

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036497.D
 Acq On : 25 Mar 2021 22:06
 Operator : SY/AP
 Sample : M1748-32
 Misc : 400ml/MSVOA L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 UP-SG-3(2021)

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/28/2021
 Supervised By : Mahesh Dadoda 03/29/2021

Quant Time: Mar 28 23:35:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1556369	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3499061	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3155798	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2471684	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	90648m	0.357	ppbv	
4) Chloromethane	3.14	50	21446	0.209	ppbv #	86
9) Propene	3.02	41	79966	0.863	ppbv	86
11) Trichlorofluoromethane	3.95	101	182244	0.704	ppbv	96
13) Ethanol	3.62	45	495537m	44.889	ppbv	
15) Acetone	3.85	43	2628381	17.158	ppbv	100
19) Isopropyl Alcohol	3.99	45	165461m	1.964	ppbv	
20) Methylene Chloride	4.34	84	1611584	22.470	ppbv	92
26) Hexane	5.69	57	2006338	11.872	ppbv #	47
27) Carbon Disulfide	4.55	76	54748	0.329	ppbv	98
34) 2-Butanone	5.26	43	71587m	0.419	ppbv	
35) Carbon Tetrachloride	7.01	117	11759m	0.044	ppbv	
36) Benzene	6.89	78	37861m	0.117	ppbv	
52) Tetrachloroethene	11.22	164	349015	2.937	ppbv	97
53) Toluene	9.81	91	57942m	0.169	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	51405m	0.121	ppbv	

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

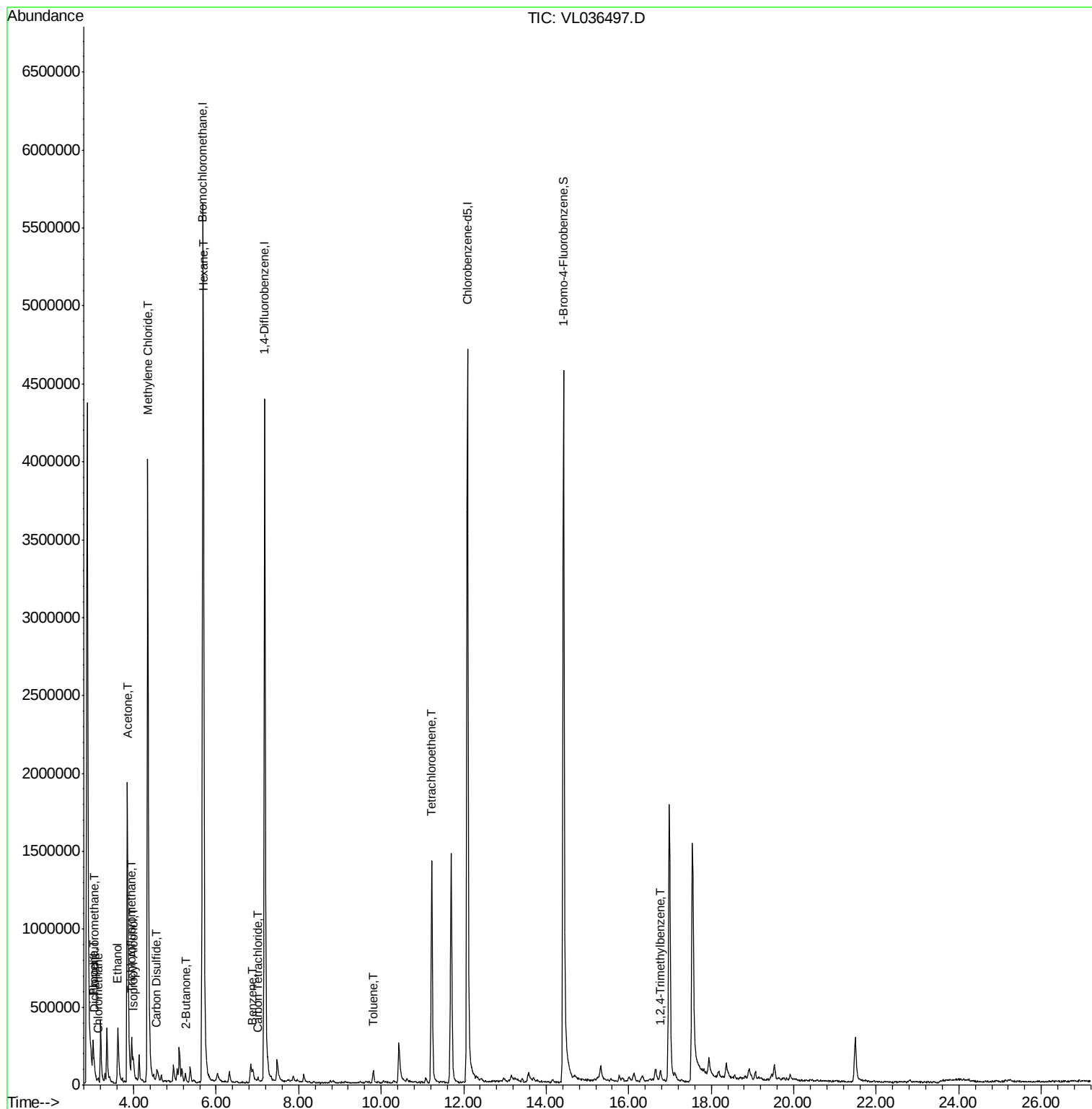
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032521\
Data File : VL036497.D
Acq On : 25 Mar 2021 22:06
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MSVOA_L
ClientSampleId :
UP-SG-3(2021)

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. -0.00

Lab File: ClientSampleId: UP-SG-3(2021)

Acq: 25 Mar 2021 22:00

Tot Ion:

Ion Ratio

49 100

128 43.

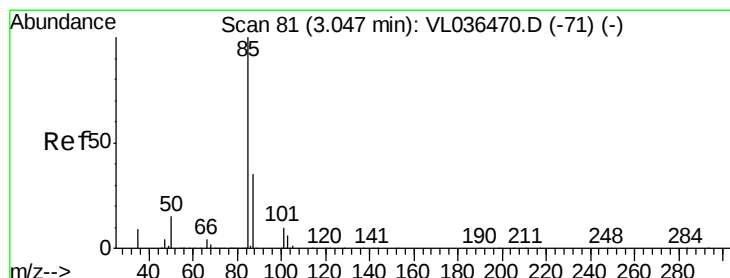
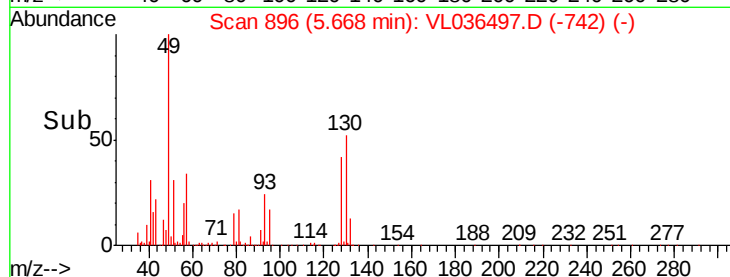
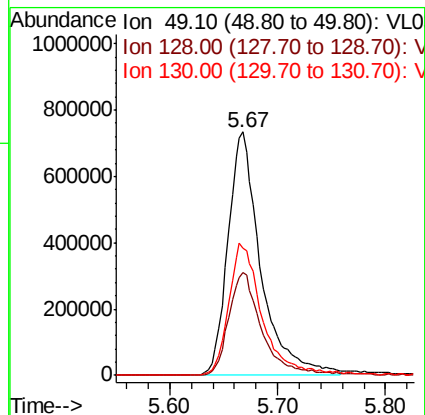
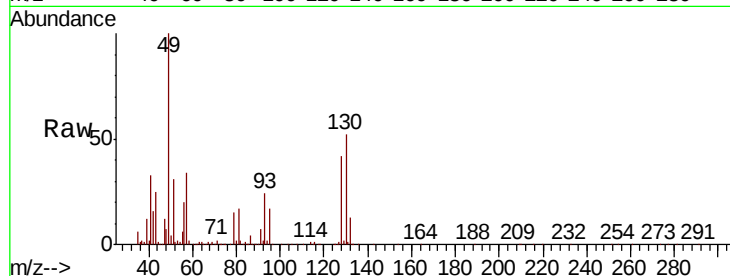
130 56.

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.357 ppbv m

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036497.D

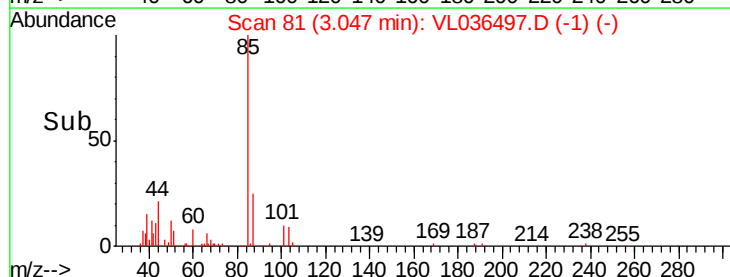
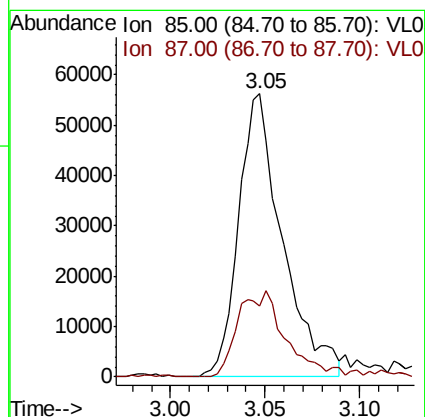
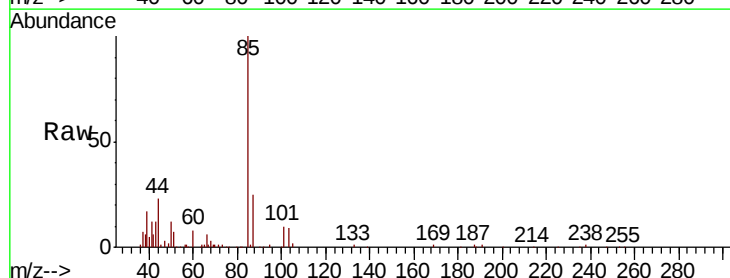
Acq: 25 Mar 2021 22:06

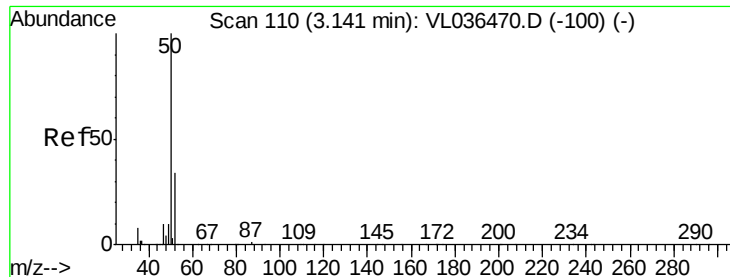
Tgt Ion: 85 Resp: 90648

Ion Ratio Lower Upper

85 100

87 25.1 27.8 41.8#





#4

Chloromethane

Concen: 0.209 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

Tot Ion:

Ion Ratio

50 100

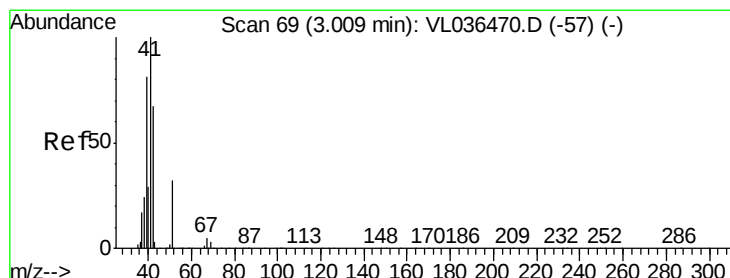
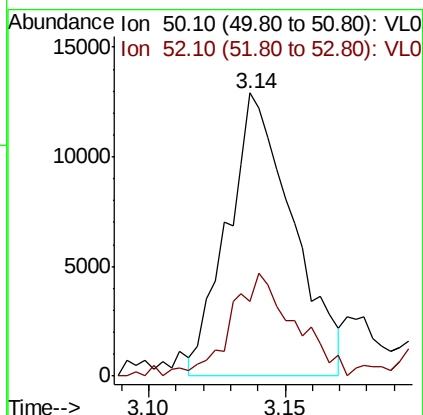
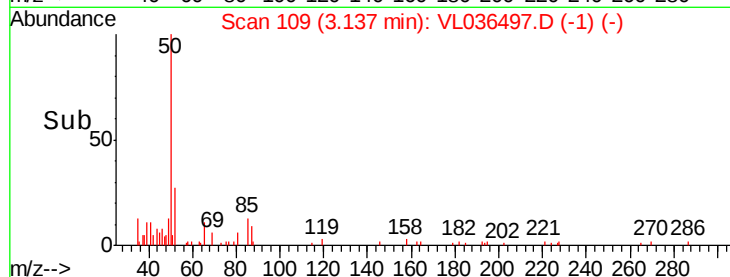
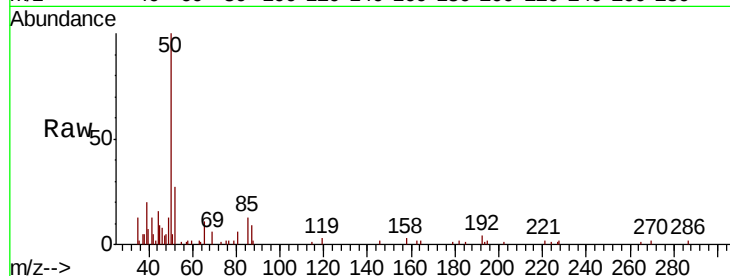
52 26.

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#9

Propene

Concen: 0.863 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036497.D

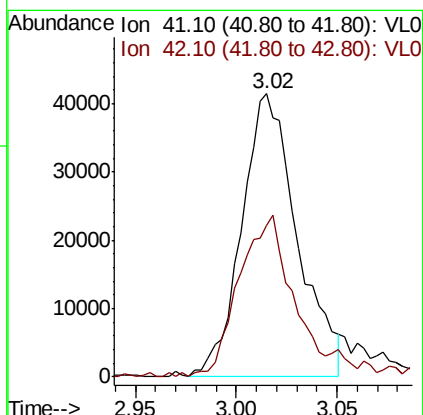
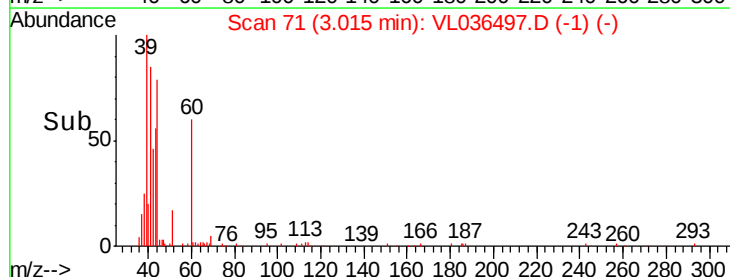
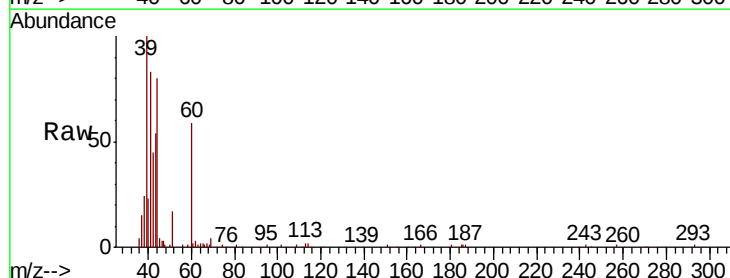
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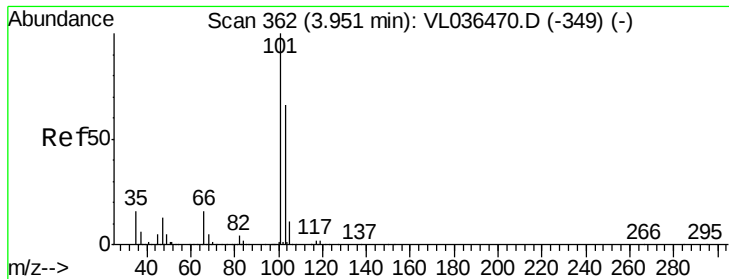
Tgt Ion: 41 Resp: 79966

Ion Ratio Lower Upper

41 100

42 60.0 57.0 85.4





#11

Trichlorofluoromethane

Concen: 0.704 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

Tot Ion:1

Ion Rati

101 100

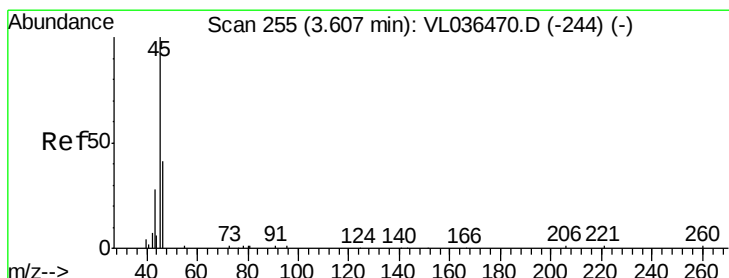
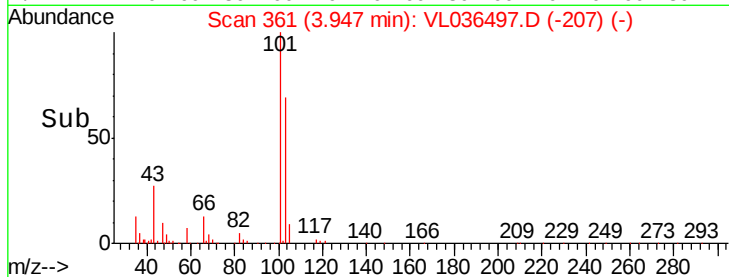
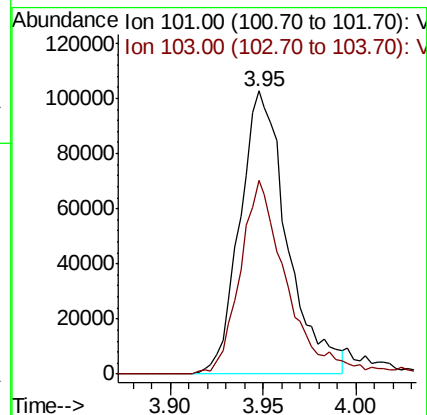
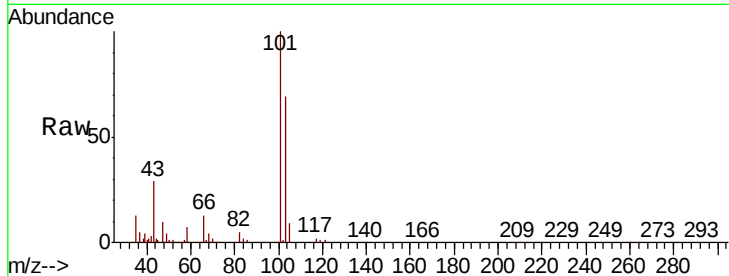
103 68.

Manual Integrations

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#13

Ethanol

Concen: 44.889 ppbv m

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL036497.D

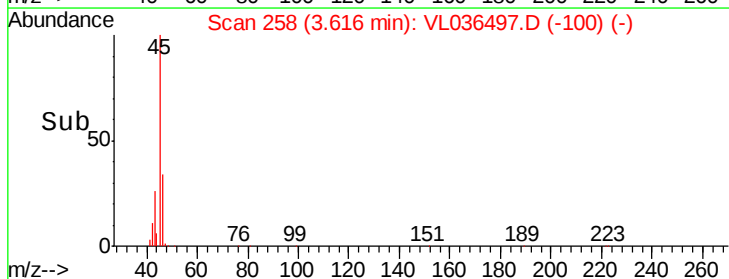
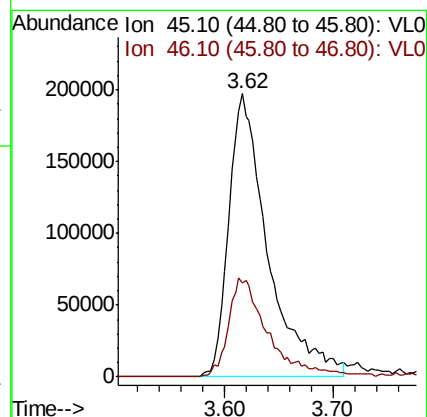
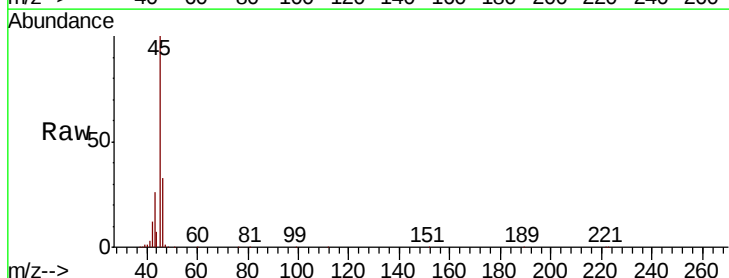
Acq: 25 Mar 2021 22:06

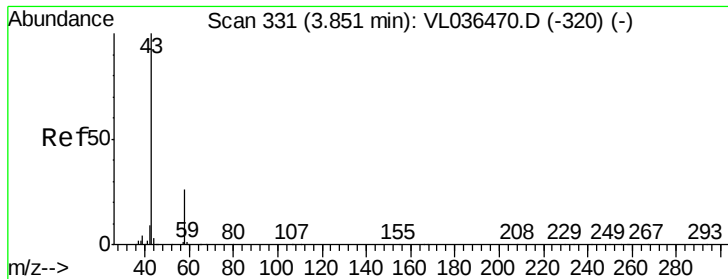
Tgt Ion: 45 Resp: 495537

Ion Ratio Lower Upper

45 100

46 35.9 16.6 66.2





#15

Acetone

Concen: 17.158 ppbv

RT: 3.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 22:06

Tot Ion:

Ion Ratio

43 100

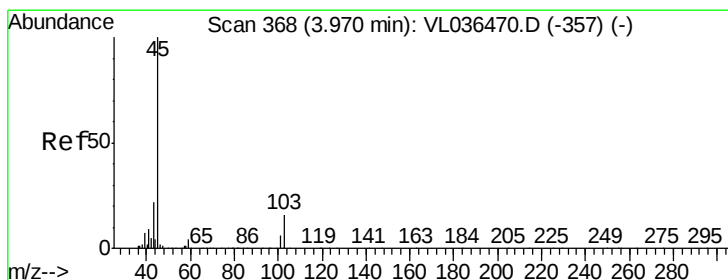
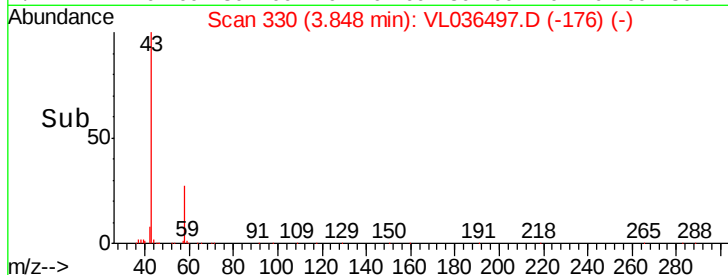
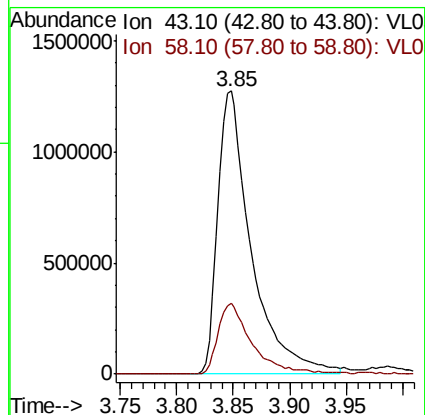
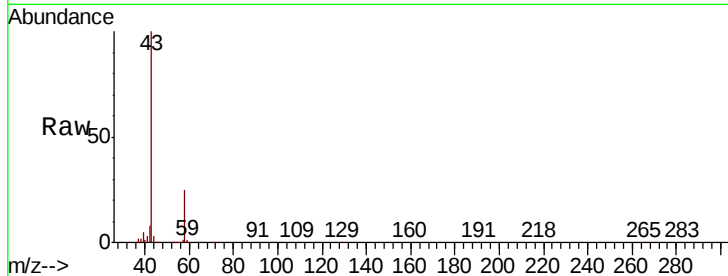
58 26.

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 1.964 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036497.D

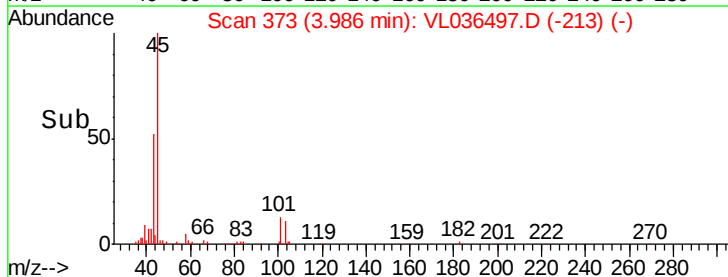
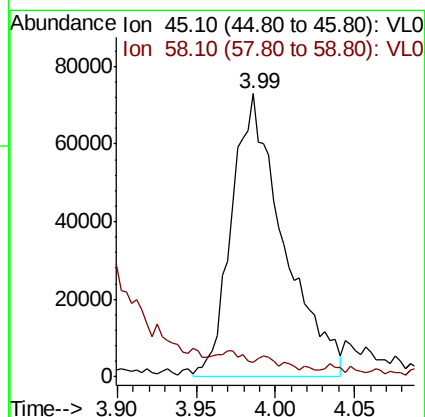
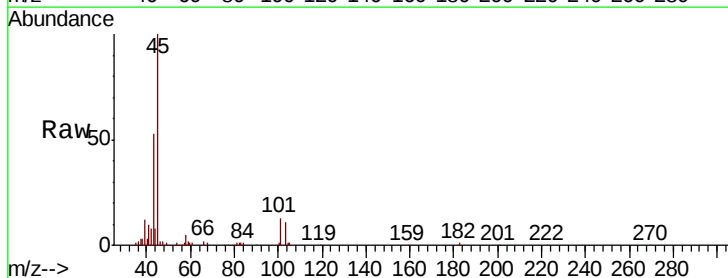
Acq: 25 Mar 2021 22:06

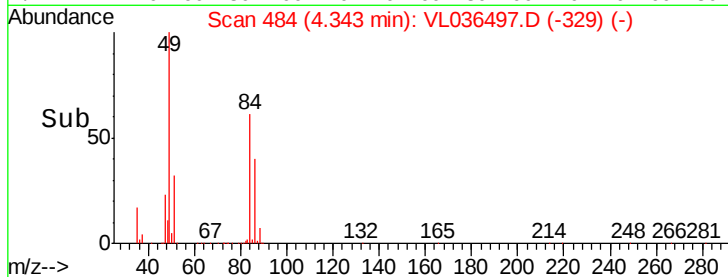
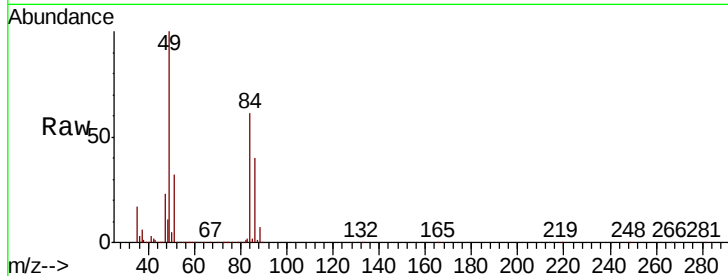
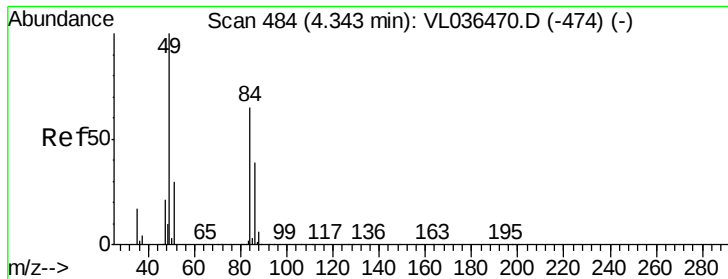
Tgt Ion: 45 Resp: 165461

Ion Ratio Lower Upper

45 100

58 407.2 2.9 4.3#





#20

Methylene Chloride

Concen: 22.470 ppbv

RT: 4.34 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

Tot Ion:

Ion Ratio

84 100

49 164.

51 52.

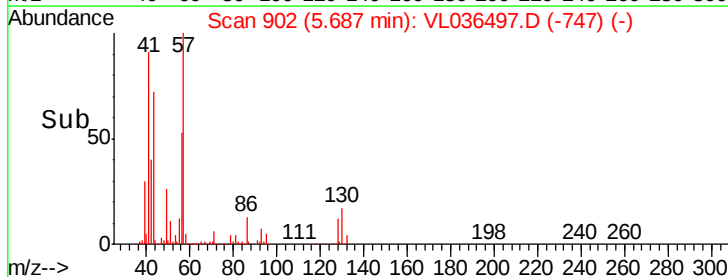
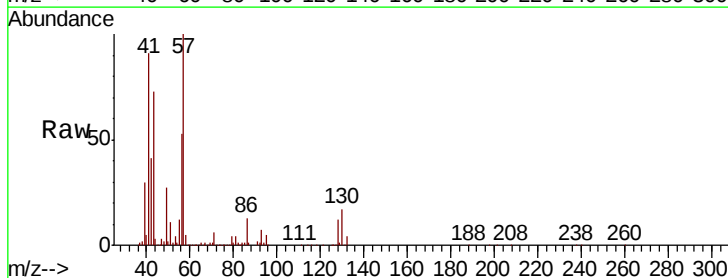
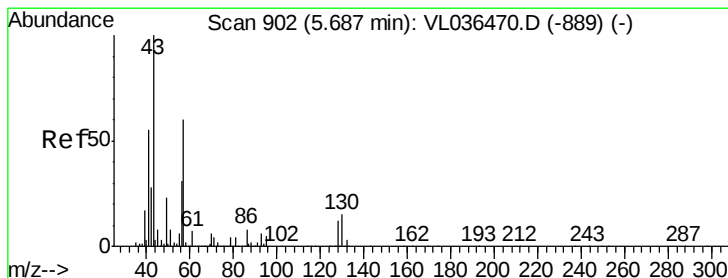
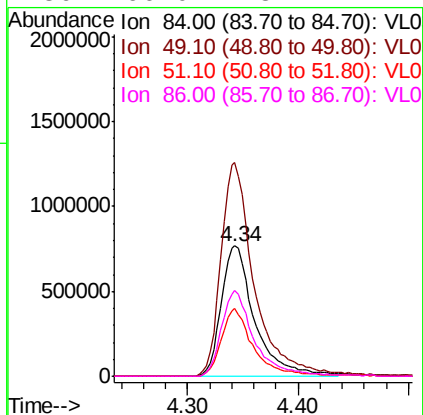
86 66.0 48.2 72.4

Manual Integrations

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#26

Hexane

Concen: 11.872 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL036497.D

Acq: 25 Mar 2021 22:06

Tgt Ion: 57 Resp: 2006338

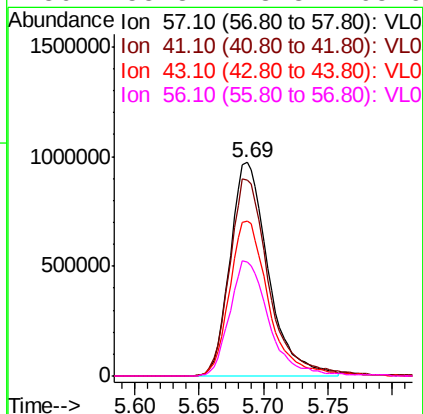
Ion Ratio Lower Upper

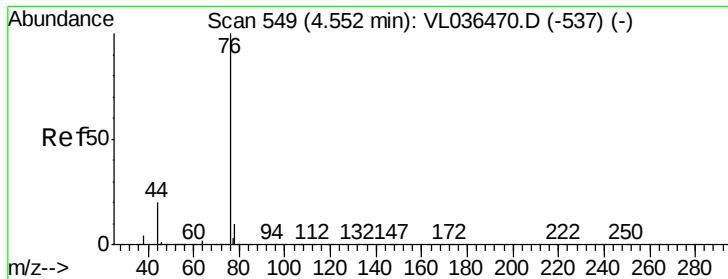
57 100

41 95.6 77.2 115.8

43 74.8 173.8 260.6#

56 55.8 43.8 65.6





#27

Carbon Disulfide

Concen: 0.329 ppbv

RT: 4.55 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: UP-SG-3(2021)

Acq: 25 Mar 2021 22:00

Tot Ion:

Ion Ratio

76 100

44 22.

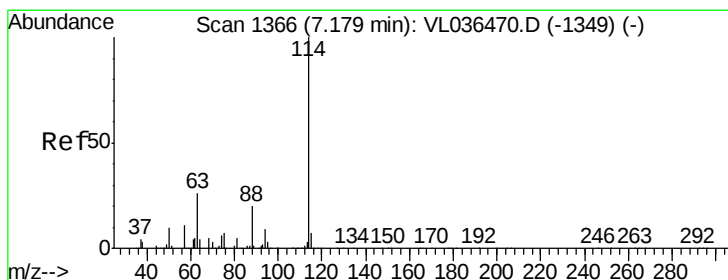
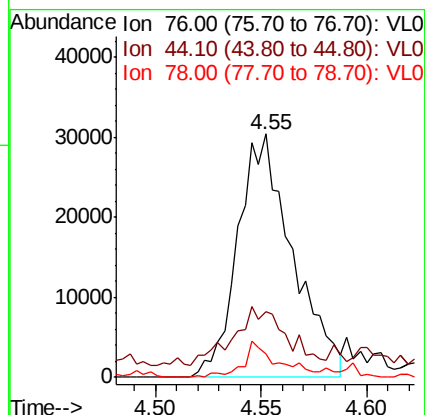
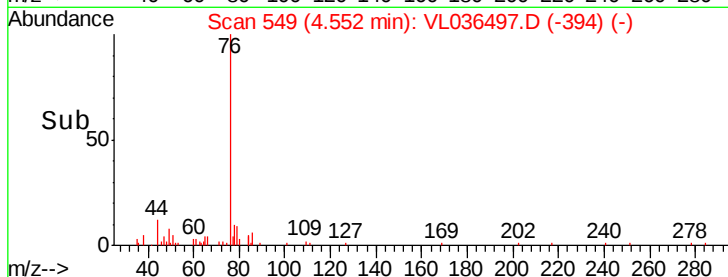
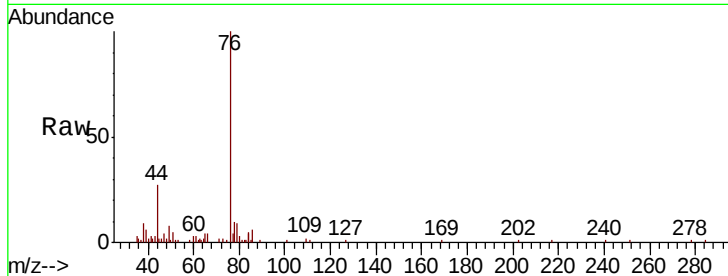
78 11.

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL036497.D

Acq: 25 Mar 2021 22:06

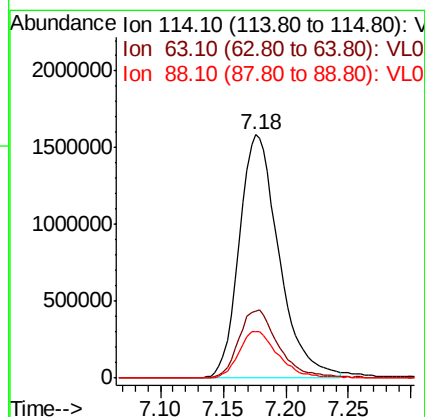
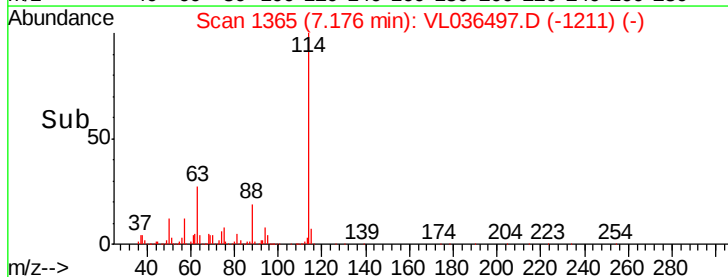
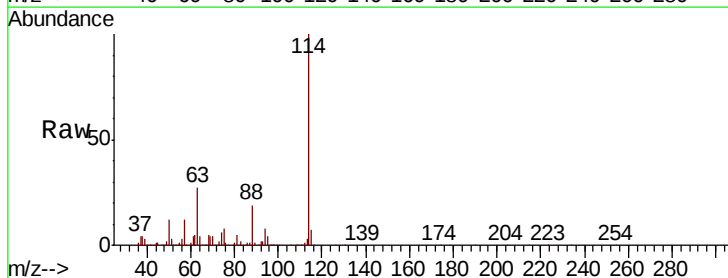
Tgt Ion:114 Resp: 3499061

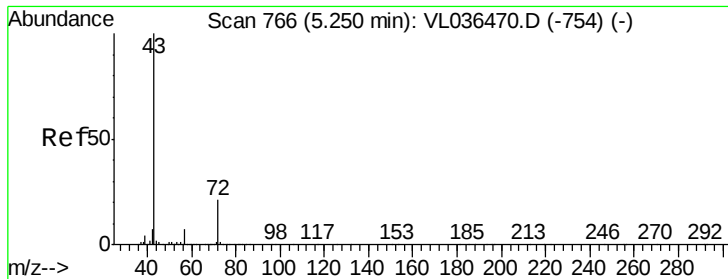
Ion Ratio Lower Upper

114 100

63 28.6 22.4 33.6

88 19.4 15.4 23.0





#34

2-Butanone

Concen: 0.419 ppbv m

RT: 5.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

Tot Ion:

Ion Ratio

43 100

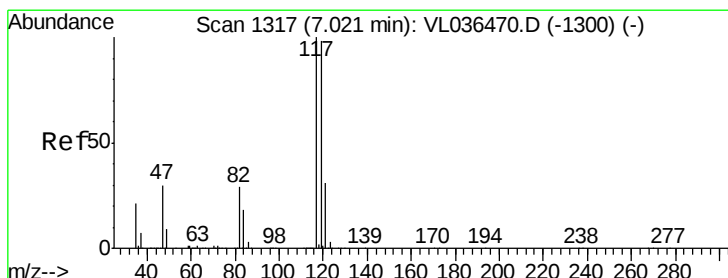
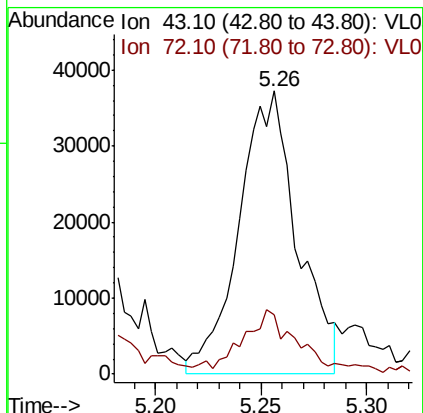
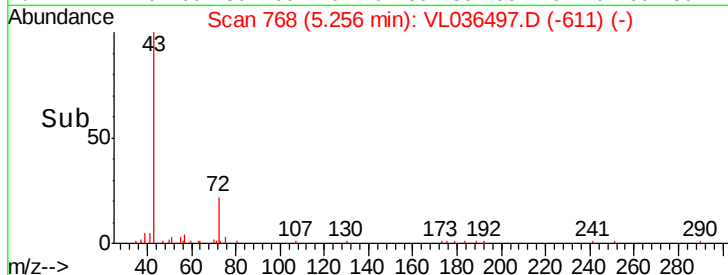
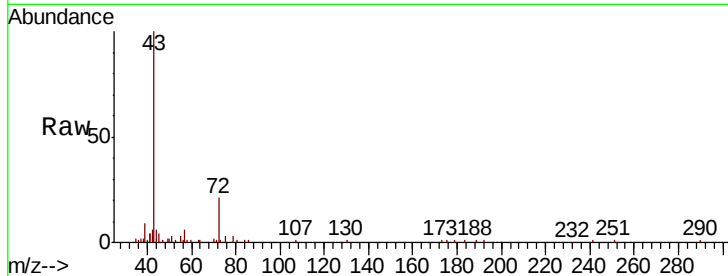
72 23.

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.044 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL036497.D

Acq: 25 Mar 2021 22:06

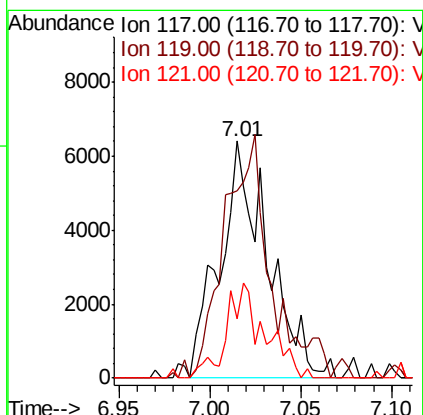
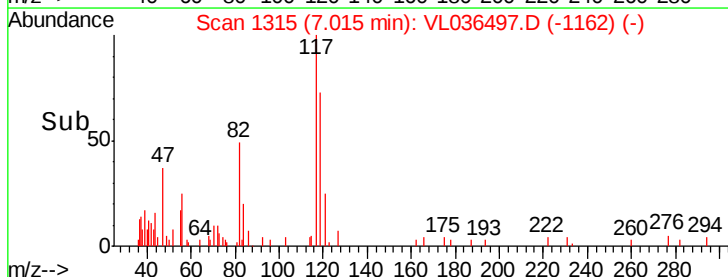
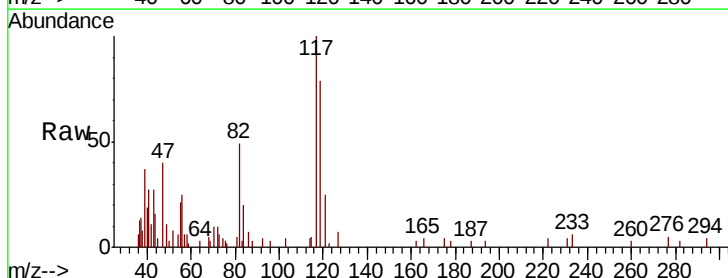
Tgt Ion:117 Resp: 11759

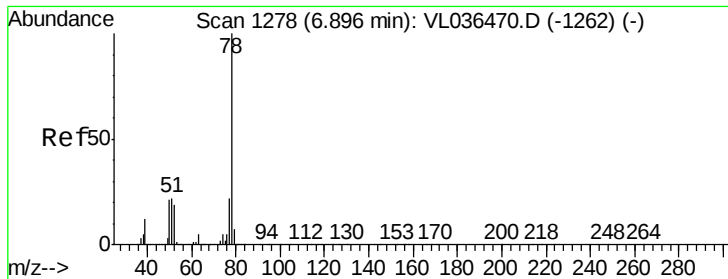
Ion Ratio Lower Upper

117 100

119 79.1 78.2 117.2

121 25.3 24.5 36.7





#36

Benzene

Concen: 0.117 ppbv m

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

Tot Ion:

Ion Ratio

78 100

77 16.

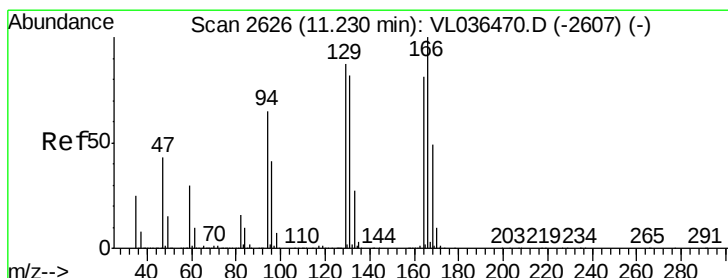
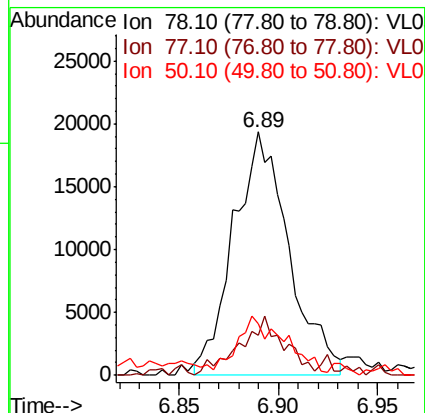
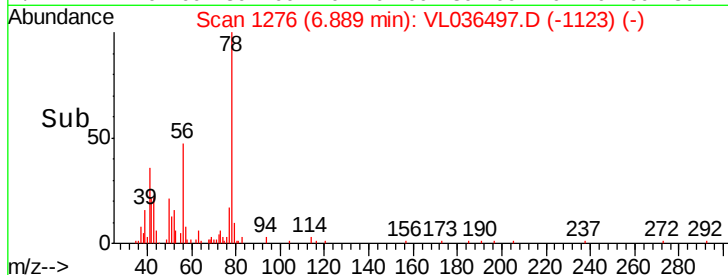
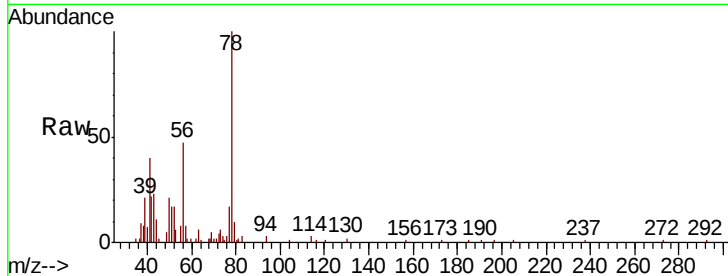
50 21.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#52

Tetrachloroethene

Concen: 2.937 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL036497.D

Acq: 25 Mar 2021 22:06

Tgt Ion:164 Resp: 349015

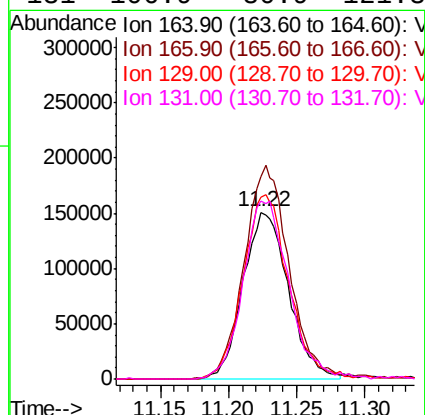
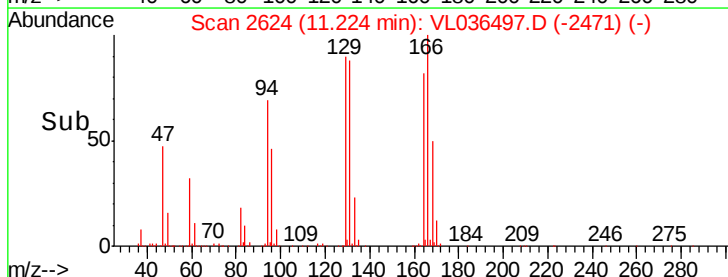
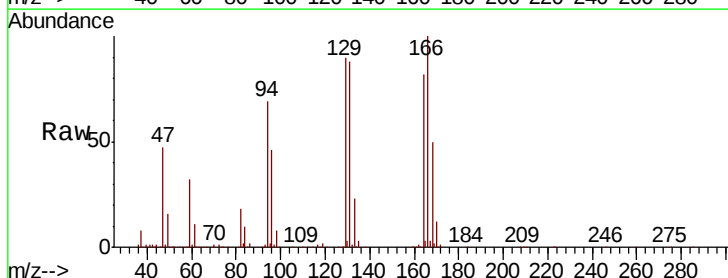
Ion Ratio Lower Upper

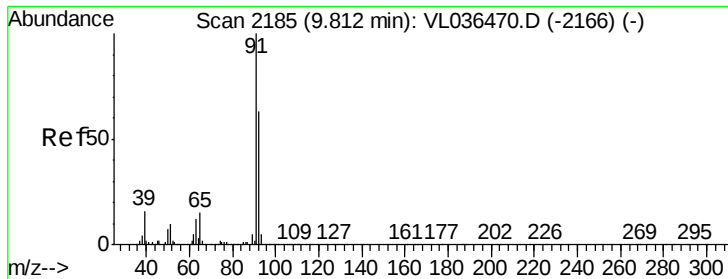
164 100

166 121.2 98.3 147.5

129 108.9 85.8 128.8

131 106.9 80.9 121.3





#53

Toluene

Concen: 0.169 ppbv m

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

Tot Ion:

Ion Ratio

91 100

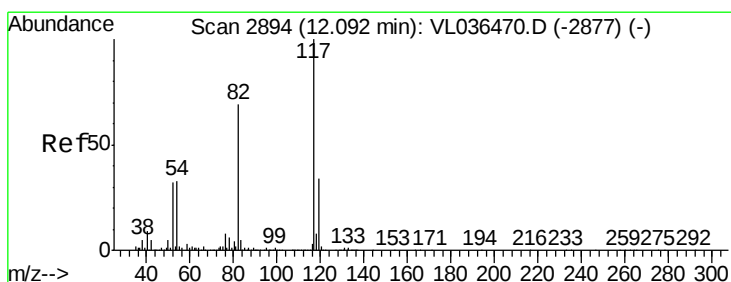
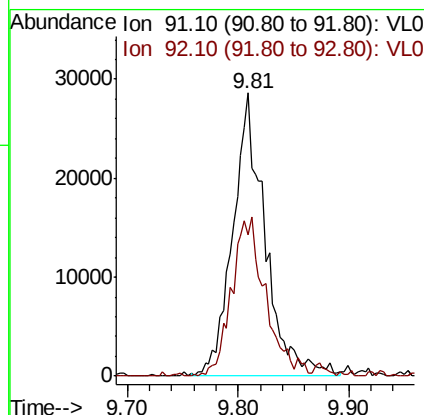
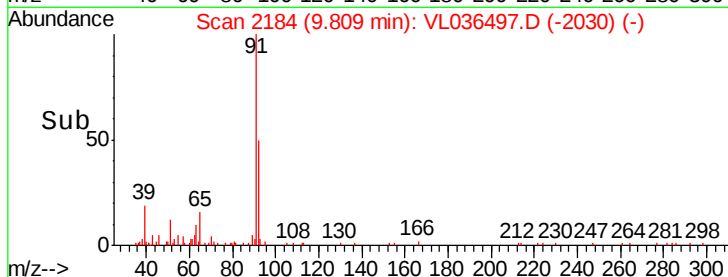
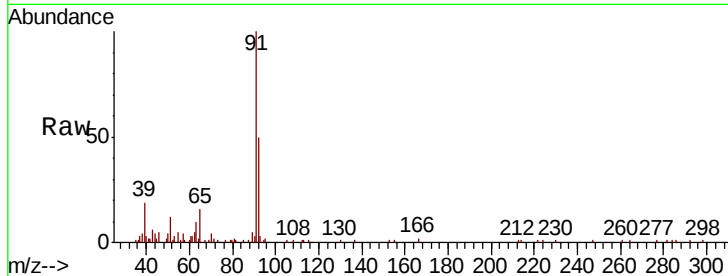
92 60.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/28/2021

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036497.D

Acq: 25 Mar 2021 22:06

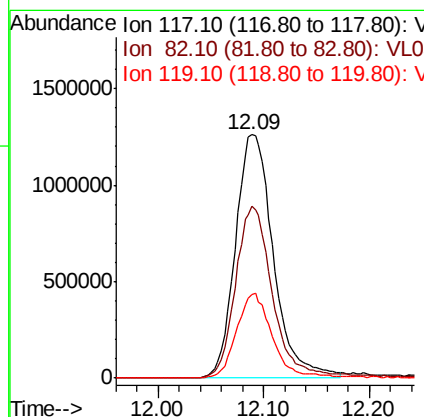
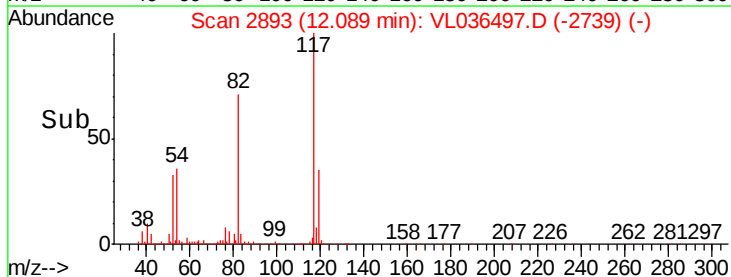
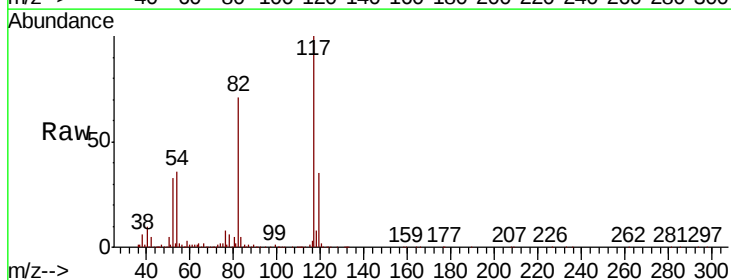
Tgt Ion:117 Resp: 3155798

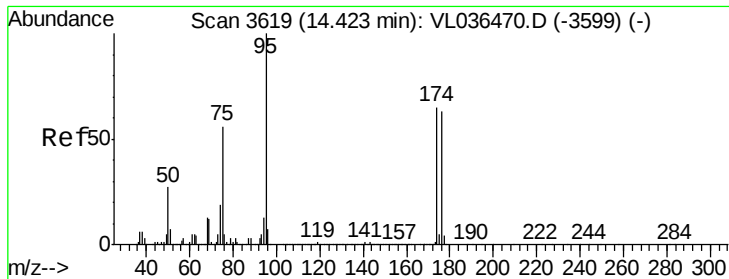
Ion Ratio Lower Upper

117 100

82 70.8 57.4 86.0

119 33.5 47.4 71.0#



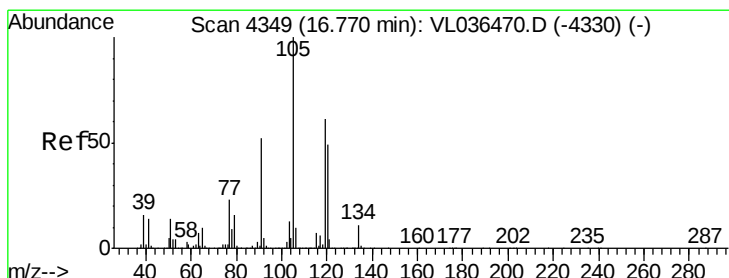
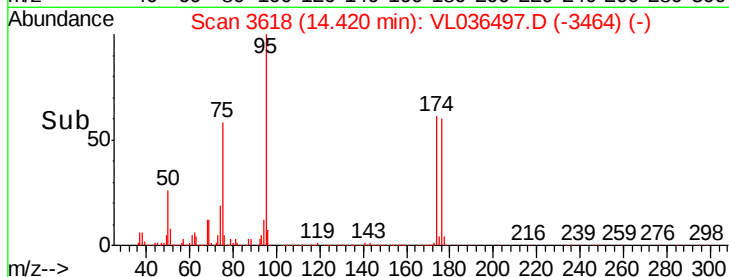
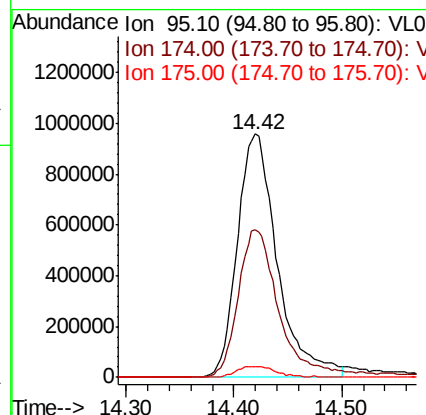
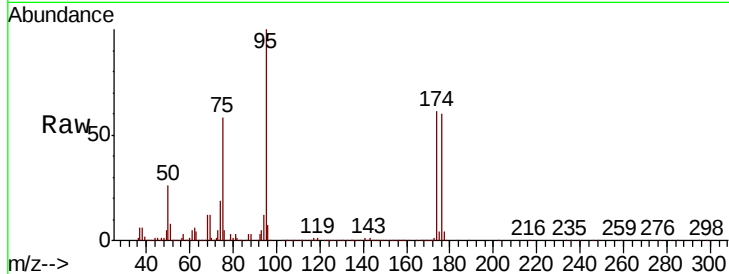


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.827 ppbv
 RT: 14.42 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 UP-SG-3(2021)
 Acq: 25 Mar 2021 22:00

Tot Ion:
 Ion Ratio
 95 100
 174 64.
 175 4.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021
 Supervised By :Mahesh Dadoda 03/29/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv m
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL036497.D
 Acq: 25 Mar 2021 22:06

Tgt Ion:105 Resp: 51405
 Ion Ratio Lower Upper
 105 100
 120 35.1 39.2 58.8#
 91 9.0 42.6 64.0#
 77 14.6 18.6 28.0#

