

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038016.D
 Acq On : 10 Nov 2021 20:17
 Operator : SY/AP
 Sample : M4598-04DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 356-4DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2021
 Supervised By :Mahesh Dadoda 11/17/2021

Quant Time: Nov 11 05:14:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1429203	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	4113068	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3598930	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2597524	9.93	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	218856m	0.823	ppbv	
9) Propene	3.01	41	26726	0.280	ppbv	95
13) Ethanol	3.60	45	20532m	2.134	ppbv	
15) Acetone	3.85	43	247349	2.094	ppbv	91
20) Methylene Chloride	4.34	84	89530m	1.381	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	32613	0.456	ppbv #	76
26) Hexane	5.67	57	66119m	0.398	ppbv	
29) Chloroform	5.73	83	57323	0.231	ppbv	93
31) cis-1,2-Dichloroethene	5.53	61	1133367	7.474	ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	14634m	0.060	ppbv	
34) 2-Butanone	5.25	43	110831	0.727	ppbv	96
38) Trichloroethene	7.82	130	15640441	112.503	ppbv	93
52) Tetrachloroethene	11.29	164	43686892	343.815	ppbv	92

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

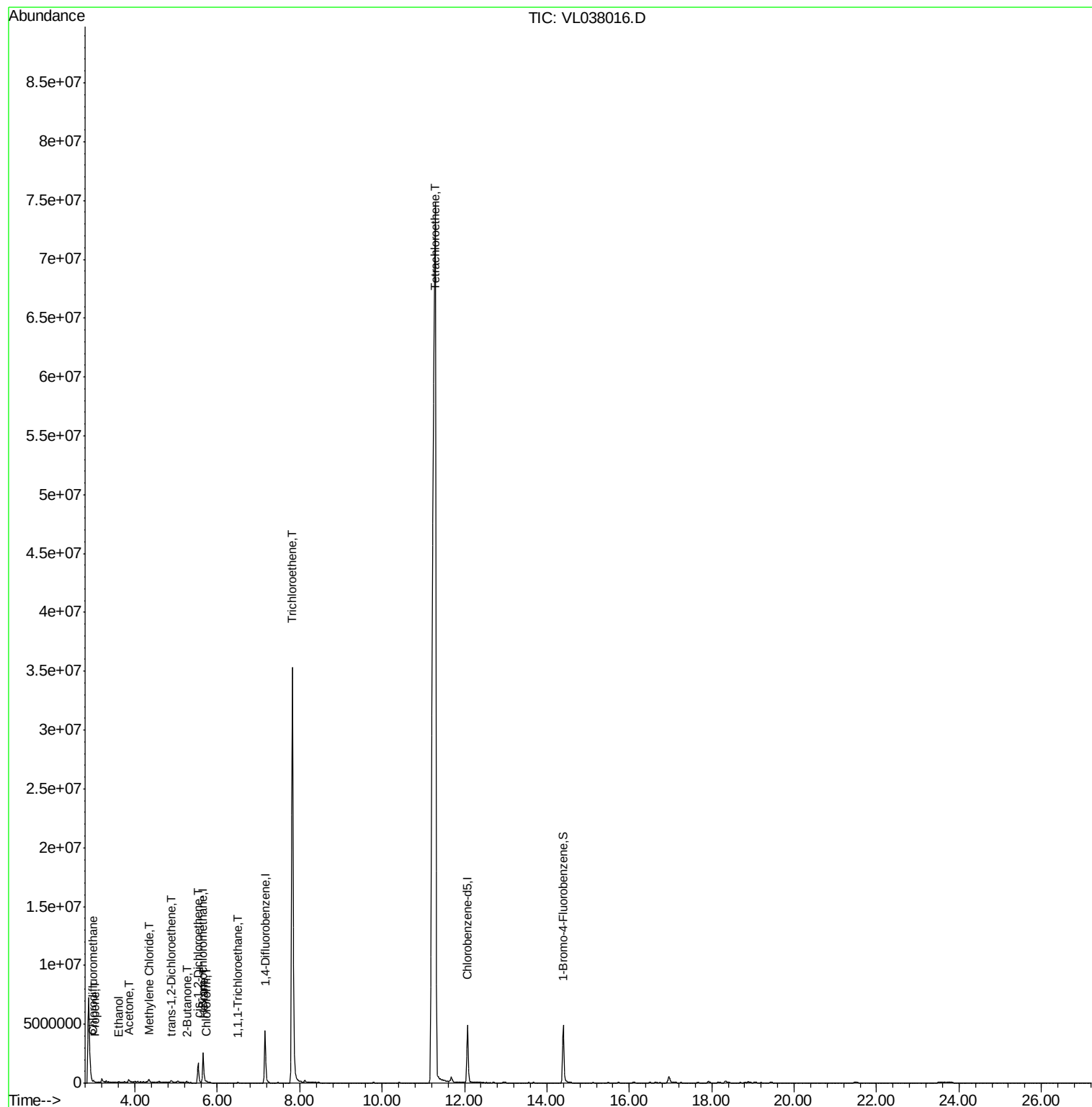
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL11021\
Data File : VL038016.D
Acq On : 10 Nov 2021 20:17
Operator : SY/AP
Sample : M4598-04DL 40X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

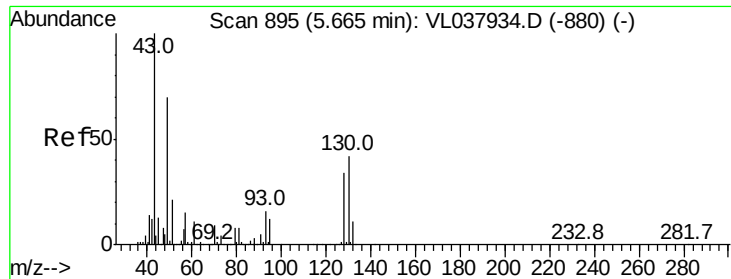
Instrument :
MSVOA_L
ClientSampleId :
356-4DL

Manual Integrations
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Quant Time: Nov 11 05:14:04 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL11021
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 356-4DL

Acq: 10 Nov 2021 20:17

Tot Ion:

Ion Ratio

49 100

128 51.

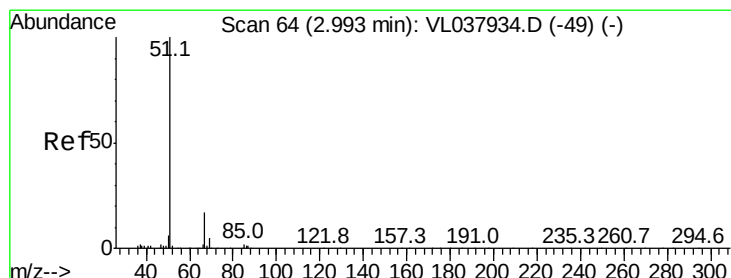
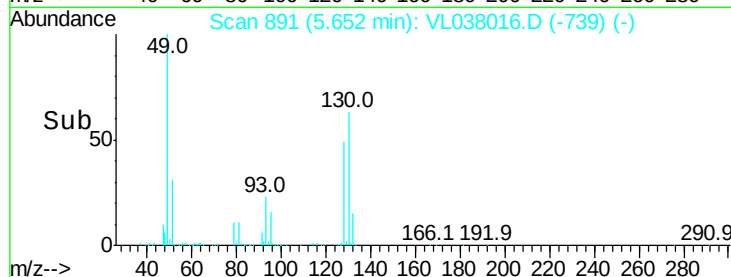
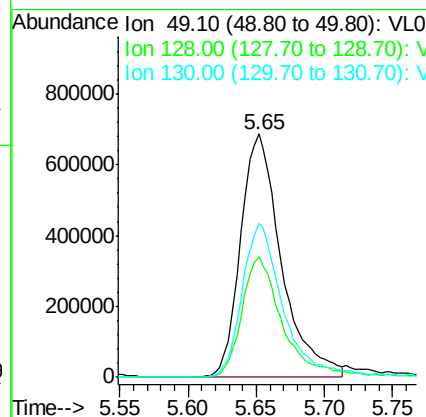
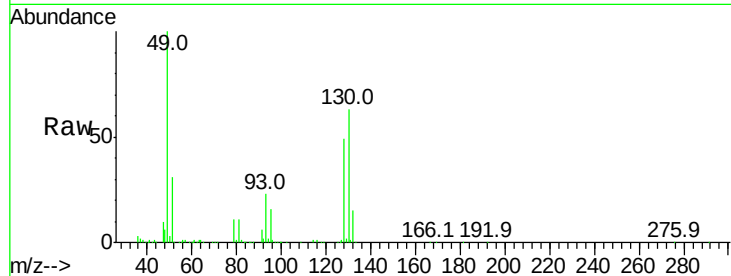
130 65.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#3

Chlorodifluoromethane

Concen: 0.823 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL038016.D

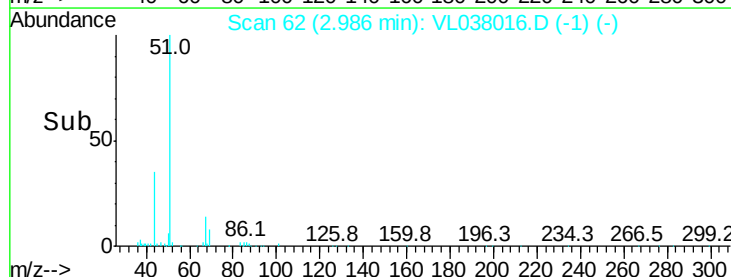
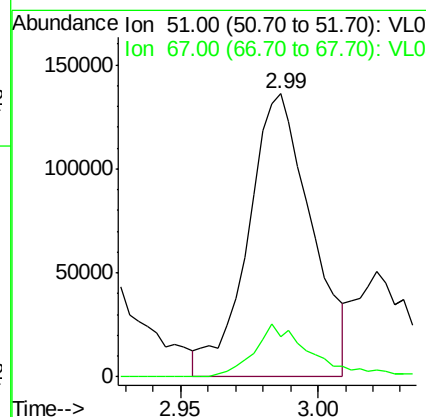
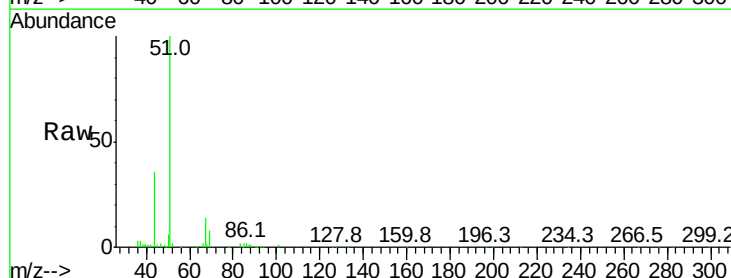
Acq: 10 Nov 2021 20:17

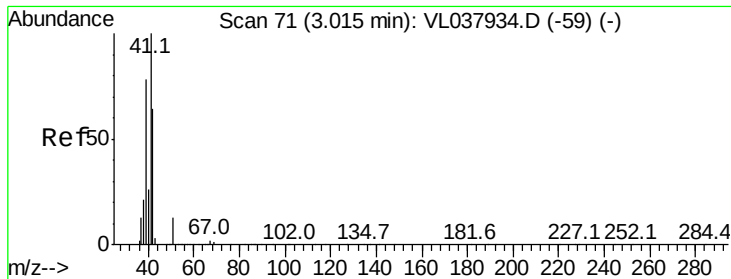
Tgt Ion: 51 Resp: 218856

Ion Ratio Lower Upper

51 100

67 18.5 13.4 20.0





#9

Propene

Concen: 0.280 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 20:17

Tot Ion:

Ion Ratio

41 100

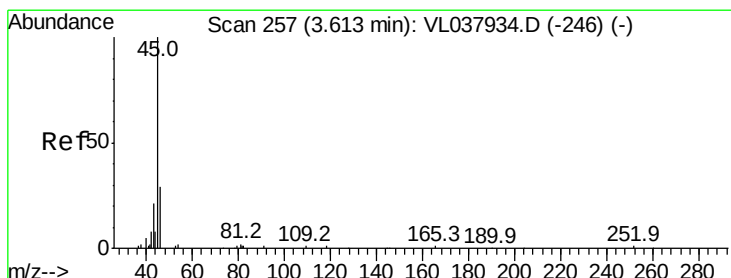
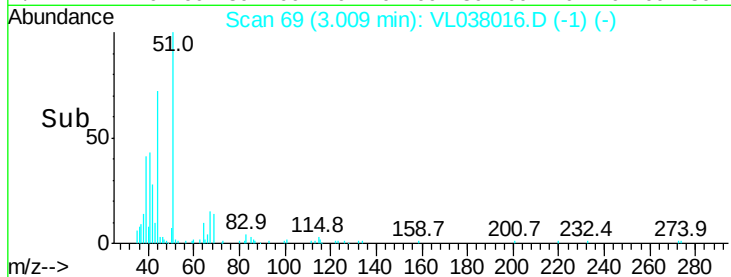
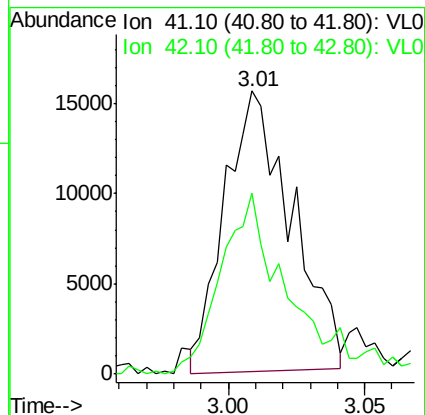
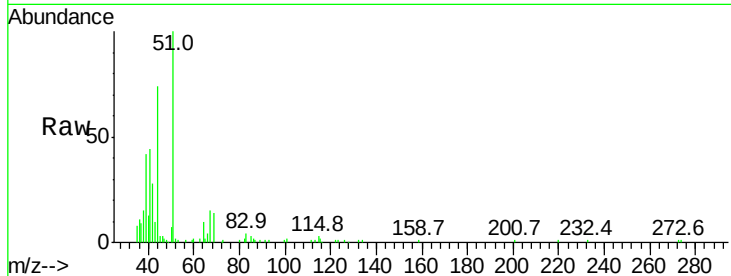
42 68.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#13

Ethanol

Concen: 2.134 ppbv m

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL038016.D

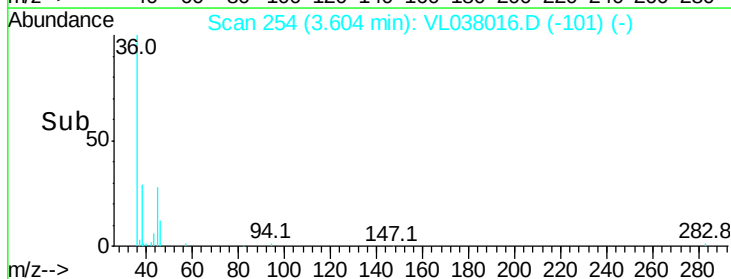
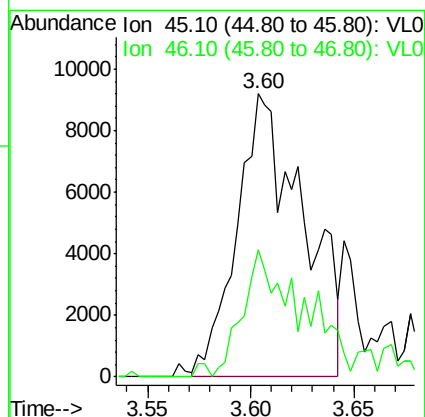
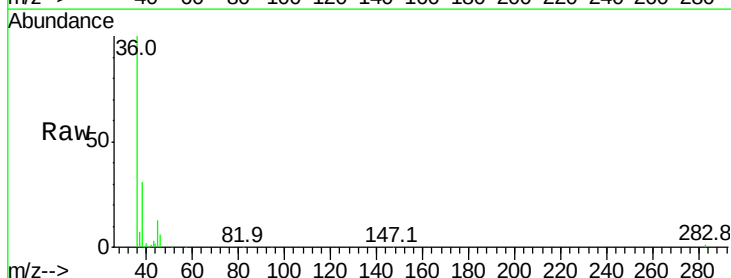
Acq: 10 Nov 2021 20:17

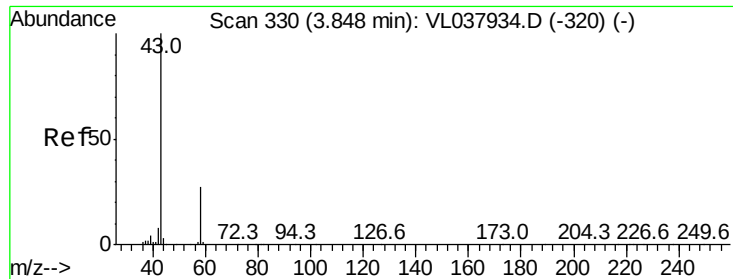
Tgt Ion: 45 Resp: 20532

Ion Ratio Lower Upper

45 100

46 46.3 17.4 69.8



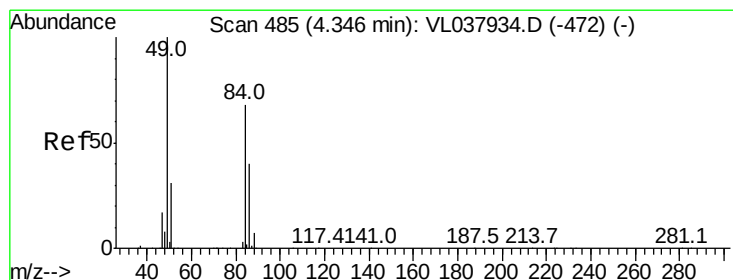
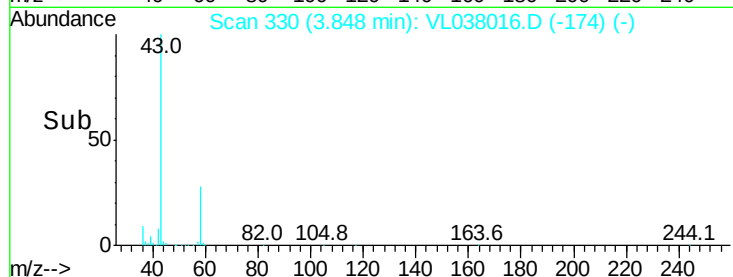
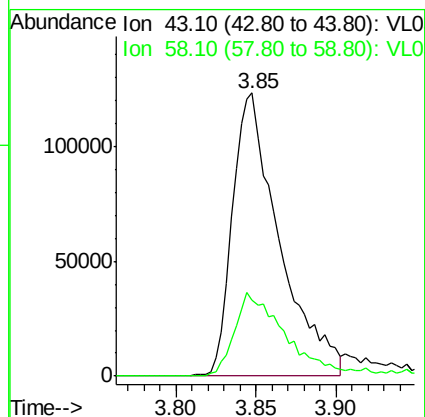
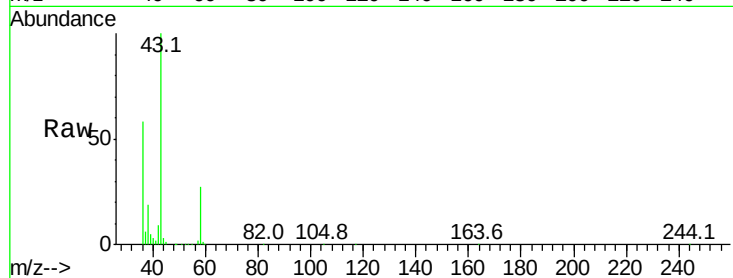


#15
Acetone
Concen: 2.094 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 Nov 2021 20:17

Tot Ion:
Ion Ratio
43 100
58 33.

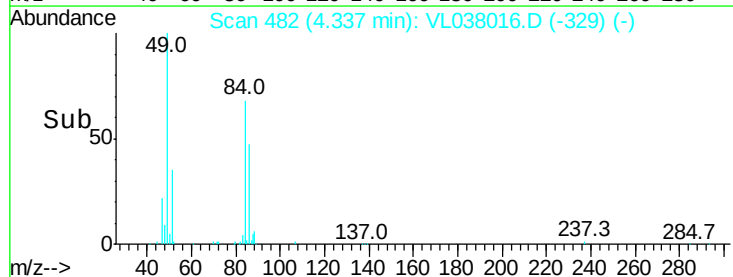
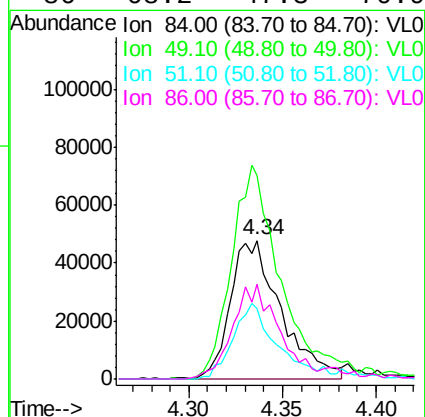
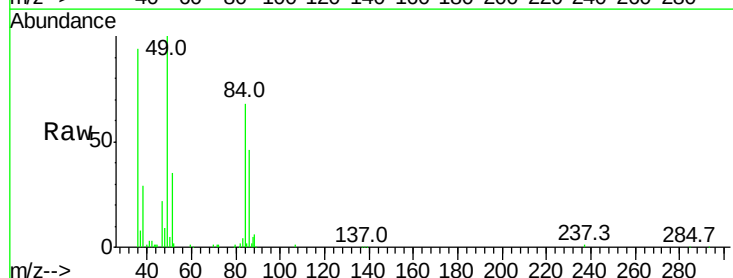
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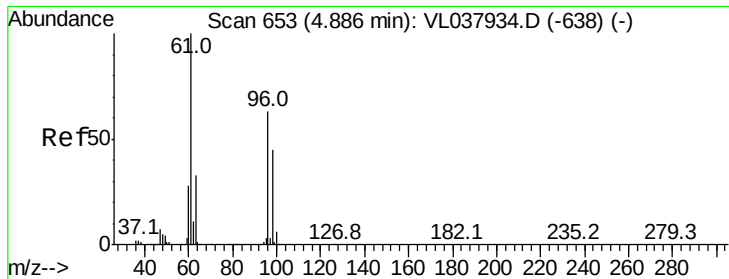
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#20
Methylene Chloride
Concen: 1.381 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL038016.D
Acq: 10 Nov 2021 20:17

Tgt Ion: 84 Resp: 89530
Ion Ratio Lower Upper
84 100
49 146.8 117.5 176.3
51 51.2 35.9 53.9
86 68.2 47.3 70.9





#22

trans-1,2-Dichloroethene

Concen: 0.456 ppbv

RT: 4.87 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: 356-4DL

Acq: 10 Nov 2021 20:17

Tot Ion:

Ion Ratio

96 100

61 130.

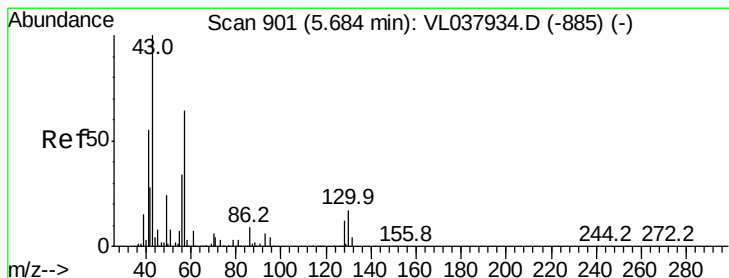
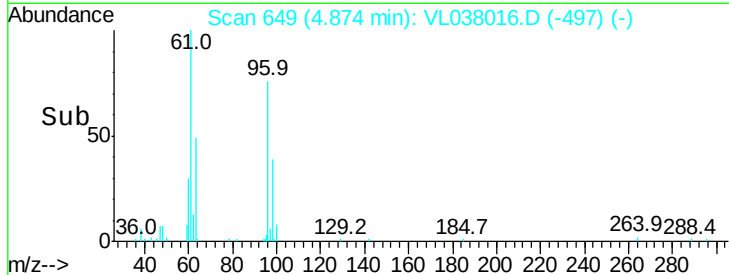
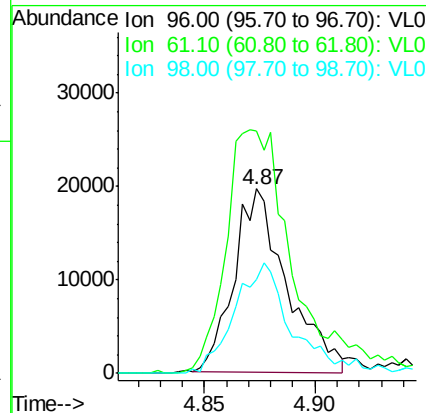
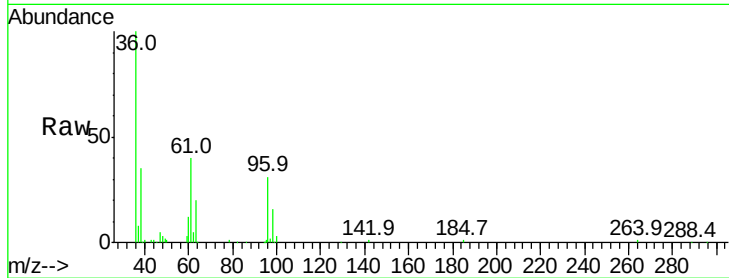
98 49.

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#26

Hexane

Concen: 0.398 ppbv m

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

Tgt Ion: 57 Resp: 66119

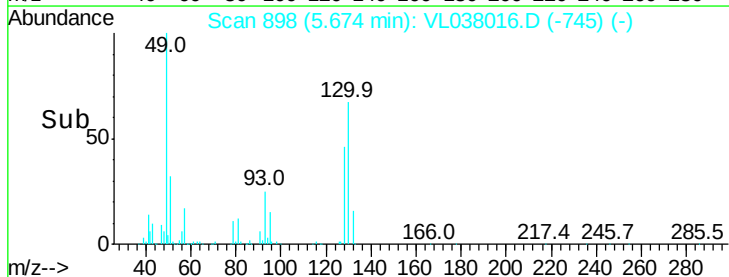
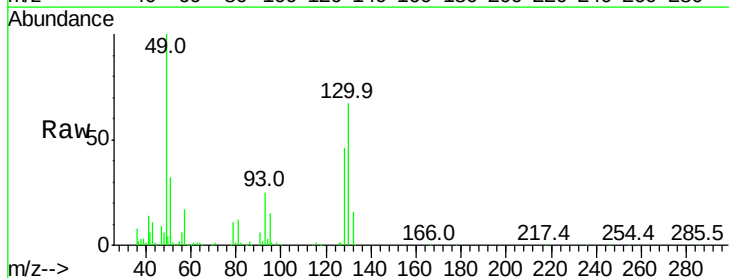
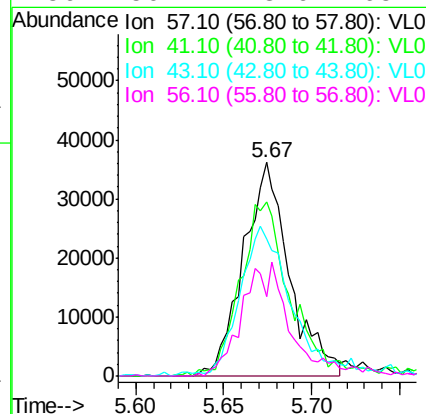
Ion Ratio Lower Upper

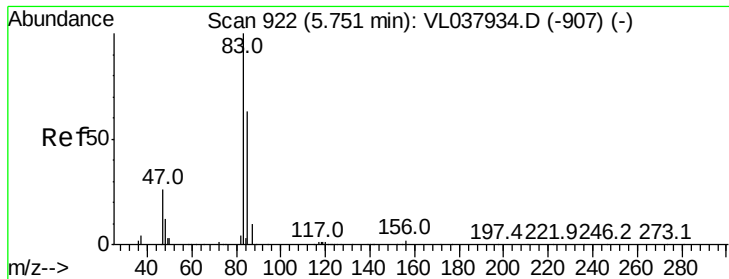
57 100

41 91.9 71.0 106.6

43 81.4 173.0 259.6#

56 56.1 43.6 65.4



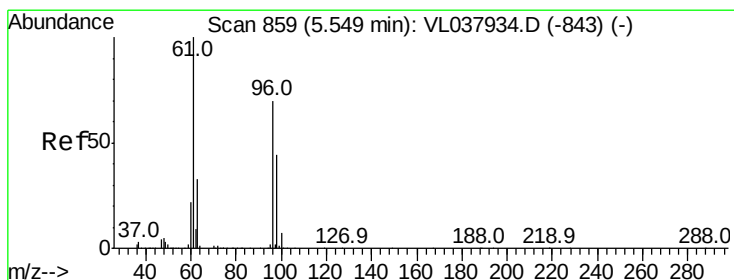
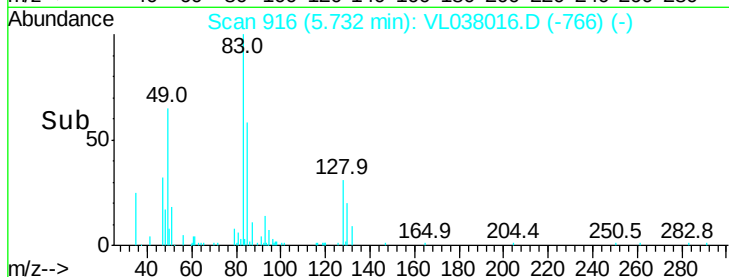
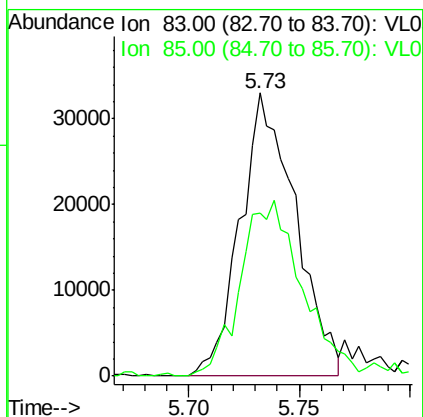
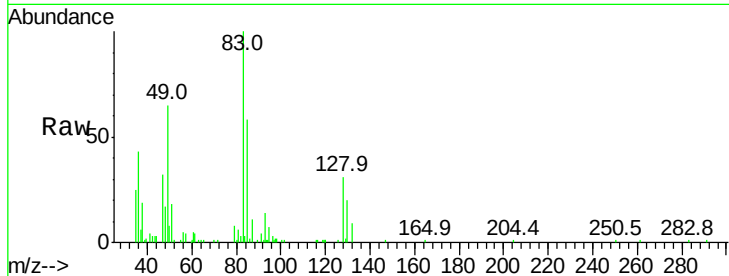


#29
Chloroform
Concen: 0.231 ppbv
RT: 5.73
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
356-4DL
Acq: 10 Nov 2021 20:17

Tot Ion:
Ion Ratio
83 100
85 57.

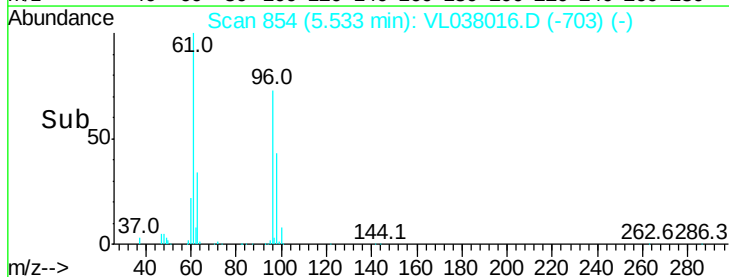
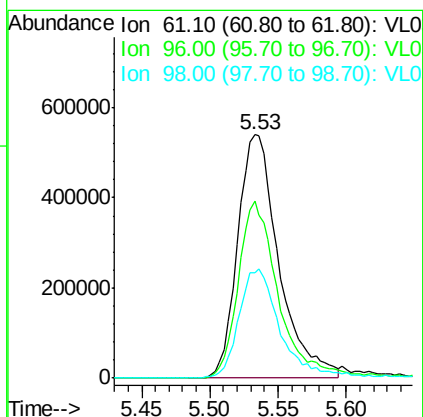
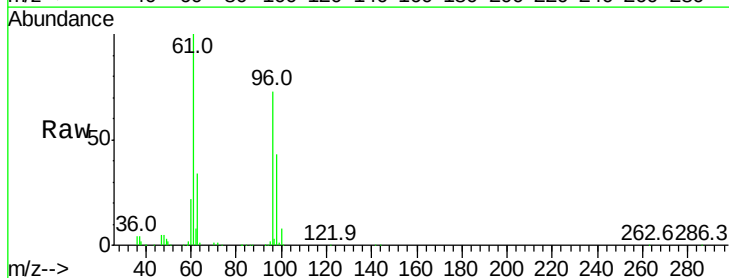
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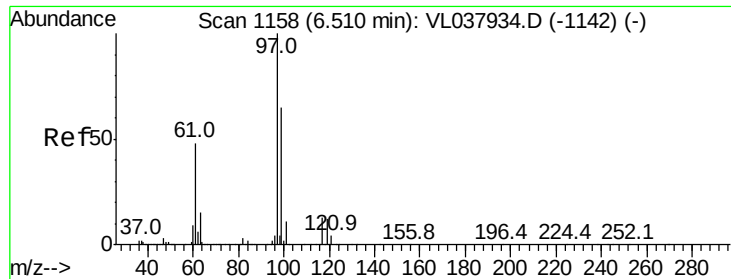
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#31
cis-1,2-Dichloroethene
Concen: 7.474 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.02 min
Lab File: VL038016.D
Acq: 10 Nov 2021 20:17

Tgt Ion: 61 Resp: 1133367
Ion Ratio Lower Upper
61 100
96 72.6 55.6 83.4
98 43.2 34.9 52.3





#32

1,1,1-Trichloroethane

Concen: 0.060 ppbv m

RT: 6.49 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 356-4DL

Acq: 10 Nov 2021 20:17

Tot Ion:

Ion Ratio

97 100

99 70.

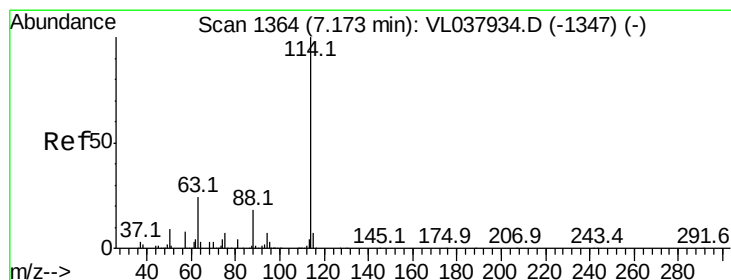
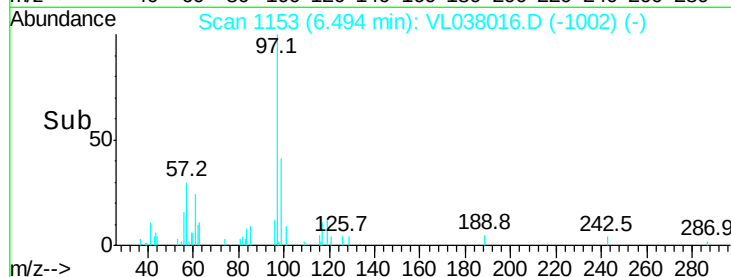
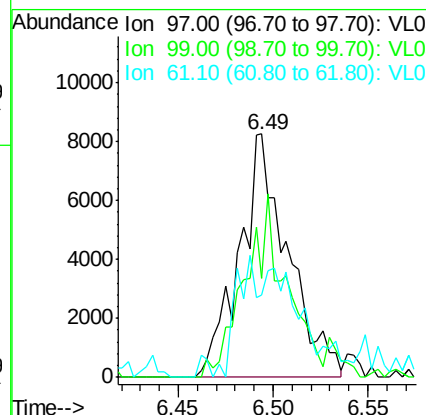
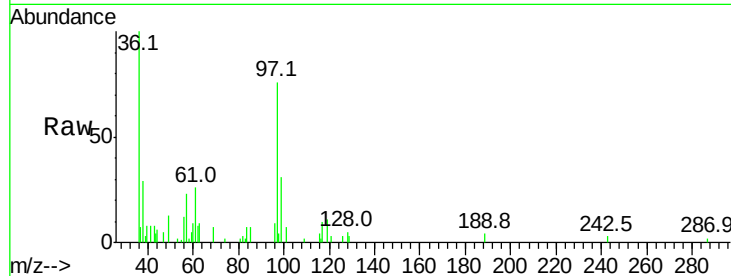
61 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

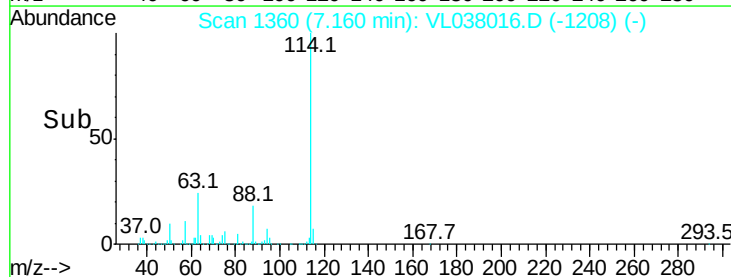
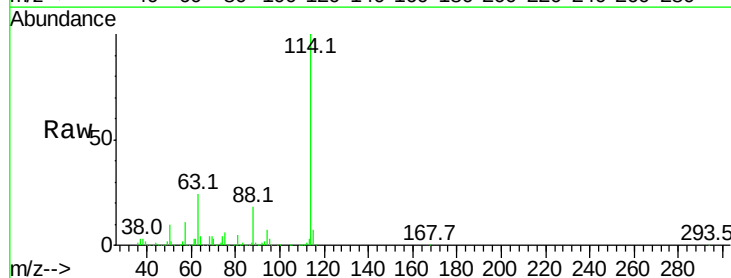
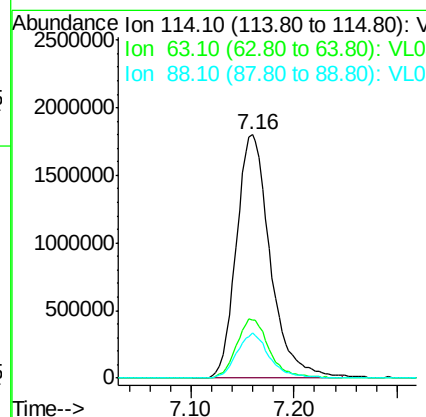
Tgt Ion:114 Resp: 4113068

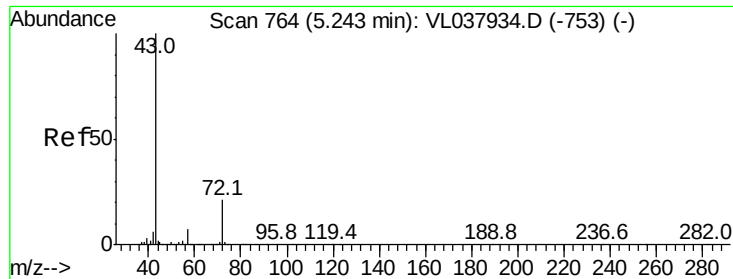
Ion Ratio Lower Upper

114 100

63 23.6 19.4 29.0

88 17.9 14.2 21.4





#34

2-Butanone

Concen: 0.727 ppbv

RT: 5.25

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 20:17

Tot Ion:

Ion Ratio

43 100

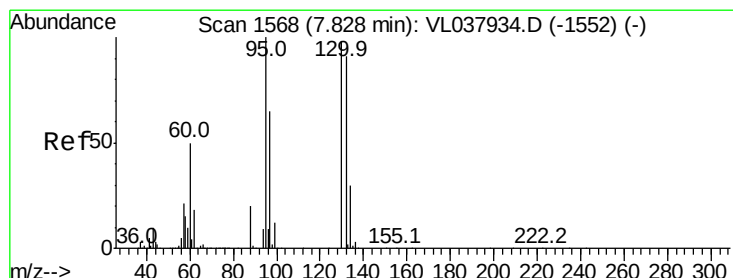
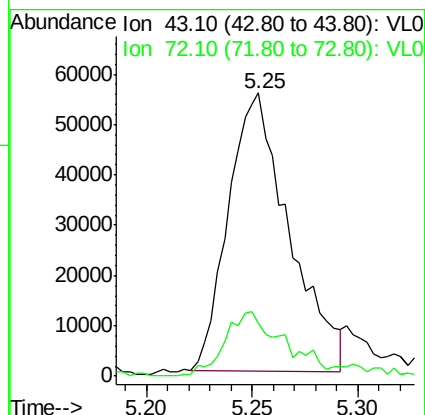
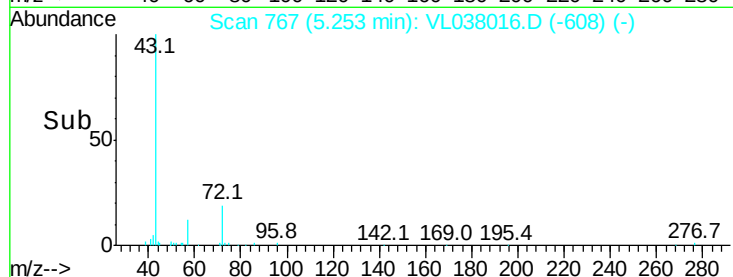
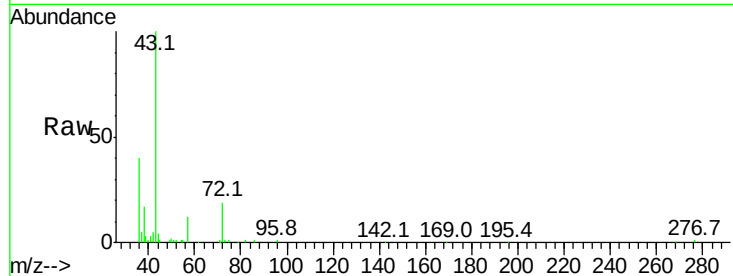
72 25.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#38

Trichloroethene

Concen: 112.503 ppbv

RT: 7.82 min Scan# 1566

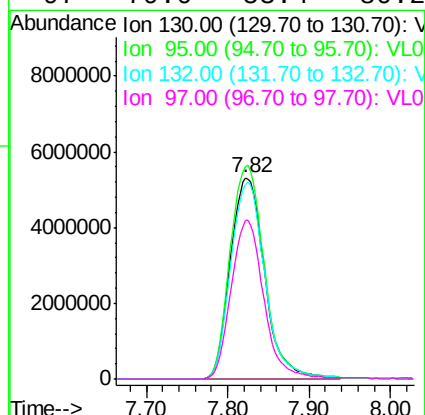
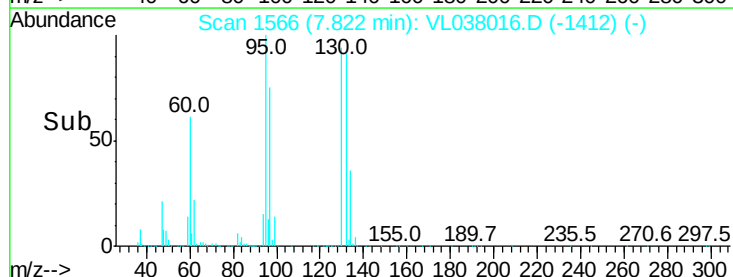
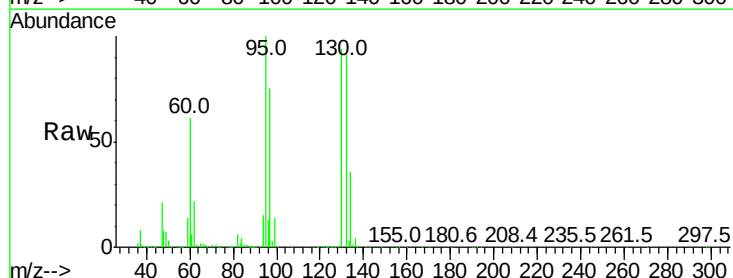
Delta R.T. -0.01 min

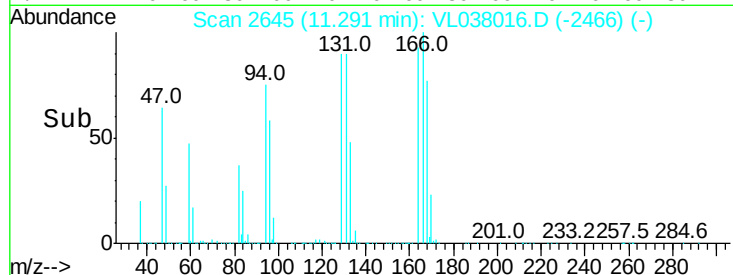
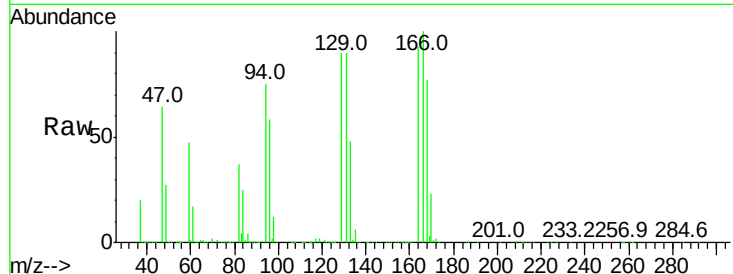
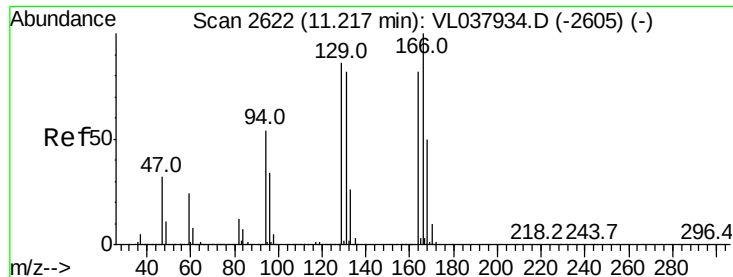
Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

Tgt Ion:130 Resp:15640441

Ion	Ratio	Lower	Upper
130	100		
95	105.9	81.8	122.8
132	96.8	74.2	111.2
97	79.0	53.4	80.2



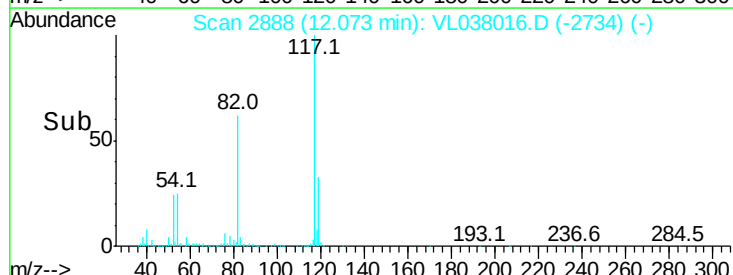
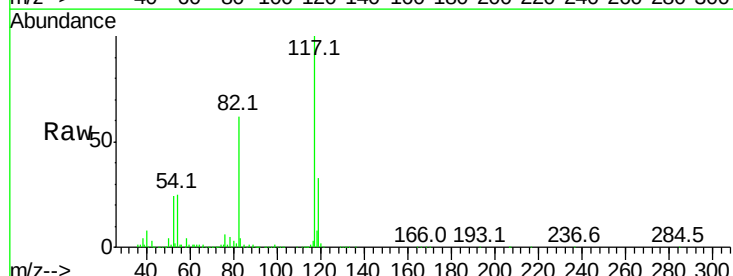
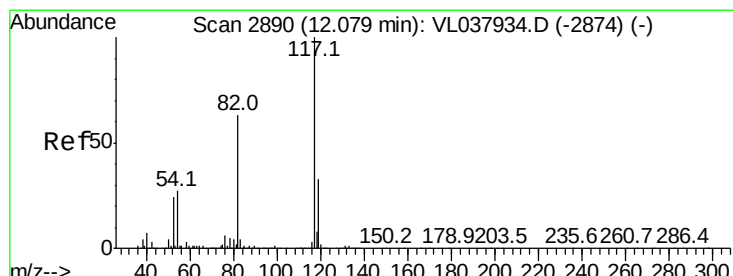
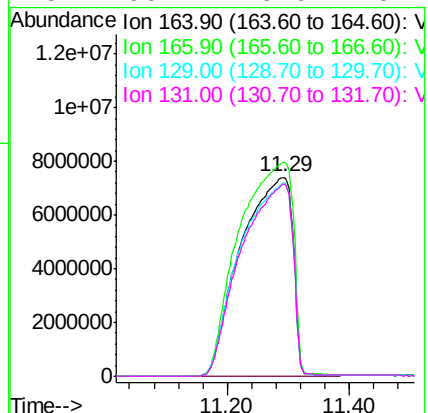


#52
Tetrachloroethene
Concen: 343.815 ppbv
RT: 11.29
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 10 Nov 2021 20:17

Tot Ion:1
Ion Ratio
164 100
166 107.
129 97.
131 96.7 79.6 119.4

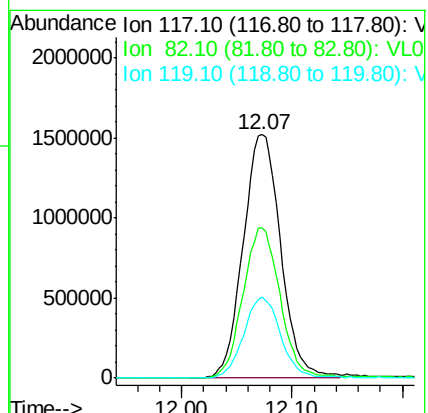
Manual Integrations
APPROVED

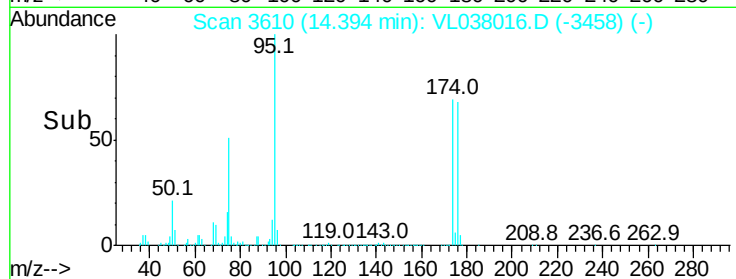
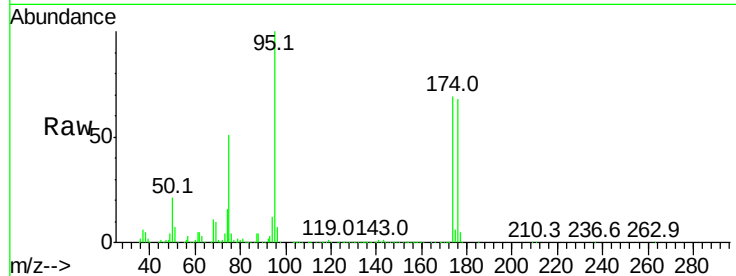
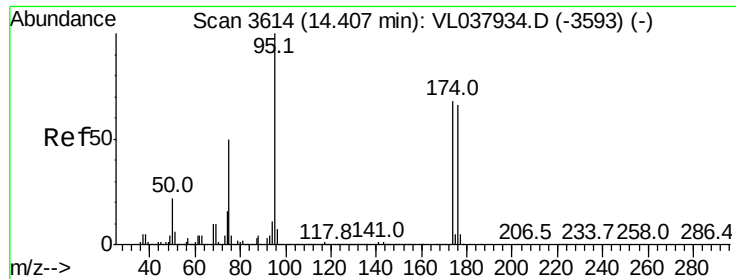
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.01 min
Lab File: VL038016.D
Acq: 10 Nov 2021 20:17

Tgt Ion:117 Resp: 3598930
Ion Ratio Lower Upper
117 100
82 62.1 51.0 76.6
119 33.1 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.929 ppbv

RT: 14.39

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 20:17

Tot Ion:

Ion Ratio

95 100

174 75.

175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021

