

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046625.D
 Acq On : 11 Jun 2025 00:54
 Operator : JC/MD
 Sample : Q2203-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/11/2025
 Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 06:52:46 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	4.916	128	17480	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	92940	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	83680	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	43798	30.953	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	103.167%		
60) 4-Bromofluorobenzene	11.079	95	40172	28.482	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.933%		
63) Toluene-d8	8.653	98	111982	29.960	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.867%		
Target Compounds						
					Qvalue	
12) Methyl Acetate	2.715	43	6724	5.112	ug/l	100
15) Acetone	2.386	58	23040	186.407	ug/l	90
16) Carbon Disulfide	2.575	76	82046m	28.340	ug/l	
18) Methylene Chloride	2.806	84	1302	1.131	ug/l #	76
30) 2-Butanone	4.574	43	24433	37.499	ug/l #	91
58) 4-Methyl-2-Pentanone	8.580	43	5836	4.288	ug/l	97
62) Toluene	8.720	91	1293292	285.183	ug/l	100
66) Ethyl Benzene	10.195	91	2463m	0.476	ug/l	
67) m/p-Xylenes	10.299	106	2338	1.221	ug/l	93
68) o-Xylene	10.640	106	785	0.426	ug/l	75
76) 1,3,5-Trimethylbenzene	11.451	105	941	0.229	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	4241	1.044	ug/l	80
82) p-Isopropyltoluene	12.006	119	20174	4.684	ug/l	99
91) Naphthalene	13.780	128	2566	0.591	ug/l	96

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

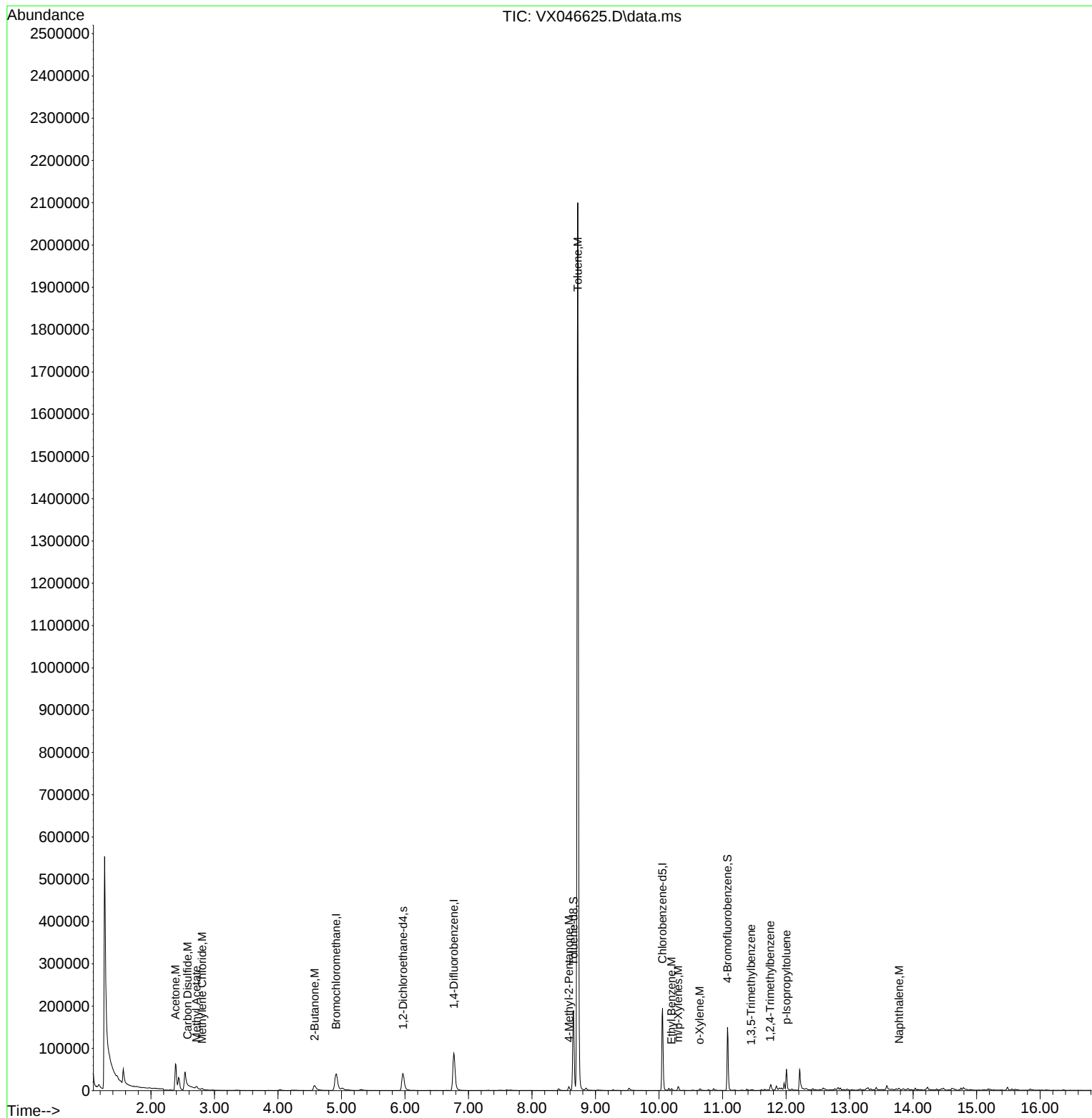
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046625.D
Acq On : 11 Jun 2025 00:54
Operator : JC/MD
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ALS Vial : 46 Sample Multiplier: 1

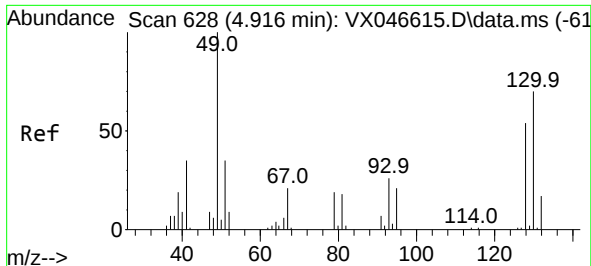
Instrument :
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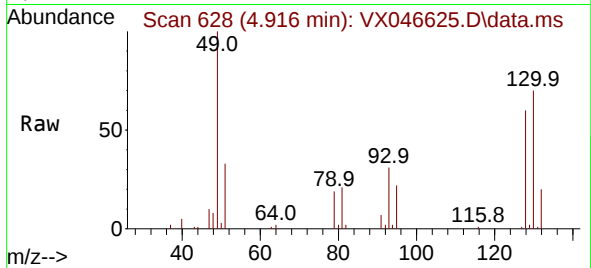
Quant Time: Jun 11 06:52:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

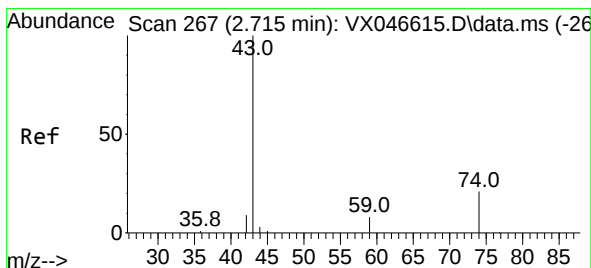
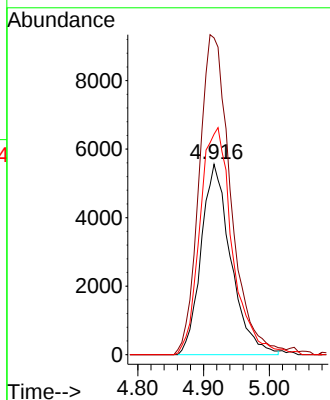
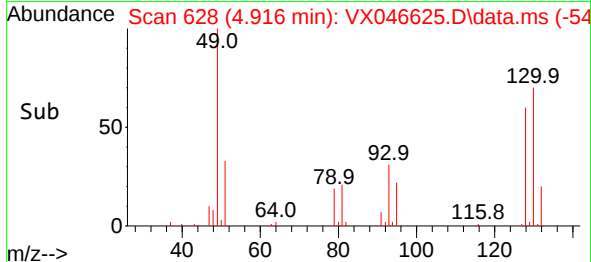
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)



Tgt Ion:128 Resp: 17480
Ion Ratio Lower Upper
128 100
49 178.7 0.0 448.3
130 129.5 0.0 312.0

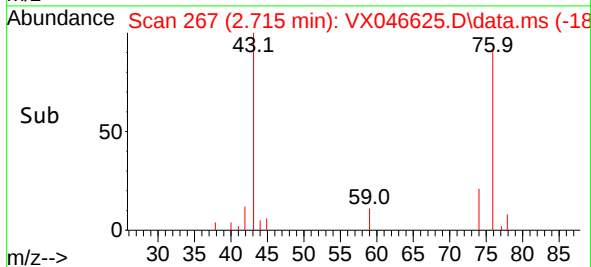
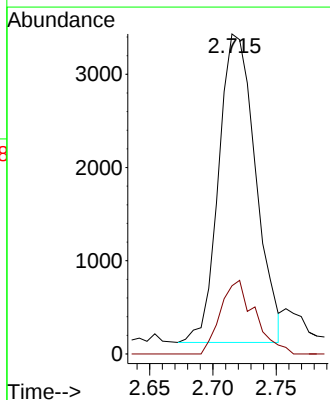
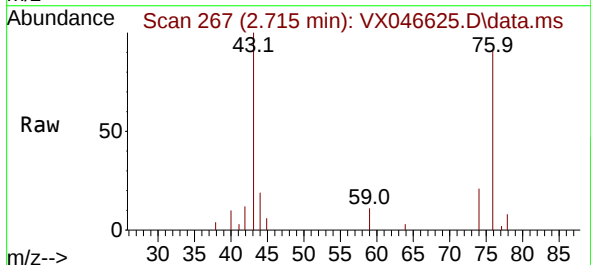
Manual Integrations
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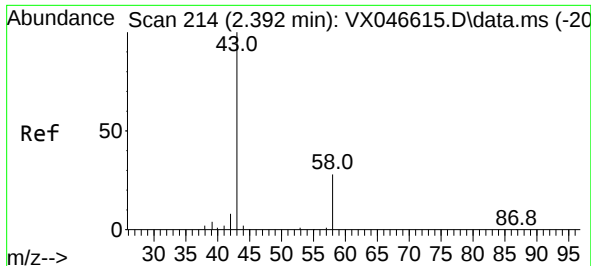
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#12
Methyl Acetate
Concen: 5.112 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

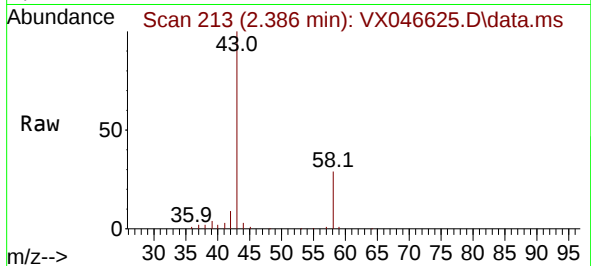
Tgt Ion: 43 Resp: 6724
Ion Ratio Lower Upper
43 100
74 21.7 17.2 25.8





#15
Acetone
Concen: 186.407 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

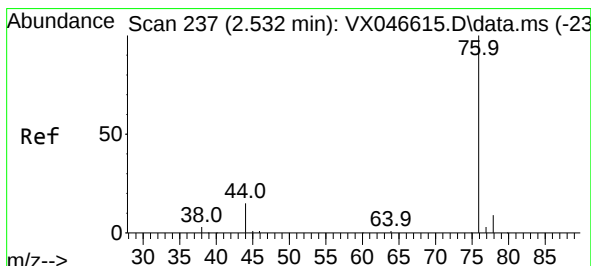
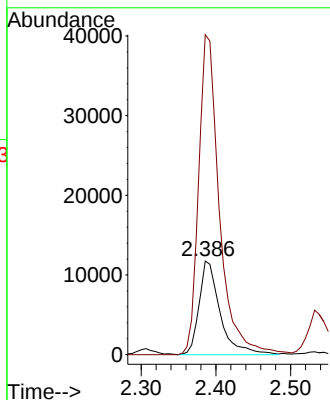
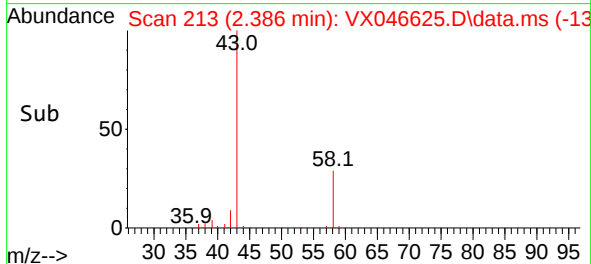
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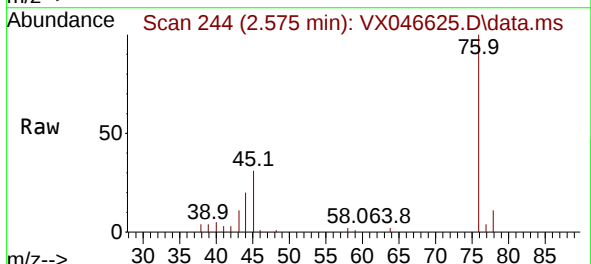
Tgt Ion: 58 Resp: 23040
Ion Ratio Lower Upper
58 100
43 341.7 290.6 435.8

Manual Integrations
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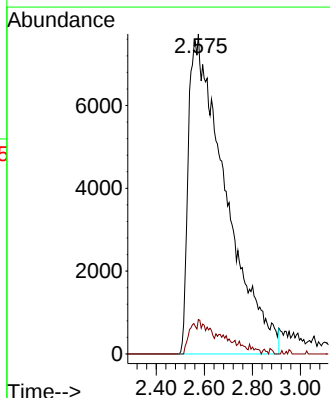
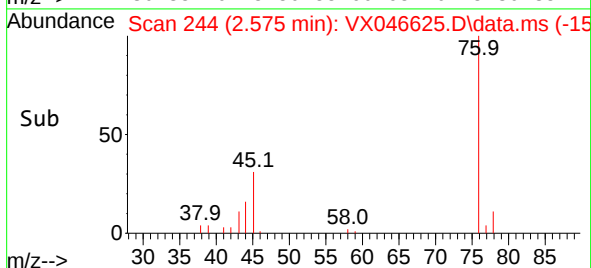
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

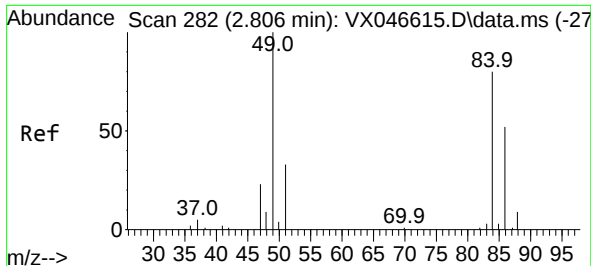


#16
Carbon Disulfide
Concen: 28.340 ug/l m
RT: 2.575 min Scan# 244
Delta R.T. 0.043 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54



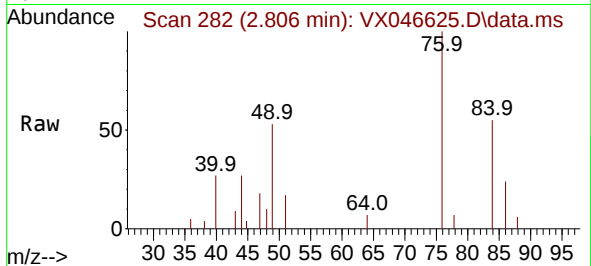
Tgt Ion: 76 Resp: 82046
Ion Ratio Lower Upper
76 100
78 10.8 7.4 11.0





#18
Methylene Chloride
Concen: 1.131 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

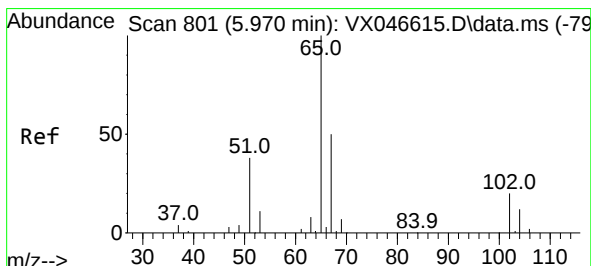
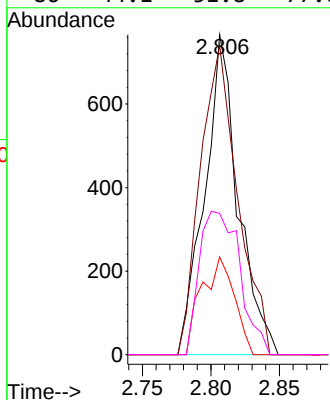
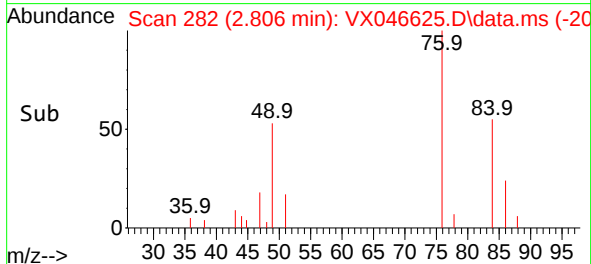
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)



Tgt Ion: 84 Resp: 1302
Ion Ratio Lower Upper
84 100
49 96.7 100.1 150.1
51 30.5 33.0 49.4
86 44.1 51.8 77.6

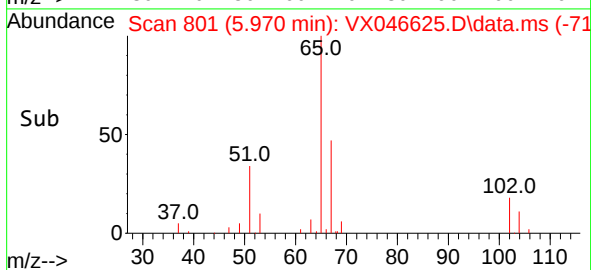
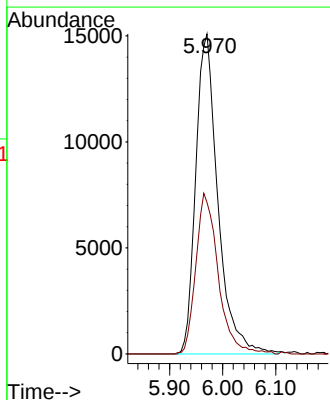
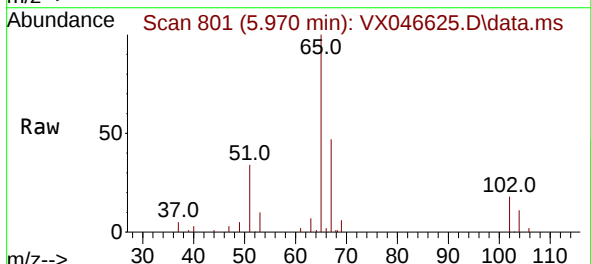
Manual Integrations
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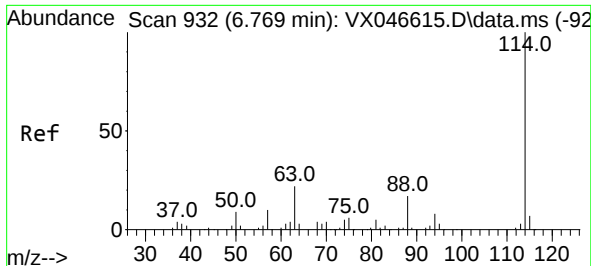
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#27
1,2-Dichloroethane-d4
Concen: 30.953 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 65 Resp: 43798
Ion Ratio Lower Upper
65 100
67 50.4 41.4 62.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)

Tgt Ion:114 Resp: 92940

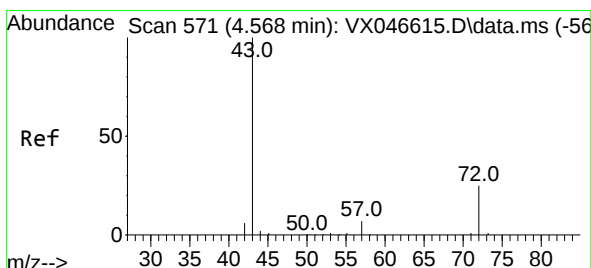
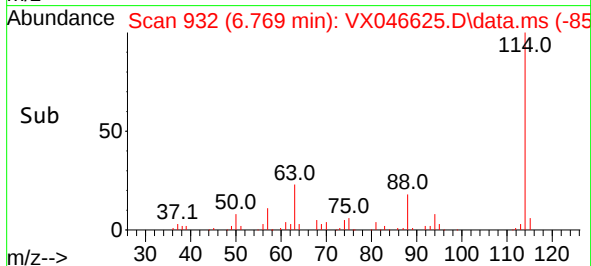
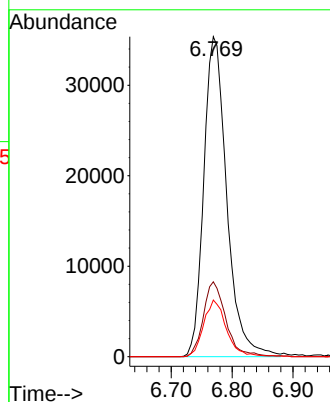
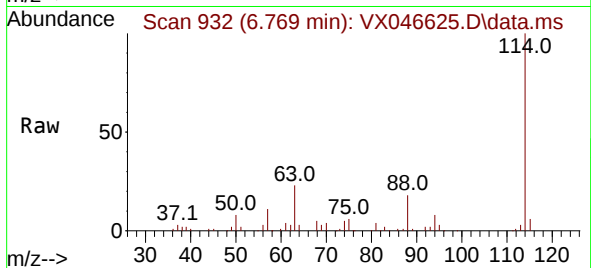
Ion	Ratio	Lower	Upper
114	100		
63	22.9	18.1	27.1
88	17.0	14.1	21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#30

2-Butanone

Concen: 37.499 ug/l

RT: 4.574 min Scan# 572

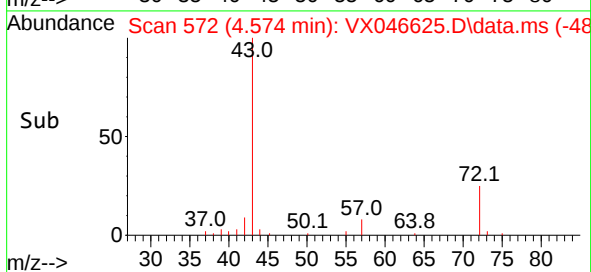
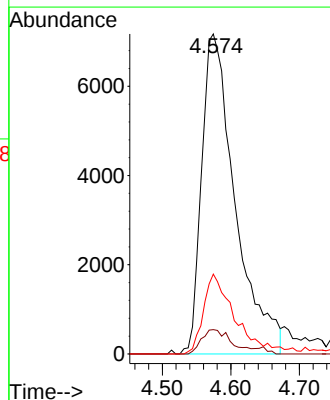
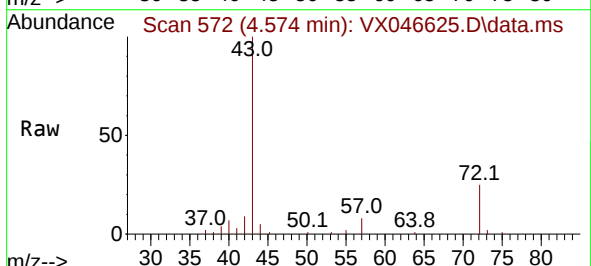
Delta R.T. 0.006 min

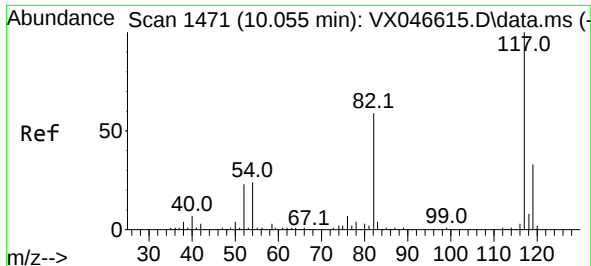
Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Tgt Ion: 43 Resp: 24433

Ion	Ratio	Lower	Upper
43	100		
57	6.3	5.8	8.6
72	18.8	19.4	29.2





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)

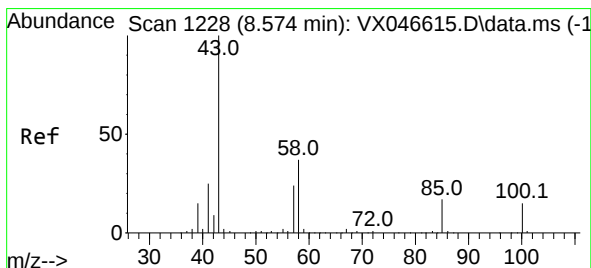
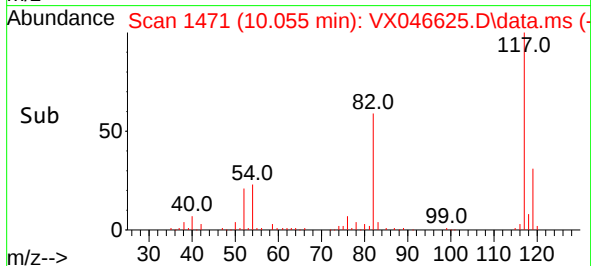
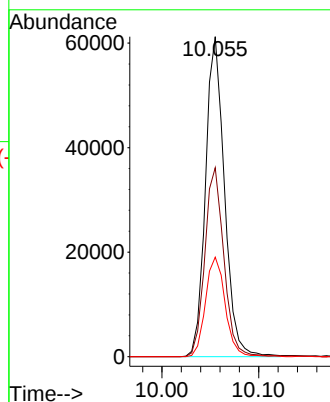
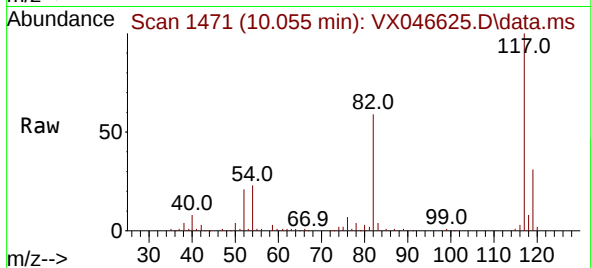
Tgt Ion:	117	Resp:	83680
Ion Ratio	Lower	Upper	
117	100		
82	59.2	46.5	69.7
119	32.4	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#58

4-Methyl-2-Pentanone

Concen: 4.288 ug/l

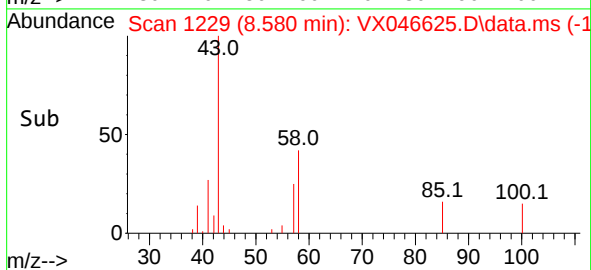
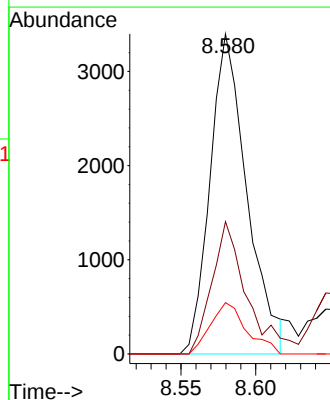
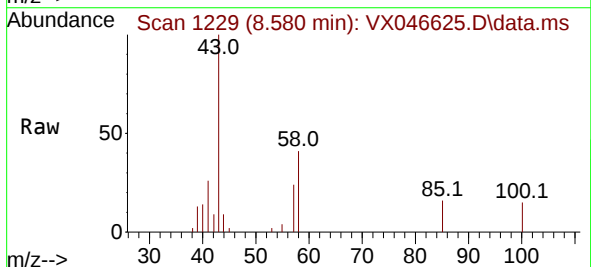
RT: 8.580 min Scan# 1229

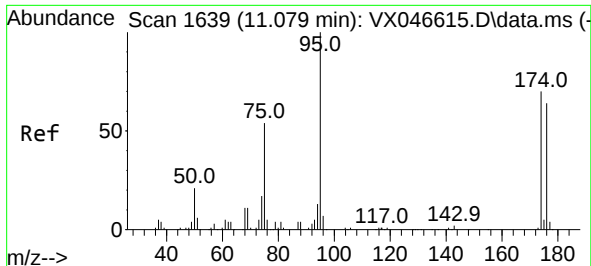
Delta R.T. 0.006 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

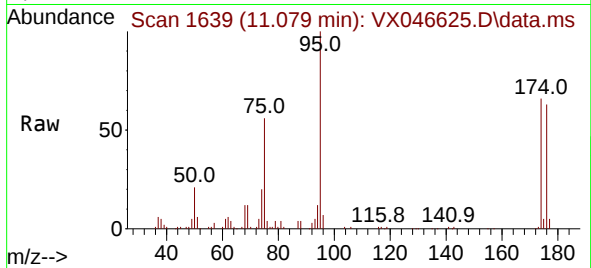
Tgt Ion:	43	Resp:	5836
Ion Ratio	Lower	Upper	
43	100		
58	35.0	29.4	44.2
85	15.7	13.3	19.9





#60
4-Bromofluorobenzene
Concen: 28.482 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

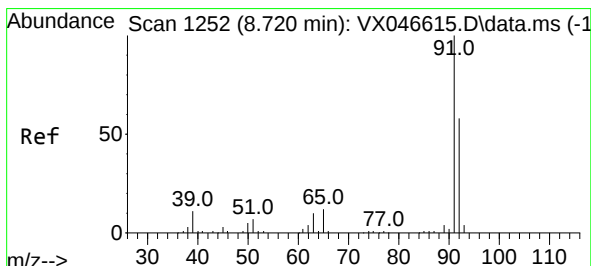
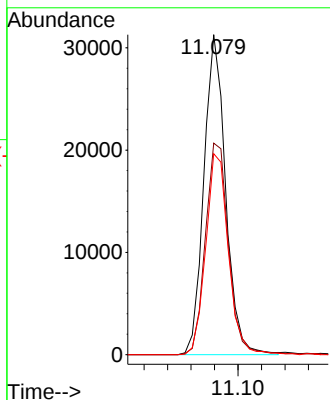
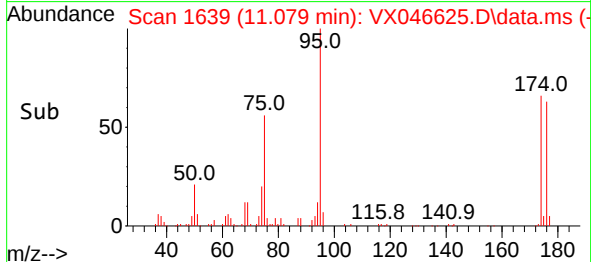
Instrument :
MSVOA_X
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002-35TH-AVE(JUNE)



Tgt Ion: 95 Resp: 40172
Ion Ratio Lower Upper
95 100
174 70.1 56.0 84.0
176 65.7 52.2 78.4

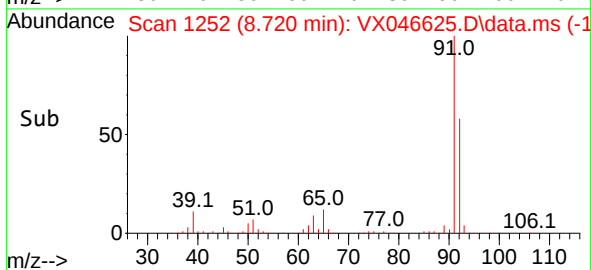
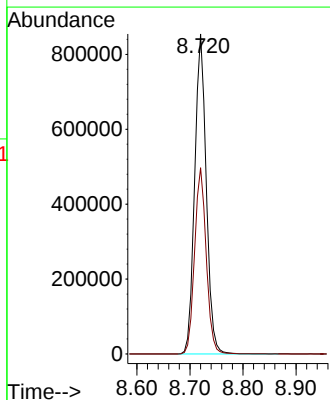
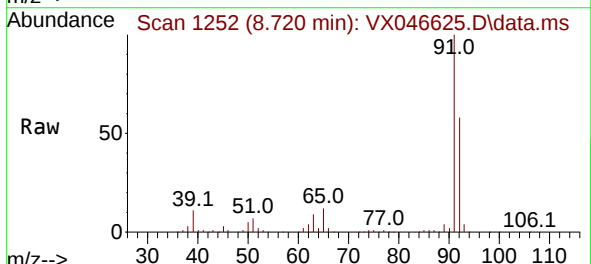
Manual Integrations
APPROVED

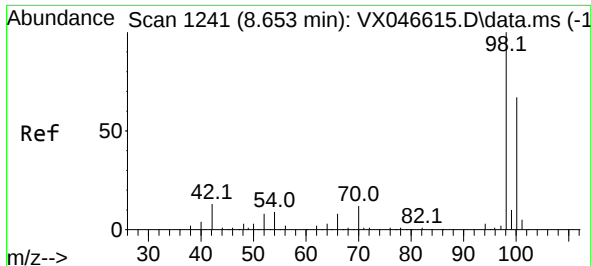
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#62
Toluene
Concen: 285.183 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

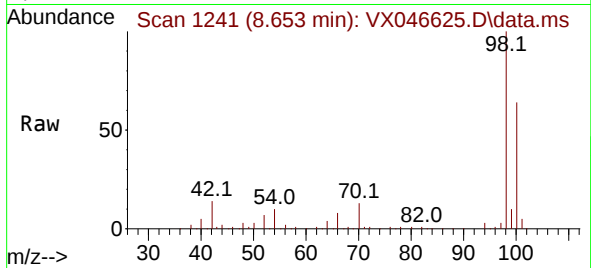
Tgt Ion: 91 Resp: 1293292
Ion Ratio Lower Upper
91 100
92 58.5 46.8 70.2





#63
Toluene-d8
Concen: 29.960 ug/l
RT: 8.653 min Scan# 11198
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

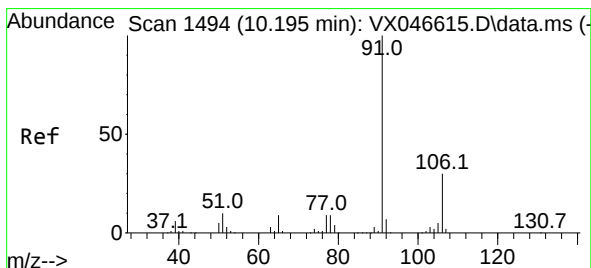
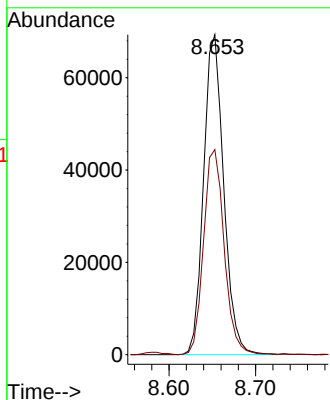
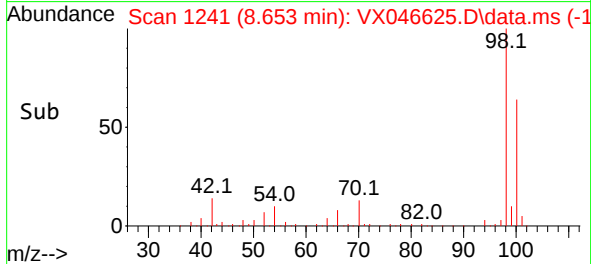
Instrument :
MSVOA_X
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002-35TH-AVE(JUNE)



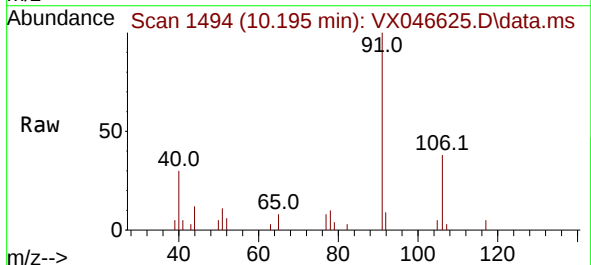
Tgt Ion: 98 Resp: 11198
Ion Ratio Lower Upper
98 100
100 65.6 52.6 79.0

Manual Integrations
APPROVED

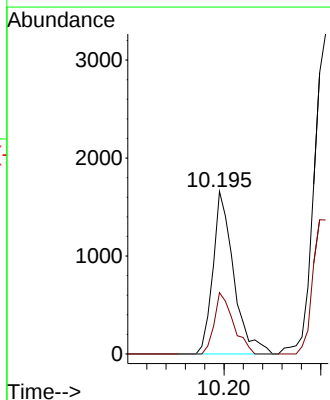
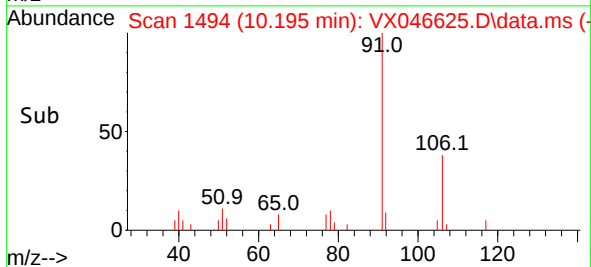
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

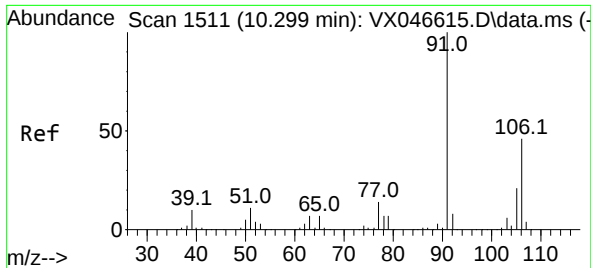


#66
Ethyl Benzene
Concen: 0.476 ug/l m
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54



Tgt Ion: 91 Resp: 2463
Ion Ratio Lower Upper
91 100
106 37.7 23.9 35.9#





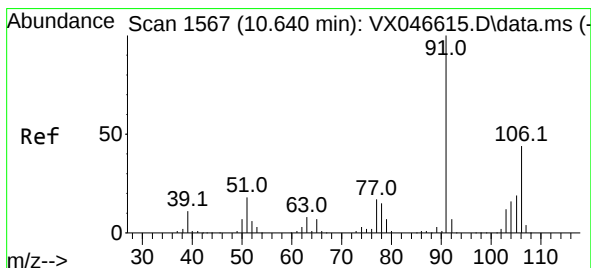
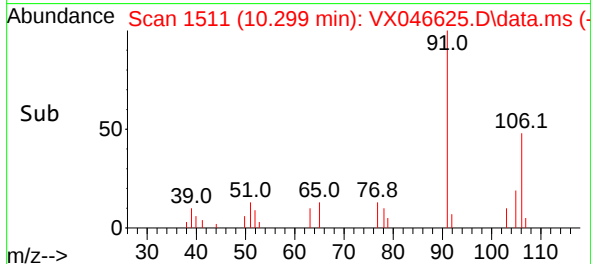
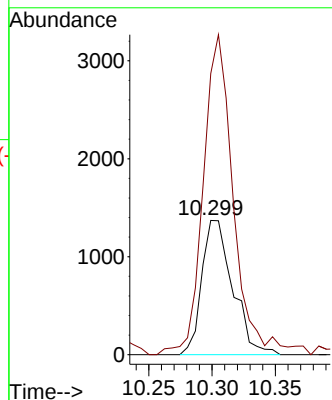
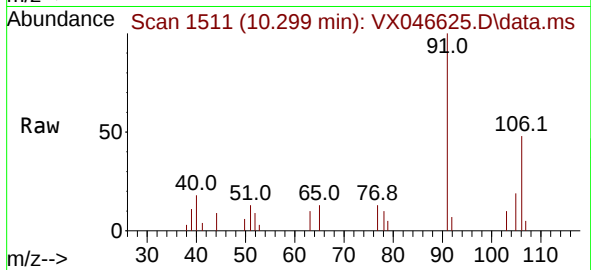
#67
m/p-Xylenes
Concen: 1.221 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

Tgt Ion:106 Resp: 2338
Ion Ratio Lower Upper
106 100
91 225.1 171.5 257.3

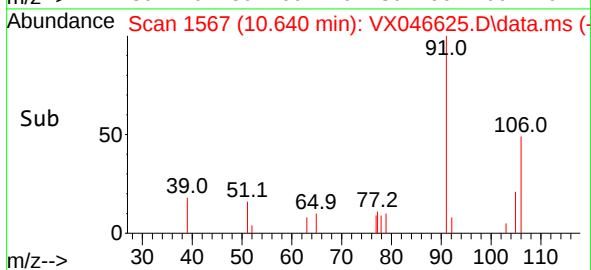
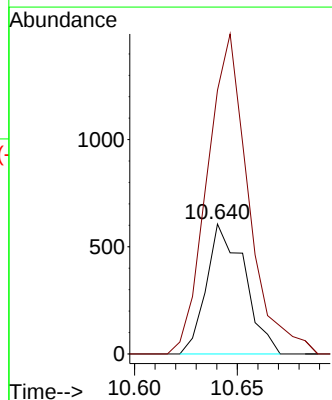
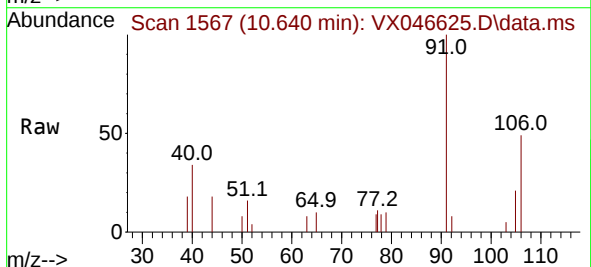
Manual Integrations
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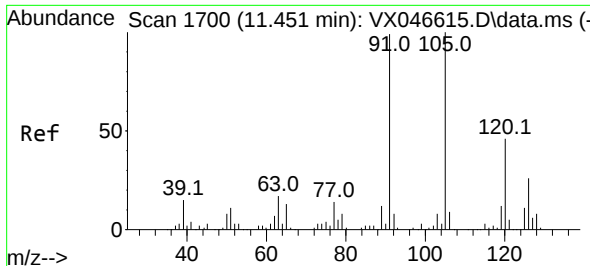
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#68
o-Xylene
Concen: 0.426 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion:106 Resp: 785
Ion Ratio Lower Upper
106 100
91 265.7 112.3 336.9





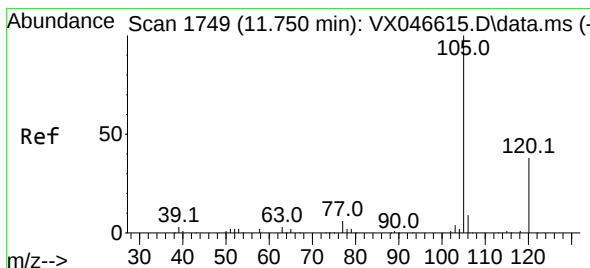
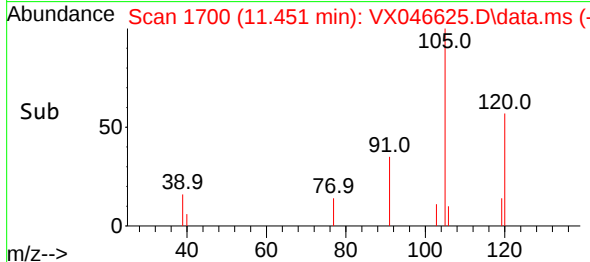
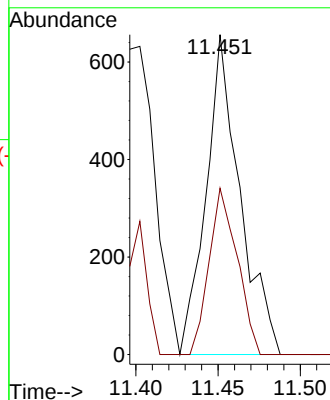
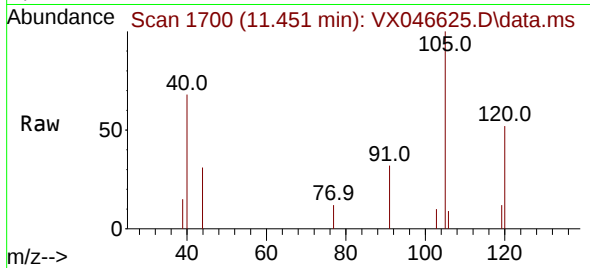
#76
 1,3,5-Trimethylbenzene
 Concen: 0.229 ug/l
 RT: 11.451 min Scan# 1700
 Delta R.T. 0.000 min
 Lab File: VX046625.D
 Acq: 11 Jun 2025 00:54

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)

Tgt Ion:105 Resp: 94
 Ion Ratio Lower Upper
 105 100
 120 43.3 0.0 92.8

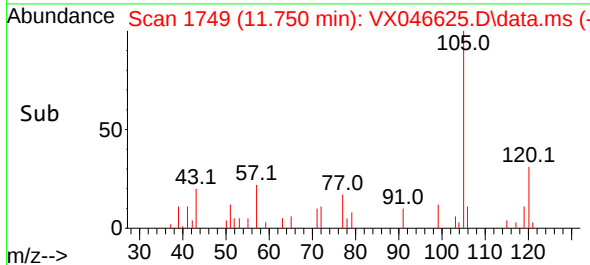
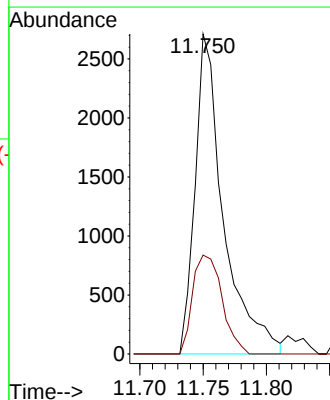
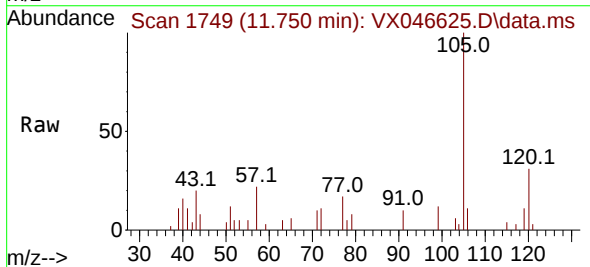
Manual Integrations
 APPROVED

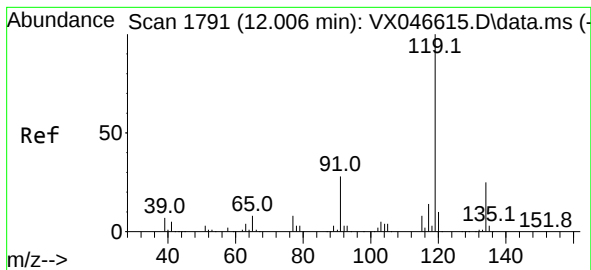
Reviewed By :John Carlone 06/11/2025
 Supervised By :Mahesh Dadoda 06/11/2025



#80
 1,2,4-Trimethylbenzene
 Concen: 1.044 ug/l
 RT: 11.750 min Scan# 1749
 Delta R.T. 0.000 min
 Lab File: VX046625.D
 Acq: 11 Jun 2025 00:54

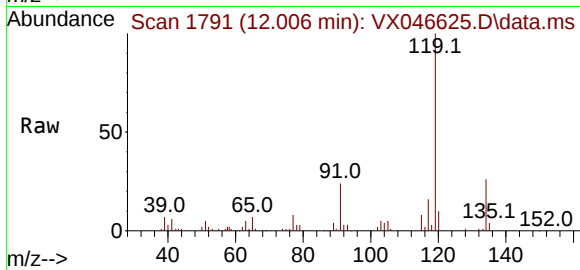
Tgt Ion:105 Resp: 4241
 Ion Ratio Lower Upper
 105 100
 120 31.9 0.0 89.6





#82
p-Isopropyltoluene
Concen: 4.684 ug/l
RT: 12.006 min Scan# 119
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

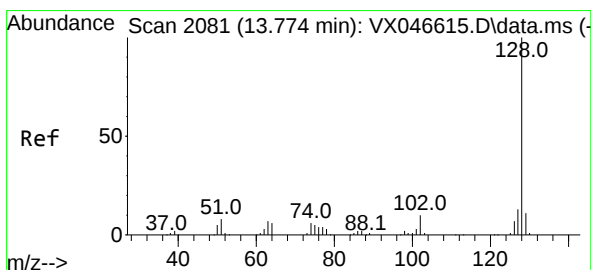
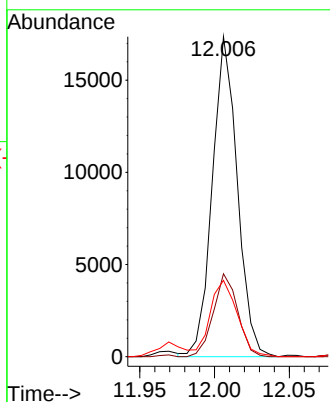
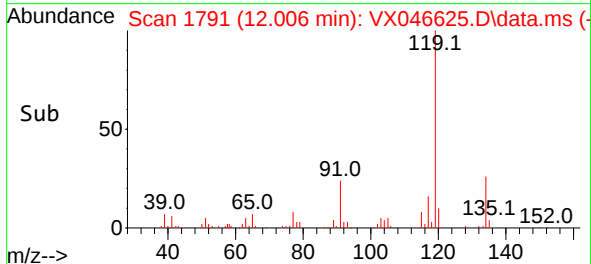
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)



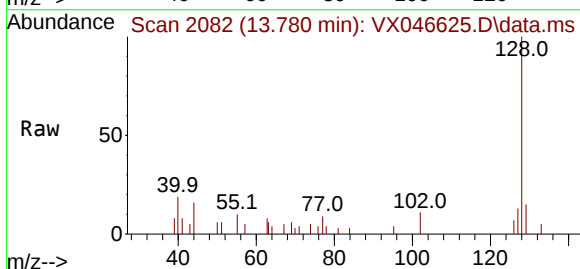
Tgt Ion:119 Resp: 20174
Ion Ratio Lower Upper
119 100
134 25.1 0.0 50.0
91 26.2 0.0 54.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#91
Naphthalene
Concen: 0.591 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54



Tgt Ion:128 Resp: 2566
Ion Ratio Lower Upper
128 100
127 14.8 10.2 15.4
129 10.0 8.8 13.2

