

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036496.D
 Acq On : 25 Mar 2021 21:26
 Operator :
 Sample : M1748-31
 Misc : 400ml/MSVOA L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 26 03:53:02 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	1558281	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3567532	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3221385	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2457403	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

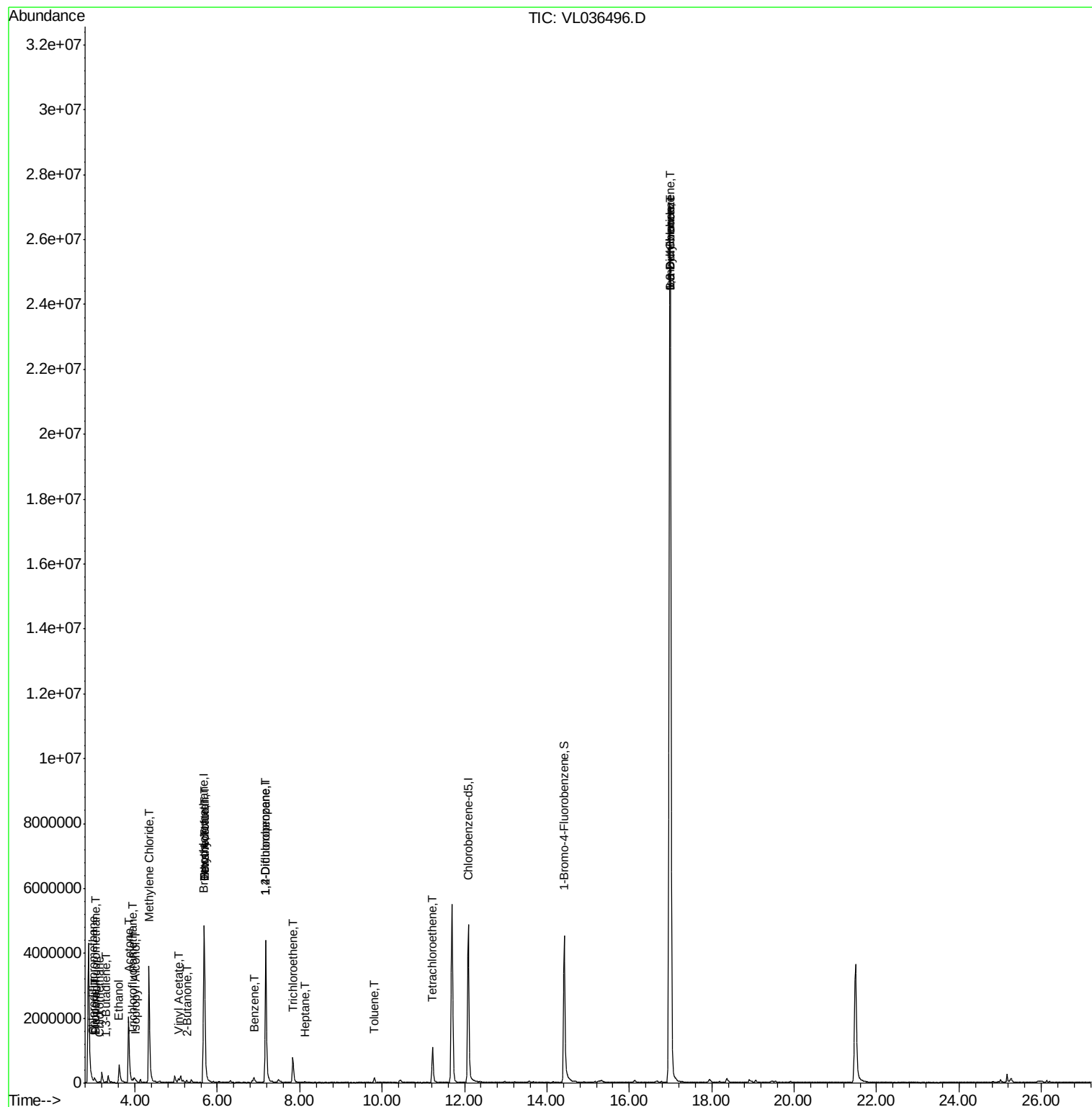
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	42486	0.167 ppbv	95
3) Chlorodifluoromethane	2.98	51	103760	0.356 ppbv #	85
4) Chloromethane	3.14	50	33023	0.321 ppbv	100
9) Propene	3.01	41	19343	0.208 ppbv #	54
10) Heptane	8.12	43	6486	0.027 ppbv #	71
11) Trichlorofluoromethane	3.95	101	51446	0.199 ppbv	90
13) Ethanol	3.62	45	711590	64.381 ppbv	98
15) Acetone	3.84	43	2681784	17.486 ppbv	99
16) 1,3-Butadiene	3.30	39	5772	0.054 ppbv #	13
19) Isopropyl Alcohol	4.02	45	15757	0.187 ppbv #	89
20) Methylene Chloride	4.34	84	1441772	20.078 ppbv	93
23) Vinyl Acetate	5.07	43	84908	0.324 ppbv #	84
25) Ethyl Acetate	5.68	43	1190287	3.264 ppbv #	78
26) Hexane	5.68	57	1609919	9.514 ppbv #	47
34) 2-Butanone	5.25	43	40374	0.232 ppbv #	49
36) Benzene	6.89	78	127103	0.386 ppbv	95
38) Trichloroethene	7.84	130	249087	1.945 ppbv	98
39) 1,2-Dichloropropane	7.18	63	977784	7.326 ppbv #	23
41) Tetrahydrofuran	5.69	42	658802	8.205 ppbv #	53
52) Tetrachloroethene	11.23	164	254921	2.104 ppbv	98
53) Toluene	9.81	91	111727	0.319 ppbv	97
65) tert-Butylbenzene	17.00	119	438622	0.950 ppbv #	21
66) Benzyl Chloride	16.99	91	2196	0.043 ppbv #	37
75) 1,3-Dichlorobenzene	17.00	146	6903	0.028 ppbv #	22

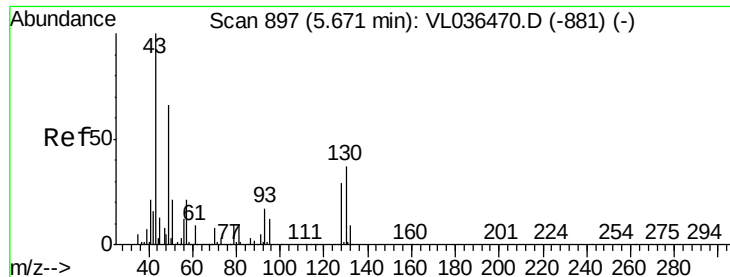
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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 21:20

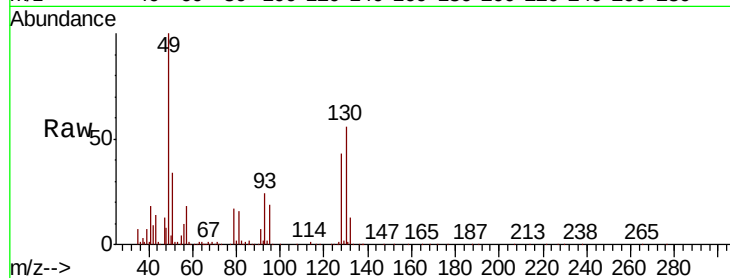
Tot Ion: 49 Resp: 1558281

Ion Ratio Lower Upper

49 100

128 43.9 23.5 70.6

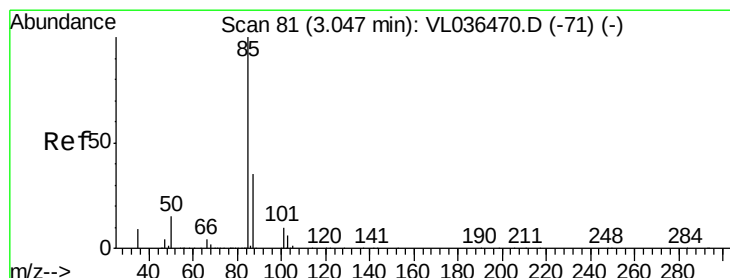
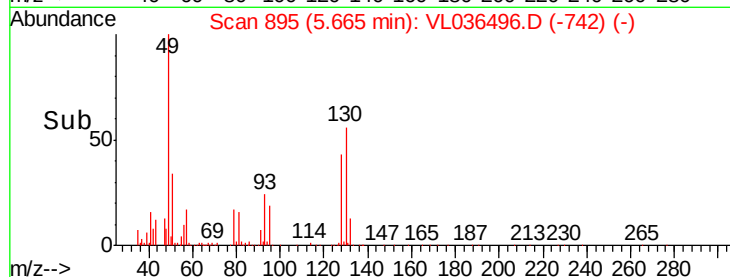
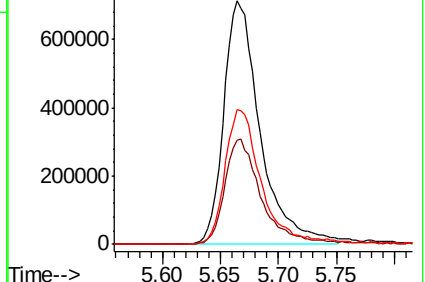
130 56.5 29.1 87.4



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: 0.167 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036496.D

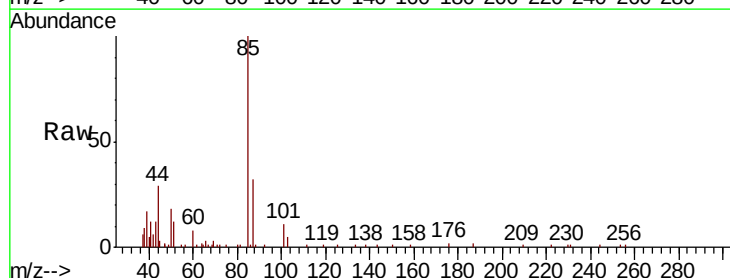
Acq: 25 Mar 2021 21:26

Tgt Ion: 85 Resp: 42486

Ion Ratio Lower Upper

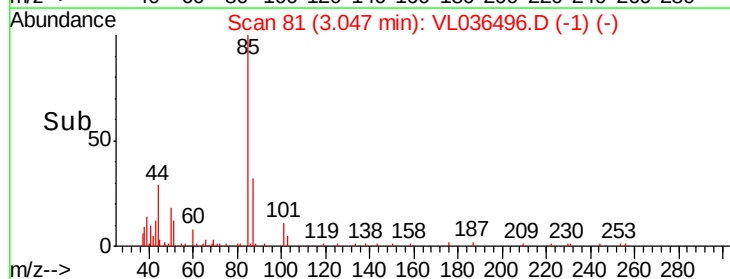
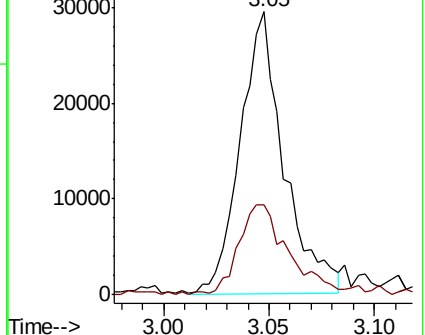
85 100

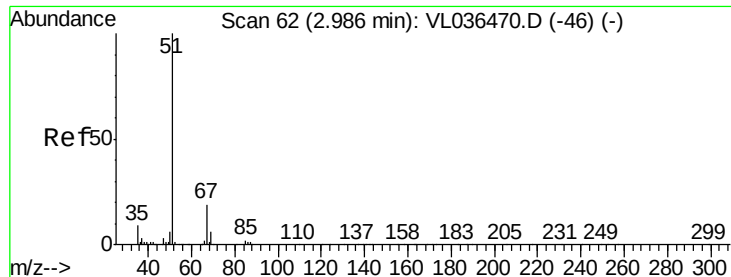
87 31.9 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.356 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

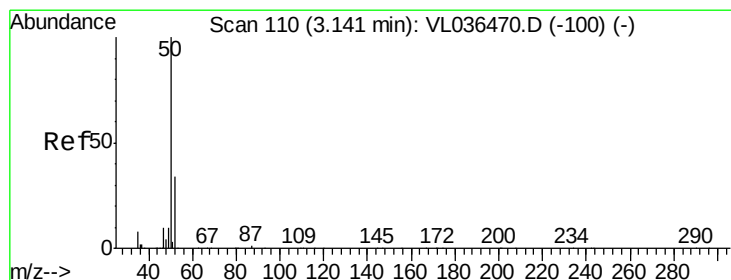
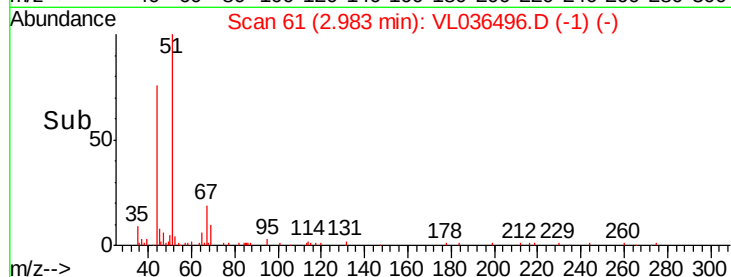
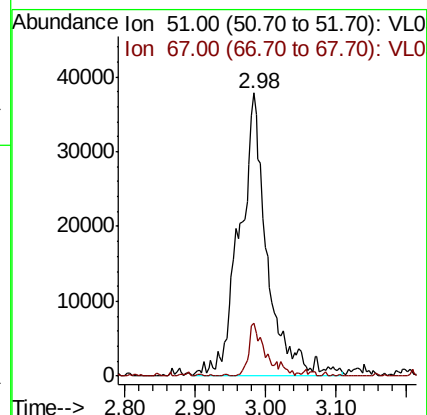
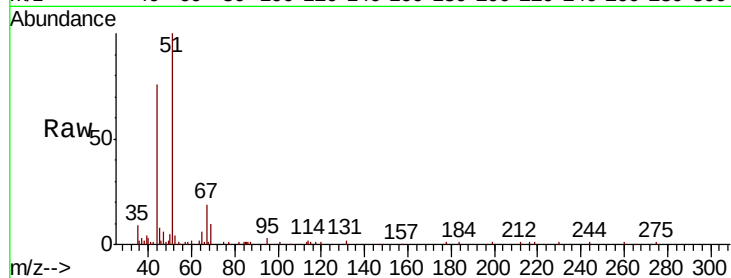
Acq: 25 Mar 2021 21:20

Tot Ion: 51 Resp: 103760

Ion Ratio Lower Upper

51 100

67 11.7 14.7 22.1#



#4

Chloromethane

Concen: 0.321 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036496.D

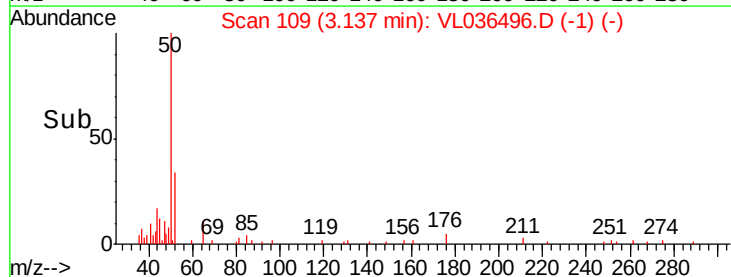
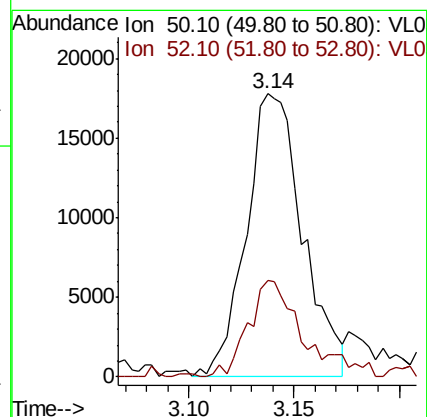
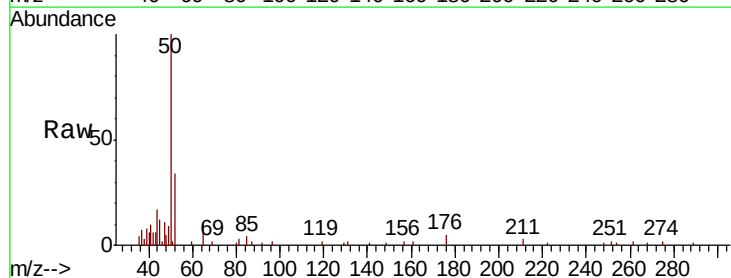
Acq: 25 Mar 2021 21:26

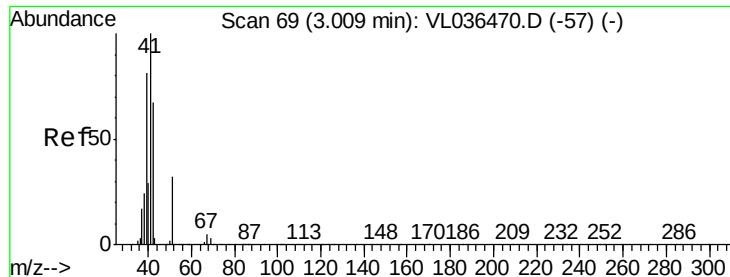
Tgt Ion: 50 Resp: 33023

Ion Ratio Lower Upper

50 100

52 34.0 27.0 40.6





#9

Propene

Concen: 0.208 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

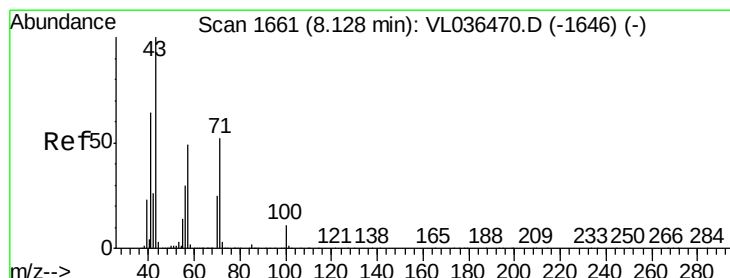
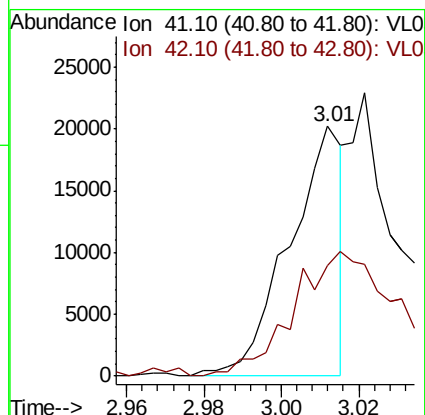
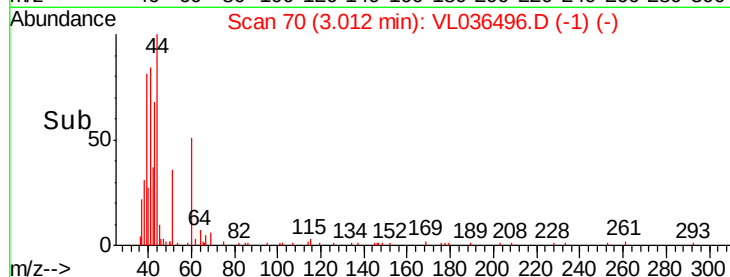
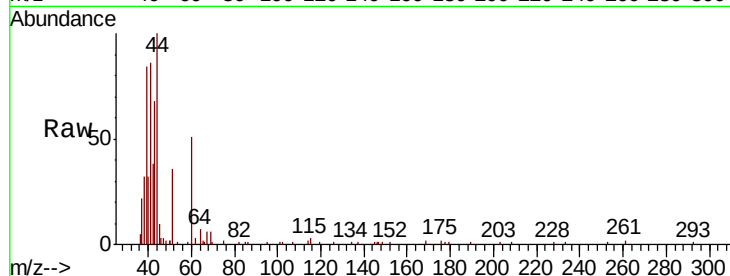
Acq: 25 Mar 2021 21:20

Tot Ion: 41 Resp: 19343

Ion Ratio Lower Upper

41 100

42 109.0 57.0 85.4#



#10

Heptane

Concen: 0.027 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL036496.D

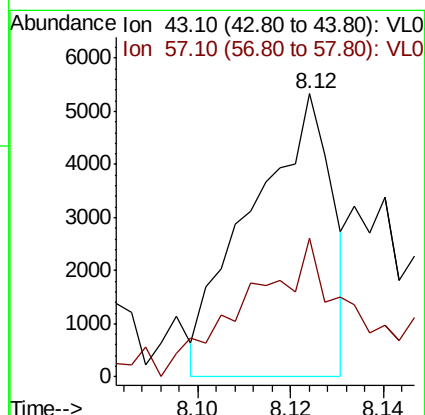
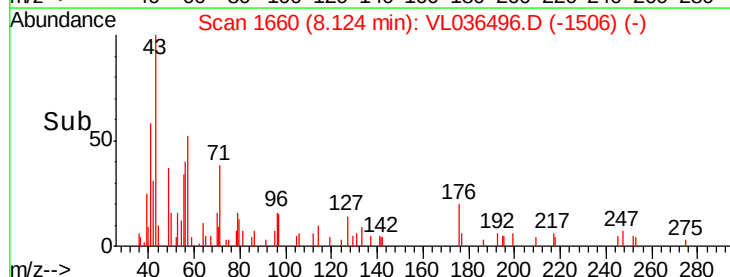
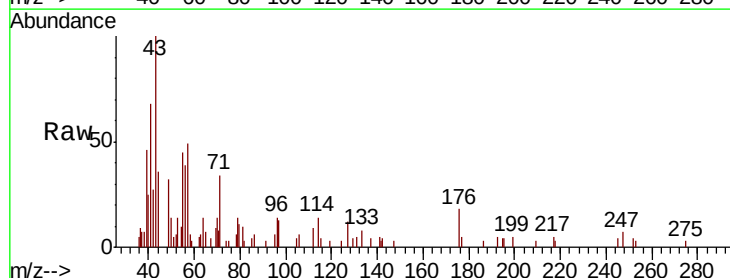
Acq: 25 Mar 2021 21:26

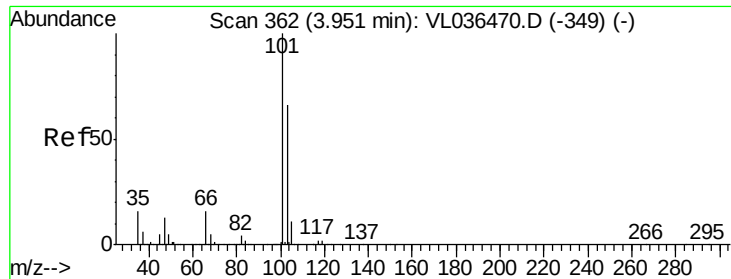
Tgt Ion: 43 Resp: 6486

Ion Ratio Lower Upper

43 100

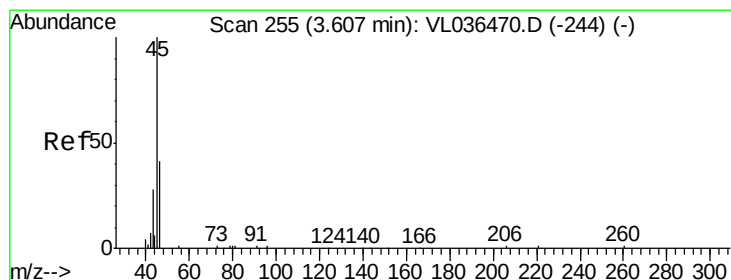
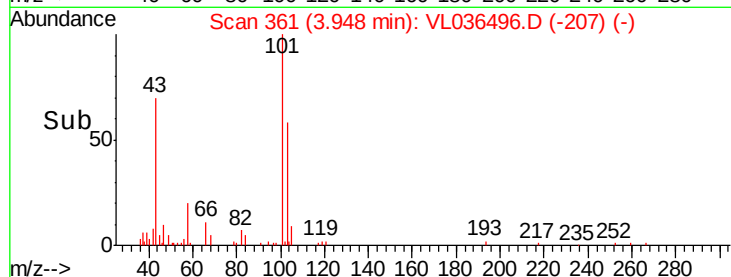
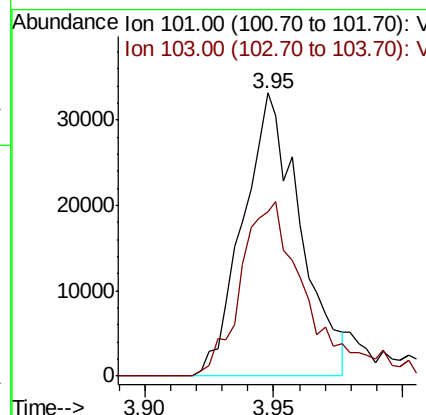
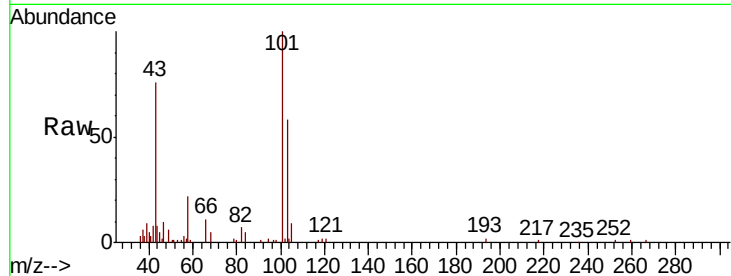
57 68.3 39.0 58.6#





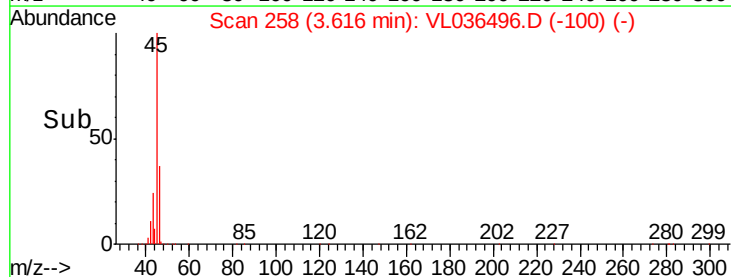
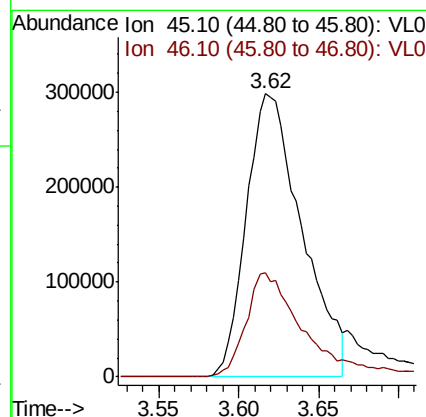
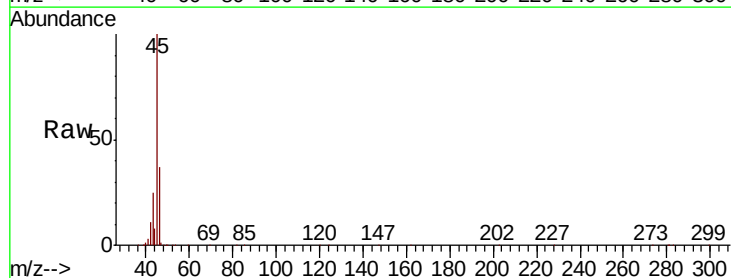
#11
 Trichlorofluoromethane
 Concen: 0.199 ppbv
 RT: 3.95 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 21:26

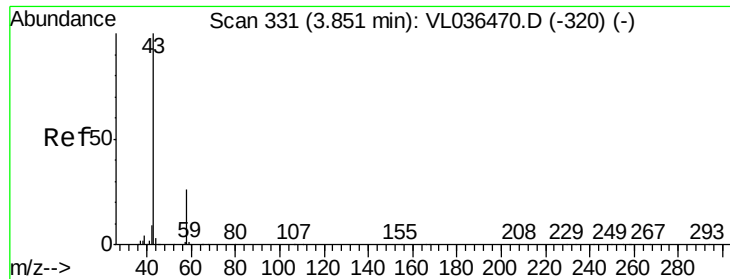
Tot Ion: 101 Resp: 51446
 Ion Ratio Lower Upper
 101 100
 103 58.0 52.5 78.7



#13
 Ethanol
 Concen: 64.381 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T.: 0.01 min
 Lab File: VL036496.D
 Acq: 25 Mar 2021 21:26

Tgt Ion: 45 Resp: 711590
 Ion Ratio Lower Upper
 45 100
 46 40.0 16.6 66.2





#15

Acetone

Concen: 17.486 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

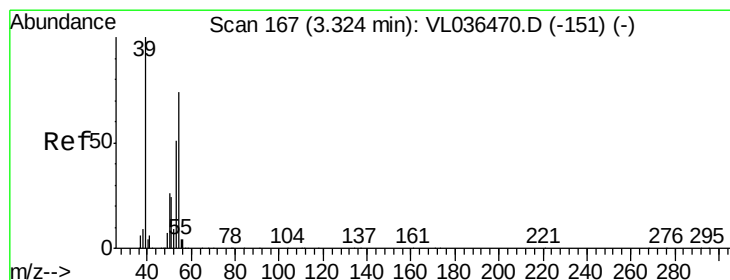
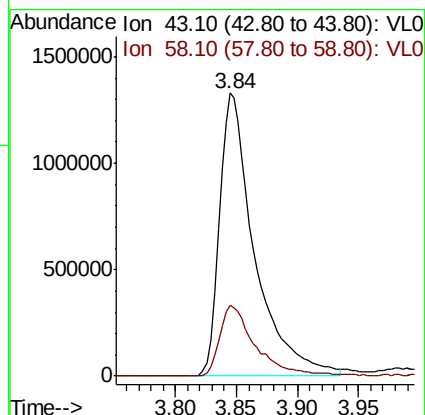
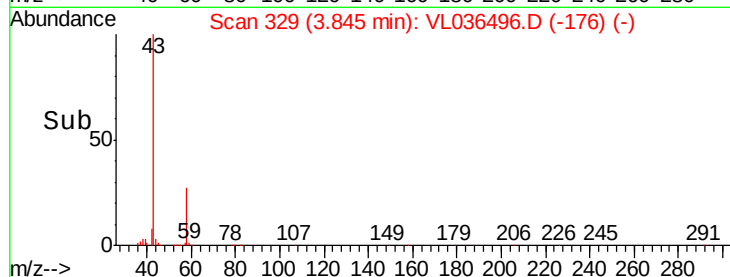
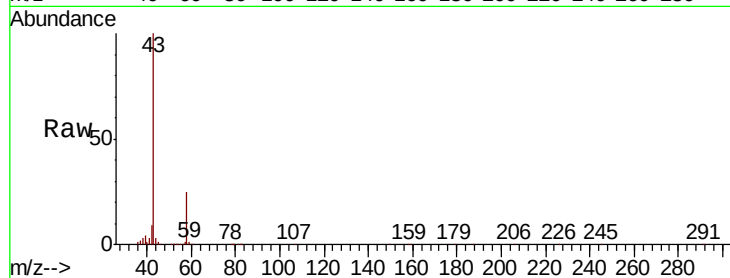
Acq: 25 Mar 2021 21:26

Tot Ion: 43 Resp: 2681784

Ion Ratio Lower Upper

43 100

58 25.8 21.2 31.8



#16

1,3-Butadiene

Concen: 0.054 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL036496.D

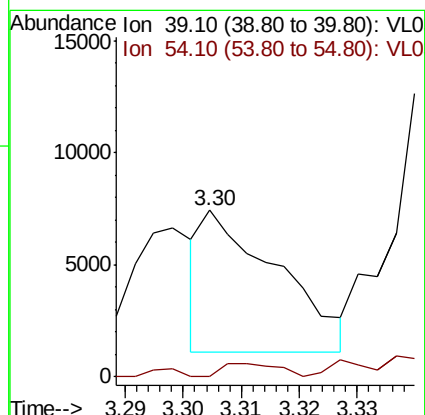
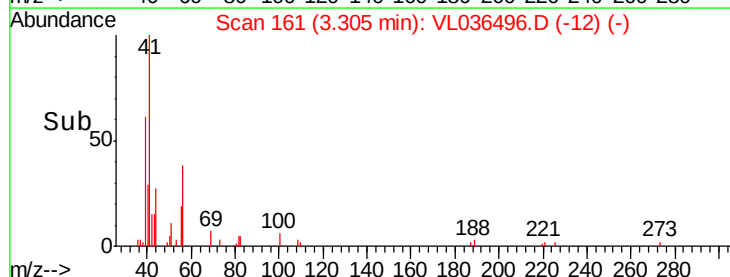
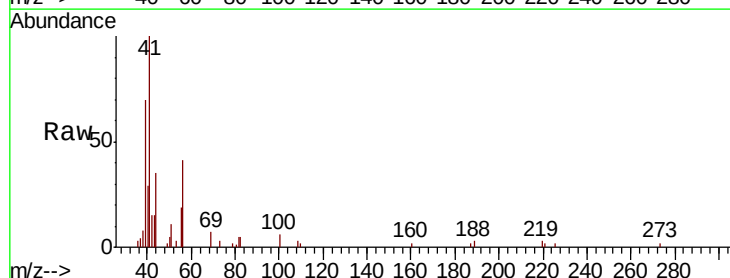
Acq: 25 Mar 2021 21:26

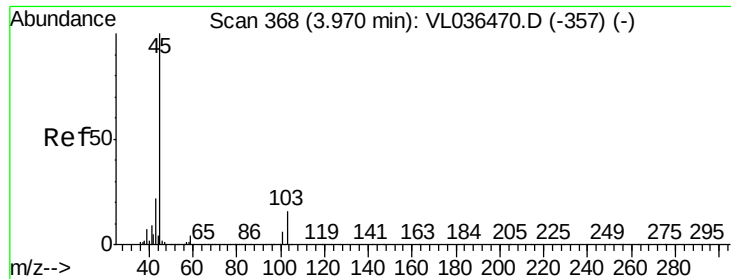
Tgt Ion: 39 Resp: 5772

Ion Ratio Lower Upper

39 100

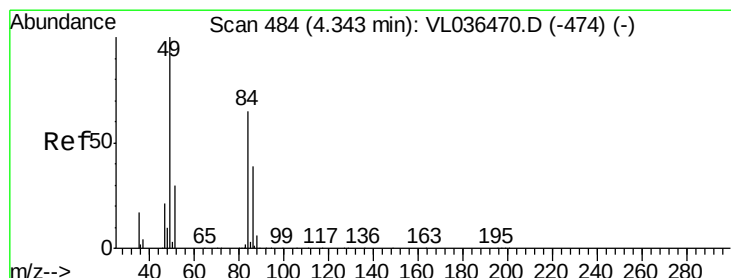
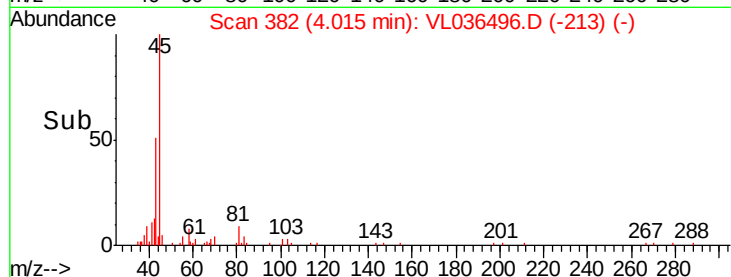
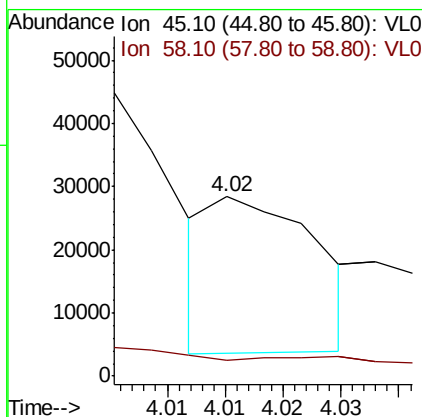
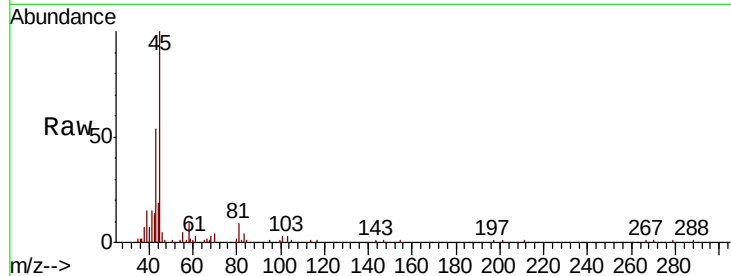
54 0.0 58.8 88.2#





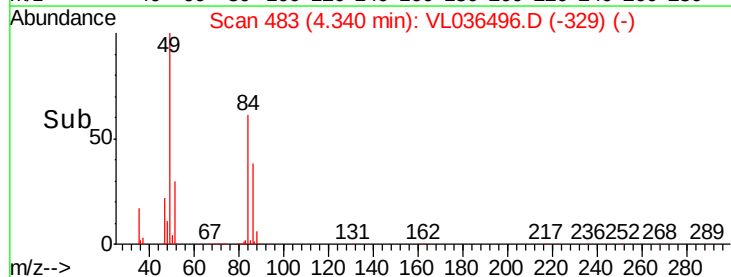
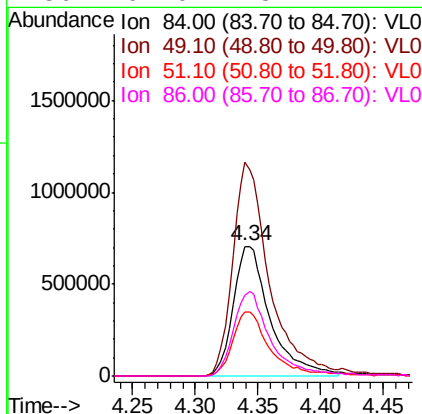
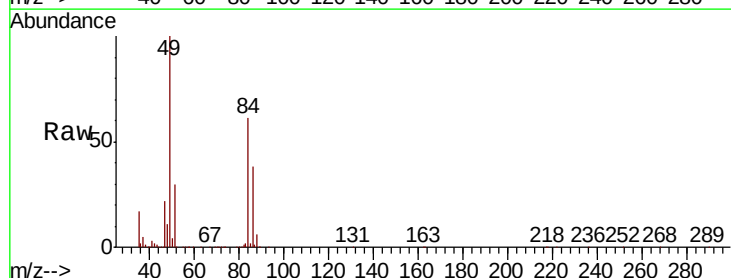
#19
Isopropyl Alcohol
Concen: 0.187 ppbv
RT: 4.02
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 21:26

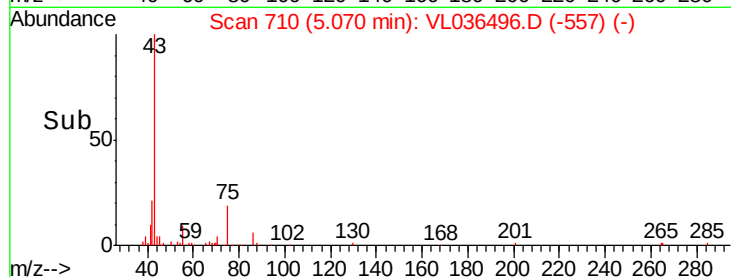
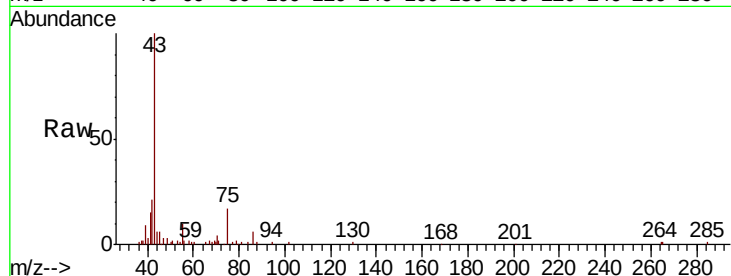
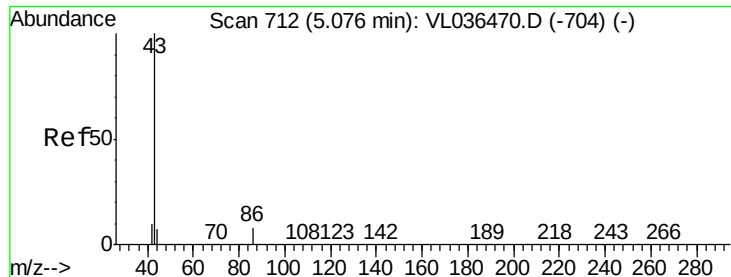
Tot Ion: 45 Resp: 15757
Ion Ratio Lower Upper
45 100
58 0.0 2.9 4.3#



#20
Methylene Chloride
Concen: 20.078 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036496.D
Acq: 25 Mar 2021 21:26

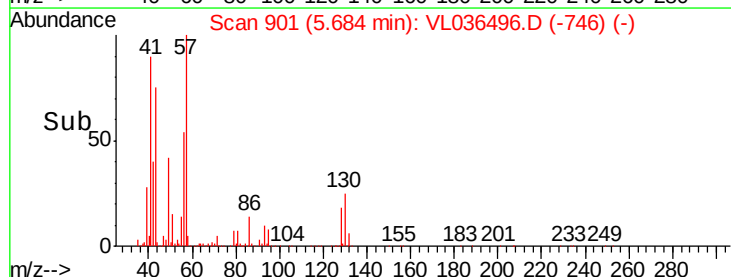
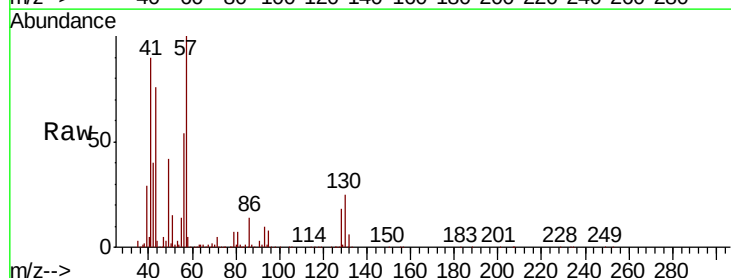
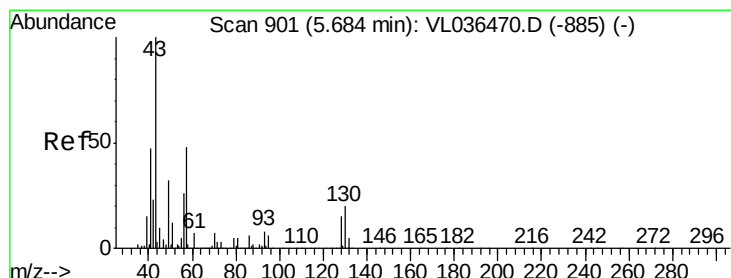
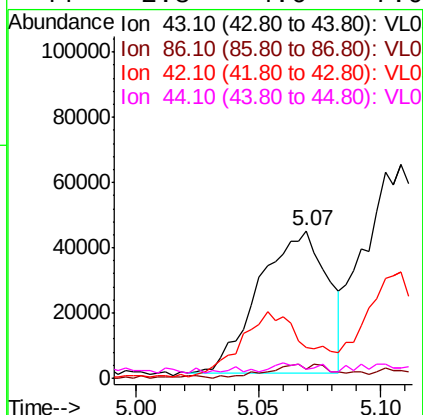
Tgt Ion: 84 Resp: 1441772
Ion Ratio Lower Upper
84 100
49 165.0 122.9 184.3
51 49.7 36.9 55.3
86 62.0 48.2 72.4





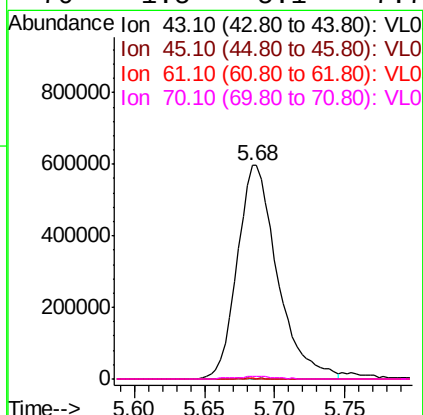
#23
 Vinyl Acetate
 Concen: 0.324 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 21:20

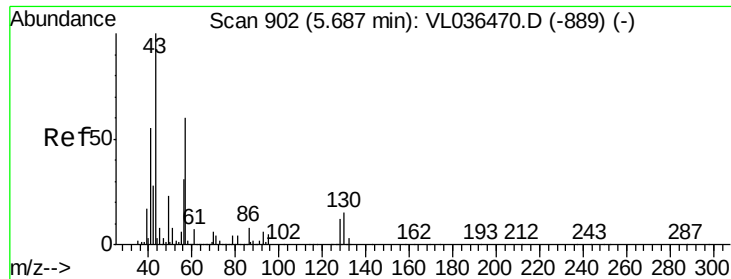
Tot Ion:	43	Resp:	84908
Ion	Ratio	Lower	Upper
43	100		
86	5.0	5.4	8.0#
42	20.6	8.5	12.7#
44	2.8	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 3.264 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VL036496.D
 Acq: 25 Mar 2021 21:26

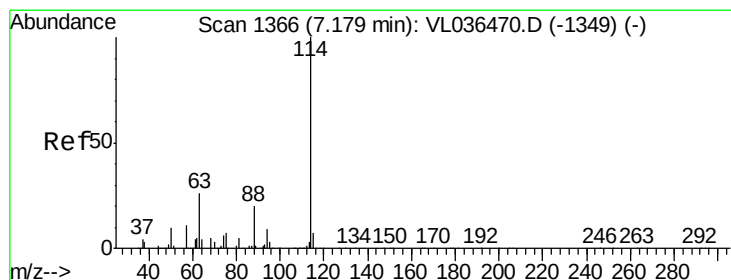
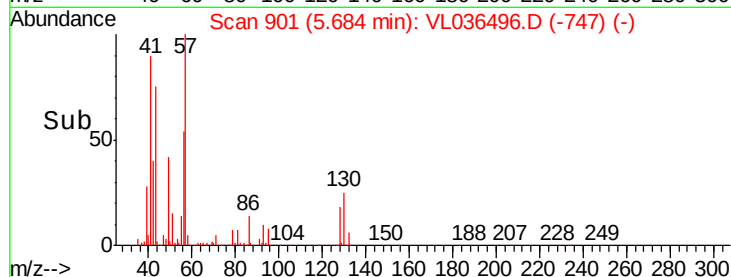
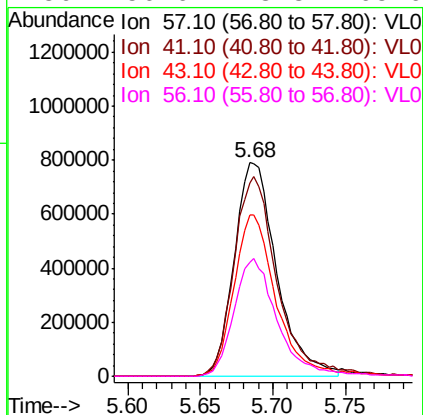
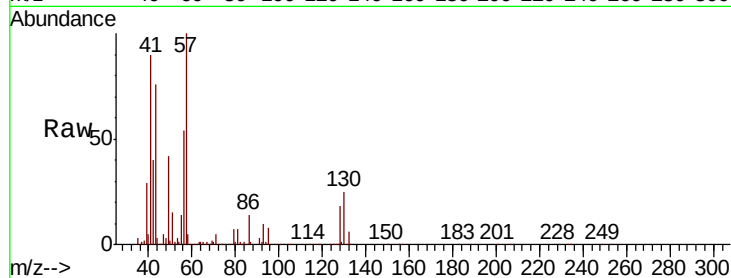
Tgt Ion:	43	Resp:	1190287
Ion	Ratio	Lower	Upper
43	100		
45	0.5	7.9	11.9#
61	0.3	7.4	11.2#
70	1.5	5.1	7.7#





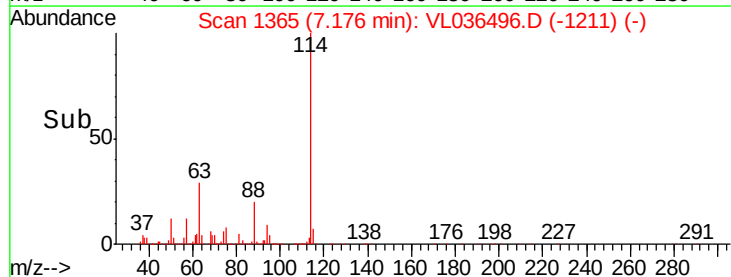
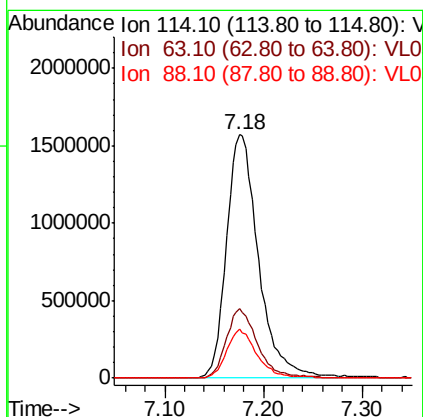
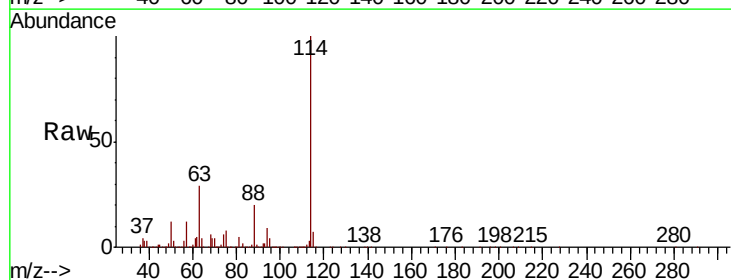
#26
Hexane
Concen: 9.514 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 21:26

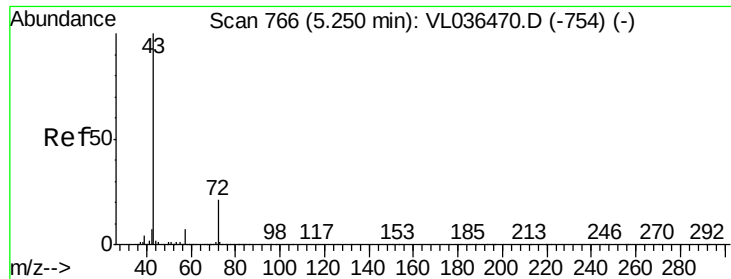
Tot Ion:	57	Resp:	1609919
Ion	Ratio	Lower	Upper
57	100		
41	97.1	77.2	115.8
43	76.1	173.8	260.6#
56	56.6	43.8	65.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T.: -0.00 min
Lab File: VL036496.D
Acq: 25 Mar 2021 21:26

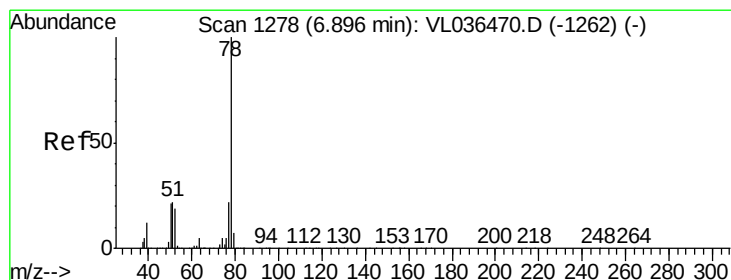
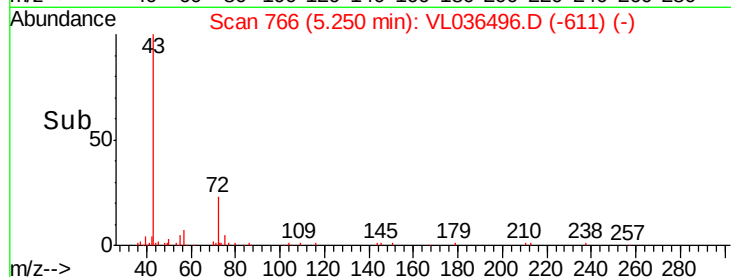
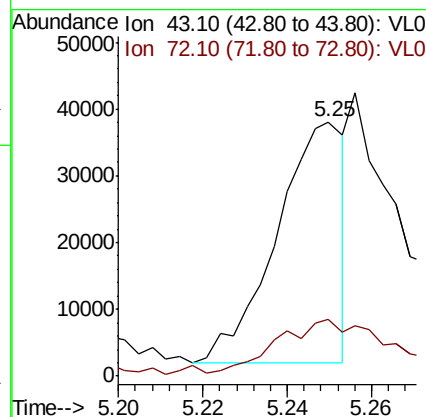
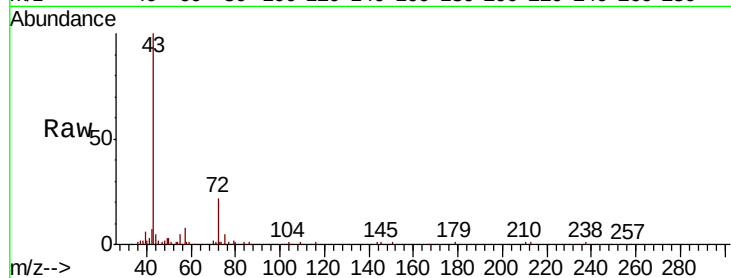
Tgt Ion:	114	Resp:	3567532
Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.4	33.6
88	19.4	15.4	23.0





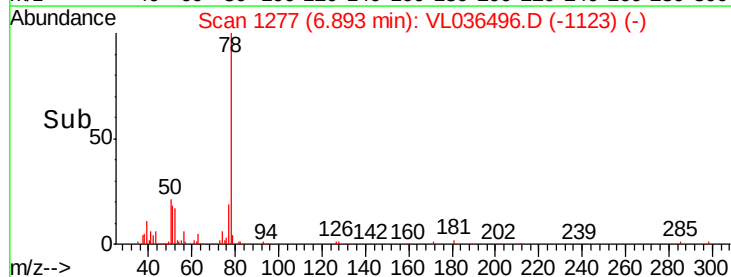
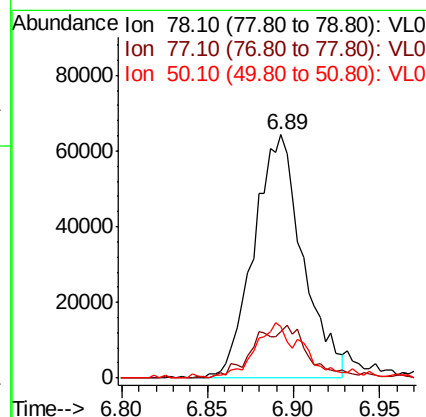
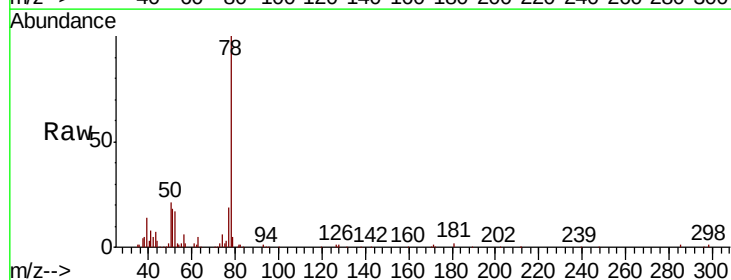
#34
 2-Butanone
 Concen: 0.232 ppbv
 RT: 5.25
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 21:26

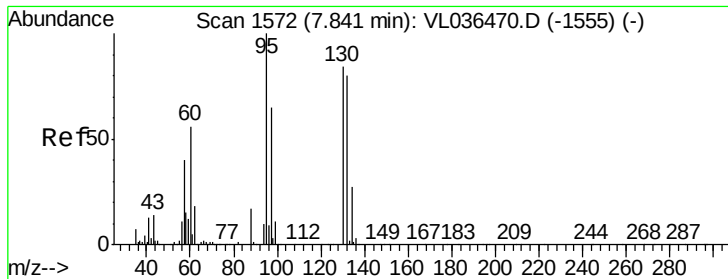
Tot Ion: 43 Resp: 40374
 Ion Ratio Lower Upper
 43 100
 72 45.1 17.0 25.6#



#36
 Benzene
 Concen: 0.386 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.00 min
 Lab File: VL036496.D
 Acq: 25 Mar 2021 21:26

Tgt Ion: 78 Resp: 127103
 Ion Ratio Lower Upper
 78 100
 77 19.0 18.0 27.0
 50 19.2 16.5 24.7





#38

Trichloroethene

Concen: 1.945 ppbv

RT: 7.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 21:26

Tot Ion:130 Resp: 249087

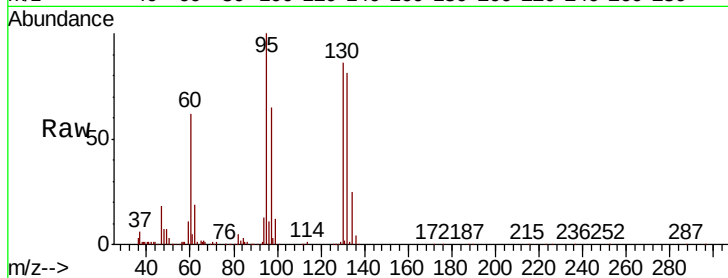
Ion Ratio Lower Upper

130 100

95 115.7 95.7 143.5

132 93.9 76.2 114.4

97 75.3 61.8 92.6

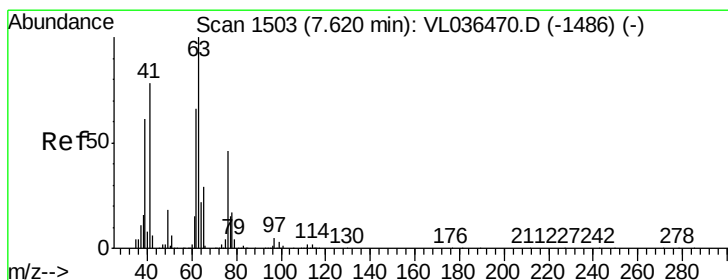
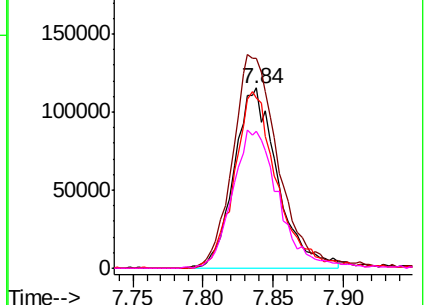
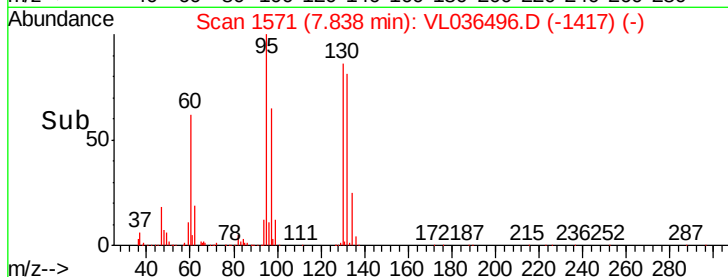


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.326 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL036496.D

Acq: 25 Mar 2021 21:26

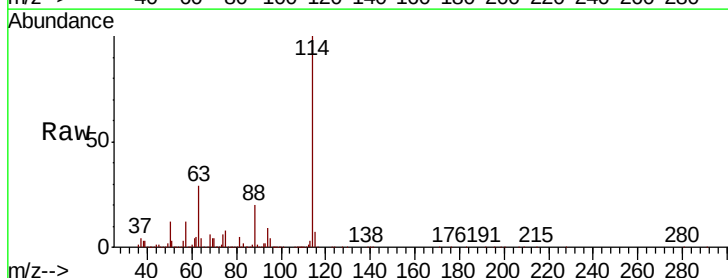
Tgt Ion: 63 Resp: 977784

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

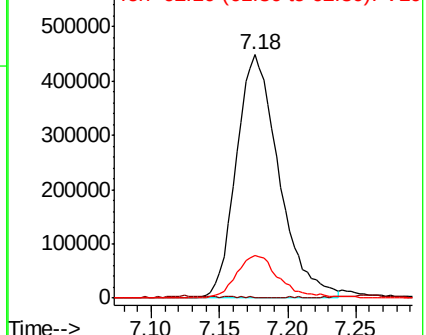
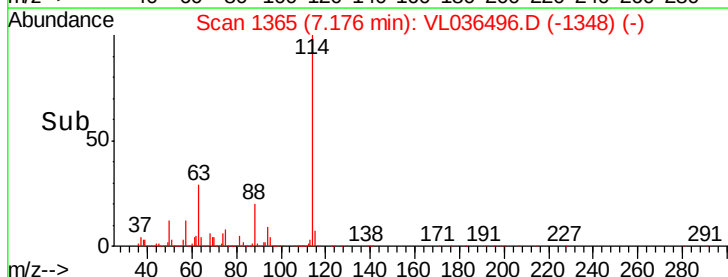
62 17.5 52.8 79.2#

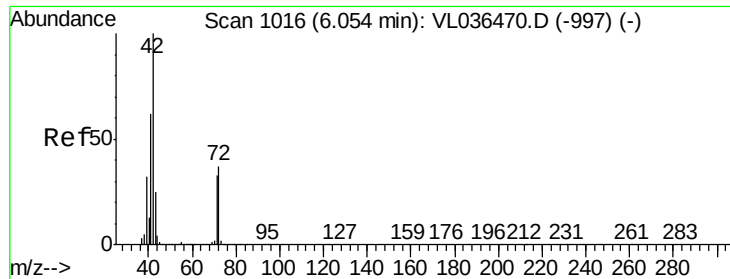


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

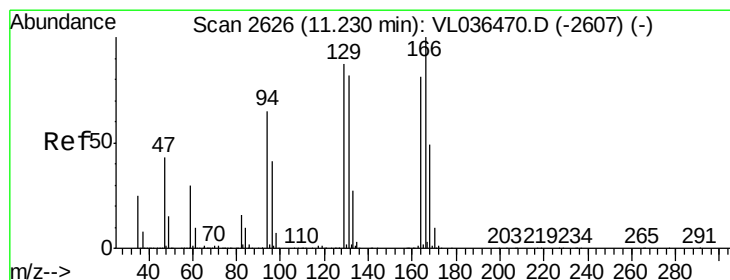
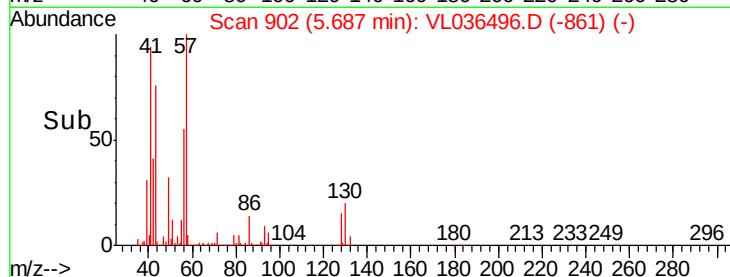
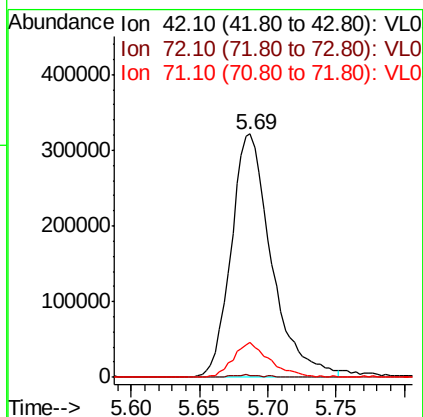
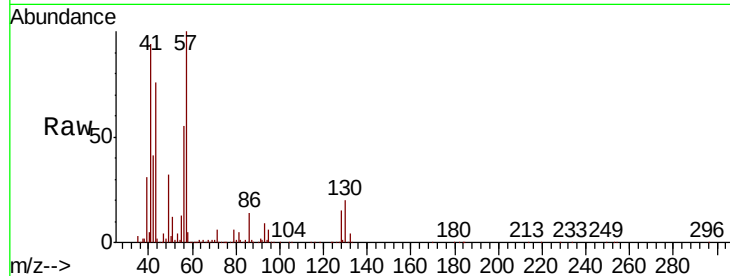
Ion 62.10 (61.80 to 62.80): VL0





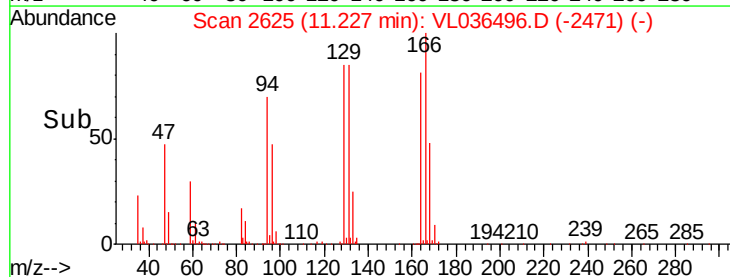
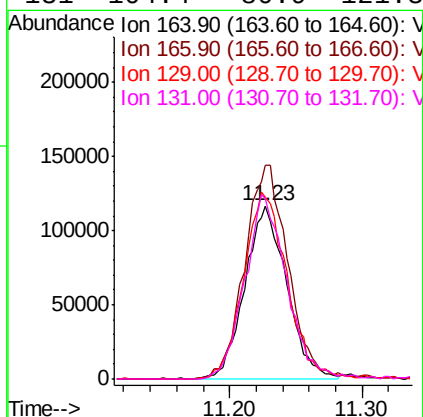
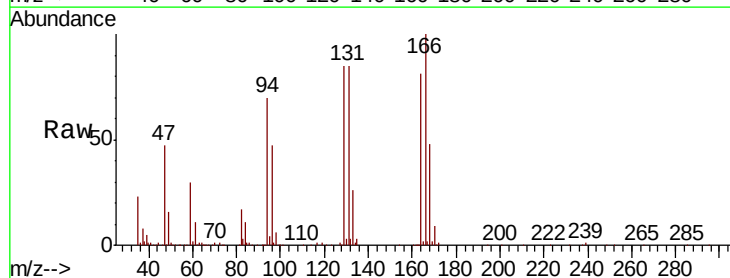
#41
Tetrahydrofuran
Concen: 8.205 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 21:26

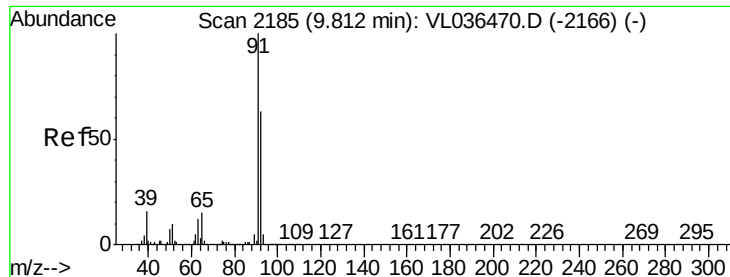
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.9	27.6	41.4#
71	13.3	27.0	40.4#



#52
Tetrachloroethene
Concen: 2.104 ppbv
RT: 11.23 min Scan# 2625
Delta R.T.: -0.00 min
Lab File: VL036496.D
Acq: 25 Mar 2021 21:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.3	98.3	147.5
129	104.7	85.8	128.8
131	104.4	80.9	121.3





#53

Toluene

Concen: 0.319 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

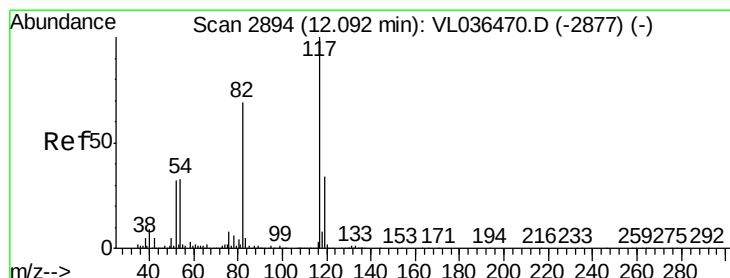
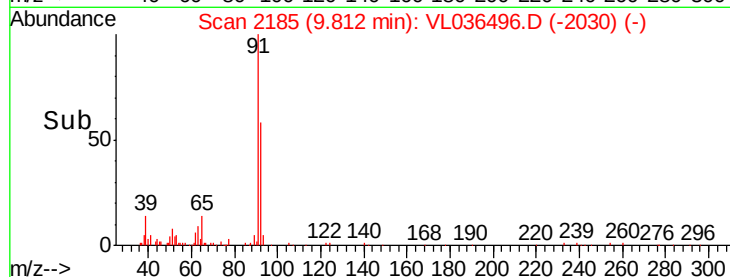
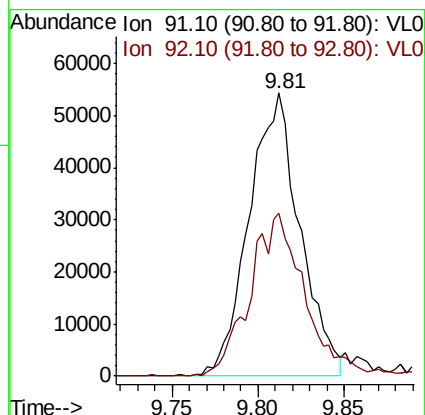
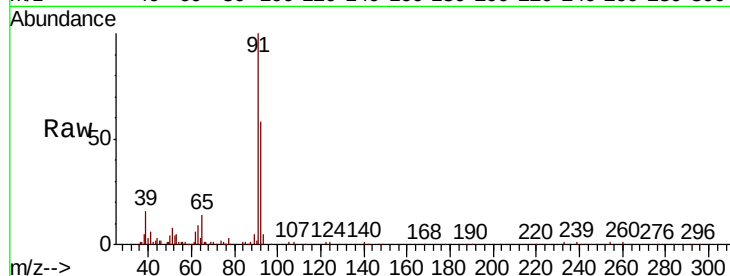
Acq: 25 Mar 2021 21:20

Tot Ion: 91 Resp: 111727

Ion Ratio Lower Upper

91 100

92 63.4 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036496.D

Acq: 25 Mar 2021 21:26

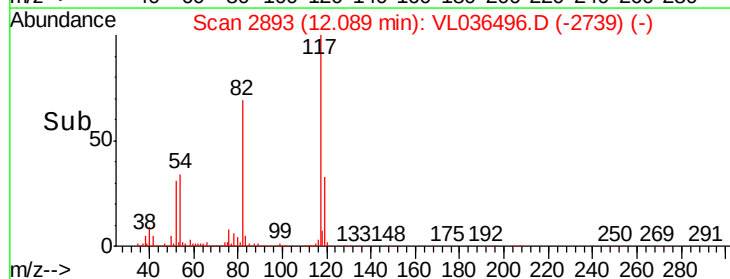
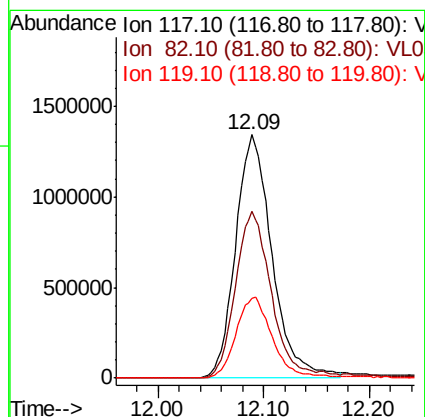
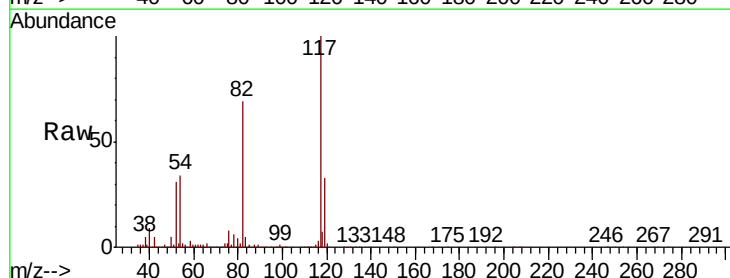
Tgt Ion: 117 Resp: 3221385

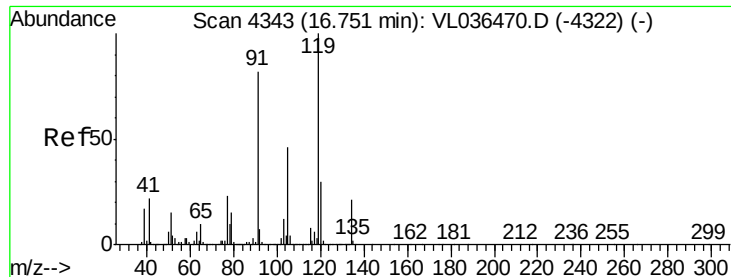
Ion Ratio Lower Upper

117 100

82 70.5 57.4 86.0

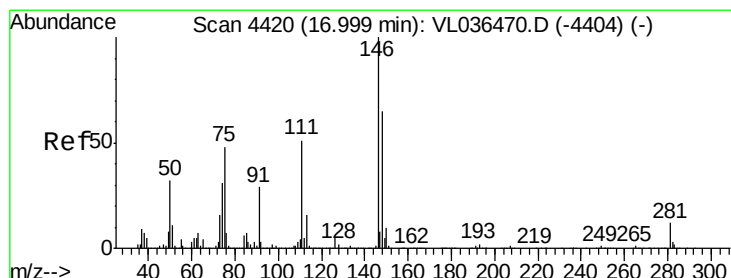
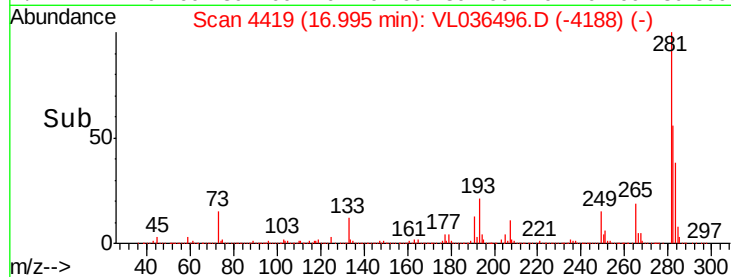
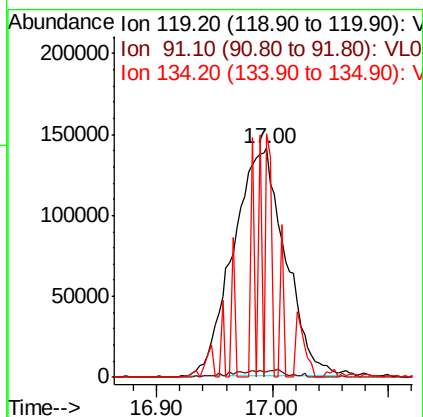
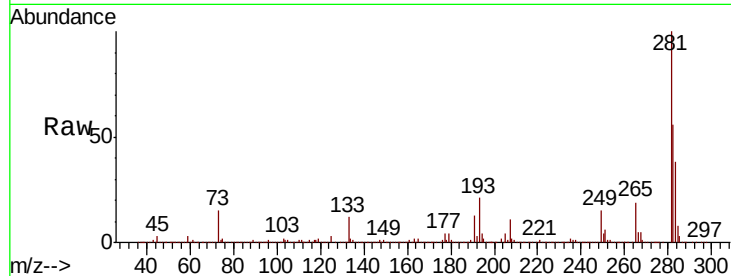
119 33.5 47.4 71.0#





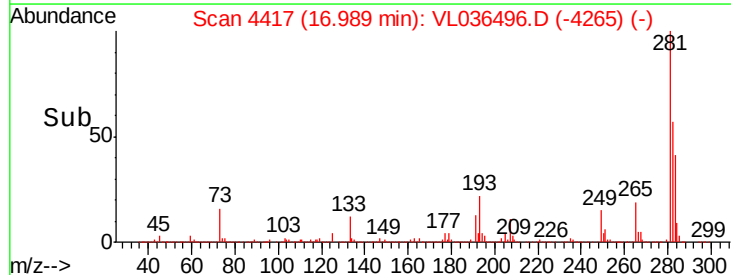
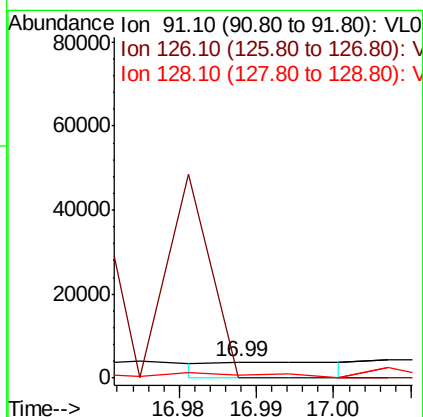
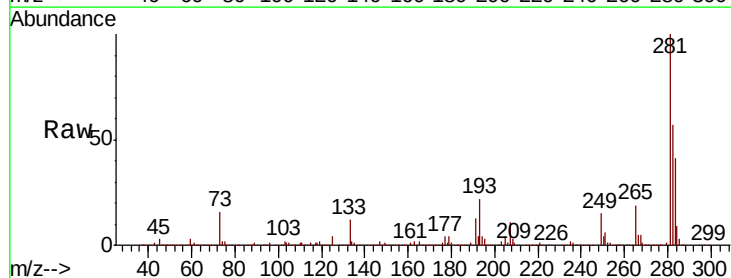
#65
 tert-Butylbenzene
 Concen: 0.950 ppbv
 RT: 17.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 21:20

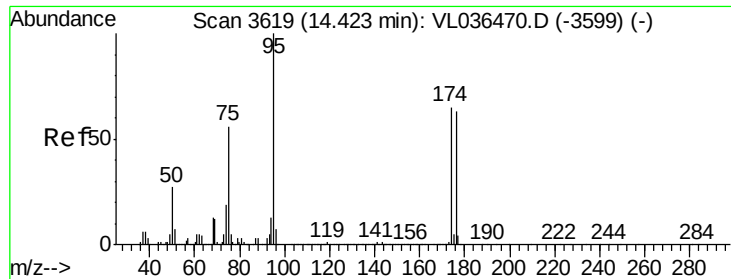
Tot Ion	Ratio	Lower	Upper
119	100		
91	3.5	67.5	101.3#
134	35.6	15.8	23.8#



#66
 Benzyl Chloride
 Concen: 0.043 ppbv
 RT: 16.99 min Scan# 4417
 Delta R.T. -0.01 min
 Lab File: VL036496.D
 Acq: 25 Mar 2021 21:26

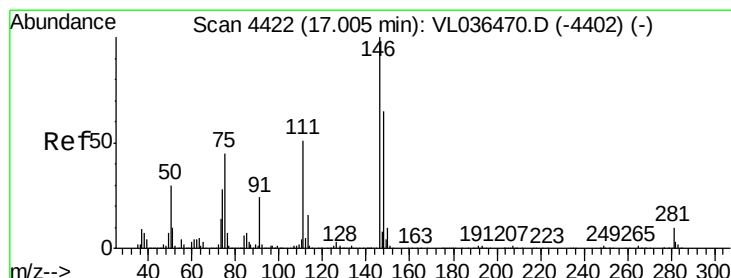
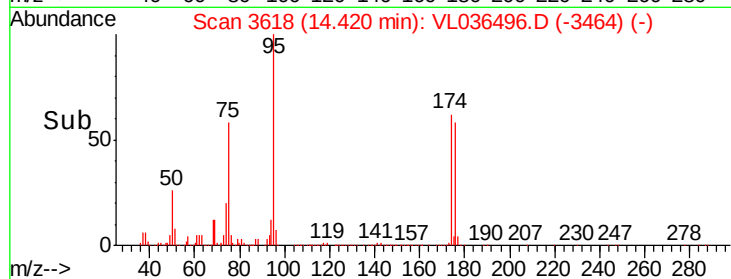
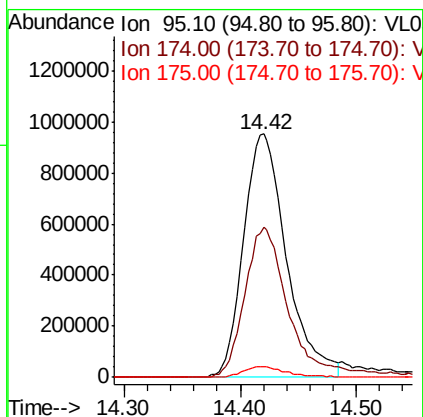
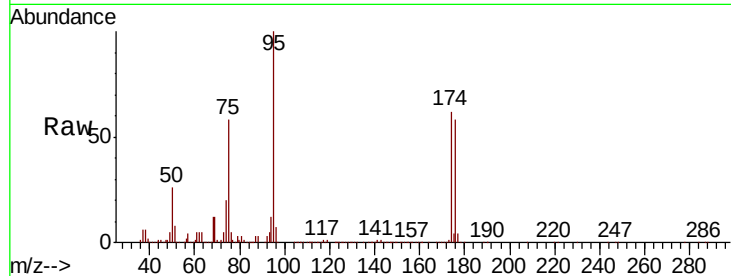
Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.5	20.3#
128	51.6	4.2	6.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.571 ppbv
 RT: 14.42 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 21:26

Tot Ion: 95 Resp: 2457403
 Ion Ratio Lower Upper
 95 100
 174 65.5 51.0 76.6
 175 4.7 3.9 5.9



#75
 1,3-Dichlorobenzene
 Concen: 0.028 ppbv
 RT: 17.00 min Scan# 4421
 Delta R.T. -0.00 min
 Lab File: VL036496.D
 Acq: 25 Mar 2021 21:26

Tgt Ion: 146 Resp: 6903
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.5 73.5#
 148 0.0 32.3 96.9#

