

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036349.D
 Acq On : 24 Feb 2021 13:54
 Operator : SY/AP
 Sample : M1463-01 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-8DL

Quant Time: Feb 25 05:17:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1673709	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	3713461	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3378427	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1278895	4.60	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	46.00%#

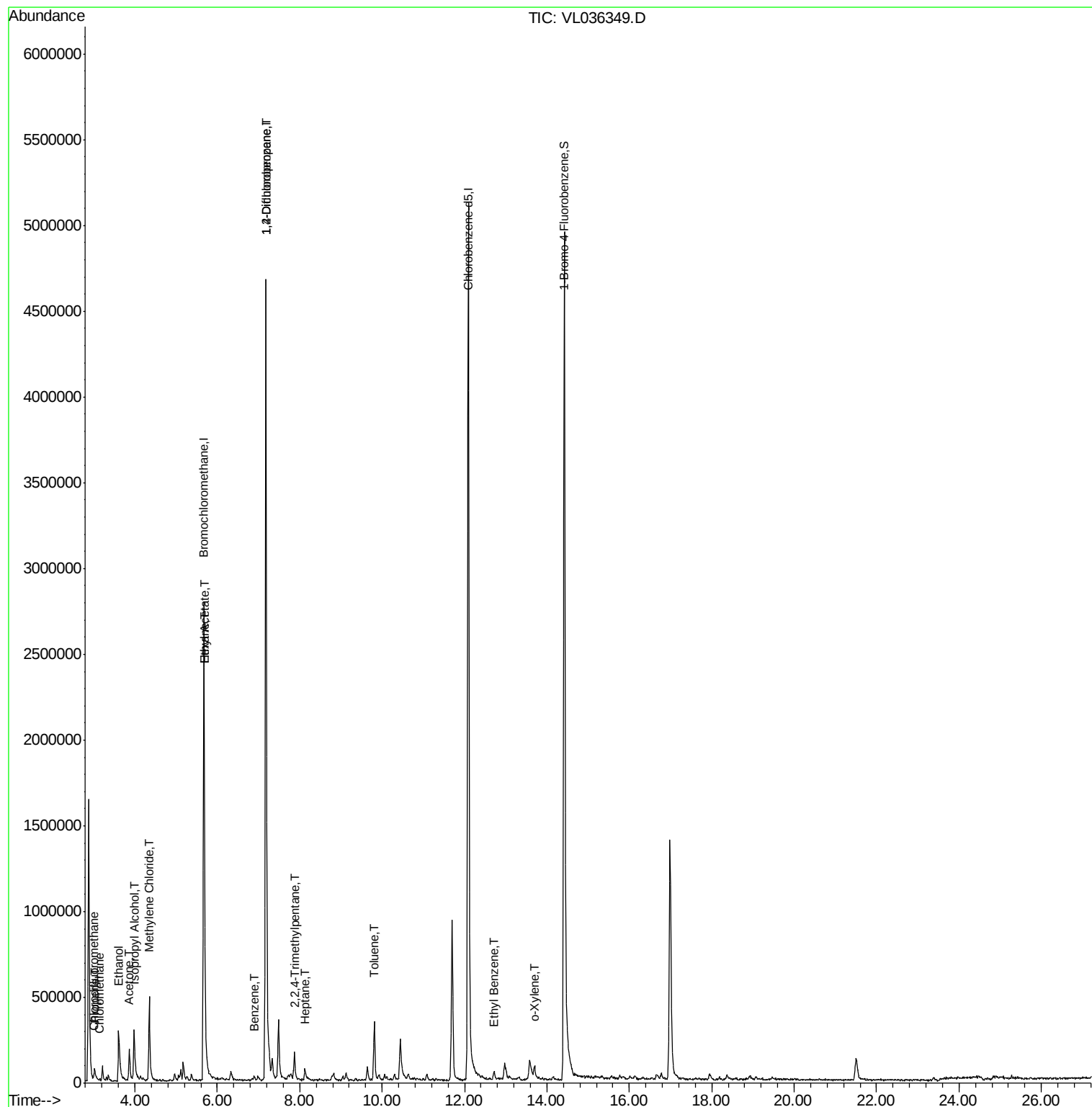
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	12717	0.061	ppbv #	86
4) Chloromethane	3.15	50	6627	0.066	ppbv	90
9) Propene	3.02	41	23605	0.304	ppbv	99
10) Heptane	8.13	43	12112	0.053	ppbv #	27
13) Ethanol	3.61	45	392039	26.920	ppbv	95
15) Acetone	3.86	43	226525	1.107	ppbv #	82
19) Isopropyl Alcohol	3.98	45	407895	3.599	ppbv #	93
20) Methylene Chloride	4.35	84	176209	2.670	ppbv	93
25) Ethyl Acetate	5.69	43	55287	0.140	ppbv #	88
26) Hexane	5.69	57	56364	0.347	ppbv #	43
36) Benzene	6.89	78	12447	0.039	ppbv #	77
39) 1,2-Dichloropropane	7.18	63	1044165	8.149	ppbv #	23
44) 2,2,4-Trimethylpentane	7.87	57	40094	0.070	ppbv #	1
53) Toluene	9.81	91	227348	0.665	ppbv	97
58) Ethyl Benzene	12.72	91	28241	0.061	ppbv #	78
60) o-Xylene	13.70	91	17305	0.045	ppbv #	1

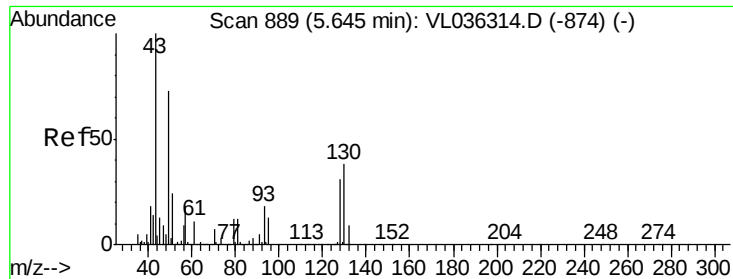
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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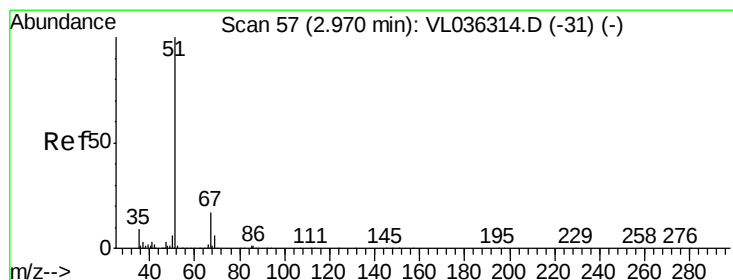
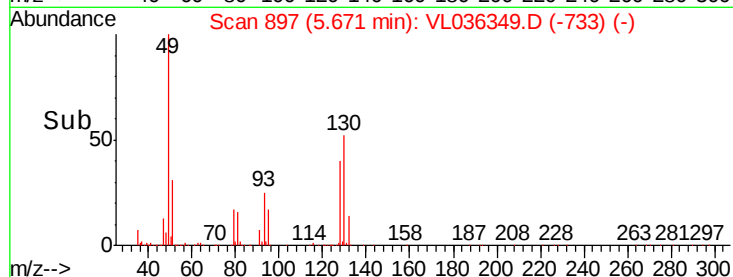
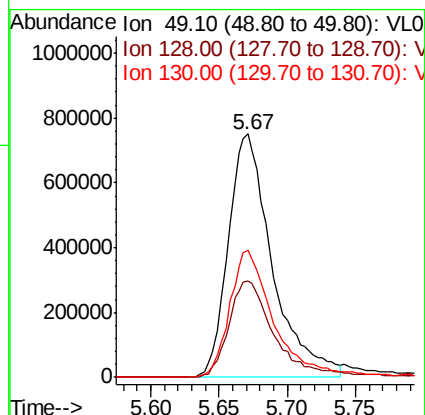
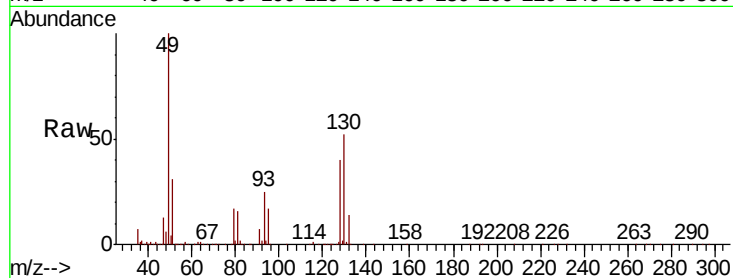




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.03 min
Lab File: VL036349.D
Acq: 24 Feb 2021 13:54

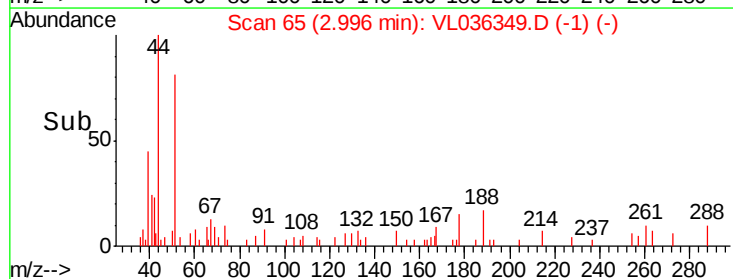
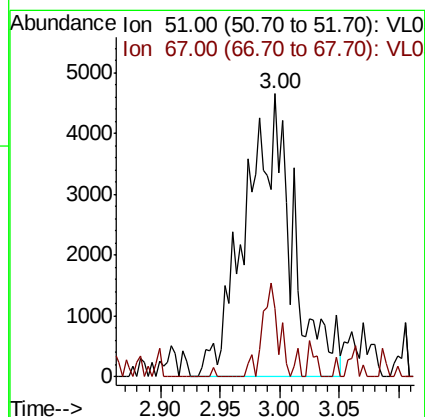
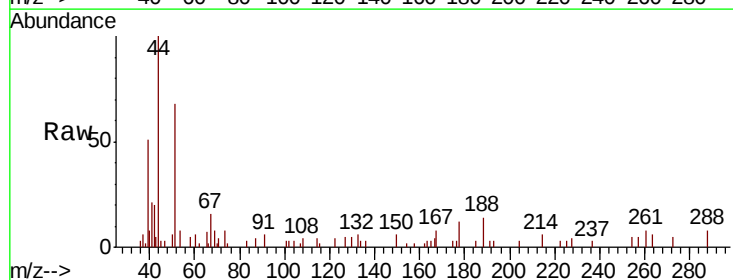
Instrument :
MSVOA_L
ClientSampleId :
NS-8DL

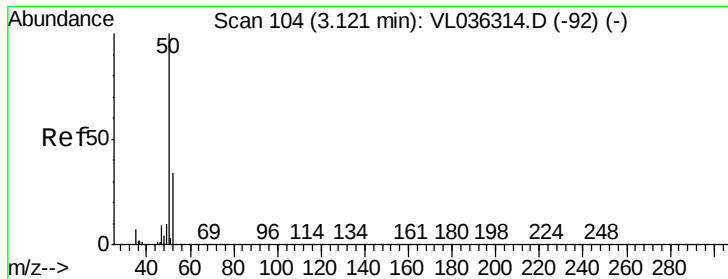
Tot Ion: 49 Resp: 1673709
Ion Ratio Lower Upper
49 100
128 42.1 20.8 62.5
130 54.4 26.7 80.1



#3
Chlorodifluoromethane
Concen: 0.061 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.03 min
Lab File: VL036349.D
Acq: 24 Feb 2021 13:54

Tgt Ion: 51 Resp: 12717
Ion Ratio Lower Upper
51 100
67 12.2 14.7 22.1#





#4

Chloromethane

Concen: 0.066 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.03 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

Instrument :

MSVOA_L

ClientSampleID :

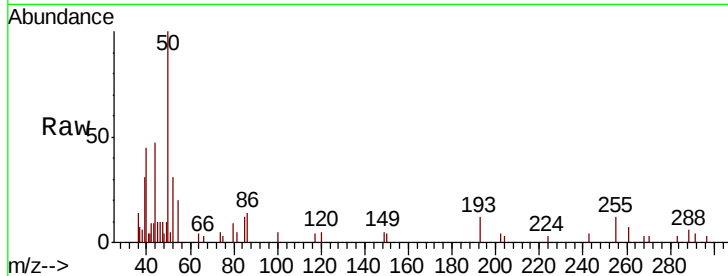
NS-8DL

Tot Ion: 50 Resp: 6627

Ion Ratio Lower Upper

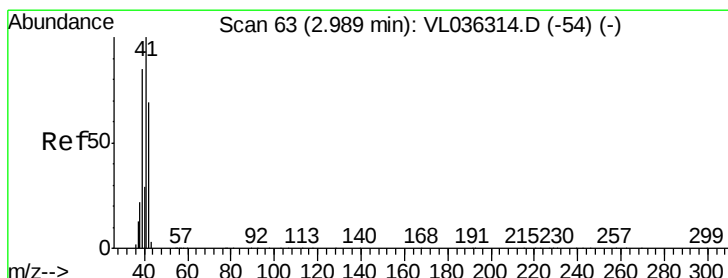
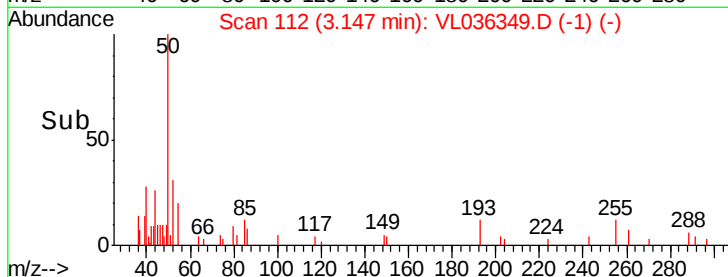
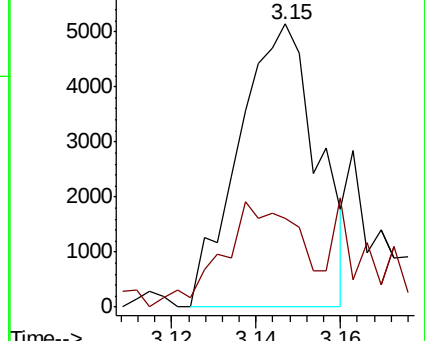
50 100

52 28.2 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.304 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.03 min

Lab File: VL036349.D

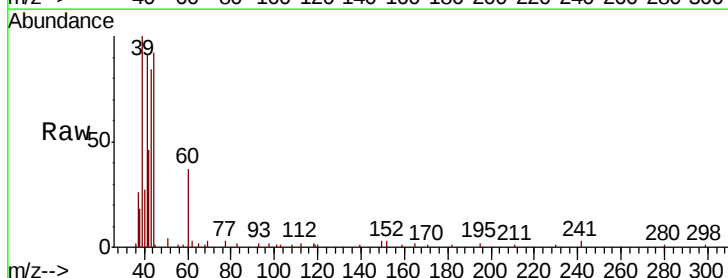
Acq: 24 Feb 2021 13:54

Tgt Ion: 41 Resp: 23605

Ion Ratio Lower Upper

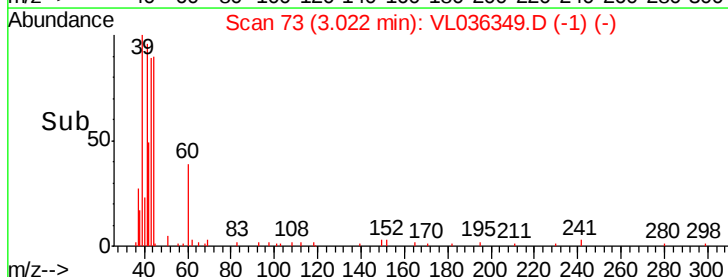
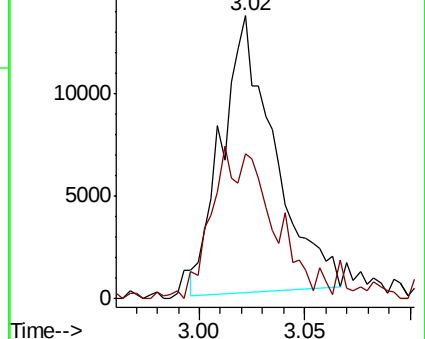
41 100

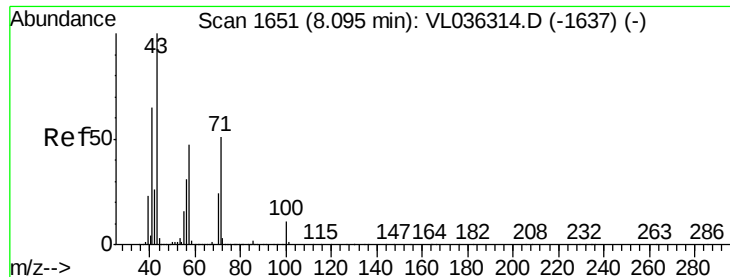
42 69.1 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.053 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.04 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

Instrument :

MSVOA_L

ClientSampleId :

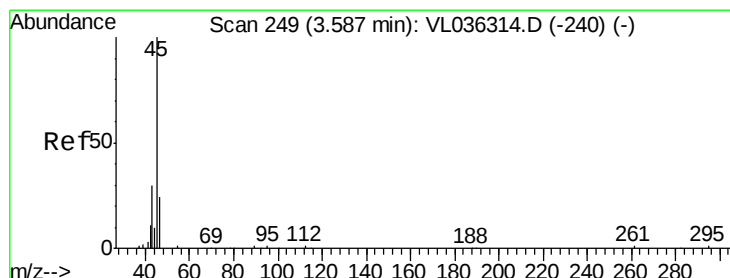
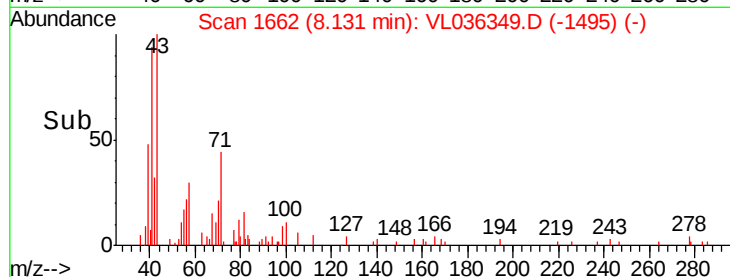
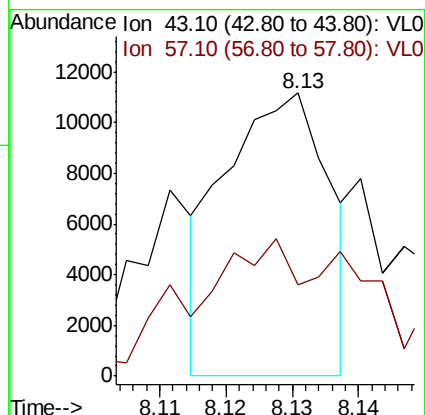
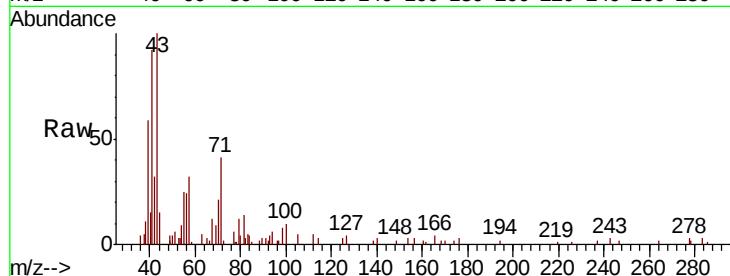
NS-8DL

Tot Ion: 43 Resp: 12112

Ion Ratio Lower Upper

43 100

57 99.1 39.4 59.2#



#13

Ethanol

Concen: 26.920 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.02 min

Lab File: VL036349.D

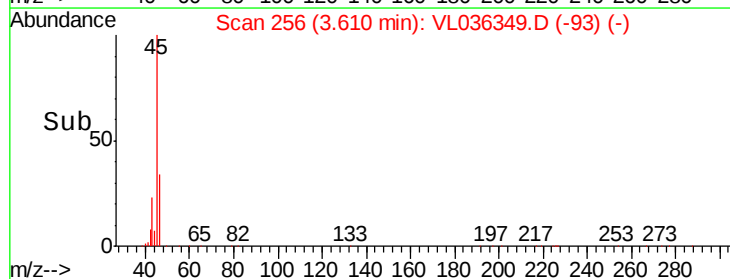
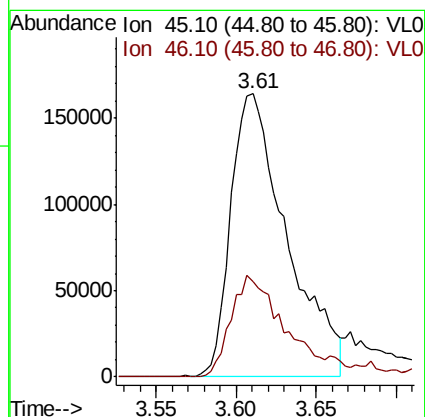
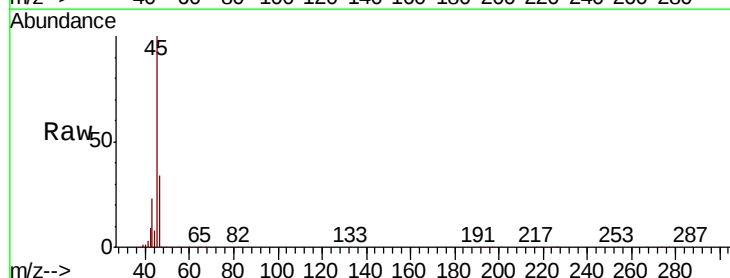
Acq: 24 Feb 2021 13:54

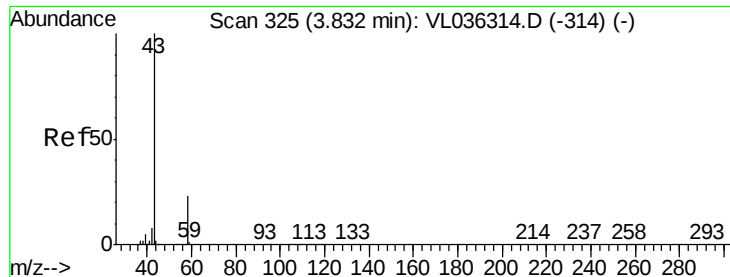
Tgt Ion: 45 Resp: 392039

Ion Ratio Lower Upper

45 100

46 40.8 17.7 70.7





#15

Acetone

Concen: 1.107 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.03 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

Instrument :

MSVOA_L

ClientSampleId :

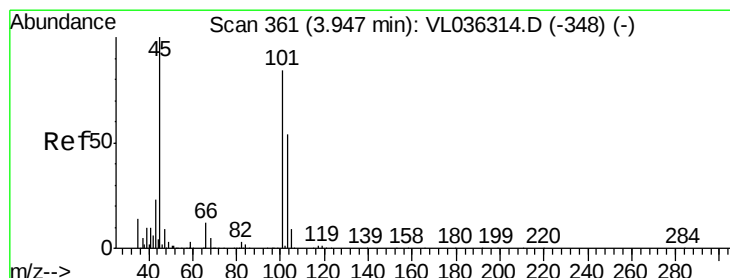
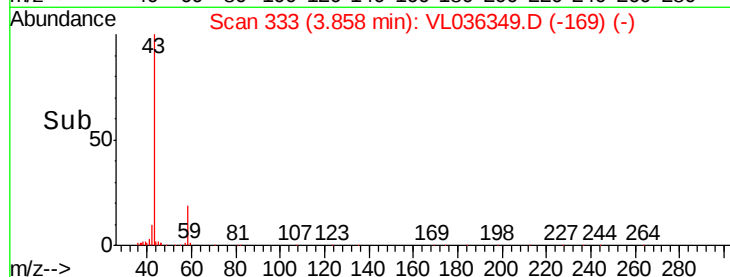
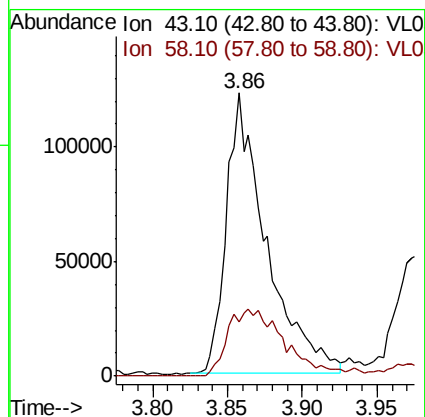
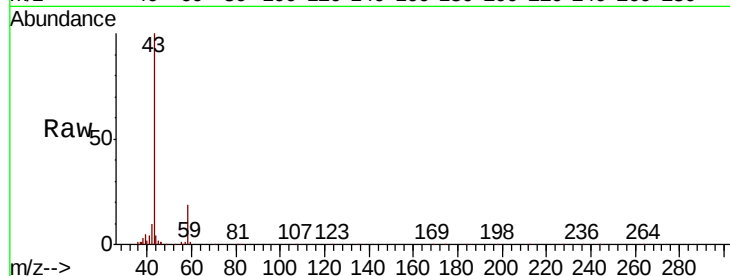
NS-8DL

Tot Ion: 43 Resp: 226525

Ion Ratio Lower Upper

43 100

58 34.6 20.3 30.5#



#19

Isopropyl Alcohol

Concen: 3.599 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.03 min

Lab File: VL036349.D

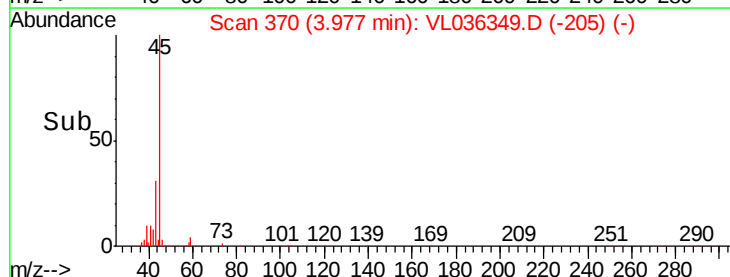
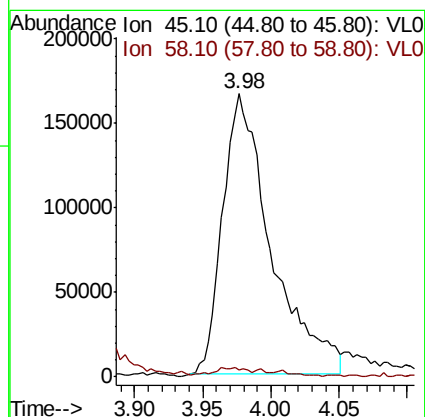
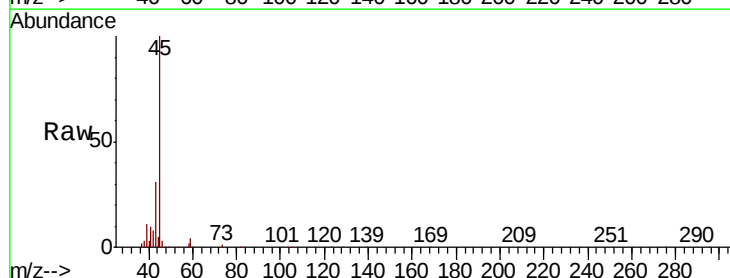
Acq: 24 Feb 2021 13:54

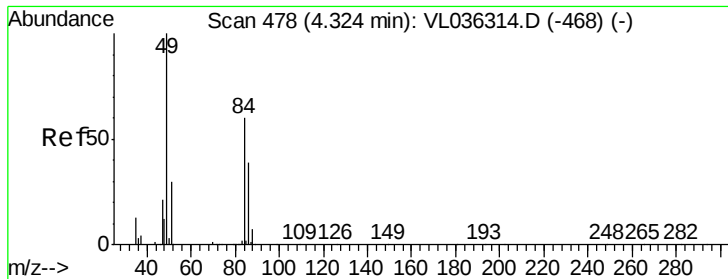
Tgt Ion: 45 Resp: 407895

Ion Ratio Lower Upper

45 100

58 4.8 1.9 2.9#

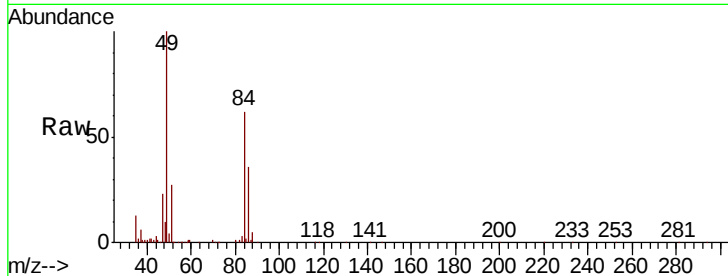




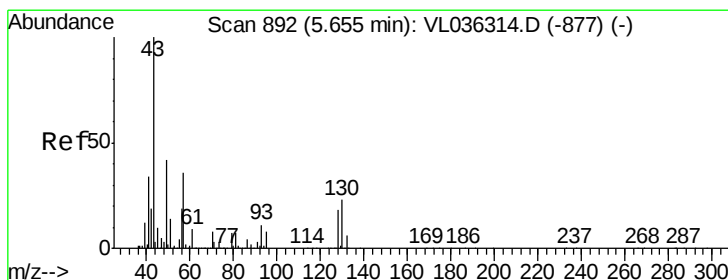
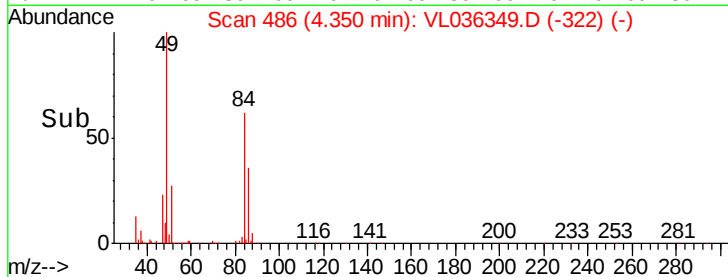
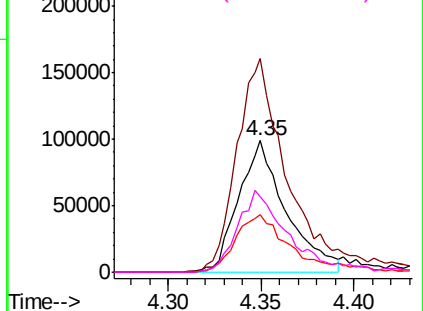
#20
Methylene Chloride
Concen: 2.670 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.03 min
Lab File: VL036349.D
Acq: 24 Feb 2021 13:54

Instrument :
MSVOA_L
ClientSampleId :
NS-8DL

Tot Ion:	84	Resp:	176209
Ion	Ratio	Lower	Upper
84	100		
49	161.2	133.8	200.8
51	43.7	41.4	62.0
86	57.8	51.5	77.3

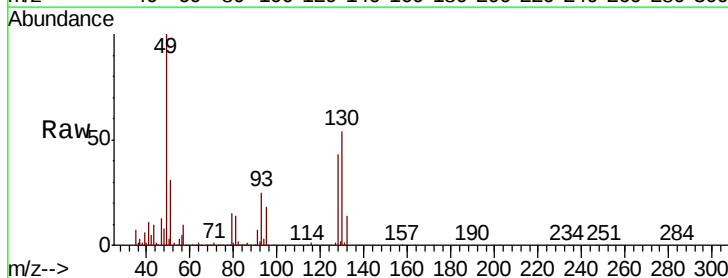


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

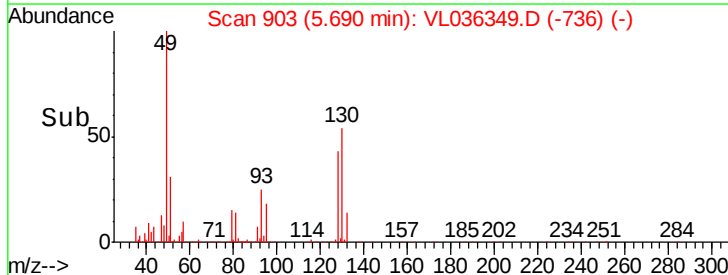
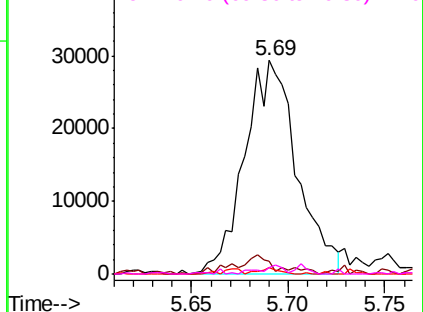


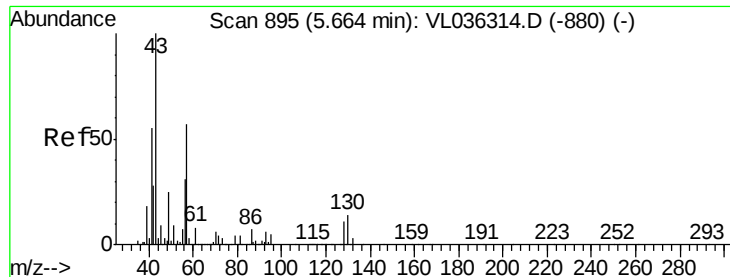
#25
Ethyl Acetate
Concen: 0.140 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.04 min
Lab File: VL036349.D
Acq: 24 Feb 2021 13:54

Tgt Ion:	43	Resp:	55287
Ion	Ratio	Lower	Upper
43	100		
45	6.9	8.3	12.5#
61	2.7	7.3	10.9#
70	3.7	5.4	8.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.347 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

Instrument :

MSVOA_L

ClientSampleId :

NS-8DL

Tot Ion: 57 Resp: 56364

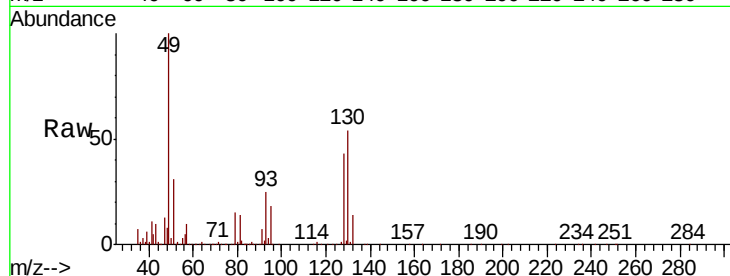
Ion Ratio Lower Upper

57 100

41 125.3 81.7 122.5#

43 108.4 199.1 298.7#

56 64.0 44.0 66.0

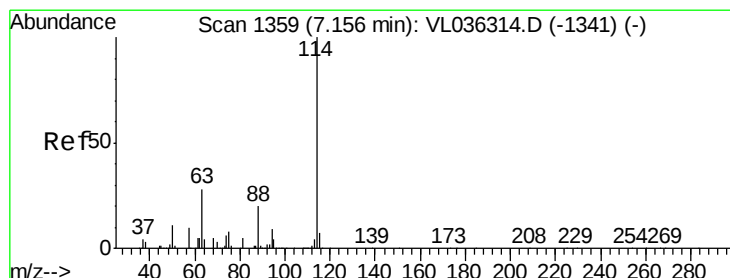
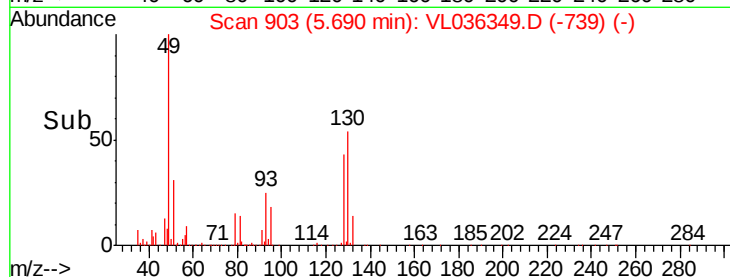
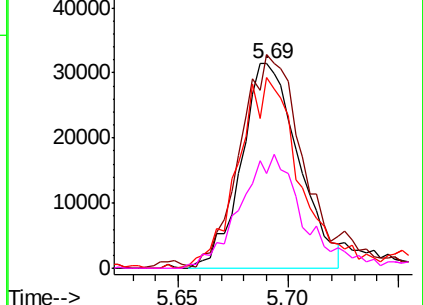


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

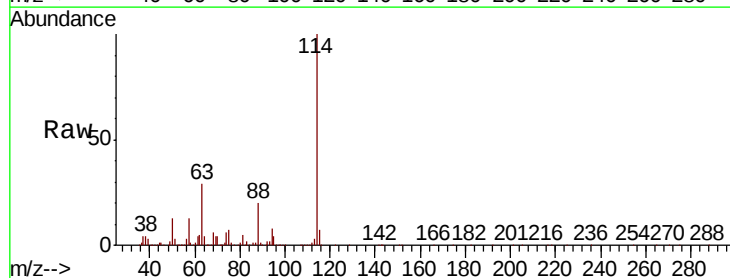
Tgt Ion: 114 Resp: 3713461

Ion Ratio Lower Upper

114 100

63 29.1 24.1 36.1

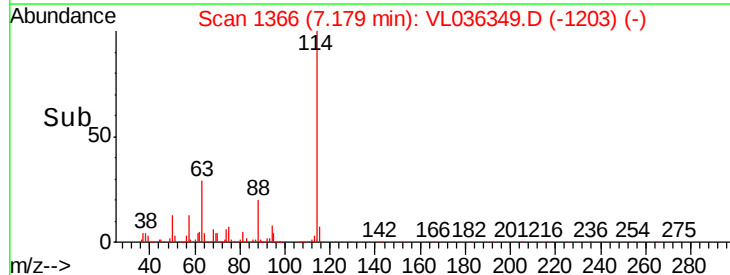
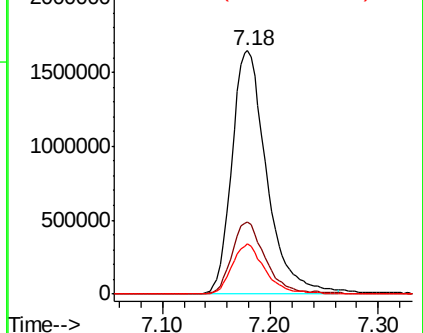
88 20.0 16.0 24.0

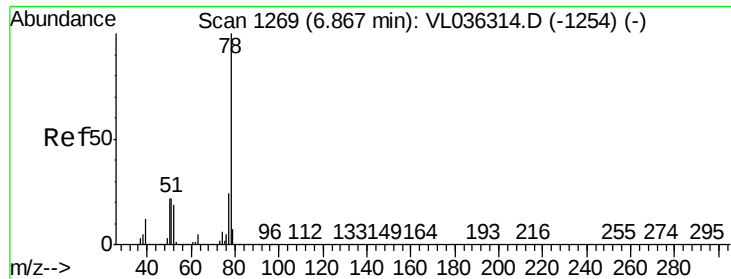


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.039 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.03 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

Instrument :

MSVOA_L

ClientSampleId :

NS-8DL

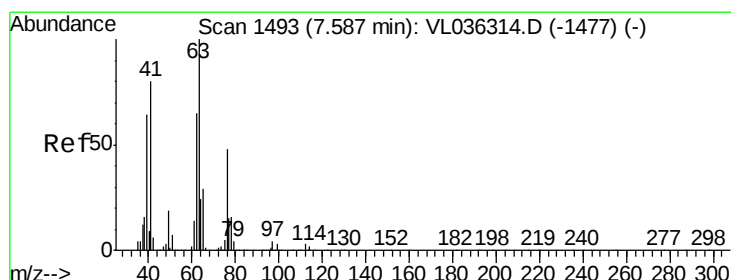
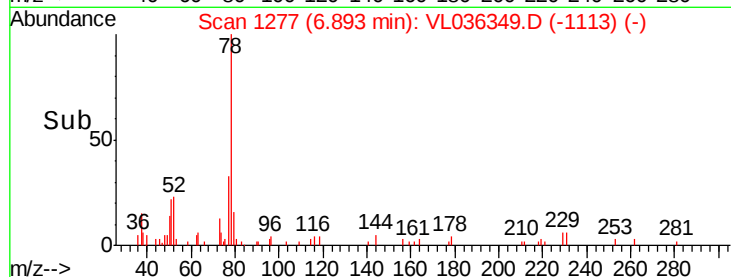
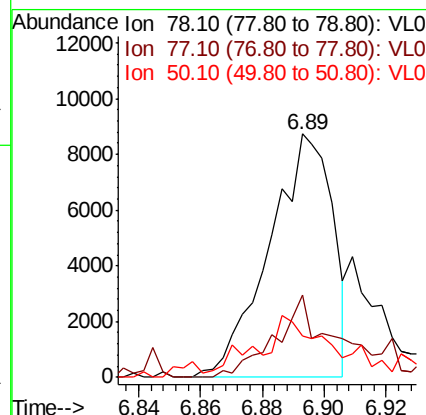
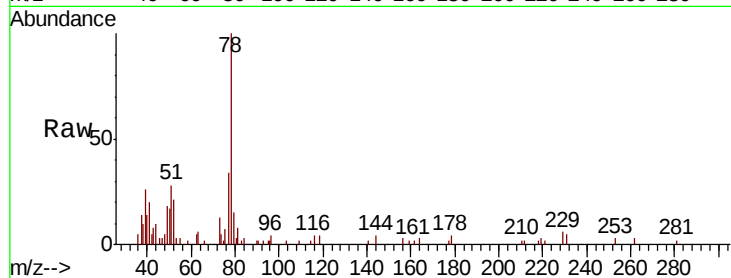
Tot Ion: 78 Resp: 12447

Ion Ratio Lower Upper

78 100

77 34.0 18.9 28.3#

50 10.3 17.3 25.9#



#39

1,2-Dichloropropane

Concen: 8.149 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.41 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

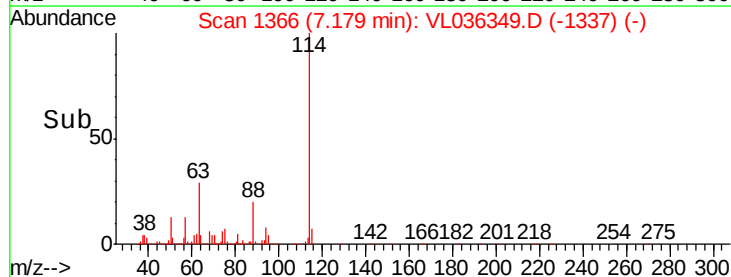
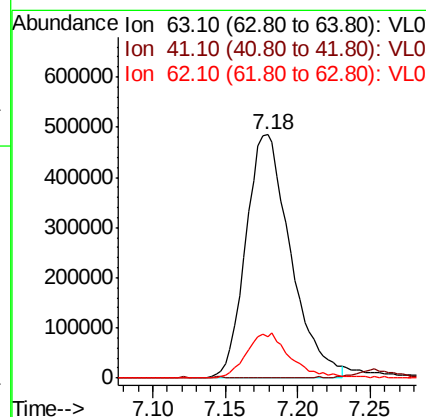
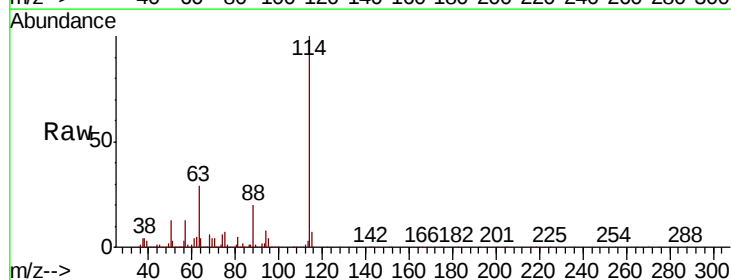
Tgt Ion: 63 Resp: 1044165

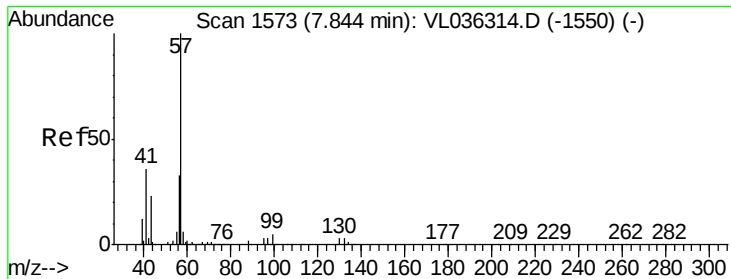
Ion Ratio Lower Upper

63 100

41 0.0 63.8 95.6#

62 17.2 52.3 78.5#

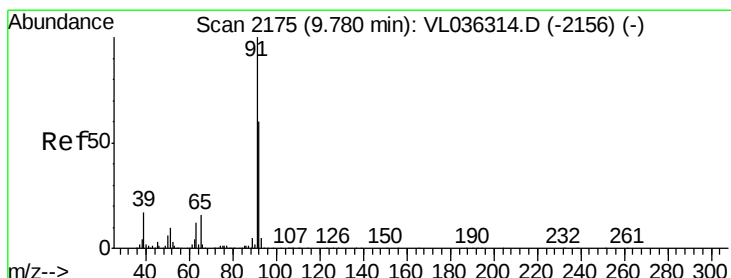
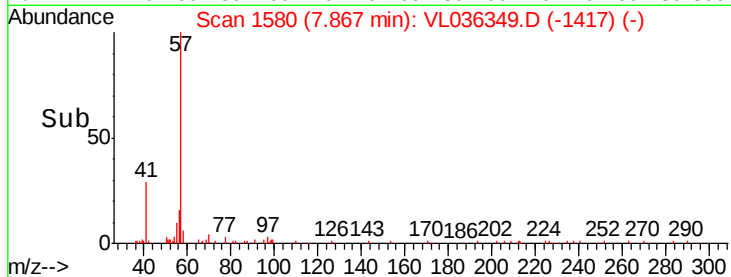
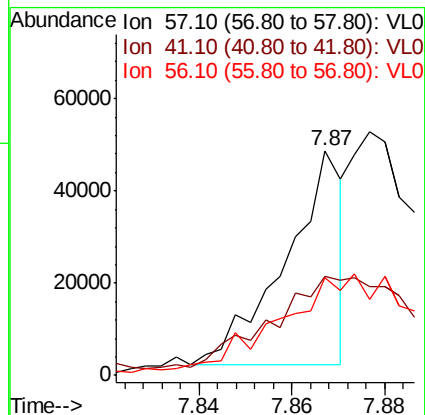
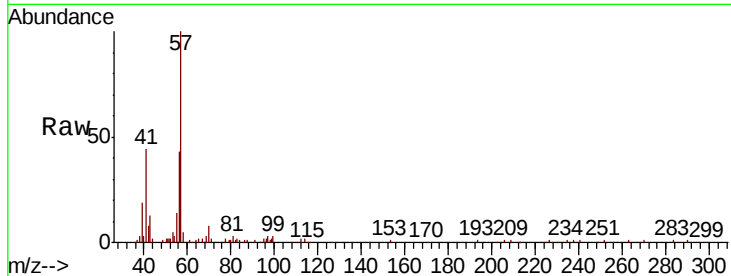




#44
 2,2,4-Trimethylpentane
 Concen: 0.070 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VL036349.D
 Acq: 24 Feb 2021 13:54

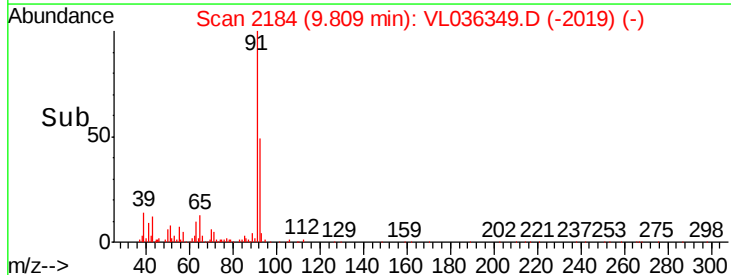
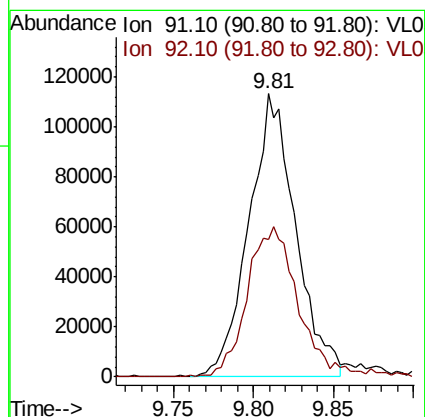
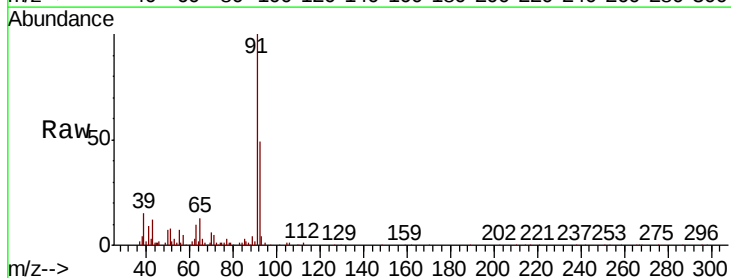
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-8DL

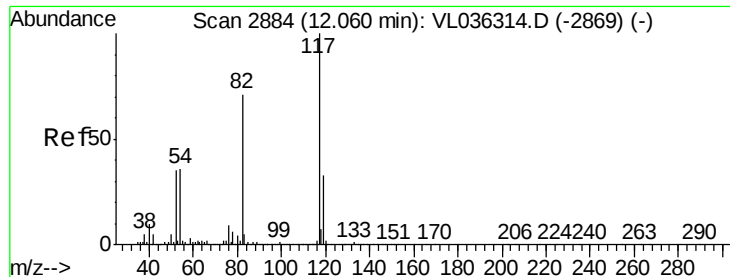
Tot Ion: 57 Resp: 40094
 Ion Ratio Lower Upper
 57 100
 41 137.9 28.8 43.2#
 56 0.0 25.8 38.6#



#53
 Toluene
 Concen: 0.665 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. 0.03 min
 Lab File: VL036349.D
 Acq: 24 Feb 2021 13:54

Tgt Ion: 91 Resp: 227348
 Ion Ratio Lower Upper
 91 100
 92 58.5 48.6 72.8

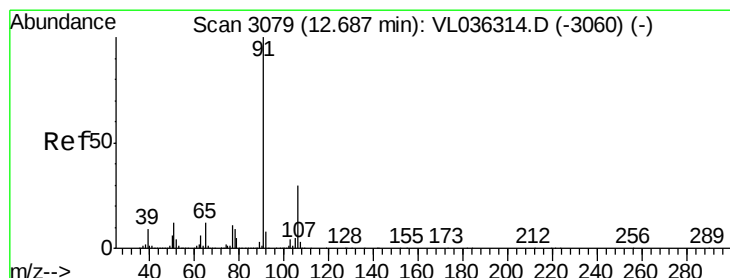
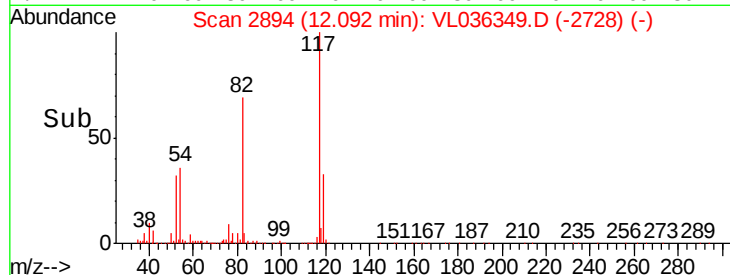
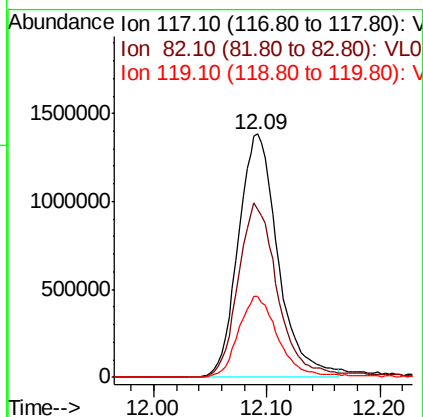
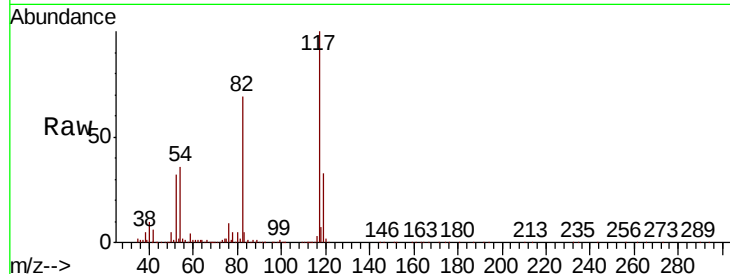




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. 0.03 min
Lab File: VL036349.D
Acq: 24 Feb 2021 13:54

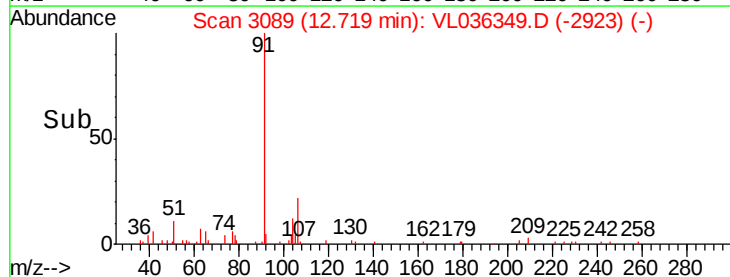
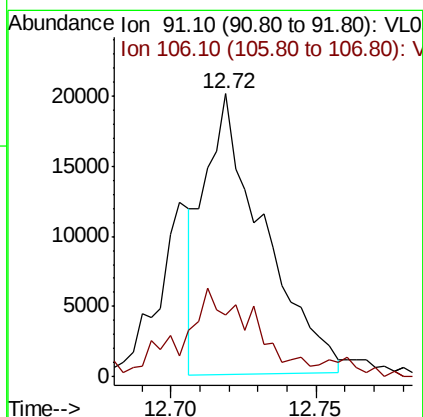
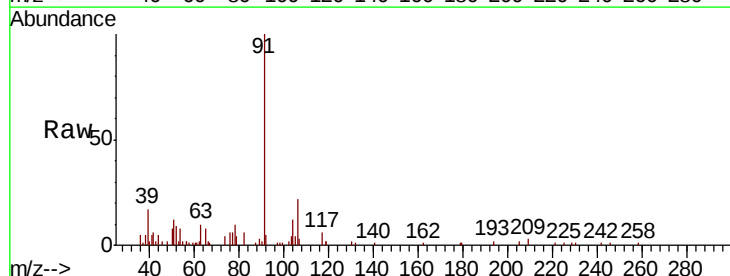
Instrument :
MSVOA_L
ClientSampleId :
NS-8DL

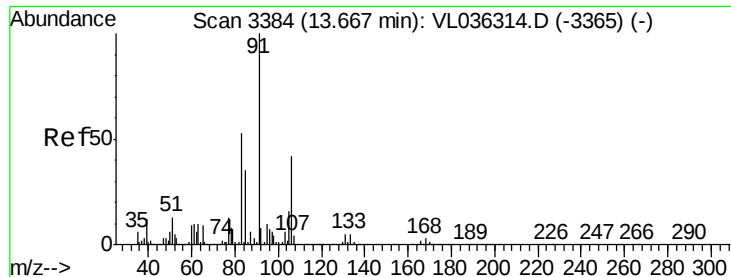
Tot Ion:117 Resp: 3378427
Ion Ratio Lower Upper
117 100
82 73.3 59.1 88.7
119 34.0 46.3 69.5#



#58
Ethyl Benzene
Concen: 0.061 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. 0.03 min
Lab File: VL036349.D
Acq: 24 Feb 2021 13:54

Tgt Ion: 91 Resp: 28241
Ion Ratio Lower Upper
91 100
106 17.7 23.8 35.6#





#60

o-Xylene

Concen: 0.045 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. 0.04 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

Instrument :

MSVOA_L

ClientSampleId :

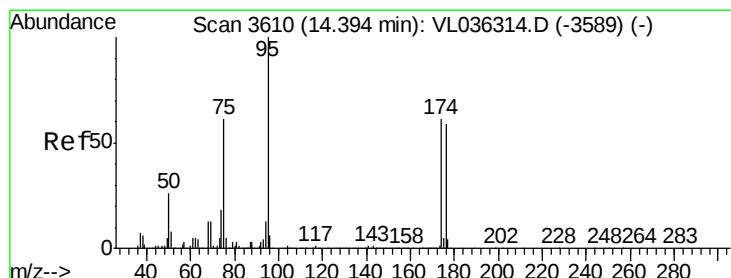
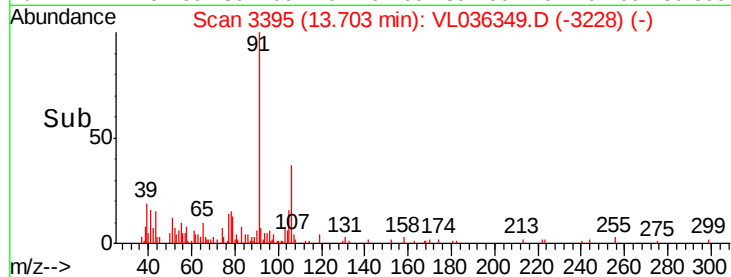
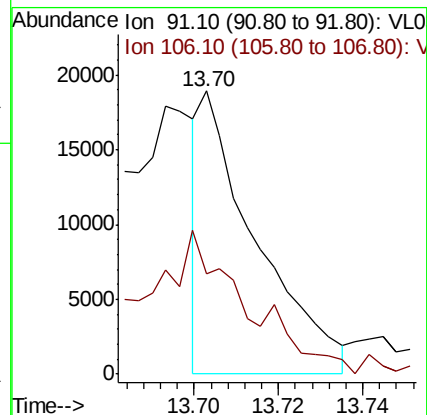
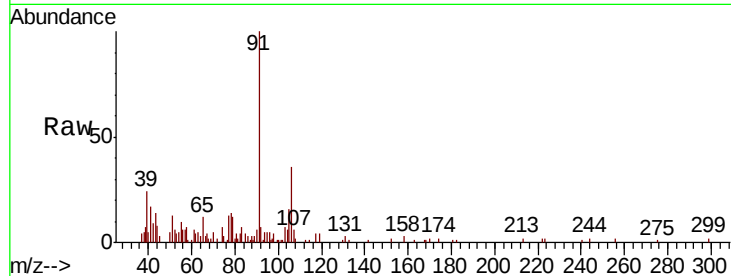
NS-8DL

Tot Ion: 91 Resp: 17305

Ion Ratio Lower Upper

91 100

106 116.3 22.0 66.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 4.601 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.03 min

Lab File: VL036349.D

Acq: 24 Feb 2021 13:54

Tgt Ion: 95 Resp: 1278895

Ion Ratio Lower Upper

95 100

174 137.3 49.8 74.6#

175 10.5 3.7 5.5#

