

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW110223\
 Data File : VW032827.D
 Acq On : 01 Nov 2023 16:19
 Operator : SY/MD
 Sample : 05168-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 XA012

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda

11/02/2023

Supervised By :Semsettin
 Yesilyurt

11/02/2023

Quant Time: Nov 02 01:32:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 02 01:31:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	120438	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	140806	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	66439	5.000	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.278	65	42199	4.266	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.400%
7) Chloroethane-d5	1.532	69	44627m	5.309	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.200%
11) 1,1-Dichloroethene-d2	2.060	65	18785	4.231	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.600%
20) 2-Butanone-d5	3.799	46	95283	44.608	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.220%
24) Chloroform-d	4.253	84	90032	5.482	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.600%
26) 1,2-Dichloroethane-d4	4.944	65	45051	5.556	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.200%
32) Benzene-d6	4.963	84	169639	5.060	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.200%
36) 1,2-Dichloropropane-d6	5.989	67	51741	5.330	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.600%
41) Toluene-d8	7.246	98	153698	4.523	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.400%
43) trans-1,3-Dichloroprop...	7.561	79	18229	4.256	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.200%
46) 2-Hexanone-d5	8.027	63	88044	51.863	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.720%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	45536	5.275	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.400%
66) 1,2-Dichlorobenzene-d4	11.564	152	65565	6.043	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	120.800%#

Target Compounds

					Qvalue
5) Vinyl chloride	1.282	62	44412	3.069	ug/L 100
12) 1,1-Dichloroethene	2.069	96	194121	18.034	ug/L # 77
16) Methylene chloride	2.446	84	192487	14.529	ug/L 98
18) trans-1,2-Dichloroethene	2.693	96	231728	21.770	ug/L 99
22) cis-1,2-Dichloroethene	3.819	96	41586	3.853	ug/L 93
27) 1,2-Dichloroethane	5.044	62	172867	13.556	ug/L 96
29) 1,1,1-Trichloroethane	4.516	97	70517	3.883	ug/L 98
31) Carbon tetrachloride	4.738	117	52752	3.338	ug/L 100
33) Benzene	5.011	78	312484	7.040	ug/L 100
34) Trichloroethene	5.835	95	43239	3.647	ug/L 95
37) 1,2-Dichloropropane	6.095	63	40394	3.772	ug/L 99
42) Toluene	7.317	91	506180	9.816	ug/L 98
45) 1,1,2-Trichloroethane	7.770	97	121459	13.428	ug/L 97
47) Tetrachloroethene	7.905	164	201677	19.247	ug/L 98
51) Chlorobenzene	8.815	112	471206	13.831	ug/L 98
52) Ethylbenzene	8.950	91	238717	4.404	ug/L 98
53) m,p-Xylene	9.072	106	521604	25.411	ug/L 98
54) o-Xylene	9.481	106	145871	7.326	ug/L 100
55) Styrene	9.497	104	565679	17.148	ug/L 98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.211	146	72025	2.999	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	475327	21.362	ug/L	99
70) 1,2,4-trichlorobenzene	13.201	180	82023	5.597	ug/L	100

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

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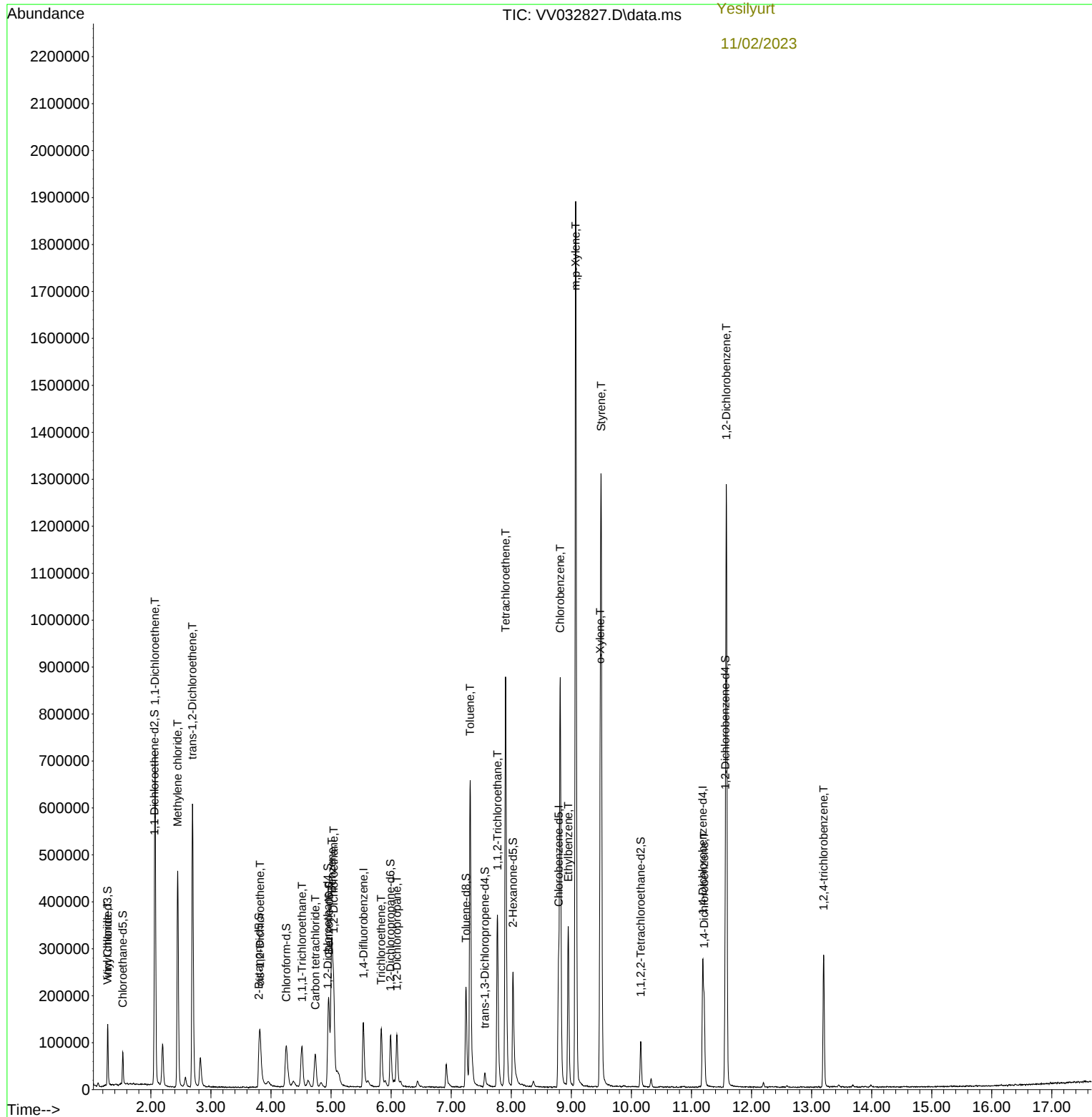
Instrument :
MSVOA_V
ClientSampleId :
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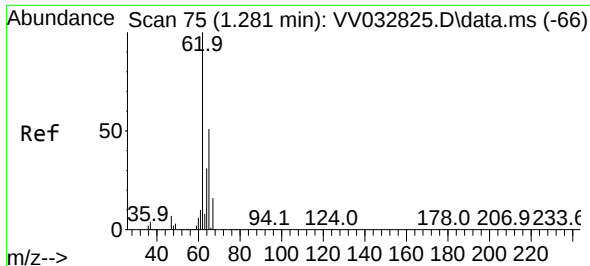
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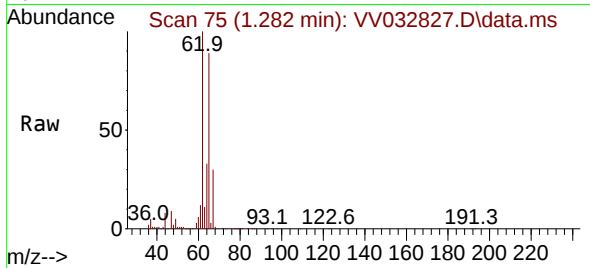
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#5
 Vinyl chloride
 Concen: 3.069 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VV032827.D
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 XA012



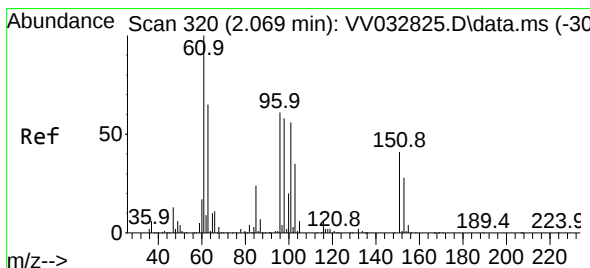
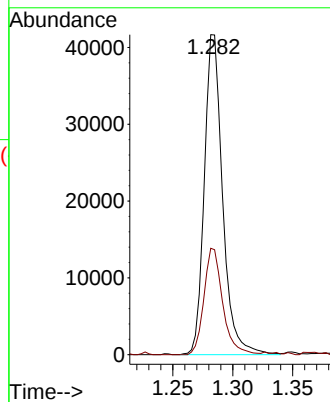
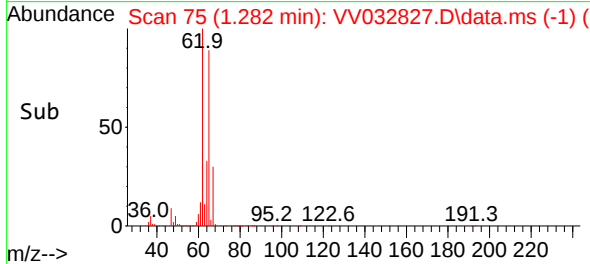
Tgt Ion: 62 Resp: 4441
 Ion Ratio Lower Upper
 62 100
 64 33.3 23.2 43.0

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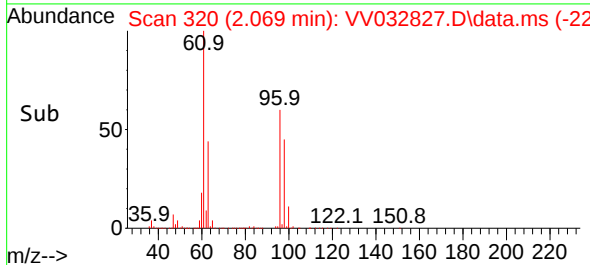
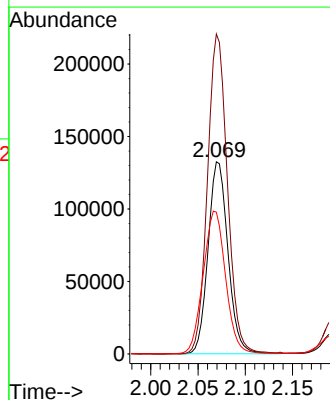
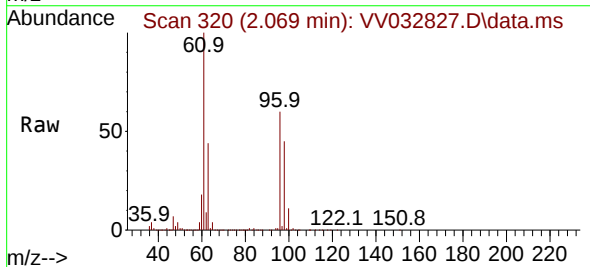
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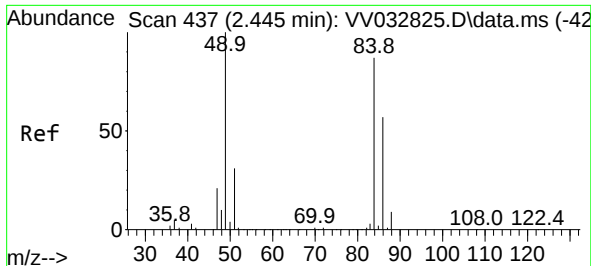
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#12
 1,1-Dichloroethene
 Concen: 18.034 ug/L
 RT: 2.069 min Scan# 320
 Delta R.T. 0.000 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

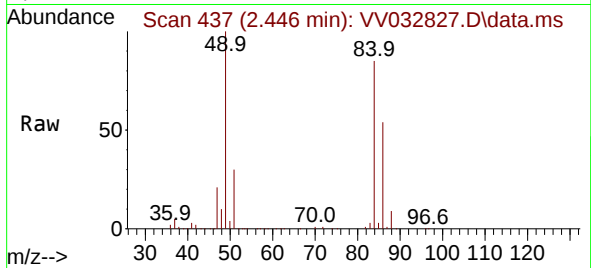
Tgt Ion: 96 Resp: 194121
 Ion Ratio Lower Upper
 96 100
 61 166.5 122.3 227.1
 63 73.7 89.4 166.0





#16
Methylene chloride
Concen: 14.529 ug/L
RT: 2.446 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Instrument :
MSVOA_V
ClientSampleId :
XA012



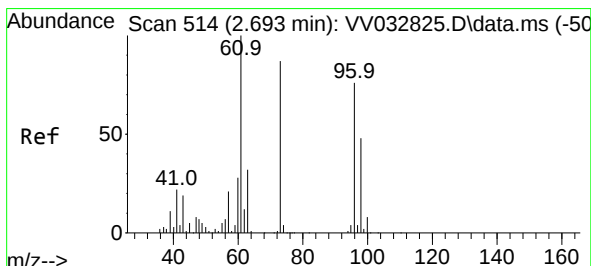
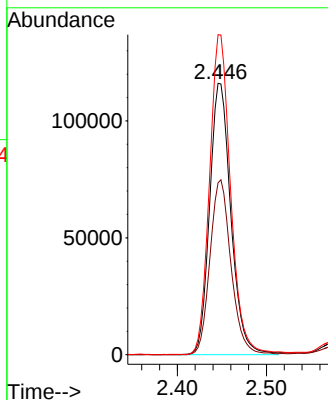
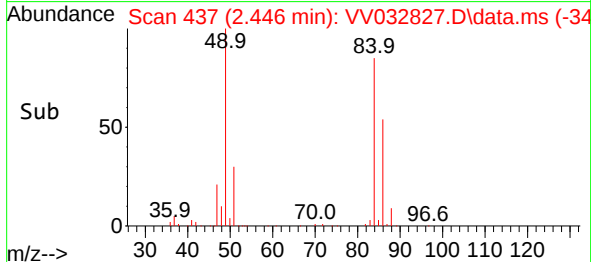
Tgt Ion: 84 Resp: 19248
Ion Ratio Lower Upper
84 100
86 63.3 44.8 83.2
49 117.9 81.1 150.5

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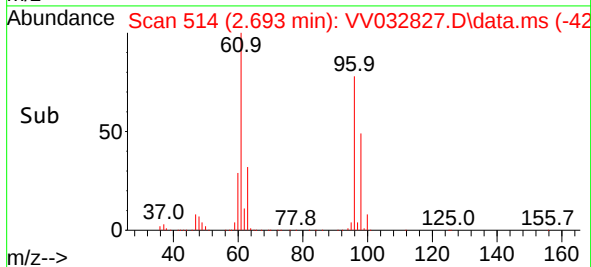
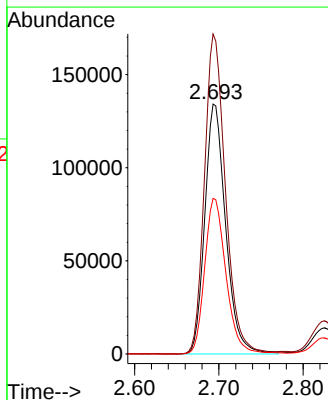
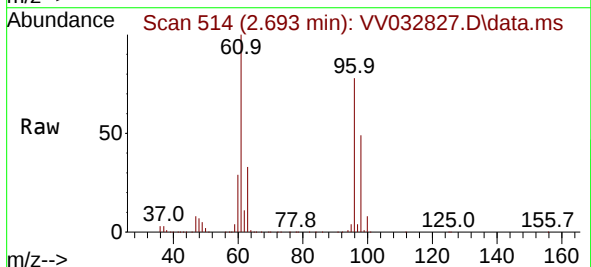
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Yesilyurt

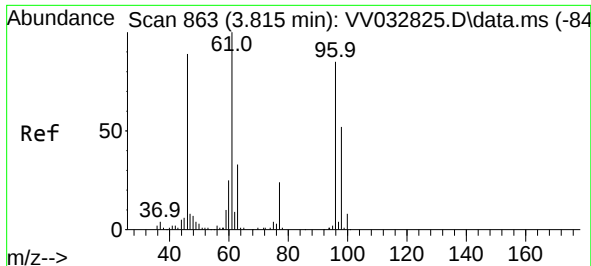
11/02/2023



#18
trans-1,2-Dichloroethene
Concen: 21.770 ug/L
RT: 2.693 min Scan# 514
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

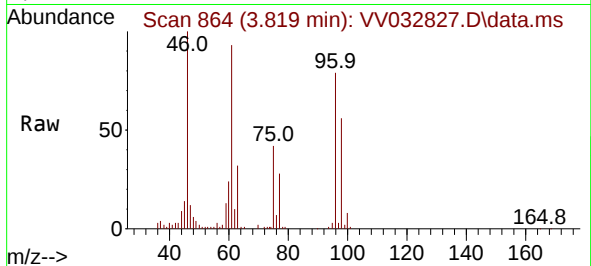
Tgt Ion: 96 Resp: 231728
Ion Ratio Lower Upper
96 100
61 128.0 88.7 164.7
98 62.3 44.4 82.4





#22
 cis-1,2-Dichloroethene
 Concen: 3.853 ug/L
 RT: 3.819 min Scan# 863
 Delta R.T. 0.003 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19

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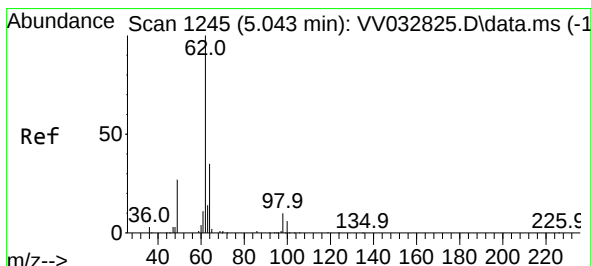
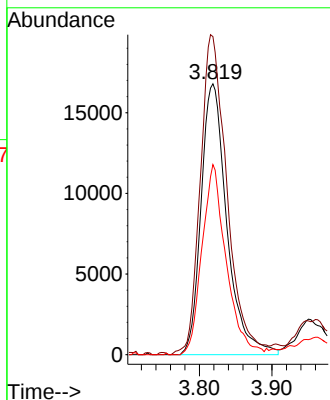
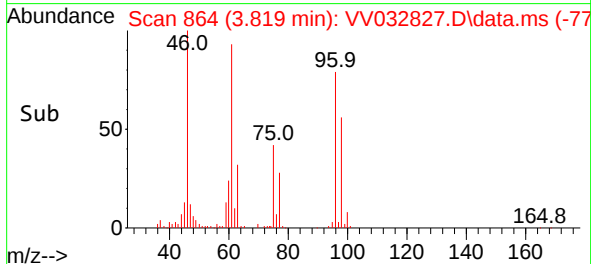
Tgt Ion: 96 Resp: 41586
 Ion Ratio Lower Upper
 96 100
 61 117.4 87.7 162.9
 98 70.2 45.0 83.6

Manual Integrations
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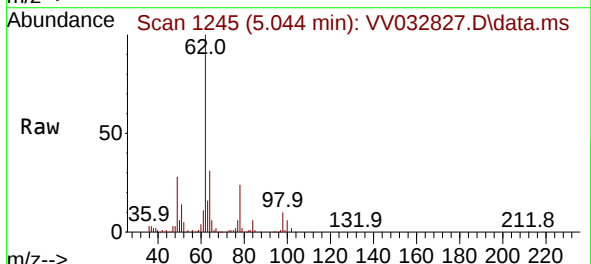
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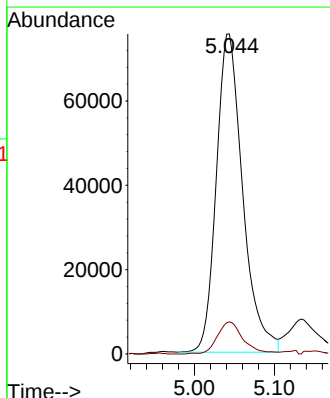
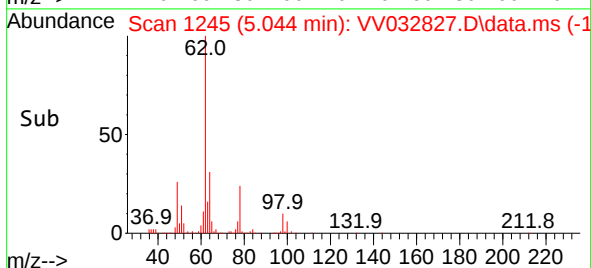
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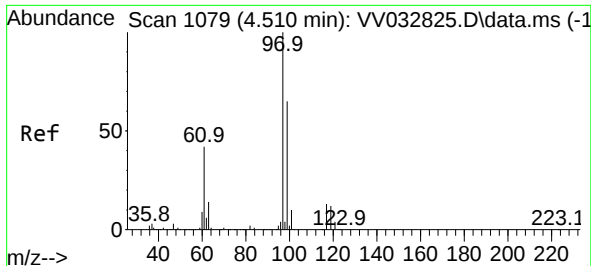


#27
 1,2-Dichloroethane
 Concen: 13.556 ug/L
 RT: 5.044 min Scan# 1245
 Delta R.T. 0.000 min
 Lab File: VV032827.D
 Acq: 01 Nov 2023 16:19



Tgt Ion: 62 Resp: 172867
 Ion Ratio Lower Upper
 62 100
 98 10.0 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 3.883 ug/L

RT: 4.516 min Scan# 110

Delta R.T. 0.007 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

ClientSampleId :

XA012

Tgt Ion: 97	Resp: 7051
Ion Ratio	Lower Upper
97 100	
99 66.2	51.4 77.0
61 44.7	36.1 54.1

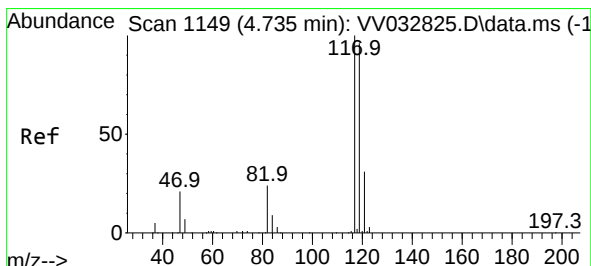
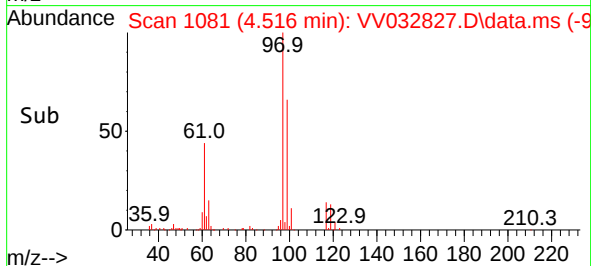
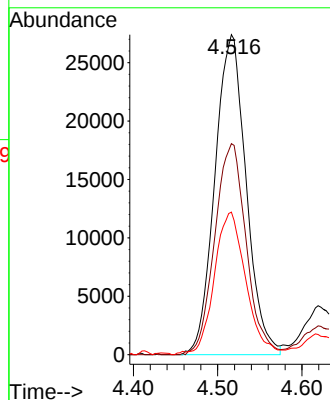
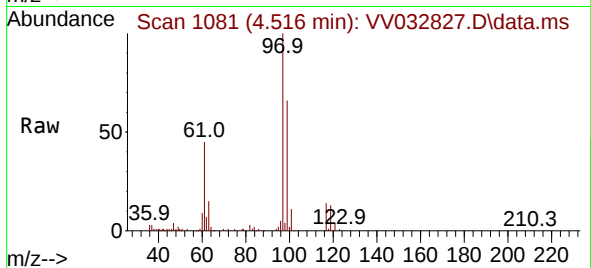
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#31

Carbon tetrachloride

Concen: 3.338 ug/L

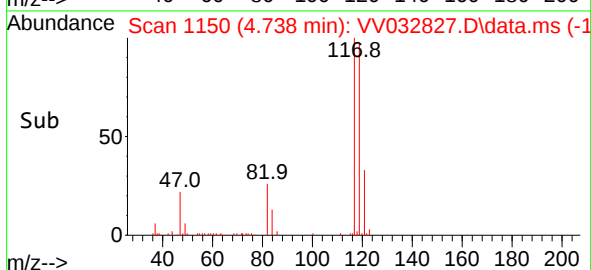
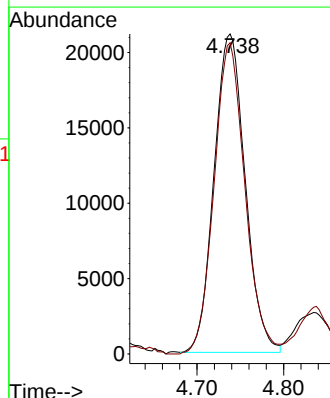
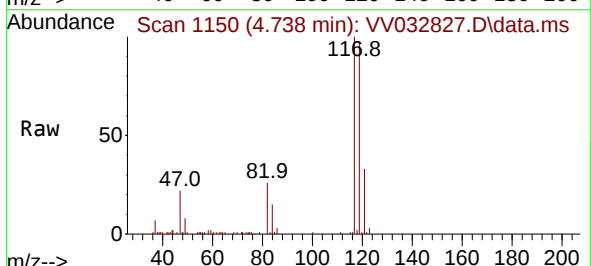
RT: 4.738 min Scan# 1150

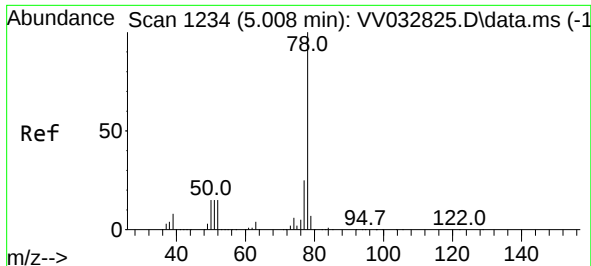
Delta R.T. 0.003 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Tgt Ion:117	Resp: 52752
Ion Ratio	Lower Upper
117 100	
119 97.2	77.8 116.6





#33
Benzene
Concen: 7.040 ug/L
RT: 5.011 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

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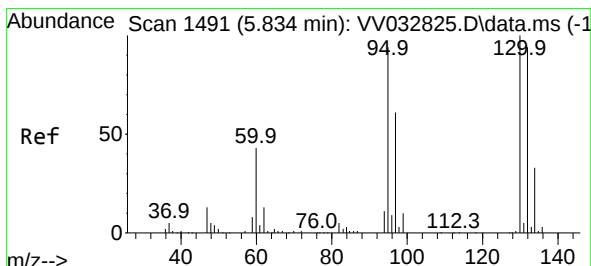
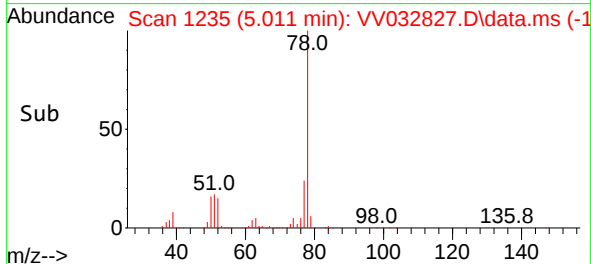
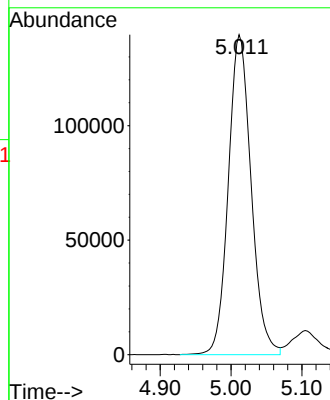
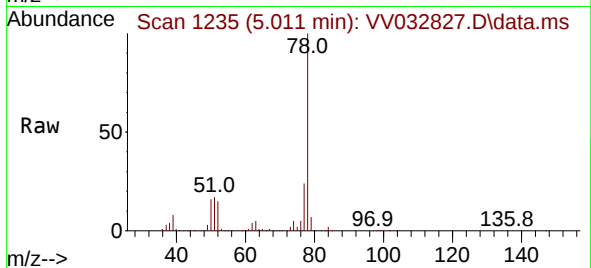
Tgt Ion: 78 Resp: 31248

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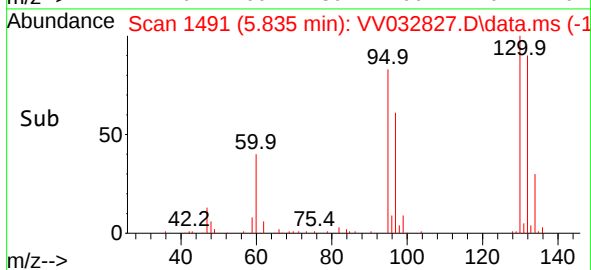
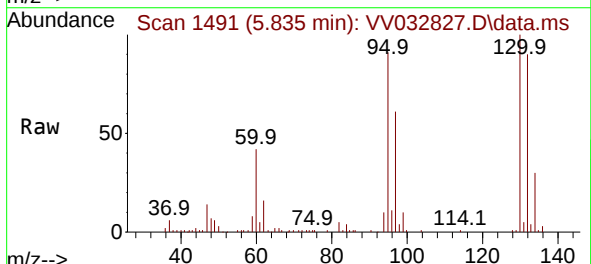
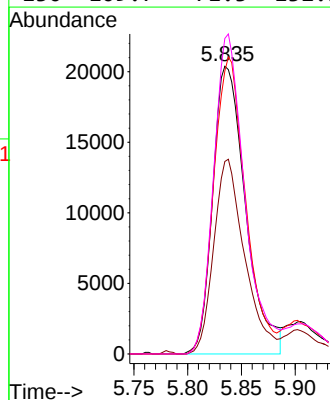
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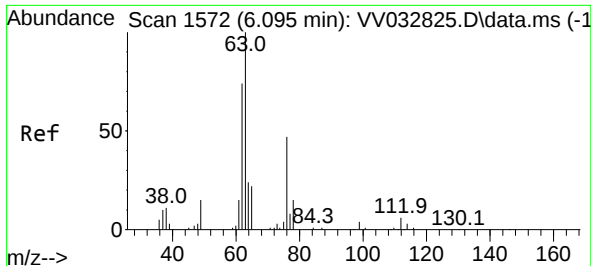


#34
Trichloroethene
Concen: 3.647 ug/L
RT: 5.835 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Tgt Ion: 95 Resp: 43239

Ion	Ratio	Lower	Upper
95	100		
97	66.9	44.0	81.8
132	98.4	66.9	124.3
130	109.7	71.3	132.3





#37
1,2-Dichloropropane
Concen: 3.772 ug/L
RT: 6.095 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV032827.D
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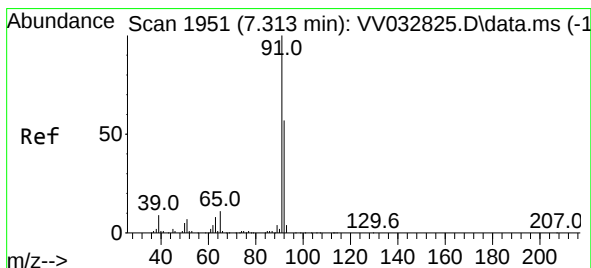
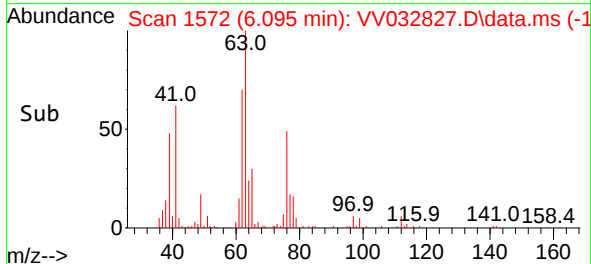
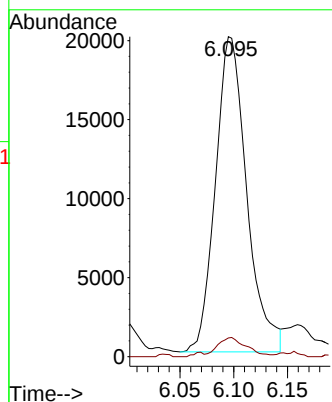
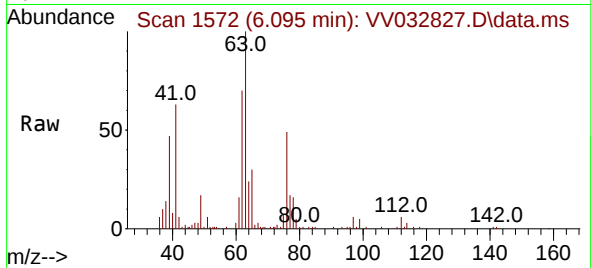
Tgt Ion: 63 Resp: 40394
Ion Ratio Lower Upper
63 100
112 5.6 4.6 7.0

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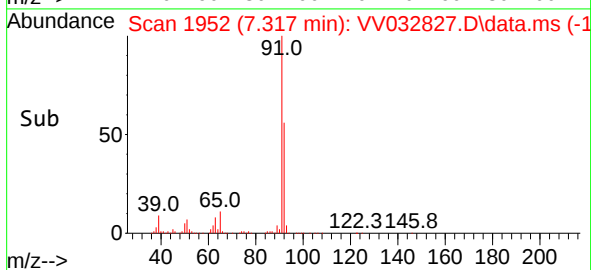
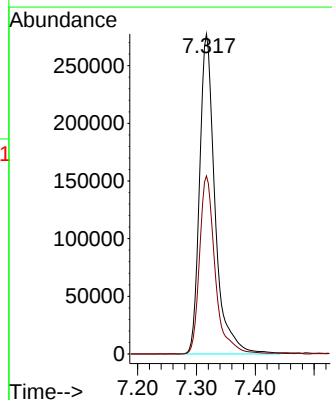
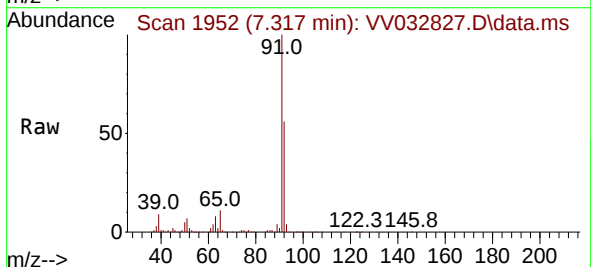
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Supervised By :Semsettin
Yesilyurt

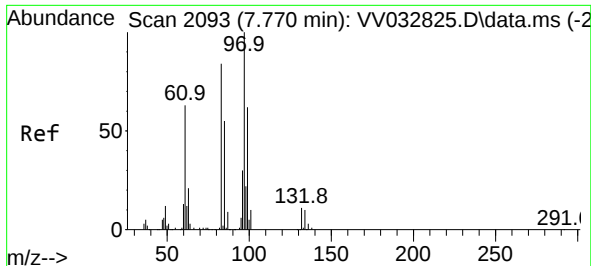
11/02/2023



#42
Toluene
Concen: 9.816 ug/L
RT: 7.317 min Scan# 1952
Delta R.T. 0.003 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

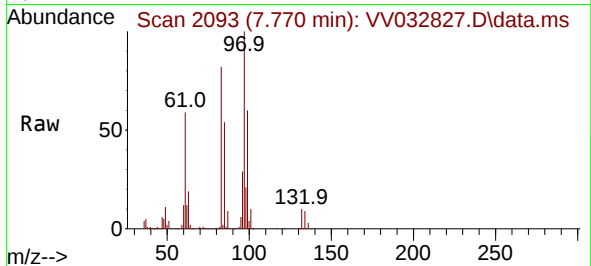
Tgt Ion: 91 Resp: 506180
Ion Ratio Lower Upper
91 100
92 55.7 39.9 74.1





#45
1,1,2-Trichloroethane
Concen: 13.428 ug/L
RT: 7.770 min Scan# 2093
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Instrument :
MSVOA_V
ClientSampleId :
XA012



Tgt Ion: 97 Resp: 121459

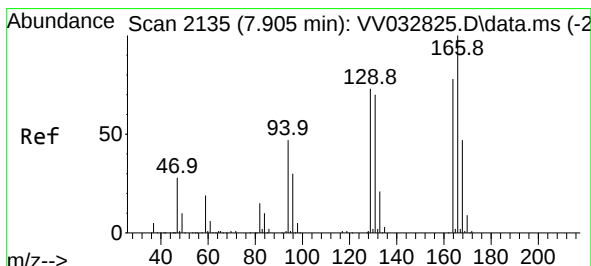
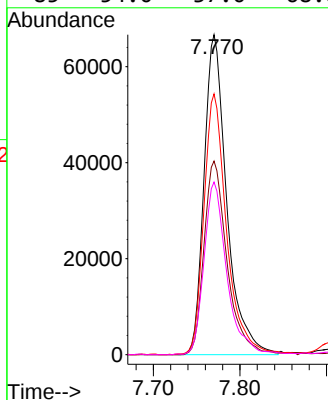
Ion	Ratio	Lower	Upper
97	100		
99	60.5	44.0	81.8
83	81.5	59.9	111.3
85	54.0	37.0	68.8

Manual Integrations
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Reviewed By :Mahesh
Dadoda

11/02/2023
Supervised By :Semsettin
Yesilyurt

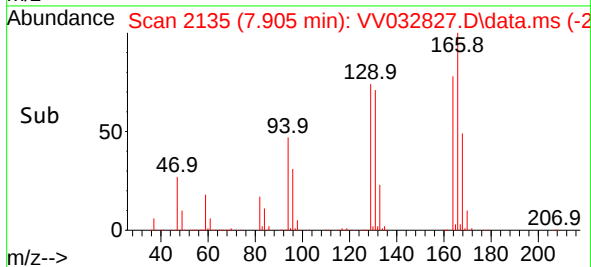
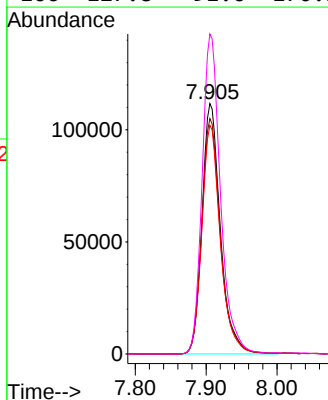
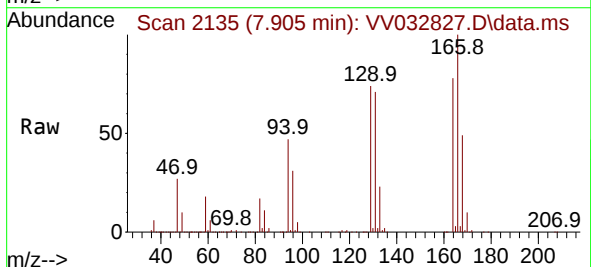
11/02/2023

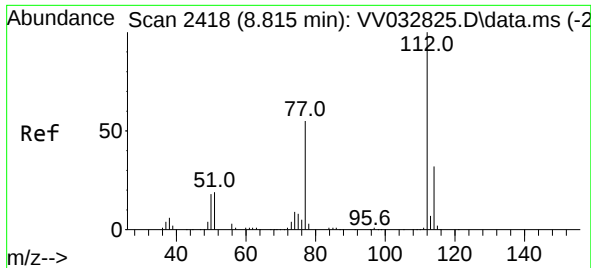


#47
Tetrachloroethene
Concen: 19.247 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Tgt Ion:164 Resp: 201677

Ion	Ratio	Lower	Upper
164	100		
129	94.0	65.3	121.3
131	91.4	66.6	123.8
166	127.8	91.6	170.2





#51
Chlorobenzene
Concen: 13.831 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Instrument :
MSVOA_V
ClientSampleId :
XA012

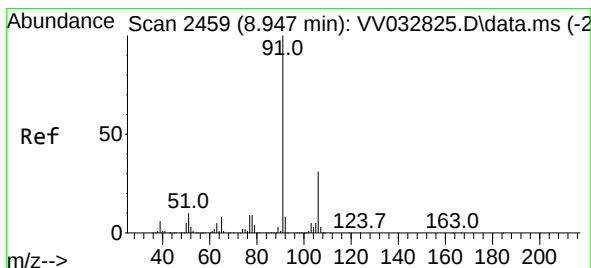
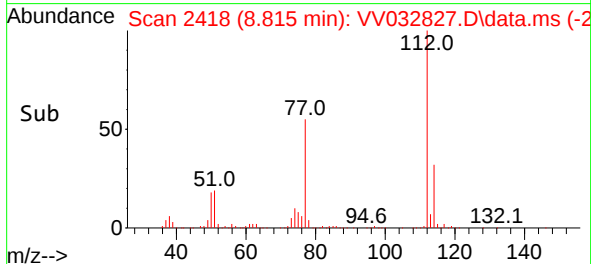
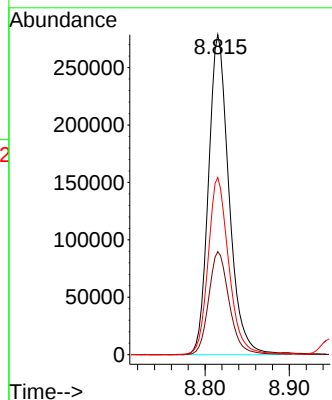
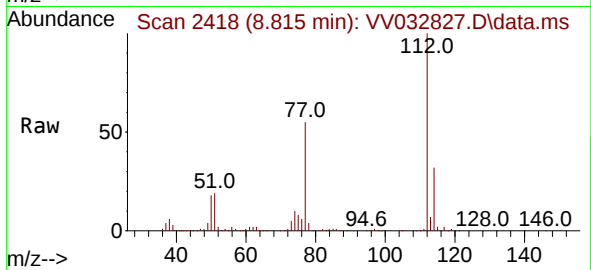
Tgt Ion:112 Resp: 471200
Ion Ratio Lower Upper
112 100
114 32.2 22.7 42.3
77 55.3 45.7 68.5

Manual Integrations
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Reviewed By :Mahesh
Dadoda

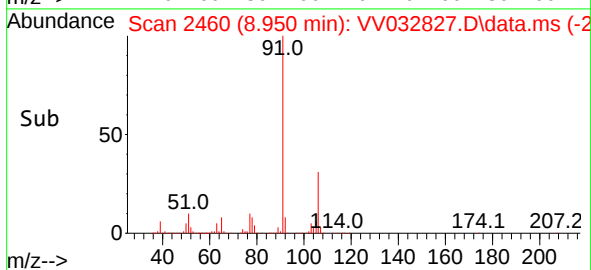
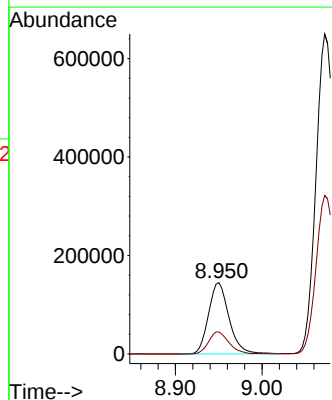
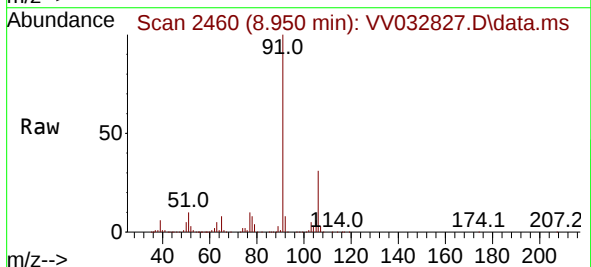
11/02/2023
Supervised By :Semsettin
Yesilyurt

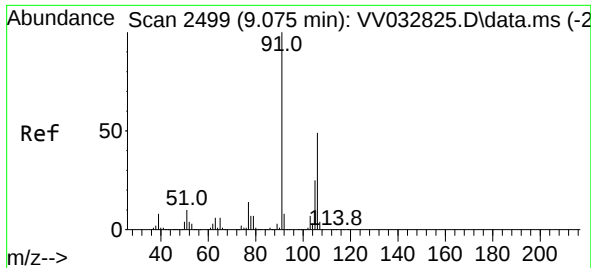
11/02/2023



#52
Ethylbenzene
Concen: 4.404 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.003 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Tgt Ion: 91 Resp: 238717
Ion Ratio Lower Upper
91 100
106 30.8 20.9 38.9





#53
m,p-Xylene
Concen: 25.411 ug/L
RT: 9.072 min Scan# 2499
Delta R.T. -0.003 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Instrument :
MSVOA_V
ClientSampleId :
XA012

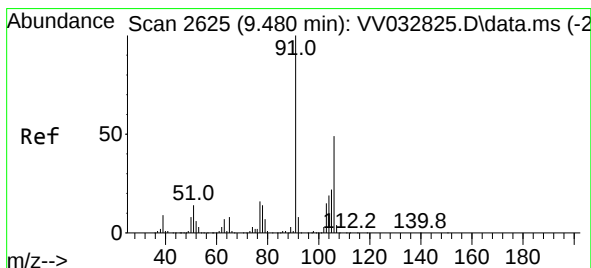
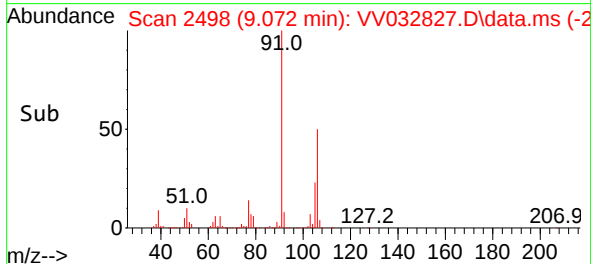
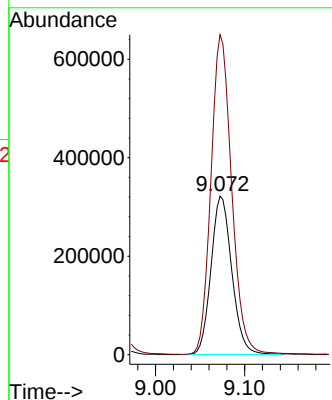
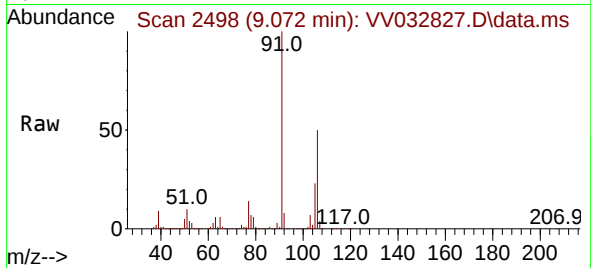
Tgt Ion:106 Resp: 521604
Ion Ratio Lower Upper
106 100
91 201.8 139.3 258.7

Manual Integrations
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Reviewed By :Mahesh
Dadoda

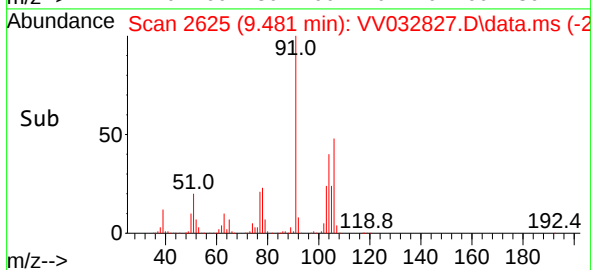
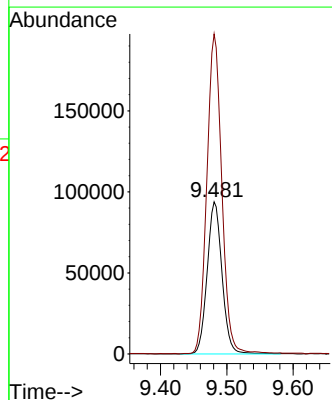
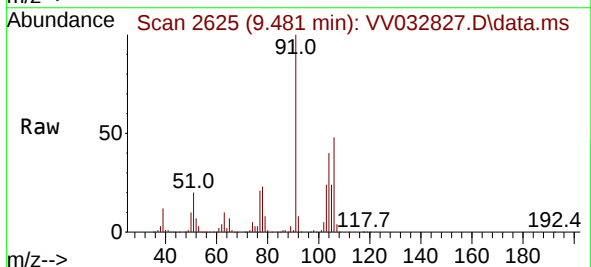
11/02/2023
Supervised By :Semsettin
Yesilyurt

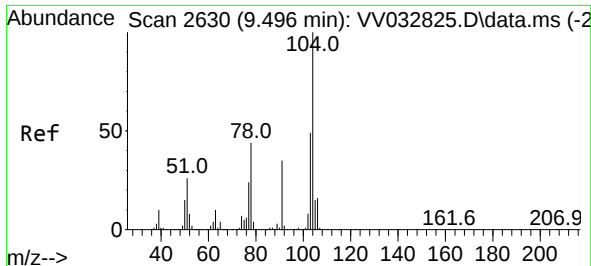
11/02/2023



#54
o-Xylene
Concen: 7.326 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

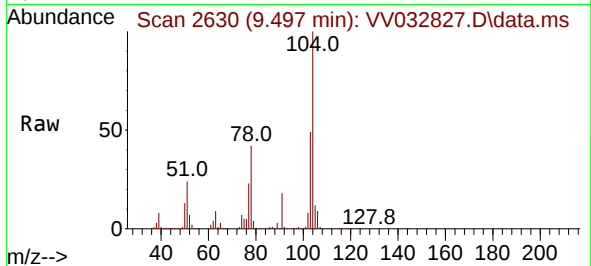
Tgt Ion:106 Resp: 145871
Ion Ratio Lower Upper
106 100
91 210.4 147.4 273.8





#55
Styrene
Concen: 17.148 ug/L
RT: 9.497 min Scan# 2630
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Instrument :
MSVOA_V
ClientSampleId :
XA012



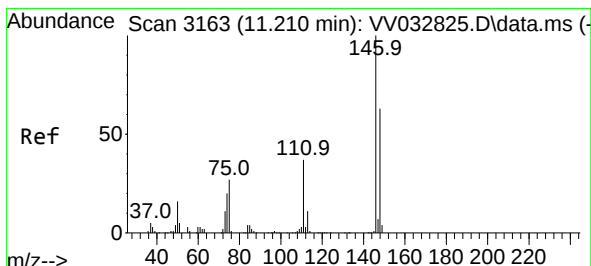
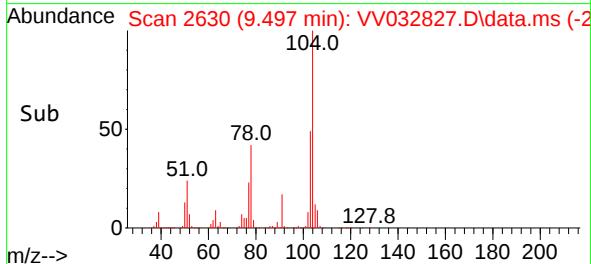
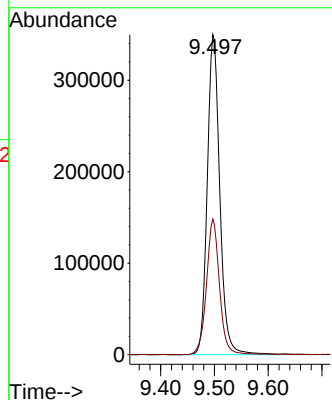
Tgt Ion:104 Resp: 565679
Ion Ratio Lower Upper
104 100
78 42.3 30.5 56.7

Manual Integrations
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Reviewed By :Mahesh
Dadoda

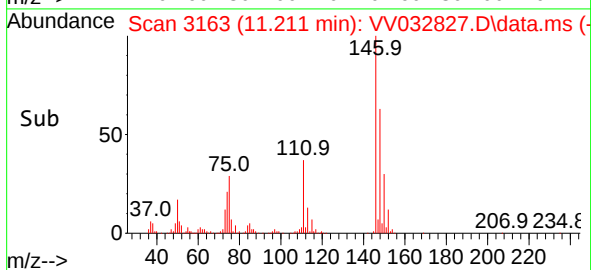
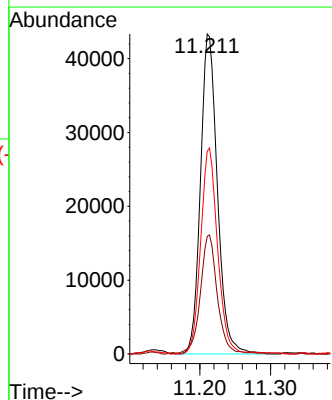
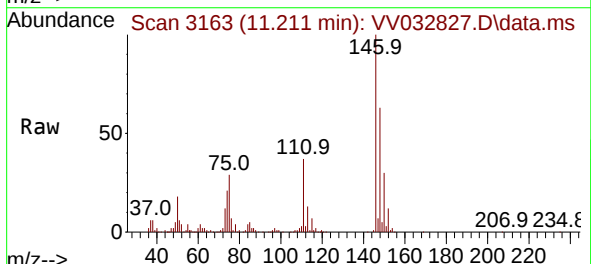
11/02/2023
Supervised By :Semsettin
Yesilyurt

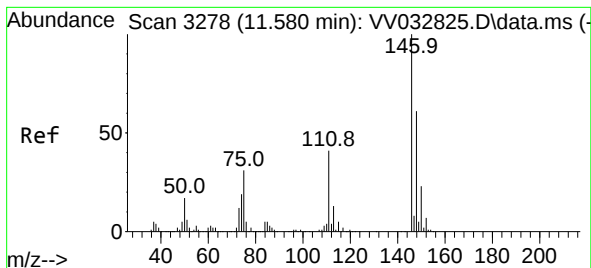
11/02/2023



#65
1,4-Dichlorobenzene
Concen: 2.999 ug/L
RT: 11.211 min Scan# 3163
Delta R.T. 0.000 min
Lab File: VV032827.D
Acq: 01 Nov 2023 16:19

Tgt Ion:146 Resp: 72025
Ion Ratio Lower Upper
146 100
111 36.8 26.2 48.8
148 63.4 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 21.362 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Instrument :

MSVOA_V

ClientSampleId :

XA012

Tgt Ion:146 Resp: 47532

Ion Ratio Lower Upper

146 100

111 41.5 34.2 51.4

148 64.4 51.8 77.8

Manual Integrations

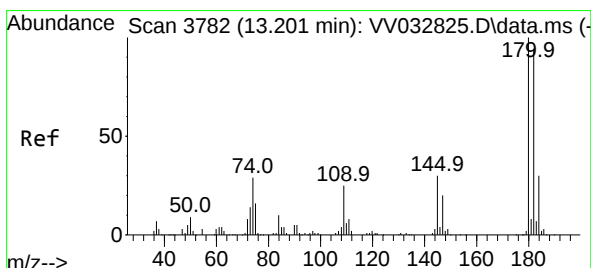
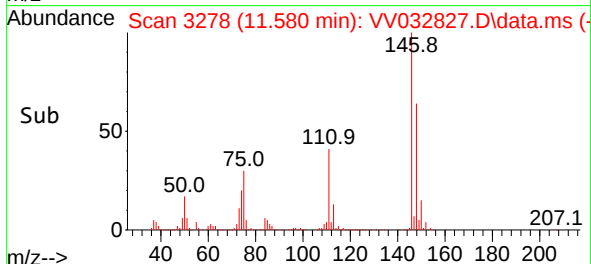
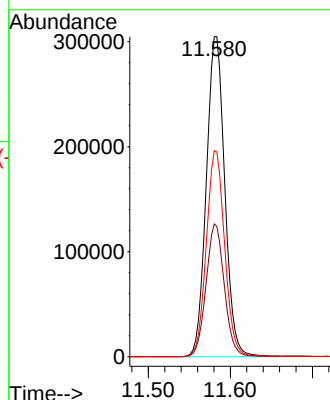
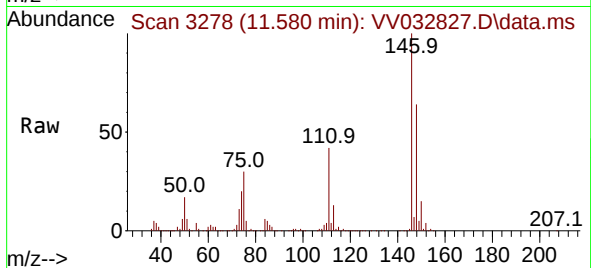
APPROVED

Reviewed By :Mahesh
Dadoda

11/02/2023

Supervised By :Semsettin
Yesilyurt

11/02/2023



#70

1,2,4-trichlorobenzene

Concen: 5.597 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.000 min

Lab File: VV032827.D

Acq: 01 Nov 2023 16:19

Tgt Ion:180 Resp: 82023

Ion Ratio Lower Upper

180 100

182 94.5 75.7 113.5

145 31.1 25.0 37.4

