

Data File : VL033066.D
Acq On : 4 Jan 2019 12:34
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Jan 04 14:09:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 03 19:04:31 2019
QLast Update : Thu Jan 03 19:04:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1117986	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2696004	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2542570	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1932555	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

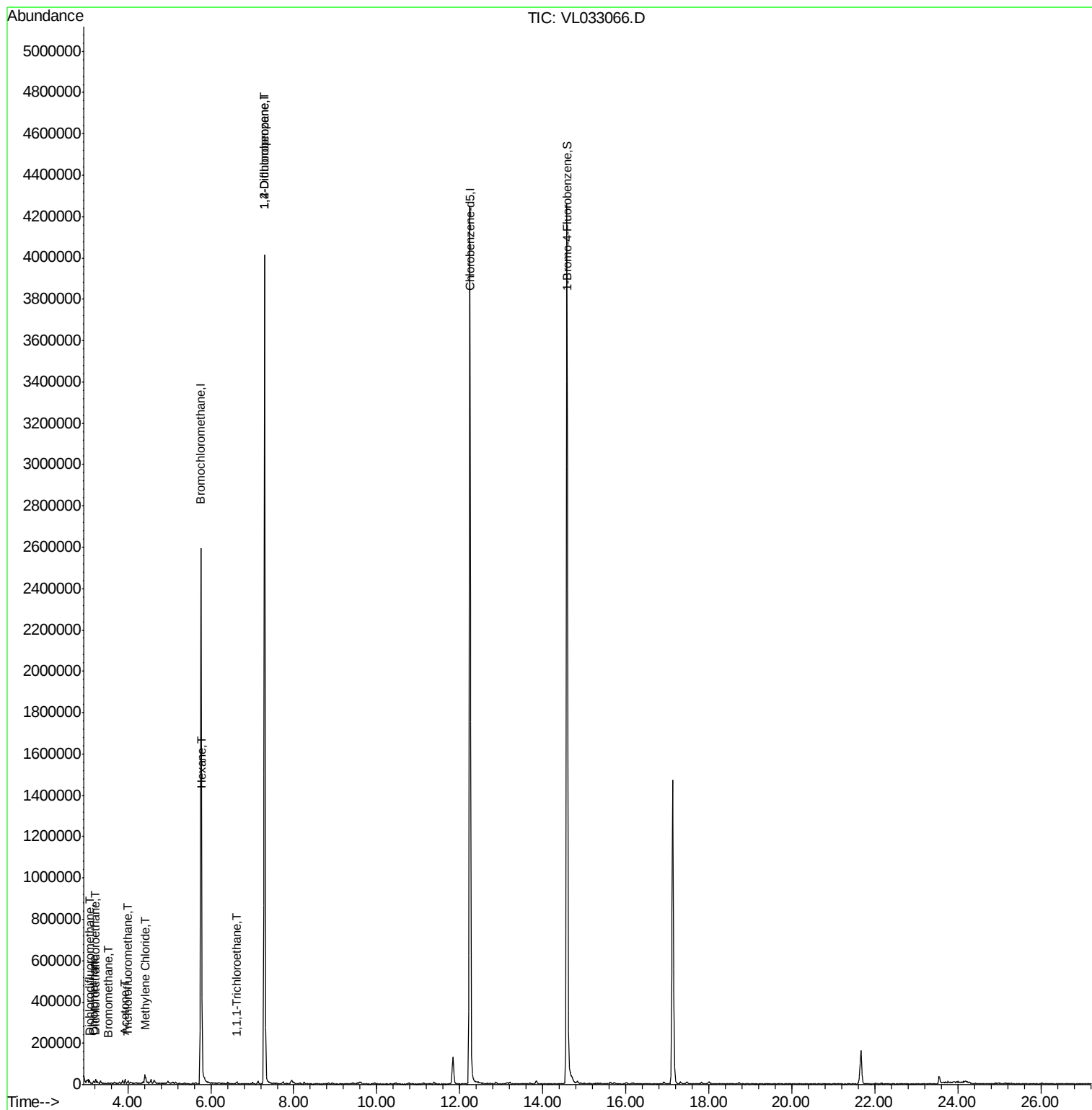
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	9120	0.037	ppbv #	85
4) Chloromethane	3.17	50	11602	0.147	ppbv	91
6) Bromomethane	3.52	94	1615	0.032	ppbv #	69
8) Dichlorotetrafluoroethane	3.23	85	6876	0.035	ppbv	85
11) Trichlorofluoromethane	4.01	101	7850	0.036	ppbv	97
15) Acetone	3.93	43	18253	0.125	ppbv	94
20) Methylene Chloride	4.41	84	6920	0.107	ppbv #	88
26) Hexane	5.79	57	6336	0.051	ppbv #	79
32) 1,1,1-Trichloroethane	6.63	97	6610	0.030	ppbv	96
39) 1,2-Dichloropropane	7.29	63	676207	8.127	ppbv #	23

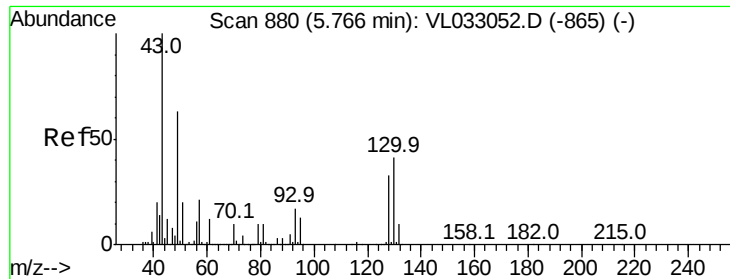
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL033066.D
Acq On : 4 Jan 2019 12:34
Operator : SY/AP
Sample : VSTDICCO.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCO.03

Quant Time: Jan 04 14:09:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 03 19:04:31 2019
QLast Update : Thu Jan 03 19:04:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

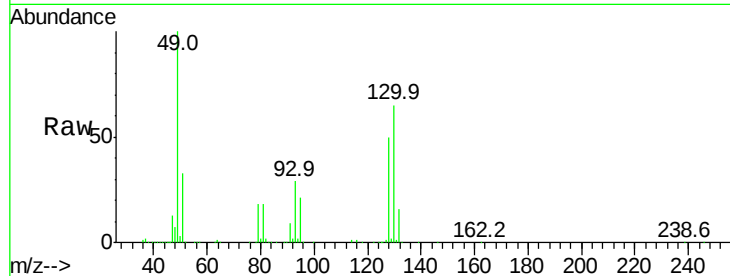
Tgt Ion: 49 Resp: 1117986

Ion Ratio Lower Upper

49 100

128 53.9 26.2 78.5

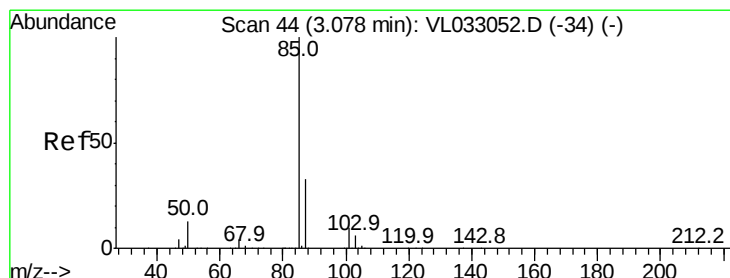
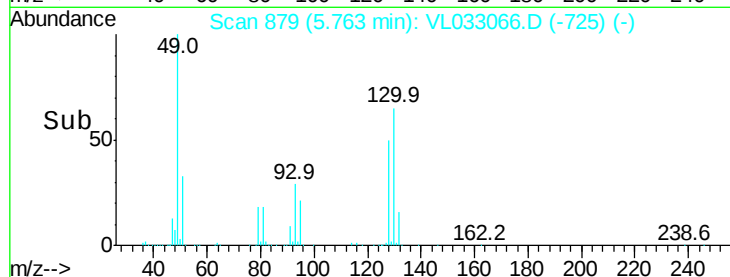
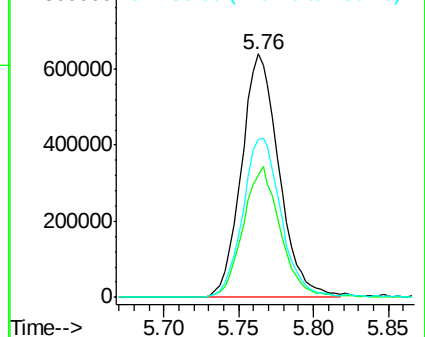
130 67.8 33.6 100.6



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



#2

Dichlorodifluoromethane

Concen: 0.037 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033066.D

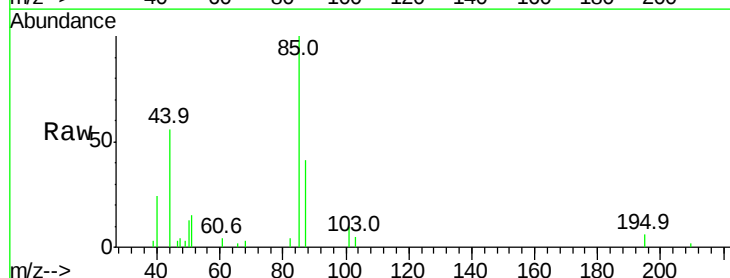
Acq: 4 Jan 2019 12:34

Tgt Ion: 85 Resp: 9120

Ion Ratio Lower Upper

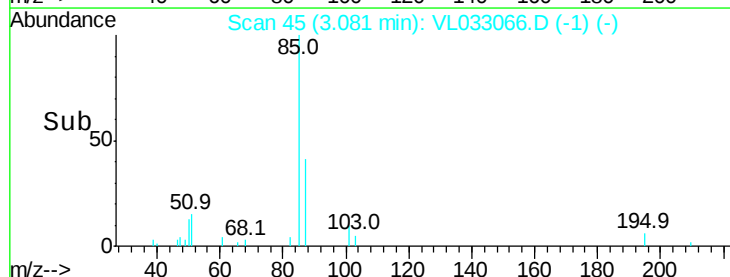
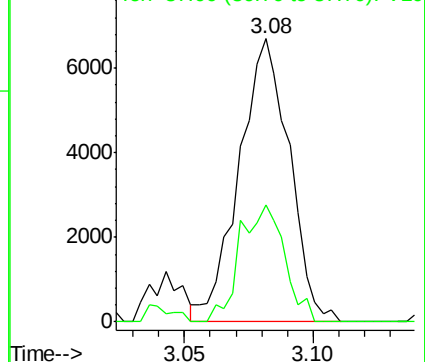
85 100

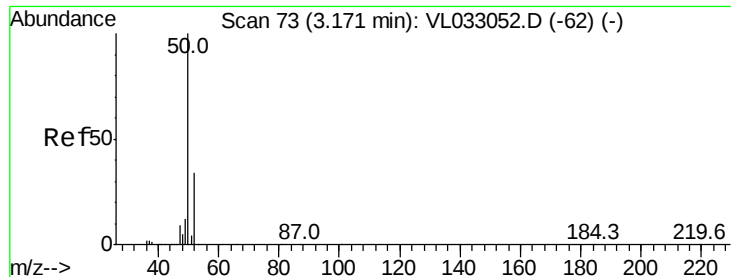
87 41.2 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.147 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

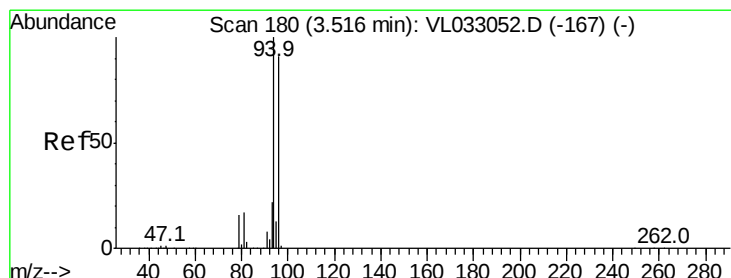
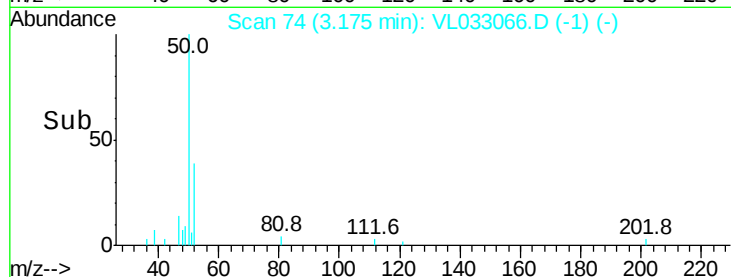
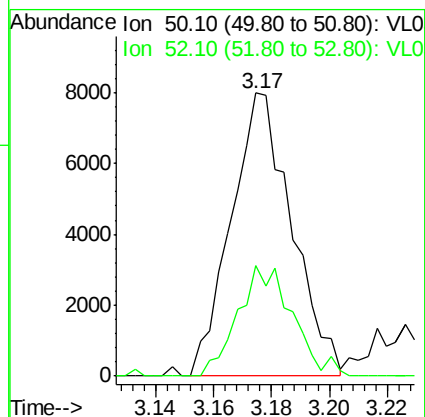
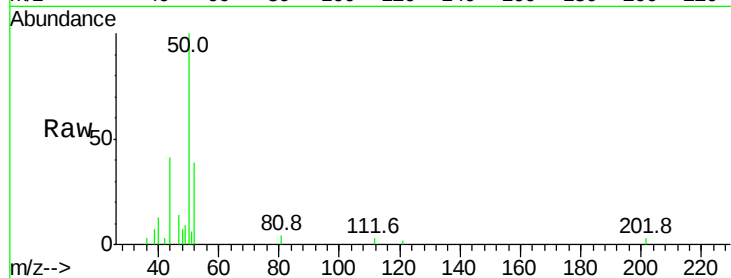
VSTDIC0.03

Tgt Ion: 50 Resp: 11602

Ion Ratio Lower Upper

50 100

52 39.0 26.9 40.3



#6

Bromomethane

Concen: 0.032 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033066.D

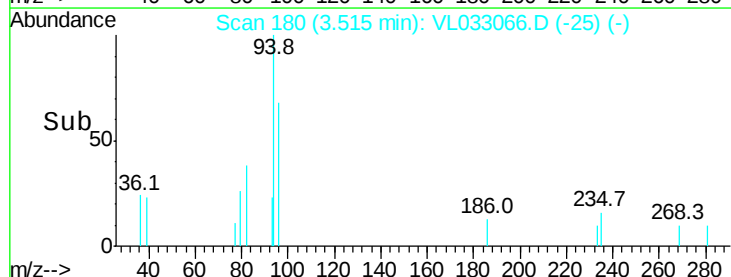
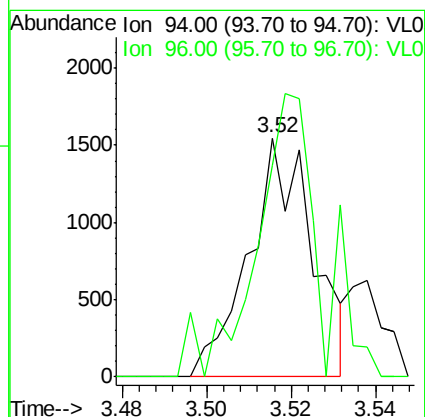
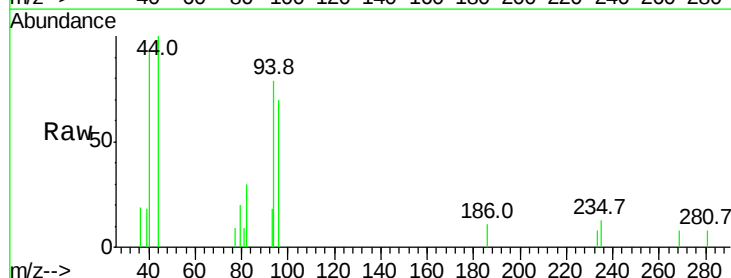
Acq: 4 Jan 2019 12:34

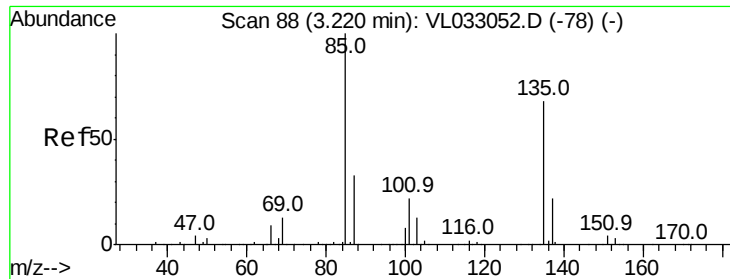
Tgt Ion: 94 Resp: 1615

Ion Ratio Lower Upper

94 100

96 61.7 72.8 109.2#





#8

Dichlorotetrafluoroethane

Concen: 0.035 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

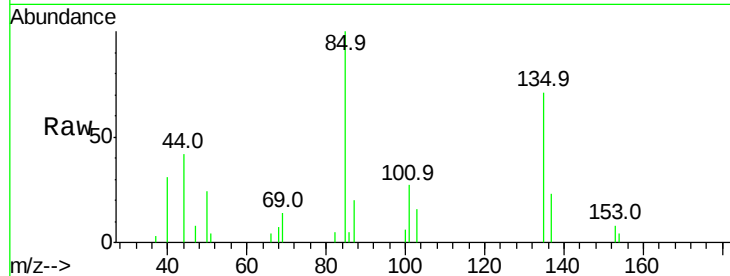
VSTDIC0.03

Tgt Ion: 85 Resp: 6876

Ion Ratio Lower Upper

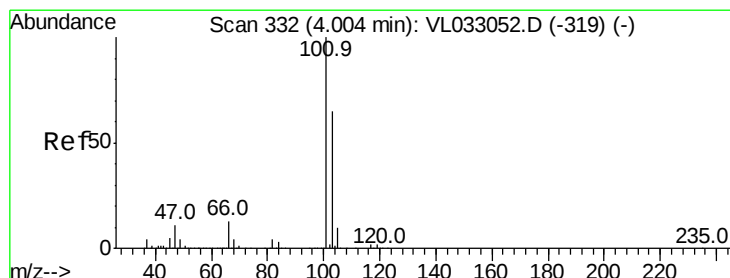
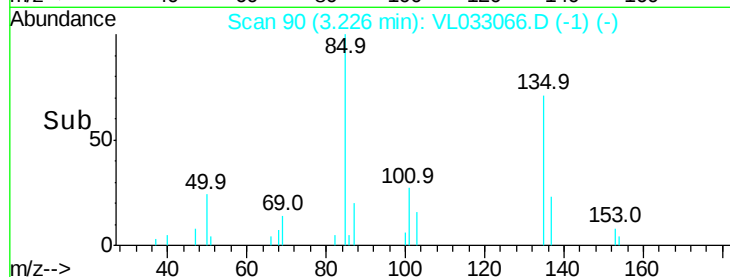
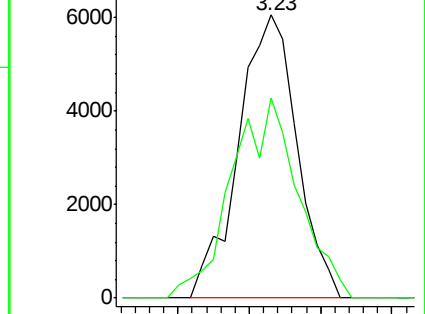
85 100

135 80.4 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#11

Trichlorofluoromethane

Concen: 0.036 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033066.D

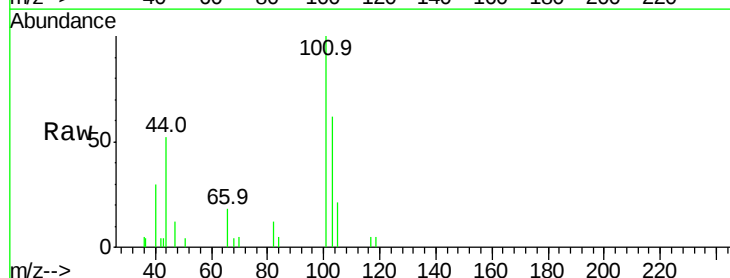
Acq: 4 Jan 2019 12:34

Tgt Ion: 101 Resp: 7850

Ion Ratio Lower Upper

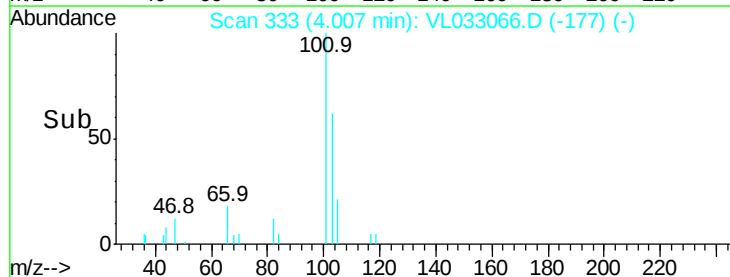
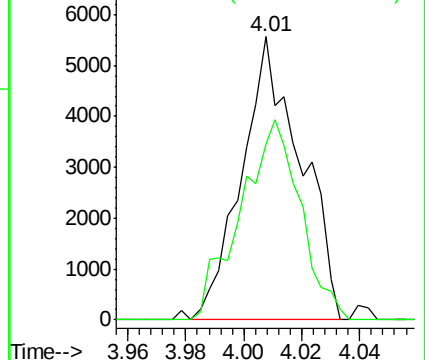
101 100

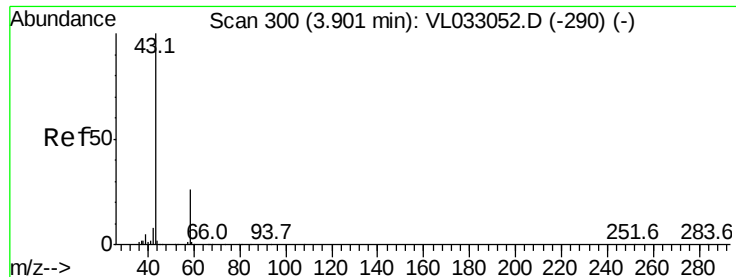
103 62.0 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#15

Acetone

Concen: 0.125 ppbv

RT: 3.93 min Scan# 310

Delta R.T. 0.03 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

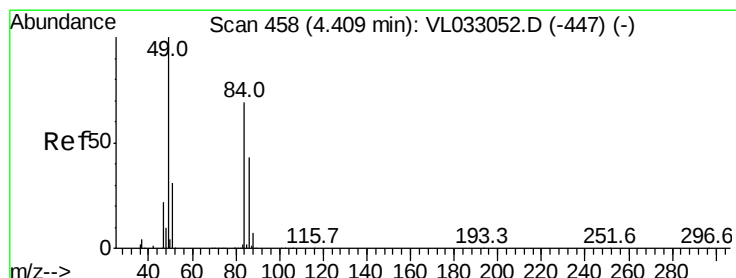
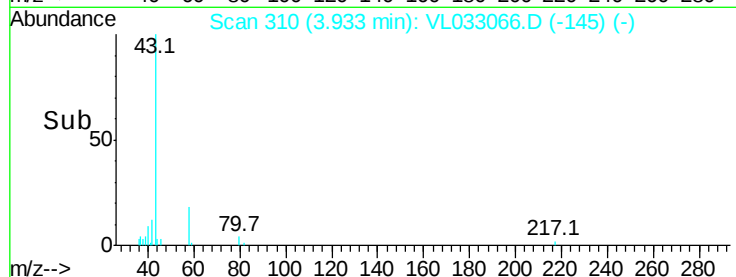
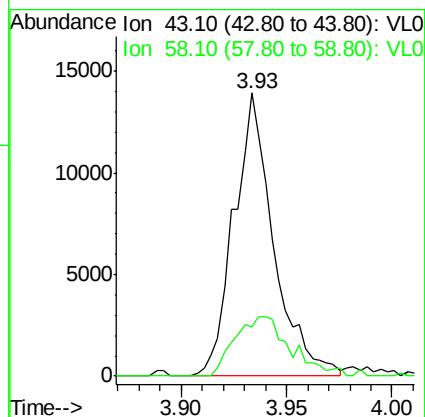
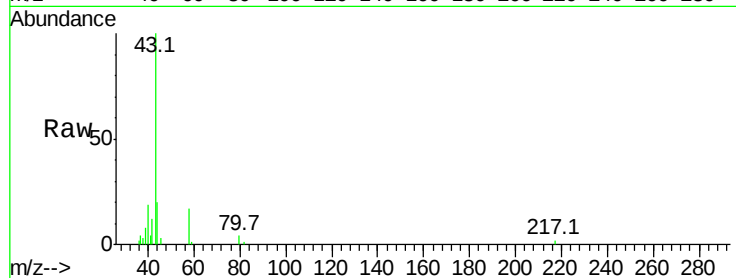
VSTDIC0.03

Tgt Ion: 43 Resp: 18253

Ion Ratio Lower Upper

43 100

58 29.6 21.1 31.7



#20

Methylene Chloride

Concen: 0.107 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Tgt Ion: 84 Resp: 6920

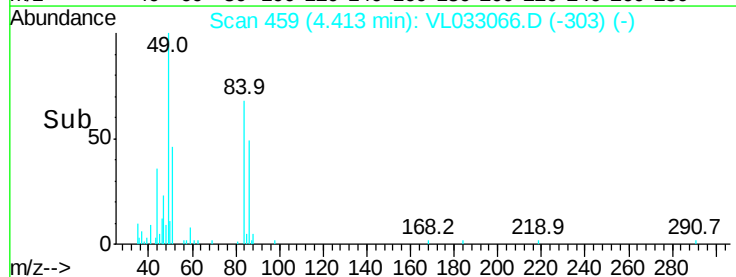
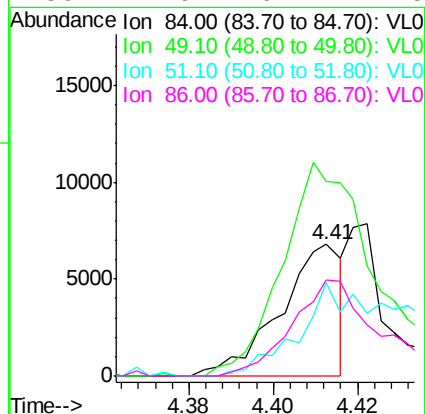
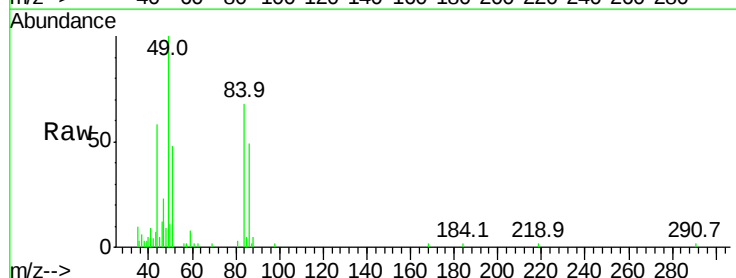
Ion Ratio Lower Upper

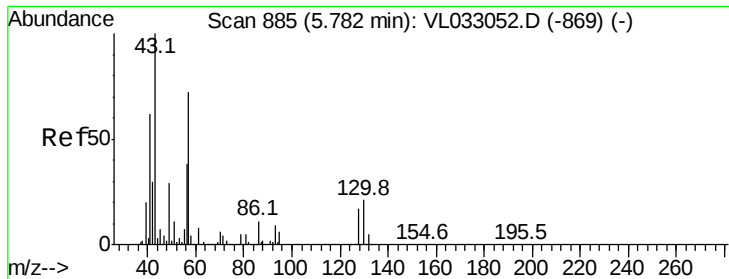
84 100

49 147.5 115.8 173.6

51 70.9 35.7 53.5#

86 72.6 49.7 74.5





#26

Hexane

Concen: 0.051 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 57 Resp: 6336

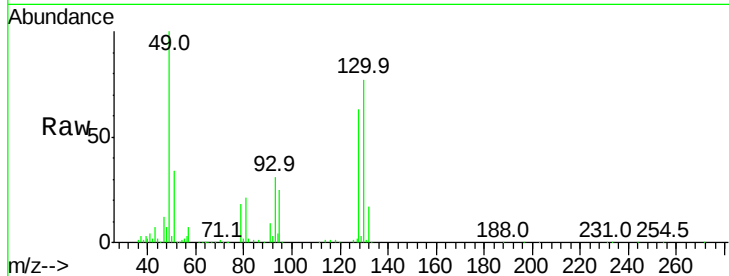
Ion Ratio Lower Upper

57 100

41 116.5 70.8 106.2#

43 193.0 171.8 257.6

56 79.8 41.9 62.9#

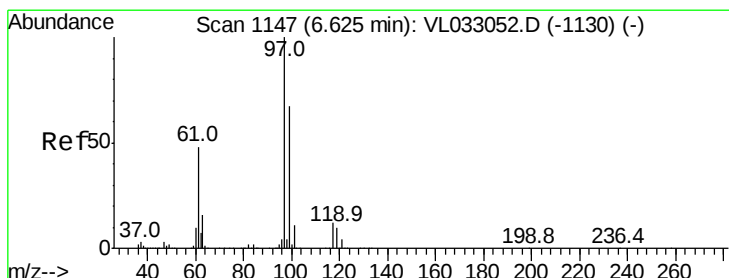
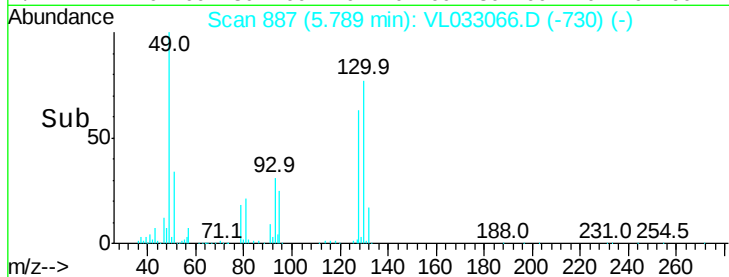
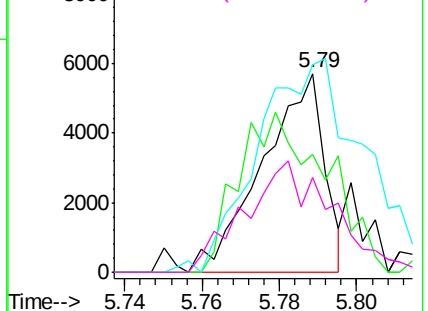


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#32

1,1,1-Trichloroethane

Concen: 0.030 ppbv

RT: 6.63 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

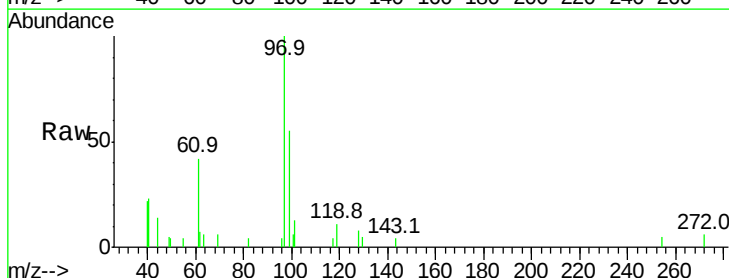
Tgt Ion: 97 Resp: 6610

Ion Ratio Lower Upper

97 100

99 64.6 51.1 76.7

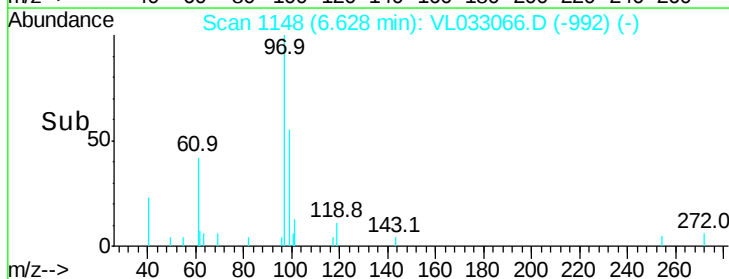
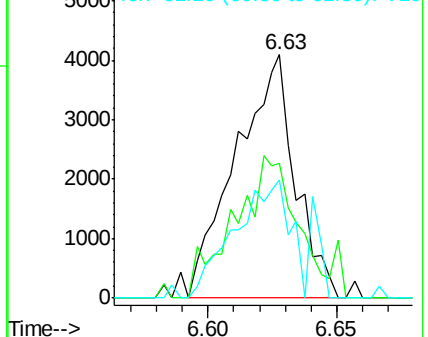
61 53.4 38.3 57.5

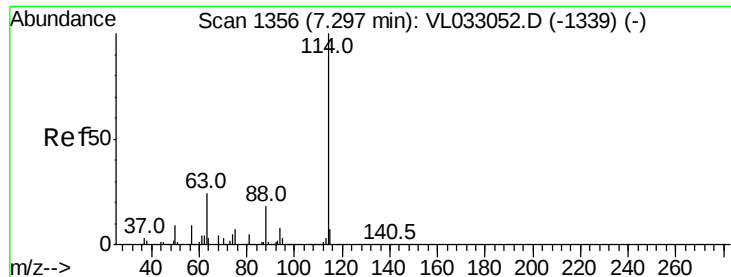


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

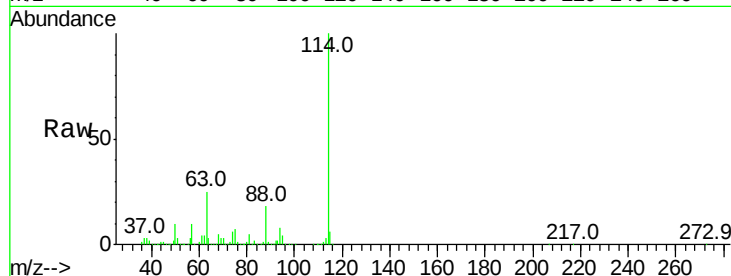
Tgt Ion:114 Resp: 2696004

Ion Ratio Lower Upper

114 100

63 25.3 20.1 30.1

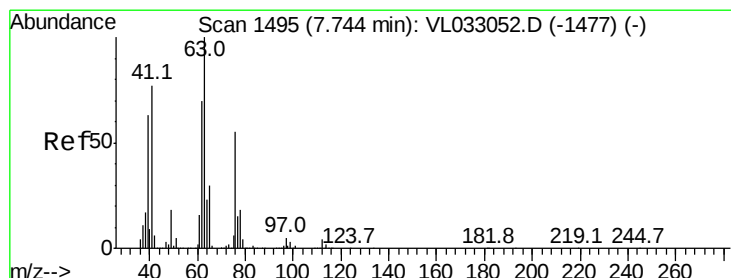
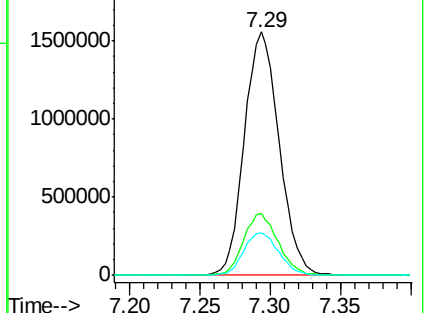
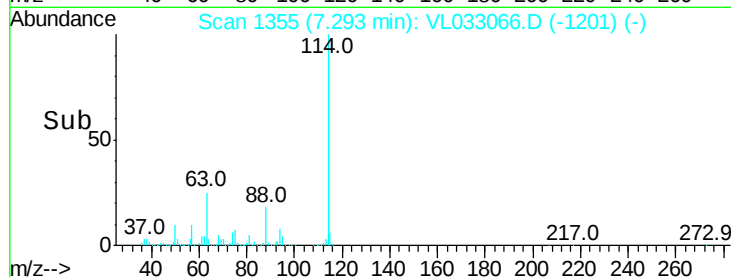
88 17.9 14.0 21.0



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: 8.127 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

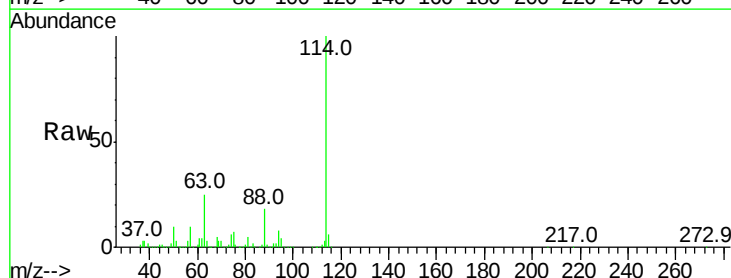
Tgt Ion: 63 Resp: 676207

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

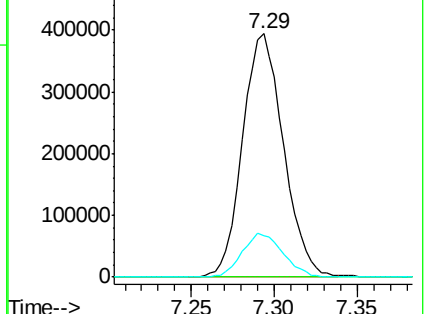
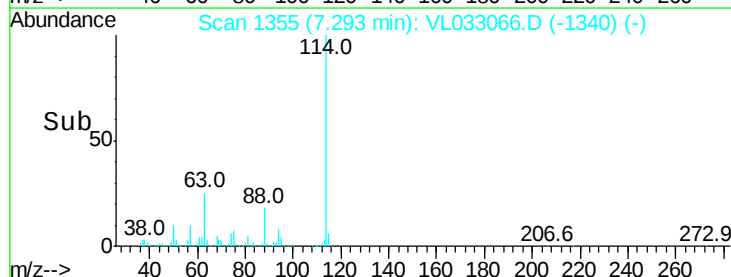
62 17.0 55.8 83.6#

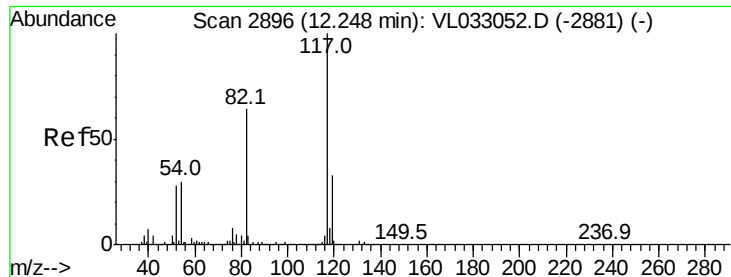


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

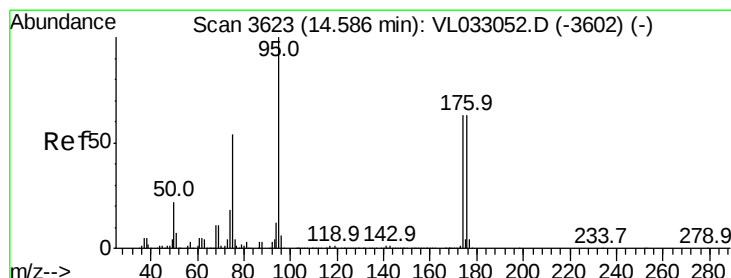
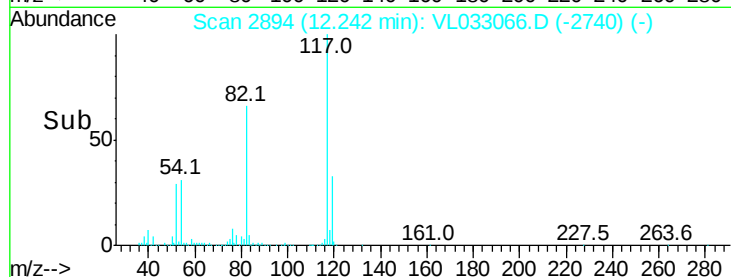
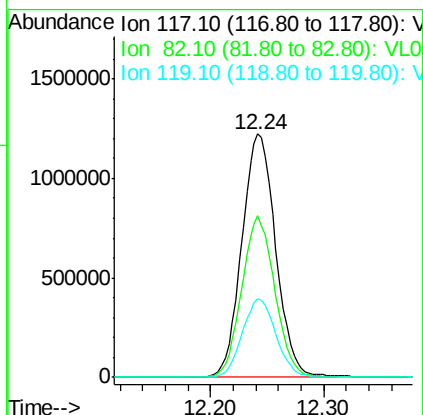
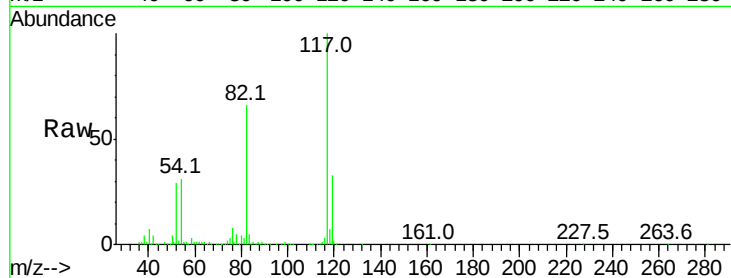




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033066.D
Acq: 4 Jan 2019 12:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 117 Resp: 2542570
Ion Ratio Lower Upper
117 100
82 65.3 48.9 73.3
119 32.5 24.6 37.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.191 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033066.D
Acq: 4 Jan 2019 12:34

Tgt Ion: 95 Resp: 1932555
Ion Ratio Lower Upper
95 100
174 65.2 51.9 77.9
175 4.7 3.9 5.9

