

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036369.D
 Acq On : 25 Feb 2021 3:24
 Operator : SY/AP
 Sample : M1463-10DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-3DL

Quant Time: Feb 25 05:22:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1620264	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3644248	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3295334	10.00	ppbv	0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.43	95	2736826	10.09	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%	

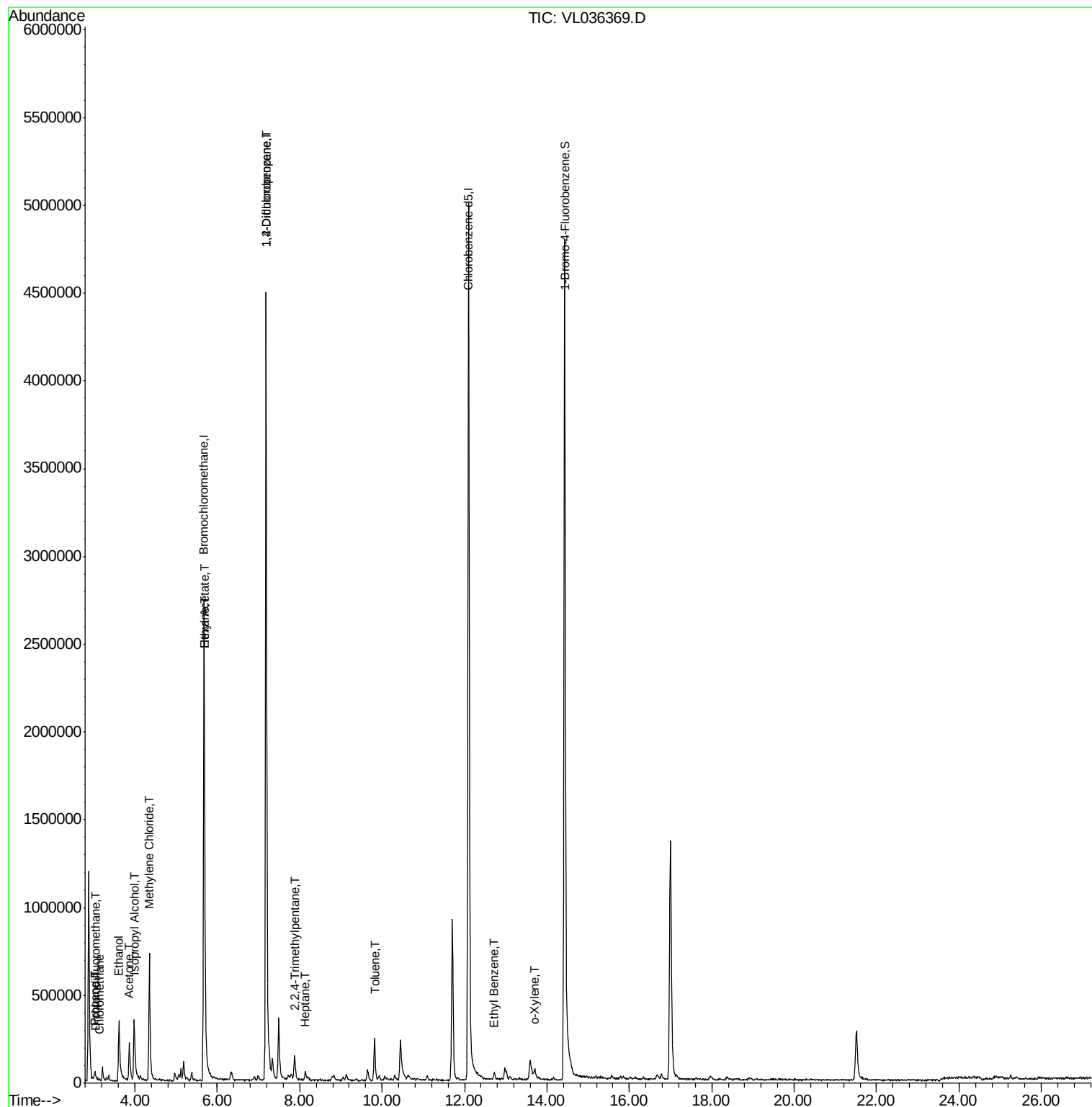
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	8505	0.035	ppbv	99
4) Chloromethane	3.15	50	5610	0.058	ppbv #	52
9) Propene	3.02	41	8070	0.108	ppbv #	15
10) Heptane	8.14	43	8689	0.039	ppbv #	28
13) Ethanol	3.61	45	473198	33.564	ppbv	97
15) Acetone	3.86	43	264045	1.333	ppbv #	85
19) Isopropyl Alcohol	3.98	45	429345	3.913	ppbv #	95
20) Methylene Chloride	4.35	84	287110	4.493	ppbv	94
25) Ethyl Acetate	5.69	43	41649	0.109	ppbv #	86
26) Hexane	5.69	57	91416	0.582	ppbv #	41
39) 1,2-Dichloropropane	7.19	63	1023351	8.138	ppbv #	23
44) 2,2,4-Trimethylpentane	7.87	57	48567	0.086	ppbv #	11
53) Toluene	9.82	91	153046	0.456	ppbv	96
58) Ethyl Benzene	12.72	91	28528	0.063	ppbv	98
60) o-Xylene	13.71	91	17239	0.045	ppbv #	32

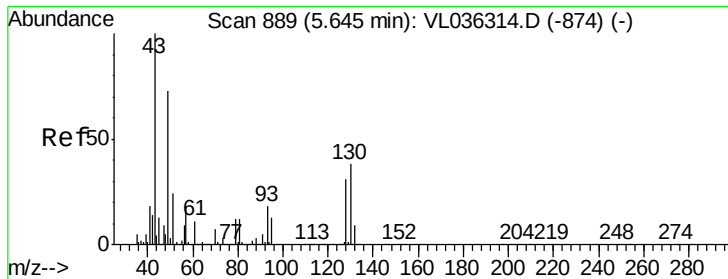
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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NS-3DL

Quant Time: Feb 25 05:22:18 2021
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QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.03 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

NS-3DL

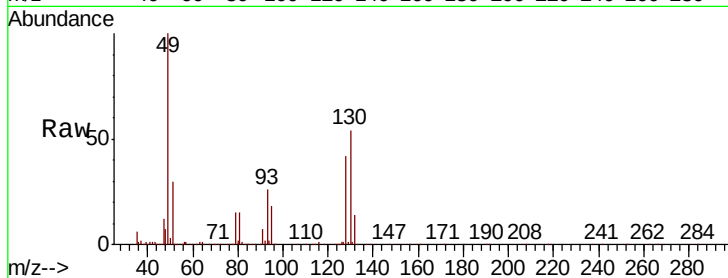
Tot Ion: 49 Resp: 1620264

Ion Ratio Lower Upper

49 100

128 43.4 20.8 62.5

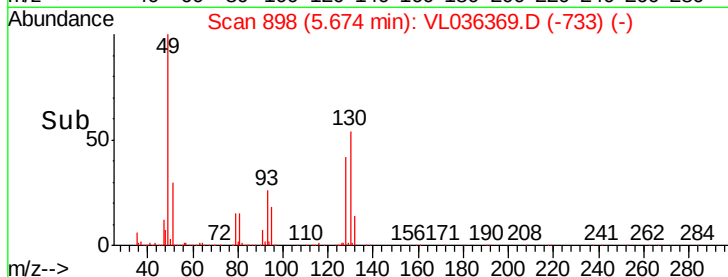
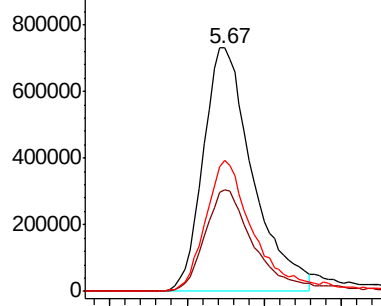
130 54.7 26.7 80.1



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: 0.035 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.03 min

Lab File: VL036369.D

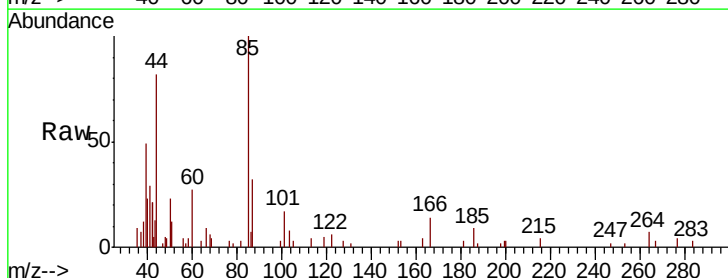
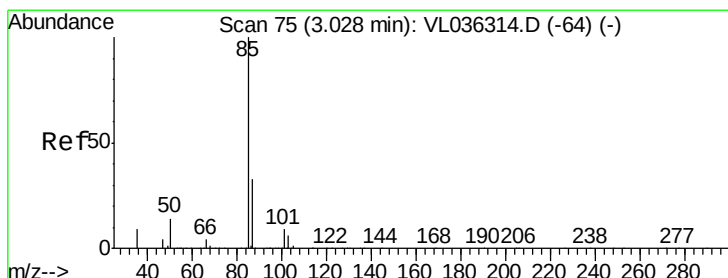
Acq: 25 Feb 2021 3:24

Tgt Ion: 85 Resp: 8505

Ion Ratio Lower Upper

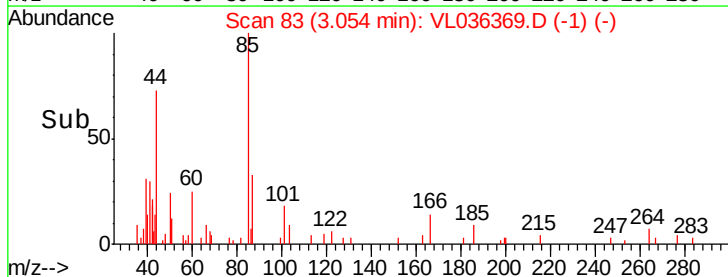
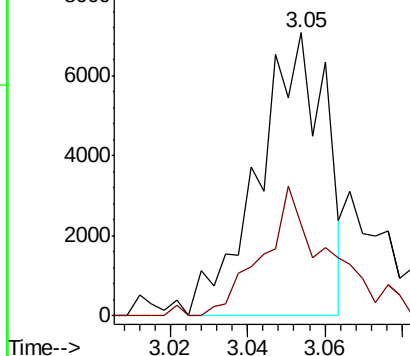
85 100

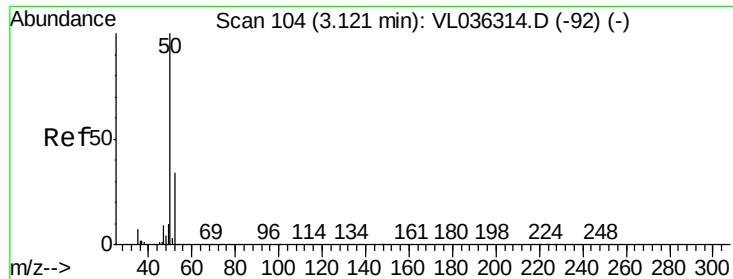
87 32.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.03 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

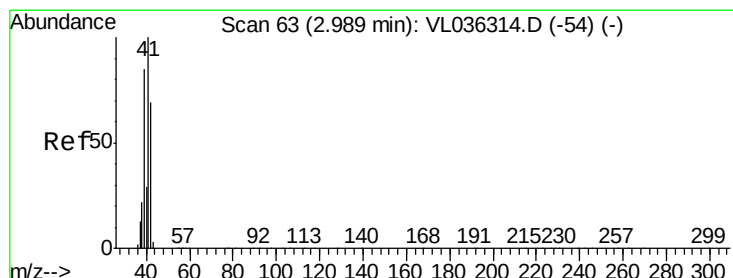
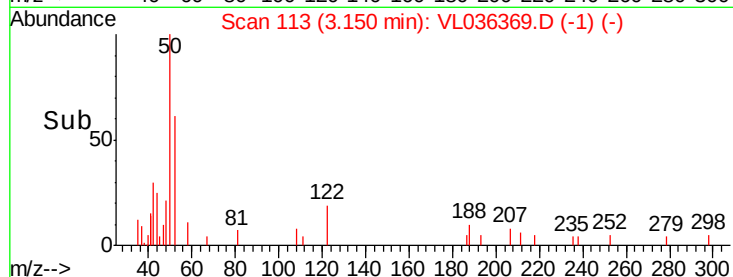
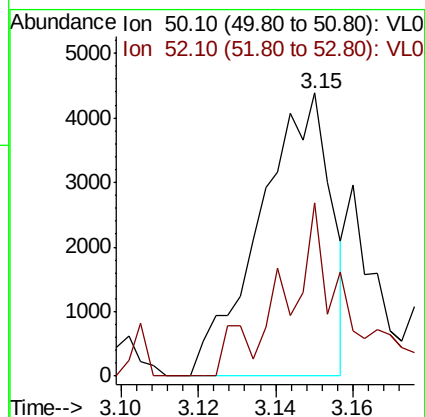
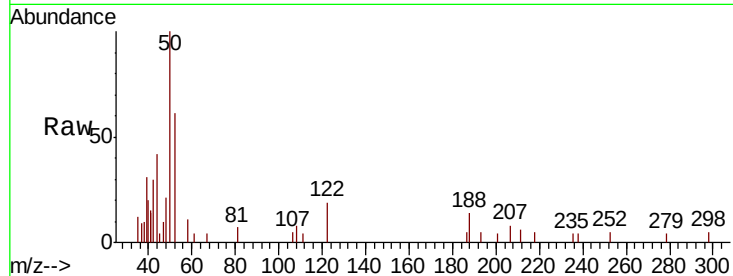
NS-3DL

Tot Ion: 50 Resp: 5610

Ion Ratio Lower Upper

50 100

52 61.1 27.0 40.4#



#9

Propene

Concen: 0.108 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.03 min

Lab File: VL036369.D

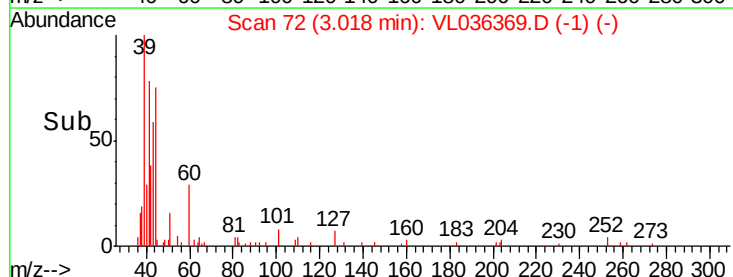
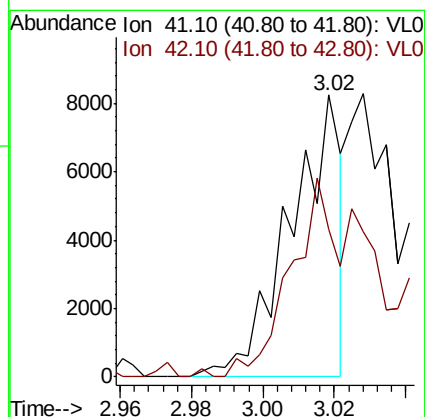
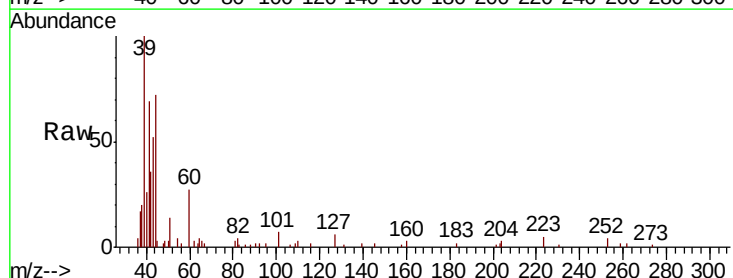
Acq: 25 Feb 2021 3:24

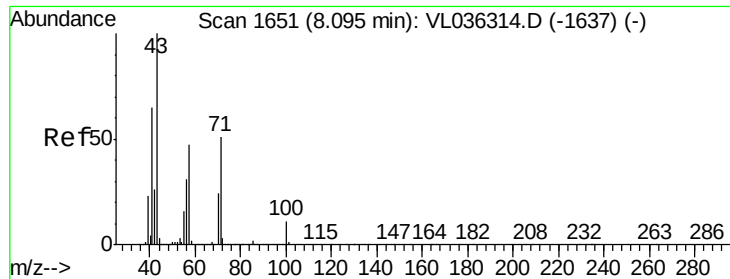
Tgt Ion: 41 Resp: 8070

Ion Ratio Lower Upper

41 100

42 140.2 56.2 84.2#





#10

Heptane

Concen: 0.039 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.05 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

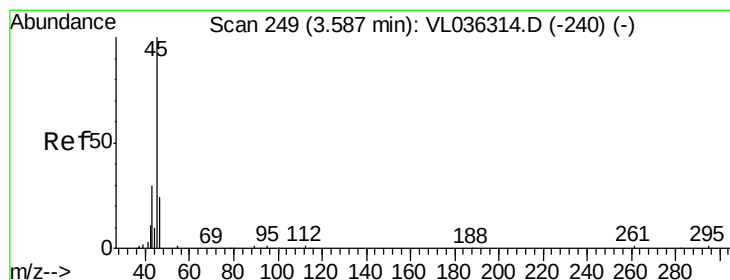
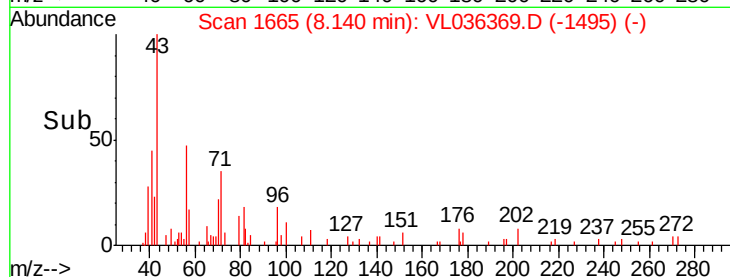
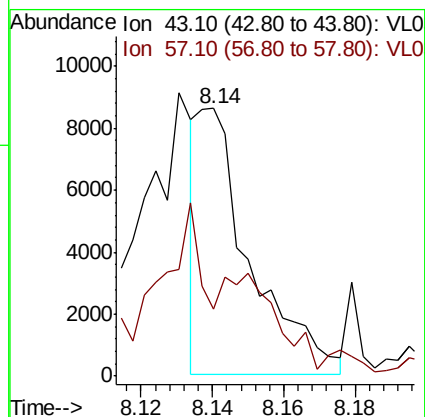
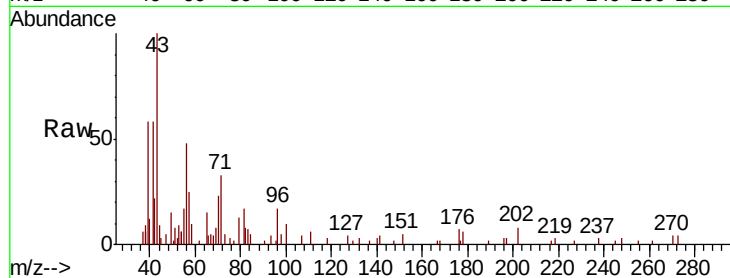
NS-3DL

Tot Ion: 43 Resp: 8689

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2#



#13

Ethanol

Concen: 33.564 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.03 min

Lab File: VL036369.D

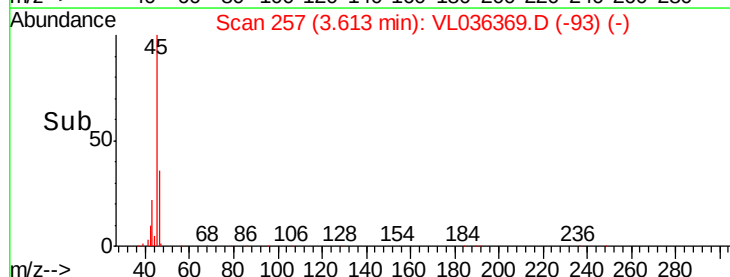
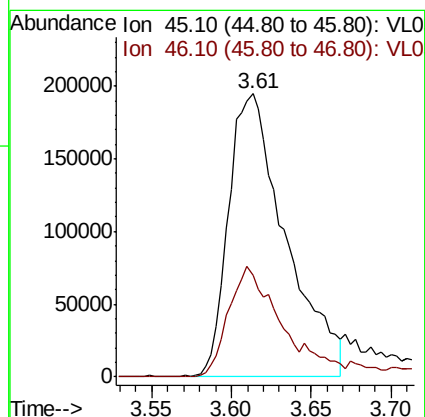
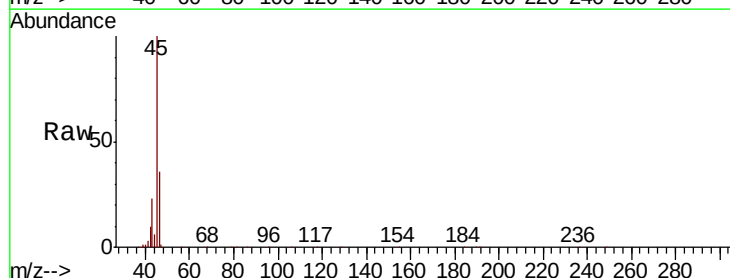
Acq: 25 Feb 2021 3:24

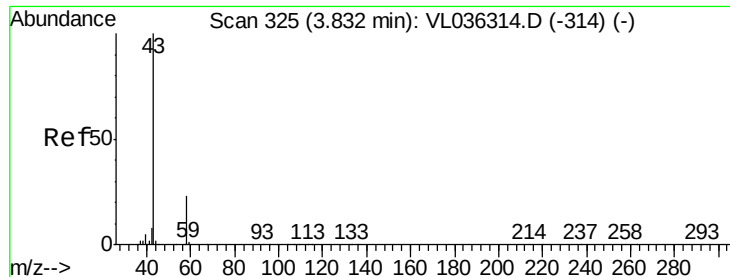
Tgt Ion: 45 Resp: 473198

Ion Ratio Lower Upper

45 100

46 42.4 17.7 70.7





#15

Acetone

Concen: 1.333 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.03 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

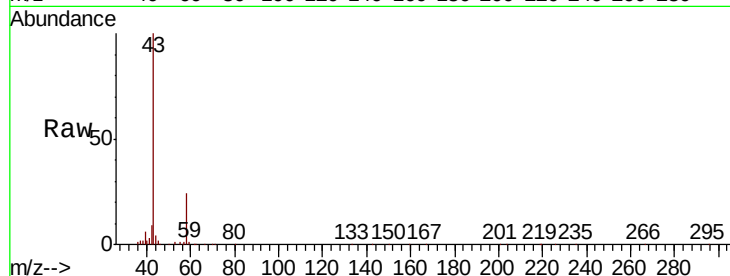
NS-3DL

Tot Ion: 43 Resp: 264045

Ion Ratio Lower Upper

43 100

58 33.0 20.3 30.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

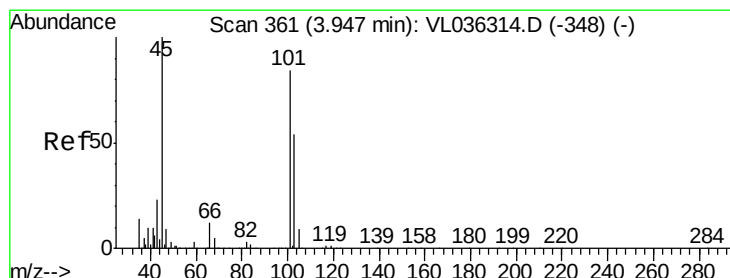
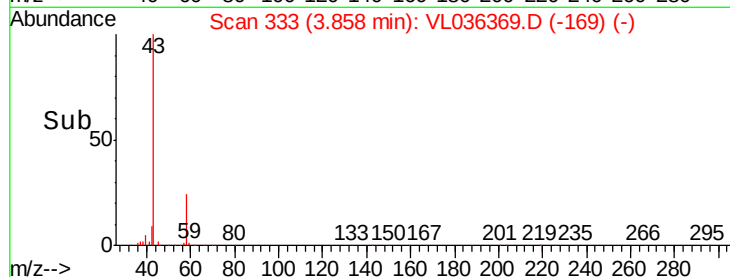
150000

100000

50000

0

Time-->



#19

Isopropyl Alcohol

Concen: 3.913 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.03 min

Lab File: VL036369.D

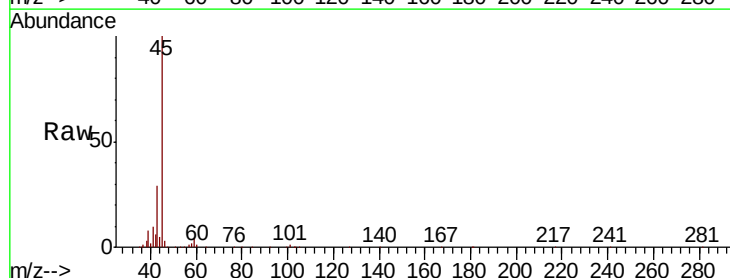
Acq: 25 Feb 2021 3:24

Tgt Ion: 45 Resp: 429345

Ion Ratio Lower Upper

45 100

58 4.1 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

200000

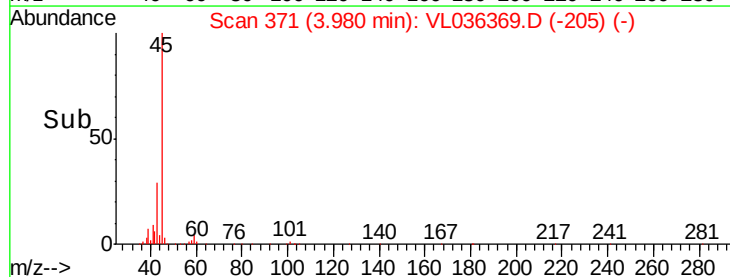
150000

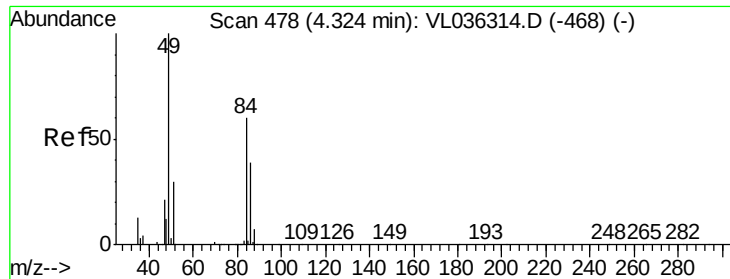
100000

50000

0

Time-->

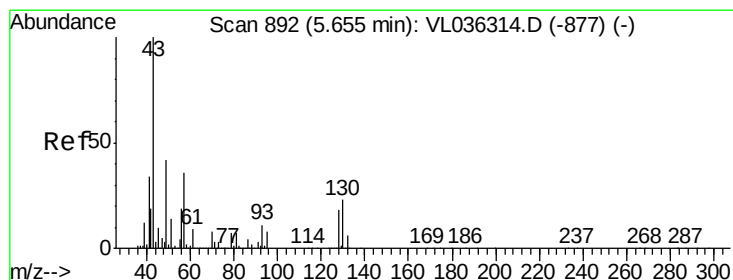
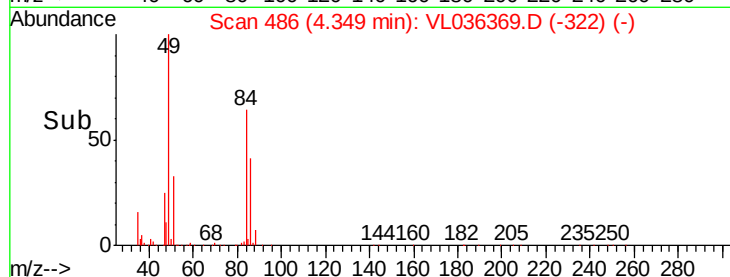
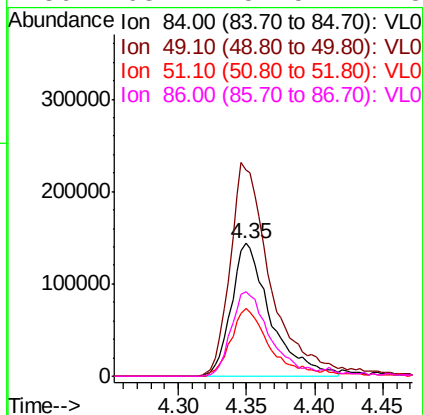
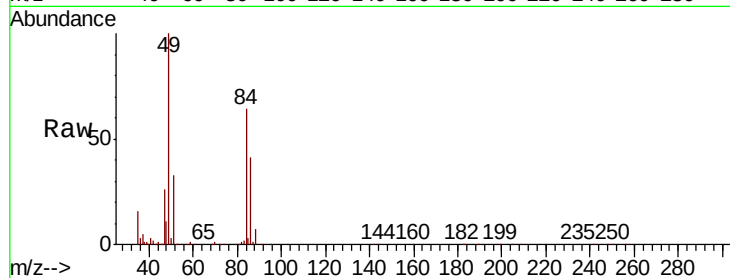




#20
Methylene Chloride
Concen: 4.493 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.03 min
Lab File: VL036369.D
Acq: 25 Feb 2021 3:24

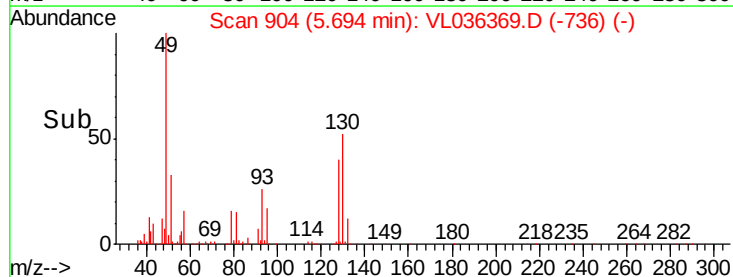
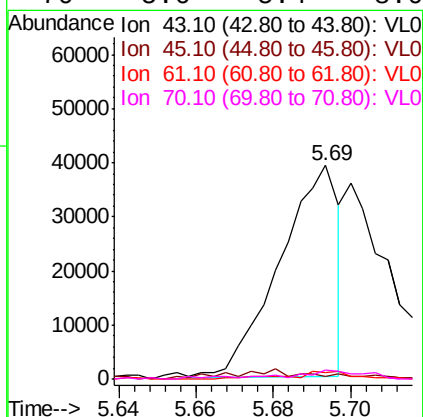
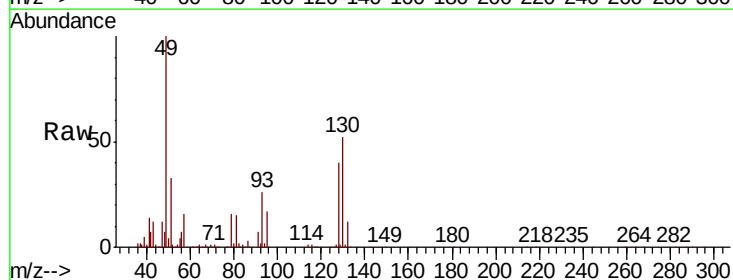
Instrument :
MSVOA_L
ClientSampleId :
NS-3DL

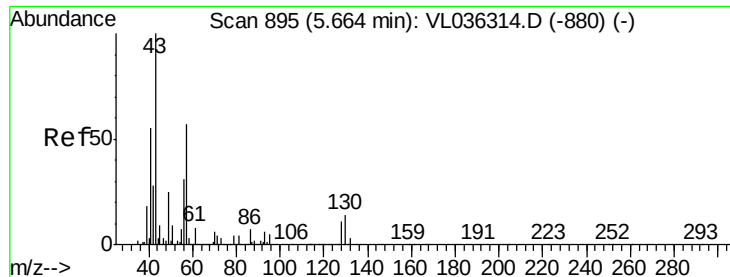
Tot Ion:	84	Resp:	287110
Ion	Ratio	Lower	Upper
84	100		
49	155.6	133.8	200.8
51	50.6	41.4	62.0
86	63.7	51.5	77.3



#25
Ethyl Acetate
Concen: 0.109 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.04 min
Lab File: VL036369.D
Acq: 25 Feb 2021 3:24

Tgt Ion:	43	Resp:	41649
Ion	Ratio	Lower	Upper
43	100		
45	6.0	8.3	12.5#
61	0.0	7.3	10.9#
70	5.6	5.4	8.0





#26

Hexane

Concen: 0.582 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.03 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampled :

NS-3DL

Tot Ion: 57 Resp: 91416

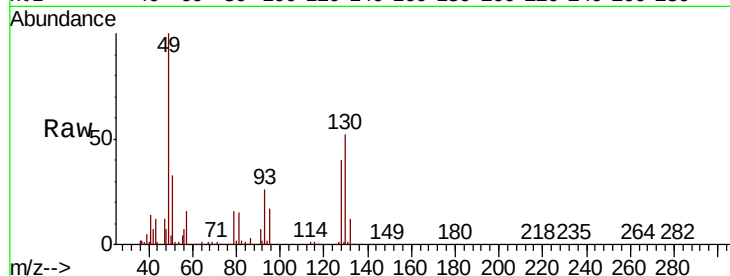
Ion Ratio Lower Upper

57 100

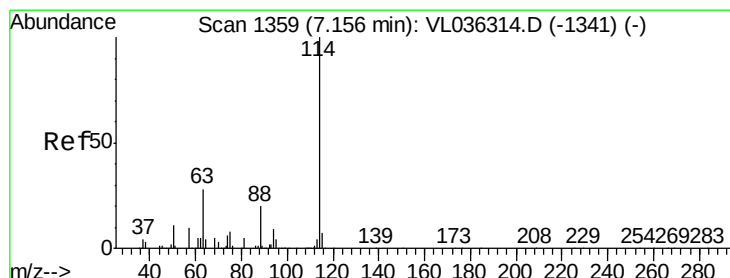
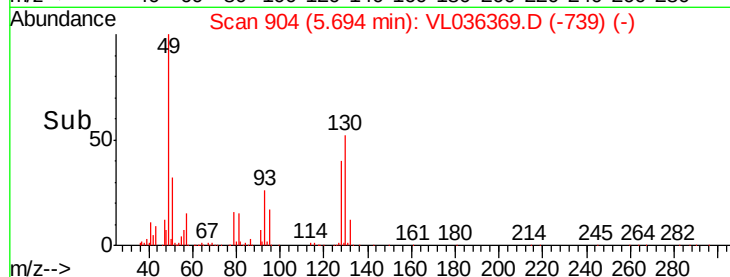
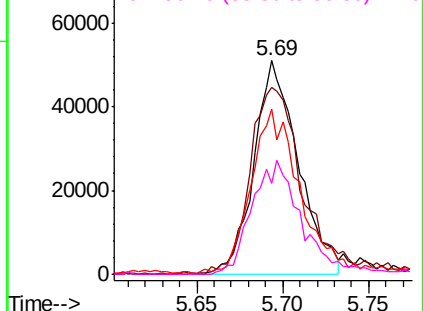
41 103.5 81.7 122.5

43 85.8 199.1 298.7#

56 60.2 44.0 66.0



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. 0.03 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

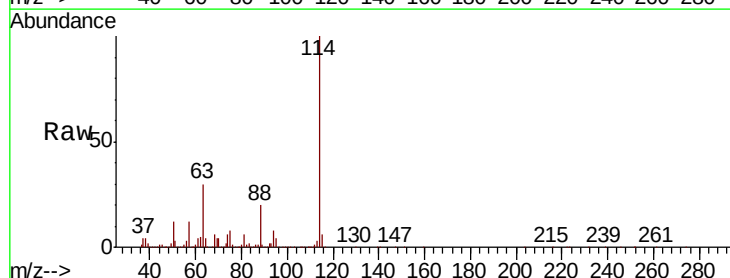
Tgt Ion: 114 Resp: 3644248

Ion Ratio Lower Upper

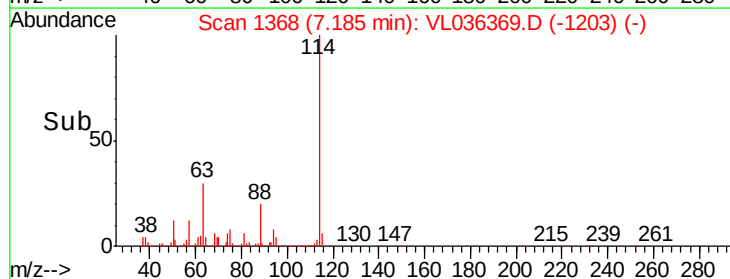
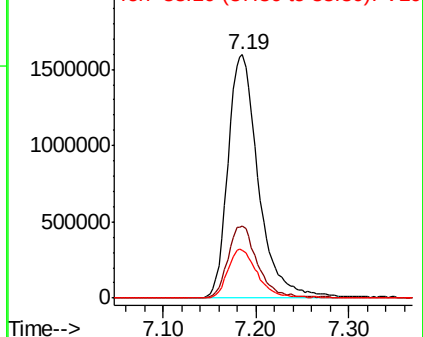
114 100

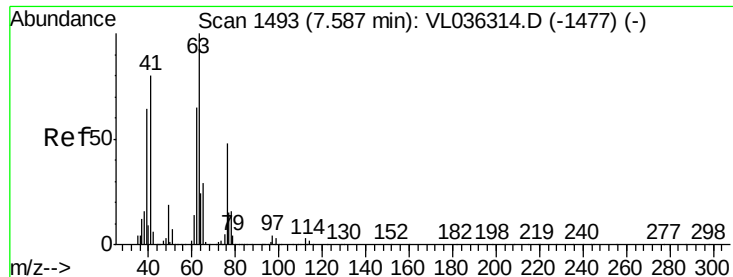
63 29.4 24.1 36.1

88 19.9 16.0 24.0



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

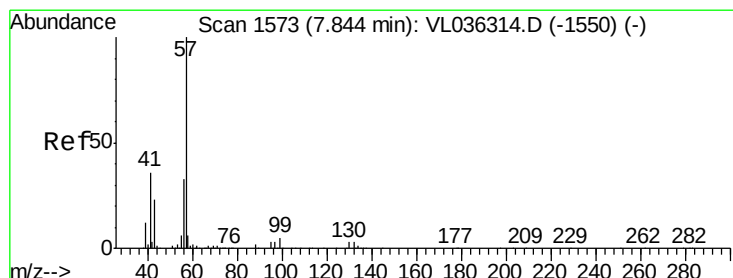
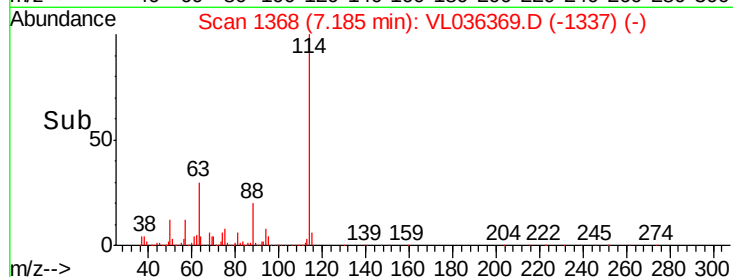
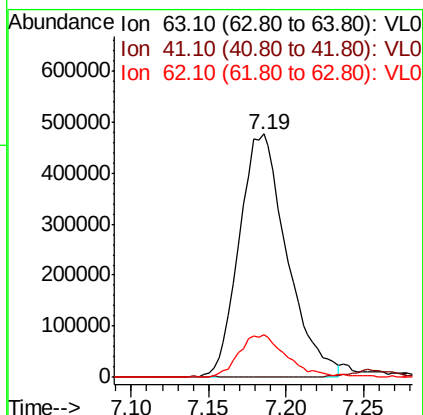
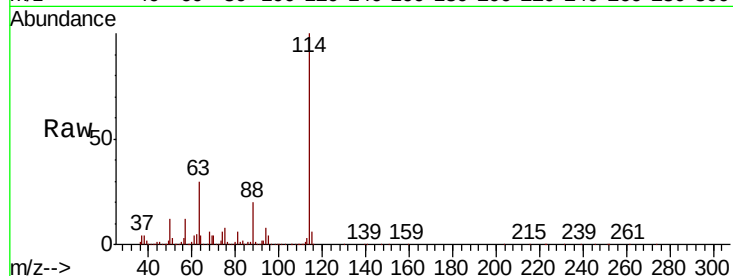




#39
 1,2-Dichloropropane
 Concen: 8.138 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.40 min
 Lab File: VL036369.D
 Acq: 25 Feb 2021 3:24

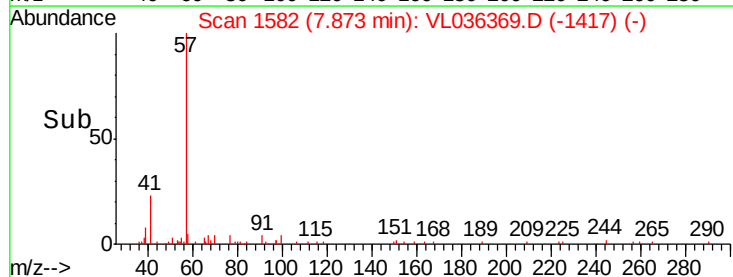
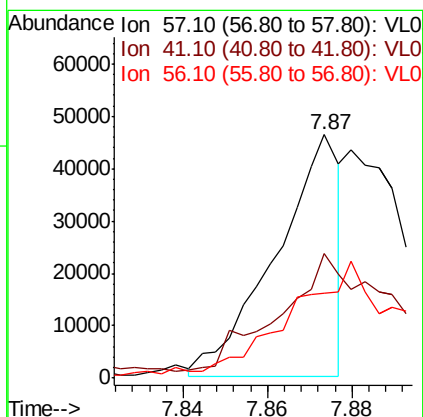
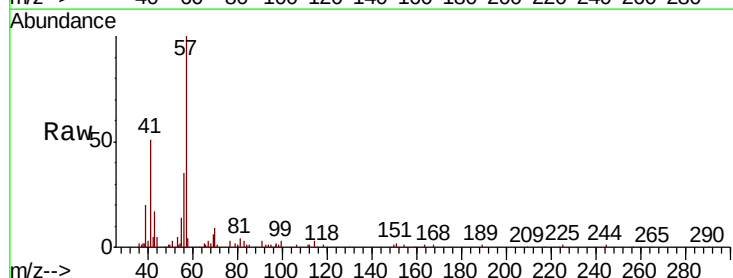
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-3DL

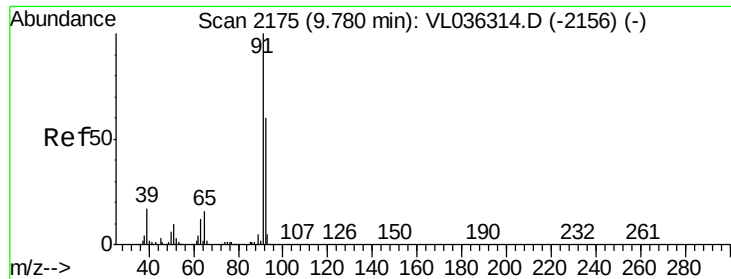
Tot Ion: 63 Resp: 1023351
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.8 95.6#
 62 17.3 52.3 78.5#



#44
 2,2,4-Trimethylpentane
 Concen: 0.086 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.03 min
 Lab File: VL036369.D
 Acq: 25 Feb 2021 3:24

Tgt Ion: 57 Resp: 48567
 Ion Ratio Lower Upper
 57 100
 41 104.9 28.8 43.2#
 56 0.0 25.8 38.6#





#53

Toluene

Concen: 0.456 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

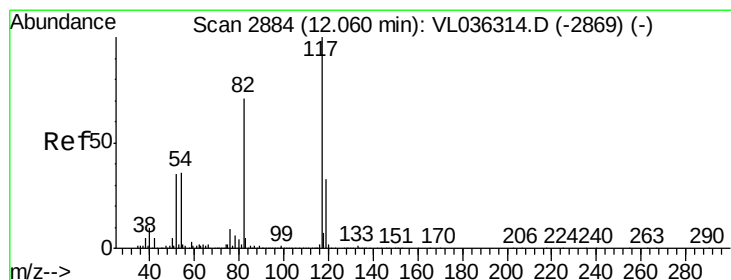
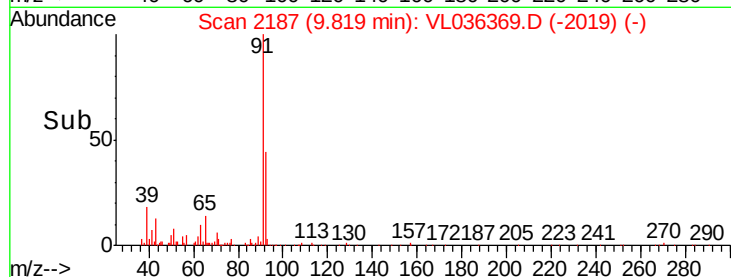
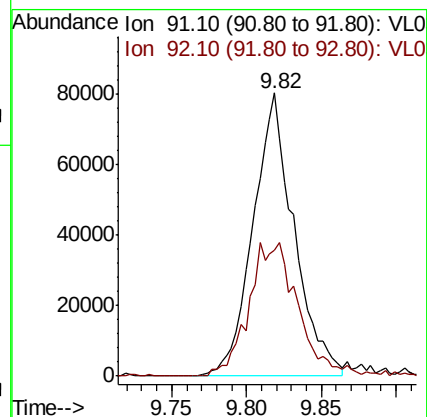
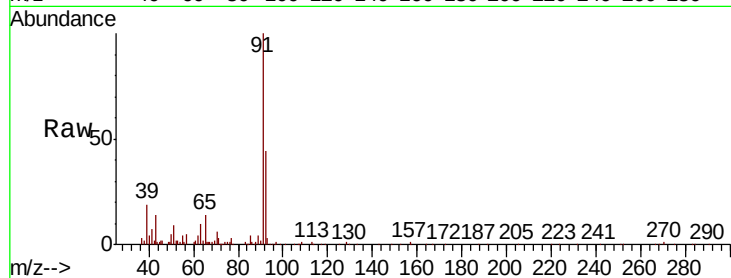
NS-3DL

Tot Ion: 91 Resp: 153046

Ion Ratio Lower Upper

91 100

92 57.6 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.04 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

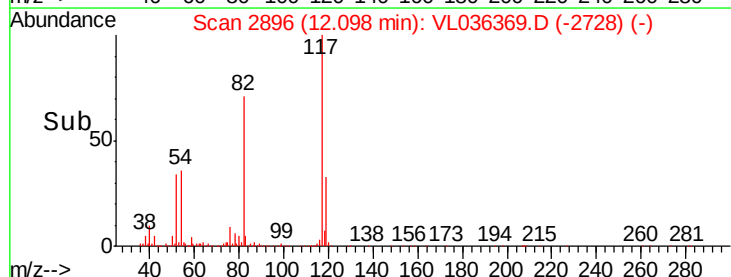
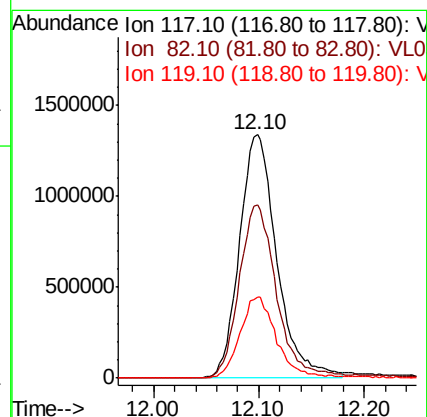
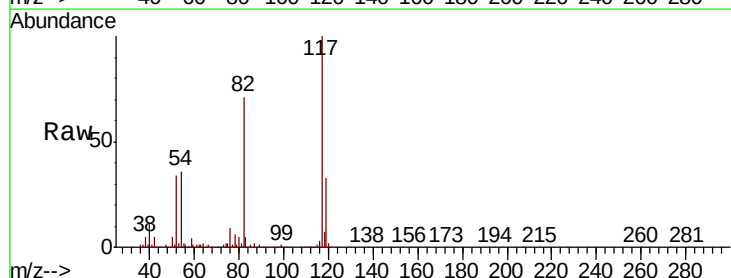
Tgt Ion: 117 Resp: 3295334

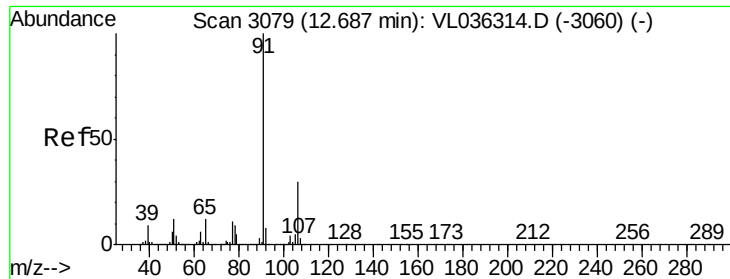
Ion Ratio Lower Upper

117 100

82 73.1 59.1 88.7

119 33.5 46.3 69.5#





#58

Ethyl Benzene

Concen: 0.063 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. 0.04 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

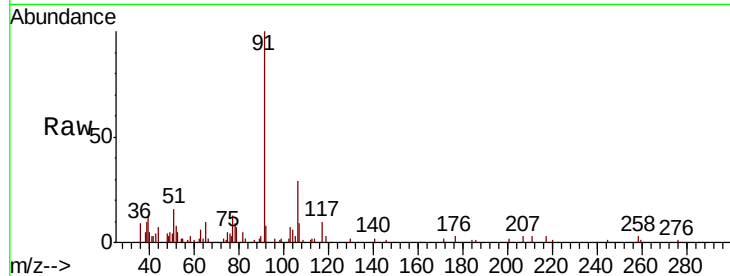
NS-3DL

Tot Ion: 91 Resp: 28528

Ion Ratio Lower Upper

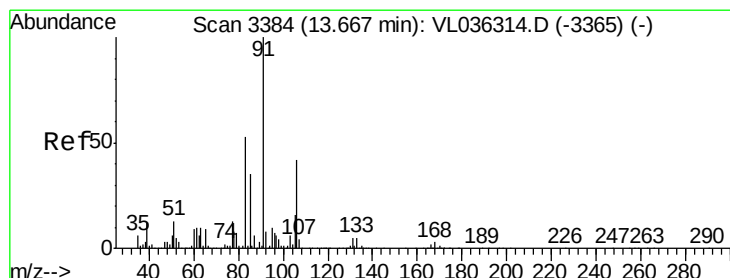
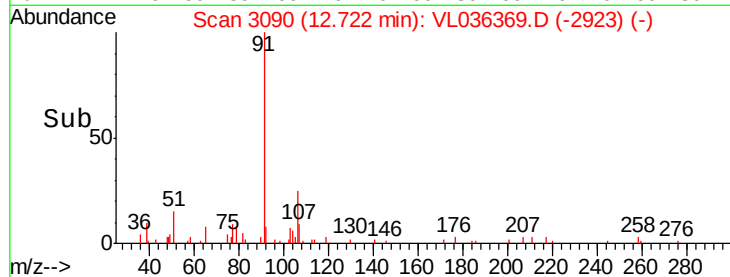
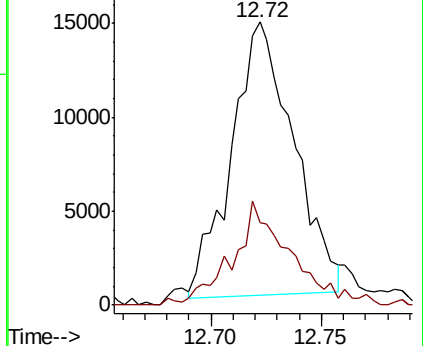
91 100

106 28.4 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.045 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. 0.04 min

Lab File: VL036369.D

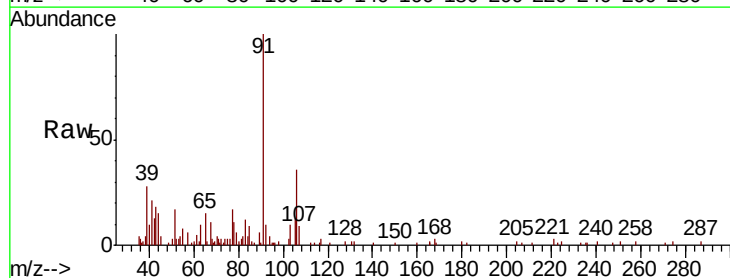
Acq: 25 Feb 2021 3:24

Tgt Ion: 91 Resp: 17239

Ion Ratio Lower Upper

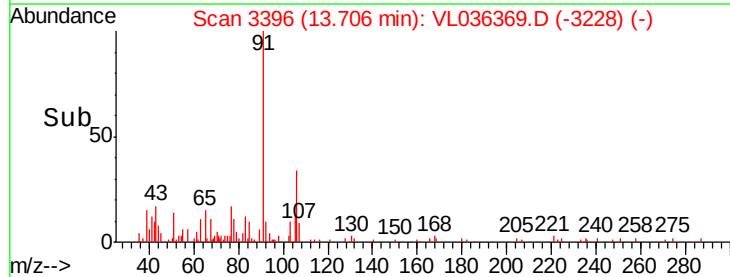
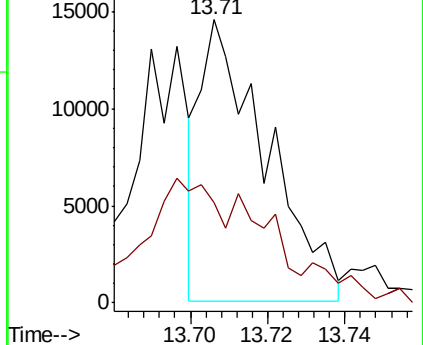
91 100

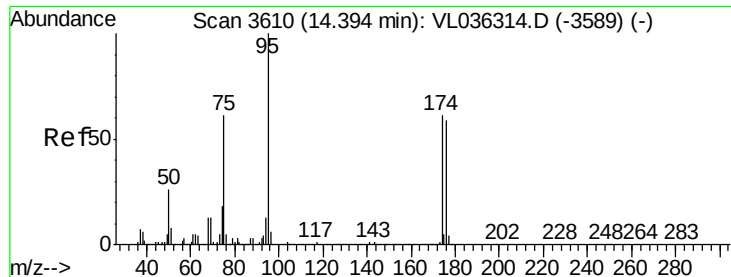
106 0.0 22.0 66.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.094 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.04 min

Lab File: VL036369.D

Acq: 25 Feb 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

NS-3DL

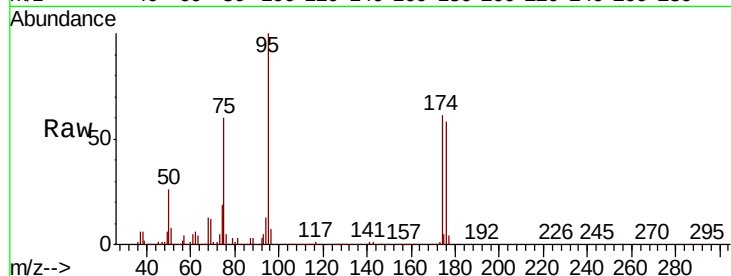
Tot Ion: 95 Resp: 2736826

Ion Ratio Lower Upper

95 100

174 62.6 49.8 74.6

175 4.5 3.7 5.5



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

