

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036967.D
 Acq On : 18 May 2021 13:51
 Operator : SY/AP
 Sample : M2262-13 0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Quant Time: May 19 03:13:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1288137	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3658485	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3298389	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2482098	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

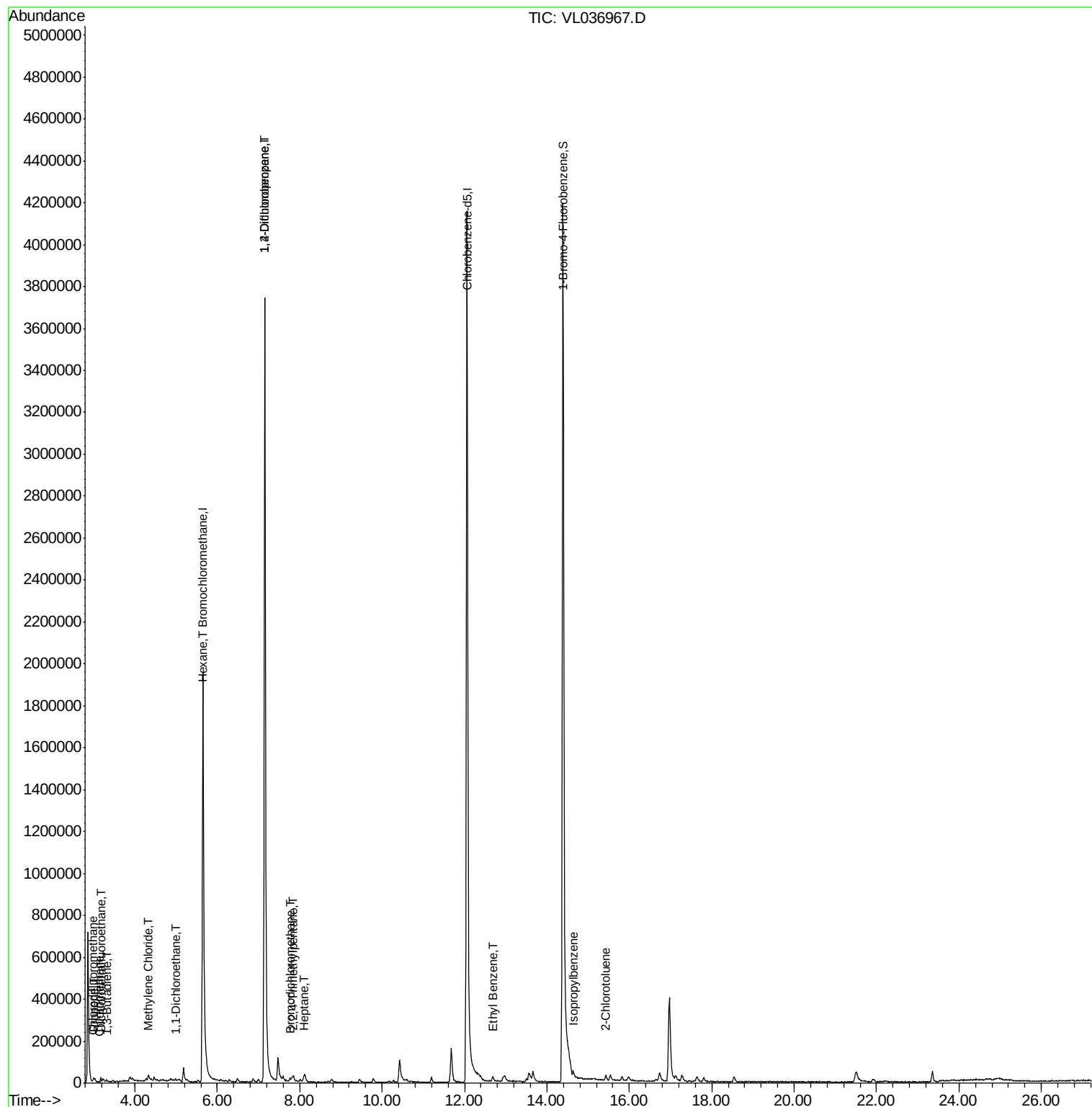
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	11881	0.050	ppbv	99
4) Chloromethane	3.12	50	2514	0.031	ppbv	93
8) Dichlorotetrafluoroethane	3.17	85	7147	0.035	ppbv #	63
9) Propene	3.00	41	5492	0.065	ppbv #	43
10) Heptane	8.10	43	6423	0.030	ppbv #	25
16) 1,3-Butadiene	3.32	39	2969	0.036	ppbv #	10
20) Methylene Chloride	4.33	84	7778	0.110	ppbv #	82
24) 1,1-Dichloroethane	4.99	63	6333	0.042	ppbv #	85
26) Hexane	5.66	57	7422	0.046	ppbv #	76
39) 1,2-Dichloropropane	7.15	63	863533	7.113	ppbv #	26
42) Bromodichloromethane	7.76	83	7909	0.033	ppbv #	69
44) 2,2,4-Trimethylpentane	7.85	57	24536	0.045	ppbv #	79
58) Ethyl Benzene	12.69	91	20187	0.043	ppbv	89
62) Isopropylbenzene	14.64	105	17247	0.033	ppbv #	65
71) 2-Chlorotoluene	15.44	91	12048	0.032	ppbv #	59

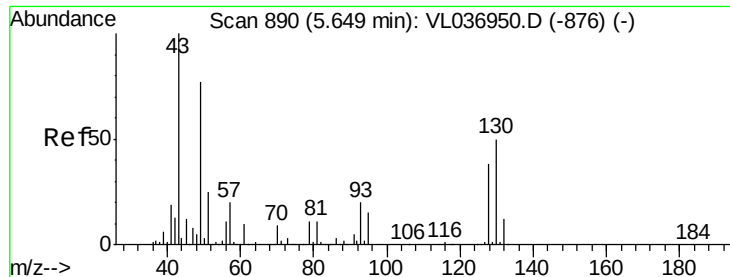
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

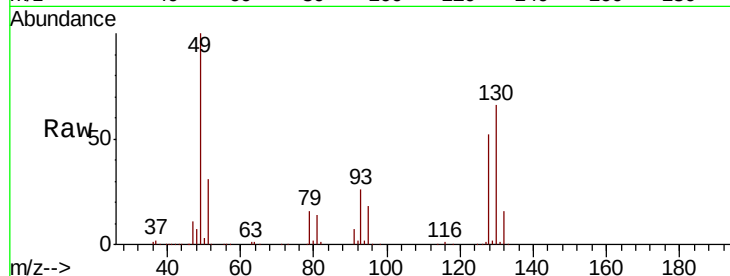
Tot Ion: 49 Resp: 1288137

Ion Ratio Lower Upper

49 100

128 53.7 26.9 80.7

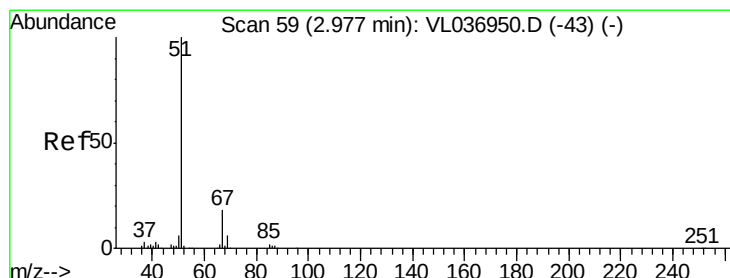
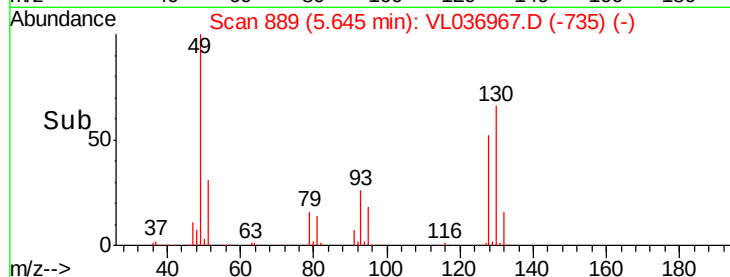
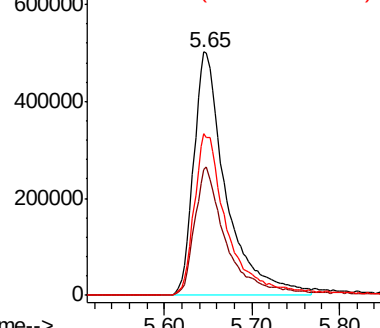
130 69.5 33.8 101.4



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: 0.050 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036967.D

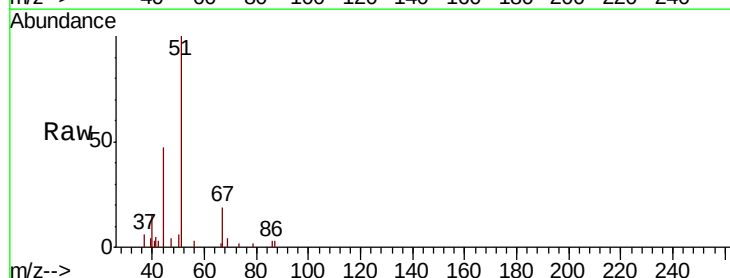
Acq: 18 May 2021 13:51

Tgt Ion: 51 Resp: 11881

Ion Ratio Lower Upper

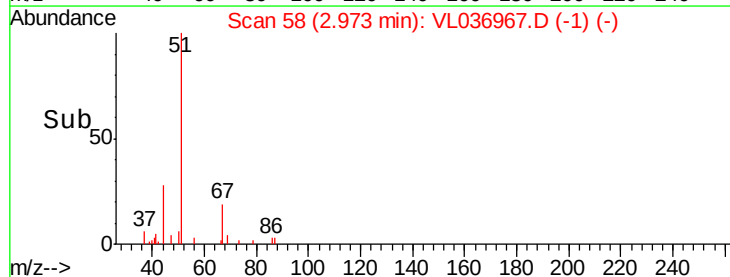
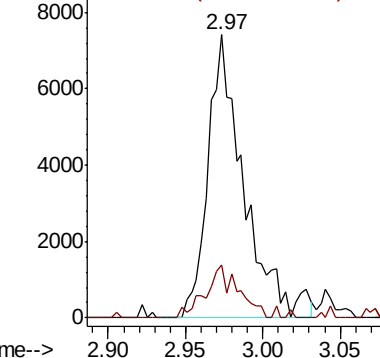
51 100

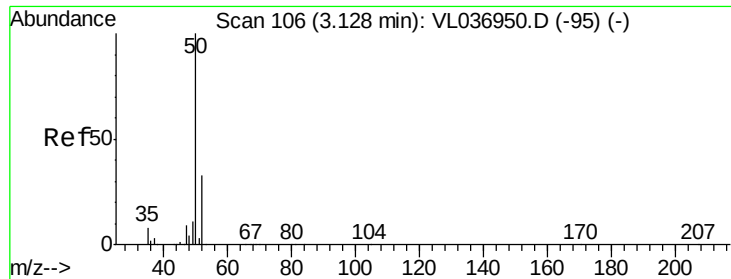
67 17.6 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.031 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA_L

ClientSampleId :

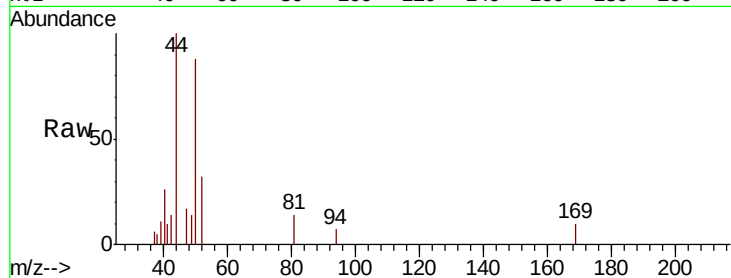
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 50 Resp: 2514

Ion Ratio Lower Upper

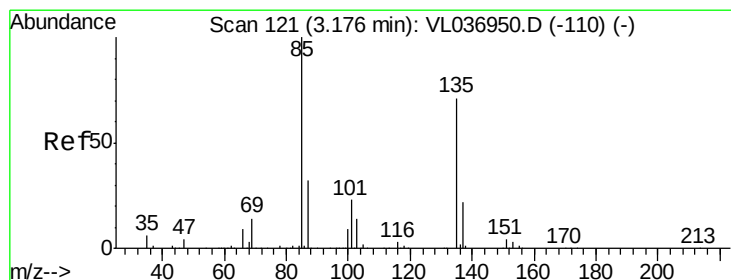
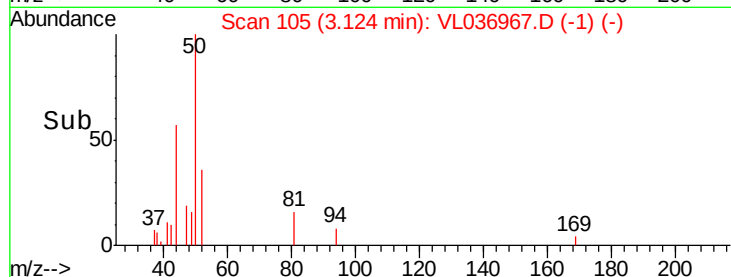
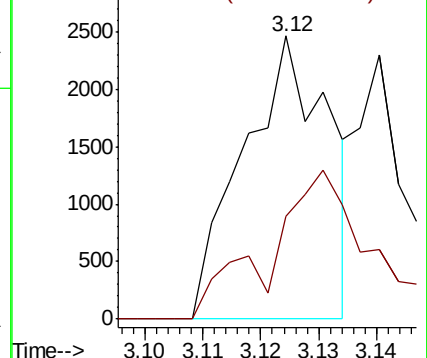
50 100

52 36.4 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.035 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.00 min

Lab File: VL036967.D

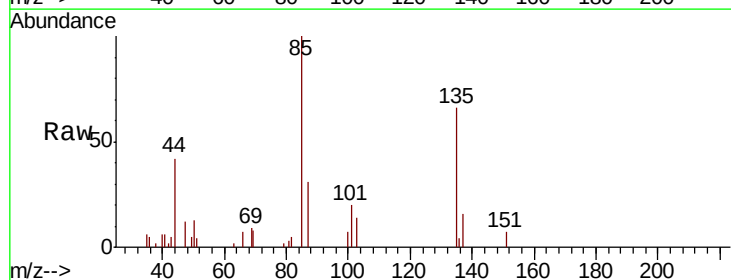
Acq: 18 May 2021 13:51

Tgt Ion: 85 Resp: 7147

Ion Ratio Lower Upper

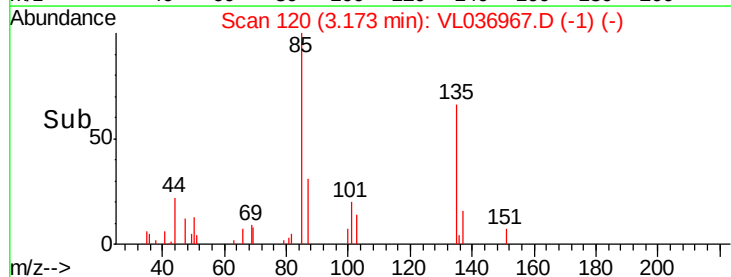
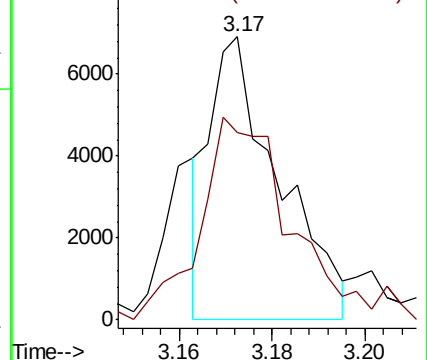
85 100

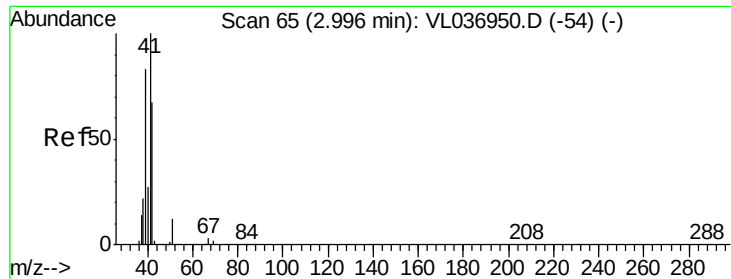
135 103.1 57.7 86.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.065 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA_L

ClientSampleId :

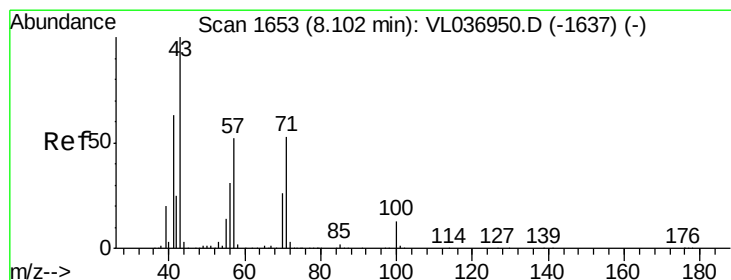
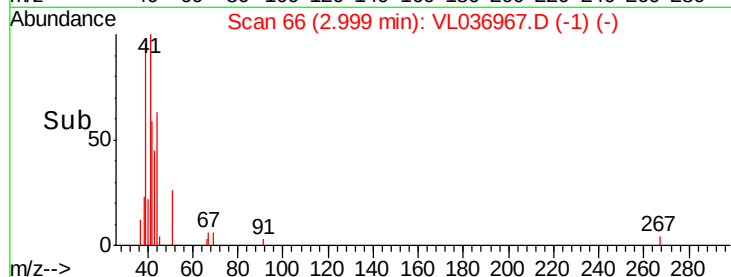
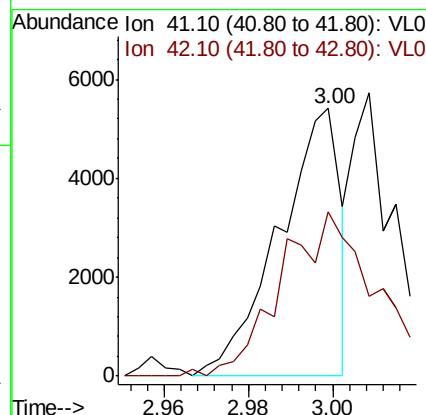
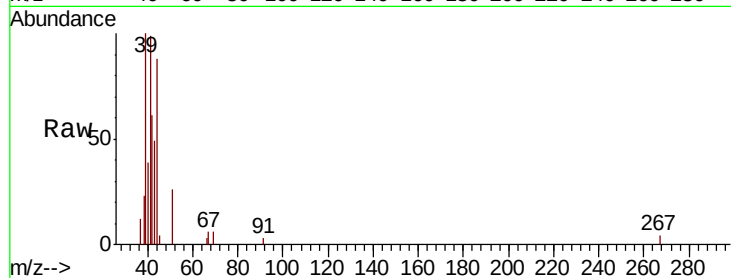
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 41 Resp: 5492

Ion Ratio Lower Upper

41 100

42 113.1 53.9 80.9#



#10

Heptane

Concen: 0.030 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL036967.D

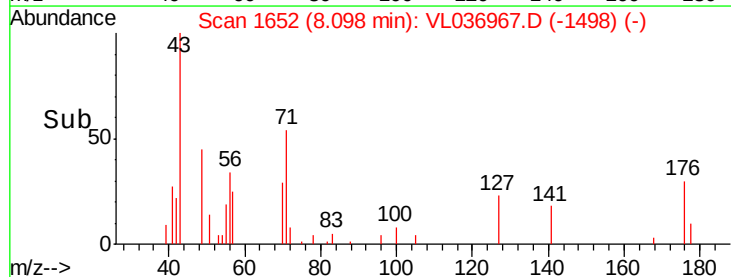
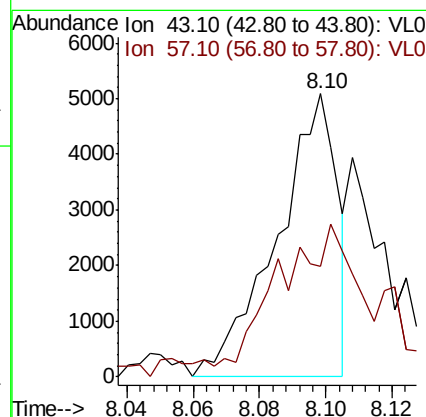
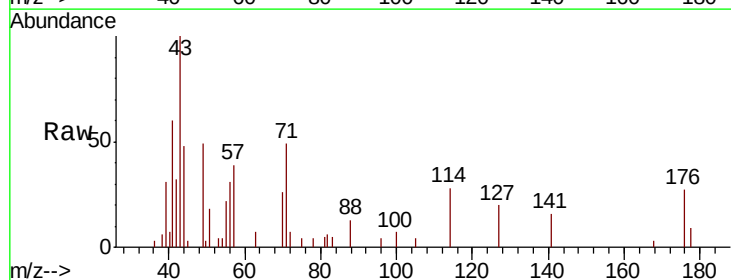
Acq: 18 May 2021 13:51

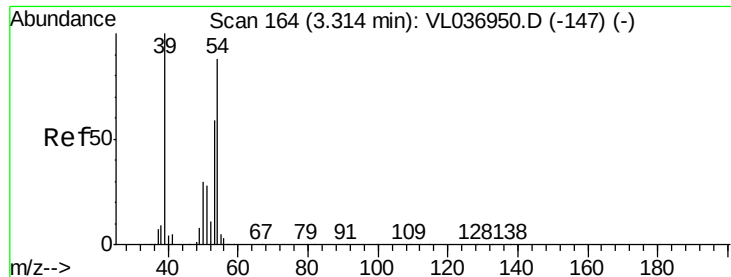
Tgt Ion: 43 Resp: 6423

Ion Ratio Lower Upper

43 100

57 103.6 41.0 61.6#





#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.32 min Scan# 165

Delta R.T. 0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA_L

ClientSampleId :

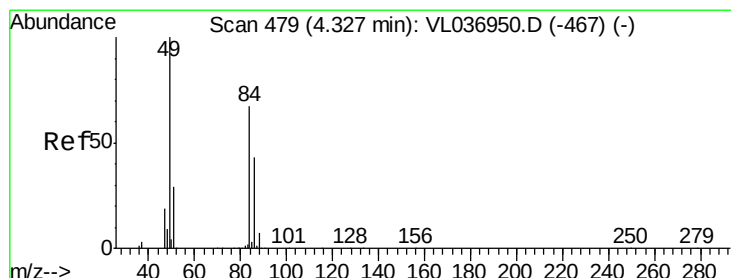
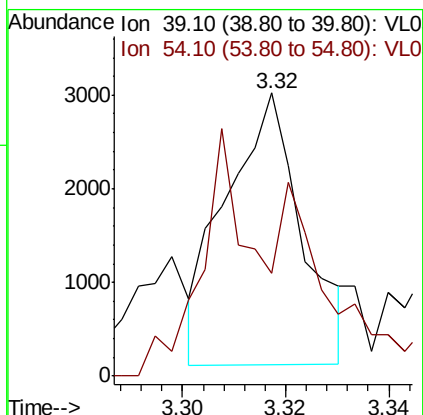
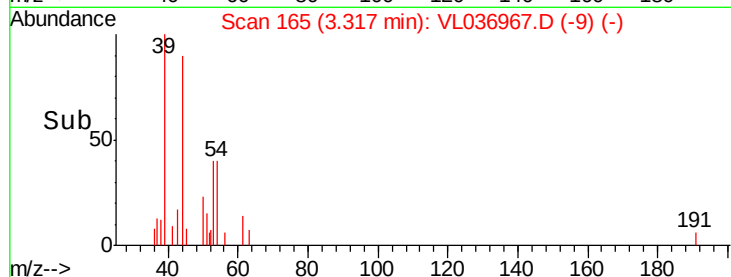
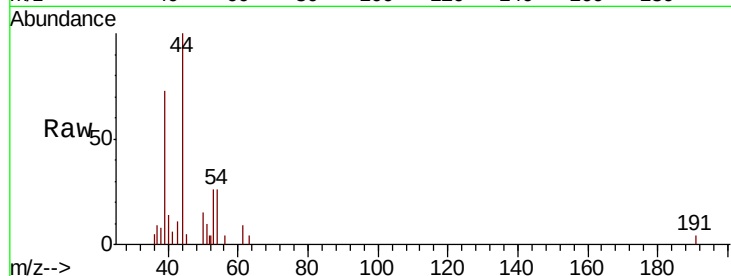
LOD-MDL-AIR-01-QT2-2021

Tot Ion: 39 Resp: 2969

Ion Ratio Lower Upper

39 100

54 0.0 63.2 94.8#



#20

Methylene Chloride

Concen: 0.110 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Tgt Ion: 84 Resp: 7778

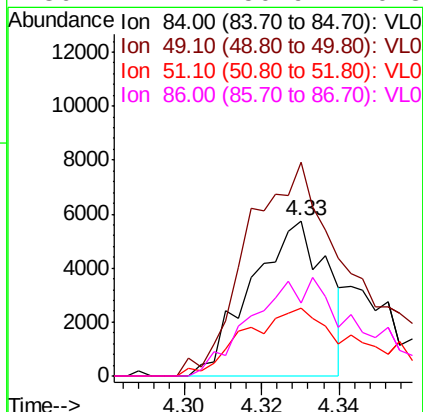
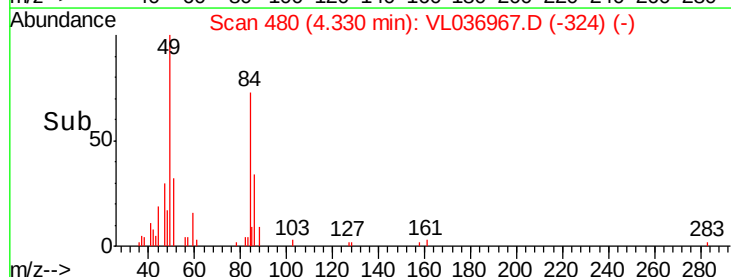
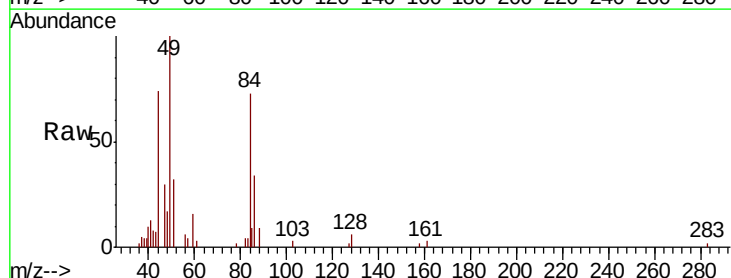
Ion Ratio Lower Upper

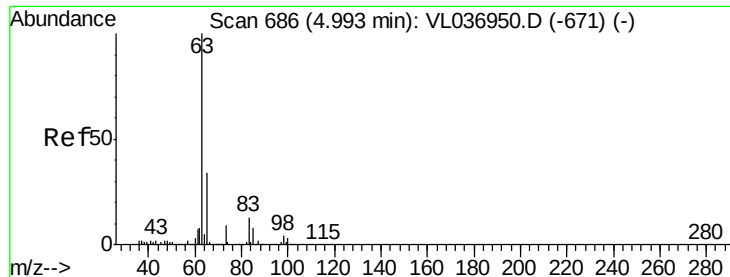
84 100

49 125.6 119.8 179.6

51 38.8 35.1 52.7

86 47.2 50.9 76.3#





#24

1,1-Dichloroethane

Concen: 0.042 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

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ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

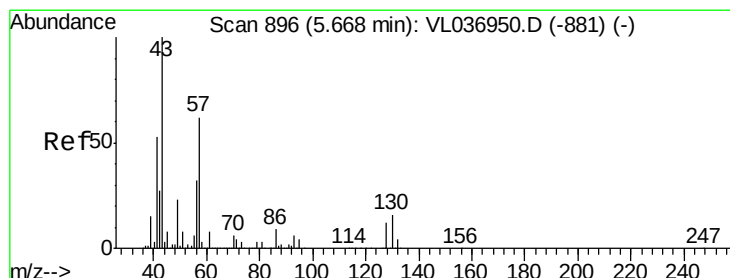
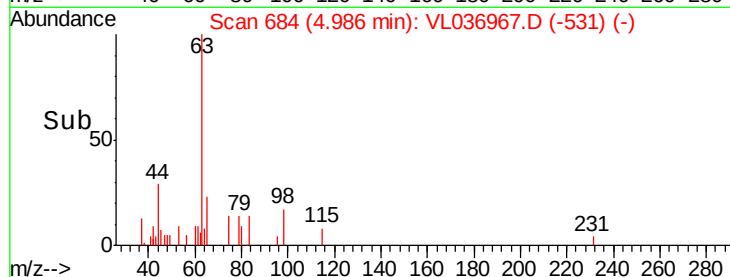
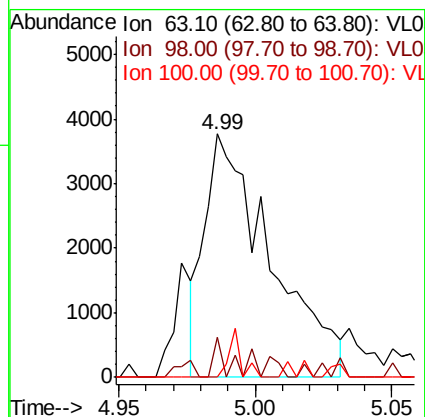
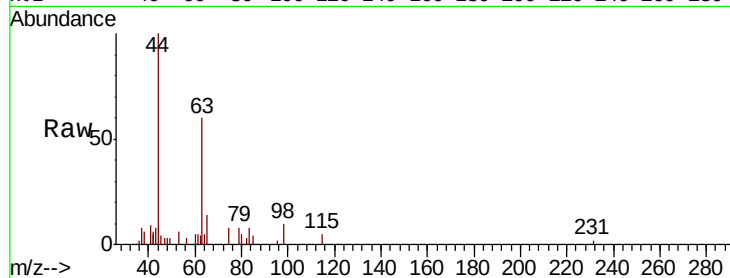
Tot Ion: 63 Resp: 6333

Ion Ratio Lower Upper

63 100

98 11.0 2.3 6.9#

100 0.0 1.4 4.0#



#26

Hexane

Concen: 0.046 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Tgt Ion: 57 Resp: 7422

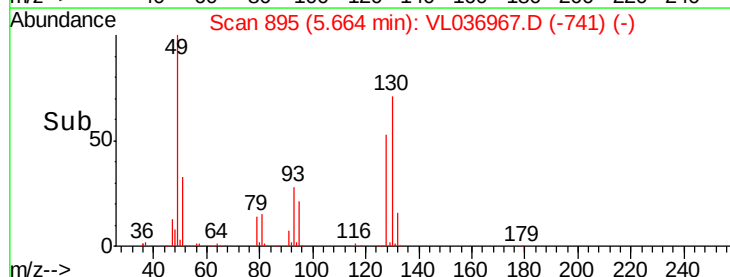
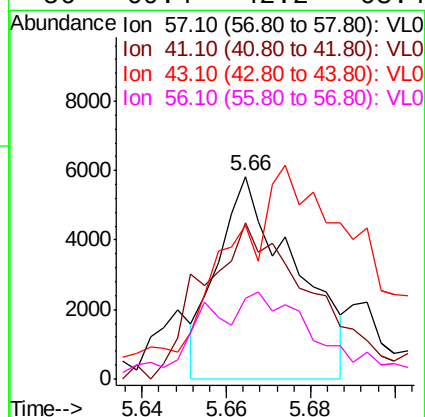
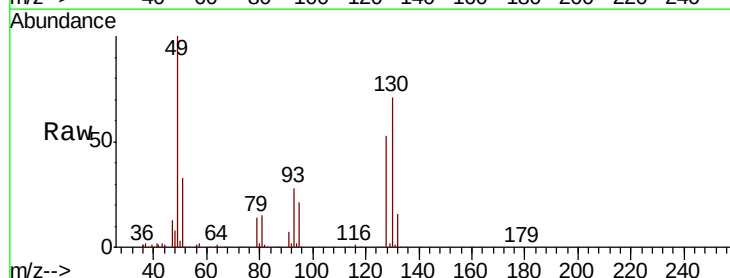
Ion Ratio Lower Upper

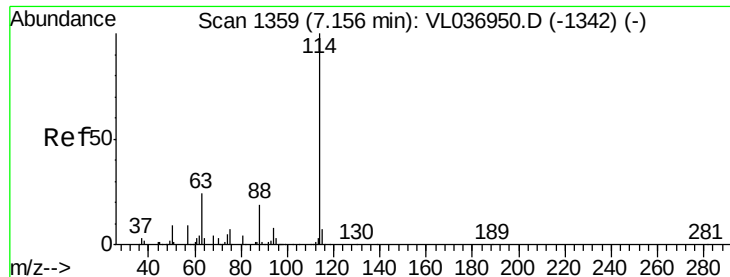
57 100

41 133.0 70.5 105.7#

43 229.6 165.8 248.8

56 69.4 42.2 63.4#

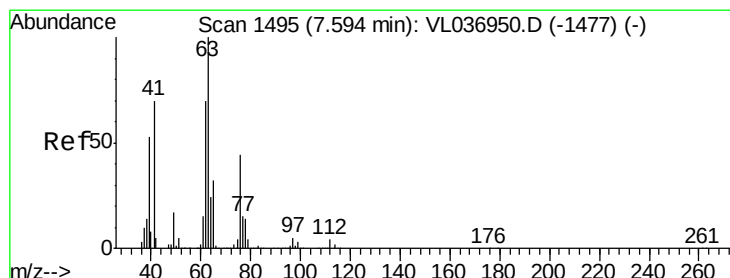
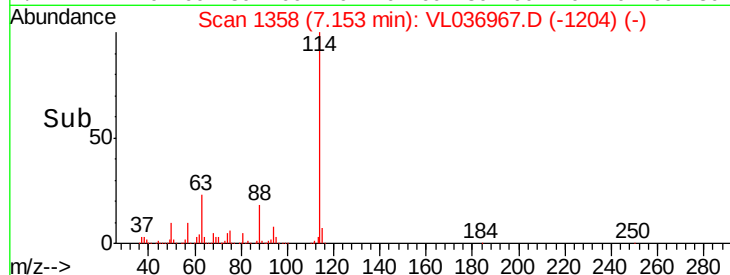
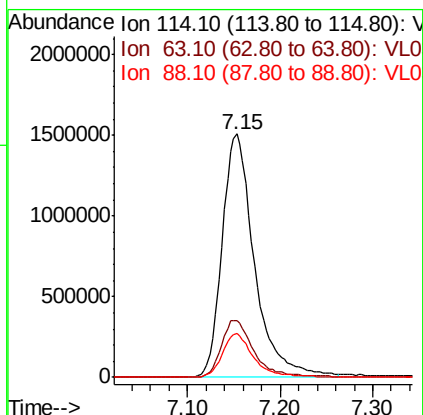
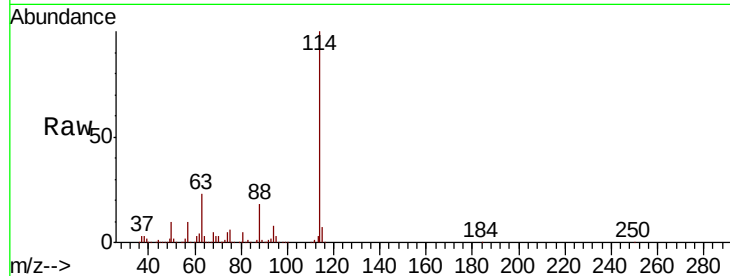




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL036967.D
 Acq: 18 May 2021 13:51

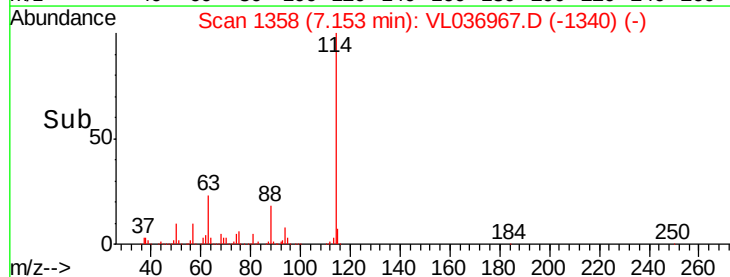
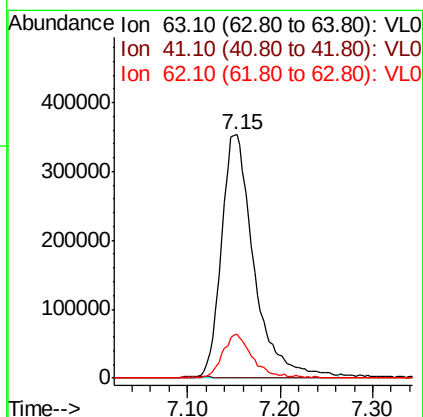
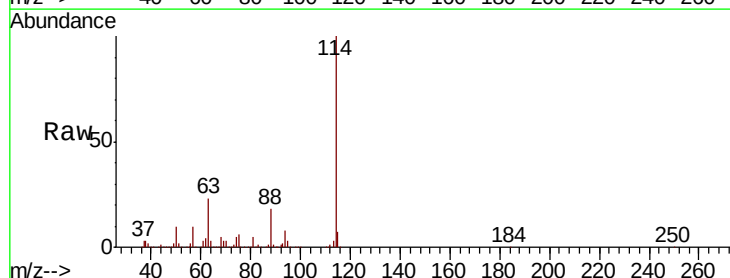
Instrument :
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 LOD-MDL-AIR-01-QT2-2021

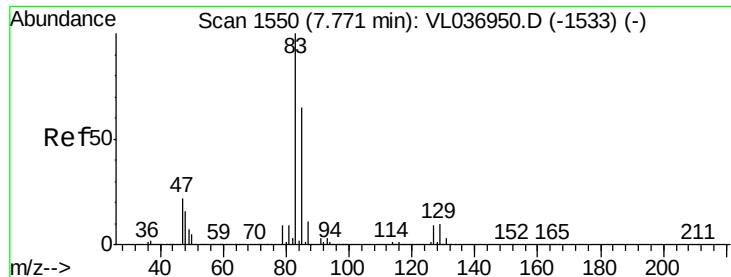
Tot Ion:114 Resp: 3658485
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.6 29.4
 88 17.5 14.6 21.8



#39
 1,2-Dichloropropane
 Concen: 7.113 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.44 min
 Lab File: VL036967.D
 Acq: 18 May 2021 13:51

Tgt Ion: 63 Resp: 863533
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.7 83.5#
 62 17.8 56.2 84.4#





#42

Bromodichloromethane

Concen: 0.033 ppbv

RT: 7.76 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2021

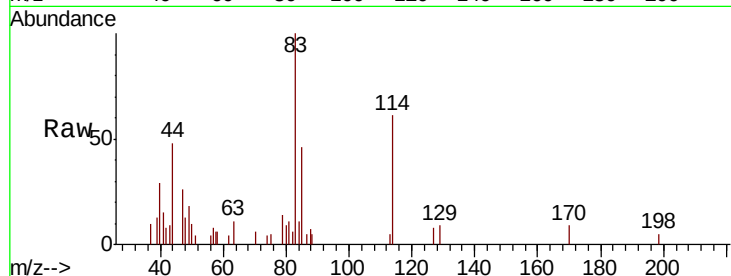
Tot Ion: 83 Resp: 7909

Ion Ratio Lower Upper

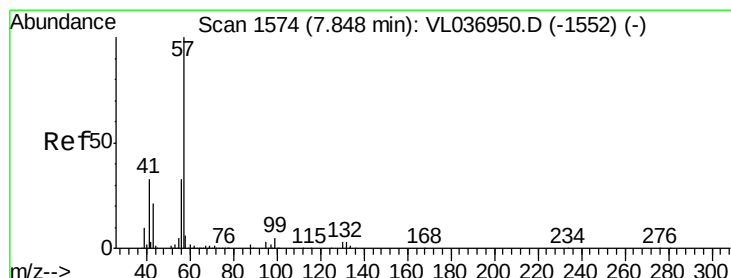
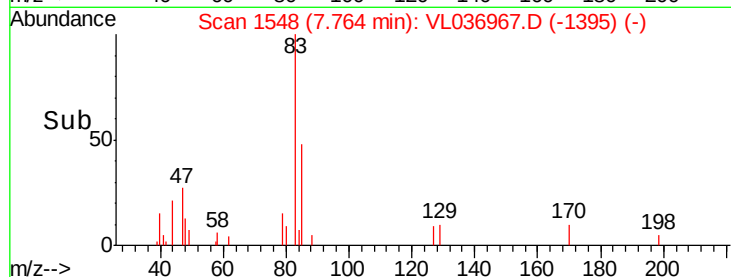
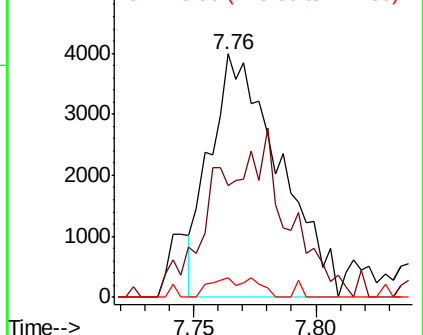
83 100

85 37.2 51.7 77.5#

127 8.3 6.9 10.3



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): V



#44

2,2,4-Trimethylpentane

Concen: 0.045 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

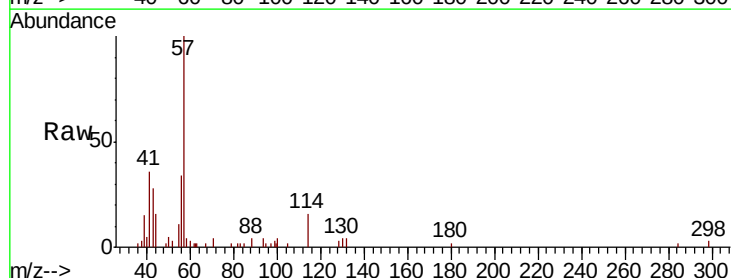
Tgt Ion: 57 Resp: 24536

Ion Ratio Lower Upper

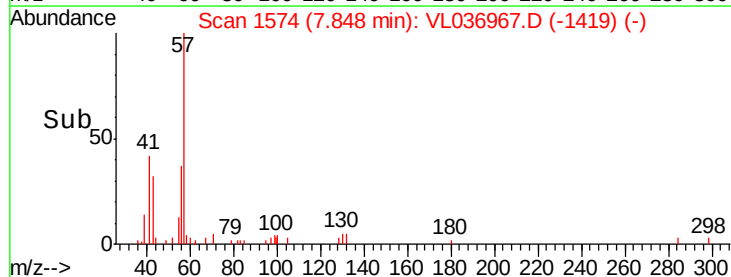
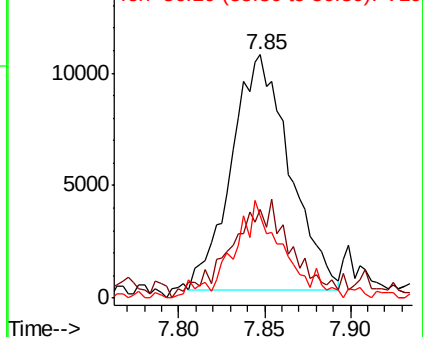
57 100

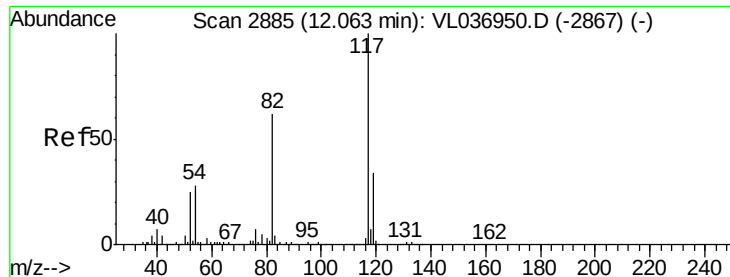
41 50.4 27.0 40.4#

56 38.7 25.4 38.2#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

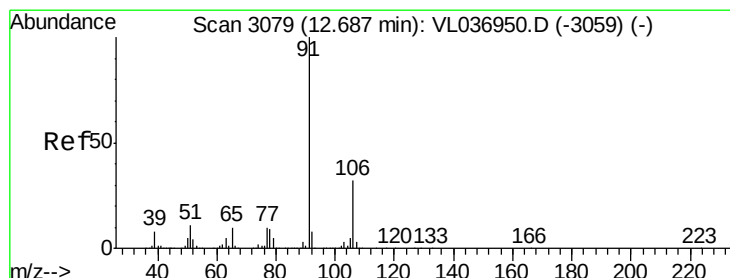
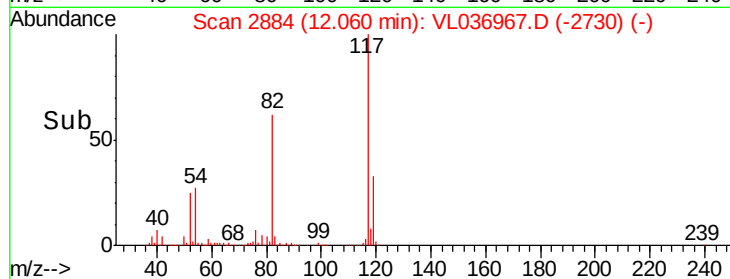
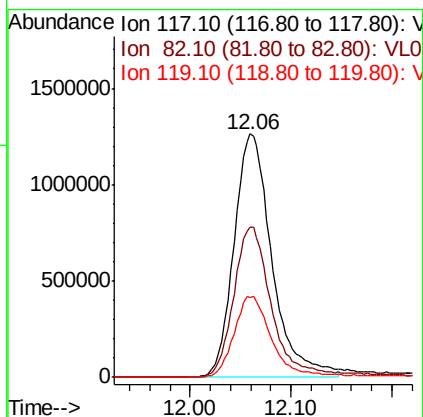
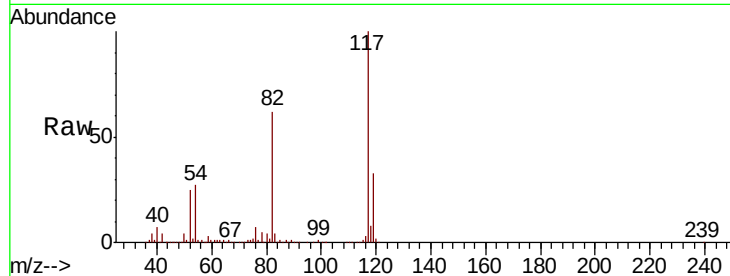




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.00 min
Lab File: VL036967.D
Acq: 18 May 2021 13:51

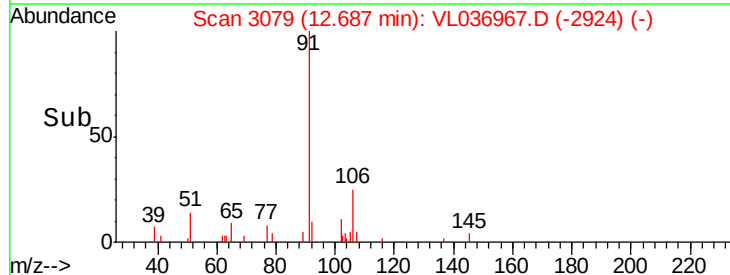
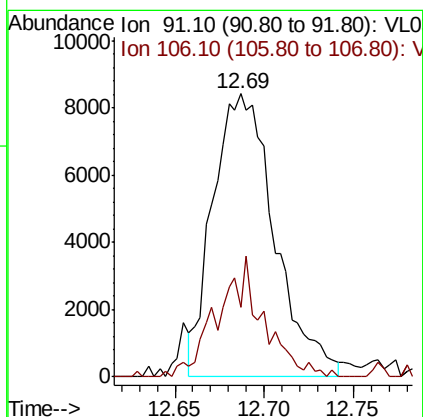
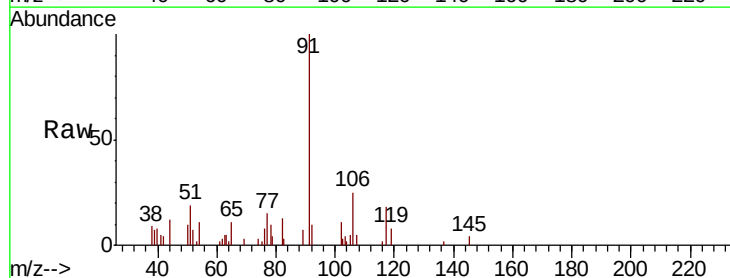
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2021

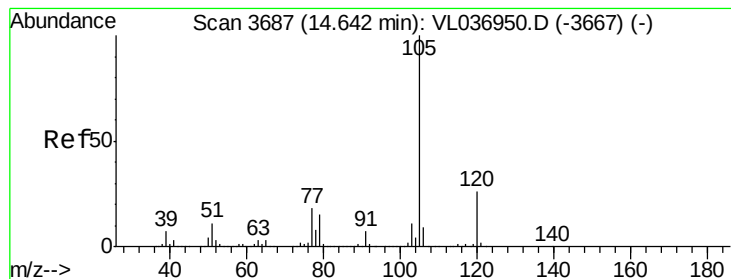
Tot Ion:117 Resp: 3298389
Ion Ratio Lower Upper
117 100
82 64.3 52.6 79.0
119 34.8 46.6 70.0#



#58
Ethyl Benzene
Concen: 0.043 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.00 min
Lab File: VL036967.D
Acq: 18 May 2021 13:51

Tgt Ion: 91 Resp: 20187
Ion Ratio Lower Upper
91 100
106 26.0 25.6 38.4





#62

Isopropylbenzene

Concen: 0.033 ppbv

RT: 14.64 min Scan# 3686

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

Instrument :

MSVOA_L

ClientSampleId :

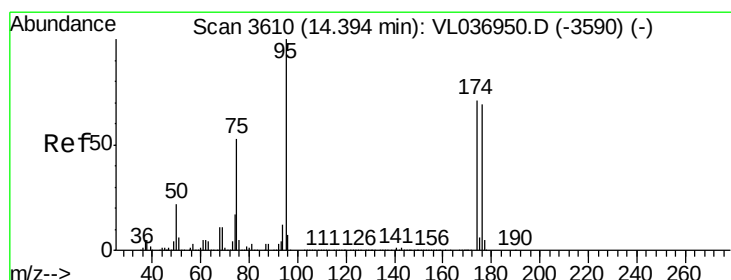
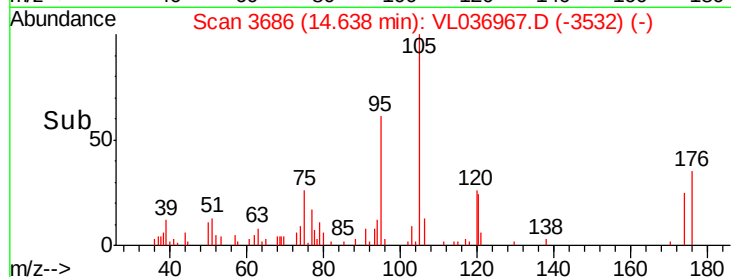
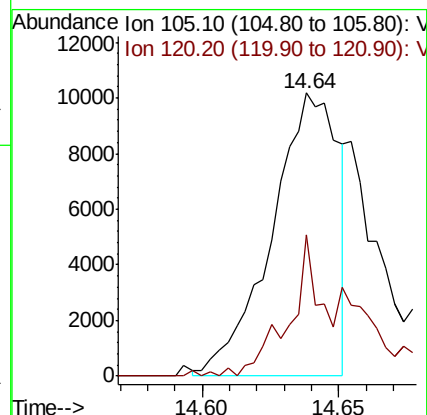
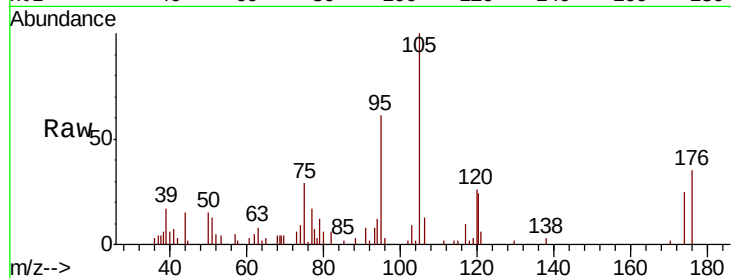
LOD-MDL-AIR-01-QT2-2021

Tot Ion:105 Resp: 17247

Ion Ratio Lower Upper

105 100

120 45.3 21.7 32.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.017 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036967.D

Acq: 18 May 2021 13:51

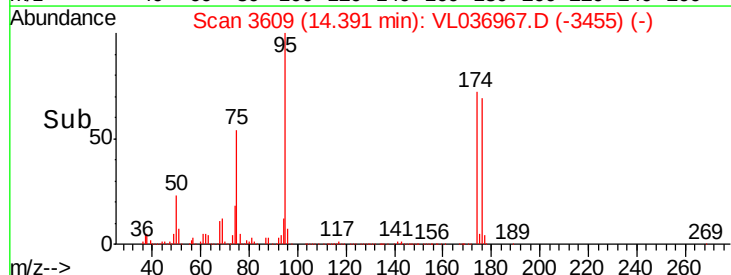
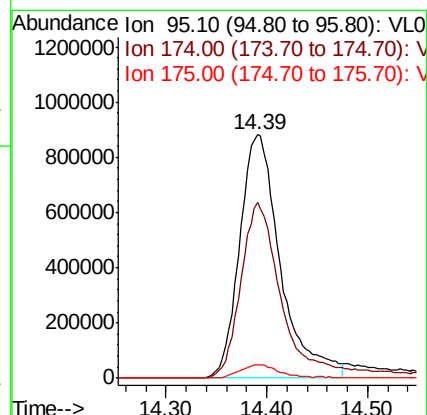
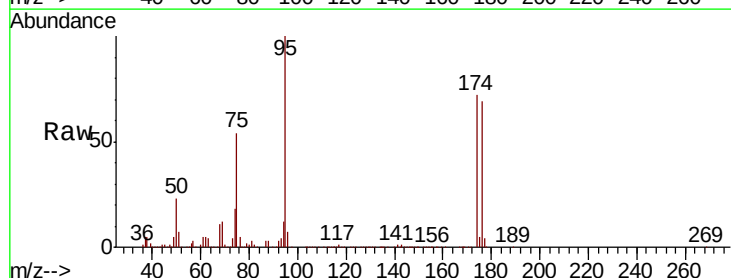
Tgt Ion: 95 Resp: 2482098

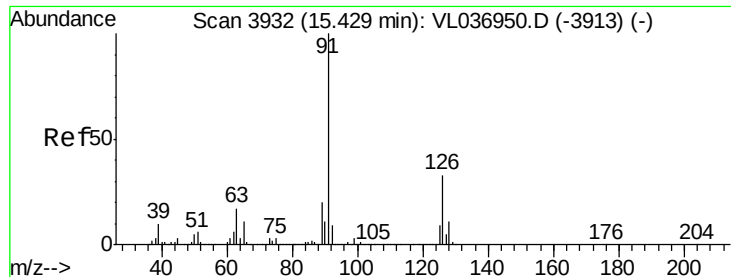
Ion Ratio Lower Upper

95 100

174 76.8 58.4 87.6

175 5.6 4.4 6.6





#71
 2-Chlorotoluene
 Concen: 0.032 ppbv
 RT: 15.44 min Scan# 3934
 Delta R.T. 0.01 min
 Lab File: VL036967.D
 Acq: 18 May 2021 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Tot Ion: 91 Resp: 12048
 Ion Ratio Lower Upper
 91 100
 126 55.7 13.1 52.5#

