

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081322\
 Data File : VN073874.D
 Acq On : 13 Aug 2022 17:39
 Operator : JC\MD
 Sample : N4156-08RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11261RE

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/15/2022
 Supervised By : Mahesh Dadoda 08/16/2022

Quant Time: Aug 14 02:37:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 10 05:09:32 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.016	168	676116	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	981782	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.692	117	1099699	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	656102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	333260	40.446	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	80.900%		
35) Dibromofluoromethane	7.951	113	324902	52.701	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	105.400%		
50) Toluene-d8	10.392	98	1197480	49.360	ug/l	0.01
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.720%		
62) 4-Bromofluorobenzene	12.686	95	567175	65.686	ug/l	0.01
Spiked Amount 50.000	Range 83 - 123		Recovery =	131.380%#		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.292	59	142716	80.314	ug/l	99
13) Acrolein	3.981	56	12638	7.174	ug/l	96
16) Acetone	4.216	43	6068700	1371.289	ug/l	99
18) Methyl Acetate	4.745	43	47211185m	4287.953	ug/l	
20) Methylene Chloride	5.004	84	30687	2.178	ug/l	94
25) 2-Butanone	7.257	43	1699921	247.342	ug/l	98
29) Tetrahydrofuran	7.604	42	8174339	1881.192	ug/l	94
37) Ethyl Acetate	7.333	43	438613	37.904	ug/l	99
43) Isopropyl Acetate	8.498	43	753980	48.240	ug/l #	71
48) Methyl methacrylate	9.498	41	3081019	450.344	ug/l	93
51) 4-Methyl-2-Pentanone	10.316	43	13480233	1202.502	ug/l	96
52) Toluene	10.427	92	52270905m	2999.245	ug/l	
64) Tetrachloroethene	10.921	164	11640	1.332	ug/l	93
67) Ethyl Benzene	11.774	91	22622313m	574.069	ug/l	
68) m/p-Xylenes	11.886	106	26514838m	1764.149	ug/l	
69) o-Xylene	12.221	106	23259824m	1587.373	ug/l	
73) Isopropylbenzene	12.539	105	1399188	29.132	ug/l	99
78) n-propylbenzene	12.868	91	3727299	68.972	ug/l	97
80) 1,3,5-Trimethylbenzene	13.004	105	6284500	159.003	ug/l	98
84) 1,2,4-Trimethylbenzene	13.304	105	19635572	505.235	ug/l	66
85) sec-Butylbenzene	13.445	105	242654m	5.015	ug/l	
86) p-Isopropyltoluene	13.557	119	103345m	2.709	ug/l	
89) n-Butylbenzene	13.880	91	90124	2.904	ug/l #	76
95) Naphthalene	15.433	128	1577891	42.324	ug/l	100

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

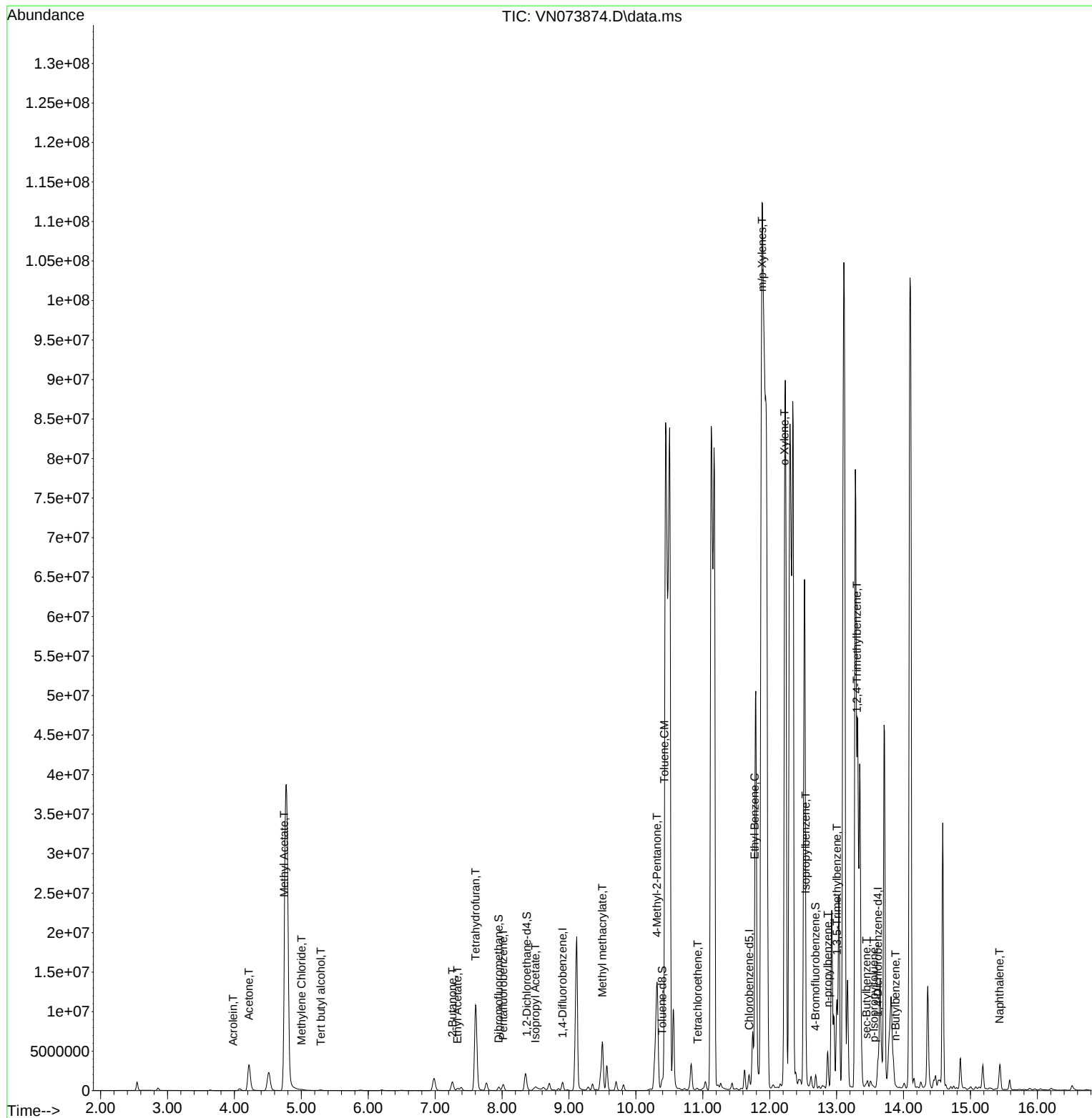
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081322\
Data File : VN073874.D
Acq On : 13 Aug 2022 17:39
Operator : JC\MD
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

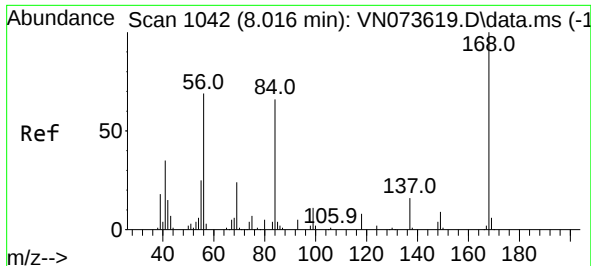
Instrument :
MSVOA_N
ClientSampleId :
11261RE

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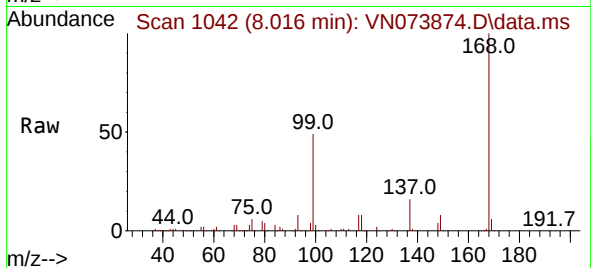
Quant Time: Aug 14 02:37:01 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 10 05:09:32 2022
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

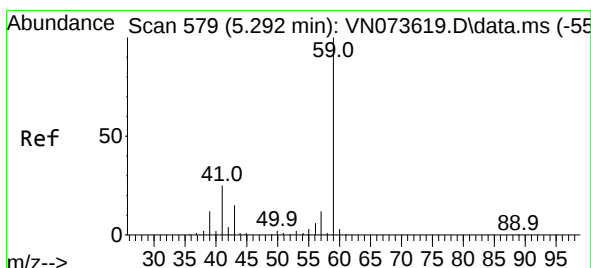
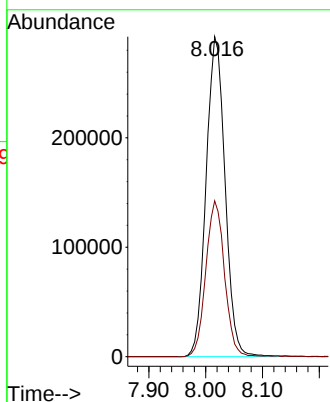
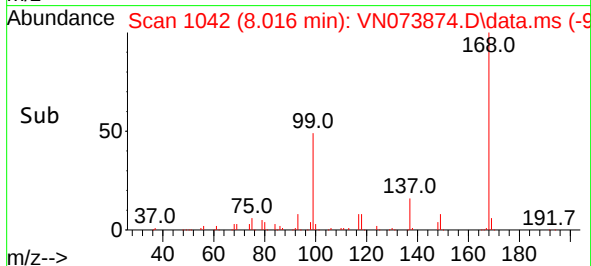
Instrument :
MSVOA_N
ClientSampleId :
11261RE



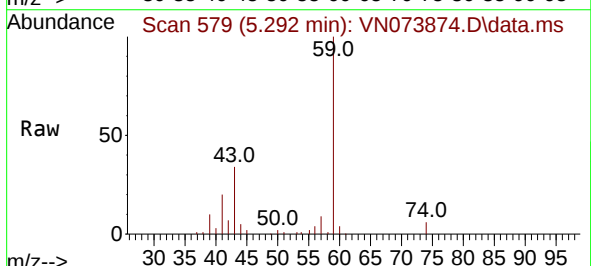
Tgt Ion:168 Resp: 676110
Ion Ratio Lower Upper
168 100
99 48.7 42.3 63.5

Manual Integrations
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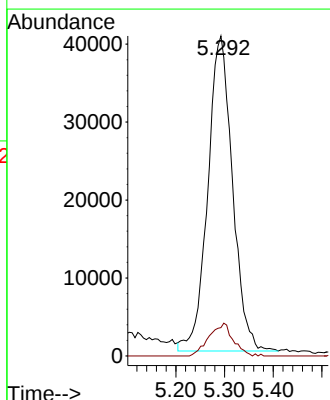
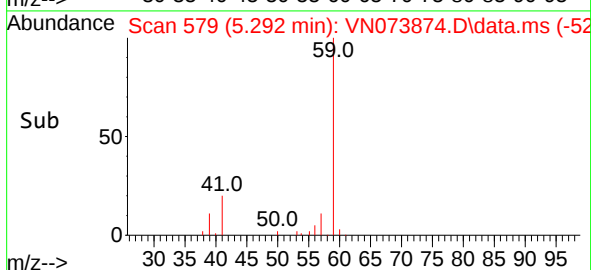
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022

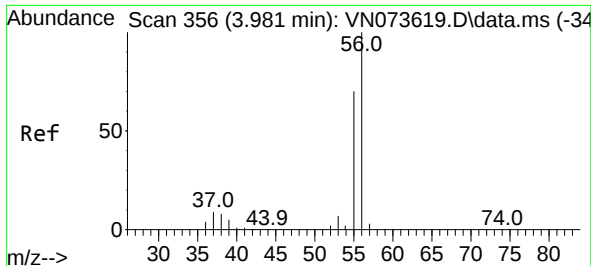


#11
Tert butyl alcohol
Concen: 80.314 ug/l
RT: 5.292 min Scan# 579
Delta R.T. 0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39



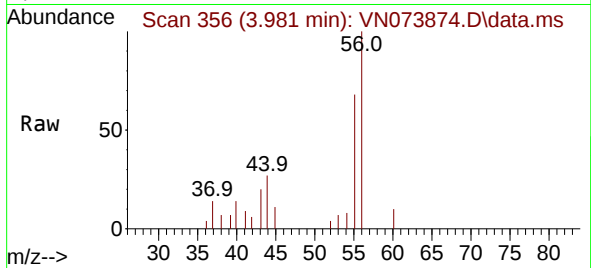
Tgt Ion: 59 Resp: 142716
Ion Ratio Lower Upper
59 100
57 10.0 8.3 12.5





#13
Acrolein
Concen: 7.174 ug/l
RT: 3.981 min Scan# 356
Delta R.T. -0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

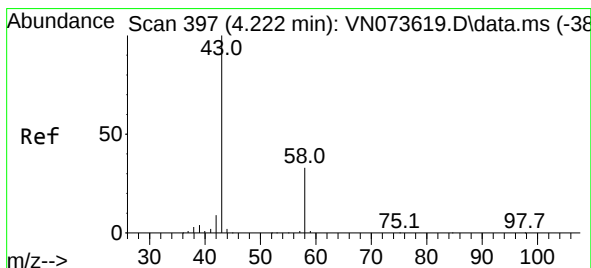
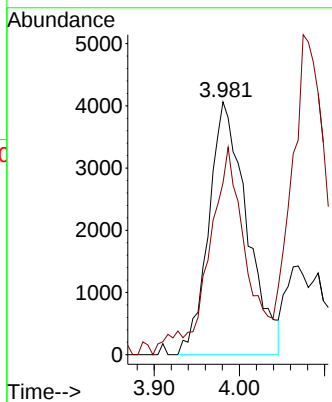
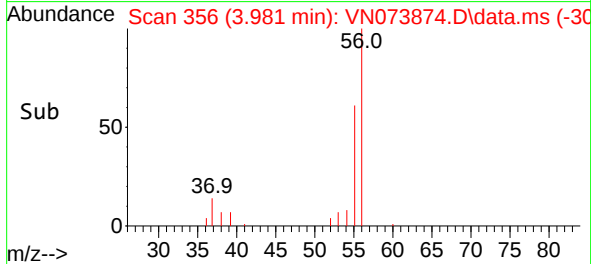
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Tgt Ion: 56 Resp: 12638
Ion Ratio Lower Upper
56 100
55 64.9 54.8 82.2

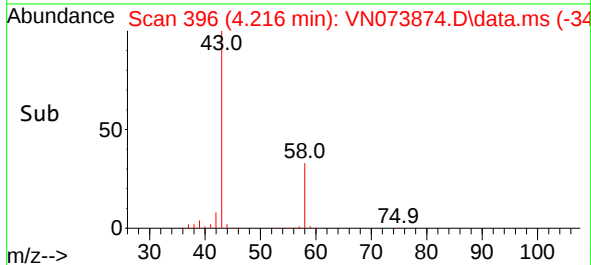
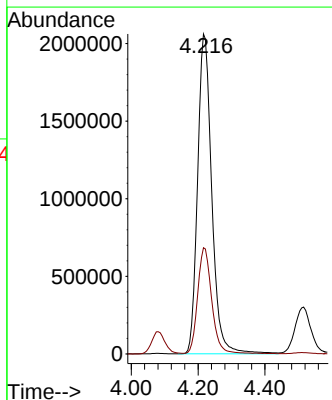
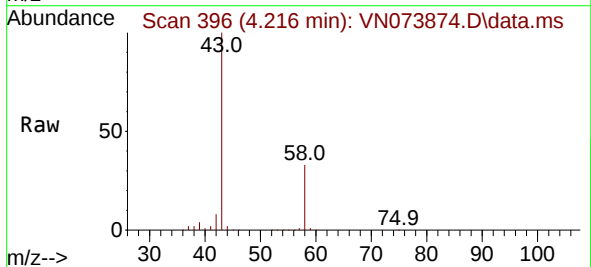
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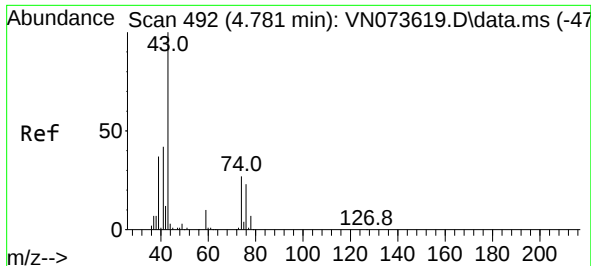
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#16
Acetone
Concen: 1371.289 ug/l
RT: 4.216 min Scan# 396
Delta R.T. -0.006 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

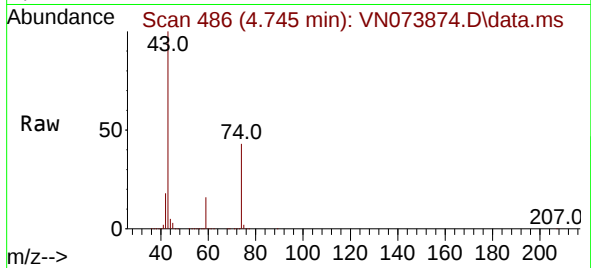
Tgt Ion: 43 Resp: 6068700
Ion Ratio Lower Upper
43 100
58 33.1 26.0 39.0





#18
Methyl Acetate
Concen: 4287.953 ug/l m
RT: 4.745 min Scan# 411
Delta R.T. -0.035 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

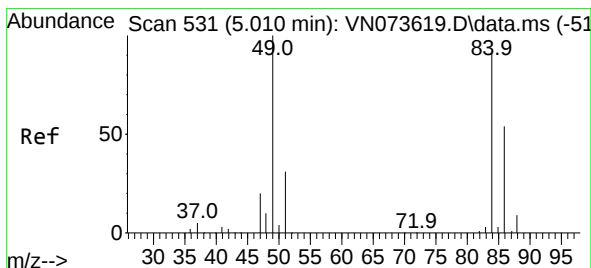
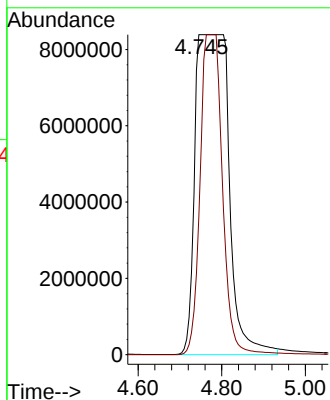
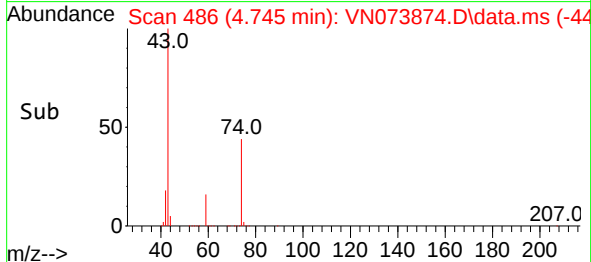
Instrument :
MSVOA_N
ClientSampleId :
11261RE



Tgt Ion: 43 Resp: 4721118
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4

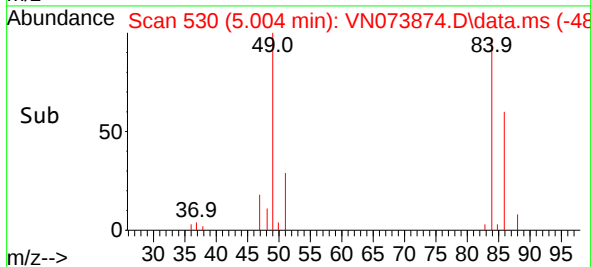
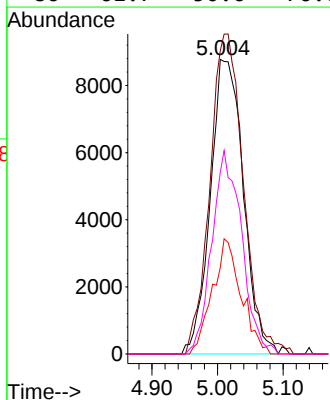
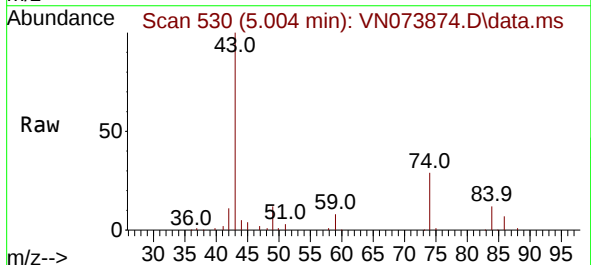
Manual Integrations
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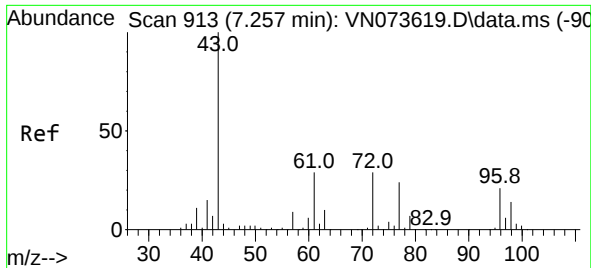
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#20
Methylene Chloride
Concen: 2.178 ug/l
RT: 5.004 min Scan# 530
Delta R.T. -0.006 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

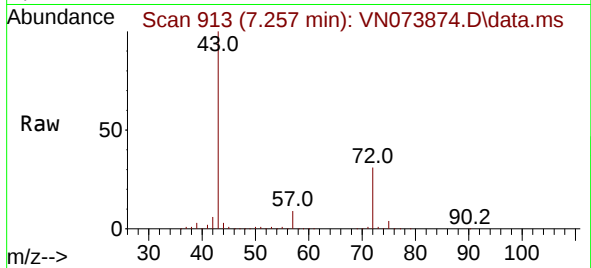
Tgt Ion: 84 Resp: 30687
Ion Ratio Lower Upper
84 100
49 103.0 88.3 132.5
51 29.4 28.2 42.2
86 61.7 50.6 76.0





#25
2-Butanone
Concen: 247.342 ug/l
RT: 7.257 min Scan# 913
Delta R.T. 0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

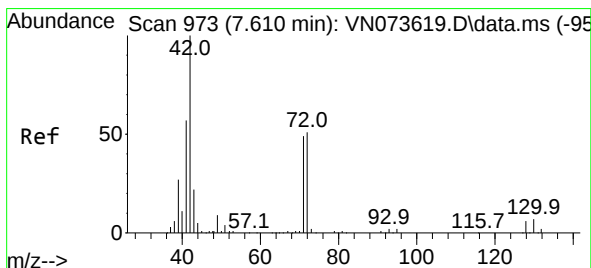
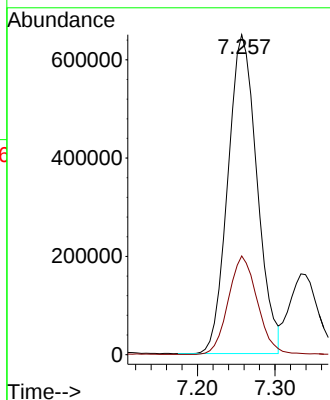
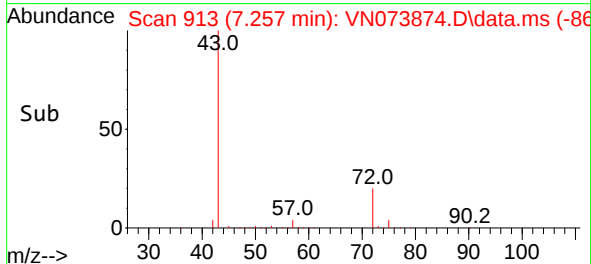
Instrument :
MSVOA_N
ClientSampleId :
11261RE



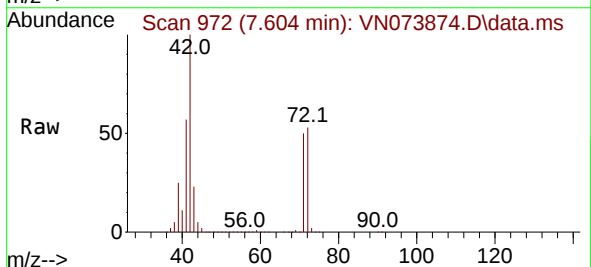
Tgt Ion: 43 Resp: 169992
Ion Ratio Lower Upper
43 100
72 30.9 23.7 35.5

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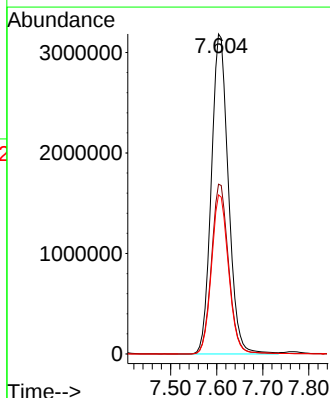
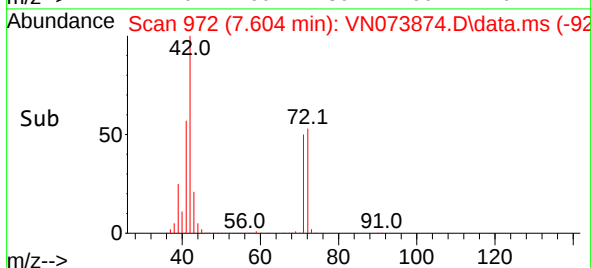
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022

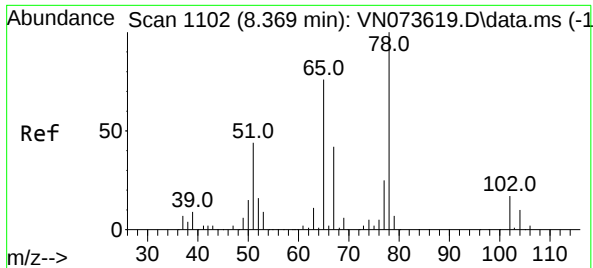


#29
Tetrahydrofuran
Concen: 1881.192 ug/l
RT: 7.604 min Scan# 972
Delta R.T. -0.006 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39



Tgt Ion: 42 Resp: 8174339
Ion Ratio Lower Upper
42 100
72 53.5 39.7 59.5
71 50.1 36.6 55.0





#33

1,2-Dichloroethane-d4

Concen: 40.446 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN073874.D

Acq: 13 Aug 2022 17:39

Instrument :

MSVOA_N

ClientSampleId :

11261RE

Tgt Ion: 65 Resp: 333260

Ion Ratio Lower Upper

65 100

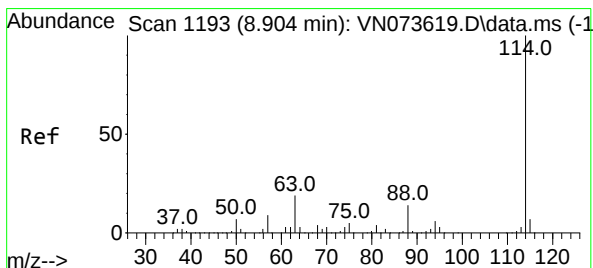
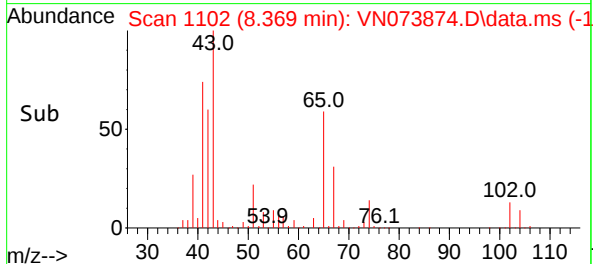
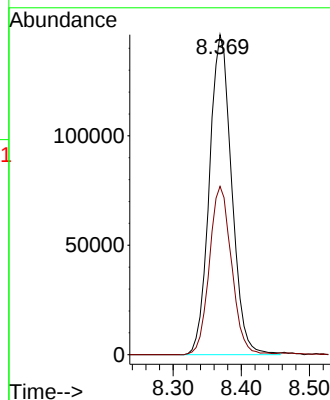
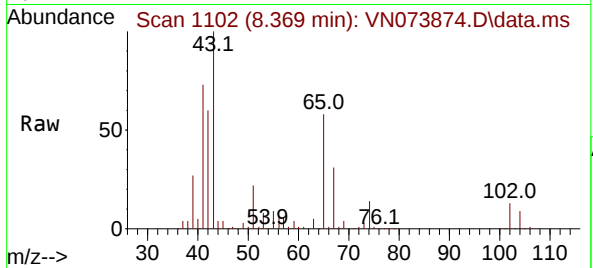
67 52.2 0.0 104.8

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073874.D

Acq: 13 Aug 2022 17:39

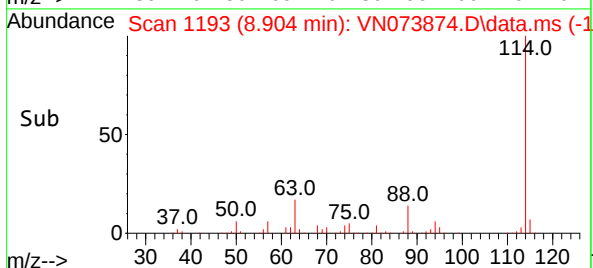
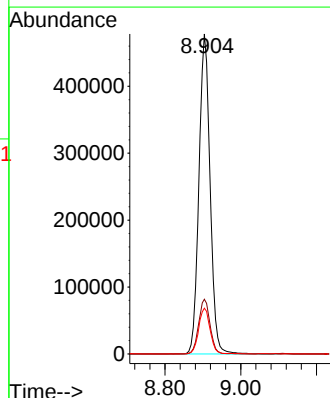
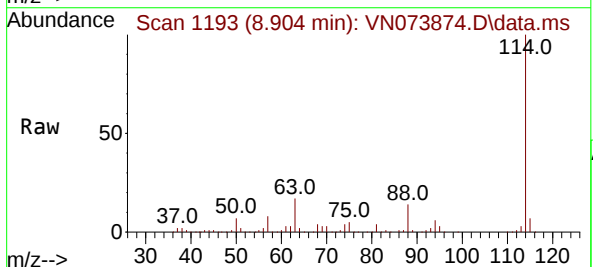
Tgt Ion:114 Resp: 981782

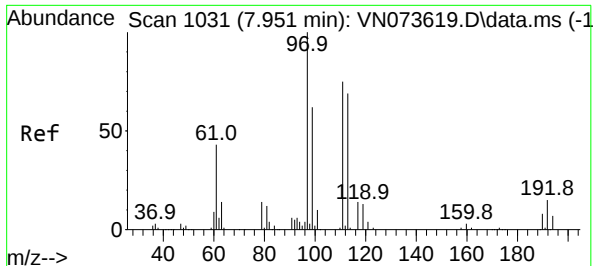
Ion Ratio Lower Upper

114 100

63 17.0 0.0 40.0

88 14.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.701 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN073874.D

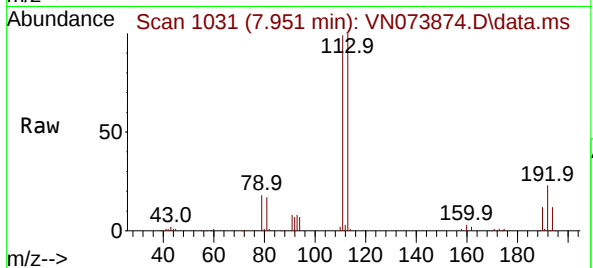
Acq: 13 Aug 2022 17:39

Instrument :

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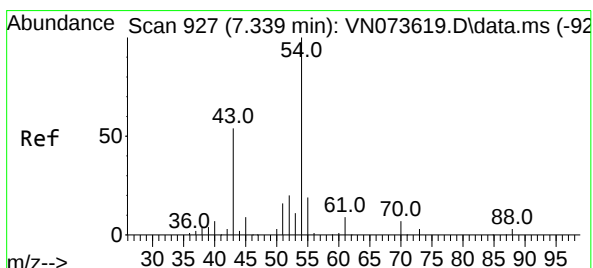
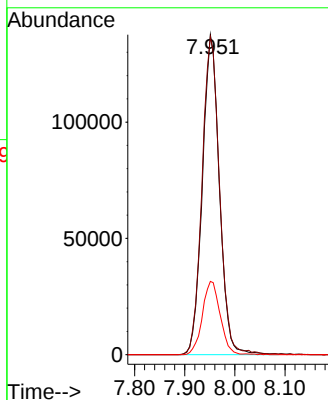
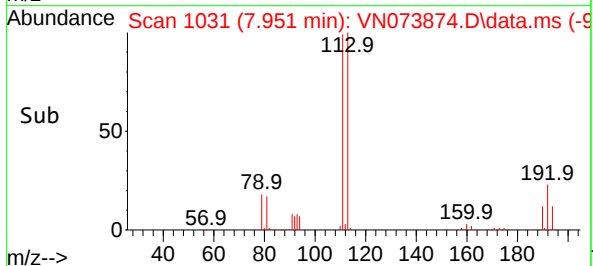
Tgt Ion:	113	Resp:	32490
Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.4	122.0
192	23.9	17.0	25.6

Manual Integrations

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#37

Ethyl Acetate

Concen: 37.904 ug/l

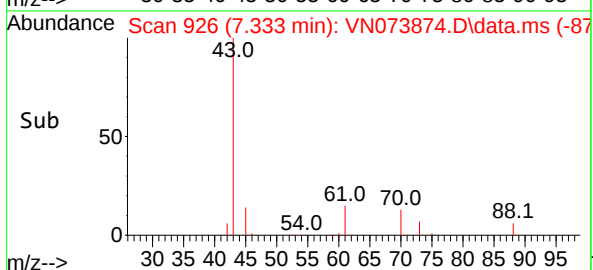
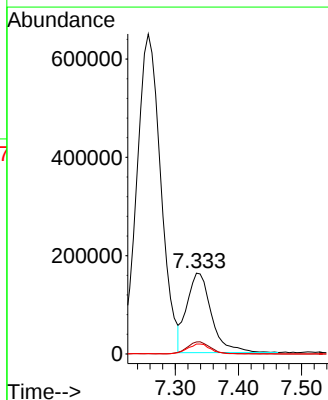
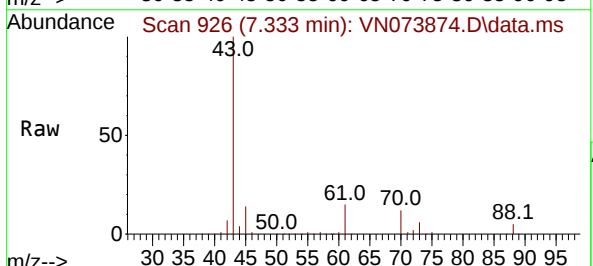
RT: 7.333 min Scan# 926

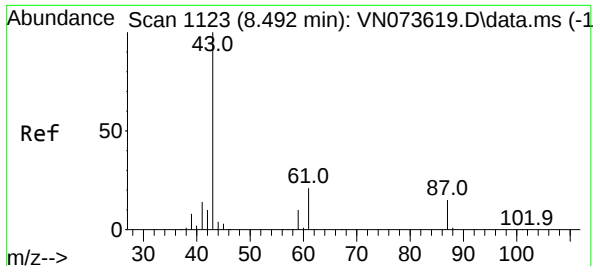
Delta R.T. -0.006 min

Lab File: VN073874.D

Acq: 13 Aug 2022 17:39

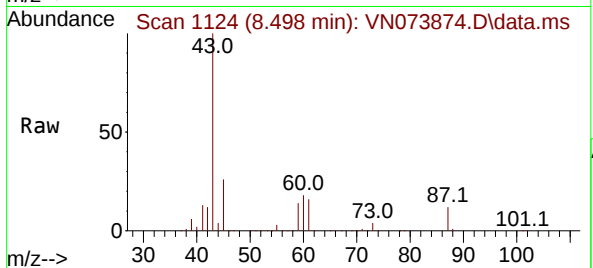
Tgt Ion:	43	Resp:	438613
Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.8	17.6
70	11.2	9.3	13.9





#43
Isopropyl Acetate
Concen: 48.240 ug/l
RT: 8.498 min Scan# 1123
Delta R.T. 0.006 min
Lab File: VN073874.D
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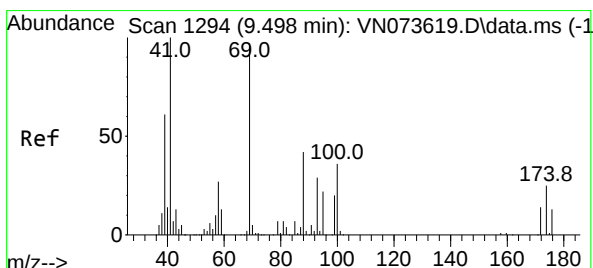
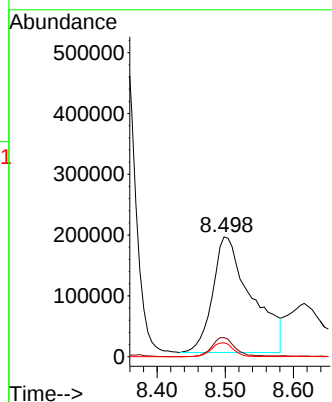
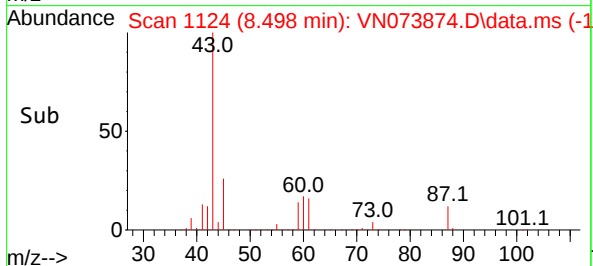
Instrument :
MSVOA_N
ClientSampleId :
11261RE



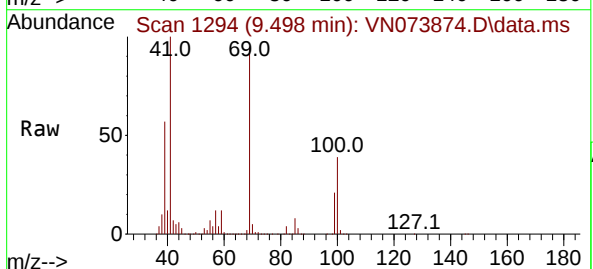
Tgt Ion: 43 Resp: 753980
Ion Ratio Lower Upper
43 100
61 10.0 21.9 32.9
87 6.8 12.0 18.0

Manual Integrations
APPROVED

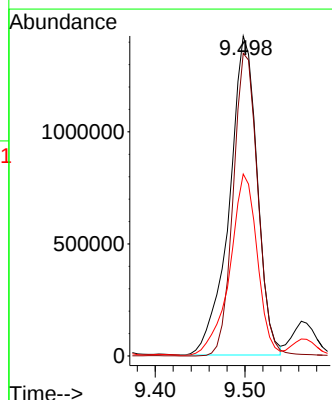
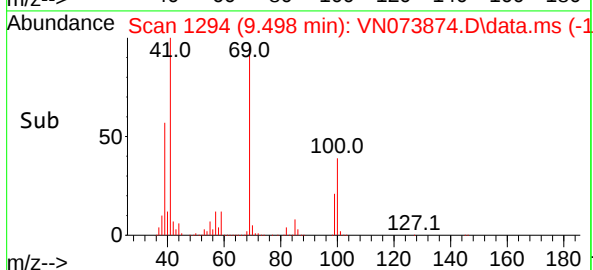
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022

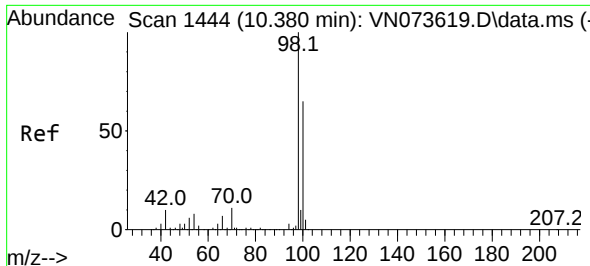


#48
Methyl methacrylate
Concen: 450.344 ug/l
RT: 9.498 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39



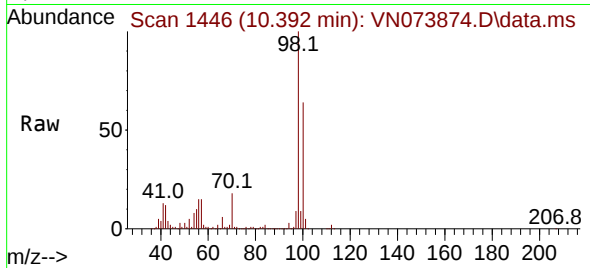
Tgt Ion: 41 Resp: 3081019
Ion Ratio Lower Upper
41 100
69 84.0 74.7 112.1
39 55.6 45.6 68.4





#50
Toluene-d8
Concen: 49.360 ug/l
RT: 10.392 min Scan# 1444
Delta R.T. 0.012 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

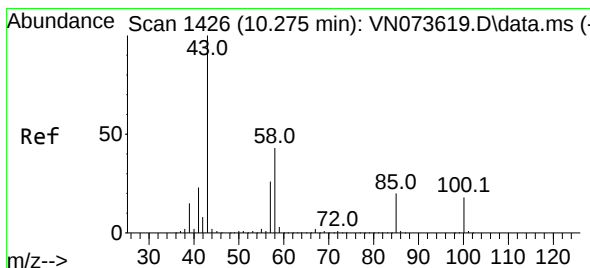
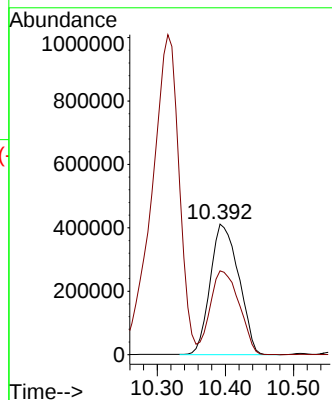
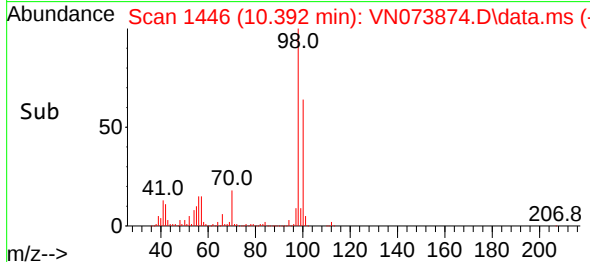
Instrument :
MSVOA_N
ClientSampleId :
11261RE



Tgt Ion: 98 Resp: 1197480
Ion Ratio Lower Upper
98 100
100 65.4 52.6 78.8

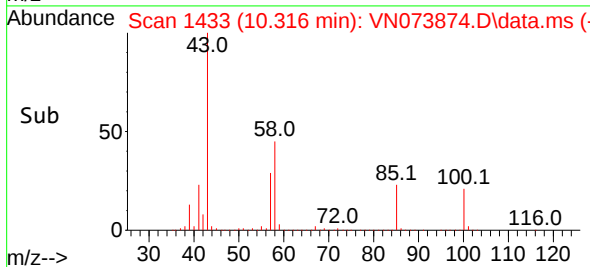
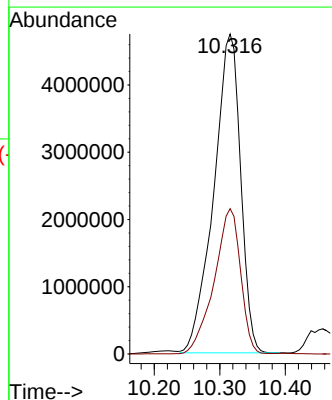
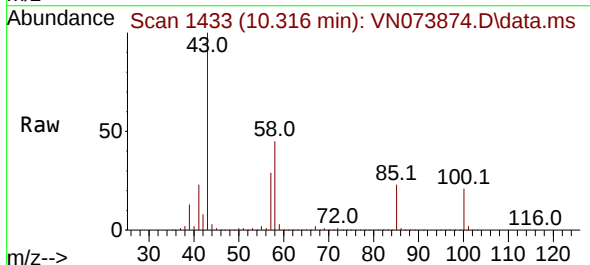
Manual Integrations
APPROVED

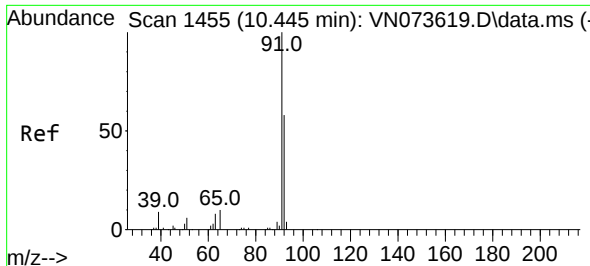
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#51
4-Methyl-2-Pentanone
Concen: 1202.502 ug/l
RT: 10.316 min Scan# 1433
Delta R.T. 0.041 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

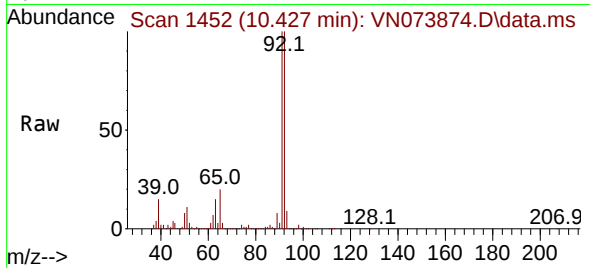
Tgt Ion: 43 Resp:13480233
Ion Ratio Lower Upper
43 100
58 44.8 34.1 51.1





#52
Toluene
Concen: 2999.245 ug/l m
RT: 10.427 min Scan# 1452
Delta R.T. -0.018 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

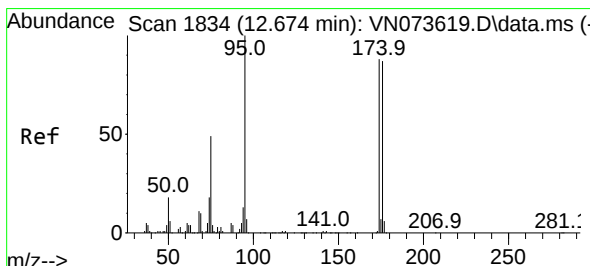
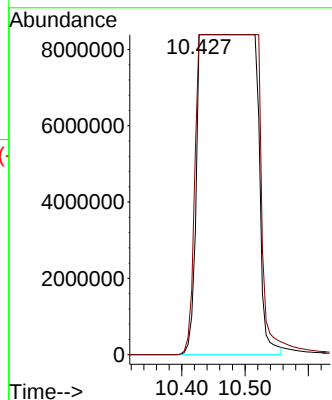
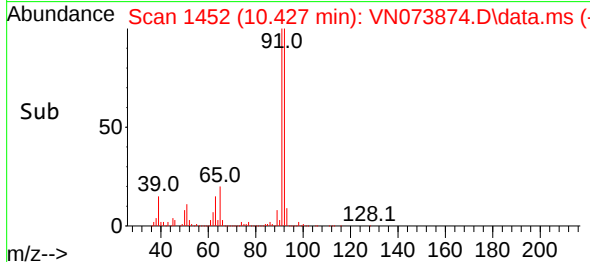
Instrument :
MSVOA_N
ClientSampleId :
11261RE



Tgt Ion: 92 Resp: 5227090
Ion Ratio Lower Upper
92 100
91 0.0 138.6 207.8

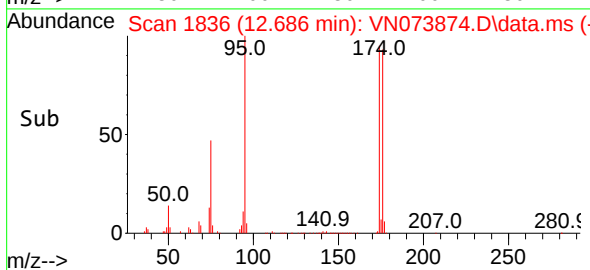
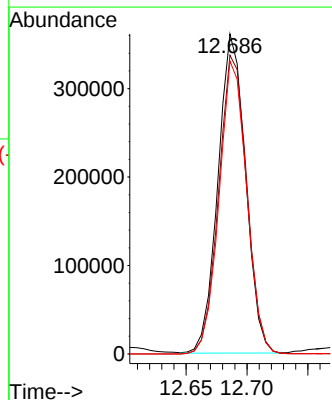
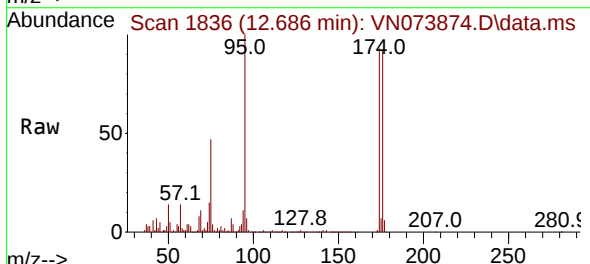
Manual Integrations
APPROVED

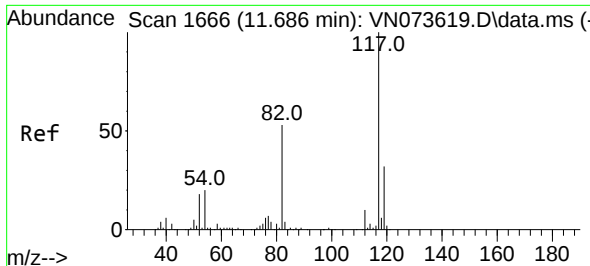
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#62
4-Bromofluorobenzene
Concen: 65.686 ug/l
RT: 12.686 min Scan# 1836
Delta R.T. 0.012 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

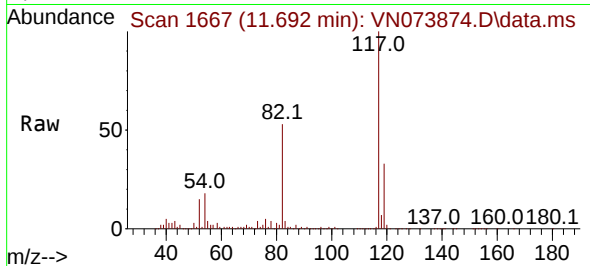
Tgt Ion: 95 Resp: 567175
Ion Ratio Lower Upper
95 100
174 95.9 0.0 167.6
176 92.0 0.0 163.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.692 min Scan# 11667
Delta R.T. 0.006 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

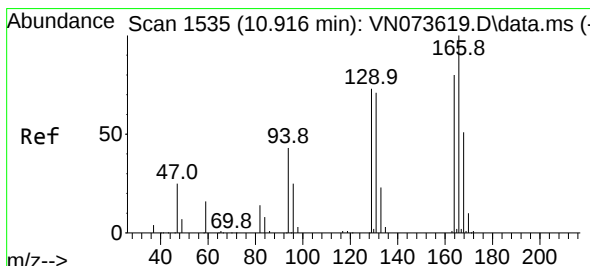
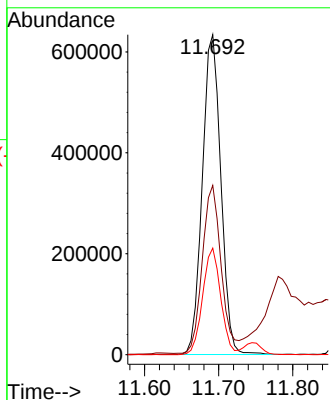
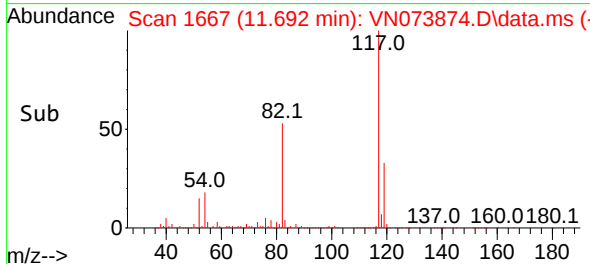
Instrument :
MSVOA_N
ClientSampleId :
11261RE



Tgt Ion:117 Resp: 1099699
Ion Ratio Lower Upper
117 100
82 52.5 44.2 66.2
119 33.3 25.4 38.0

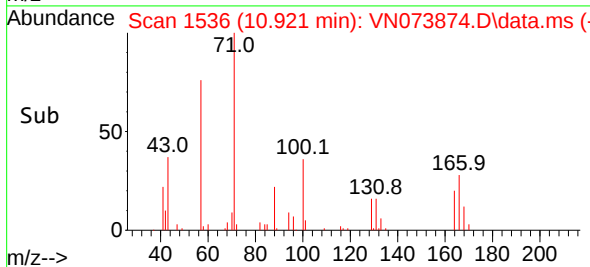
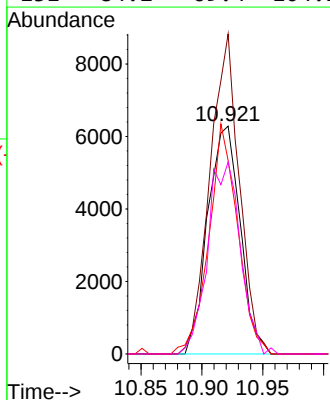
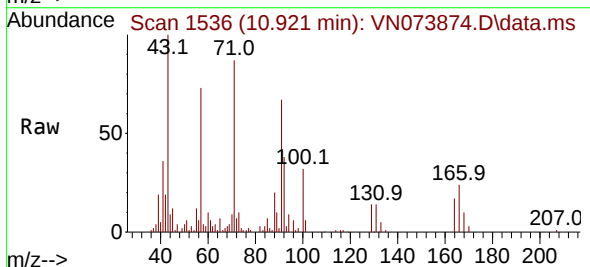
Manual Integrations
APPROVED

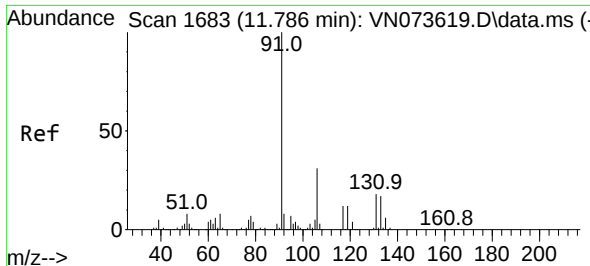
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#64
Tetrachloroethene
Concen: 1.332 ug/l
RT: 10.921 min Scan# 1536
Delta R.T. 0.006 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

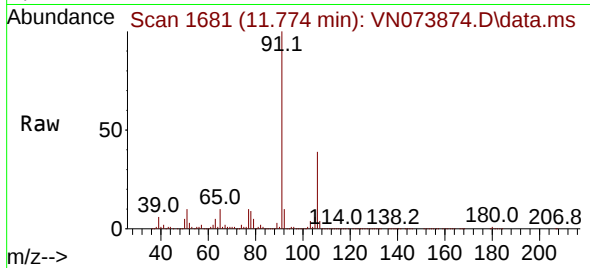
Tgt Ion:164 Resp: 11640
Ion Ratio Lower Upper
164 100
166 140.5 104.2 156.2
129 85.0 73.9 110.9
131 84.2 69.4 104.2





#67
Ethyl Benzene
Concen: 574.069 ug/l m
RT: 11.774 min Scan# 11261RE
Delta R.T. -0.012 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

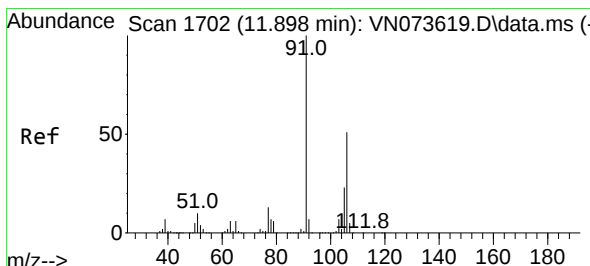
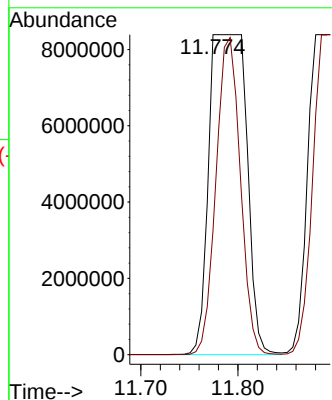
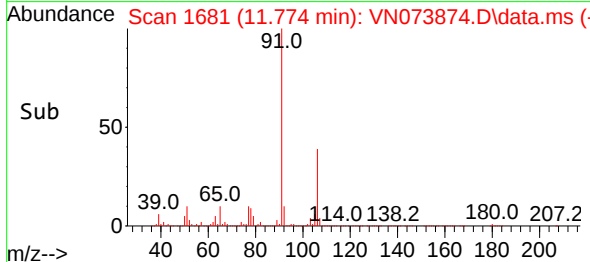
Instrument :
MSVOA_N
ClientSampleId :
11261RE



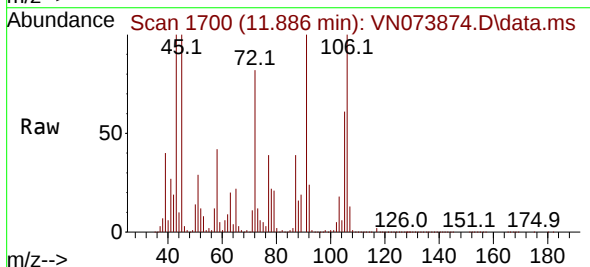
Tgt Ion: 91 Resp:2262231
Ion Ratio Lower Upper
91 100
106 38.8 24.9 37.3#

Manual Integrations
APPROVED

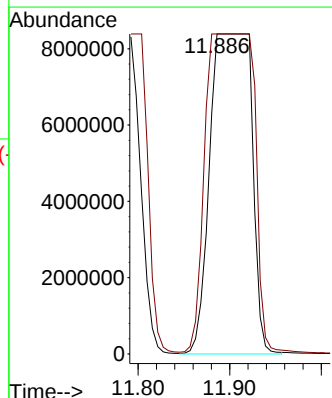
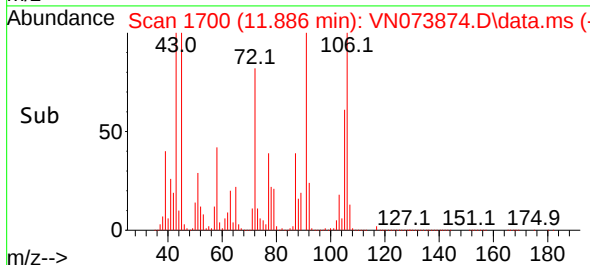
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022

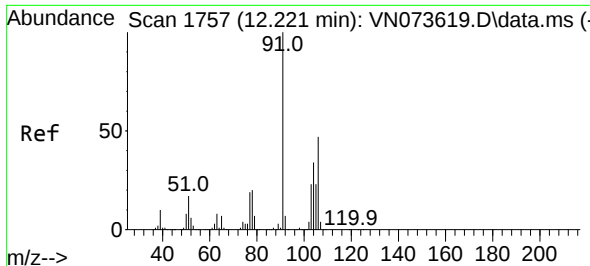


#68
m/p-Xylenes
Concen: 1764.149 ug/l m
RT: 11.886 min Scan# 1700
Delta R.T. -0.012 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39



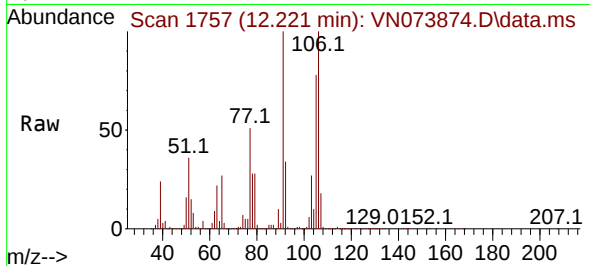
Tgt Ion:106 Resp:26514838
Ion Ratio Lower Upper
106 100
91 0.0 158.9 238.3#





#69
o-Xylene
Concen: 1587.373 ug/l m
RT: 12.221 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

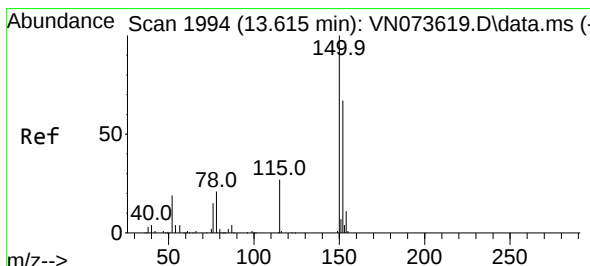
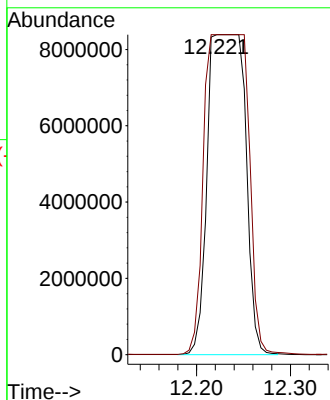
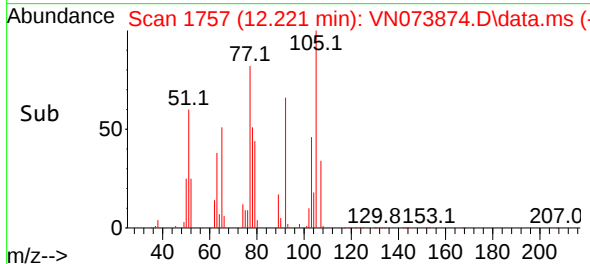
Instrument :
MSVOA_N
ClientSampleId :
11261RE



Tgt Ion:106 Resp:23259824
Ion Ratio Lower Upper
106 100
91 0.0 106.0 318.0

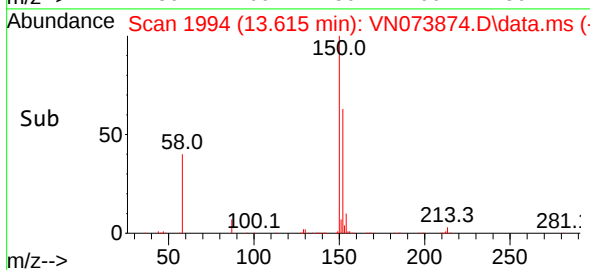
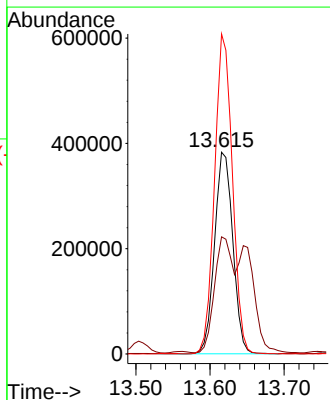
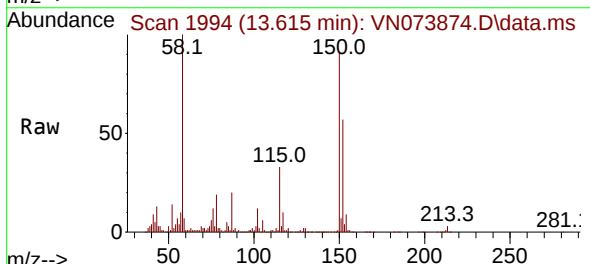
Manual Integrations
APPROVED

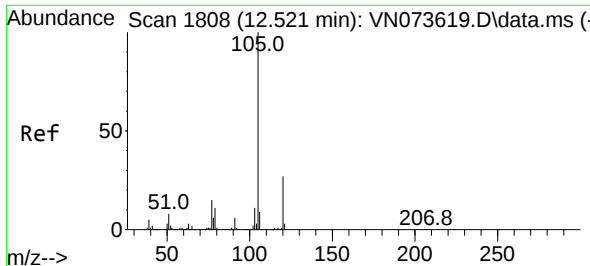
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

Tgt Ion:152 Resp: 656102
Ion Ratio Lower Upper
152 100
115 58.4 28.9 86.7
150 154.5 0.0 356.2





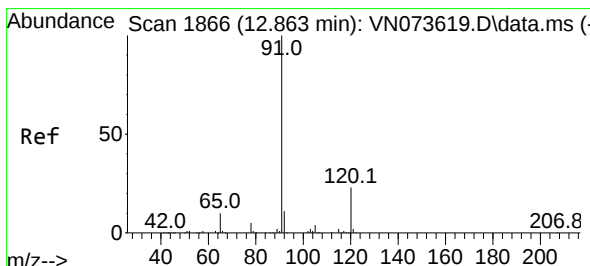
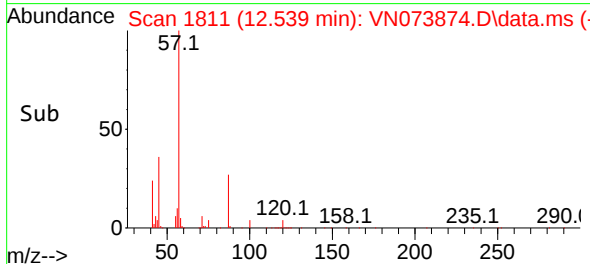
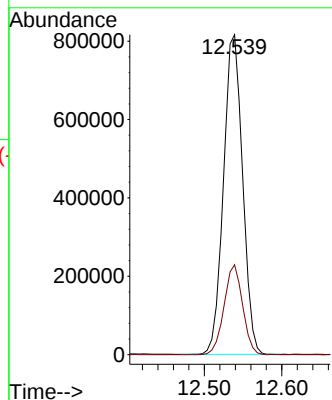
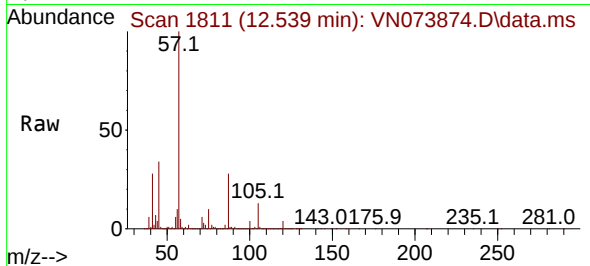
#73
Isopropylbenzene
Concen: 29.132 ug/l
RT: 12.539 min Scan# 1808
Delta R.T. 0.018 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

Instrument :
MSVOA_N
ClientSampleId :
11261RE

Tgt Ion:105 Resp: 1399188
Ion Ratio Lower Upper
105 100
120 27.3 13.5 40.4

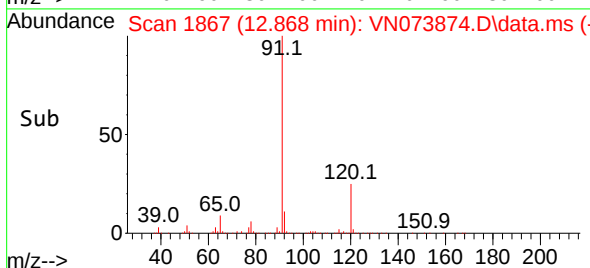
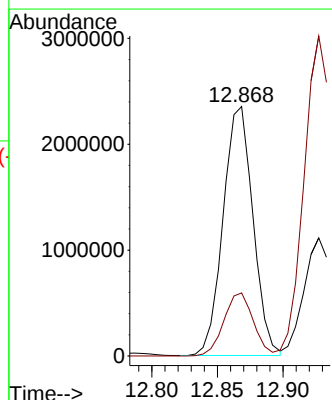
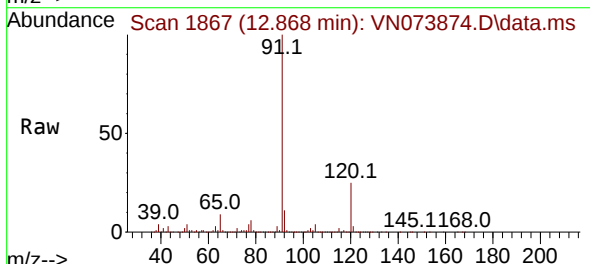
Manual Integrations
APPROVED

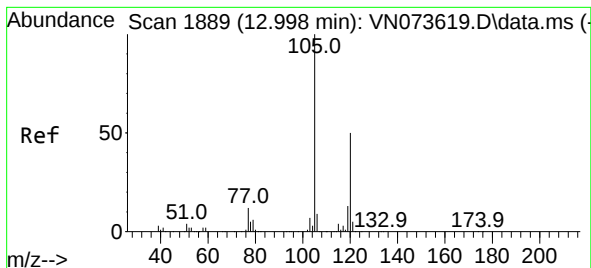
Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#78
n-propylbenzene
Concen: 68.972 ug/l
RT: 12.868 min Scan# 1867
Delta R.T. 0.006 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

Tgt Ion: 91 Resp: 3727299
Ion Ratio Lower Upper
91 100
120 24.9 11.9 35.5





#80

1,3,5-Trimethylbenzene

Concen: 159.003 ug/l

RT: 13.004 min Scan# 11261RE

Delta R.T. 0.006 min

Lab File: VN073874.D

Acq: 13 Aug 2022 17:39

Instrument :

MSVOA_N

ClientSampleId :

11261RE

Tgt Ion:105 Resp: 6284500

Ion Ratio Lower Upper

105 100

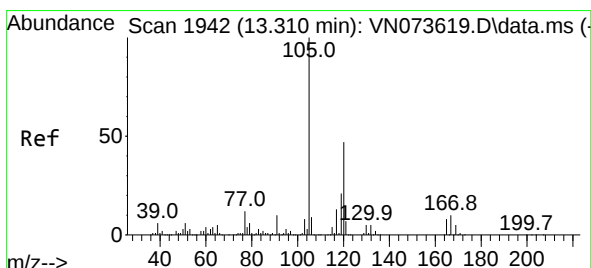
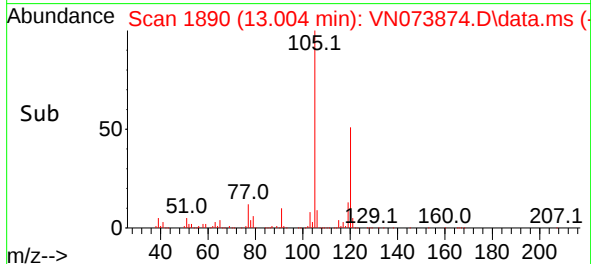
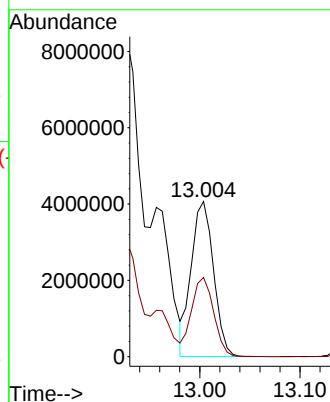
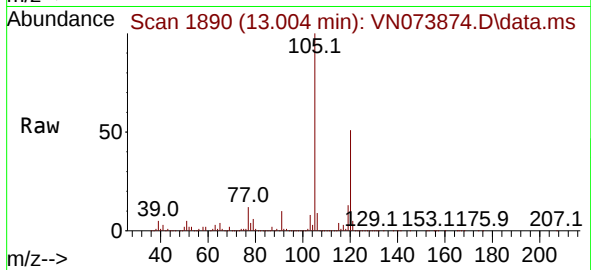
120 51.0 24.9 74.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/15/2022

Supervised By :Mahesh Dadoda 08/16/2022



#84

1,2,4-Trimethylbenzene

Concen: 505.235 ug/l

RT: 13.304 min Scan# 1941

Delta R.T. -0.006 min

Lab File: VN073874.D

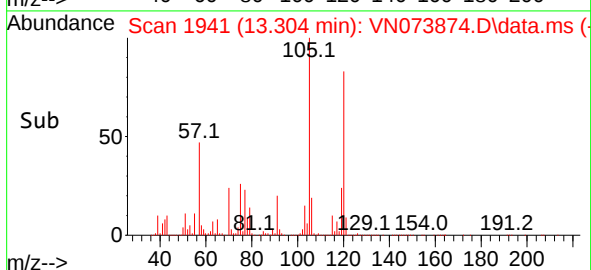
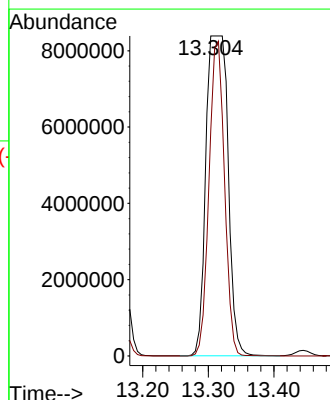
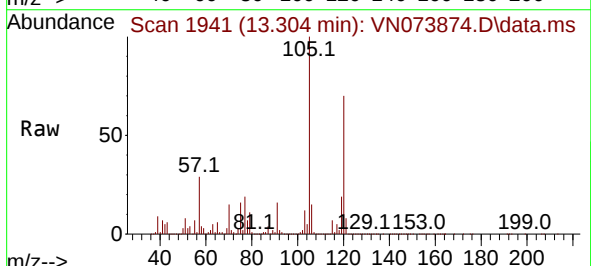
Acq: 13 Aug 2022 17:39

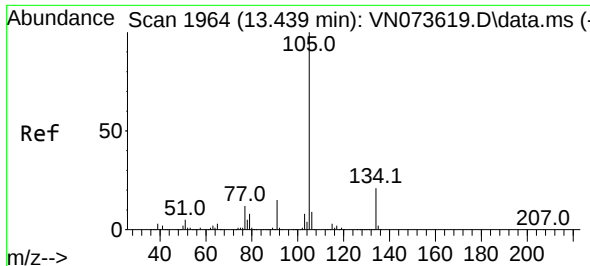
Tgt Ion:105 Resp:19635572

Ion Ratio Lower Upper

105 100

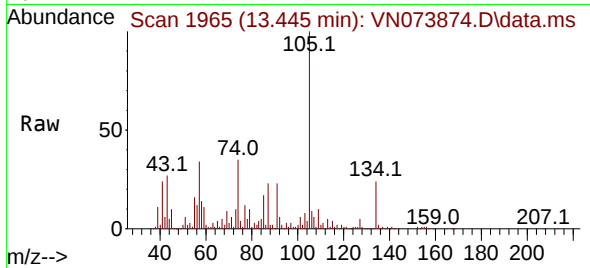
120 68.9 23.3 69.8





#85
 sec-Butylbenzene
 Concen: 5.015 ug/l m
 RT: 13.445 min Scan# 1965
 Delta R.T. 0.006 min
 Lab File: VN073874.D
 Acq: 13 Aug 2022 17:39

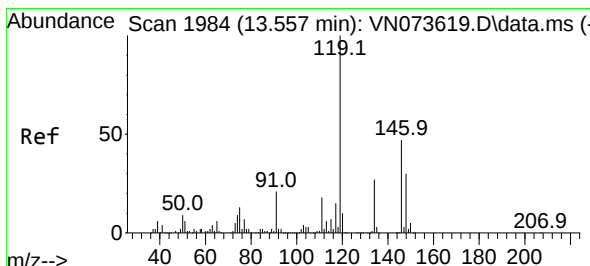
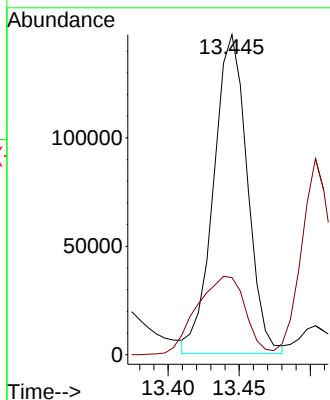
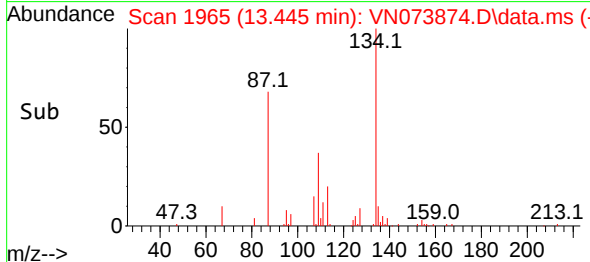
Instrument :
 MSVOA_N
 ClientSampleId :
 11261RE



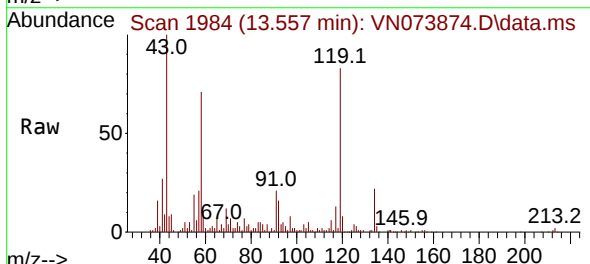
Tgt Ion:105 Resp: 242654
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.1

Manual Integrations
 APPROVED

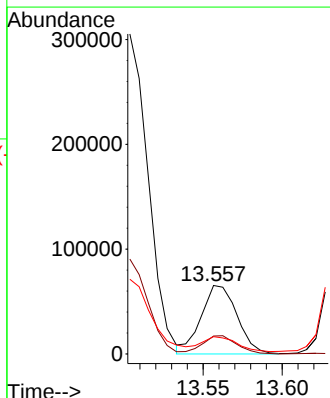
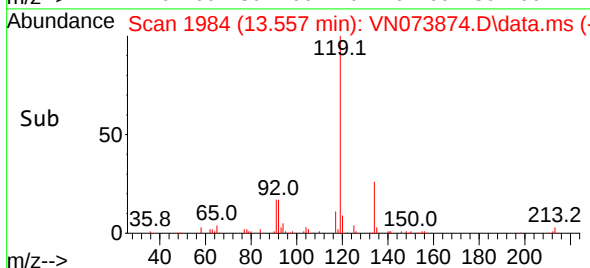
Reviewed By :John Carlone 08/15/2022
 Supervised By :Mahesh Dadoda 08/16/2022

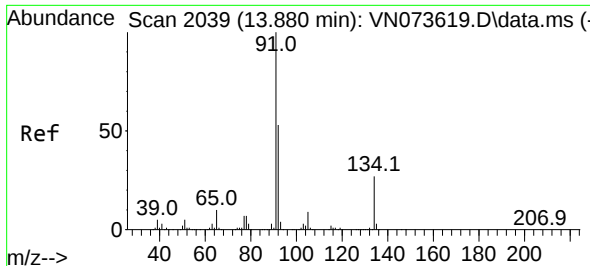


#86
 p-Isopropyltoluene
 Concen: 2.709 ug/l m
 RT: 13.557 min Scan# 1984
 Delta R.T. -0.000 min
 Lab File: VN073874.D
 Acq: 13 Aug 2022 17:39



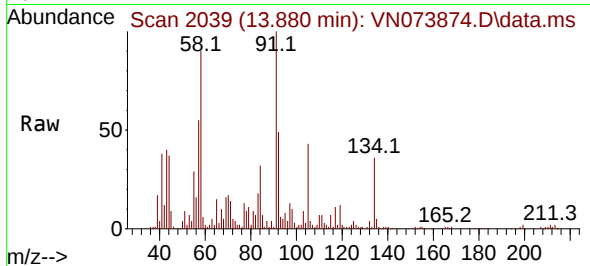
Tgt Ion:119 Resp: 103345
 Ion Ratio Lower Upper
 119 100
 134 129.0 13.3 39.8#
 91 100.6 11.3 33.9#





#89
n-Butylbenzene
Concen: 2.904 ug/l
RT: 13.880 min Scan# 2039
Delta R.T. -0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39

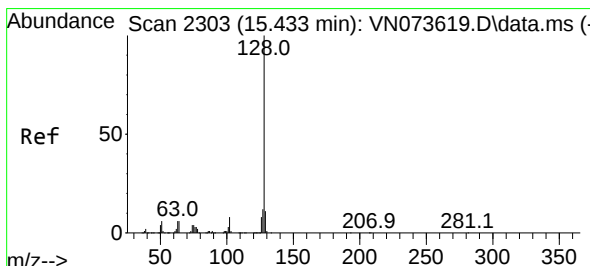
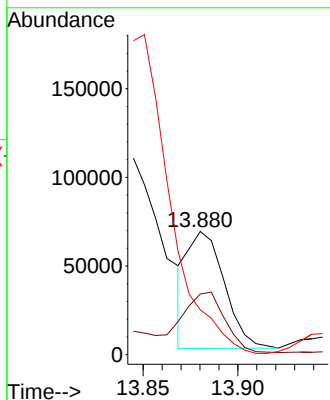
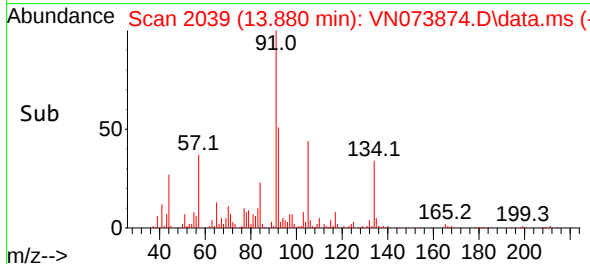
Instrument :
MSVOA_N
ClientSampleId :
11261RE



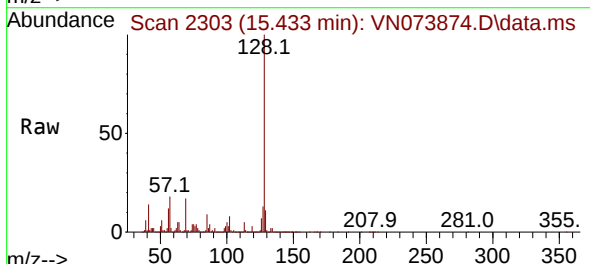
Tgt Ion: 91 Resp: 90124
Ion Ratio Lower Upper
91 100
92 61.2 26.9 80.7
134 0.0 13.6 40.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/15/2022
Supervised By :Mahesh Dadoda 08/16/2022



#95
Naphthalene
Concen: 42.324 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN073874.D
Acq: 13 Aug 2022 17:39



Tgt Ion:128 Resp: 1577891
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.9 8.6 13.0

