

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036491.D
 Acq On : 25 Mar 2021 18:06
 Operator :
 Sample : M1748-31 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 26 03:51:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 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	5.66	49	1496680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3485159	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3082004	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2376150	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

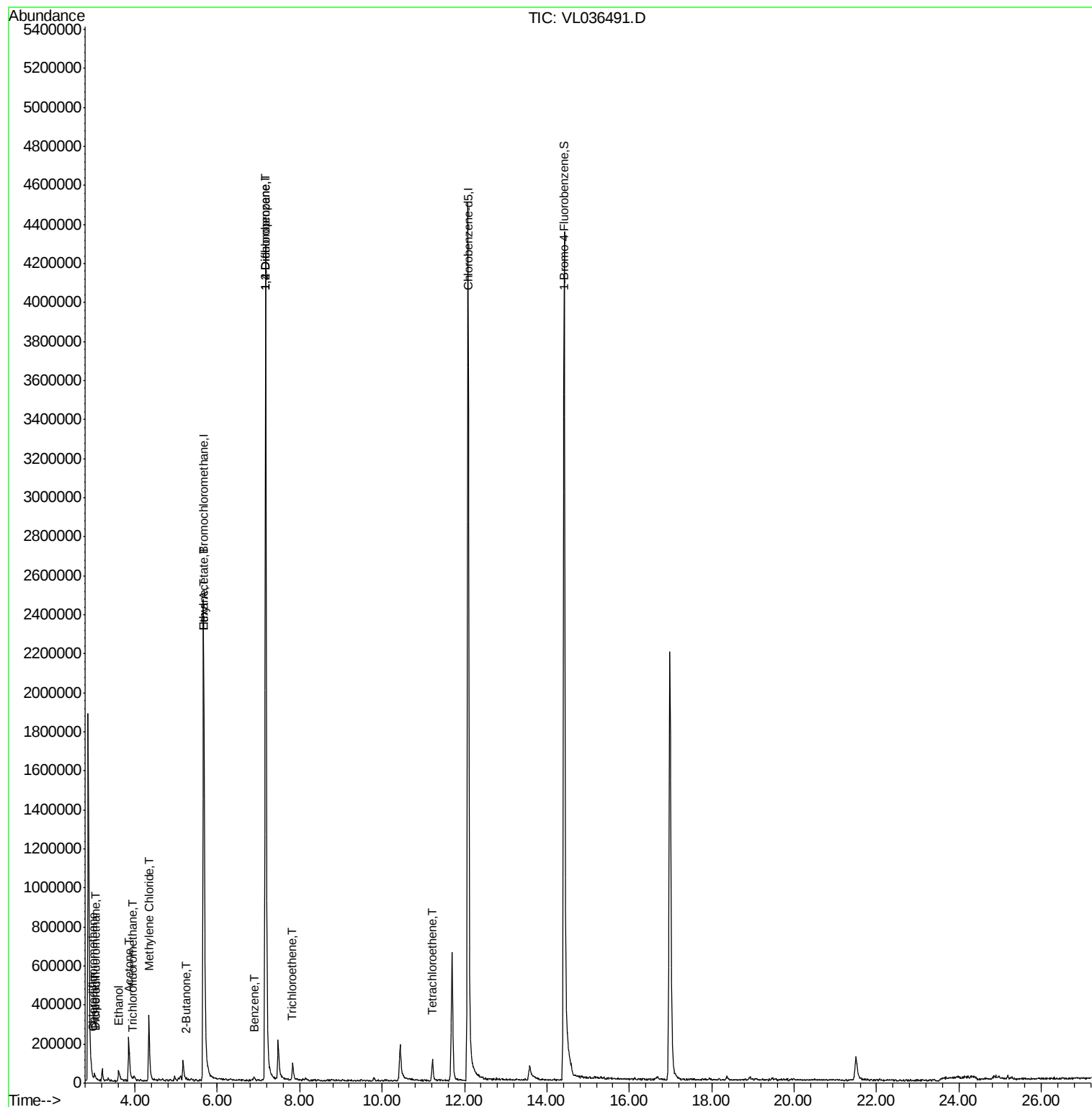
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	8734	0.036	ppbv	95
3) Chlorodifluoromethane	2.98	51	12262	0.044	ppbv #	86
9) Propene	3.01	41	7348	0.082	ppbv #	78
11) Trichlorofluoromethane	3.95	101	5676	0.023	ppbv #	82
13) Ethanol	3.60	45	62583	5.895	ppbv	86
15) Acetone	3.85	43	292858	1.988	ppbv #	88
20) Methylene Chloride	4.34	84	121040	1.755	ppbv	97
25) Ethyl Acetate	5.68	43	112141	0.320	ppbv #	78
26) Hexane	5.68	57	141877	0.873	ppbv #	46
34) 2-Butanone	5.25	43	4933	0.029	ppbv #	55
36) Benzene	6.89	78	7060	0.022	ppbv #	88
38) Trichloroethene	7.82	130	4372	0.035	ppbv	92
39) 1,2-Dichloropropane	7.17	63	965083	7.402	ppbv #	23
52) Tetrachloroethene	11.22	164	11391	0.096	ppbv #	90

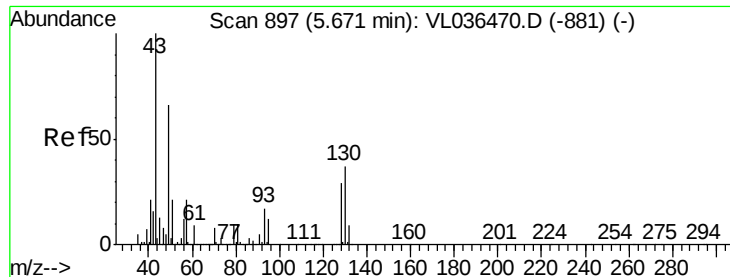
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 18:00

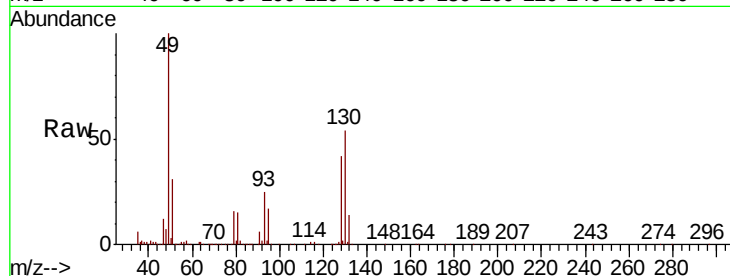
Tot Ion: 49 Resp: 1496680

Ion Ratio Lower Upper

49 100

128 45.0 23.5 70.6

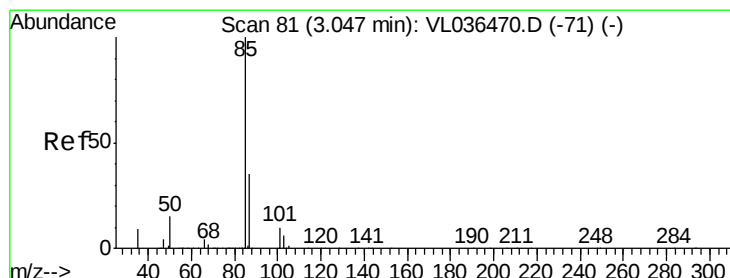
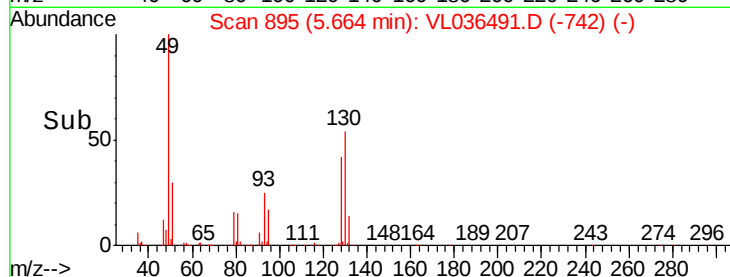
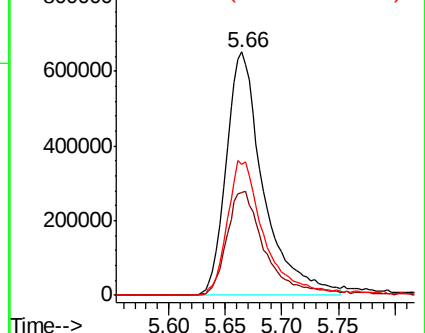
130 56.4 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036491.D

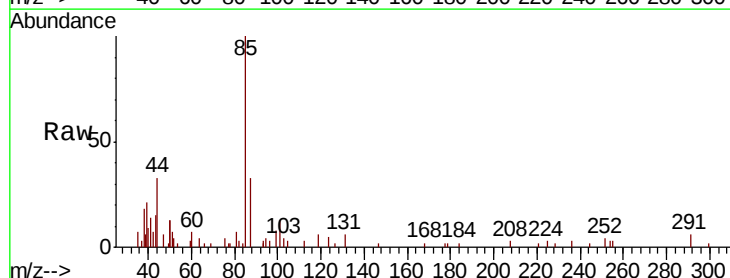
Acq: 25 Mar 2021 18:06

Tgt Ion: 85 Resp: 8734

Ion Ratio Lower Upper

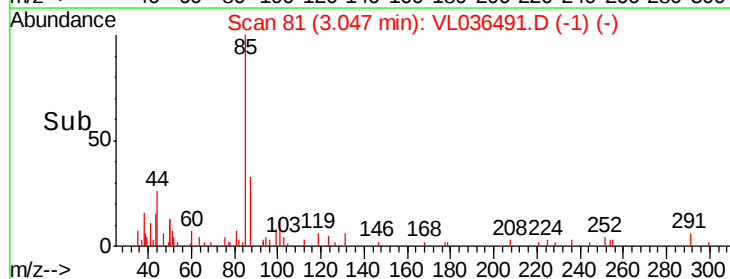
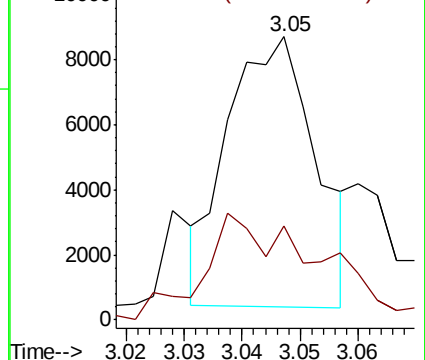
85 100

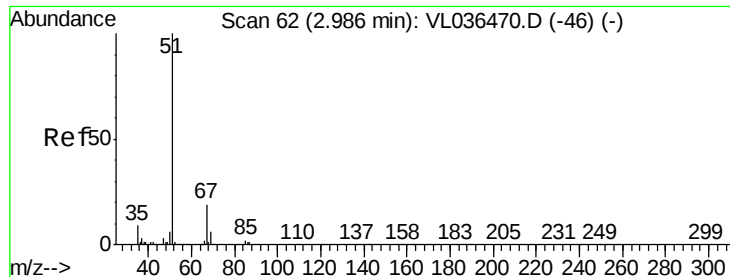
87 37.8 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

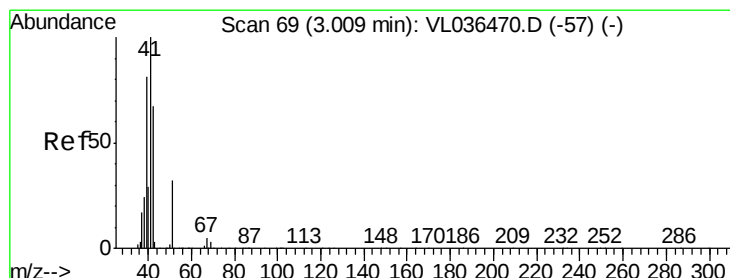
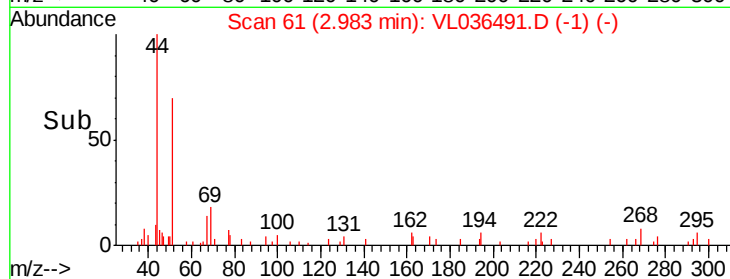
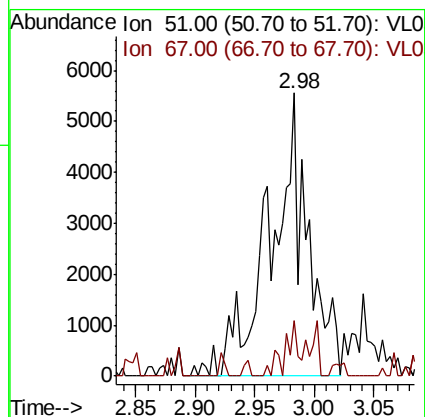
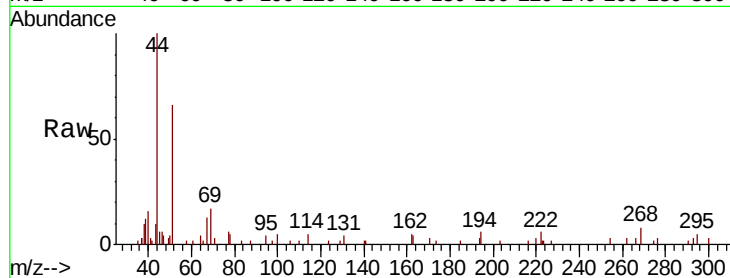
Acq: 25 Mar 2021 18:00

Tot Ion: 51 Resp: 12262

Ion Ratio Lower Upper

51 100

67 12.1 14.7 22.1#



#9

Propene

Concen: 0.082 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036491.D

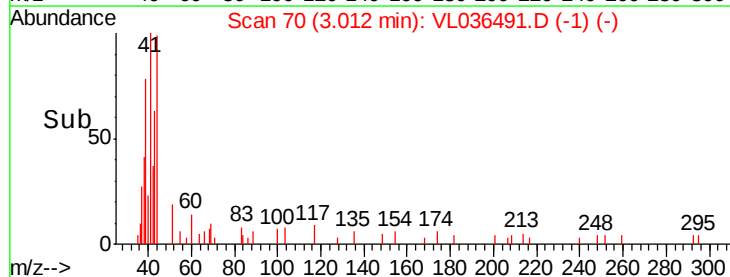
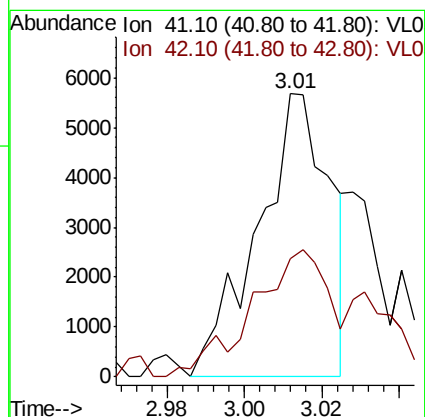
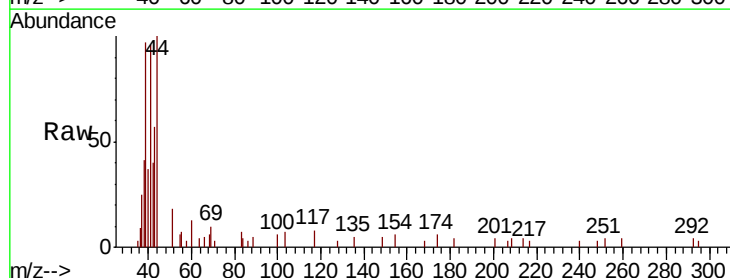
Acq: 25 Mar 2021 18:06

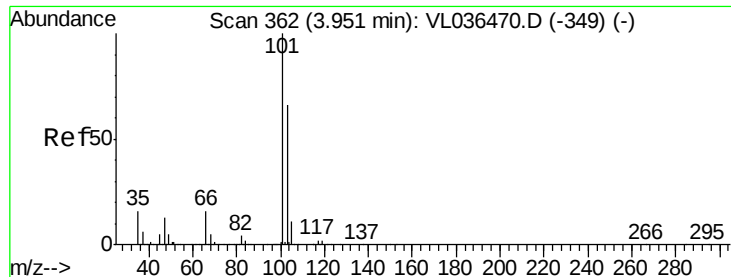
Tgt Ion: 41 Resp: 7348

Ion Ratio Lower Upper

41 100

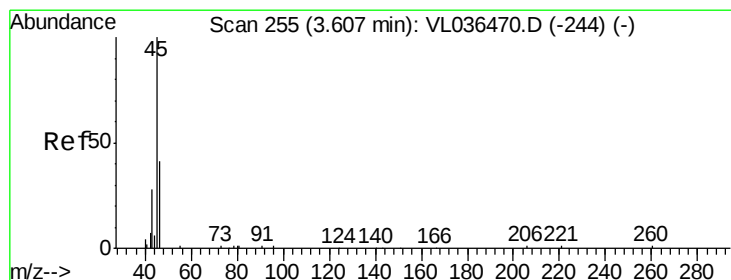
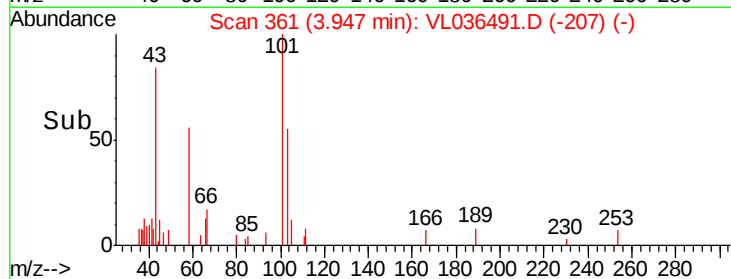
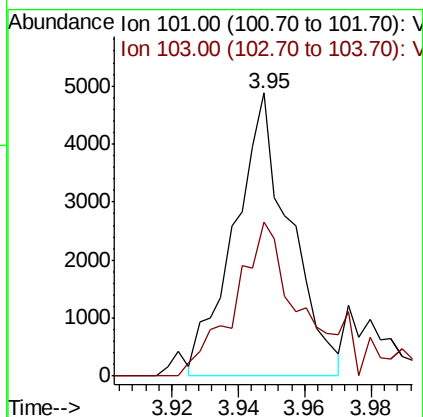
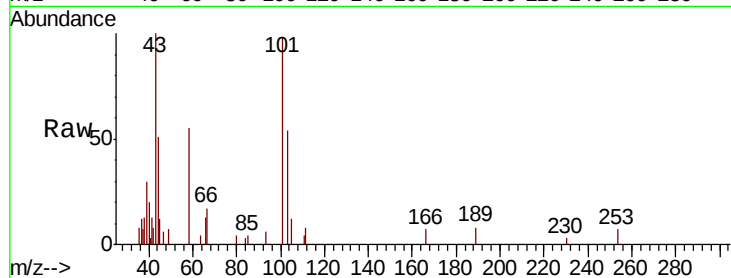
42 89.1 57.0 85.4#





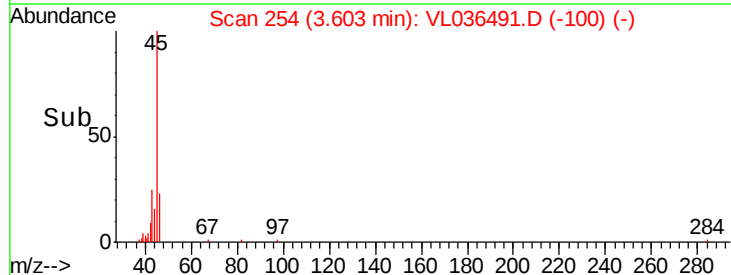
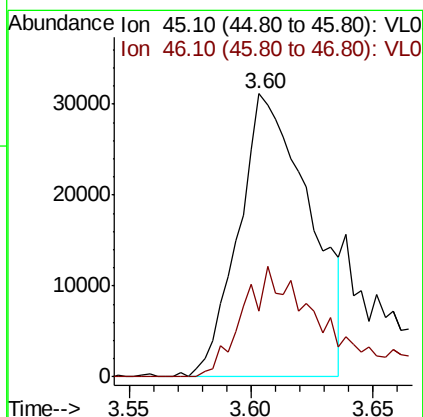
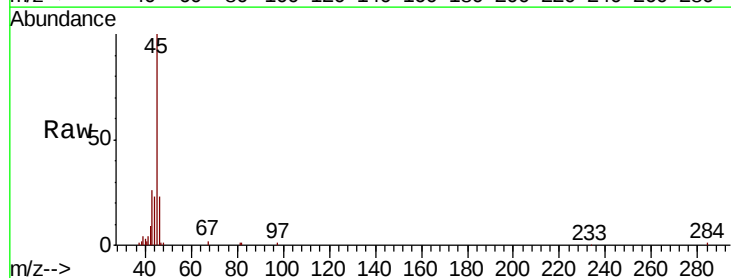
#11
 Trichlorofluoromethane
 Concen: 0.023 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 18:00

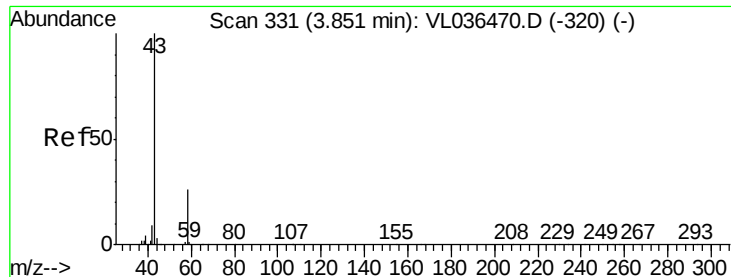
Tot Ion: 101 Resp: 5676
 Ion Ratio Lower Upper
 101 100
 103 51.4 52.5 78.7#



#13
 Ethanol
 Concen: 5.895 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VL036491.D
 Acq: 25 Mar 2021 18:06

Tgt Ion: 45 Resp: 62583
 Ion Ratio Lower Upper
 45 100
 46 50.1 16.6 66.2





#15

Acetone

Concen: 1.988 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

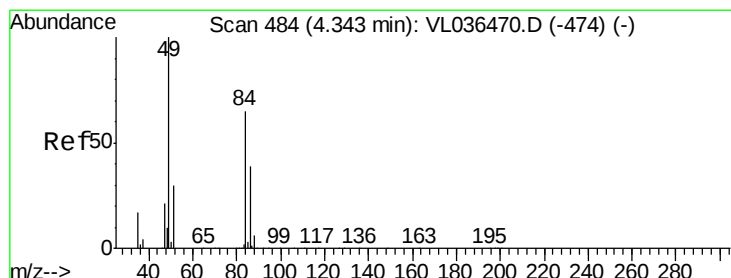
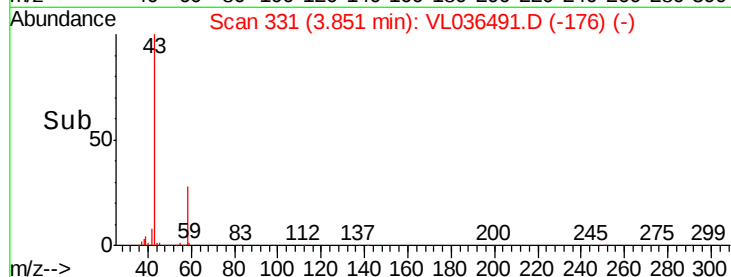
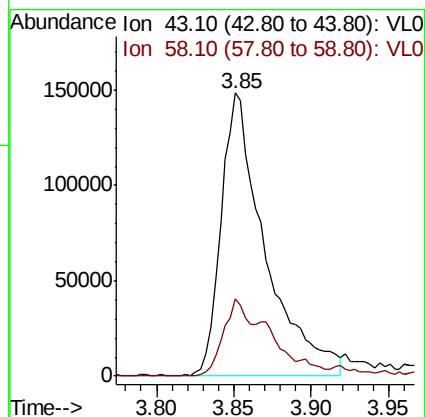
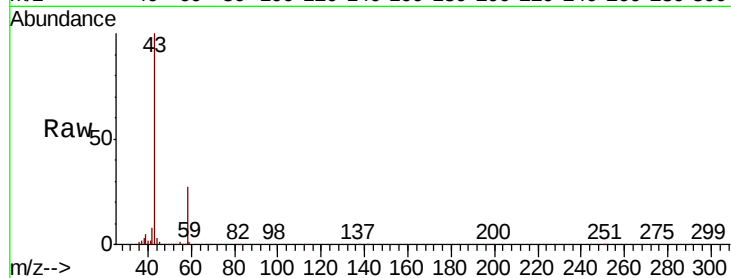
Acq: 25 Mar 2021 18:00

Tot Ion: 43 Resp: 292858

Ion Ratio Lower Upper

43 100

58 32.6 21.2 31.8#



#20

Methylene Chloride

Concen: 1.755 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036491.D

Acq: 25 Mar 2021 18:06

Tgt Ion: 84 Resp: 121040

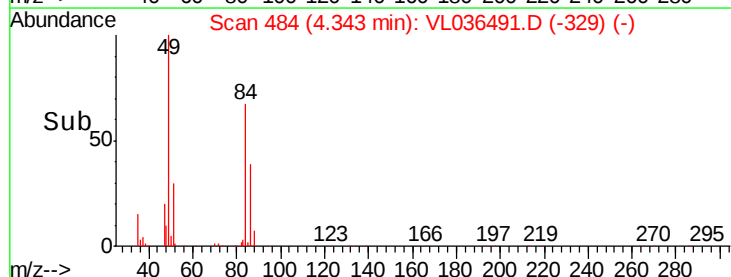
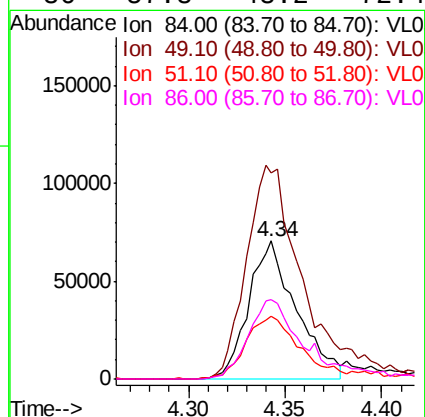
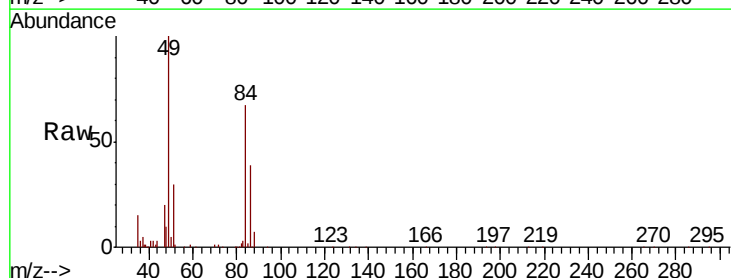
Ion Ratio Lower Upper

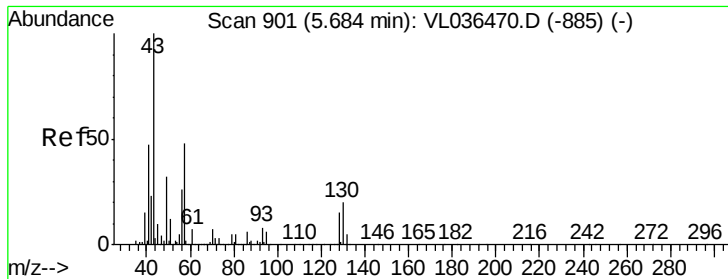
84 100

49 149.2 122.9 184.3

51 45.2 36.9 55.3

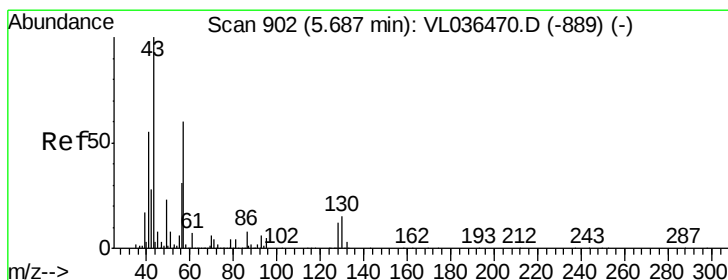
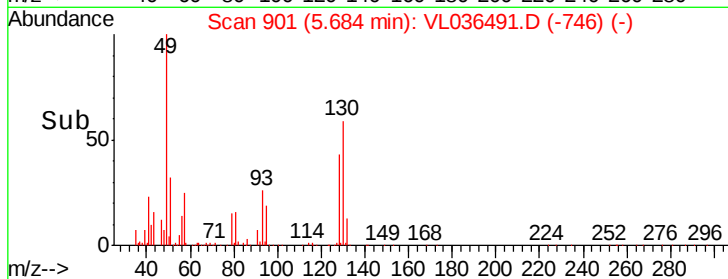
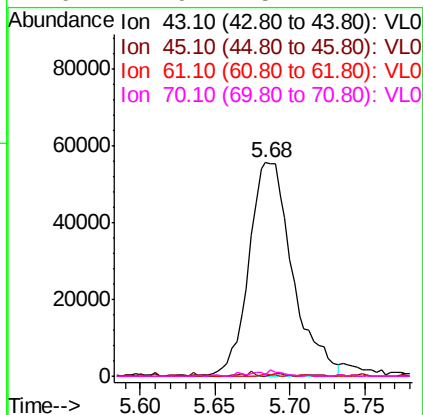
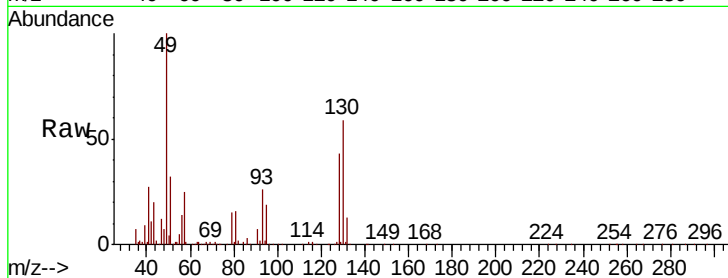
86 57.8 48.2 72.4





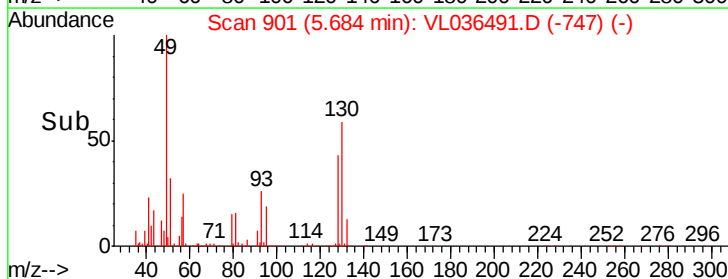
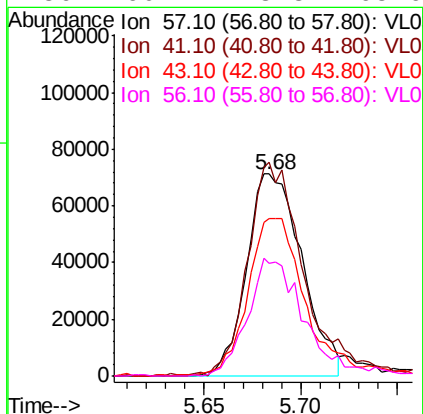
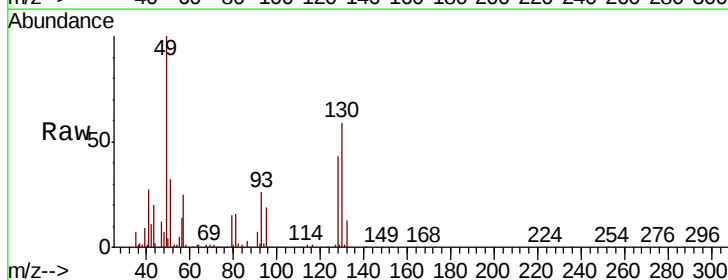
#25
Ethyl Acetate
Concen: 0.320 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 18:00

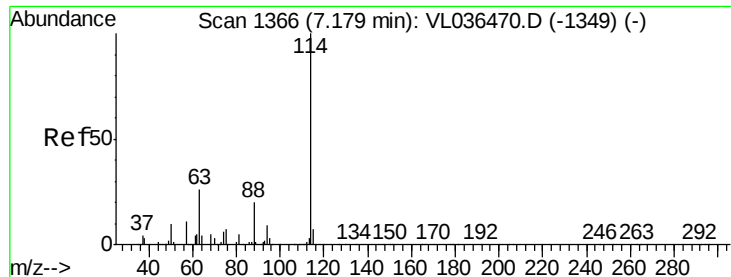
Tot Ion:	43	Resp:	112141
Ion	Ratio	Lower	Upper
43	100		
45	1.0	7.9	11.9#
61	0.4	7.4	11.2#
70	1.9	5.1	7.7#



#26
Hexane
Concen: 0.873 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036491.D
Acq: 25 Mar 2021 18:06

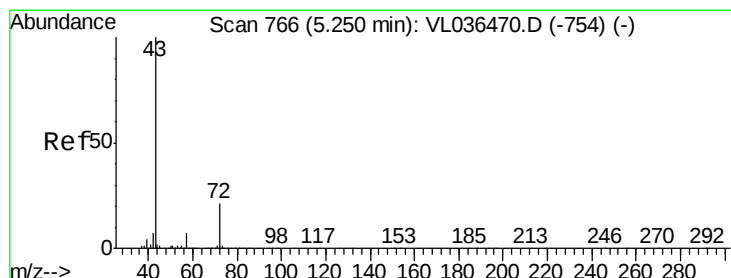
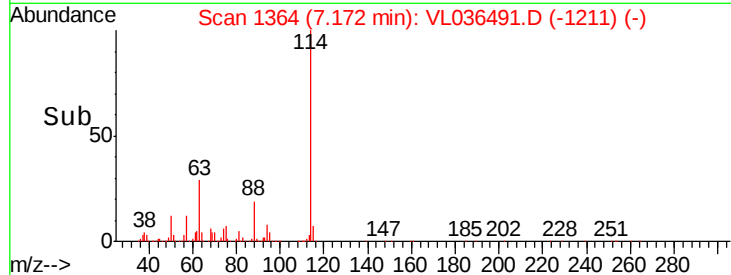
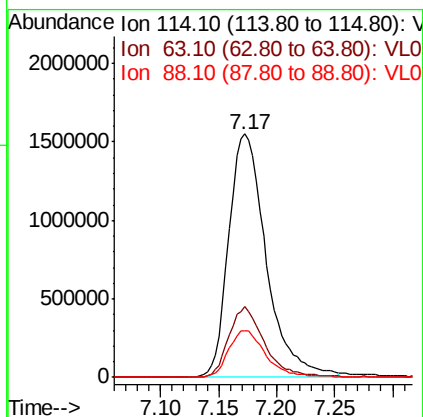
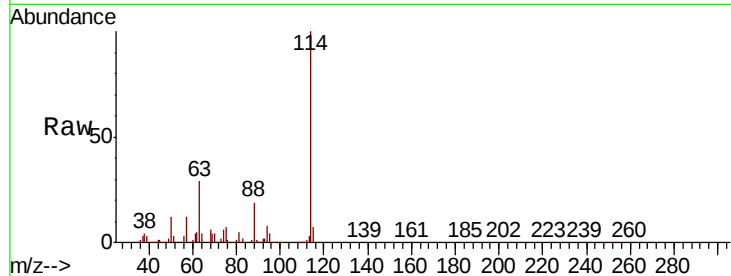
Tgt Ion:	57	Resp:	141877
Ion	Ratio	Lower	Upper
57	100		
41	112.0	77.2	115.8
43	84.5	173.8	260.6#
56	60.4	43.8	65.6





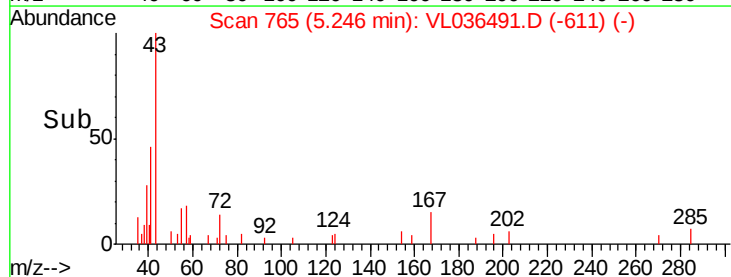
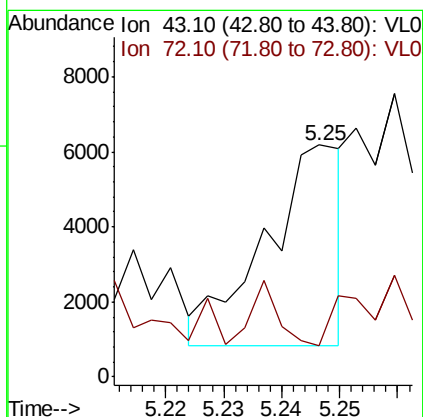
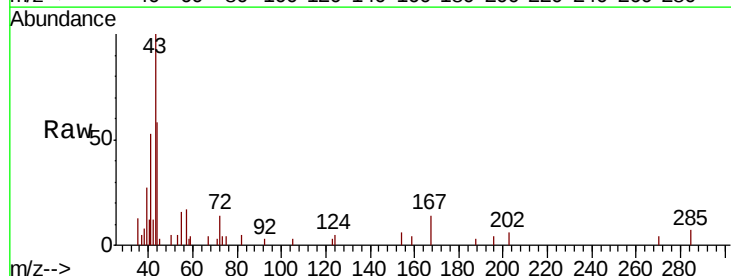
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 18:00

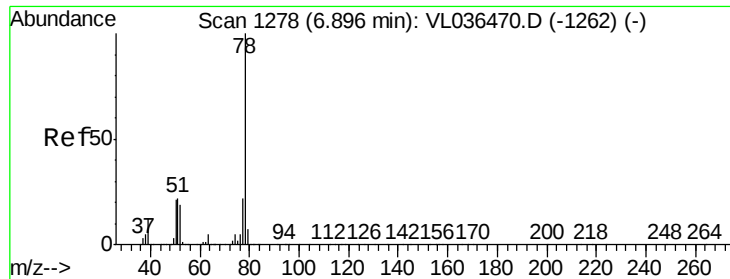
Tot Ion: 114 Resp: 3485159
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.4 33.6
 88 19.5 15.4 23.0



#34
 2-Butanone
 Concen: 0.029 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T.: -0.00 min
 Lab File: VL036491.D
 Acq: 25 Mar 2021 18:06

Tgt Ion: 43 Resp: 4933
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#





#36

Benzene

Concen: 0.022 ppbv

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 18:00

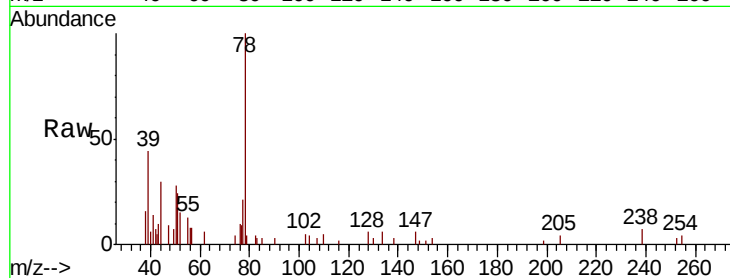
Tot Ion: 78 Resp: 7060

Ion Ratio Lower Upper

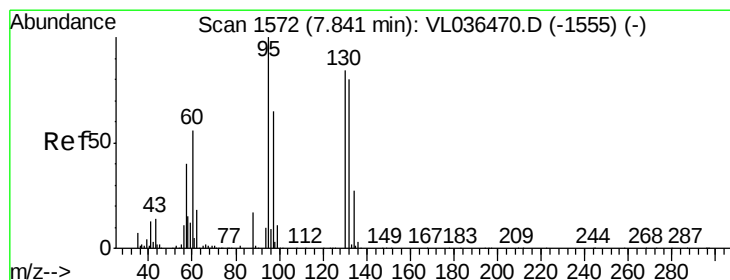
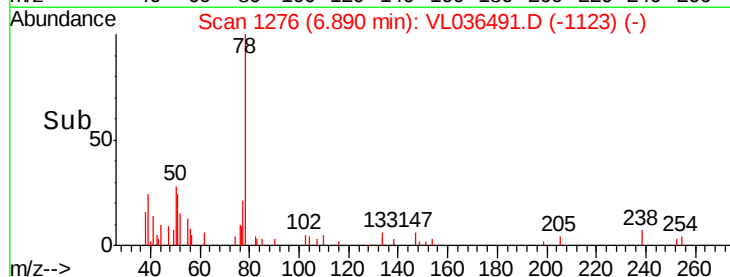
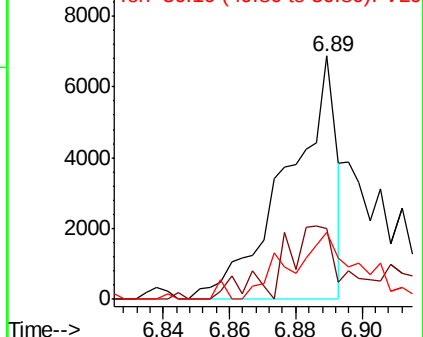
78 100

77 28.0 18.0 27.0#

50 26.5 16.5 24.7#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.035 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. -0.03 min

Lab File: VL036491.D

Acq: 25 Mar 2021 18:06

Tgt Ion: 130 Resp: 4372

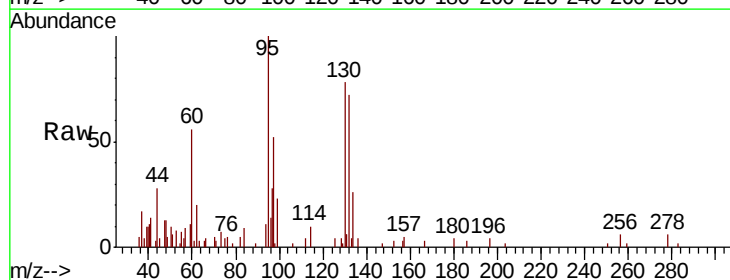
Ion Ratio Lower Upper

130 100

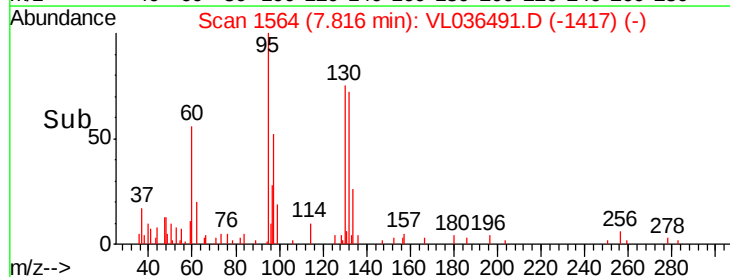
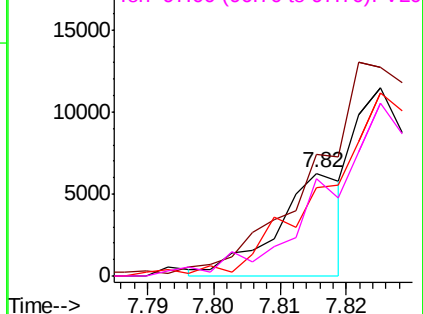
95 117.1 95.7 143.5

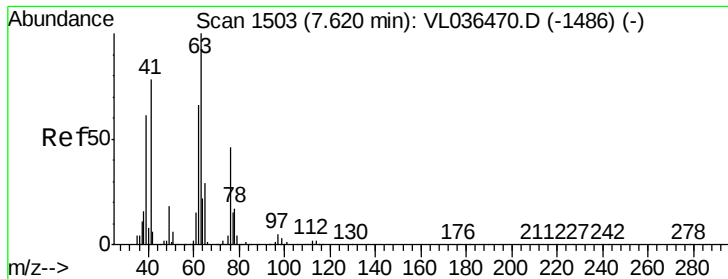
132 88.3 76.2 114.4

97 91.3 61.8 92.6



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.402 ppbv

RT: 7.17 Instrument:

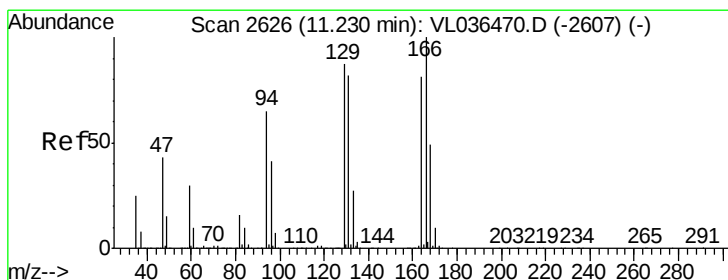
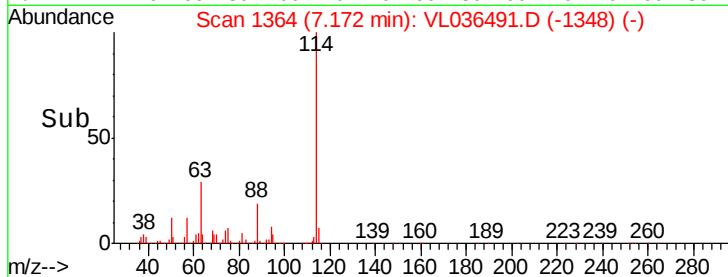
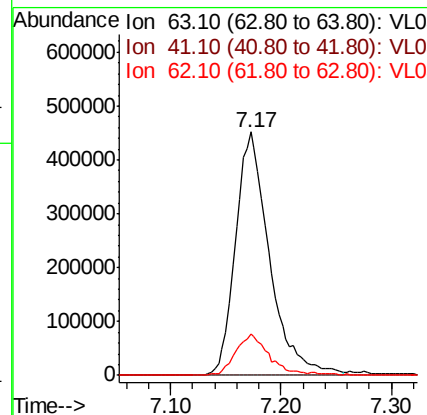
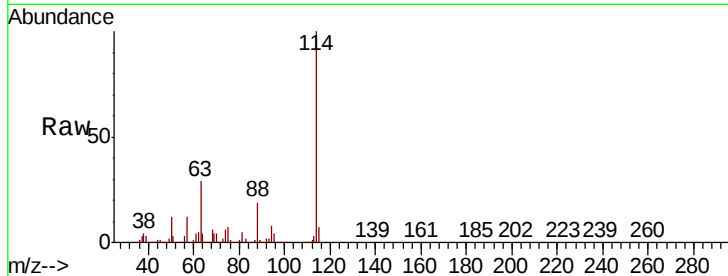
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 18:00

Tot Ion: 63 Resp: 965083

Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.4	93.6#
62	17.0	52.8	79.2#



#52

Tetrachloroethene

Concen: 0.096 ppbv

RT: 11.22 min Scan# 2622

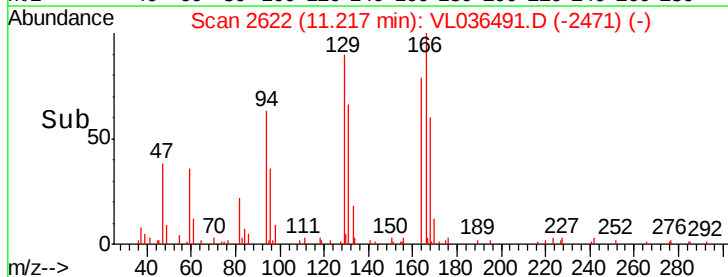
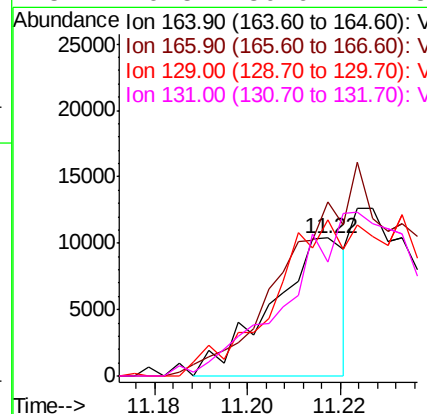
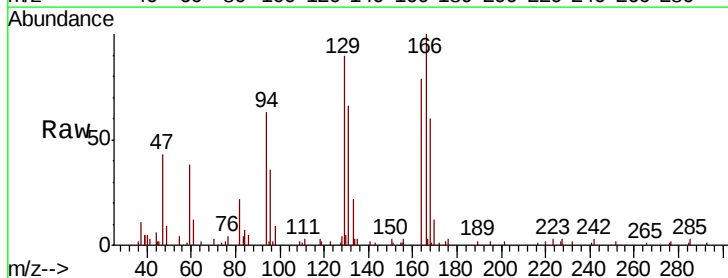
Delta R.T. -0.01 min

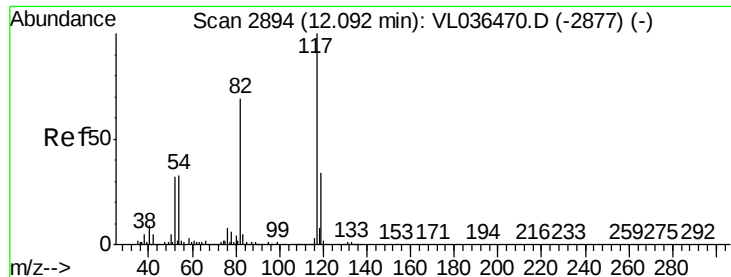
Lab File: VL036491.D

Acq: 25 Mar 2021 18:06

Tgt Ion: 164 Resp: 11391

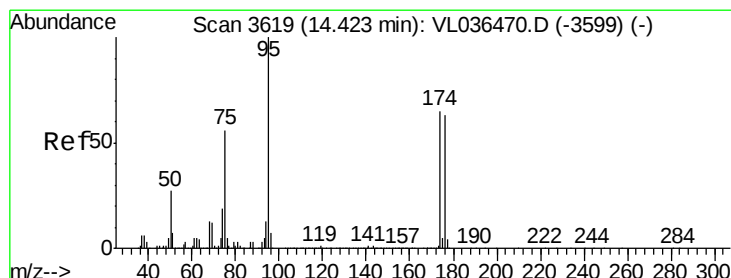
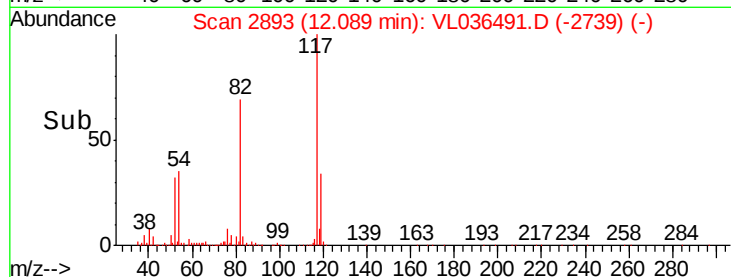
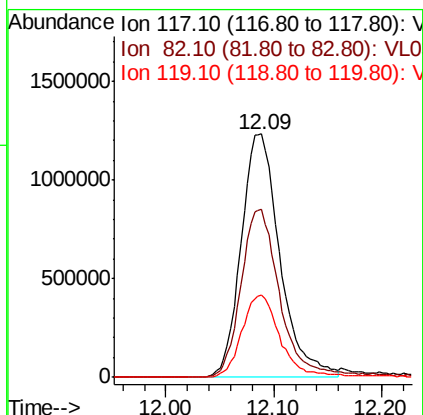
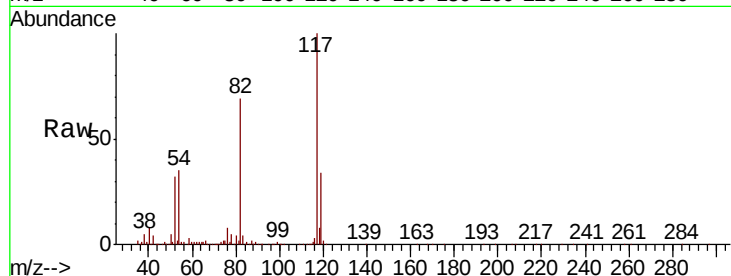
Ion	Ratio	Lower	Upper
164	100		
166	117.7	98.3	147.5
129	102.2	85.8	128.8
131	79.5	80.9	121.3#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 18:00

Tot Ion: 117 Resp: 3082004
Ion Ratio Lower Upper
117 100
82 70.4 57.4 86.0
119 33.7 47.4 71.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.673 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036491.D
Acq: 25 Mar 2021 18:06

Tgt Ion: 95 Resp: 2376150
Ion Ratio Lower Upper
95 100
174 67.5 51.0 76.6
175 4.8 3.9 5.9

