

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030221\
 Data File : VL036430.D
 Acq On : 2 Mar 2021 15:26
 Operator : SY/AP
 Sample : M1458-15 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2021

Quant Time: Mar 03 03:12:39 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	5.65	49	1582693	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3422822	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3135876	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2444720	9.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

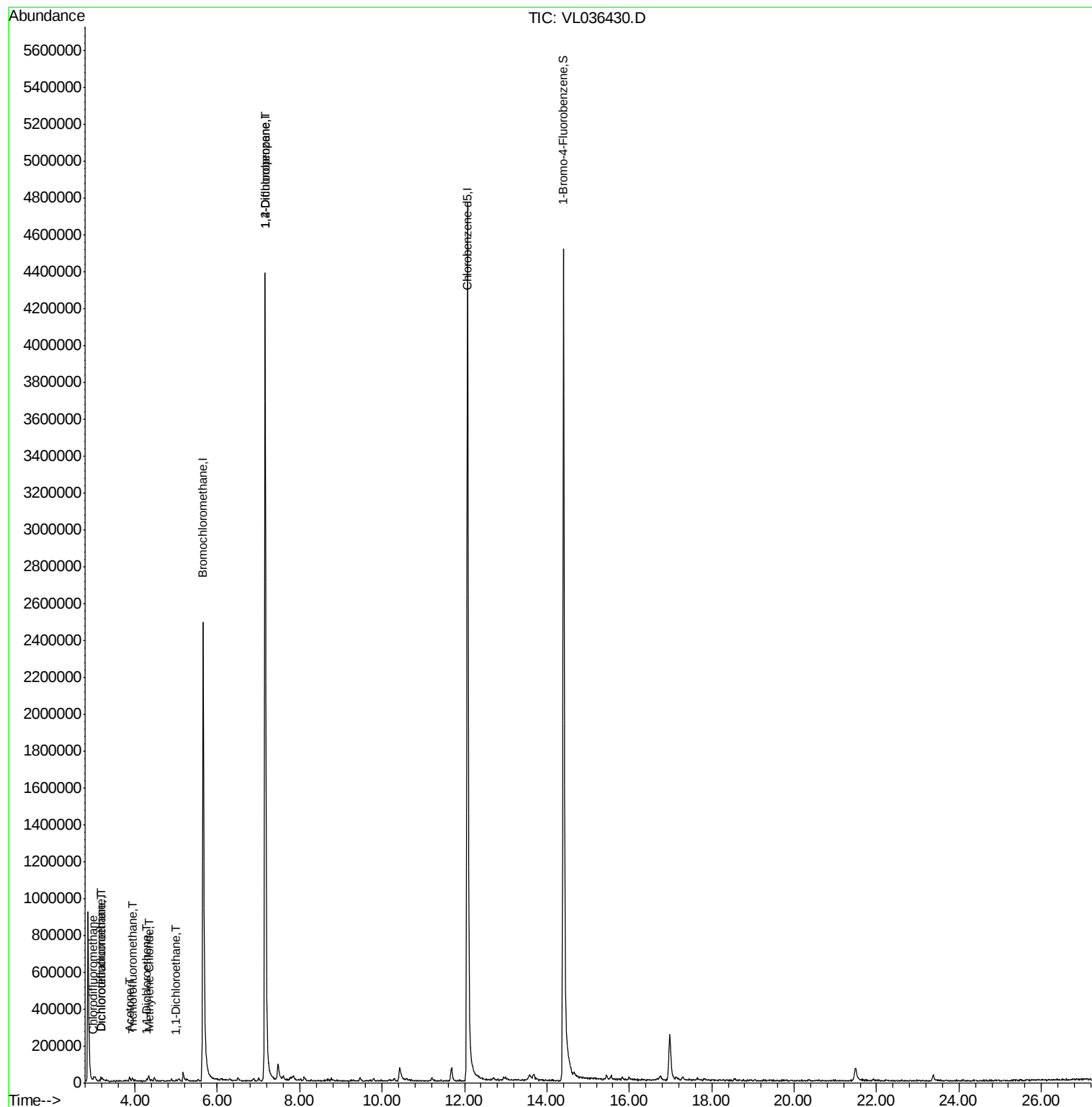
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	7822	0.033	ppbv	97
3) Chlorodifluoromethane	2.98	51	9931	0.051	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	7822	0.036	ppbv	97
11) Trichlorofluoromethane	3.94	101	10760	0.047	ppbv #	80
15) Acetone	3.87	43	21442	0.111	ppbv #	5
18) 1,1-Dichloroethene	4.28	96	2421	0.037	ppbv #	38
20) Methylene Chloride	4.34	84	6149	0.099	ppbv #	55
24) 1,1-Dichloroethane	5.00	63	6113	0.036	ppbv #	87
39) 1,2-Dichloropropane	7.16	63	998490	8.454	ppbv #	22

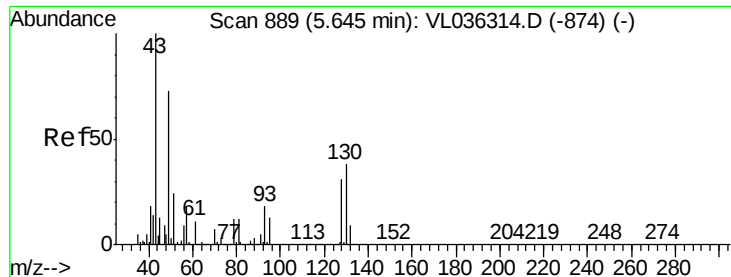
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL036430.D

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Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

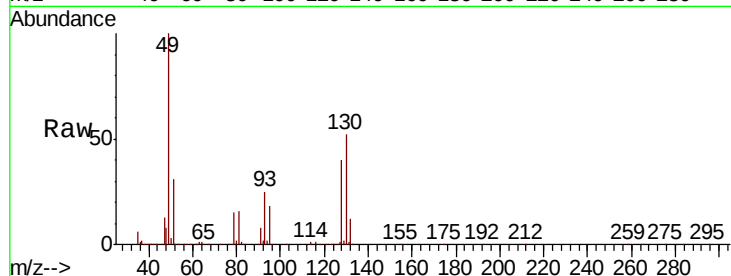
Tot Ion: 49 Resp: 1582693

Ion Ratio Lower Upper

49 100

128 43.0 20.8 62.5

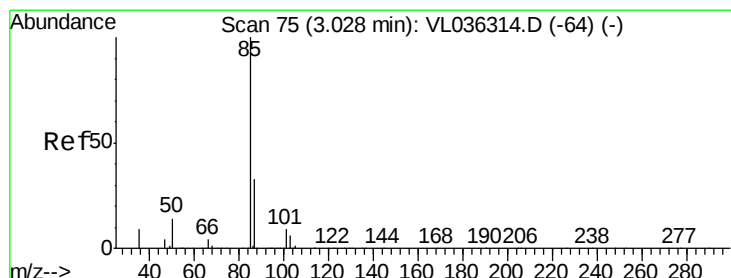
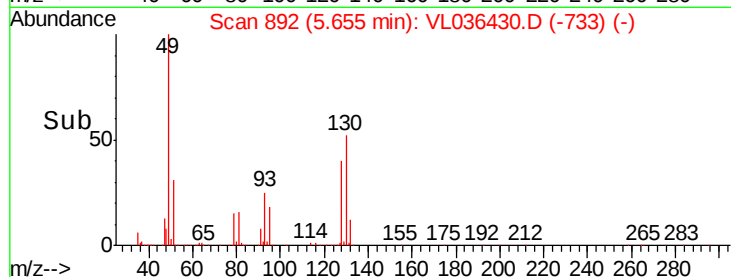
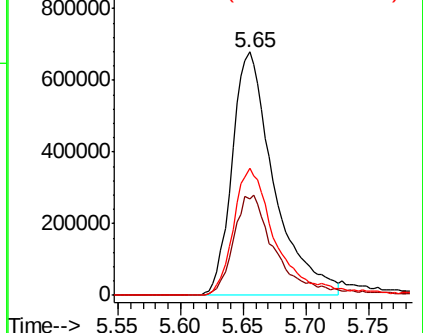
130 54.4 26.7 80.1



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: 0.033 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.15 min

Lab File: VL036430.D

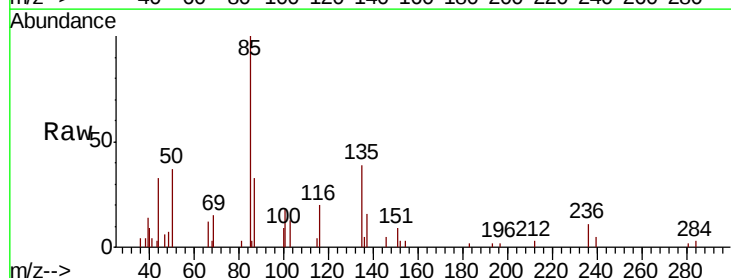
Acq: 2 Mar 2021 15:26

Tgt Ion: 85 Resp: 7822

Ion Ratio Lower Upper

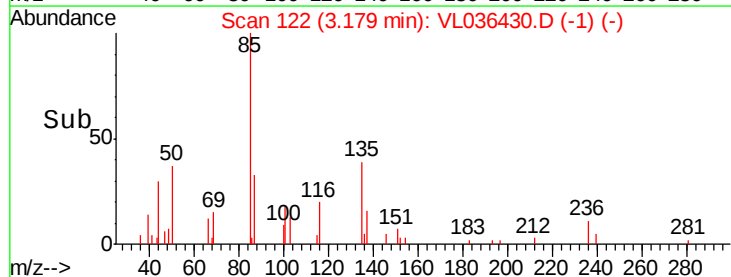
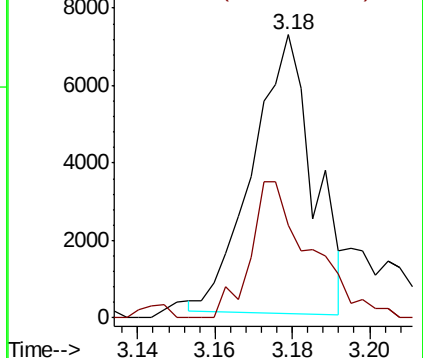
85 100

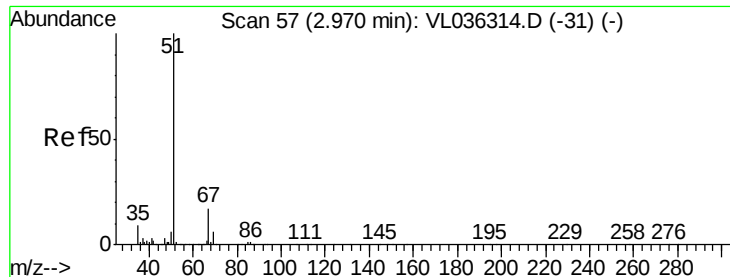
87 34.7 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL036430.D

Acq: 2 Mar 2021 15:26

Instrument :

MSVOA_L

ClientSampleId :

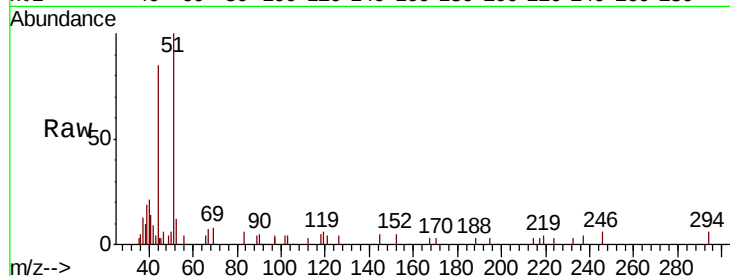
MDL-AIR-01-QT1-2021

Tot Ion: 51 Resp: 9931

Ion Ratio Lower Upper

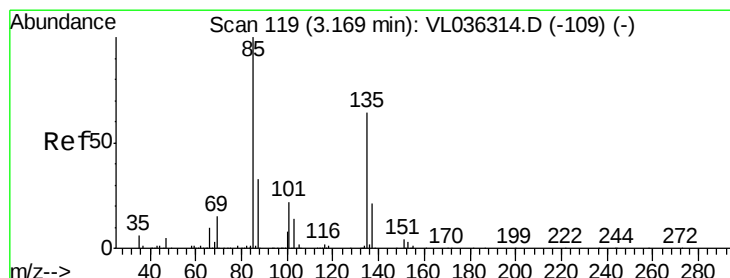
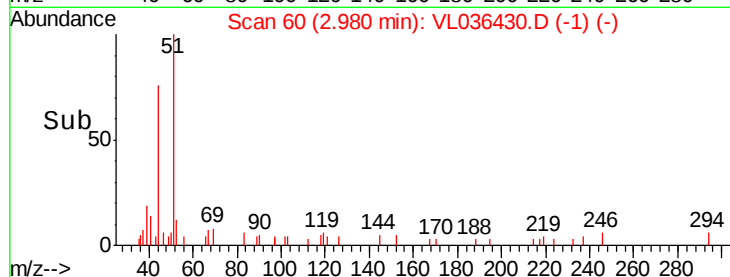
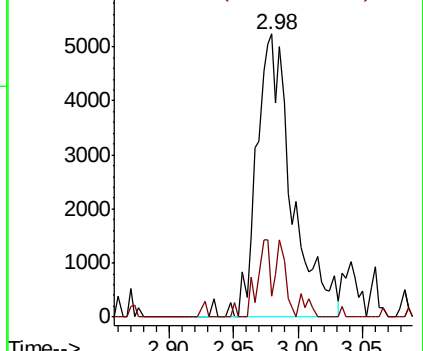
51 100

67 19.9 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.036 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.01 min

Lab File: VL036430.D

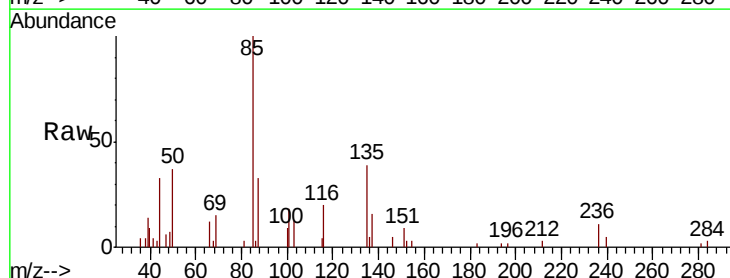
Acq: 2 Mar 2021 15:26

Tgt Ion: 85 Resp: 7822

Ion Ratio Lower Upper

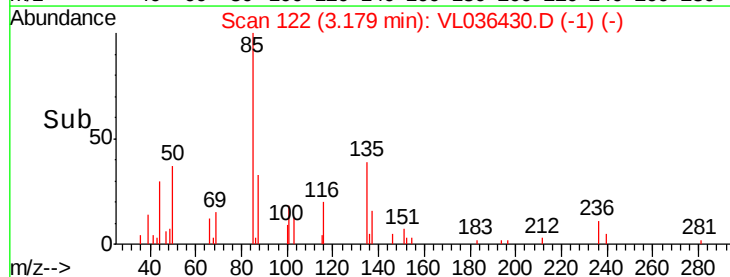
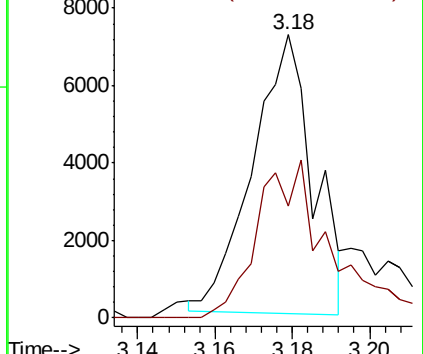
85 100

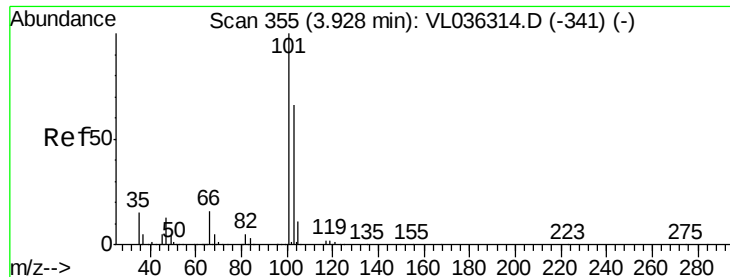
135 66.6 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#11

Trichlorofluoromethane

Concen: 0.047 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.01 min

Lab File: VL036430.D

Acq: 2 Mar 2021 15:26

Instrument :

MSVOA_L

ClientSampleId :

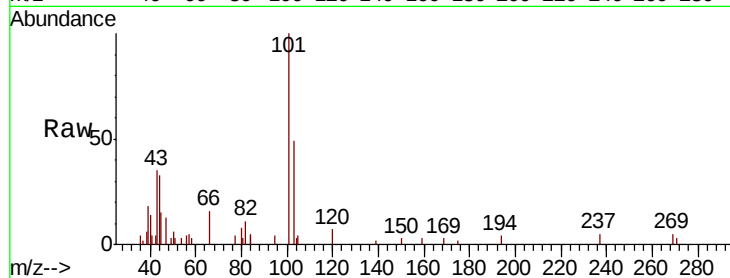
MDL-AIR-01-QT1-2021

Tot Ion:101 Resp: 10760

Ion Ratio Lower Upper

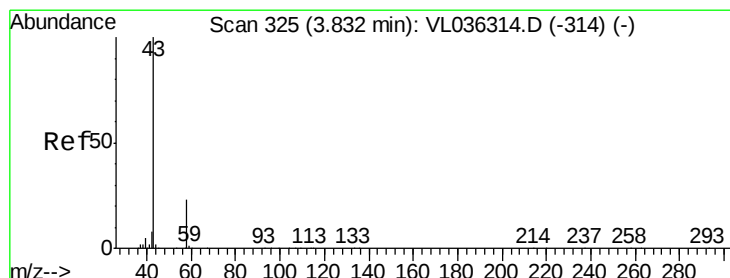
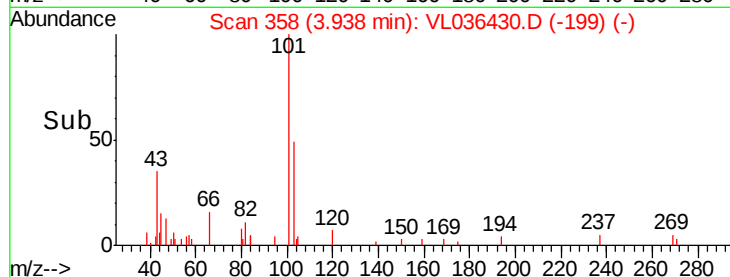
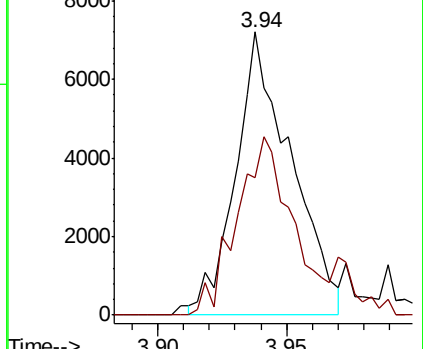
101 100

103 50.4 52.9 79.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#15

Acetone

Concen: 0.111 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.04 min

Lab File: VL036430.D

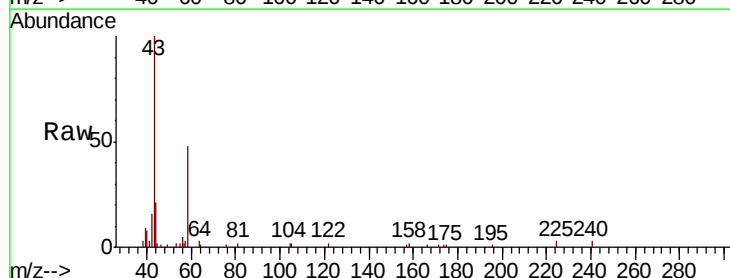
Acq: 2 Mar 2021 15:26

Tgt Ion: 43 Resp: 21442

Ion Ratio Lower Upper

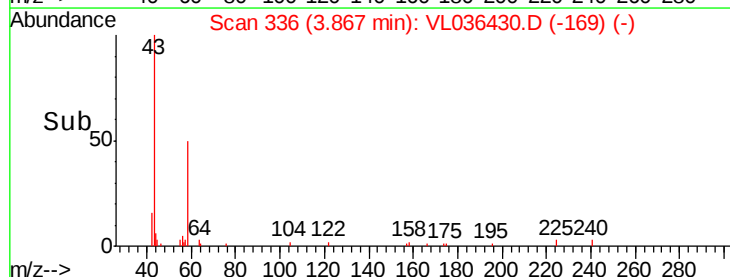
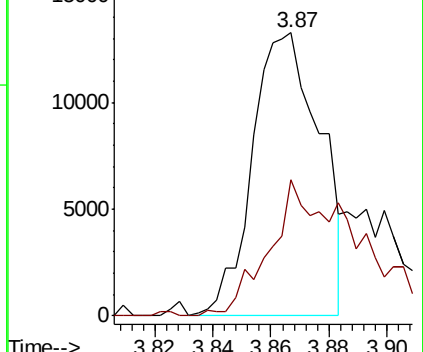
43 100

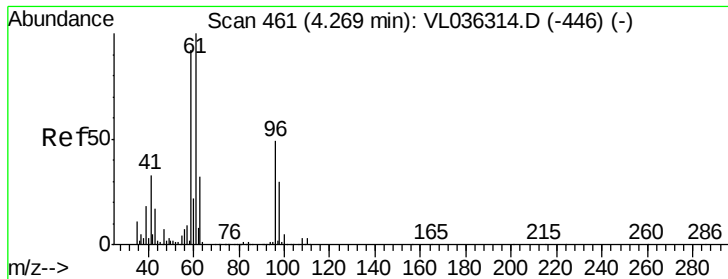
58 73.3 20.3 30.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

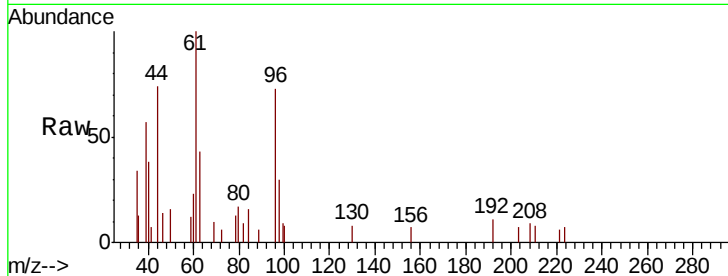




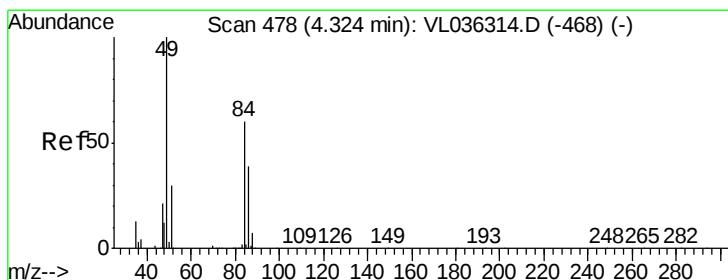
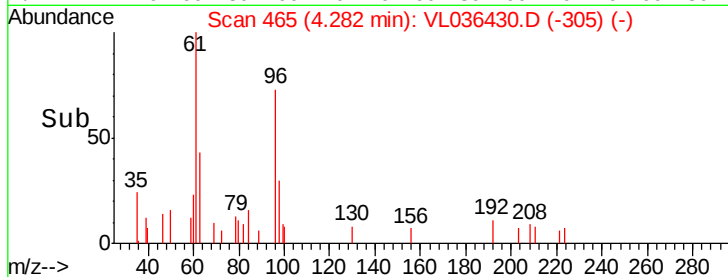
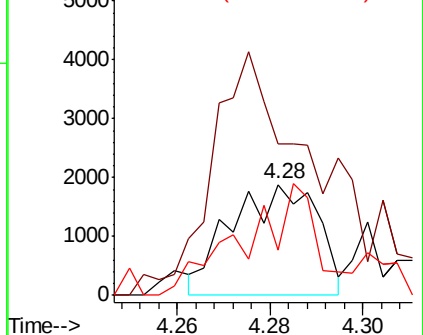
#18
 1,1-Dichloroethene
 Concen: 0.037 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. 0.01 min
 Lab File: VL036430.D
 Acq: 2 Mar 2021 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2021

Tot Ion: 96 Resp: 2421
 Ion Ratio Lower Upper
 96 100
 61 102.5 162.5 243.7#
 98 23.8 48.5 72.7#

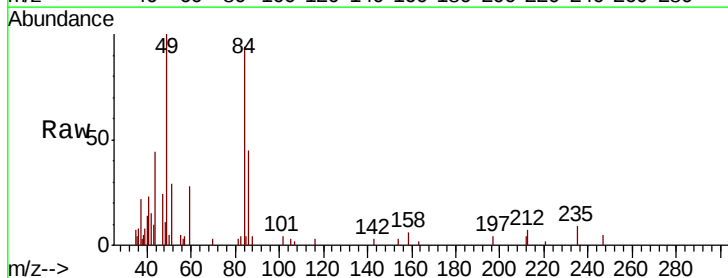


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

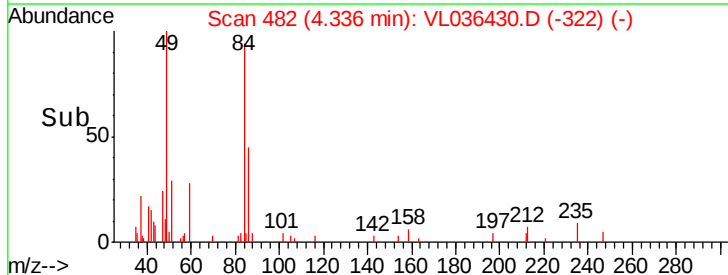
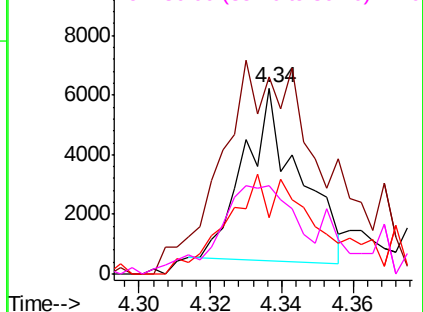


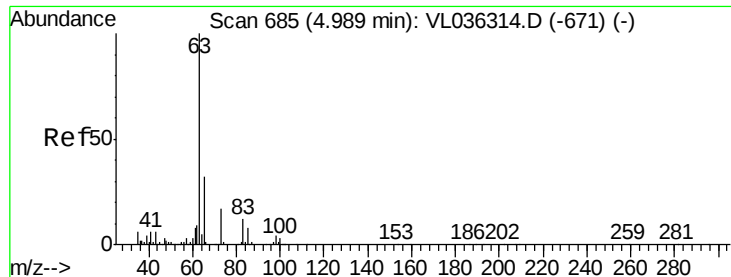
#20
 Methylene Chloride
 Concen: 0.099 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. 0.01 min
 Lab File: VL036430.D
 Acq: 2 Mar 2021 15:26

Tgt Ion: 84 Resp: 6149
 Ion Ratio Lower Upper
 84 100
 49 94.6 133.8 200.8#
 51 26.7 41.4 62.0#
 86 40.7 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





#24

1,1-Dichloroethane

Concen: 0.036 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL036430.D

Acq: 2 Mar 2021 15:26

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

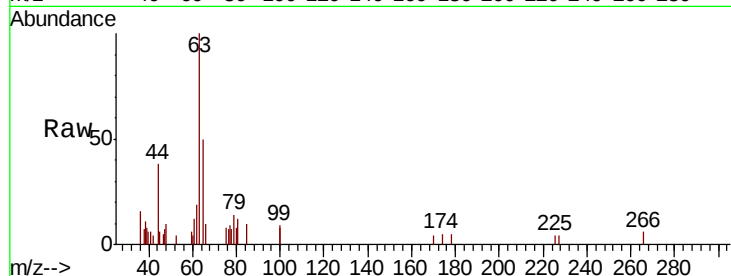
Tot Ion: 63 Resp: 6113

Ion Ratio Lower Upper

63 100

98 0.0 2.0 6.0#

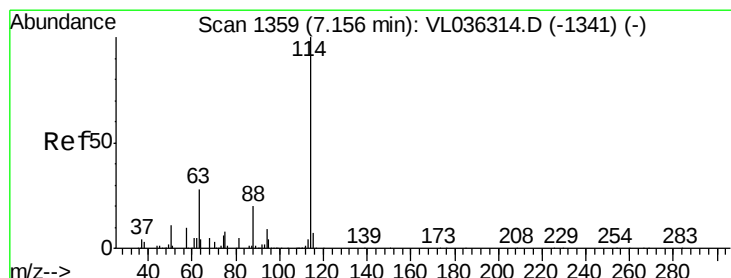
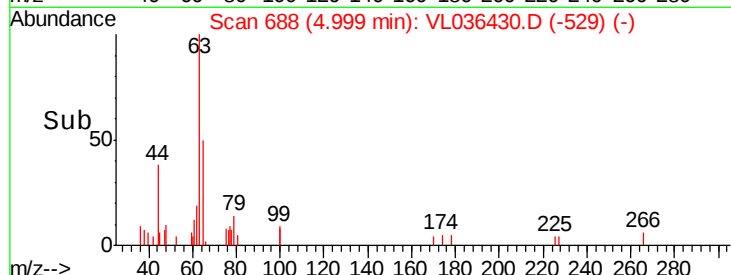
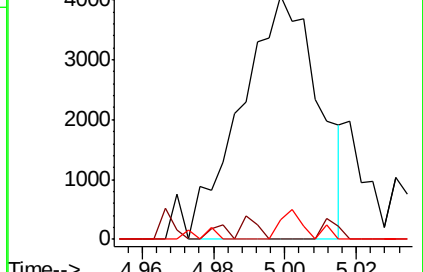
100 7.8 1.5 4.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. 0.01 min

Lab File: VL036430.D

Acq: 2 Mar 2021 15:26

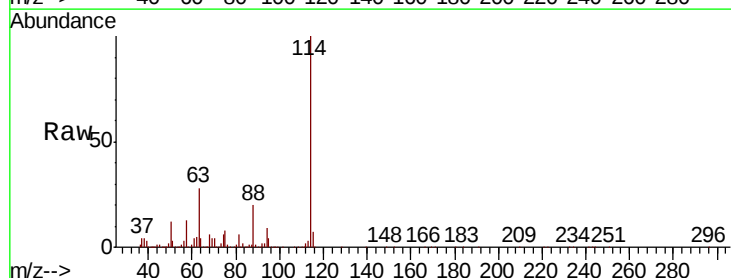
Tgt Ion: 114 Resp: 3422822

Ion Ratio Lower Upper

114 100

63 29.6 24.1 36.1

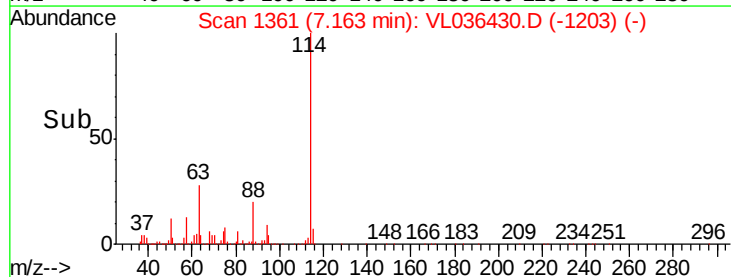
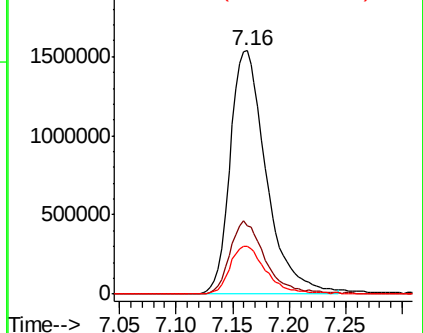
88 20.1 16.0 24.0

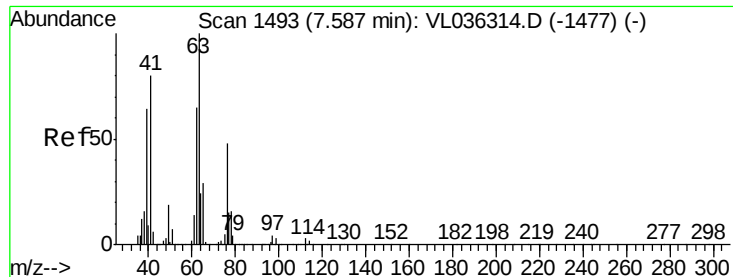


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

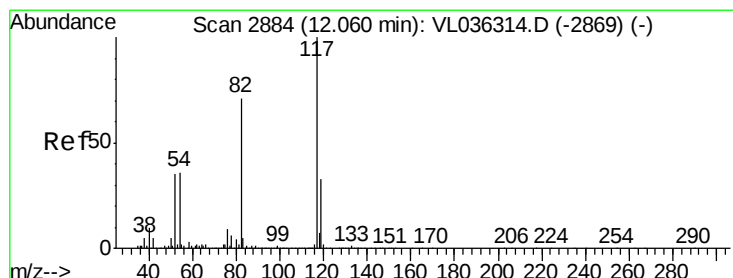
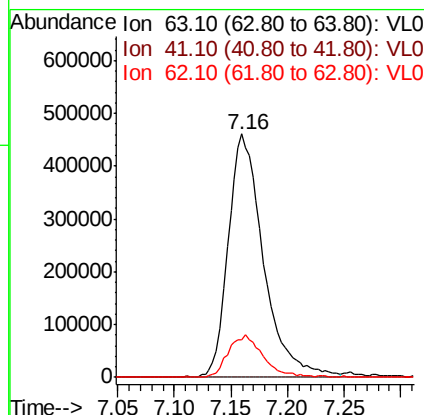
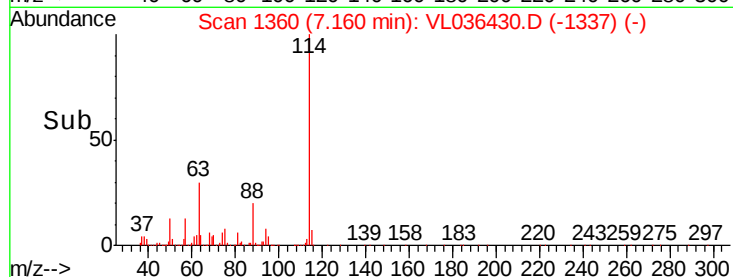
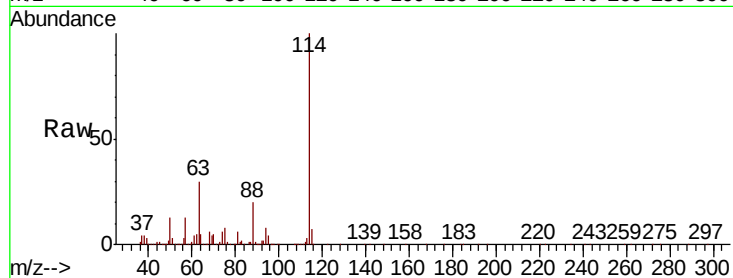




#39
 1,2-Dichloropropane
 Concen: 8.454 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL036430.D
 Acq: 2 Mar 2021 15:26

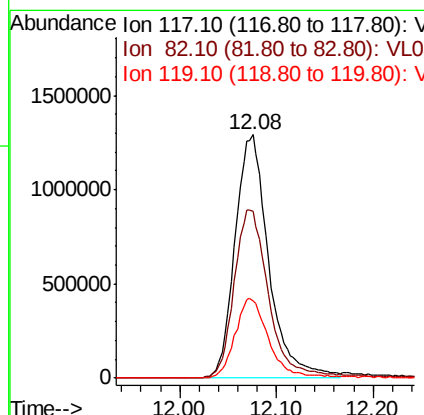
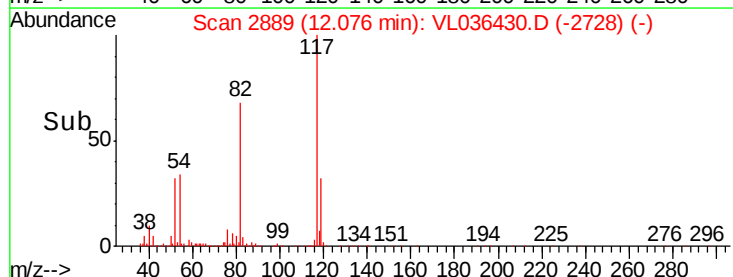
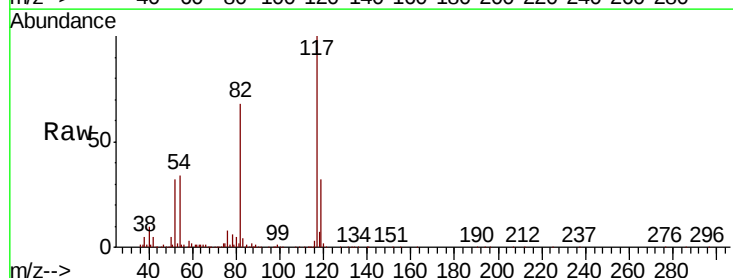
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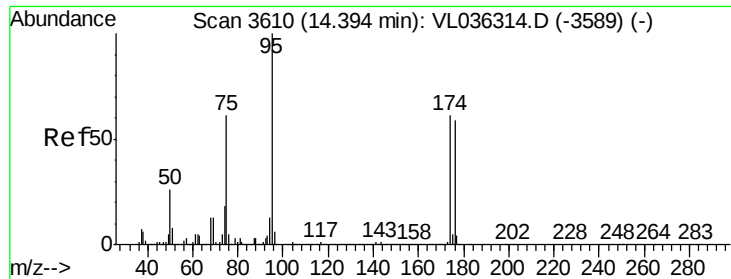
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.8	95.6#
62	15.5	52.3	78.5#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min Scan# 2889
 Delta R.T. 0.02 min
 Lab File: VL036430.D
 Acq: 2 Mar 2021 15:26

Tgt Ion	Ratio	Lower	Upper
117	100		
82	72.8	59.1	88.7
119	33.4	46.3	69.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.475 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. 0.01 min

Lab File: VL036430.D

Acq: 2 Mar 2021 15:26

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

Tot Ion: 95 Resp: 2444720

Ion Ratio Lower Upper

95 100

174 64.6 49.8 74.6

175 4.7 3.7 5.5

