

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081622\
 Data File : VN073943.D
 Acq On : 16 Aug 2022 12:55
 Operator : JC\MD
 Sample : N4198-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GFD-TOTES

Manual Integrations
 APPROVED

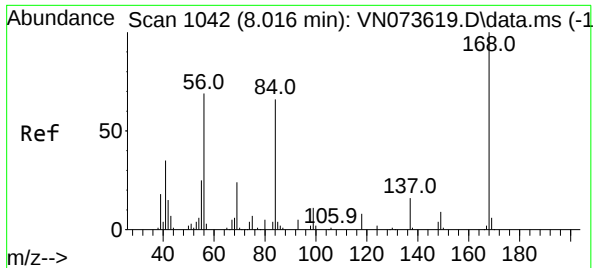
Reviewed By : John Carlone 08/17/2022
 Supervised By : Mahesh Dadoda 08/17/2022

Quant Time: Aug 17 01:12:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081522W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 16 00:45:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.016	168	631970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	902565	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	872195	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	501891	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	297590	48.346	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.700%		
35) Dibromofluoromethane	7.951	113	289767	54.287	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.580%		
50) Toluene-d8	10.380	98	953277	46.114	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.220%		
62) 4-Bromofluorobenzene	12.669	95	414650	60.438	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	120.880%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.287	59	18702	13.583	ug/l	96
16) Acetone	4.216	43	2729099	939.765	ug/l	100
17) Carbon Disulfide	4.463	76	16702	1.408	ug/l #	90
19) Methyl tert-butyl Ether	5.534	73	11512	0.641	ug/l	96
20) Methylene Chloride	5.022	84	5281m	0.862	ug/l	
25) 2-Butanone	7.263	43	102611	22.284	ug/l	98
40) Benzene	8.398	78	9657	0.413	ug/l #	86
51) 4-Methyl-2-Pentanone	10.275	43	53528	6.188	ug/l	97
52) Toluene	10.445	92	1952342	121.678	ug/l	100
59) 2-Hexanone	11.027	43	592133	88.938	ug/l	100
67) Ethyl Benzene	11.786	91	39381	1.277	ug/l	95
68) m/p-Xylenes	11.892	106	70283	5.611	ug/l	97
69) o-Xylene	12.222	106	63796	5.079	ug/l	98
70) Styrene	12.233	104	48676	2.475	ug/l #	87
73) Isopropylbenzene	12.522	105	15459	0.423	ug/l	99
78) n-propylbenzene	12.863	91	33916	0.871	ug/l	100
80) 1,3,5-Trimethylbenzene	12.998	105	103465	3.481	ug/l	98
84) 1,2,4-Trimethylbenzene	13.304	105	280945	9.464	ug/l	99
85) sec-Butylbenzene	13.445	105	20363	0.574	ug/l	82
86) p-Isopropyltoluene	13.557	119	19090	0.632	ug/l	96
89) n-Butylbenzene	13.880	91	19010	0.795	ug/l #	71
95) Naphthalene	15.433	128	245852	6.994	ug/l	98

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



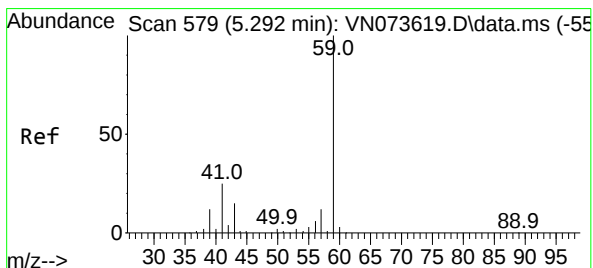
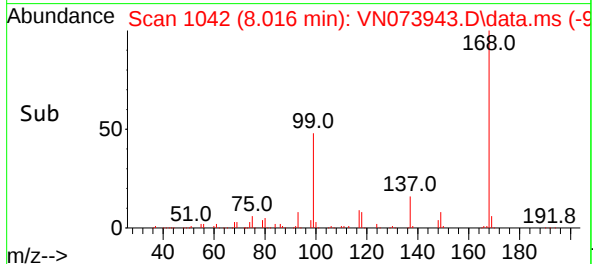
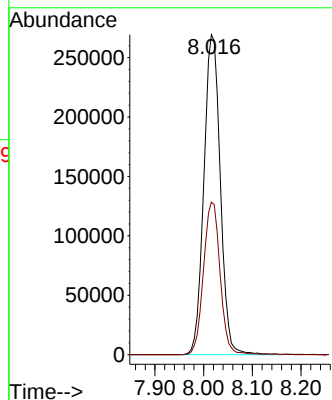
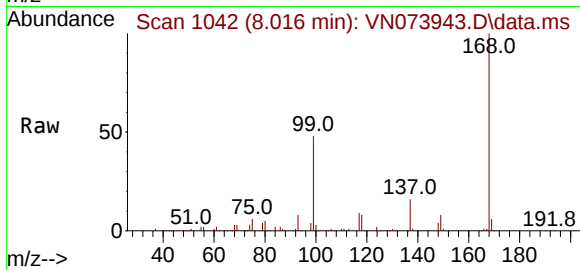
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES

Tgt Ion:168 Resp: 631970
Ion Ratio Lower Upper
168 100
99 47.7 42.3 63.5

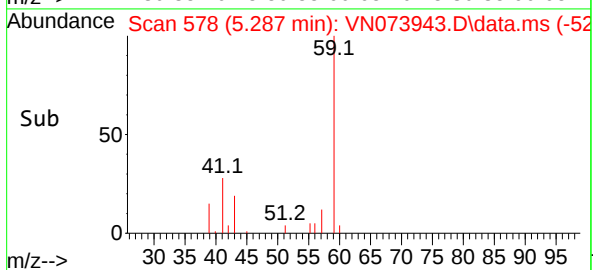
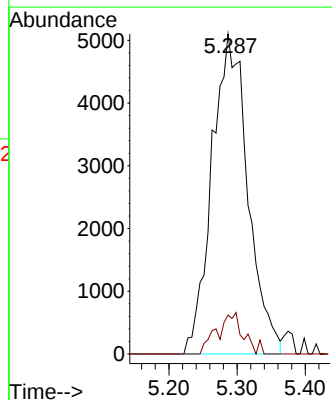
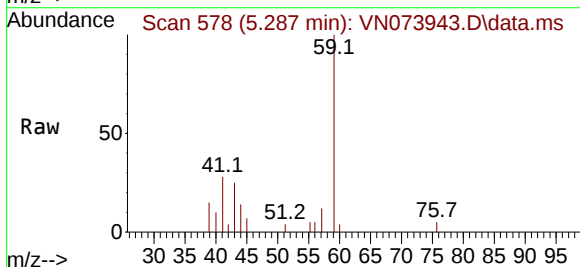
Manual Integrations
APPROVED

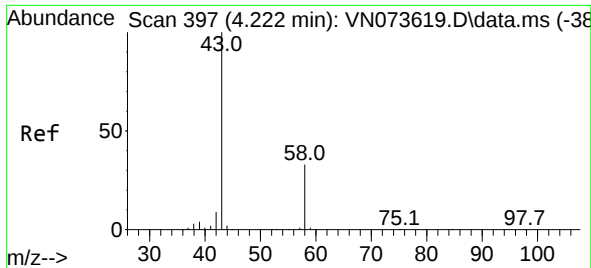
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#11
Tert butyl alcohol
Concen: 13.583 ug/l
RT: 5.287 min Scan# 578
Delta R.T. -0.005 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Tgt Ion: 59 Resp: 18702
Ion Ratio Lower Upper
59 100
57 9.0 8.3 12.5





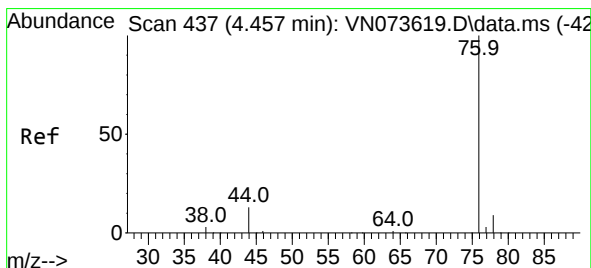
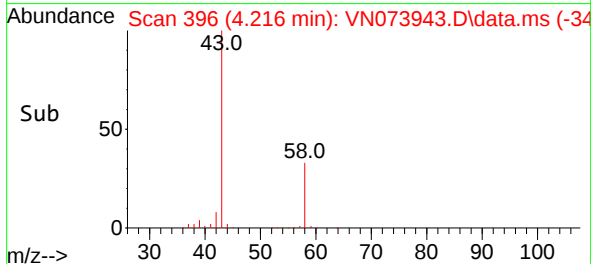
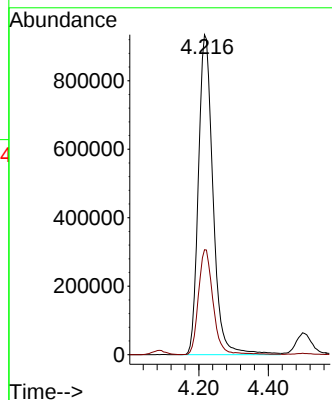
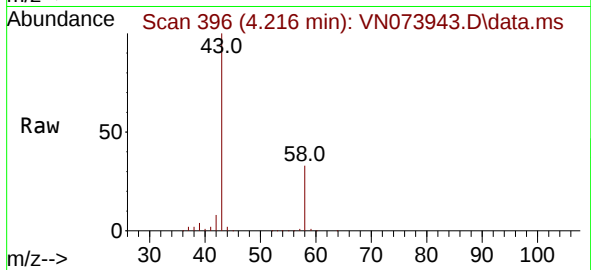
#16
Acetone
Concen: 939.765 ug/l
RT: 4.216 min Scan# 397
Delta R.T. -0.006 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES

Tgt Ion: 43 Resp: 2729099
Ion Ratio Lower Upper
43 100
58 32.8 26.0 39.0

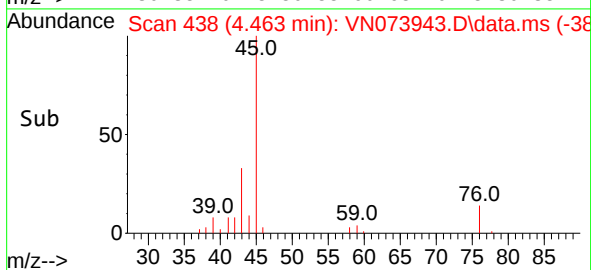
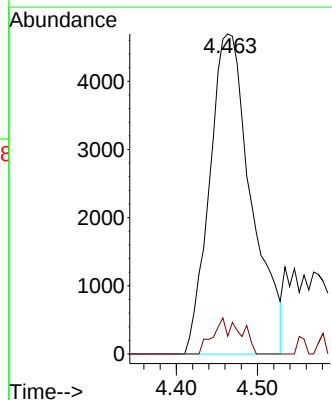
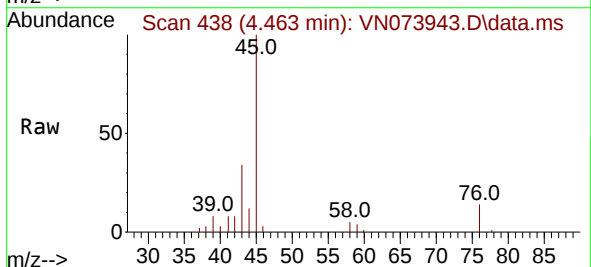
Manual Integrations
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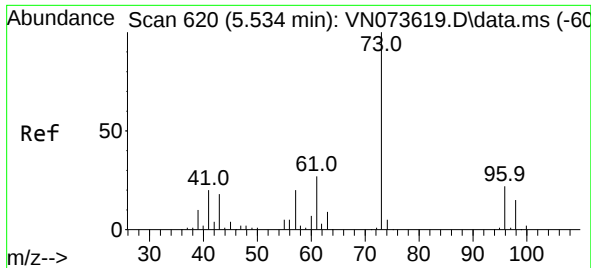
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#17
Carbon Disulfide
Concen: 1.408 ug/l
RT: 4.463 min Scan# 438
Delta R.T. 0.006 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Tgt Ion: 76 Resp: 16702
Ion Ratio Lower Upper
76 100
78 5.6 7.2 10.8#





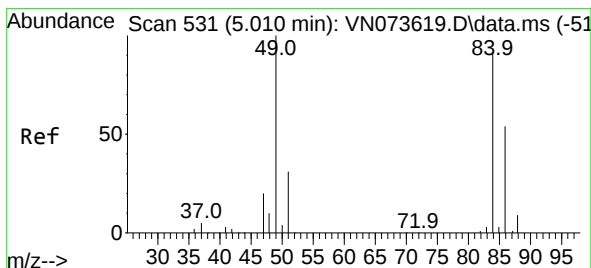
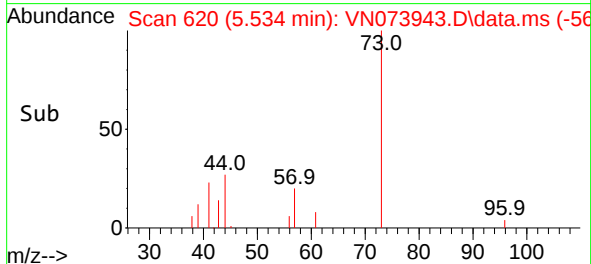
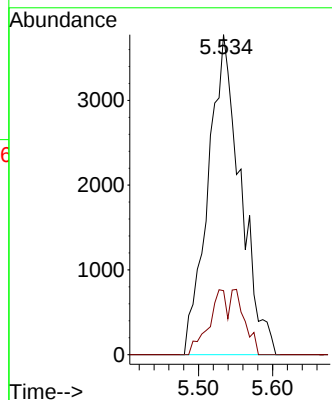
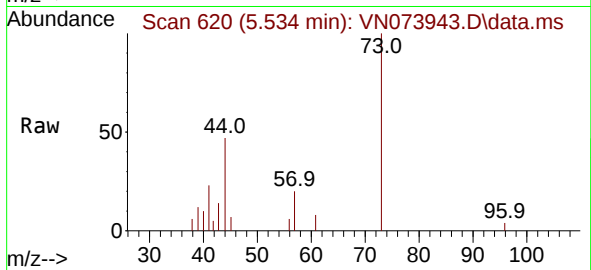
#19
Methyl tert-butyl Ether
Concen: 0.641 ug/l
RT: 5.534 min Scan# 619
Delta R.T. -0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES

Tgt Ion: 73 Resp: 1151
Ion Ratio Lower Upper
73 100
57 20.0 17.6 26.4

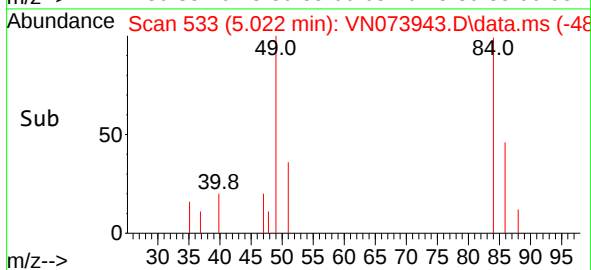
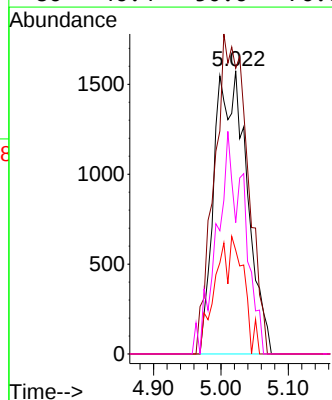
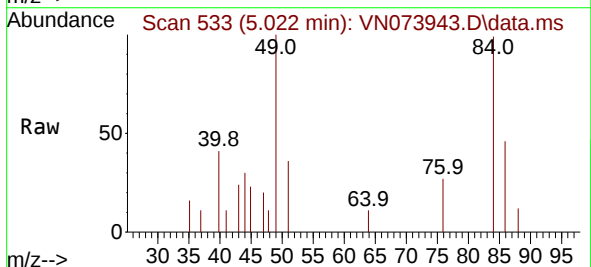
Manual Integrations
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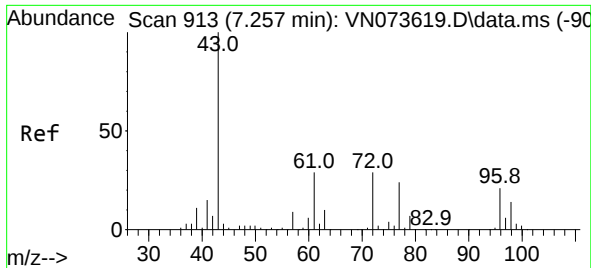
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#20
Methylene Chloride
Concen: 0.862 ug/l m
RT: 5.022 min Scan# 533
Delta R.T. 0.012 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

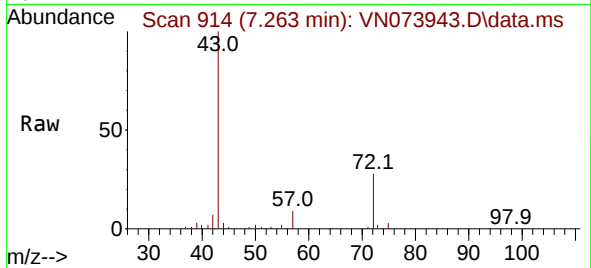
Tgt Ion: 84 Resp: 5281
Ion Ratio Lower Upper
84 100
49 100.9 88.3 132.5
51 36.6 28.2 42.2
86 46.4 50.6 76.0#





#25
2-Butanone
Concen: 22.284 ug/l
RT: 7.263 min Scan# 913
Delta R.T. 0.006 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

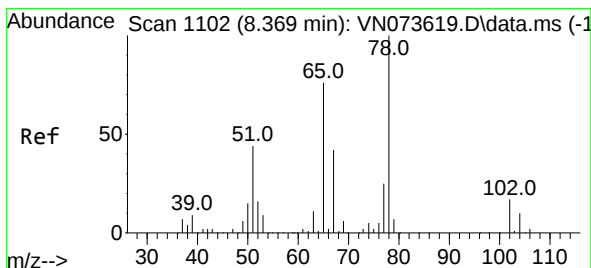
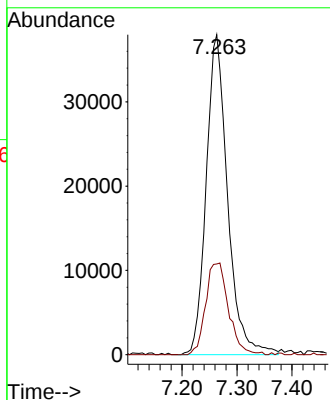
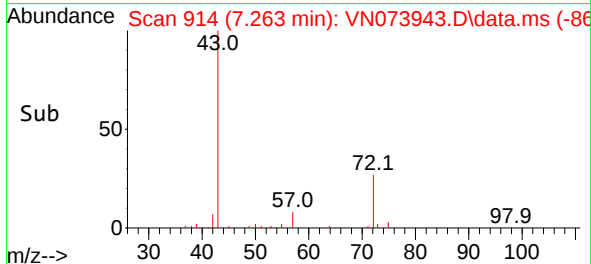
Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES



Tgt Ion: 43 Resp: 10261
Ion Ratio Lower Upper
43 100
72 28.3 23.7 35.5

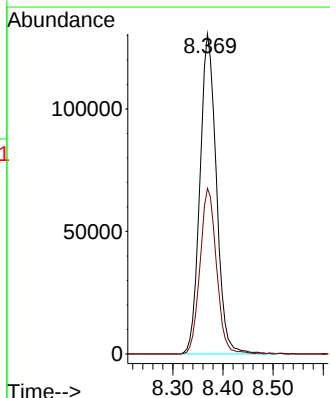
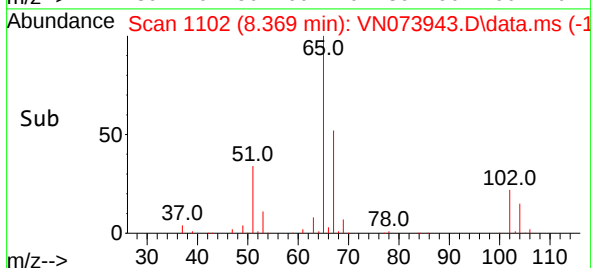
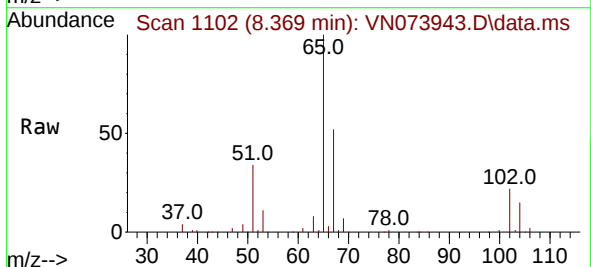
Manual Integrations
APPROVED

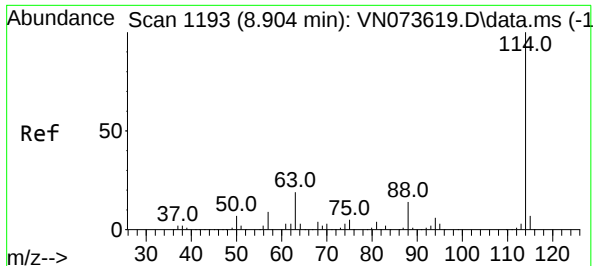
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#33
1,2-Dichloroethane-d4
Concen: 48.346 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Tgt Ion: 65 Resp: 297590
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN073943.D

Acq: 16 Aug 2022 12:55

Instrument :

MSVOA_N

ClientSampleId :

GFD-TOTES

Tgt Ion:114 Resp: 90256

Ion Ratio Lower Upper

114 100

63 17.7 0.0 40.0

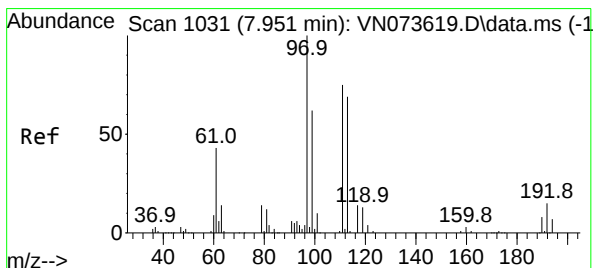
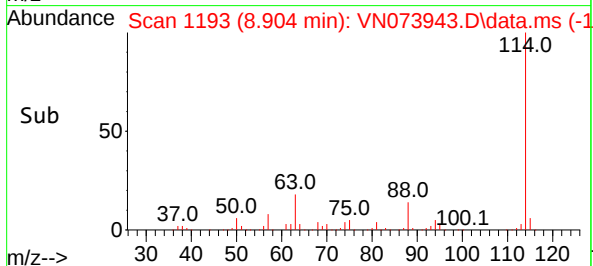
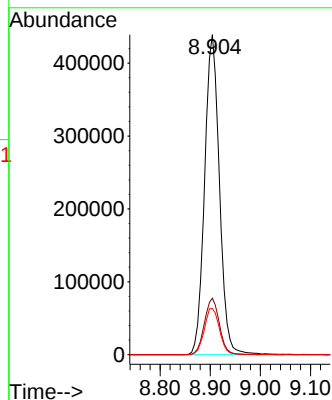
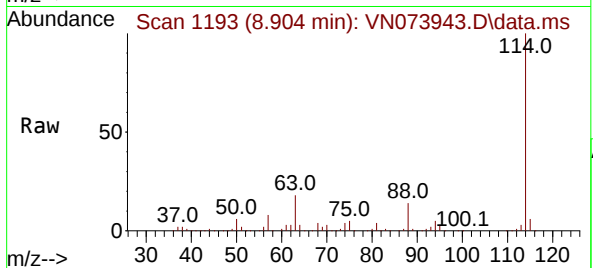
88 14.4 0.0 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/17/2022

Supervised By :Mahesh Dadoda 08/17/2022



#35

Dibromofluoromethane

Concen: 54.287 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073943.D

Acq: 16 Aug 2022 12:55

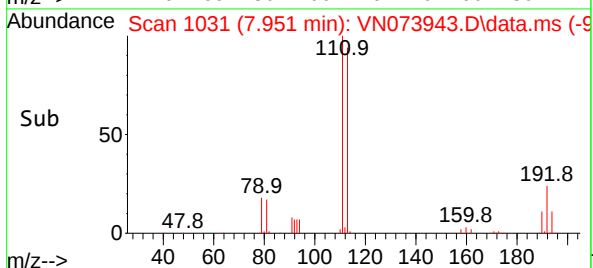
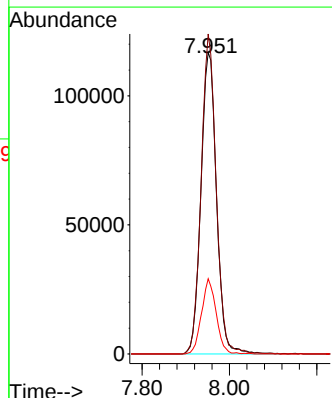
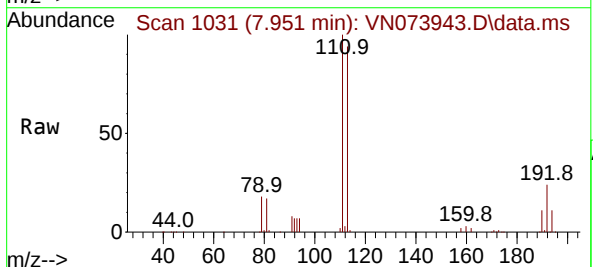
Tgt Ion:113 Resp: 289767

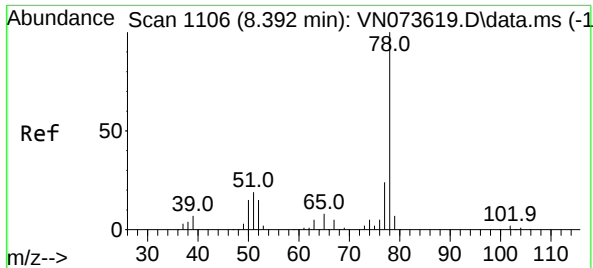
Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

192 23.4 17.0 25.6





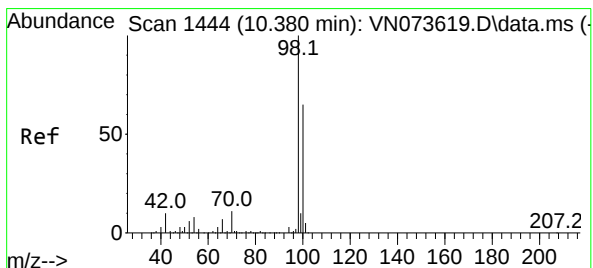
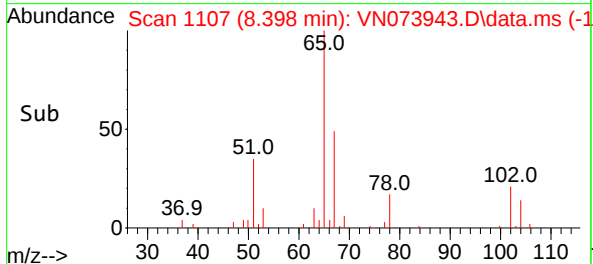
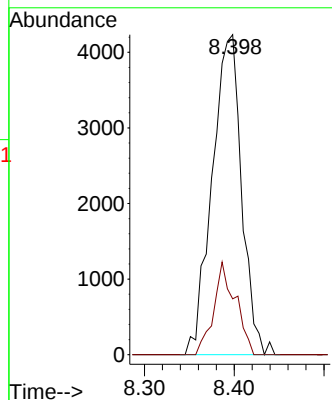
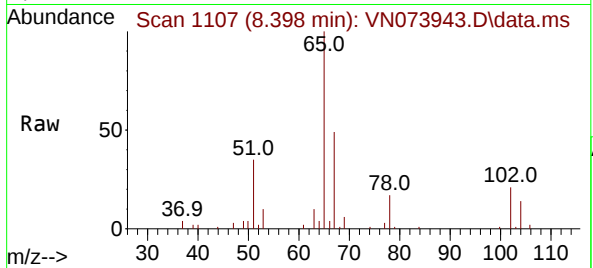
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Benzene
Concen: 0.413 ug/l
RT: 8.398 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES

Tgt Ion: 78 Resp: 965
Ion Ratio Lower Upper
78 100
77 17.5 19.4 29.0

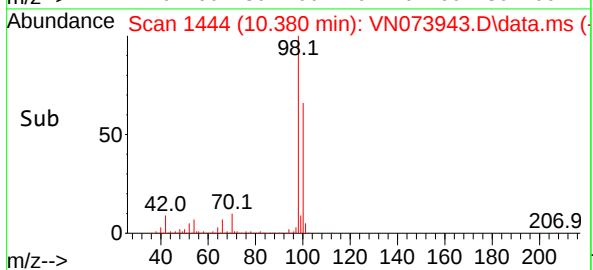
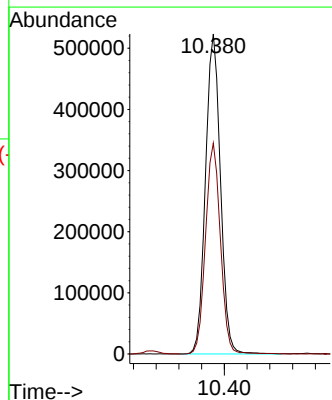
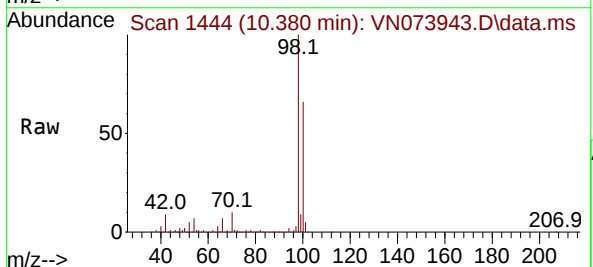
Manual Integrations
APPROVED

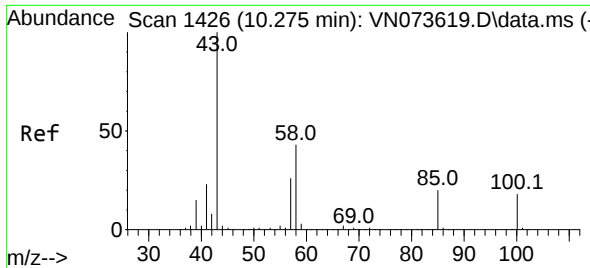
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#50
Toluene-d8
Concen: 46.114 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

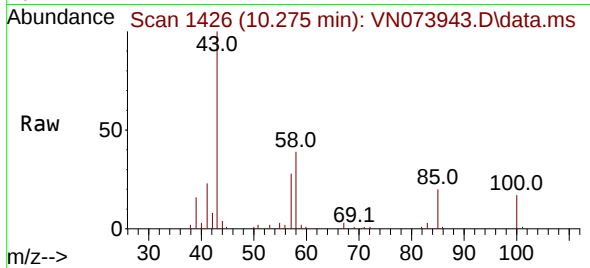
Tgt Ion: 98 Resp: 953277
Ion Ratio Lower Upper
98 100
100 65.7 52.6 78.8





#51
4-Methyl-2-Pentanone
Concen: 6.188 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

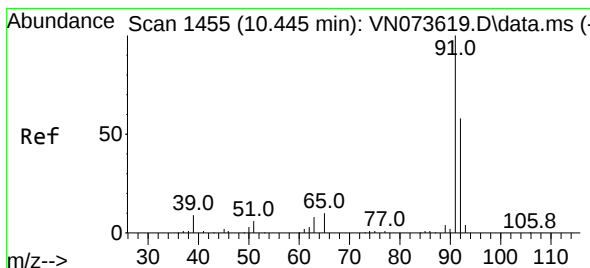
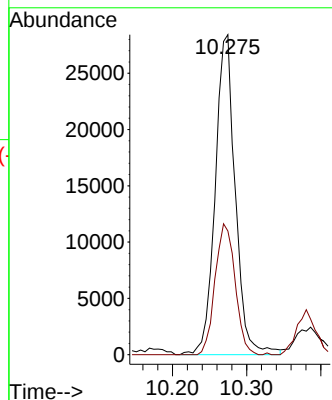
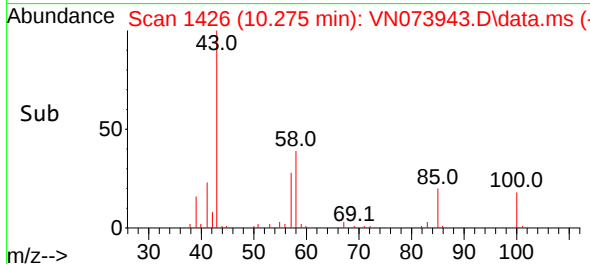
Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES



Tgt Ion: 43 Resp: 53528
Ion Ratio Lower Upper
43 100
58 40.7 34.1 51.1

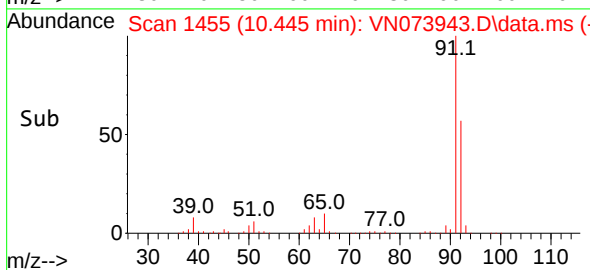
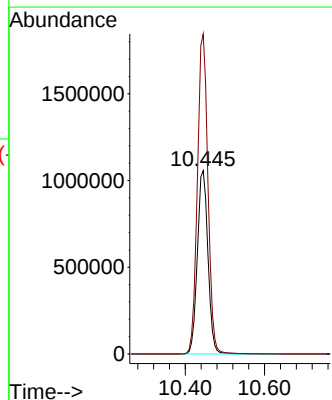
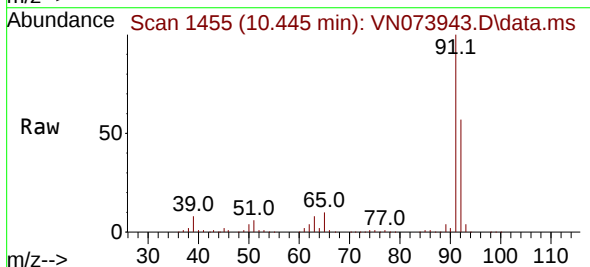
Manual Integrations
APPROVED

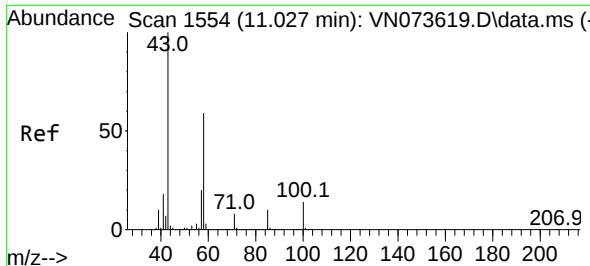
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#52
Toluene
Concen: 121.678 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

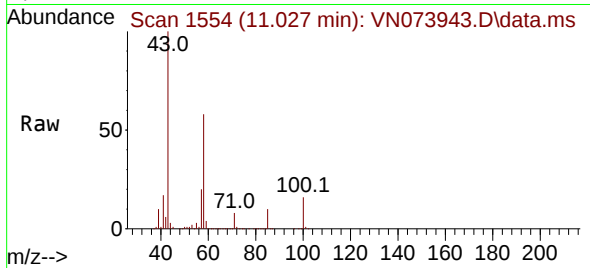
Tgt Ion: 92 Resp: 1952342
Ion Ratio Lower Upper
92 100
91 173.7 138.6 207.8





#59
2-Hexanone
Concen: 88.938 ug/l
RT: 11.027 min Scan# 1554
Delta R.T. 0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

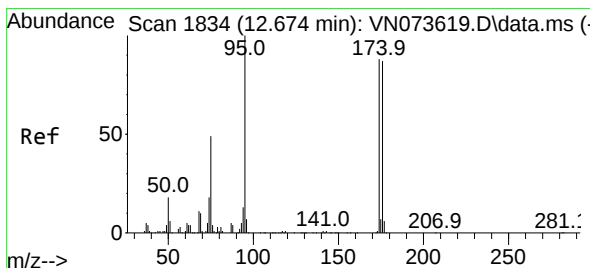
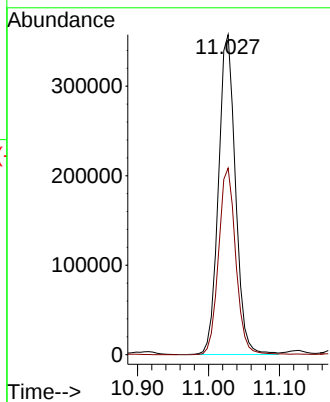
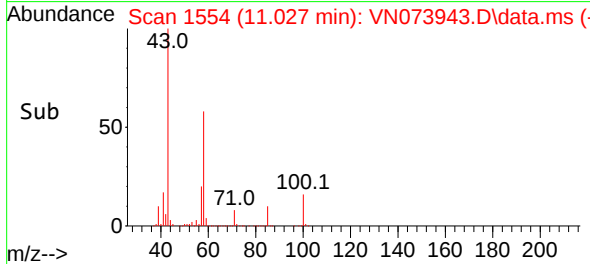
Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES



Tgt Ion: 43 Resp: 59213
Ion Ratio Lower Upper
43 100
58 59.1 29.7 89.1

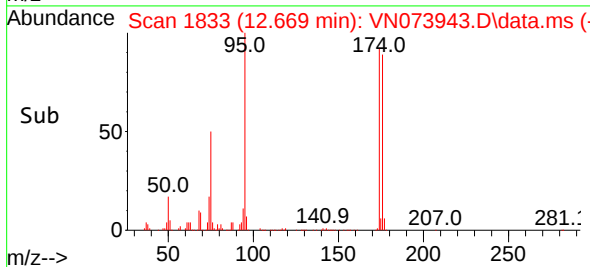
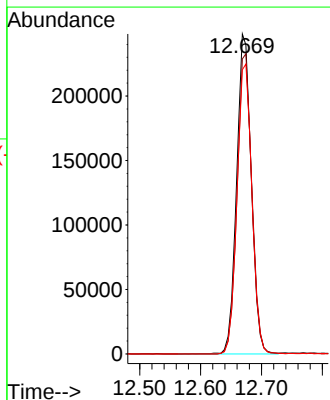
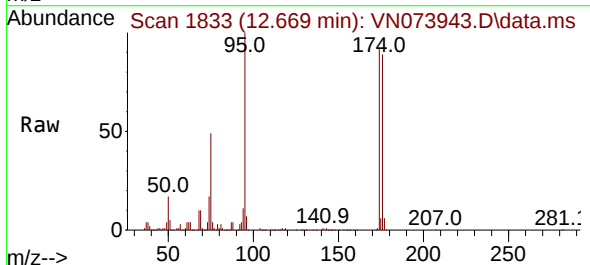
Manual Integrations
APPROVED

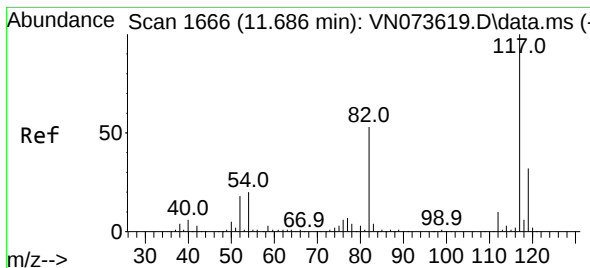
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#62
4-Bromofluorobenzene
Concen: 60.438 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.005 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

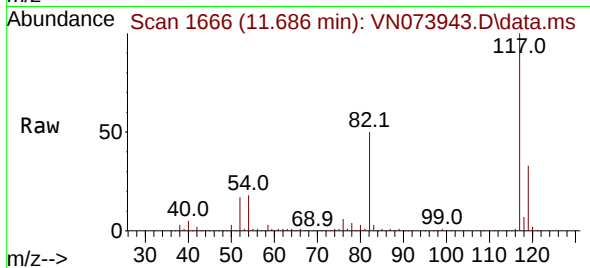
Tgt Ion: 95 Resp: 414650
Ion Ratio Lower Upper
95 100
174 94.1 0.0 167.6
176 92.0 0.0 163.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

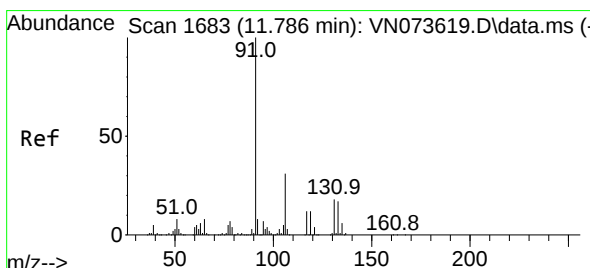
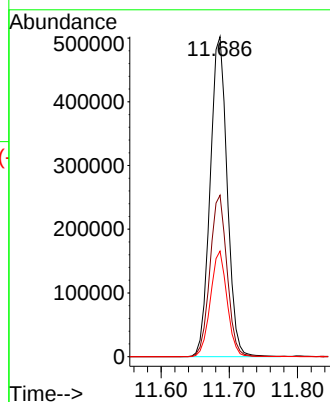
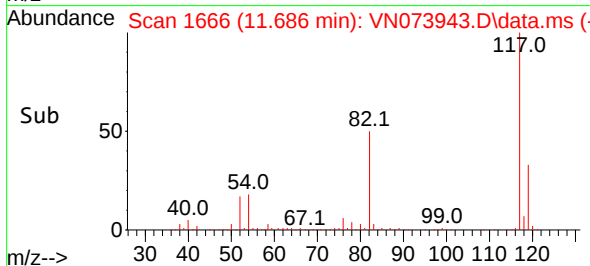
Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES



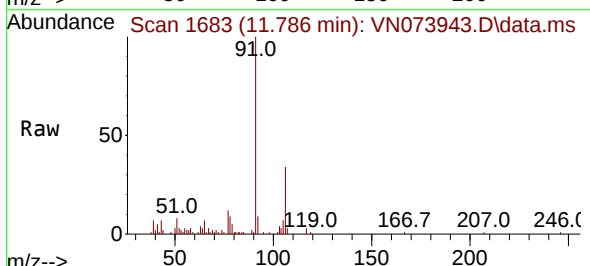
Tgt Ion: 117 Resp: 87219
Ion Ratio Lower Upper
117 100
82 50.4 44.2 66.2
119 33.0 25.4 38.0

Manual Integrations
APPROVED

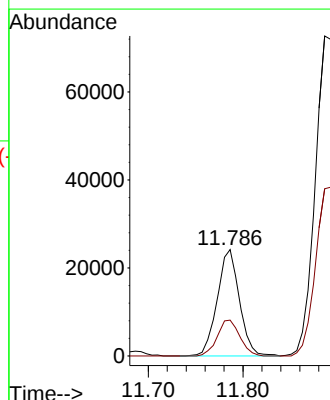
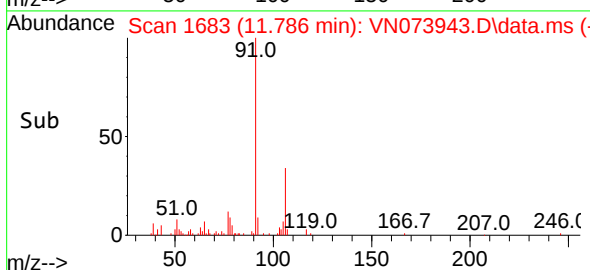
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022

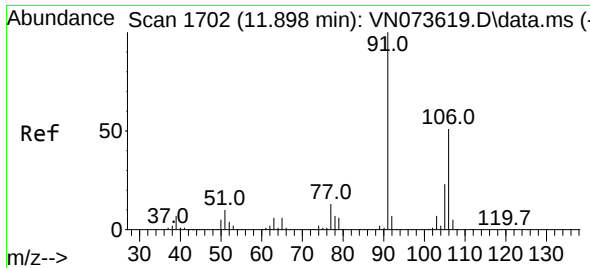


#67
Ethyl Benzene
Concen: 1.277 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55



Tgt Ion: 91 Resp: 39381
Ion Ratio Lower Upper
91 100
106 33.6 24.9 37.3





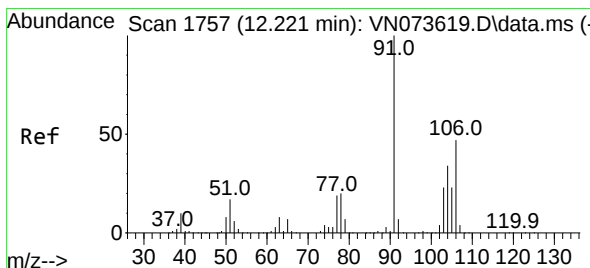
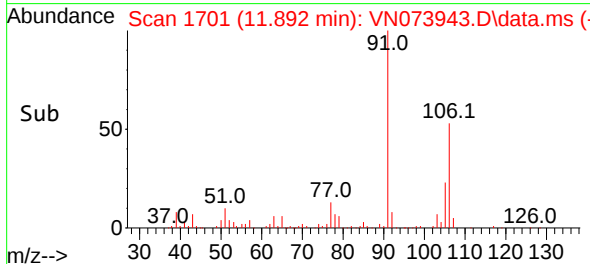
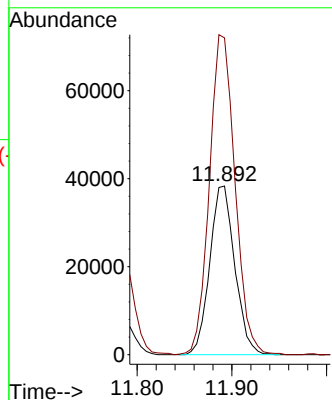
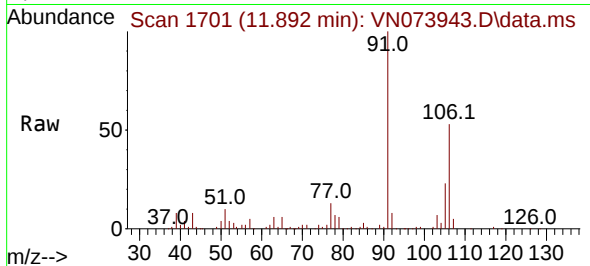
#68
m/p-Xylenes
Concen: 5.611 ug/l
RT: 11.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES

Tgt Ion:106 Resp: 7028
Ion Ratio Lower Upper
106 100
91 194.2 158.9 238.3

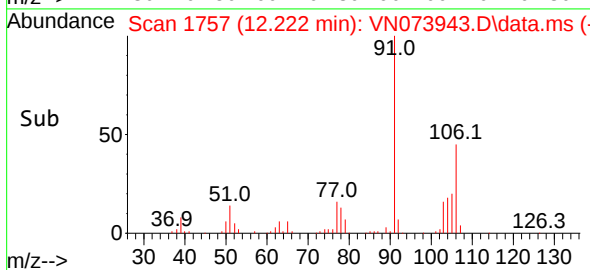
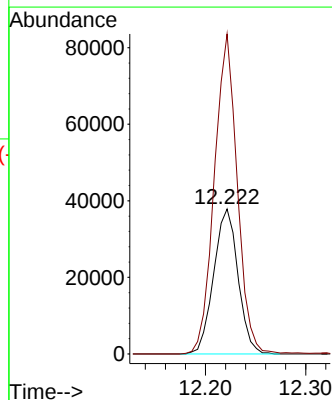
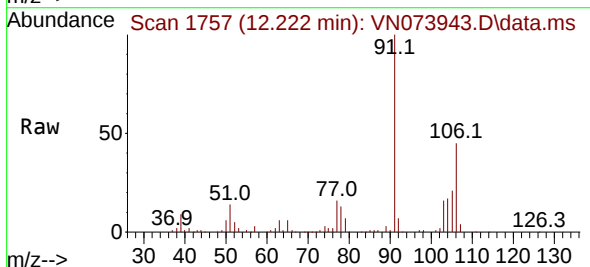
Manual Integrations
APPROVED

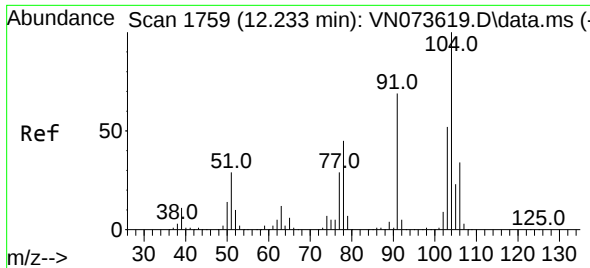
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#69
o-Xylene
Concen: 5.079 ug/l
RT: 12.222 min Scan# 1757
Delta R.T. 0.001 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Tgt Ion:106 Resp: 63796
Ion Ratio Lower Upper
106 100
91 208.6 106.0 318.0





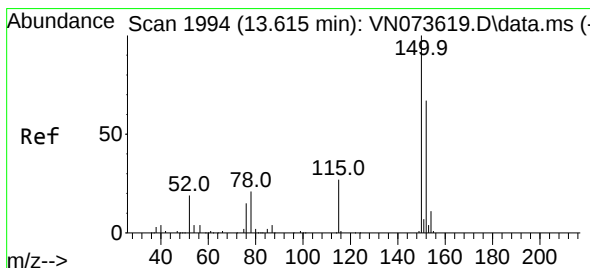
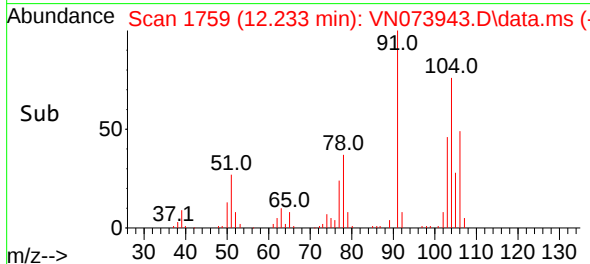
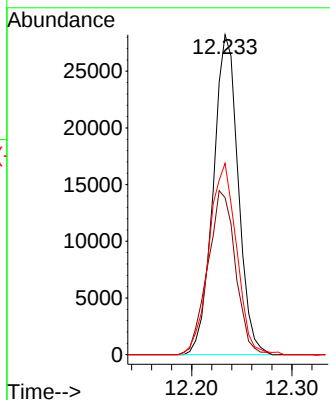
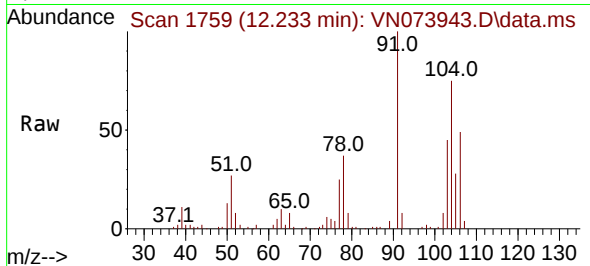
#70
Styrene
Concen: 2.475 ug/l
RT: 12.233 min Scan# 1759
Delta R.T. 0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES

Tgt Ion:104 Resp: 48670
Ion Ratio Lower Upper
104 100
78 56.9 39.5 59.3
103 66.2 44.0 66.0

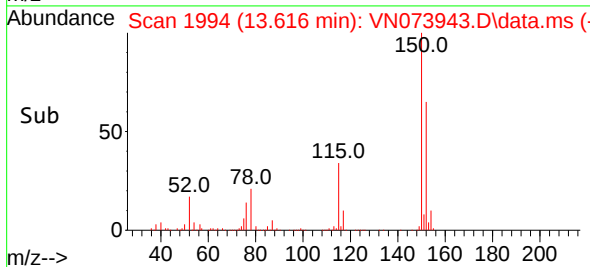
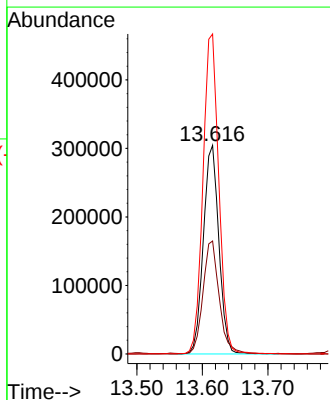
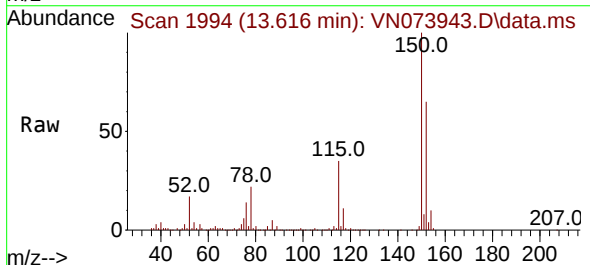
Manual Integrations
APPROVED

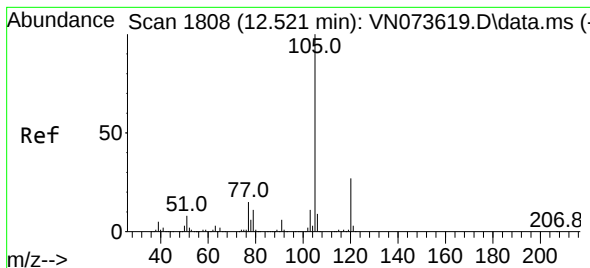
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.001 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

Tgt Ion:152 Resp: 501891
Ion Ratio Lower Upper
152 100
115 56.1 28.9 86.7
150 156.0 0.0 356.2





#73

Isopropylbenzene

Concen: 0.423 ug/l

RT: 12.522 min Scan# 1808

Delta R.T. 0.000 min

Lab File: VN073943.D

Acq: 16 Aug 2022 12:55

Instrument :

MSVOA_N

ClientSampleId :

GFD-TOTES

Tgt Ion:105 Resp: 1545

Ion Ratio Lower Upper

105 100

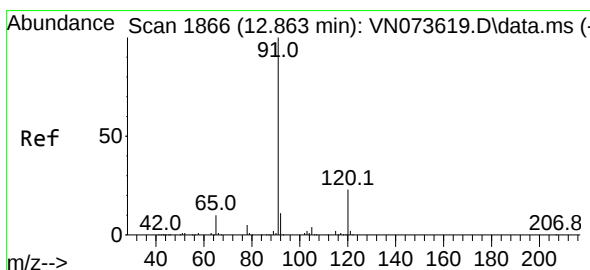
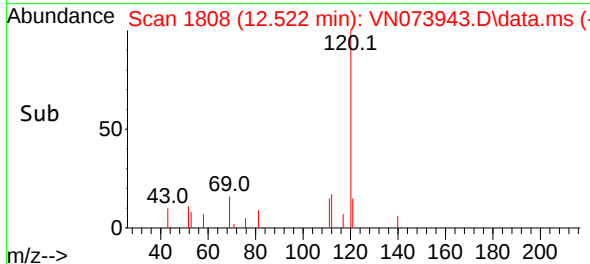
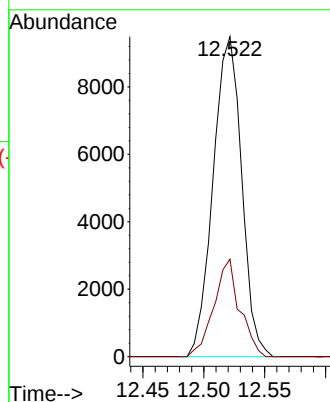
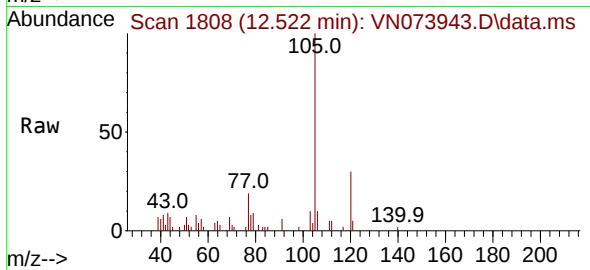
120 27.7 13.5 40.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/17/2022

Supervised By :Mahesh Dadoda 08/17/2022



#78

n-propylbenzene

Concen: 0.871 ug/l

RT: 12.863 min Scan# 1866

Delta R.T. -0.000 min

Lab File: VN073943.D

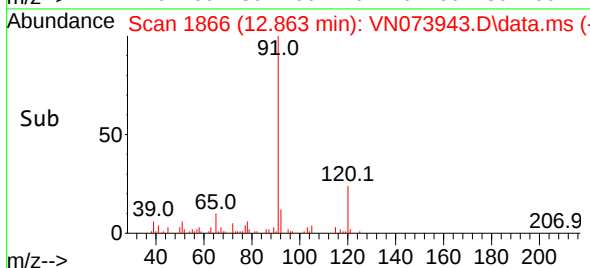
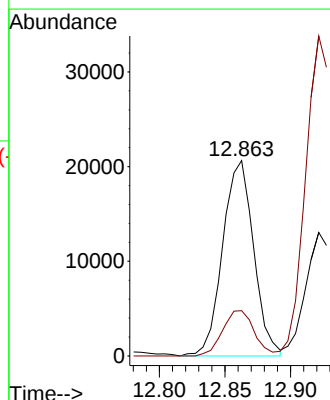
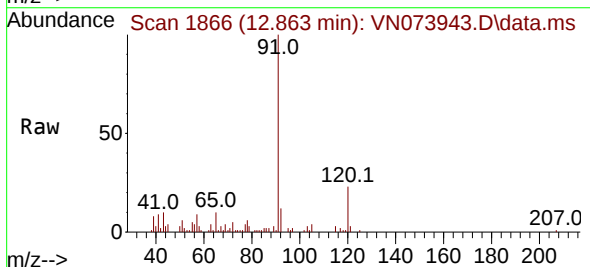
Acq: 16 Aug 2022 12:55

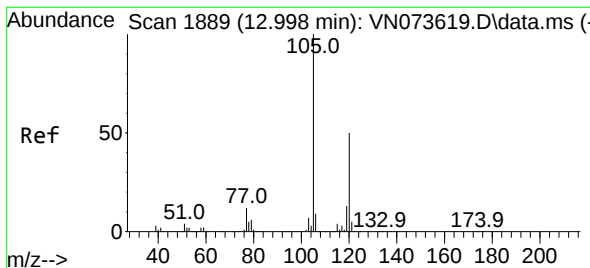
Tgt Ion: 91 Resp: 33916

Ion Ratio Lower Upper

91 100

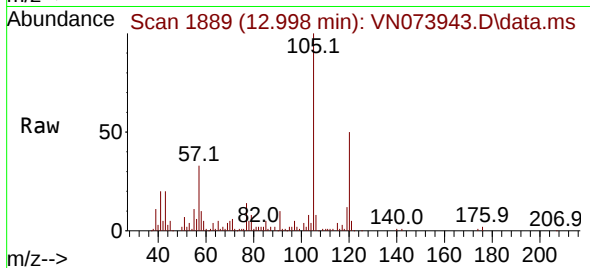
120 23.5 11.9 35.5





#80
1,3,5-Trimethylbenzene
Concen: 3.481 ug/l
RT: 12.998 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55

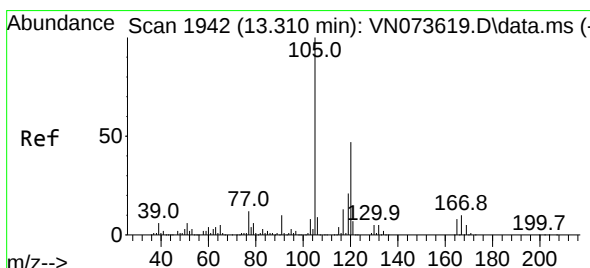
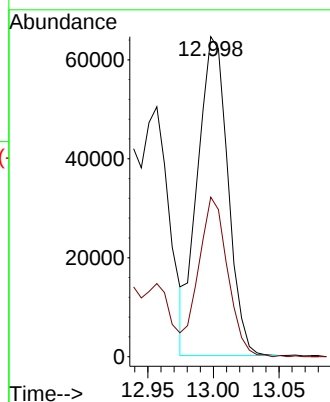
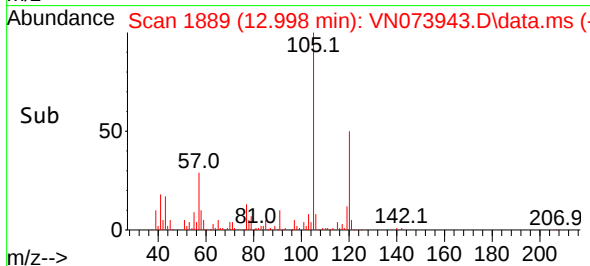
Instrument :
MSVOA_N
ClientSampleId :
GFD-TOTES



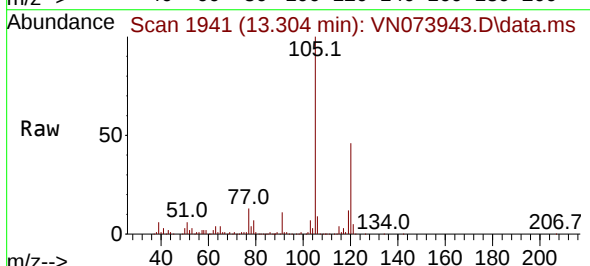
Tgt Ion:105 Resp: 10346
Ion Ratio Lower Upper
105 100
120 48.3 24.9 74.7

Manual Integrations
APPROVED

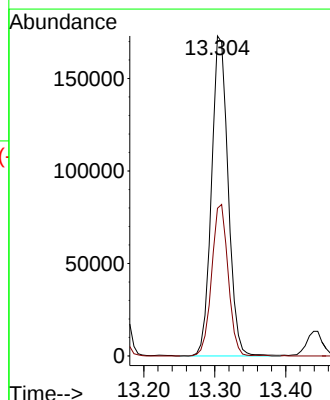
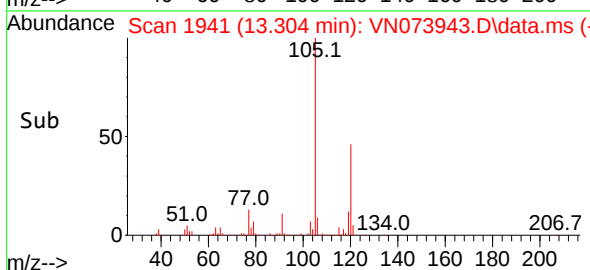
Reviewed By :John Carlone 08/17/2022
Supervised By :Mahesh Dadoda 08/17/2022

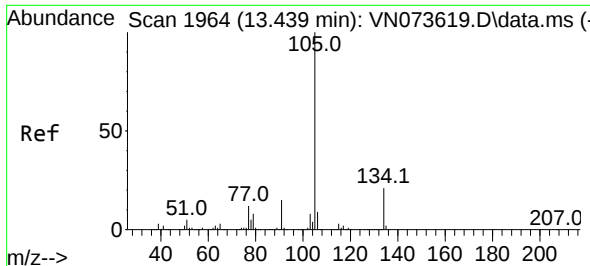


#84
1,2,4-Trimethylbenzene
Concen: 9.464 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. -0.006 min
Lab File: VN073943.D
Acq: 16 Aug 2022 12:55



Tgt Ion:105 Resp: 280945
Ion Ratio Lower Upper
105 100
120 46.8 23.3 69.8





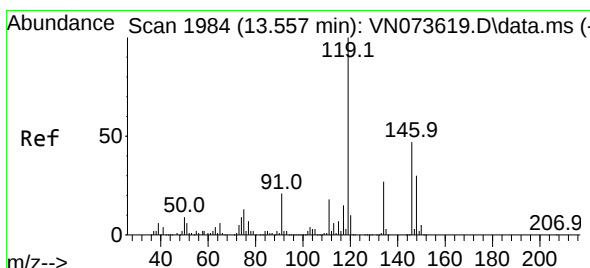
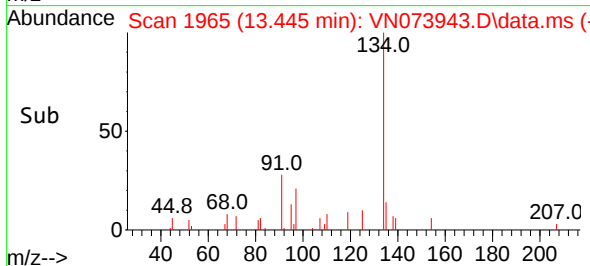
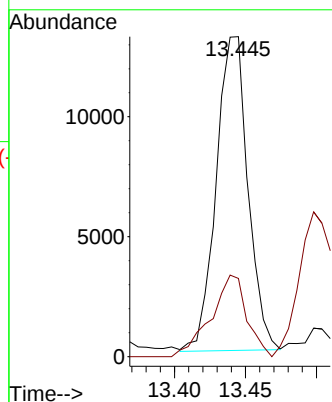
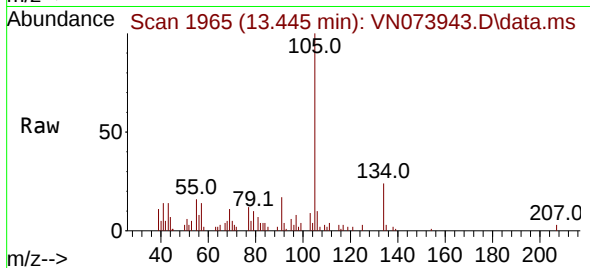
#85
 sec-Butylbenzene
 Concen: 0.574 ug/l
 RT: 13.445 min Scan# 1965
 Delta R.T. 0.006 min
 Lab File: VN073943.D
 Acq: 16 Aug 2022 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 GFD-TOTES

Tgt Ion:105 Resp: 2036
 Ion Ratio Lower Upper
 105 100
 134 29.2 10.4 31.1

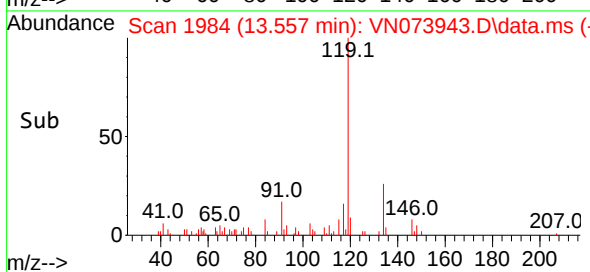
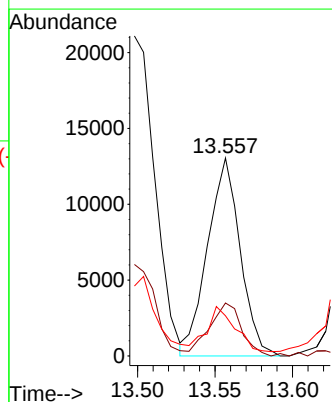
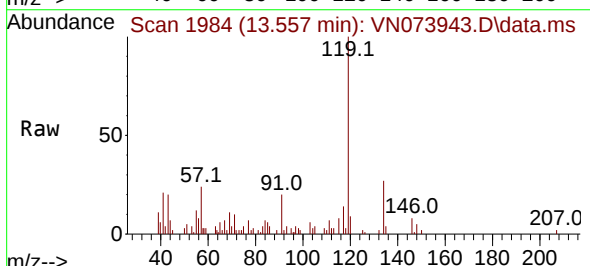
Manual Integrations
 APPROVED

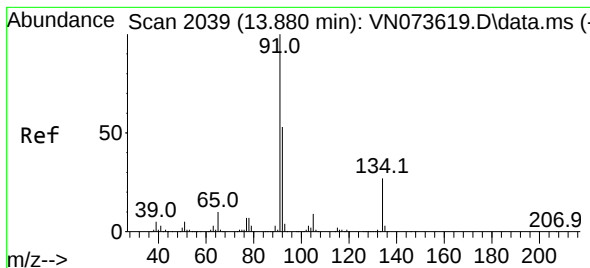
Reviewed By :John Carlone 08/17/2022
 Supervised By :Mahesh Dadoda 08/17/2022



#86
 p-Isopropyltoluene
 Concen: 0.632 ug/l
 RT: 13.557 min Scan# 1984
 Delta R.T. -0.000 min
 Lab File: VN073943.D
 Acq: 16 Aug 2022 12:55

Tgt Ion:119 Resp: 19090
 Ion Ratio Lower Upper
 119 100
 134 26.1 13.3 39.8
 91 19.4 11.3 33.9





#89

n-Butylbenzene

Concen: 0.795 ug/l

RT: 13.880 min Scan# 2039

Delta R.T. 0.000 min

Lab File: VN073943.D

Acq: 16 Aug 2022 12:55

Instrument :

MSVOA_N

ClientSampleId :

GFD-TOTES

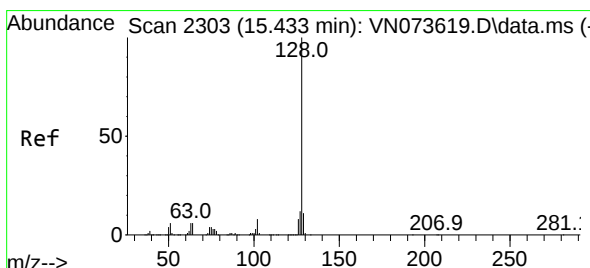
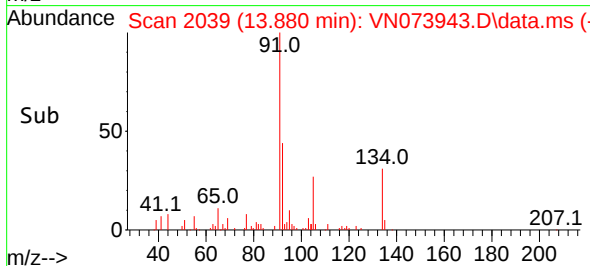
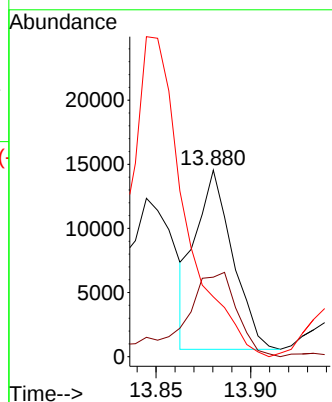
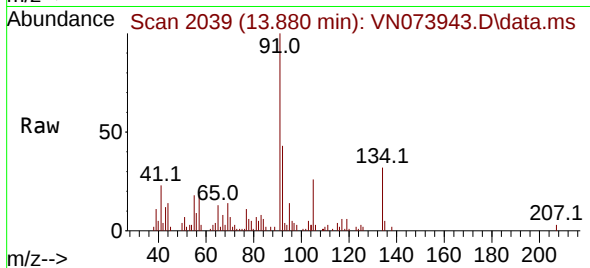
Tgt Ion:	91	Resp:	19010
Ion Ratio	Lower	Upper	
91	100		
92	65.6	26.9	80.7
134	0.0	13.6	40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/17/2022

Supervised By :Mahesh Dadoda 08/17/2022



#95

Naphthalene

Concen: 6.994 ug/l

RT: 15.433 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN073943.D

Acq: 16 Aug 2022 12:55

Tgt Ion:	128	Resp:	245852
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.3	15.5
129	11.7	8.6	13.0

