

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

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 26 03:53:19 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	5.67	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%

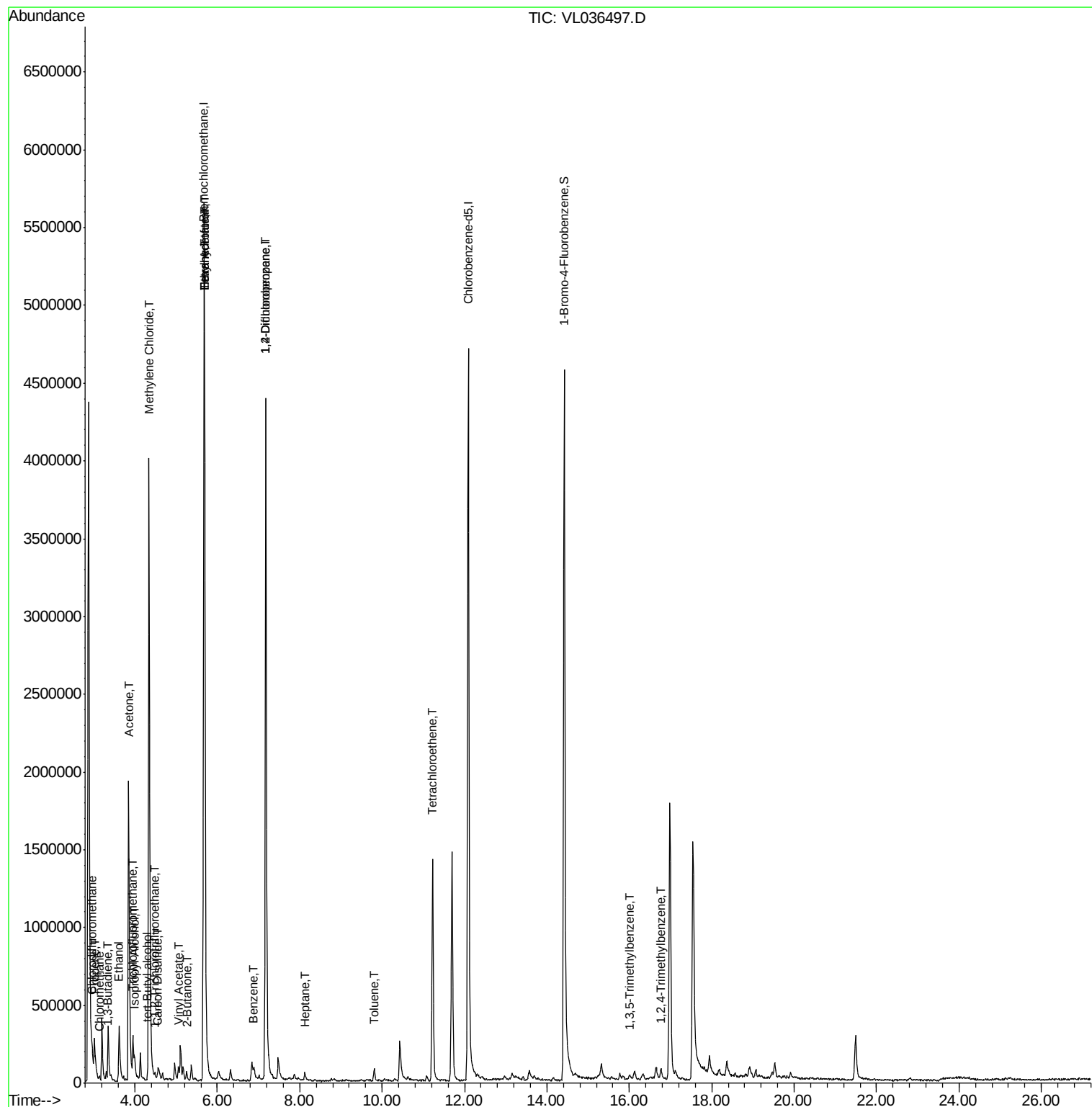
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.96	51	193002	0.664 ppbv	# 72
4) Chloromethane	3.14	50	21446	0.209 ppbv	# 86
9) Propene	3.02	41	79966	0.863 ppbv	86
10) Heptane	8.13	43	9243	0.039 ppbv	# 1
11) Trichlorofluoromethane	3.95	101	182244	0.704 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7226	0.044 ppbv	# 45
13) Ethanol	3.62	45	440318	39.887 ppbv	98
15) Acetone	3.85	43	2628381	17.158 ppbv	100
16) 1,3-Butadiene	3.33	39	5428	0.051 ppbv	93
17) tert-Butyl alcohol	4.30	59	10095	0.076 ppbv	# 72
19) Isopropyl Alcohol	3.99	45	94820	1.125 ppbv	# 1
20) Methylene Chloride	4.34	84	1611584	22.470 ppbv	92
23) Vinyl Acetate	5.07	43	8620	0.033 ppbv	# 88
25) Ethyl Acetate	5.69	43	1436601	3.945 ppbv	# 78
26) Hexane	5.69	57	2006338	11.872 ppbv	# 47
27) Carbon Disulfide	4.55	76	54748	0.329 ppbv	98
34) 2-Butanone	5.25	43	33343	0.195 ppbv	# 38
36) Benzene	6.89	78	26337	0.082 ppbv	# 90
39) 1,2-Dichloropropane	7.18	63	976660	7.461 ppbv	# 23
41) Tetrahydrofuran	5.69	42	811994	10.311 ppbv	# 54
52) Tetrachloroethene	11.22	164	349015	2.937 ppbv	97
53) Toluene	9.81	91	41419	0.121 ppbv	# 68
73) 1,3,5-Trimethylbenzene	16.01	105	17933	0.045 ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	27344	0.065 ppbv	# 59

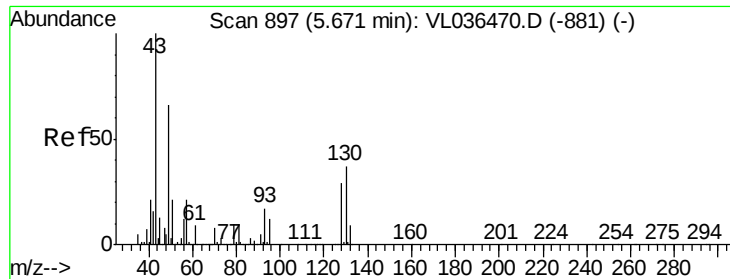
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

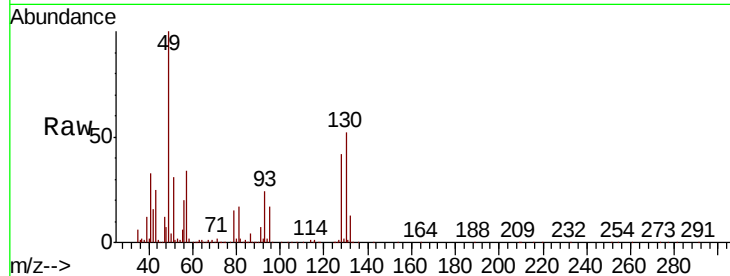
Tot Ion: 49 Resp: 1556369

Ion Ratio Lower Upper

49 100

128 43.2 23.5 70.6

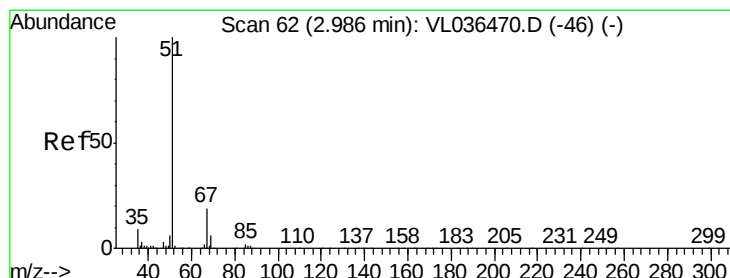
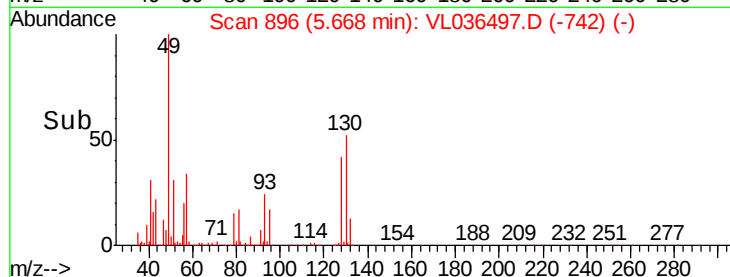
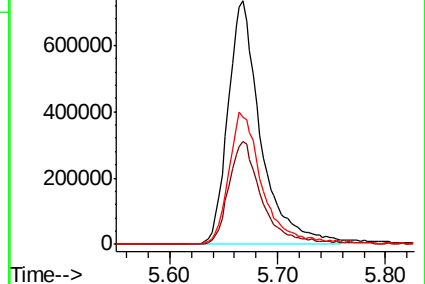
130 56.3 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.664 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036497.D

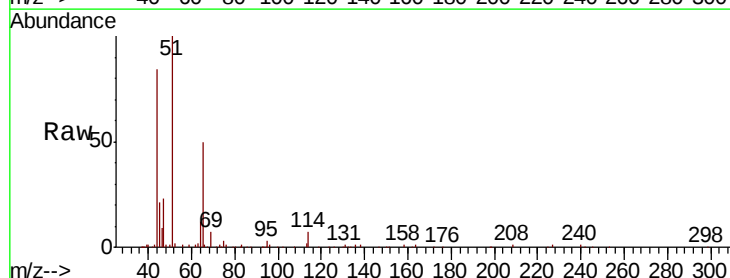
Acq: 25 Mar 2021 22:06

Tgt Ion: 51 Resp: 193002

Ion Ratio Lower Upper

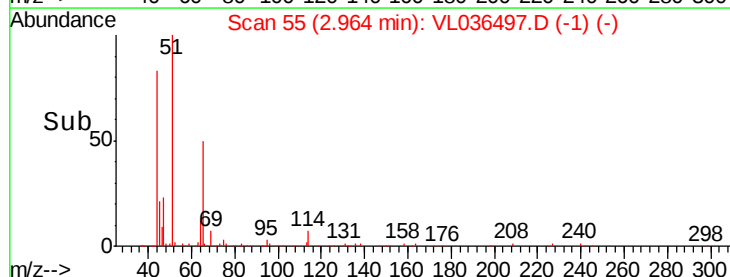
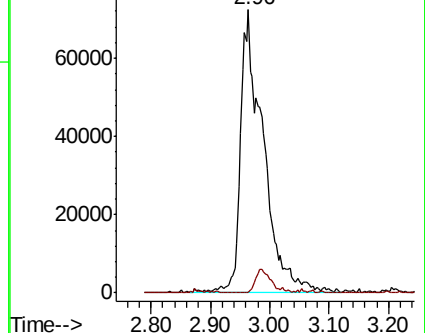
51 100

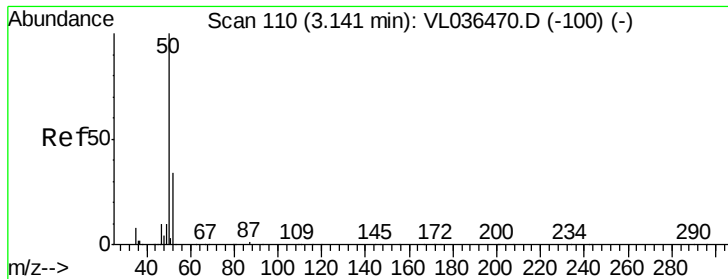
67 6.0 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.209 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

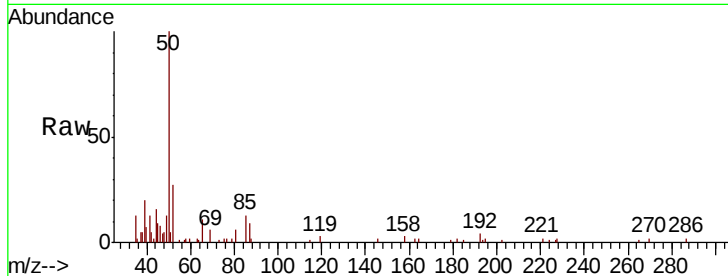
Acq: 25 Mar 2021 22:00

Tot Ion: 50 Resp: 21446

Ion Ratio Lower Upper

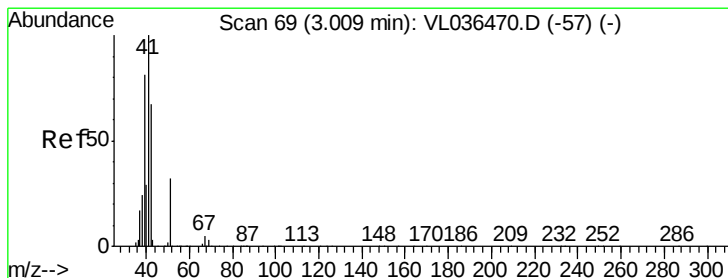
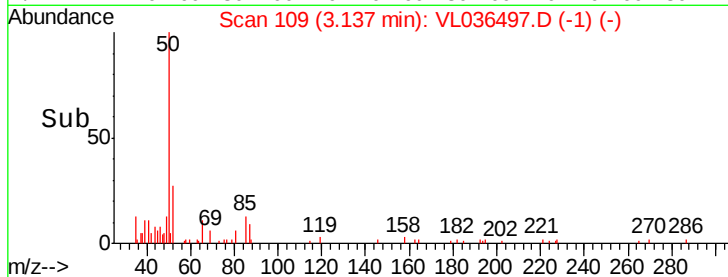
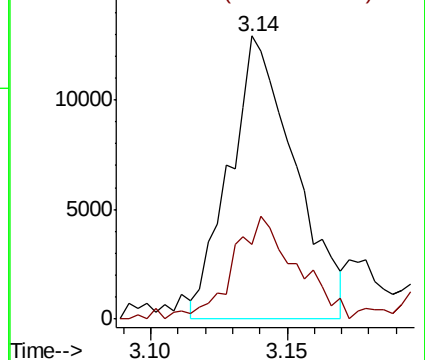
50 100

52 26.1 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.863 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036497.D

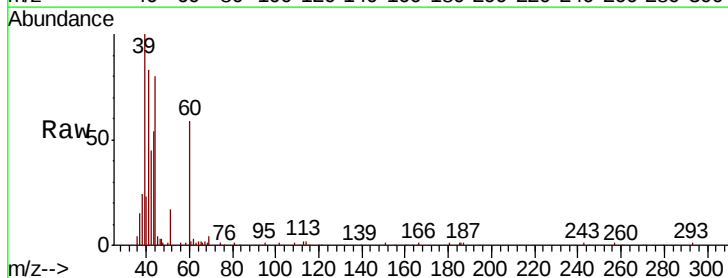
Acq: 25 Mar 2021 22:06

Tgt Ion: 41 Resp: 79966

Ion Ratio Lower Upper

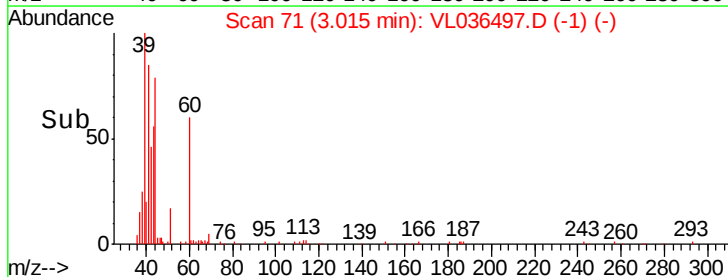
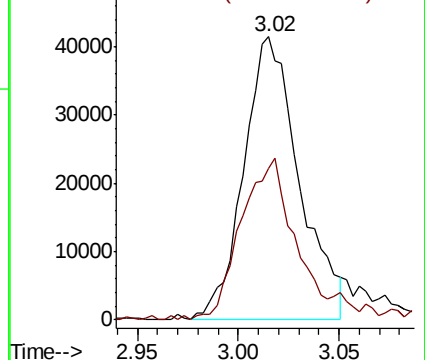
41 100

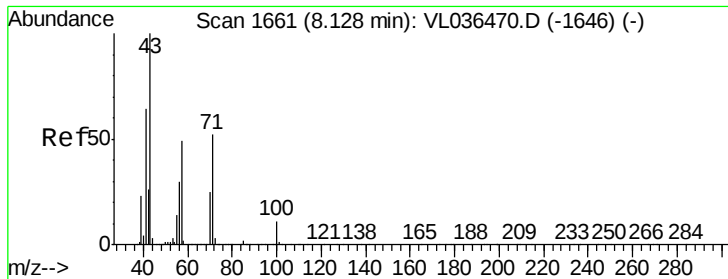
42 60.0 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

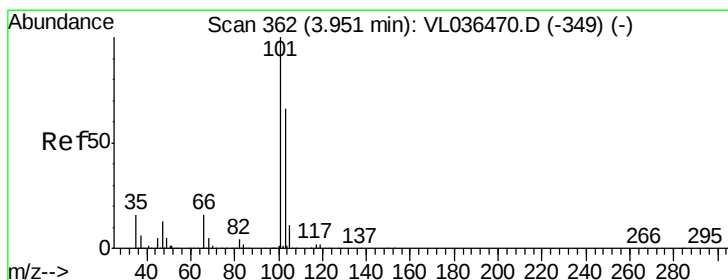
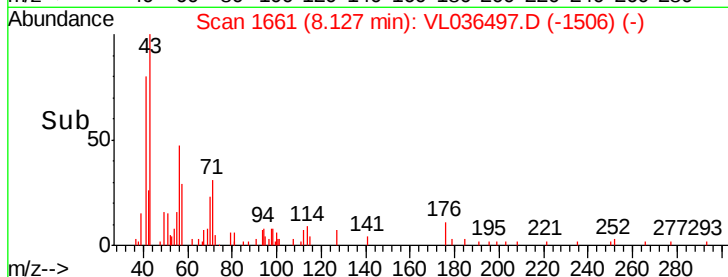
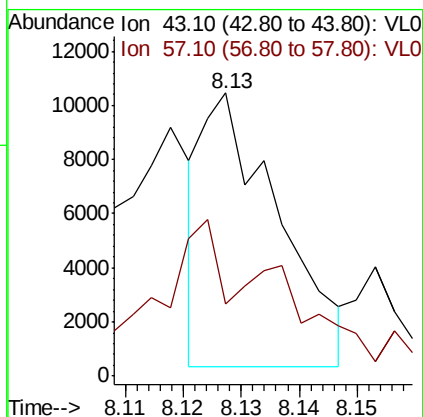
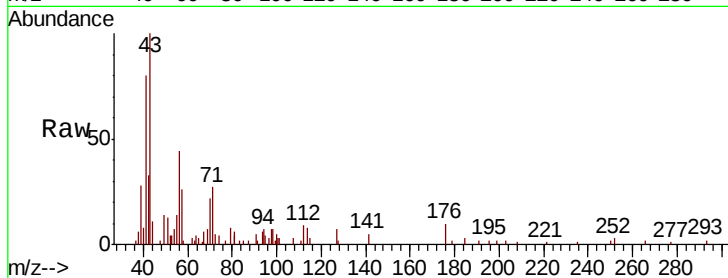
Ion 42.10 (41.80 to 42.80): VL0





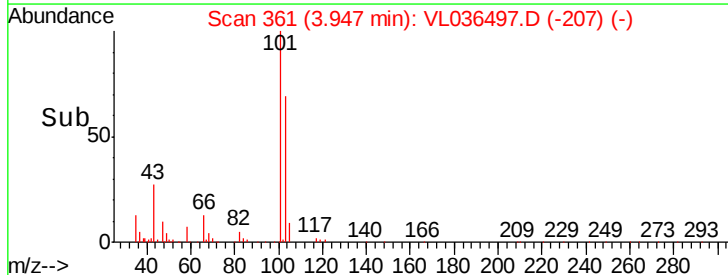
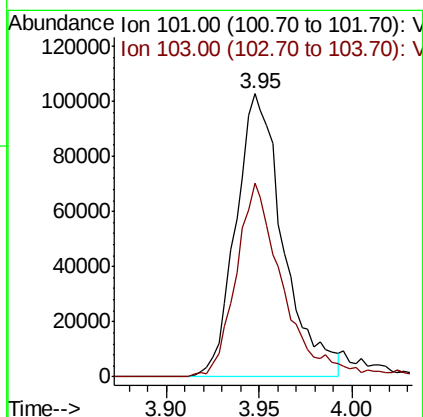
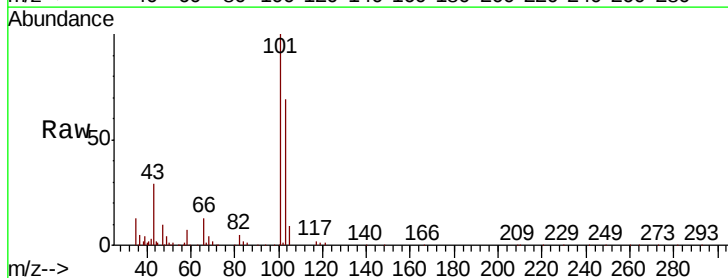
#10
 Heptane
 Concen: 0.039 ppbv
 RT: 8.13
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 22:00

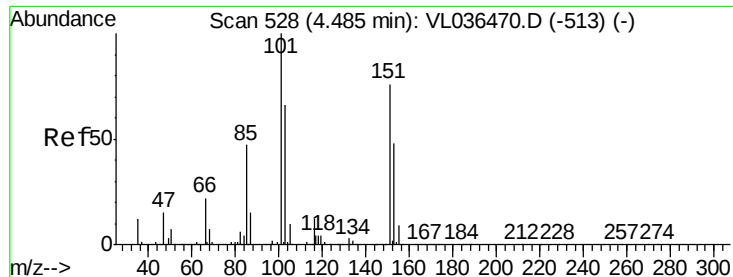
Tot Ion: 43 Resp: 9243
 Ion Ratio Lower Upper
 43 100
 57 120.3 39.0 58.6#



#11
 Trichlorofluoromethane
 Concen: 0.704 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T.: -0.00 min
 Lab File: VL036497.D
 Acq: 25 Mar 2021 22:06

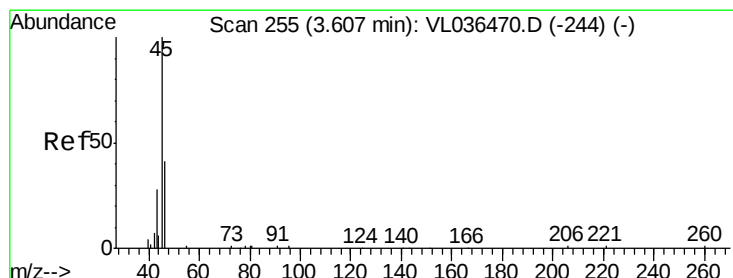
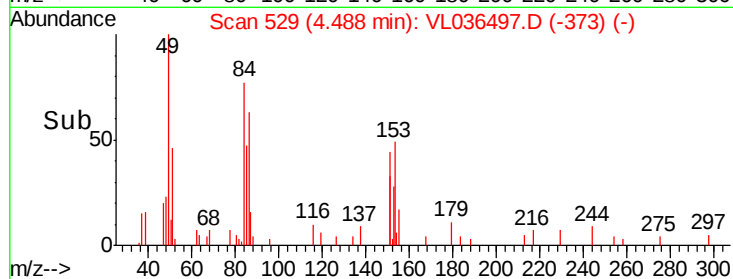
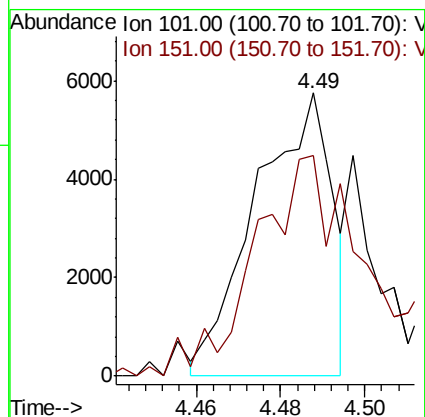
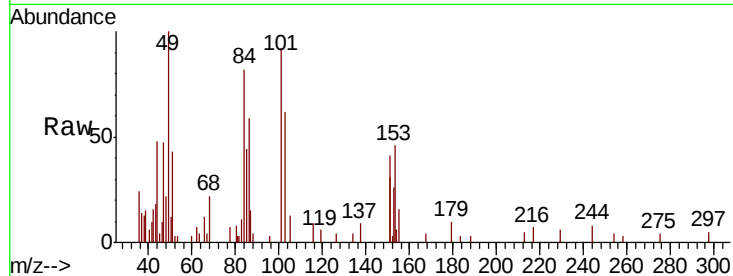
Tgt Ion: 101 Resp: 182244
 Ion Ratio Lower Upper
 101 100
 103 68.6 52.5 78.7





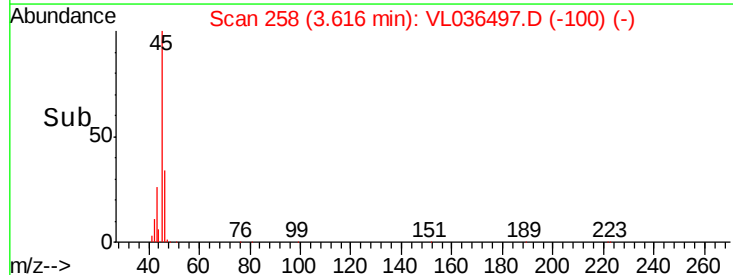
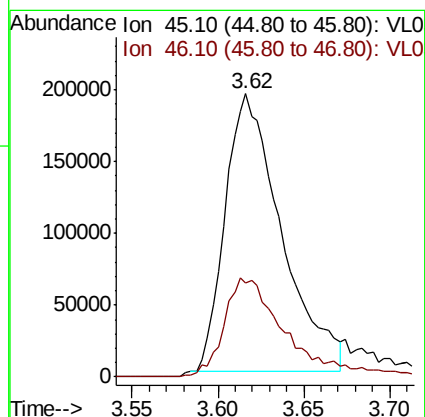
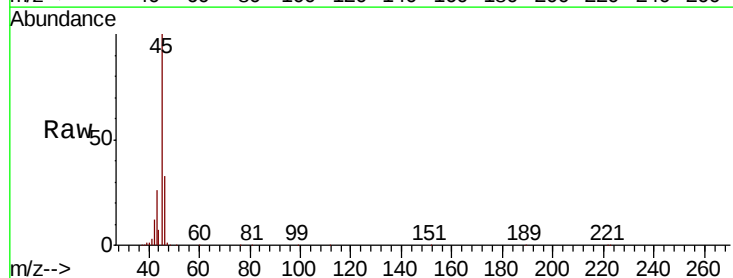
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.044 ppbv
 RT: 4.49
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 22:00

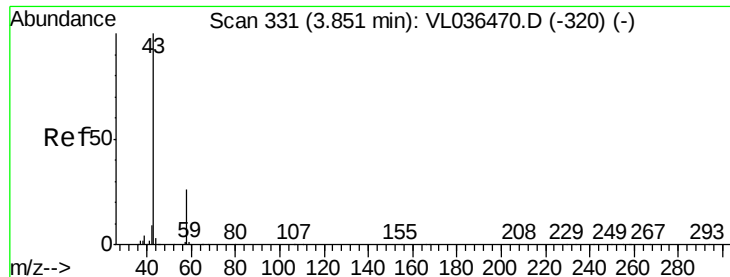
Tot Ion: 101 Resp: 7226
 Ion Ratio Lower Upper
 101 100
 151 123.7 60.9 91.3#



#13
 Ethanol
 Concen: 39.887 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T.: 0.01 min
 Lab File: VL036497.D
 Acq: 25 Mar 2021 22:06

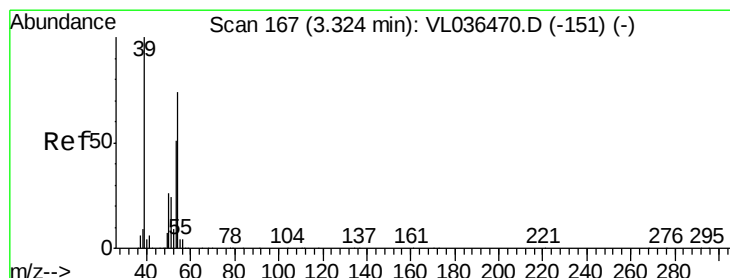
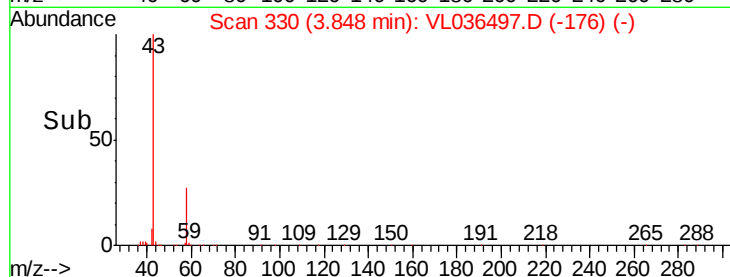
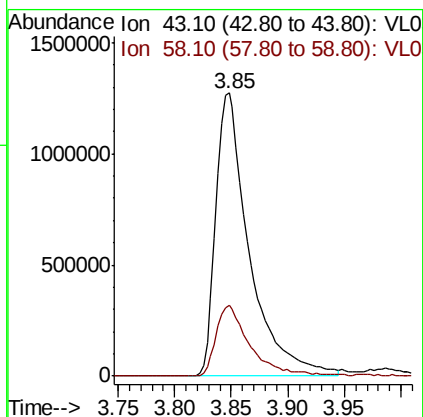
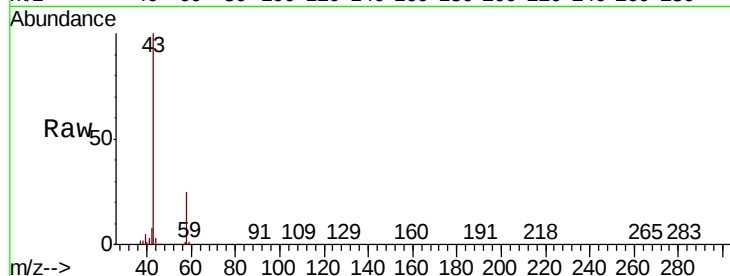
Tgt Ion: 45 Resp: 440318
 Ion Ratio Lower Upper
 45 100
 46 40.4 16.6 66.2





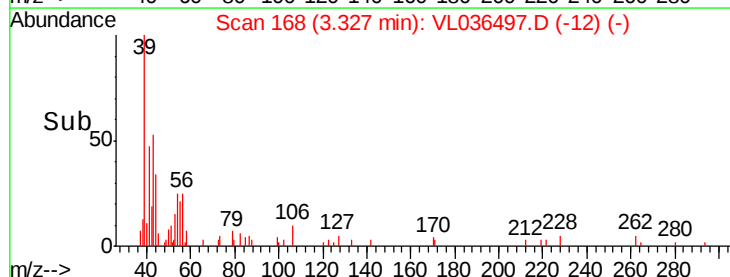
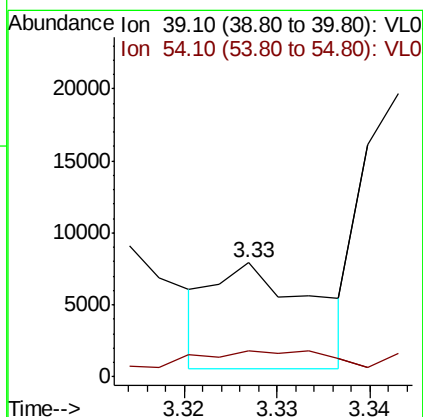
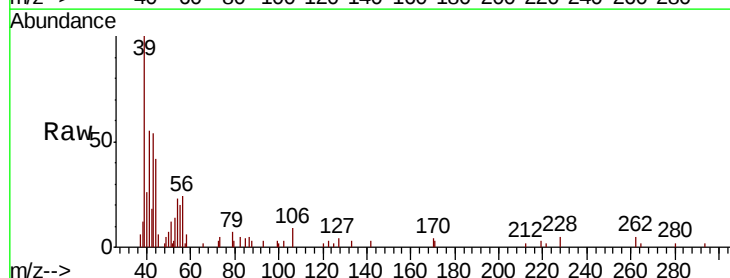
#15
Acetone
Concen: 17.158 ppbv
RT: 3.85
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 22:00

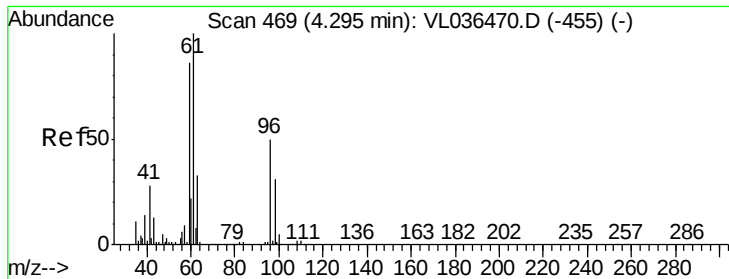
Tot Ion: 43 Resp: 2628381
Ion Ratio Lower Upper
43 100
58 26.3 21.2 31.8



#16
1,3-Butadiene
Concen: 0.051 ppbv
RT: 3.33 min Scan# 168
Delta R.T. 0.00 min
Lab File: VL036497.D
Acq: 25 Mar 2021 22:06

Tgt Ion: 39 Resp: 5428
Ion Ratio Lower Upper
39 100
54 79.0 58.8 88.2





#17

tert-Butyl alcohol

Concen: 0.076 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

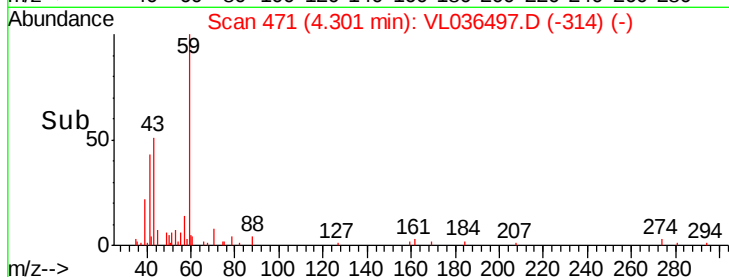
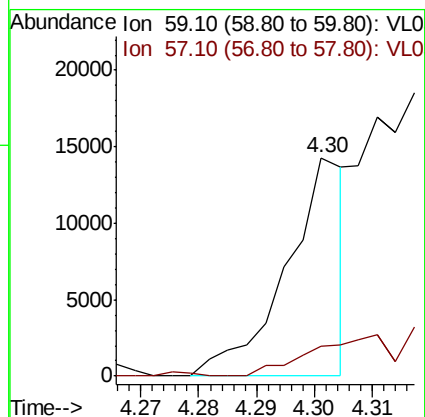
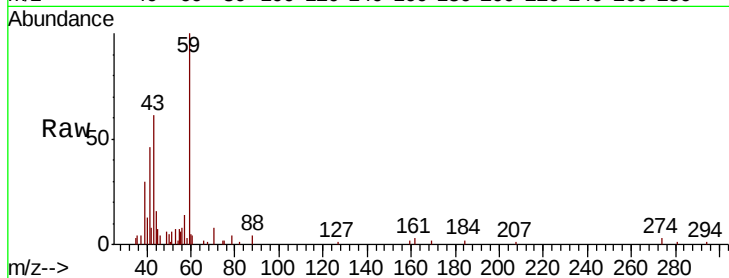
Acq: 25 Mar 2021 22:06

Tot Ion: 59 Resp: 10095

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 1.125 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036497.D

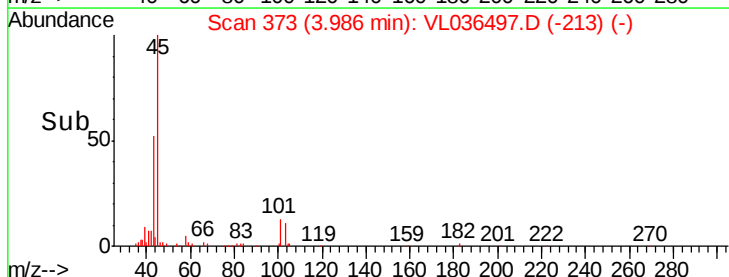
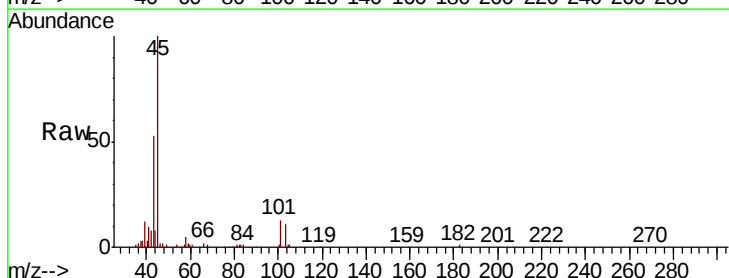
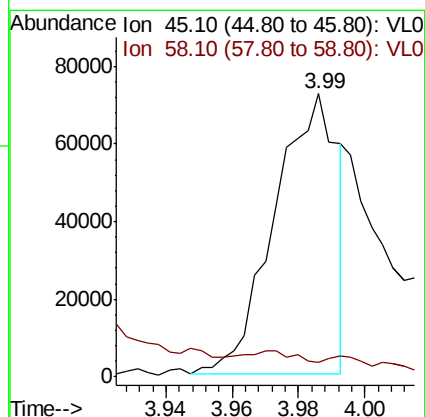
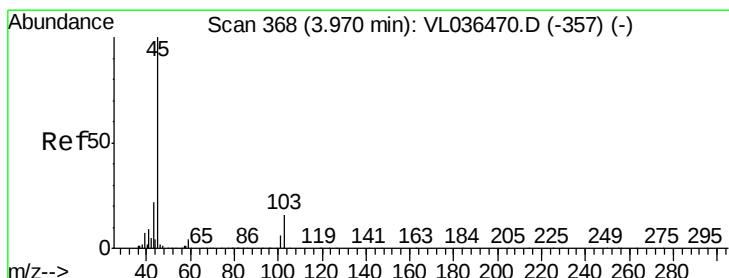
Acq: 25 Mar 2021 22:06

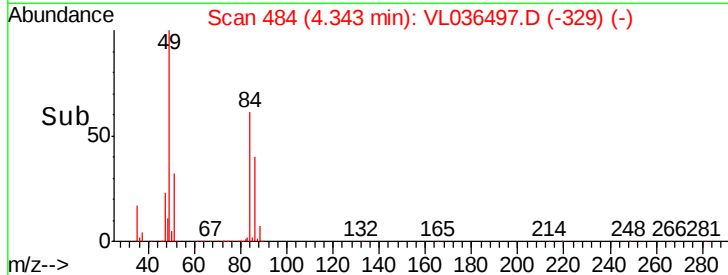
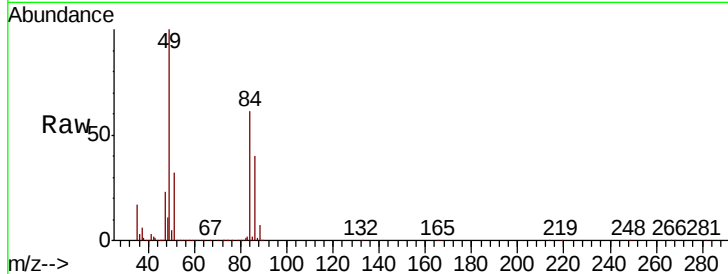
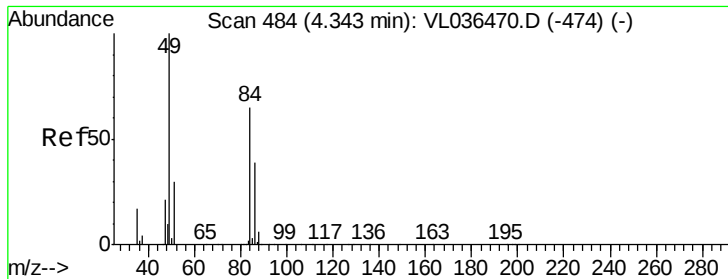
Tgt Ion: 45 Resp: 94820

Ion Ratio Lower Upper

45 100

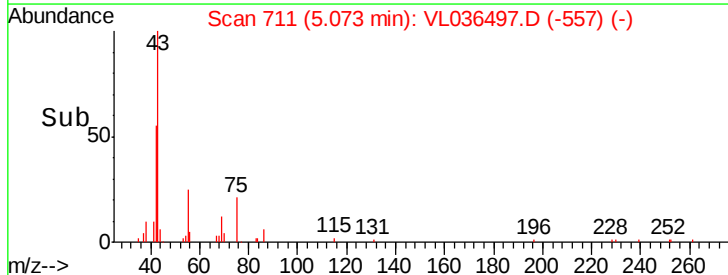
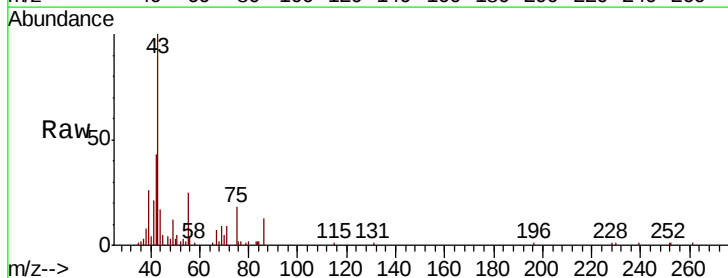
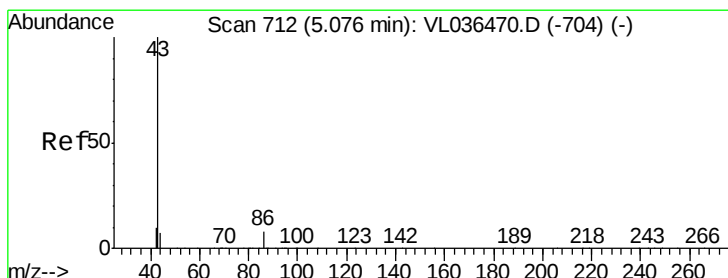
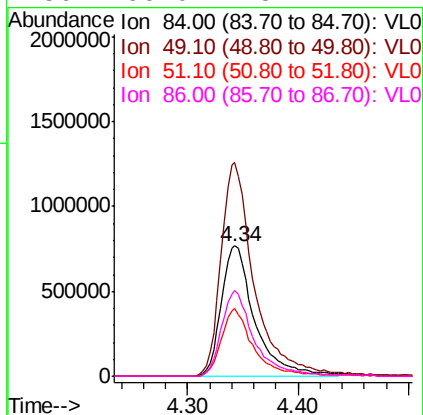
58 710.6 2.9 4.3#





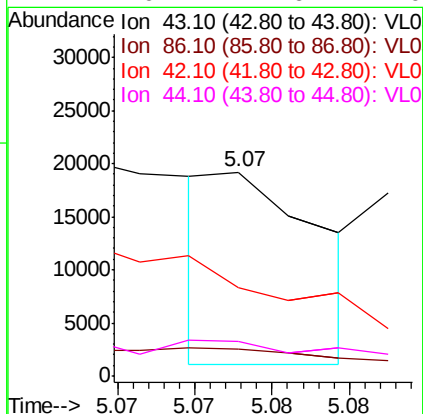
#20
Methvlene Chloride
Concen: 22.470 ppbv
RT: 4.34
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Mar 2021 22:00

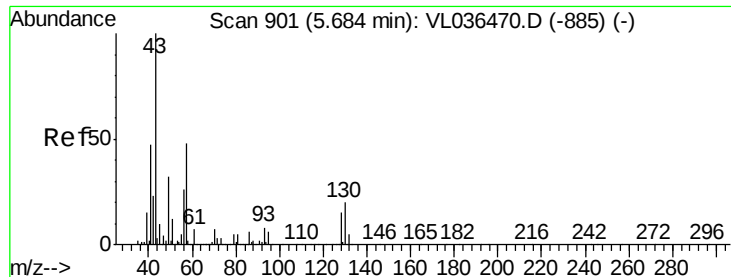
Tot Ion:	84	Resp:	1611584
Ion	Ratio	Lower	Upper
84	100		
49	164.2	122.9	184.3
51	52.1	36.9	55.3
86	66.0	48.2	72.4



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 5.07 min Scan# 711
Delta R.T.: -0.00 min
Lab File: VL036497.D
Acq: 25 Mar 2021 22:06

Tgt Ion:	43	Resp:	8620
Ion	Ratio	Lower	Upper
43	100		
86	15.9	5.4	8.0#
42	10.0	8.5	12.7
44	10.4	4.6	7.0#

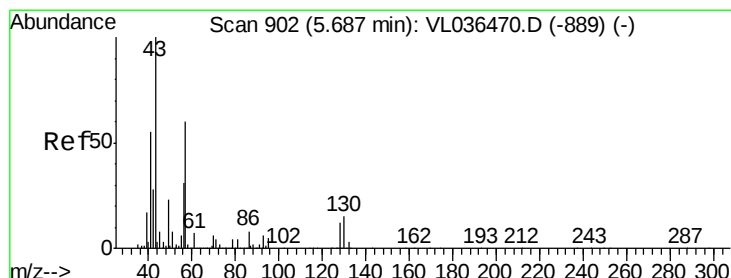
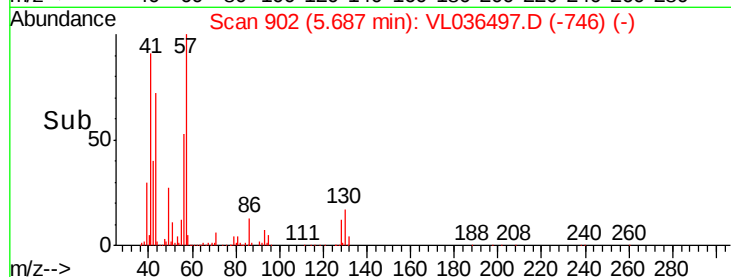
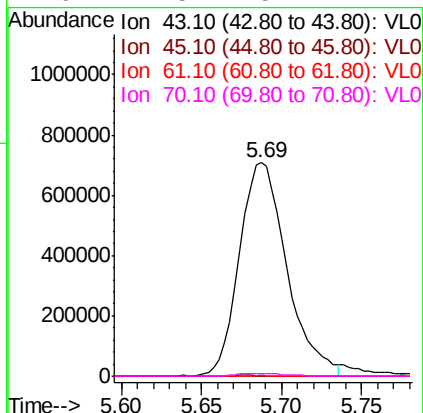
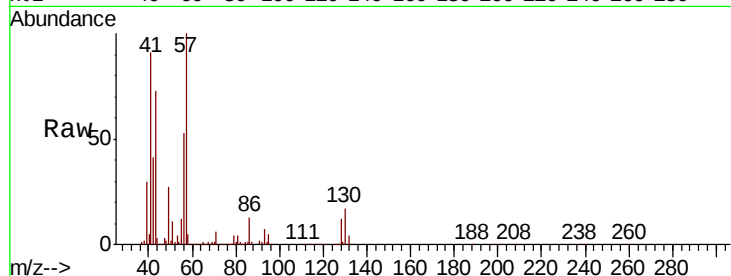




#25
Ethyl Acetate
Concen: 3.945 ppbv
RT: 5.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Mar 2021 22:00

Tot Ion: 43 Resp: 1436601

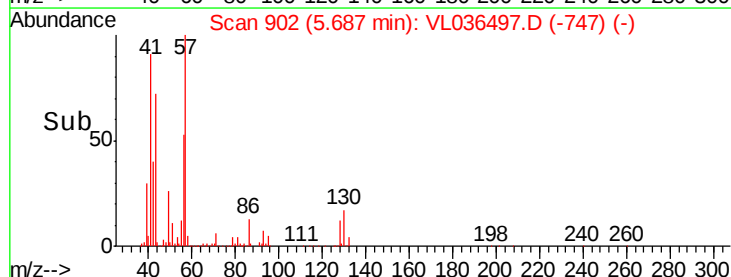
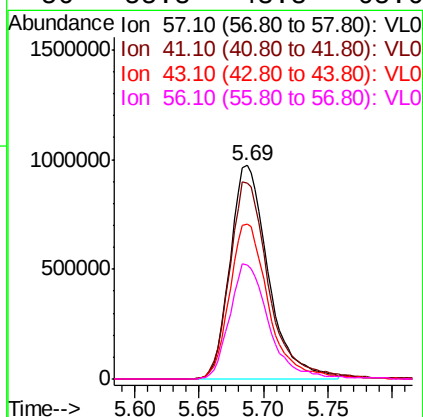
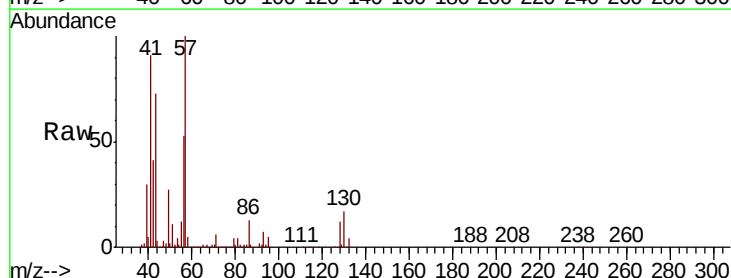
Ion	Ratio	Lower	Upper
43	100		
45	0.5	7.9	11.9#
61	0.3	7.4	11.2#
70	1.5	5.1	7.7#

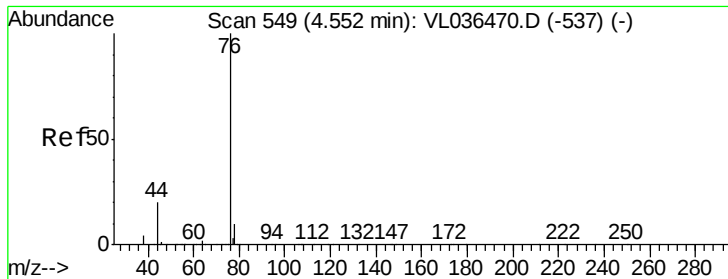


#26
Hexane
Concen: 11.872 ppbv
RT: 5.69 min Scan# 902
Delta R.T.: -0.00 min
Lab File: VL036497.D
Acq: 25 Mar 2021 22:06

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:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:00

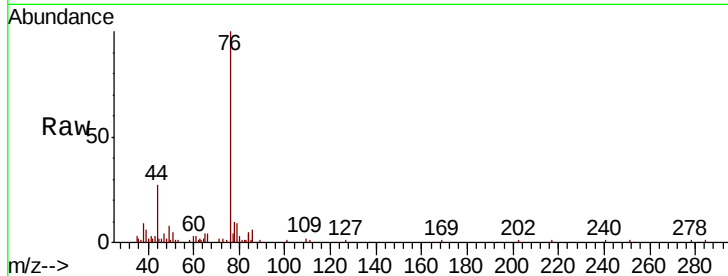
Tot Ion: 76 Resp: 54748

Ion Ratio Lower Upper

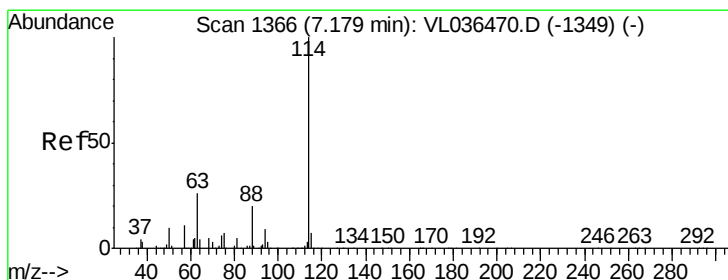
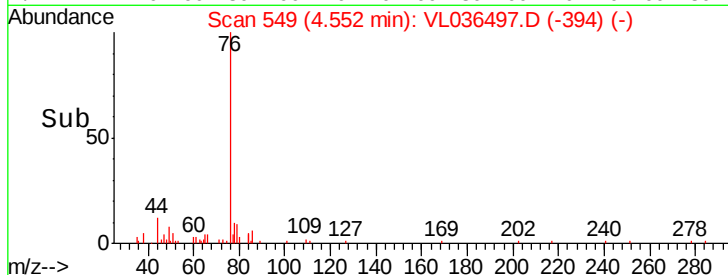
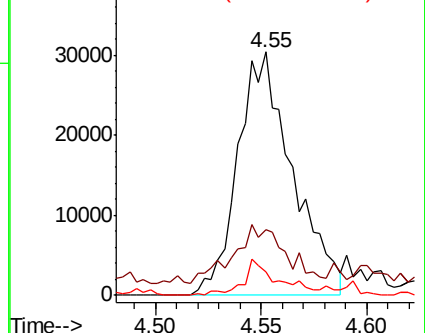
76 100

44 22.9 17.5 26.3

78 11.7 8.6 13.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#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

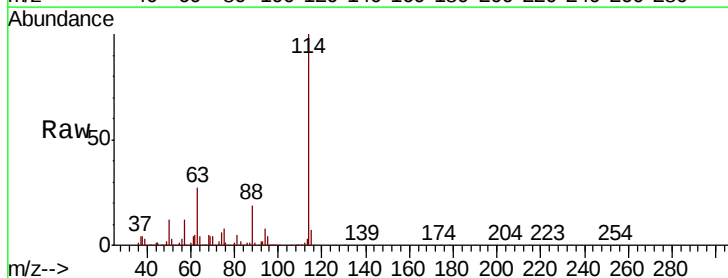
Tgt Ion: 114 Resp: 3499061

Ion Ratio Lower Upper

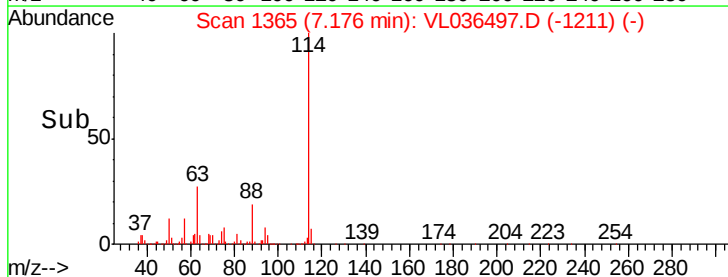
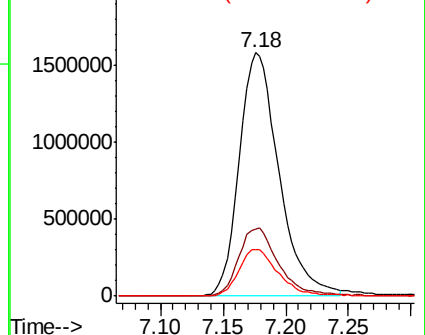
114 100

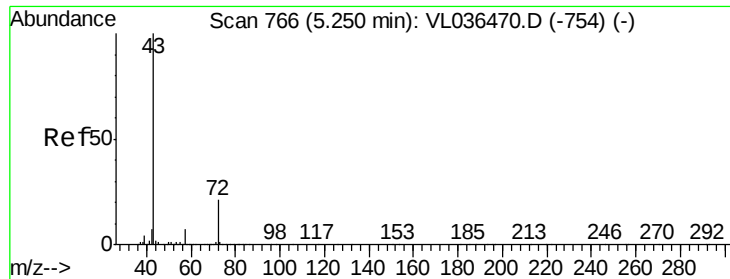
63 28.6 22.4 33.6

88 19.4 15.4 23.0



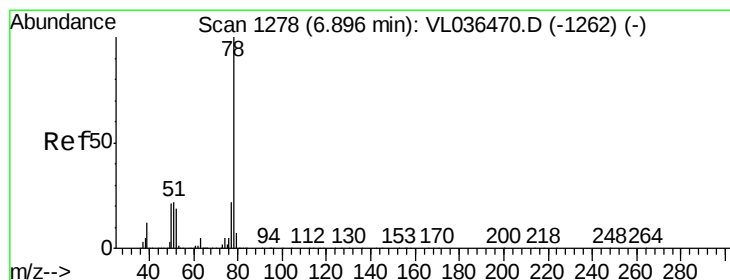
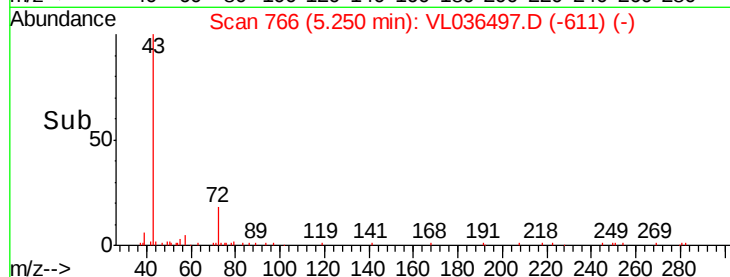
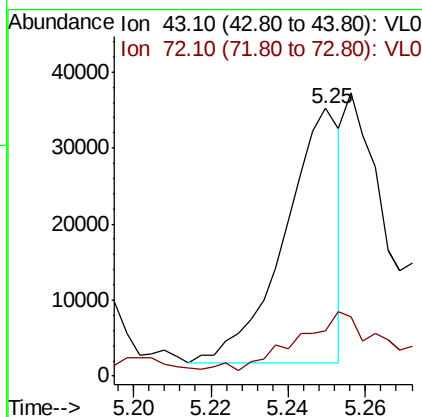
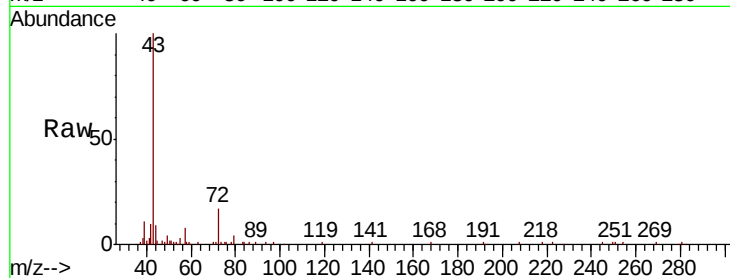
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





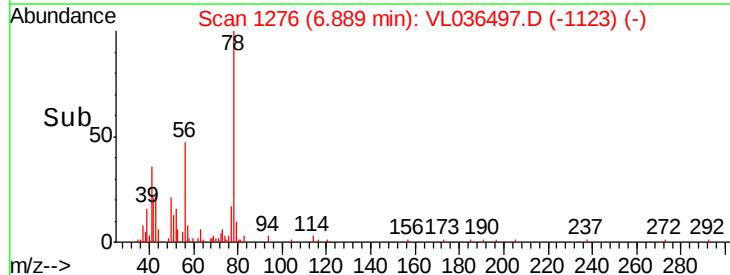
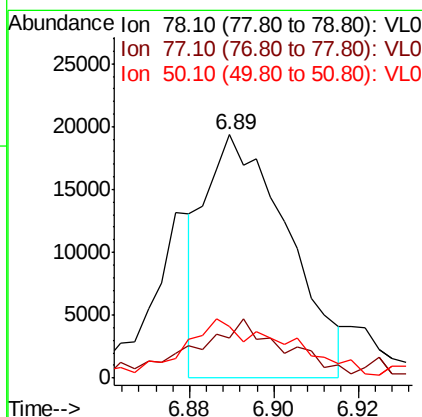
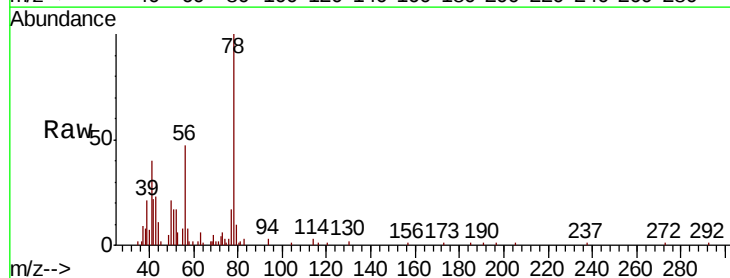
#34
2-Butanone
Concen: 0.195 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 22:00

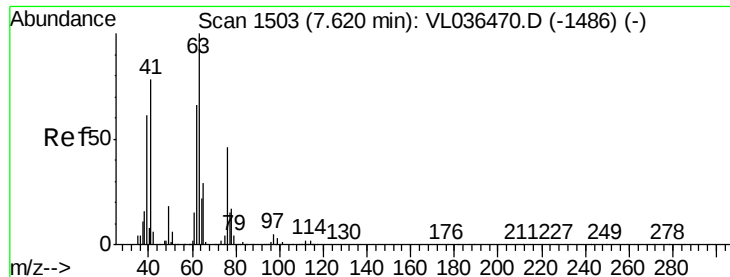
Tot Ion: 43 Resp: 33343
Ion Ratio Lower Upper
43 100
72 50.3 17.0 25.6#



#36
Benzene
Concen: 0.082 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL036497.D
Acq: 25 Mar 2021 22:06

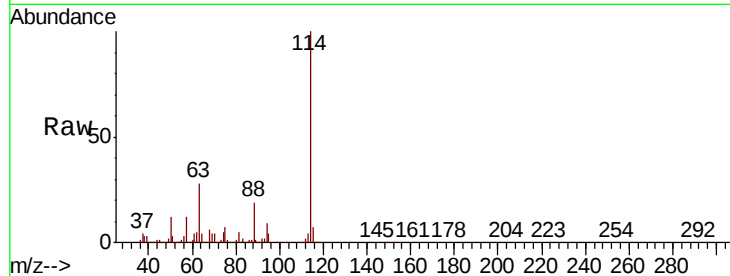
Tgt Ion: 78 Resp: 26337
Ion Ratio Lower Upper
78 100
77 14.1 18.0 27.0#
50 19.4 16.5 24.7



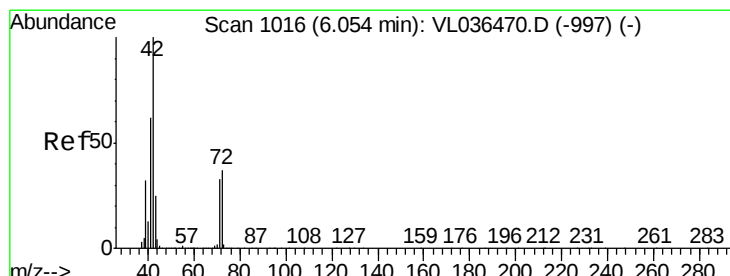
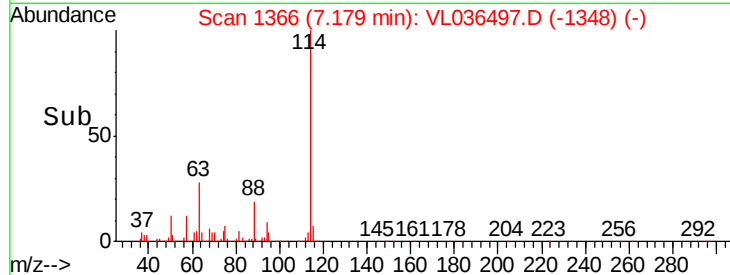
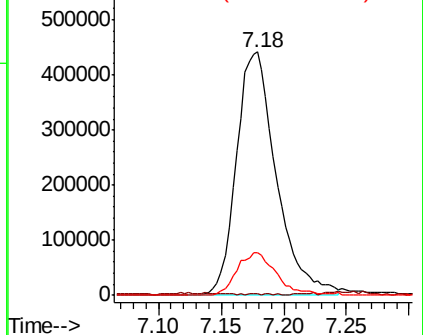


#39
 1,2-Dichloropropane
 Concen: 7.461 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 22:06

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	17.4	52.8	79.2#

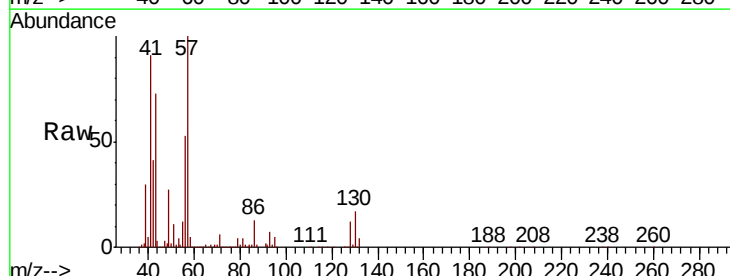


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

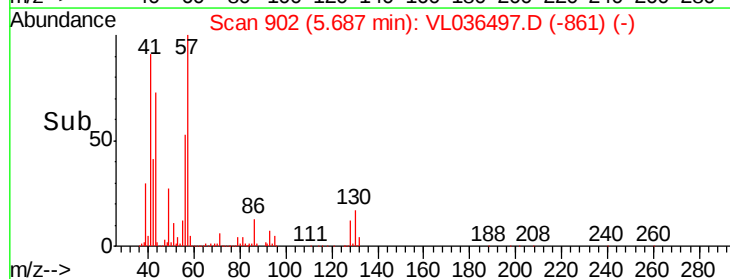
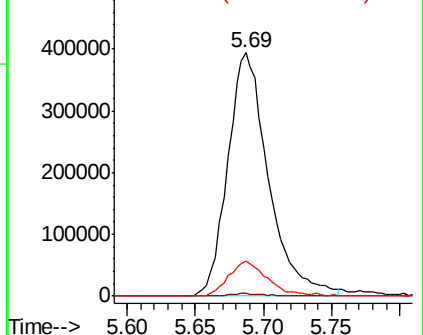


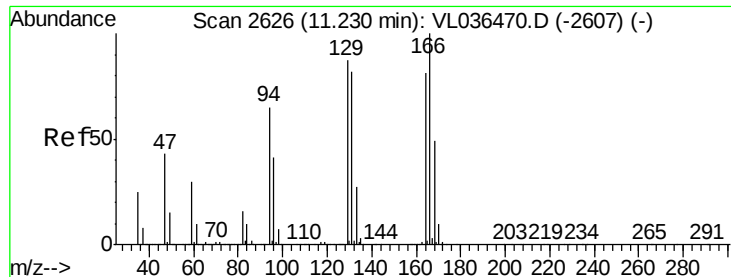
#41
 Tetrahydrofuran
 Concen: 10.311 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. -0.37 min
 Lab File: VL036497.D
 Acq: 25 Mar 2021 22:06

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.9	27.6	41.4#
71	14.3	27.0	40.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0





#52

Tetrachloroethene

Concen: 2.937 ppbv

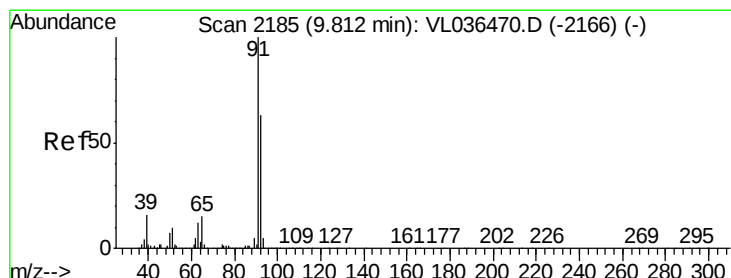
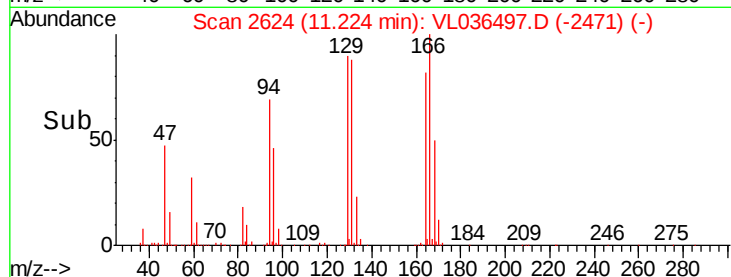
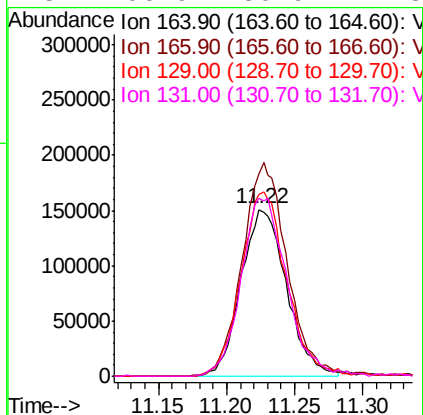
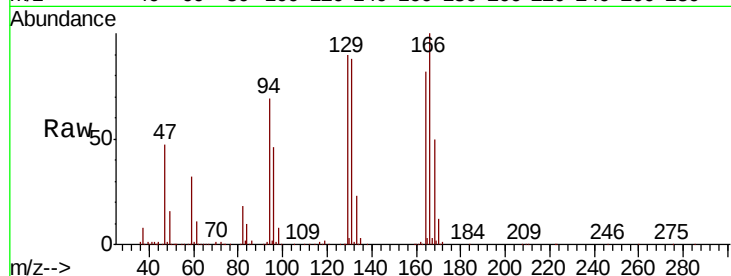
RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 22:00

Tot 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: 0.121 ppbv

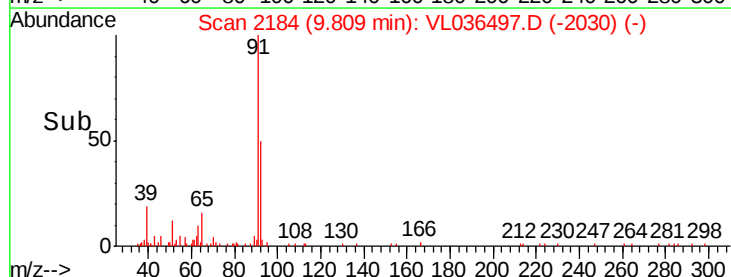
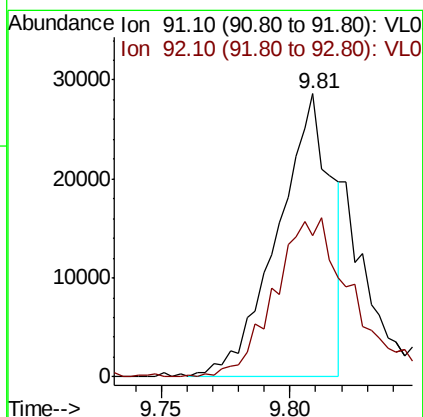
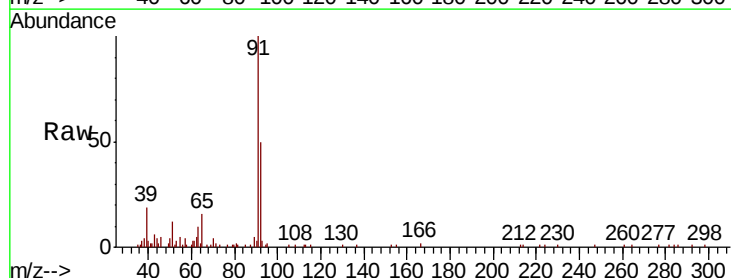
RT: 9.81 min Scan# 2184

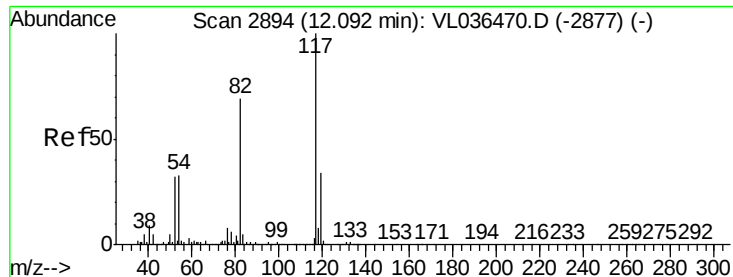
Delta R.T. -0.00 min

Lab File: VL036497.D

Acq: 25 Mar 2021 22:06

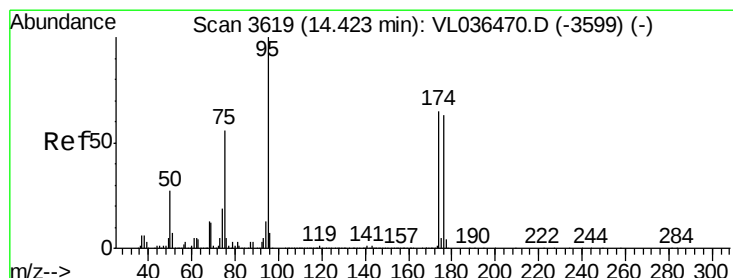
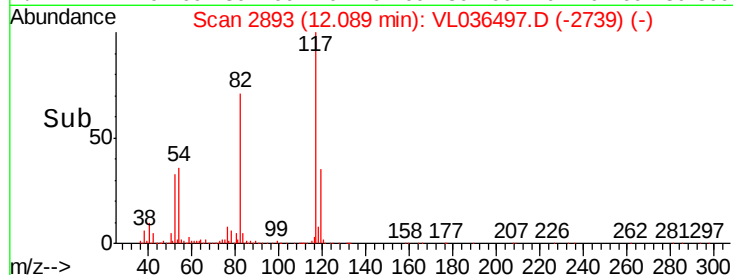
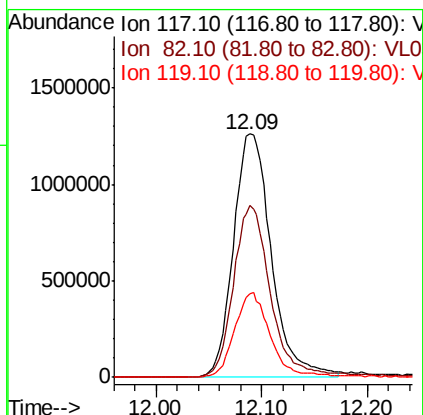
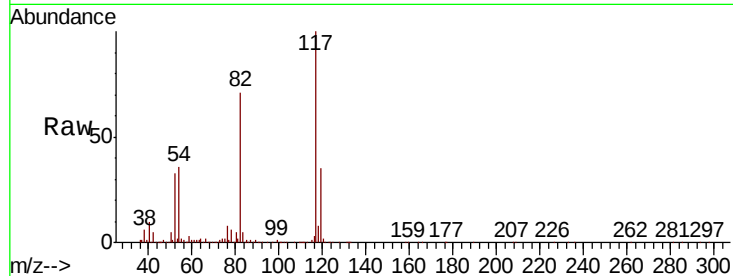
Tgt Ion:	91	Resp:	41419
Ion	Ratio	Lower	Upper
91	100		
92	85.2	48.8	73.2#





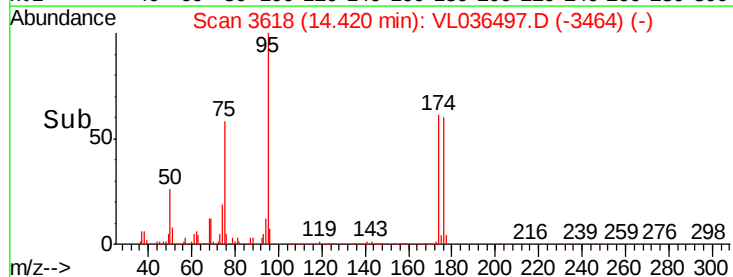
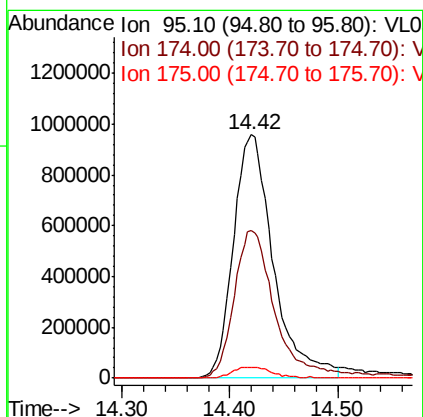
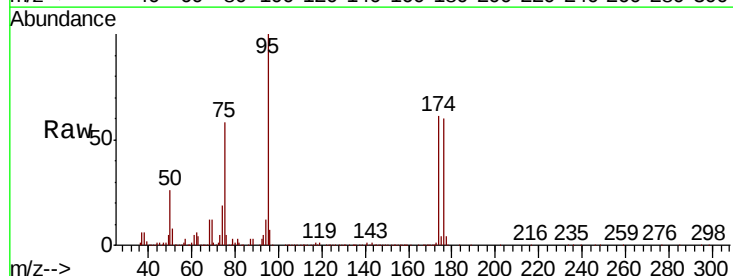
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 22:00

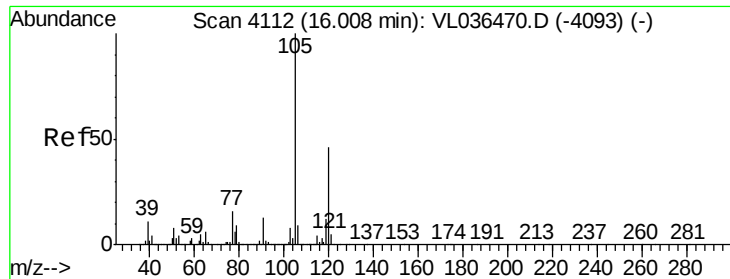
Tot Ion: 117 Resp: 3155798
 Ion Ratio Lower Upper
 117 100
 82 70.8 57.4 86.0
 119 33.5 47.4 71.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.827 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T.: -0.00 min
 Lab File: VL036497.D
 Acq: 25 Mar 2021 22:06

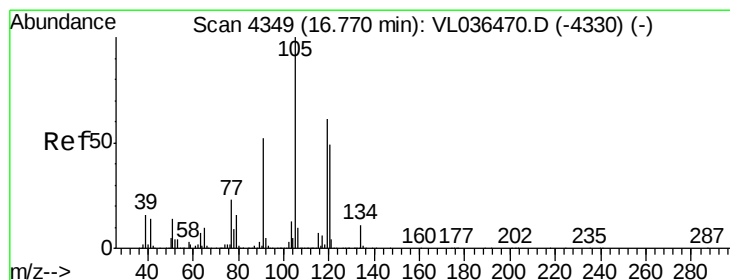
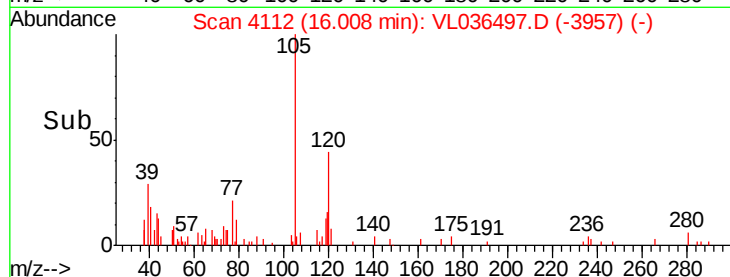
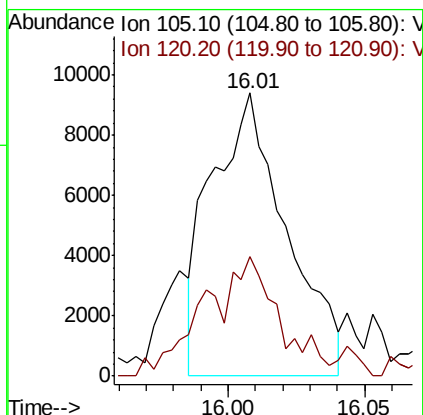
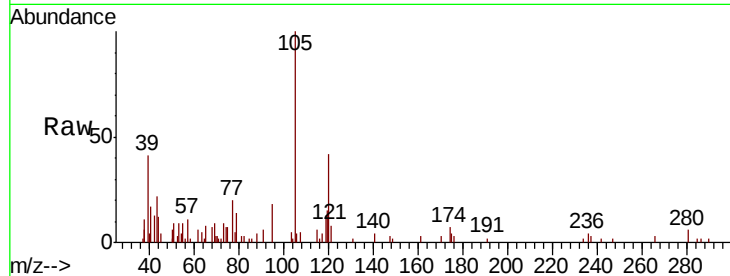
Tgt Ion: 95 Resp: 2471684
 Ion Ratio Lower Upper
 95 100
 174 64.6 51.0 76.6
 175 4.7 3.9 5.9





#73
 1,3,5-Trimethylbenzene
 Concen: 0.045 ppbv
 RT: 16.01 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 22:00

Tot Ion:105 Resp: 17933
 Ion Ratio Lower Upper
 105 100
 120 43.0 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 0.065 ppbv
 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: 27344
 Ion Ratio Lower Upper
 105 100
 120 31.9 39.2 58.8#
 91 7.9 42.6 64.0#
 77 12.7 18.6 28.0#

