

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071922\
 Data File : VN073517.D
 Acq On : 19 Jul 2022 15:39
 Operator : JC\MD
 Sample : N3765-08 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPC-04-84

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/20/2022
 Supervised By : Mahesh Dadoda 07/20/2022

Quant Time: Jul 20 06:25:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.016	168	249756	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	425343	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.692	117	405810	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.616	152	216552	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	167445	46.442	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.880%
35) Dibromofluoromethane	7.951	113	142419	50.327	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.660%
50) Toluene-d8	10.386	98	479358	47.694	ug/l	0.01
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.380%
62) 4-Bromofluorobenzene	12.674	95	204683	52.993	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	105.980%
Target Compounds						
					Qvalue	
3) Chloromethane	2.269	50	903	0.255	ug/l	96
27) cis-1,2-Dichloroethene	7.245	96	1741	0.468	ug/l	74
30) Chloroform	7.745	83	400607	66.501	ug/l	96
32) 1,1,1-Trichloroethane	7.939	97	421540	78.522	ug/l	100
38) Carbon Tetrachloride	8.134	117	99315	22.056	ug/l	98
39) Methylcyclohexane	9.404	83	2028	0.374	ug/l	94
44) Trichloroethene	9.151	130	312228	91.302	ug/l	82
45) 1,2-Dichloropropane	9.422	63	2826	0.825	ug/l #	82
47) Bromodichloromethane	9.692	83	1264	0.281	ug/l #	61
52) Toluene	10.451	92	17846	2.149	ug/l	95
64) Tetrachloroethene	10.927	164	66121602m	19953.792	ug/l	
65) Chlorobenzene	11.722	112	2611	0.284	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.786	131	17920	5.308	ug/l	97
67) Ethyl Benzene	11.792	91	8109	0.487	ug/l	90
68) m/p-Xylenes	11.892	106	5355	0.852	ug/l	97
69) o-Xylene	12.222	106	56952	8.872	ug/l	94
73) Isopropylbenzene	12.522	105	11507	0.615	ug/l	97
78) n-propylbenzene	12.863	91	28970	1.395	ug/l	94
80) 1,3,5-Trimethylbenzene	13.004	105	18178	1.193	ug/l	100
84) 1,2,4-Trimethylbenzene	13.310	105	103461	6.799	ug/l	98
90) Hexachloroethane	14.151	117	475464	172.122	ug/l	82
93) 1,2,4-Trichlorobenzene	15.198	180	6618	1.600	ug/l #	90

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

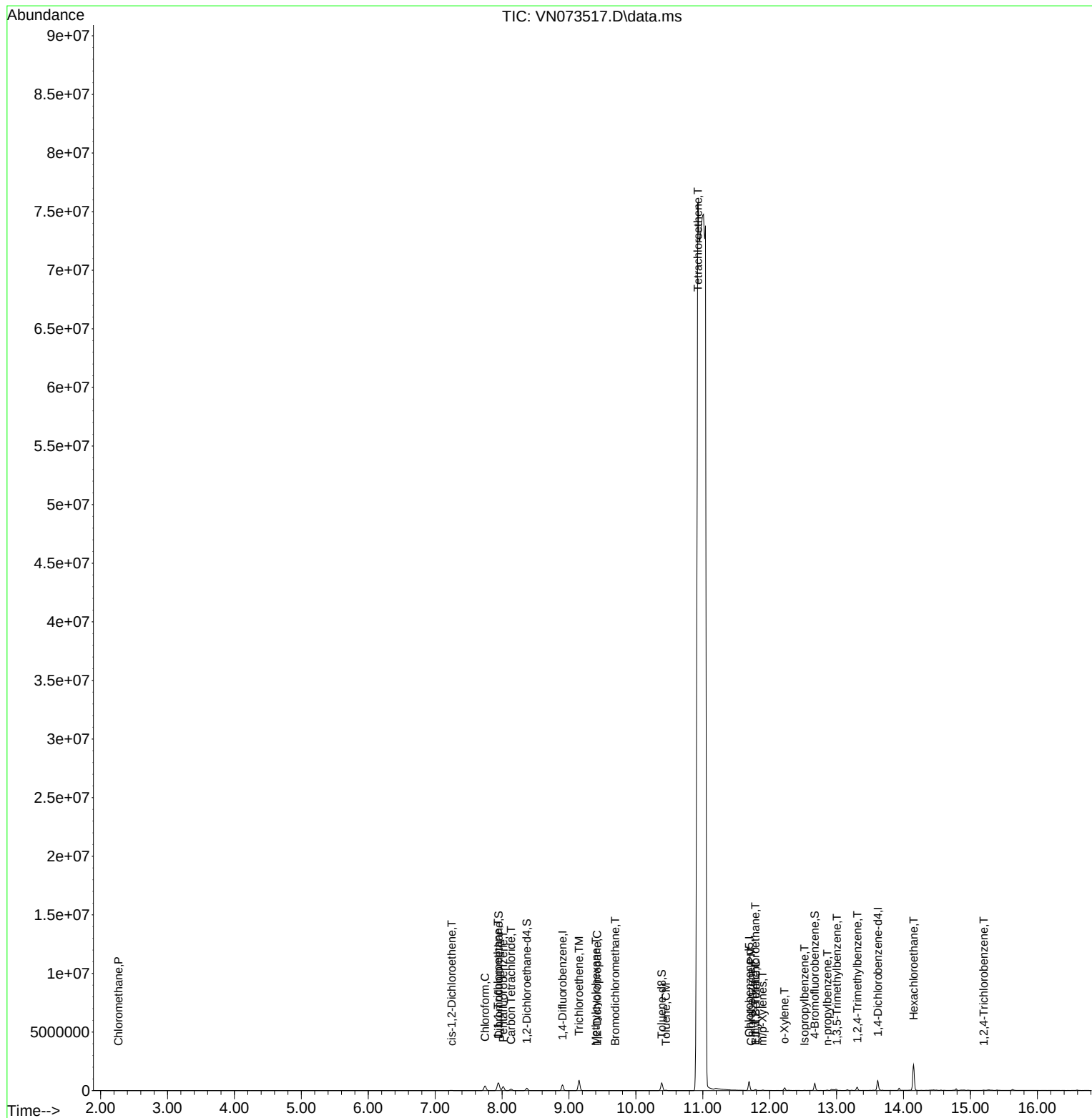
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071922\
Data File : VN073517.D
Acq On : 19 Jul 2022 15:39
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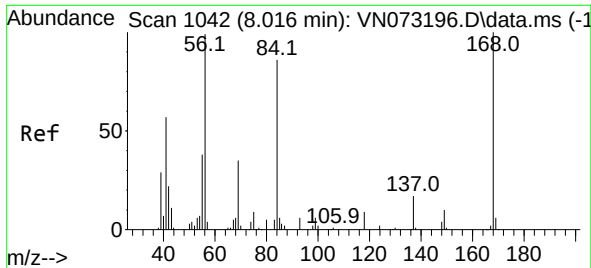
Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84

Quant Time: Jul 20 06:25:11 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 29 01:54:03 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

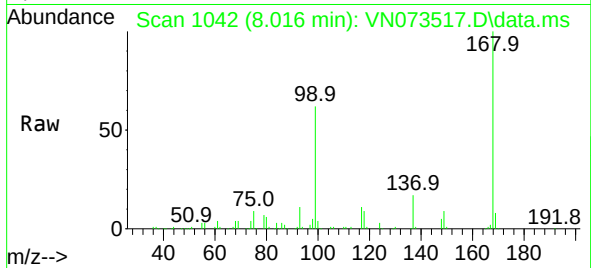
Reviewed By : John Carlone 07/20/2022
Supervised By : Mahesh Dadoda 07/20/2022





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

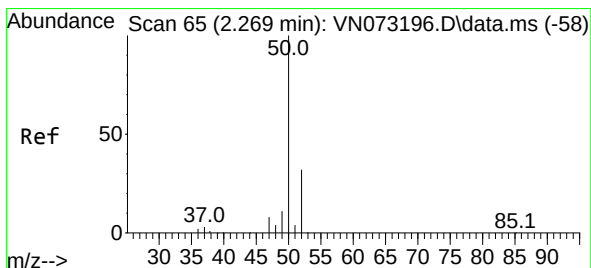
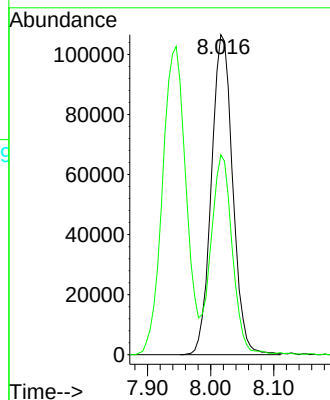
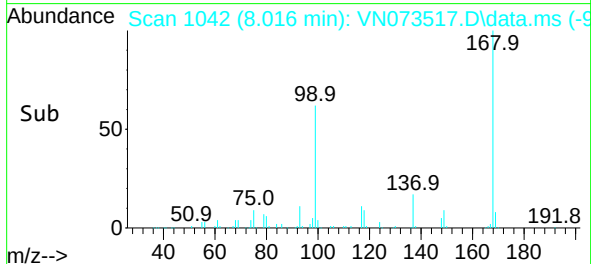
Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84



Tgt Ion:168 Resp: 249750
Ion Ratio Lower Upper
168 100
99 61.7 42.3 63.5

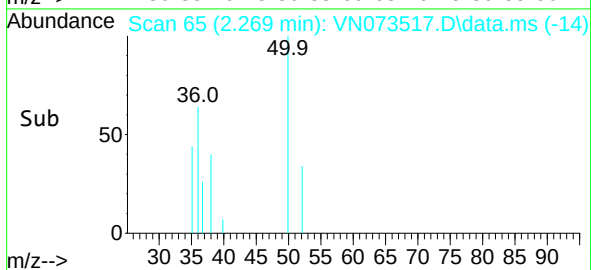
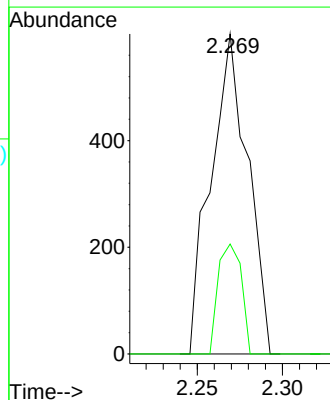
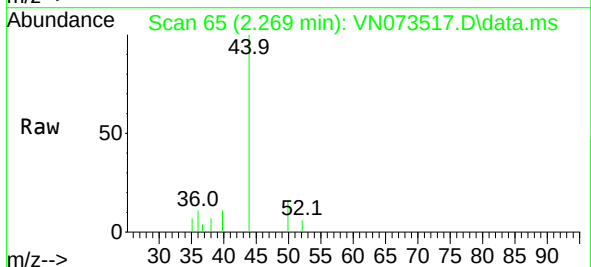
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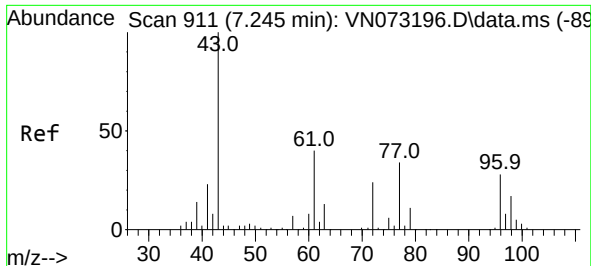
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#3
Chloromethane
Concen: 0.255 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

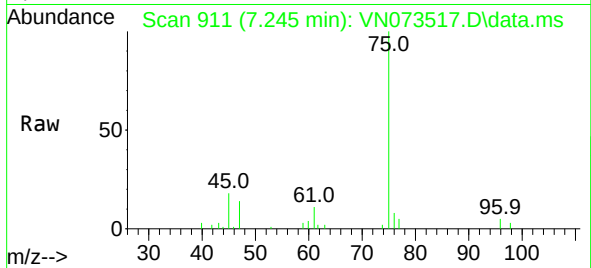
Tgt Ion: 50 Resp: 903
Ion Ratio Lower Upper
50 100
52 34.3 25.7 38.5





#27
 cis-1,2-Dichloroethene
 Concen: 0.468 ug/l
 RT: 7.245 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: VN073517.D
 Acq: 19 Jul 2022 15:39

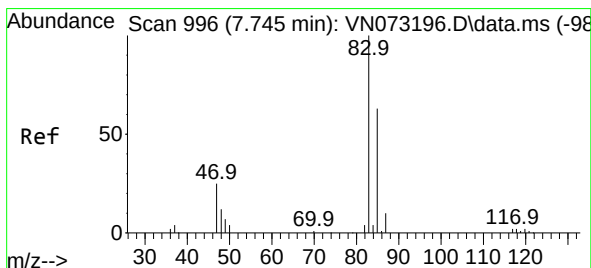
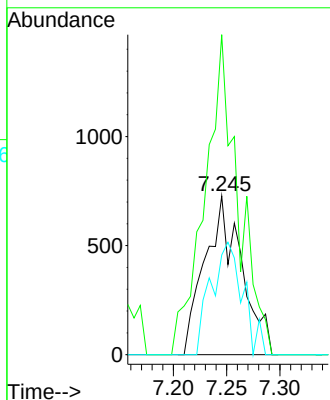
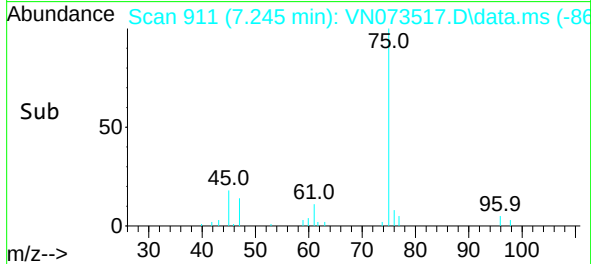
Instrument :
 MSVOA_N
 ClientSampleId :
 SPC-04-84



Tgt Ion: 96 Resp: 174
 Ion Ratio Lower Upper
 96 100
 61 184.4 0.0 280.6
 98 61.2 0.0 128.4

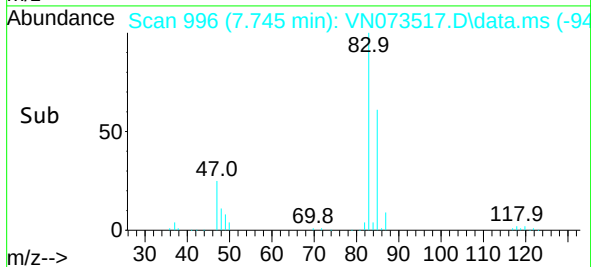
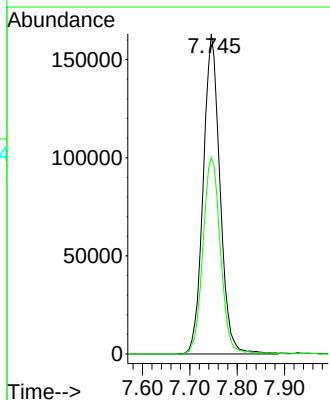
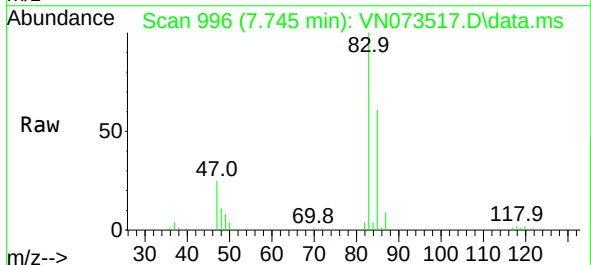
Manual Integrations
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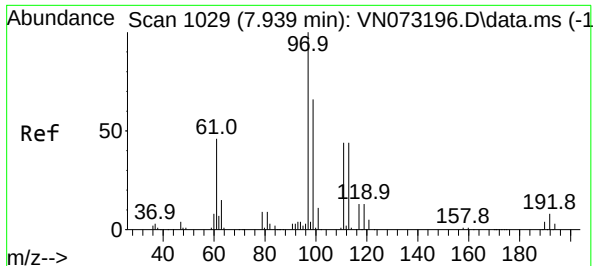
Reviewed By :John Carlone 07/20/2022
 Supervised By :Mahesh Dadoda 07/20/2022



#30
 Chloroform
 Concen: 66.501 ug/l
 RT: 7.745 min Scan# 996
 Delta R.T. 0.000 min
 Lab File: VN073517.D
 Acq: 19 Jul 2022 15:39

Tgt Ion: 83 Resp: 400607
 Ion Ratio Lower Upper
 83 100
 85 61.4 51.8 77.8





#32

1,1,1-Trichloroethane

Concen: 78.522 ug/l

RT: 7.939 min Scan# 1029

Delta R.T. 0.000 min

Lab File: VN073517.D

Acq: 19 Jul 2022 15:39

Instrument :

MSVOA_N

ClientSampleId :

SPC-04-84

Tgt Ion: 97 Resp: 421540

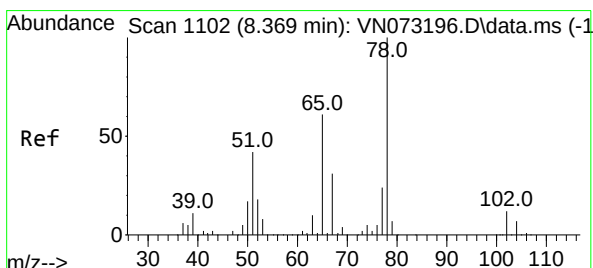
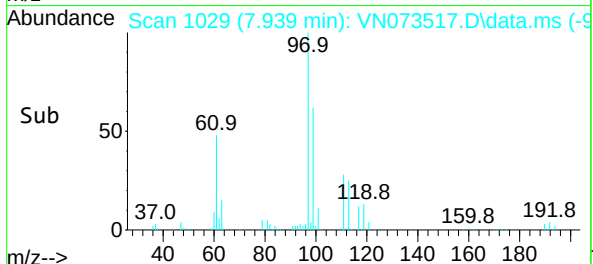
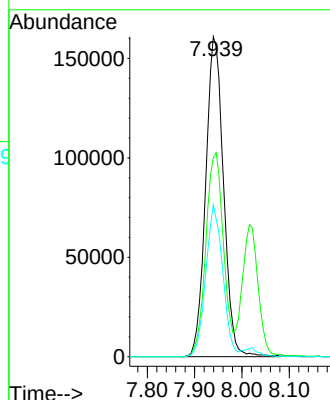
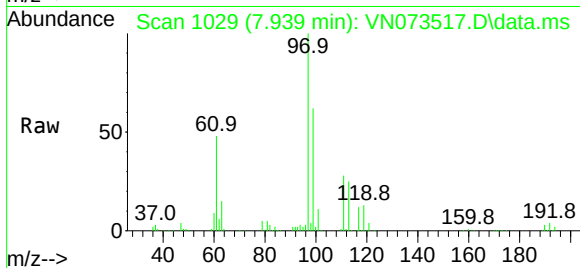
Ion	Ratio	Lower	Upper
97	100		
99	62.8	50.6	76.0
61	45.0	36.0	54.0

Manual Integrations

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Reviewed By :John Carlone 07/20/2022

Supervised By :Mahesh Dadoda 07/20/2022



#33

1,2-Dichloroethane-d4

Concen: 46.442 ug/l

RT: 8.369 min Scan# 1102

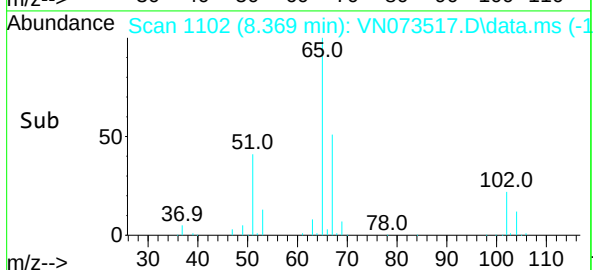
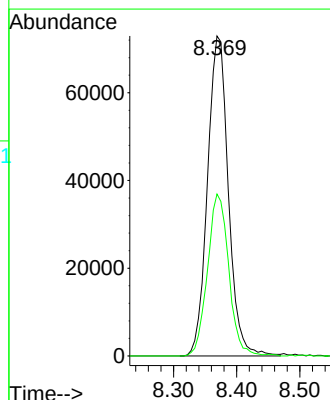
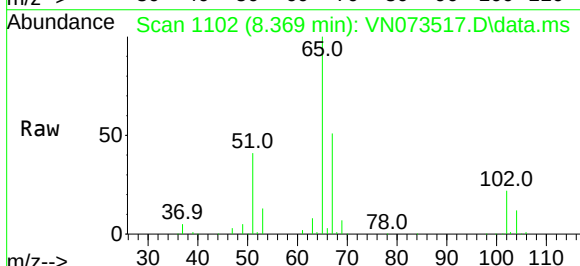
Delta R.T. -0.000 min

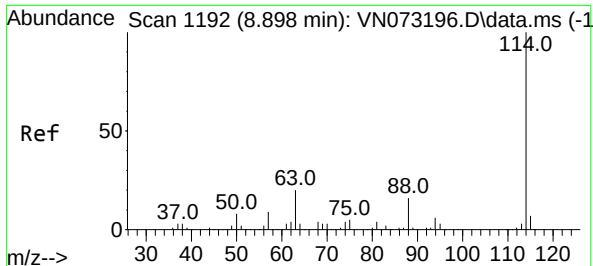
Lab File: VN073517.D

Acq: 19 Jul 2022 15:39

Tgt Ion: 65 Resp: 167445

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VN073517.D

Acq: 19 Jul 2022 15:39

Instrument :

MSVOA_N

ClientSampleId :

SPC-04-84

Tgt Ion:114 Resp: 42534

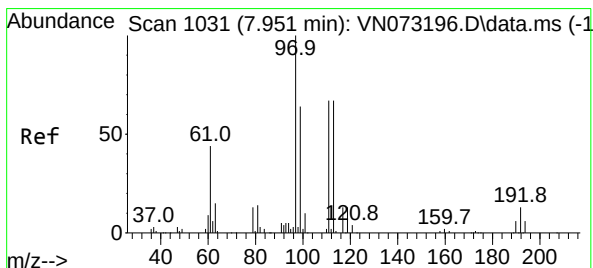
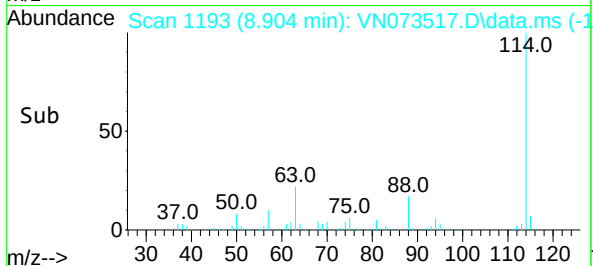
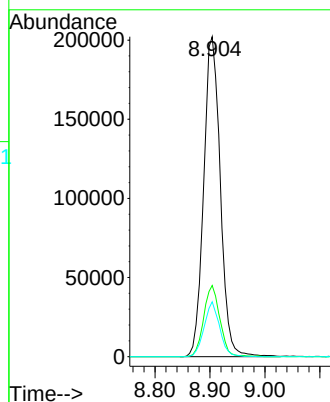
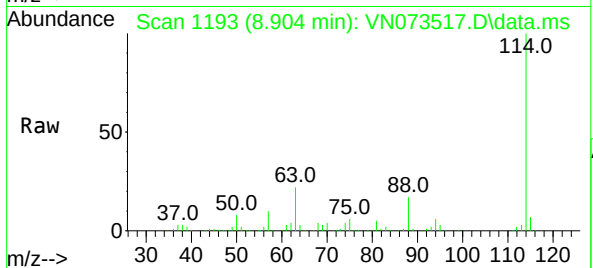
Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	40.0
88	17.2	0.0	32.6

Manual Integrations

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Reviewed By :John Carlone 07/20/2022

Supervised By :Mahesh Dadoda 07/20/2022



#35

Dibromofluoromethane

Concen: 50.327 ug/l

RT: 7.951 min Scan# 1031

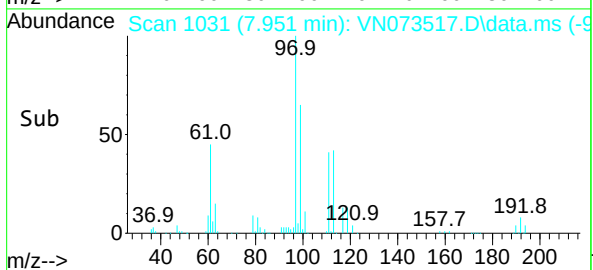
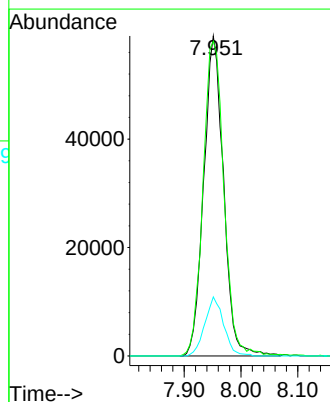
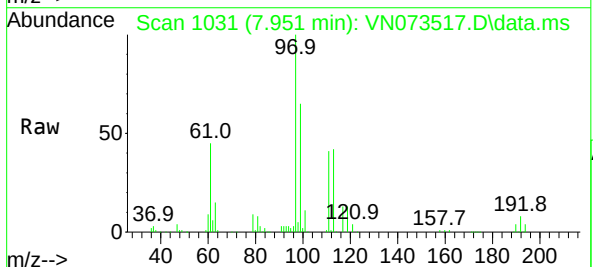
Delta R.T. 0.000 min

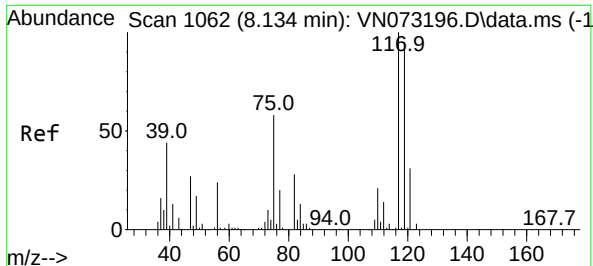
Lab File: VN073517.D

Acq: 19 Jul 2022 15:39

Tgt Ion:113 Resp: 142419

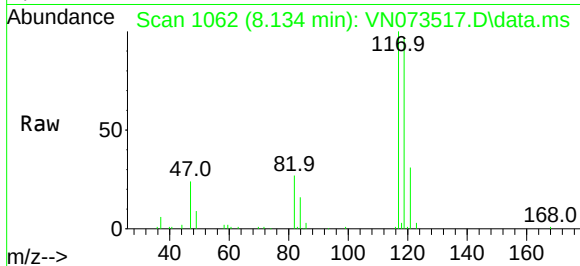
Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.4	122.0
192	17.6	17.0	25.6





#38
Carbon Tetrachloride
Concen: 22.056 ug/l
RT: 8.134 min Scan# 1062
Delta R.T. -0.000 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

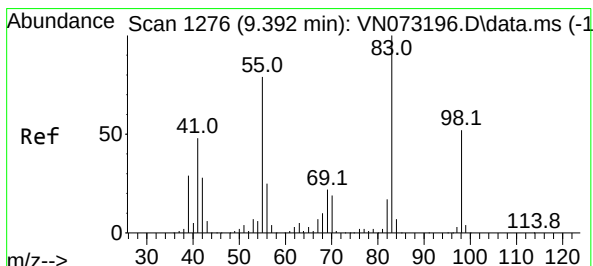
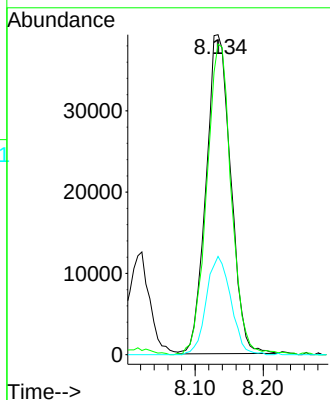
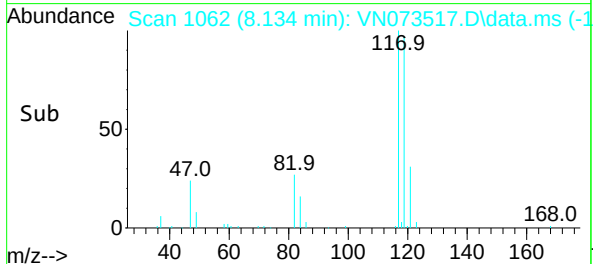
Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84



Tgt Ion: 117 Resp: 9931
Ion Ratio Lower Upper
117 100
119 97.1 75.8 113.8
121 30.8 24.6 37.0

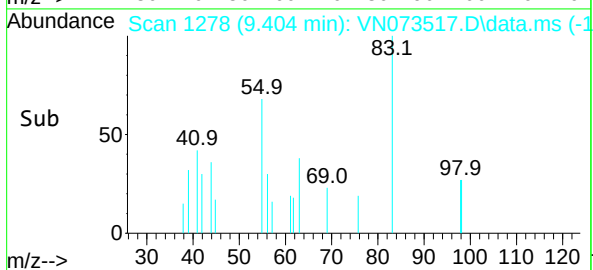
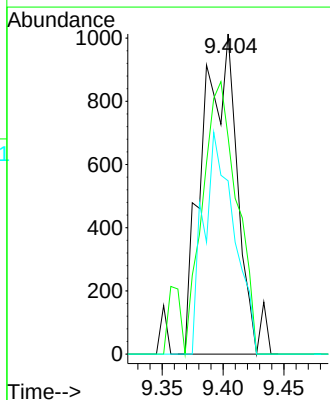
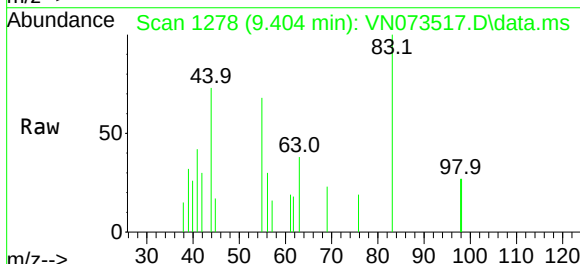
Manual Integrations
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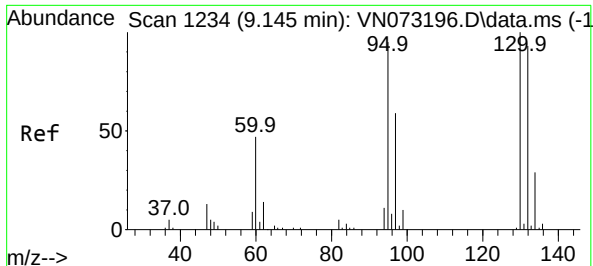
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#39
Methylcyclohexane
Concen: 0.374 ug/l
RT: 9.404 min Scan# 1278
Delta R.T. 0.012 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

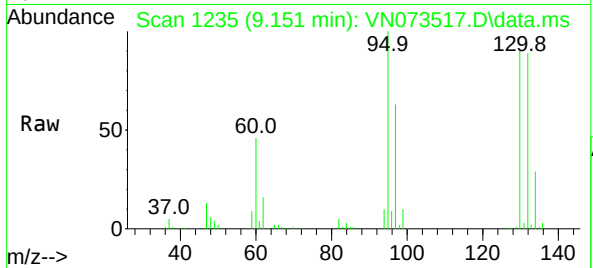
Tgt Ion: 83 Resp: 2028
Ion Ratio Lower Upper
83 100
55 67.7 57.8 86.8
98 54.1 39.4 59.2





#44
Trichloroethene
Concen: 91.302 ug/l
RT: 9.151 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

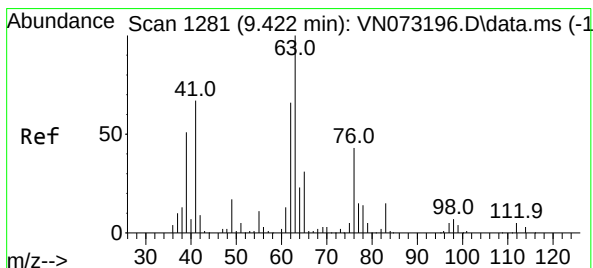
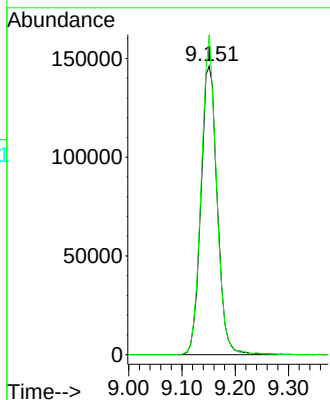
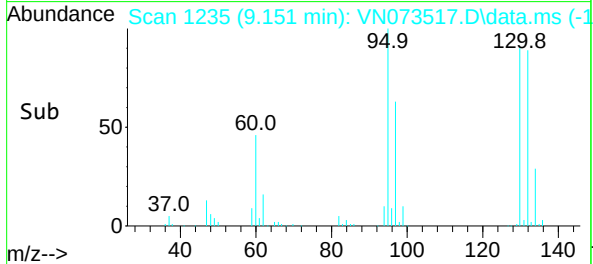
Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84



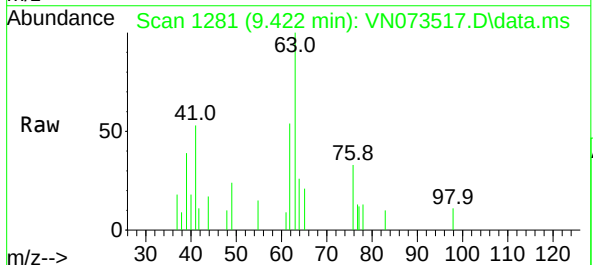
Tgt Ion:130 Resp: 312228
Ion Ratio Lower Upper
130 100
95 110.9 0.0 186.8

Manual Integrations
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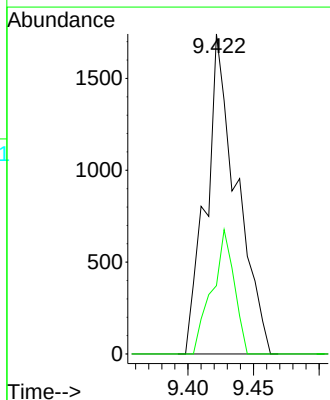
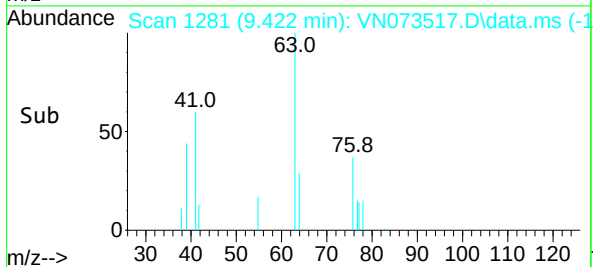
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022

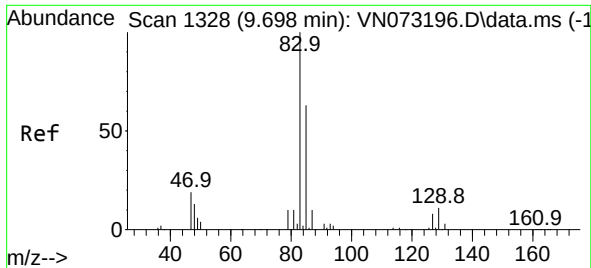


#45
1,2-Dichloropropane
Concen: 0.825 ug/l
RT: 9.422 min Scan# 1281
Delta R.T. -0.000 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39



Tgt Ion: 63 Resp: 2826
Ion Ratio Lower Upper
63 100
65 21.4 24.9 37.3#





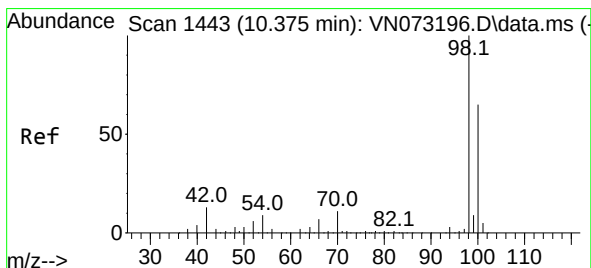
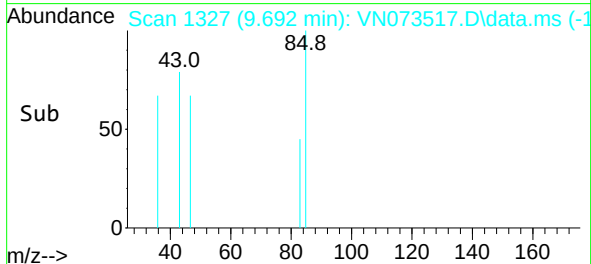
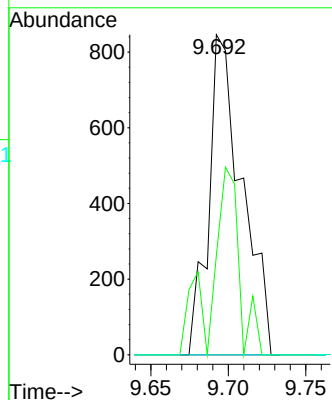
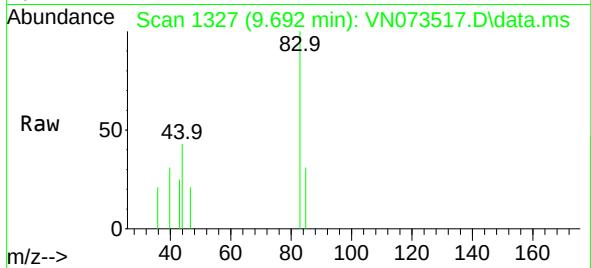
#47
Bromodichloromethane
Concen: 0.281 ug/l
RT: 9.692 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84

Tgt Ion: 83 Resp: 1264
Ion Ratio Lower Upper
83 100
85 31.1 50.5 75.7
127 0.0 6.8 10.2

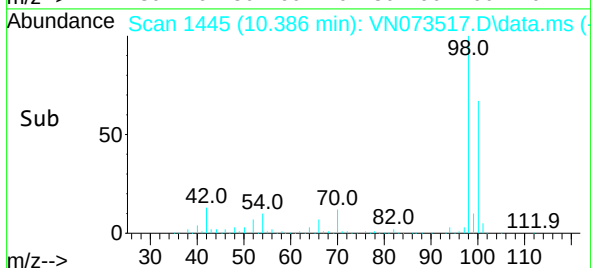
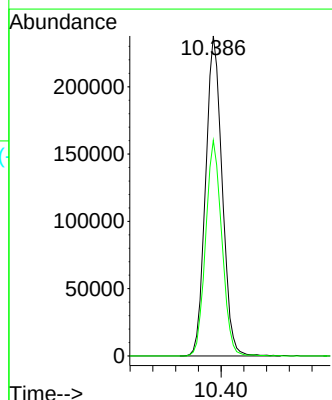
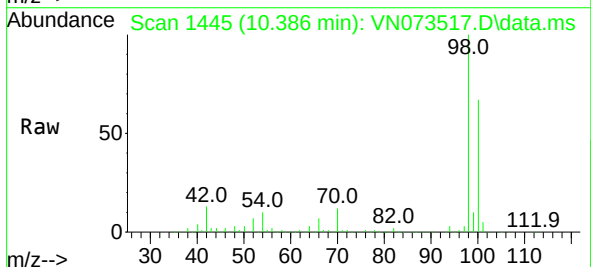
Manual Integrations
APPROVED

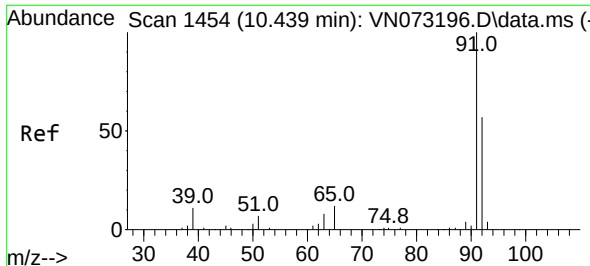
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#50
Toluene-d8
Concen: 47.694 ug/l
RT: 10.386 min Scan# 1445
Delta R.T. 0.011 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Tgt Ion: 98 Resp: 479358
Ion Ratio Lower Upper
98 100
100 66.1 52.6 78.8





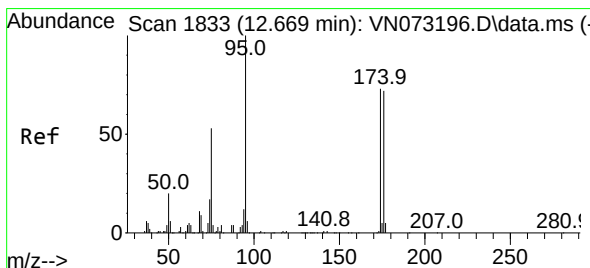
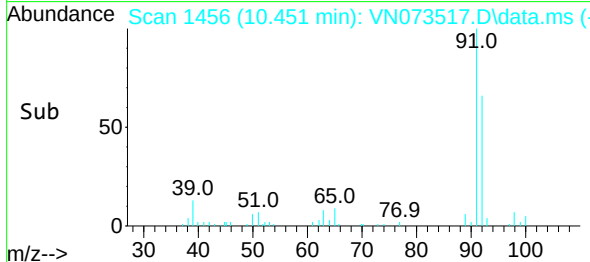
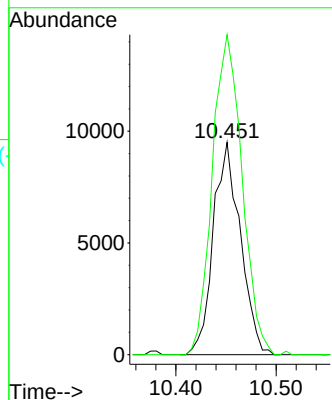
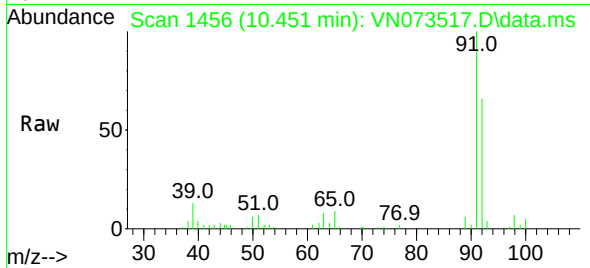
#52
Toluene
Concen: 2.149 ug/l
RT: 10.451 min Scan# 1454
Delta R.T. 0.012 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84

Tgt Ion: 92 Resp: 17840
Ion Ratio Lower Upper
92 100
91 165.8 138.6 207.8

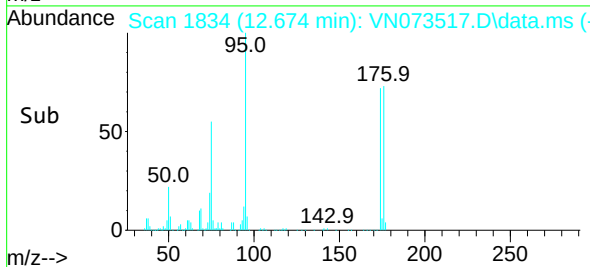
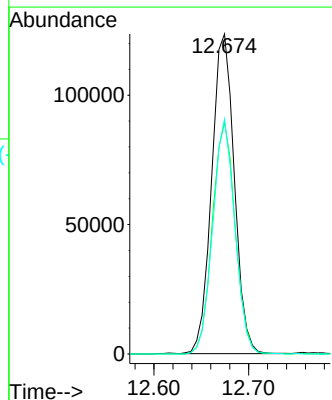
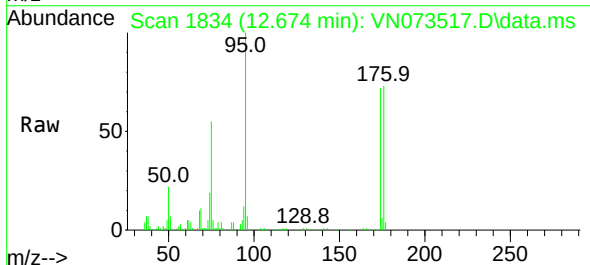
Manual Integrations
APPROVED

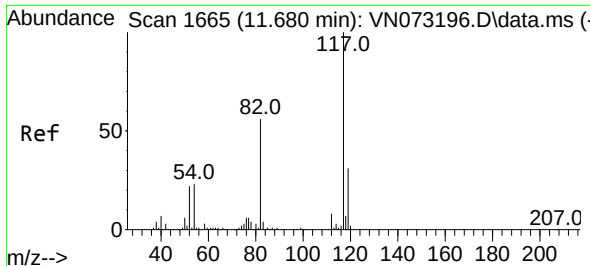
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#62
4-Bromofluorobenzene
Concen: 52.993 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.005 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

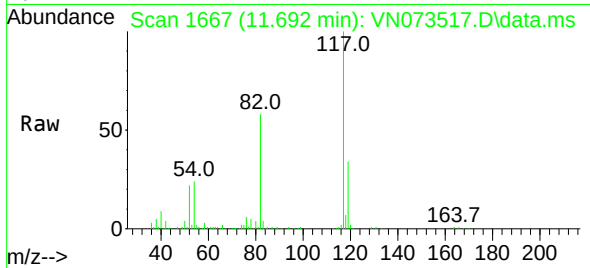
Tgt Ion: 95 Resp: 204683
Ion Ratio Lower Upper
95 100
174 72.9 0.0 167.6
176 71.8 0.0 163.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.692 min Scan# 1166
Delta R.T. 0.012 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

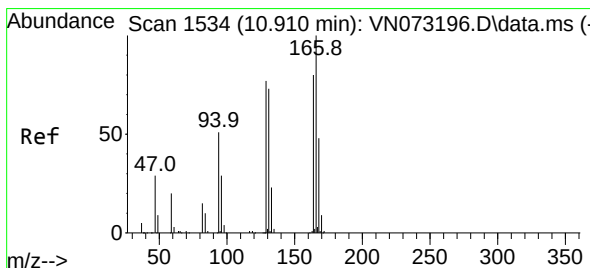
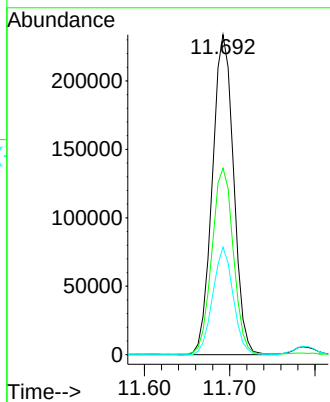
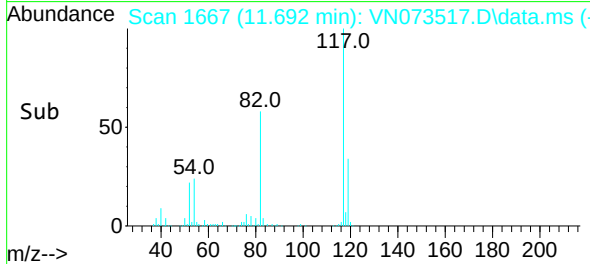
Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84



Tgt Ion:117 Resp: 405810
Ion Ratio Lower Upper
117 100
82 58.0 44.2 66.2
119 33.6 25.4 38.0

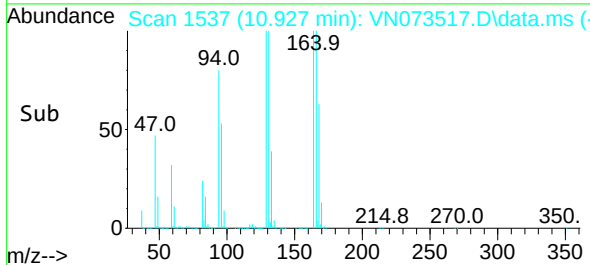
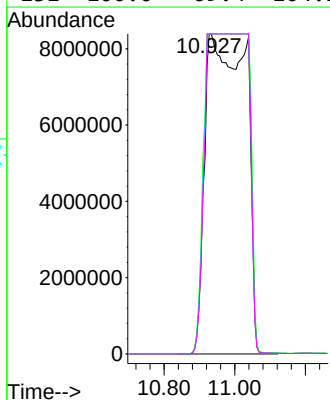
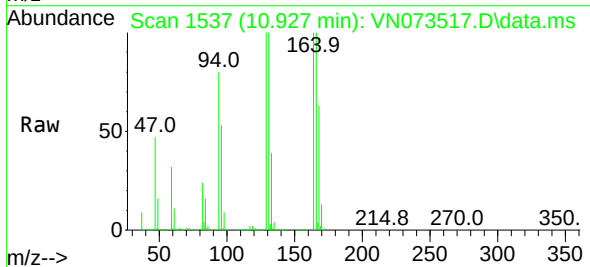
Manual Integrations
APPROVED

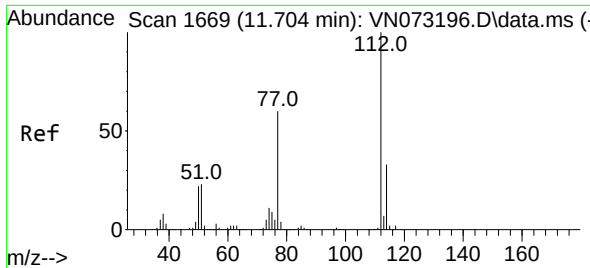
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#64
Tetrachloroethene
Concen: 19953.792 ug/l m
RT: 10.927 min Scan# 1537
Delta R.T. 0.017 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Tgt Ion:164 Resp:66121602
Ion Ratio Lower Upper
164 100
166 100.0 104.2 156.2#
129 100.0 73.9 110.9
131 100.0 69.4 104.2





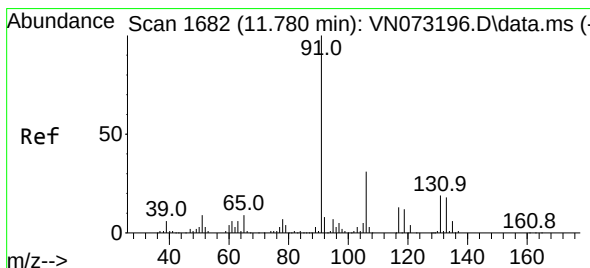
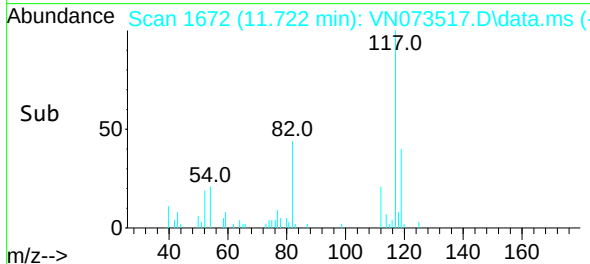
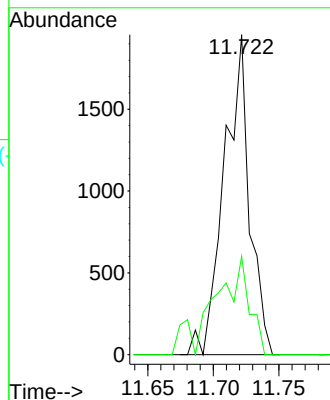
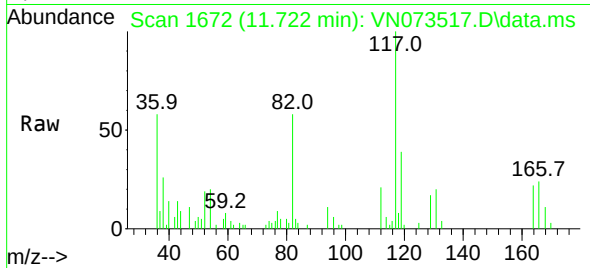
#65
Chlorobenzene
Concen: 0.284 ug/l
RT: 11.722 min Scan# 1672
Delta R.T. 0.018 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84

Tgt Ion:112 Resp: 261
Ion Ratio Lower Upper
112 100
114 30.7 25.4 38.2

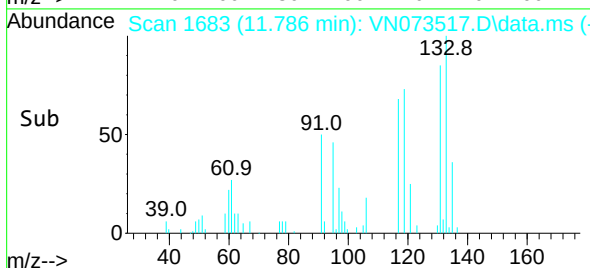
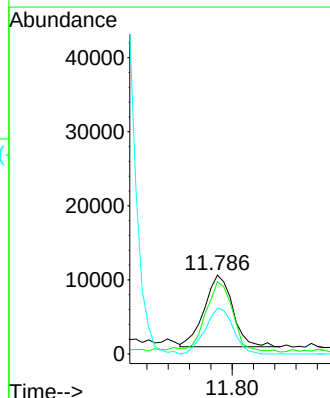
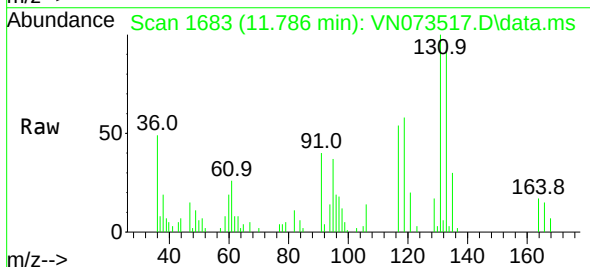
Manual Integrations
APPROVED

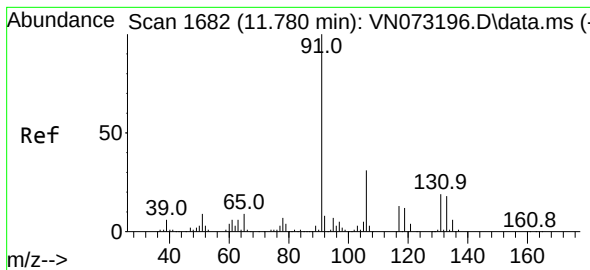
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#66
1,1,1,2-Tetrachloroethane
Concen: 5.308 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Tgt Ion:131 Resp: 17920
Ion Ratio Lower Upper
131 100
133 98.2 47.8 143.4
119 63.2 33.4 100.2





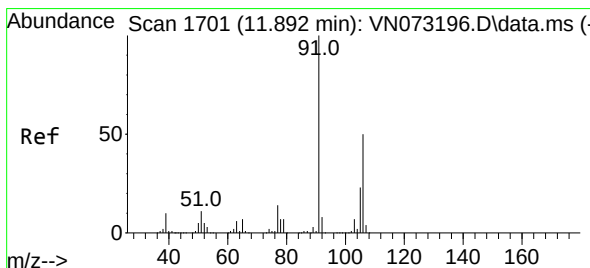
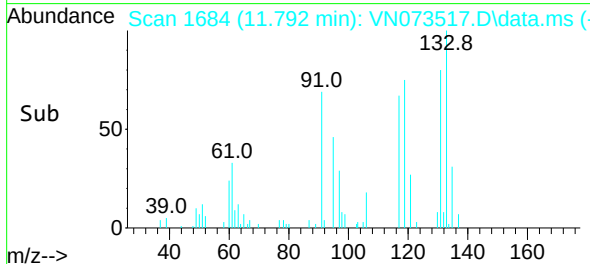
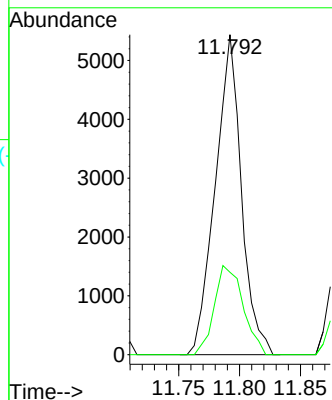
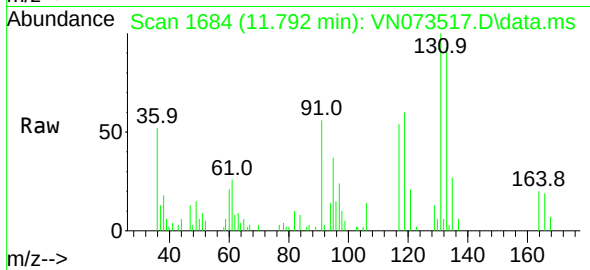
#67
Ethyl Benzene
Concen: 0.487 ug/l
RT: 11.792 min Scan# 1684
Delta R.T. 0.012 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84

Tgt Ion: 91 Resp: 8109
Ion Ratio Lower Upper
91 100
106 25.8 24.9 37.3

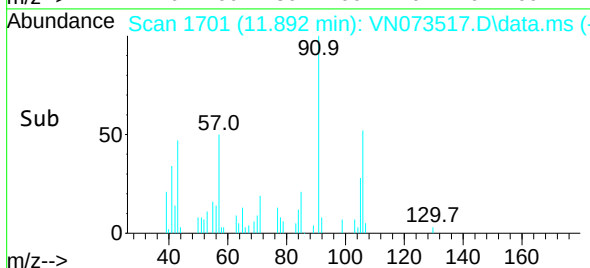
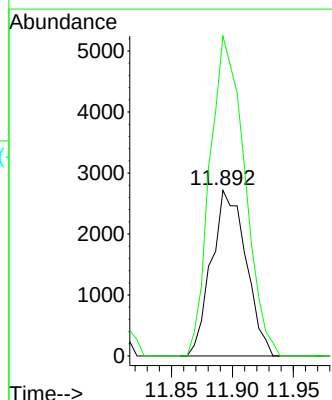
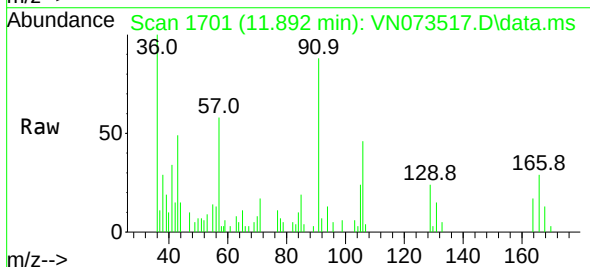
Manual Integrations
APPROVED

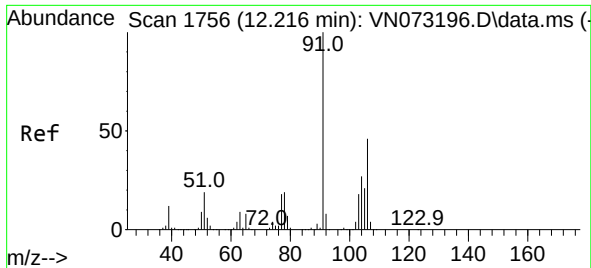
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#68
m/p-Xylenes
Concen: 0.852 ug/l
RT: 11.892 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Tgt Ion:106 Resp: 5355
Ion Ratio Lower Upper
106 100
91 194.5 158.9 238.3





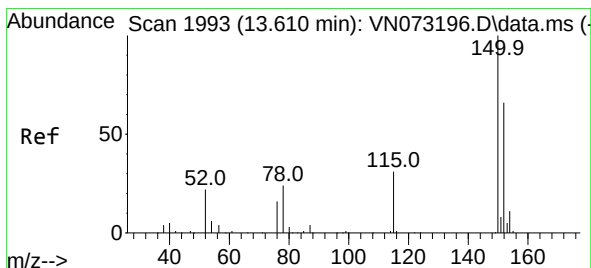
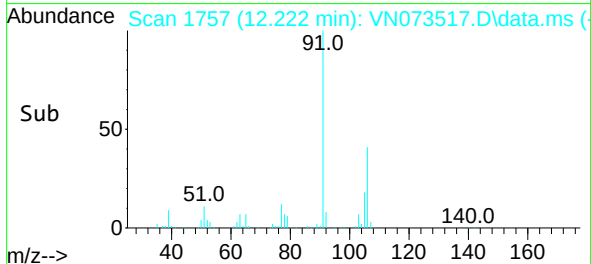
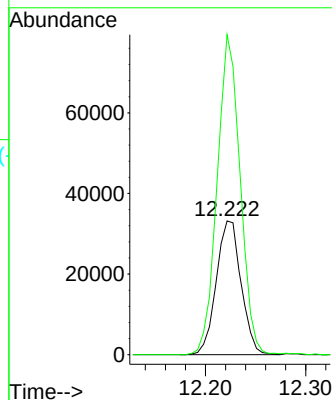
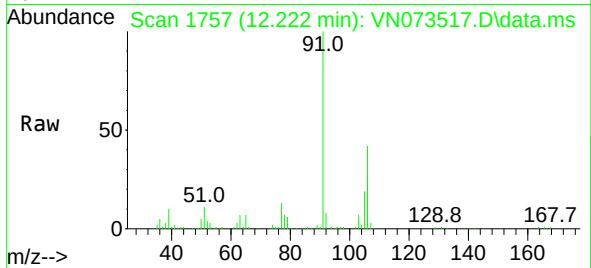
#69
o-Xylene
Concen: 8.872 ug/l
RT: 12.222 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84

Tgt Ion:106 Resp: 56952
Ion Ratio Lower Upper
106 100
91 222.2 106.0 318.0

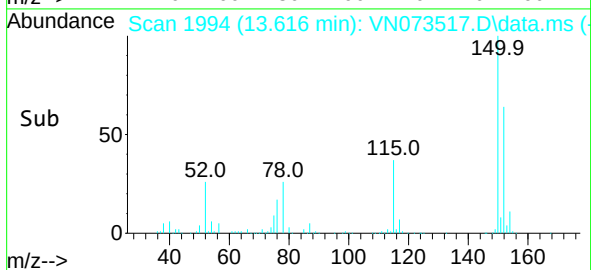
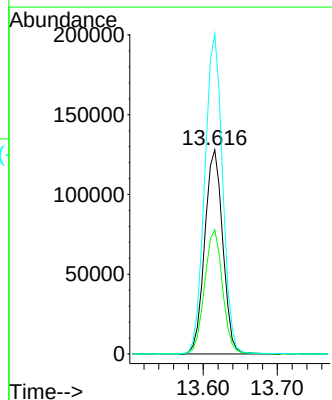
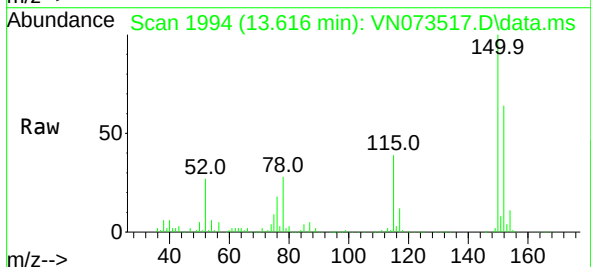
Manual Integrations
APPROVED

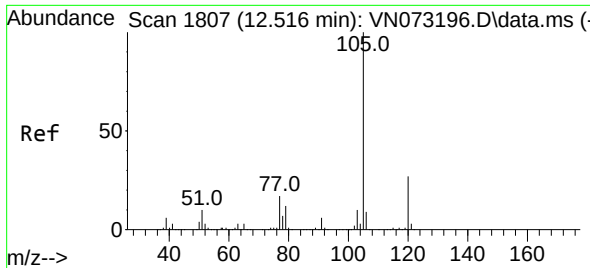
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

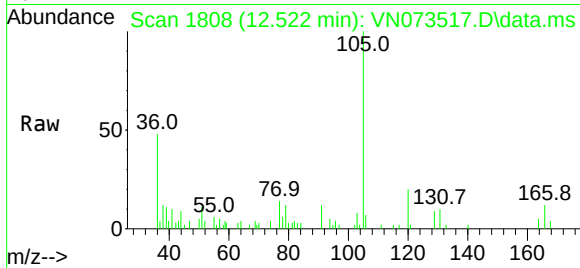
Tgt Ion:152 Resp: 216552
Ion Ratio Lower Upper
152 100
115 60.8 28.9 86.7
150 155.1 0.0 356.2





#73
Isopropylbenzene
Concen: 0.615 ug/l
RT: 12.522 min Scan# 1150
Delta R.T. 0.005 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

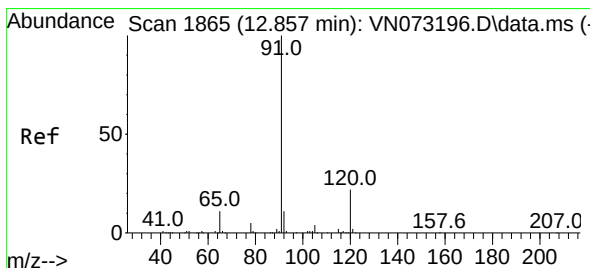
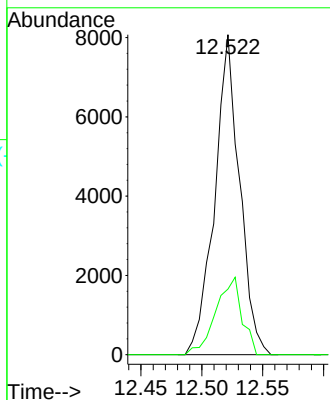
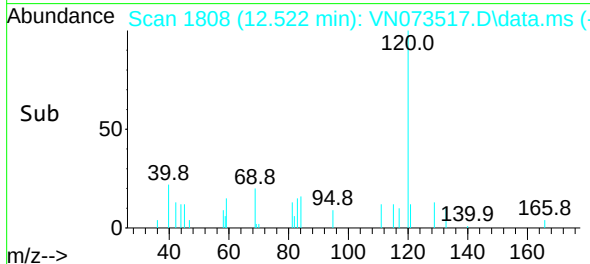
Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84



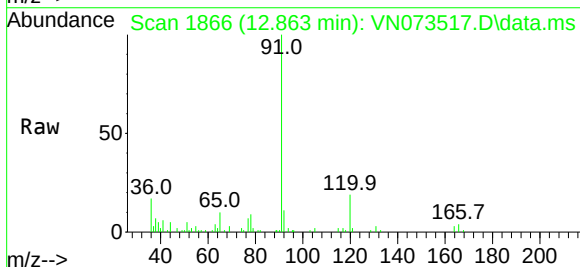
Tgt Ion:105 Resp: 1150
Ion Ratio Lower Upper
105 100
120 25.2 13.5 40.4

Manual Integrations
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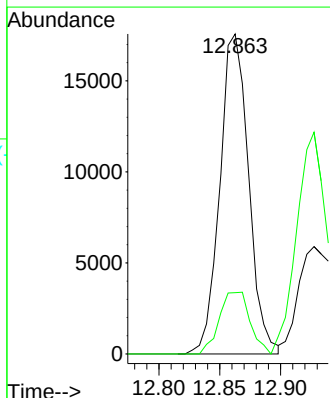
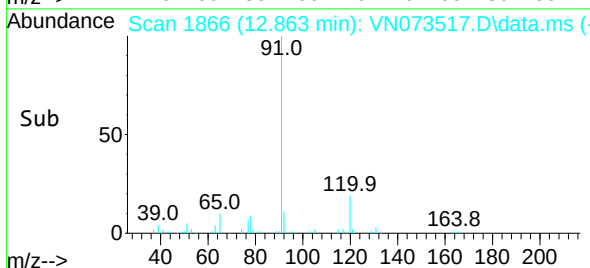
Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022

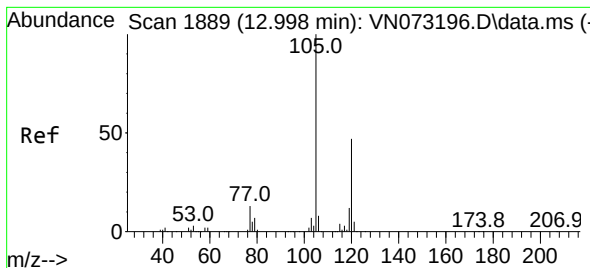


#78
n-propylbenzene
Concen: 1.395 ug/l
RT: 12.863 min Scan# 1866
Delta R.T. 0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39



Tgt Ion: 91 Resp: 28970
Ion Ratio Lower Upper
91 100
120 20.6 11.9 35.5





#80

1,3,5-Trimethylbenzene

Concen: 1.193 ug/l

RT: 13.004 min Scan# 1889

Delta R.T. 0.006 min

Lab File: VN073517.D

Acq: 19 Jul 2022 15:39

Instrument :

MSVOA_N

ClientSampleId :

SPC-04-84

Tgt Ion:105 Resp: 18178

Ion Ratio Lower Upper

105 100

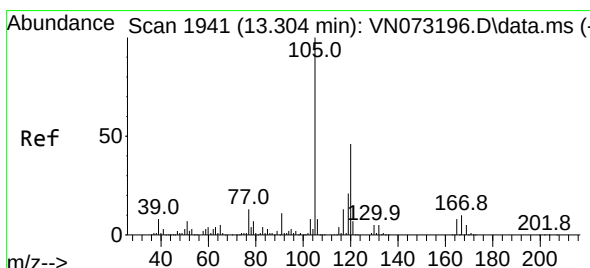
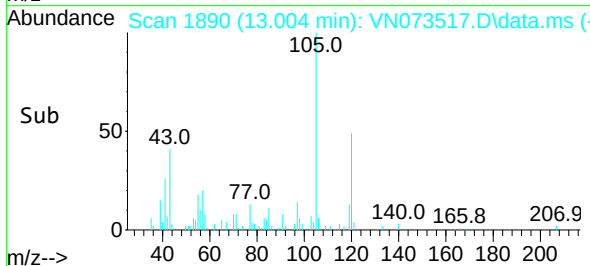
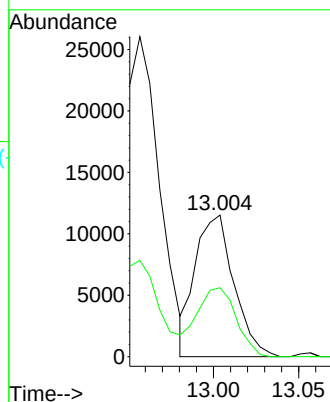
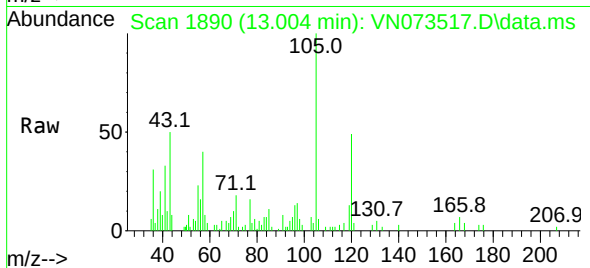
120 49.7 24.9 74.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/20/2022

Supervised By :Mahesh Dadoda 07/20/2022



#84

1,2,4-Trimethylbenzene

Concen: 6.799 ug/l

RT: 13.310 min Scan# 1942

Delta R.T. 0.006 min

Lab File: VN073517.D

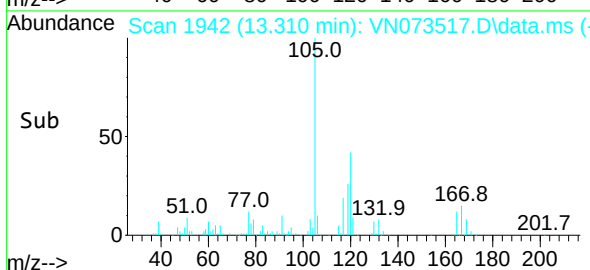
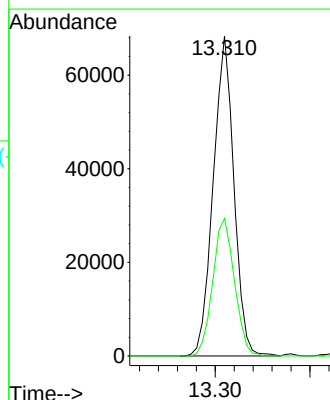
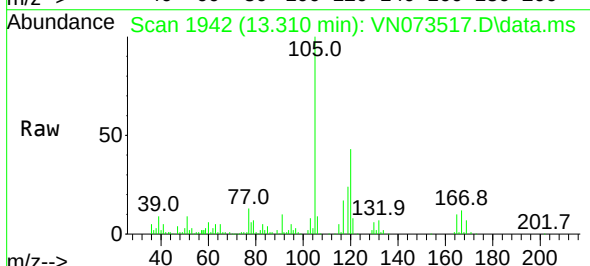
Acq: 19 Jul 2022 15:39

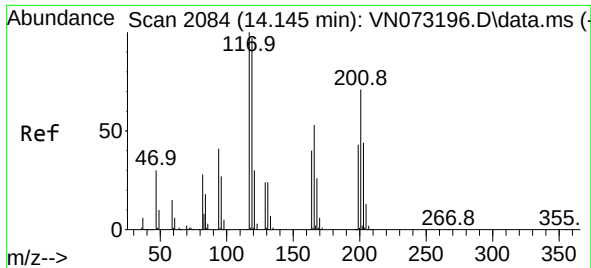
Tgt Ion:105 Resp: 103461

Ion Ratio Lower Upper

105 100

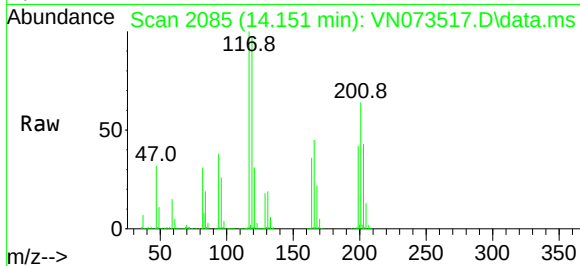
120 45.1 23.3 69.8





#90
Hexachloroethane
Concen: 172.122 ug/l
RT: 14.151 min Scan# 2085
Delta R.T. 0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39

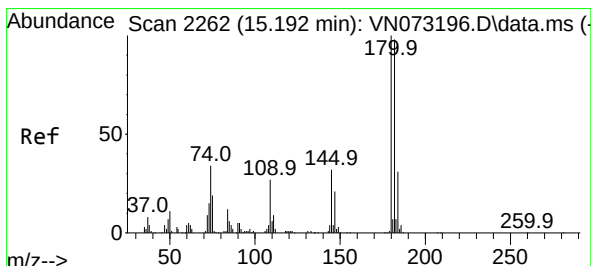
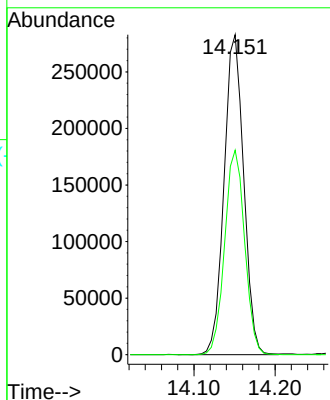
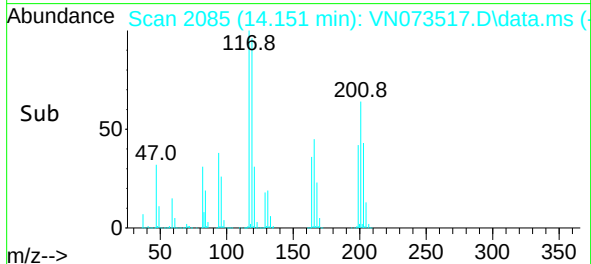
Instrument :
MSVOA_N
ClientSampleId :
SPC-04-84



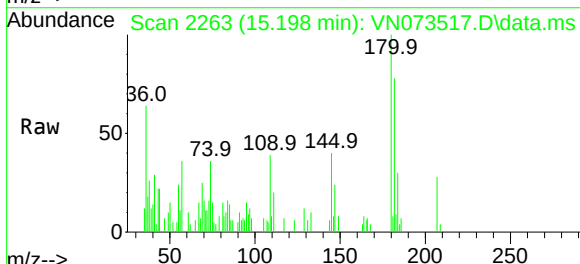
Tgt Ion:117 Resp: 475464
Ion Ratio Lower Upper
117 100
201 65.1 40.6 122.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#93
1,2,4-Trichlorobenzene
Concen: 1.600 ug/l
RT: 15.198 min Scan# 2263
Delta R.T. 0.006 min
Lab File: VN073517.D
Acq: 19 Jul 2022 15:39



Tgt Ion:180 Resp: 6618
Ion Ratio Lower Upper
180 100
182 93.7 47.5 142.5
145 49.2 14.5 43.5#

