

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL123019\
 Data File : VL034530.D
 Acq On : 31 Dec 2019 3:05
 Operator : SY/AP
 Sample : K6470-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 27-1DL

Quant Time: Dec 31 05:03:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	976104	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1941762	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1902643	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1588185	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

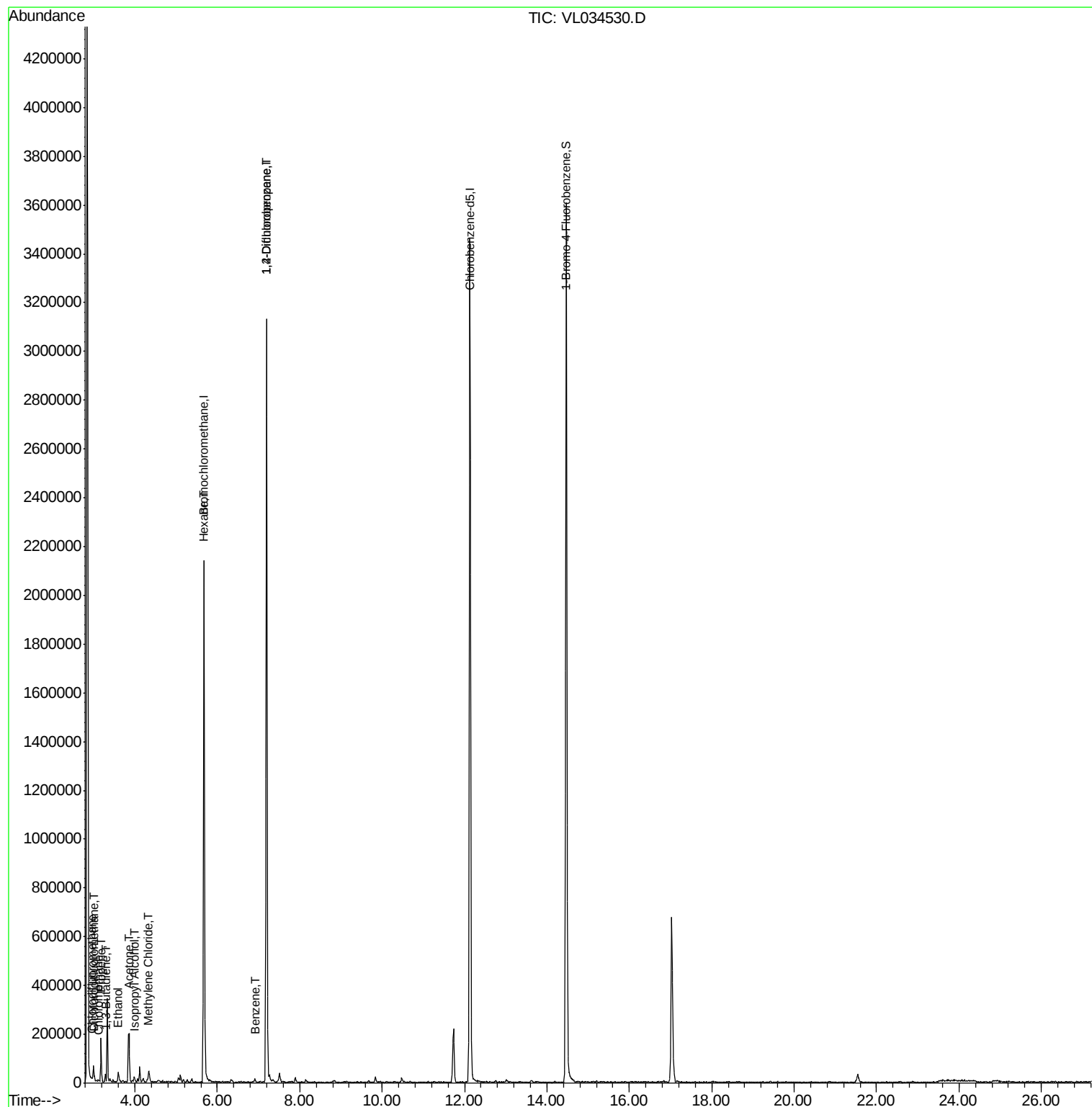
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	10336	0.067	ppbv	94
3) Chlorodifluoromethane	2.96	51	8867	0.076	ppbv #	90
4) Chloromethane	3.11	50	2931	0.042	ppbv #	72
9) Propene	3.18	41	40173	0.896	ppbv	96
13) Ethanol	3.60	45	19517	1.569	ppbv #	25
15) Acetone	3.84	43	189847	1.333	ppbv	95
16) 1,3-Butadiene	3.28	39	7910	0.144	ppbv #	14
19) Isopropyl Alcohol	3.98	45	14391	0.156	ppbv #	95
20) Methylene Chloride	4.34	84	13538	0.242	ppbv #	83
26) Hexane	5.69	57	3038	0.032	ppbv #	1
36) Benzene	6.91	78	5121	0.030	ppbv	92
39) 1,2-Dichloropropane	7.19	63	576891	8.289	ppbv #	23

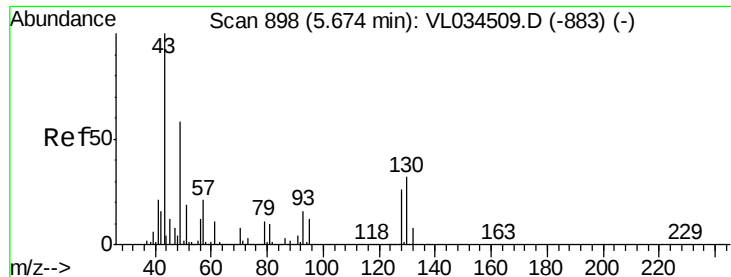
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL123019\
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MSVOA_L
ClientSampleId :
27-1DL

Quant Time: Dec 31 05:03:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Instrument :

MSVOA_L

ClientSampleId :

27-1DL

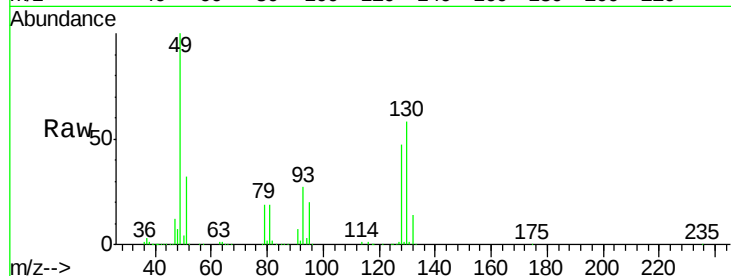
Tgt Ion: 49 Resp: 976104

Ion Ratio Lower Upper

49 100

128 43.6 22.4 67.2

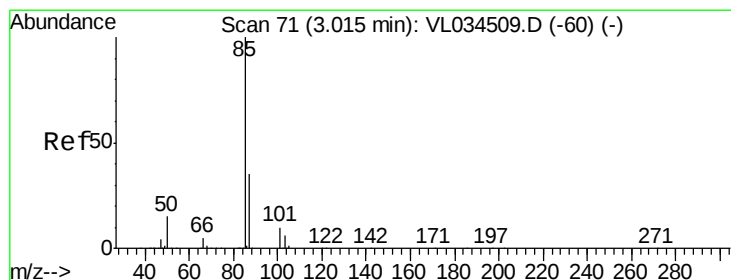
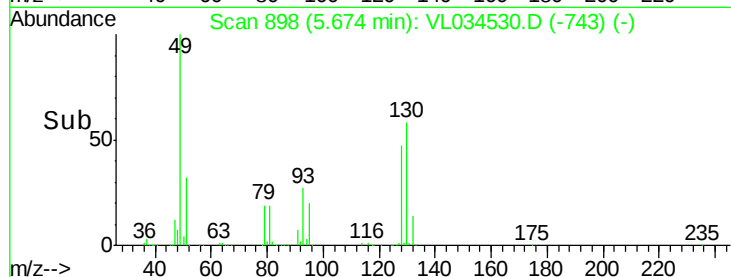
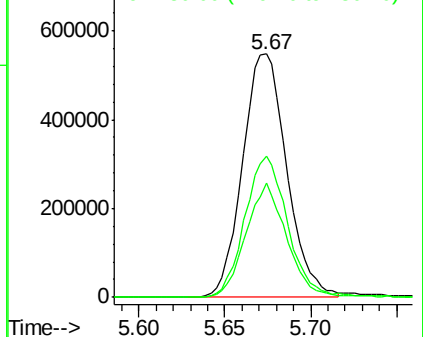
130 56.4 28.3 85.0



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: 0.067 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL034530.D

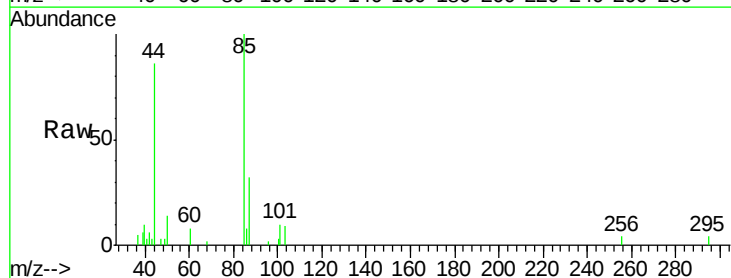
Acq: 31 Dec 2019 3:05

Tgt Ion: 85 Resp: 10336

Ion Ratio Lower Upper

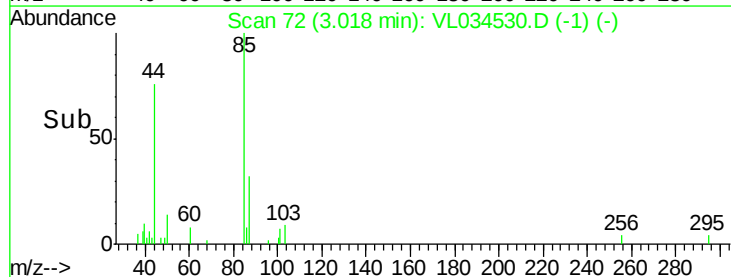
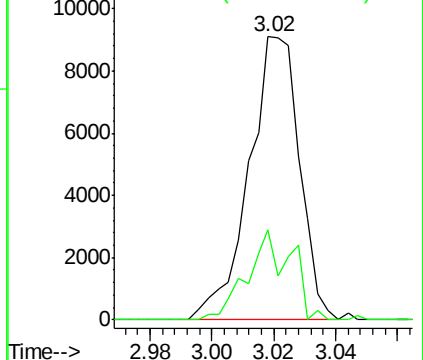
85 100

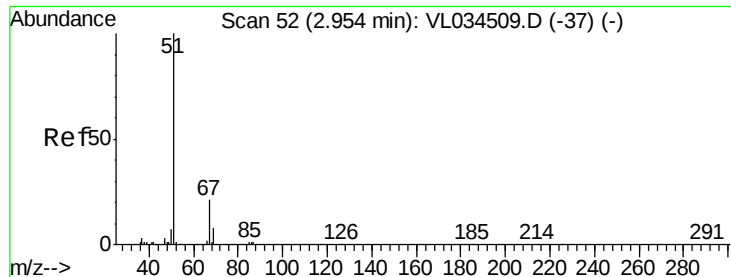
87 31.6 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.076 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.00 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Instrument :

MSVOA_L

ClientSampleId :

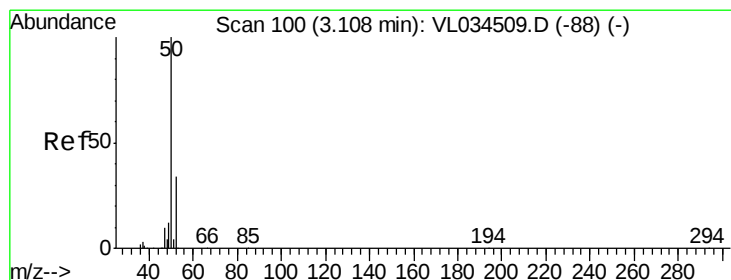
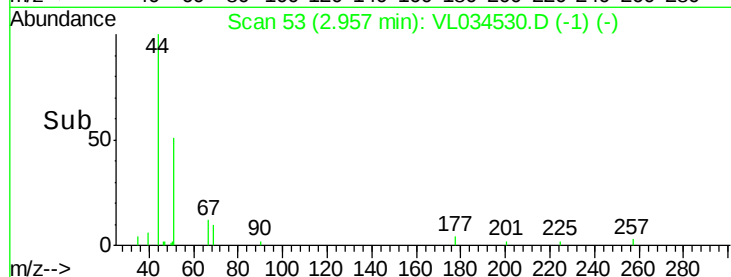
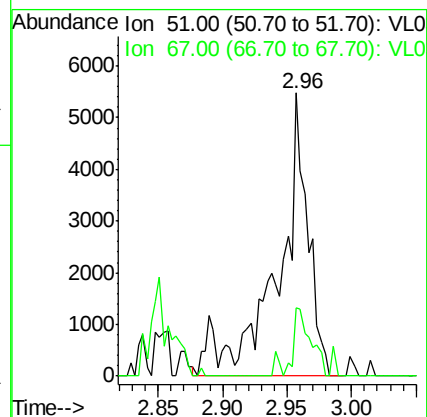
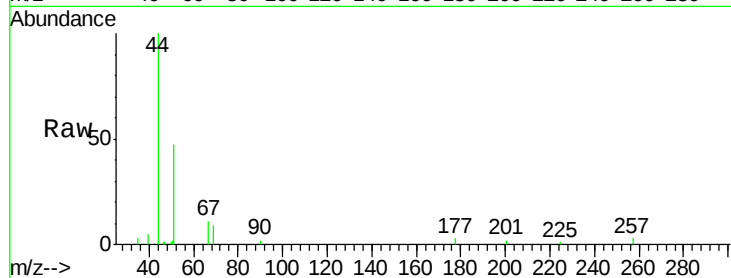
27-1DL

Tgt Ion: 51 Resp: 8867

Ion Ratio Lower Upper

51 100

67 16.3 16.8 25.2#



#4

Chloromethane

Concen: 0.042 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.00 min

Lab File: VL034530.D

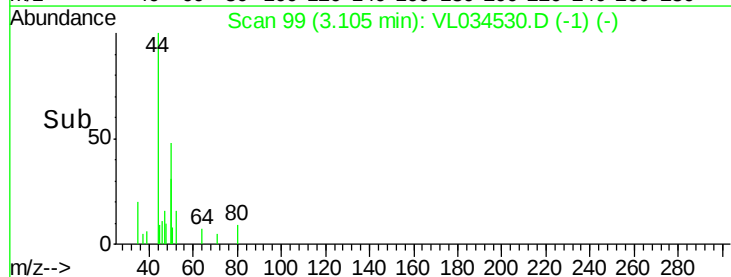
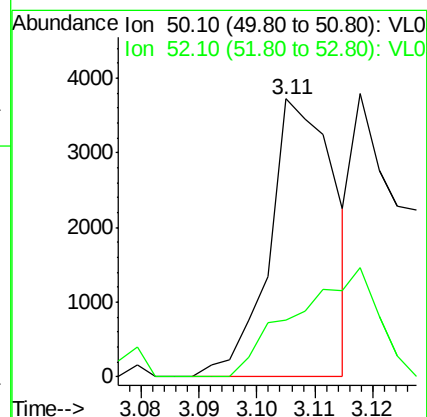
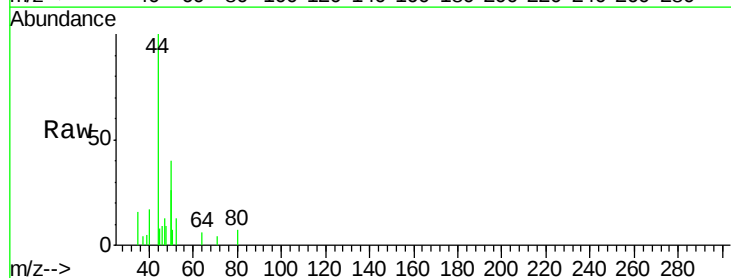
Acq: 31 Dec 2019 3:05

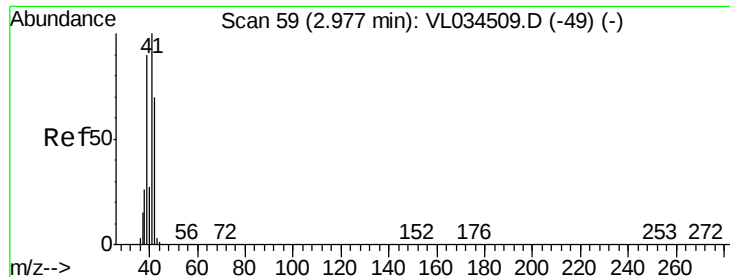
Tgt Ion: 50 Resp: 2931

Ion Ratio Lower Upper

50 100

52 18.4 27.6 41.4#





#9

Propene

Concen: 0.896 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.20 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Instrument :

MSVOA_L

ClientSampleId :

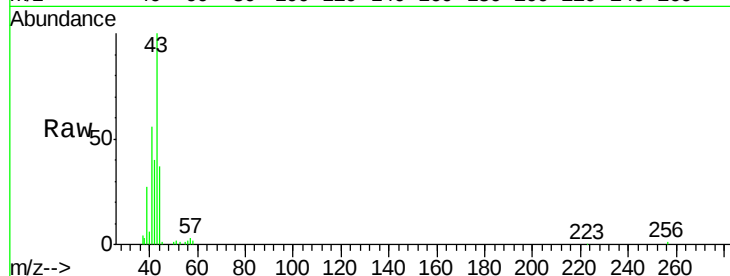
27-1DL

Tgt Ion: 41 Resp: 40173

Ion Ratio Lower Upper

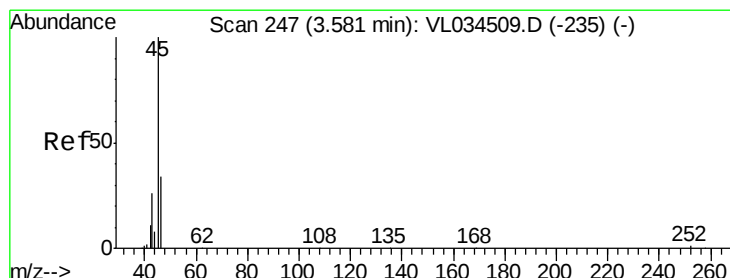
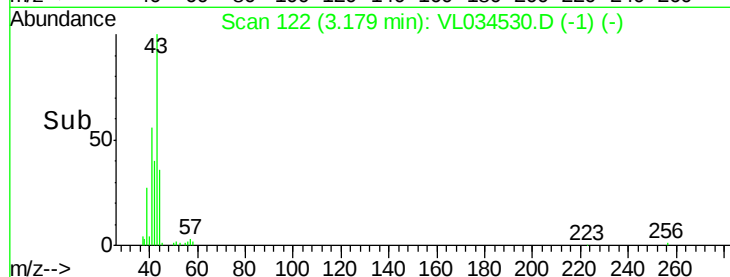
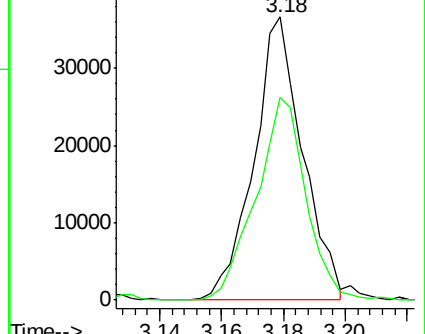
41 100

42 73.3 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 1.569 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL034530.D

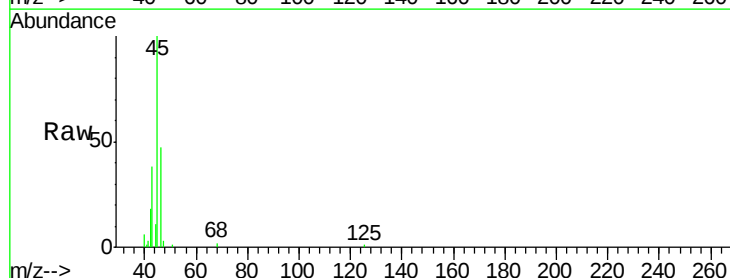
Acq: 31 Dec 2019 3:05

Tgt Ion: 45 Resp: 19517

Ion Ratio Lower Upper

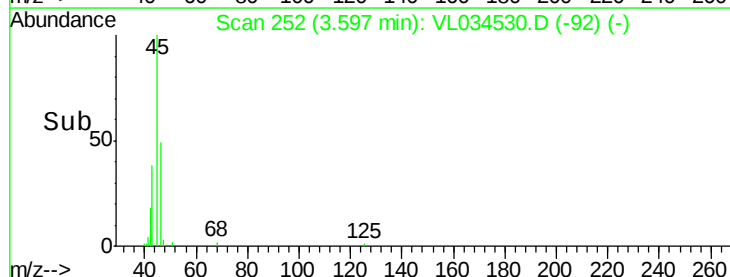
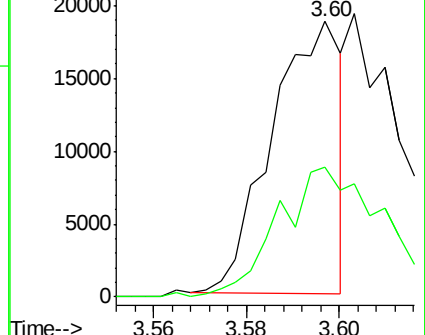
45 100

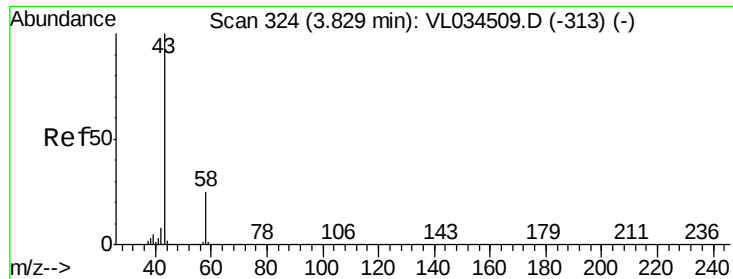
46 82.0 14.9 59.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.333 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Instrument :

MSVOA_L

ClientSampleId :

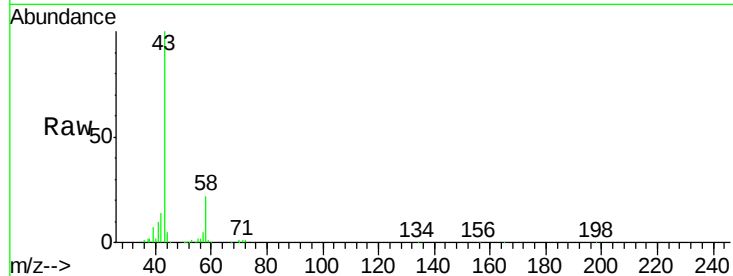
27-1DL

Tgt Ion: 43 Resp: 189847

Ion Ratio Lower Upper

43 100

58 23.0 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

120000

100000

80000

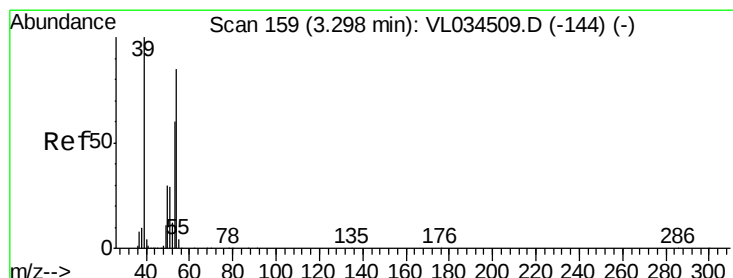
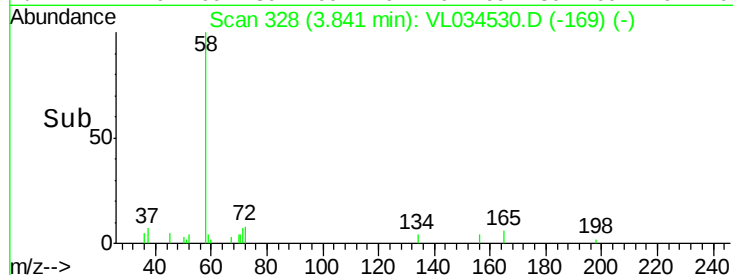
60000

40000

20000

0

Time-->



#16

1,3-Butadiene

Concen: 0.144 ppbv

RT: 3.28 min Scan# 153

Delta R.T. -0.02 min

Lab File: VL034530.D

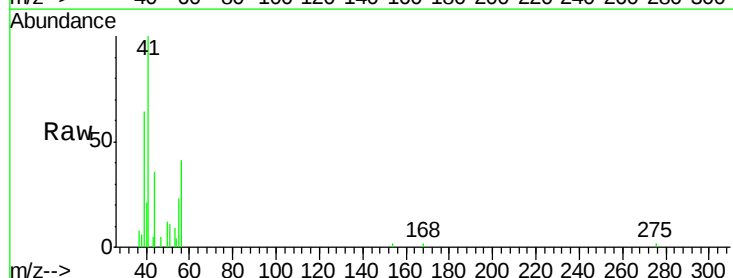
Acq: 31 Dec 2019 3:05

Tgt Ion: 39 Resp: 7910

Ion Ratio Lower Upper

39 100

54 5.2 66.2 99.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.28

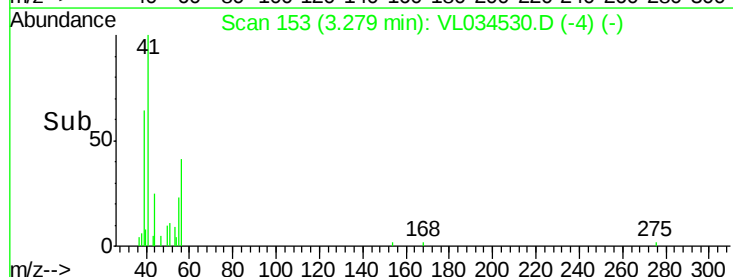
30000

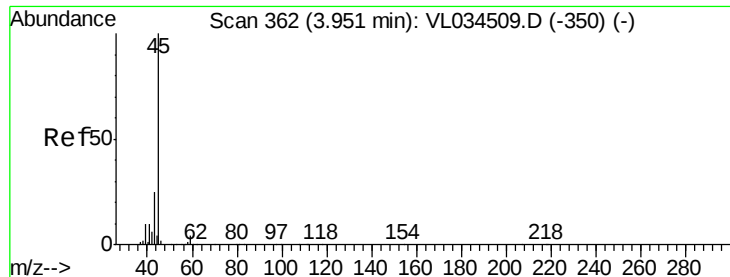
20000

10000

0

Time-->





#19

Isopropyl Alcohol

Concen: 0.156 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Instrument :

MSVOA_L

ClientSampleId :

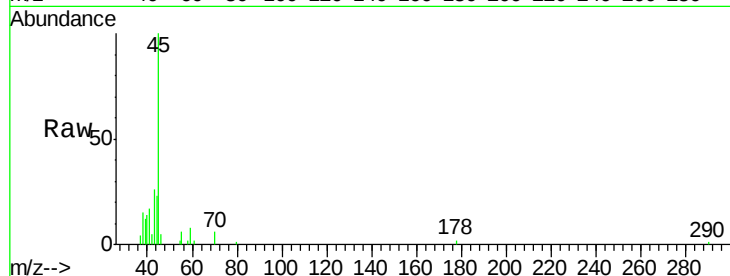
27-1DL

Tgt Ion: 45 Resp: 14391

Ion Ratio Lower Upper

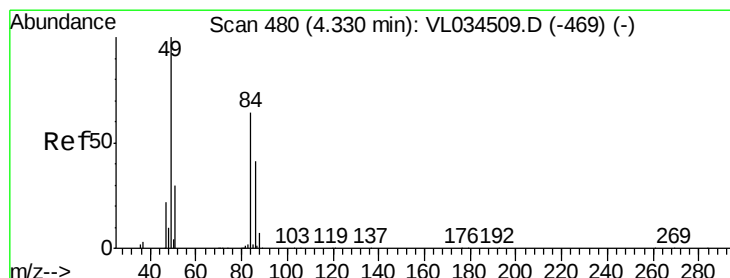
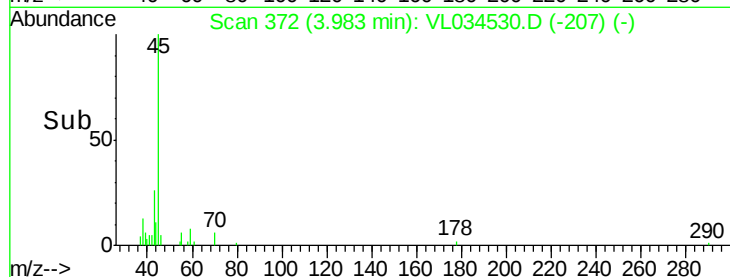
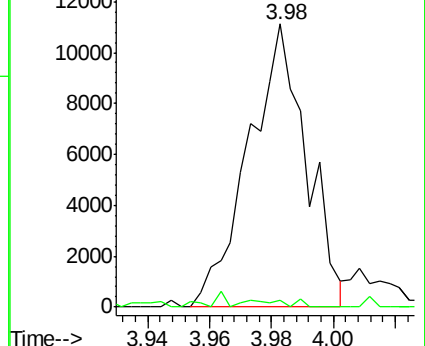
45 100

58 0.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.242 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.01 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Tgt Ion: 84 Resp: 13538

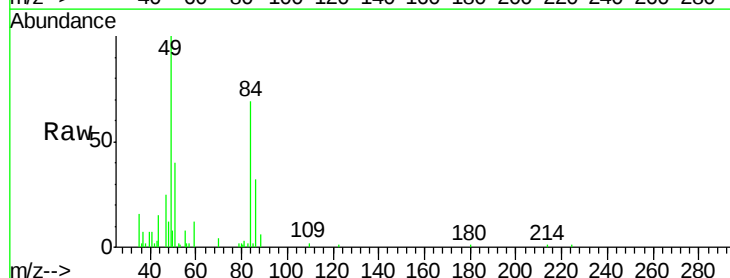
Ion Ratio Lower Upper

84 100

49 135.7 124.4 186.6

51 51.4 37.0 55.6

86 41.7 50.9 76.3#

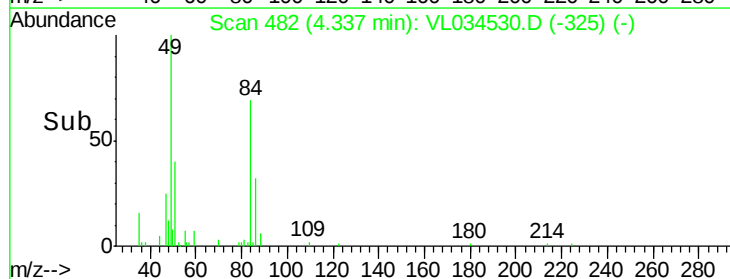
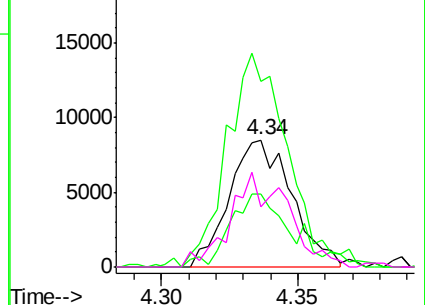


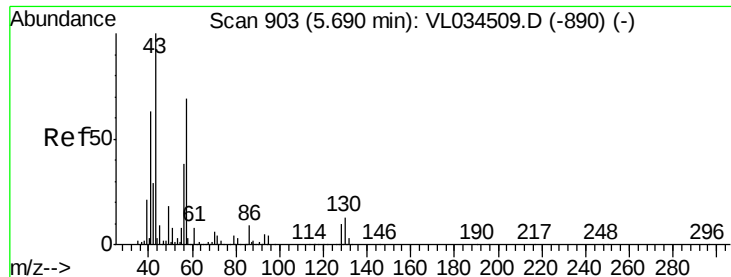
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#26

Hexane

Concen: 0.032 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Instrument :

MSVOA_L

ClientSampleId :

27-1DL

Tgt Ion: 57 Resp: 3038

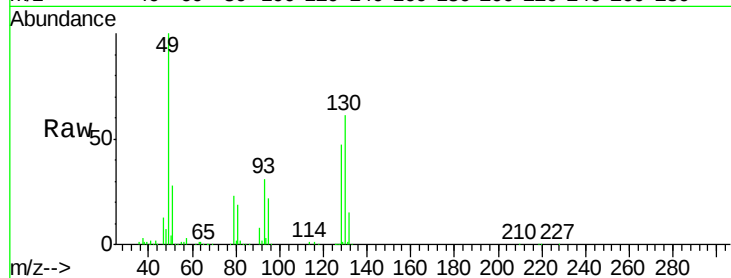
Ion Ratio Lower Upper

57 100

41 0.0 75.3 112.9#

43 0.0 189.4 284.2#

56 0.0 42.8 64.2#

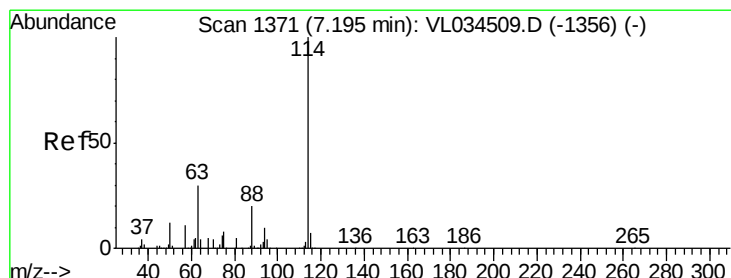
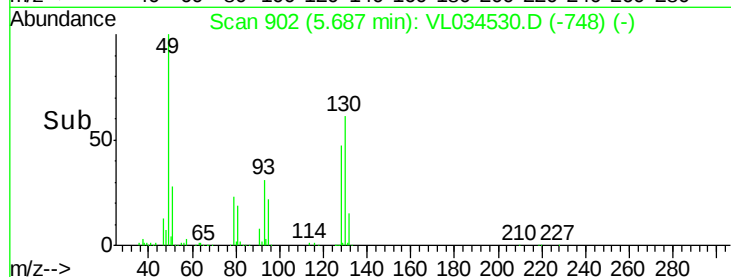
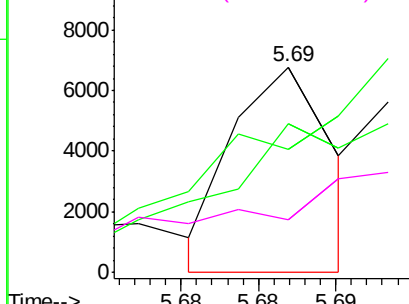


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.00 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

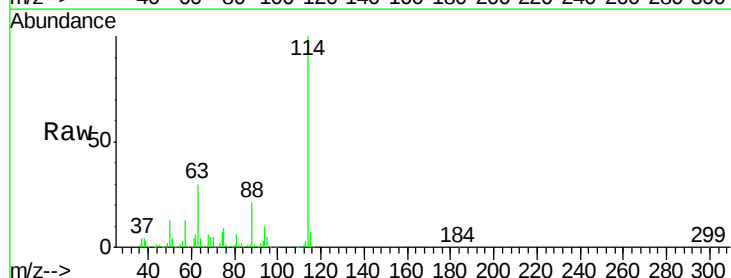
Tgt Ion: 114 Resp: 1941762

Ion Ratio Lower Upper

114 100

63 29.9 24.1 36.1

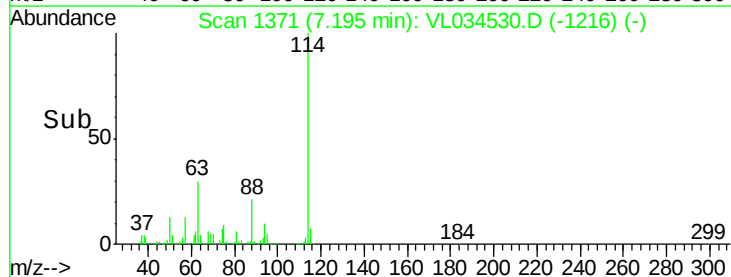
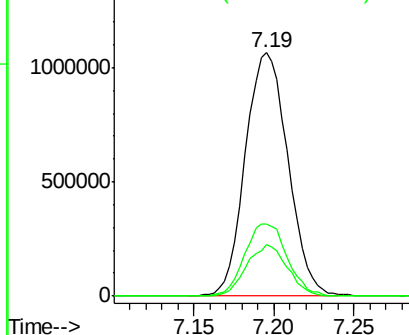
88 20.2 15.7 23.5

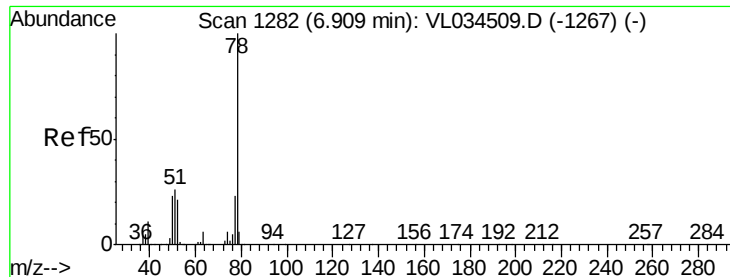


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.030 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

Instrument :

MSVOA_L

ClientSampleId :

27-1DL

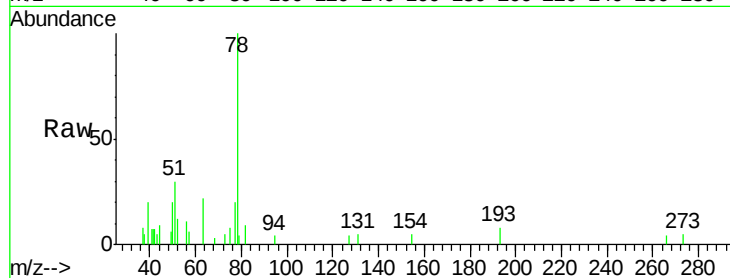
Tgt Ion: 78 Resp: 5121

Ion Ratio Lower Upper

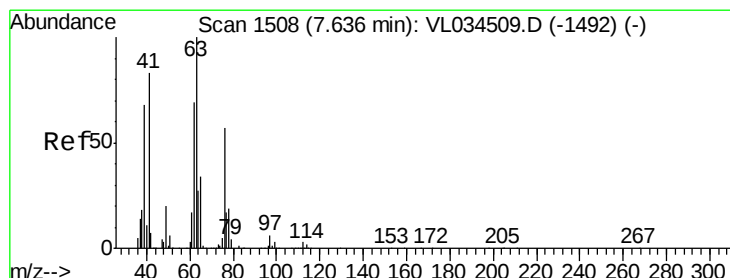
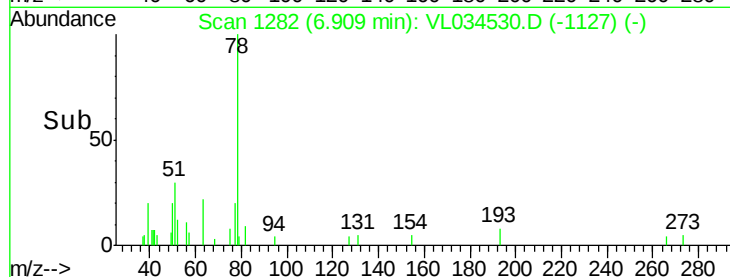
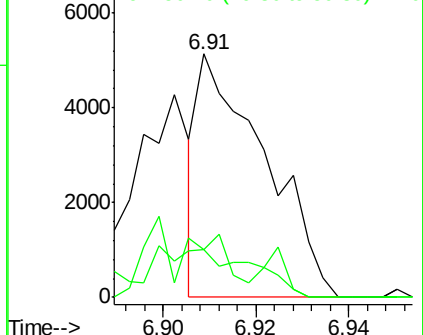
78 100

77 19.6 18.6 28.0

50 19.7 18.8 28.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.289 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.44 min

Lab File: VL034530.D

Acq: 31 Dec 2019 3:05

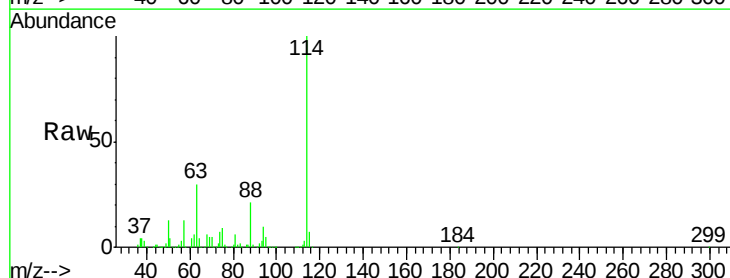
Tgt Ion: 63 Resp: 576891

Ion Ratio Lower Upper

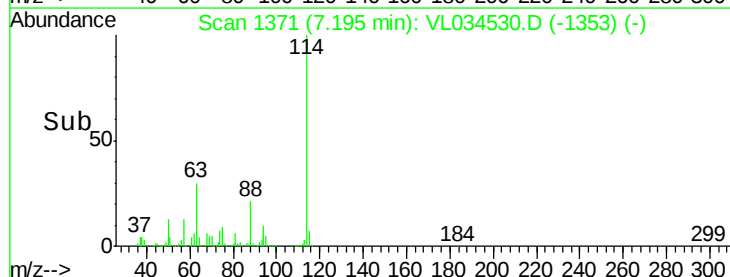
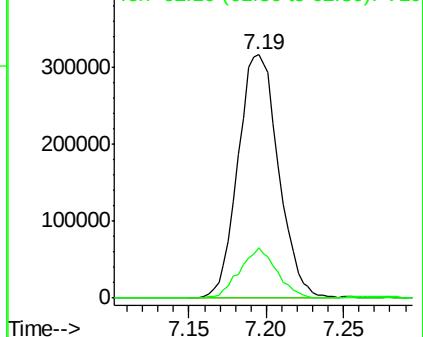
63 100

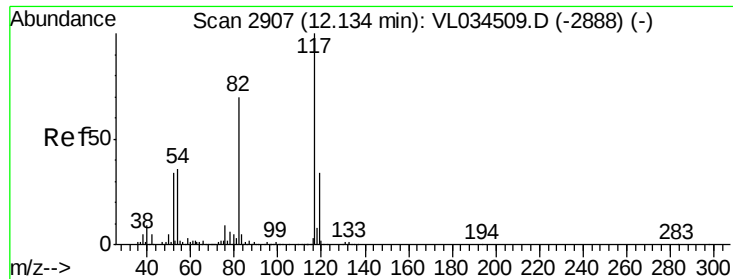
41 0.0 66.1 99.1#

62 20.5 54.9 82.3#



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

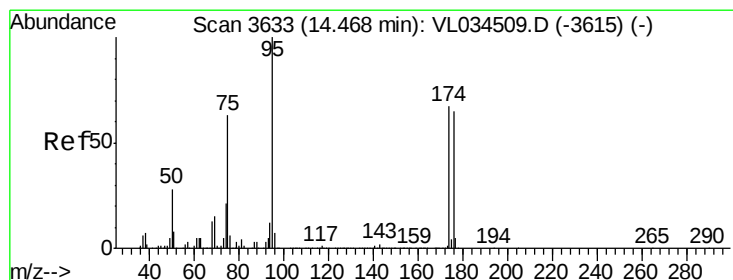
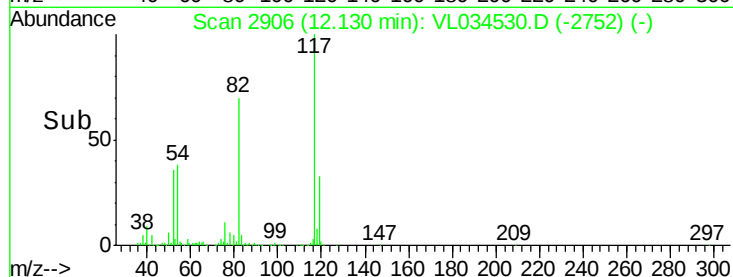
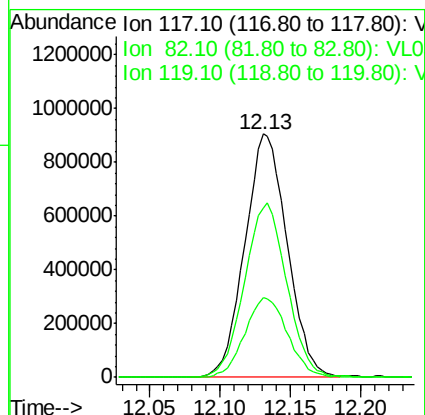
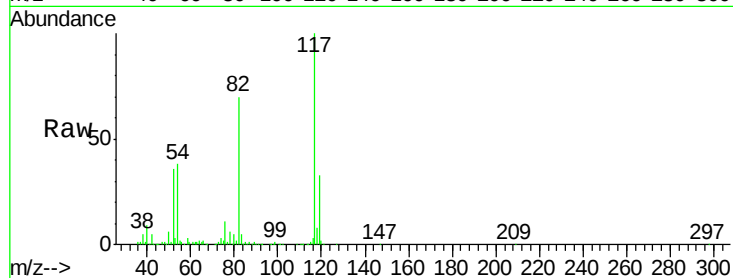




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL034530.D
Acq: 31 Dec 2019 3:05

Instrument :
MSVOA_L
ClientSampleId :
27-1DL

Tgt Ion: 117 Resp: 1902643
Ion Ratio Lower Upper
117 100
82 71.8 56.2 84.4
119 33.4 27.1 40.7



#68
1-Bromo-4-Fluorobenzene
Concen: 10.003 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. 0.00 min
Lab File: VL034530.D
Acq: 31 Dec 2019 3:05

Tgt Ion: 95 Resp: 1588185
Ion Ratio Lower Upper
95 100
174 64.7 52.4 78.6
175 4.5 3.9 5.9

