

Data File : VL033607.D
Acq On : 17 Apr 2019 18:09
Operator : SY/AP
Sample : K2241-15 0.03 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Quant Time: Apr 18 05:40:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	719621	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1874783	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1957509	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1558767	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

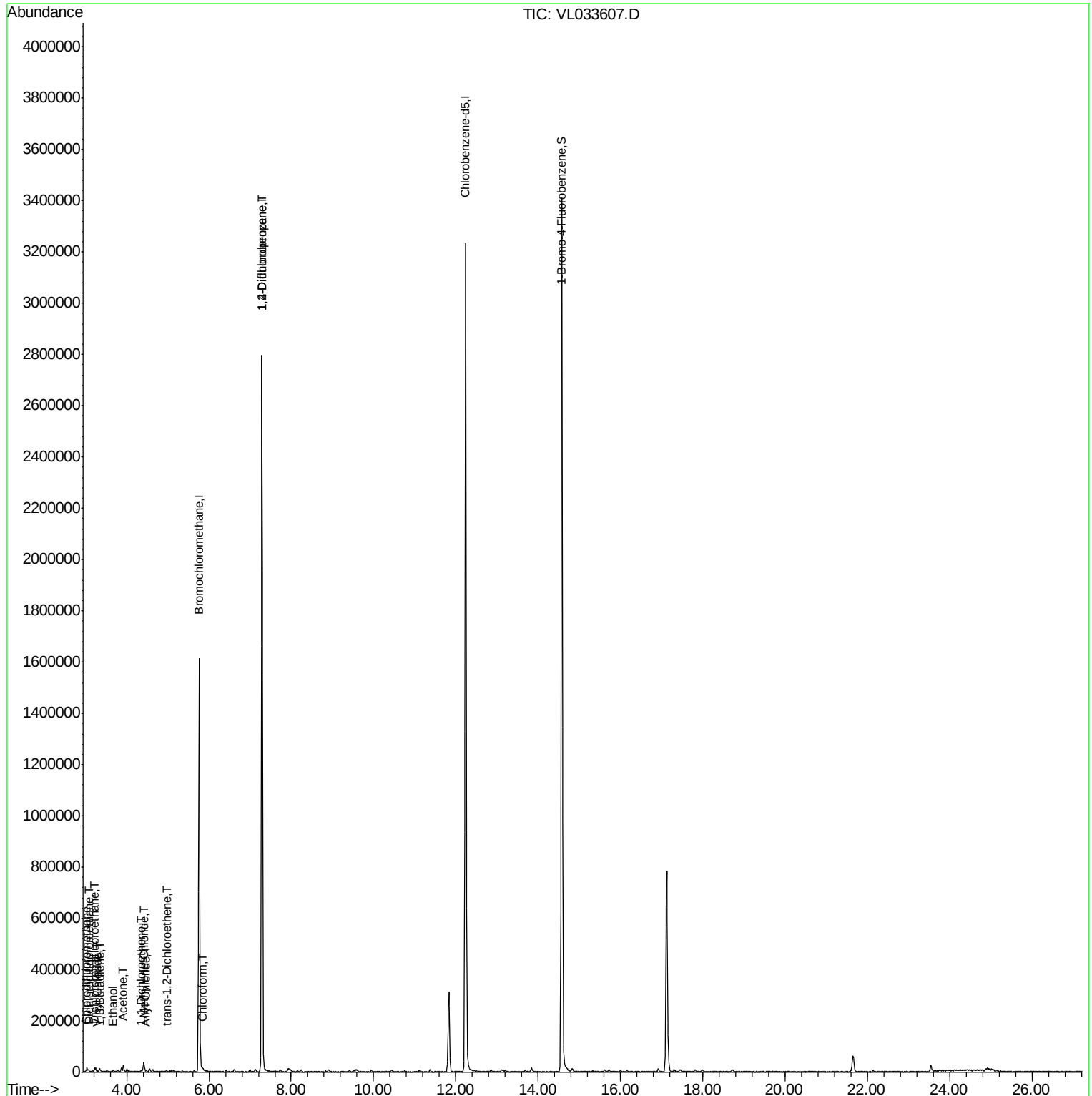
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.07	85	6954	0.066	ppbv	98
3) Chlorodifluoromethane	3.02	51	6913	0.083	ppbv #	82
5) Vinyl Chloride	3.29	62	1339	0.031	ppbv #	87
8) Dichlorotetrafluoroethane	3.22	85	5224	0.047	ppbv	98
13) Ethanol	3.67	45	1103	0.123	ppbv #	37
15) Acetone	3.92	43	24258	0.280	ppbv	92
16) 1,3-Butadiene	3.36	39	1181	0.034	ppbv #	56
18) 1,1-Dichloroethene	4.35	96	1547	0.041	ppbv #	37
20) Methylene Chloride	4.41	84	9786	0.266	ppbv #	77
21) Allyl Chloride	4.47	41	2231	0.041	ppbv #	73
22) trans-1,2-Dichloroethene	4.97	96	1587	0.041	ppbv #	51
29) Chloroform	5.85	83	4807	0.039	ppbv	98
39) 1,2-Dichloropropane	7.28	63	499734	8.110	ppbv #	23

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

ALS Vial : 1 Sample Multiplier: 1

MDL-MDL-AIR-03-QT2-2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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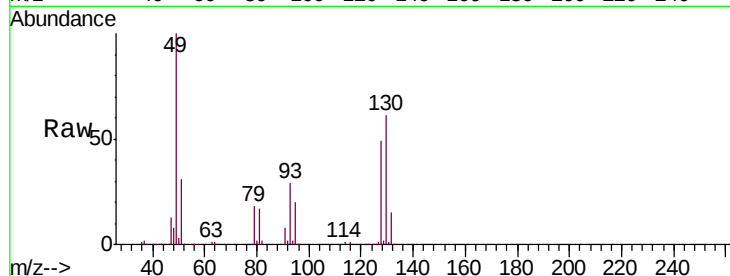
Tgt Ion: 49 Resp: 719621

Ion Ratio Lower Upper

49 100

128 49.5 24.0 72.0

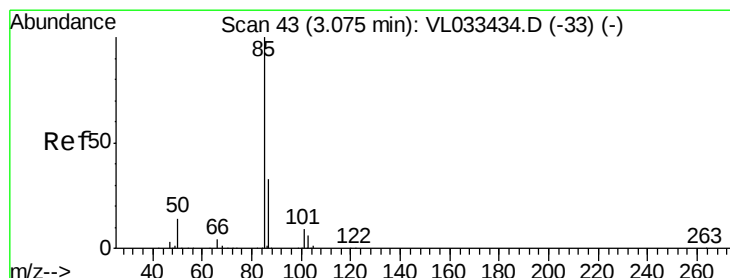
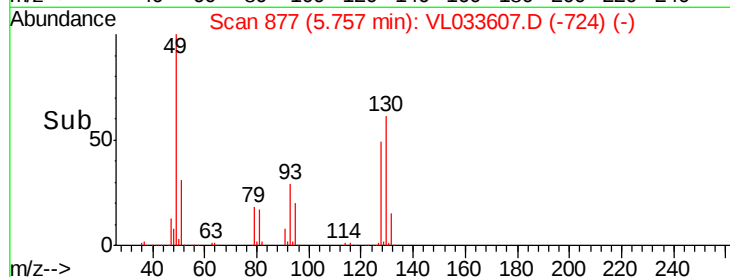
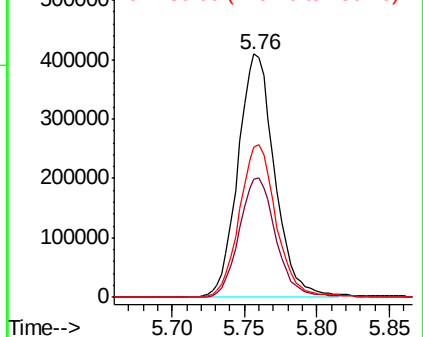
130 63.1 31.2 93.6



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: 0.066 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033607.D

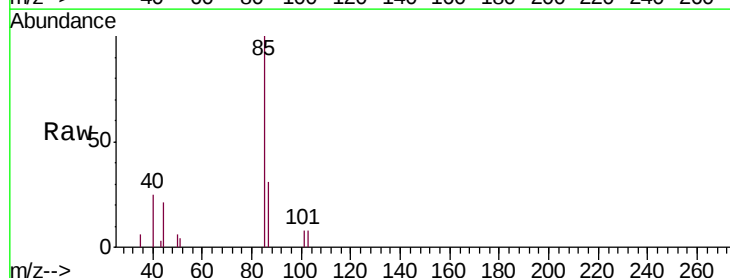
Acq: 17 Apr 2019 18:09

Tgt Ion: 85 Resp: 6954

Ion Ratio Lower Upper

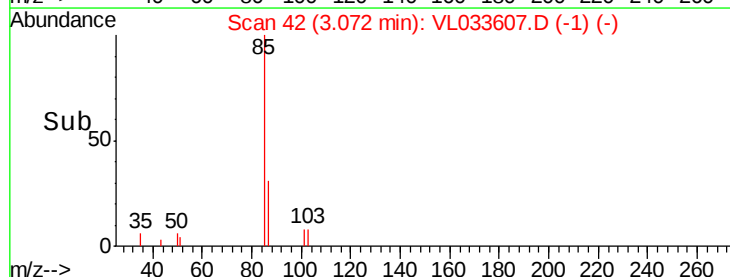
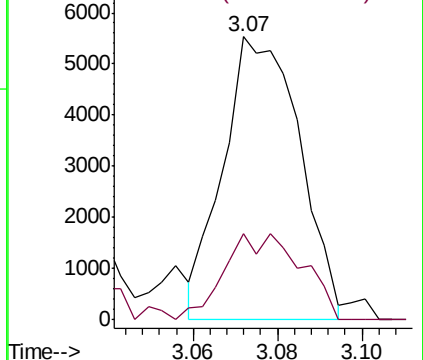
85 100

87 32.2 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

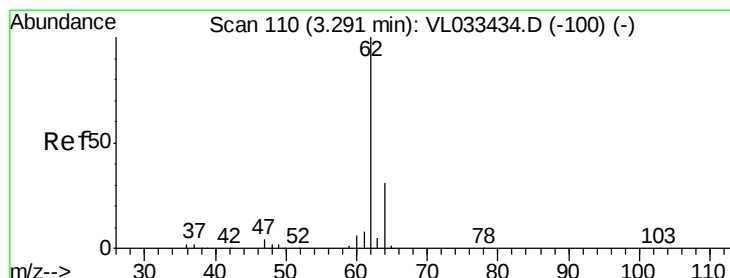
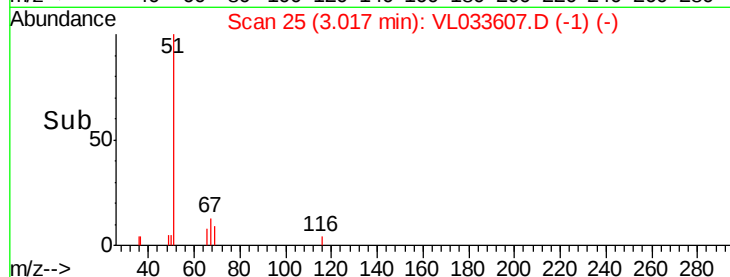
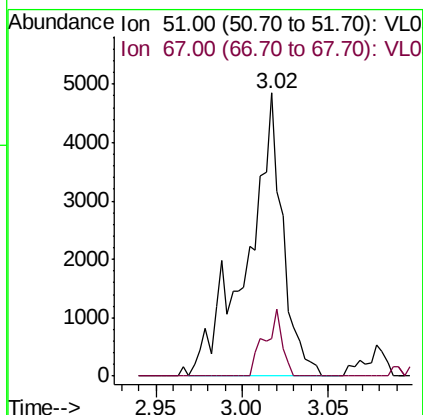
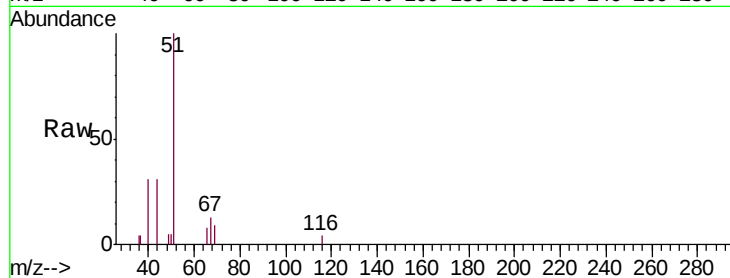




#3
Chlorodifluoromethane
Concen: 0.083 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033607.D
Acq: 17 Apr 2019 18:09

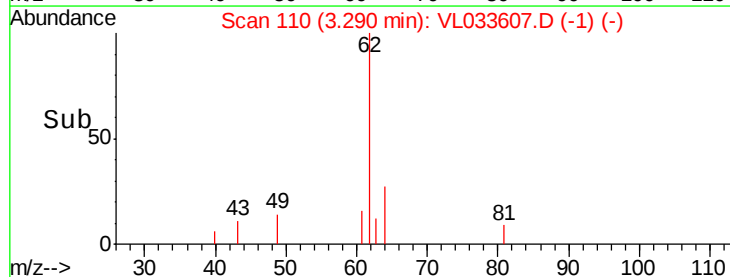
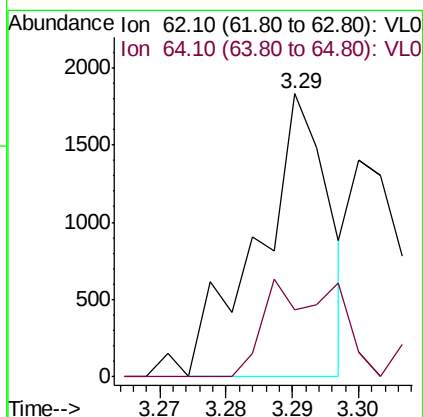
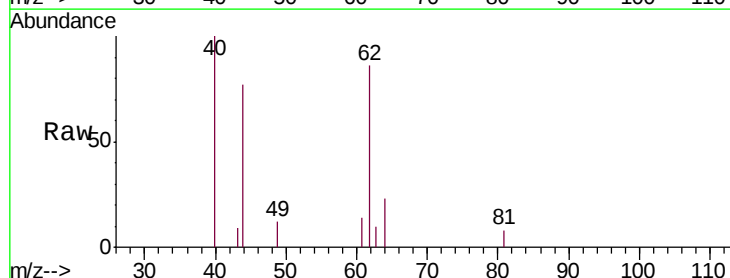
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

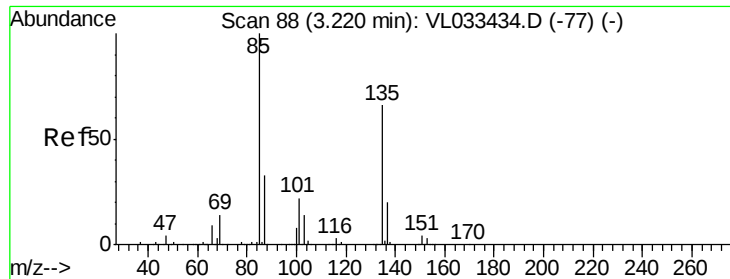
Tgt Ion: 51 Resp: 6913
Ion Ratio Lower Upper
51 100
67 11.6 15.7 23.5#



#5
Vinyl Chloride
Concen: 0.031 ppbv
RT: 3.29 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL033607.D
Acq: 17 Apr 2019 18:09

Tgt Ion: 62 Resp: 1339
Ion Ratio Lower Upper
62 100
64 23.8 24.9 37.3#





#8

Dichlorotetrafluoroethane

Concen: 0.047 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_L

ClientSampleId :

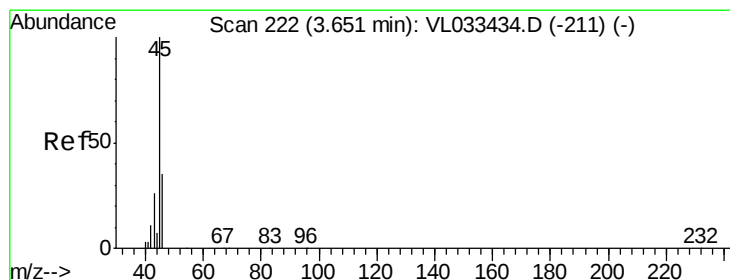
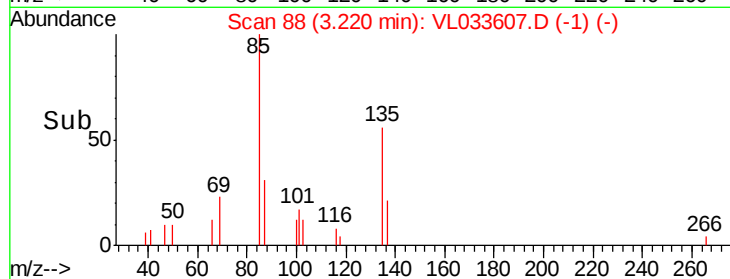
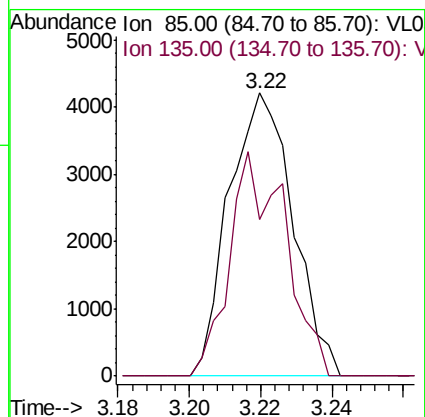
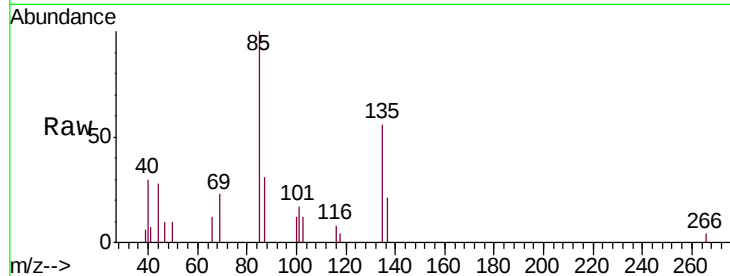
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 85 Resp: 5224

Ion Ratio Lower Upper

85 100

135 69.0 54.0 81.0



#13

Ethanol

Concen: 0.123 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033607.D

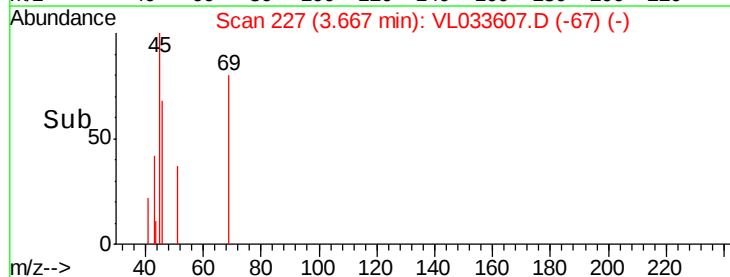
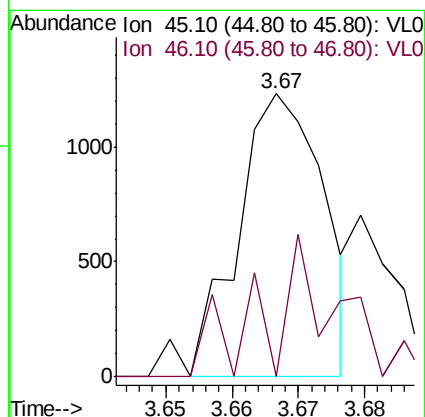
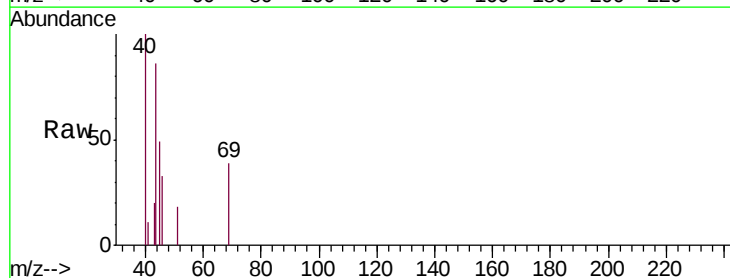
Acq: 17 Apr 2019 18:09

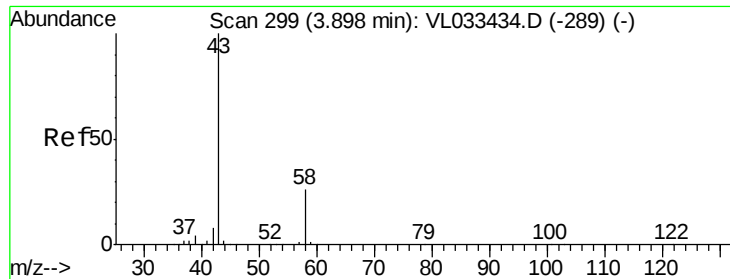
Tgt Ion: 45 Resp: 1103

Ion Ratio Lower Upper

45 100

46 14.1 25.4 101.8#





#15

Acetone

Concen: 0.280 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.02 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_L

ClientSampleId :

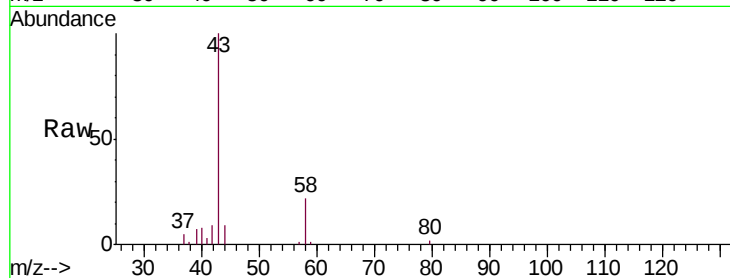
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 43 Resp: 24258

Ion Ratio Lower Upper

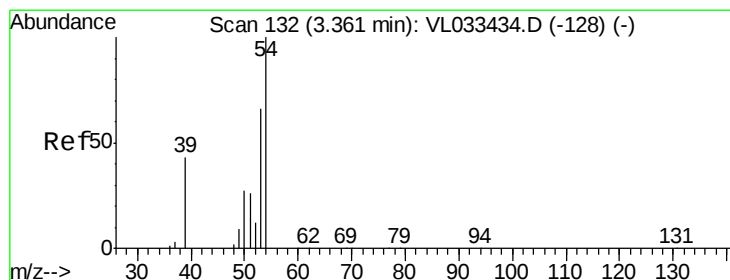
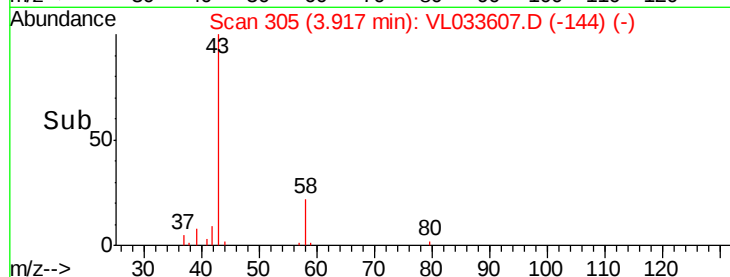
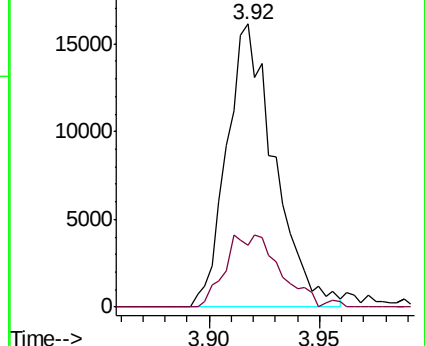
43 100

58 29.6 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033607.D

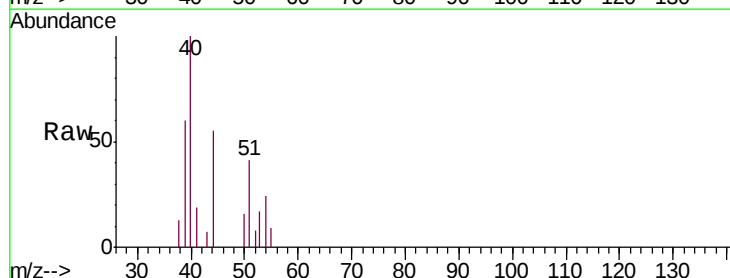
Acq: 17 Apr 2019 18:09

Tgt Ion: 39 Resp: 1181

Ion Ratio Lower Upper

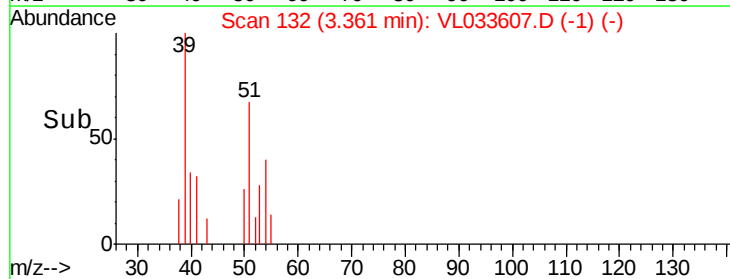
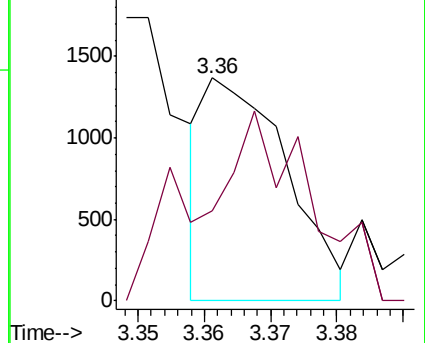
39 100

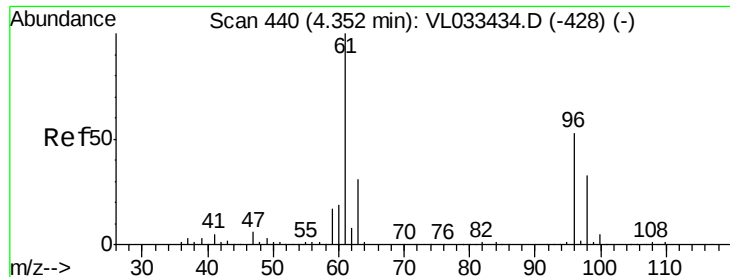
54 127.4 69.4 104.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#18

1,1-Dichloroethene

Concen: 0.041 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

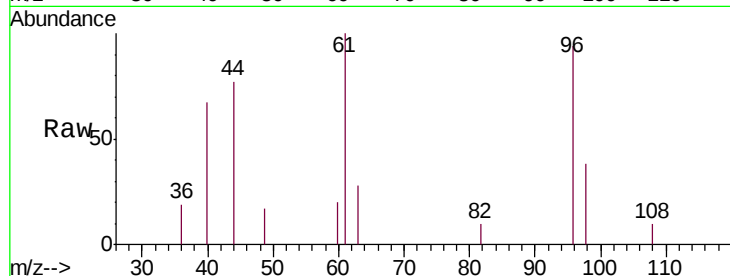
Tgt Ion: 96 Resp: 1547

Ion Ratio Lower Upper

96 100

61 78.8 149.8 224.6#

98 40.1 48.7 73.1#

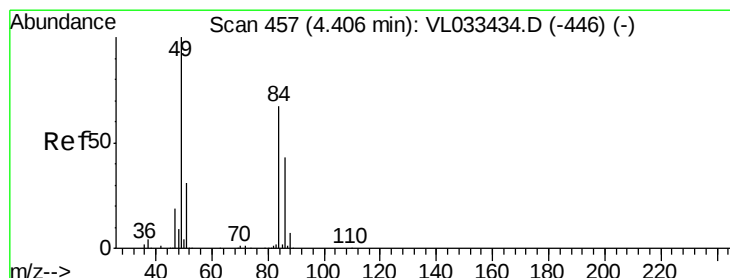
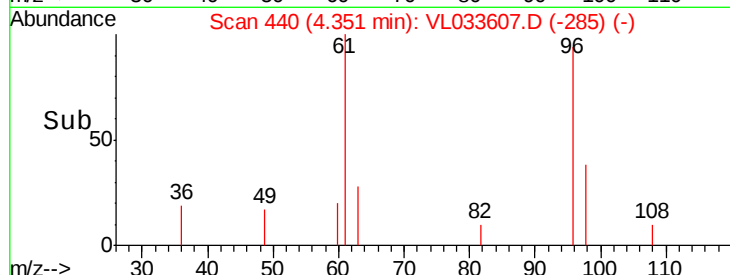
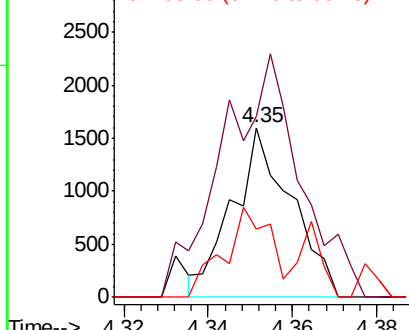


Abundance

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: 0.266 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

Tgt Ion: 84 Resp: 9786

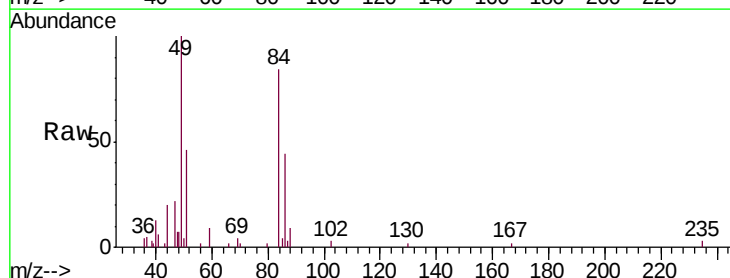
Ion Ratio Lower Upper

84 100

49 114.7 120.0 180.0#

51 55.4 36.7 55.1#

86 52.0 51.9 77.9



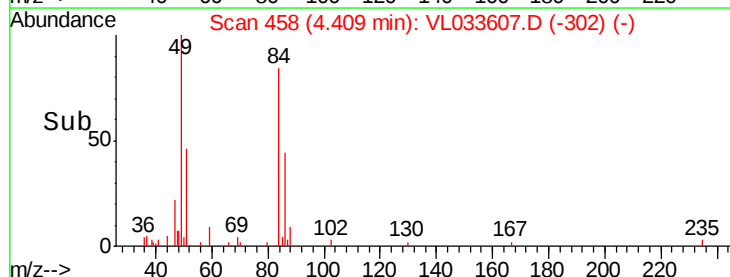
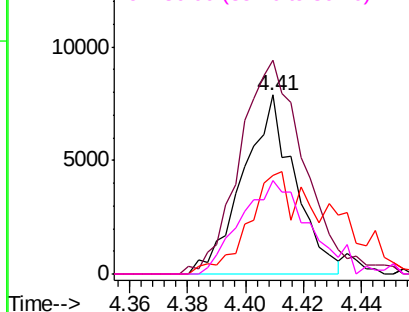
Abundance

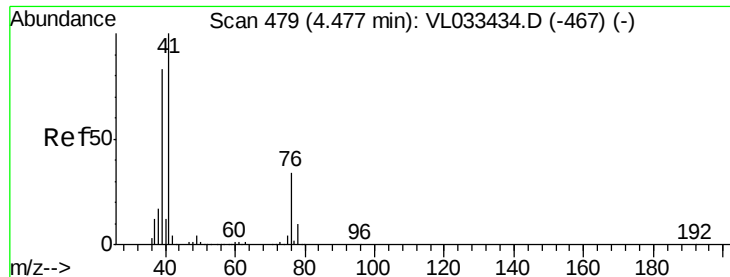
Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allyl Chloride

Concen: 0.041 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033607.D

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ClientSampleId :

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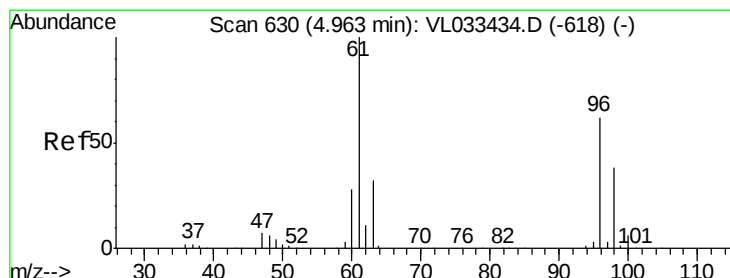
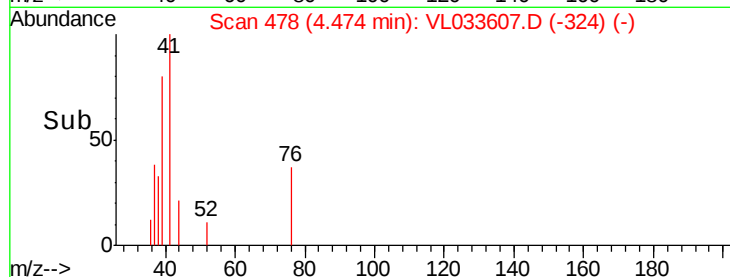
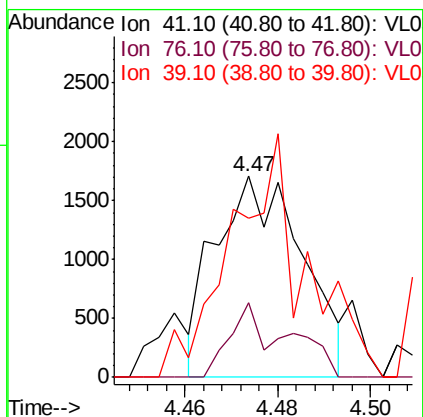
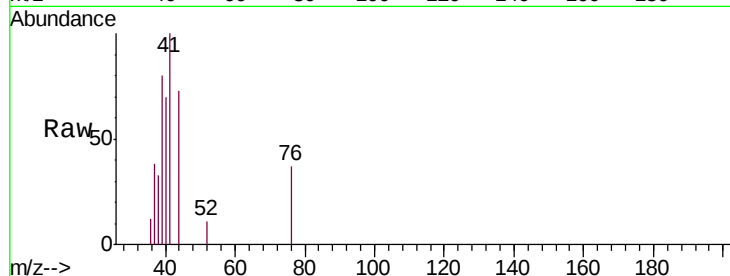
Tgt Ion: 41 Resp: 2231

Ion Ratio Lower Upper

41 100

76 23.9 25.4 38.2#

39 110.0 65.3 97.9#



#22

trans-1,2-Dichloroethene

Concen: 0.041 ppbv

RT: 4.97 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

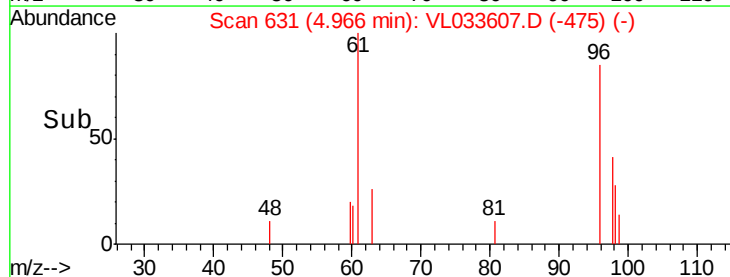
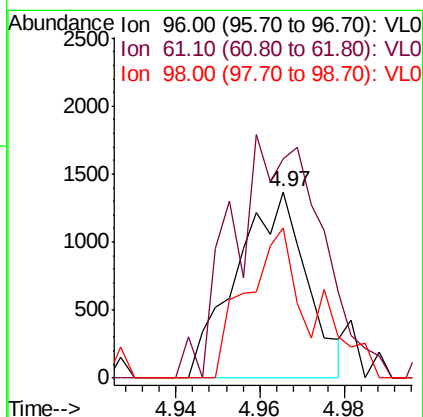
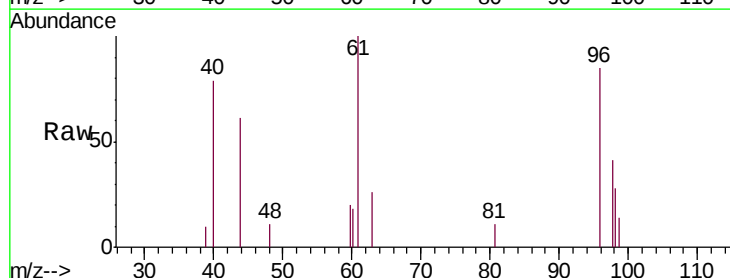
Tgt Ion: 96 Resp: 1587

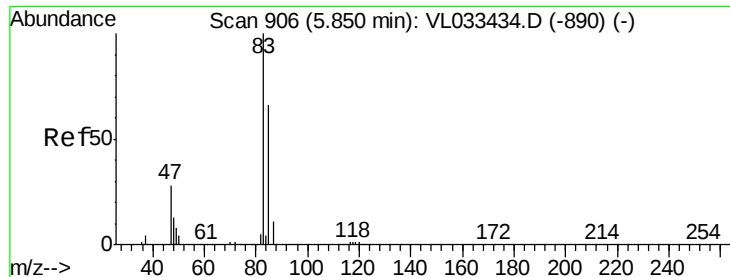
Ion Ratio Lower Upper

96 100

61 95.4 128.9 193.3#

98 98.0 49.5 74.3#





#29

Chloroform

Concen: 0.039 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

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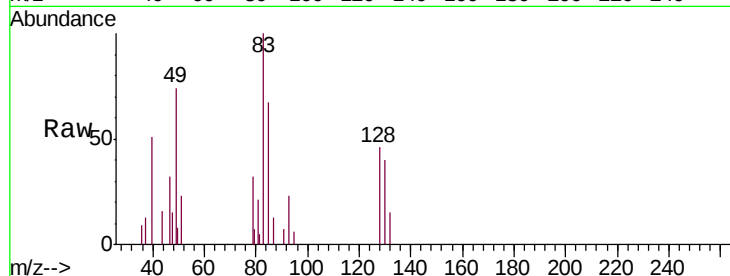
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 83 Resp: 4807

Ion Ratio Lower Upper

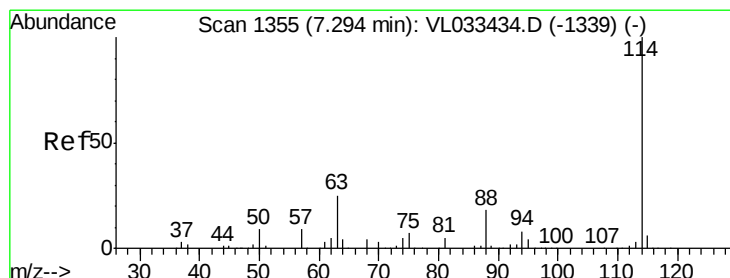
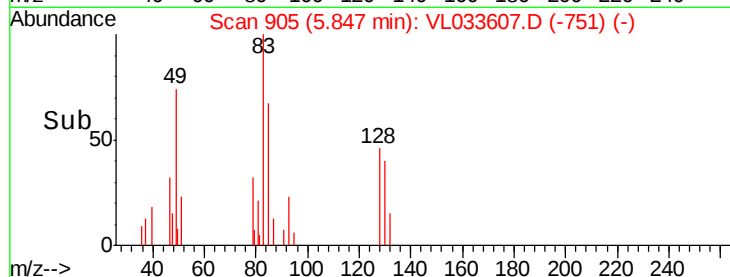
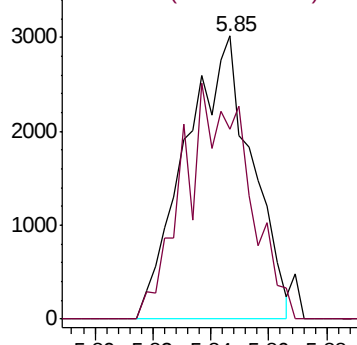
83 100

85 67.2 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

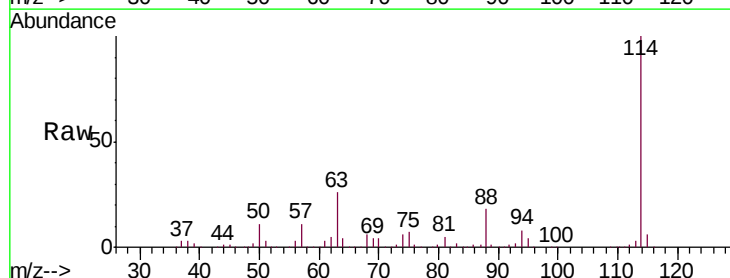
Tgt Ion: 114 Resp: 1874783

Ion Ratio Lower Upper

114 100

63 26.9 21.5 32.3

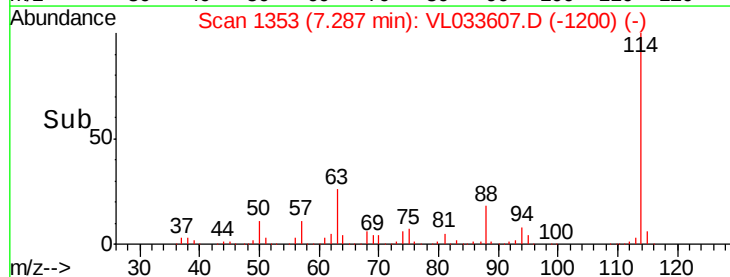
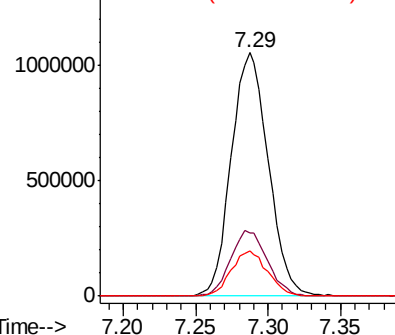
88 18.3 14.5 21.7

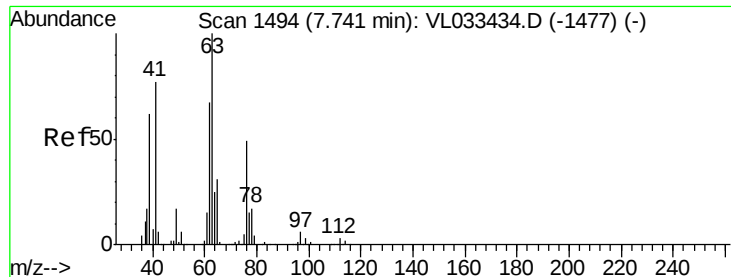


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 8.110 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033607.D

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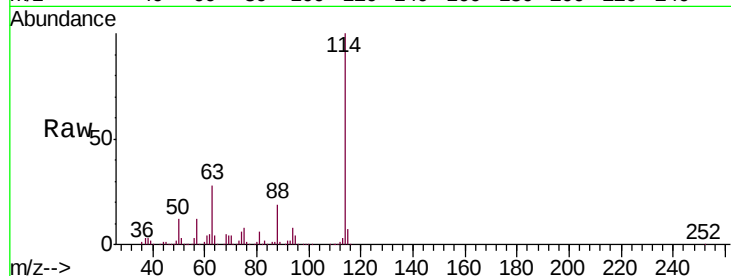
Tgt Ion: 63 Resp: 499734

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

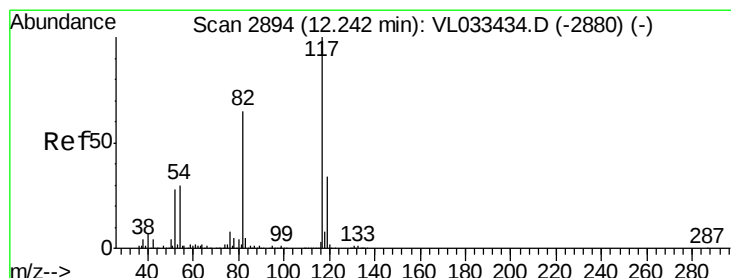
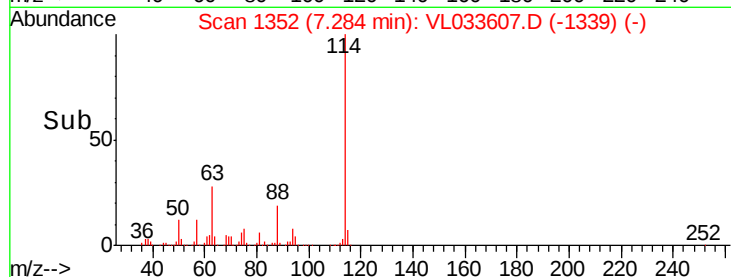
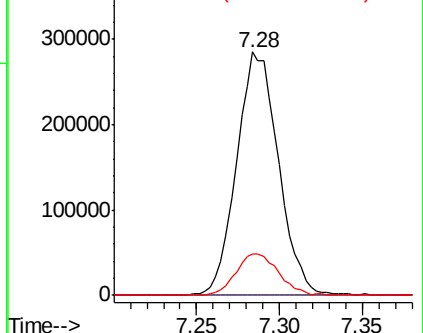
62 16.9 54.0 81.0#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

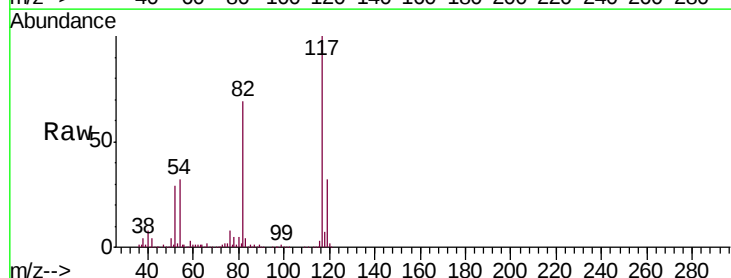
Tgt Ion: 117 Resp: 1957509

Ion Ratio Lower Upper

117 100

82 67.7 51.5 77.3

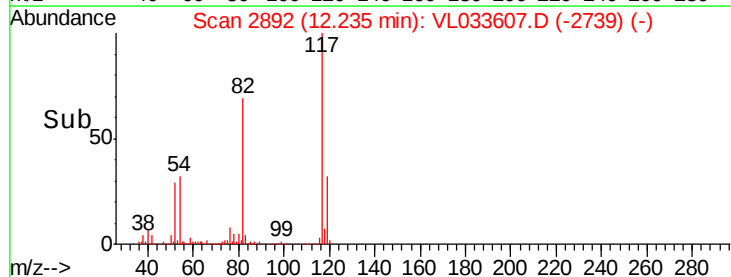
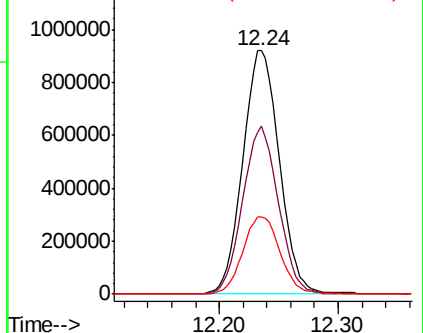
119 32.6 25.5 38.3

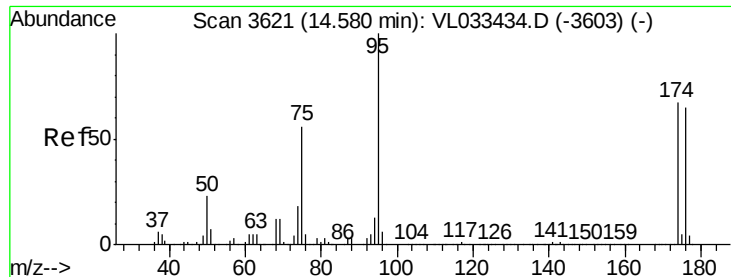


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.157 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033607.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

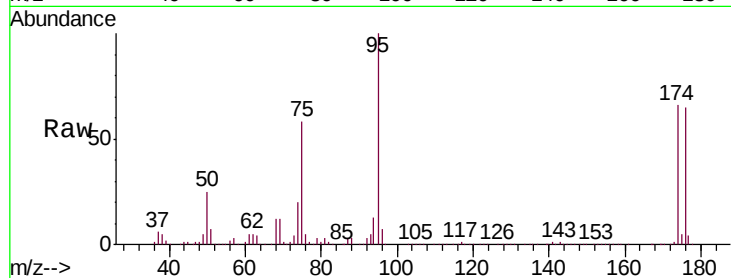
Tgt Ion: 95 Resp: 1558767

Ion Ratio Lower Upper

95 100

174 66.5 52.9 79.3

175 4.8 3.8 5.6



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

