

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036829.D
 Acq On : 20 Apr 2021 19:54
 Operator : SY/AP
 Sample : M2096-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 21 06:38:36 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	5.68	49	1193295	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3017765	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2519908	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1884956	9.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

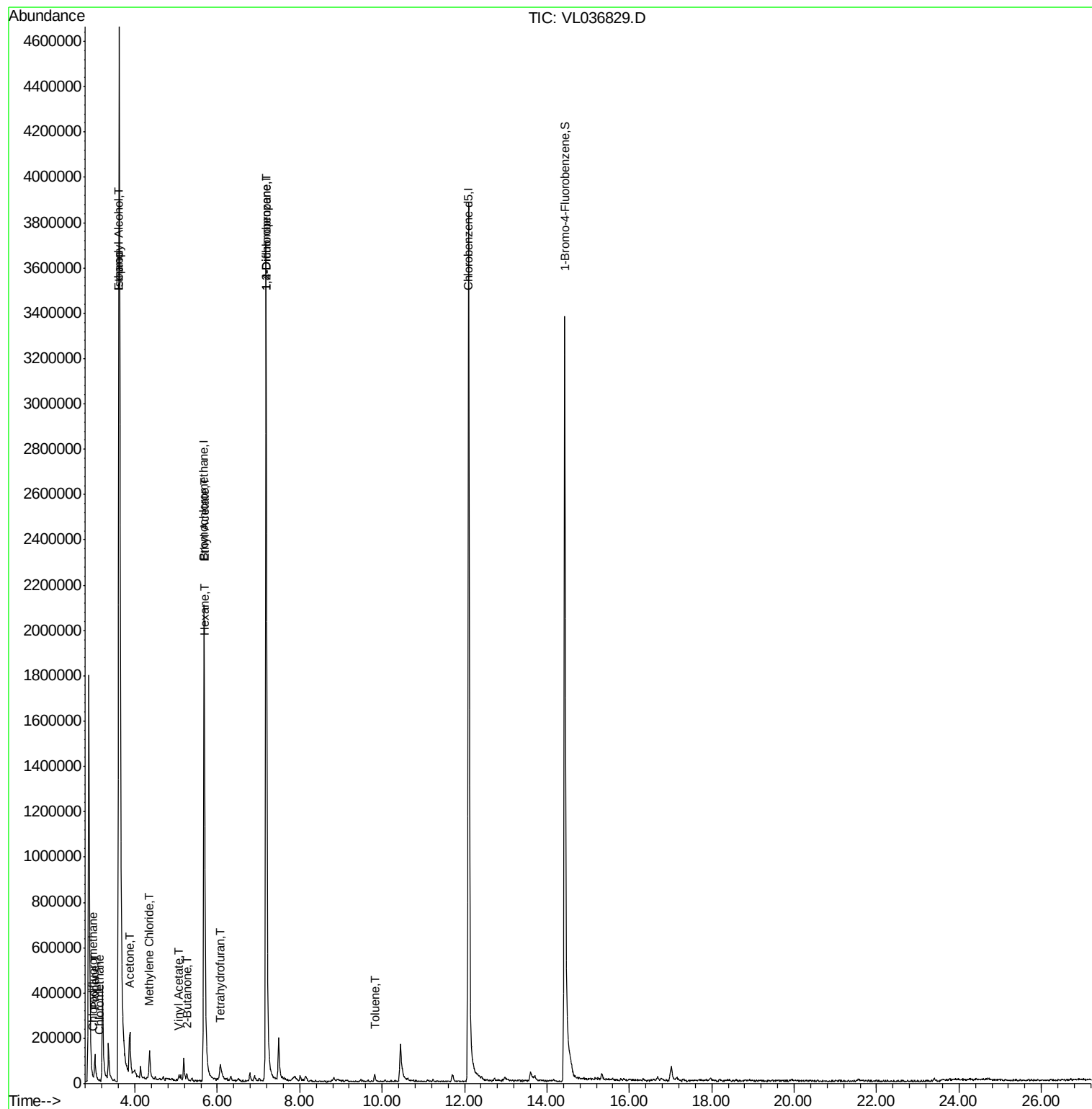
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	16228	0.073 ppbv	100
4) Chloromethane	3.14	50	6833	0.087 ppbv #	81
9) Propene	3.03	41	29074	0.409 ppbv	96
13) Ethanol	3.62	45	8981319	1061.124 ppbv	94
15) Acetone	3.86	43	218565	1.861 ppbv	90
19) Isopropyl Alcohol	3.62	45	8981319	139.013 ppbv #	89
20) Methylene Chloride	4.35	84	51778	0.942 ppbv	90
23) Vinyl Acetate	5.08	43	6475	0.032 ppbv #	84
25) Ethyl Acetate	5.69	43	118519	0.424 ppbv #	96
26) Hexane	5.70	57	35712	0.276 ppbv #	24
34) 2-Butanone	5.26	43	34320	0.233 ppbv #	79
39) 1,2-Dichloropropane	7.19	63	779751	6.907 ppbv #	23
41) Tetrahydrofuran	6.05	42	2396	0.035 ppbv #	41
53) Toluene	9.82	91	15513	0.052 ppbv #	63

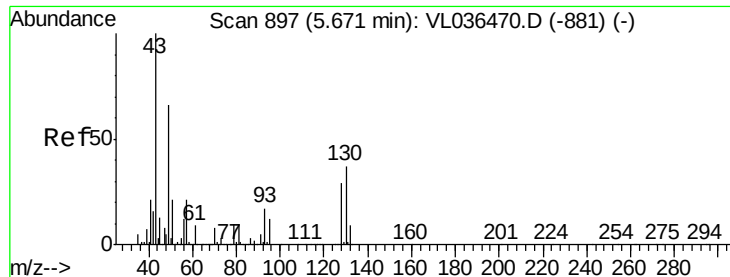
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 20 Apr 2021 19:54

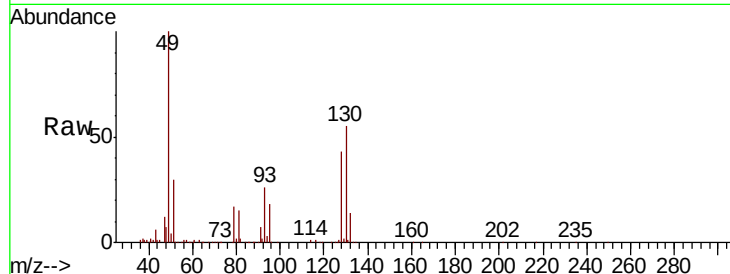
Tot Ion: 49 Resp: 1193295

Ion Ratio Lower Upper

49 100

128 48.1 23.5 70.6

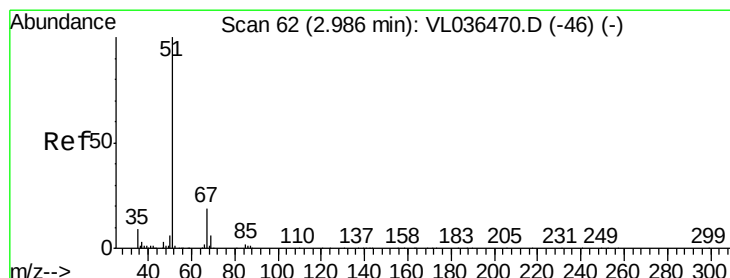
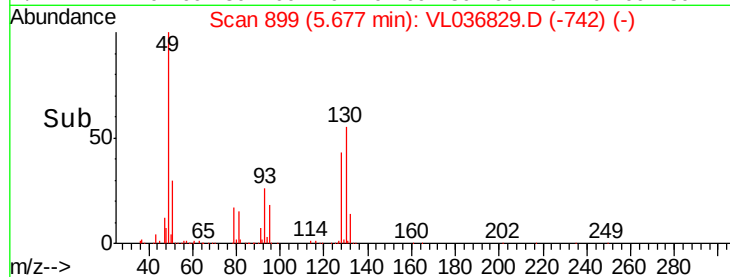
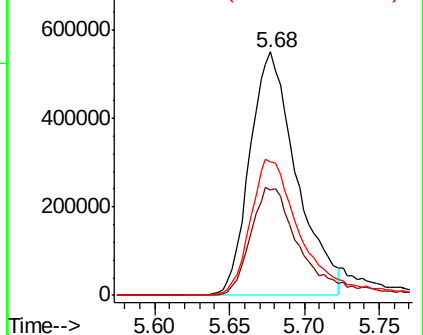
130 62.4 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.073 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL036829.D

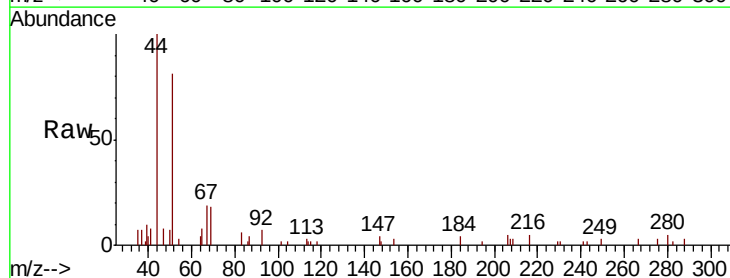
Acq: 20 Apr 2021 19:54

Tgt Ion: 51 Resp: 16228

Ion Ratio Lower Upper

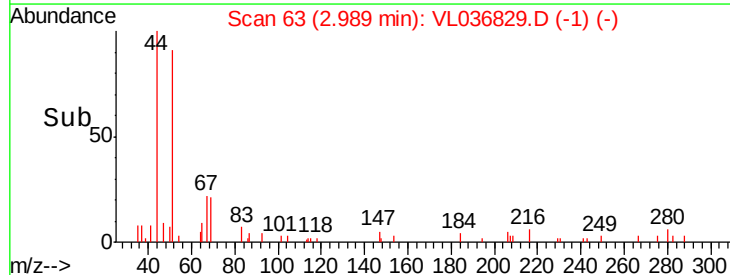
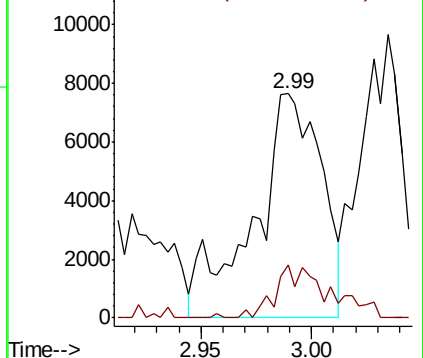
51 100

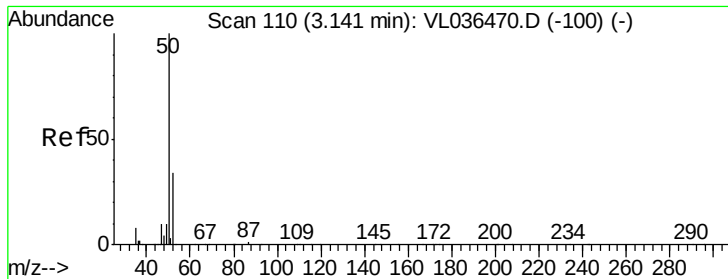
67 18.5 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.087 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File:

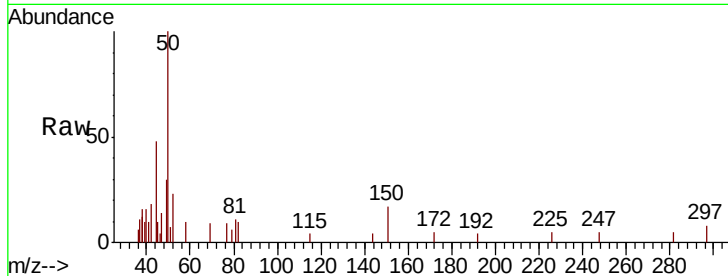
Acq: 20 Apr 2021 19:54

Tot Ion: 50 Resp: 6833

Ion Ratio Lower Upper

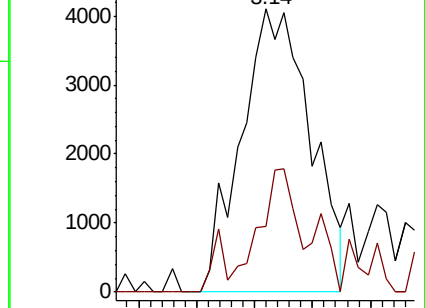
50 100

52 23.1 27.0 40.6#

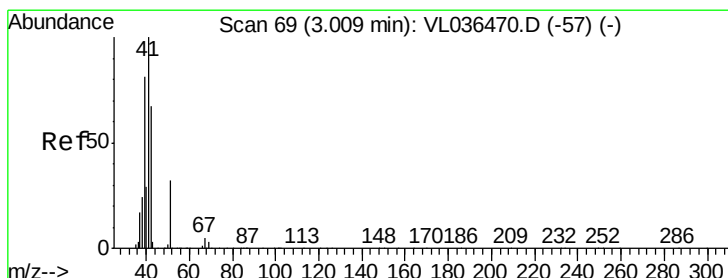
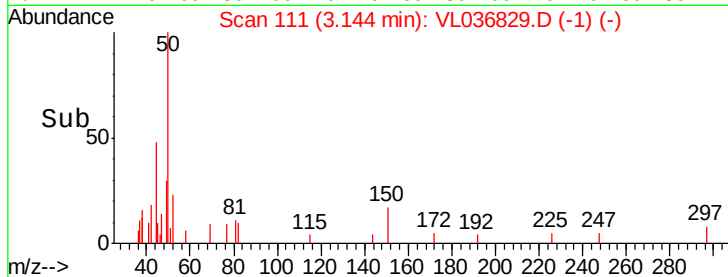


Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->



#9

Propene

Concen: 0.409 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL036829.D

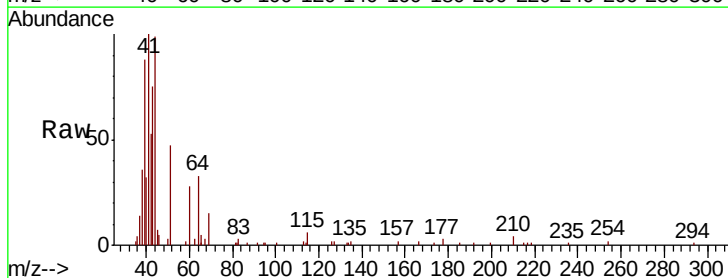
Acq: 20 Apr 2021 19:54

Tgt Ion: 41 Resp: 29074

Ion Ratio Lower Upper

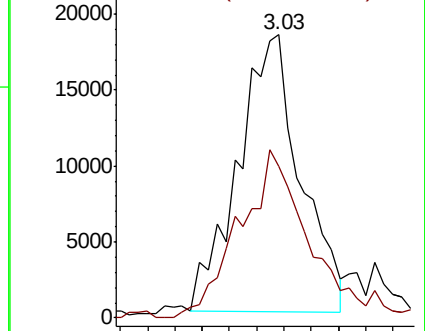
41 100

42 67.7 57.0 85.4

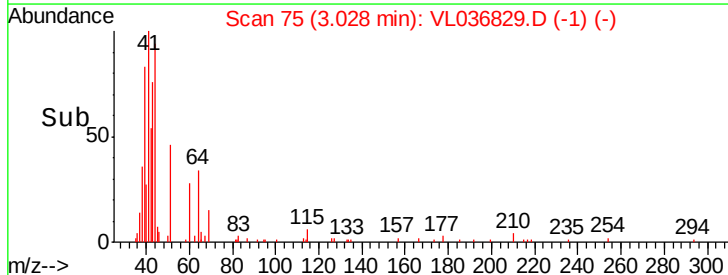


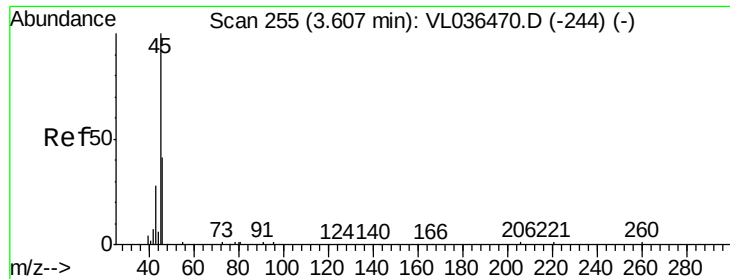
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



Time-->





#13

Ethanol

Concen: 1061.124 ppbv

RT: 3.62 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

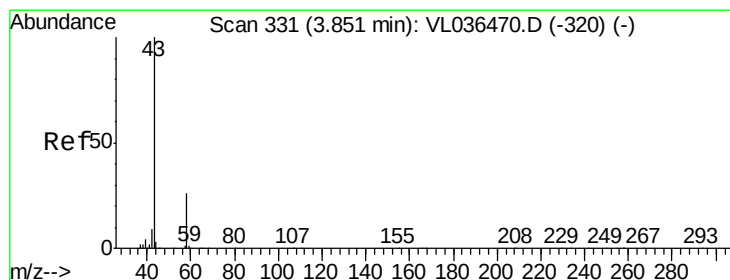
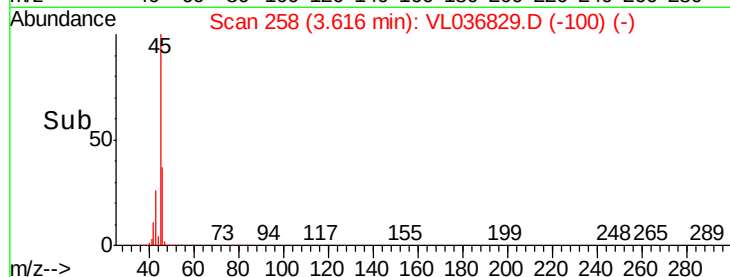
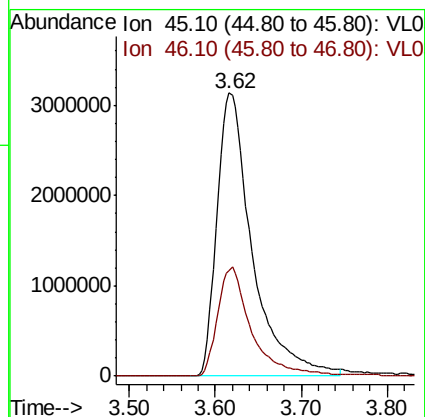
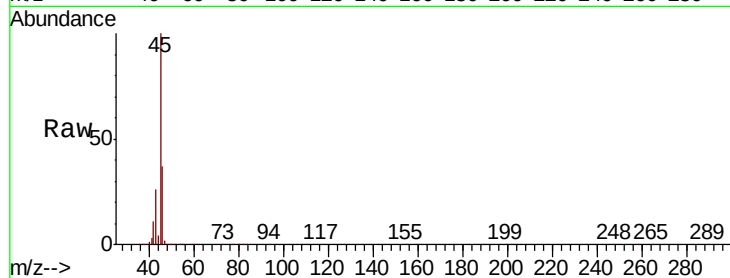
Acq: 20 Apr 2021 19:54

Tot Ion: 45 Resp: 8981319

Ion Ratio Lower Upper

45 100

46 37.6 16.6 66.2



#15

Acetone

Concen: 1.861 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL036829.D

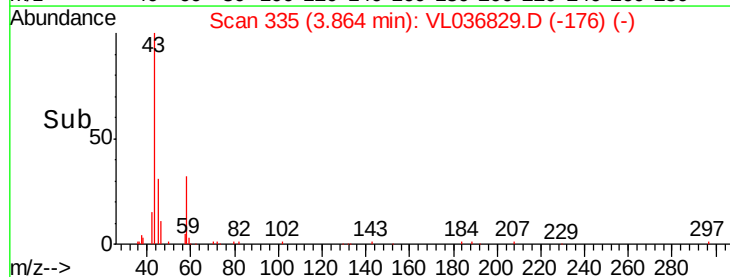
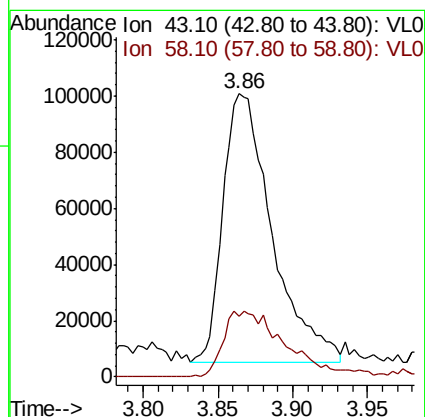
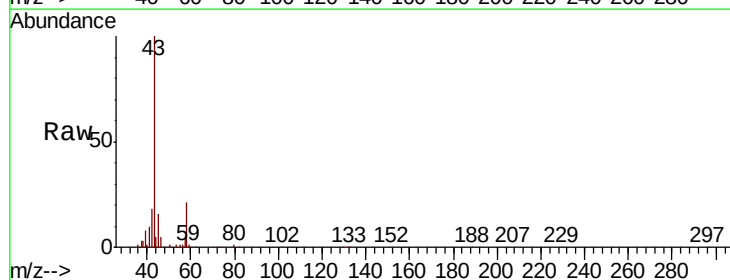
Acq: 20 Apr 2021 19:54

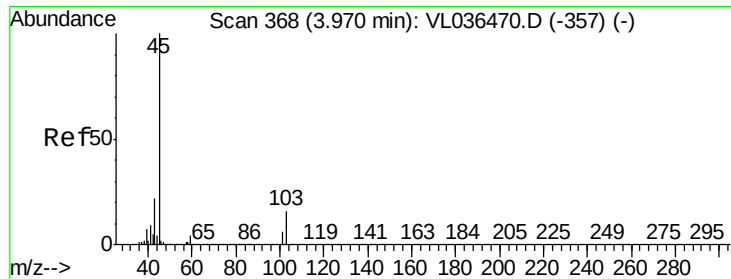
Tgt Ion: 43 Resp: 218565

Ion Ratio Lower Upper

43 100

58 31.6 21.2 31.8





#19

Isopropyl Alcohol

Concen: 139.013 ppbv

RT: 3.62 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

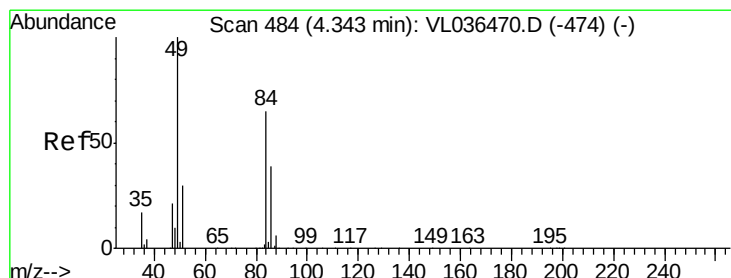
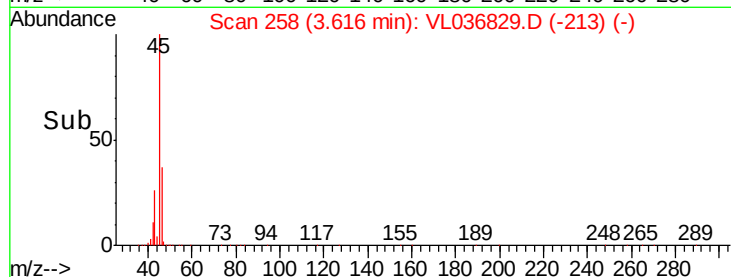
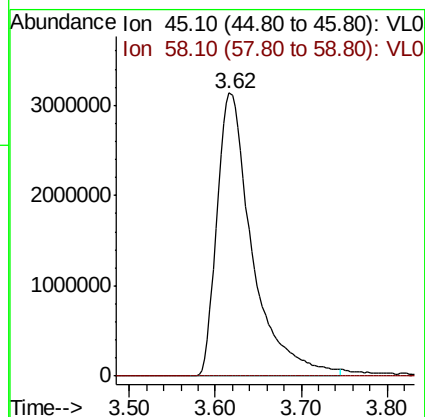
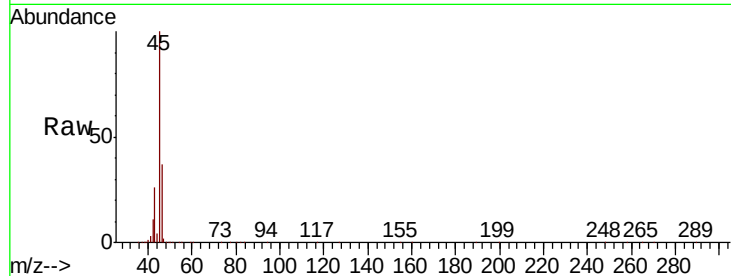
Acq: 20 Apr 2021 19:54

Tot Ion: 45 Resp: 8981319

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 0.942 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036829.D

Acq: 20 Apr 2021 19:54

Tgt Ion: 84 Resp: 51778

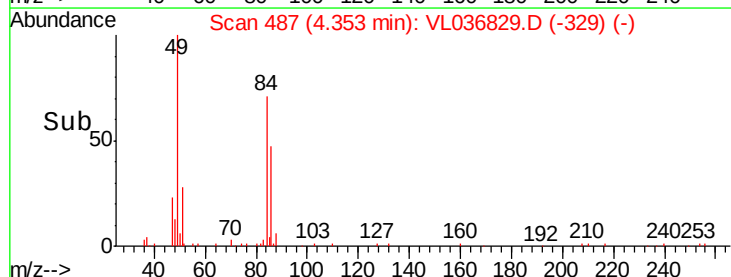
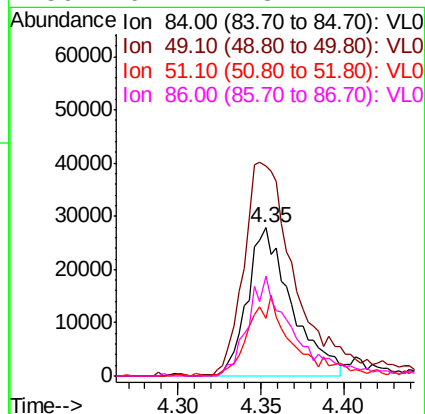
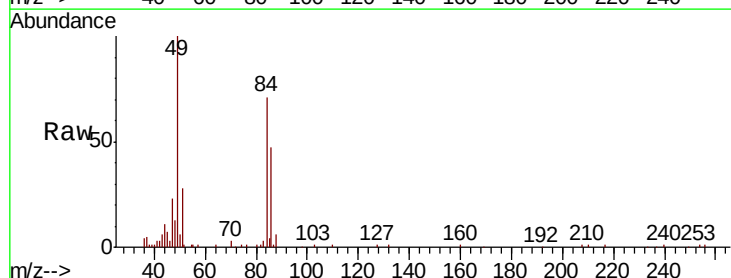
Ion Ratio Lower Upper

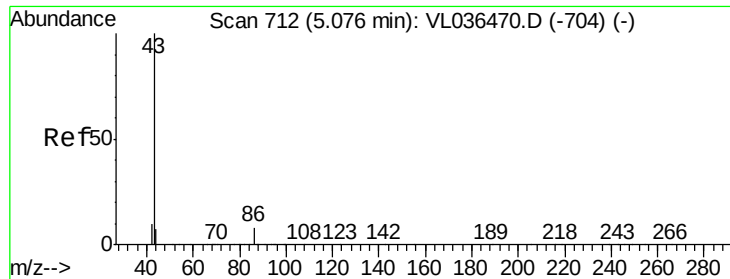
84 100

49 141.3 122.9 184.3

51 39.2 36.9 55.3

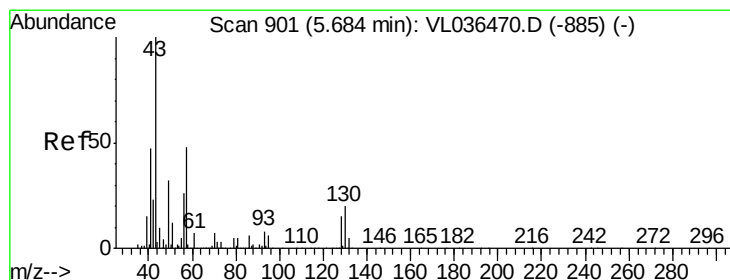
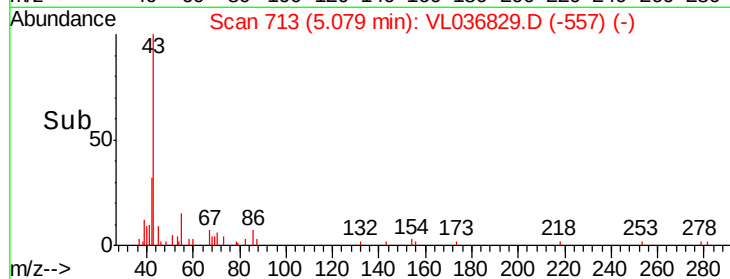
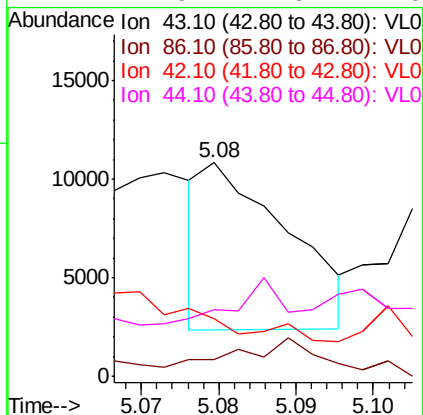
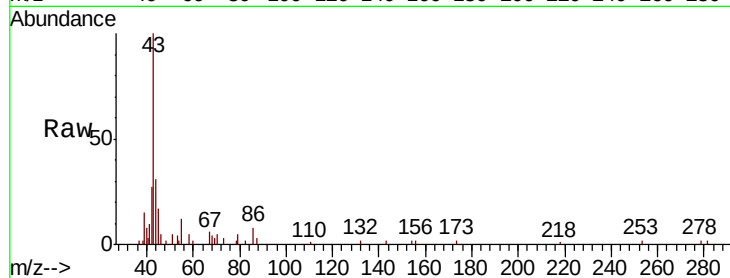
86 67.1 48.2 72.4





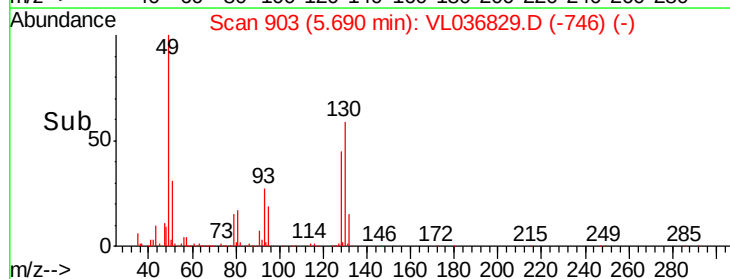
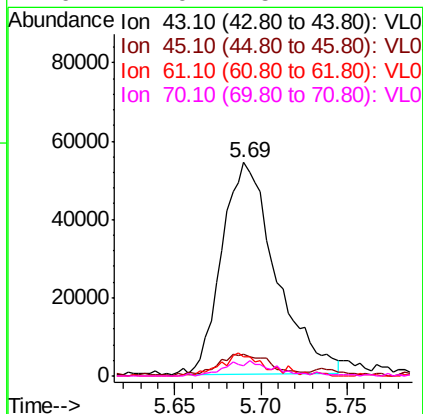
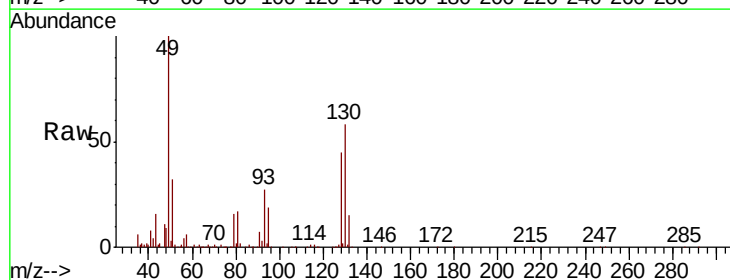
#23
 Vinyl Acetate
 Concen: 0.032 ppbv
 RT: 5.08 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 19:54

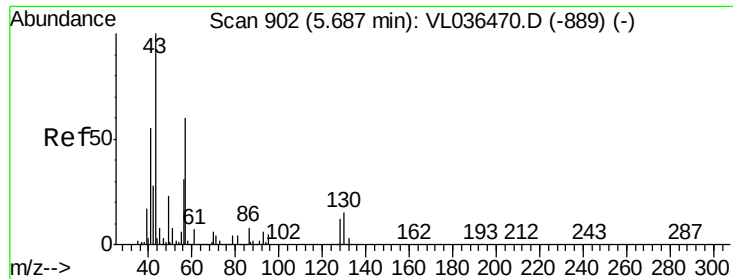
Tot Ion:	43	Resp:	6475
Ion	Ratio	Lower	Upper
43	100		
86	3.4	5.4	8.0#
42	20.2	8.5	12.7#
44	7.9	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.424 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.01 min
 Lab File: VL036829.D
 Acq: 20 Apr 2021 19:54

Tgt Ion:	43	Resp:	118519
Ion	Ratio	Lower	Upper
43	100		
45	13.1	7.9	11.9#
61	9.5	7.4	11.2
70	7.0	5.1	7.7





#26

Hexane

Concen: 0.276 ppbv

RT: 5.70 Instrument:

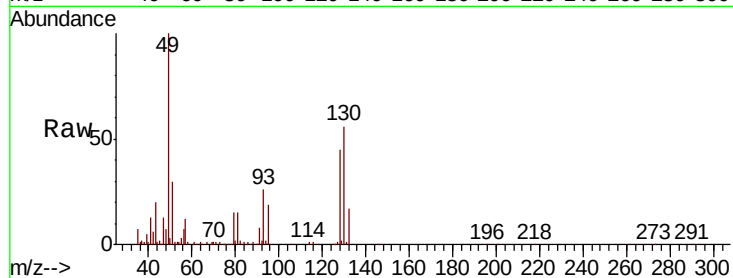
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 19:54

Tot Ion: 57 Resp: 35712

Ion	Ratio	Lower	Upper
57	100		
41	169.8	77.2	115.8#
43	349.5	173.8	260.6#
56	93.2	43.8	65.6#



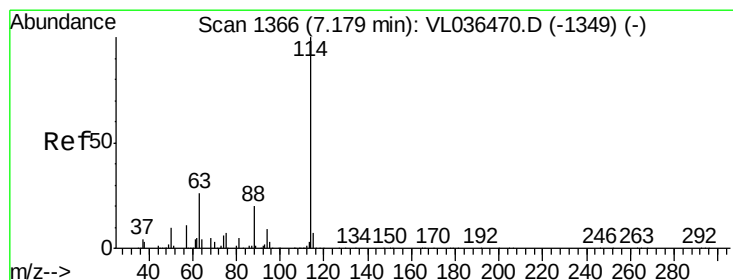
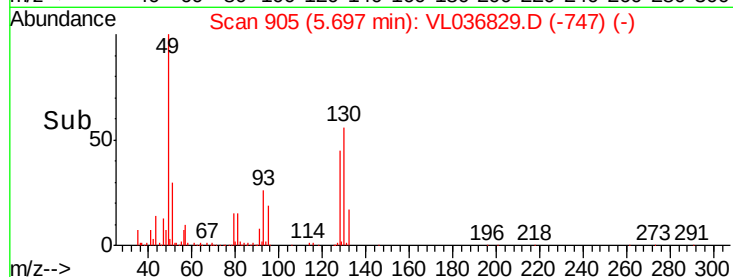
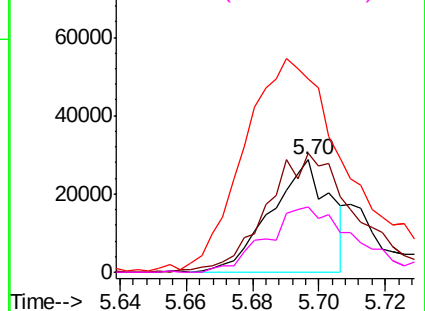
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

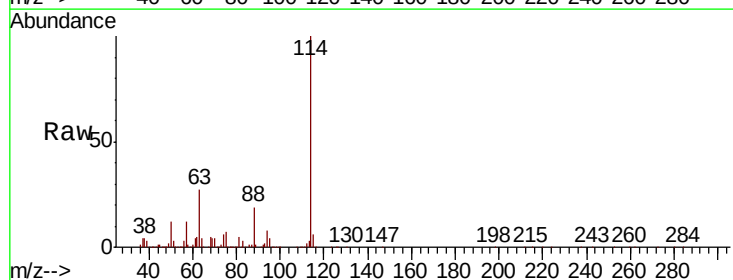
Delta R.T. 0.01 min

Lab File: VL036829.D

Acq: 20 Apr 2021 19:54

Tgt Ion: 114 Resp: 3017765

Ion	Ratio	Lower	Upper
114	100		
63	27.0	22.4	33.6
88	18.6	15.4	23.0

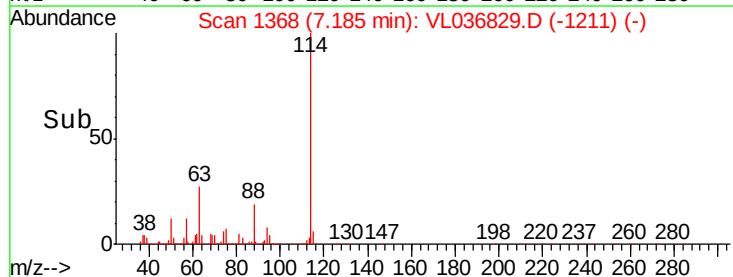
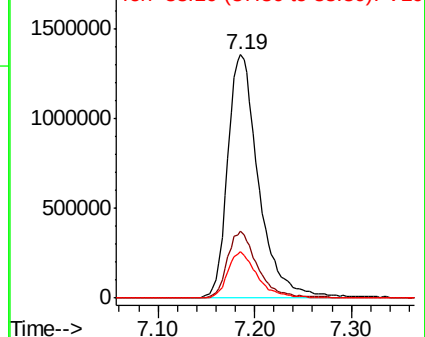


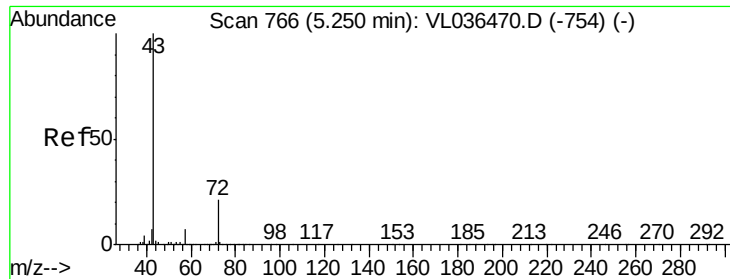
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.233 ppbv

RT: 5.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

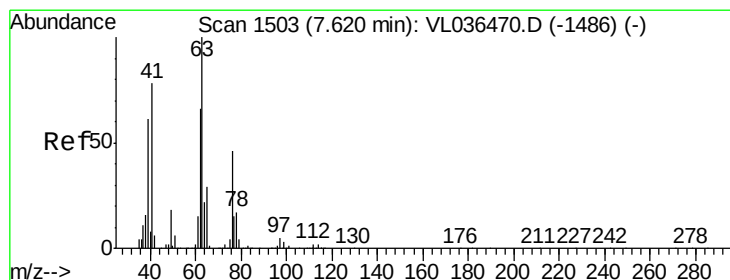
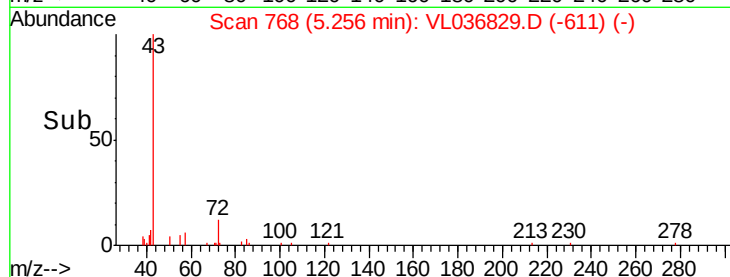
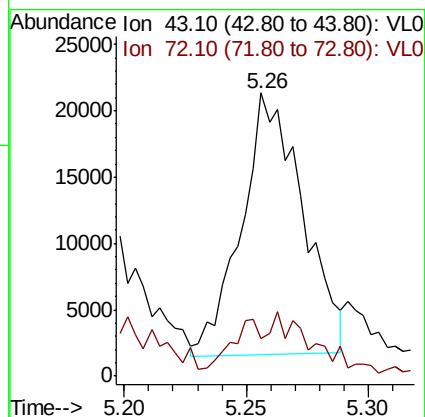
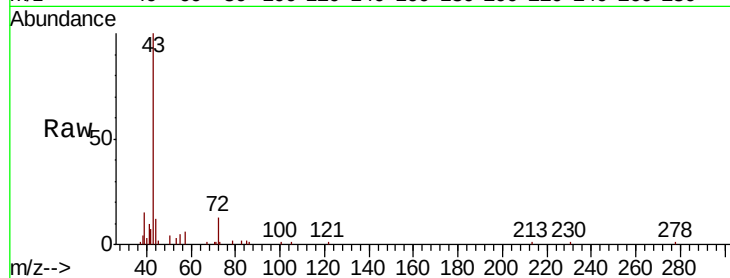
Acq: 20 Apr 2021 19:54

Tot Ion: 43 Resp: 34320

Ion Ratio Lower Upper

43 100

72 31.3 17.0 25.6#



#39

1,2-Dichloropropane

Concen: 6.907 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.43 min

Lab File: VL036829.D

Acq: 20 Apr 2021 19:54

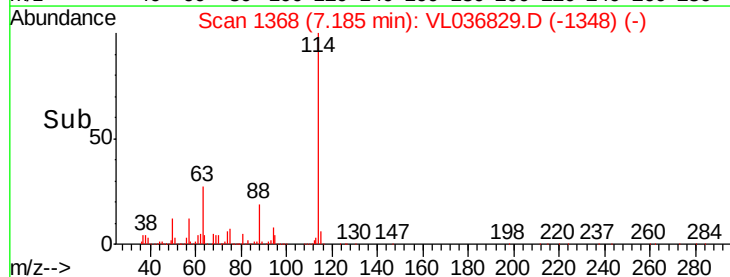
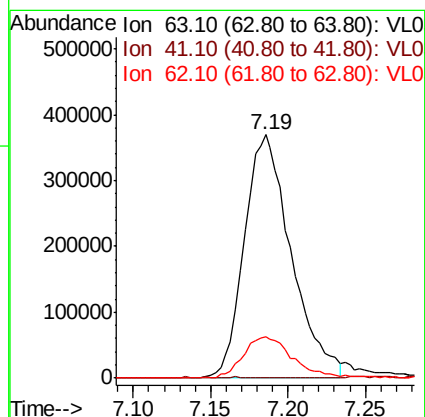
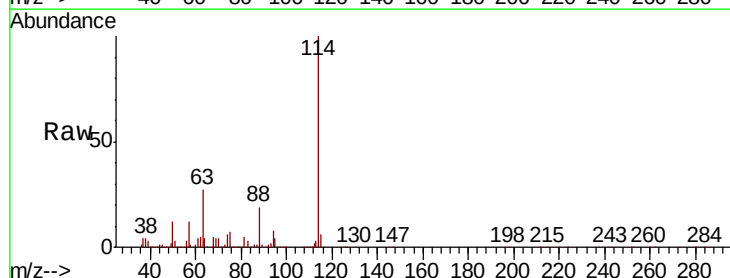
Tgt Ion: 63 Resp: 779751

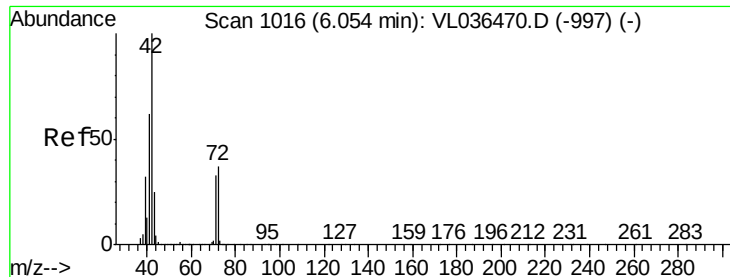
Ion Ratio Lower Upper

63 100

41 0.1 62.4 93.6#

62 17.2 52.8 79.2#





#41

Tetrahydrofuran

Concen: 0.035 ppbv

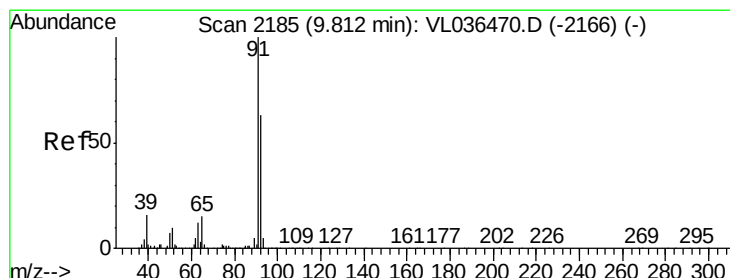
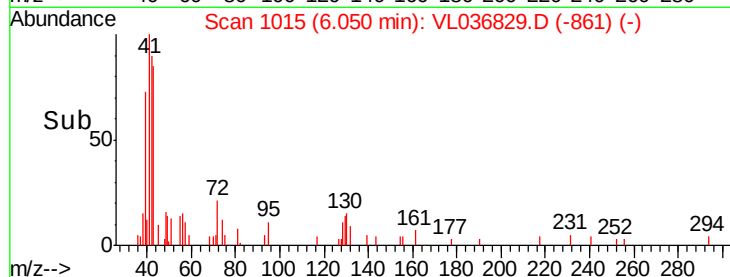
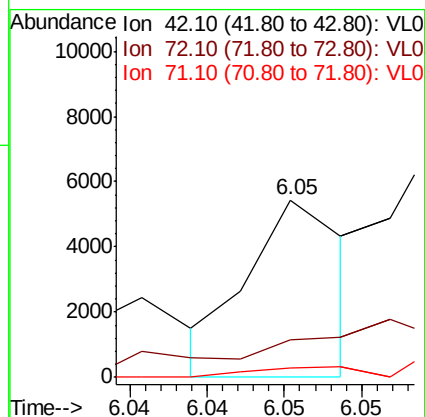
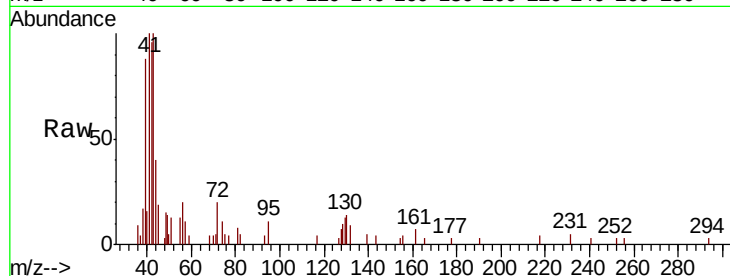
RT: 6.05 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 19:54

Tot Ion:	42	Resp:	2396
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.6	41.4#
71	0.0	27.0	40.4#



#53

Toluene

Concen: 0.052 ppbv

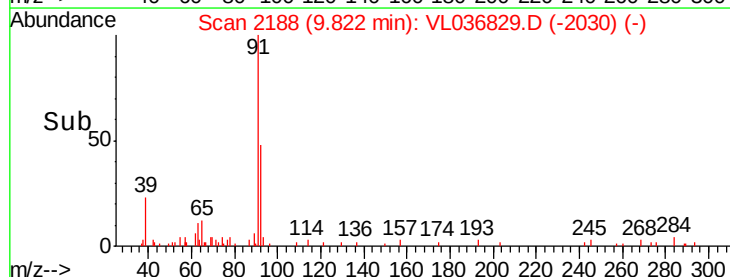
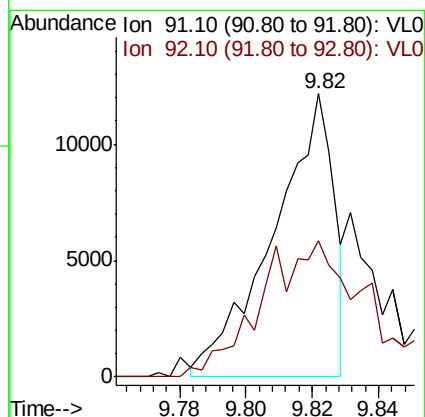
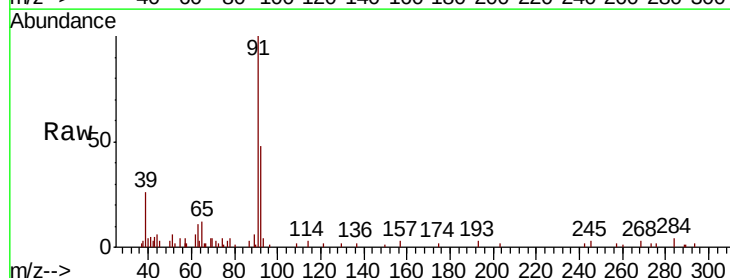
RT: 9.82 min Scan# 2188

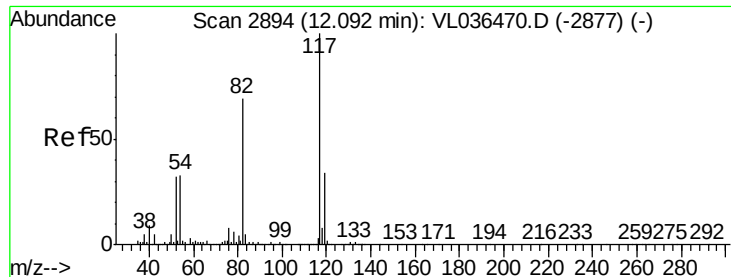
Delta R.T. 0.01 min

Lab File: VL036829.D

Acq: 20 Apr 2021 19:54

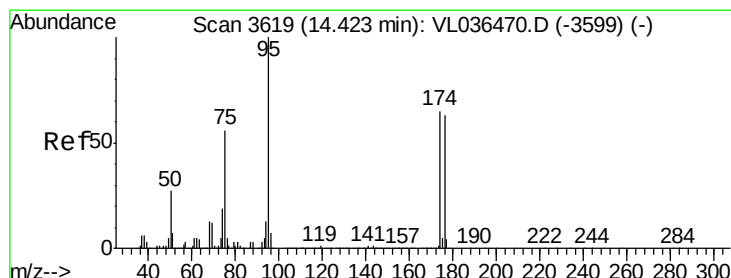
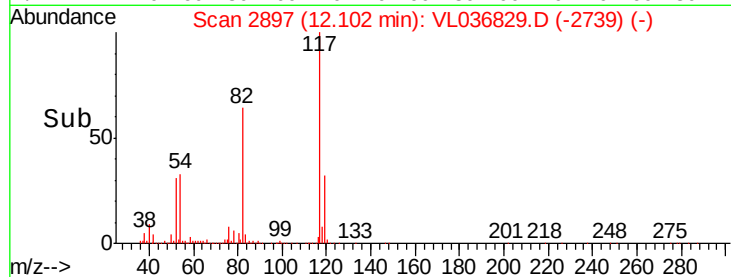
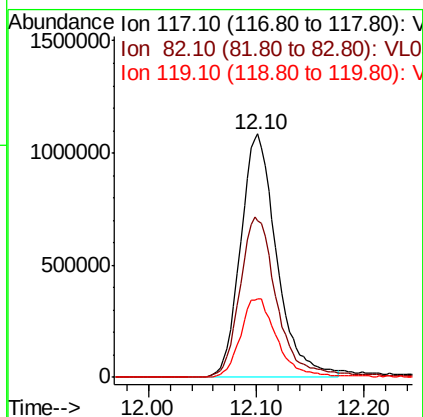
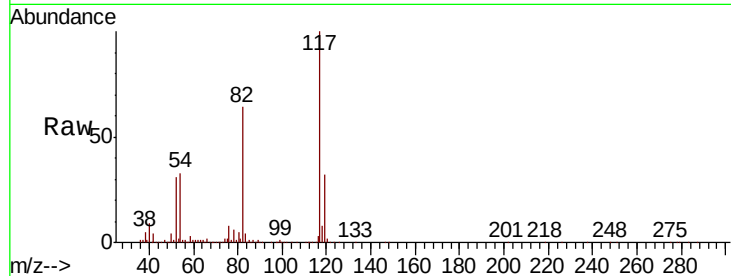
Tgt Ion:	91	Resp:	15513
Ion	Ratio	Lower	Upper
91	100		
92	89.6	48.8	73.2#





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 20 Apr 2021 19:54

Tot Ion: 117 Resp: 2519908
 Ion Ratio Lower Upper
 117 100
 82 68.9 57.4 86.0
 119 33.1 47.4 71.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.385 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T.: 0.01 min
 Lab File: VL036829.D
 Acq: 20 Apr 2021 19:54

Tgt Ion: 95 Resp: 1884956
 Ion Ratio Lower Upper
 95 100
 174 64.2 51.0 76.6
 175 4.4 3.9 5.9

