

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122024\
 Data File : VU062555.D
 Acq On : 21 Dec 2024 05:23
 Operator : MD/SY
 Sample : P5344-12
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 COCH0

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
 Supervised By : Mahesh Dadoda 12/24/2024

Quant Time: Dec 21 05:35:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR120924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Dec 20 23:41:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.541	114	99197m	5.000	ug/L	0.30
28) Chlorobenzene-d5	9.457	117	132532	5.000	ug/L	0.05
58) 1,4-Dichlorobenzene-d4	11.814	152	74122	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	27399	4.095	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.800%
7) Chloroethane-d5	1.914	69	22924m	4.817	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.400%
11) 1,1-Dichloroethene-d2	2.567	65	14526m	4.563	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.200%
20) 2-Butanone-d5	4.650	46	61715m	48.128	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.260%
24) Chloroform-d	5.100	84	102831m	7.101	ug/L	0.05
Spiked Amount	5.000	Range	70 - 125	Recovery	=	142.000%#
26) 1,2-Dichloroethane-d4	5.791	65	52974m	7.439	ug/L	0.10
Spiked Amount	5.000	Range	70 - 130	Recovery	=	148.800%#
32) Benzene-d6	5.827	84	155690m	4.079	ug/L	0.11
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.600%
36) 1,2-Dichloropropane-d6	0.000	67	0d	0.000	ug/L	
Spiked Amount	5.000	Range	60 - 140	Recovery	=	0.000%#
41) Toluene-d8	7.994	98	138245	3.834	ug/L	0.11
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.600%
43) trans-1,3-Dichloroprop...	8.258	79	21709	4.516	ug/L	0.08
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.400%
46) 2-Hexanone-d5	8.692	63	56459	38.928	ug/L	0.07
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.860%
56) 1,1,2,2-Tetrachloroeth...	10.766	84	34228	4.027	ug/L	0.02
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.600%
66) 1,2-Dichlorobenzene-d4	12.193	152	55689	4.077	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	81.600%
Target Compounds						
5) Vinyl chloride	1.599	62	66090	8.715	ug/L	95
9) Trichlorofluoromethane	2.126	101	60419837m	4590.487	ug/L	
12) 1,1-Dichloroethene	2.583	96	472375	70.528	ug/L #	78
16) Methylene chloride	3.046	84	1250412	177.847	ug/L	87
18) trans-1,2-Dichloroethene	3.357	96	430743m	62.594	ug/L	
19) 1,1-Dichloroethane	3.888	63	51288m	4.066	ug/L	
22) cis-1,2-Dichloroethene	4.682	96	3357776m	435.318	ug/L	
25) Chloroform	5.113	83	689203m	48.507	ug/L	
27) 1,2-Dichloroethane	5.827	62	328835m	36.420	ug/L	
29) 1,1,1-Trichloroethane	5.364	97	54118m	2.903	ug/L	
31) Carbon tetrachloride	5.576	117	208028m	12.168	ug/L	
34) Trichloroethene	6.537	95	241663488m	20771.996	ug/L	
38) Bromodichloromethane	7.271	83	11400	0.808	ug/L	93
40) 4-Methyl-2-pentanone	7.888	43	142801	30.464	ug/L #	93
42) Toluene	8.065	91	23420700	528.833	ug/L	96
45) 1,1,2-Trichloroethane	8.451	97	55771m	7.386	ug/L	
47) Tetrachloroethene	8.611	164	38490543m	4284.948	ug/L	
51) Chlorobenzene	9.486	112	580114	20.443	ug/L	99
52) Ethylbenzene	9.605	91	1954110	39.355	ug/L	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.724	106	2714063	148.046	ug/L	93
54) o-Xylene	10.123	106	1418148	79.538	ug/L	96
60) Isopropylbenzene	10.499	105	478679	8.940	ug/L	99
62) 1,3,5-Trimethylbenzene	11.094	105	1247417	27.529	ug/L	98
63) 1,2,4-Trimethylbenzene	11.473	105	4662358	105.017	ug/L	98
65) 1,4-Dichlorobenzene	11.839	146	5353	0.216	ug/L	90
67) 1,2-Dichlorobenzene	12.212	146	15907	0.700	ug/L	96

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

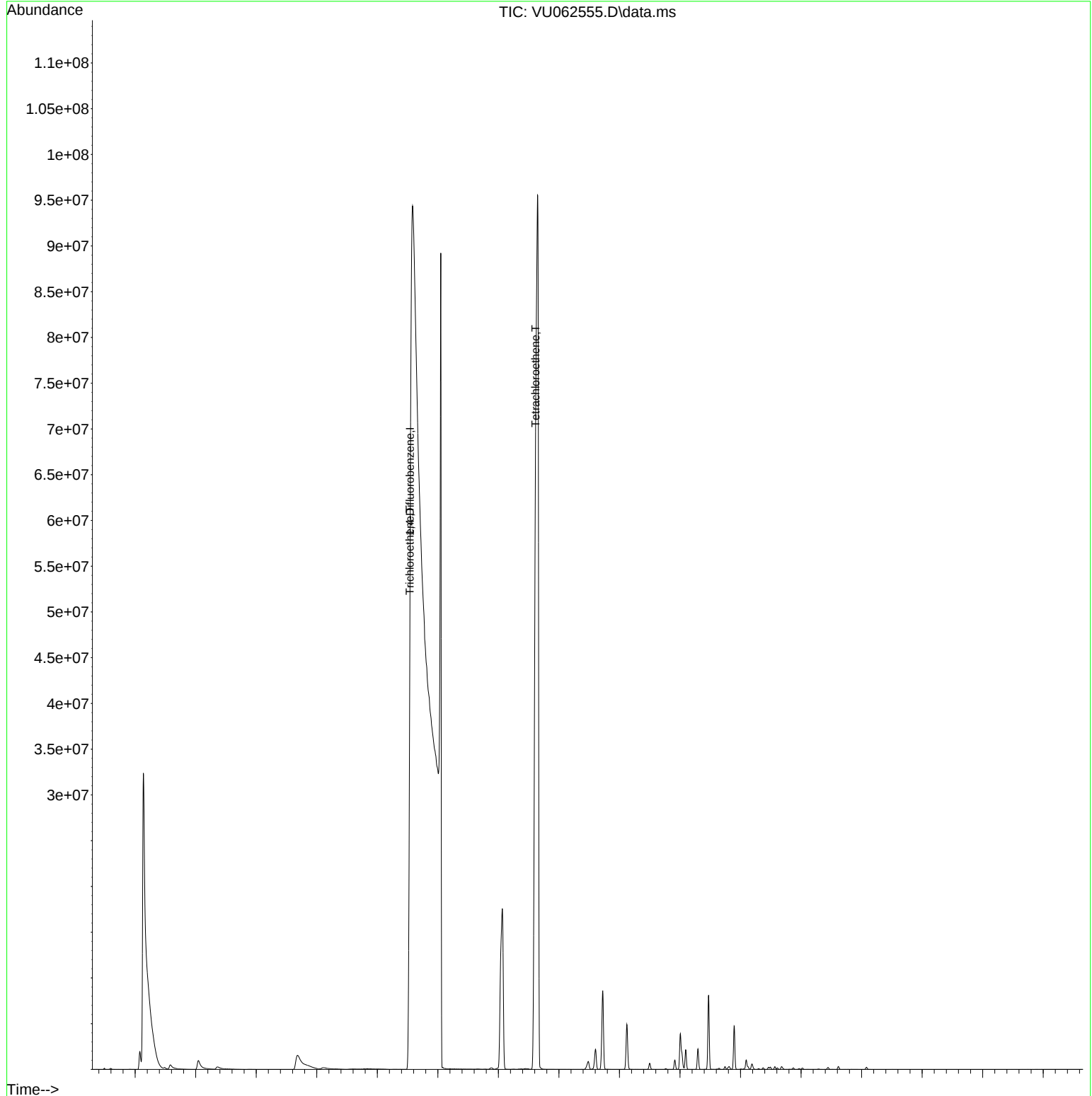
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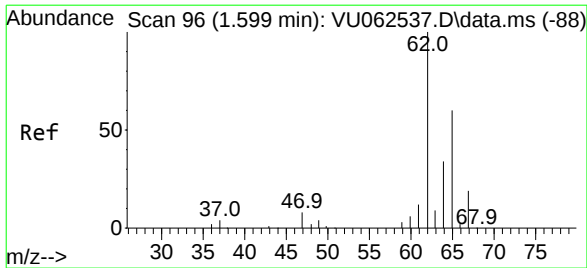
Instrument :
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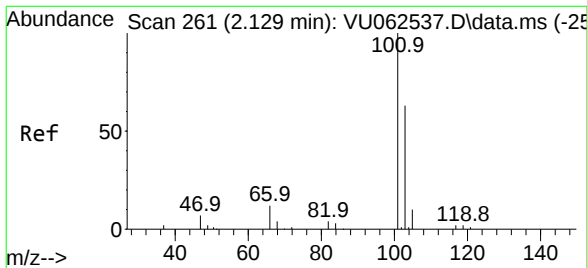
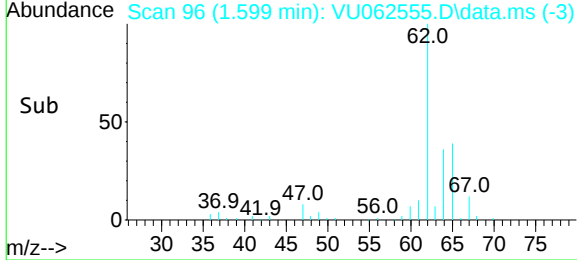
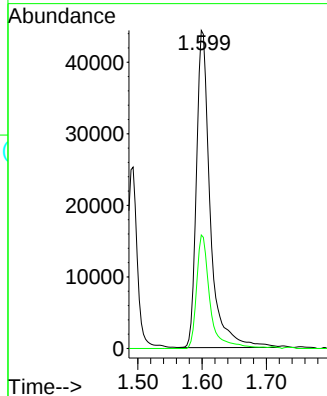
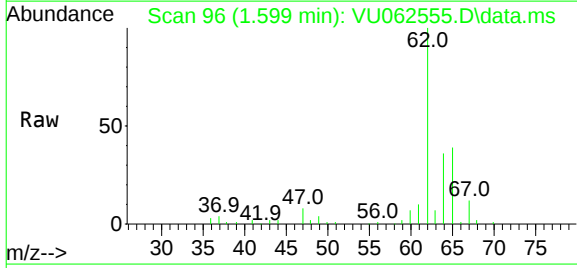
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 Vinyl chloride
 Concen: 8.715 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VU062555.D
 Acq: 21 Dec 2024 05:23

Instrument :
 MSVOA_U
 ClientSampleId :
 C0CH0

Tgt Ion: 62 Resp: 66090
 Ion Ratio Lower Upper
 62 100
 64 35.7 23.1 42.9

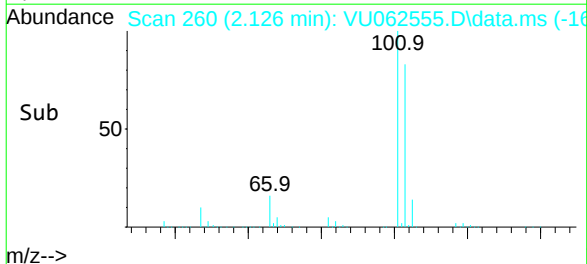
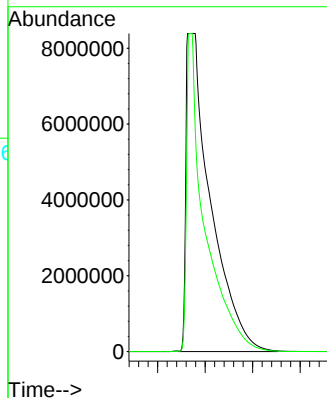
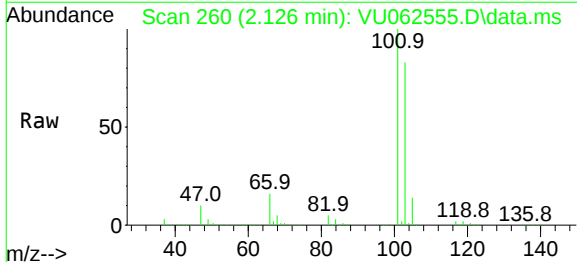
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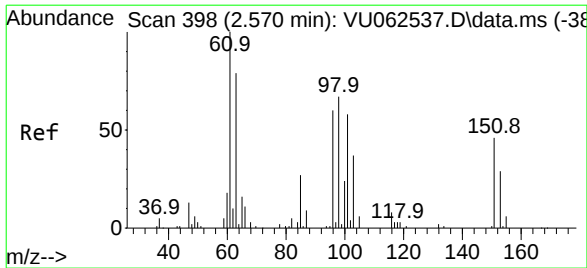
Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/24/2024



#9
 Trichlorofluoromethane
 Concen: 4590.487 ug/L m
 RT: 2.126 min Scan# 260
 Delta R.T. -0.003 min
 Lab File: VU062555.D
 Acq: 21 Dec 2024 05:23

Tgt Ion:101 Resp:60419837
 Ion Ratio Lower Upper
 101 100
 103 0.0 50.6 75.8#





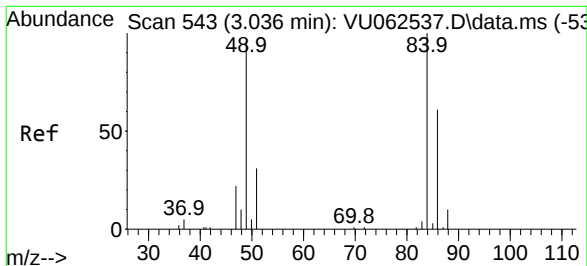
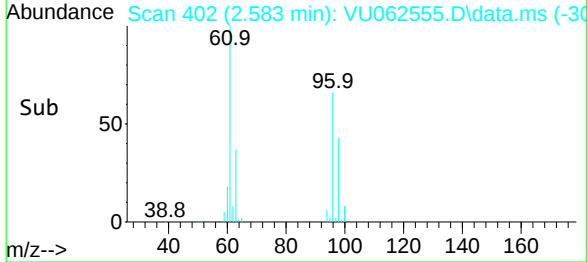
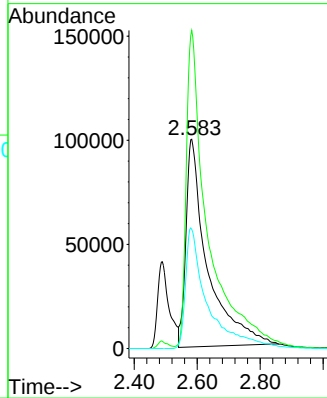
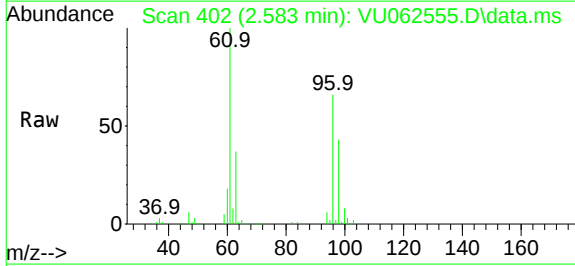
#12
1,1-Dichloroethene
Concen: 70.528 ug/L
RT: 2.583 min Scan# 40
Delta R.T. 0.013 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

Instrument :
MSVOA_U
ClientSampleId :
C0CH0

Tgt Ion: 96 Resp: 472375
Ion Ratio Lower Upper
96 100
61 152.0 119.6 222.2
63 56.9 65.0 120.6

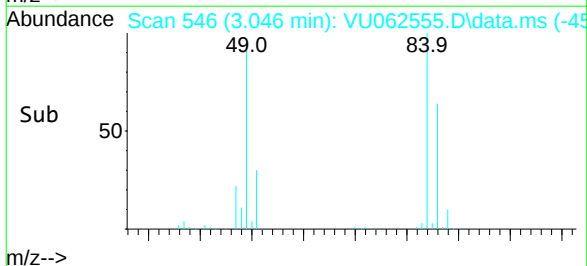
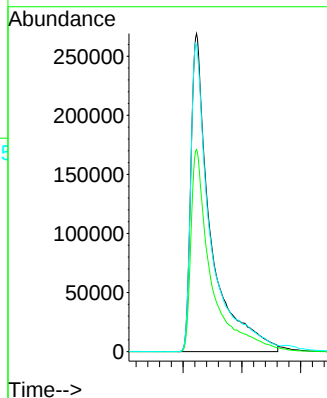
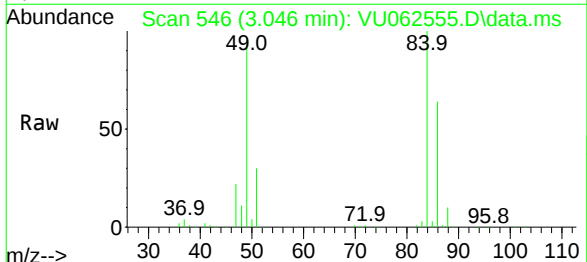
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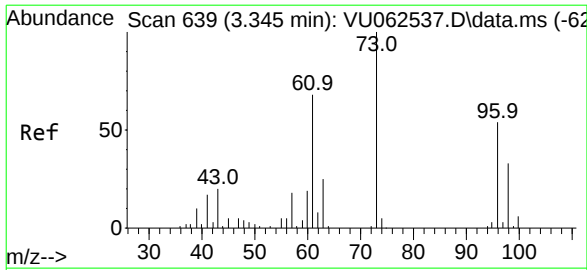
Reviewed By :Semsettin Yesilyurt 12/23/2024
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#16
Methylene chloride
Concen: 177.847 ug/L
RT: 3.046 min Scan# 546
Delta R.T. 0.010 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

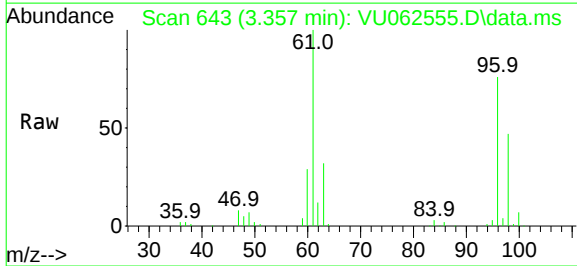
Tgt Ion: 84 Resp: 1250412
Ion Ratio Lower Upper
84 100
86 63.5 43.5 80.7
49 96.5 81.9 152.1





#18
trans-1,2-Dichloroethene
Concen: 62.594 ug/L m
RT: 3.357 min Scan# 64
Delta R.T. 0.013 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

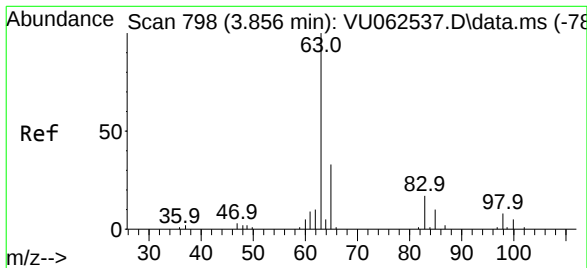
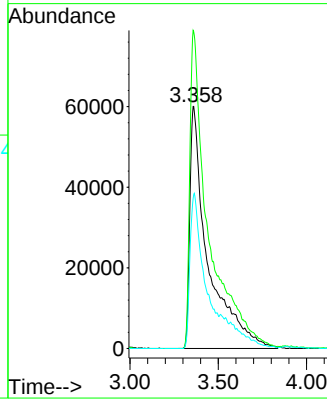
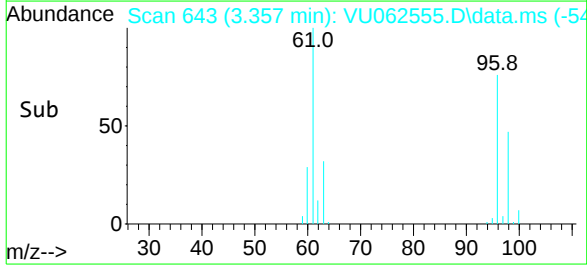
Instrument :
MSVOA_U
ClientSampleId :
C0CH0



Tgt Ion: 96 Resp: 430743
Ion Ratio Lower Upper
96 100
61 131.4 104.2 193.4
98 61.9 45.7 84.9

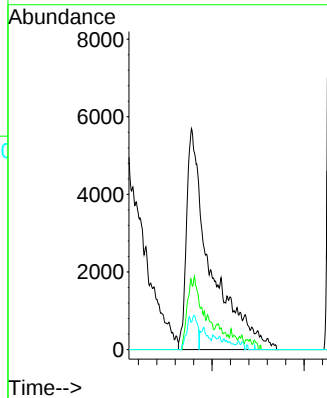
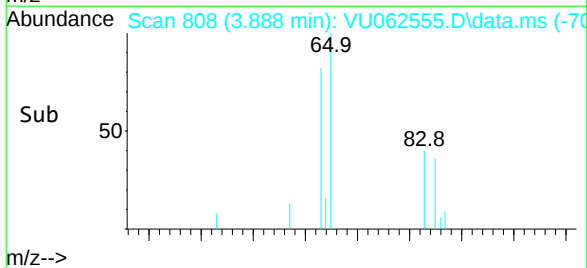
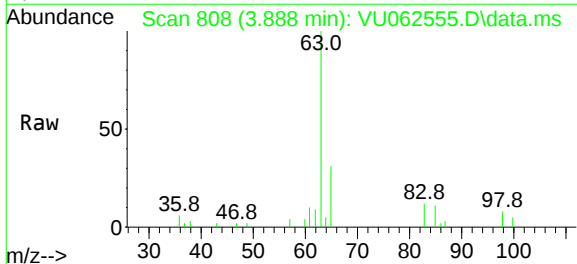
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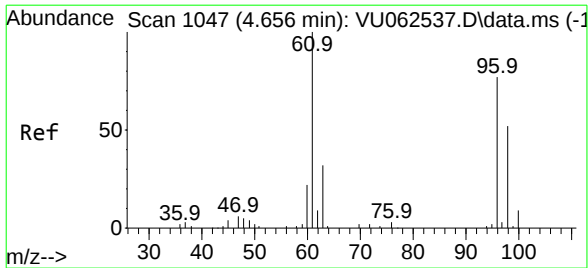
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#19
1,1-Dichloroethane
Concen: 4.066 ug/L m
RT: 3.888 min Scan# 808
Delta R.T. 0.032 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

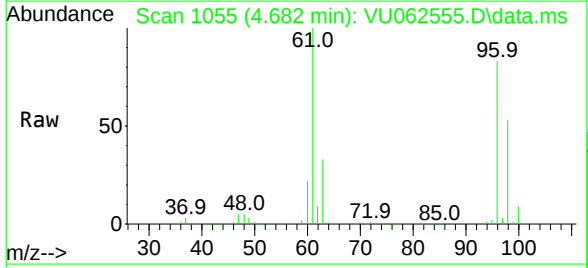
Tgt Ion: 63 Resp: 51288
Ion Ratio Lower Upper
63 100
65 30.7 22.7 42.3
83 12.4 9.9 18.3





#22
cis-1,2-Dichloroethene
Concen: 435.318 ug/L m
RT: 4.682 min Scan# 1047
Delta R.T. 0.026 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

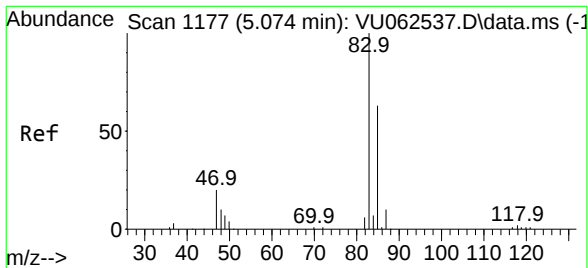
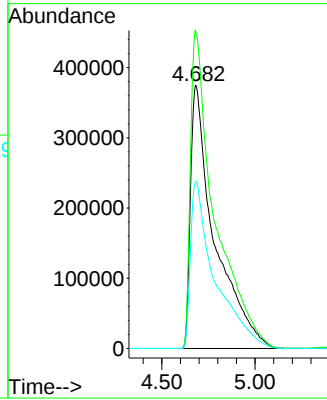
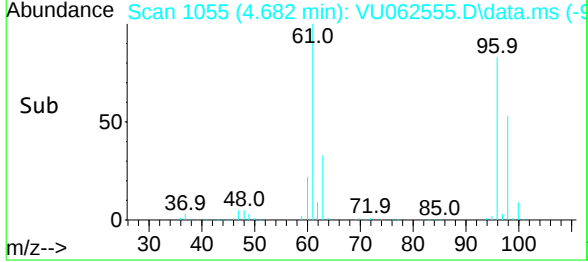
Instrument :
MSVOA_U
ClientSampleId :
C0CH0



Tgt Ion: 96 Resp: 3357776
Ion Ratio Lower Upper
96 100
61 120.5 92.0 170.8
98 63.4 44.5 82.7

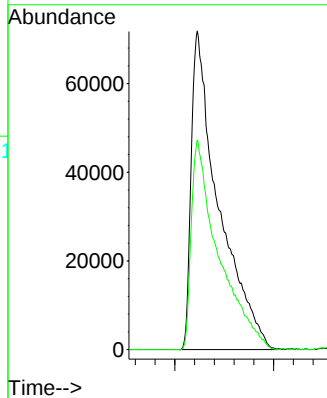
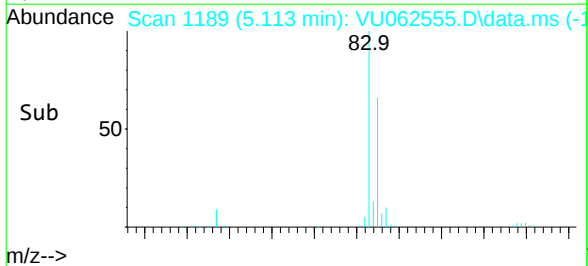
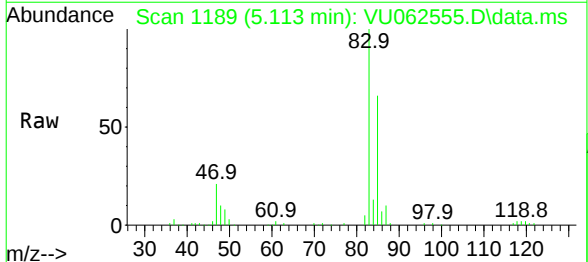
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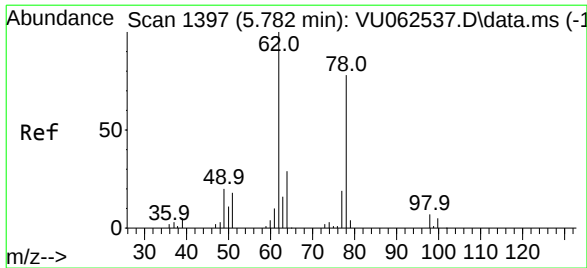
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#25
Chloroform
Concen: 48.507 ug/L m
RT: 5.113 min Scan# 1189
Delta R.T. 0.039 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

Tgt Ion: 83 Resp: 689203
Ion Ratio Lower Upper
83 100
85 65.8 45.4 84.2





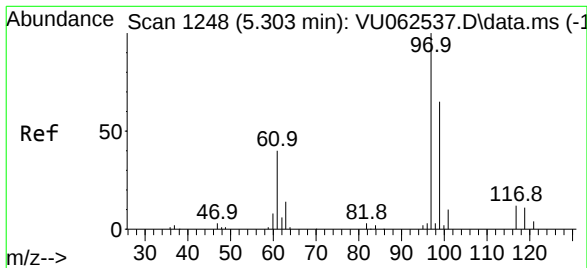
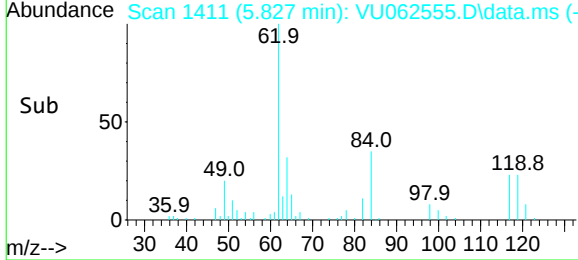
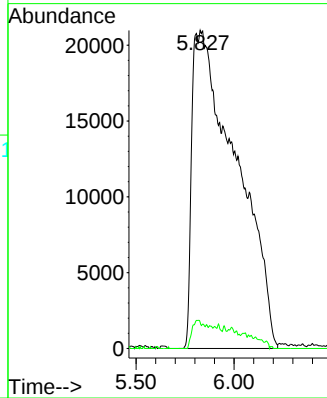
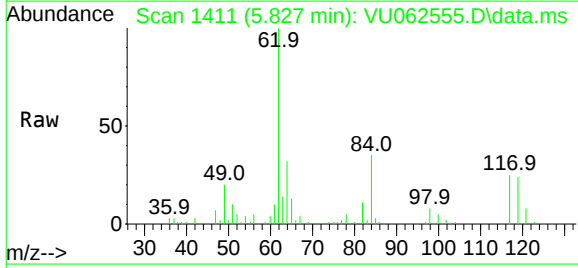
#27
 1,2-Dichloroethane
 Concen: 36.420 ug/L m
 RT: 5.827 min Scan# 1411
 Delta R.T. 0.045 min
 Lab File: VU062555.D
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Instrument :
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Tgt Ion: 62 Resp: 328835
 Ion Ratio Lower Upper
 62 100
 98 8.2 7.4 11.0

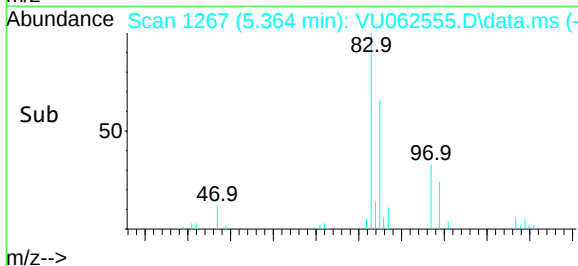
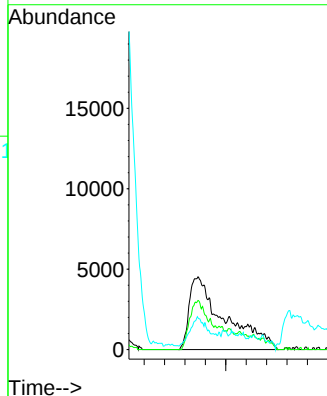
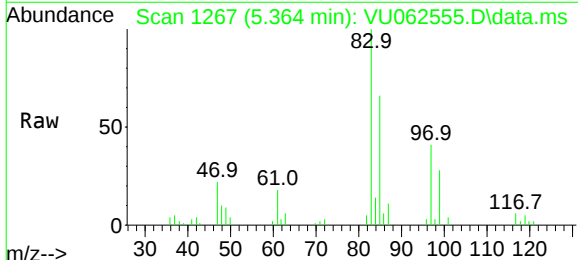
Manual Integrations
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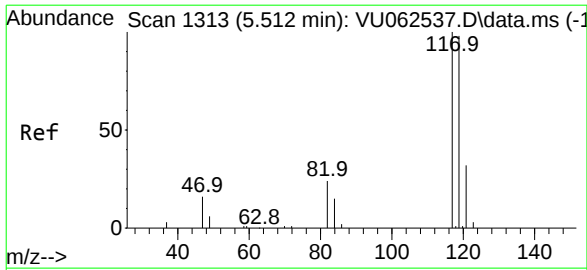
Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/24/2024



#29
 1,1,1-Trichloroethane
 Concen: 2.903 ug/L m
 RT: 5.364 min Scan# 1267
 Delta R.T. 0.061 min
 Lab File: VU062555.D
 Acq: 21 Dec 2024 05:23

Tgt Ion: 97 Resp: 54118
 Ion Ratio Lower Upper
 97 100
 99 21.2 51.4 77.2#
 61 13.7 37.8 56.6#





#31

Carbon tetrachloride

Concen: 12.168 ug/L m

RT: 5.576 min Scan# 1313

Delta R.T. 0.064 min

Lab File: VU062555.D

Acq: 21 Dec 2024 05:23

Instrument :

MSVOA_U

ClientSampleId :

COCHO

Tgt Ion:117 Resp: 208028

Ion Ratio Lower Upper

117 100

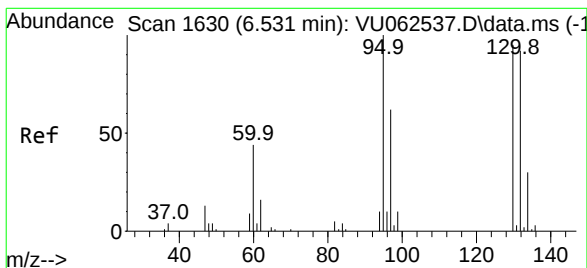
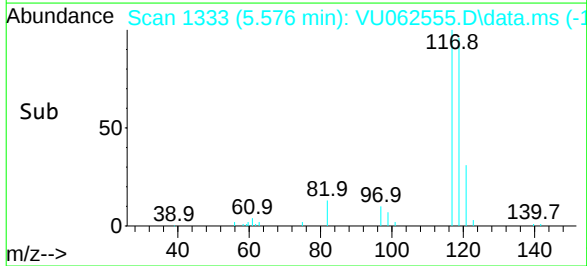
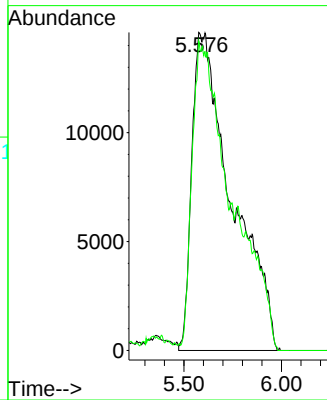
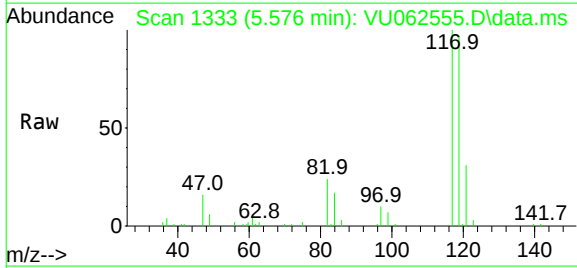
119 20.8 77.5 116.3#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#34

Trichloroethene

Concen: 20771.996 ug/L m

RT: 6.537 min Scan# 1632

Delta R.T. 0.006 min

Lab File: VU062555.D

Acq: 21 Dec 2024 05:23

Tgt Ion: 95 Resp:241663488

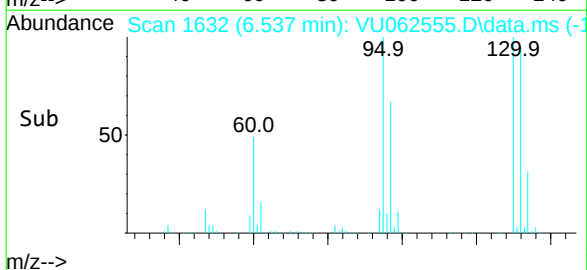
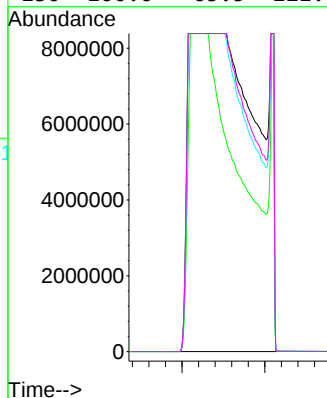
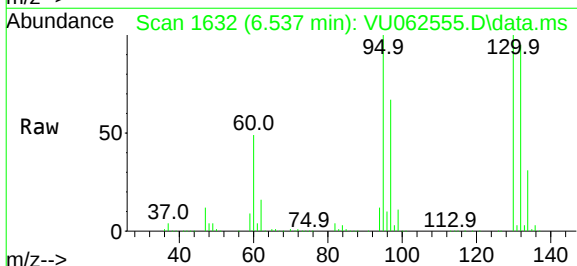
Ion Ratio Lower Upper

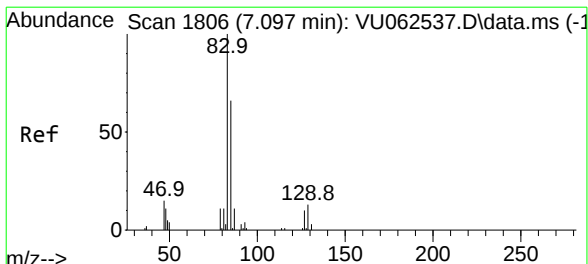
95 100

97 66.6 45.9 85.3

132 95.4 63.8 118.4

130 100.0 65.5 121.7





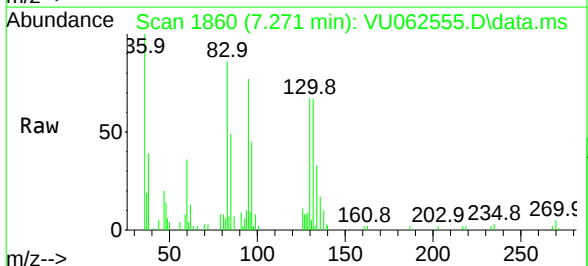
#38
 Bromodichloromethane
 Concen: 0.808 ug/L
 RT: 7.271 min Scan# 1806
 Delta R.T. 0.174 min
 Lab File: VU062555.D
 Acq: 21 Dec 2024 05:23

Instrument :

MSVOA_U

ClientSampleId :

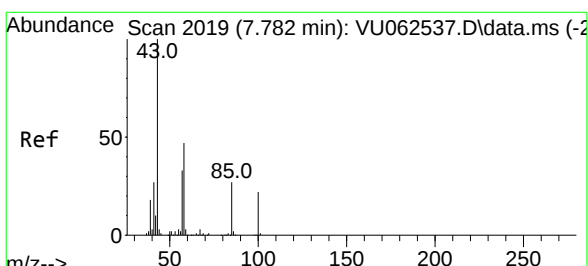
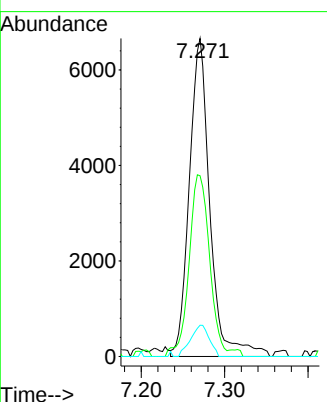
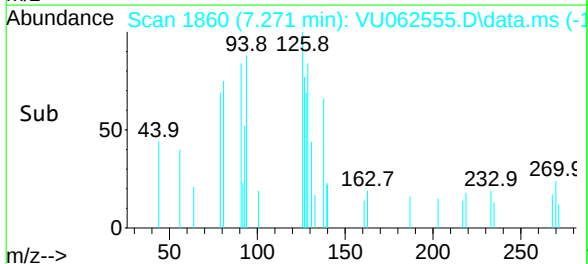
COCHO



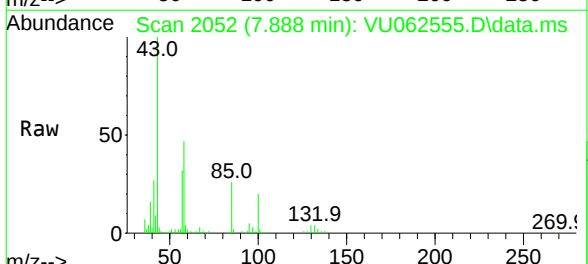
Tgt Ion:	83	Resp:	11400
Ion	Ratio	Lower	Upper
83	100		
85	56.8	44.1	81.9
127	9.8	6.9	10.3

Manual Integrations
 APPROVED

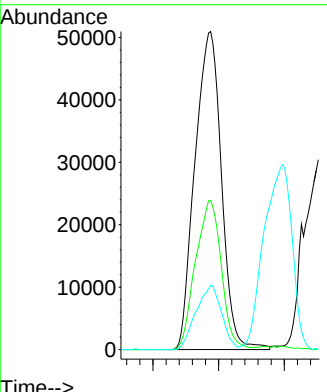
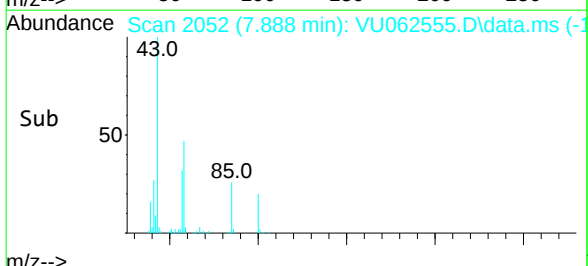
Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/24/2024

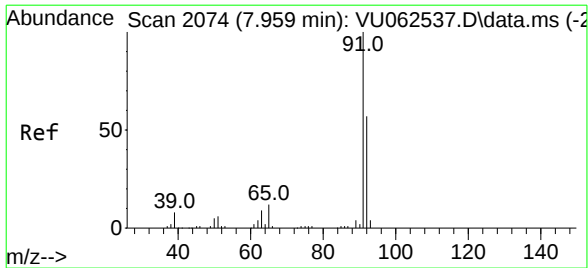


#40
 4-Methyl-2-pentanone
 Concen: 30.464 ug/L
 RT: 7.888 min Scan# 2052
 Delta R.T. 0.106 min
 Lab File: VU062555.D
 Acq: 21 Dec 2024 05:23



Tgt Ion:	43	Resp:	142801
Ion	Ratio	Lower	Upper
43	100		
58	45.5	33.3	49.9
100	19.4	12.4	18.6





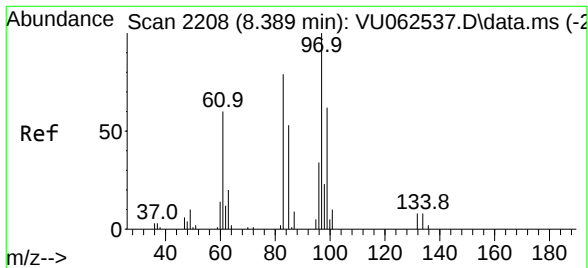
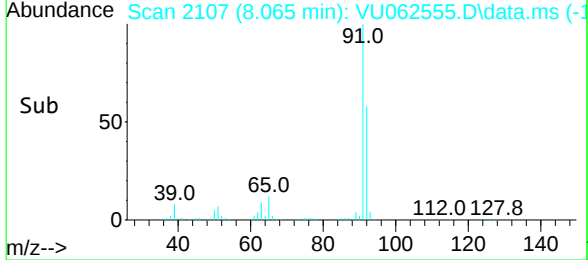
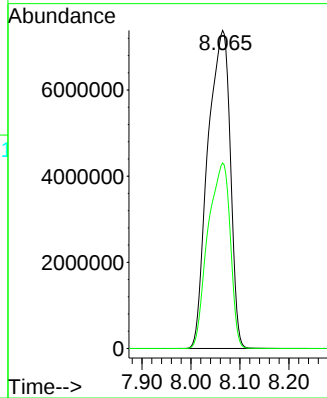
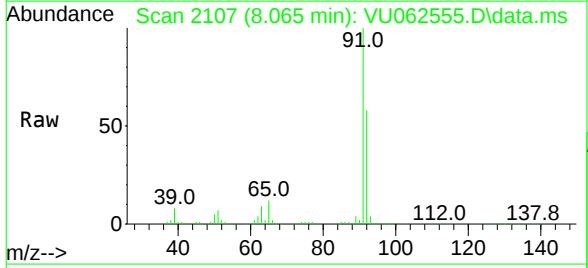
#42
Toluene
Concen: 528.833 ug/L
RT: 8.065 min Scan# 211
Delta R.T. 0.106 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

Instrument :
MSVOA_U
ClientSampleId :
C0CH0

Tgt Ion: 91 Resp:23420700
Ion Ratio Lower Upper
91 100
92 58.3 39.0 72.4

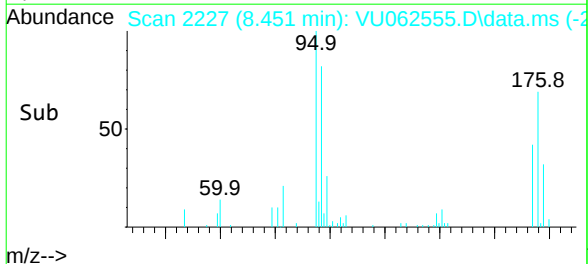
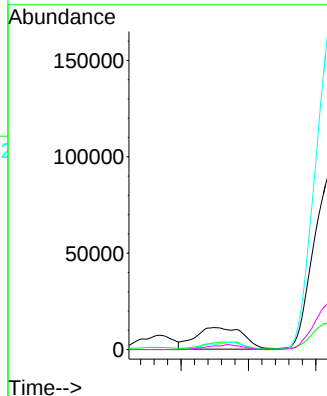
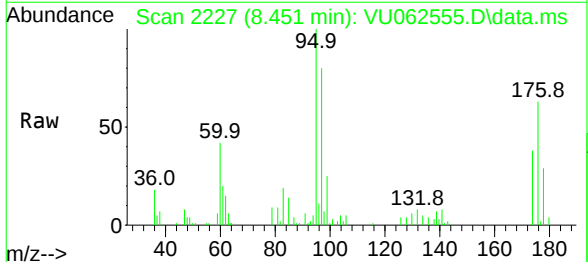
Manual Integrations
APPROVED

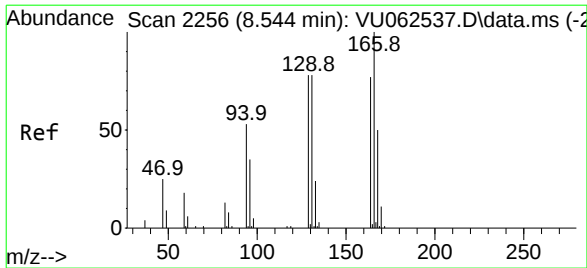
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#45
1,1,2-Trichloroethane
Concen: 7.386 ug/L m
RT: 8.451 min Scan# 2227
Delta R.T. 0.061 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

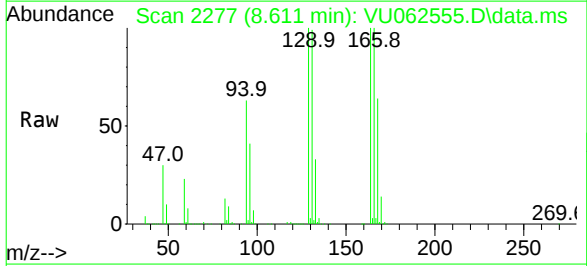
Tgt Ion: 97 Resp: 55771
Ion Ratio Lower Upper
97 100
99 31.1 43.0 79.8#
83 24.0 61.7 114.5#
85 17.1 40.1 74.5#





#47
Tetrachloroethene
Concen: 4284.948 ug/L m
RT: 8.611 min Scan# 2256
Delta R.T. 0.068 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

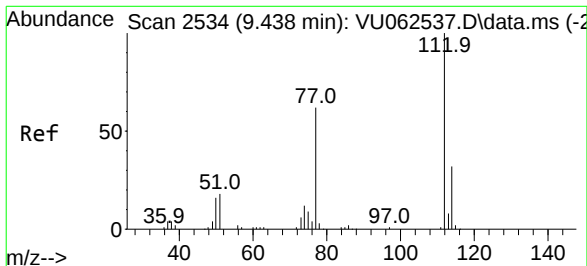
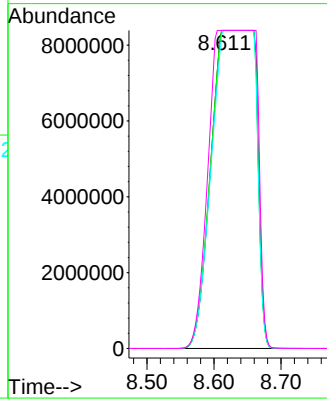
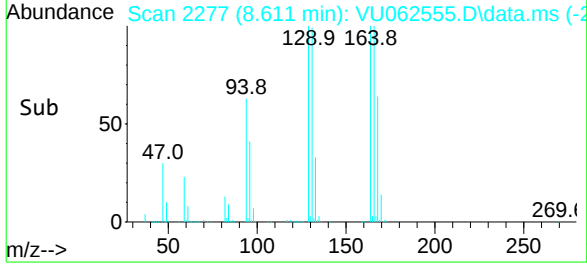
Instrument :
MSVOA_U
ClientSampleId :
C0CH0



Tgt Ion:164 Resp:38490543
Ion Ratio Lower Upper
164 100
129 100.0 73.2 136.0
131 98.6 72.3 134.3
166 100.0 90.2 167.4

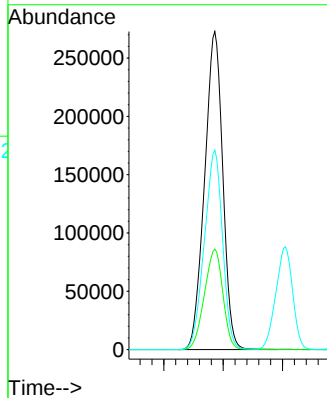
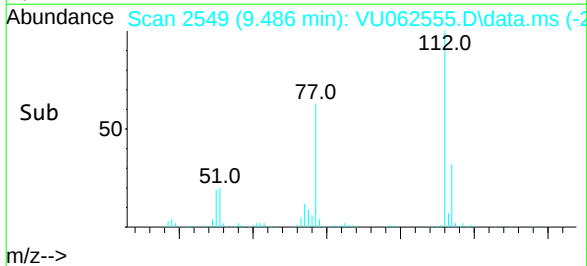
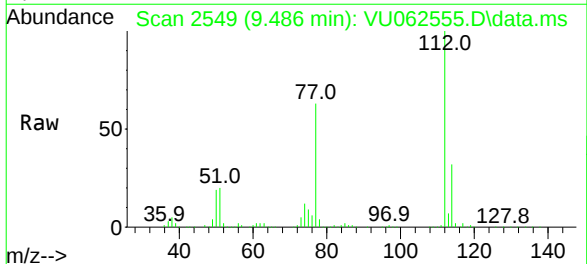
Manual Integrations
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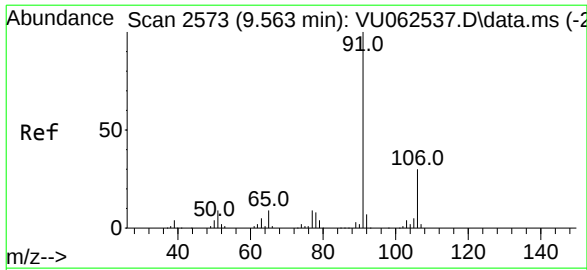
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#51
Chlorobenzene
Concen: 20.443 ug/L
RT: 9.486 min Scan# 2549
Delta R.T. 0.048 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

Tgt Ion:112 Resp: 580114
Ion Ratio Lower Upper
112 100
114 31.6 23.0 42.6
77 62.8 50.5 75.7





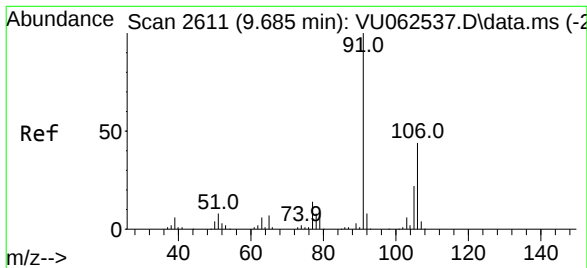
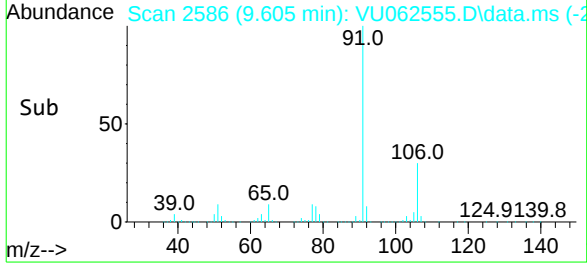
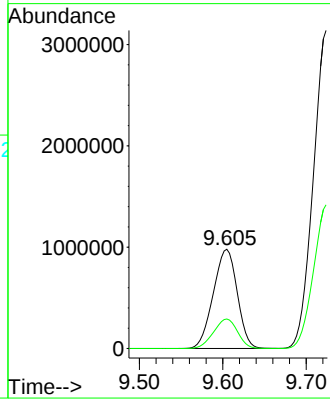
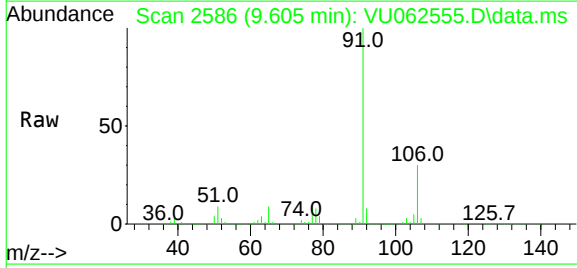
#52
Ethylbenzene
Concen: 39.355 ug/L
RT: 9.605 min Scan# 2573
Delta R.T. 0.042 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

Instrument :
MSVOA_U
ClientSampleId :
C0CH0

Tgt Ion: 91 Resp: 1954110
Ion Ratio Lower Upper
91 100
106 29.7 21.6 40.0

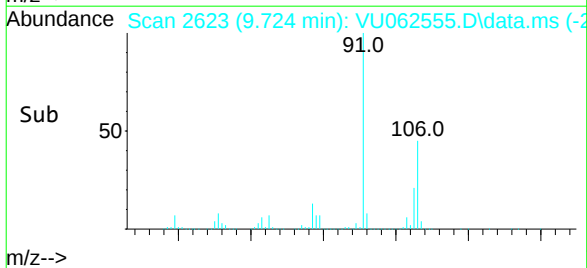
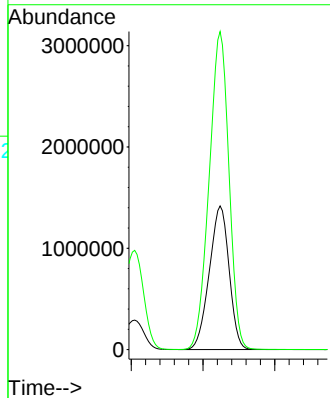
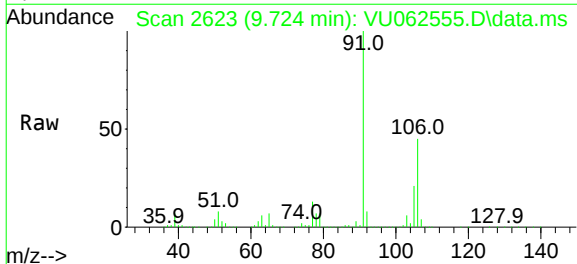
Manual Integrations
APPROVED

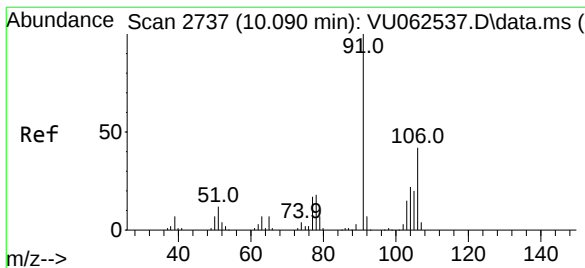
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#53
m,p-Xylene
Concen: 148.046 ug/L
RT: 9.724 min Scan# 2623
Delta R.T. 0.039 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

Tgt Ion:106 Resp: 2714063
Ion Ratio Lower Upper
106 100
91 221.4 147.6 274.0





#54

o-Xylene

Concen: 79.538 ug/L

RT: 10.123 min Scan# 27

Delta R.T. 0.032 min

Lab File: VU062555.D

Acq: 21 Dec 2024 05:23

Instrument :

MSVOA_U

ClientSampleId :

C0CH0

Tgt Ion:106 Resp: 1418148

Ion Ratio Lower Upper

106 100

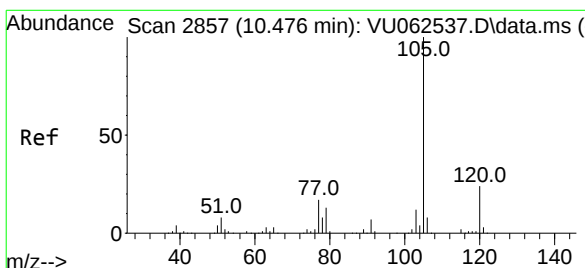
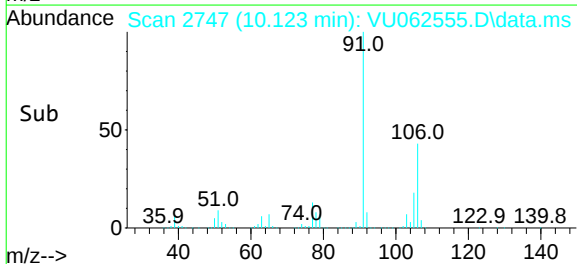
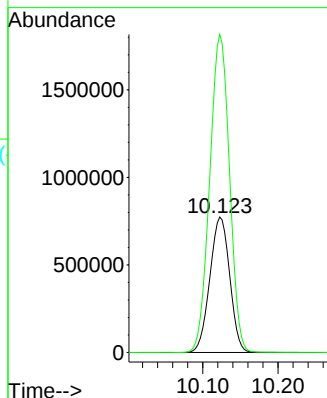
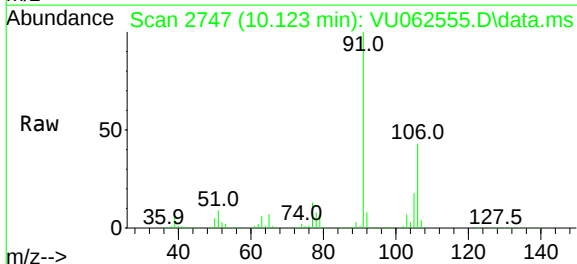
91 234.8 159.8 296.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/24/2024



#60

Isopropylbenzene

Concen: 8.940 ug/L

RT: 10.499 min Scan# 2864

Delta R.T. 0.023 min

Lab File: VU062555.D

Acq: 21 Dec 2024 05:23

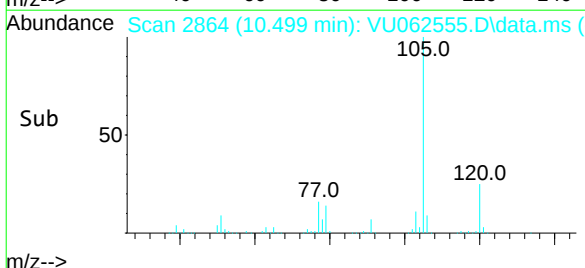
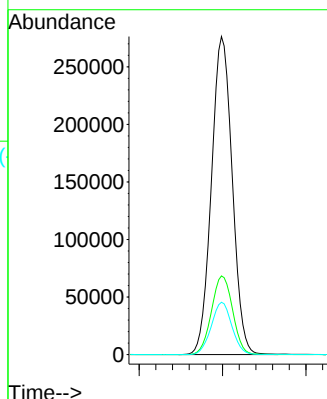
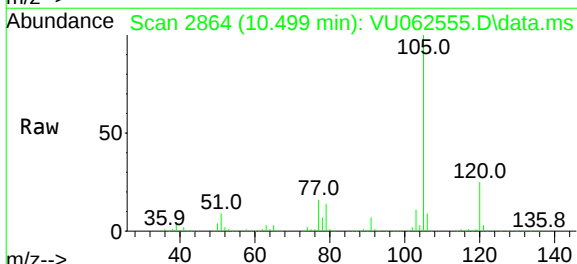
Tgt Ion:105 Resp: 478679

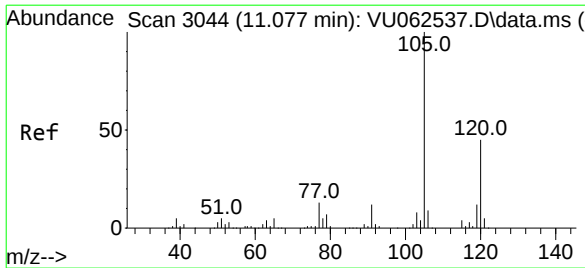
Ion Ratio Lower Upper

105 100

120 25.2 20.6 31.0

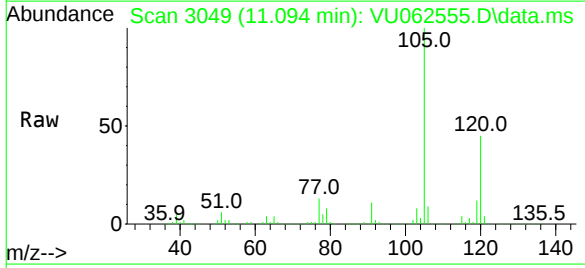
77 16.3 13.0 19.6





#62
1,3,5-Trimethylbenzene
Concen: 27.529 ug/L
RT: 11.094 min Scan# 3049
Delta R.T. 0.016 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

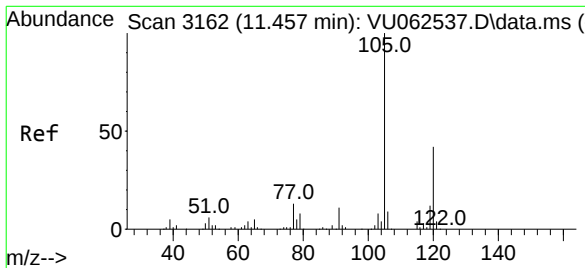
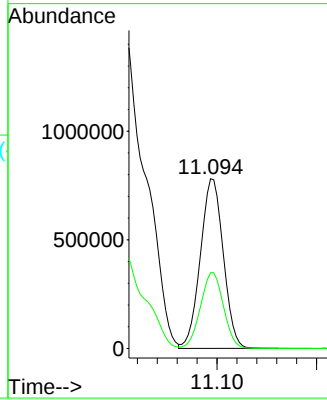
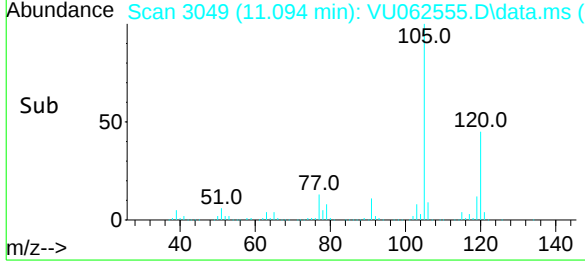
Instrument :
MSVOA_U
ClientSampleId :
C0CH0



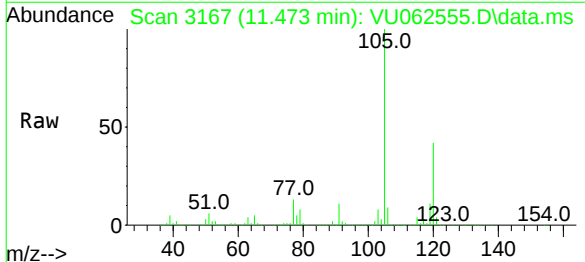
Tgt Ion:105 Resp: 1247417
Ion Ratio Lower Upper
105 100
120 44.7 36.7 55.1

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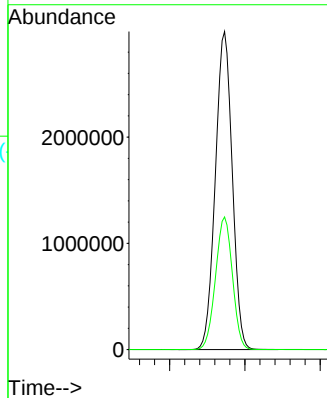
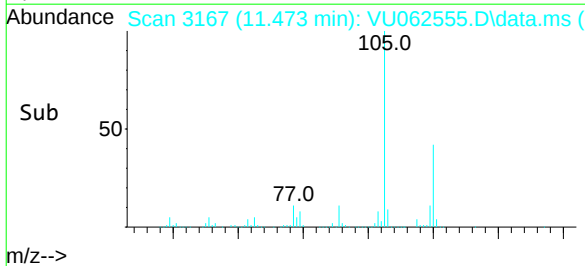
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

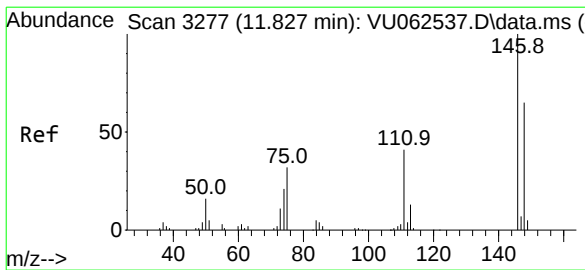


#63
1,2,4-Trimethylbenzene
Concen: 105.017 ug/L
RT: 11.473 min Scan# 3167
Delta R.T. 0.016 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23



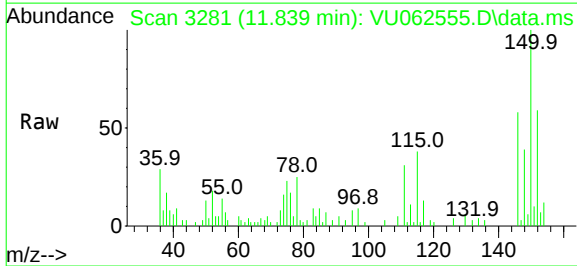
Tgt Ion:105 Resp: 4662358
Ion Ratio Lower Upper
105 100
120 41.8 34.7 52.1





#65
1,4-Dichlorobenzene
Concen: 0.216 ug/L
RT: 11.839 min Scan# 3277
Delta R.T. 0.013 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23

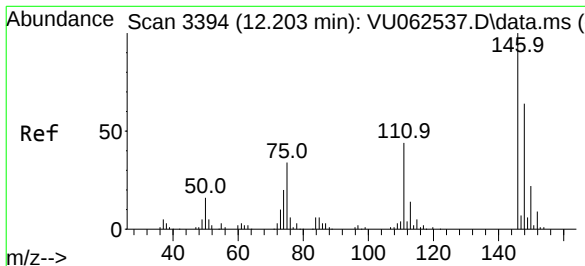
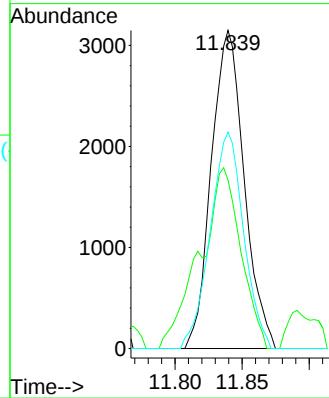
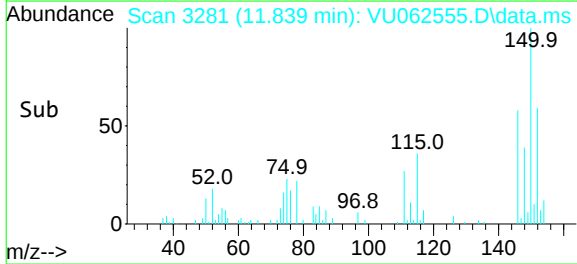
Instrument :
MSVOA_U
ClientSampleId :
C0CH0



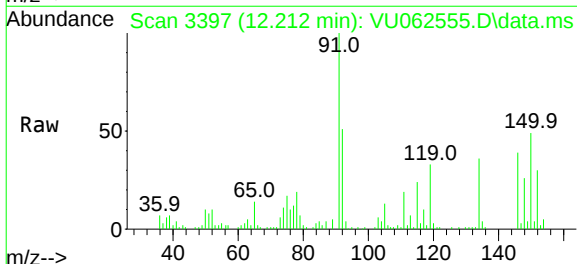
Tgt Ion:146 Resp: 5353
Ion Ratio Lower Upper
146 100
111 53.0 29.3 54.3
148 68.0 44.6 82.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#67
1,2-Dichlorobenzene
Concen: 0.700 ug/L
RT: 12.212 min Scan# 3397
Delta R.T. 0.010 min
Lab File: VU062555.D
Acq: 21 Dec 2024 05:23



Tgt Ion:146 Resp: 15907
Ion Ratio Lower Upper
146 100
111 49.3 36.0 54.0
148 66.8 52.3 78.5

