

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033448.D
 Acq On : 25 Mar 2019 22:44
 Operator : SY/AP
 Sample : K1560-13 0.03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

Quant Time: Mar 26 05:21:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	691562	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1595111	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1577166	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1226597	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

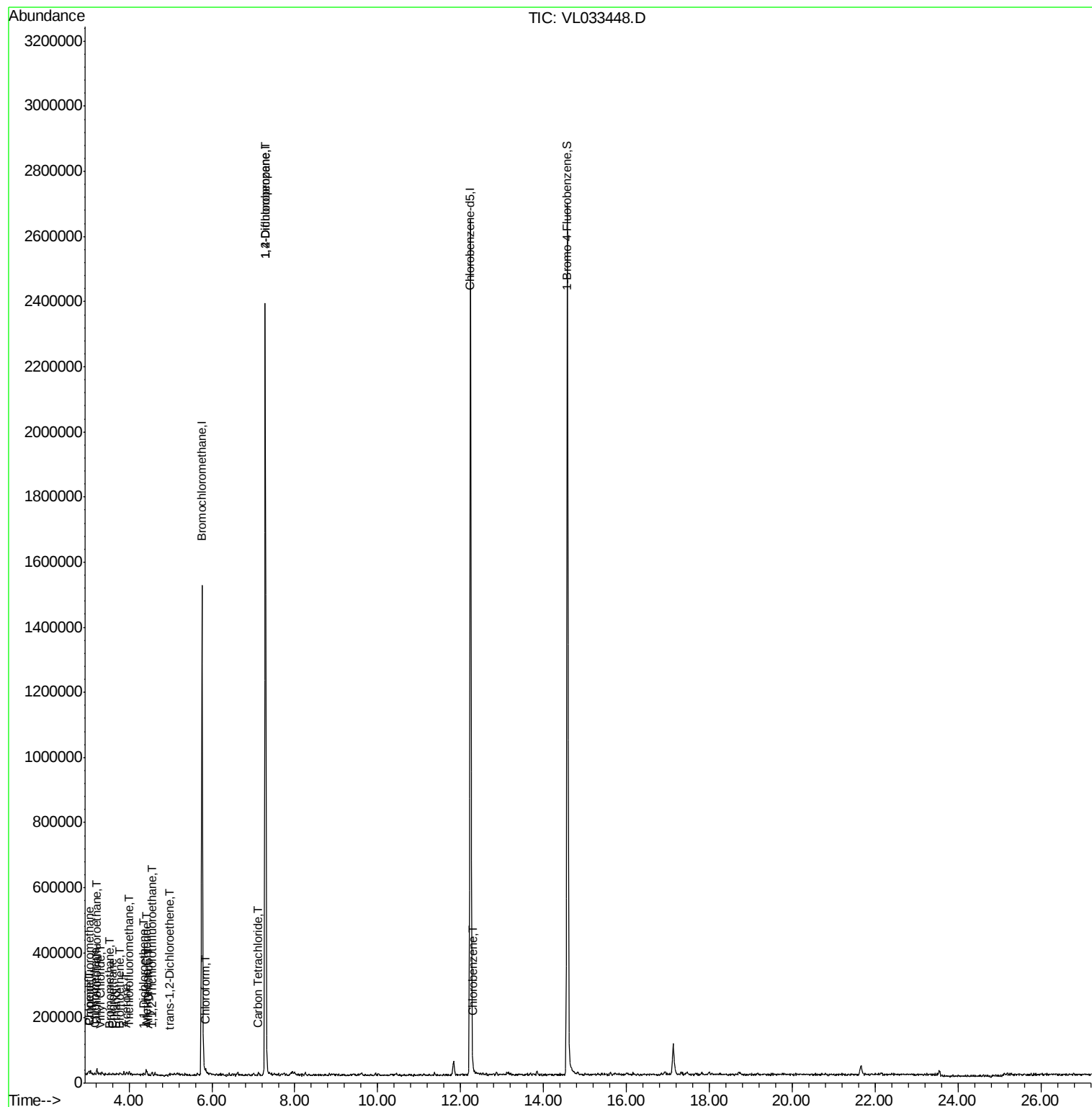
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	4268	0.054	ppbv	94
4) Chloromethane	3.16	50	889	0.021	ppbv	98
5) Vinyl Chloride	3.29	62	1583	0.038	ppbv	93
6) Bromomethane	3.51	94	606	0.023	ppbv	98
7) Chloroethane	3.60	64	509	0.033	ppbv #	41
8) Dichlorotetrafluoroethane	3.22	85	4870	0.045	ppbv	99
9) Propene	3.04	41	900	0.027	ppbv #	3
11) Trichlorofluoromethane	4.00	101	5125	0.041	ppbv #	82
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3471	0.042	ppbv	86
13) Ethanol	3.67	45	293	0.037	ppbv #	18
14) Bromoethene	3.79	108	1133	0.034	ppbv #	68
15) Acetone	3.93	43	6798	0.082	ppbv	97
18) 1,1-Dichloroethene	4.35	96	1147	0.032	ppbv #	42
20) Methylene Chloride	4.41	84	2620	0.074	ppbv #	64
21) Allyl Chloride	4.48	41	1629	0.031	ppbv #	82
22) trans-1,2-Dichloroethene	4.96	96	999	0.027	ppbv #	54
29) Chloroform	5.85	83	4698	0.040	ppbv	89
35) Carbon Tetrachloride	7.13	117	2565	0.025	ppbv #	54
39) 1,2-Dichloropropane	7.28	63	428260	8.168	ppbv #	23
57) Chlorobenzene	12.30	112	4050	0.033	ppbv #	64

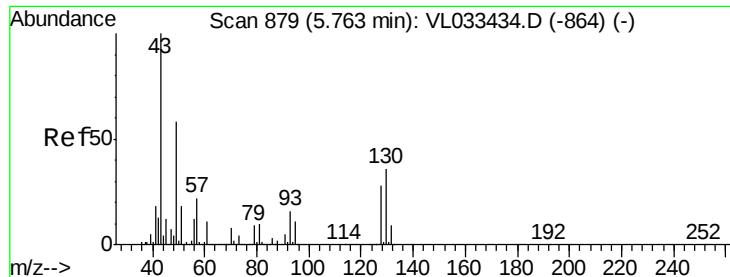
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

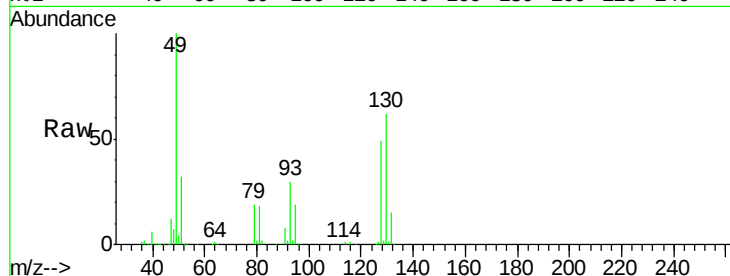
Tgt Ion: 49 Resp: 691562

Ion Ratio Lower Upper

49 100

128 48.3 24.0 72.0

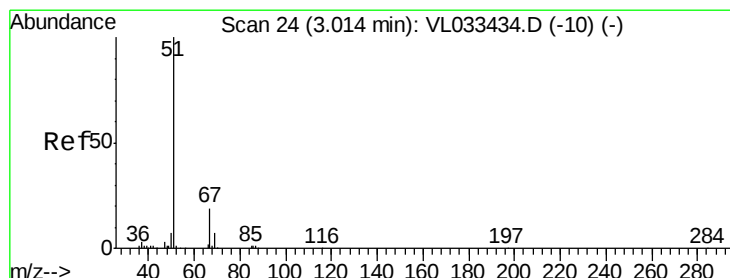
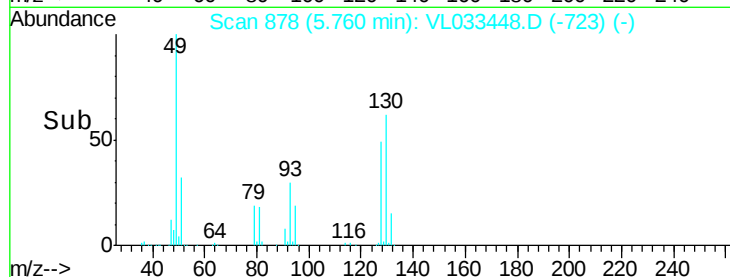
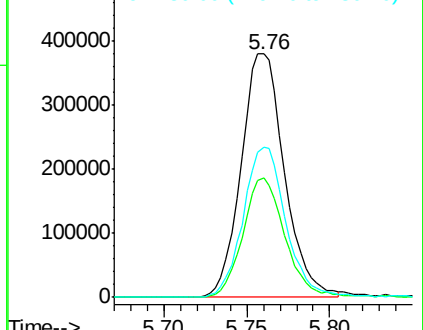
130 61.8 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.054 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL033448.D

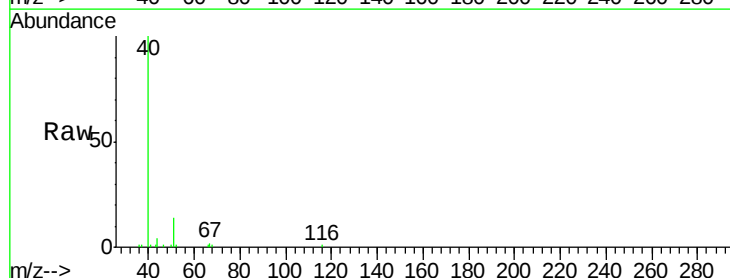
Acq: 25 Mar 2019 22:44

Tgt Ion: 51 Resp: 4268

Ion Ratio Lower Upper

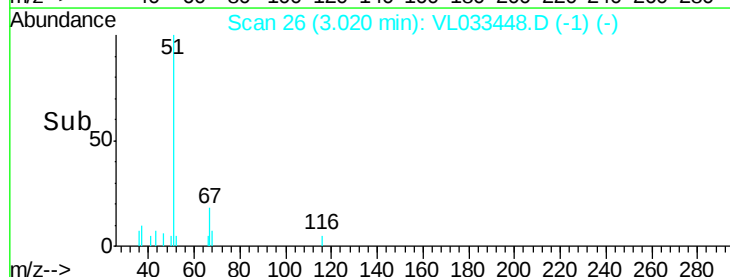
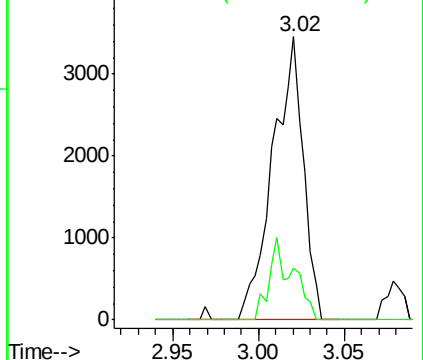
51 100

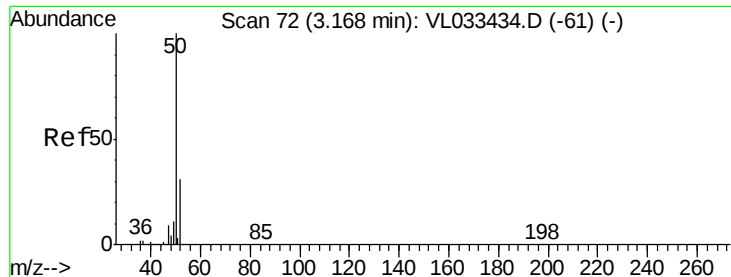
67 22.2 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.021 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

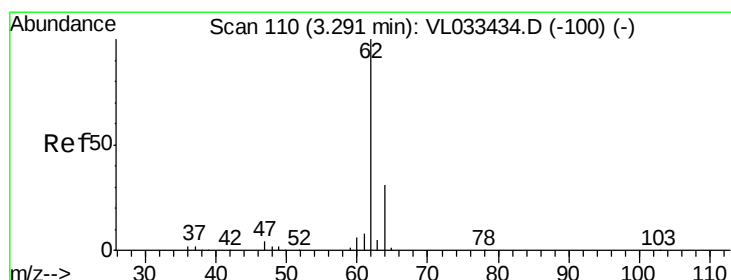
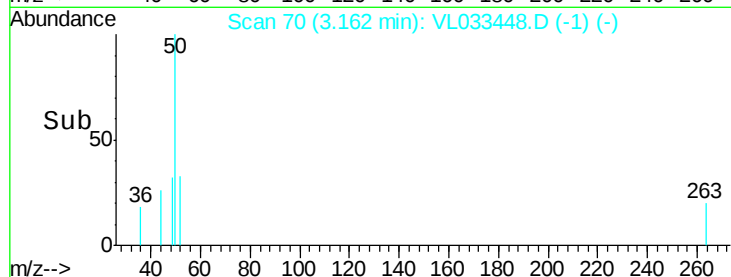
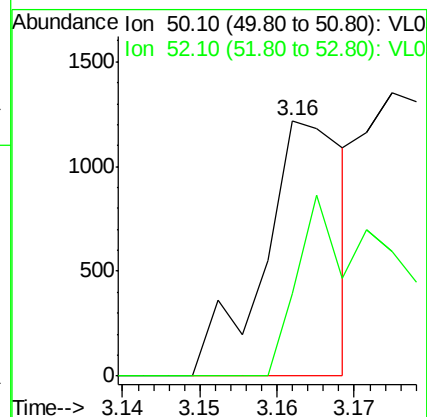
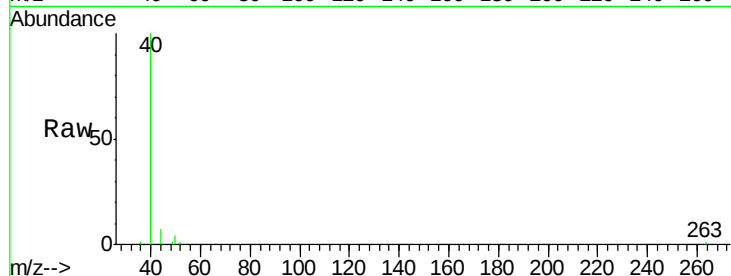
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 50 Resp: 889

Ion Ratio Lower Upper

50 100

52 32.5 25.0 37.6



#5

Vinyl Chloride

Concen: 0.038 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033448.D

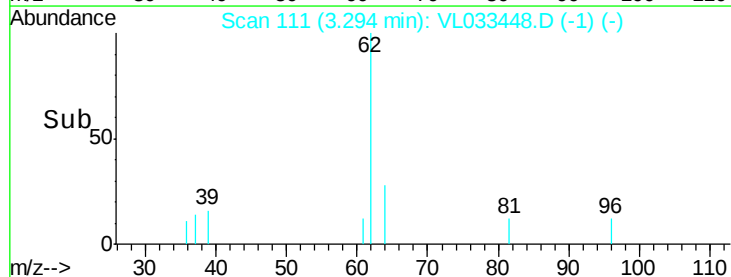
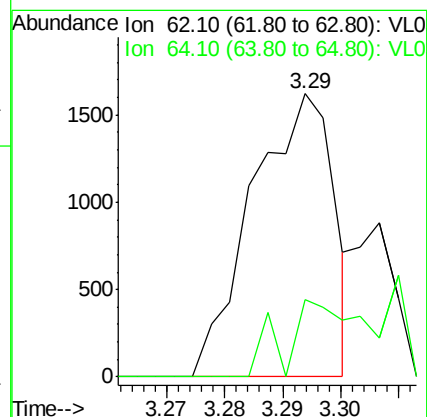
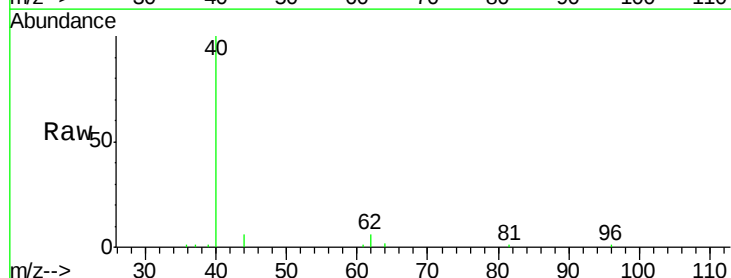
Acq: 25 Mar 2019 22:44

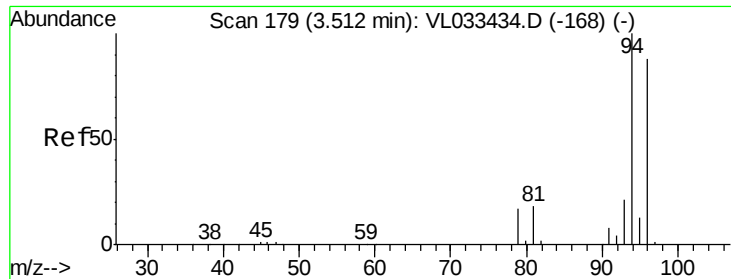
Tgt Ion: 62 Resp: 1583

Ion Ratio Lower Upper

62 100

64 27.5 24.9 37.3





#6

Bromomethane

Concen: 0.023 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

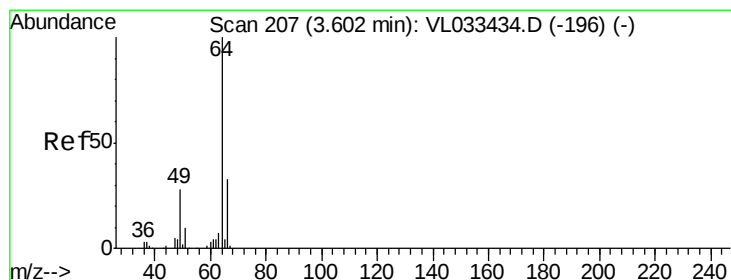
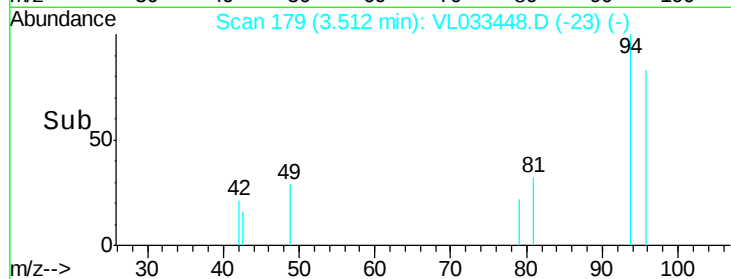
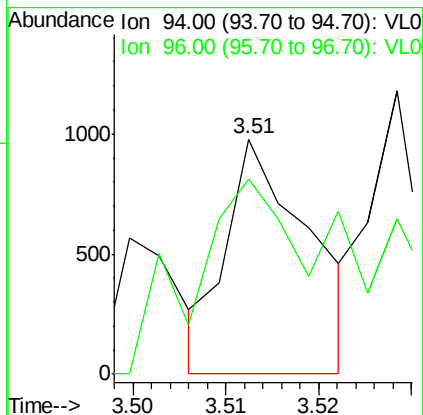
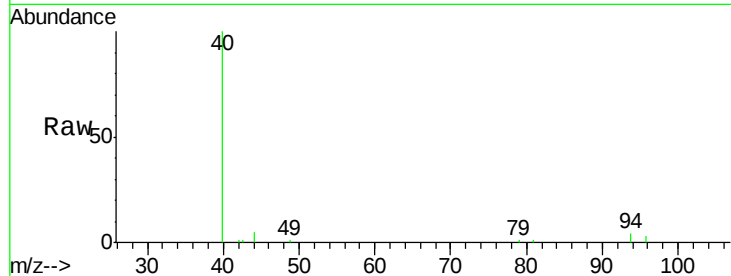
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 94 Resp: 606

Ion Ratio Lower Upper

94 100

96 85.6 70.2 105.2



#7

Chloroethane

Concen: 0.033 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033448.D

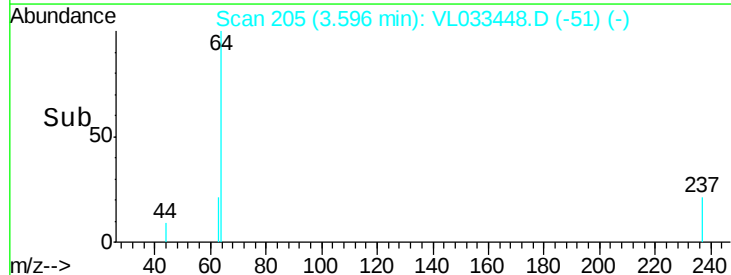
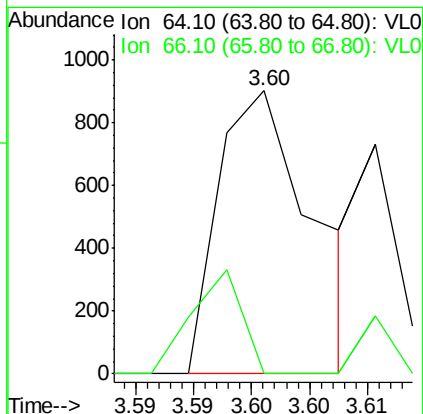
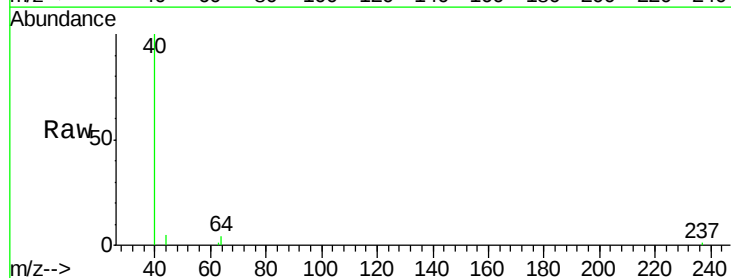
Acq: 25 Mar 2019 22:44

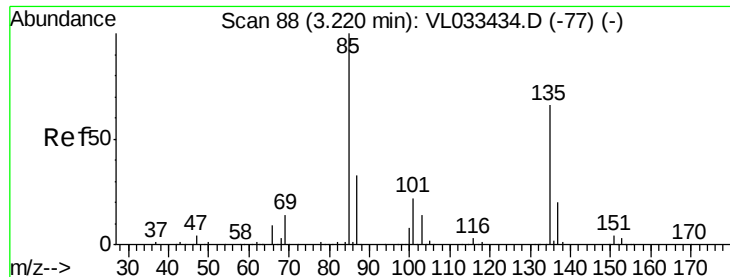
Tgt Ion: 64 Resp: 509

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#





#8

Dichlorotetrafluoroethane

Concen: 0.045 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

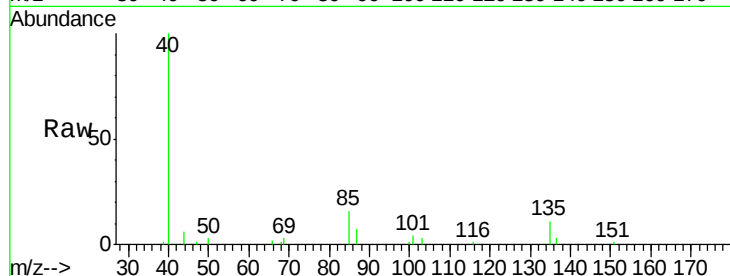
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 85 Resp: 4870

Ion Ratio Lower Upper

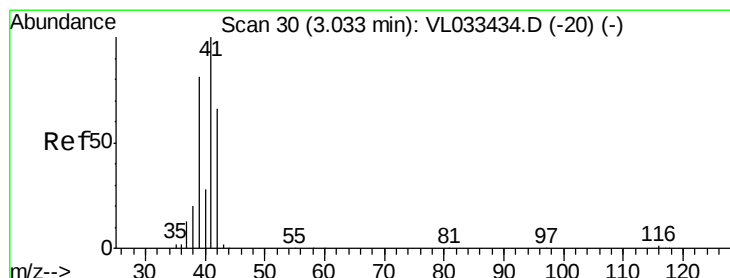
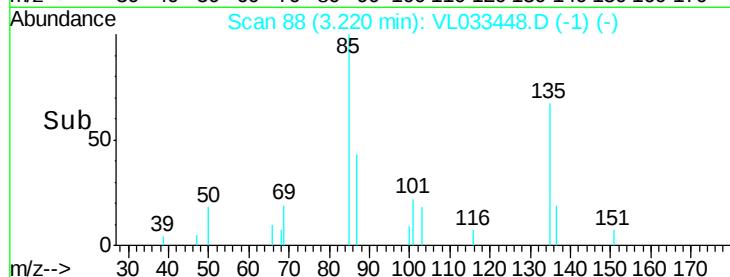
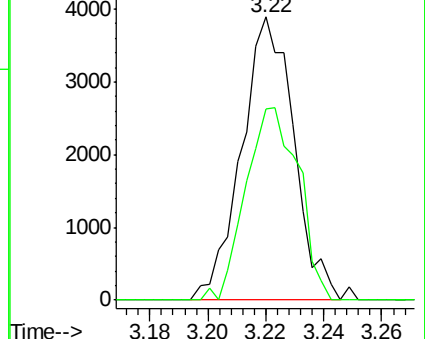
85 100

135 68.6 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.027 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033448.D

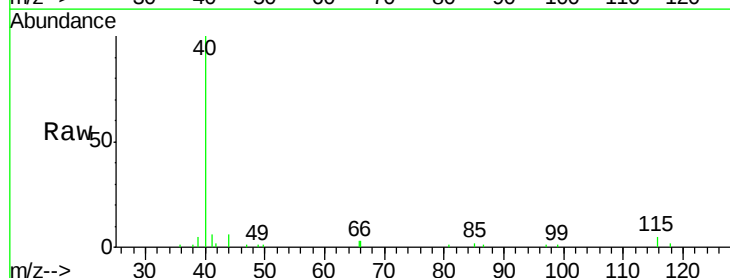
Acq: 25 Mar 2019 22:44

Tgt Ion: 41 Resp: 900

Ion Ratio Lower Upper

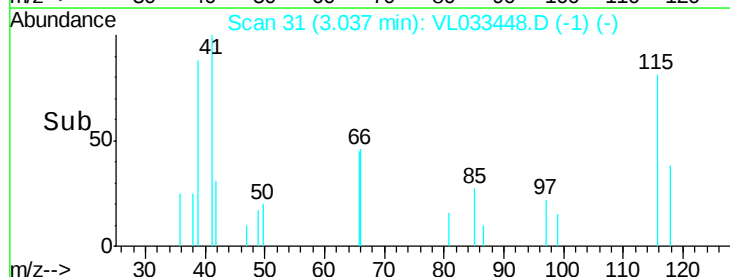
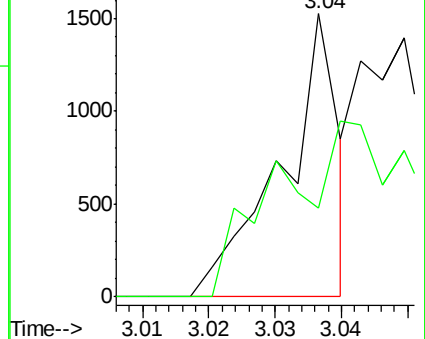
41 100

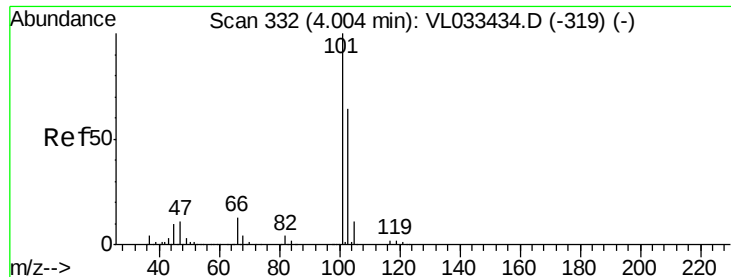
42 145.1 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

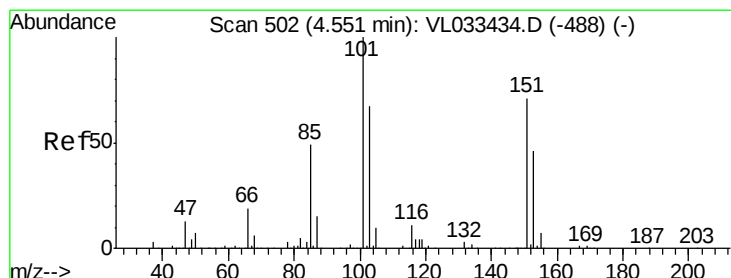
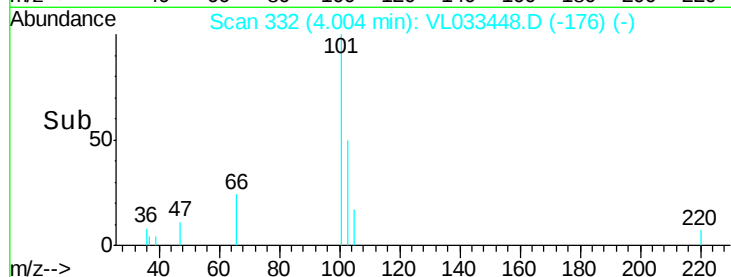
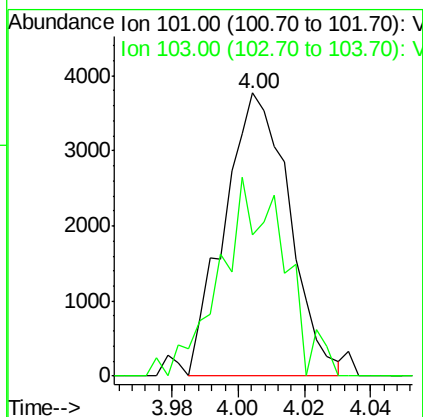
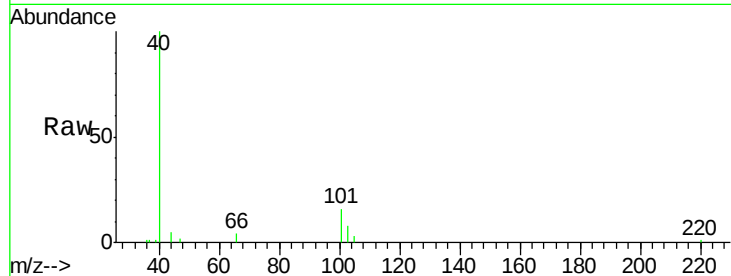




#11
 Trichlorofluoromethane
 Concen: 0.041 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033448.D
 Acq: 25 Mar 2019 22:44

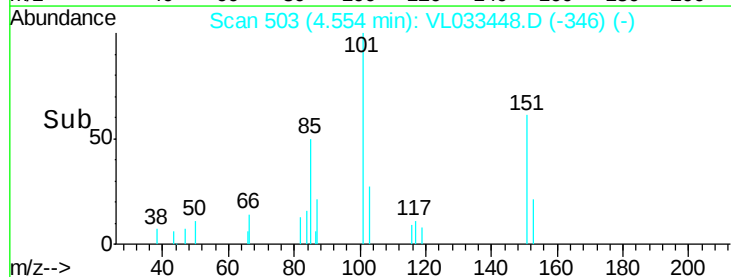
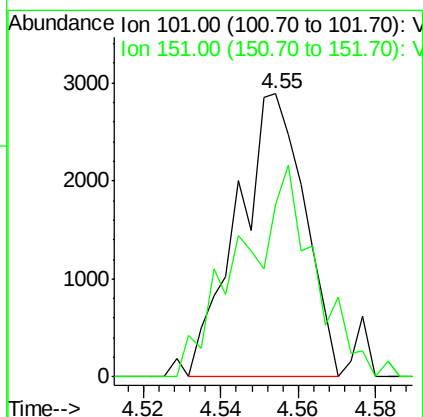
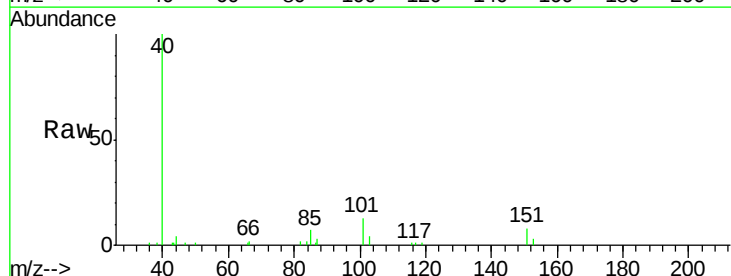
Instrument :
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 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

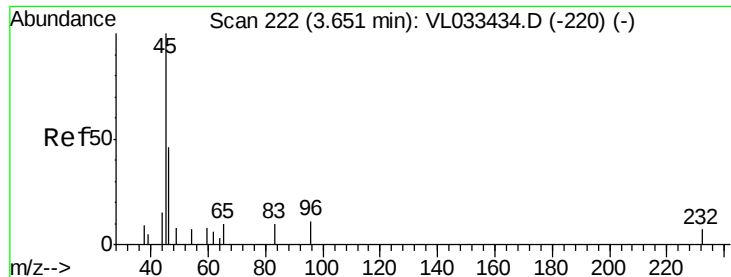
Tgt Ion:101 Resp: 5125
 Ion Ratio Lower Upper
 101 100
 103 49.7 51.3 76.9#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.042 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033448.D
 Acq: 25 Mar 2019 22:44

Tgt Ion:101 Resp: 3471
 Ion Ratio Lower Upper
 101 100
 151 83.5 57.7 86.5

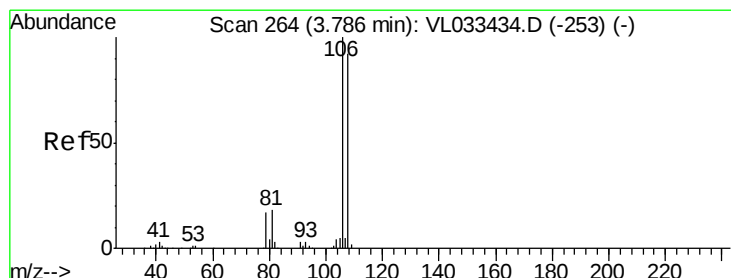
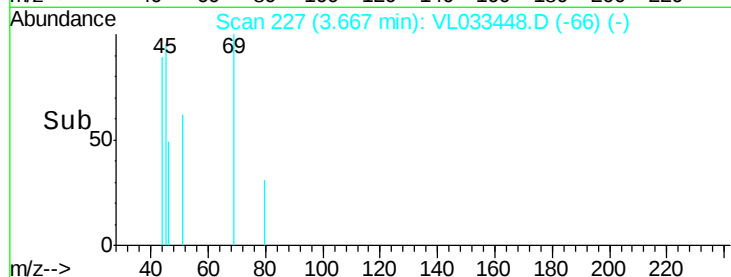
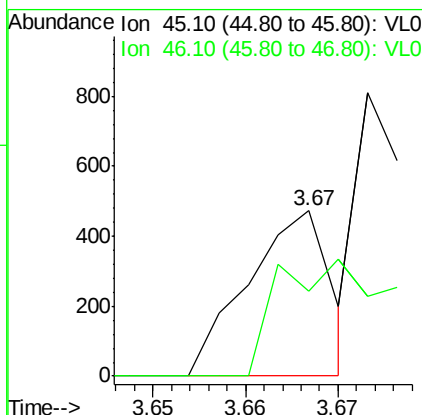
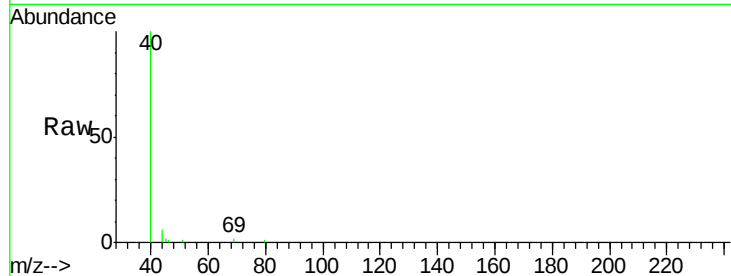




#13
Ethanol
Concen: 0.037 ppbv
RT: 3.67 min Scan# 227
Delta R.T. 0.02 min
Lab File: VL033448.D
Acq: 25 Mar 2019 22:44

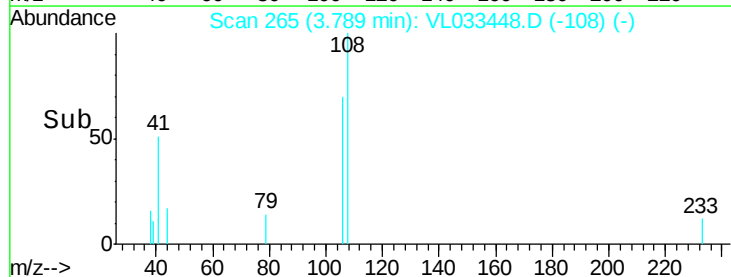
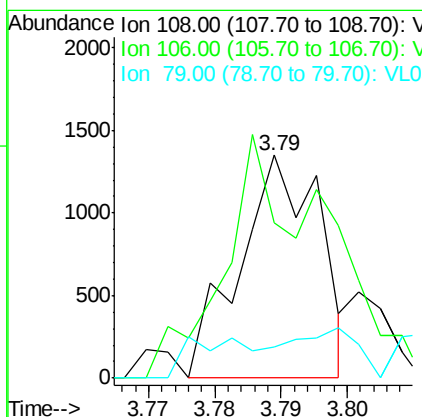
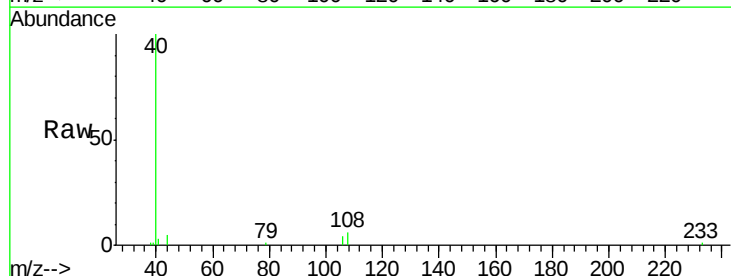
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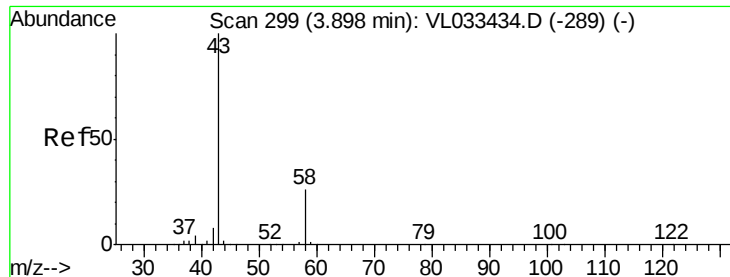
Tgt Ion: 45 Resp: 293
Ion Ratio Lower Upper
45 100
46 0.0 25.4 101.8#



#14
Bromoethene
Concen: 0.034 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033448.D
Acq: 25 Mar 2019 22:44

Tgt Ion: 108 Resp: 1133
Ion Ratio Lower Upper
108 100
106 139.2 86.4 129.6#
79 0.0 15.8 23.8#





#15

Acetone

Concen: 0.082 ppbv

RT: 3.93 min Scan# 309

Delta R.T. 0.03 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

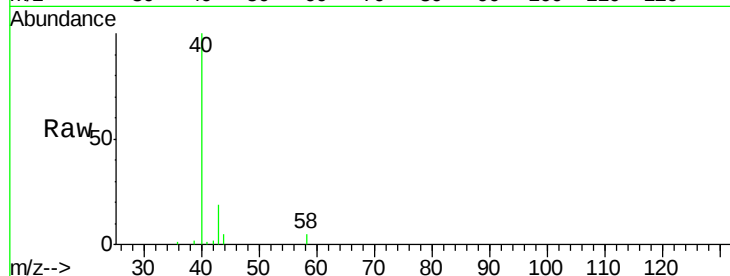
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 43 Resp: 6798

Ion Ratio Lower Upper

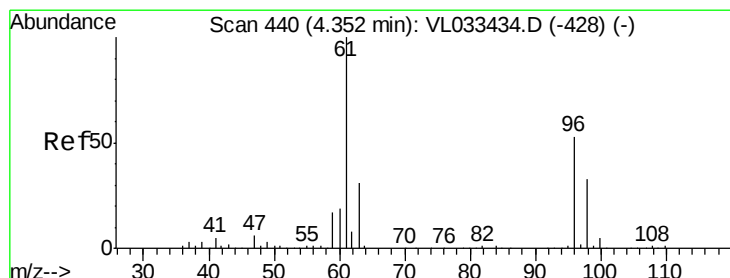
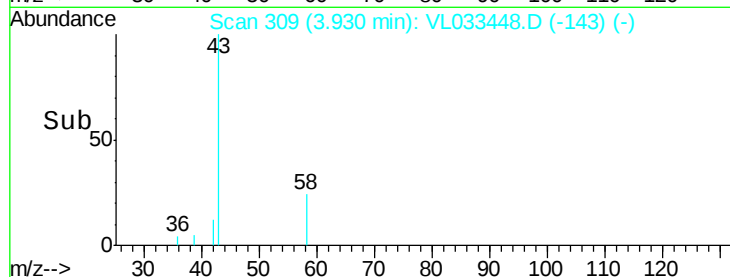
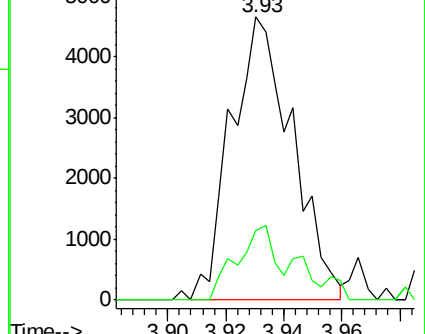
43 100

58 24.0 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.032 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

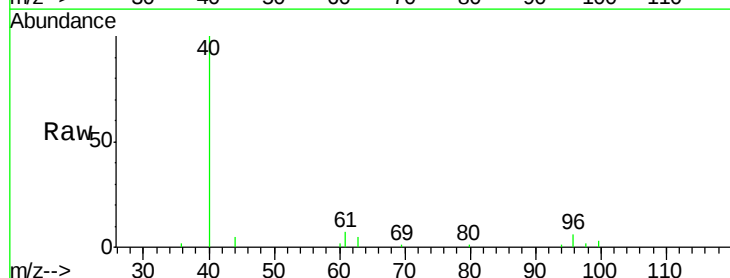
Tgt Ion: 96 Resp: 1147

Ion Ratio Lower Upper

96 100

61 86.5 149.8 224.6#

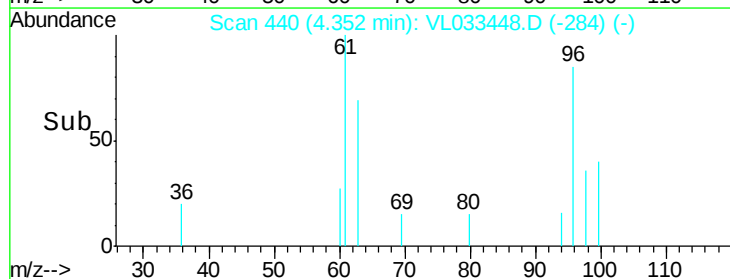
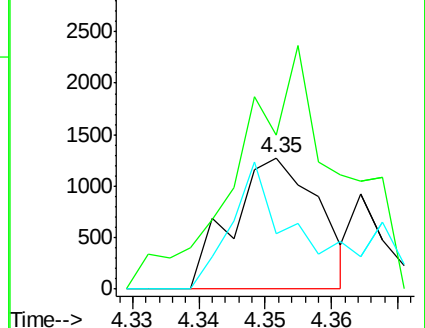
98 42.8 48.7 73.1#

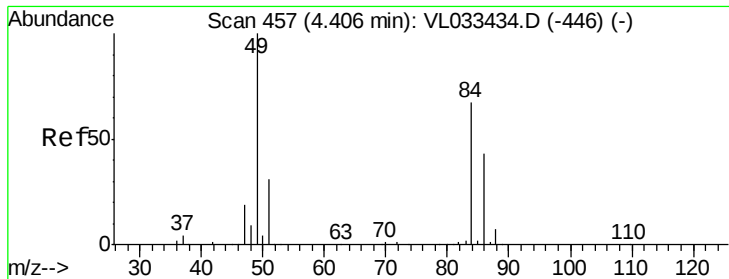


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#20

Methylene Chloride

Concen: 0.074 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 84 Resp: 2620

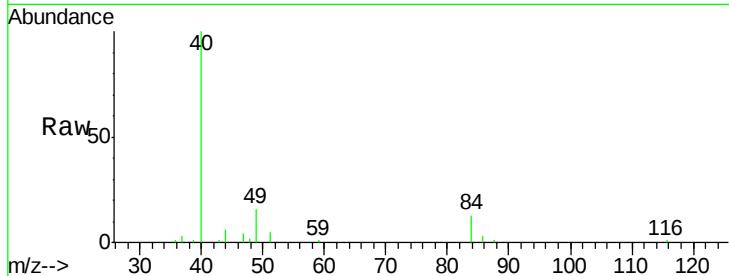
Ion Ratio Lower Upper

84 100

49 108.5 120.0 180.0#

51 41.3 36.7 55.1

86 15.5 51.9 77.9#

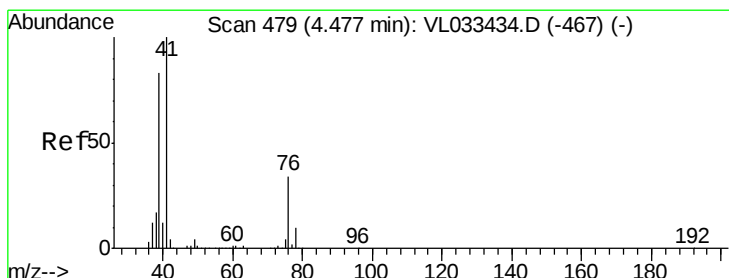
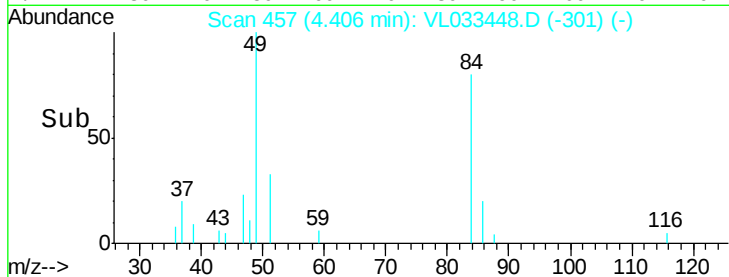
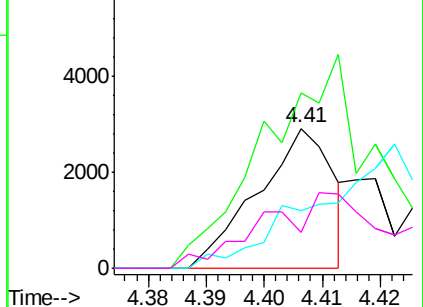


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.031 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

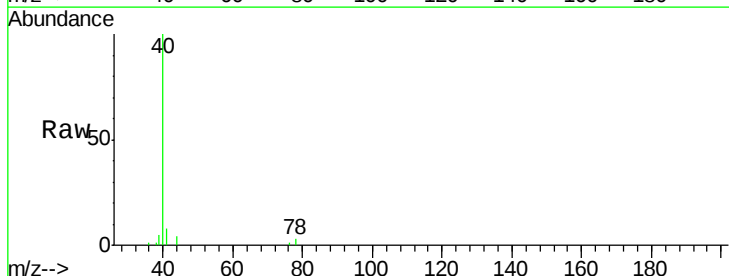
Tgt Ion: 41 Resp: 1629

Ion Ratio Lower Upper

41 100

76 38.5 25.4 38.2#

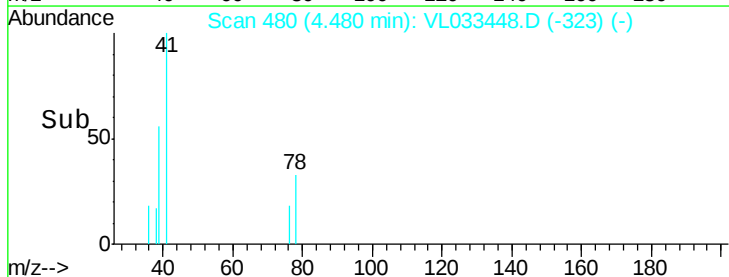
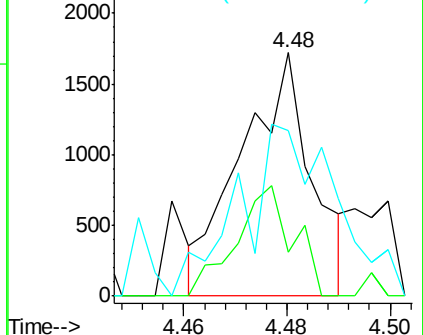
39 99.9 65.3 97.9#

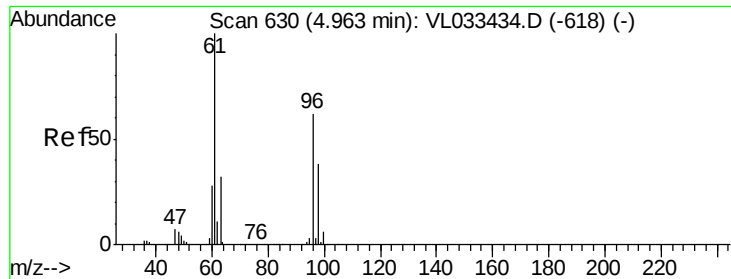


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.027 ppbv

RT: 4.96 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL033448.D

Acq: 25 Mar 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

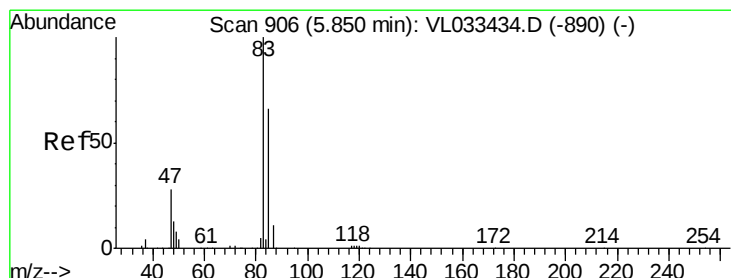
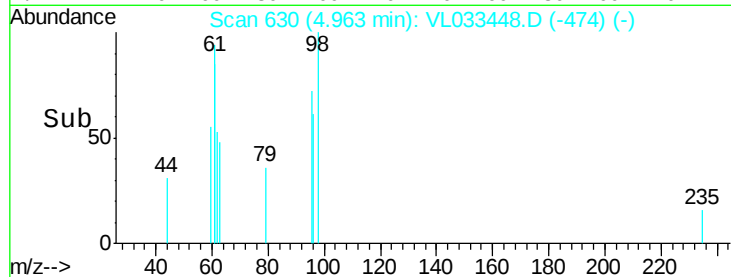
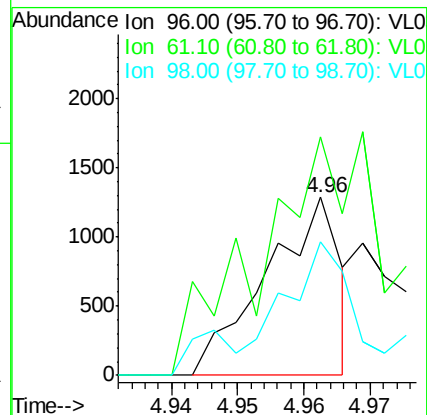
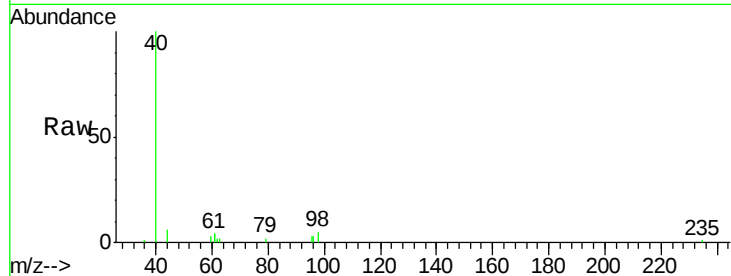
Tgt Ion: 96 Resp: 999

Ion Ratio Lower Upper

96 100

61 81.2 128.9 193.3#

98 54.6 49.5 74.3



#29

Chloroform

Concen: 0.040 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033448.D

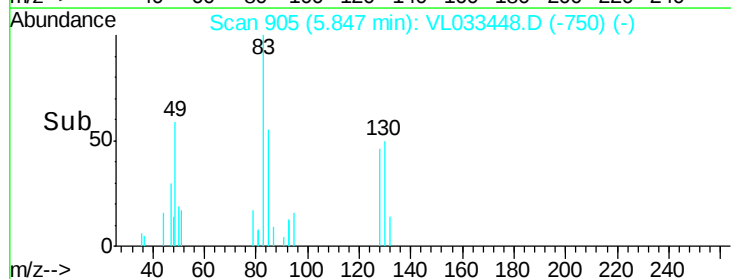
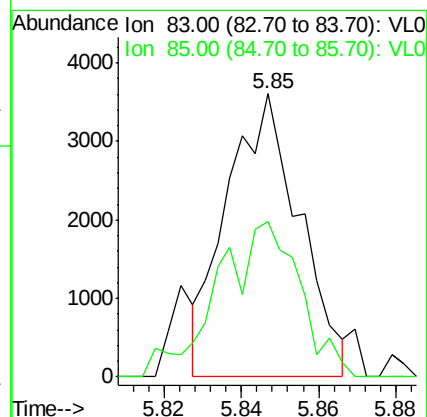
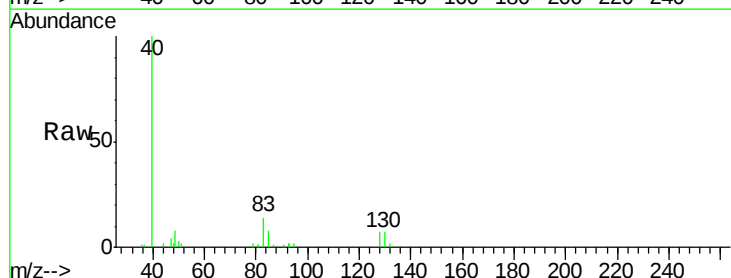
Acq: 25 Mar 2019 22:44

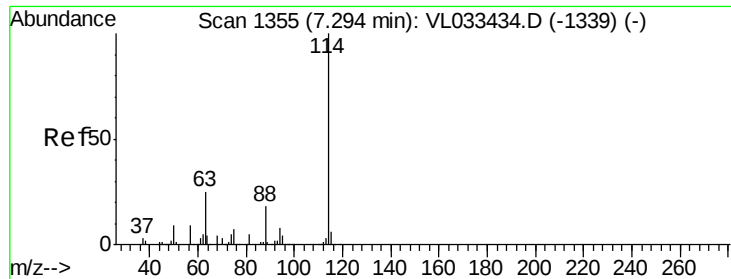
Tgt Ion: 83 Resp: 4698

Ion Ratio Lower Upper

83 100

85 57.2 52.6 79.0

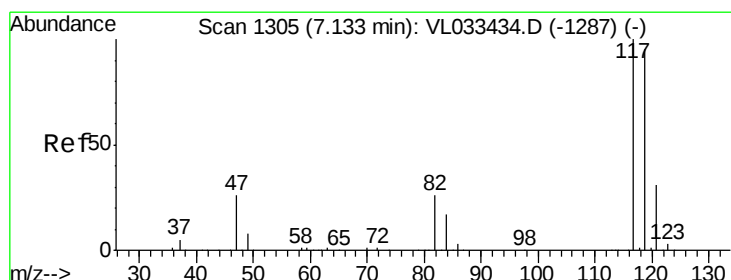
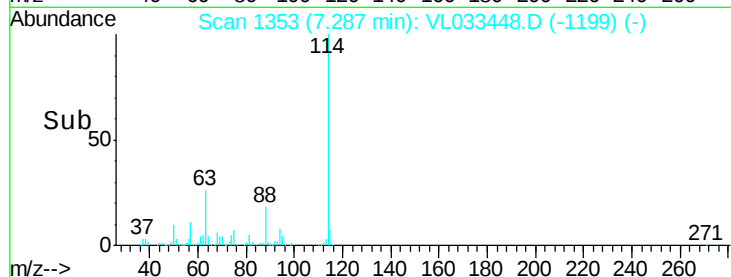
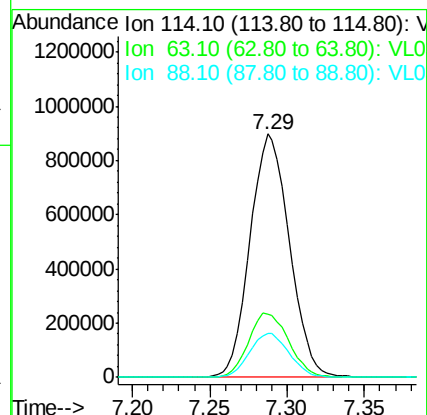
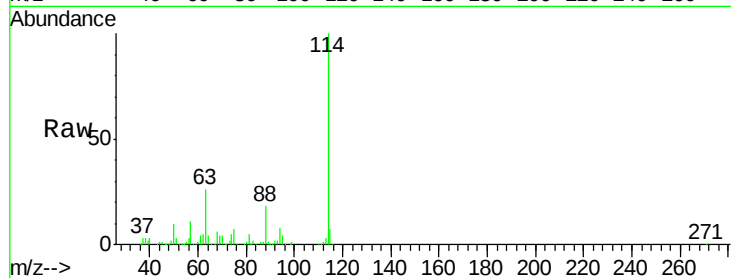




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033448.D
 Acq: 25 Mar 2019 22:44

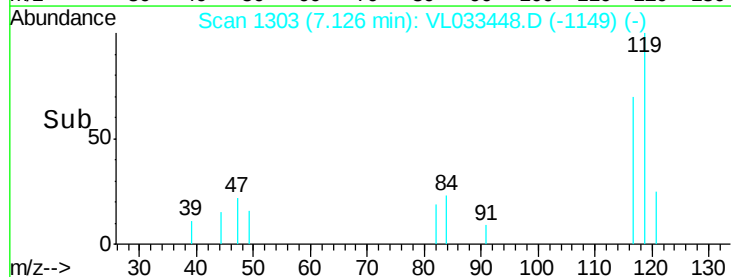
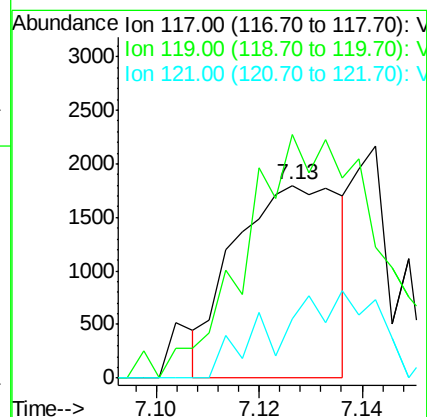
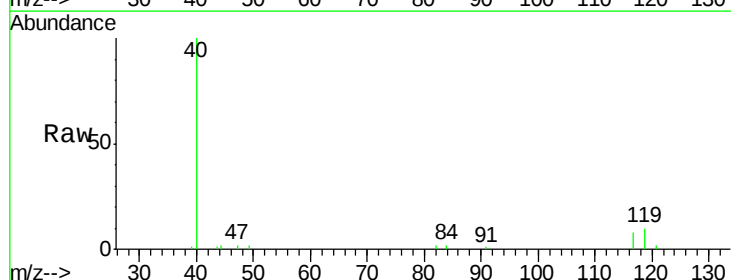
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

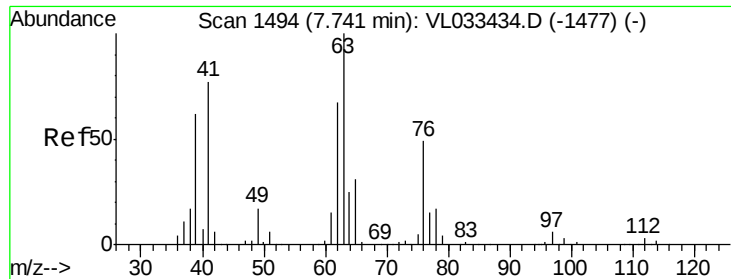
Tgt Ion:114 Resp: 1595111
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.5 32.3
 88 18.3 14.5 21.7



#35
 Carbon Tetrachloride
 Concen: 0.025 ppbv
 RT: 7.13 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: VL033448.D
 Acq: 25 Mar 2019 22:44

Tgt Ion:117 Resp: 2565
 Ion Ratio Lower Upper
 117 100
 119 147.6 75.8 113.8#
 121 41.3 24.7 37.1#

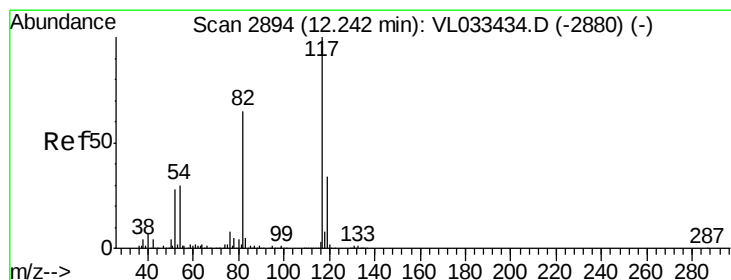
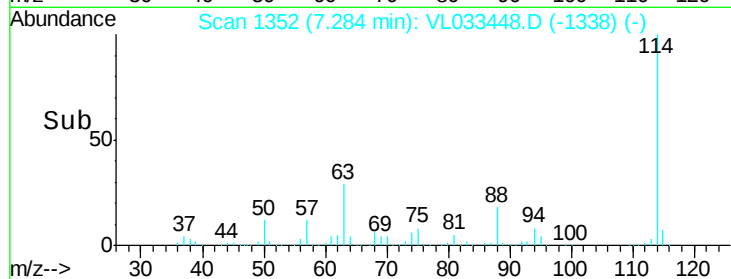
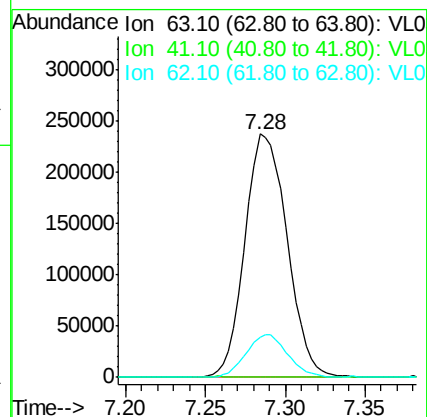
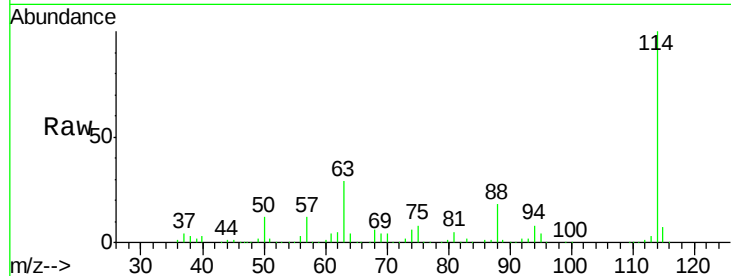




#39
 1,2-Dichloropropane
 Concen: 8.168 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.46 min
 Lab File: VL033448.D
 Acq: 25 Mar 2019 22:44

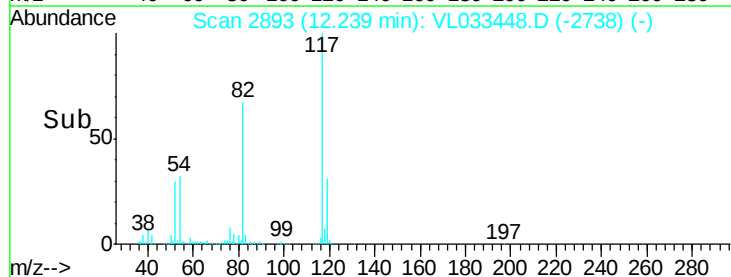
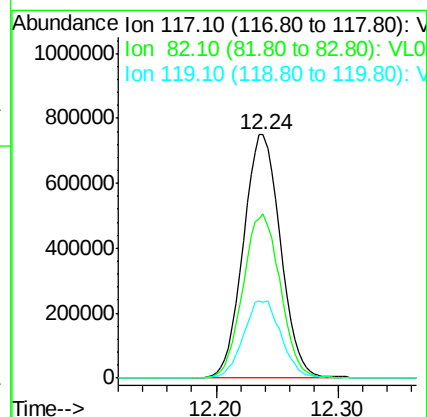
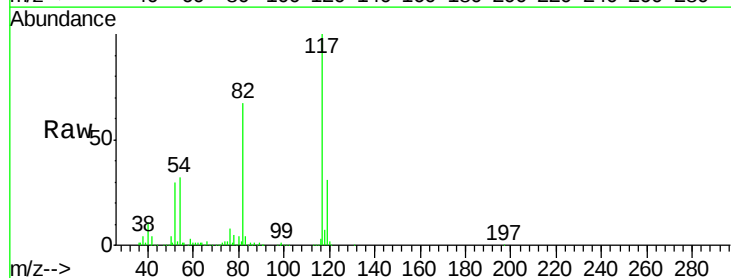
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

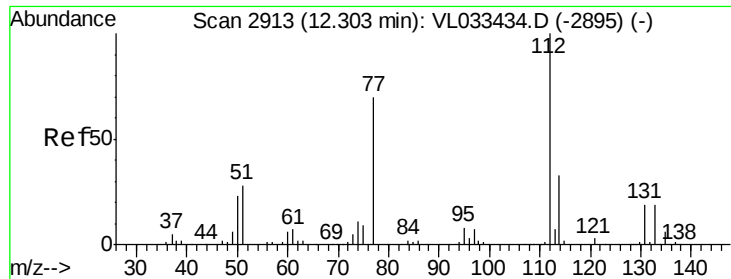
Tgt Ion: 63 Resp: 428260
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 16.4 54.0 81.0#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.24 min Scan# 2893
 Delta R.T. -0.00 min
 Lab File: VL033448.D
 Acq: 25 Mar 2019 22:44

Tgt Ion: 117 Resp: 1577166
 Ion Ratio Lower Upper
 117 100
 82 68.1 51.5 77.3
 119 32.5 25.5 38.3

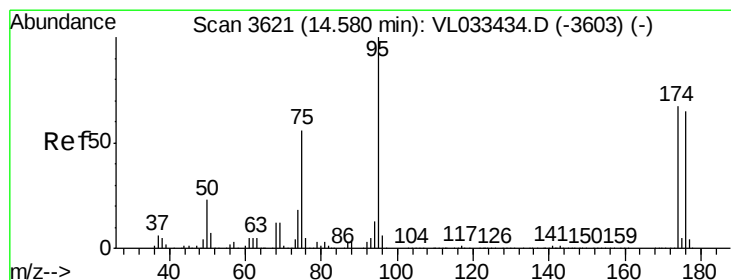
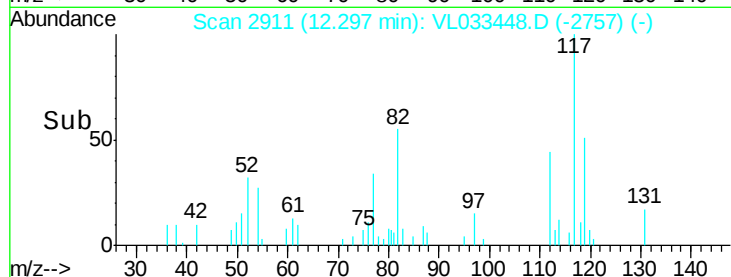
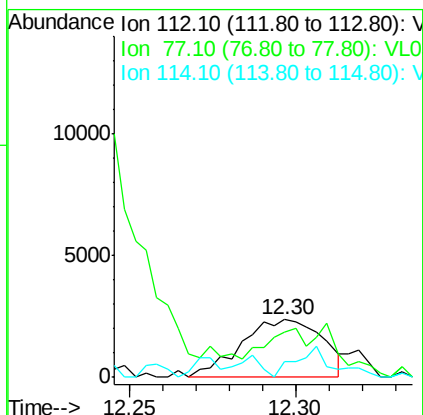
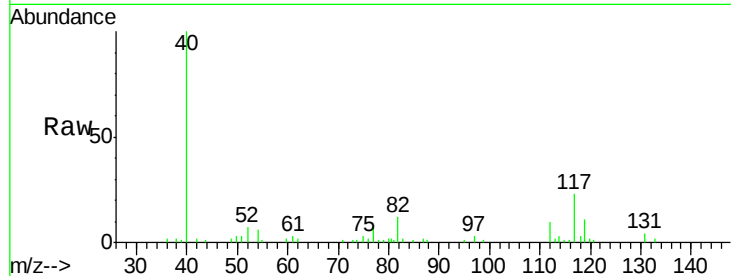




#57
Chlorobenzene
Concen: 0.033 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033448.D
Acq: 25 Mar 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 112 Resp: 4050
Ion Ratio Lower Upper
112 100
77 38.2 57.3 85.9#
114 17.7 29.8 36.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033448.D
Acq: 25 Mar 2019 22:44

Tgt Ion: 95 Resp: 1226597
Ion Ratio Lower Upper
95 100
174 65.4 52.9 79.3
175 4.8 3.8 5.6

