

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036963.D
 Acq On : 18 May 2021 11:24
 Operator : SY/AP
 Sample : M2262-14 0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2021

Quant Time: May 19 03:11:42 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1239064	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3695377	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3397494	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2473868	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

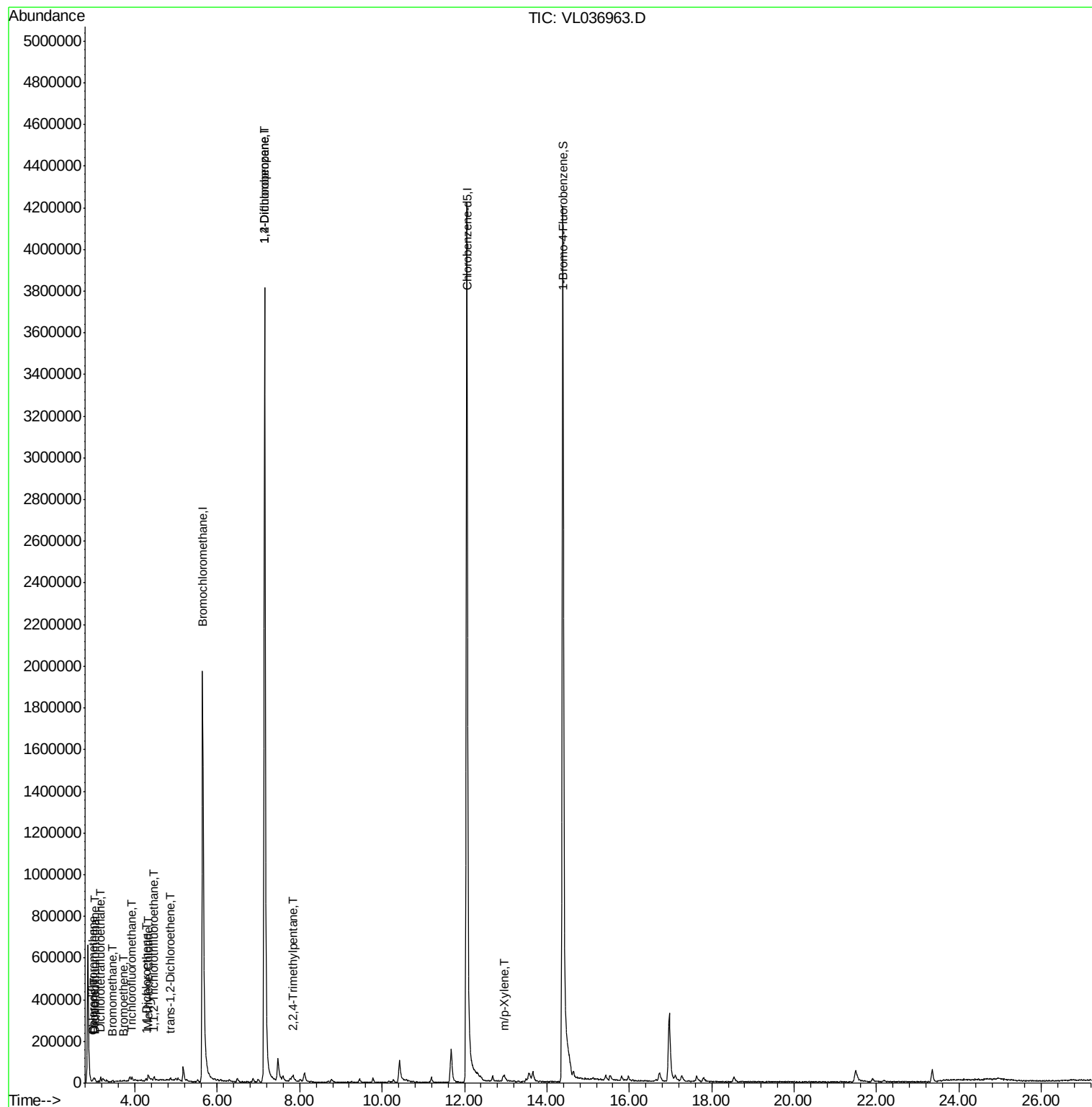
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	11533	0.055	ppbv 93
3) Chlorodifluoromethane	2.97	51	11356	0.050	ppbv 93
6) Bromomethane	3.46	94	1705	0.038	ppbv 94
8) Dichlorotetrafluoroethane	3.17	85	8620	0.044	ppbv 84
9) Propene	3.00	41	4725	0.058	ppbv # 4
11) Trichlorofluoromethane	3.93	101	8746	0.045	ppbv # 72
12) 1,1,2-Trichlorotrifluoroet	4.46	101	6190	0.045	ppbv 89
14) Bromoethene	3.72	108	2495	0.041	ppbv # 67
18) 1,1-Dichloroethene	4.27	96	2998	0.047	ppbv # 74
20) Methylene Chloride	4.32	84	8265	0.121	ppbv 96
22) trans-1,2-Dichloroethene	4.86	96	2174	0.035	ppbv # 64
39) 1,2-Dichloropropane	7.15	63	857189	6.991	ppbv # 25
44) 2,2,4-Trimethylpentane	7.84	57	26186	0.048	ppbv # 88
59) m/p-Xylene	12.97	91	12123	0.031	ppbv # 38

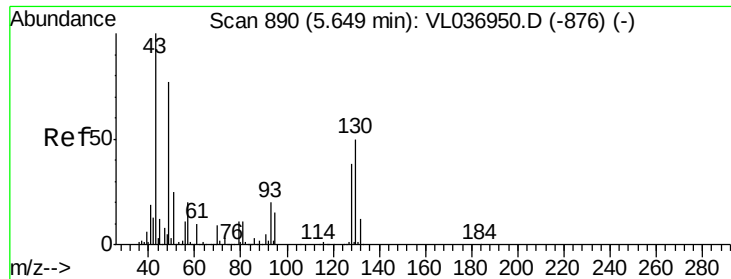
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.64 min Scan# 888

Delta R.T. -0.01 min

Lab File: VL036963.D

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MSVOA_L

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LOQ-AIR-02-QT2-2021

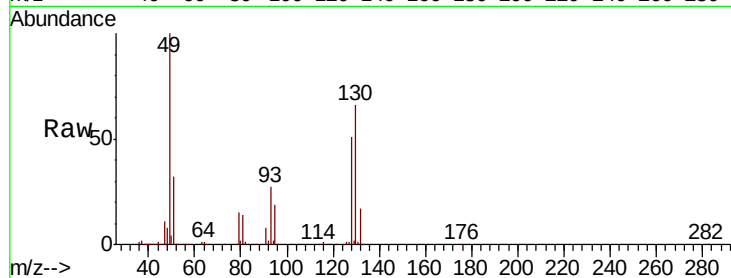
Tot Ion: 49 Resp: 1239064

Ion Ratio Lower Upper

49 100

128 56.0 26.9 80.7

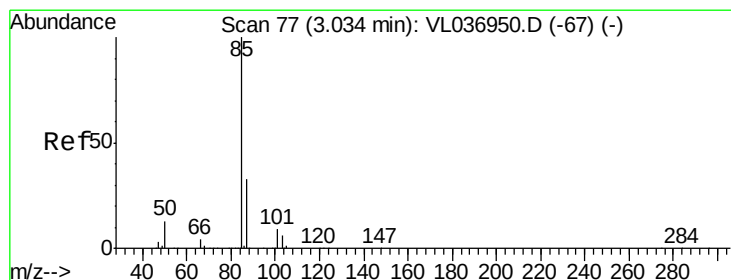
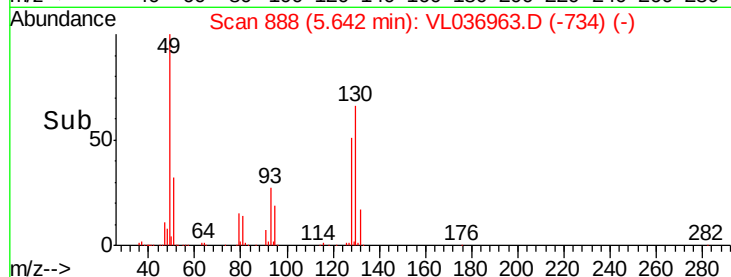
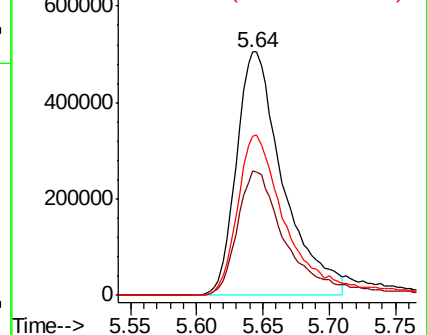
130 72.9 33.8 101.4



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



#2

Dichlorodifluoromethane

Concen: 0.055 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036963.D

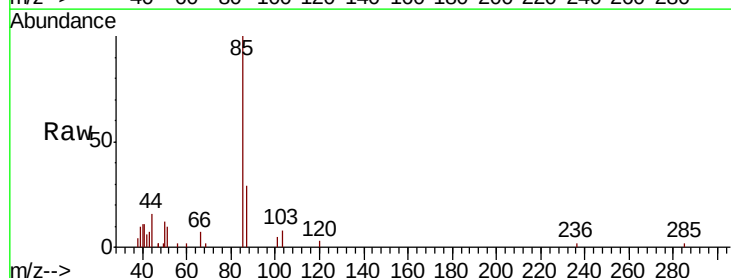
Acq: 18 May 2021 11:24

Tgt Ion: 85 Resp: 11533

Ion Ratio Lower Upper

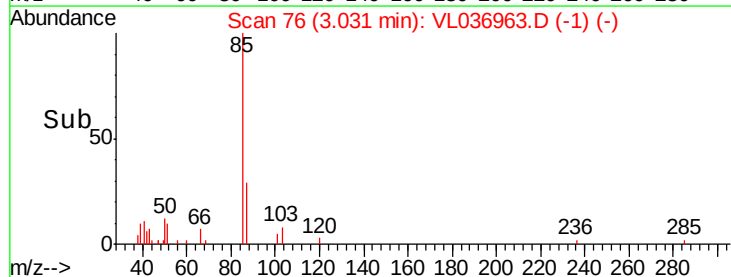
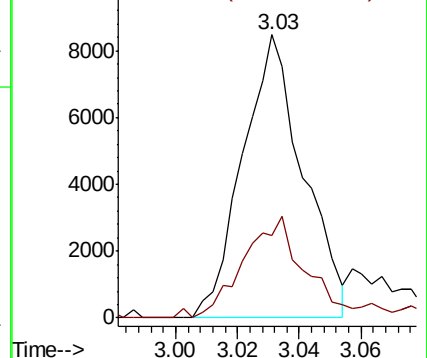
85 100

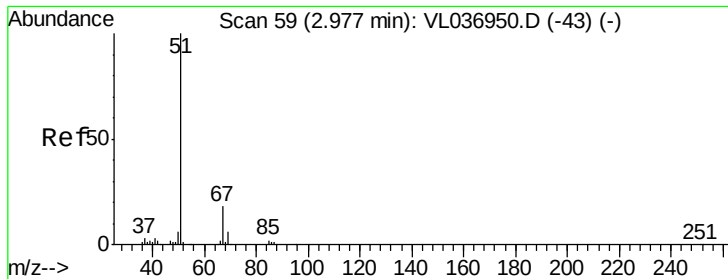
87 29.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.050 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

Instrument :

MSVOA_L

ClientSampleId :

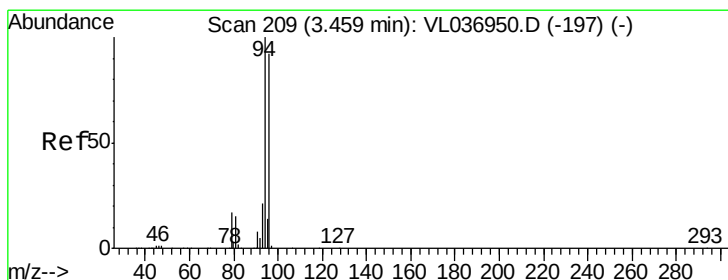
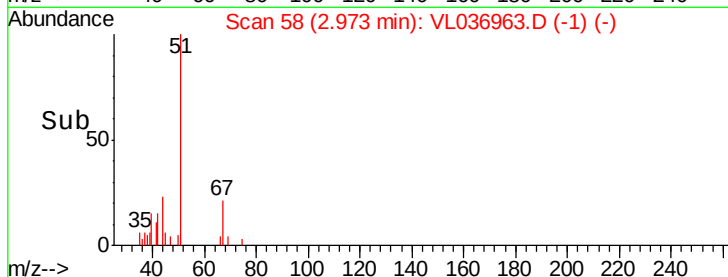
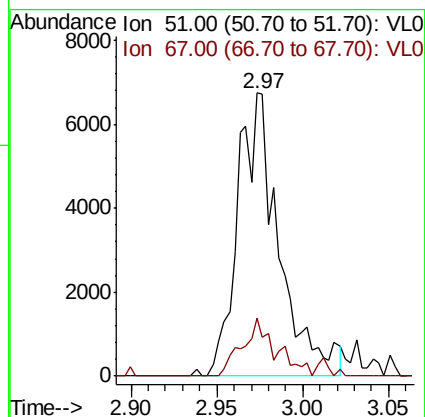
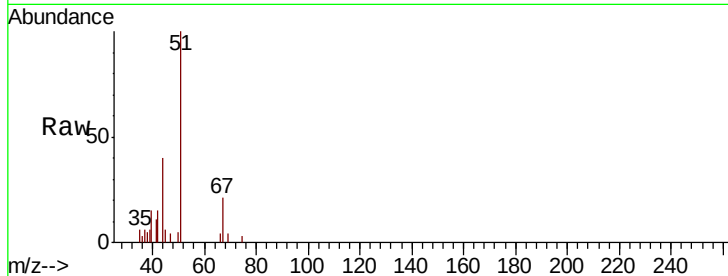
LOQ-AIR-02-QT2-2021

Tot Ion: 51 Resp: 11356

Ion Ratio Lower Upper

51 100

67 15.0 14.6 21.8



#6

Bromomethane

Concen: 0.038 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL036963.D

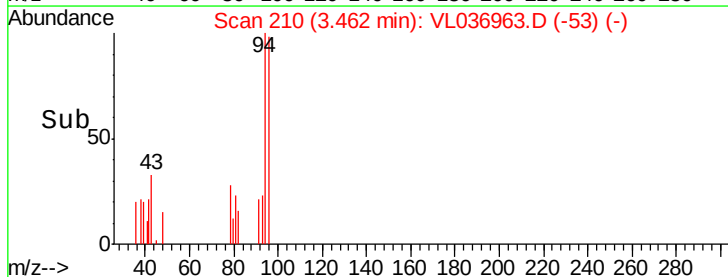
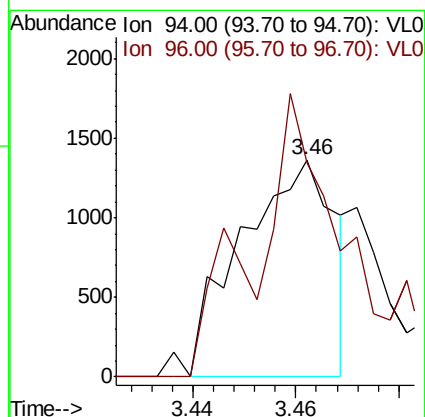
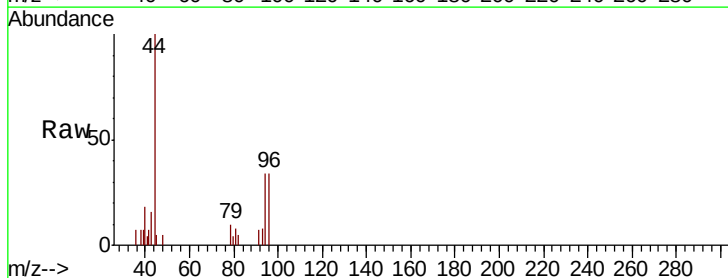
Acq: 18 May 2021 11:24

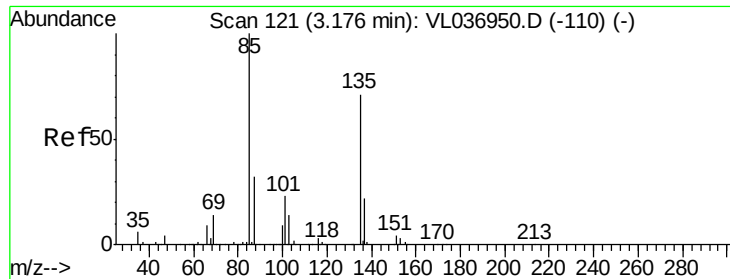
Tgt Ion: 94 Resp: 1705

Ion Ratio Lower Upper

94 100

96 98.4 74.0 111.0





#8

Dichlorotetrafluoroethane

Concen: 0.044 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

Instrument :

MSVOA_L

ClientSampleId :

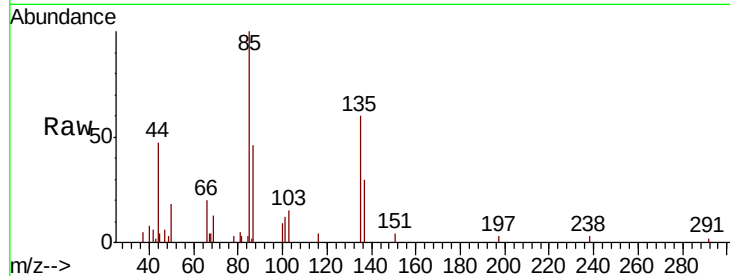
LOQ-AIR-02-QT2-2021

Tot Ion: 85 Resp: 8620

Ion Ratio Lower Upper

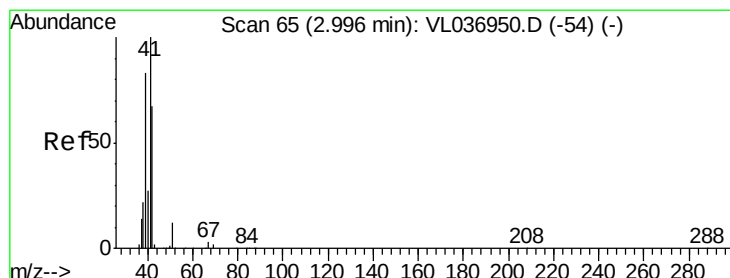
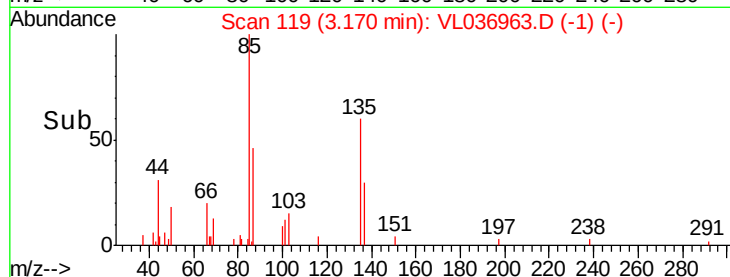
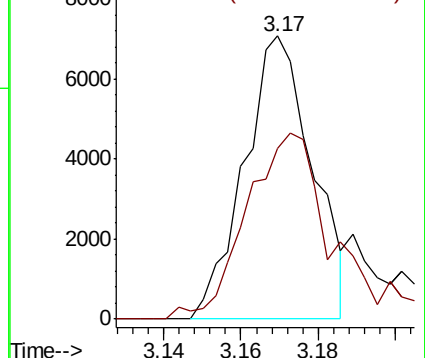
85 100

135 85.2 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: 0.058 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL036963.D

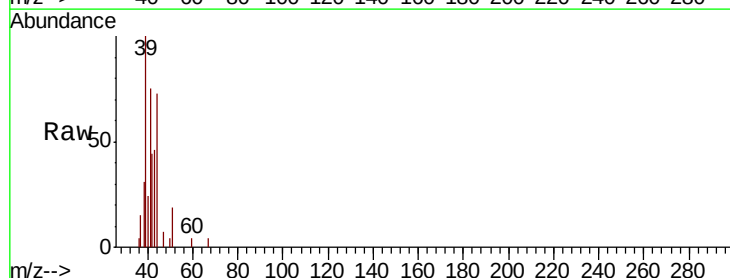
Acq: 18 May 2021 11:24

Tgt Ion: 41 Resp: 4725

Ion Ratio Lower Upper

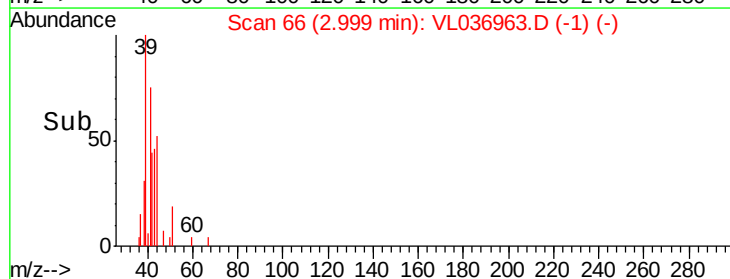
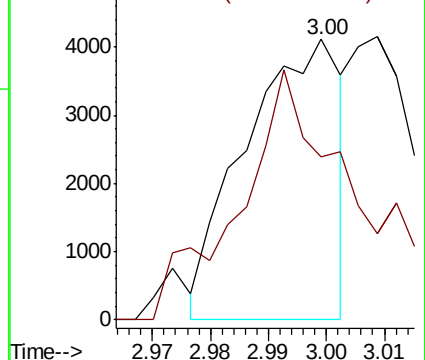
41 100

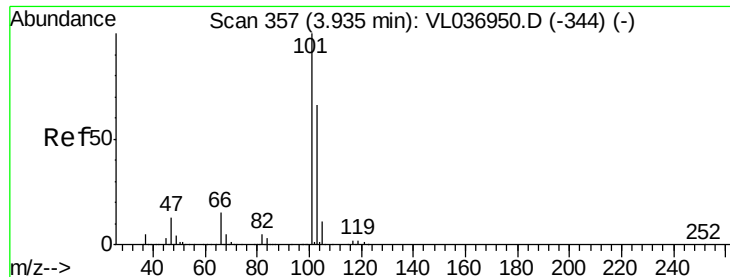
42 144.5 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.045 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.00 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

Instrument :

MSVOA_L

ClientSampleId :

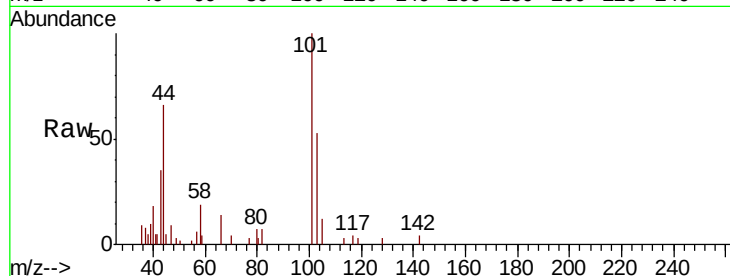
LOQ-AIR-02-QT2-2021

Tot Ion:101 Resp: 8746

Ion Ratio Lower Upper

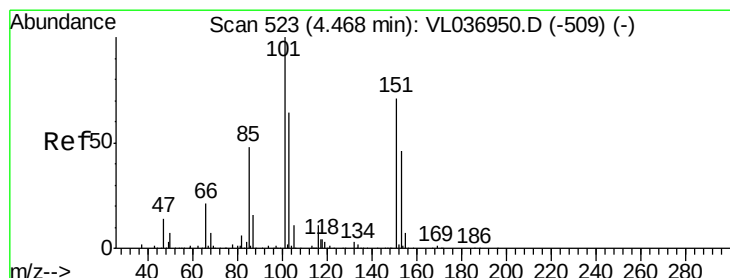
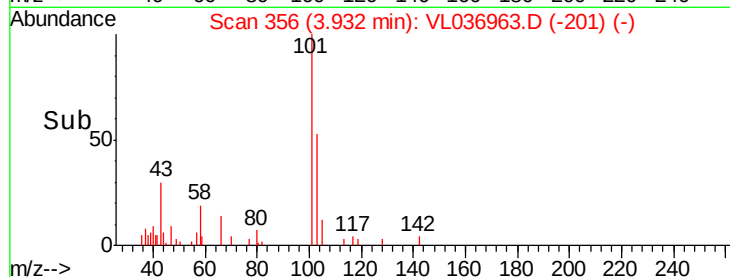
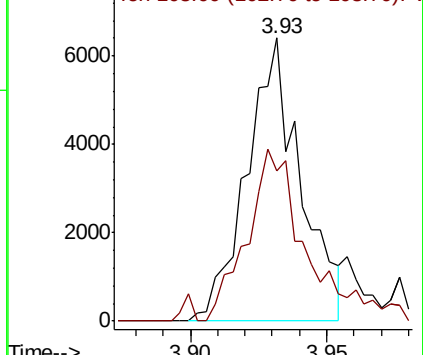
101 100

103 43.3 52.6 79.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.045 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.01 min

Lab File: VL036963.D

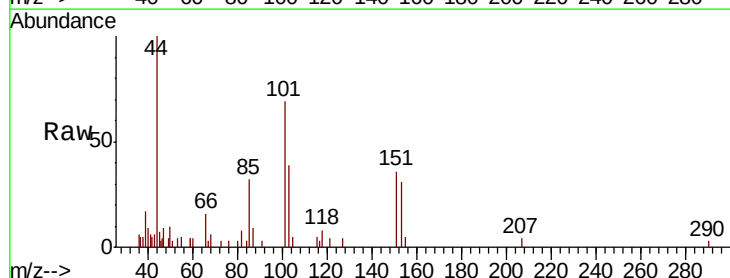
Acq: 18 May 2021 11:24

Tgt Ion:101 Resp: 6190

Ion Ratio Lower Upper

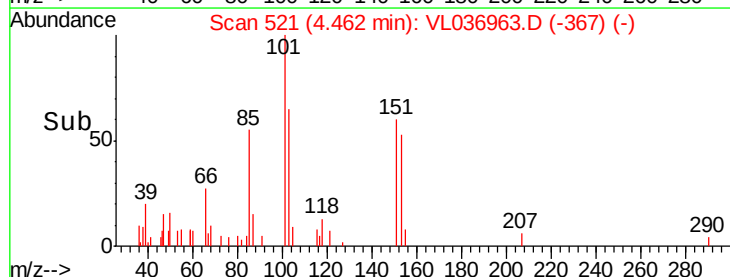
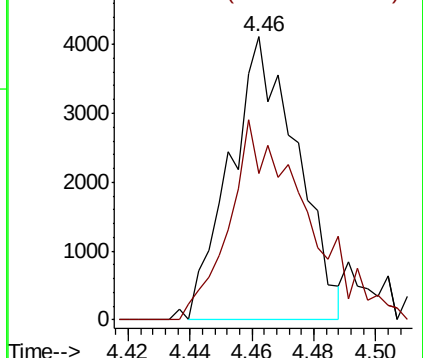
101 100

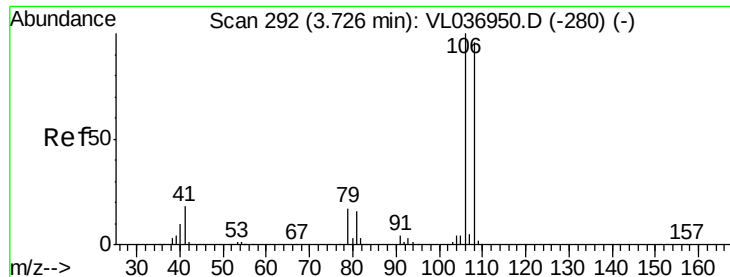
151 81.0 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.041 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.00 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

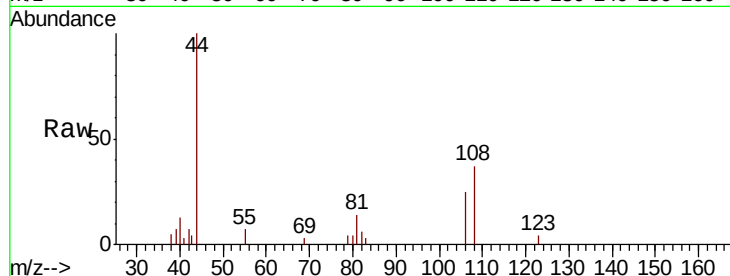
Tot Ion:108 Resp: 2495

Ion Ratio Lower Upper

108 100

106 140.6 86.5 129.7#

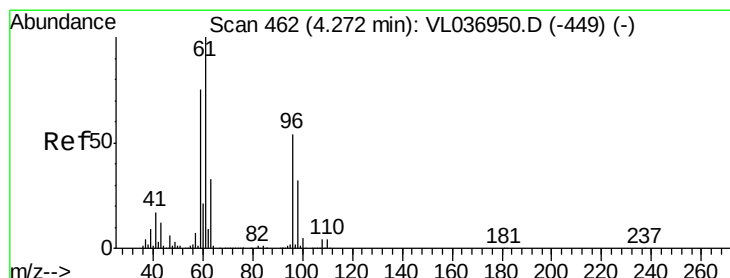
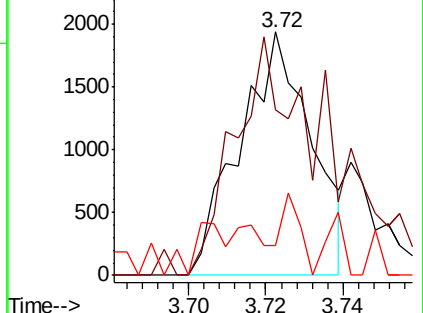
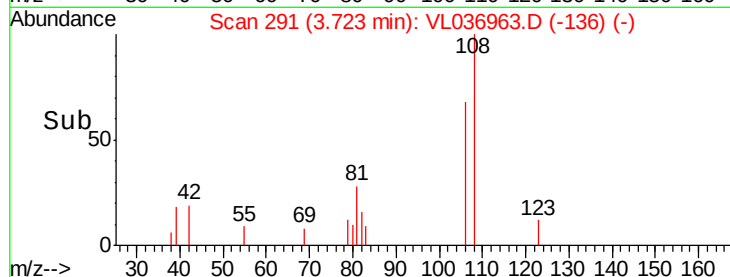
79 38.2 15.0 22.4#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO



#18

1,1-Dichloroethene

Concen: 0.047 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

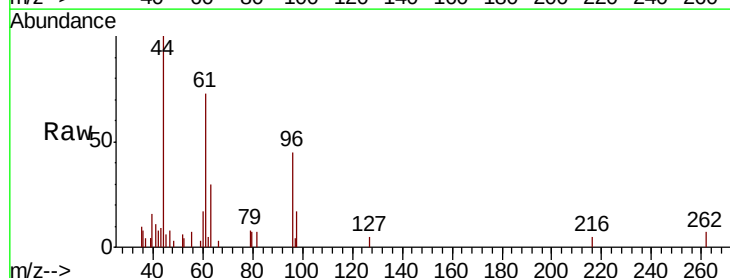
Tgt Ion: 96 Resp: 2998

Ion Ratio Lower Upper

96 100

61 151.2 148.2 222.4

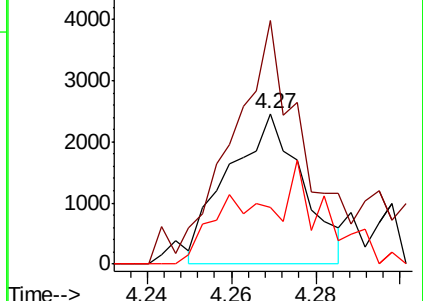
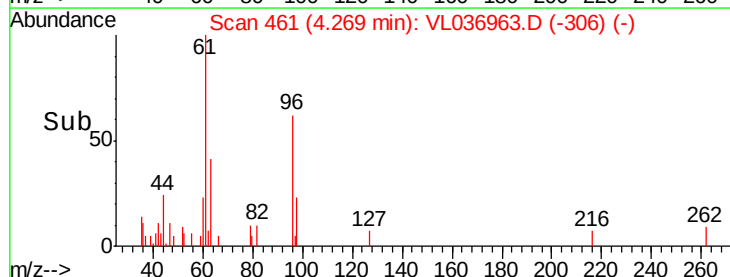
98 34.3 47.8 71.6#

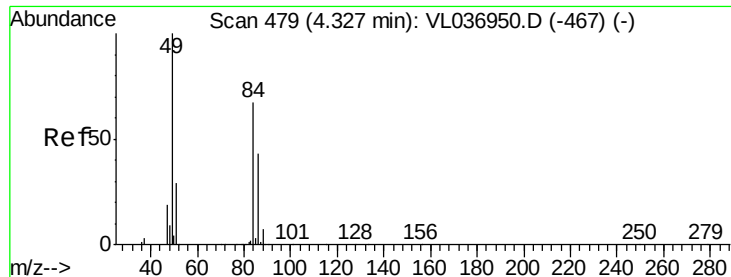


Abundance Ion 96.00 (95.70 to 96.70): VLO

Ion 61.10 (60.80 to 61.80): VLO

Ion 98.00 (97.70 to 98.70): VLO

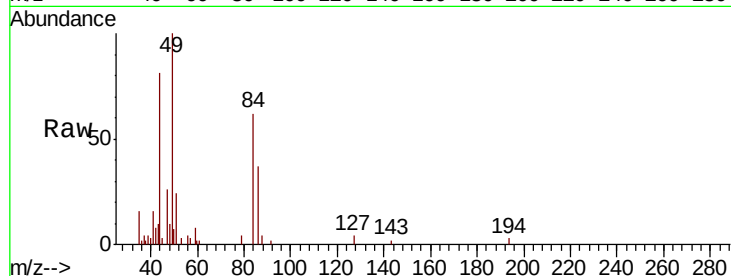




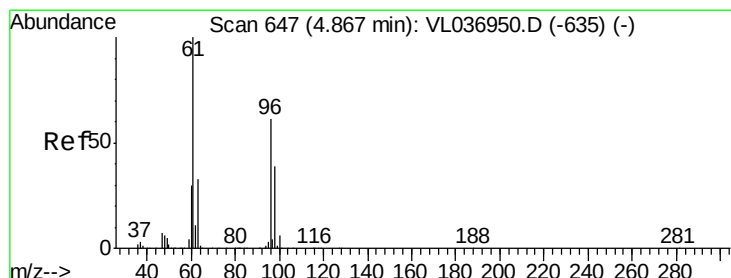
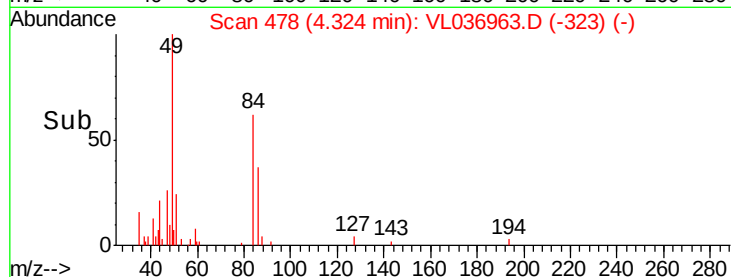
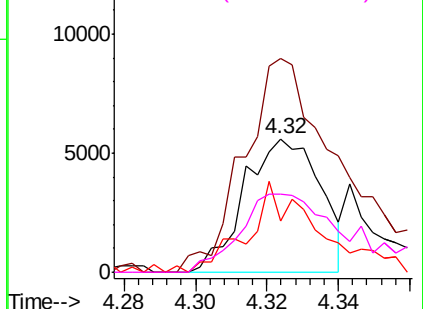
#20
Methylene Chloride
Concen: 0.121 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL036963.D
Acq: 18 May 2021 11:24

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2021

Tot Ion:	84	Resp:	8265
Ion	Ratio	Lower	Upper
84	100		
49	148.1	119.8	179.6
51	38.6	35.1	52.7
86	58.6	50.9	76.3

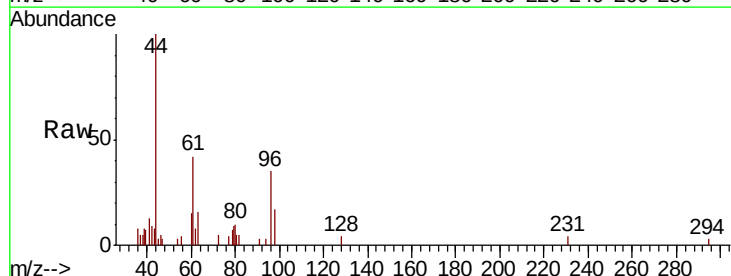


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

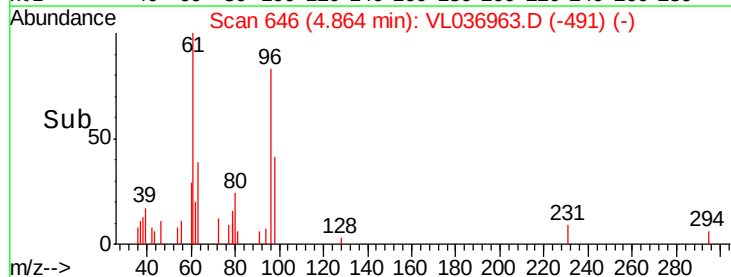
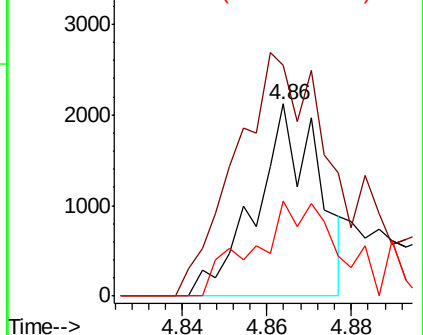


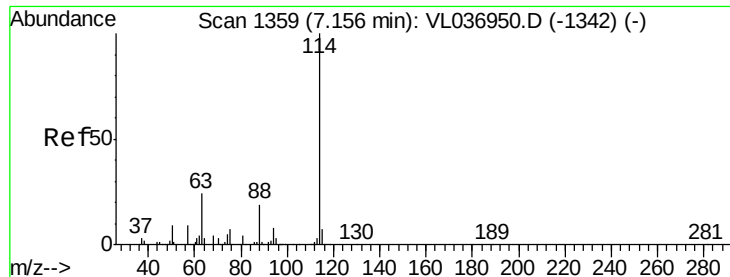
#22
trans-1,2-Dichloroethene
Concen: 0.035 ppbv
RT: 4.86 min Scan# 646
Delta R.T. -0.00 min
Lab File: VL036963.D
Acq: 18 May 2021 11:24

Tgt Ion:	96	Resp:	2174
Ion	Ratio	Lower	Upper
96	100		
61	105.9	130.6	196.0#
98	49.4	50.8	76.2#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0

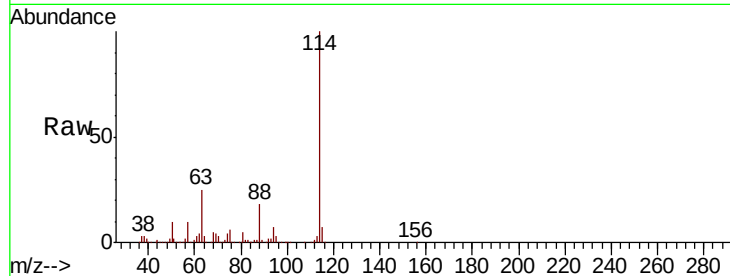




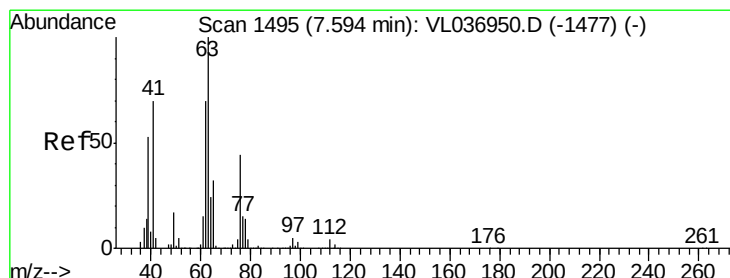
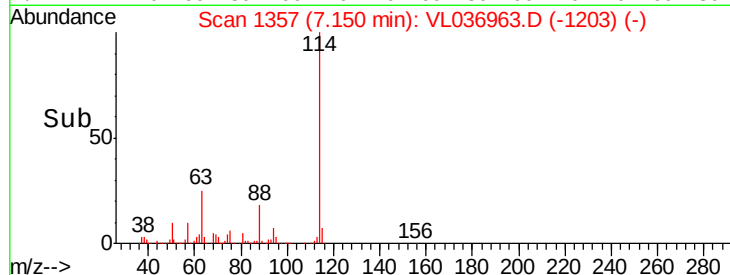
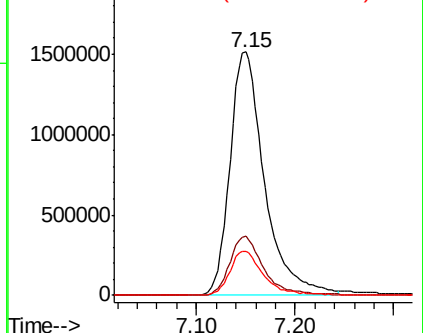
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2021

Tot Ion:114 Resp: 3695377
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.6 29.4
 88 18.1 14.6 21.8

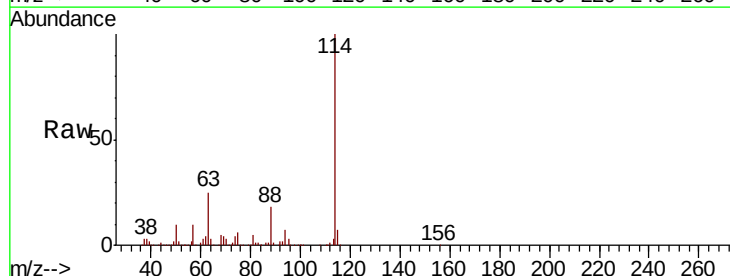


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

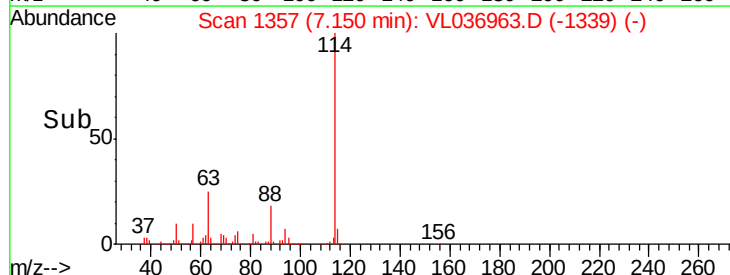
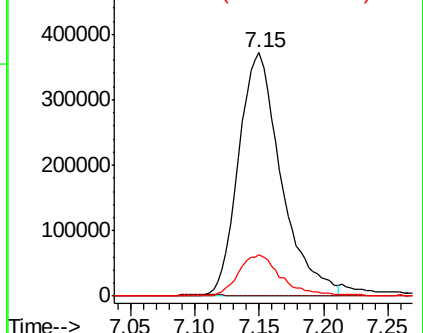


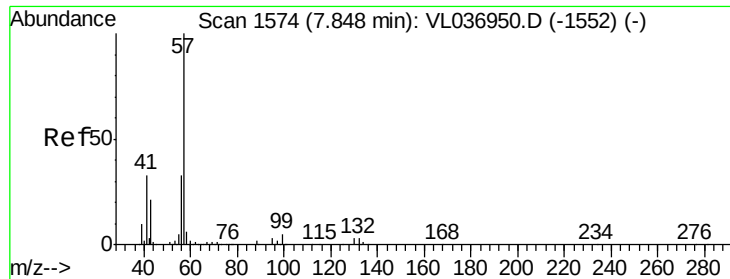
#39
 1,2-Dichloropropane
 Concen: 6.991 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.44 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Tgt Ion: 63 Resp: 857189
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.7 83.5#
 62 16.9 56.2 84.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

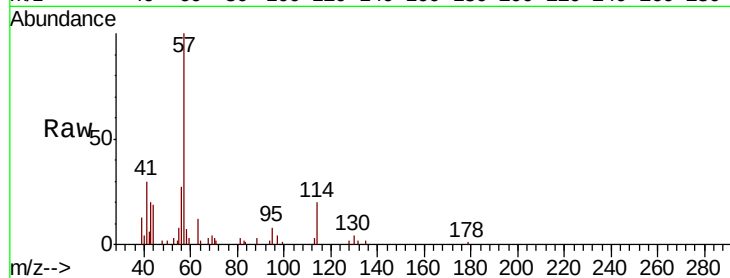




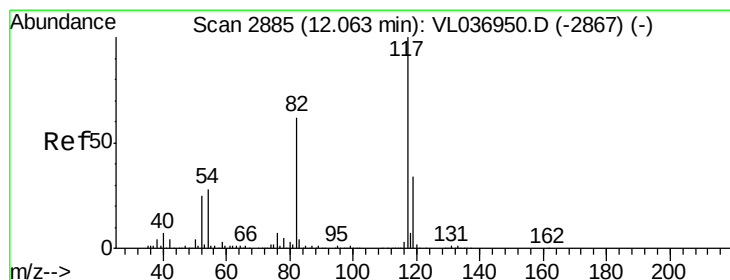
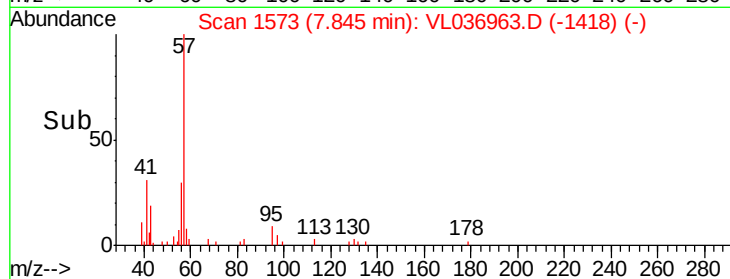
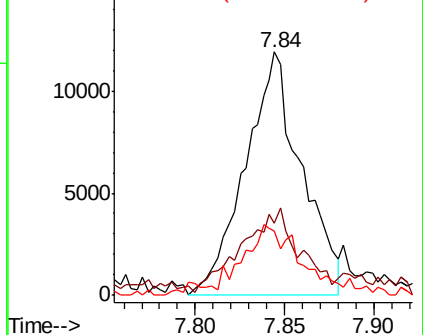
#44
 2,2,4-Trimethylpentane
 Concen: 0.048 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2021

Tot Ion	57	Resp	26186
Ion Ratio	Lower	Upper	
57	100		
41	46.1	27.0	40.4#
56	33.3	25.4	38.2

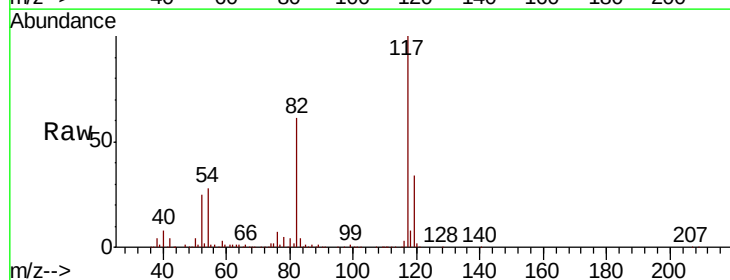


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

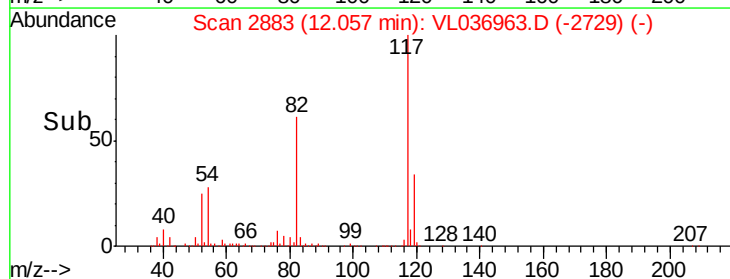
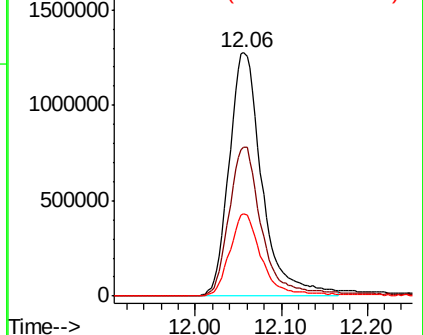


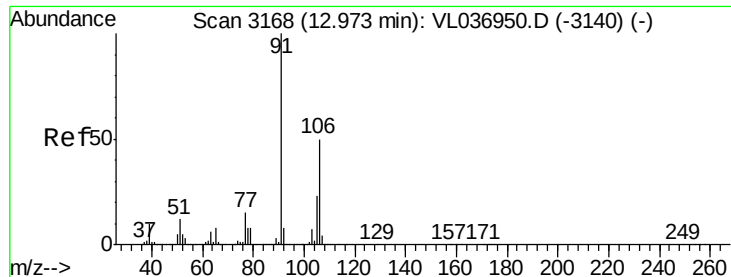
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min Scan# 2883
 Delta R.T. -0.01 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Tgt Ion	117	Resp	3397494
Ion Ratio	Lower	Upper	
117	100		
82	62.8	52.6	79.0
119	33.8	46.6	70.0#



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

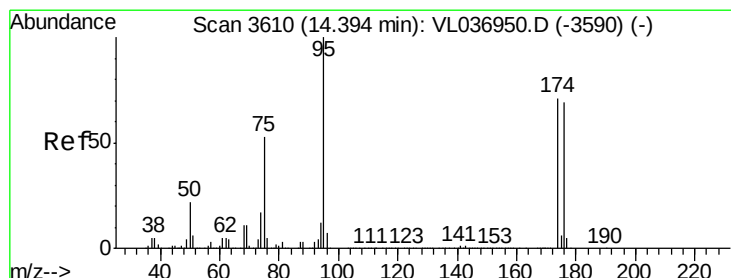
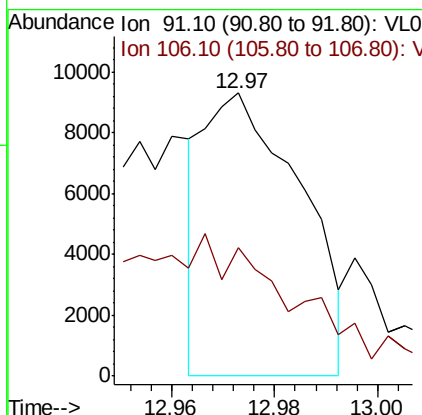
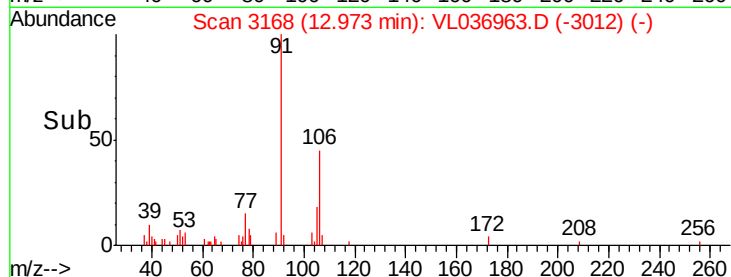
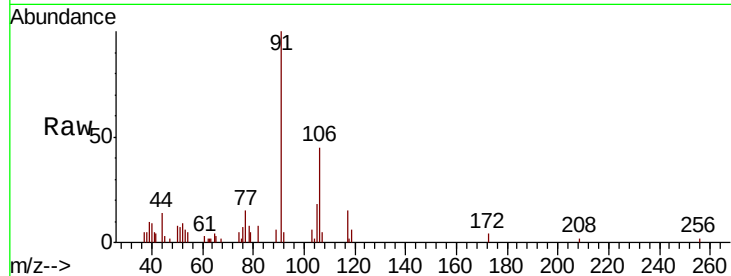




#59
m/p-Xylene
Concen: 0.031 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VL036963.D
Acq: 18 May 2021 11:24

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2021

Tot Ion: 91 Resp: 12123
Ion Ratio Lower Upper
91 100
106 88.2 37.4 56.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.693 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.01 min
Lab File: VL036963.D
Acq: 18 May 2021 11:24

Tgt Ion: 95 Resp: 2473868
Ion Ratio Lower Upper
95 100
174 78.7 58.4 87.6
175 5.8 4.4 6.6

