

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY063020\
 Data File : VY003036.D
 Acq On : 30 Jun 2020 15:40
 Operator : SY/MD
 Sample : L3129-09RE
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11982RE

Manual Integrations
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sam
 7/1/2020 10:11:38 PM

Quant Time: Jul 01 06:30:08 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	158404	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	300764	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	157752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	43185	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	148857	94.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	189.24%	
35) Dibromofluoromethane	7.73	113	126944	67.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.32%	
50) Toluene-d8	10.18	98	224990	32.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.38%	
62) 4-Bromofluorobenzene	12.48	95	54051	21.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.94%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.12	50	1856	1.057	ug/l	98
11) Tert butyl alcohol	4.96	59	262644	1638.100	ug/l	100
13) Acrolein	3.74	56	2289	15.895	ug/l #	14
15) Acrylonitrile	5.18	53	2273	5.319	ug/l	86
16) Acetone	3.95	43	3039170	8190.681	ug/l	99
18) Methyl Acetate	4.48	43	13194	13.198	ug/l	98
20) Methylene Chloride	4.73	84	72467	42.756	ug/l	91
25) 2-Butanone	6.99	43	857974	1455.627	ug/l	99
51) 4-Methyl-2-Pentanone	10.07	43	159804	93.370	ug/l	97
52) Toluene	10.24	92	49601	9.934	ug/l	99
56) Ethyl methacrylate	10.45	69	67669	28.227	ug/l #	67
59) 2-Hexanone	10.83	43	173012	144.623	ug/l	98
67) Ethyl Benzene	11.60	91	11139	1.957	ug/l	91
68) m/p-Xylenes	11.69	106	20562	9.709	ug/l	96
69) o-Xylene	12.03	106	9938	4.980	ug/l	98
73) Isopropylbenzene	12.33	105	10173	3.599	ug/l	98
78) n-propylbenzene	12.67	91	16715	4.918	ug/l	97
80) 1,3,5-Trimethylbenzene	12.81	105	52180	22.002	ug/l	99
82) 4-Chlorotoluene	12.85	91	5012m	2.537	ug/l	
84) 1,2,4-Trimethylbenzene	13.12	105	224275	93.846	ug/l	99
85) sec-Butylbenzene	13.25	105	6626m	2.308	ug/l	
86) p-Isopropyltoluene	13.37	119	23049	8.666	ug/l	99
89) n-Butylbenzene	13.69	91	18891	7.423	ug/l #	70
95) Naphthalene	15.23	128	112628	68.365	ug/l	96

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

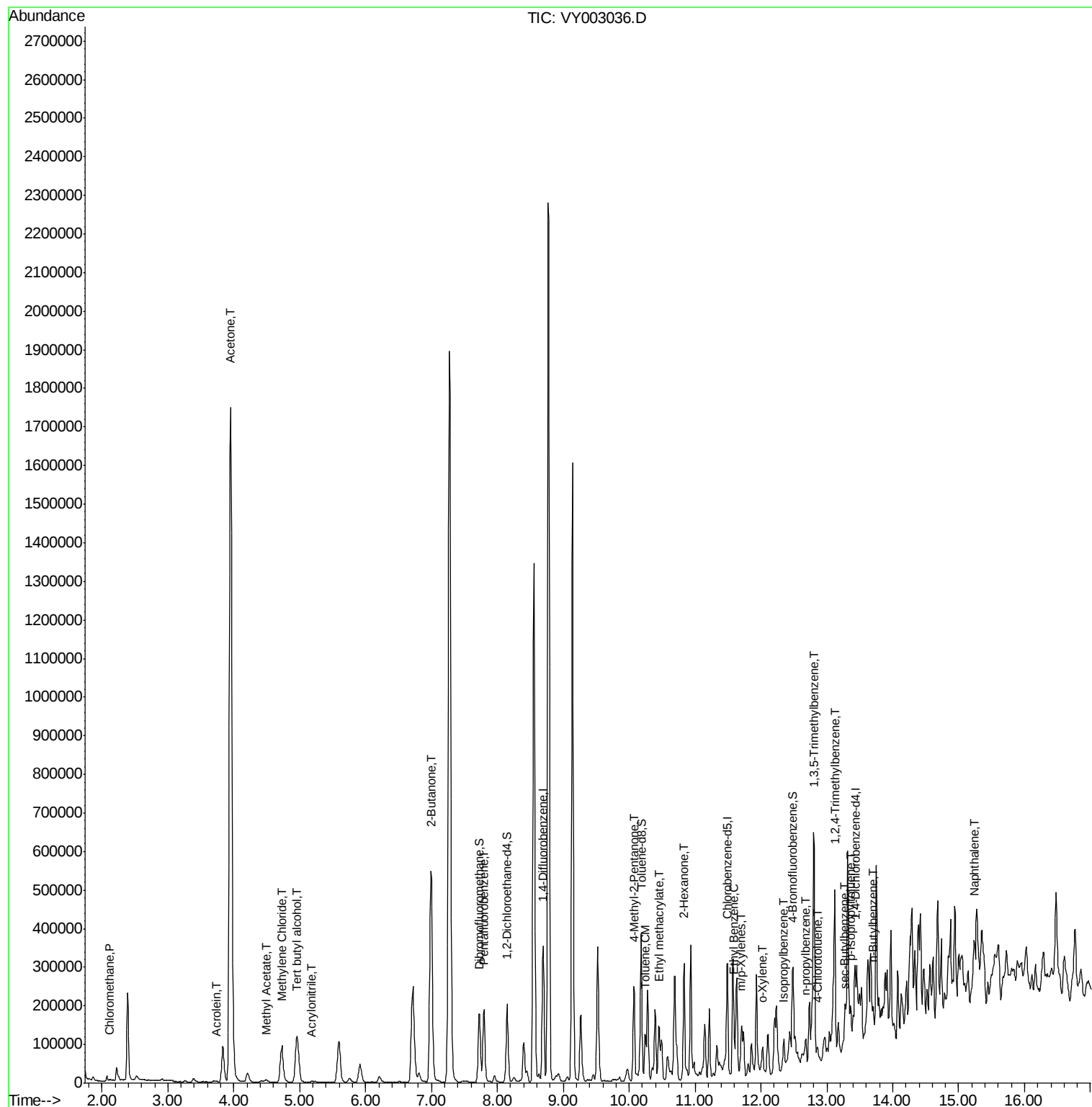
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY063020\
Data File : VY003036.D
Acq On : 30 Jun 2020 15:40
Operator : SY/MD
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ALS Vial : 12 Sample Multiplier: 1

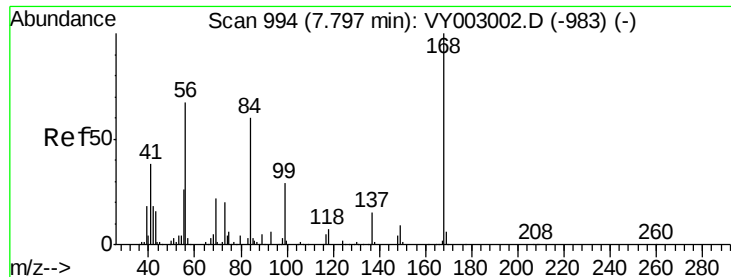
Instrument :
MSVOA_Y
ClientSampleId :
72-11982RE

Manual Integrations
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Quant Time: Jul 01 06:30:08 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: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampleId :

72-11982RE

Tot Ion:168 Resp: 158404

Ion Ratio Lower Upper

168 100

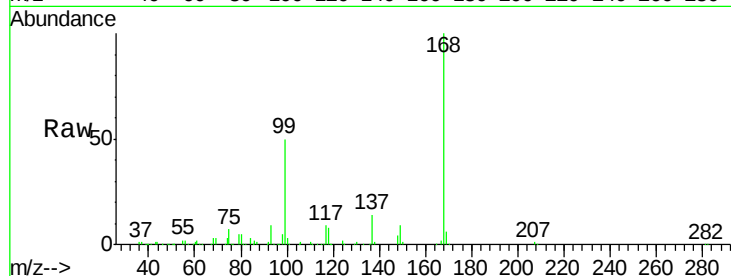
99 49.7 39.2 58.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VY003002.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY003002.D (-983) (-)

7.80

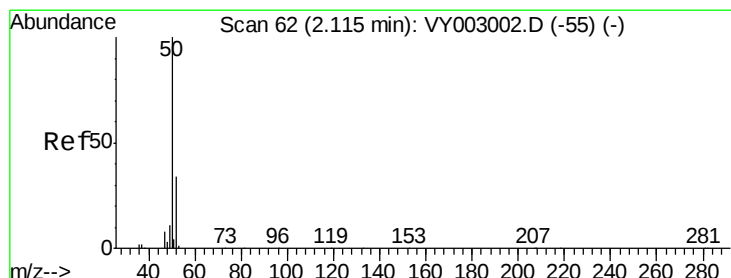
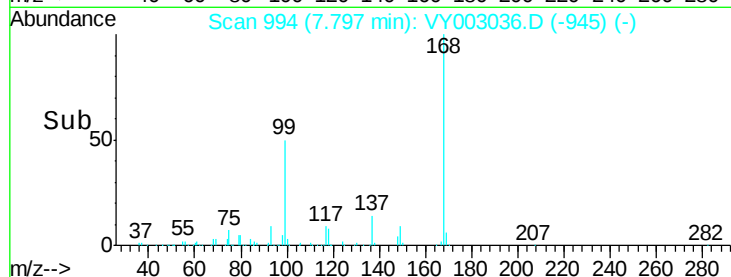
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 1.057 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003036.D

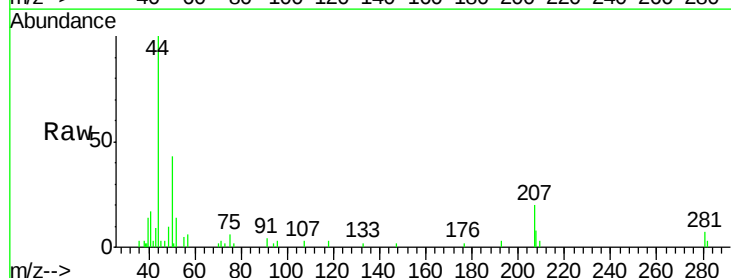
Acq: 30 Jun 2020 15:40

Tgt Ion: 50 Resp: 1856

Ion Ratio Lower Upper

50 100

52 32.4 26.9 40.3



Abundance Ion 49.90 (49.60 to 50.60): VY003002.D (-55) (-)

Ion 51.90 (51.60 to 52.60): VY003002.D (-55) (-)

2.12

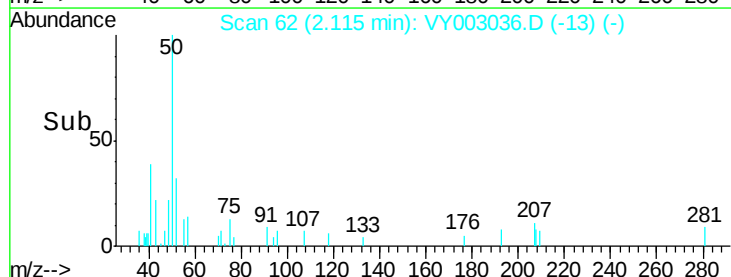
1500

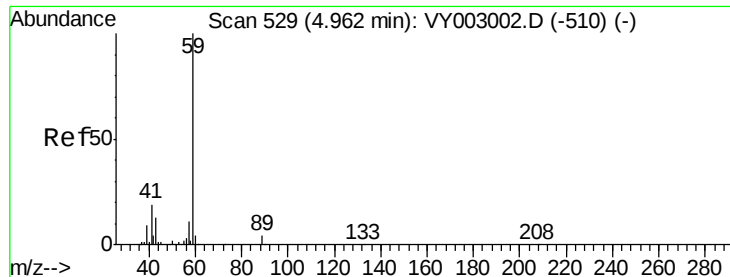
1000

500

0

Time-->





#11

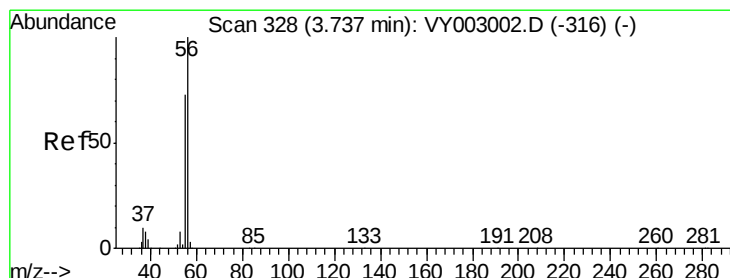
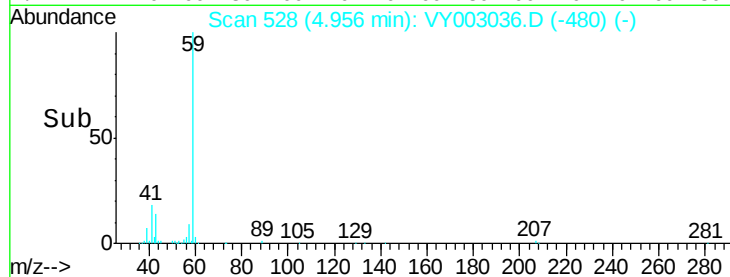
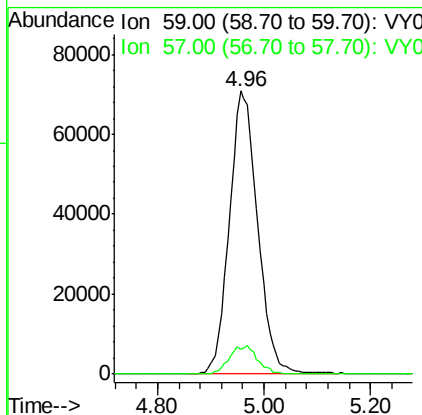
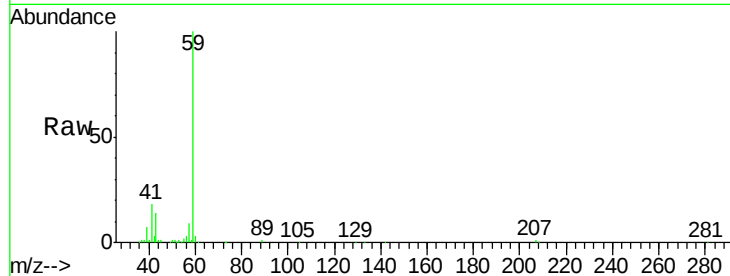
Tert butyl alcohol
 Concen: 1638.100 ug/l
 RT: 4.96 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: VY003036.D
 Acq: 30 Jun 2020 15:40

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11982RE

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.0	12.0

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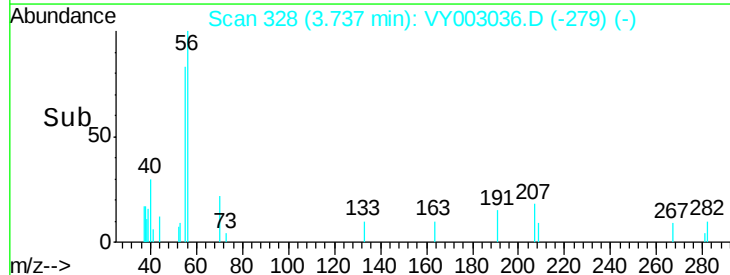
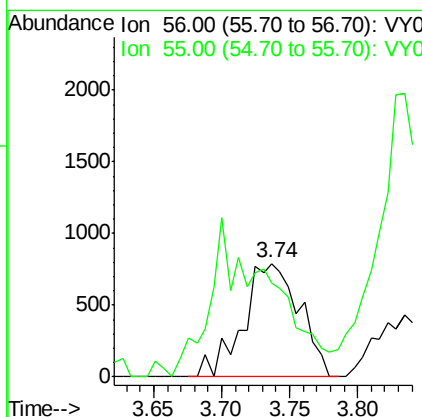
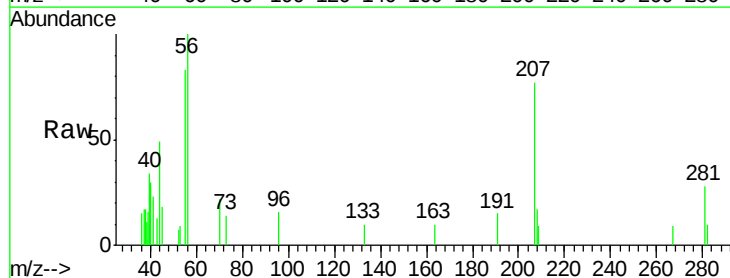
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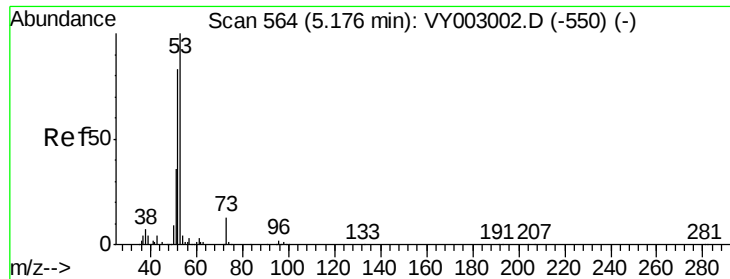


#13

Acrolein
 Concen: 15.895 ug/l
 RT: 3.74 min Scan# 328
 Delta R.T. -0.00 min
 Lab File: VY003036.D
 Acq: 30 Jun 2020 15:40

Tgt Ion	Ratio	Lower	Upper
56	100		
55	0.0	56.4	84.6





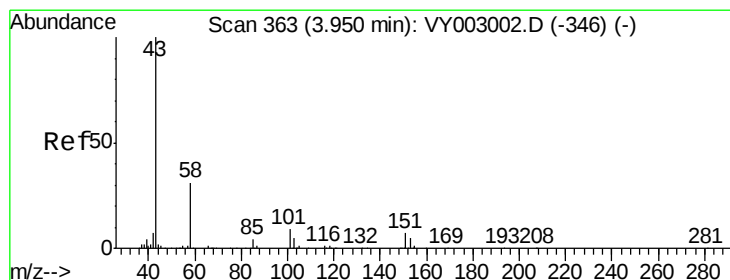
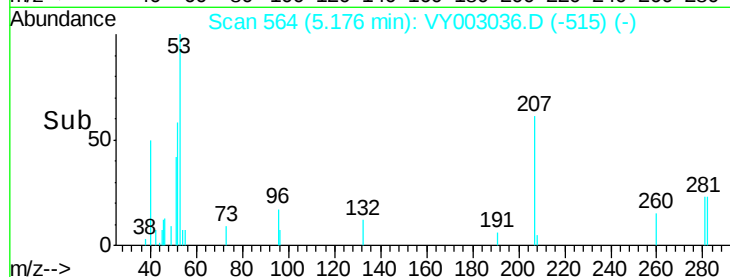
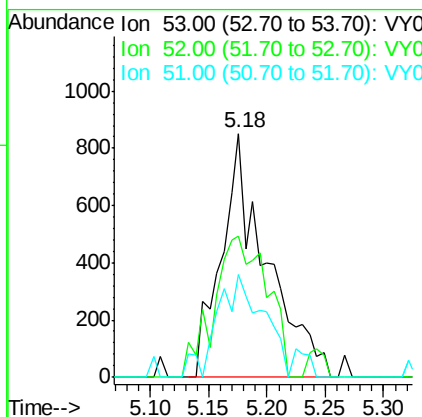
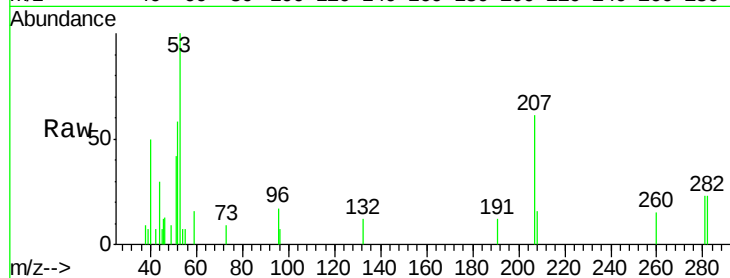
#15
Acrylonitrile
Concen: 5.319 ug/l
RT: 5.18 min Scan# 564
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Instrument :
MSVOA_Y
ClientSampled :
72-11982RE

Tot Ion	Ratio	Lower	Upper
53	100		
52	68.7	66.2	99.2
51	43.5	29.5	44.3

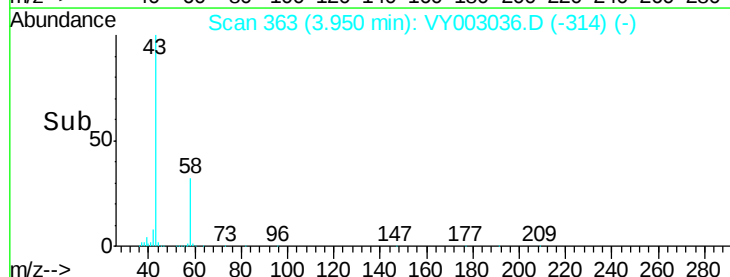
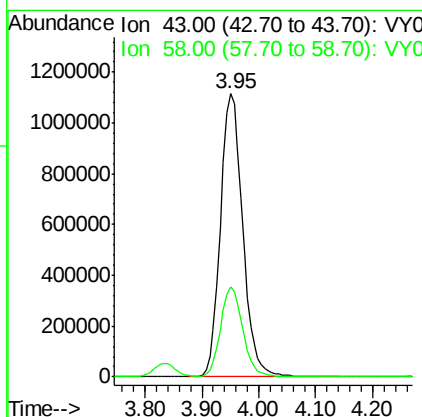
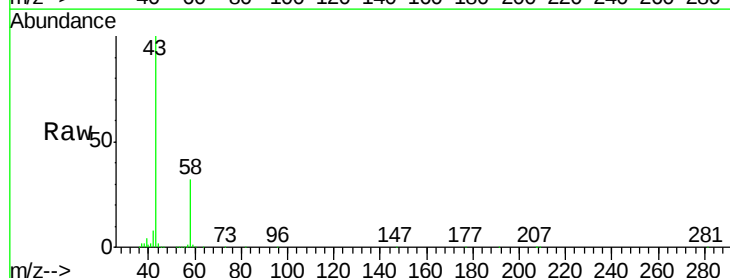
Manual Integrations
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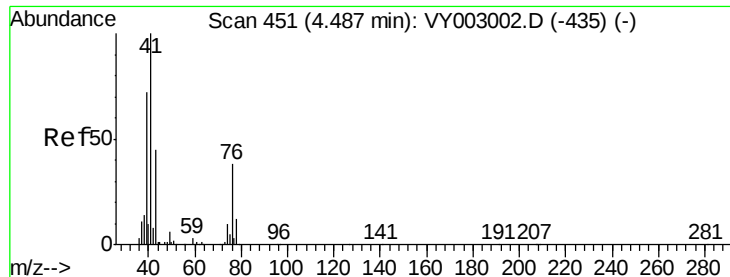
sam
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#16
Acetone
Concen: 8190.681 ug/l
RT: 3.95 min Scan# 363
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.6	24.7	37.1





#18

Methyl Acetate

Concen: 13.198 ug/l

RT: 4.48 min Scan# 450

Delta R.T. -0.01 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampleId :

72-11982RE

Tot Ion: 43 Resp: 13194

Ion Ratio Lower Upper

43 100

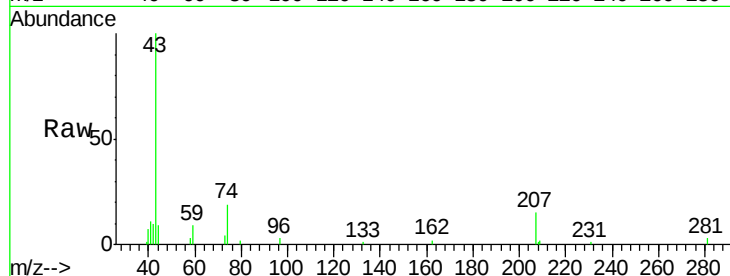
74 23.9 18.2 27.4

Manual Integrations

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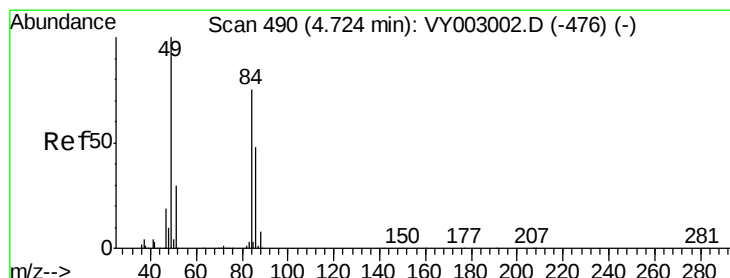
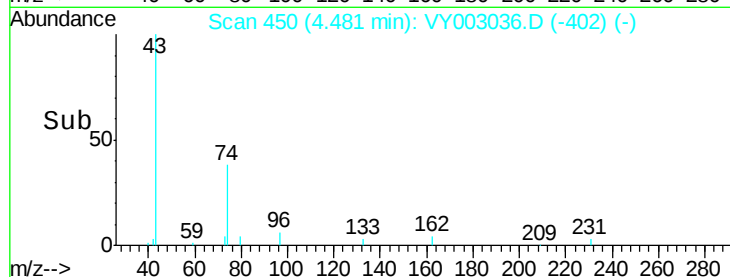
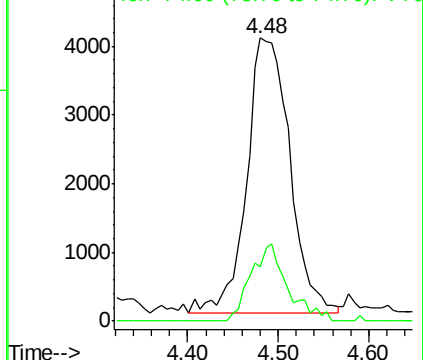
sam

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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0



#20

Methylene Chloride

Concen: 42.756 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Tgt Ion: 84 Resp: 72467

Ion Ratio Lower Upper

84 100

49 115.6 106.8 160.2

51 39.7 32.0 48.0

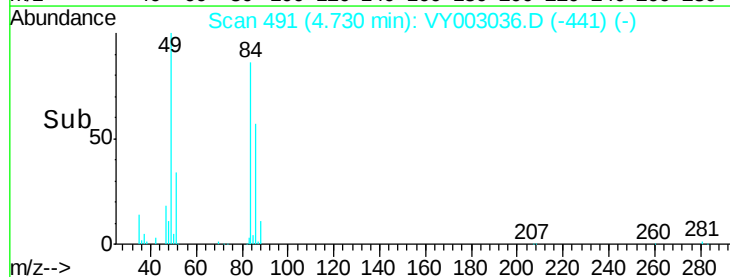
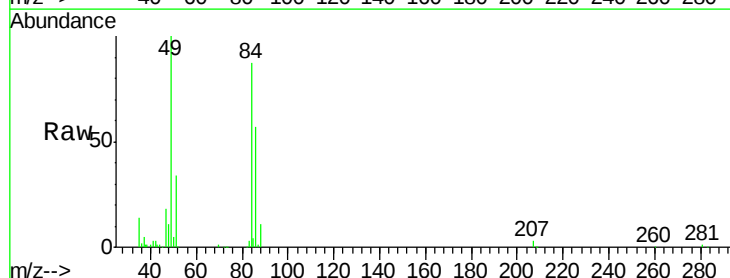
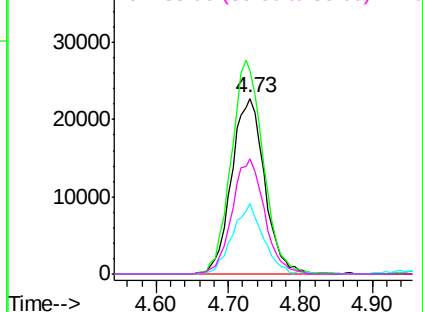
86 65.3 51.4 77.2

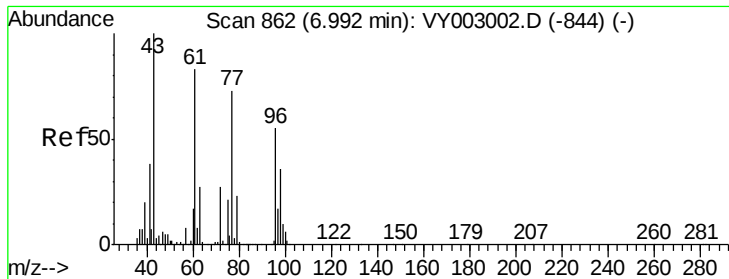
Abundance Ion 83.90 (83.60 to 84.60): VY0

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





#25

2-Butanone

Concen: 1455.627 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.00 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampleId :

72-11982RE

Tot Ion: 43 Resp: 857974

Ion Ratio Lower Upper

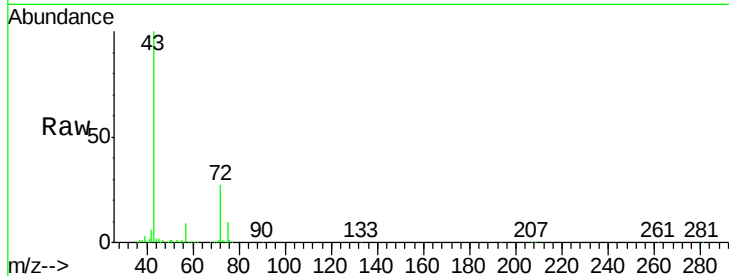
43 100

72 27.3 21.4 32.0

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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

800000

600000

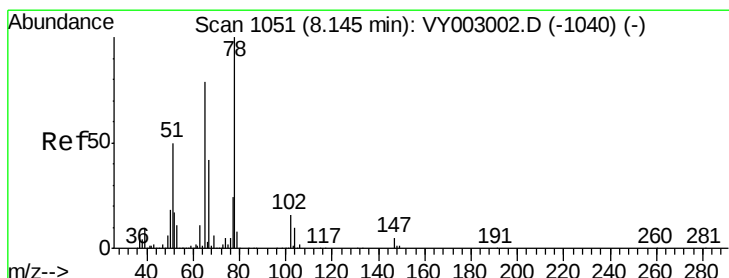
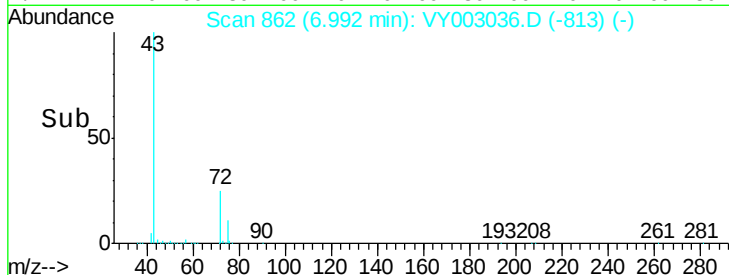
400000

200000

0

6.80 6.90 7.00 7.10 7.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: 94.616 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003036.D

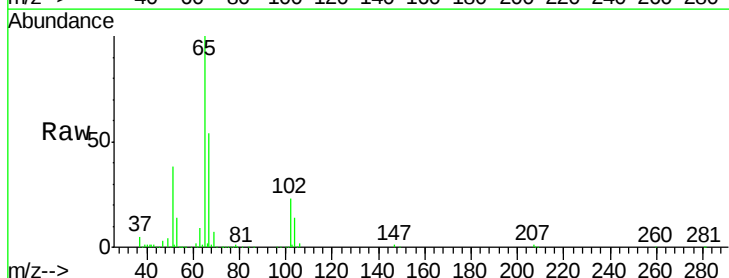
Acq: 30 Jun 2020 15:40

Tgt Ion: 65 Resp: 148857

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

80000

60000

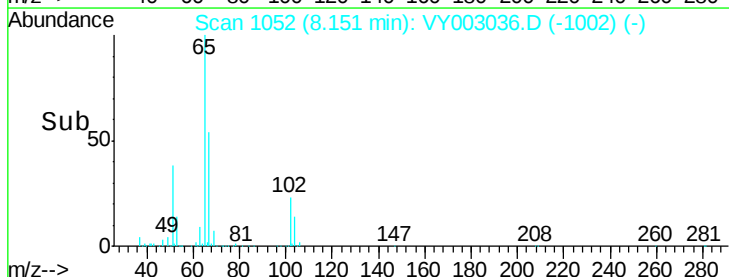
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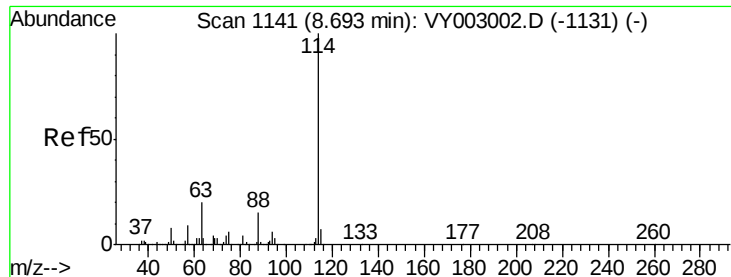
20000

0

8.10 8.20

Time-->





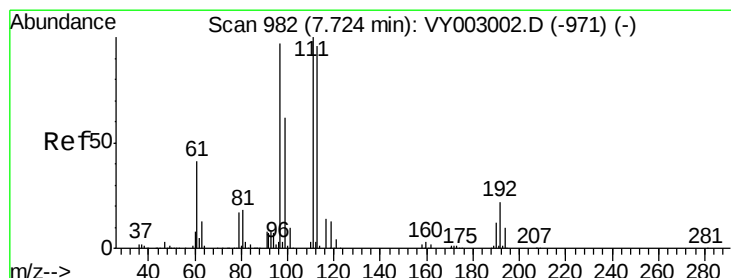
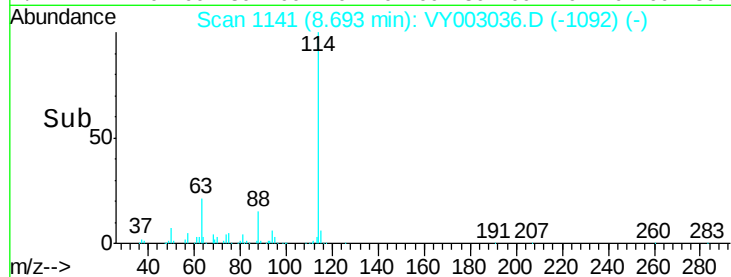
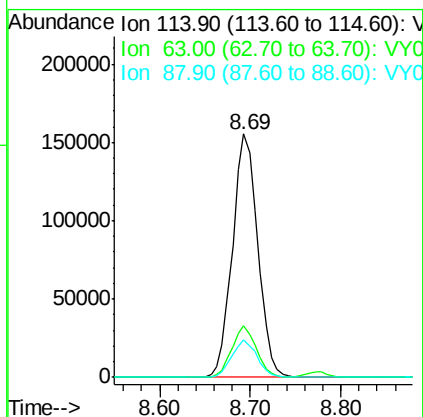
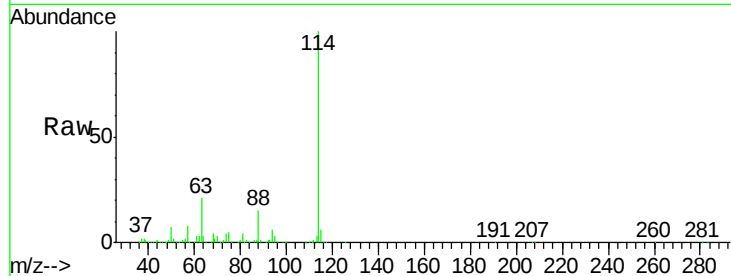
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: VY003036.D
 Acq: 30 Jun 2020 15:40

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11982RE

Tot Ion	Ratio	Resp	Lower	Upper
114	100	300764		
63	21.1		0.0	40.6
88	15.4		0.0	30.0

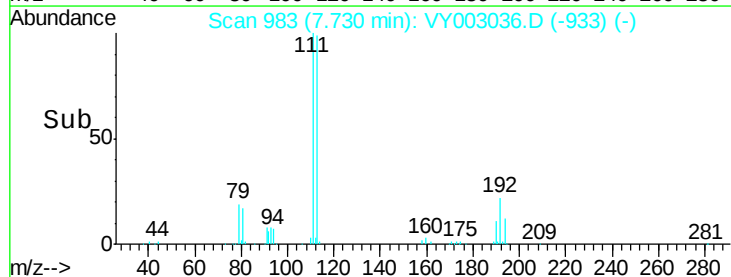
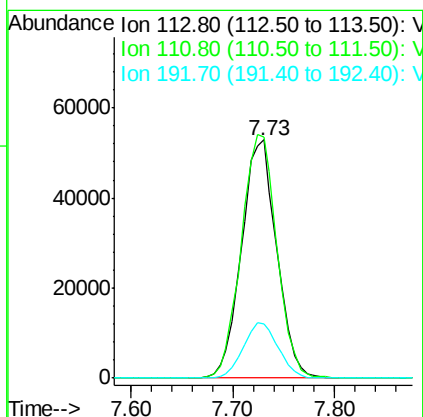
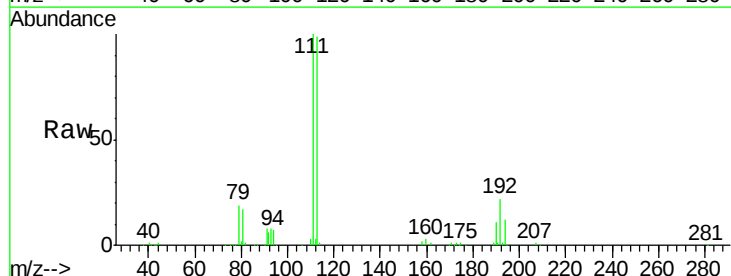
Manual Integrations
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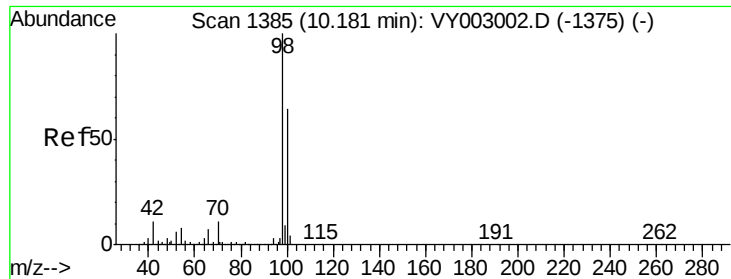
Sam
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#35
 Dibromofluoromethane
 Concen: 67.660 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.01 min
 Lab File: VY003036.D
 Acq: 30 Jun 2020 15:40

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	126944		
111	103.7		82.6	123.8
192	23.1		18.1	27.1





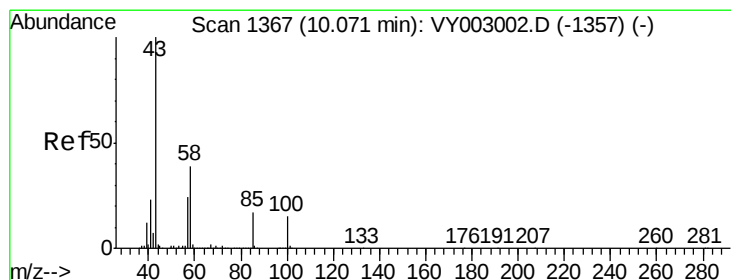
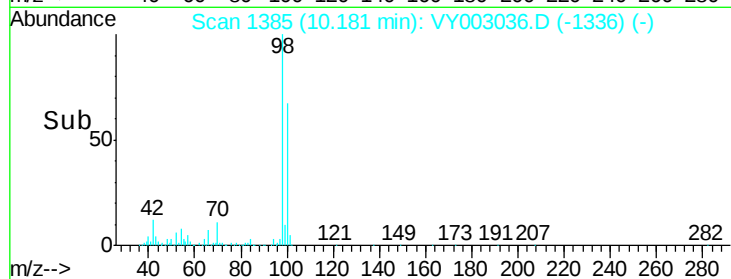
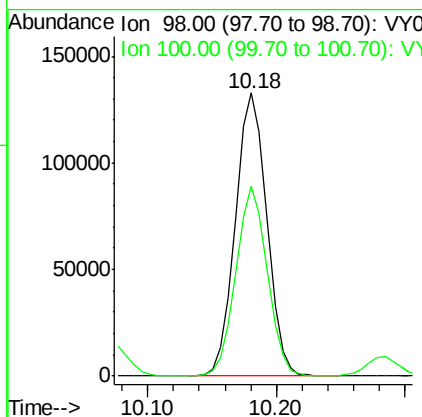
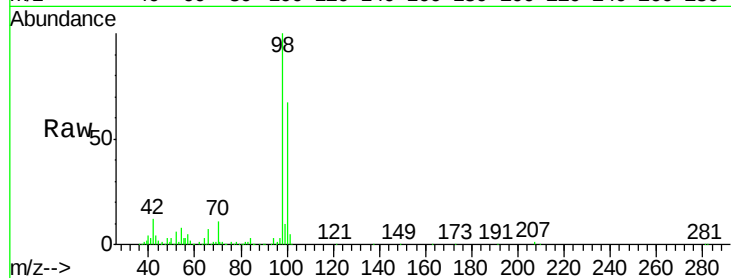
#50
Toluene-d8
Concen: 32.189 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Instrument :
MSVOA_Y
ClientSampleId :
72-11982RE

Tot Ion: 98 Resp: 224990
Ion Ratio Lower Upper
98 100
100 66.8 51.1 76.7

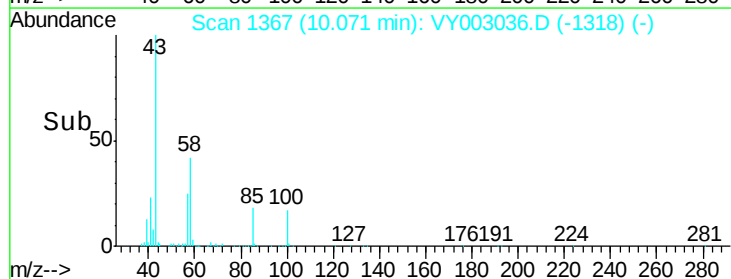
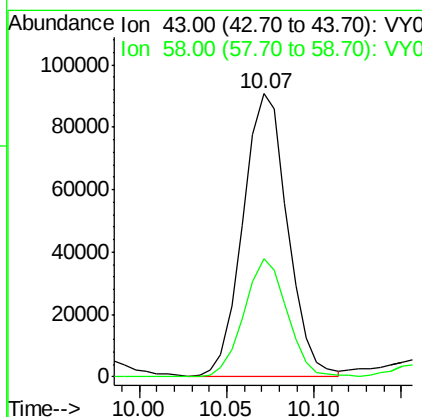
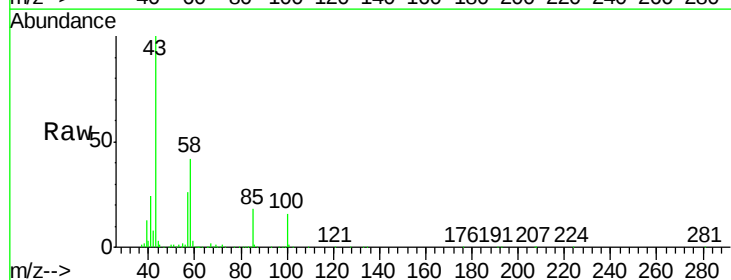
Manual Integrations
APPROVED

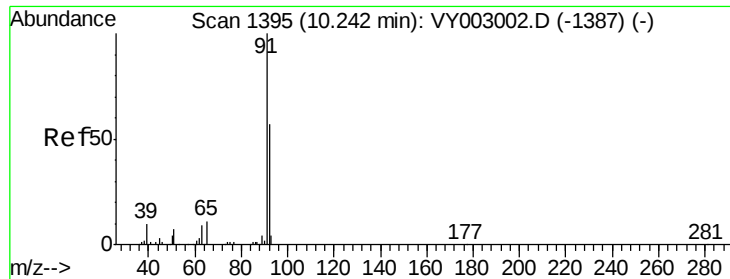
sam
7/1/2020 10:11:38 PM



#51
4-Methyl-2-Pentanone
Concen: 93.370 ug/l
RT: 10.07 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Tgt Ion: 43 Resp: 159804
Ion Ratio Lower Upper
43 100
58 40.8 31.1 46.7





#52

Toluene

Concen: 9.934 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. -0.00 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampleId :

72-11982RE

Tot Ion: 92 Resp: 49601

Ion Ratio Lower Upper

92 100

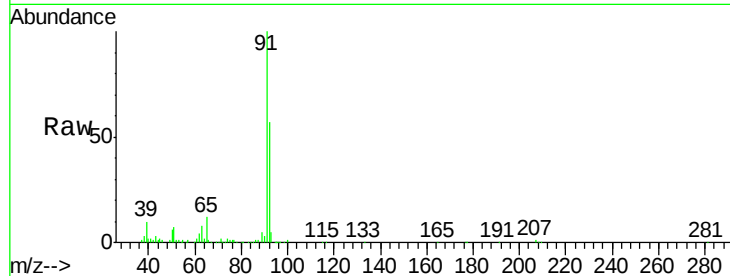
91 172.6 139.6 209.4

Manual Integrations

APPROVED

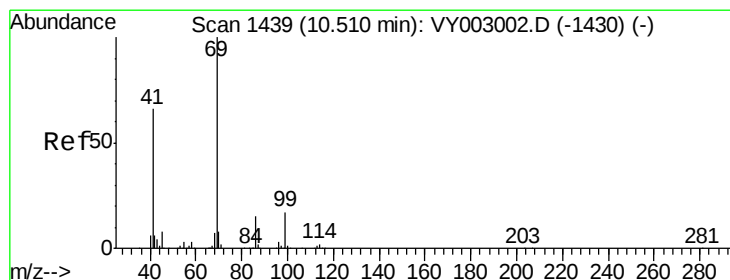
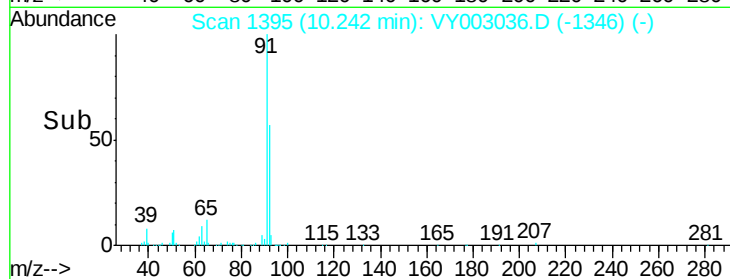
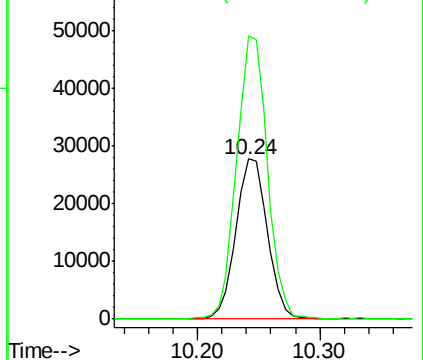
sam

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Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0



#56

Ethyl methacrylate

Concen: 28.227 ug/l

RT: 10.45 min Scan# 1429

Delta R.T. -0.06 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

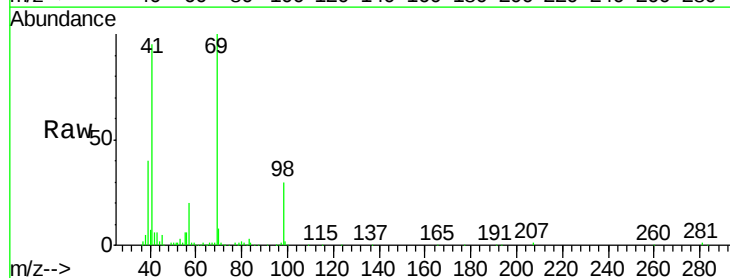
Tgt Ion: 69 Resp: 67669

Ion Ratio Lower Upper

69 100

41 104.9 53.7 80.5#

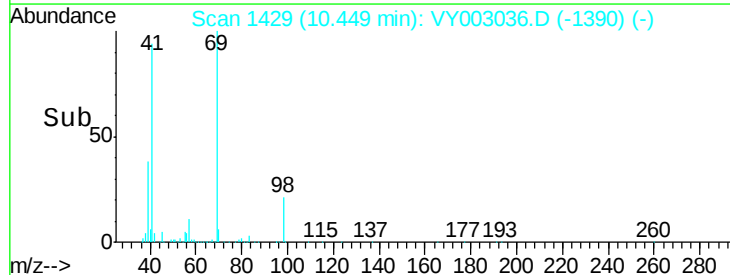
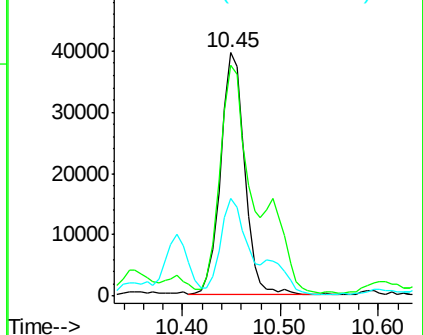
39 38.9 28.3 42.5

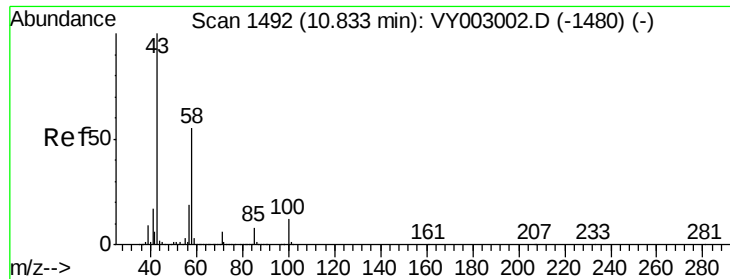


Abundance Ion 69.00 (68.70 to 69.70): VY0

Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0





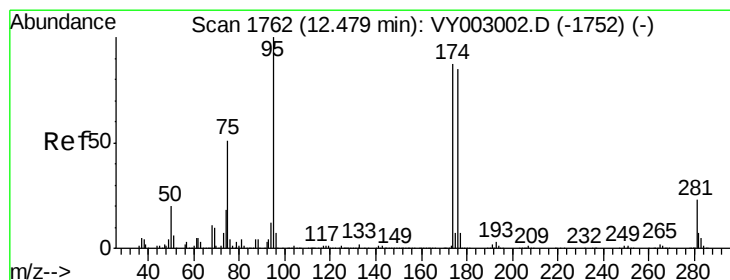
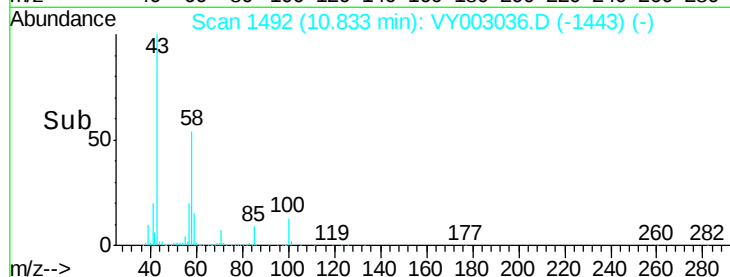
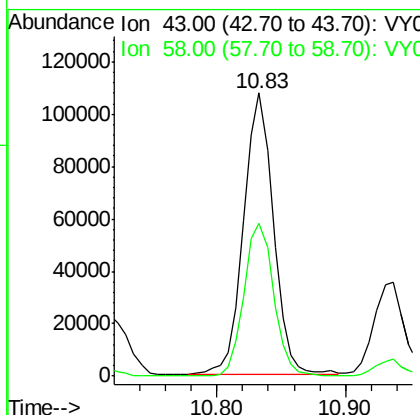
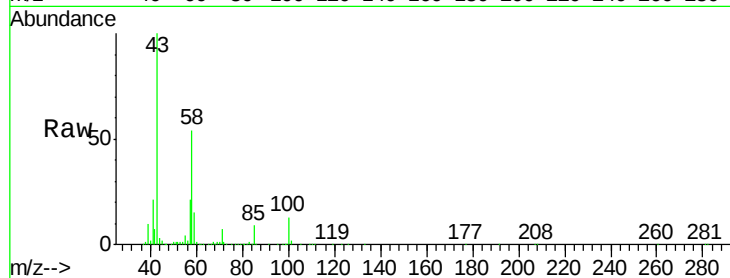
#59
2-Hexanone
Concen: 144.623 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Instrument :
MSVOA_Y
ClientSampleId :
72-11982RE

Tot Ion: 43 Resp: 173012
Ion Ratio Lower Upper
43 100
58 53.8 27.5 82.4

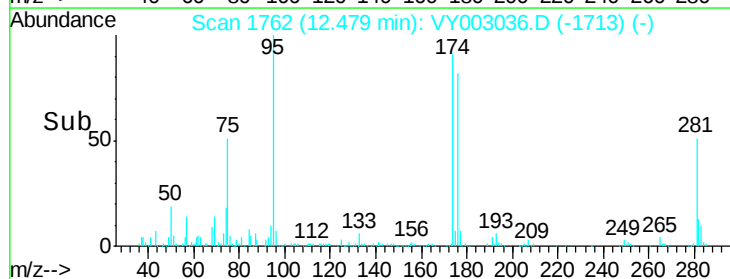
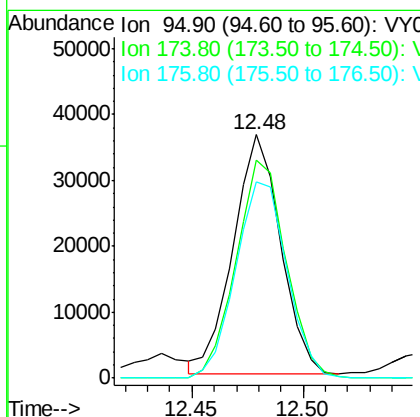
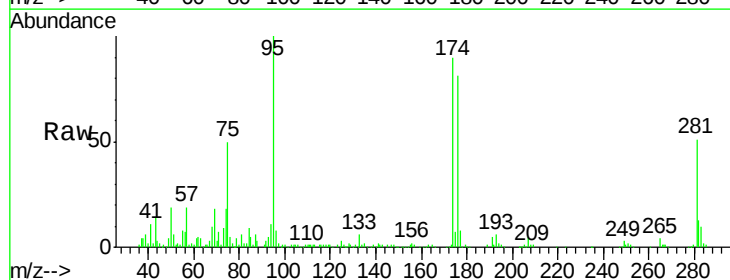
Manual Integrations
APPROVED

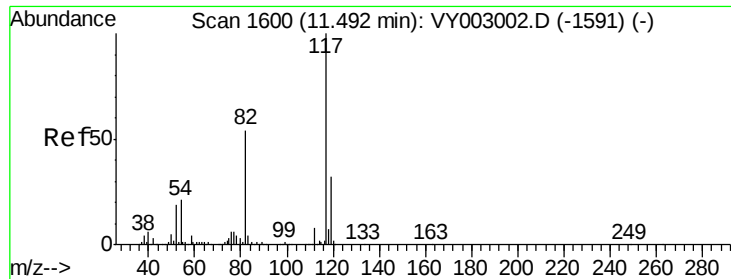
sam
7/1/2020 10:11:38 PM



#62
4-Bromofluorobenzene
Concen: 21.968 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Tgt Ion: 95 Resp: 54051
Ion Ratio Lower Upper
95 100
174 95.9 0.0 184.8
176 88.7 0.0 183.0





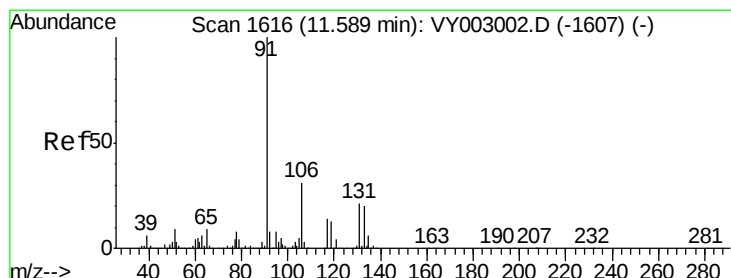
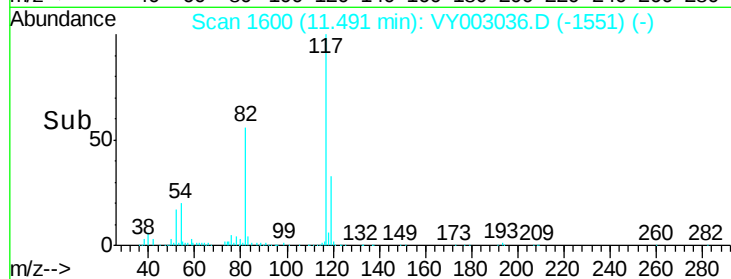
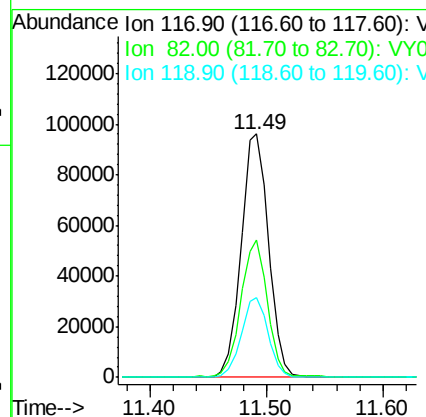
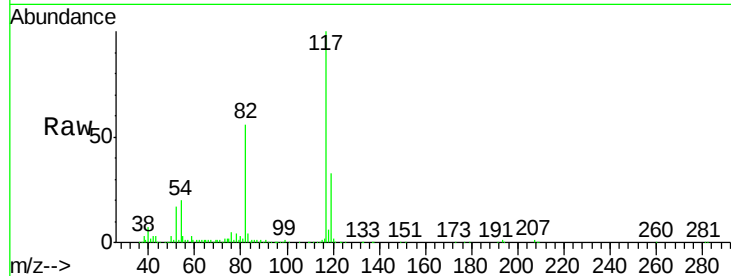
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Instrument :
MSVOA_Y
ClientSampleId :
72-11982RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	43.0	64.6
119	32.8	25.8	38.8

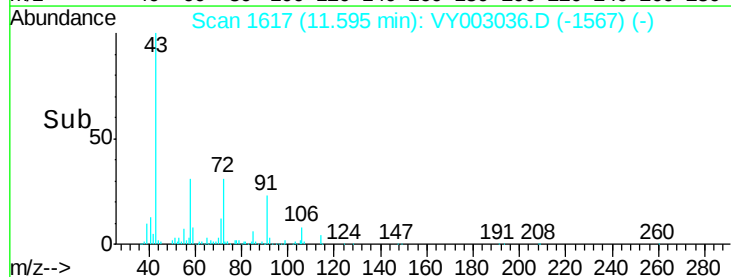
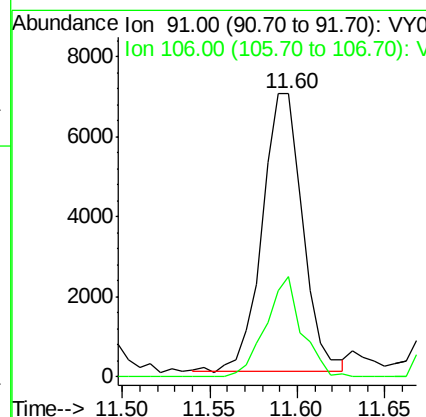
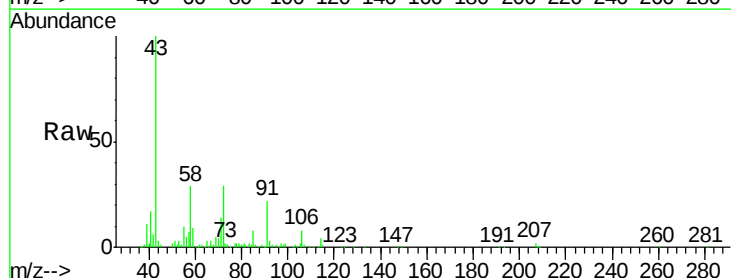
Manual Integrations
APPROVED

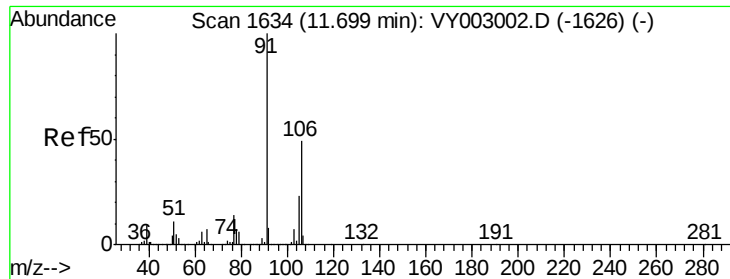
sam
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#67
Ethyl Benzene
Concen: 1.957 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.4	25.0	37.4





#68

m/p-Xylenes

Concen: 9.709 ug/l

RT: 11.69 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampled :

72-11982RE

Tot Ion:106 Resp: 20562

Ion Ratio Lower Upper

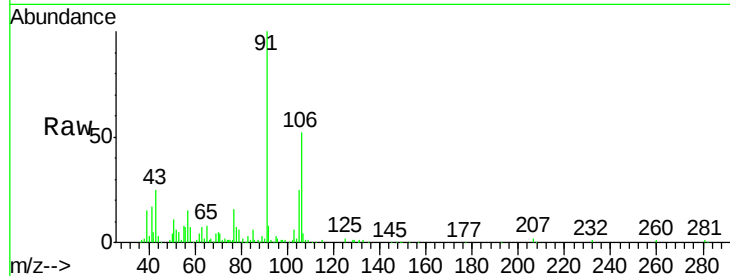
106 100

91 196.9 161.9 242.9

Manual Integrations
APPROVED

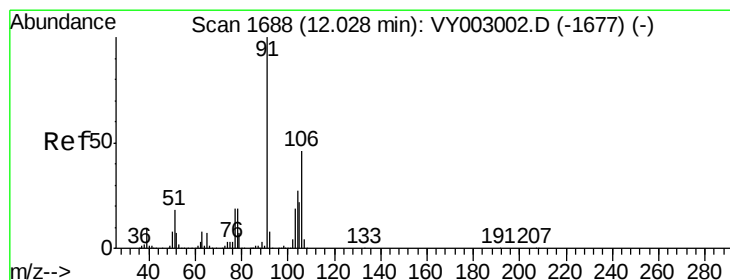
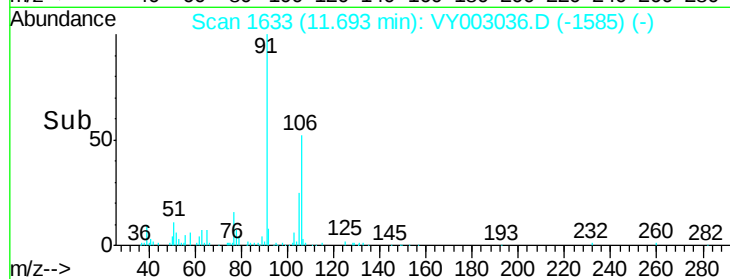
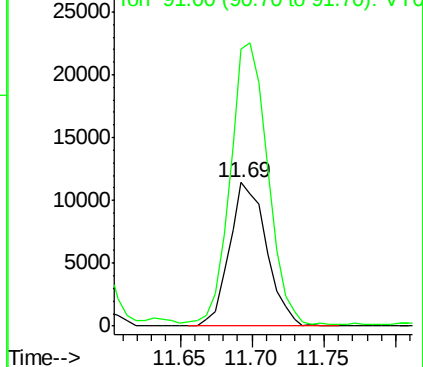
sam

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 4.980 ug/l

RT: 12.03 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VY003036.D

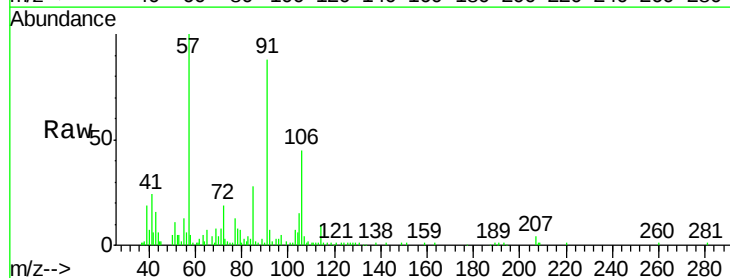
Acq: 30 Jun 2020 15:40

Tgt Ion:106 Resp: 9938

Ion Ratio Lower Upper

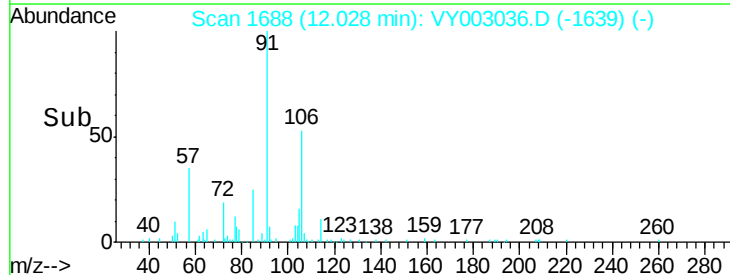
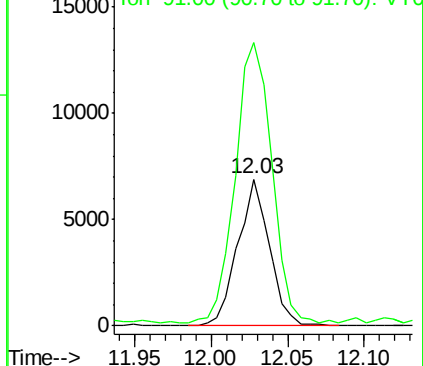
106 100

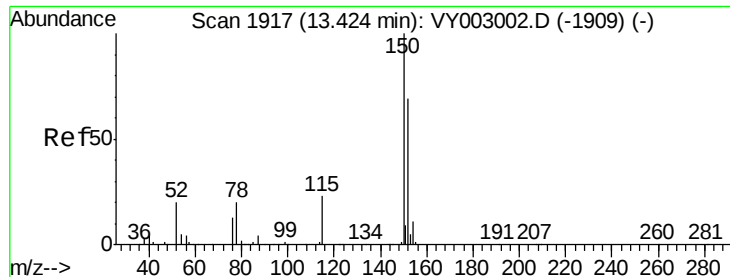
91 219.6 107.9 323.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#72

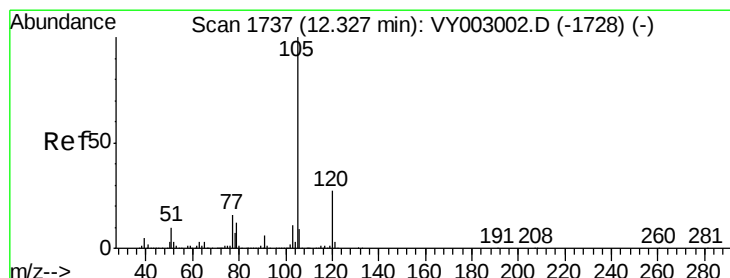
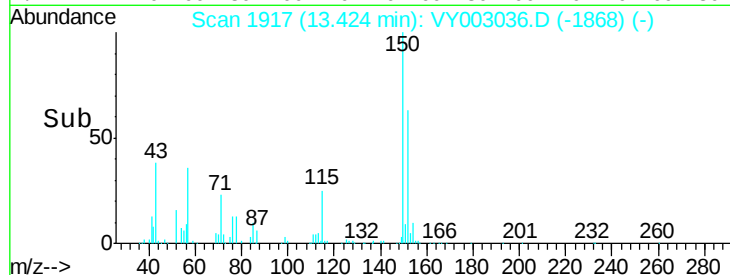
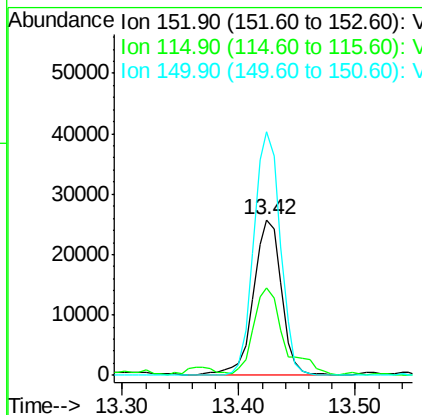
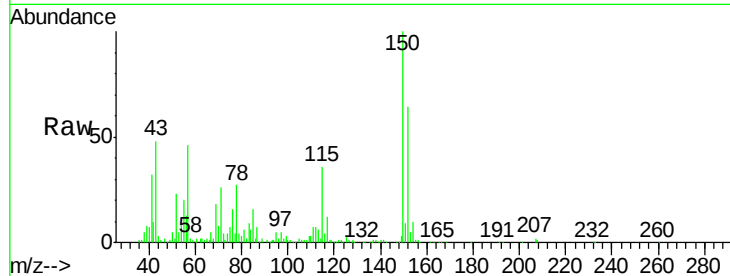
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Instrument :
MSVOA_Y
ClientSampleId :
72-11982RE

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.2	27.3	81.9
150	147.8	0.0	343.4

Manual Integrations
APPROVED

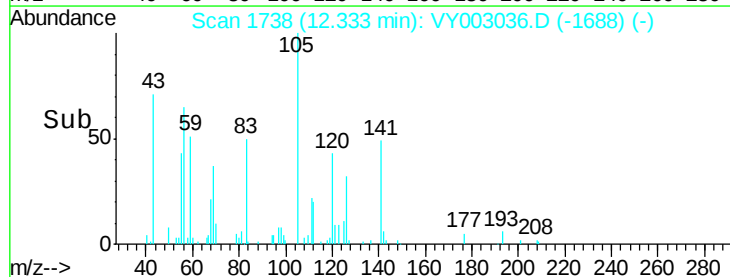
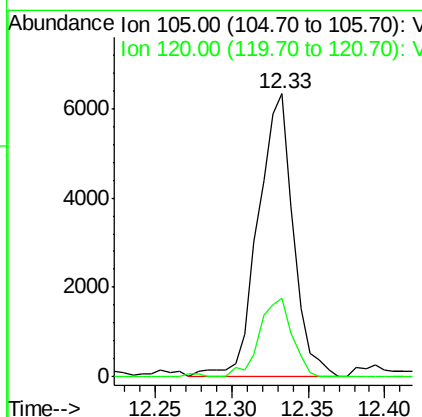
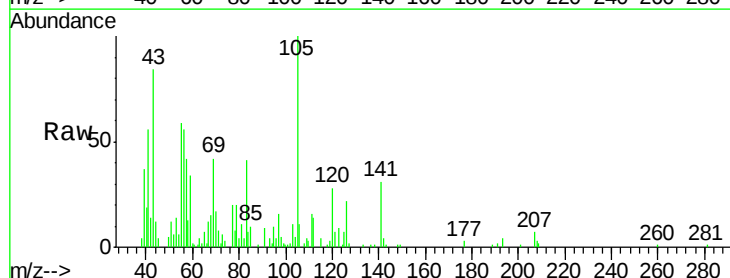
sam
7/1/2020 10:11:38 PM

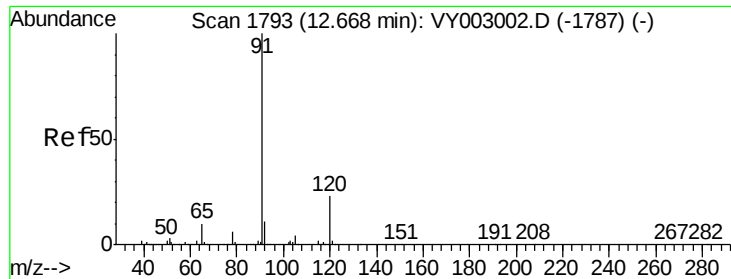


#73

Isopropylbenzene
Concen: 3.599 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. 0.01 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.4	40.1





#78

n-propylbenzene

Concen: 4.918 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. -0.00 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampled :

72-11982RE

Tot Ion: 91 Resp: 16715

Ion Ratio Lower Upper

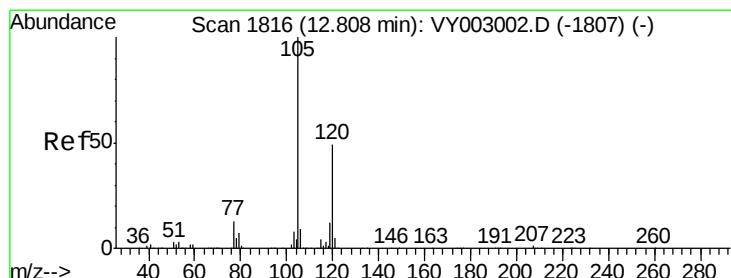
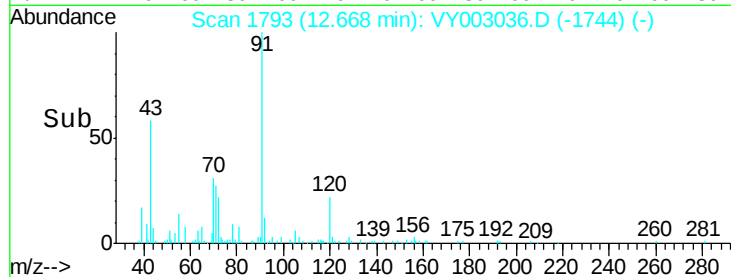
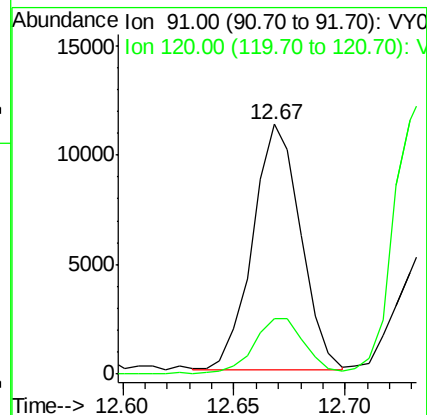
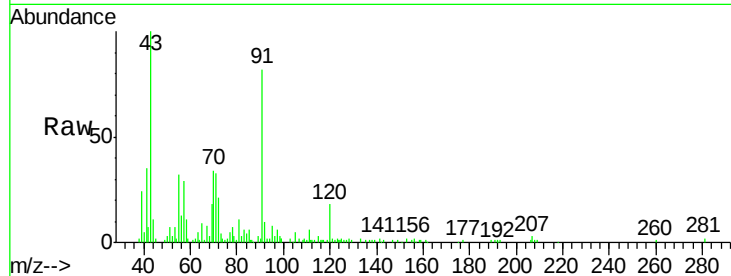
91 100

120 24.4 11.5 34.5

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 22.002 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VY003036.D

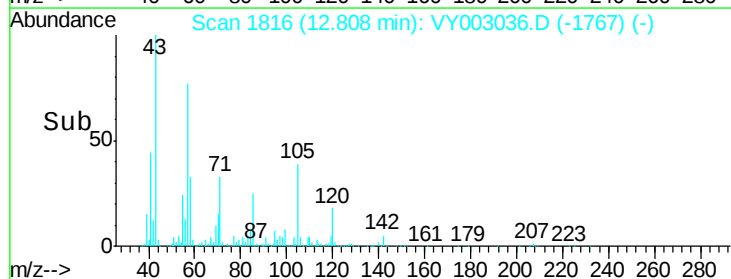
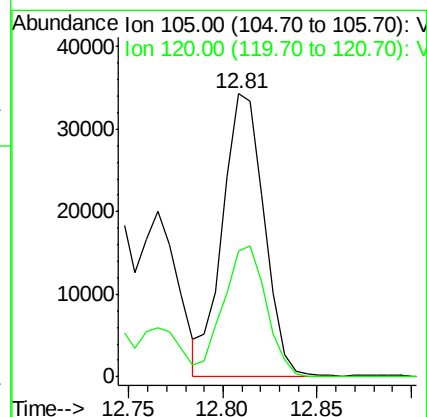
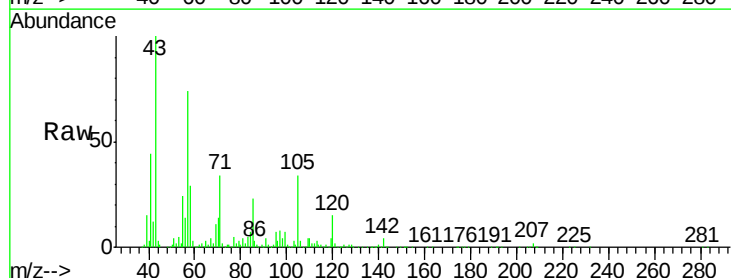
Acq: 30 Jun 2020 15:40

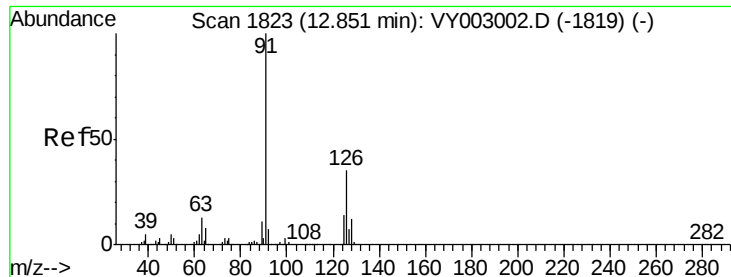
Tgt Ion: 105 Resp: 52180

Ion Ratio Lower Upper

105 100

120 48.2 24.6 73.6





#82

4-Chlorotoluene

Concen: 2.537 ug/l m

RT: 12.85 min Scan# 1823

Delta R.T. -0.00 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampleId :

72-11982RE

Tot Ion: 91 Resp: 5012

Ion Ratio Lower Upper

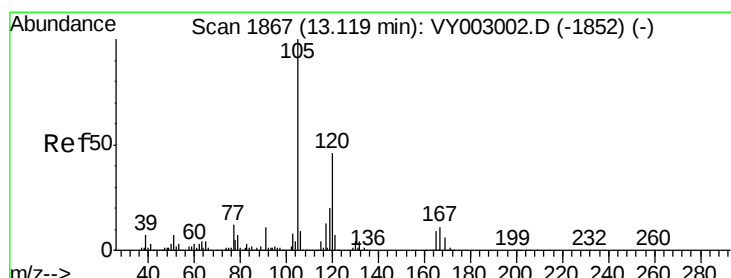
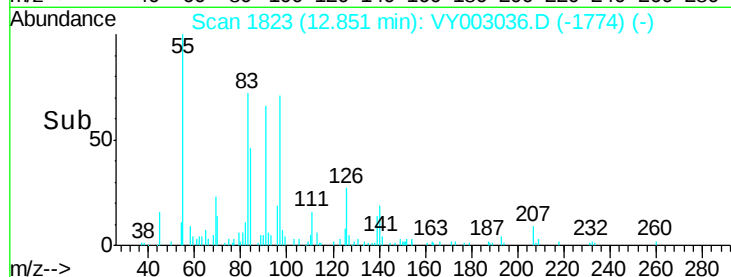
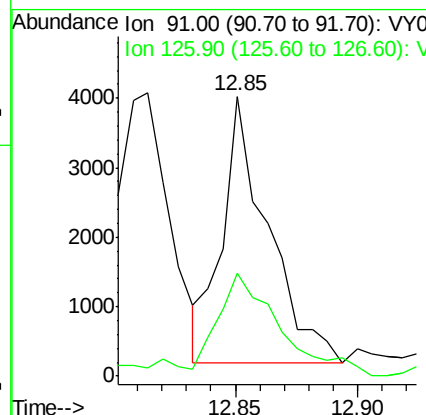
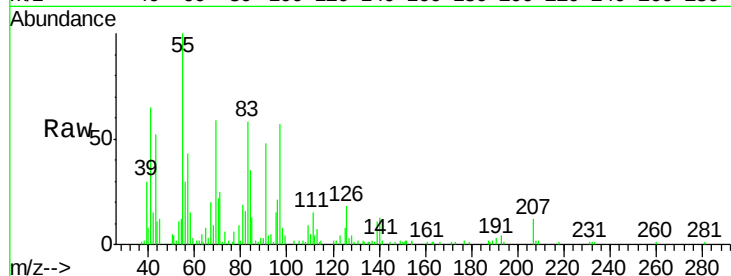
91 100

126 5.5 17.4 52.3#

Manual Integrations
APPROVED

sam

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#84

1,2,4-Trimethylbenzene

Concen: 93.846 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY003036.D

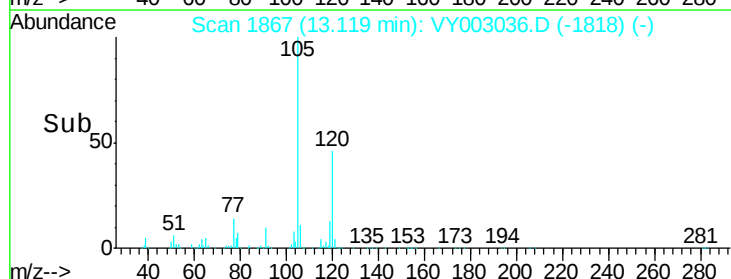
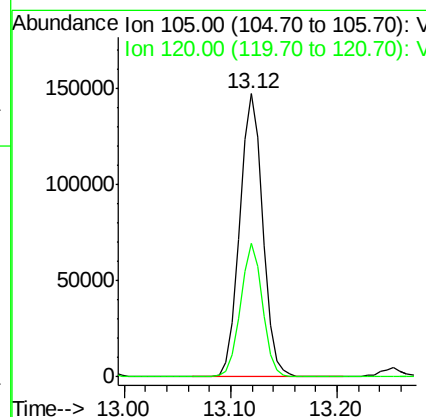
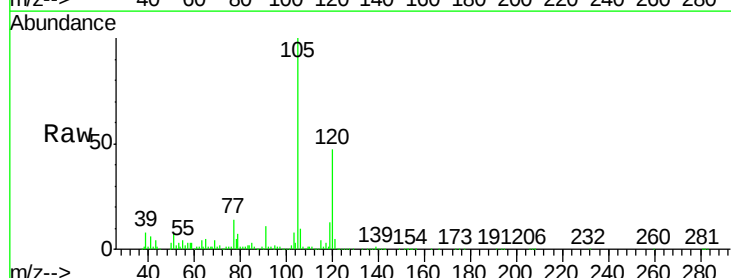
Acq: 30 Jun 2020 15:40

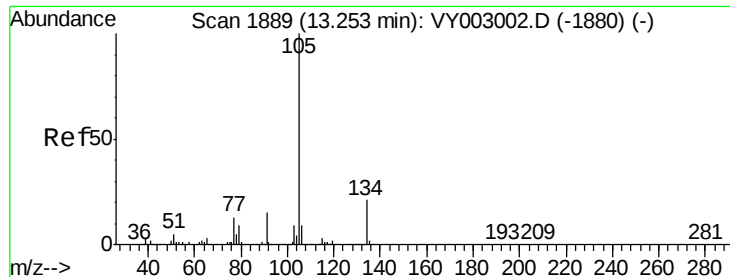
Tgt Ion: 105 Resp: 224275

Ion Ratio Lower Upper

105 100

120 44.8 22.6 67.8





#85

sec-Butylbenzene

Concen: 2.308 ug/l m

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

Instrument :

MSVOA_Y

ClientSampled :

72-11982RE

Tot Ion:105 Resp: 6626

Ion Ratio Lower Upper

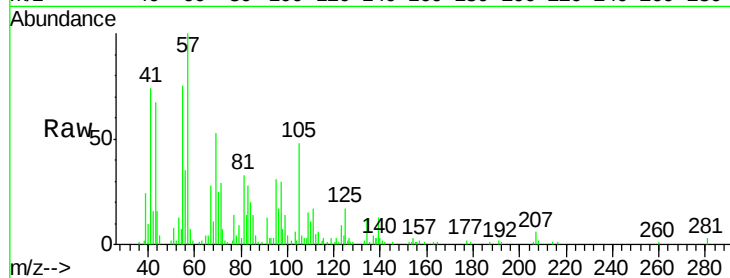
105 100

134 0.0 10.4 31.2#

Manual Integrations
APPROVED

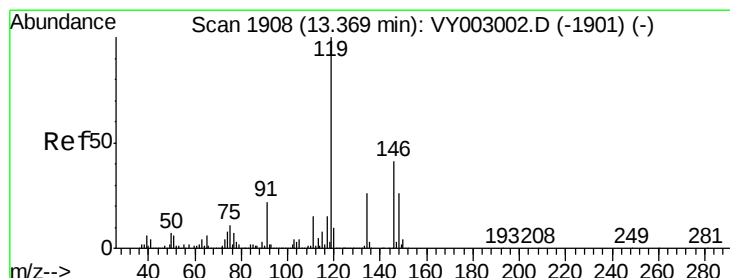
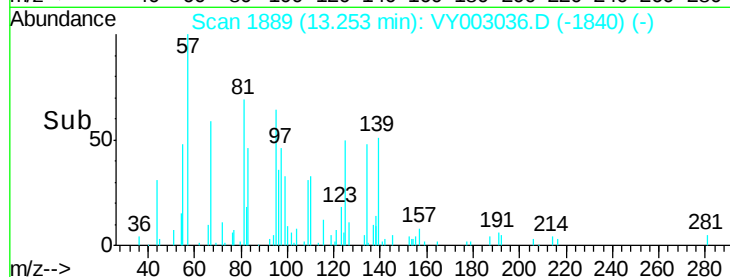
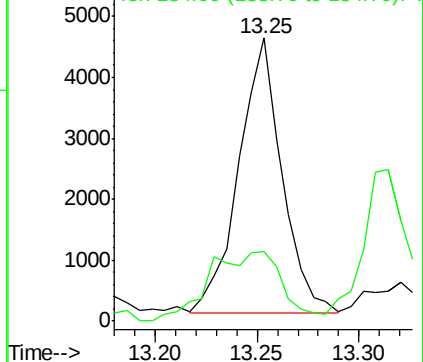
sam

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 8.666 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY003036.D

Acq: 30 Jun 2020 15:40

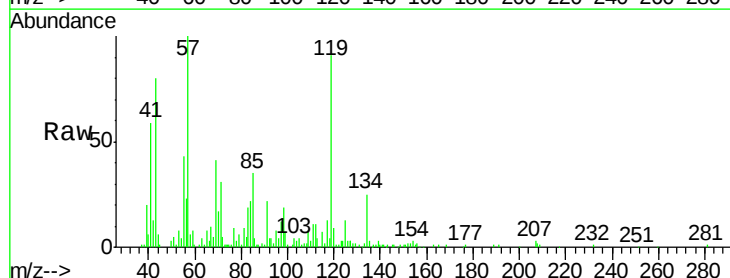
Tgt Ion:119 Resp: 23049

Ion Ratio Lower Upper

119 100

134 27.6 13.5 40.4

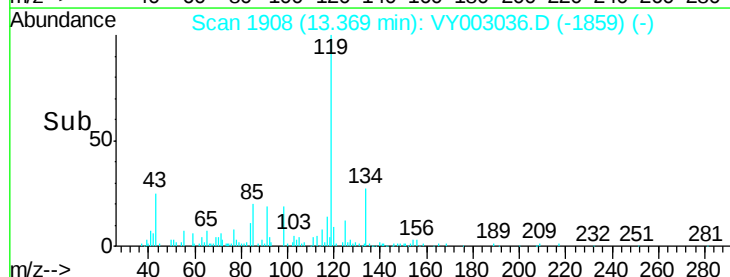
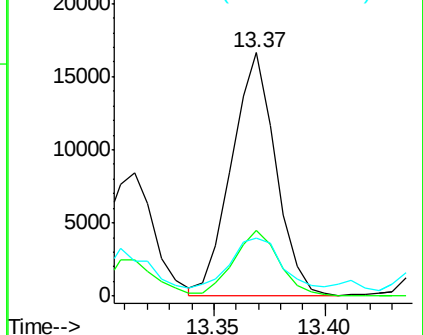
91 22.3 11.5 34.5

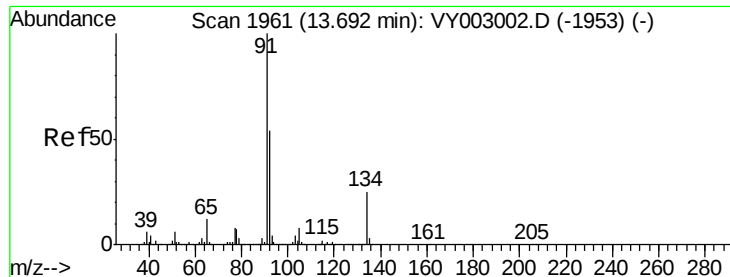


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





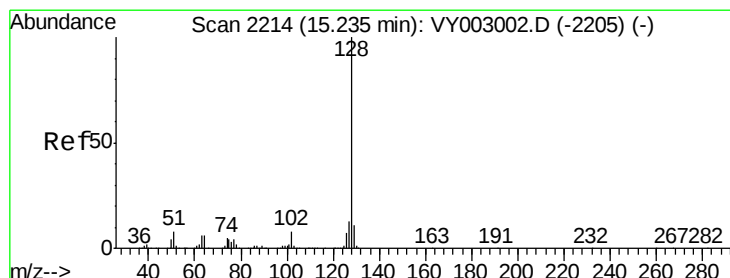
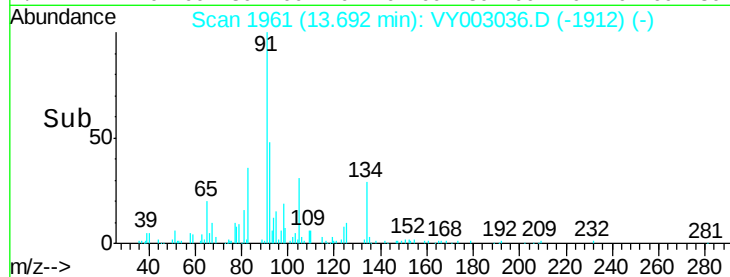
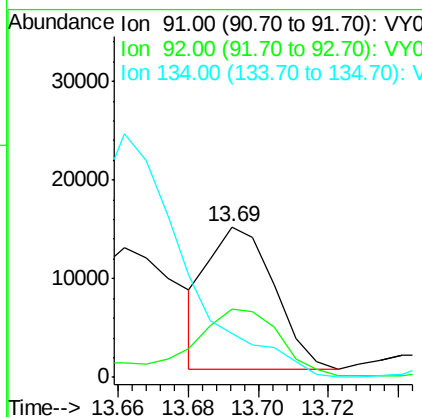
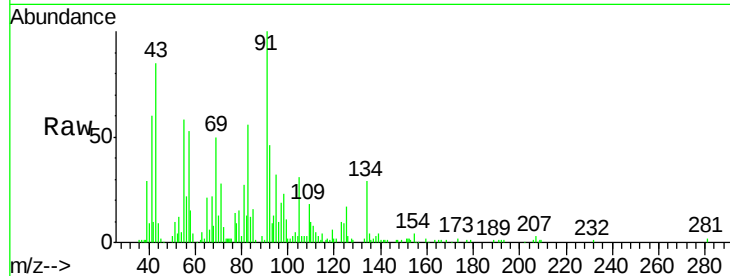
#89
n-Butylbenzene
Concen: 7.423 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Instrument :
MSVOA_Y
ClientSampleId :
72-11982RE

Tot Ion	Ratio	Lower	Upper
91	100		
92	67.7	26.8	80.3
134	0.0	13.1	39.1#

Manual Integrations
APPROVED

sam
7/1/2020 10:11:38 PM



#95
Naphthalene
Concen: 68.365 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VY003036.D
Acq: 30 Jun 2020 15:40

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.9	10.8	16.2
129	11.7	8.8	13.2

