

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041549.D
 Acq On : 19 Aug 2024 15:40
 Operator : SY/MD
 Sample : P3659-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
 Supervised By :Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:18:02 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 20 02:18:02 2024

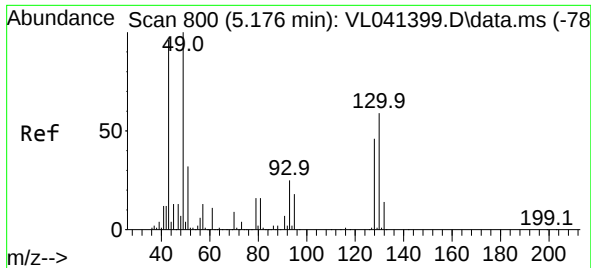
QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

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

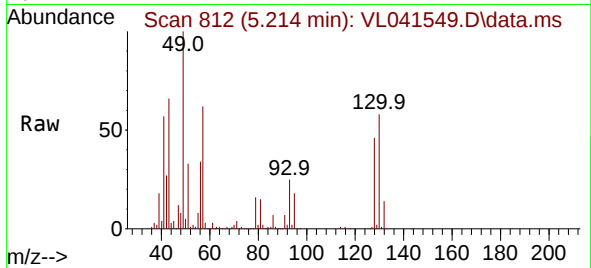
Internal Standards						
1) Bromochloromethane	5.214	49	1030450	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2642611	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2422893	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1922852	10.313	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.751	85	41368	0.233	ppbv	98
3) Chlorodifluoromethane	2.694	51	45043m	0.367	ppbv	
4) Chloromethane	2.835	50	42795	0.656	ppbv #	88
9) Propene	2.716	41	270309	4.797	ppbv	91
11) Trichlorofluoromethane	3.584	101	34364	0.218	ppbv	84
13) Ethanol	3.269	45	8672203	1721.832	ppbv	93
15) Acetone	3.485	43	2895973	24.735	ppbv	98
19) Isopropyl Alcohol	3.607	45	2478826	36.215	ppbv #	98
20) Methylene Chloride	3.954	84	4603327	105.436	ppbv	92
26) Hexane	5.234	57	3040182	31.508	ppbv #	40
29) Chloroform	5.298	83	668756	4.249	ppbv	97
34) 2-Butanone	4.803	43	728181	5.696	ppbv	99
35) Carbon Tetrachloride	6.517	117	8804	0.060	ppbv #	83
36) Benzene	6.388	78	35010m	0.181	ppbv	
41) Tetrahydrofuran	5.578	42	299717	4.099	ppbv	92
42) Bromodichloromethane	7.269	83	18705	0.120	ppbv #	99
52) Tetrachloroethene	10.639	164	10179m	0.136	ppbv	
53) Toluene	9.243	91	85799	0.399	ppbv	97
58) Ethyl Benzene	12.111	91	29979	0.107	ppbv	95
59) m/p-Xylene	12.368	91	117480m	0.487	ppbv	
60) o-Xylene	13.082	91	46268m	0.203	ppbv	
61) Styrene	12.921	104	15550m	0.151	ppbv	
69) p-Isopropyltoluene	17.018	119	160193	0.447	ppbv	93
72) 4-Ethyltoluene	15.214	105	44888	0.167	ppbv #	91
73) 1,3,5-Trimethylbenzene	15.365	105	57267m	0.248	ppbv	
74) 1,2,4-Trimethylbenzene	16.130	105	164218	0.611	ppbv #	72
76) 1,4-Dichlorobenzene	16.494	146	1451235	8.867	ppbv	99
79) Naphthalene	21.407	128	2141070	9.021	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

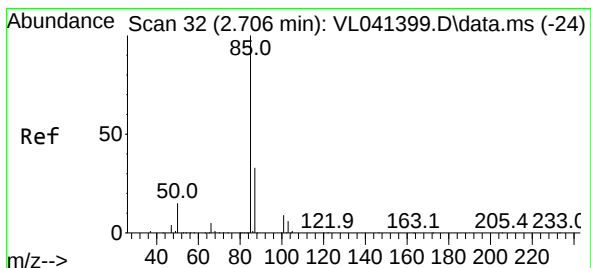
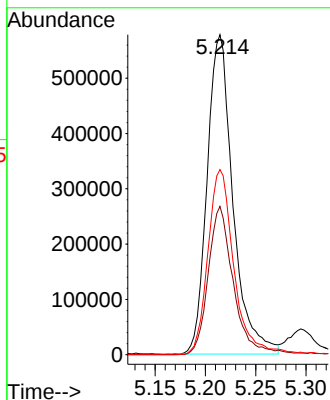
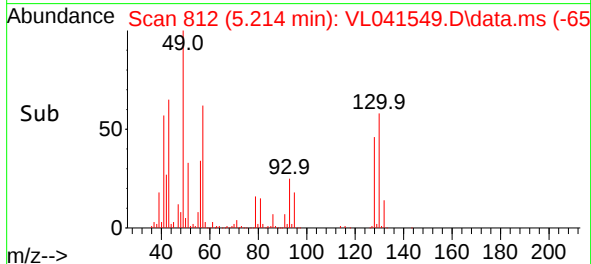
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 1030450
Ion Ratio Lower Upper
49 100
128 46.1 23.8 71.4
130 59.5 30.8 92.4

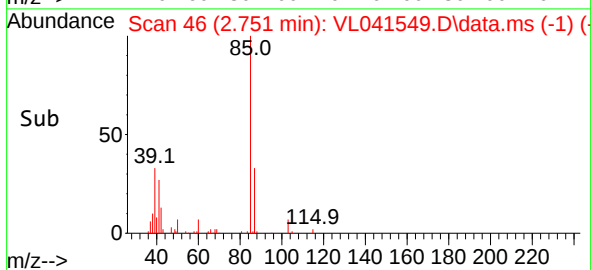
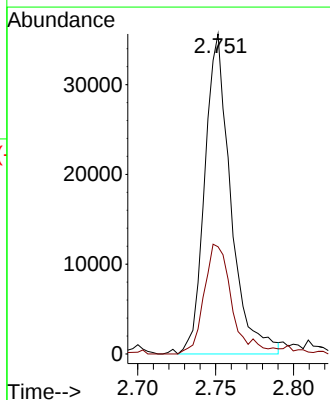
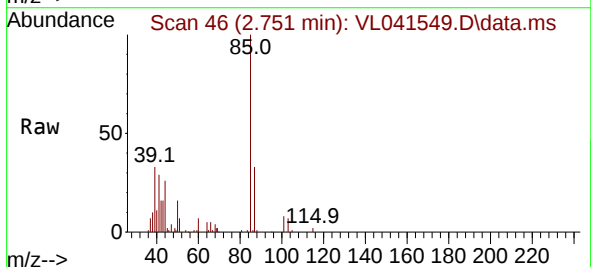
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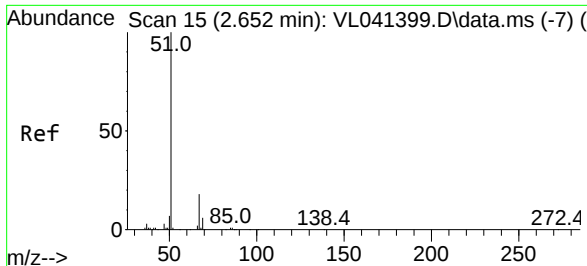
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#2
Dichlorodifluoromethane
Concen: 0.233 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

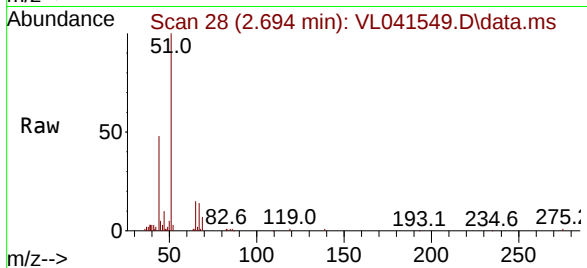
Tgt Ion: 85 Resp: 41368
Ion Ratio Lower Upper
85 100
87 33.5 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.367 ppbv m
RT: 2.694 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

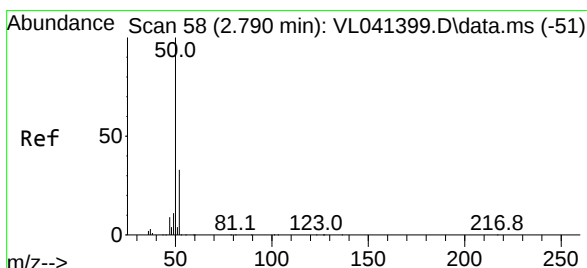
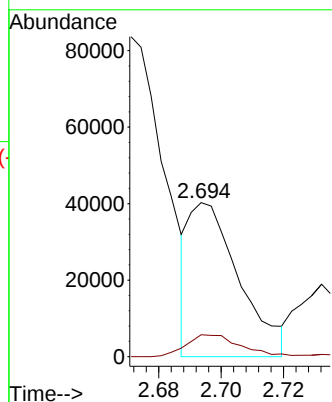
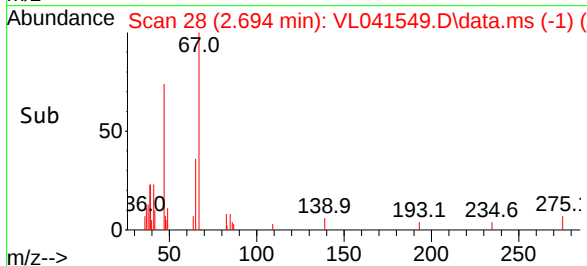
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 4504
Ion Ratio Lower Upper
51 100
67 17.5 14.5 21.7

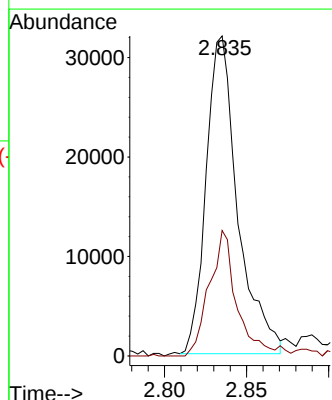
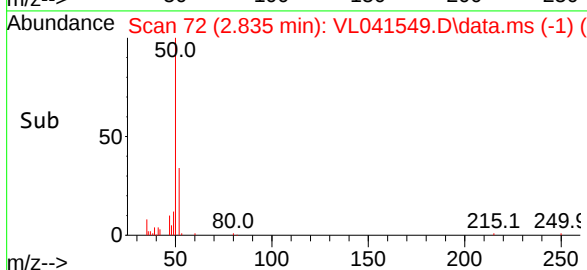
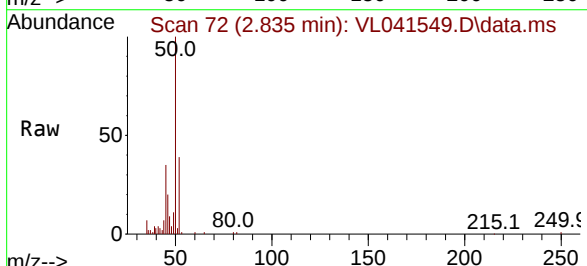
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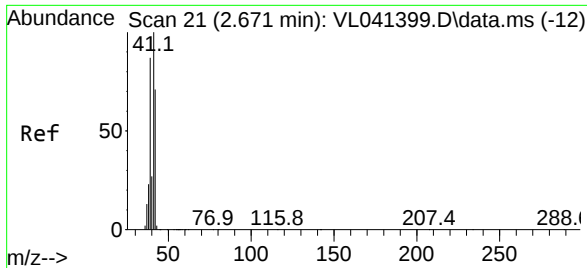
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#4
Chloromethane
Concen: 0.656 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

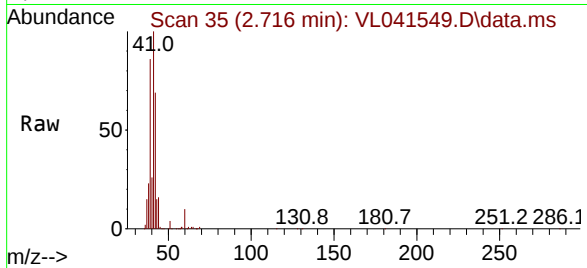
Tgt Ion: 50 Resp: 42795
Ion Ratio Lower Upper
50 100
52 39.5 26.1 39.1#





#9
 Propene
 Concen: 4.797 ppbv
 RT: 2.716 min Scan# 305
 Delta R.T. 0.003 min
 Lab File: VL041549.D
 Acq: 19 Aug 2024 15:40

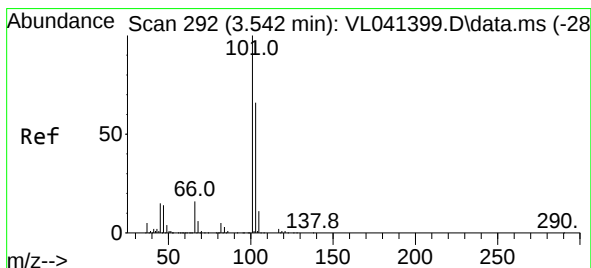
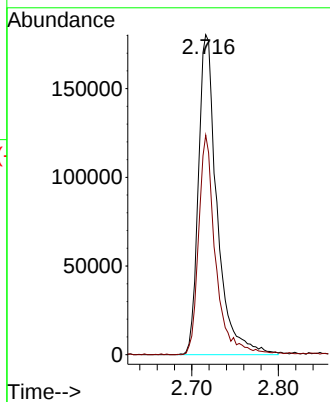
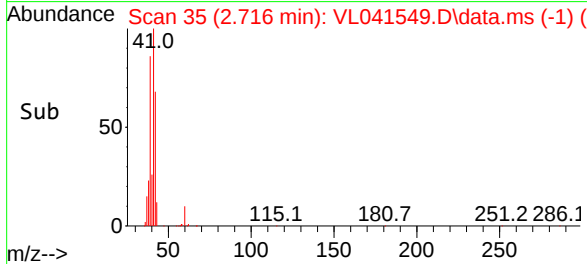
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 270309
 Ion Ratio Lower Upper
 41 100
 42 62.8 55.9 83.9

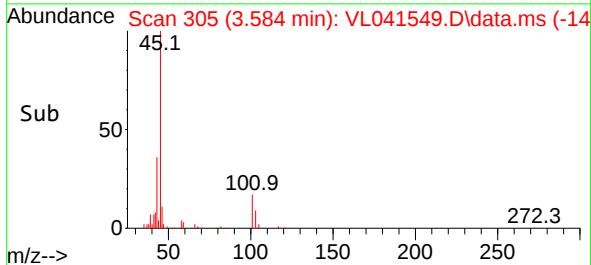
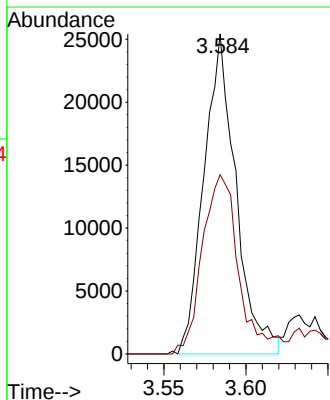
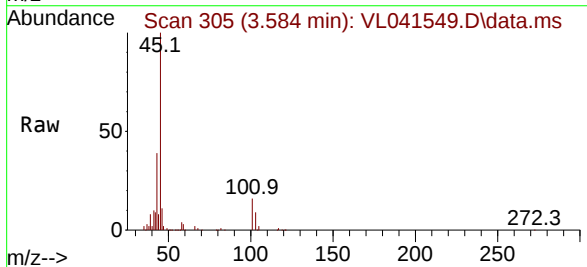
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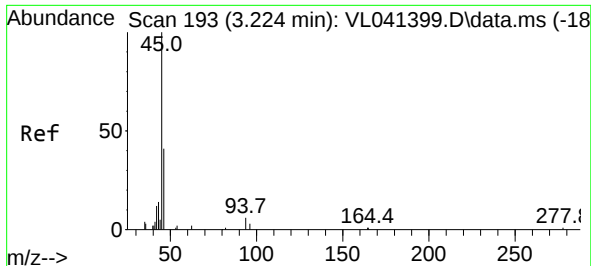
Reviewed By :Semsettin Yesilyurt 08/20/2024
 Supervised By :Mahesh Dadoda 08/20/2024



#11
 Trichlorofluoromethane
 Concen: 0.218 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.003 min
 Lab File: VL041549.D
 Acq: 19 Aug 2024 15:40

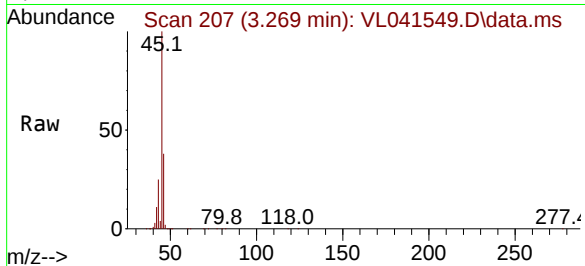
Tgt Ion:101 Resp: 34364
 Ion Ratio Lower Upper
 101 100
 103 53.3 52.6 79.0





#13
Ethanol
Concen: 1721.832 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.013 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

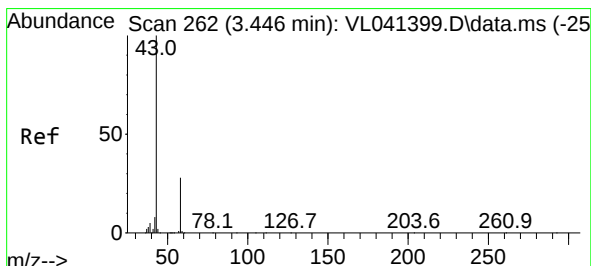
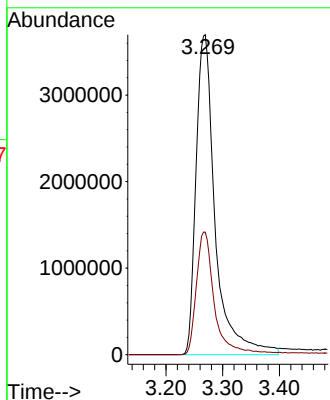
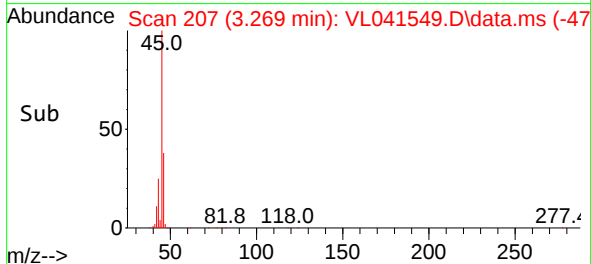
Instrument :
MSVOA_L
ClientSampleId :
IA1



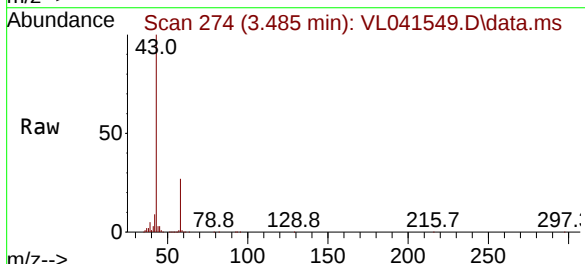
Tgt Ion: 45 Resp: 867220
Ion Ratio Lower Upper
45 100
46 37.2 13.4 53.4

Manual Integrations
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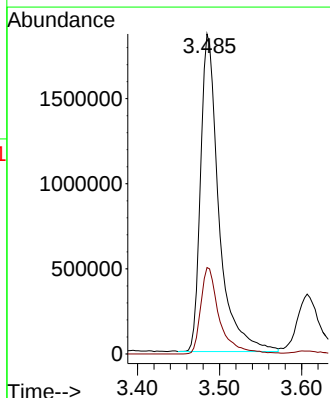
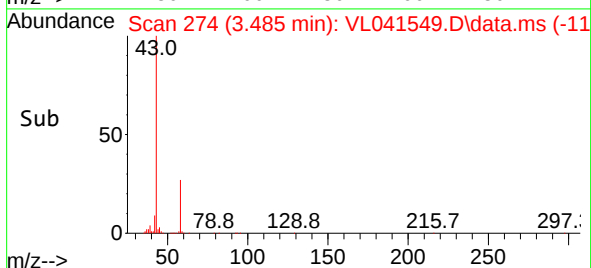
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

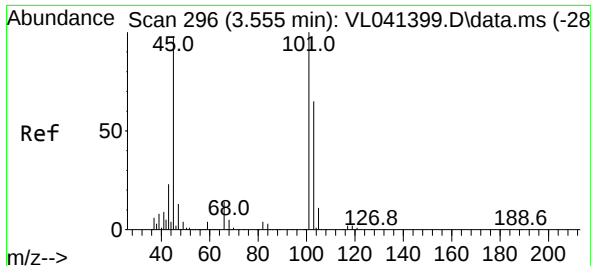


#15
Acetone
Concen: 24.735 ppbv
RT: 3.485 min Scan# 274
Delta R.T. 0.000 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40



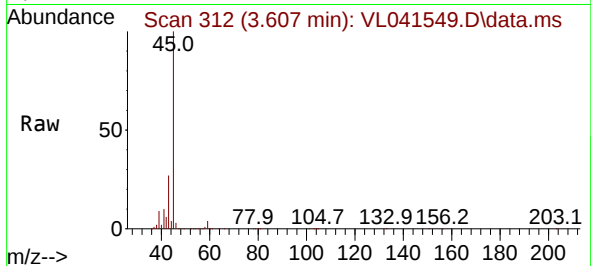
Tgt Ion: 43 Resp: 2895973
Ion Ratio Lower Upper
43 100
58 27.8 21.4 32.2





#19
Isopropyl Alcohol
Concen: 36.215 ppbv
RT: 3.607 min Scan# 312
Delta R.T. 0.016 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

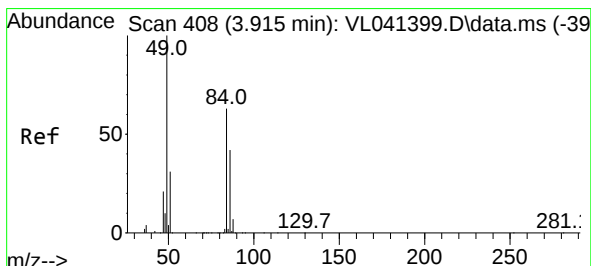
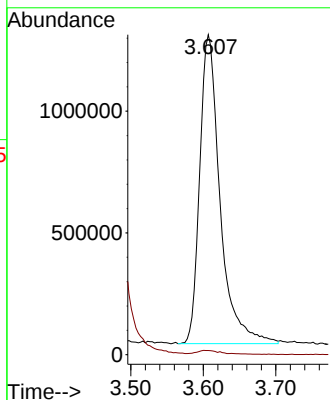
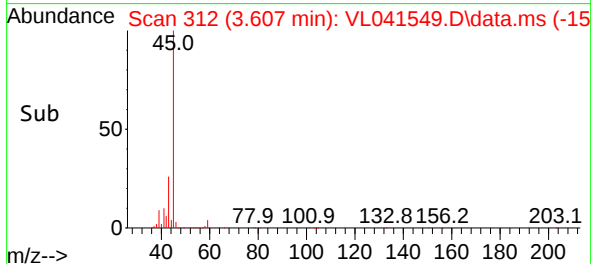
Instrument :
MSVOA_L
ClientSampleId :
IA1



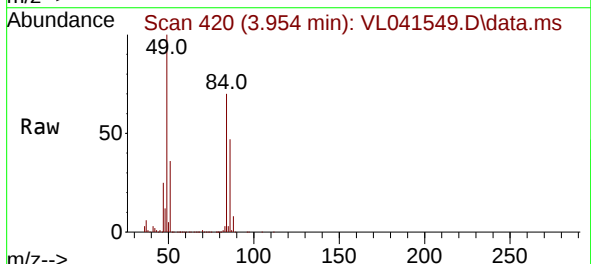
Tgt Ion: 45 Resp: 2478820
Ion Ratio Lower Upper
45 100
58 1.9 1.9 2.9

Manual Integrations
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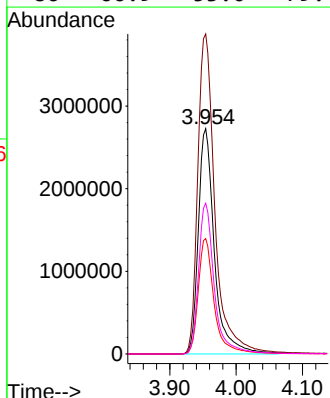
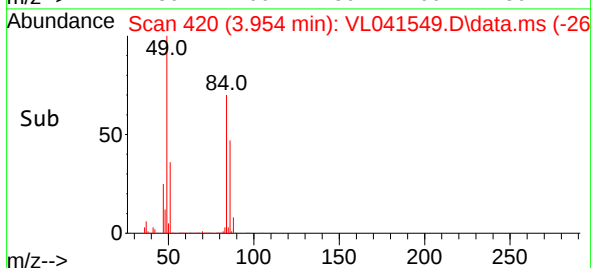
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

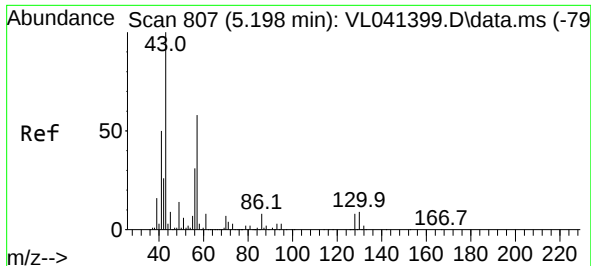


#20
Methylene Chloride
Concen: 105.436 ppbv
RT: 3.954 min Scan# 420
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40



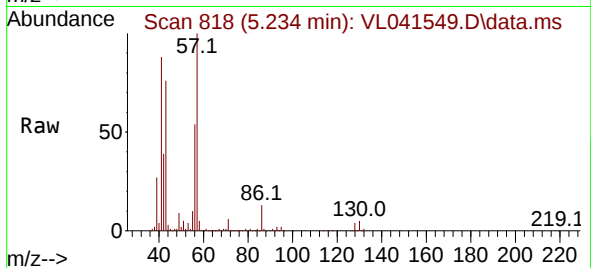
Tgt Ion: 84 Resp: 4603327
Ion Ratio Lower Upper
84 100
49 142.0 126.6 190.0
51 51.2 38.6 58.0
86 66.9 53.0 79.4





#26
Hexane
Concen: 31.508 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

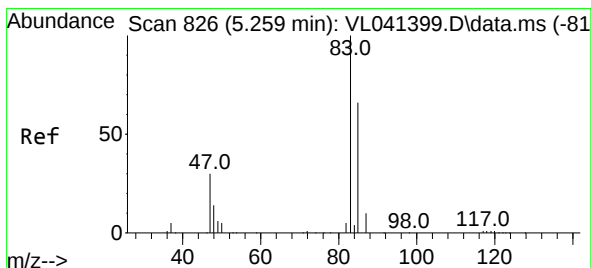
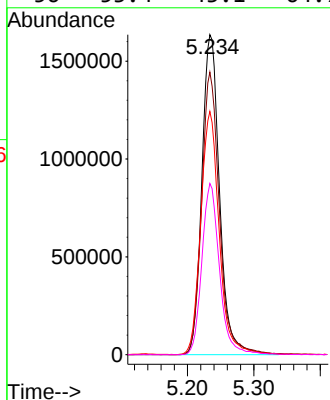
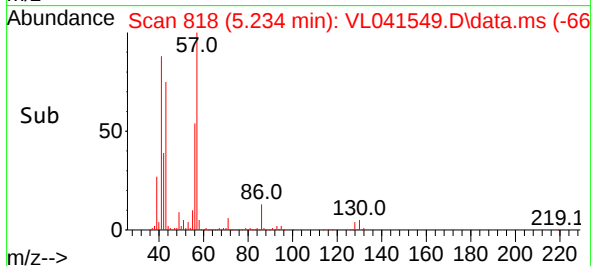
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 304018
Ion Ratio Lower Upper
57 100
41 89.0 74.0 111.0
43 79.4 193.6 290.4
56 53.4 43.1 64.7

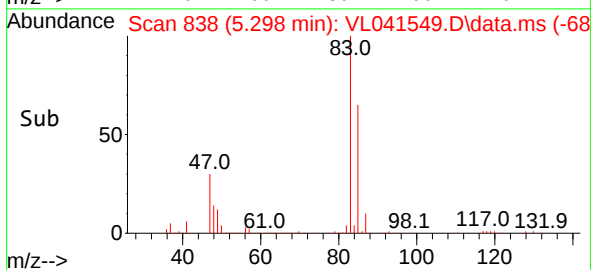
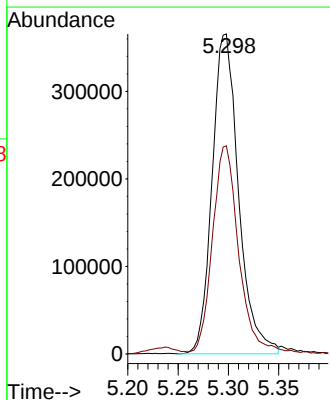
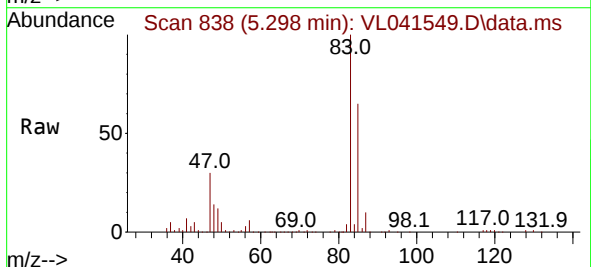
Manual Integrations
APPROVED

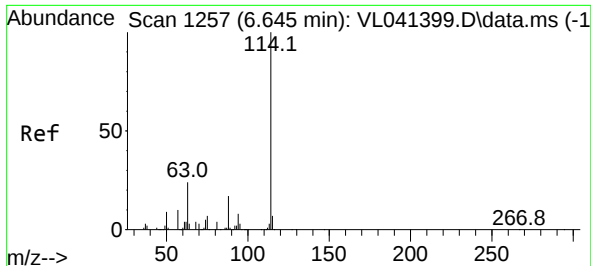
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#29
Chloroform
Concen: 4.249 ppbv
RT: 5.298 min Scan# 838
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

Tgt Ion: 83 Resp: 668756
Ion Ratio Lower Upper
83 100
85 63.9 53.1 79.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL041549.D

Acq: 19 Aug 2024 15:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 264261

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

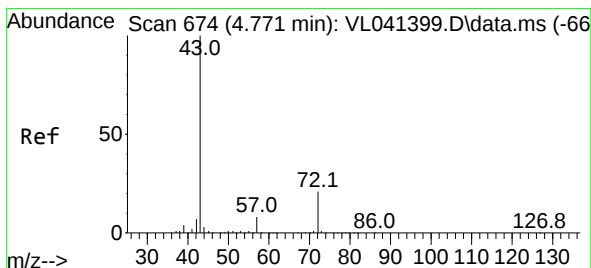
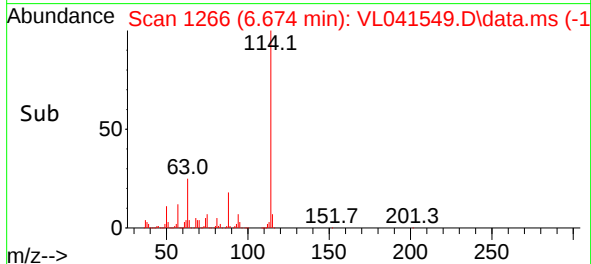
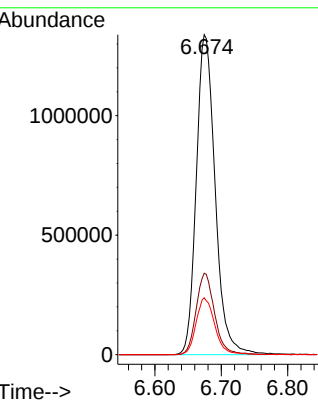
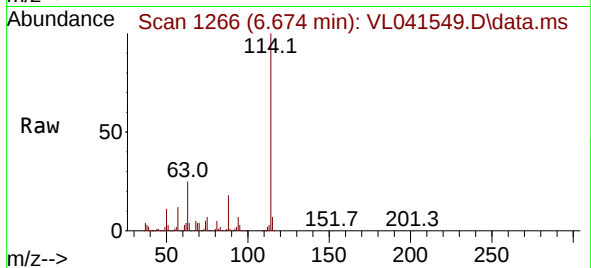
88 17.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024

Supervised By :Mahesh Dadoda 08/20/2024



#34

2-Butanone

Concen: 5.696 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.000 min

Lab File: VL041549.D

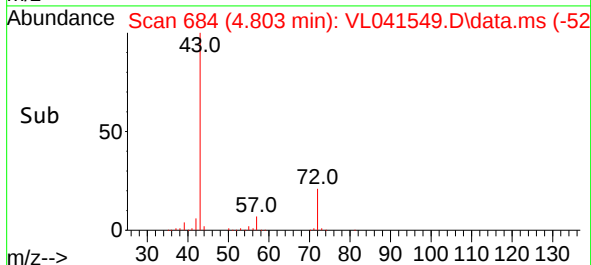
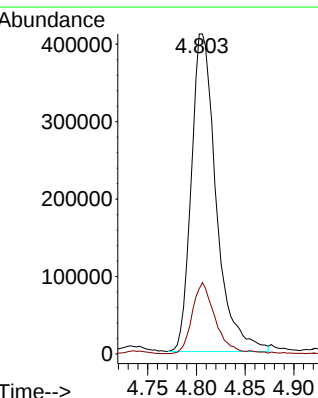
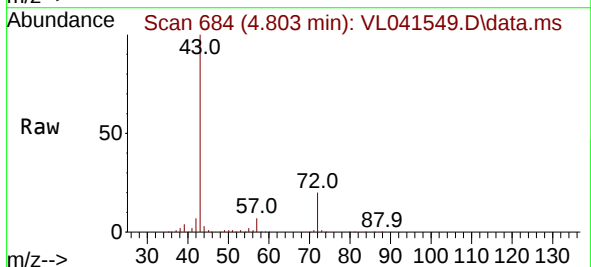
Acq: 19 Aug 2024 15:40

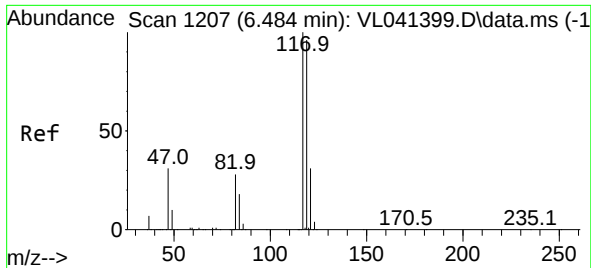
Tgt Ion: 43 Resp: 728181

Ion Ratio Lower Upper

43 100

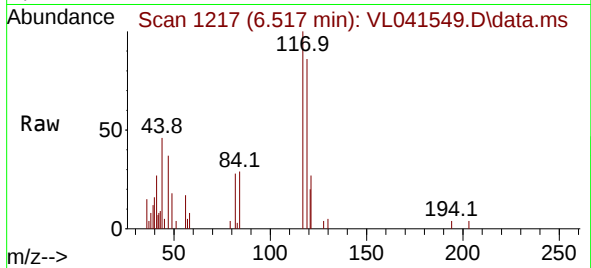
72 21.2 17.3 25.9





#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 6.517 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

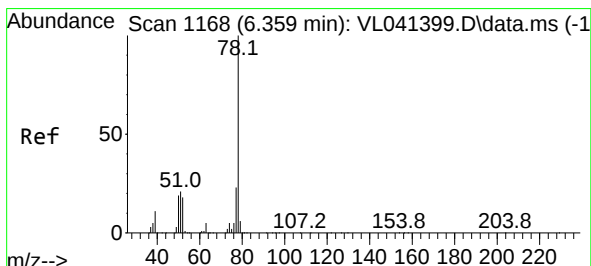
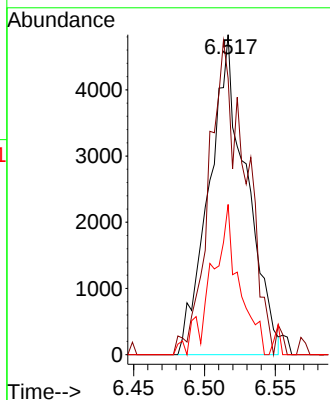
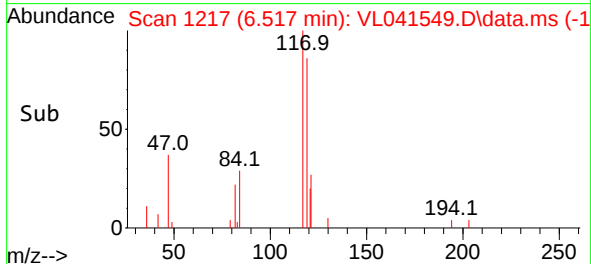
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 8804
Ion Ratio Lower Upper
117 100
119 80.5 76.6 115.0
121 43.7 25.1 37.7

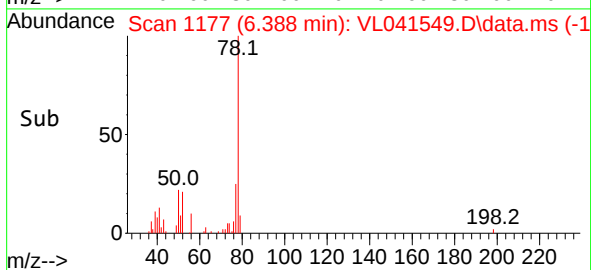
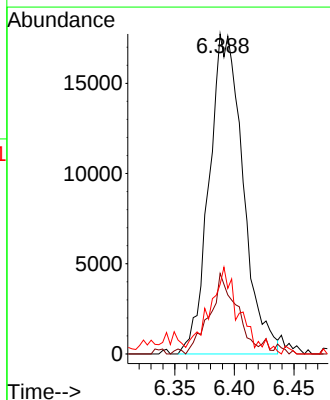
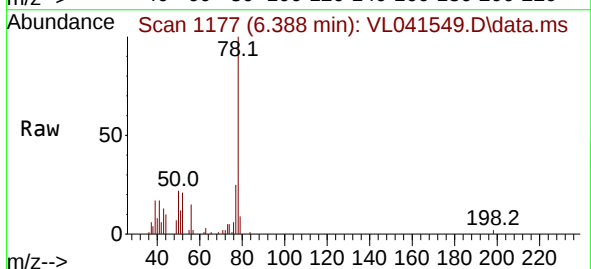
Manual Integrations
APPROVED

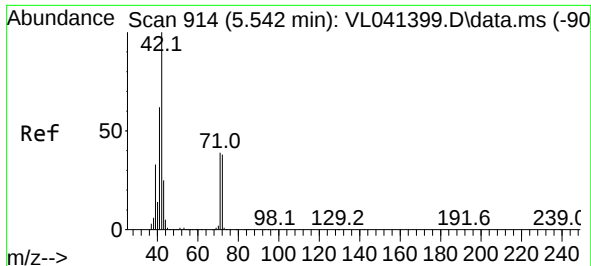
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#36
Benzene
Concen: 0.181 ppbv m
RT: 6.388 min Scan# 1177
Delta R.T. -0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

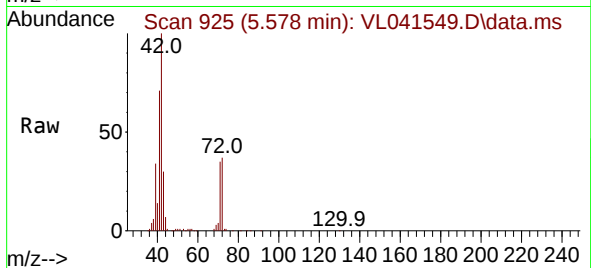
Tgt Ion: 78 Resp: 35010
Ion Ratio Lower Upper
78 100
77 25.1 18.1 27.1
50 21.8 15.5 23.3





#41
Tetrahydrofuran
Concen: 4.099 ppbv
RT: 5.578 min Scan# 914
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

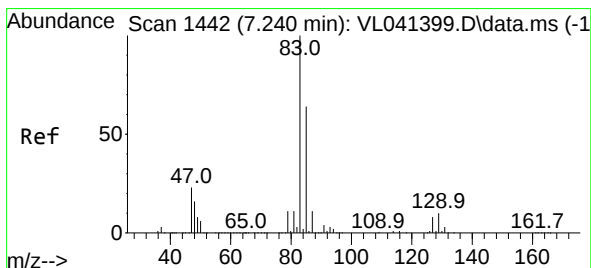
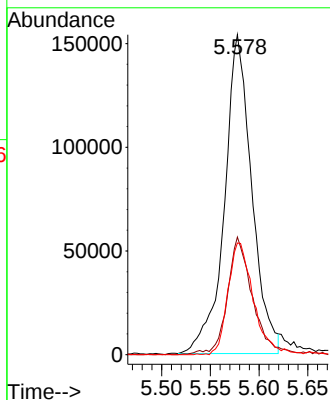
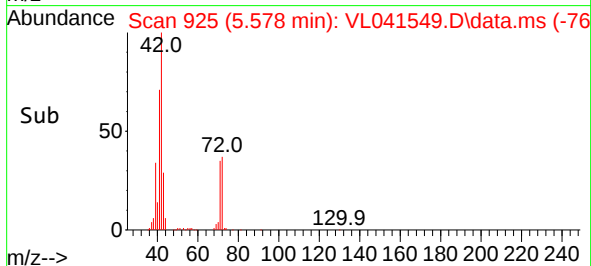
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 42 Resp: 29971
Ion Ratio Lower Upper
42 100
72 34.6 31.2 46.8
71 33.3 30.5 45.7

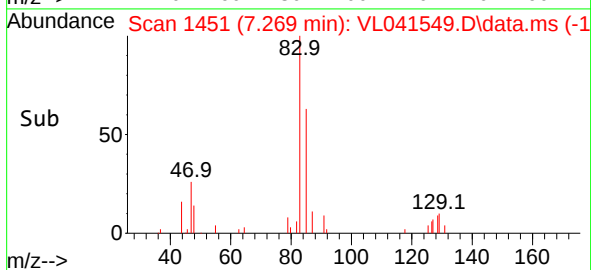
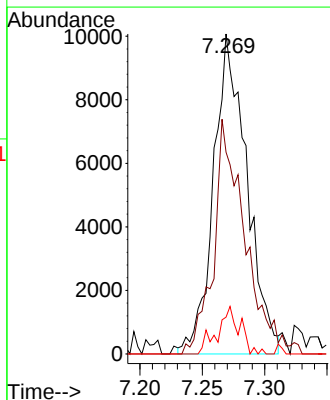
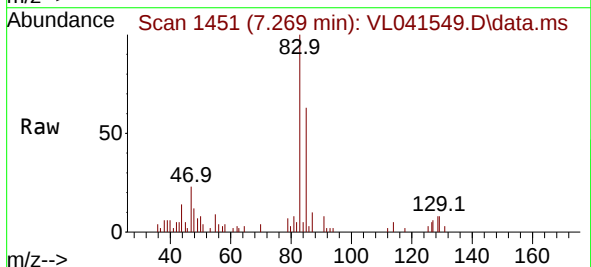
Manual Integrations
APPROVED

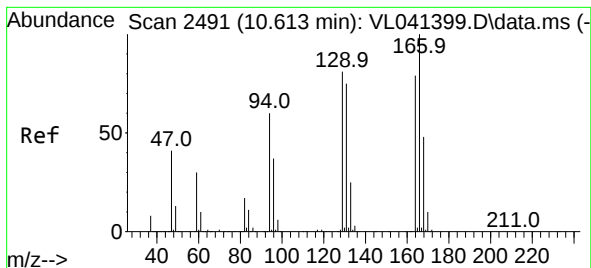
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#42
Bromodichloromethane
Concen: 0.120 ppbv
RT: 7.269 min Scan# 1451
Delta R.T. 0.000 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

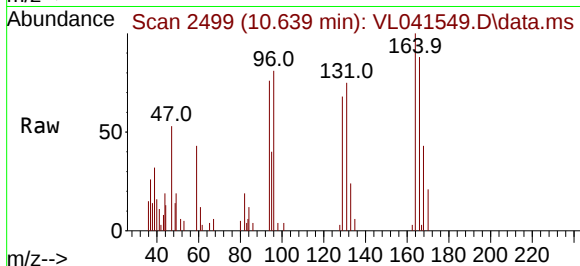
Tgt Ion: 83 Resp: 18705
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.0
127 11.7 6.7 10.1#





#52
Tetrachloroethene
Concen: 0.136 ppbv m
RT: 10.639 min Scan# 2491
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

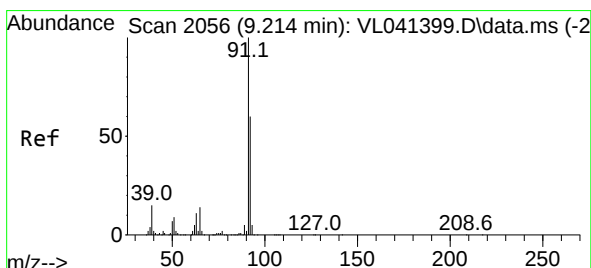
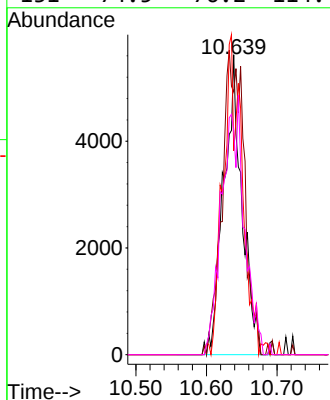
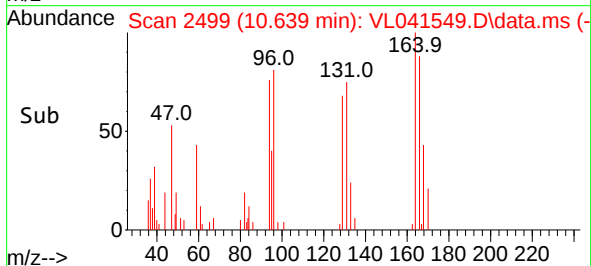
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 10179
Ion Ratio Lower Upper
164 100
166 87.6 101.1 151.7
129 68.0 81.7 122.5
131 74.5 76.2 114.4

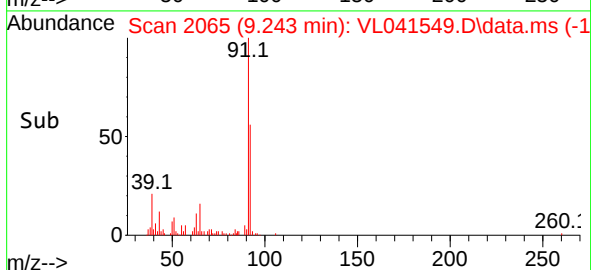
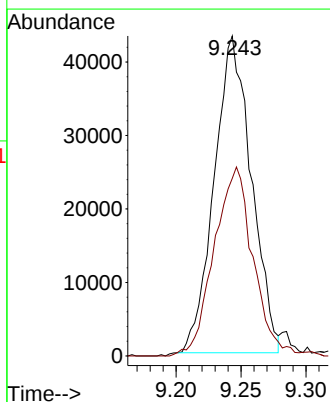
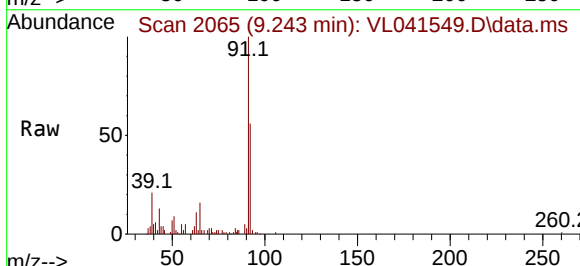
Manual Integrations
APPROVED

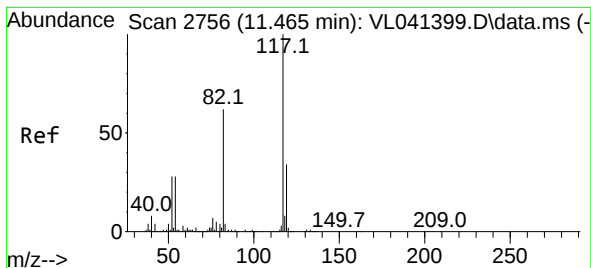
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#53
Toluene
Concen: 0.399 ppbv
RT: 9.243 min Scan# 2065
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

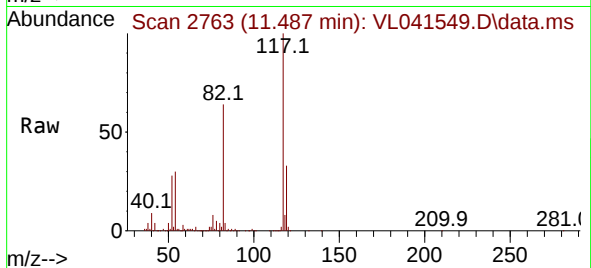
Tgt Ion: 91 Resp: 85799
Ion Ratio Lower Upper
91 100
92 62.8 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 211
Delta R.T. -0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

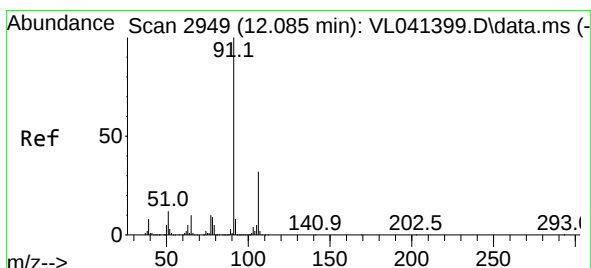
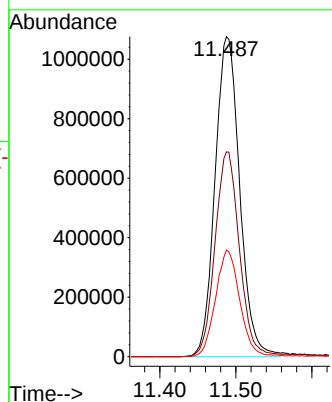
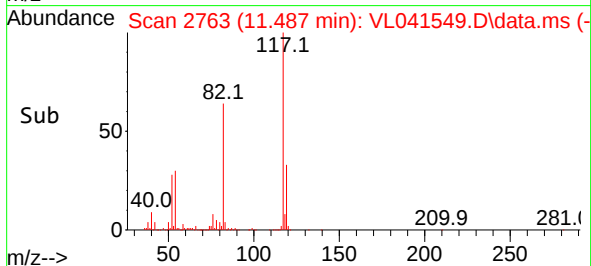
Instrument :
MSVOA_L
ClientSampleId :
IA1



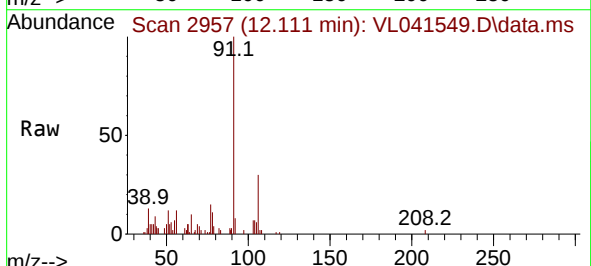
Tgt Ion: 117 Resp: 242289
Ion Ratio Lower Upper
117 100
82 64.6 51.0 76.6
119 32.9 45.2 67.8

Manual Integrations
APPROVED

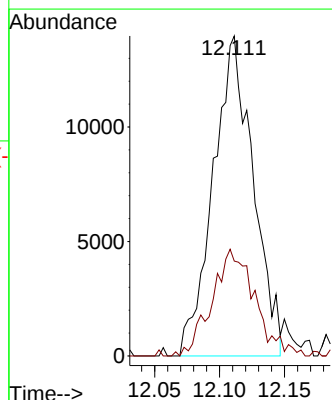
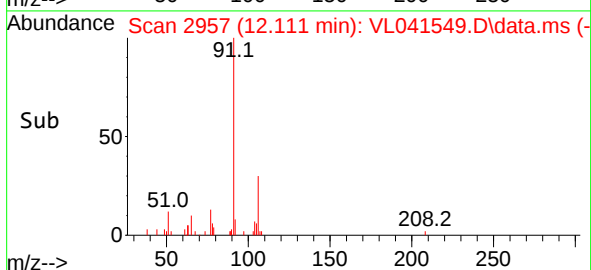
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

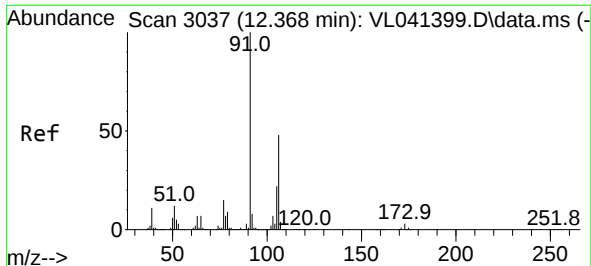


#58
Ethyl Benzene
Concen: 0.107 ppbv
RT: 12.111 min Scan# 2957
Delta R.T. 0.000 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40



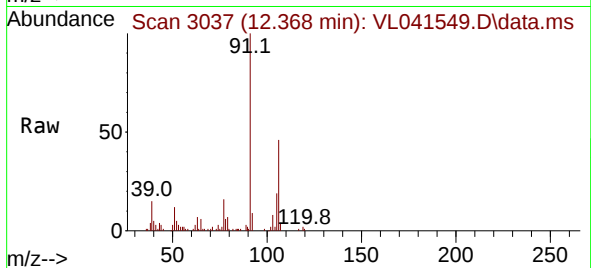
Tgt Ion: 91 Resp: 29979
Ion Ratio Lower Upper
91 100
106 29.6 25.8 38.8





#59
m/p-Xylene
Concen: 0.487 ppbv m
RT: 12.368 min Scan# 3037
Delta R.T. -0.026 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

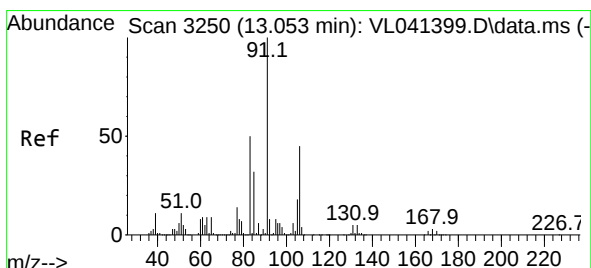
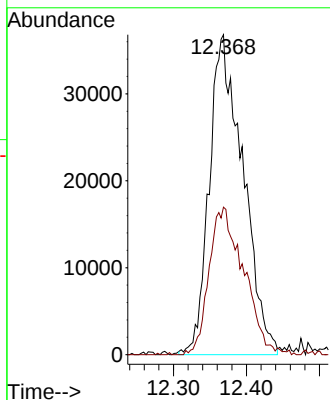
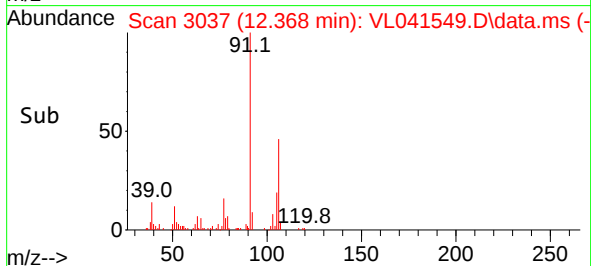
Instrument :
MSVOA_L
ClientSampleId :
IA1



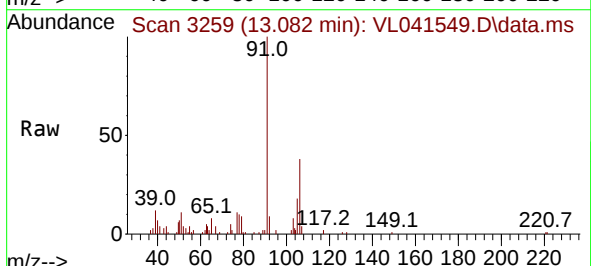
Tgt Ion: 91 Resp: 117480
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5

Manual Integrations
APPROVED

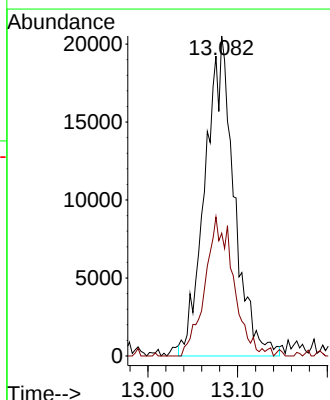
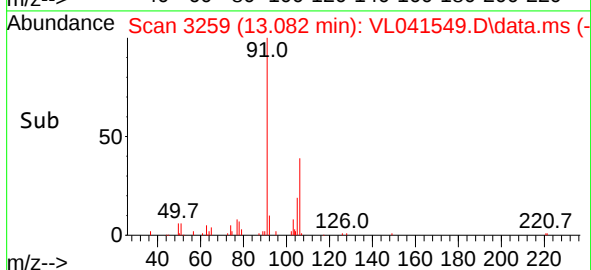
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

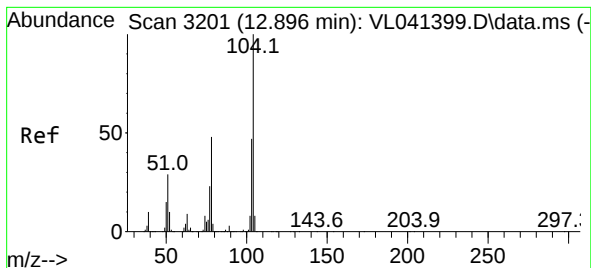


#60
o-Xylene
Concen: 0.203 ppbv m
RT: 13.082 min Scan# 3259
Delta R.T. 0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40



Tgt Ion: 91 Resp: 46268
Ion Ratio Lower Upper
91 100
106 43.1 23.1 69.3





#61

Styrene

Concen: 0.151 ppbv m

RT: 12.921 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041549.D

Acq: 19 Aug 2024 15:40

Instrument :

MSVOA_L

ClientSampleId :

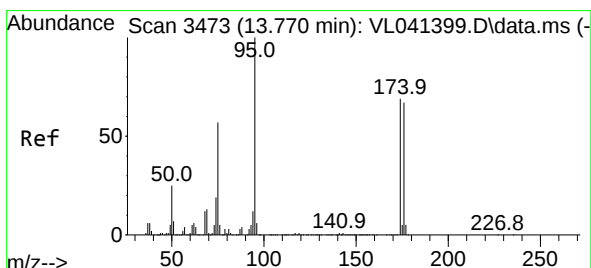
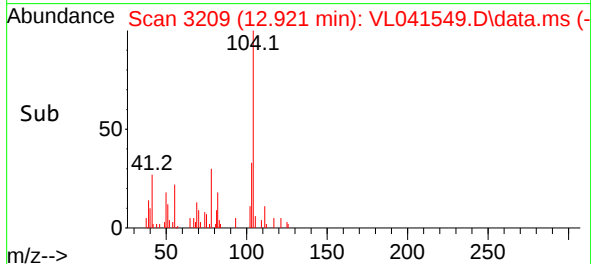
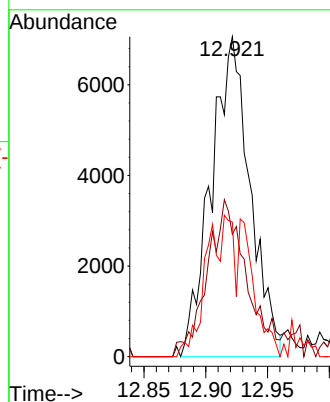
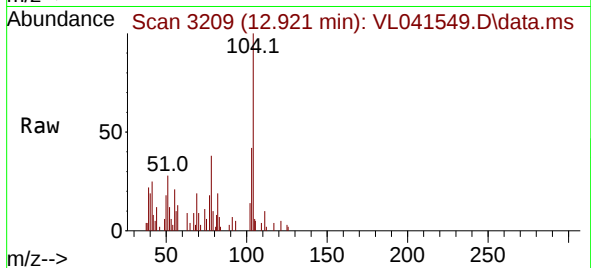
IA1

Tgt Ion:	104	Resp:	15550
Ion	Ratio	Lower	Upper
104	100		
78	53.5	40.8	61.2
103	51.9	38.2	57.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 10.313 ppbv

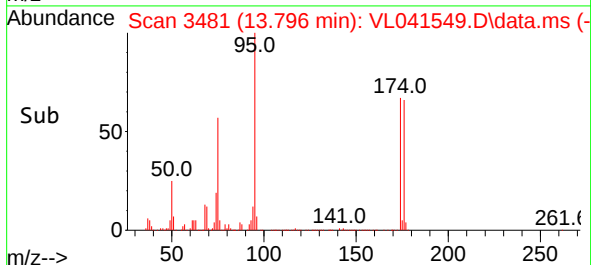
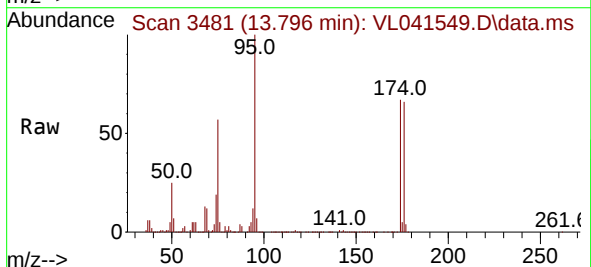
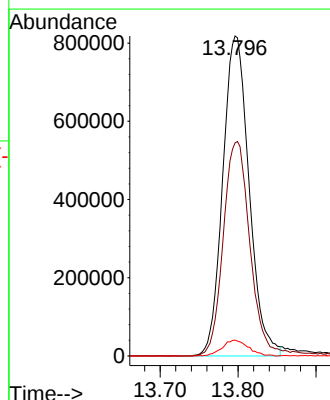
RT: 13.796 min Scan# 3481

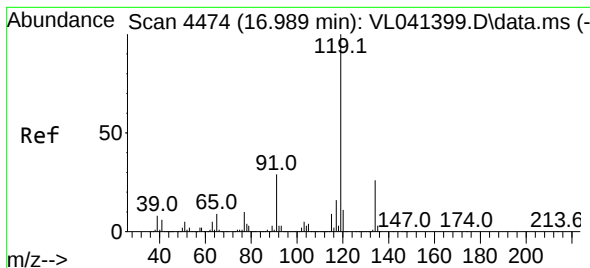
Delta R.T. -0.003 min

Lab File: VL041549.D

Acq: 19 Aug 2024 15:40

Tgt Ion:	95	Resp:	1922852
Ion	Ratio	Lower	Upper
95	100		
174	69.7	56.3	84.5
175	5.0	4.0	6.0





#69

p-Isopropyltoluene

Concen: 0.447 ppbv

RT: 17.018 min Scan# 4474

Delta R.T. 0.000 min

Lab File: VL041549.D

Acq: 19 Aug 2024 15:40

Instrument :

MSVOA_L

ClientSampleId :

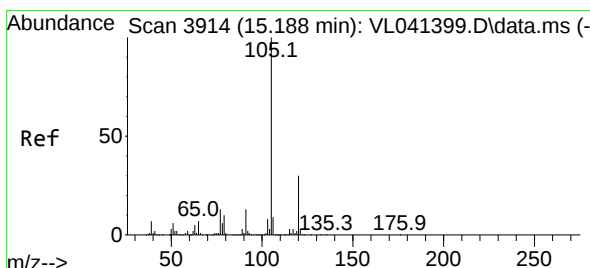
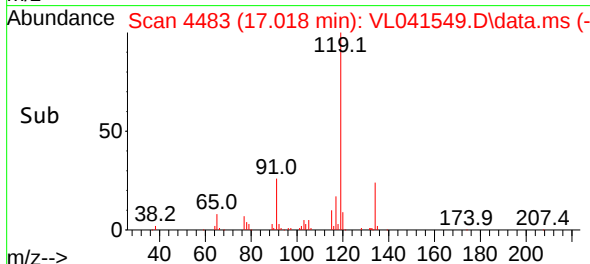
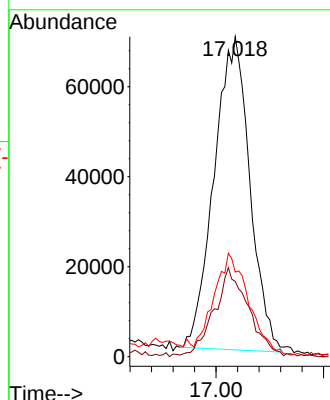
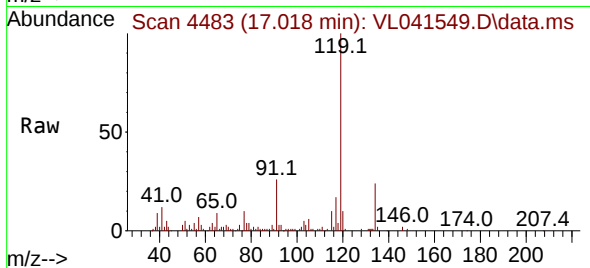
IA1

Tgt Ion:	119	Resp:	16019
Ion Ratio	Lower	Upper	
119	100		
134	27.9	20.5	30.7
91	33.9	23.2	34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#72

4-Ethyltoluene

Concen: 0.167 ppbv

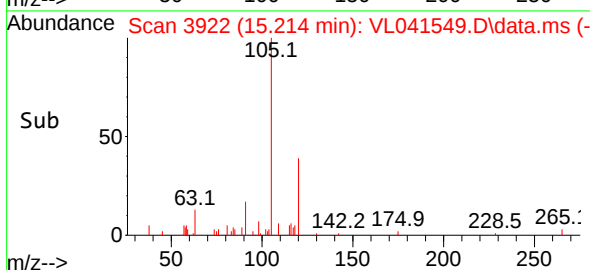
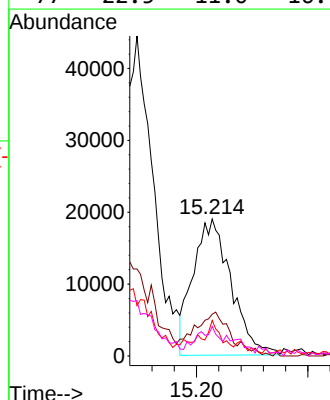
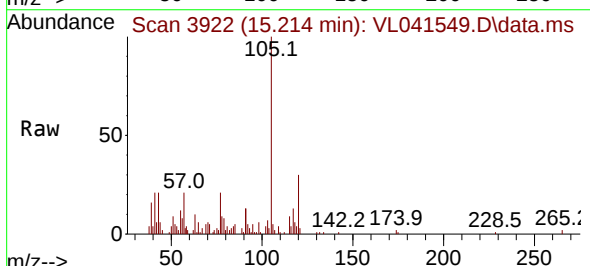
RT: 15.214 min Scan# 3922

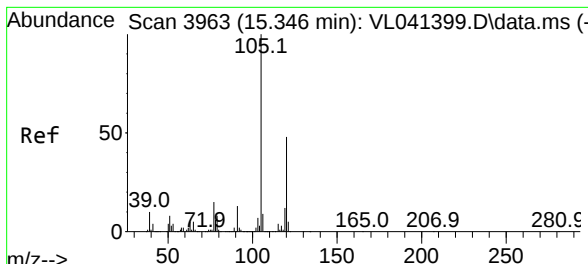
Delta R.T. 0.000 min

Lab File: VL041549.D

Acq: 19 Aug 2024 15:40

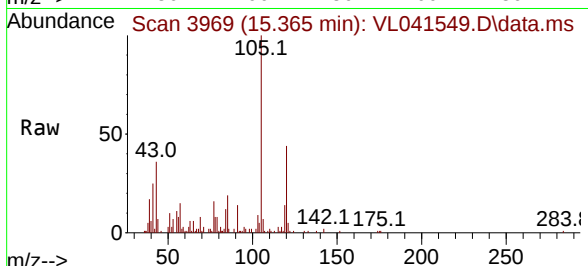
Tgt Ion:	105	Resp:	44888
Ion Ratio	Lower	Upper	
105	100		
120	31.8	24.2	36.2
91	17.0	10.4	15.6#
77	22.5	11.0	16.4#





#73
 1,3,5-Trimethylbenzene
 Concen: 0.248 ppbv m
 RT: 15.365 min Scan# 3969
 Delta R.T. -0.006 min
 Lab File: VL041549.D
 Acq: 19 Aug 2024 15:40

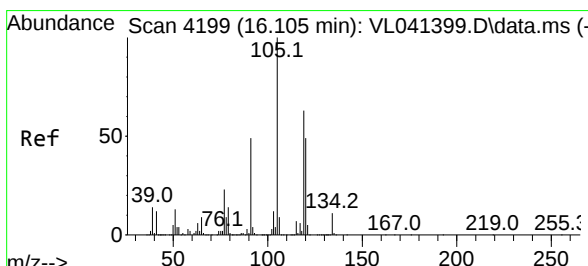
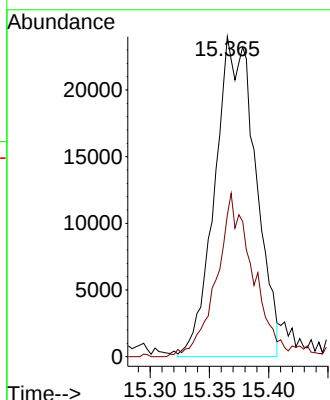
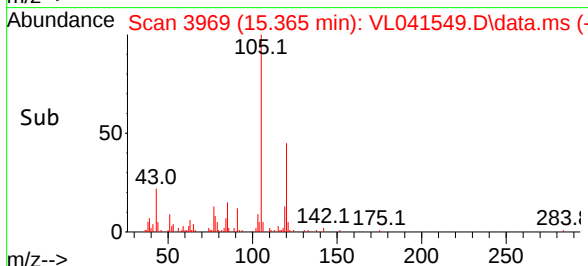
Instrument : MSVOA_1
 ClientSampleId : IA1



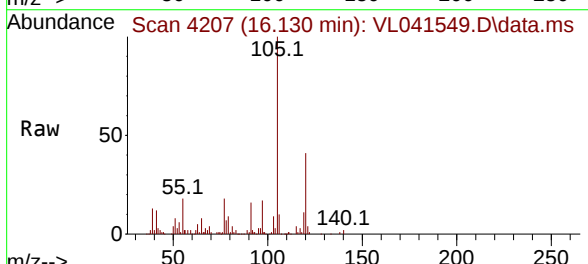
Tgt Ion:105 Resp: 5726
 Ion Ratio Lower Upper
 105 100
 120 44.3 38.6 57.8

Manual Integrations
 APPROVED

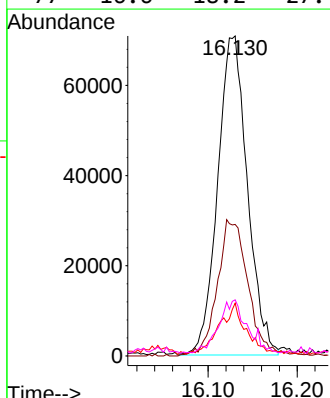
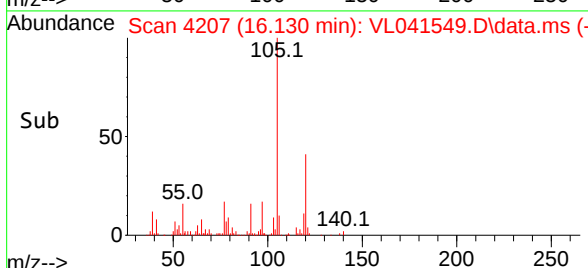
Reviewed By :Semsettin Yesilyurt 08/20/2024
 Supervised By :Mahesh Dadoda 08/20/2024

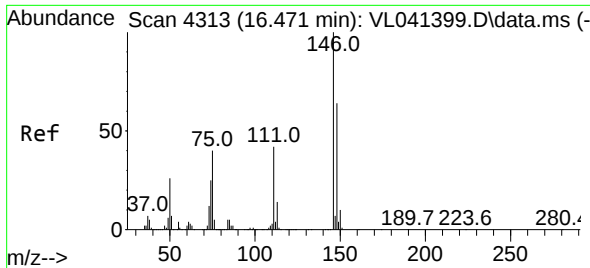


#74
 1,2,4-Trimethylbenzene
 Concen: 0.611 ppbv
 RT: 16.130 min Scan# 4207
 Delta R.T. 0.003 min
 Lab File: VL041549.D
 Acq: 19 Aug 2024 15:40



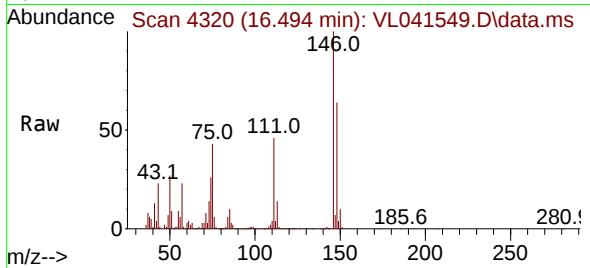
Tgt Ion:105 Resp: 164218
 Ion Ratio Lower Upper
 105 100
 120 40.6 39.5 59.3
 91 16.1 39.8 59.8#
 77 16.6 18.2 27.4#





#76
1,4-Dichlorobenzene
Concen: 8.867 ppbv
RT: 16.494 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

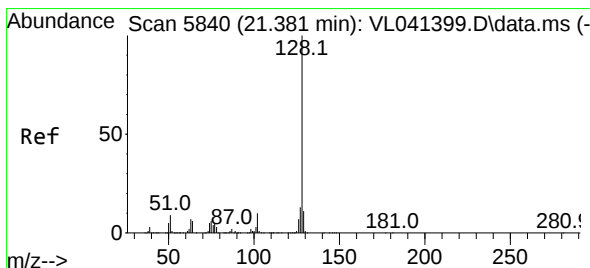
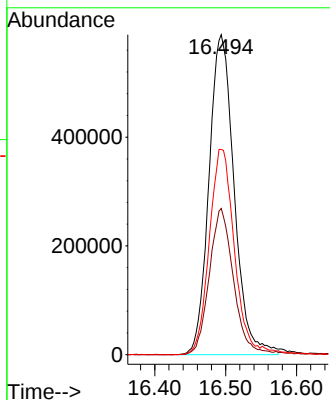
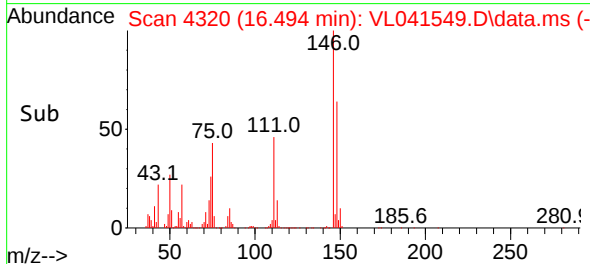
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:146 Resp: 1451235
Ion Ratio Lower Upper
146 100
111 44.3 22.4 67.0
148 64.9 33.1 99.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#79
Naphthalene
Concen: 9.021 ppbv
RT: 21.407 min Scan# 5848
Delta R.T. -0.003 min
Lab File: VL041549.D
Acq: 19 Aug 2024 15:40

Tgt Ion:128 Resp: 2141070
Ion Ratio Lower Upper
128 100
127 12.1 10.3 15.5
129 11.0 9.0 13.4

