

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
 Data File : VX046782.D
 Acq On : 20 Jun 2025 14:31
 Operator : JC/MD
 Sample : Q2366-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 250528063-02

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 23:15:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	21879m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	135511	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	125678	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	53714	30.329	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.100%			
60) 4-Bromofluorobenzene	11.079	95	59933	28.292	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.300%			
63) Toluene-d8	8.647	98	158455	28.226	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.100%			
Target Compounds						
					Qvalue	
6) Chloroethane	1.709	64	989	1.218	ug/l	98
8) Diethyl Ether	2.148	74	12772	18.013	ug/l	93
15) Acetone	2.392	58	805	5.203	ug/l	80
23) tert-Butyl Alcohol	2.953	59	27052	197.974	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	2893	0.725	ug/l #	77
34) Benzene	6.050	78	10342	1.651	ug/l #	82
45) 1,4-Dioxane	7.665	88	3527m	177.635	ug/l	
62) Toluene	8.720	91	13369	1.963	ug/l	98
64) Chlorobenzene	10.079	112	81691	18.596	ug/l	99
66) Ethyl Benzene	10.195	91	67554	8.686	ug/l	98
67) m/p-Xylenes	10.299	106	21996	7.647	ug/l	97
68) o-Xylene	10.640	106	16439	5.935	ug/l	97
70) Isopropylbenzene	10.963	105	10046	1.352	ug/l	97
74) n-propylbenzene	11.305	91	5257	0.591	ug/l	100
75) 2-Chlorotoluene	11.366	91	6317	1.187	ug/l	89
76) 1,3,5-Trimethylbenzene	11.451	105	4221	0.683	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	21381	3.506	ug/l	97
82) p-Isopropyltoluene	12.006	119	4717	0.729	ug/l	96
84) 1,4-Dichlorobenzene	12.036	146	38864	11.916	ug/l	97
87) 1,2-Dichlorobenzene	12.329	146	2814m	0.902	ug/l	
91) Naphthalene	13.774	128	107255	16.435	ug/l	99

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

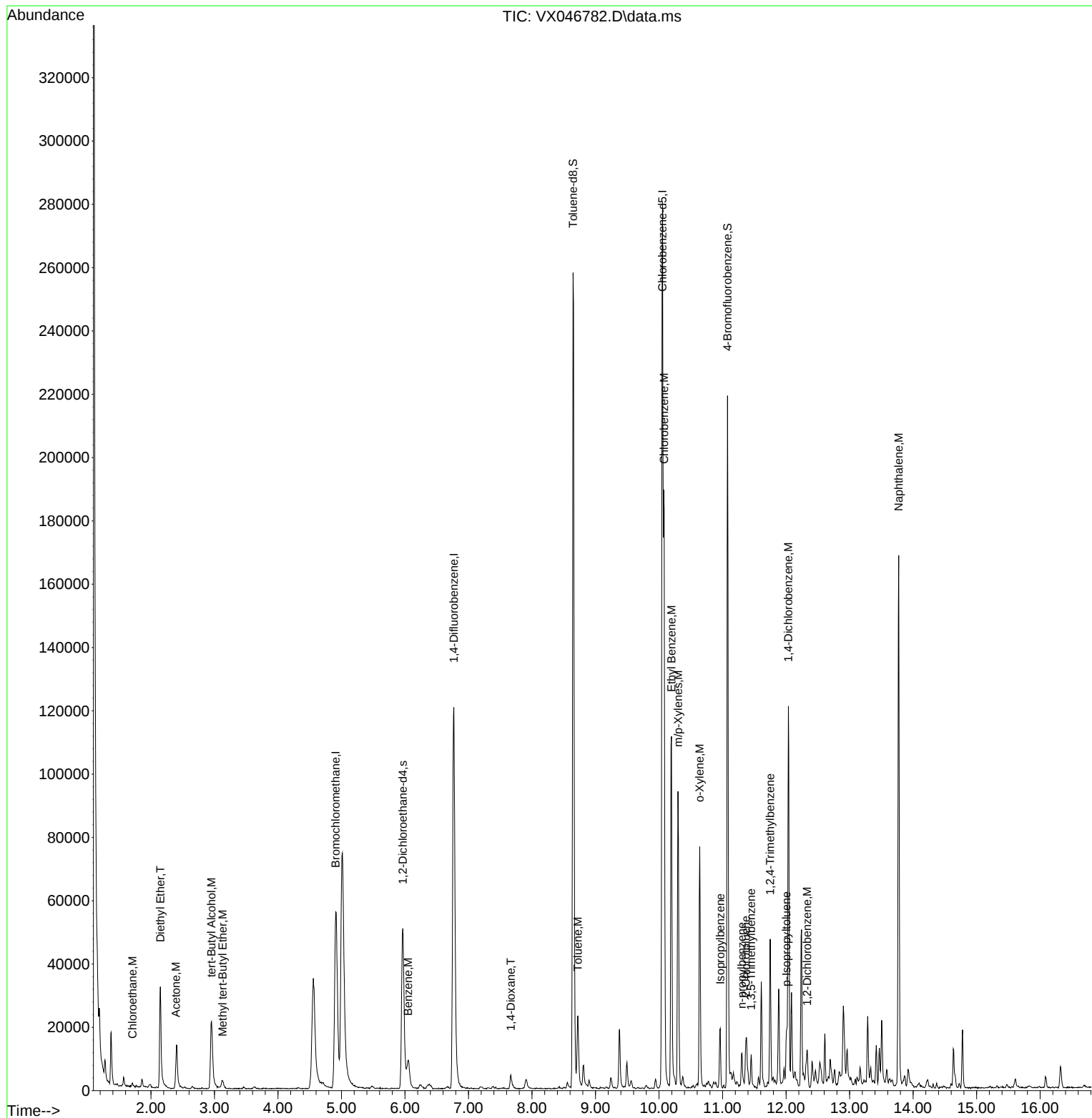
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046782.D
Acq On : 20 Jun 2025 14:31
Operator : JC/MD
Sample : Q2366-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

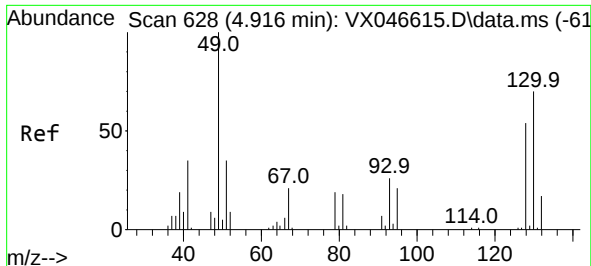
Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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Reviewed By : John Carlone 06/23/2025
Supervised By : Mahesh Dadoda 06/23/2025

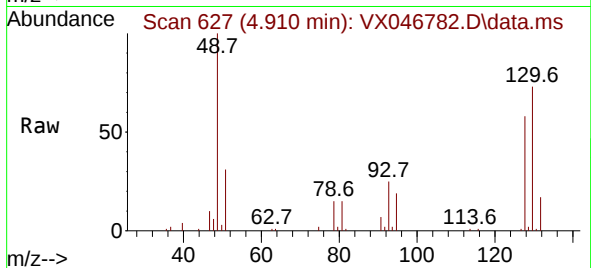
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l m
RT: 4.910 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

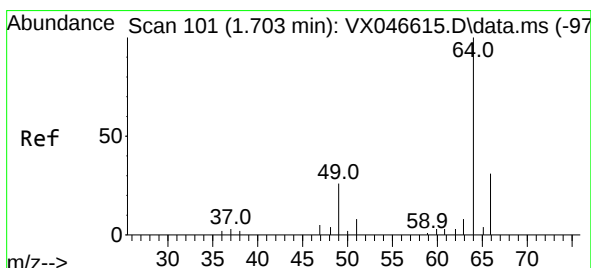
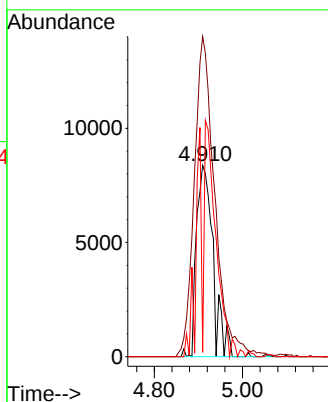
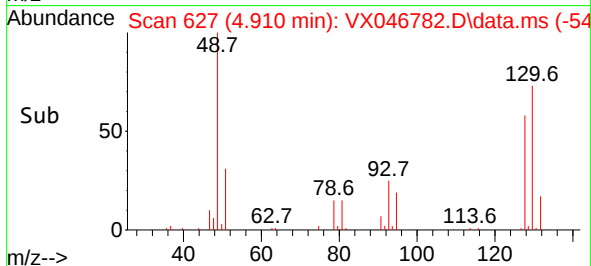
Instrument :
MSVOA_X
ClientSampleId :
250528063-02



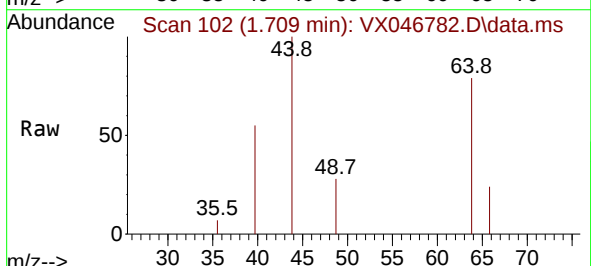
Tgt Ion:128 Resp: 21879
Ion Ratio Lower Upper
128 100
49 204.9 0.0 448.3
130 83.3 0.0 312.0

Manual Integrations
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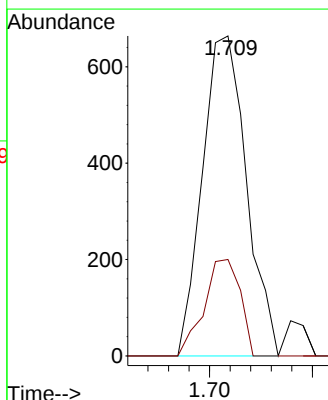
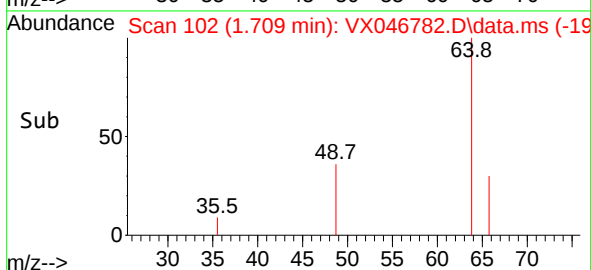
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

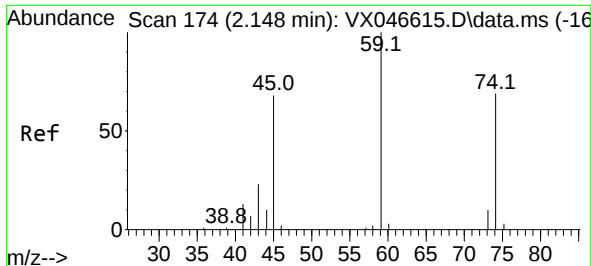


#6
Chloroethane
Concen: 1.218 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31



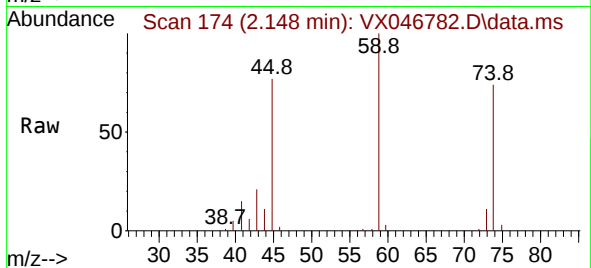
Tgt Ion: 64 Resp: 989
Ion Ratio Lower Upper
64 100
66 30.1 25.0 37.6





#8
Diethyl Ether
Concen: 18.013 ug/l
RT: 2.148 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

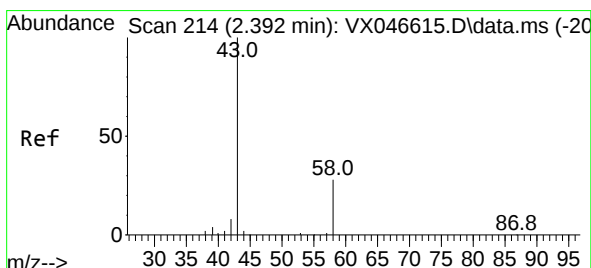
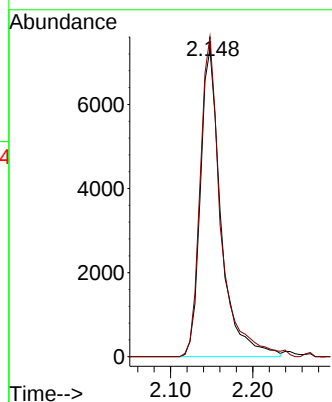
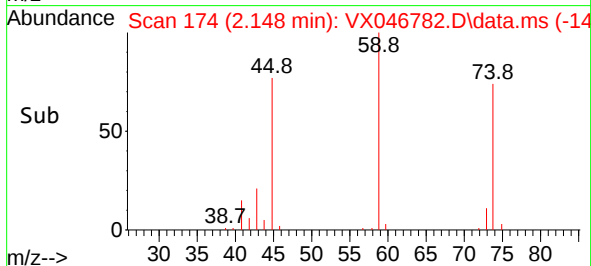
Instrument :
MSVOA_X
ClientSampleId :
250528063-02



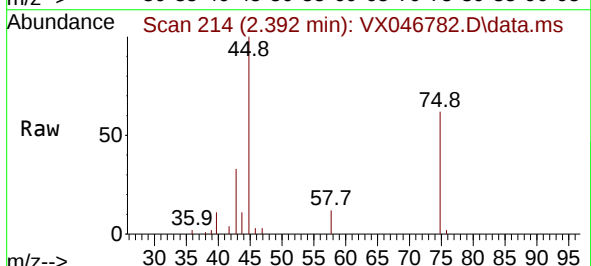
Tgt Ion: 74 Resp: 1277
Ion Ratio Lower Upper
74 100
45 103.8 19.3 174.1

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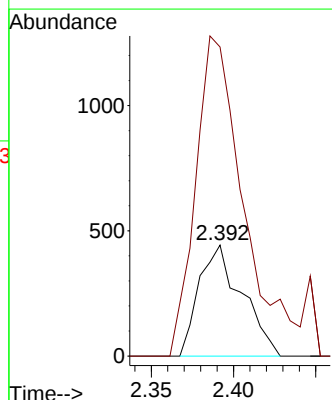
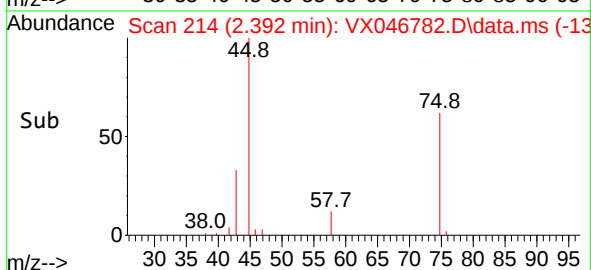
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

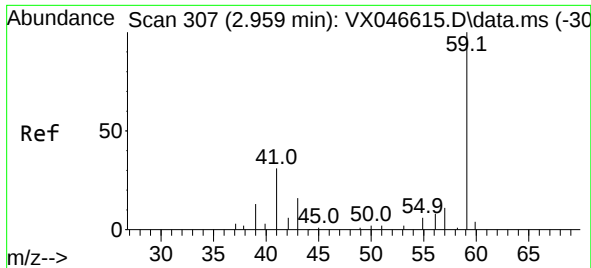


#15
Acetone
Concen: 5.203 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31



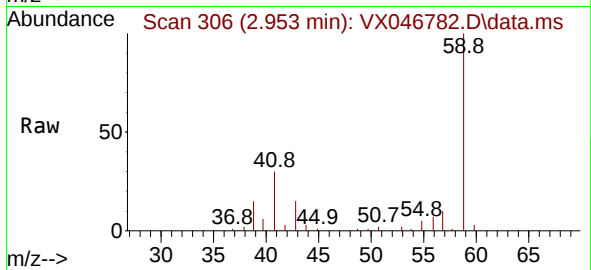
Tgt Ion: 58 Resp: 805
Ion Ratio Lower Upper
58 100
43 317.8 290.6 435.8





#23
tert-Butyl Alcohol
Concen: 197.974 ug/l
RT: 2.953 min Scan# 307
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

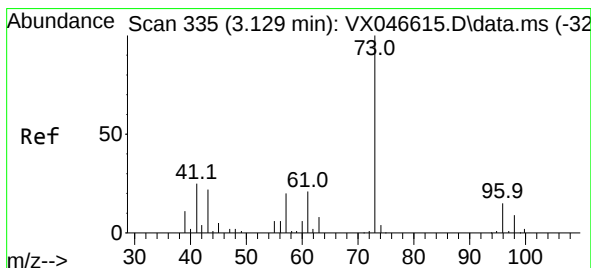
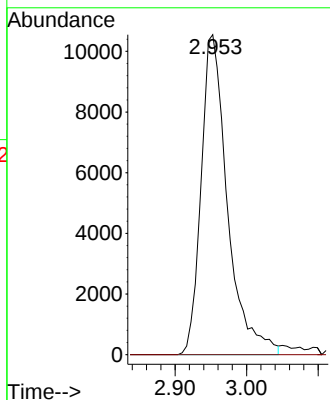
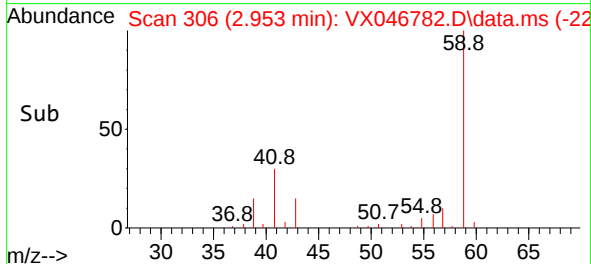
Instrument :
MSVOA_X
ClientSampleId :
250528063-02



Tgt Ion: 59 Resp: 2705
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

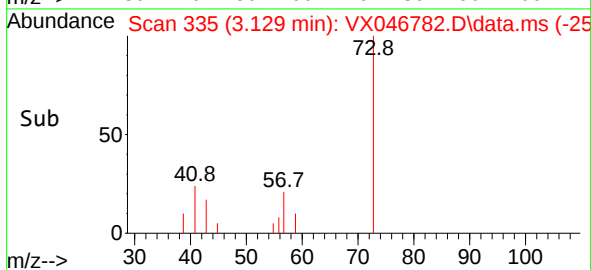
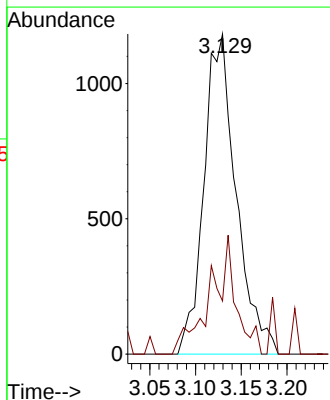
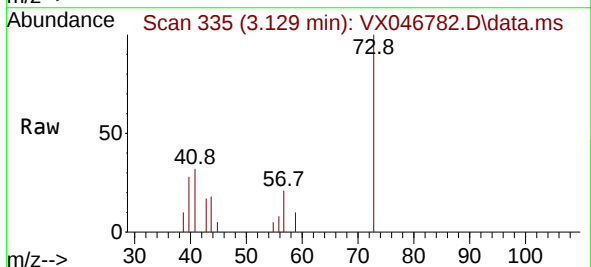
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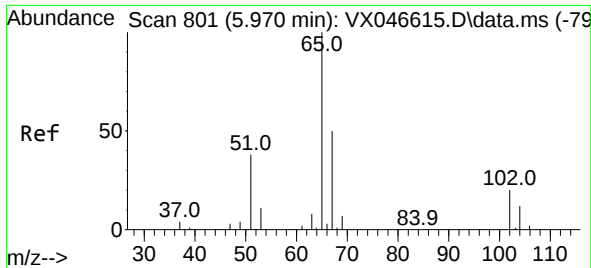
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#24
Methyl tert-Butyl Ether
Concen: 0.725 ug/l
RT: 3.129 min Scan# 335
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 73 Resp: 2893
Ion Ratio Lower Upper
73 100
43 11.6 18.4 27.6#





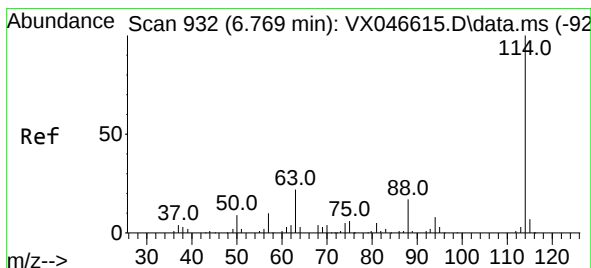
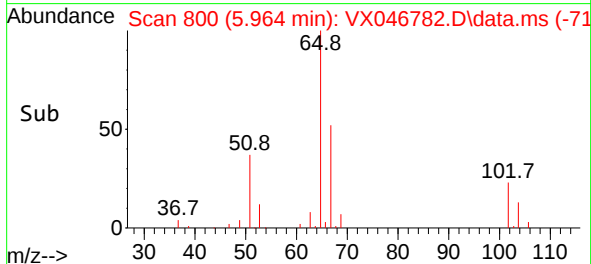
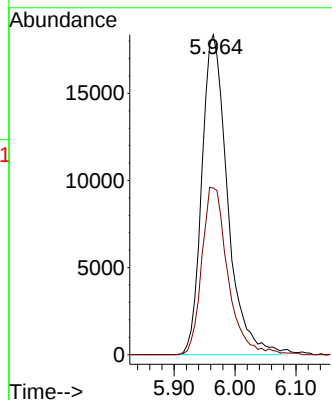
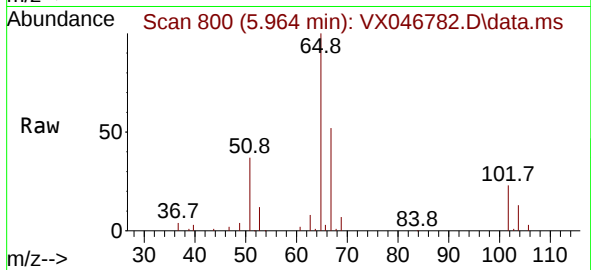
#27
1,2-Dichloroethane-d4
Concen: 30.329 ug/l
RT: 5.964 min Scan# 801
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Tgt Ion: 65 Resp: 53714
Ion Ratio Lower Upper
65 100
67 52.5 41.4 62.2

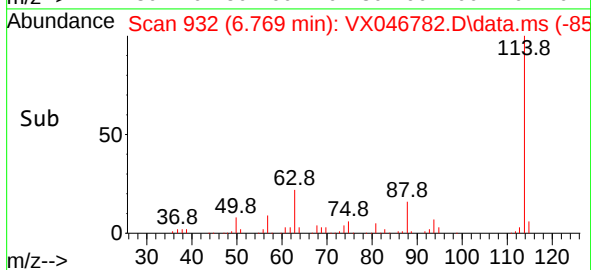
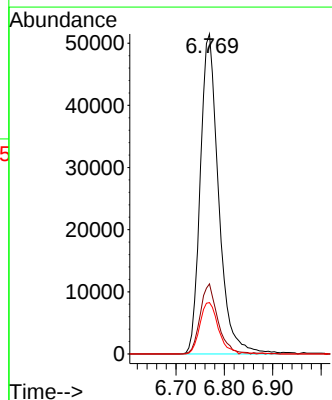
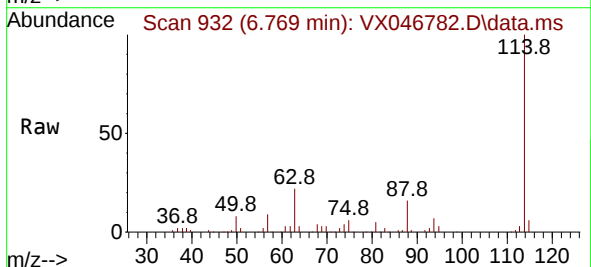
Manual Integrations
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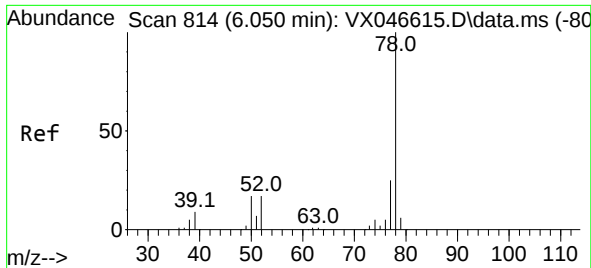
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

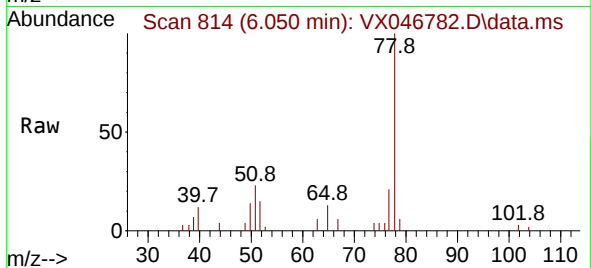
Tgt Ion:114 Resp: 135511
Ion Ratio Lower Upper
114 100
63 21.1 18.1 27.1
88 16.0 14.1 21.1





#34
Benzene
Concen: 1.651 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

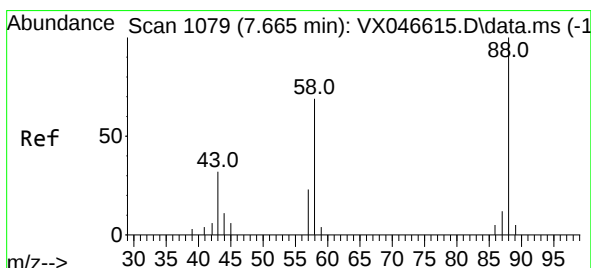
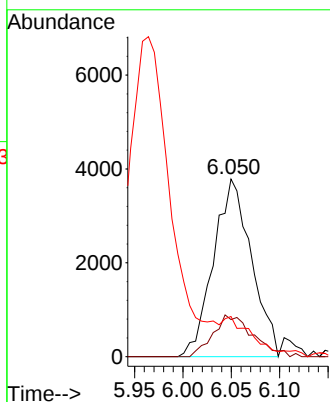
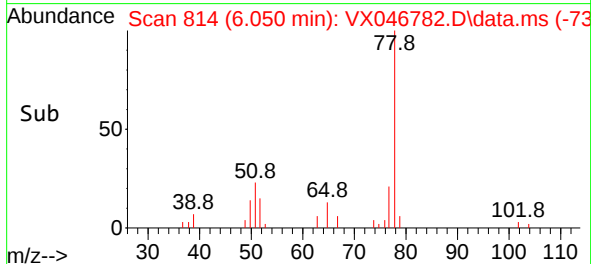
Instrument :
MSVOA_X
ClientSampleId :
250528063-02



Tgt Ion: 78 Resp: 1034
Ion Ratio Lower Upper
78 100
77 19.8 19.8 29.8
51 31.1 14.7 22.1

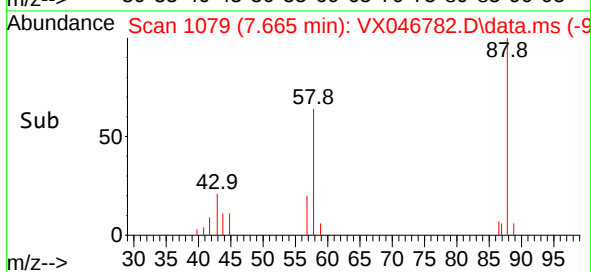
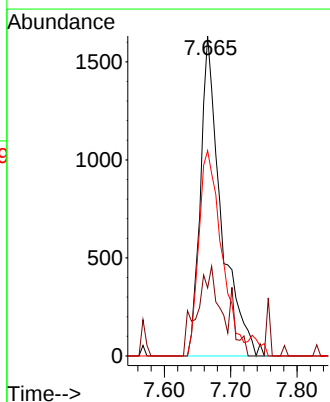
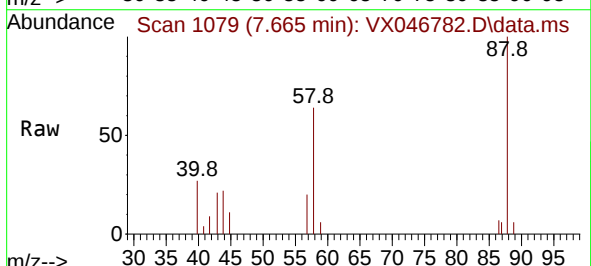
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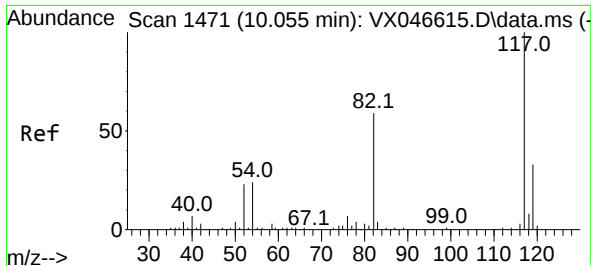
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#45
1,4-Dioxane
Concen: 177.635 ug/l m
RT: 7.665 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

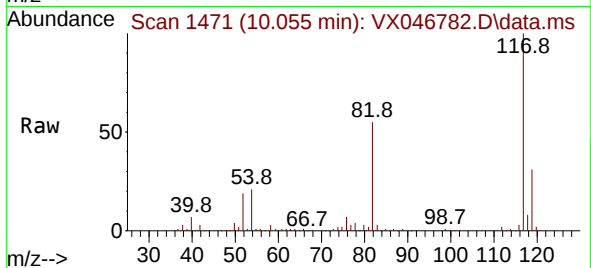
Tgt Ion: 88 Resp: 3527
Ion Ratio Lower Upper
88 100
43 25.9 21.6 32.4
58 70.8 60.8 91.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

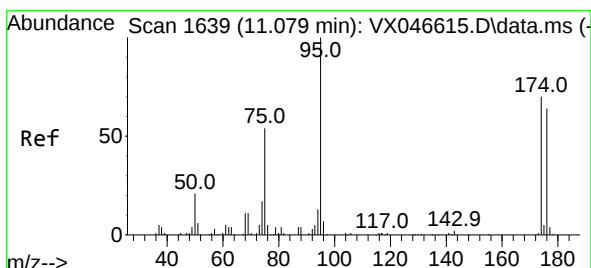
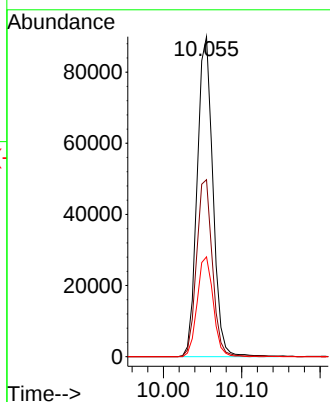
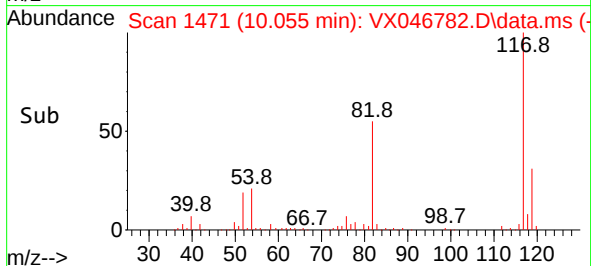
Instrument :
MSVOA_X
ClientSampleId :
250528063-02



Tgt Ion:117 Resp: 125678
Ion Ratio Lower Upper
117 100
82 55.6 46.5 69.7
119 31.7 25.8 38.6

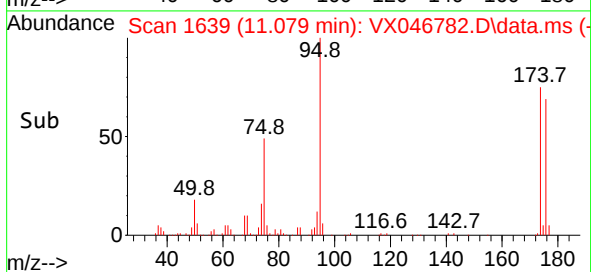
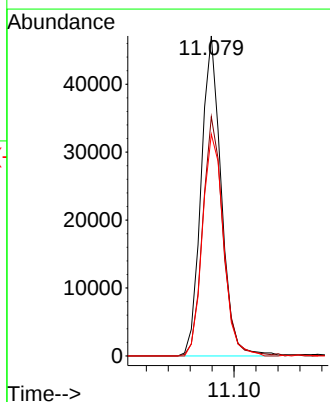
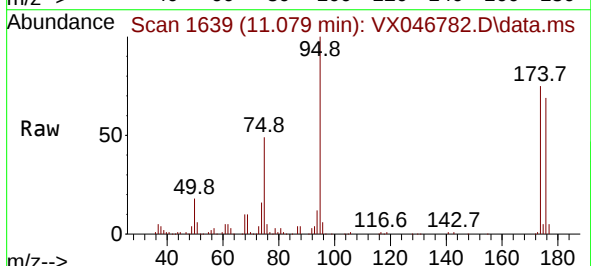
Manual Integrations
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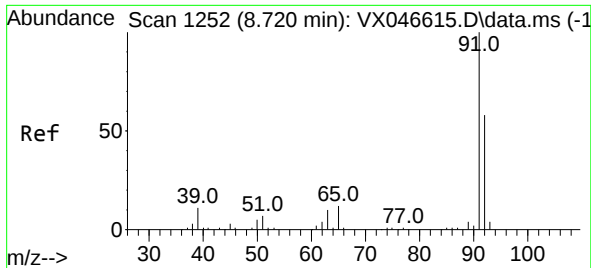
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#60
4-Bromofluorobenzene
Concen: 28.292 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

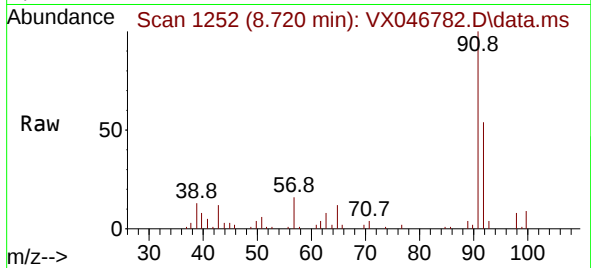
Tgt Ion: 95 Resp: 59933
Ion Ratio Lower Upper
95 100
174 75.4 56.0 84.0
176 72.6 52.2 78.4





#62
Toluene
Concen: 1.963 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

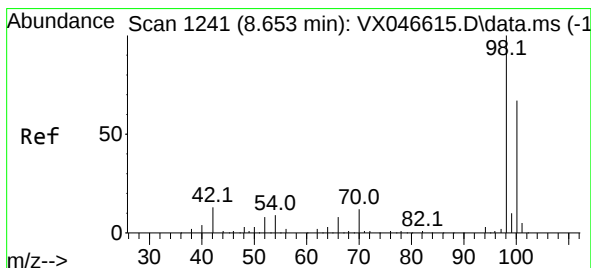
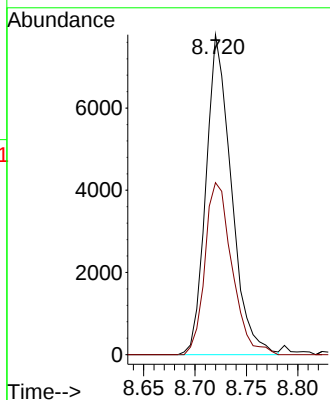
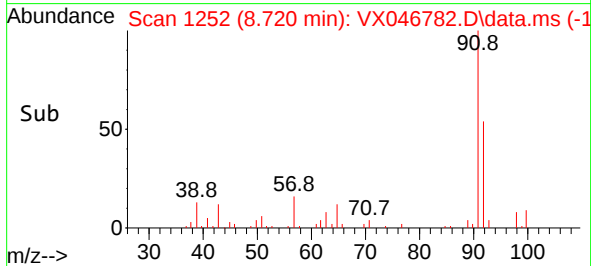
Instrument :
MSVOA_X
ClientSampleId :
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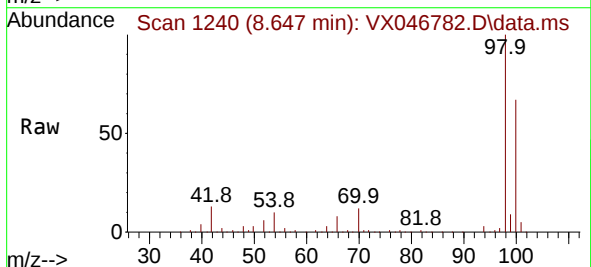
Tgt Ion: 91 Resp: 13369
Ion Ratio Lower Upper
91 100
92 56.6 46.8 70.2

Manual Integrations
APPROVED

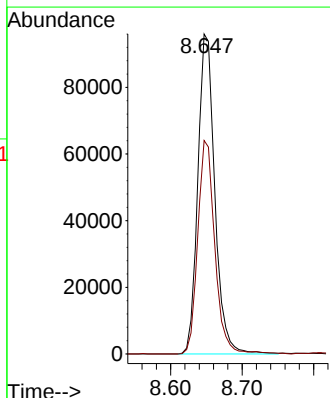
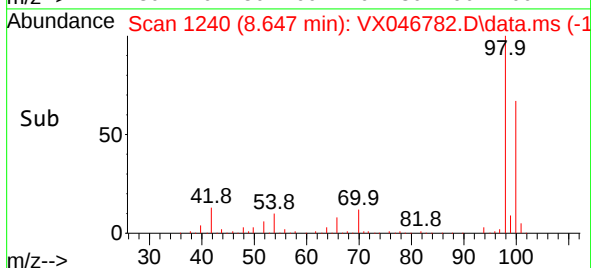
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

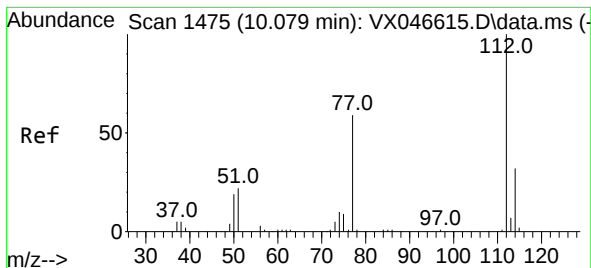


#63
Toluene-d8
Concen: 28.226 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31



Tgt Ion: 98 Resp: 158455
Ion Ratio Lower Upper
98 100
100 66.4 52.6 79.0





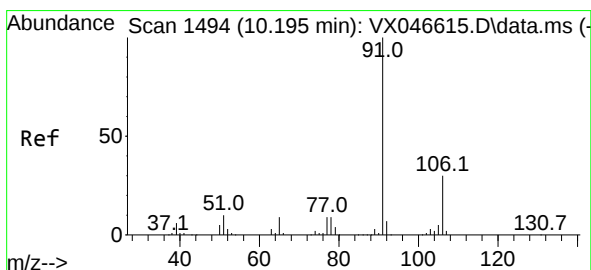
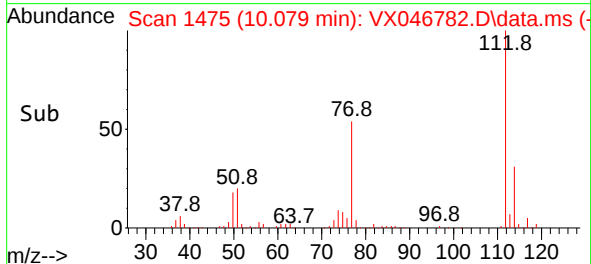
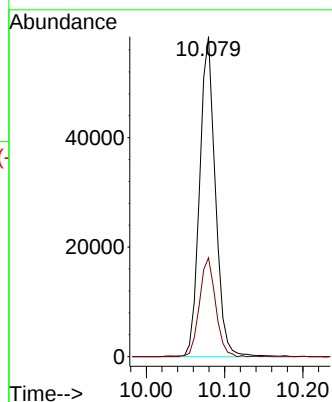
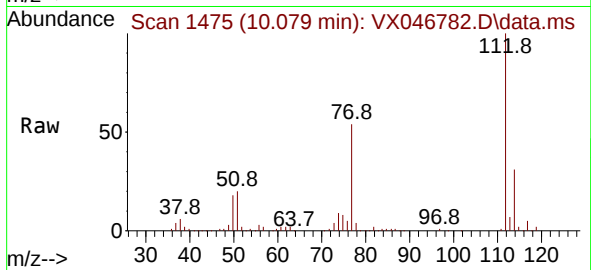
#64
Chlorobenzene
Concen: 18.596 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Tgt Ion:112 Resp: 8169
Ion Ratio Lower Upper
112 100
114 30.9 25.4 38.0

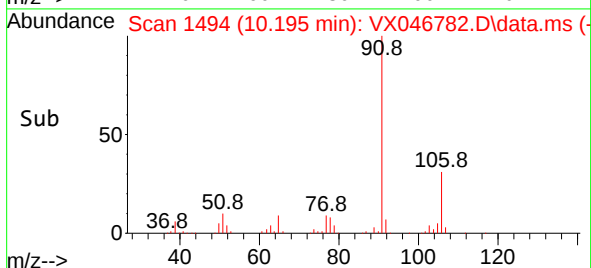
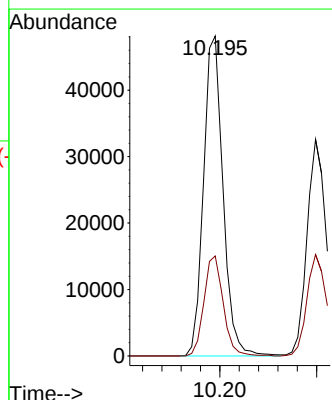
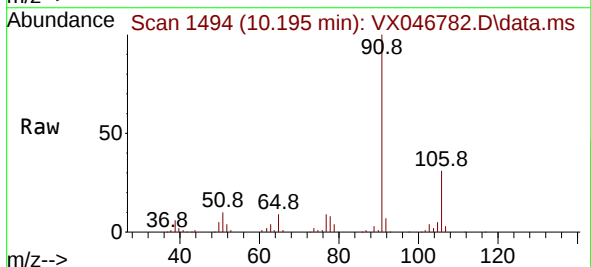
Manual Integrations
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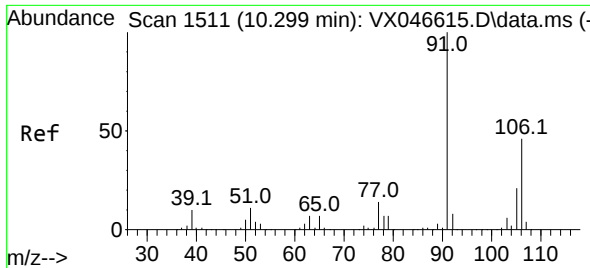
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#66
Ethyl Benzene
Concen: 8.686 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 91 Resp: 67554
Ion Ratio Lower Upper
91 100
106 31.2 23.9 35.9





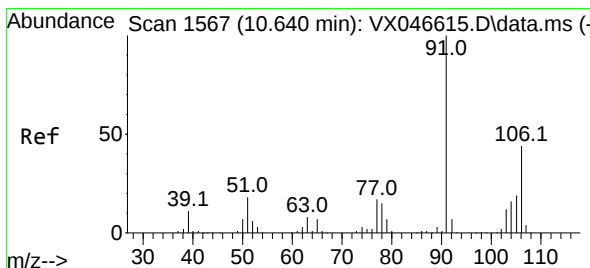
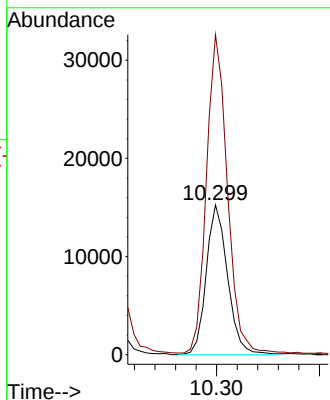
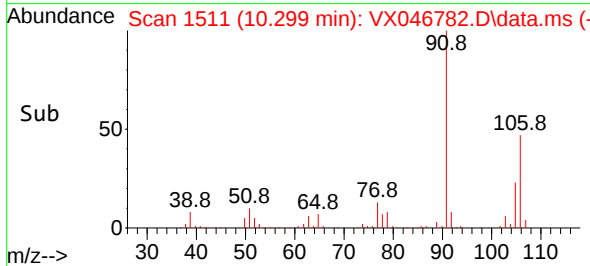
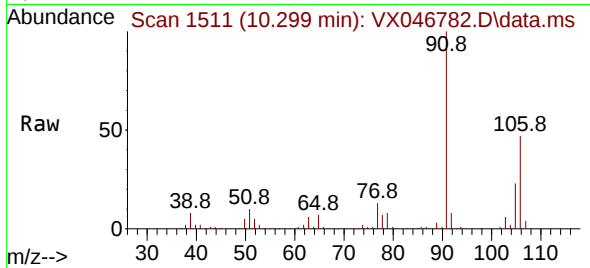
#67
m/p-Xylenes
Concen: 7.647 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Tgt Ion:106 Resp: 21990
Ion Ratio Lower Upper
106 100
91 209.5 171.5 257.3

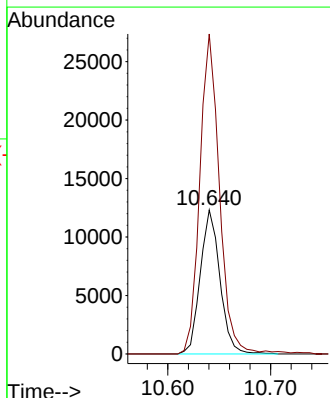
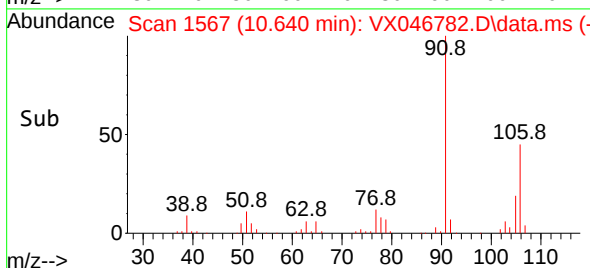
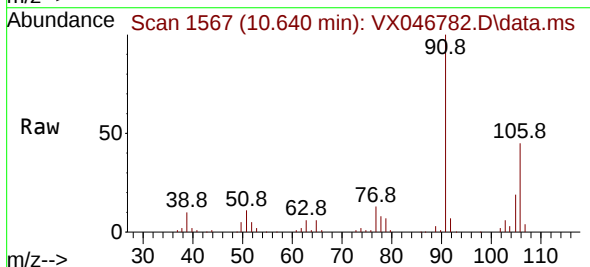
Manual Integrations
APPROVED

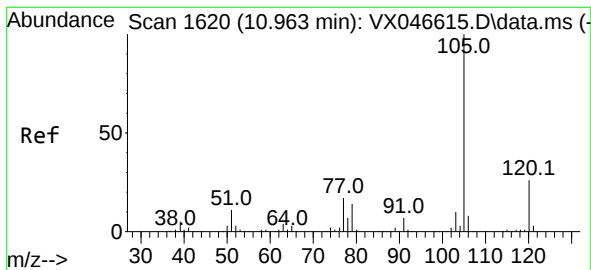
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#68
o-Xylene
Concen: 5.935 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:106 Resp: 16439
Ion Ratio Lower Upper
106 100
91 219.7 112.3 336.9





#70

Isopropylbenzene

Concen: 1.352 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX046782.D

Acq: 20 Jun 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

250528063-02

Tgt Ion:105 Resp: 1004

Ion Ratio Lower Upper

105 100

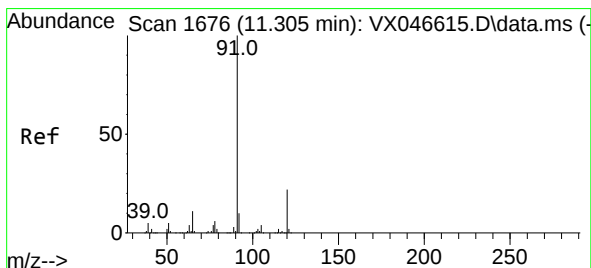
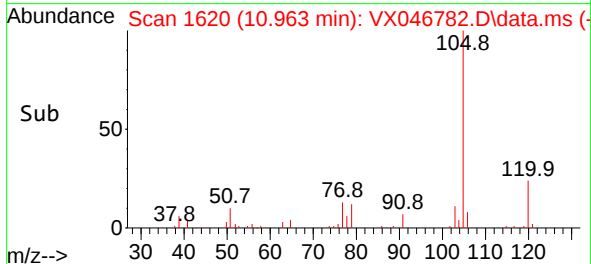
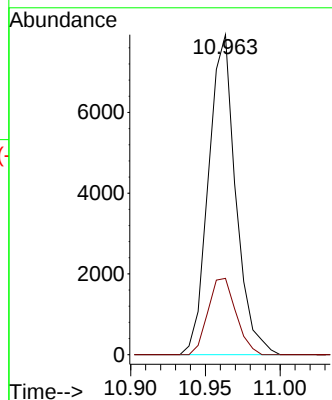
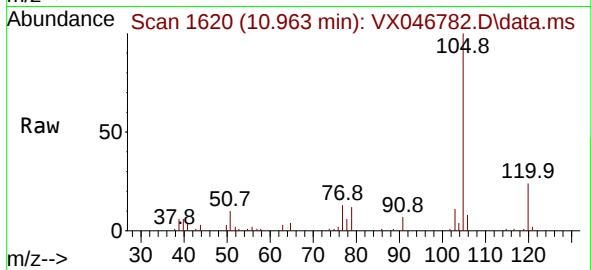
120 24.5 18.1 33.5

Manual Integrations

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Reviewed By :John Carlone 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#74

n-propylbenzene

Concen: 0.591 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX046782.D

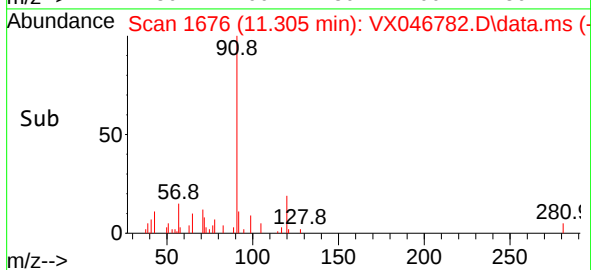
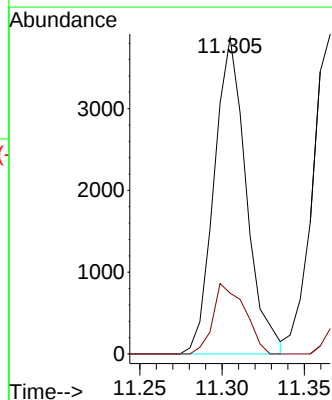
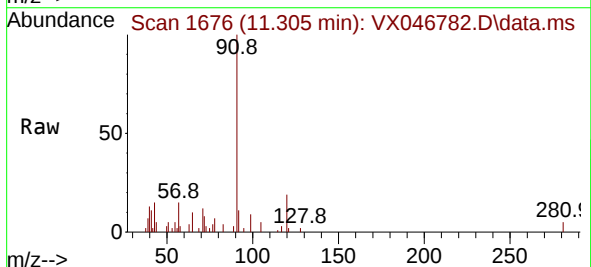
Acq: 20 Jun 2025 14:31

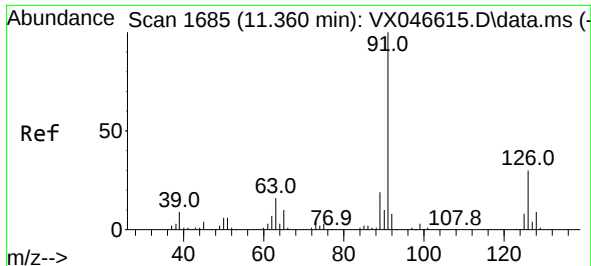
Tgt Ion: 91 Resp: 5257

Ion Ratio Lower Upper

91 100

120 22.0 0.0 43.8





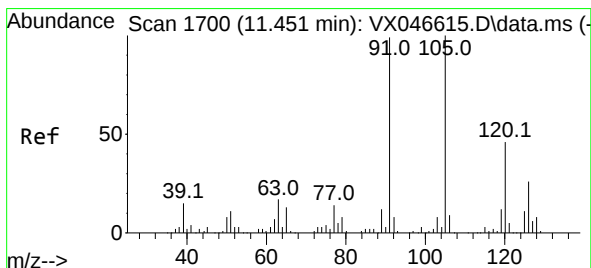
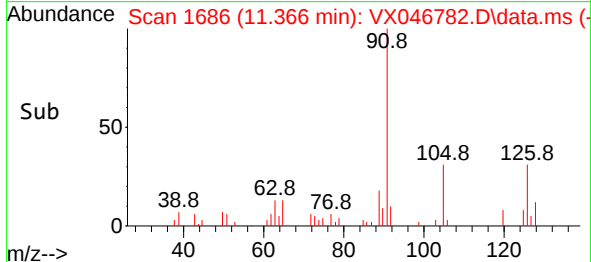
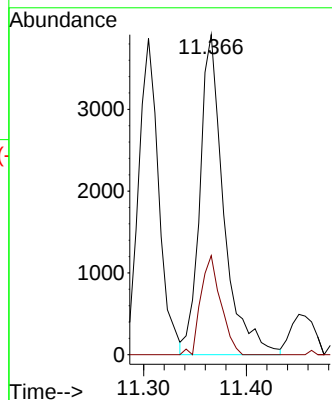
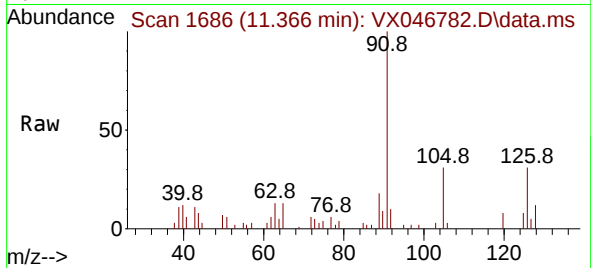
#75
2-Chlorotoluene
Concen: 1.187 ug/l
RT: 11.366 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Tgt Ion: 91 Resp: 631
Ion Ratio Lower Upper
91 100
126 25.4 0.0 63.0

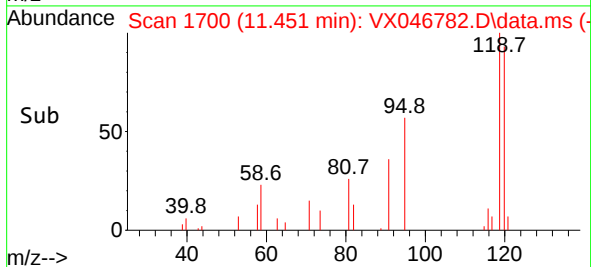
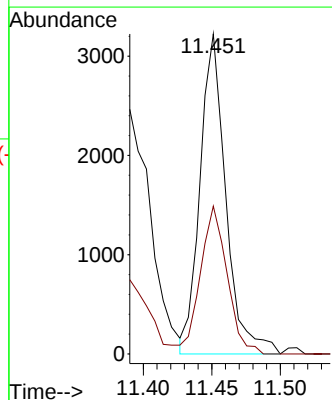
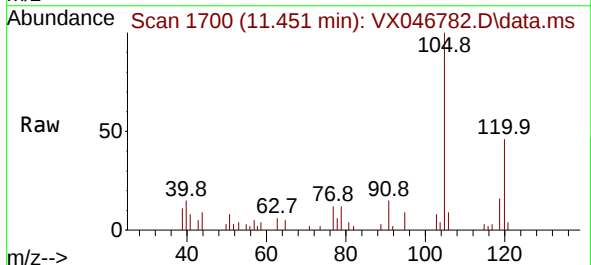
Manual Integrations
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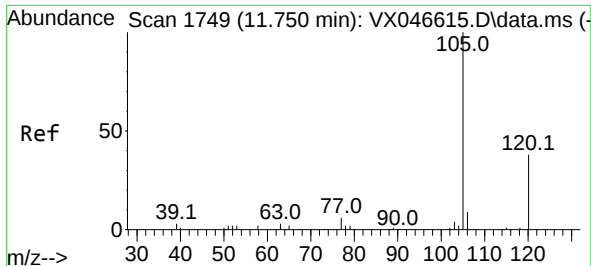
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#76
1,3,5-Trimethylbenzene
Concen: 0.683 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:105 Resp: 4221
Ion Ratio Lower Upper
105 100
120 47.6 0.0 92.8





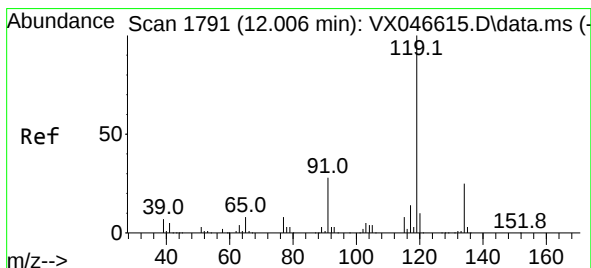
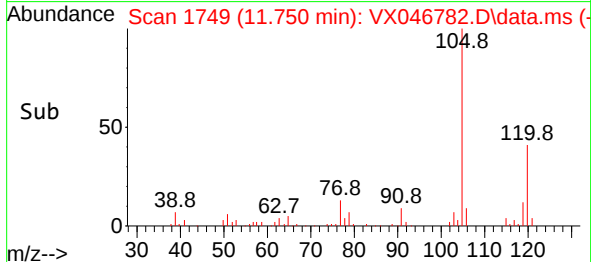
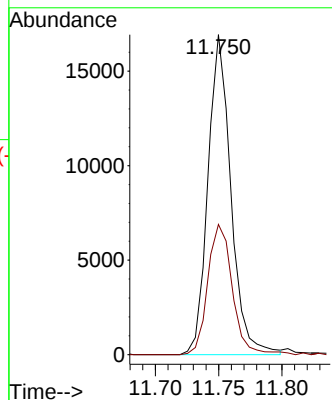
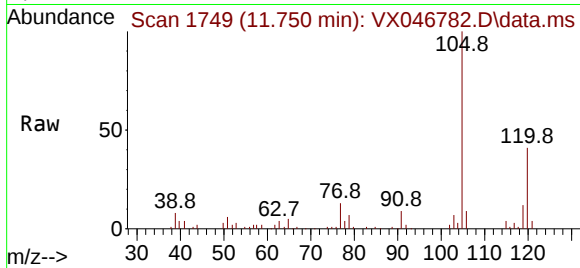
#80
1,2,4-Trimethylbenzene
Concen: 3.506 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Tgt Ion:105 Resp: 2138
Ion Ratio Lower Upper
105 100
120 43.1 0.0 89.6

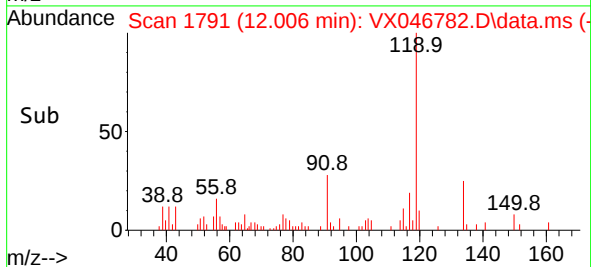
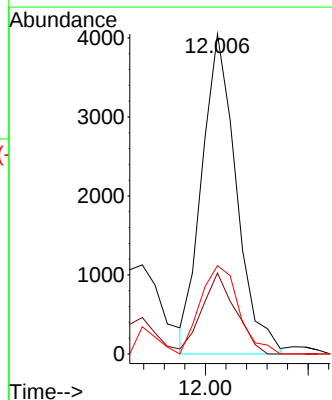
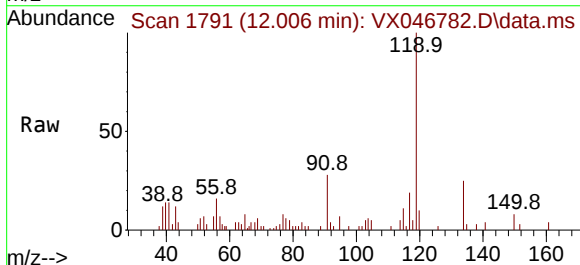
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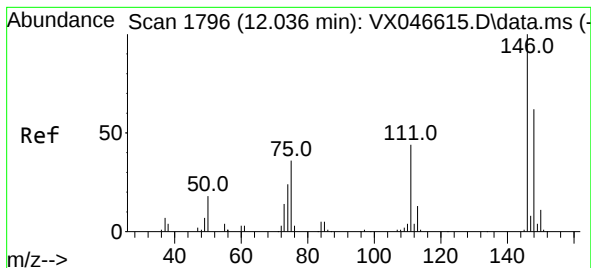
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#82
p-Isopropyltoluene
Concen: 0.729 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:119 Resp: 4717
Ion Ratio Lower Upper
119 100
134 24.5 0.0 50.0
91 30.9 0.0 54.0





#84

1,4-Dichlorobenzene

Concen: 11.916 ug/l

RT: 12.036 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046782.D

Acq: 20 Jun 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

250528063-02

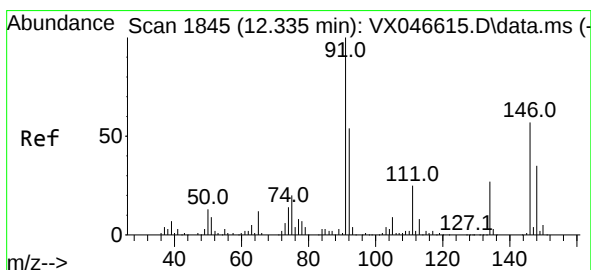
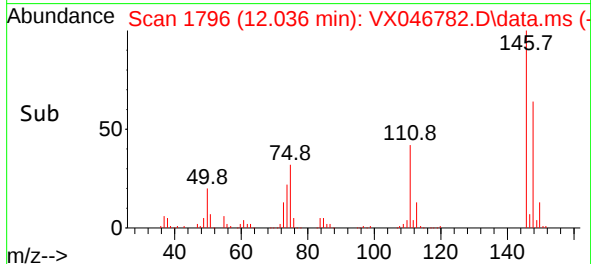
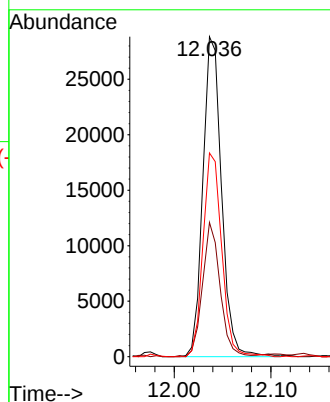
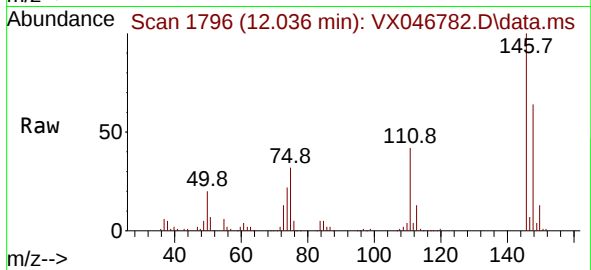
Tgt Ion:146	Resp:	3886
Ion Ratio	Lower	Upper
146	100	
111	39.3	21.3 63.7
148	63.7	31.4 94.3

Manual Integrations

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Reviewed By :John Carlone 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#87

1,2-Dichlorobenzene

Concen: 0.902 ug/l m

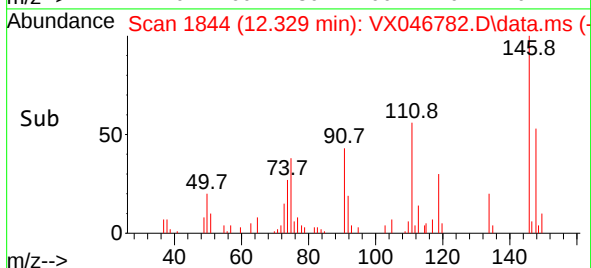
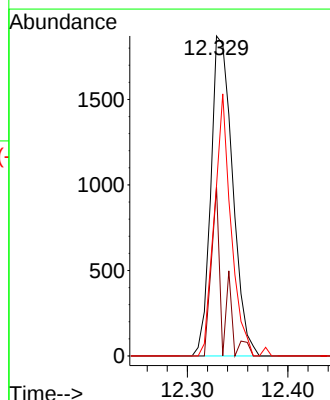
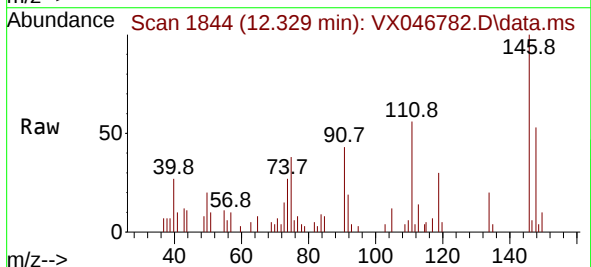
RT: 12.329 min Scan# 1844

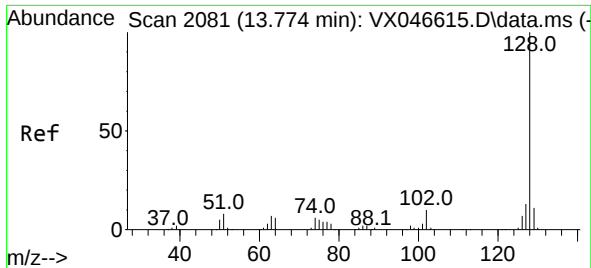
Delta R.T. -0.006 min

Lab File: VX046782.D

Acq: 20 Jun 2025 14:31

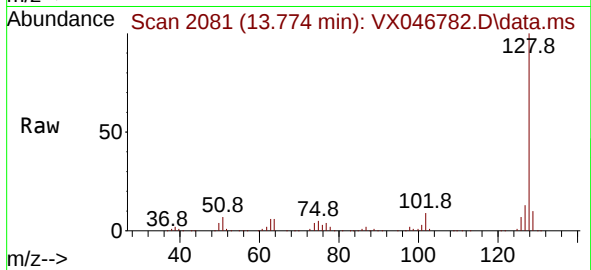
Tgt Ion:146	Resp:	2814
Ion Ratio	Lower	Upper
146	100	
111	542.6	22.9 68.5#
148	880.3	31.6 94.8#





#91
Naphthalene
Concen: 16.435 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
250528063-02



Tgt Ion:128 Resp: 107258
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 10.2 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

