

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036823.D
 Acq On : 20 Apr 2021 15:58
 Operator : SY/AP
 Sample : M2096-05 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 21 06:37:02 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	5.68	49	1218731	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3108647	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2689873	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2024787	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

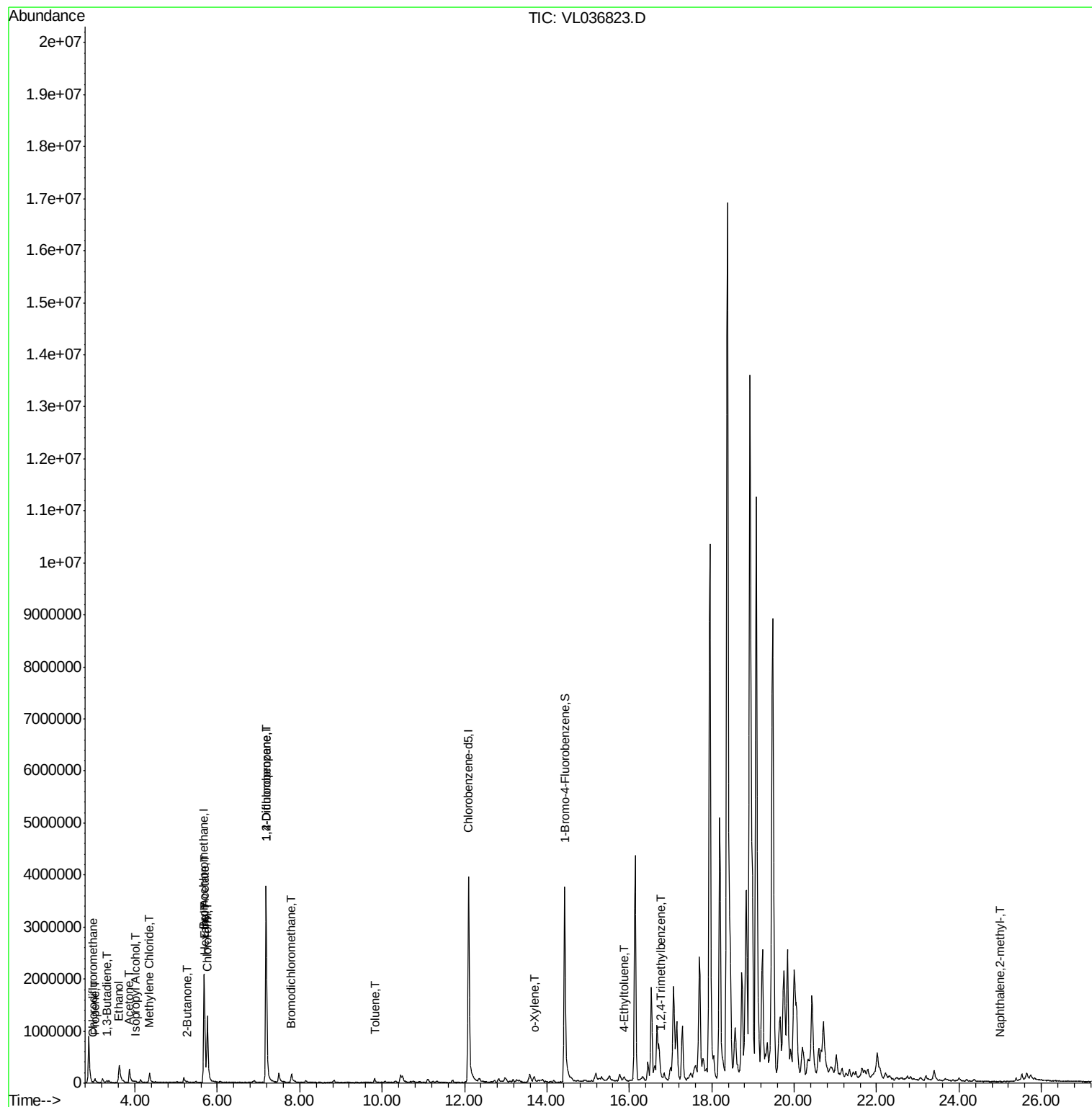
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	13181	0.058 ppbv	99
9) Propene	3.01	41	2454	0.034 ppbv #	14
13) Ethanol	3.62	45	368470	42.625 ppbv	70
15) Acetone	3.86	43	344626	2.873 ppbv #	87
16) 1,3-Butadiene	3.32	39	6078	0.073 ppbv #	79
19) Isopropyl Alcohol	4.00	45	12830	0.194 ppbv #	1
20) Methylene Chloride	4.35	84	65082	1.159 ppbv	89
25) Ethyl Acetate	5.69	43	57822	0.203 ppbv #	83
26) Hexane	5.70	57	56804	0.429 ppbv #	34
29) Chloroform	5.76	83	965326	4.561 ppbv	95
34) 2-Butanone	5.26	43	16133	0.106 ppbv #	14
39) 1,2-Dichloropropane	7.19	63	806406	6.934 ppbv #	24
42) Bromodichloromethane	7.80	83	61500	0.268 ppbv	98
53) Toluene	9.82	91	58775	0.193 ppbv	100
60) o-Xylene	13.71	91	27797	0.084 ppbv	79
72) 4-Ethyltoluene	15.85	105	12383	0.034 ppbv #	57
74) 1,2,4-Trimethylbenzene	16.78	105	24014	0.066 ppbv #	65
80) Naphthalene,2-methyl-	25.02	142	2597	0.062 ppbv #	84

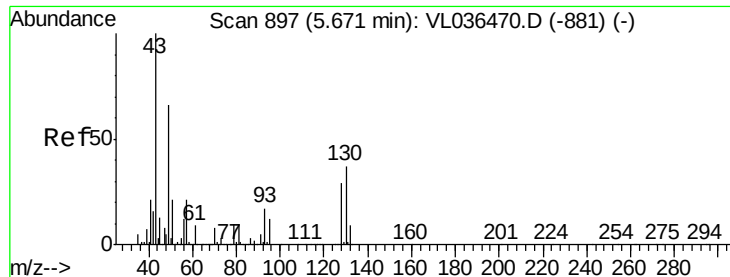
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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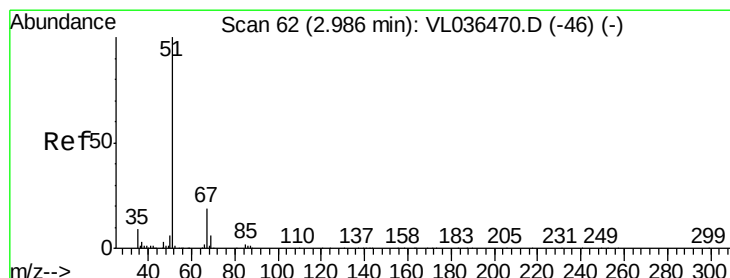
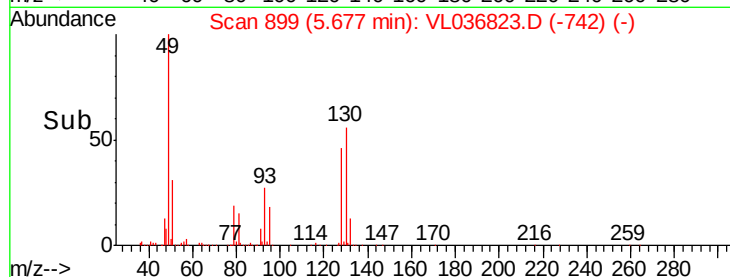
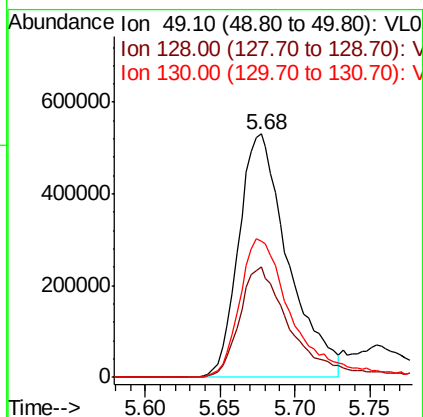
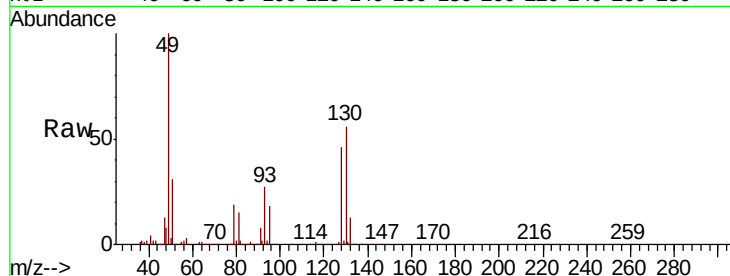
Quant Time: Apr 21 06:37:02 2021
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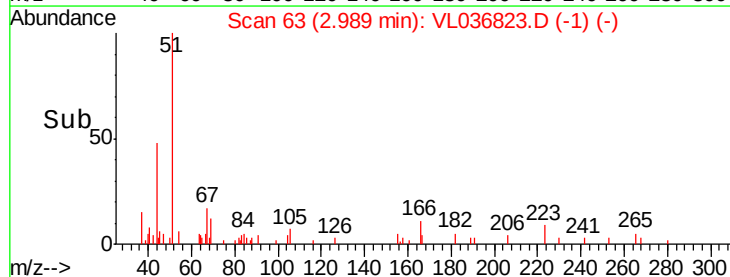
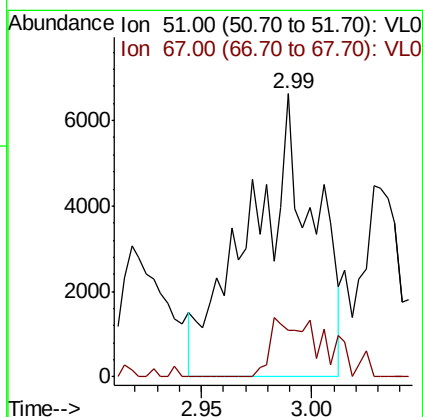
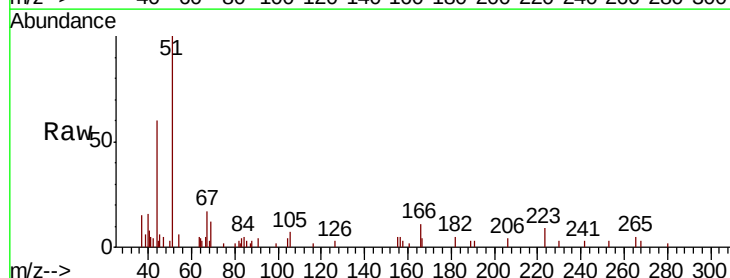
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 15:58

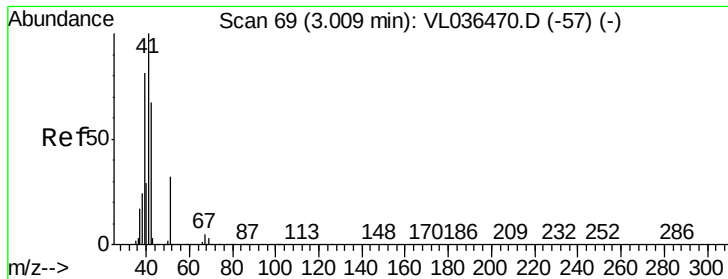
Tot Ion: 49 Resp: 1218731
 Ion Ratio Lower Upper
 49 100
 128 48.4 23.5 70.6
 130 62.1 29.1 87.4



#3
 Chlorodifluoromethane
 Concen: 0.058 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: VL036823.D
 Acq: 20 Apr 2021 15:58

Tgt Ion: 51 Resp: 13181
 Ion Ratio Lower Upper
 51 100
 67 17.9 14.7 22.1





#9

Propene

Concen: 0.034 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

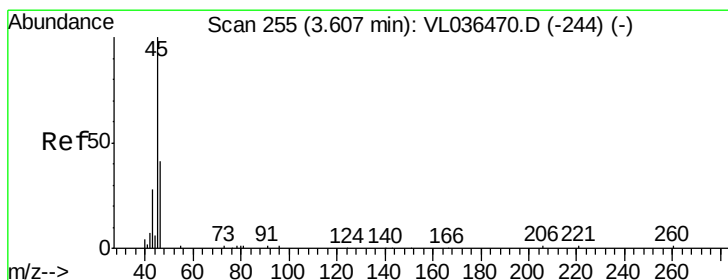
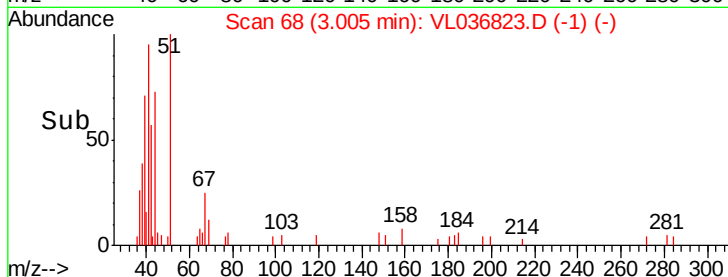
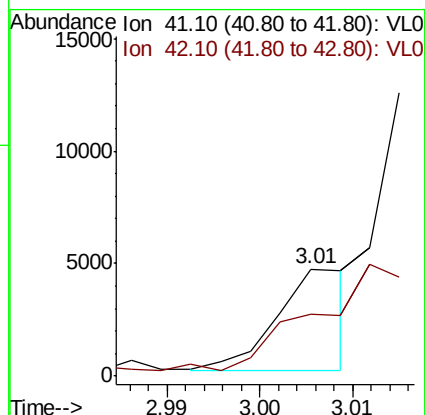
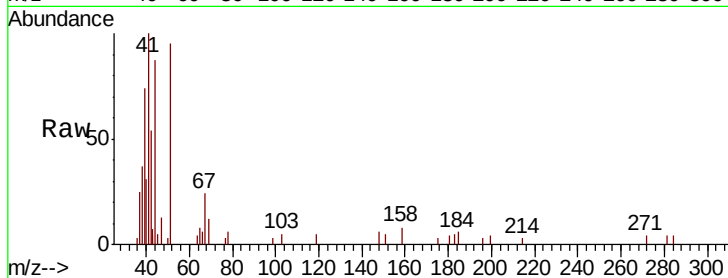
Acq: 20 Apr 2021 15:58

Tot Ion: 41 Resp: 2454

Ion Ratio Lower Upper

41 100

42 0.0 57.0 85.4#



#13

Ethanol

Concen: 42.625 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL036823.D

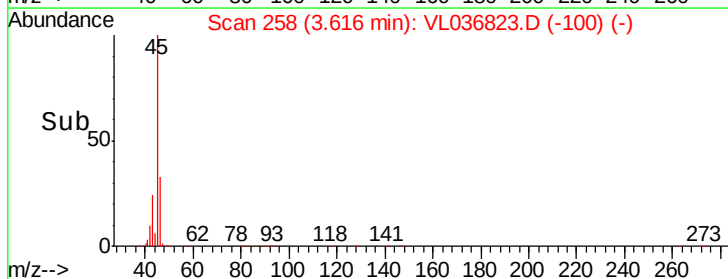
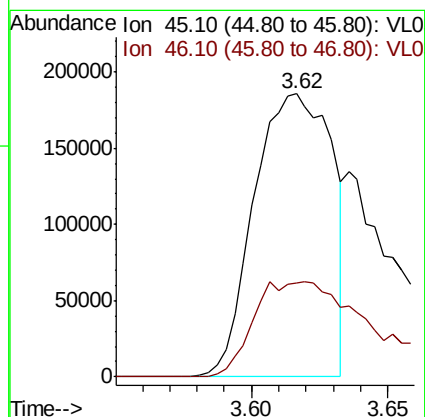
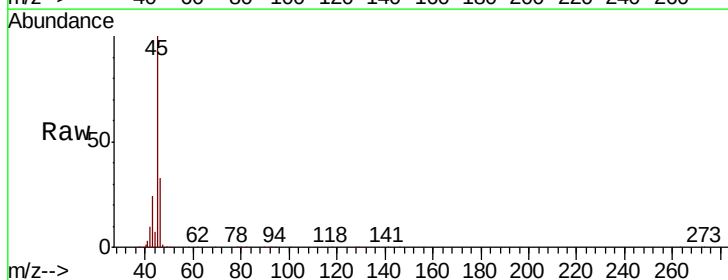
Acq: 20 Apr 2021 15:58

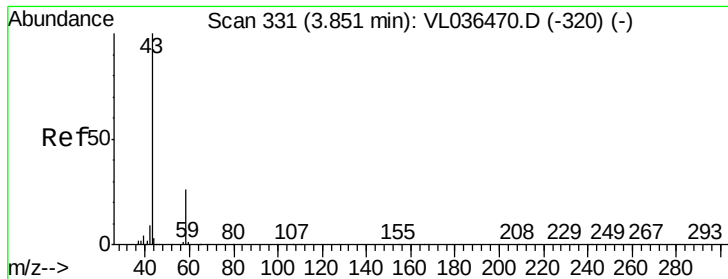
Tgt Ion: 45 Resp: 368470

Ion Ratio Lower Upper

45 100

46 60.2 16.6 66.2





#15

Acetone

Concen: 2.873 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

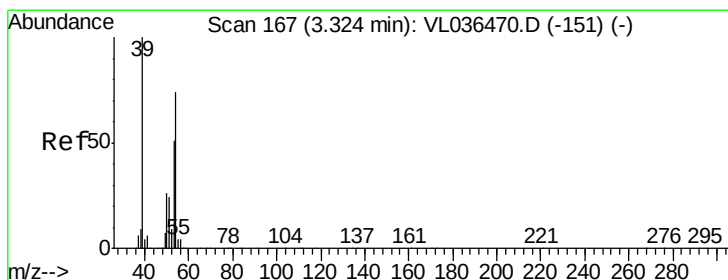
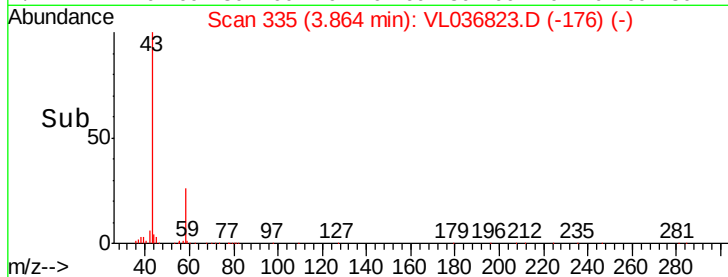
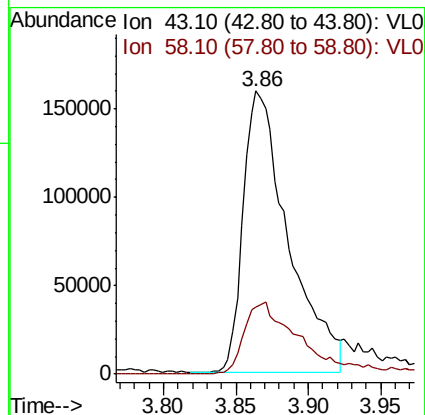
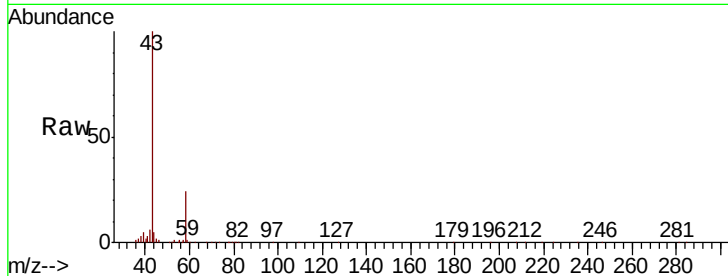
Acq: 20 Apr 2021 15:58

Tot Ion: 43 Resp: 344626

Ion Ratio Lower Upper

43 100

58 33.0 21.2 31.8#



#16

1,3-Butadiene

Concen: 0.073 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL036823.D

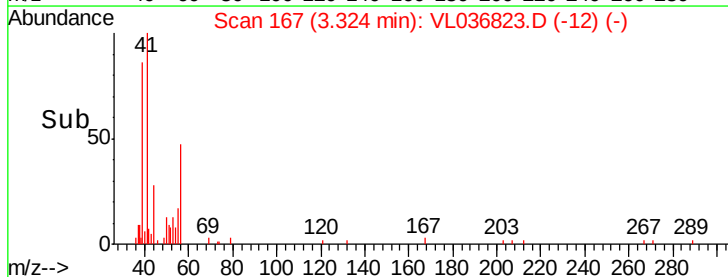
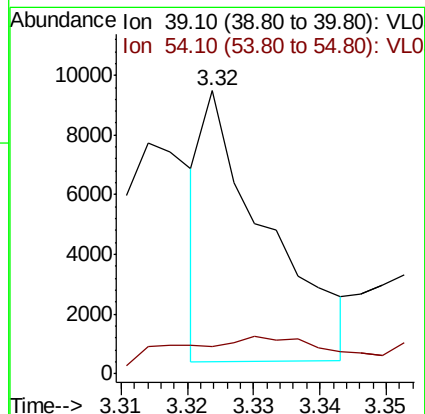
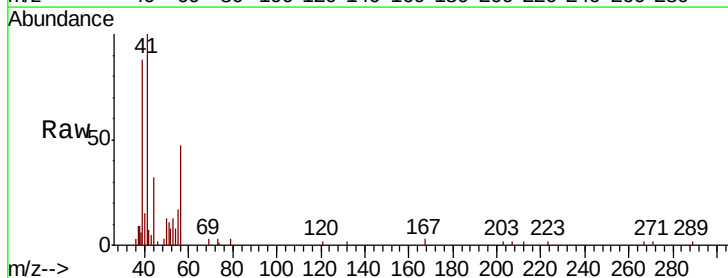
Acq: 20 Apr 2021 15:58

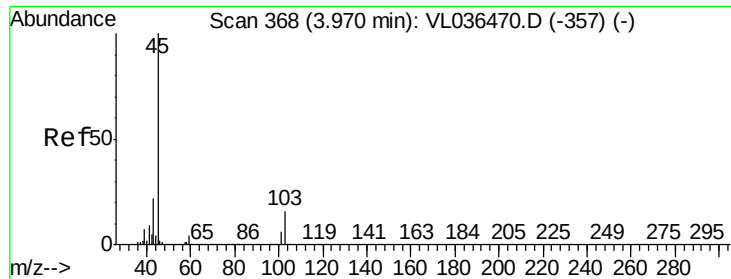
Tgt Ion: 39 Resp: 6078

Ion Ratio Lower Upper

39 100

54 55.8 58.8 88.2#





#19

Isopropyl Alcohol

Concen: 0.194 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

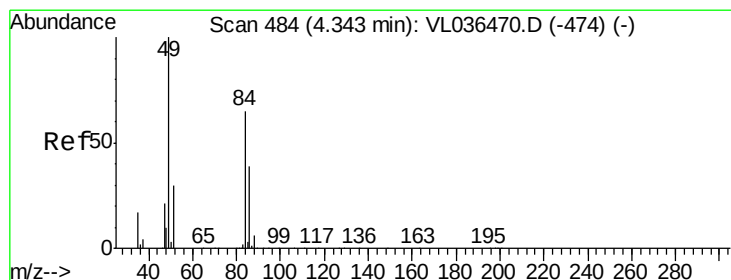
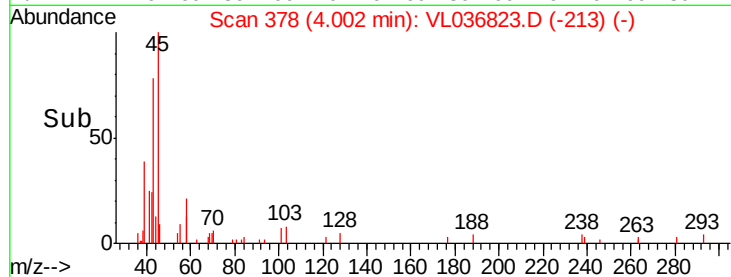
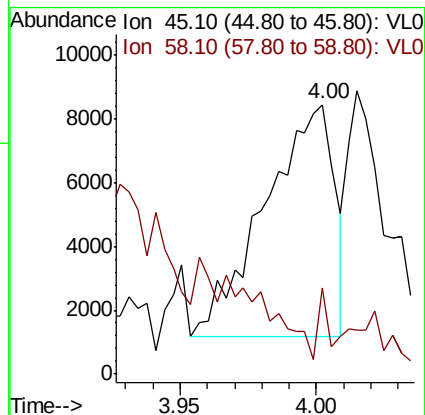
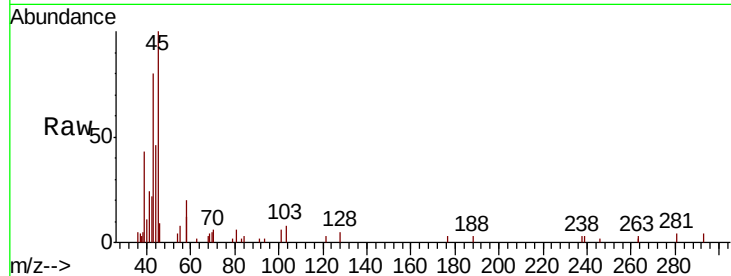
Acq: 20 Apr 2021 15:58

Tot Ion: 45 Resp: 12830

Ion Ratio Lower Upper

45 100

58 908.5 2.9 4.3#



#20

Methylene Chloride

Concen: 1.159 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036823.D

Acq: 20 Apr 2021 15:58

Tgt Ion: 84 Resp: 65082

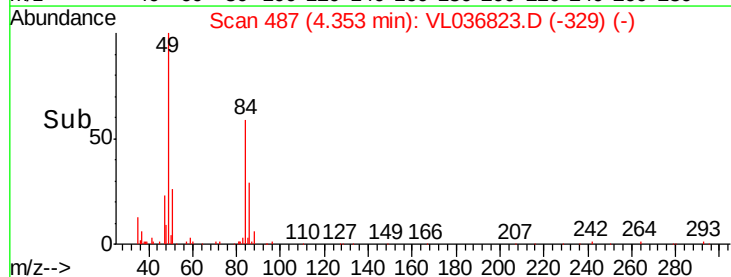
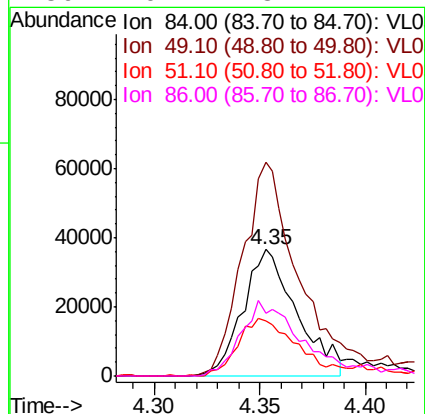
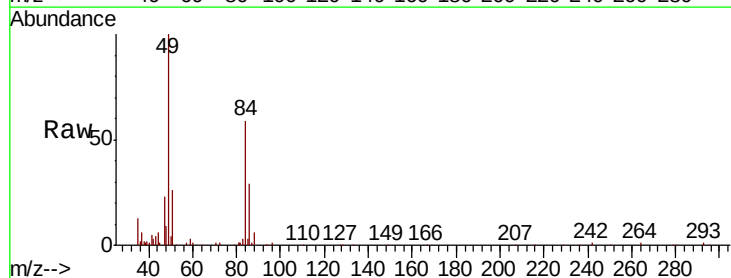
Ion Ratio Lower Upper

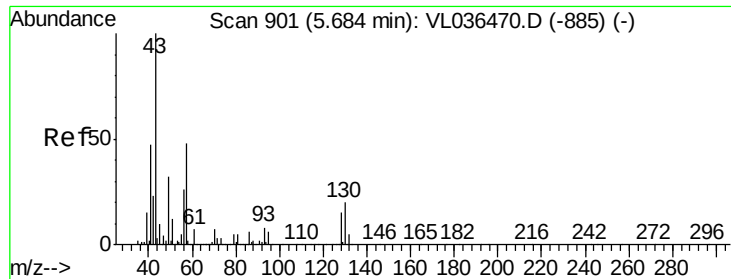
84 100

49 169.0 122.9 184.3

51 42.0 36.9 55.3

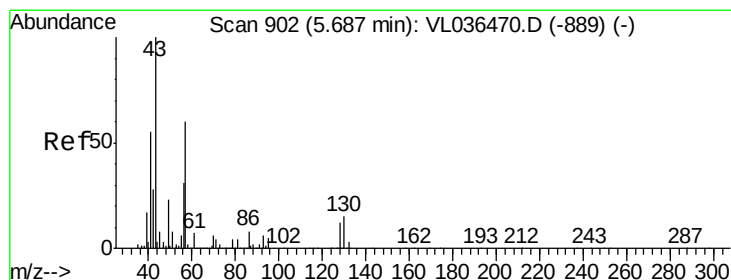
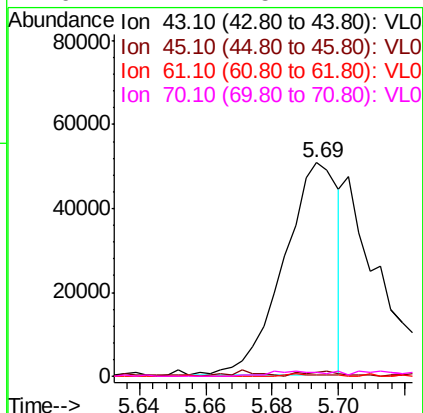
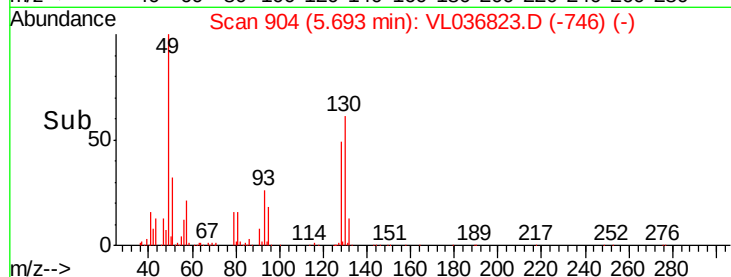
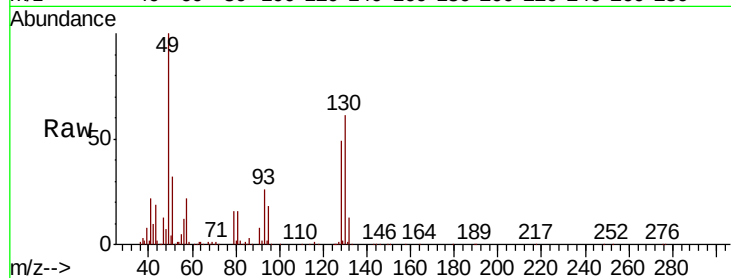
86 49.4 48.2 72.4





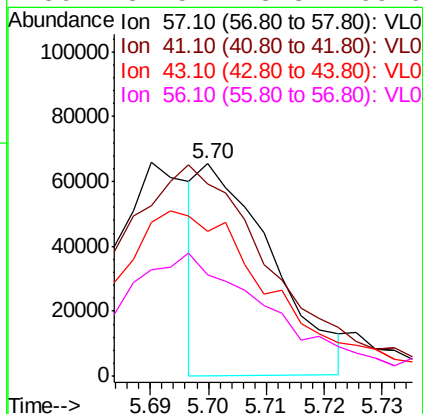
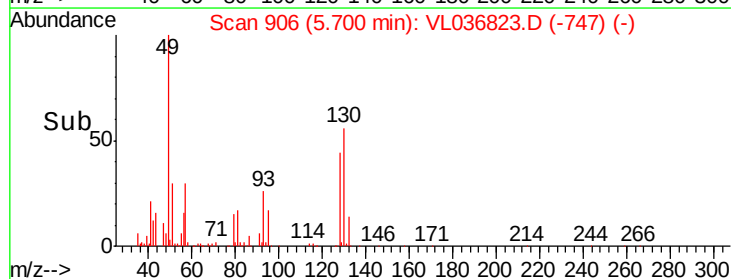
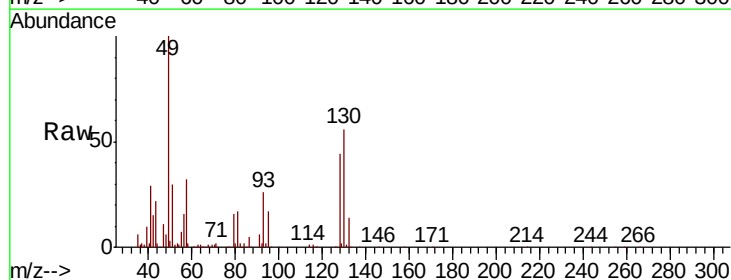
#25
Ethyl Acetate
Concen: 0.203 ppbv
RT: 5.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 20 Apr 2021 15:58

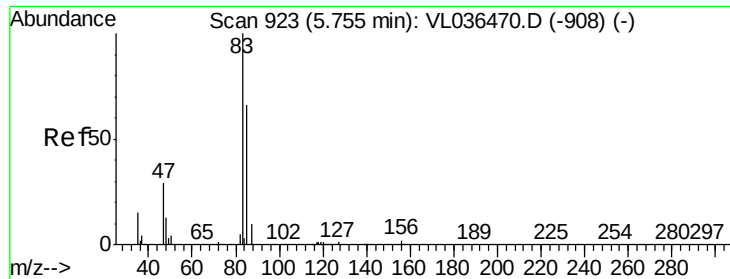
Tot Ion:	43	Resp:	57822
Ion	Ratio	Lower	Upper
43	100		
45	4.1	7.9	11.9#
61	0.0	7.4	11.2#
70	4.2	5.1	7.7#



#26
Hexane
Concen: 0.429 ppbv
RT: 5.70 min Scan# 906
Delta R.T.: 0.01 min
Lab File: VL036823.D
Acq: 20 Apr 2021 15:58

Tgt Ion:	57	Resp:	56804
Ion	Ratio	Lower	Upper
57	100		
41	237.4	77.2	115.8#
43	183.8	173.8	260.6
56	132.5	43.8	65.6#





#29

Chloroform

Concen: 4.561 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

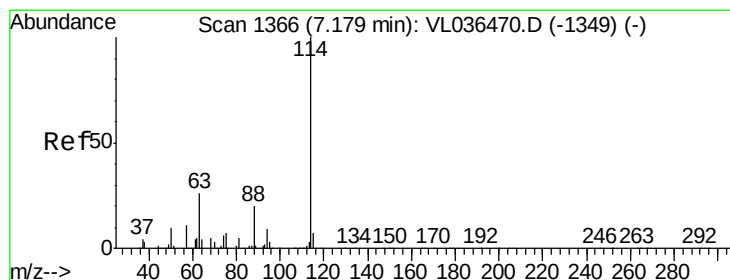
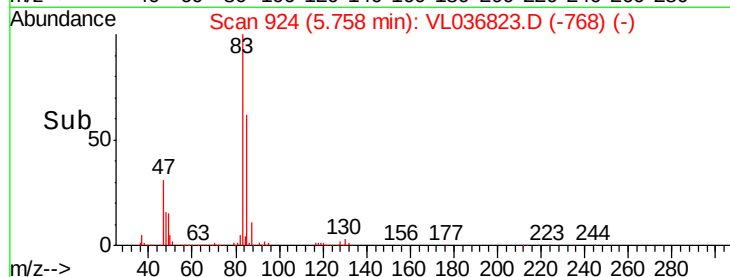
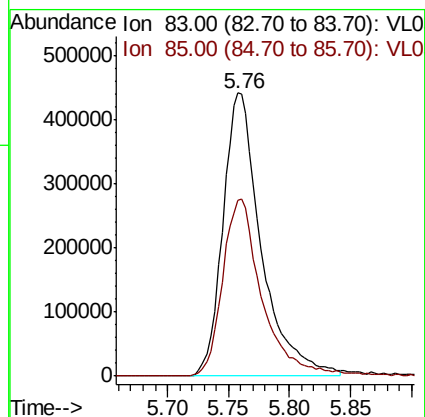
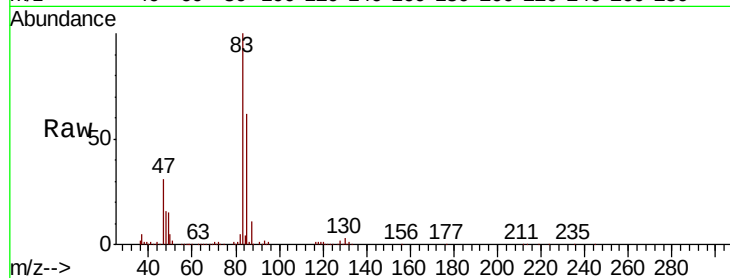
Acq: 20 Apr 2021 15:58

Tot Ion: 83 Resp: 965326

Ion Ratio Lower Upper

83 100

85 62.1 52.6 78.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VL036823.D

Acq: 20 Apr 2021 15:58

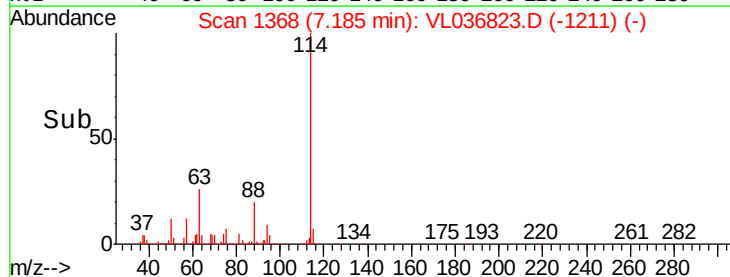
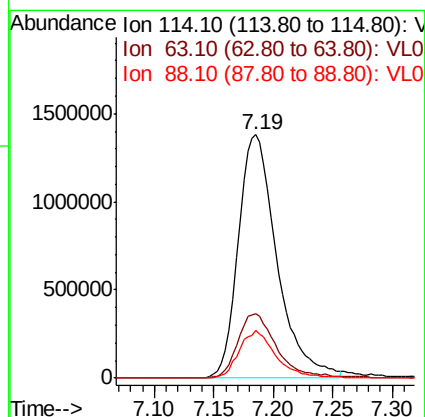
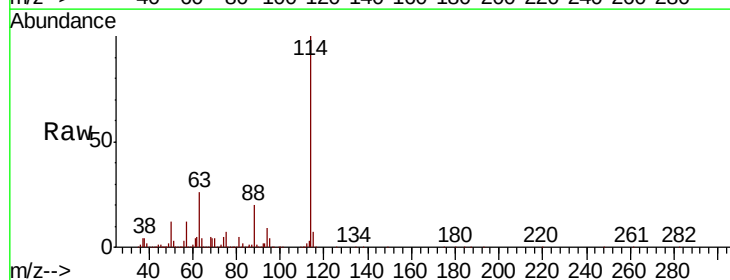
Tgt Ion: 114 Resp: 3108647

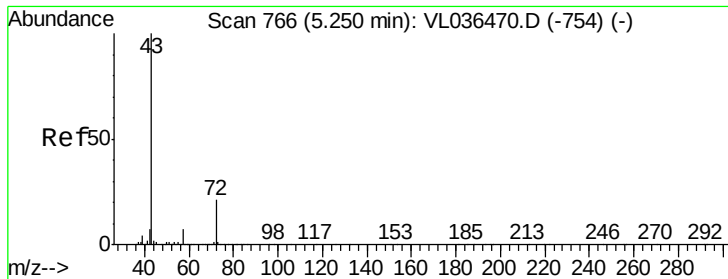
Ion Ratio Lower Upper

114 100

63 27.1 22.4 33.6

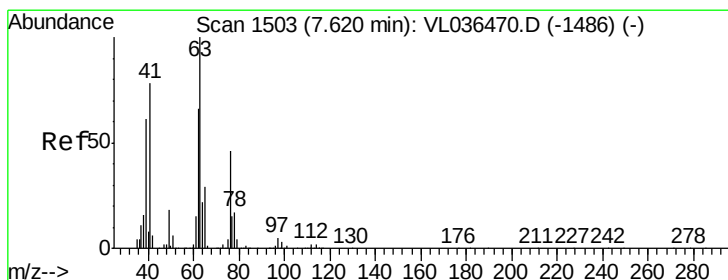
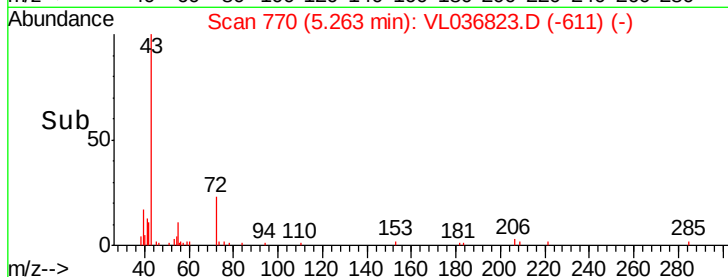
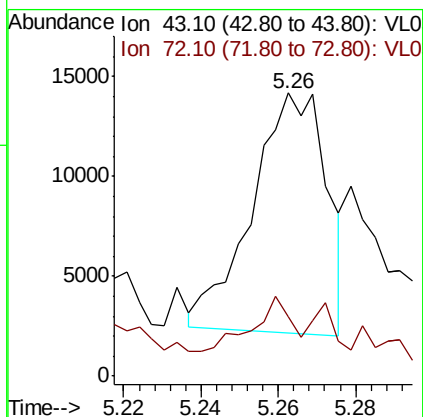
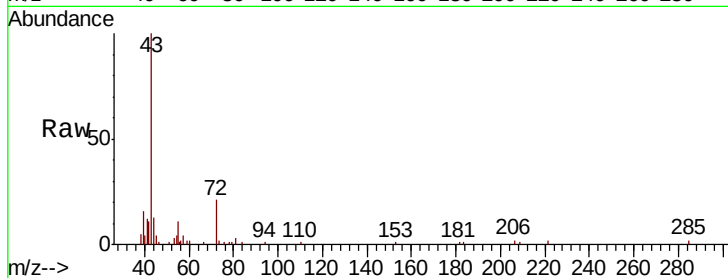
88 19.0 15.4 23.0





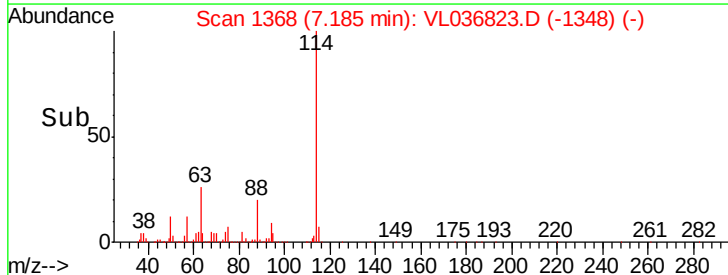
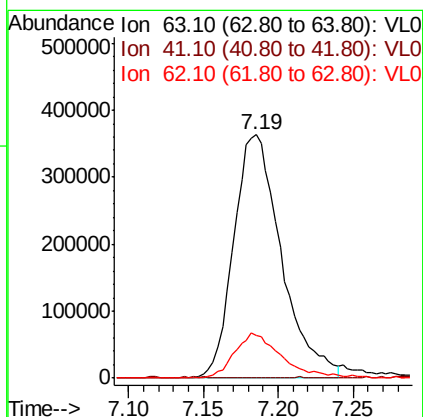
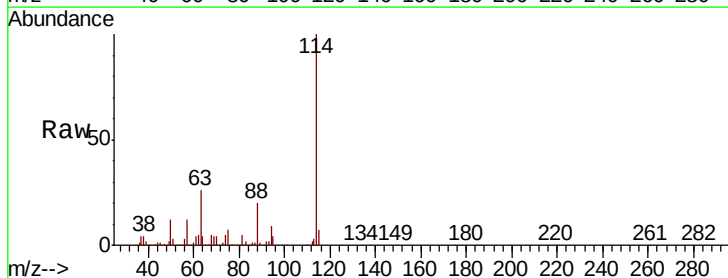
#34
 2-Butanone
 Concen: 0.106 ppbv
 RT: 5.26 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 15:58

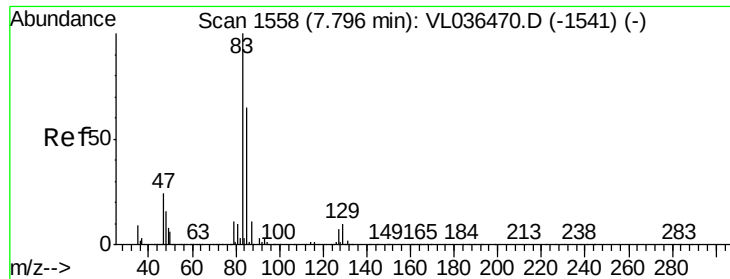
Tot Ion: 43 Resp: 16133
 Ion Ratio Lower Upper
 43 100
 72 61.7 17.0 25.6#



#39
 1,2-Dichloropropane
 Concen: 6.934 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.43 min
 Lab File: VL036823.D
 Acq: 20 Apr 2021 15:58

Tgt Ion: 63 Resp: 806406
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 17.6 52.8 79.2#





#42

Bromodichloromethane

Concen: 0.268 ppbv

RT: 7.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 15:58

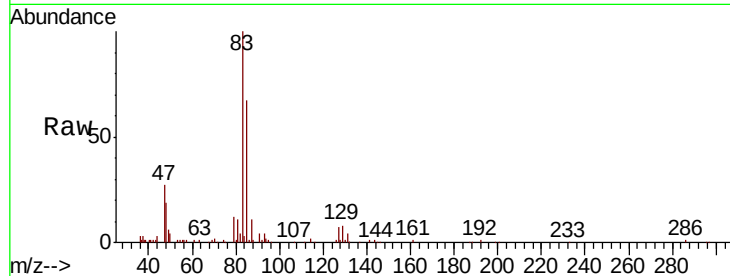
Tot Ion: 83 Resp: 61500

Ion Ratio Lower Upper

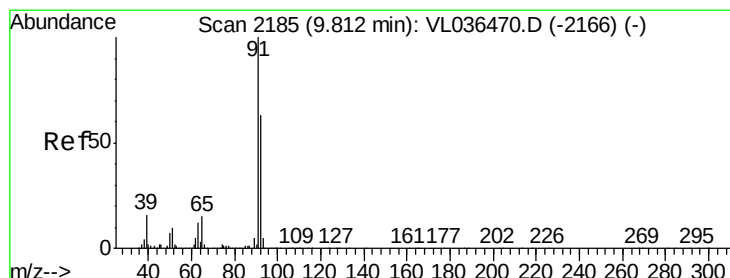
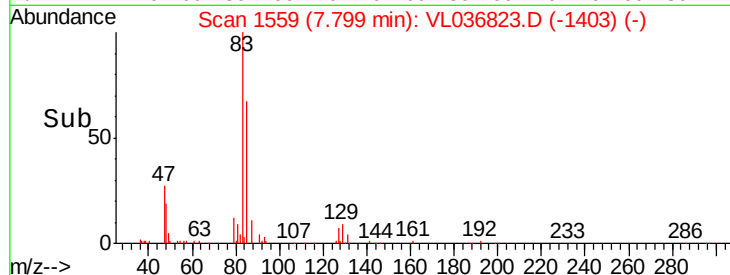
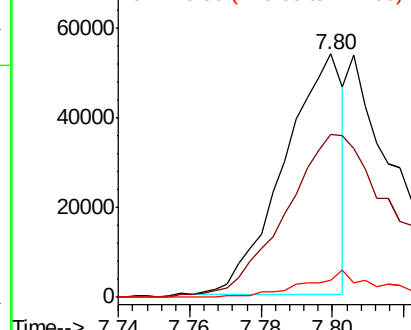
83 100

85 66.0 51.8 77.6

127 7.1 5.8 8.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#53

Toluene

Concen: 0.193 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036823.D

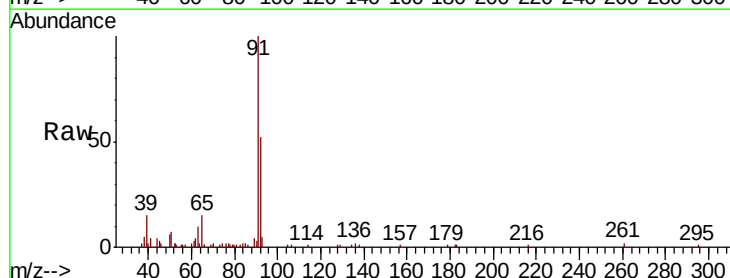
Acq: 20 Apr 2021 15:58

Tgt Ion: 91 Resp: 58775

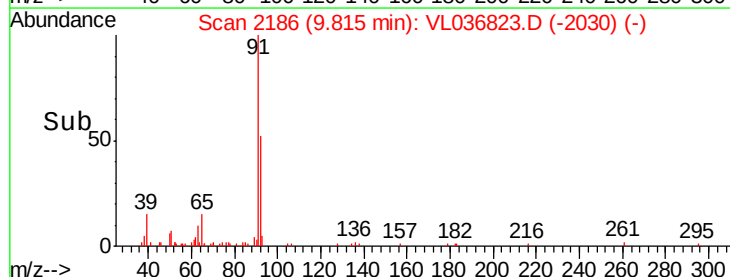
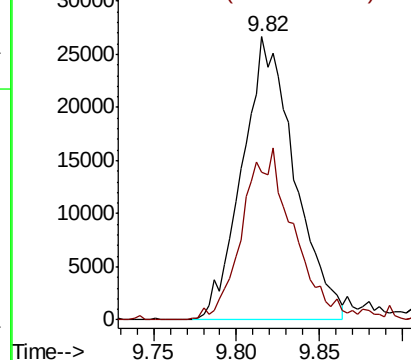
Ion Ratio Lower Upper

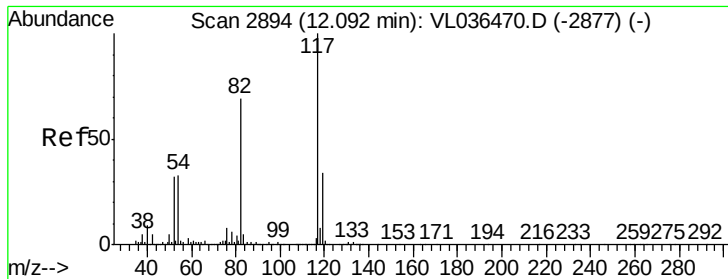
91 100

92 60.9 48.8 73.2



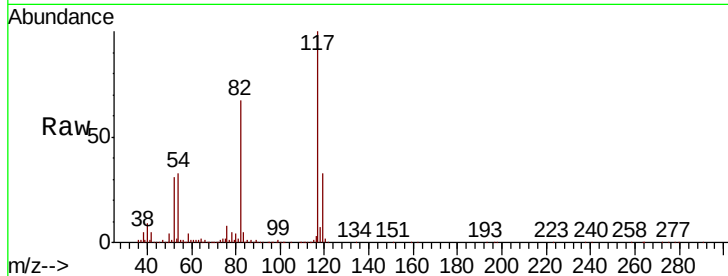
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



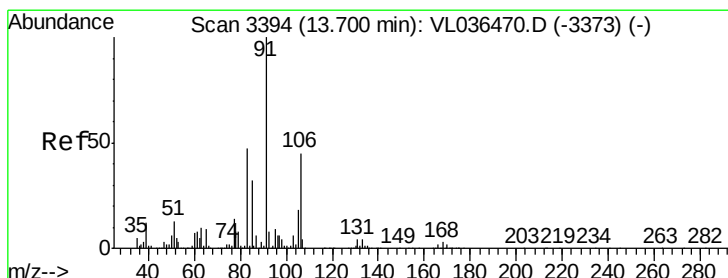
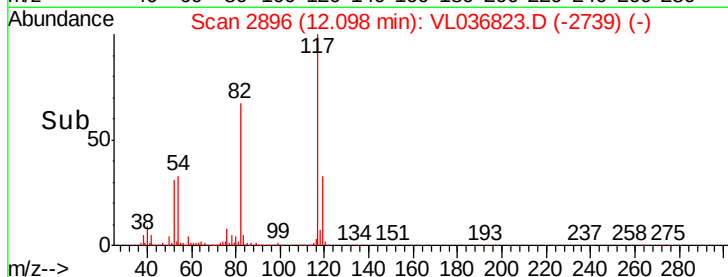
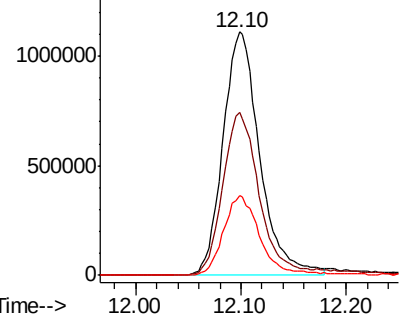


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 15:58

Tot Ion: 117 Resp: 2689873
Ion Ratio Lower Upper
117 100
82 69.7 57.4 86.0
119 33.1 47.4 71.0#

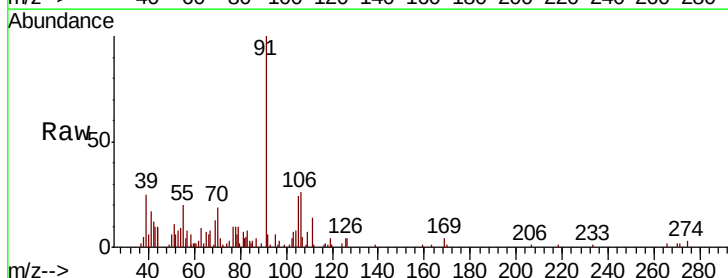


Abundance Ion 117.10 (116.80 to 117.80): V
1500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

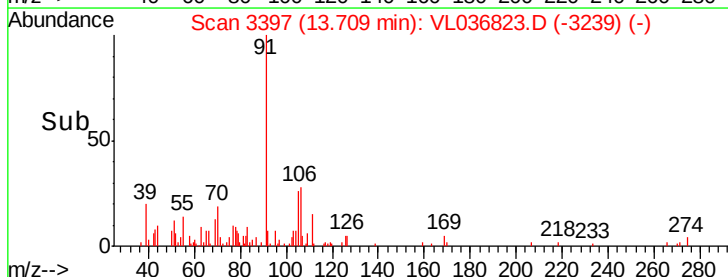
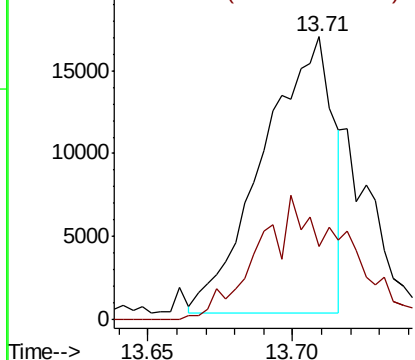


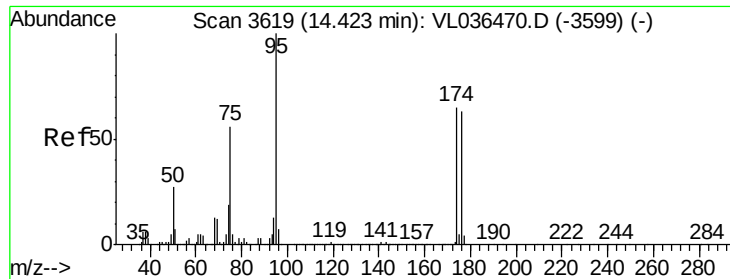
#60
o-Xylene
Concen: 0.084 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.01 min
Lab File: VL036823.D
Acq: 20 Apr 2021 15:58

Tgt Ion: 91 Resp: 27797
Ion Ratio Lower Upper
91 100
106 58.5 22.3 66.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
20000 Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.445 ppbv

RT: 14.43 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 15:58

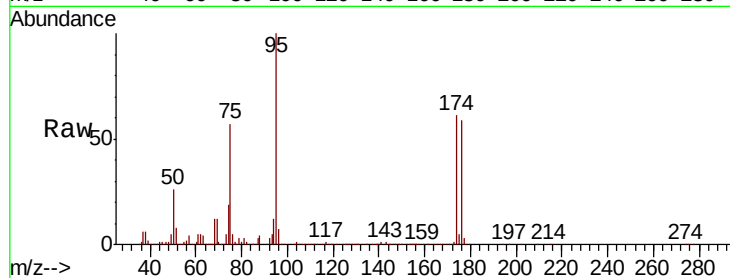
Tot Ion: 95 Resp: 2024787

Ion Ratio Lower Upper

95 100

174 65.5 51.0 76.6

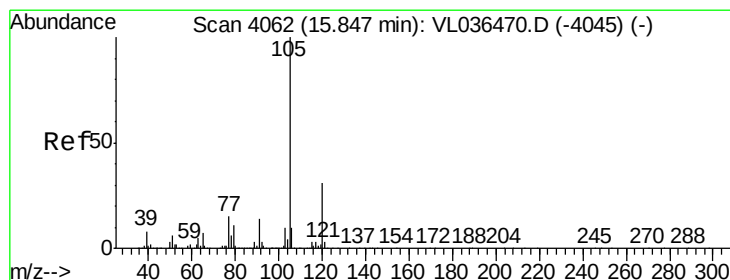
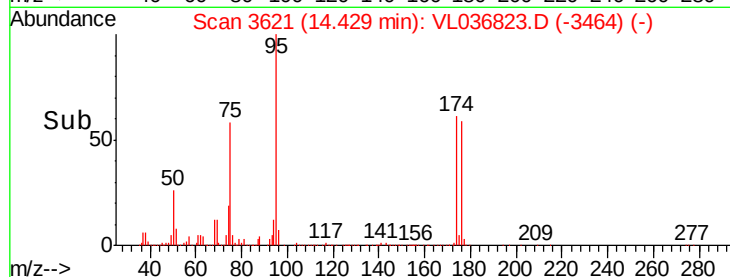
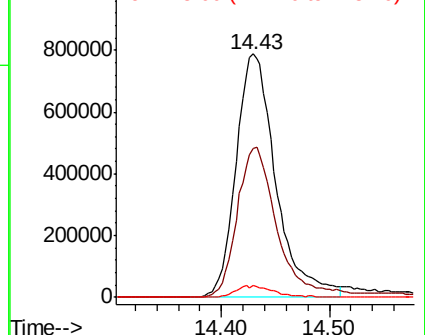
175 4.9 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.034 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VL036823.D

Acq: 20 Apr 2021 15:58

Tgt Ion:105 Resp: 12383

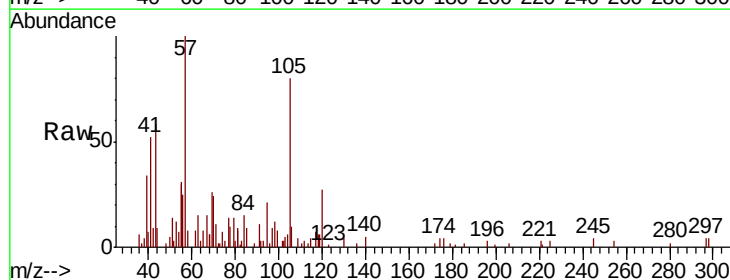
Ion Ratio Lower Upper

105 100

120 0.0 24.0 36.0#

91 0.0 11.0 16.4#

77 26.1 11.7 17.5#

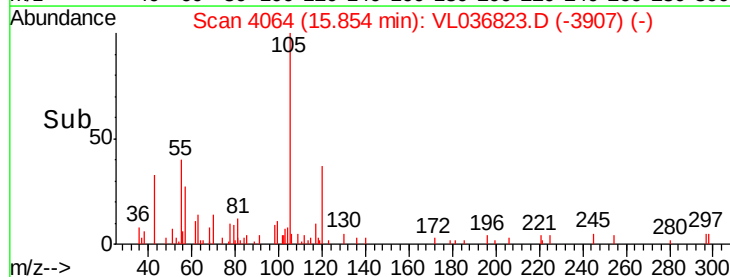
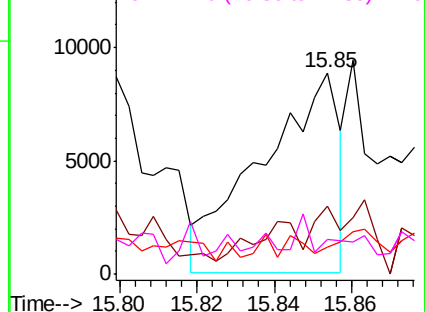


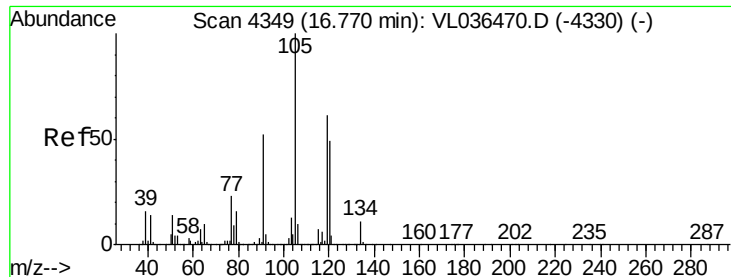
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#74

1,2,4-Trimethylbenzene

Concen: 0.066 ppbv

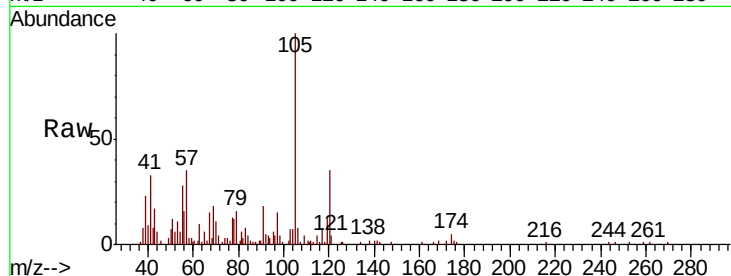
RT: 16.78 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 15:58

Tot Ion:	105	Resp:	24014
Ion Ratio	Lower	Upper	
105	100		
120	31.0	39.2	58.8#
91	20.8	42.6	64.0#
77	9.7	18.6	28.0#



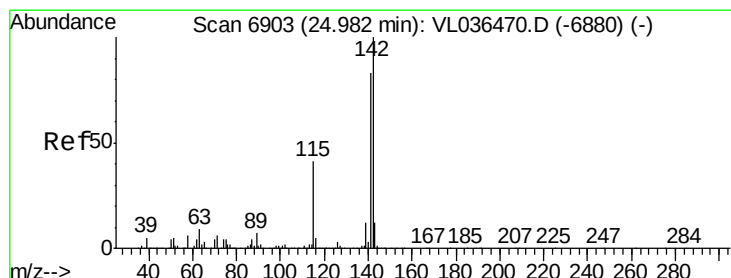
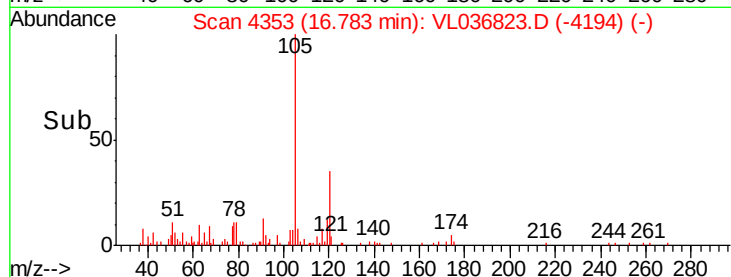
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Time--> 16.76 16.78 16.80



#80

Naphthalene, 2-methyl-

Concen: 0.062 ppbv

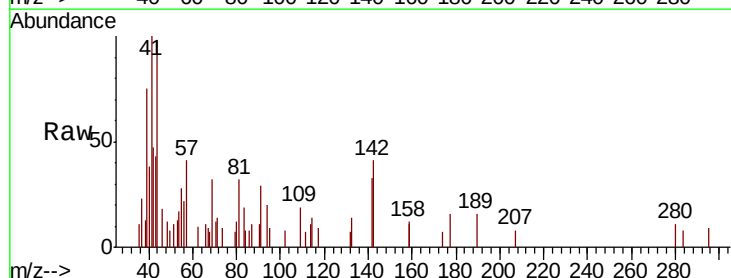
RT: 25.02 min Scan# 6915

Delta R.T. 0.04 min

Lab File: VL036823.D

Acq: 20 Apr 2021 15:58

Tgt Ion:	142	Resp:	2597
Ion Ratio	Lower	Upper	
142	100		
141	73.4	67.8	101.8
115	57.3	34.0	51.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

Time--> 24.95 25.00

