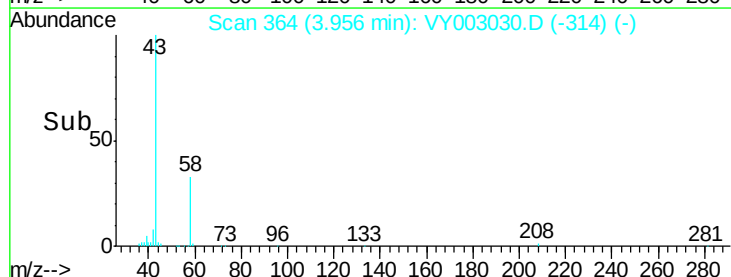
15000

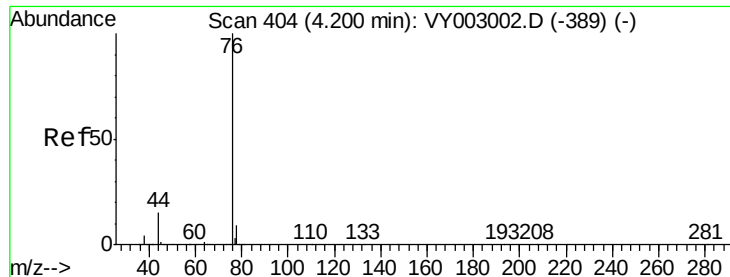
10000

5000

0

Time-->





#17

Carbon Disulfide

Concen: 2.914 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

ClientSampled :

RBR-61RE

Tot Ion: 76 Resp: 27683

Ion Ratio Lower Upper

76 100

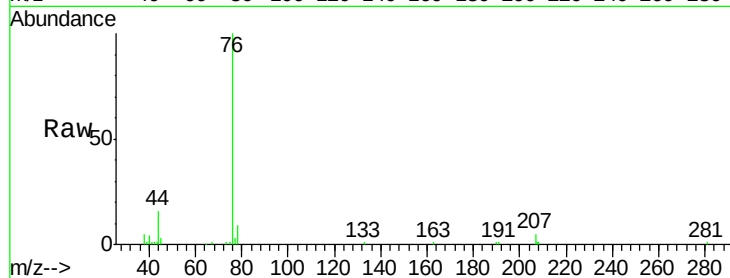
78 9.4 7.0 10.6

Manual Integrations

APPROVED

sam

7/1/2020 10:11:24 PM



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

12000

10000

8000

6000

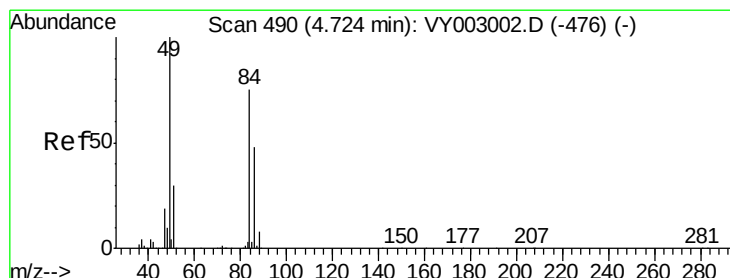
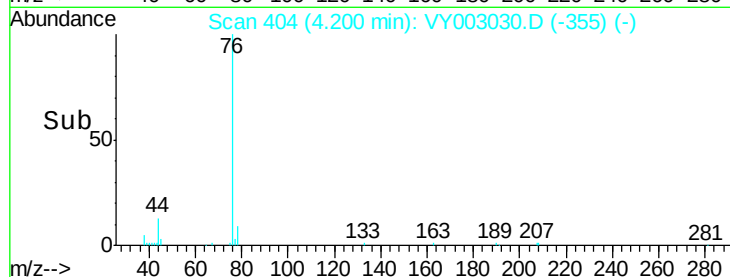
4000

2000

0

Time-->

4.10 4.20 4.30



#20

Methylene Chloride

Concen: 15.682 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Tgt Ion: 84 Resp: 73343

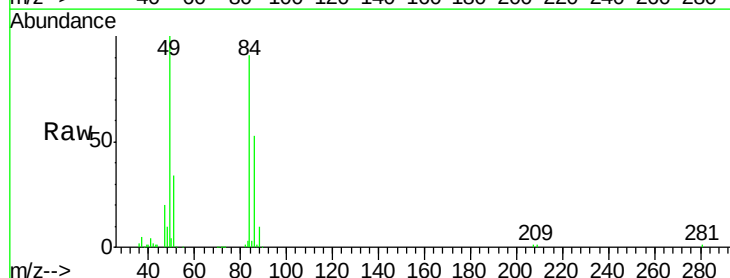
Ion Ratio Lower Upper

84 100

49 109.3 106.8 160.2

51 37.7 32.0 48.0

86 58.3 51.4 77.2



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

40000

30000

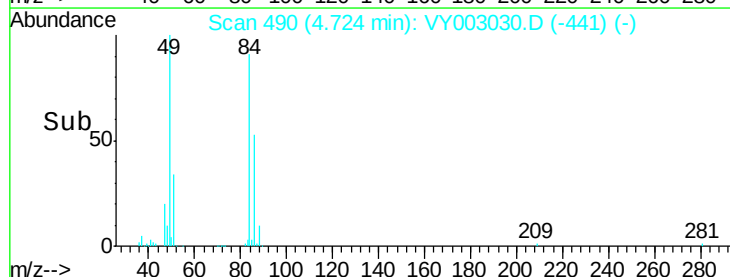
20000

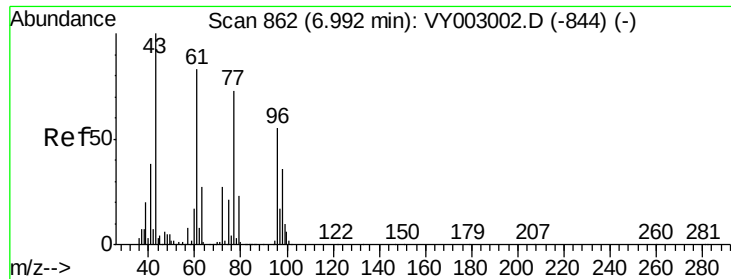
10000

0

Time-->

4.60 4.70 4.80 4.90





#25

2-Butanone

Concen: 19.211 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.01 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

ClientSampled :

RBR-61RE

Tot Ion: 43 Resp: 24506

Ion Ratio Lower Upper

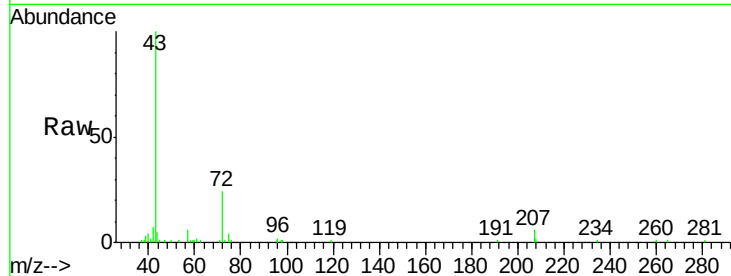
43 100

72 23.6 21.4 32.0

Manual Integrations
APPROVED

sam

7/1/2020 10:11:24 PM

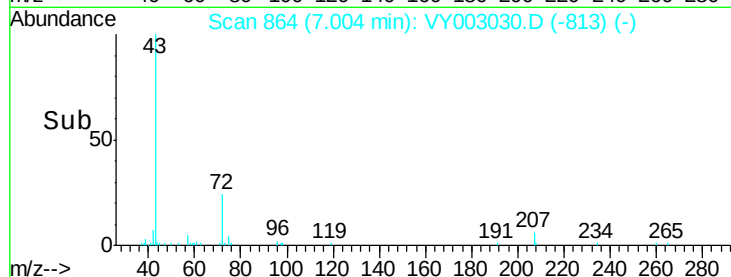


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Time-->

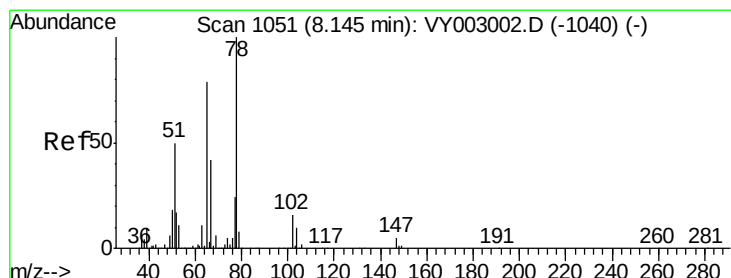
Time-->



Abundance

Time-->

Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.279 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003030.D

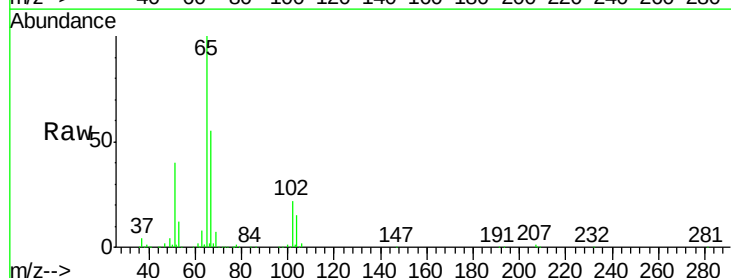
Acq: 30 Jun 2020 12:28

Tgt Ion: 65 Resp: 178009

Ion Ratio Lower Upper

65 100

67 52.7 0.0 105.6

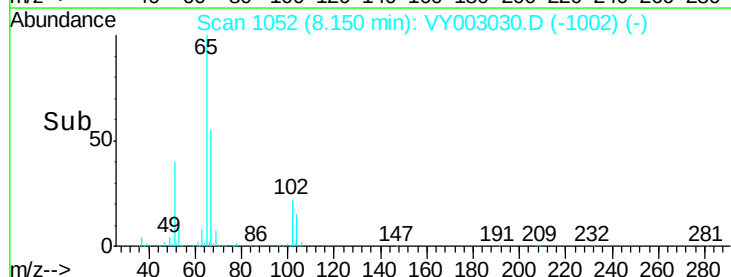


Abundance Ion 64.90 (64.60 to 65.60): VY0

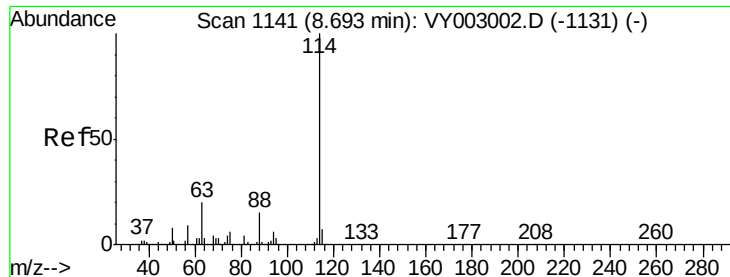
Ion 66.90 (66.60 to 67.60): VY0

Time-->

Time-->



Time-->



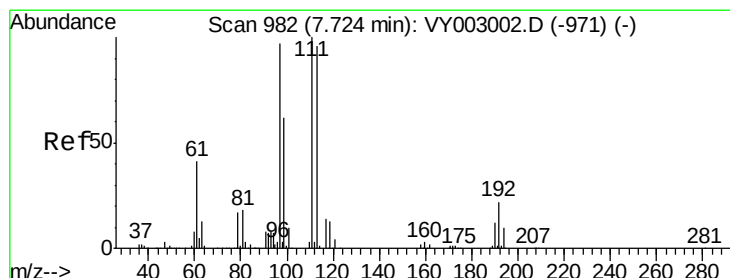
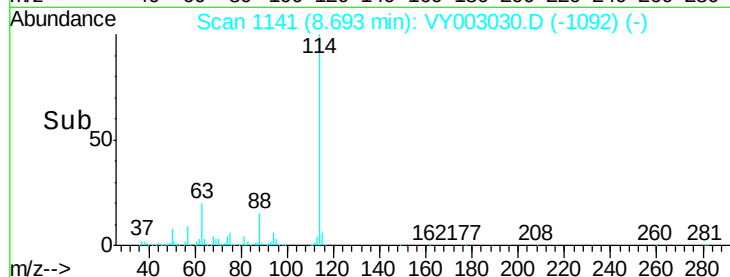
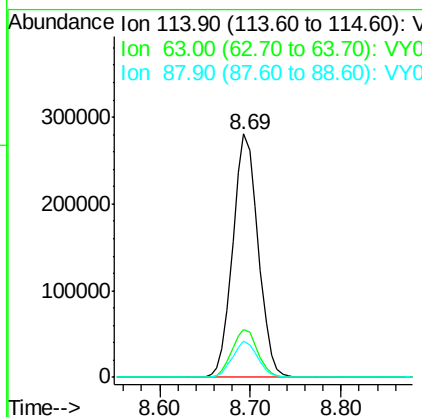
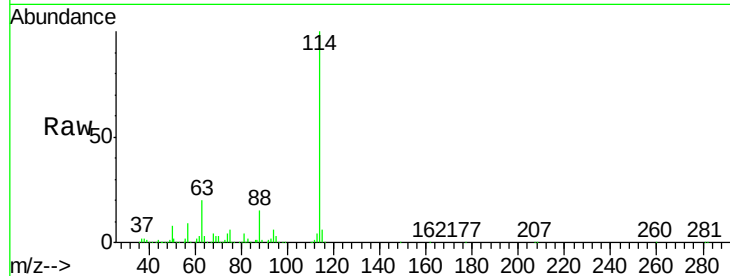
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.69 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Instrument :
MSVOA_Y
ClientSampleId :
RBR-61RE

Tot Ion	Ratio	Resp	Lower	Upper
114	100	544232		
63	19.5		0.0	40.6
88	14.8		0.0	30.0

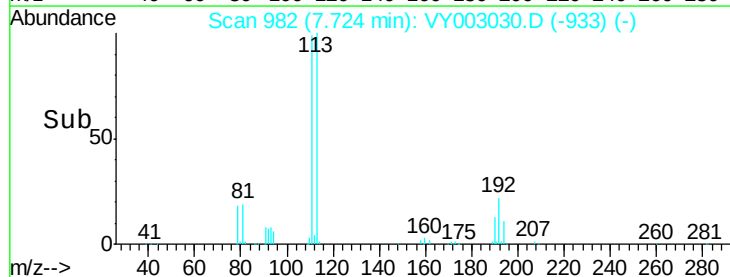
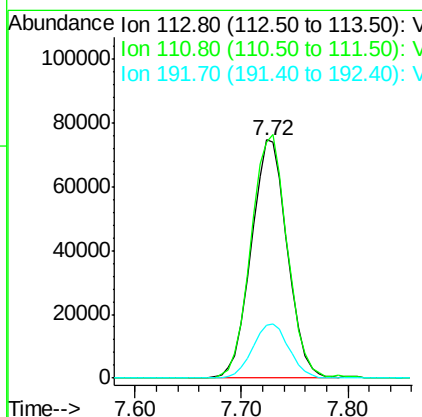
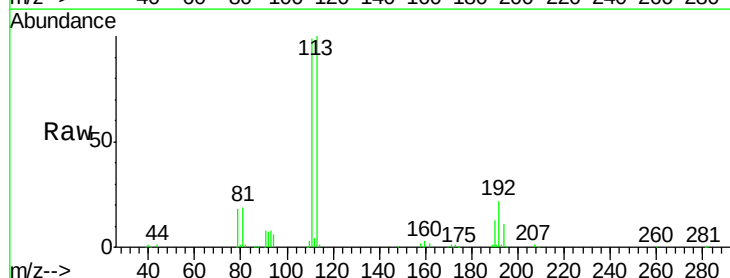
Manual Integrations
APPROVED

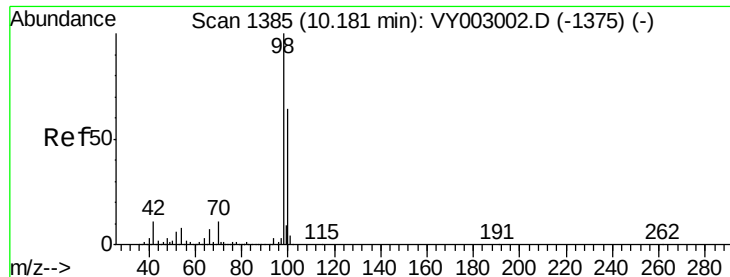
sam
7/1/2020 10:11:24 PM



#35
Dibromofluoromethane
Concen: 52.183 ug/l
RT: 7.72 min Scan# 982
Delta R.T. -0.00 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	177160		
111	102.7		82.6	123.8
192	22.9		18.1	27.1





#50

Toluene-d8

Concen: 50.011 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

ClientSampleId :

RBR-61RE

Tot Ion: 98 Resp: 632537

Ion Ratio Lower Upper

98 100

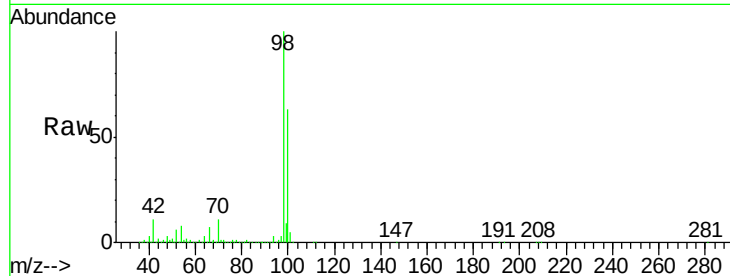
100 63.7 51.1 76.7

Manual Integrations

APPROVED

sam

7/1/2020 10:11:24 PM



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

10.18

400000

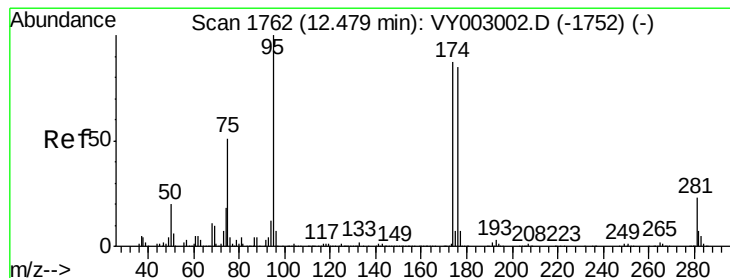
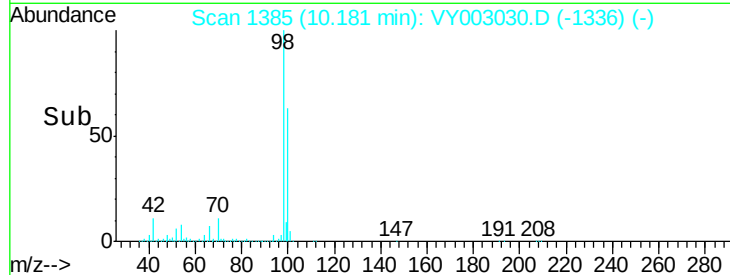
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 37.922 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

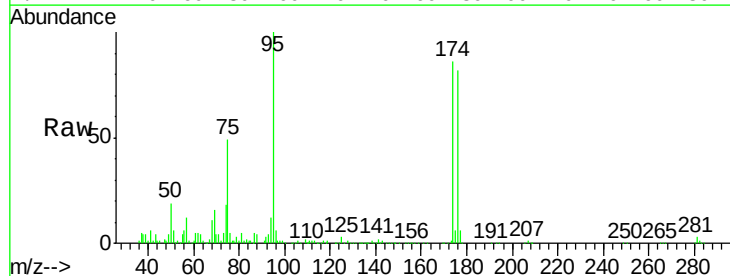
Tgt Ion: 95 Resp: 168831

Ion Ratio Lower Upper

95 100

174 91.6 0.0 184.8

176 89.0 0.0 183.0



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

12.48

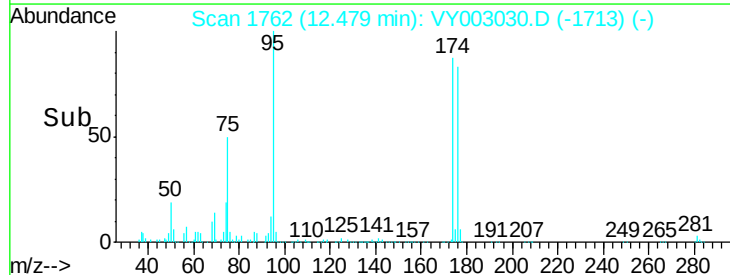
150000

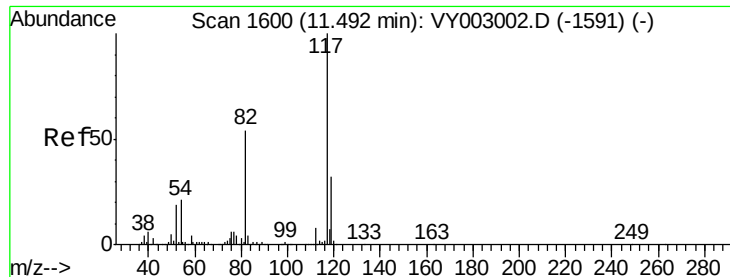
100000

50000

0

Time-->





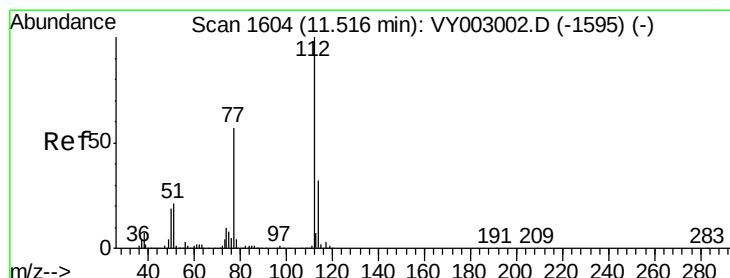
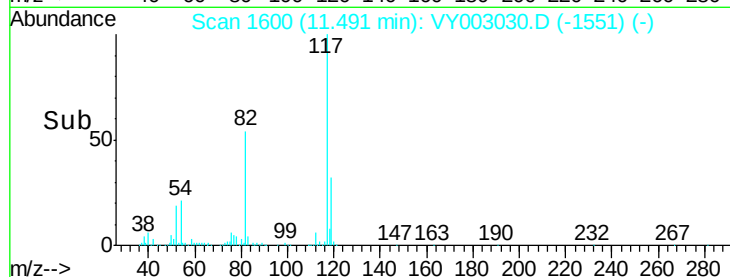
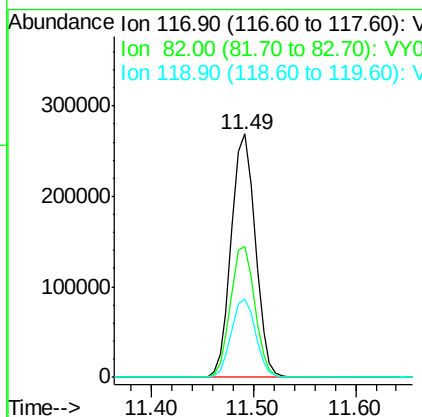
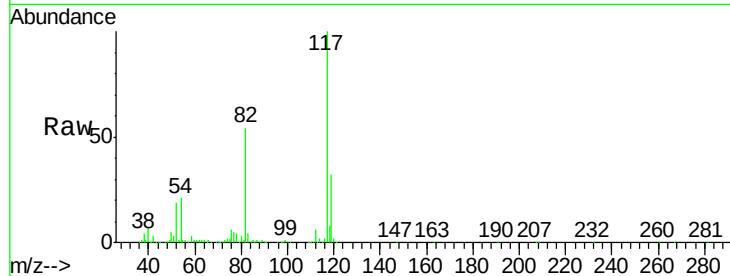
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Instrument :
MSVOA_Y
ClientSampleId :
RBR-61RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.0	64.6
119	32.5	25.8	38.8

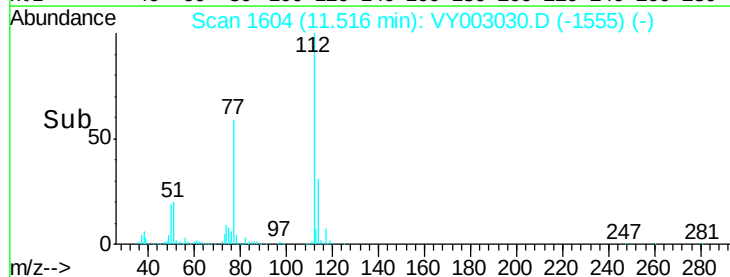
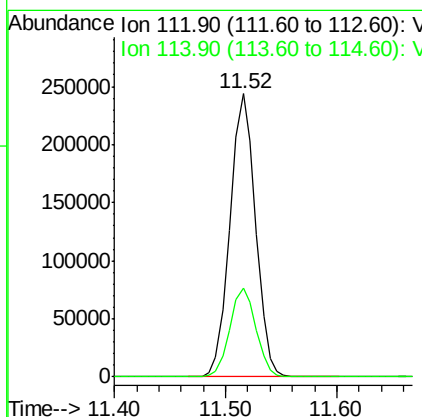
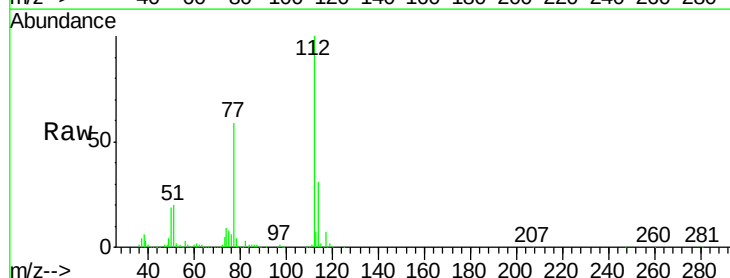
Manual Integrations
APPROVED

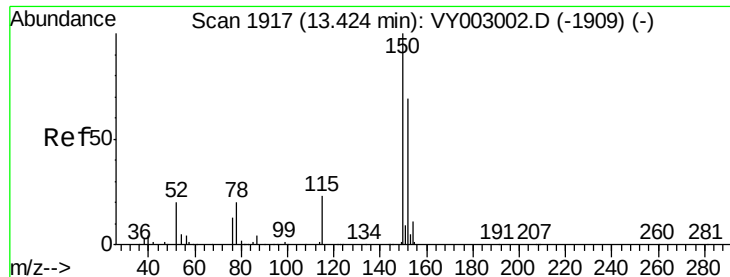
sam
7/1/2020 10:11:24 PM



#65
Chlorobenzene
Concen: 44.892 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.7	38.5





#72

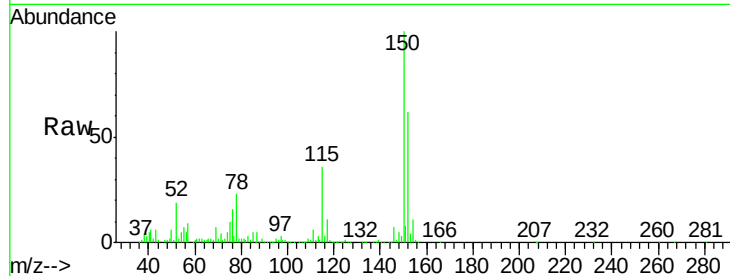
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Instrument :
MSVOA_Y
ClientSampleId :
RBR-61RE

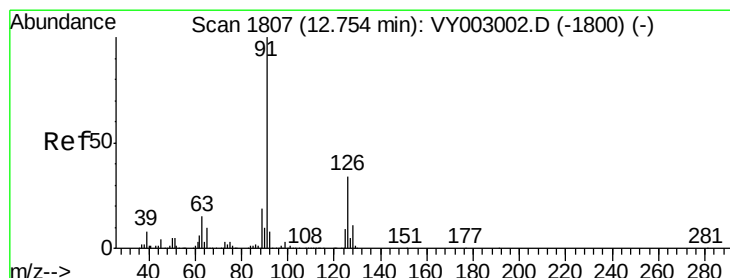
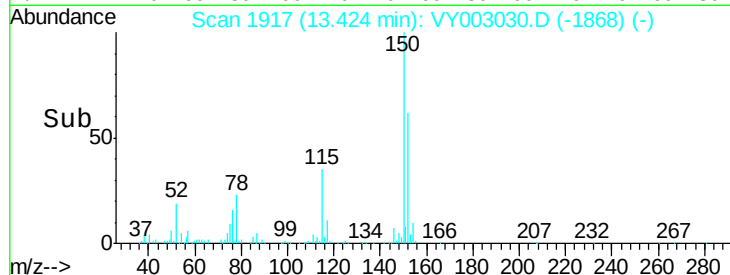
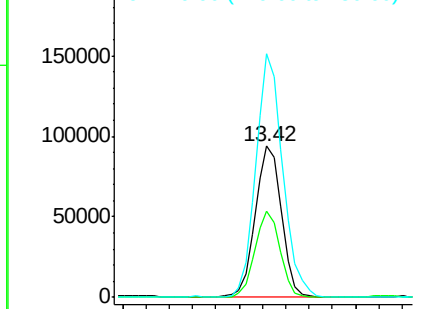
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.9	27.3	81.9
150	165.0	0.0	343.4

Manual Integrations
APPROVED

sam
7/1/2020 10:11:24 PM



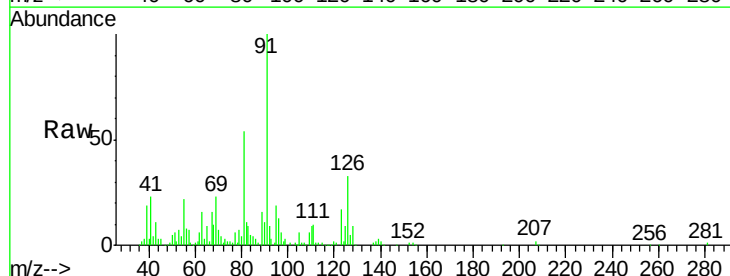
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



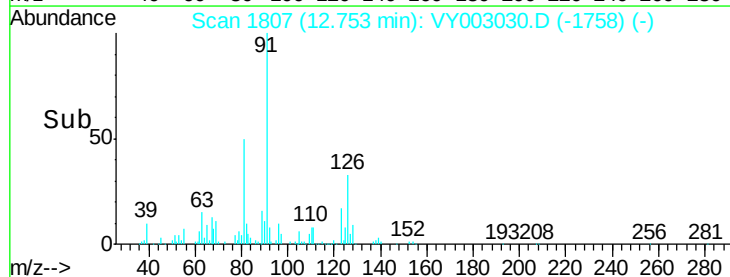
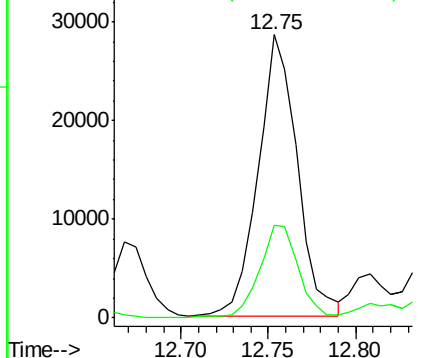
#79

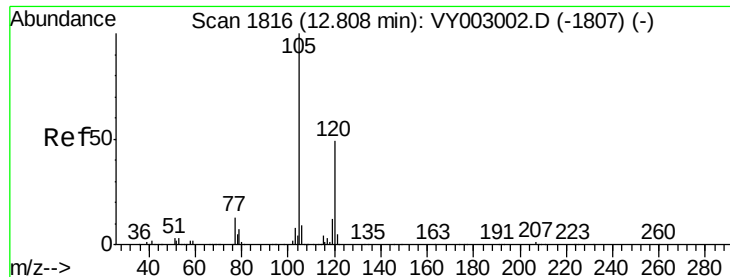
2-Chlorotoluene
Concen: 6.829 ug/l
RT: 12.75 min Scan# 1807
Delta R.T. -0.00 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.2	17.1	51.3



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 1.203 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. 0.01 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

ClientSampleId :

RBR-61RE

Tot Ion:105 Resp: 9739

Ion Ratio Lower Upper

105 100

120 45.8

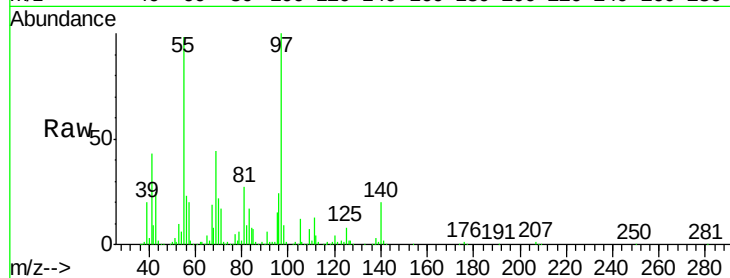
24.6

73.6

Manual Integrations
APPROVED

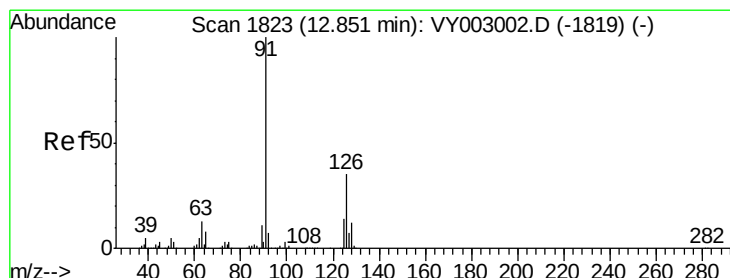
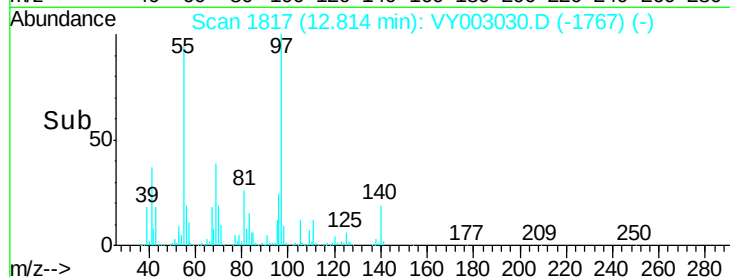
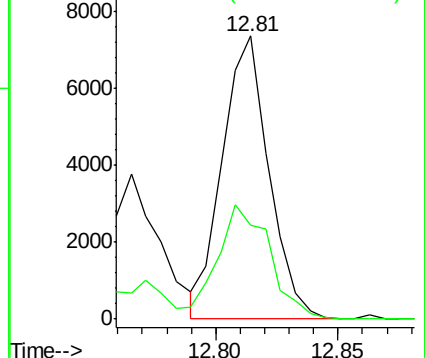
sam

7/1/2020 10:11:24 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

4-Chlorotoluene

Concen: 10.349 ug/l

RT: 12.86 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Tgt Ion: 91 Resp: 69760

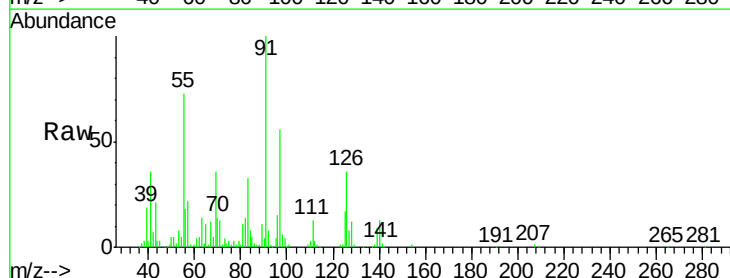
Ion Ratio Lower Upper

91 100

126 35.9

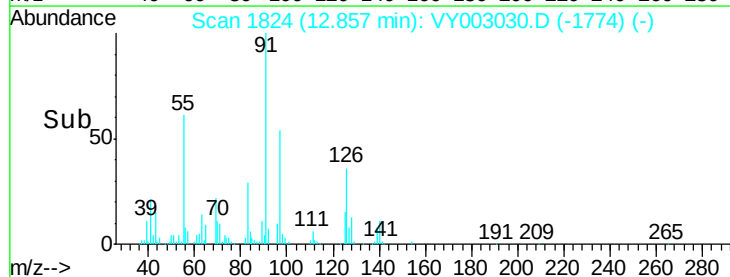
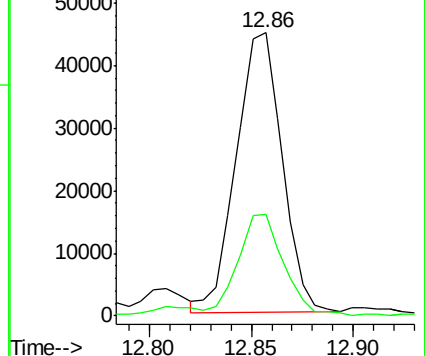
17.4

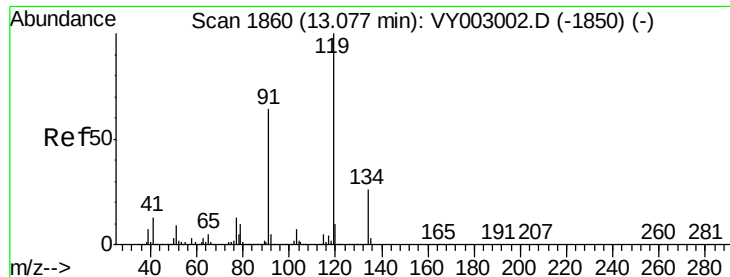
52.3



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 1.068 ug/l

RT: 13.08 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

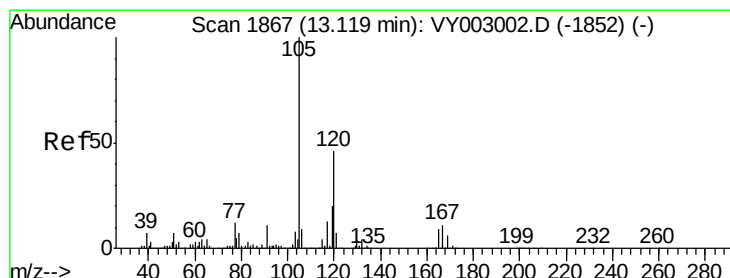
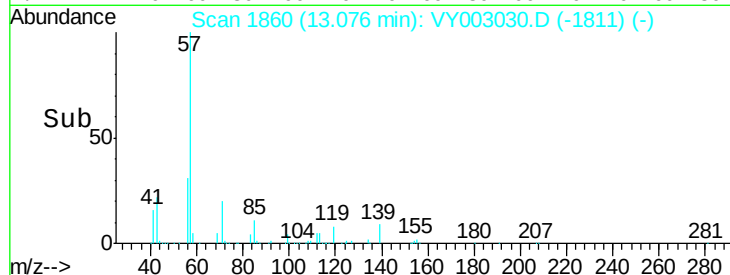
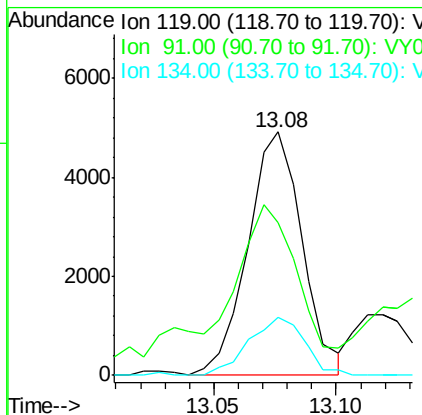
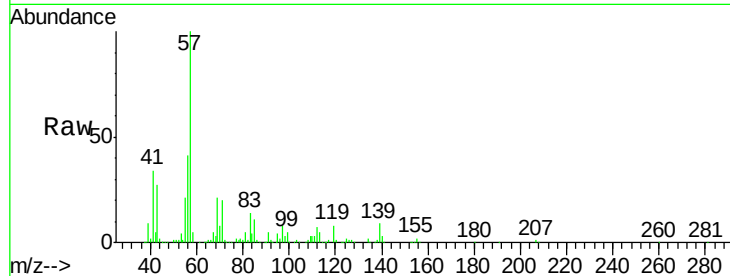
ClientSampleId :

RBR-61RE

Tot Ion:	119	Resp:	7593
Ion	Ratio	Lower	Upper
119	100		
91	75.1	31.6	95.0
134	24.4	13.2	39.5

Manual Integrations
APPROVED

sam
7/1/2020 10:11:24 PM



#84

1,2,4-Trimethylbenzene

Concen: 1.914 ug/l

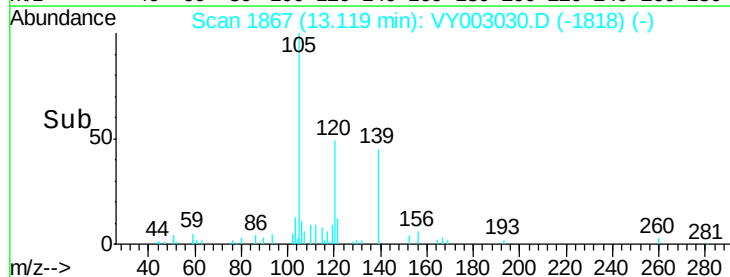
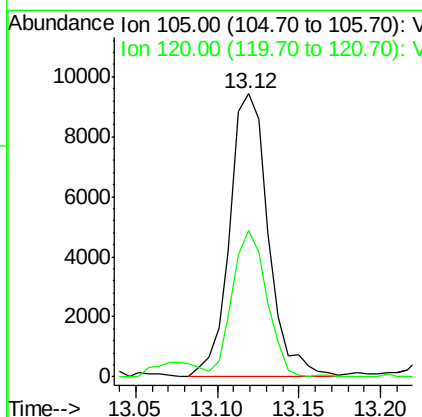
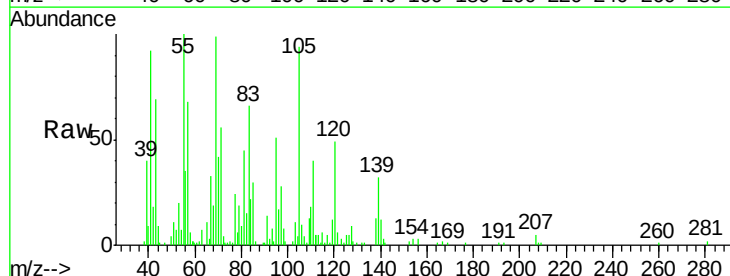
RT: 13.12 min Scan# 1867

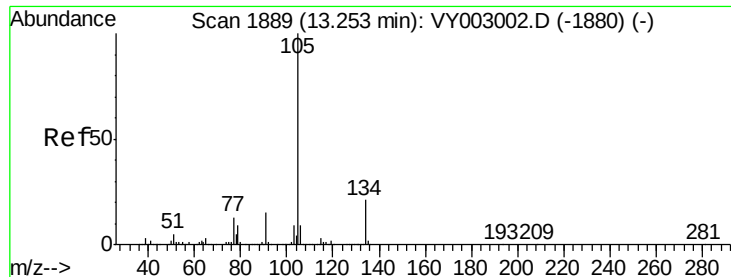
Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Tgt Ion:	105	Resp:	15607
Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.6	67.8





#85

sec-Butylbenzene

Concen: 3.191 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

ClientSampleId :

RBR-61RE

Tot Ion:105 Resp: 31261

Ion Ratio Lower Upper

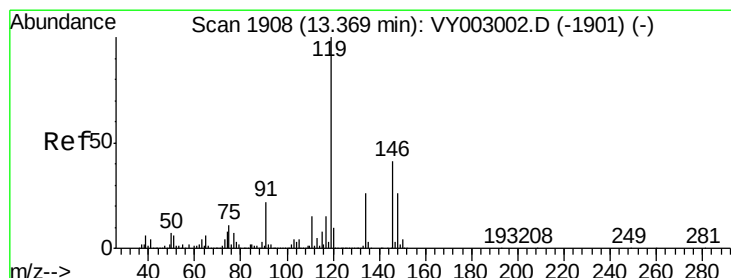
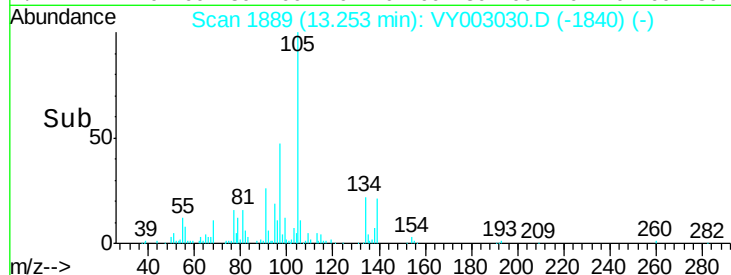
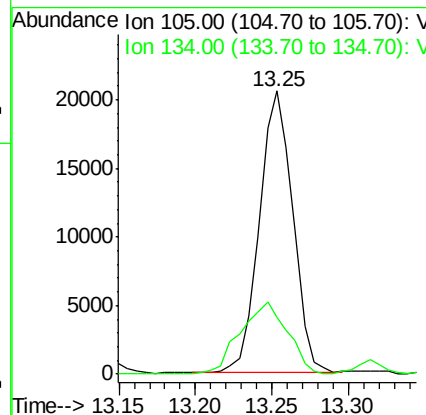
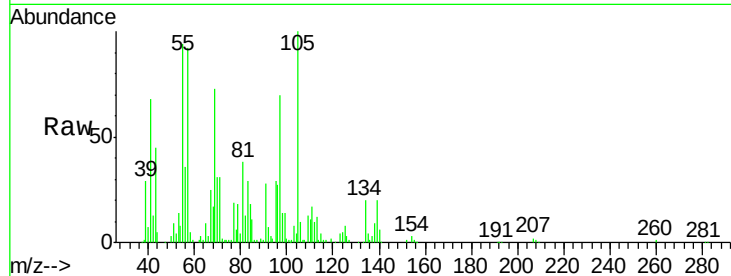
105 100

134 36.0 10.4 31.2#

Manual Integrations
APPROVED

sam

7/1/2020 10:11:24 PM



#86

p-Isopropyltoluene

Concen: 1.236 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

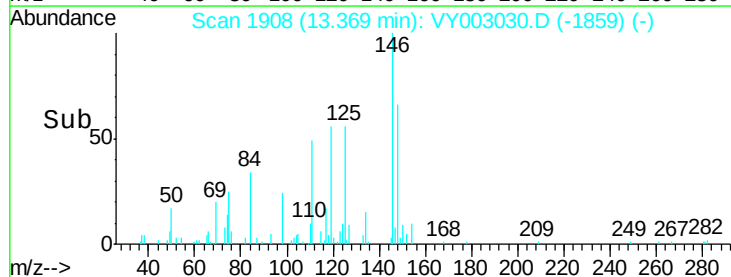
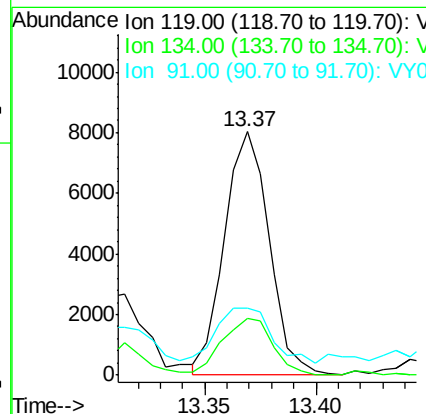
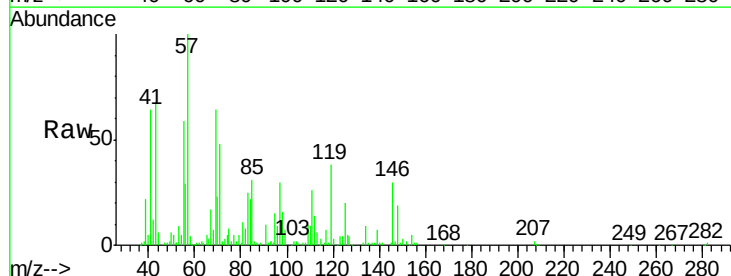
Tgt Ion:119 Resp: 11221

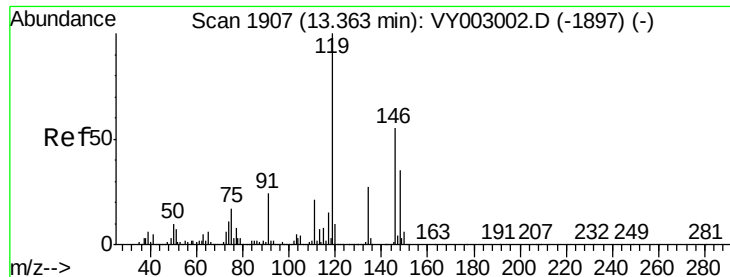
Ion Ratio Lower Upper

119 100

134 26.6 13.5 40.4

91 27.7 11.5 34.5





#87

1,3-Dichlorobenzene

Concen: 2.285 ug/l m

RT: 13.36 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

ClientSampleId :

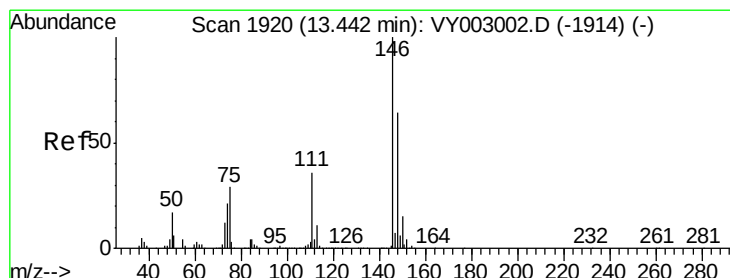
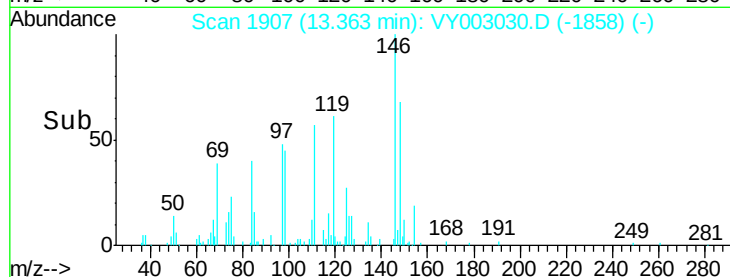
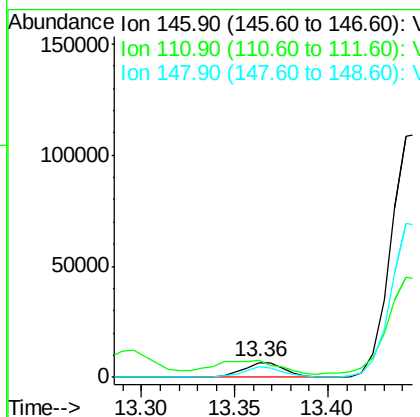
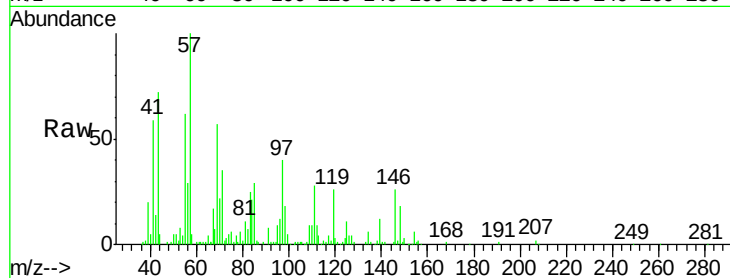
RBR-61RE

Tot Ion:146 Resp: 10549
 Ion Ratio Lower Upper
 146 100
 111 692.3 18.8 56.3#
 148 1032.2 31.8 95.3

Manual Integrations
 APPROVED

sam

7/1/2020 10:11:24 PM



#88

1,4-Dichlorobenzene

Concen: 37.358 ug/l

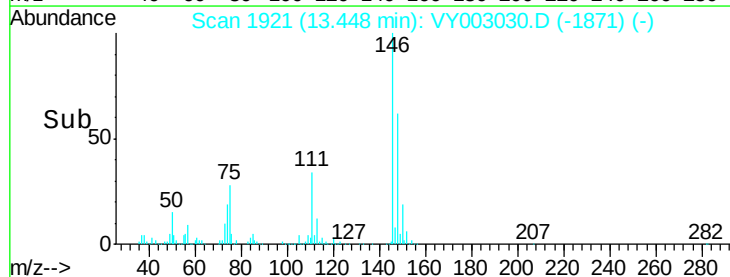
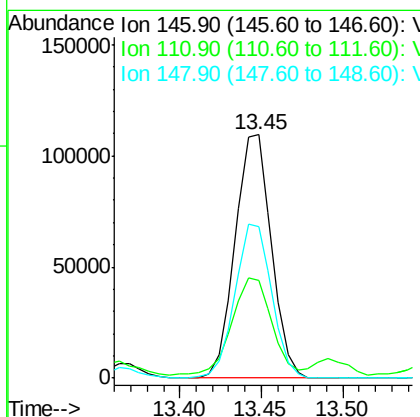
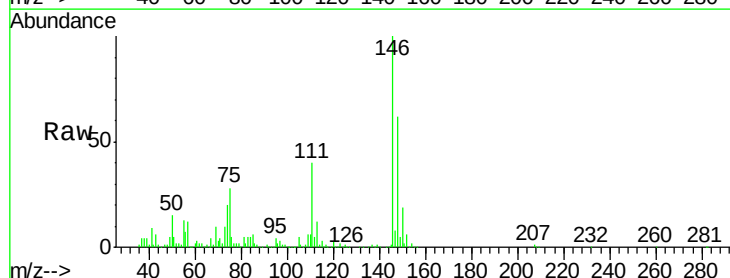
RT: 13.45 min Scan# 1921

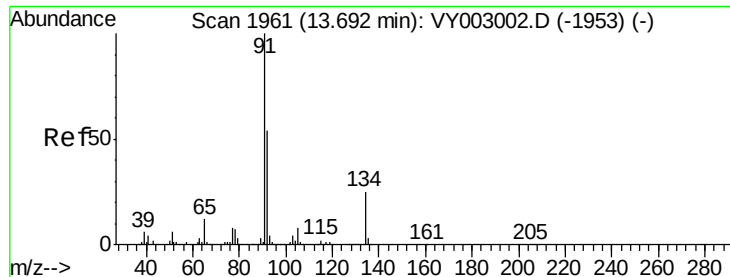
Delta R.T. 0.01 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Tgt Ion:146 Resp: 170077
 Ion Ratio Lower Upper
 146 100
 111 42.9 18.4 55.4
 148 64.0 32.3 96.9





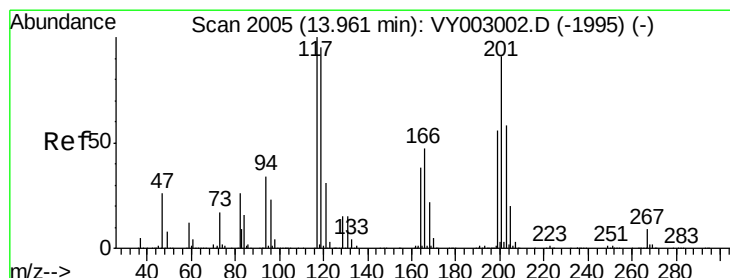
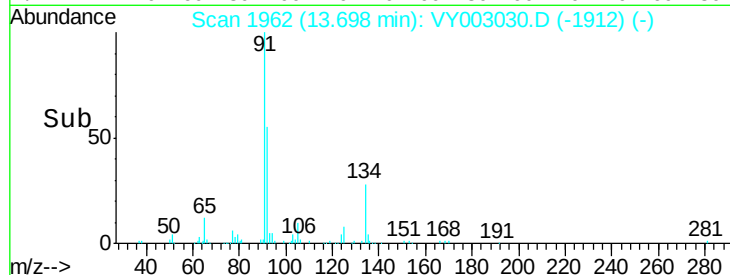
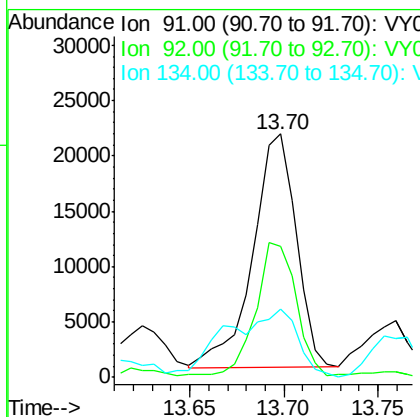
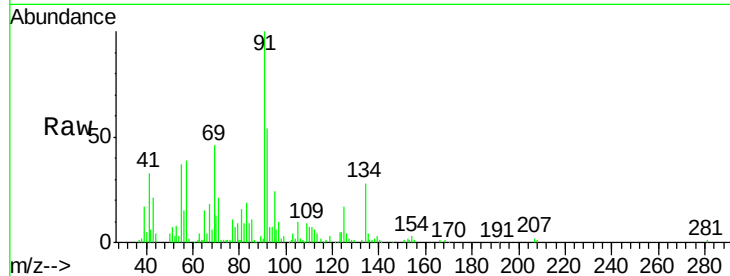
#89
n-Butylbenzene
Concen: 3.905 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. 0.01 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Instrument :
MSVOA_Y
ClientSampleId :
RBR-61RE

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.8	80.3
134	46.4	13.1	39.1

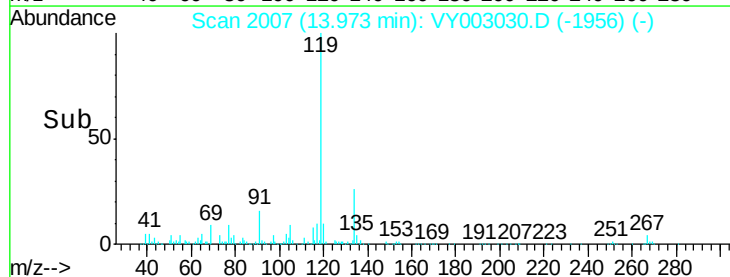
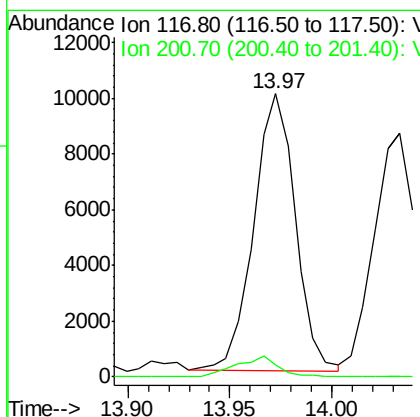
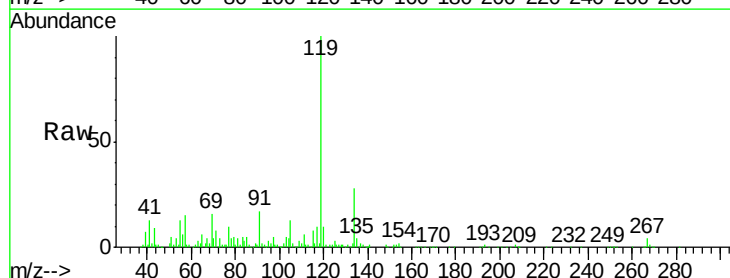
Manual Integrations
APPROVED

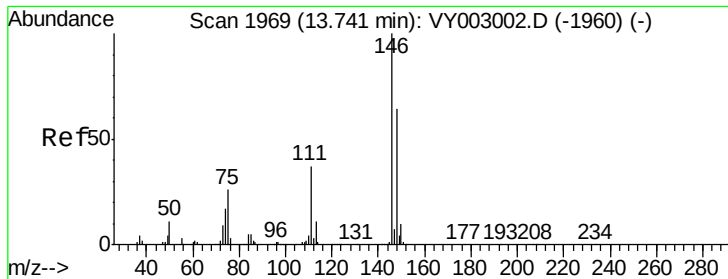
sam
7/1/2020 10:11:24 PM



#90
Hexachloroethane
Concen: 7.835 ug/l
RT: 13.97 min Scan# 2007
Delta R.T. 0.01 min
Lab File: VY003030.D
Acq: 30 Jun 2020 12:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	7.6	45.5	136.4





#91

1,2-Dichlorobenzene

Concen: 2.089 ug/l

RT: 13.74 min Scan# 1969

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

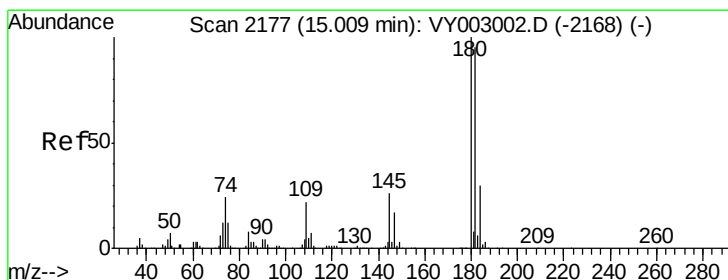
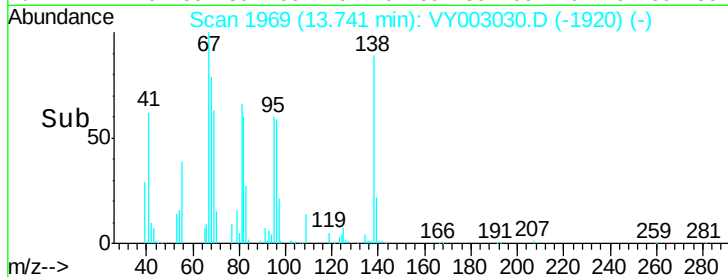
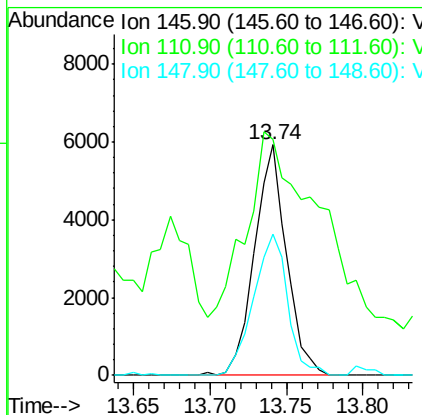
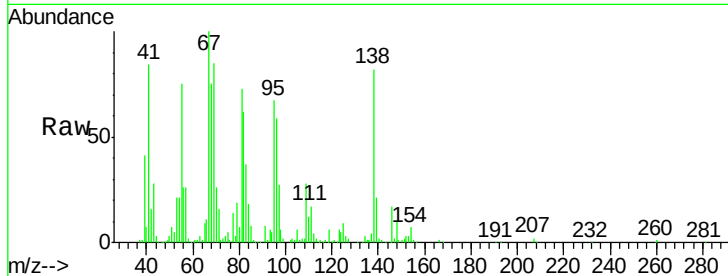
ClientSampleId :

RBR-61RE

Tot Ion	Ratio	Lower	Upper
146	100		
111	191.9	19.1	57.5#
148	65.4	31.8	95.3

Manual Integrations
APPROVED

sam
7/1/2020 10:11:24 PM



#93

1,2,4-Trichlorobenzene

Concen: 3.345 ug/l

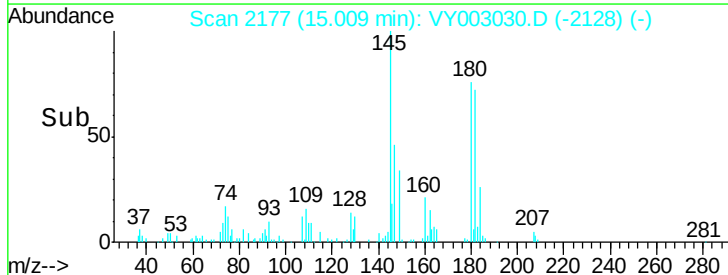
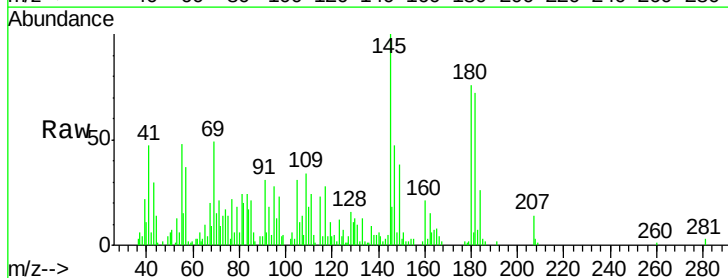
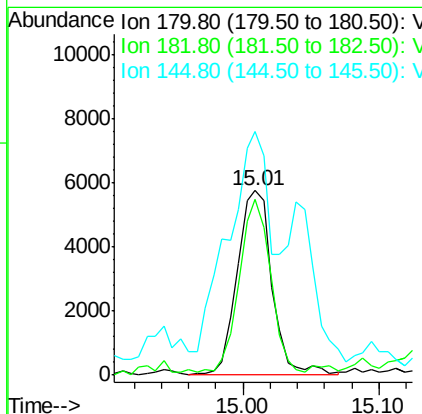
RT: 15.01 min Scan# 2177

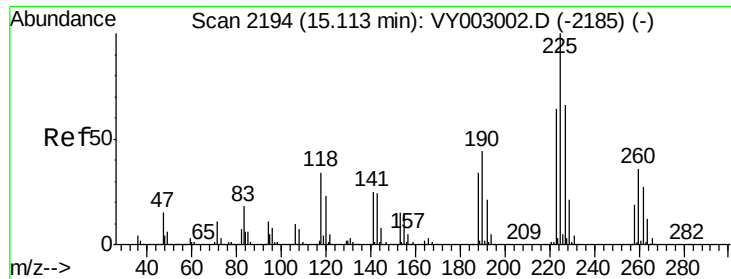
Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.6	48.1	144.3
145	169.2	13.9	41.6#





#94

Hexachlorobutadiene

Concen: 1.732 ug/l

RT: 15.11 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Instrument :

MSVOA_Y

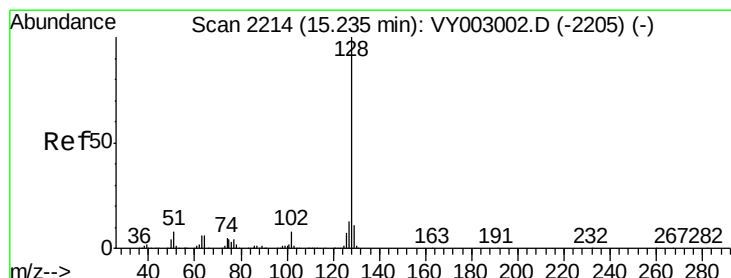
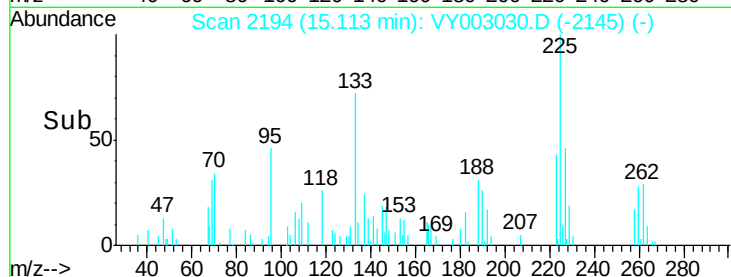
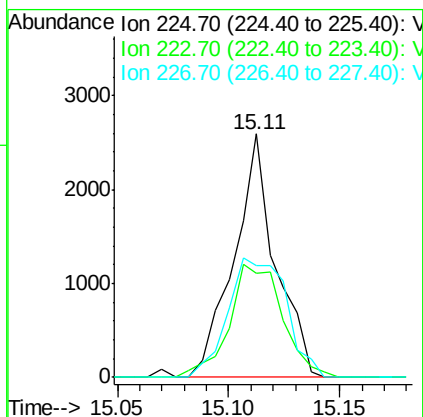
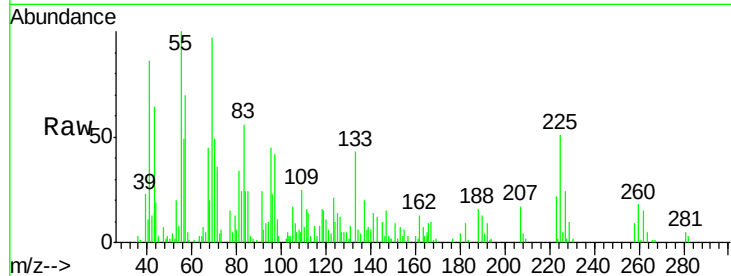
ClientSampleId :

RBR-61RE

Tot Ion:	225	Resp:	3362
Ion Ratio	Lower	Upper	
225	100		
223	59.7	32.4	97.0
227	69.0	32.4	97.2

Manual Integrations
APPROVED

sam
7/1/2020 10:11:24 PM



#95

Naphthalene

Concen: 5.950 ug/l

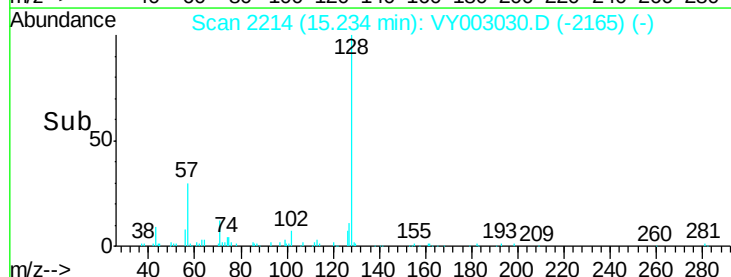
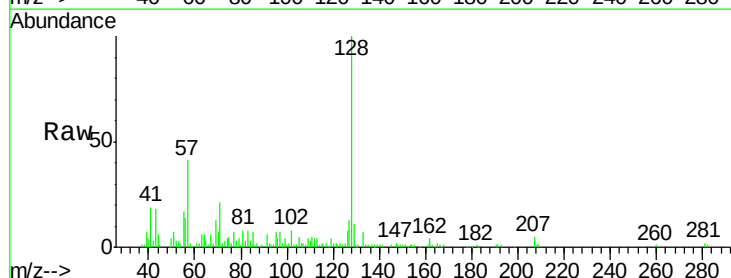
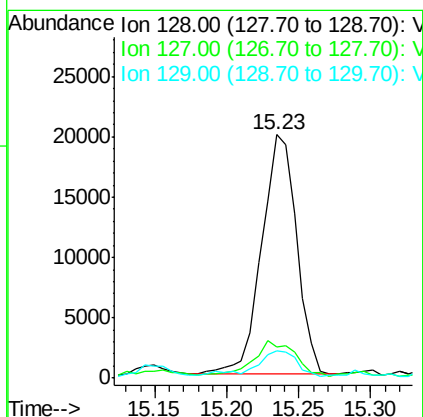
RT: 15.23 min Scan# 2214

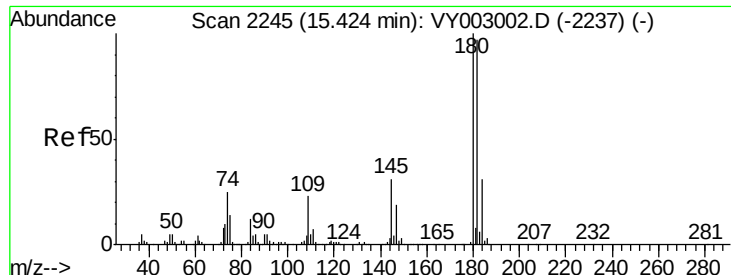
Delta R.T. -0.00 min

Lab File: VY003030.D

Acq: 30 Jun 2020 12:28

Tgt Ion:	128	Resp:	33452
Ion Ratio	Lower	Upper	
128	100		
127	17.2	10.8	16.2#
129	10.4	8.8	13.2





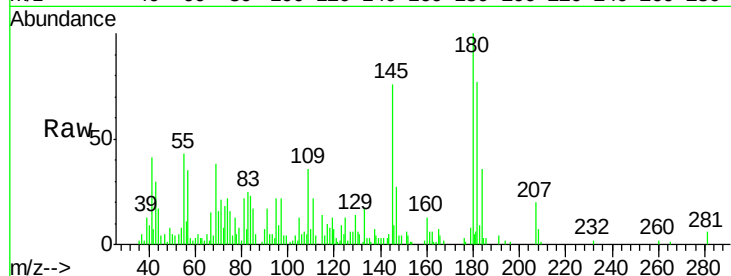
#96
 1,2,3-Trichlorobenzene
 Concen: 3.521 ug/l
 RT: 15.42 min Scan# 2245
 Delta R.T. -0.00 min
 Lab File: VY003030.D
 Acq: 30 Jun 2020 12:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR-61RE

Tot Ion:	180	Resp:	9410
Ion Ratio	Lower	Upper	
180	100		
182	99.4	47.8	143.3
145	151.2	14.7	44.1#

Manual Integrations
 APPROVED

sam
 7/1/2020 10:11:24 PM



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

