

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041747.D
 Acq On : 12 Dec 2024 12:37
 Operator : SY/MD
 Sample : P5150-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 15:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	235470	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.933	114	1097568	10.000	ppbv	-0.04
55) Chlorobenzene-d5	8.862	117	968906	10.000	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	657921	10.329	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.300%
Target Compounds						
					Qvalue	
9) Propene	1.476	41	3406	0.249	ppbv	99
10) Heptane	4.949	43	33965	0.899	ppbv	99
13) Ethanol	1.712	45	2343	2.072	ppbv #	34
15) Acetone	1.826	43	25668	0.944	ppbv	91
19) Isopropyl Alcohol	1.877	45	7912	0.306	ppbv #	35
20) Methylene Chloride	2.049	84	2471	0.150	ppbv	94
26) Hexane	2.810	57	53074	1.448	ppbv #	43
30) Cyclohexane	3.832	84	20256	0.492	ppbv	92
31) cis-1,2-Dichloroethene	2.706	61	23022	0.678	ppbv	98
34) 2-Butanone	2.547	43	18249	0.475	ppbv	97
36) Benzene	3.632	78	14799	0.171	ppbv	94
38) Trichloroethene	4.522	130	16168m	0.361	ppbv	
41) Tetrahydrofuran	3.049	42	6959	0.300	ppbv	98
52) Tetrachloroethene	8.202	164	285984	6.255	ppbv	99
53) Toluene	6.901	91	88068	0.830	ppbv	100
58) Ethyl Benzene	9.338	91	43866	0.338	ppbv	100
59) m/p-Xylene	9.513	91	75214	0.757	ppbv	98
60) o-Xylene	9.950	91	34917	0.354	ppbv	94
62) Isopropylbenzene	10.522	105	17437	0.107	ppbv	96
64) n-propylbenzene	10.979	120	9672	0.202	ppbv	75
72) 4-Ethyltoluene	11.112	105	20730m	0.163	ppbv	
73) 1,3,5-Trimethylbenzene	11.192	105	21547	0.209	ppbv	96
74) 1,2,4-Trimethylbenzene	11.526	105	39130	0.350	ppbv #	67

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

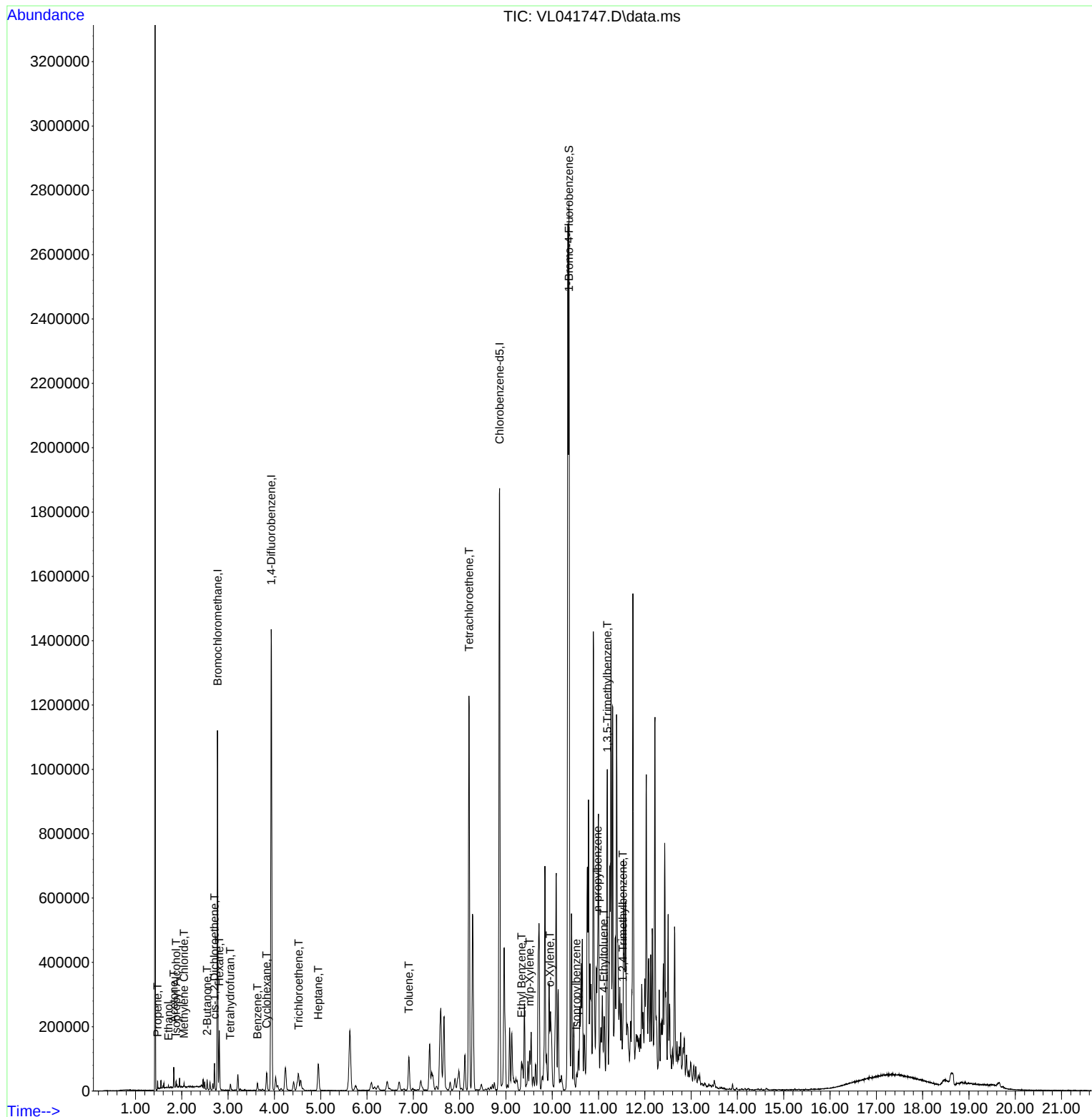
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Data File : VL041747.D
Acq On : 12 Dec 2024 12:37
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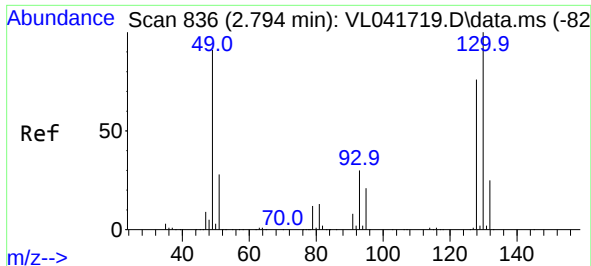
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Quant Time: Dec 12 15:07:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration

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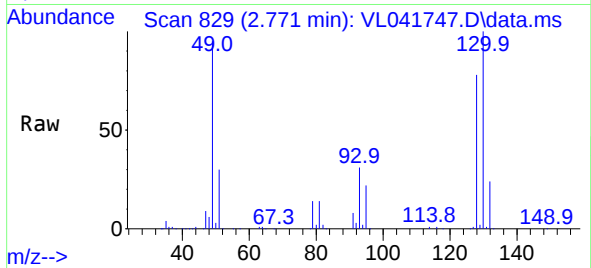
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.771 min Scan# 81
Delta R.T. -0.023 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

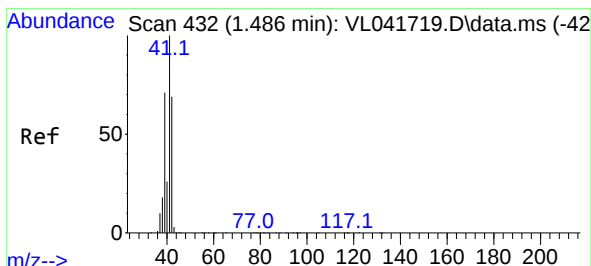
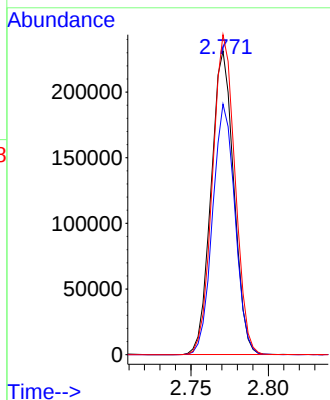
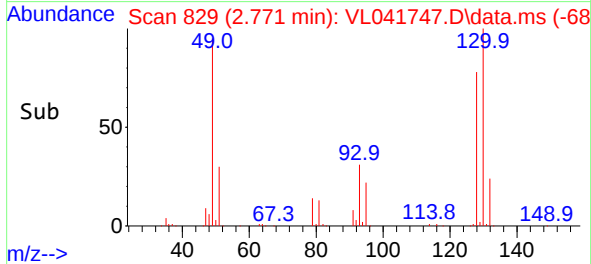
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion: 49 Resp: 235470
Ion Ratio Lower Upper
49 100
128 81.5 42.8 128.3
130 105.0 55.8 167.4

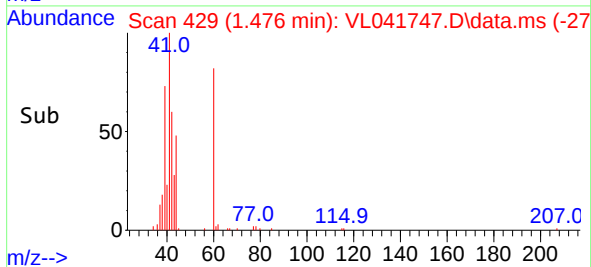
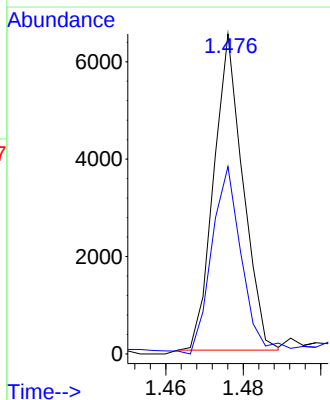
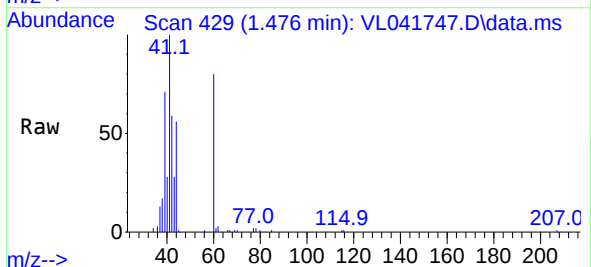
Manual Integrations
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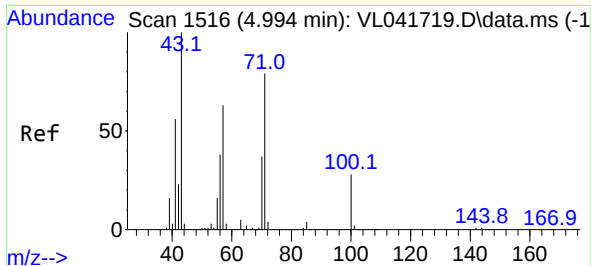
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#9
Propene
Concen: 0.249 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.010 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Tgt Ion: 41 Resp: 3406
Ion Ratio Lower Upper
41 100
42 69.3 56.2 84.4





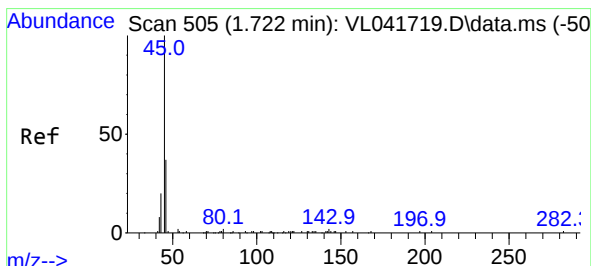
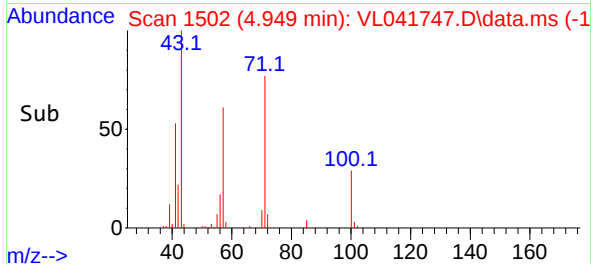
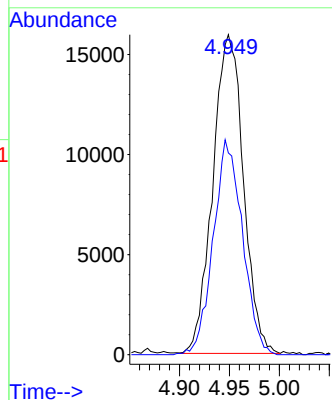
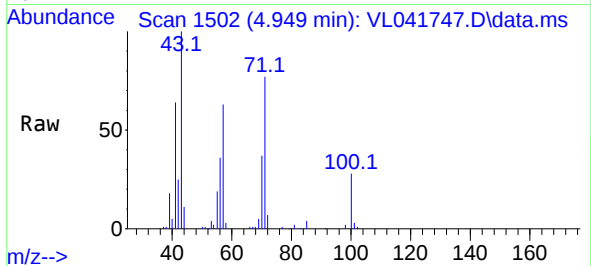
#10
Heptane
Concen: 0.899 ppbv
RT: 4.949 min Scan# 11
Delta R.T. -0.045 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion: 43 Resp: 3396
Ion Ratio Lower Upper
43 100
57 64.2 50.5 75.7

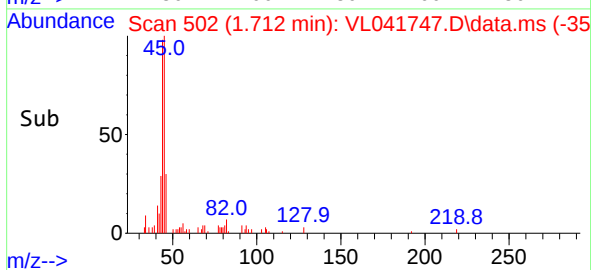
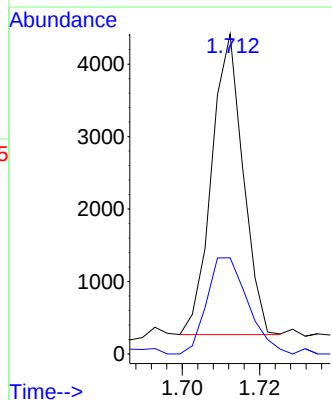
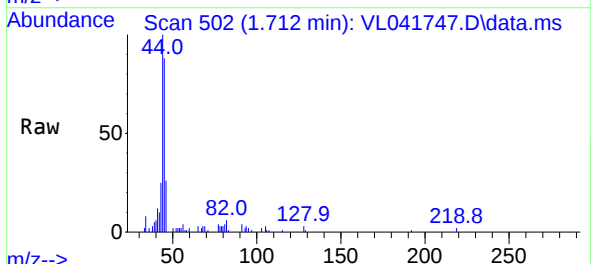
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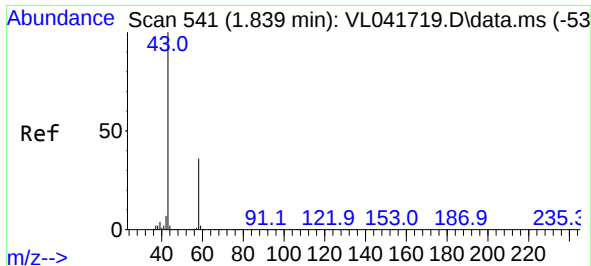
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#13
Ethanol
Concen: 2.072 ppbv
RT: 1.712 min Scan# 502
Delta R.T. -0.010 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

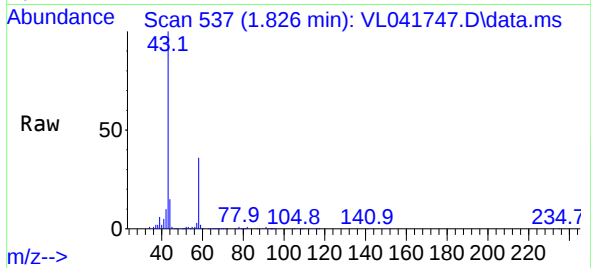
Tgt Ion: 45 Resp: 2343
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.6#





#15
Acetone
Concen: 0.944 ppbv
RT: 1.826 min Scan# 51
Delta R.T. -0.013 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

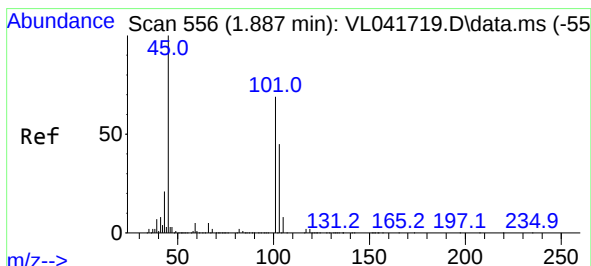
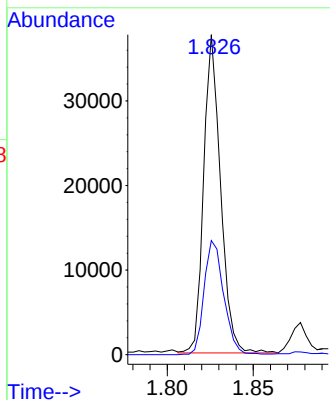
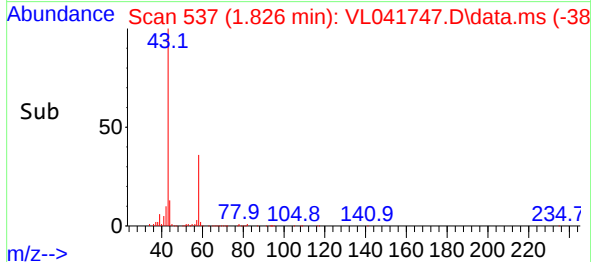
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



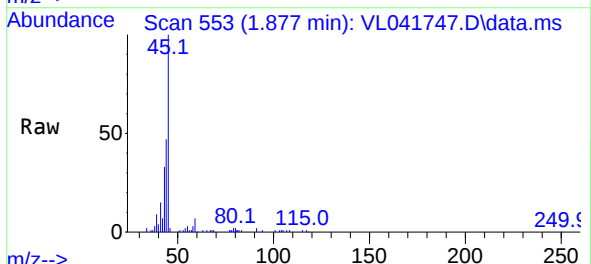
Tgt Ion: 43 Resp: 2566
Ion Ratio Lower Upper
43 100
58 41.7 28.9 43.3

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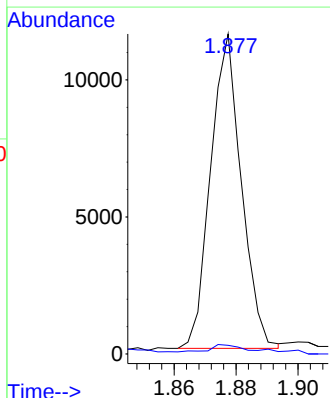
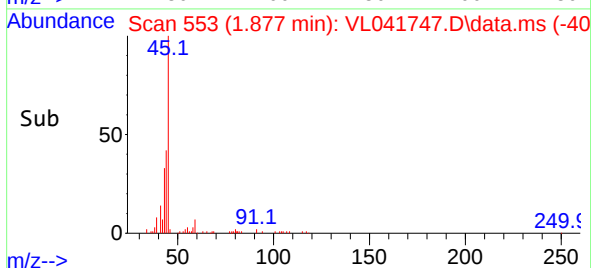
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

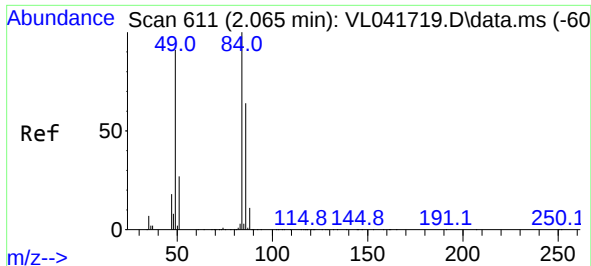


#19
Isopropyl Alcohol
Concen: 0.306 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.010 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



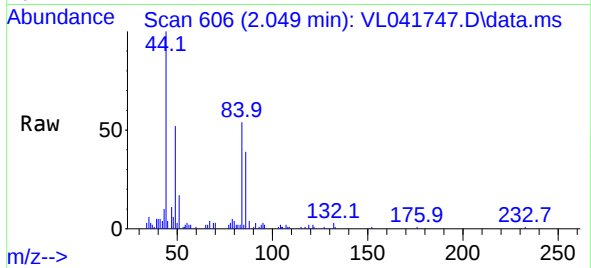
Tgt Ion: 45 Resp: 7912
Ion Ratio Lower Upper
45 100
58 5.4 40.6 61.0#





#20
Methylene Chloride
Concen: 0.150 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.016 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

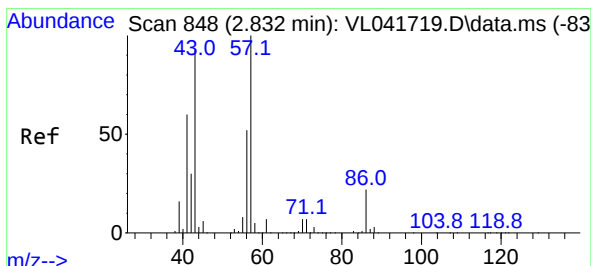
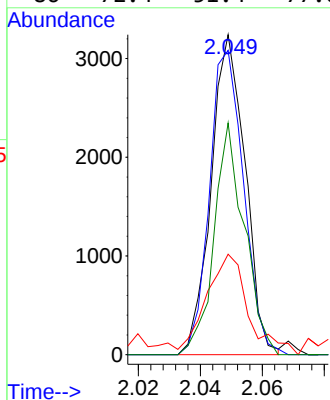
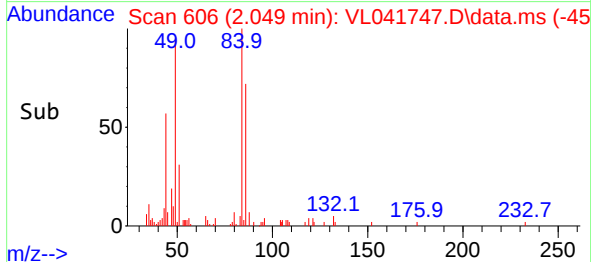
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion: 84 Resp: 247
Ion Ratio Lower Upper
84 100
49 95.1 73.6 110.4
51 29.8 22.7 34.1
86 72.4 51.4 77.0

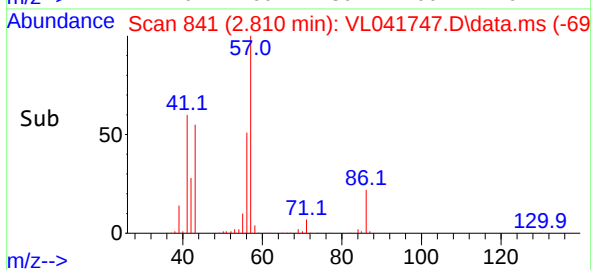
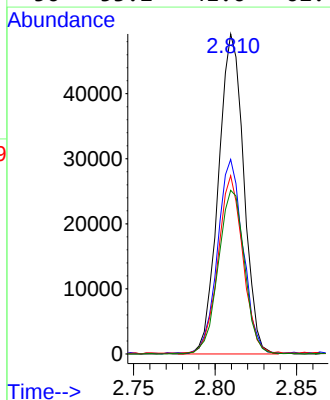
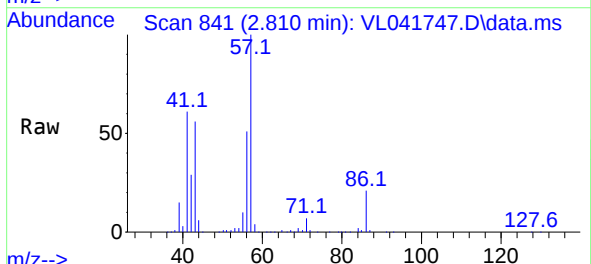
Manual Integrations
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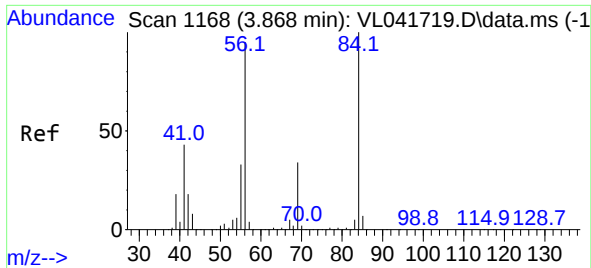
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#26
Hexane
Concen: 1.448 ppbv
RT: 2.810 min Scan# 841
Delta R.T. -0.023 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

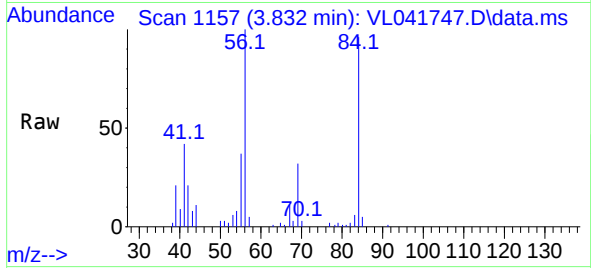
Tgt Ion: 57 Resp: 53074
Ion Ratio Lower Upper
57 100
41 61.1 49.5 74.3
43 54.9 150.6 225.8#
56 53.2 41.6 62.4





#30
Cyclohexane
Concen: 0.492 ppbv
RT: 3.832 min Scan# 1168
Delta R.T. -0.036 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

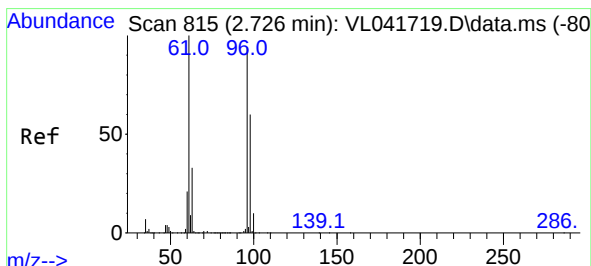
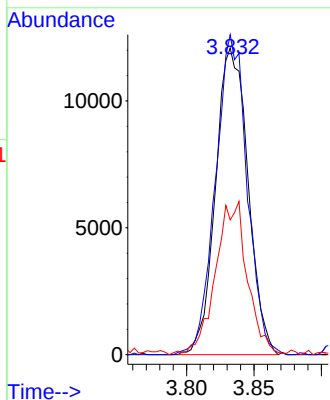
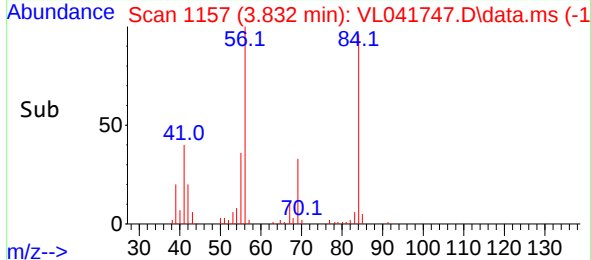
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion: 84 Resp: 20250
Ion Ratio Lower Upper
84 100
56 101.9 76.0 114.0
41 49.4 34.2 51.4

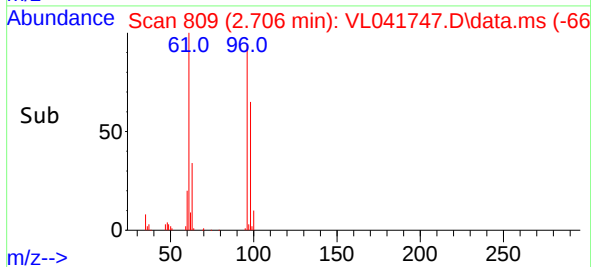
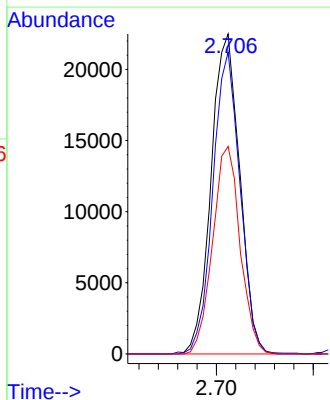
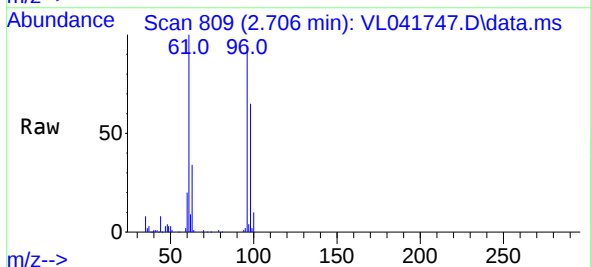
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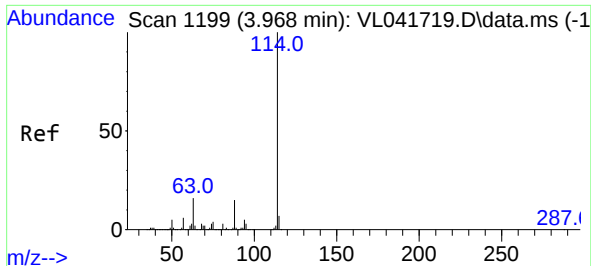
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#31
cis-1,2-Dichloroethene
Concen: 0.678 ppbv
RT: 2.706 min Scan# 809
Delta R.T. -0.020 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

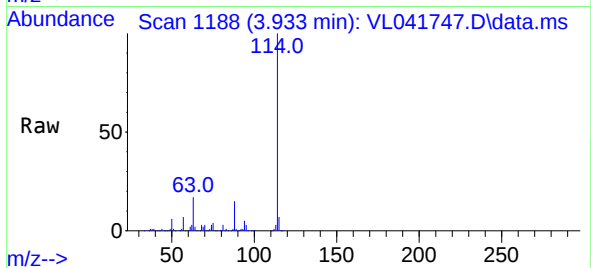
Tgt Ion: 61 Resp: 23022
Ion Ratio Lower Upper
61 100
96 94.0 75.4 113.2
98 64.9 48.3 72.5





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.933 min Scan# 1199
Delta R.T. -0.036 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

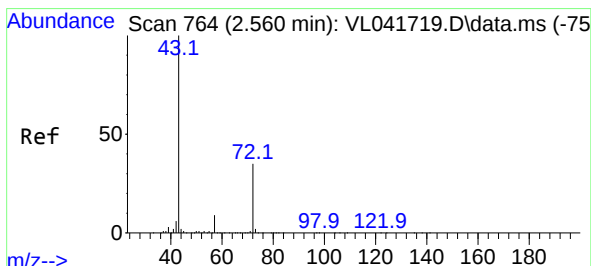
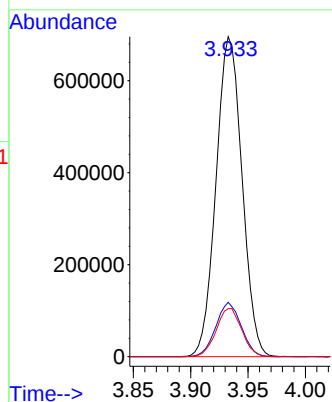
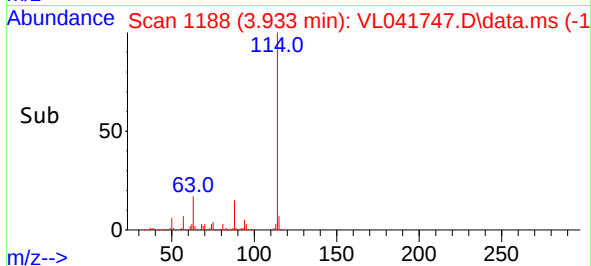
Instrument :
MSVOA_L
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SV3DL



Tgt Ion:114 Resp: 109756
Ion Ratio Lower Upper
114 100
63 16.6 12.9 19.3
88 14.8 11.8 17.6

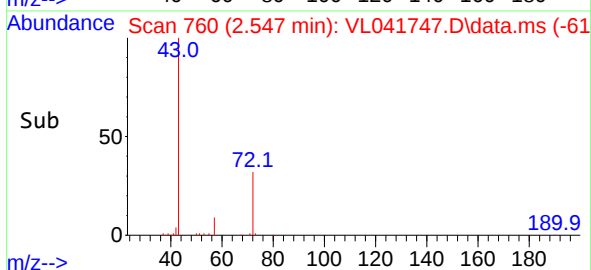
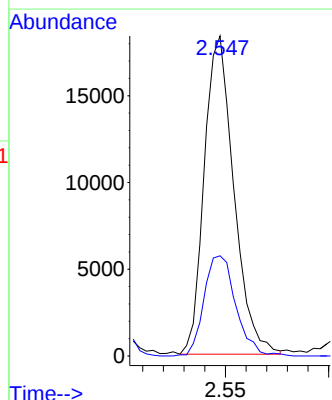
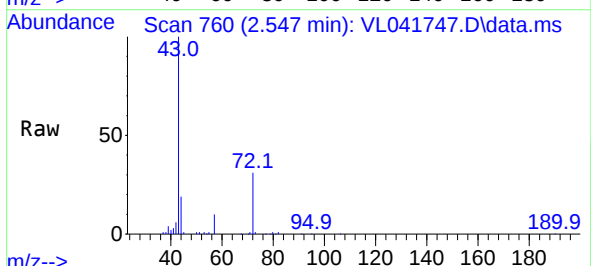
Manual Integrations
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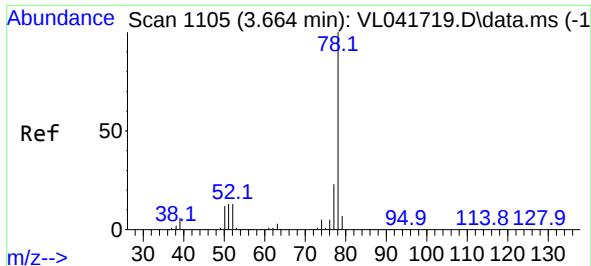
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#34
2-Butanone
Concen: 0.475 ppbv
RT: 2.547 min Scan# 760
Delta R.T. -0.013 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

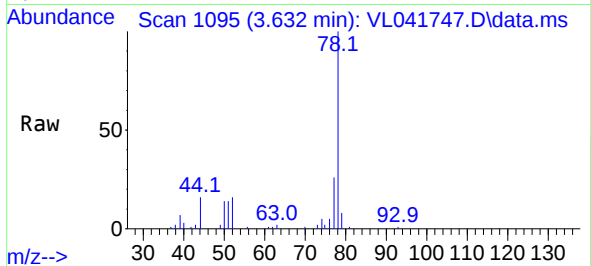
Tgt Ion: 43 Resp: 18249
Ion Ratio Lower Upper
43 100
72 33.9 28.3 42.5





#36
Benzene
Concen: 0.171 ppbv
RT: 3.632 min Scan# 1095
Delta R.T. -0.033 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

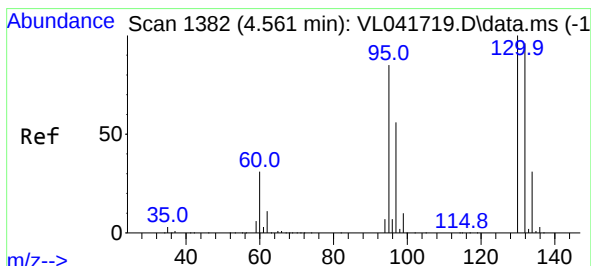
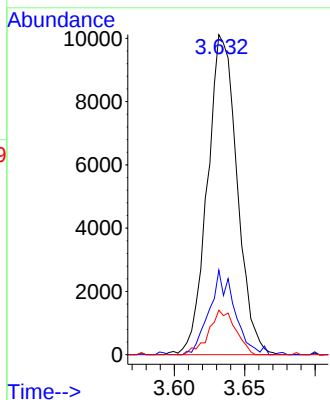
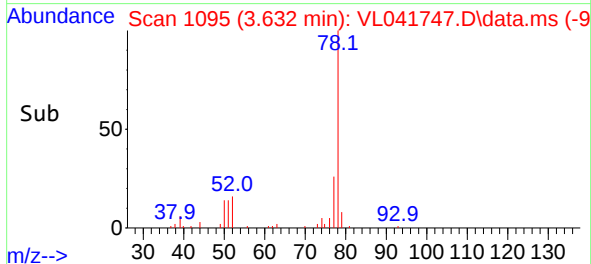
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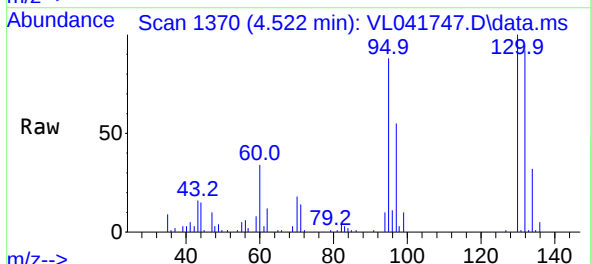
Tgt Ion: 78 Resp: 14799
Ion Ratio Lower Upper
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77 26.4 18.6 27.8
50 13.9 9.5 14.3

Manual Integrations
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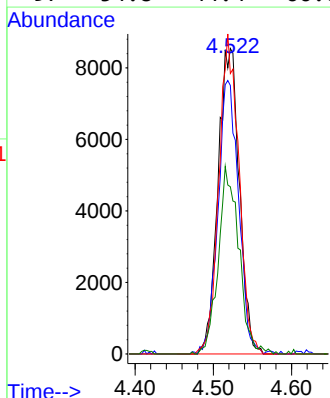
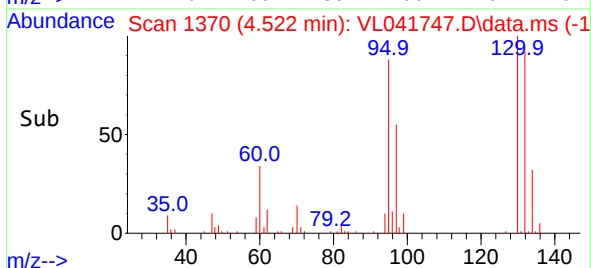
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

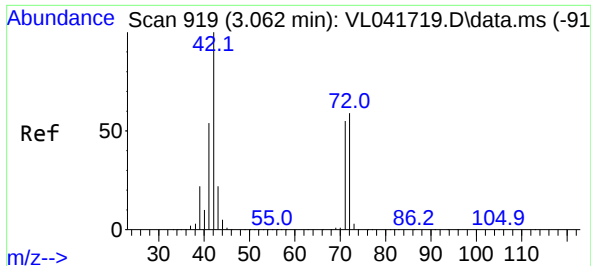


#38
Trichloroethene
Concen: 0.361 ppbv m
RT: 4.522 min Scan# 1370
Delta R.T. -0.039 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



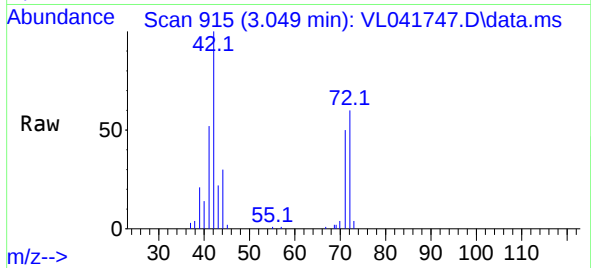
Tgt Ion:130 Resp: 16168
Ion Ratio Lower Upper
130 100
95 87.9 68.0 102.0
132 91.8 76.5 114.7
97 54.8 44.4 66.6





#41
Tetrahydrofuran
Concen: 0.300 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.013 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

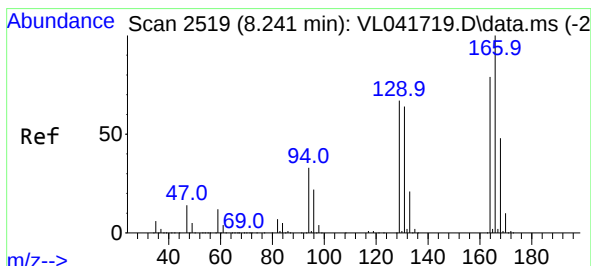
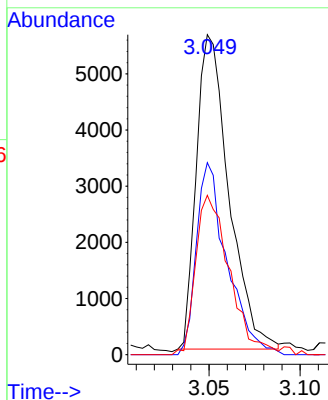
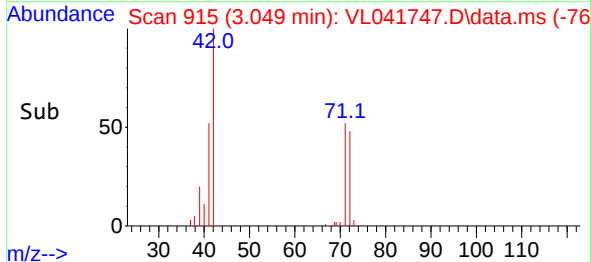
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



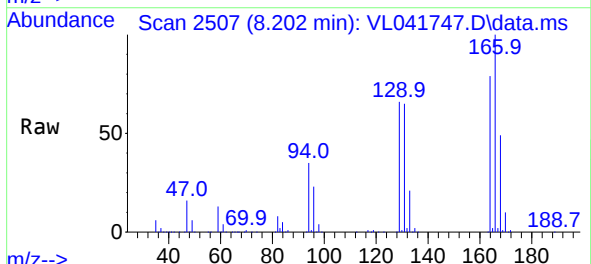
Tgt Ion: 42 Resp: 6958
Ion Ratio Lower Upper
42 100
72 57.6 47.4 71.0
71 53.8 44.4 66.6

Manual Integrations
APPROVED

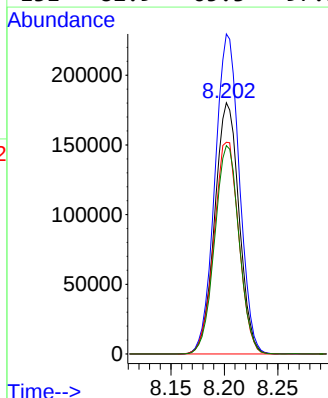
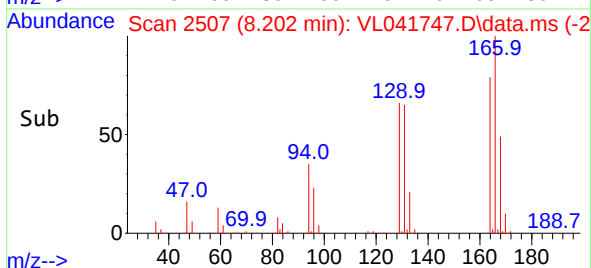
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

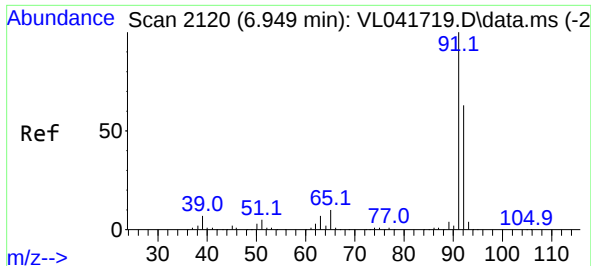


#52
Tetrachloroethene
Concen: 6.255 ppbv
RT: 8.202 min Scan# 2507
Delta R.T. -0.039 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



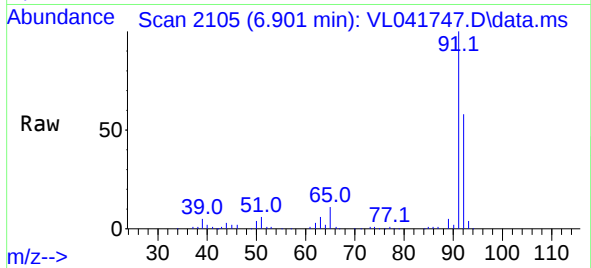
Tgt Ion:164 Resp: 285984
Ion Ratio Lower Upper
164 100
166 127.3 101.4 152.0
129 84.3 67.6 101.4
131 82.9 65.3 97.9





#53
Toluene
Concen: 0.830 ppbv
RT: 6.901 min Scan# 2105
Delta R.T. -0.049 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

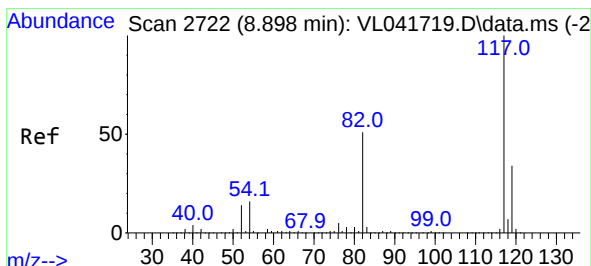
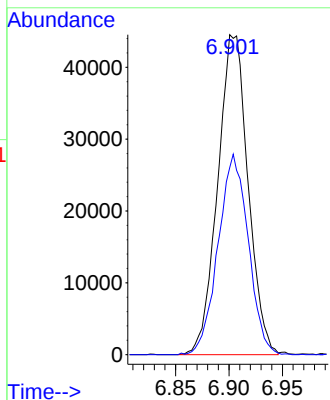
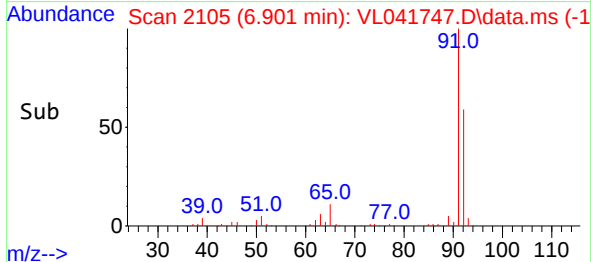
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



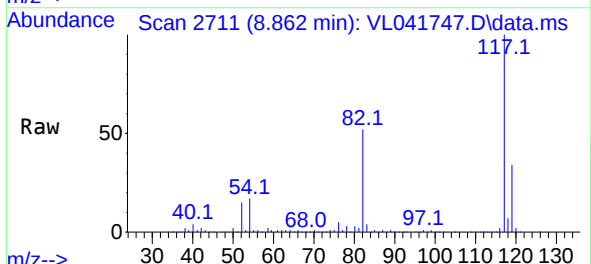
Tgt Ion: 91 Resp: 8806
Ion Ratio Lower Upper
91 100
92 62.2 49.7 74.5

Manual Integrations
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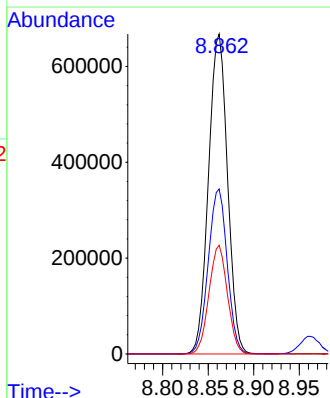
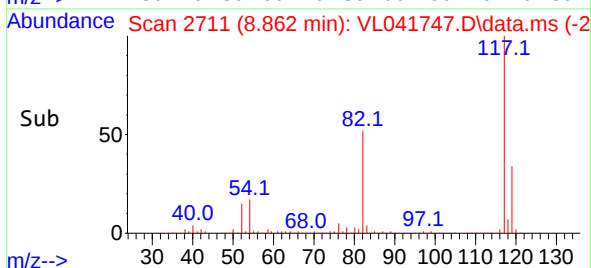
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

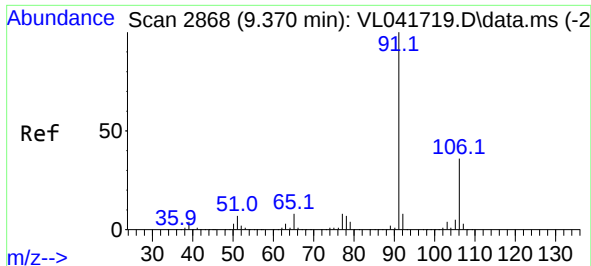


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.036 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



Tgt Ion:117 Resp: 968906
Ion Ratio Lower Upper
117 100
82 51.6 41.3 61.9
119 33.1 25.8 38.8





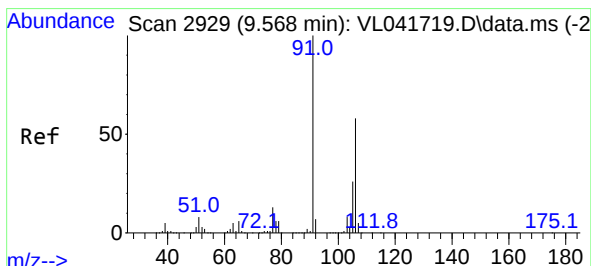
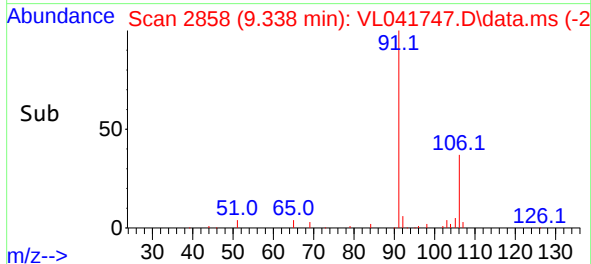
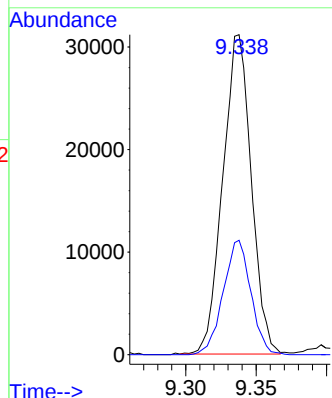
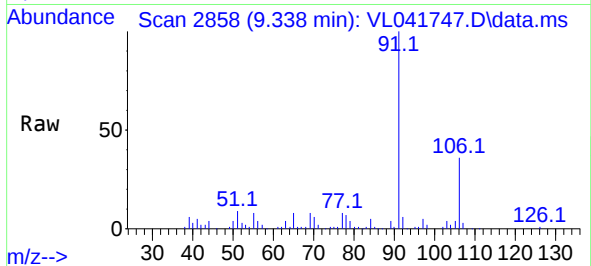
#58
Ethyl Benzene
Concen: 0.338 ppbv
RT: 9.338 min Scan# 21
Delta R.T. -0.033 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion: 91 Resp: 4386
Ion Ratio Lower Upper
91 100
106 35.8 28.6 43.0

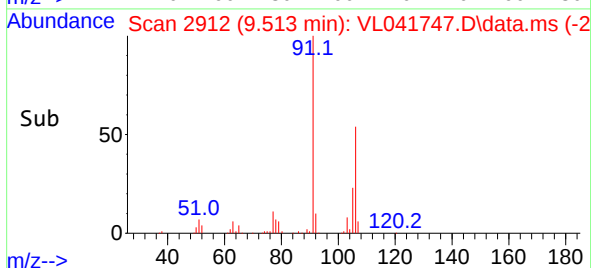
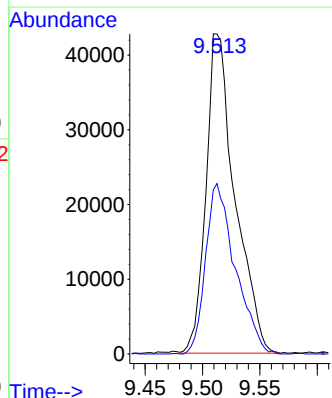
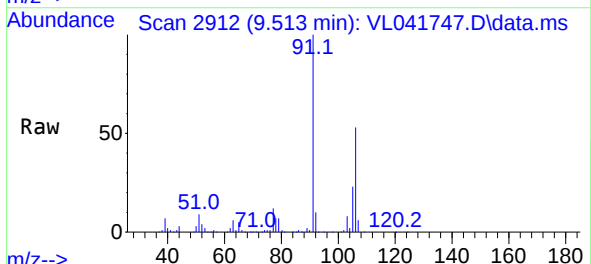
Manual Integrations
APPROVED

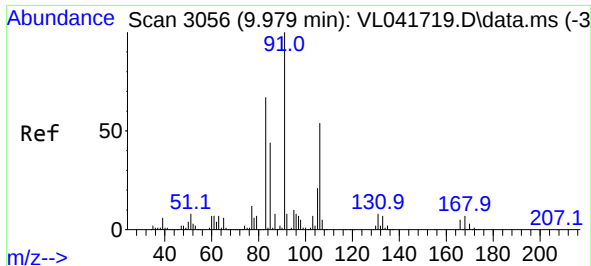
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#59
m/p-Xylene
Concen: 0.757 ppbv
RT: 9.513 min Scan# 2912
Delta R.T. -0.055 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

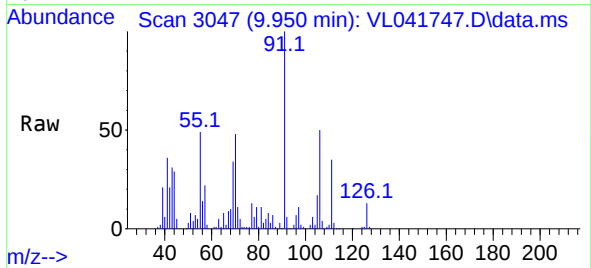
Tgt Ion: 91 Resp: 75214
Ion Ratio Lower Upper
91 100
106 54.6 45.1 67.7





#60
o-Xylene
Concen: 0.354 ppbv
RT: 9.950 min Scan# 3056
Delta R.T. -0.029 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

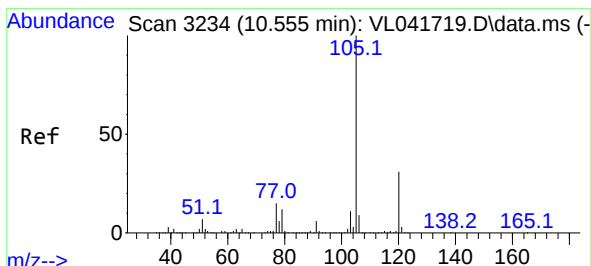
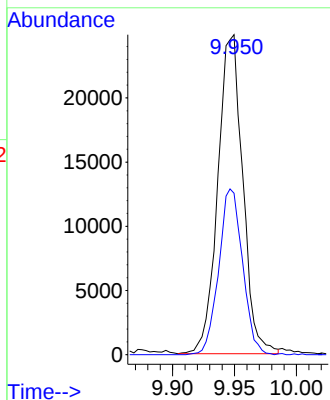
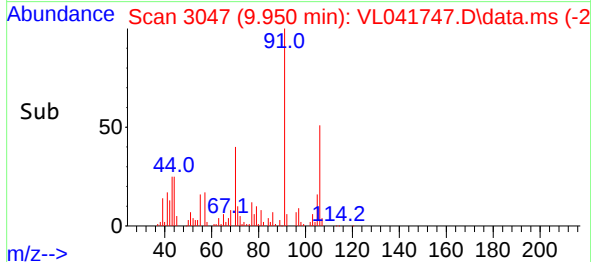
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



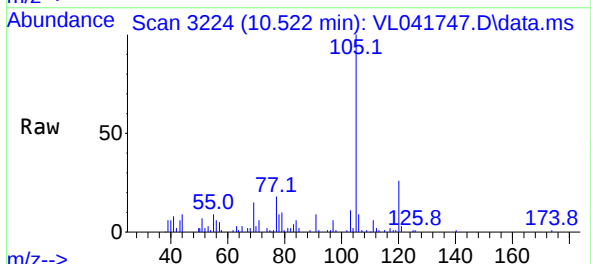
Tgt Ion: 91 Resp: 3491
Ion Ratio Lower Upper
91 100
106 49.7 26.8 80.4

Manual Integrations
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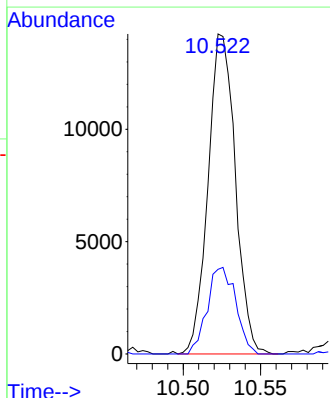
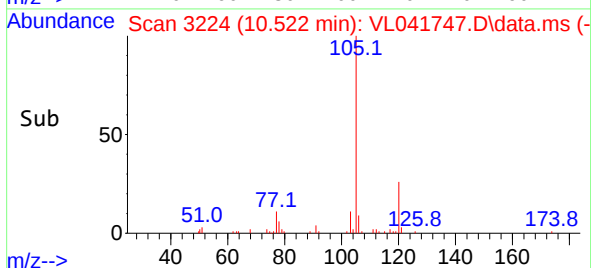
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

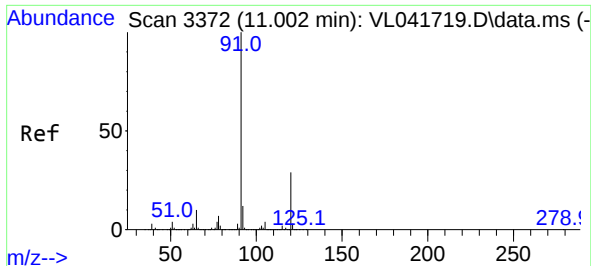


#62
Isopropylbenzene
Concen: 0.107 ppbv
RT: 10.522 min Scan# 3224
Delta R.T. -0.033 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



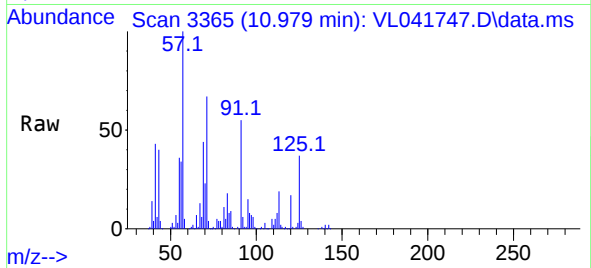
Tgt Ion:105 Resp: 17437
Ion Ratio Lower Upper
105 100
120 28.2 24.3 36.5





#64
n-propylbenzene
Concen: 0.202 ppbv
RT: 10.979 min Scan# 3174
Delta R.T. -0.023 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

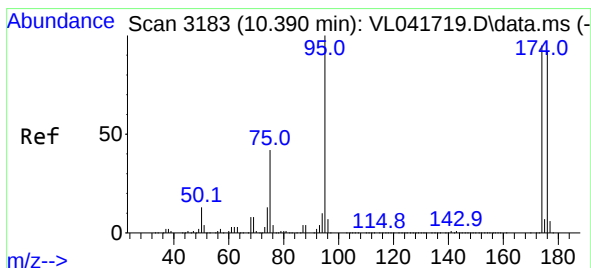
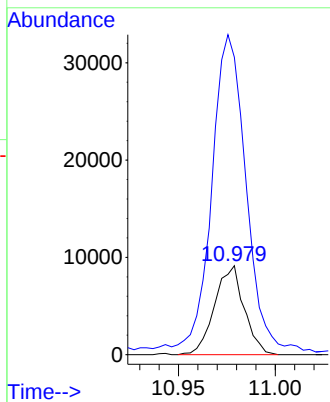
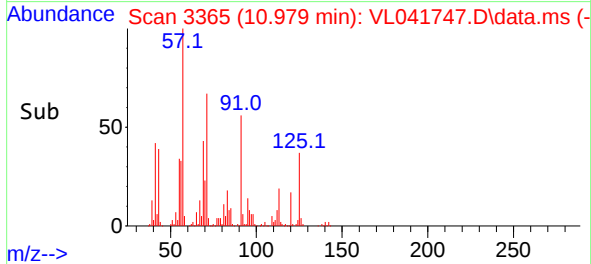
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



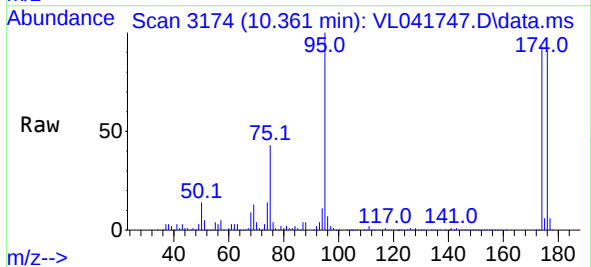
Tgt Ion:120 Resp: 9672
Ion Ratio Lower Upper
120 100
91 419.9 290.8 436.2

Manual Integrations
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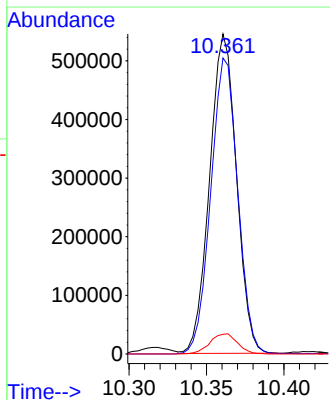
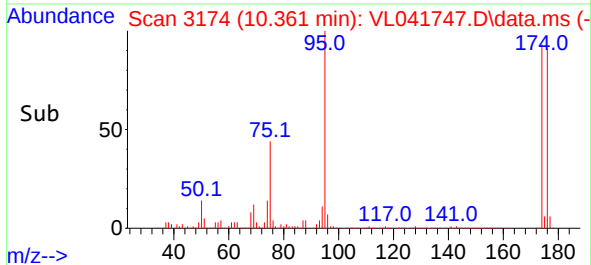
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

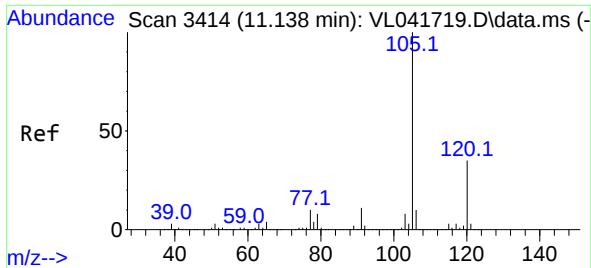


#68
1-Bromo-4-Fluorobenzene
Concen: 10.329 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. -0.029 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



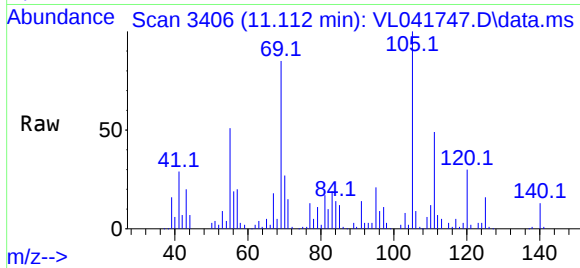
Tgt Ion: 95 Resp: 657921
Ion Ratio Lower Upper
95 100
174 93.1 76.7 115.1
175 6.5 5.4 8.2





#72
4-Ethyltoluene
Concen: 0.163 ppbv m
RT: 11.112 min Scan# 3414
Delta R.T. -0.026 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

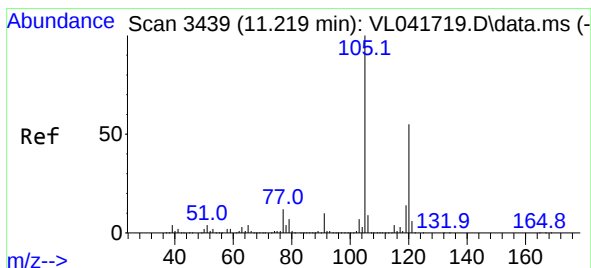
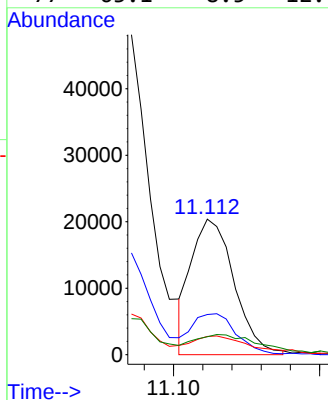
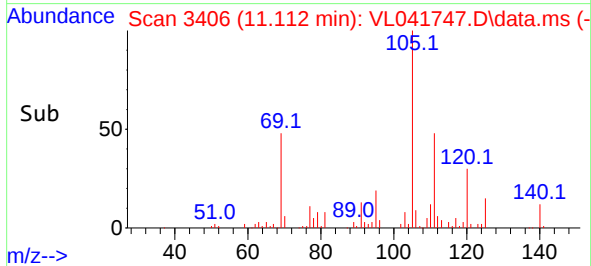
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion:105 Resp: 20730
Ion Ratio Lower Upper
105 100
120 126.3 28.0 42.0
91 59.3 8.8 13.2
77 63.1 8.5 12.7

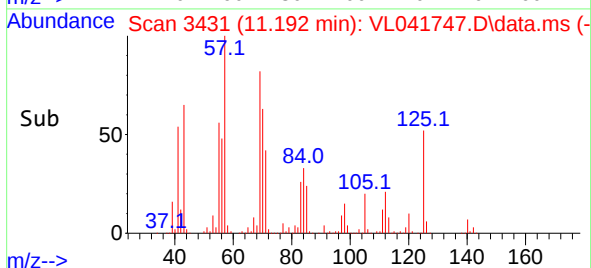
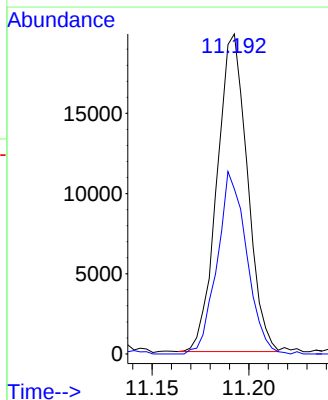
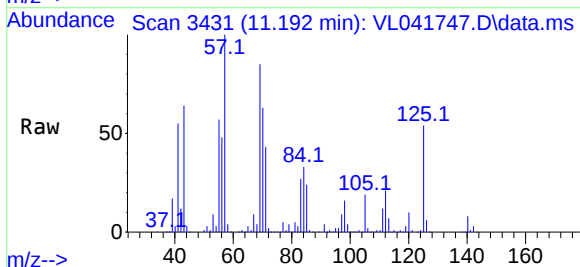
Manual Integrations
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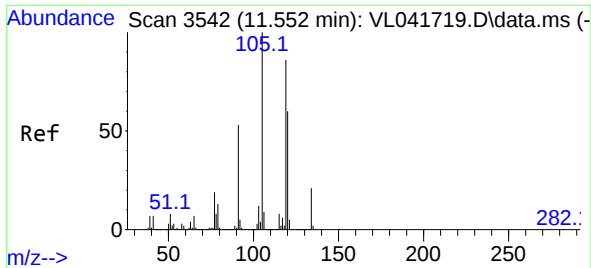
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.209 ppbv
RT: 11.192 min Scan# 3431
Delta R.T. -0.026 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

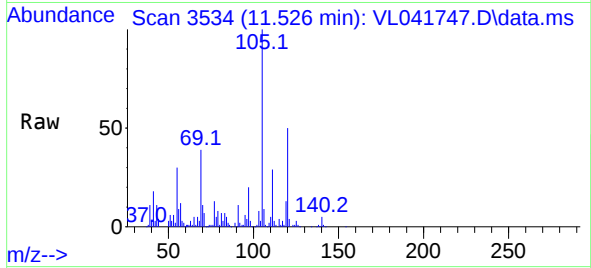
Tgt Ion:105 Resp: 21547
Ion Ratio Lower Upper
105 100
120 52.0 43.6 65.4





#74
1,2,4-Trimethylbenzene
Concen: 0.350 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.026 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion:	105	Resp:	39130
Ion	Ratio	Lower	Upper
105	100		
120	50.1	47.8	71.6
91	9.9	42.5	63.7
77	10.5	15.4	23.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

