

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112520\
 Data File : VN064857.D
 Acq On : 25 Nov 2020 15:30
 Operator : JC/MD
 Sample : L4895-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-56-67

Manual Integrations
 APPROVED

SAM
 11/27/2020 1:37:53 PM

Quant Time: Nov 26 04:39:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.78	168	190846	50.00	ug/l	0.16
34) 1,4-Difluorobenzene	8.66	114	329286	50.00	ug/l	0.11
63) Chlorobenzene-d5	11.40	117	305199	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.32	152	175647	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.13	65	105666	47.62	ug/l	0.14
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.24%
35) Dibromofluoromethane	7.72	113	90583	45.97	ug/l	0.17
Spiked Amount	50.000	Range	69 - 133	Recovery	=	91.94%
50) Toluene-d8	10.11	98	384123	47.71	ug/l	0.05
Spiked Amount	50.000	Range	65 - 126	Recovery	=	95.42%
62) 4-Bromofluorobenzene	12.39	95	162100	56.26	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	112.52%

Target Compounds

					Qvalue
16) Acetone	4.06	43	2226219m	3052.322	ug/l
25) 2-Butanone	6.99	43	26082	22.060	ug/l
39) Methylcyclohexane	9.13	83	4030	1.227	ug/l #
51) 4-Methyl-2-Pentanone	10.01	43	15885	5.593	ug/l
52) Toluene	10.17	92	1018658	176.855	ug/l
67) Ethyl Benzene	11.50	91	19484	1.780	ug/l
68) m/p-Xylenes	11.61	106	18020	4.347	ug/l
69) o-Xylene	11.94	106	13933	3.542	ug/l
73) Isopropylbenzene	12.23	105	6503	0.532	ug/l
78) n-propylbenzene	12.58	91	19064	1.370	ug/l
80) 1,3,5-Trimethylbenzene	12.71	105	20392	2.008	ug/l
84) 1,2,4-Trimethylbenzene	13.02	105	86338	8.409	ug/l
85) sec-Butylbenzene	13.15	105	14320	1.267	ug/l
86) p-Isopropyltoluene	13.27	119	34563	3.359	ug/l
89) n-Butylbenzene	13.59	91	31524m	3.489	ug/l
95) Naphthalene	15.10	128	476283	44.726	ug/l

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

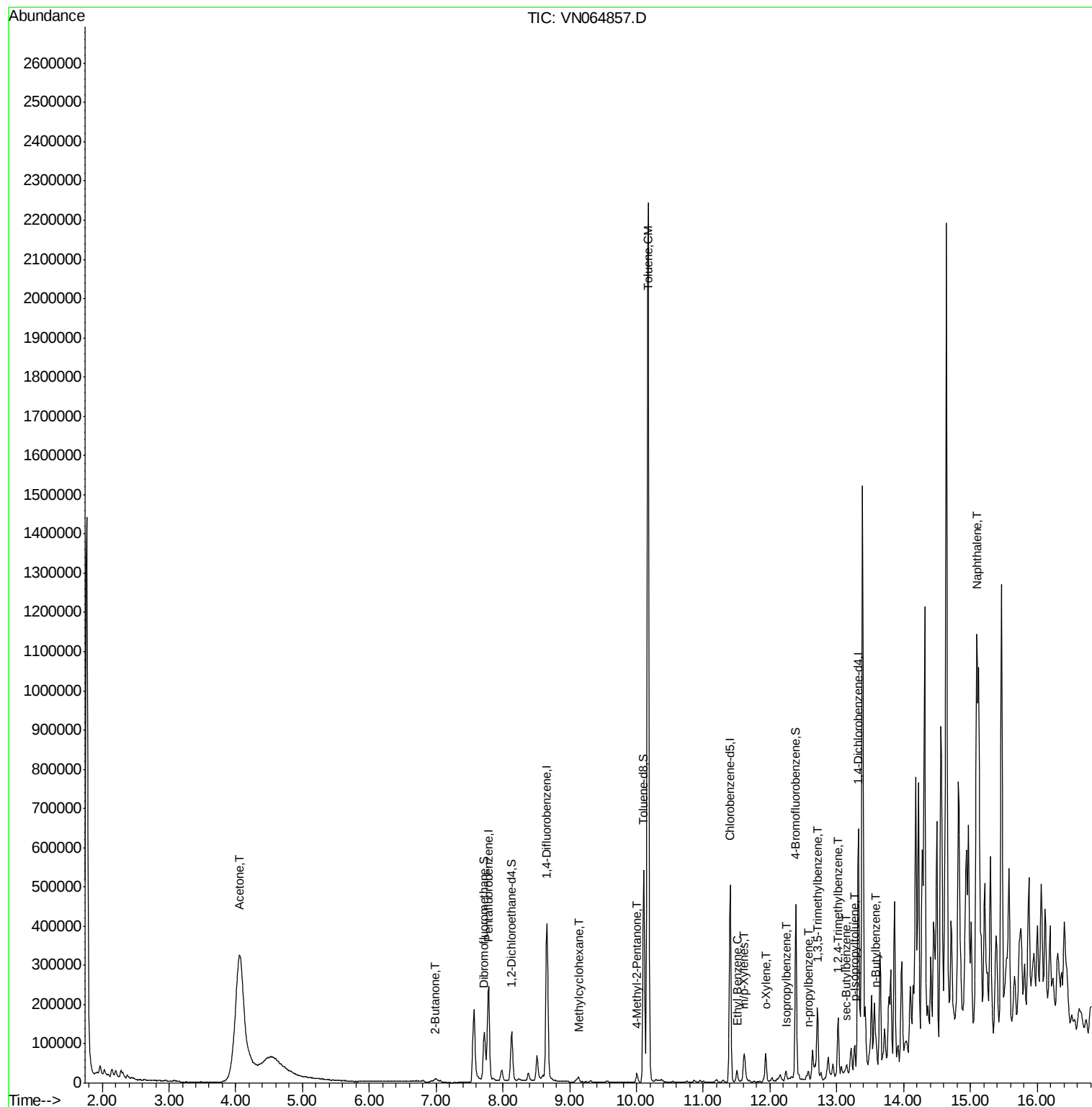
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112520\
Data File : VN064857.D
Acq On : 25 Nov 2020 15:30
Operator : JC/MD
Sample : L4895-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

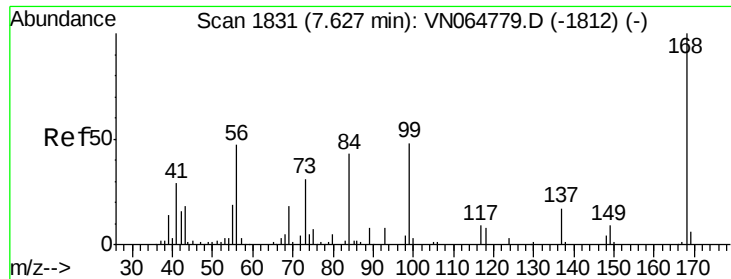
Instrument :
MSVOA_N
ClientSampleId :
COMP-56-67

Manual Integrations
APPROVED

SAM
11/27/2020 1:37:53 PM

Quant Time: Nov 26 04:39:08 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.78 min Scan# 1880

Delta R.T. 0.16 min

Lab File: VN064857.D

Acq: 25 Nov 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

COMP-56-67

Tot Ion:168 Resp: 190846

Ion Ratio Lower Upper

168 100

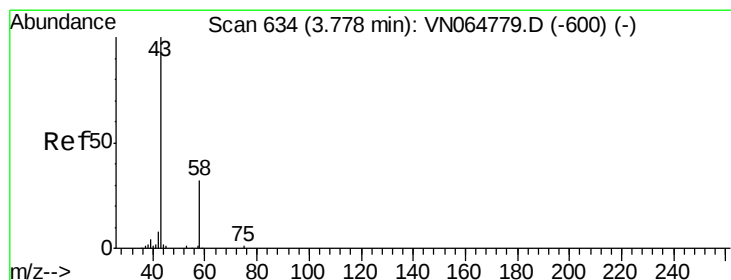
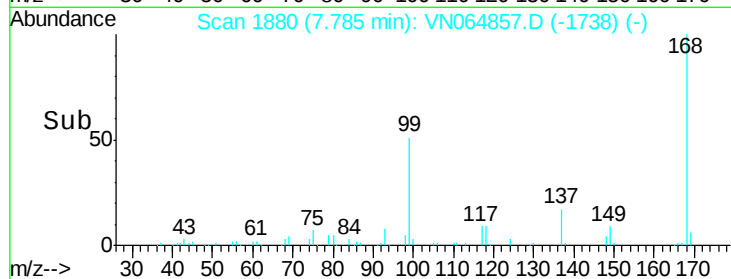
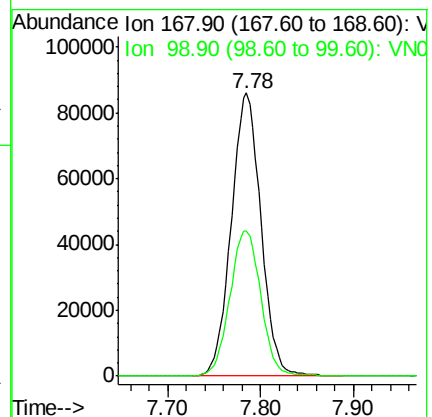
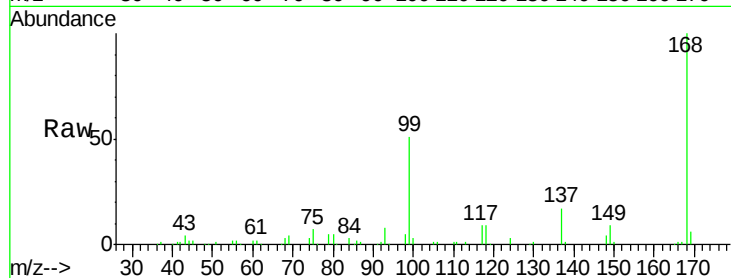
99 51.2 43.0 64.4

Manual Integrations

APPROVED

SAM

11/27/2020 1:37:53 PM



#16

Acetone

Concen: 3052.322 ug/l m

RT: 4.06 min Scan# 720

Delta R.T. 0.28 min

Lab File: VN064857.D

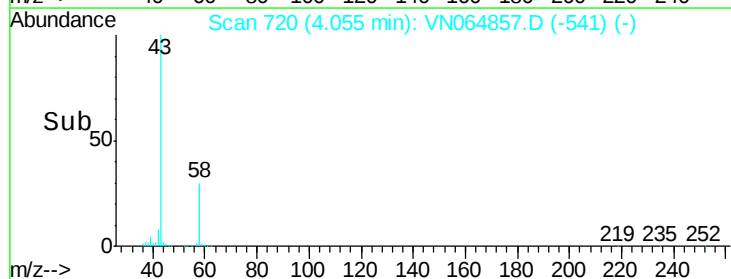
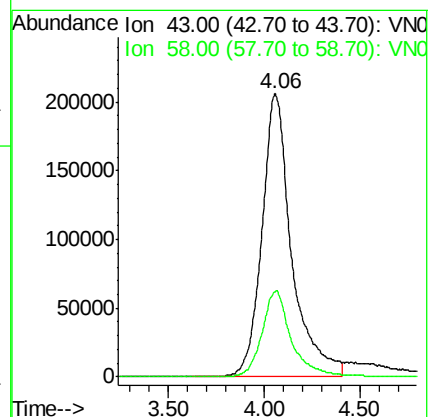
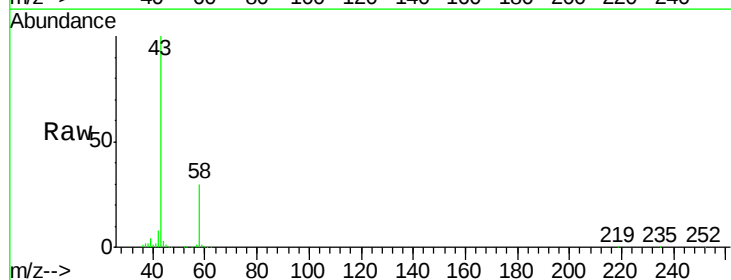
Acq: 25 Nov 2020 15:30

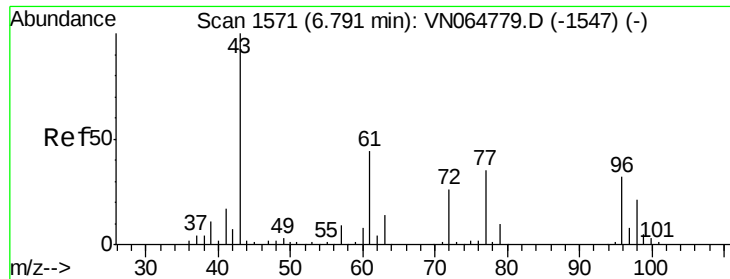
Tgt Ion: 43 Resp: 2226219

Ion Ratio Lower Upper

43 100

58 30.2 25.7 38.5





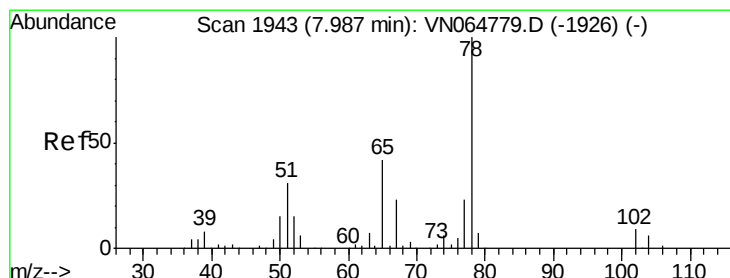
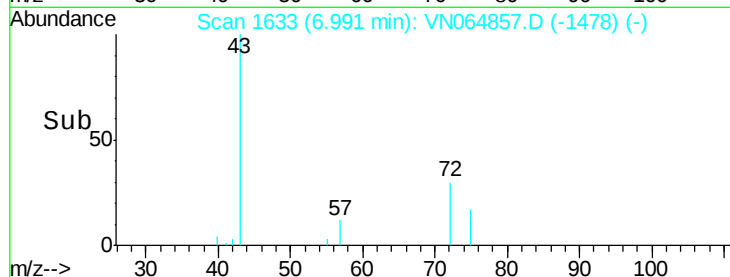
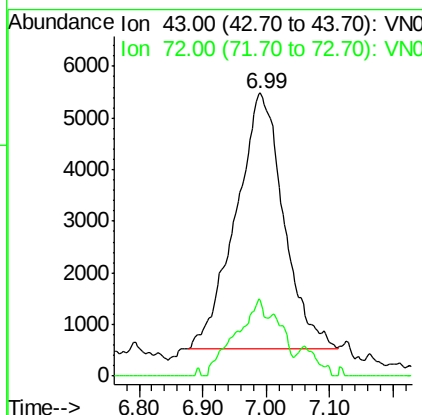
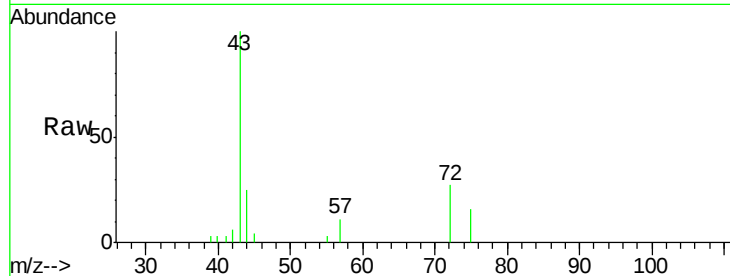
#25
2-Butanone
Concen: 22.060 ug/l
RT: 6.99 min Scan# 1633
Delta R.T. 0.20 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :
COMP-56-67

Tot Ion: 43 Resp: 26082
Ion Ratio Lower Upper
43 100
72 29.8 21.0 31.6

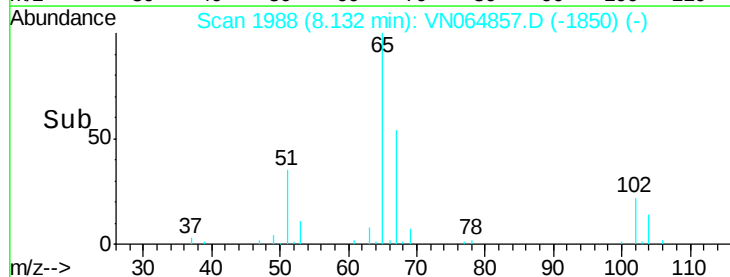
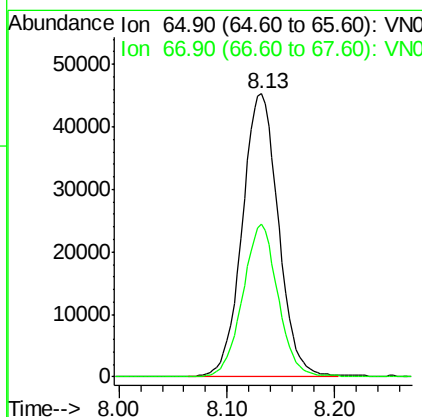
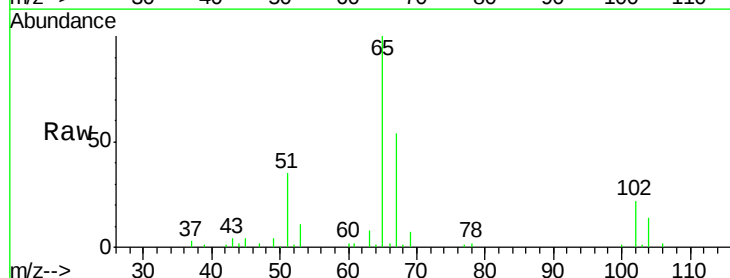
Manual Integrations
APPROVED

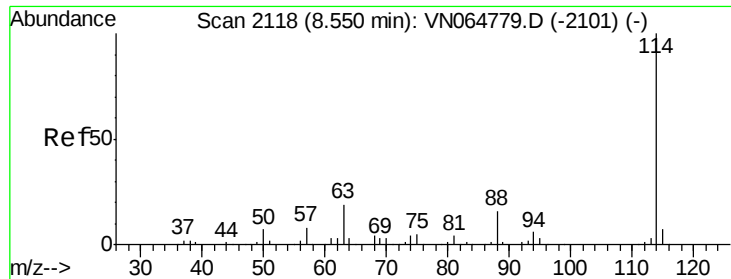
SAM
11/27/2020 1:37:53 PM



#33
1,2-Dichloroethane-d4
Concen: 47.625 ug/l
RT: 8.13 min Scan# 1988
Delta R.T. 0.14 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Tgt Ion: 65 Resp: 105666
Ion Ratio Lower Upper
65 100
67 52.5 0.0 108.2





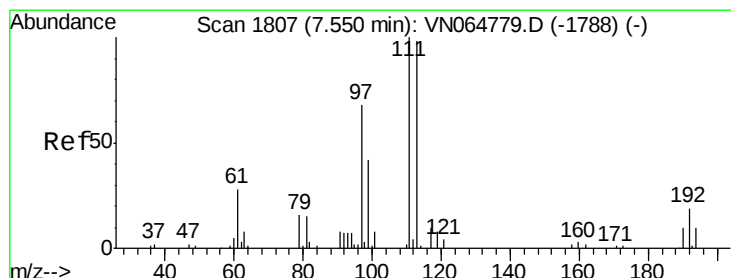
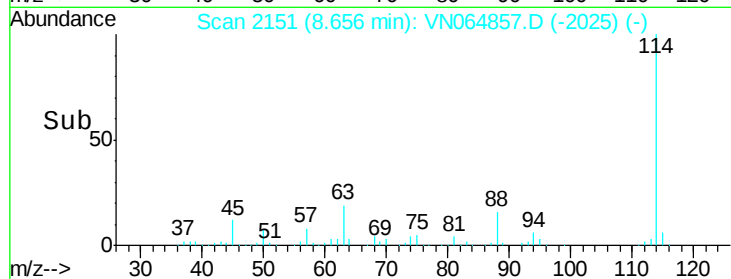
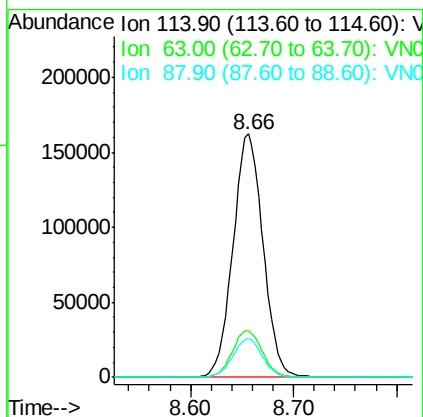
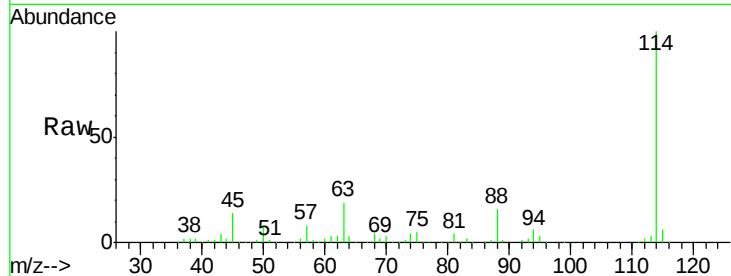
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.66 min Scan# 2151
Delta R.T. 0.11 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :
COMP-56-67

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	18.9	0.0	38.6
88	15.8	0.0	32.6

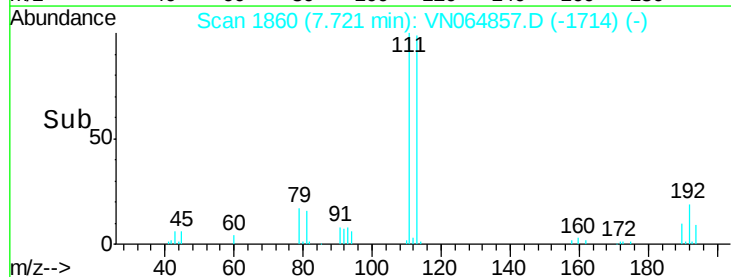
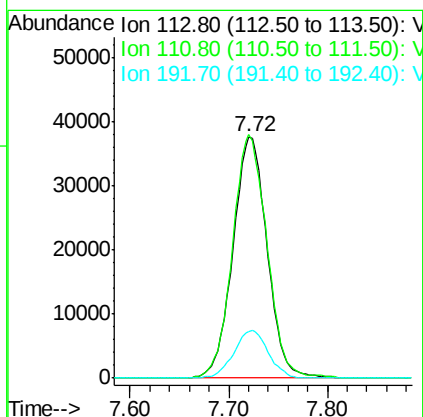
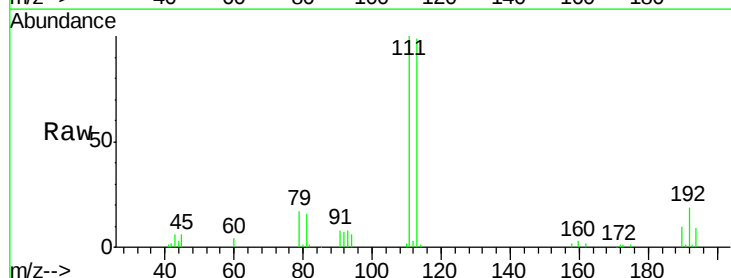
Manual Integrations
APPROVED

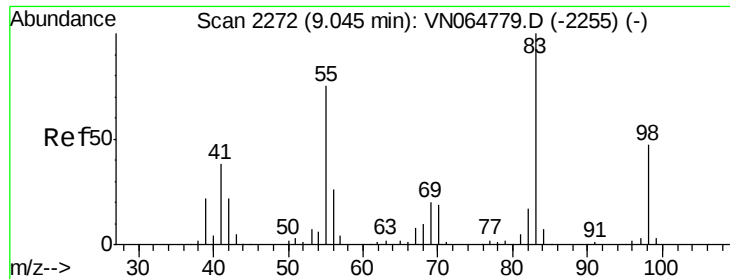
SAM
11/27/2020 1:37:53 PM



#35
Dibromofluoromethane
Concen: 45.973 ug/l
RT: 7.72 min Scan# 1860
Delta R.T. 0.17 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	101.9	81.6	122.4
192	19.8	16.2	24.2





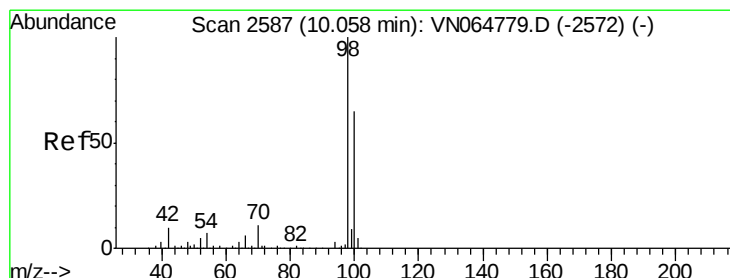
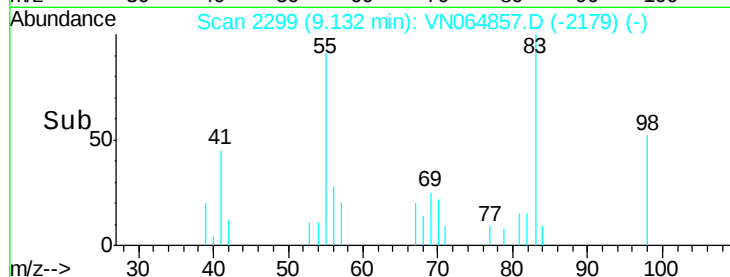
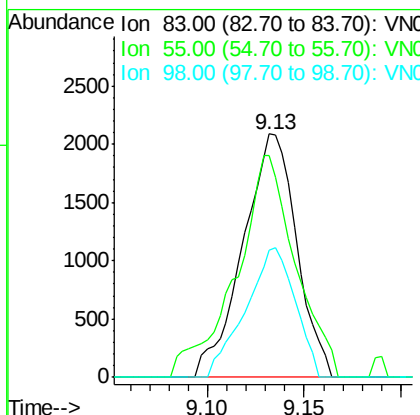
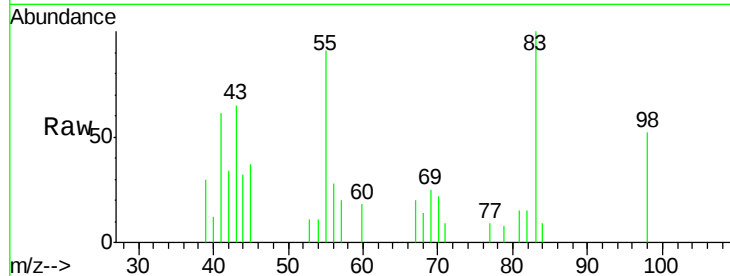
#39
Methylcyclohexane
Concen: 1.227 ug/l
RT: 9.13 min Scan# 2299
Delta R.T. 0.09 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :
COMP-56-67

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.2	60.2	90.2#
98	52.2	37.4	56.2

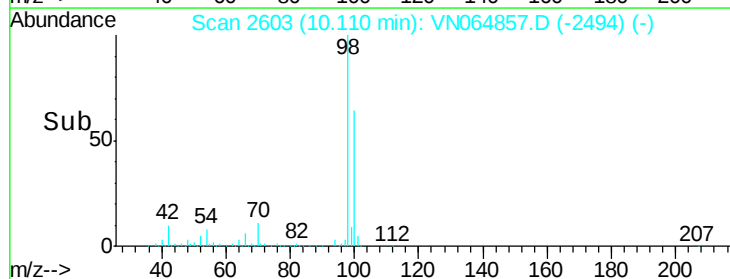
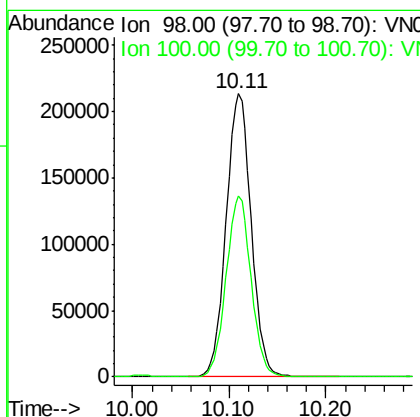
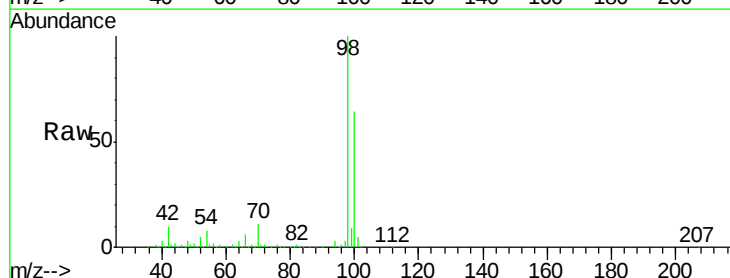
Manual Integrations
APPROVED

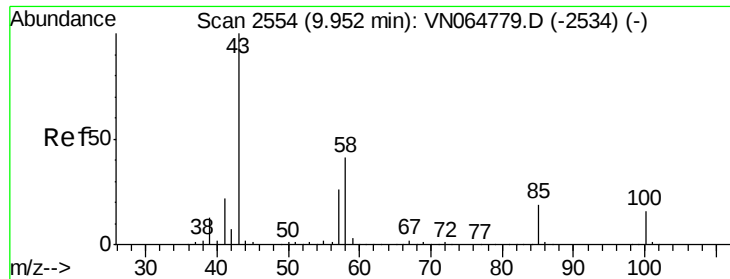
SAM
11/27/2020 1:37:53 PM



#50
Toluene-d8
Concen: 47.713 ug/l
RT: 10.11 min Scan# 2603
Delta R.T. 0.05 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 5.593 ug/l

RT: 10.01 min Scan# 2571

Delta R.T. 0.05 min

Lab File: VN064857.D

Acq: 25 Nov 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

COMP-56-67

Tot Ion: 43 Resp: 15885

Ion Ratio Lower Upper

43 100

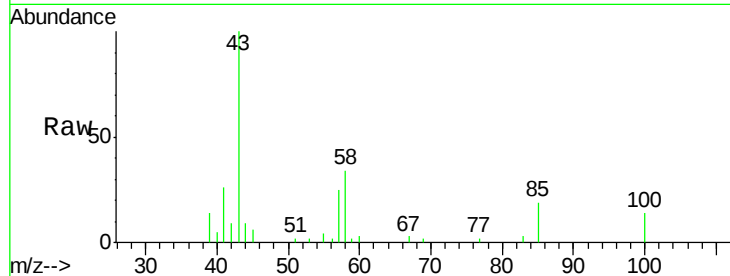
58 37.8 32.4 48.6

Manual Integrations

APPROVED

SAM

11/27/2020 1:37:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

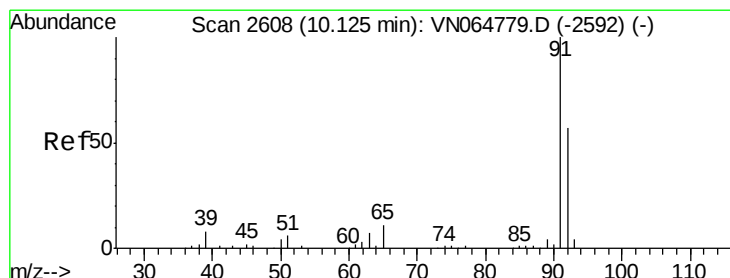
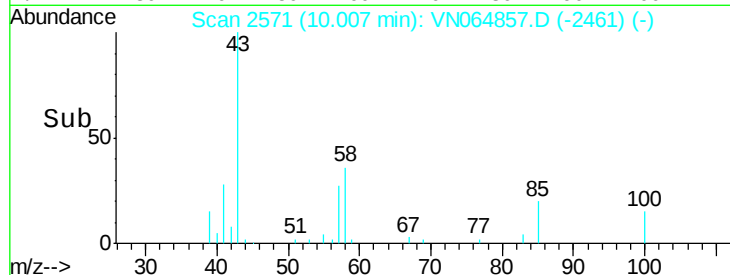
6000

4000

2000

0

Time-->



#52

Toluene

Concen: 176.855 ug/l

RT: 10.17 min Scan# 2623

Delta R.T. 0.05 min

Lab File: VN064857.D

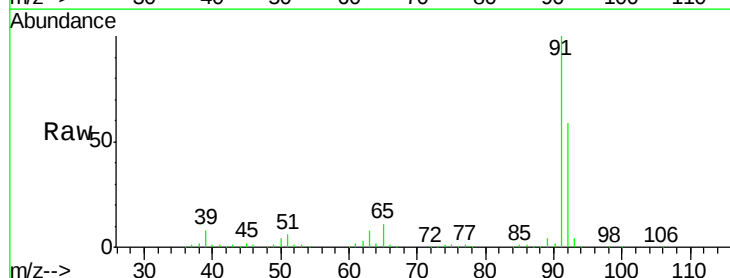
Acq: 25 Nov 2020 15:30

Tgt Ion: 92 Resp: 1018658

Ion Ratio Lower Upper

92 100

91 171.7 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

1000000

800000

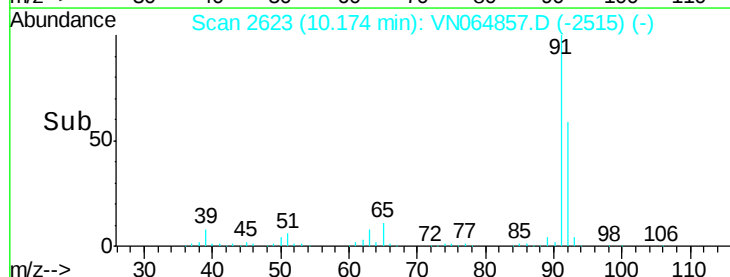
600000

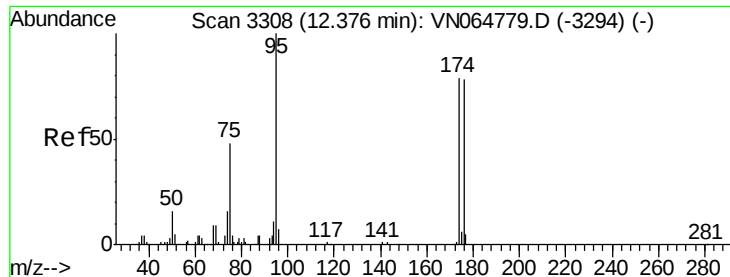
400000

200000

0

Time-->





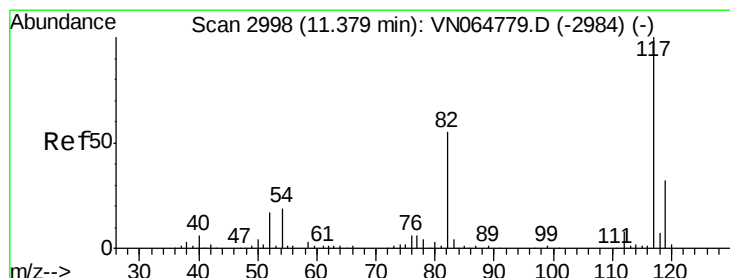
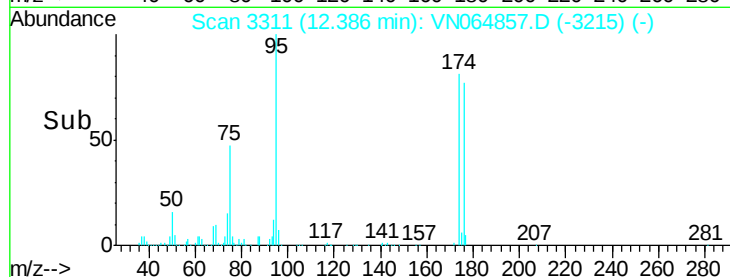
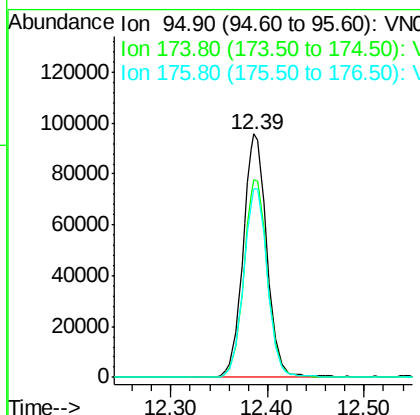
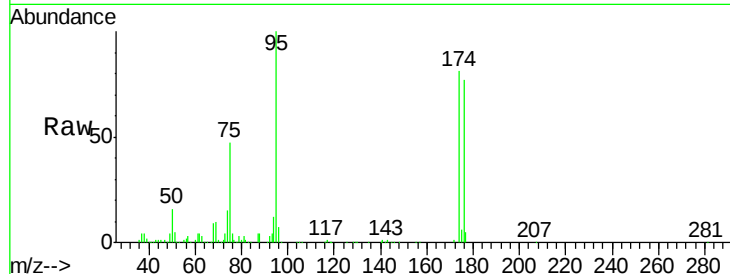
#62
4-Bromofluorobenzene
Concen: 56.262 ug/l
RT: 12.39 min Scan# 3311
Delta R.T. 0.01 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :
COMP-56-67

Tot Ion	Ratio	Resp	Lower	Upper
95	100	162100		
174	80.3	0.0	160.4	
176	77.7	0.0	158.4	

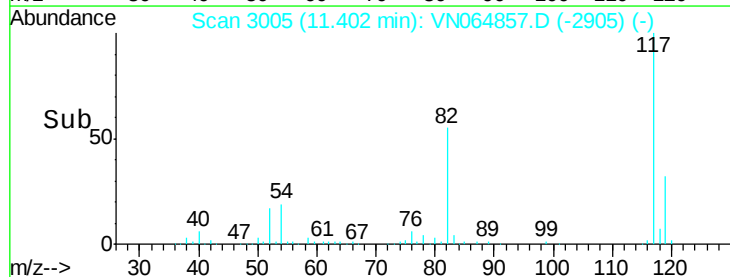
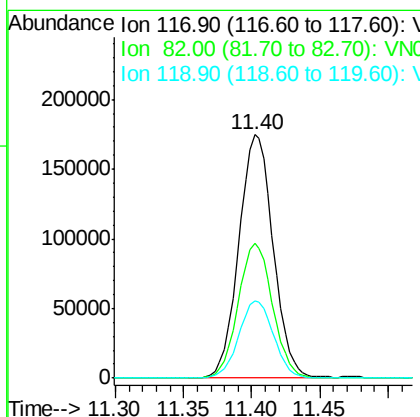
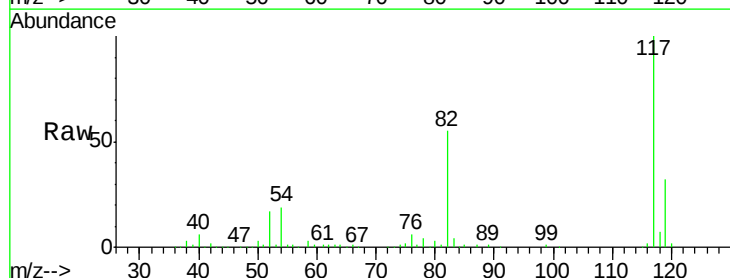
Manual Integrations
APPROVED

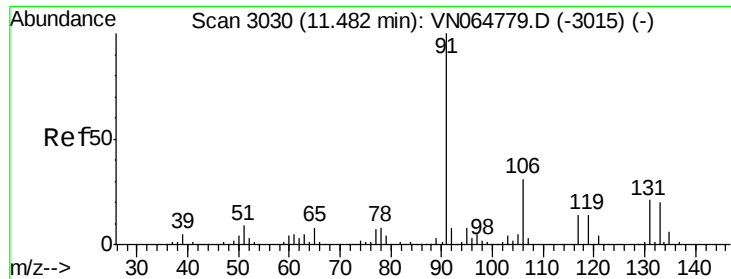
SAM
11/27/2020 1:37:53 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 3005
Delta R.T. 0.02 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	305199		
82	55.3	44.2	66.2	
119	31.9	25.8	38.6	





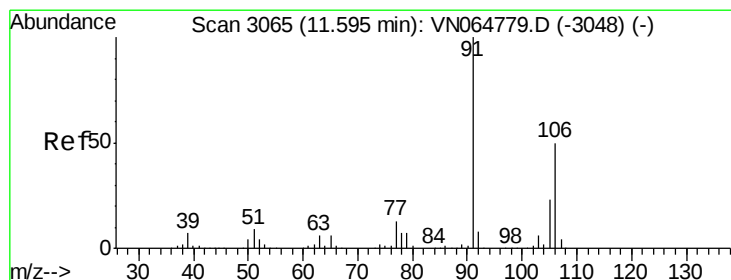
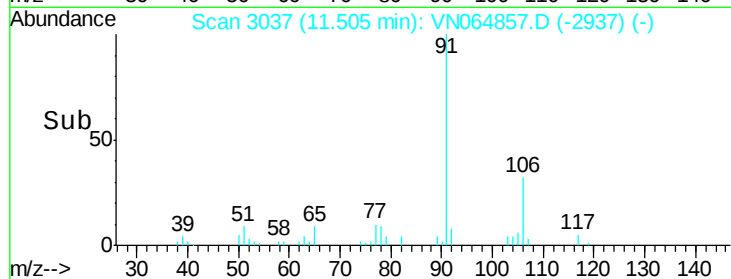
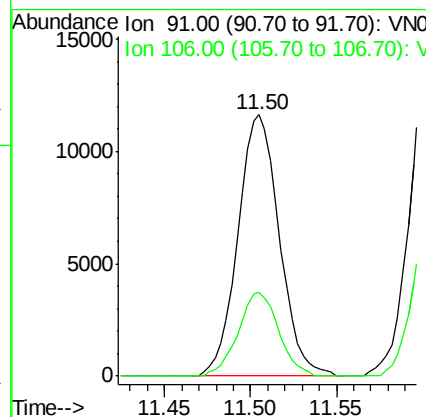
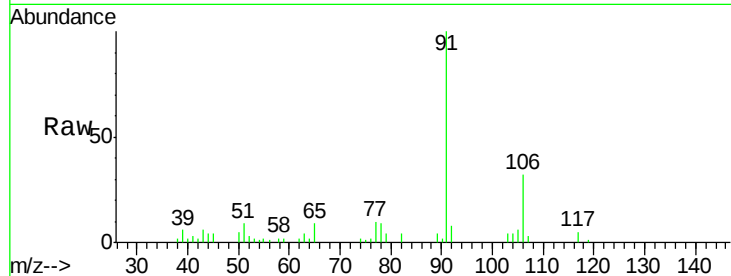
#67
Ethyl Benzene
Concen: 1.780 ug/l
RT: 11.50 min Scan# 3037
Delta R.T. 0.02 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Instrument :
MSVOA_N
ClientSampled :
COMP-56-67

Tot Ion: 91 Resp: 19484
Ion Ratio Lower Upper
91 100
106 32.0 25.2 37.8

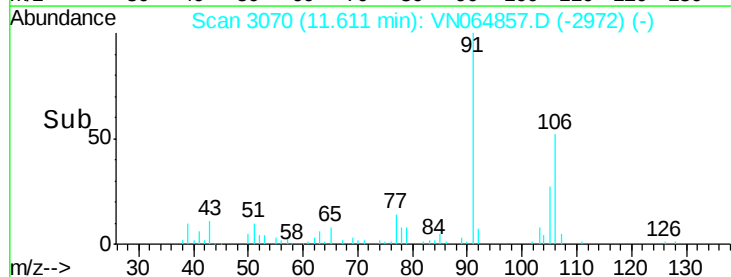
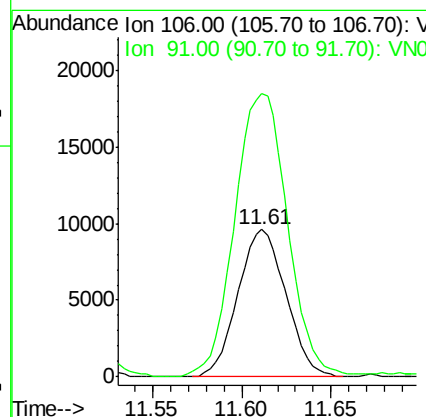
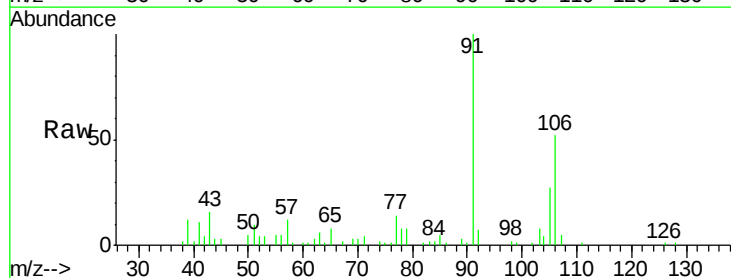
Manual Integrations
APPROVED

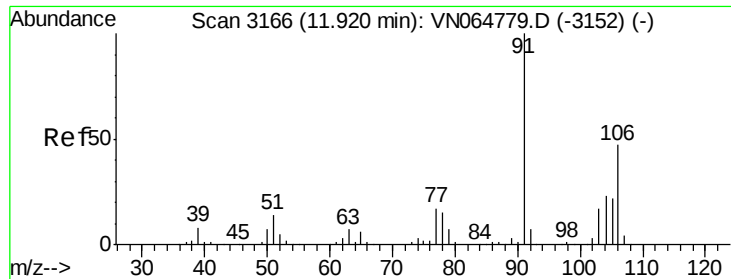
SAM
11/27/2020 1:37:53 PM



#68
m/p-Xylenes
Concen: 4.347 ug/l
RT: 11.61 min Scan# 3070
Delta R.T. 0.02 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Tgt Ion: 106 Resp: 18020
Ion Ratio Lower Upper
106 100
91 212.4 161.0 241.4





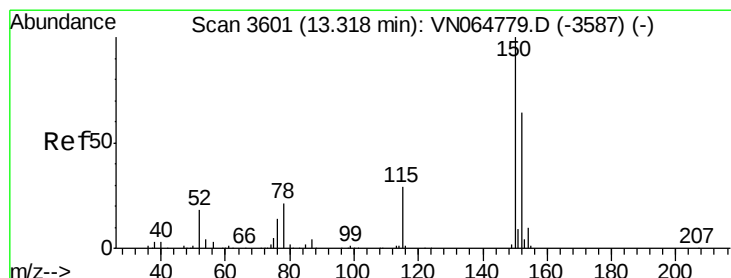
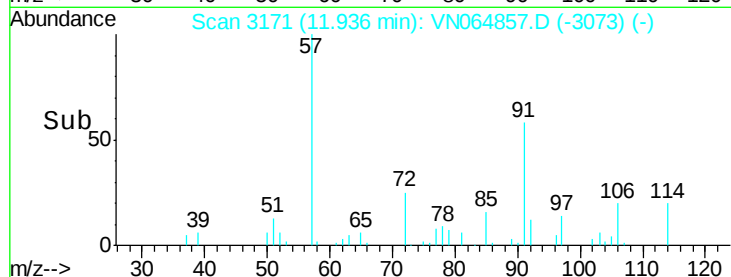
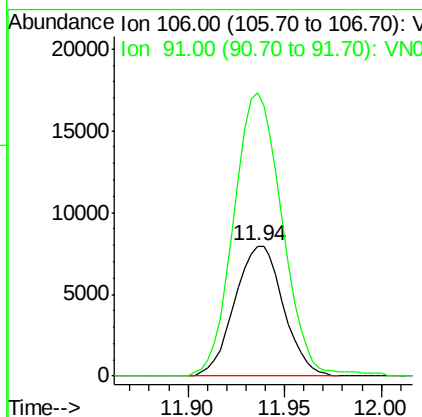
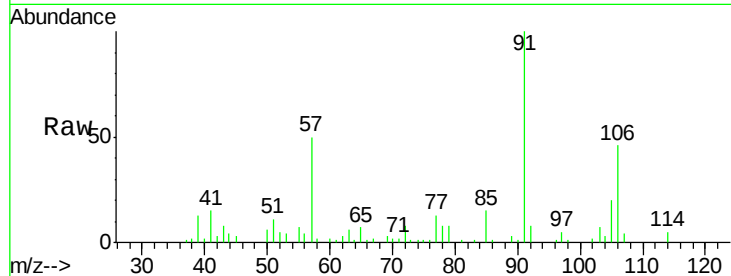
#69
o-Xylene
Concen: 3.542 ug/l
RT: 11.94 min Scan# 3171
Delta R.T. 0.02 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :
COMP-56-67

Tot Ion:106 Resp: 13933
Ion Ratio Lower Upper
106 100
91 216.8 105.5 316.5

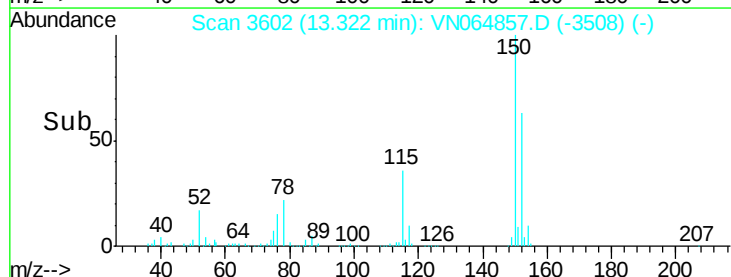
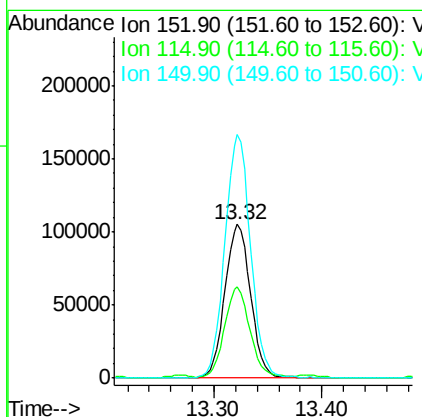
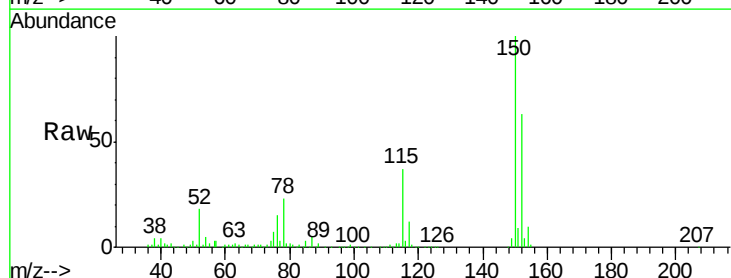
Manual Integrations
APPROVED

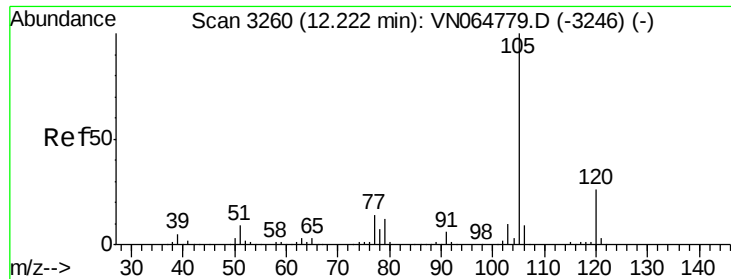
SAM
11/27/2020 1:37:53 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3602
Delta R.T. 0.00 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Tgt Ion:152 Resp: 175647
Ion Ratio Lower Upper
152 100
115 58.2 29.7 89.1
150 157.0 0.0 350.6





#73

Isopropylbenzene

Concen: 0.532 ug/l

RT: 12.23 min Scan# 3264

Delta R.T. 0.01 min

Lab File: VN064857.D

Acq: 25 Nov 2020 15:30

Instrument :

MSVOA_N

ClientSampled :

COMP-56-67

Tot Ion: 105 Resp: 6503

Ion Ratio Lower Upper

105 100

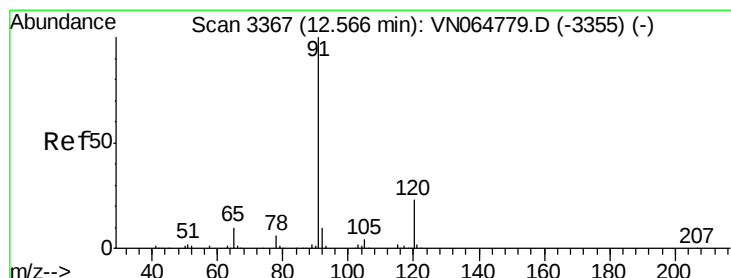
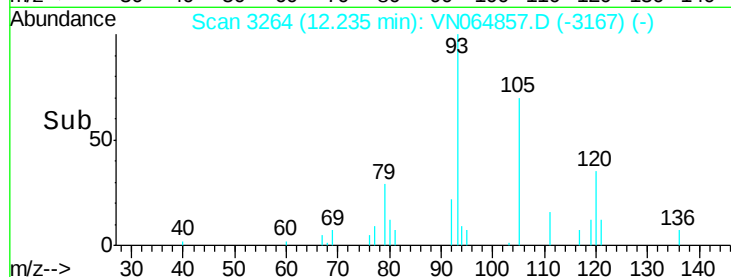
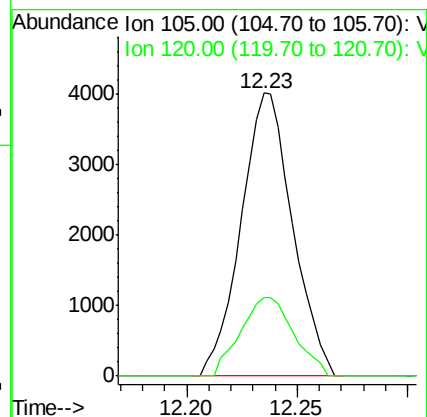
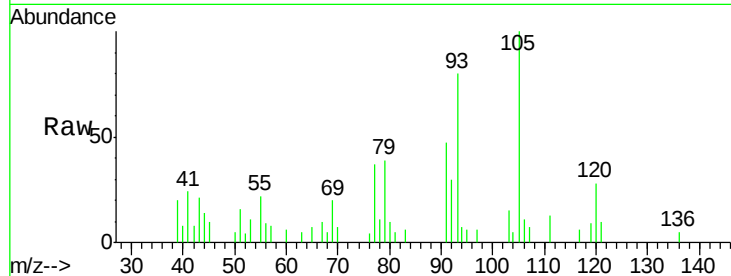
120 28.7 13.3 39.9

Manual Integrations

APPROVED

SAM

11/27/2020 1:37:53 PM



#78

n-propylbenzene

Concen: 1.370 ug/l

RT: 12.58 min Scan# 3370

Delta R.T. 0.01 min

Lab File: VN064857.D

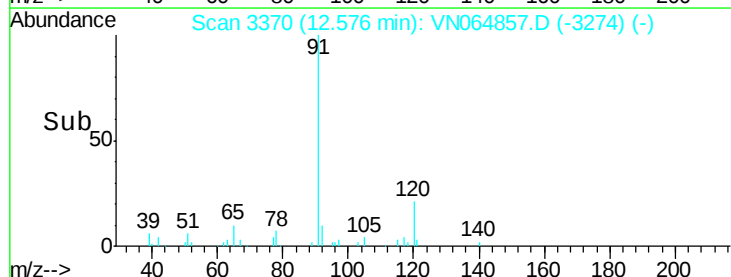
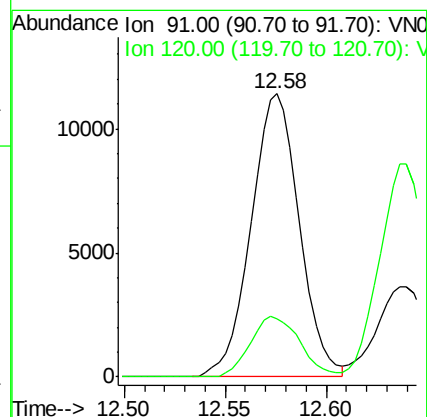
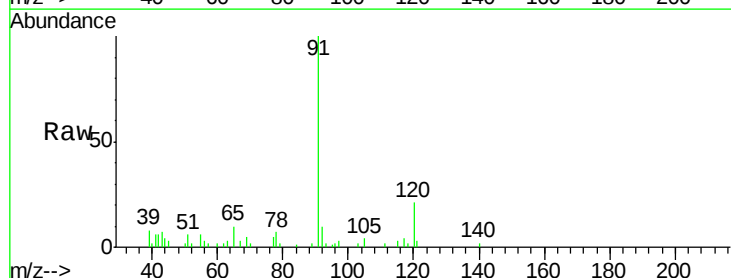
Acq: 25 Nov 2020 15:30

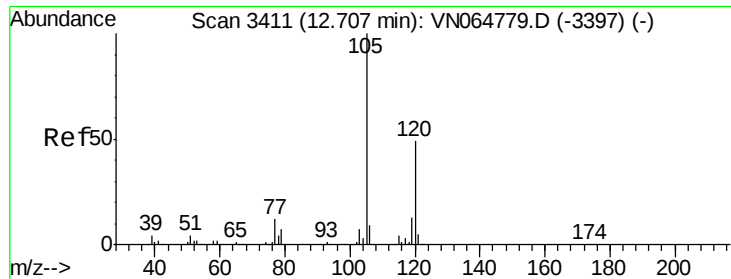
Tgt Ion: 91 Resp: 19064

Ion Ratio Lower Upper

91 100

120 22.0 11.6 34.7





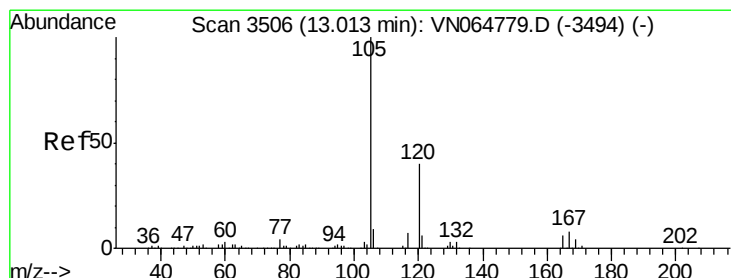
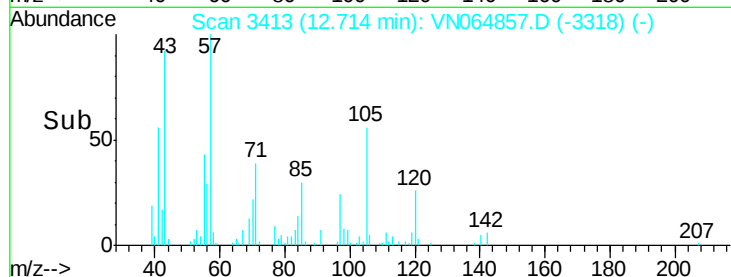
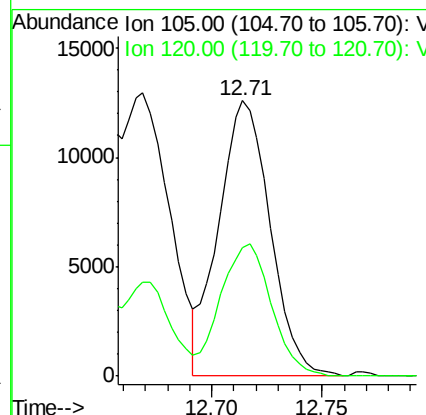
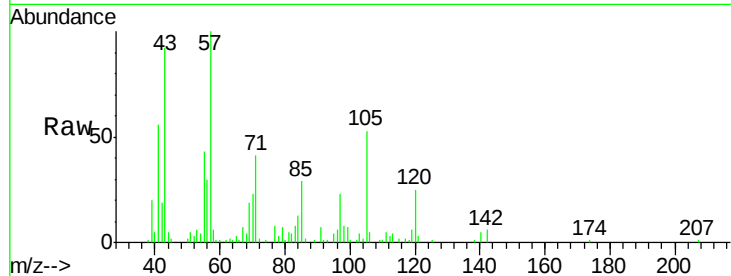
#80
 1,3,5-Trimethylbenzene
 Concen: 2.008 ug/l
 RT: 12.71 min Scan# 3413
 Delta R.T. 0.01 min
 Lab File: VN064857.D
 Acq: 25 Nov 2020 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-56-67

Tot Ion:105 Resp: 20392
 Ion Ratio Lower Upper
 105 100
 120 47.6 24.6 73.6

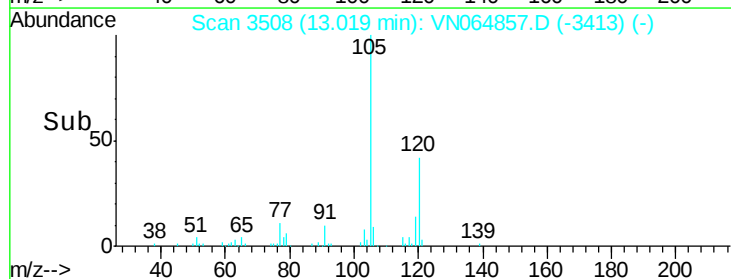
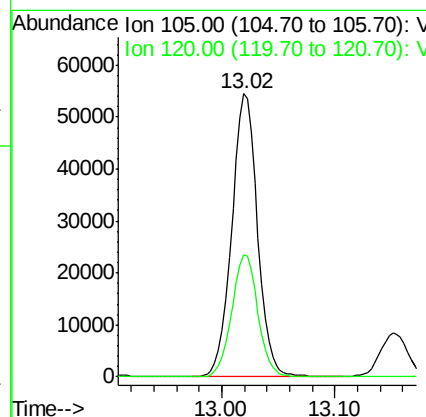
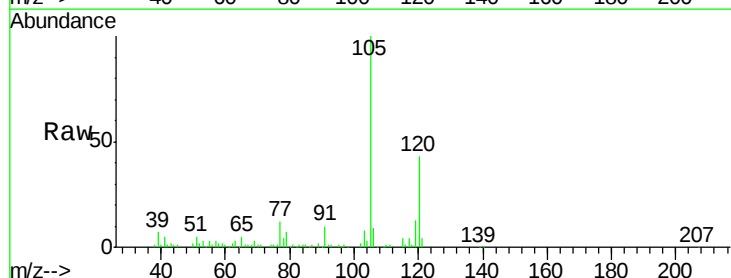
Manual Integrations
 APPROVED

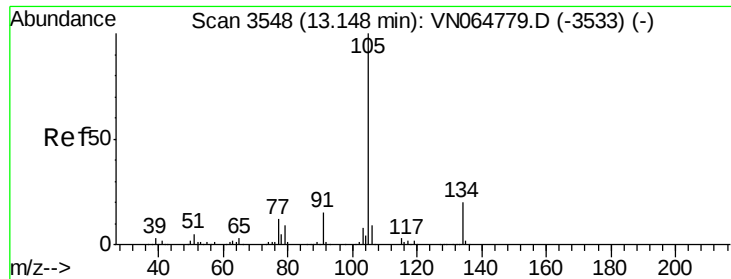
SAM
 11/27/2020 1:37:53 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 8.409 ug/l
 RT: 13.02 min Scan# 3508
 Delta R.T. 0.01 min
 Lab File: VN064857.D
 Acq: 25 Nov 2020 15:30

Tgt Ion:105 Resp: 86338
 Ion Ratio Lower Upper
 105 100
 120 43.6 23.1 69.2





#85

sec-Butylbenzene

Concen: 1.267 ug/l

RT: 13.15 min Scan# 3549

Delta R.T. 0.00 min

Lab File: VN064857.D

Acq: 25 Nov 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

COMP-56-67

Tot Ion:105 Resp: 14320

Ion Ratio Lower Upper

105 100

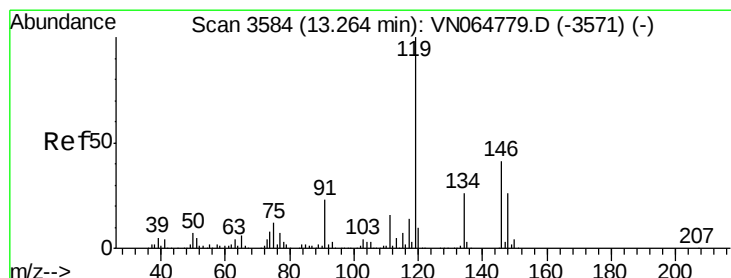
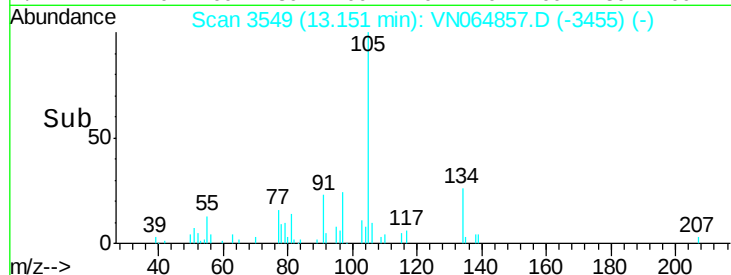
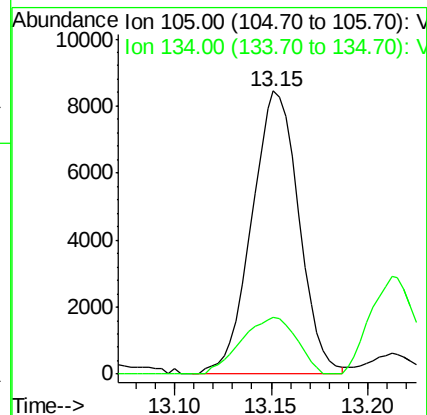
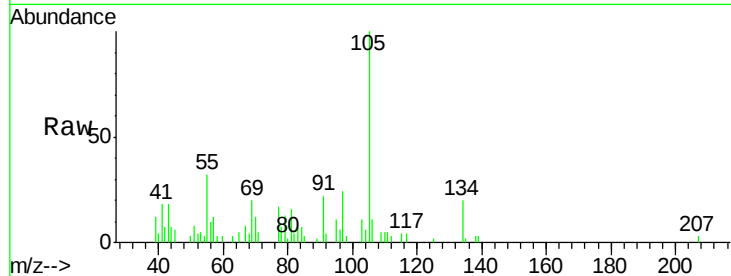
134 23.5 10.1 30.1

Manual Integrations

APPROVED

SAM

11/27/2020 1:37:53 PM



#86

p-Isopropyltoluene

Concen: 3.359 ug/l

RT: 13.27 min Scan# 3585

Delta R.T. 0.00 min

Lab File: VN064857.D

Acq: 25 Nov 2020 15:30

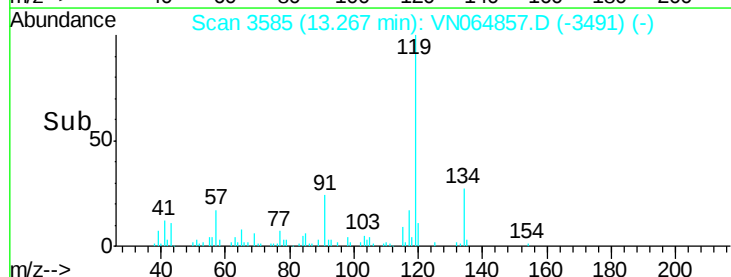
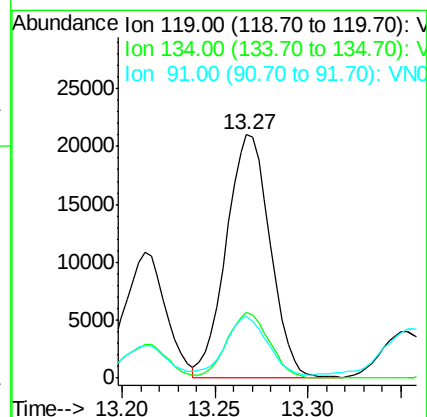
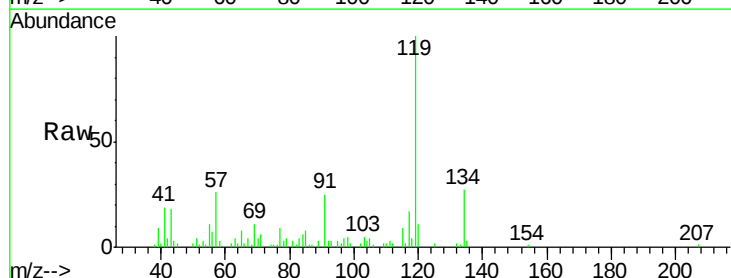
Tgt Ion:119 Resp: 34563

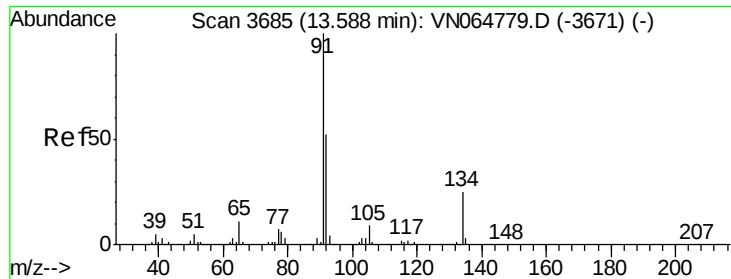
Ion Ratio Lower Upper

119 100

134 25.9 13.1 39.1

91 22.3 11.5 34.5





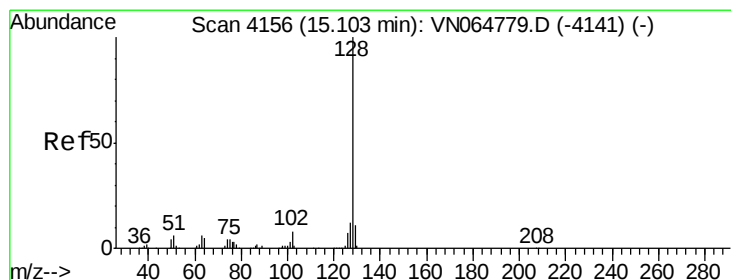
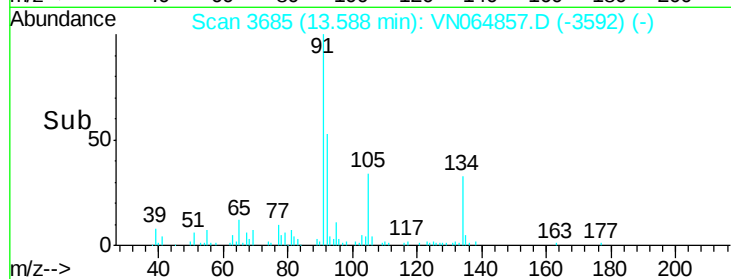
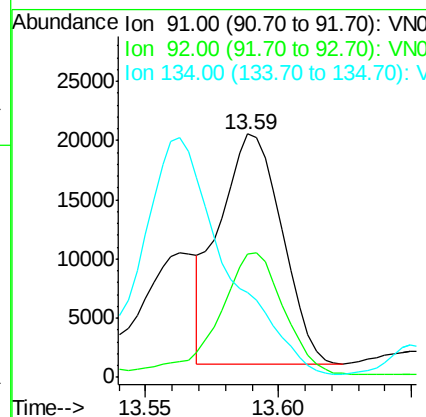
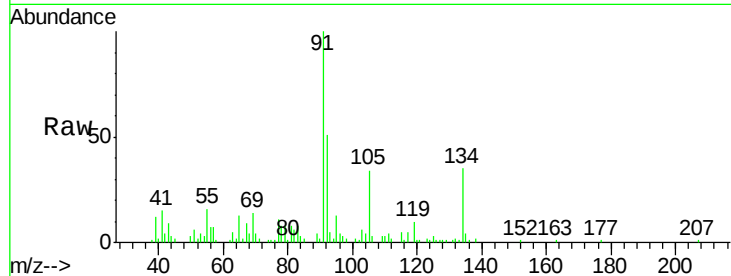
#89
n-Butylbenzene
Concen: 3.489 ug/l m
RT: 13.59 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :
COMP-56-67

Tot Ion	Ratio	Lower	Upper
91	100		
92	32.7	26.0	78.0
134	14.8	12.9	38.6

Manual Integrations
APPROVED

SAM
11/27/2020 1:37:53 PM



#95
Naphthalene
Concen: 44.726 ug/l
RT: 15.10 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN064857.D
Acq: 25 Nov 2020 15:30

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	11.3	8.7	13.1

