

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035048.D
 Acq On : 19 May 2020 17:40
 Operator : SY/AP
 Sample : L2683-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

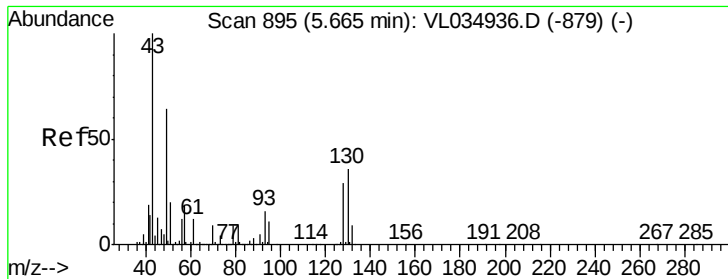
Quant Time: May 20 04:45:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1023504	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2290337	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2123749	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1833480	10.67	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	32930	0.227	ppbv 97
3) Chlorodifluoromethane	2.94	51	48929	0.419	ppbv 98
4) Chloromethane	3.10	50	52987	0.791	ppbv 89
7) Chloroethane	3.51	64	768	0.033	ppbv # 73
9) Propene	2.97	41	36947	0.729	ppbv 84
11) Trichlorofluoromethane	3.91	101	30878	0.206	ppbv # 81
13) Ethanol	3.57	45	81256	4.856	ppbv 94
15) Acetone	3.81	43	435979	3.222	ppbv 98
16) 1,3-Butadiene	3.26	39	6842	0.117	ppbv # 8
19) Isopropyl Alcohol	3.95	45	3508	0.039	ppbv # 94
20) Methylene Chloride	4.31	84	25550	0.570	ppbv 95
30) Cyclohexane	7.14	84	2683	0.035	ppbv # 4
39) 1,2-Dichloropropane	7.17	63	268821	3.551	ppbv # 24

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Instrument :

MSVOA_L

ClientSampleId :

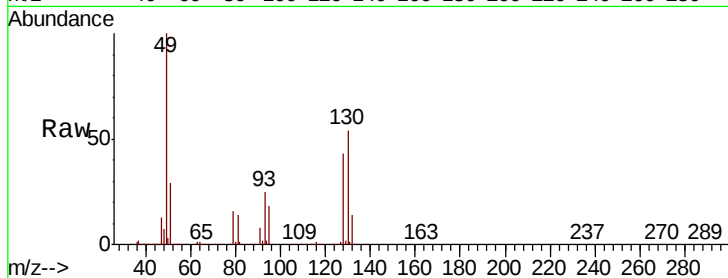
Tot Ion: 49 Resp: 1023504

Ion Ratio Lower Upper

49 100

128 45.4 22.1 66.5

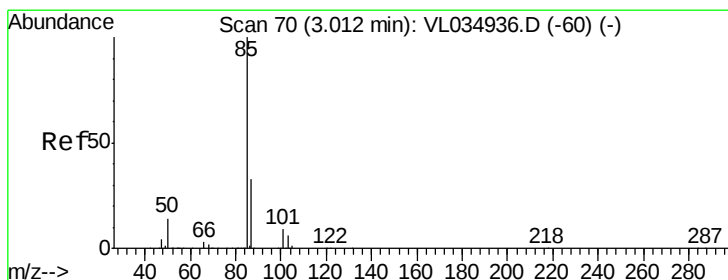
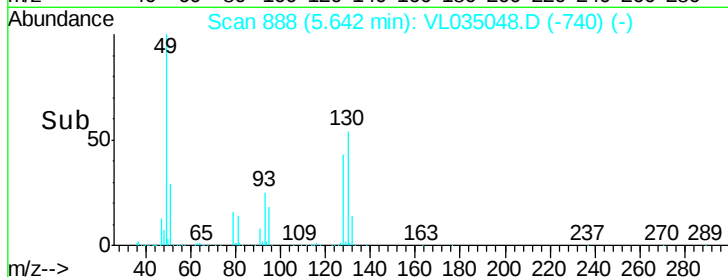
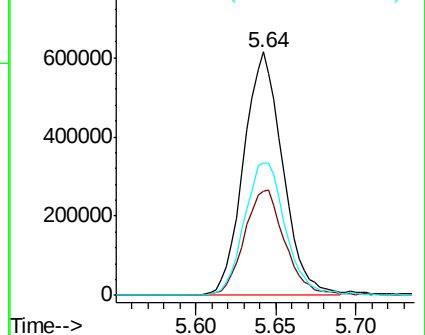
130 57.6 29.1 87.3



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: 0.227 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035048.D

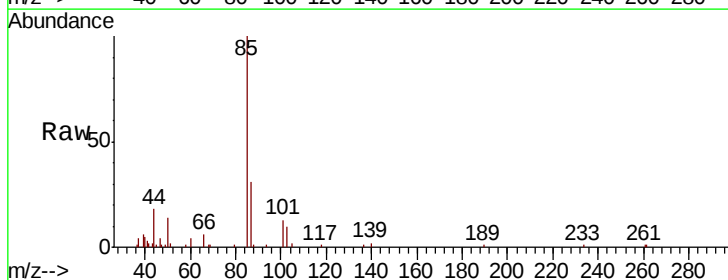
Acq: 19 May 2020 17:40

Tgt Ion: 85 Resp: 32930

Ion Ratio Lower Upper

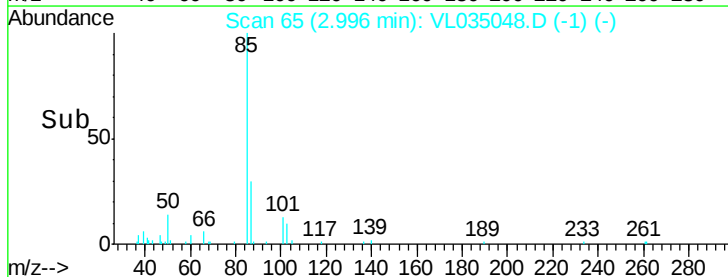
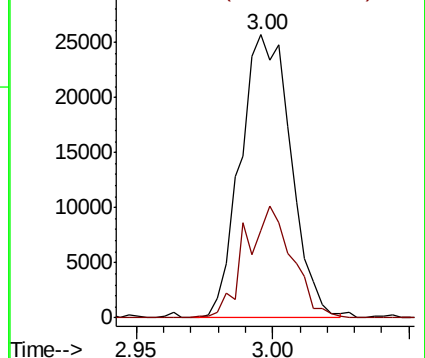
85 100

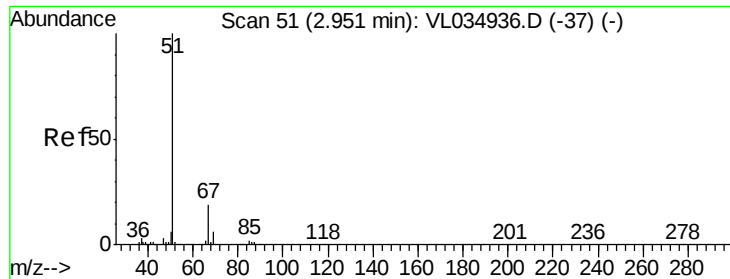
87 30.9 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.419 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.01 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Instrument :

MSVOA_L

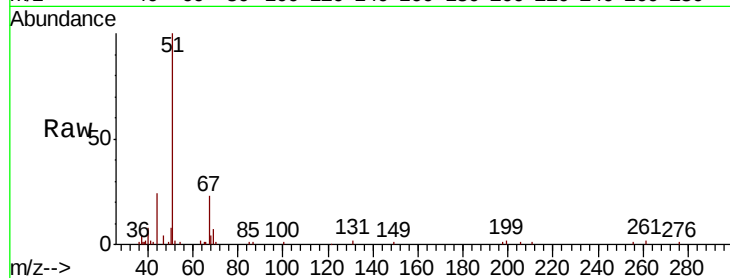
ClientSampleId :

Tot Ion: 51 Resp: 48929

Ion Ratio Lower Upper

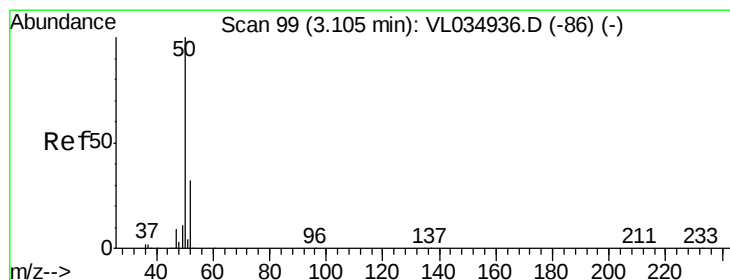
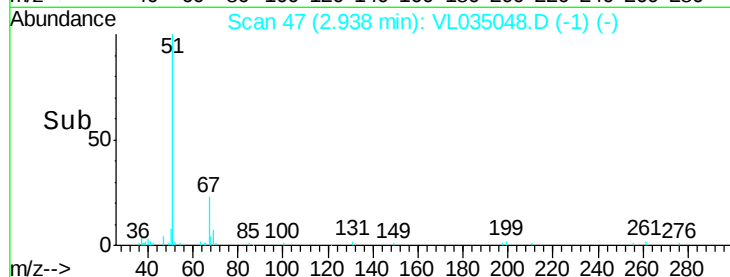
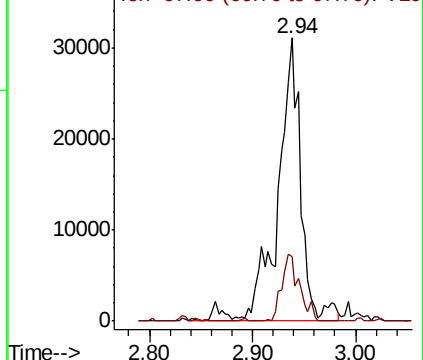
51 100

67 17.9 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.791 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL035048.D

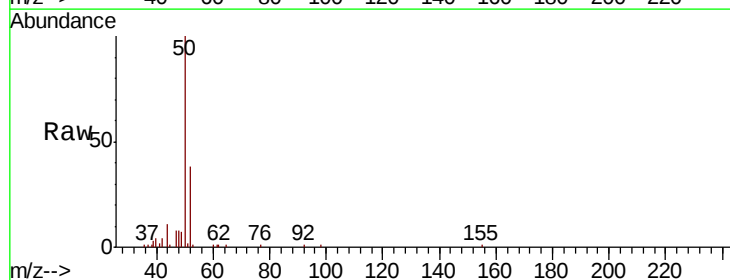
Acq: 19 May 2020 17:40

Tgt Ion: 50 Resp: 52987

Ion Ratio Lower Upper

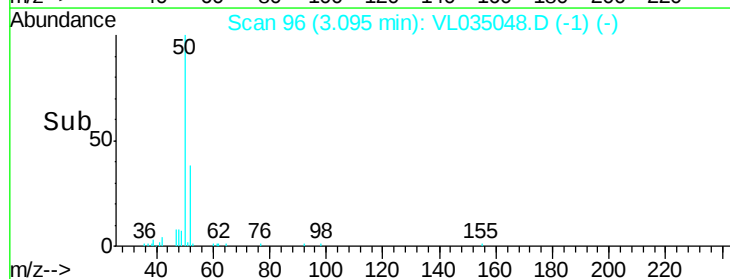
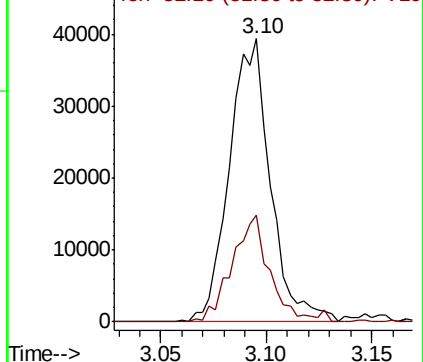
50 100

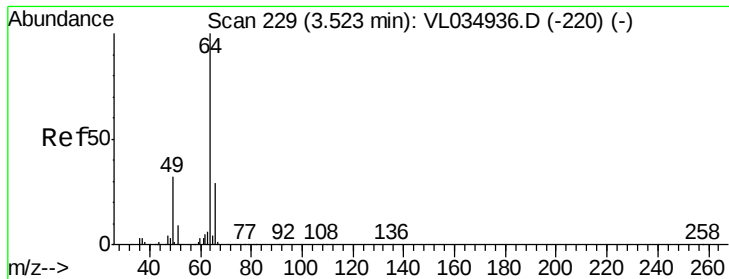
52 37.9 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.033 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.01 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Instrument :

MSVOA_L

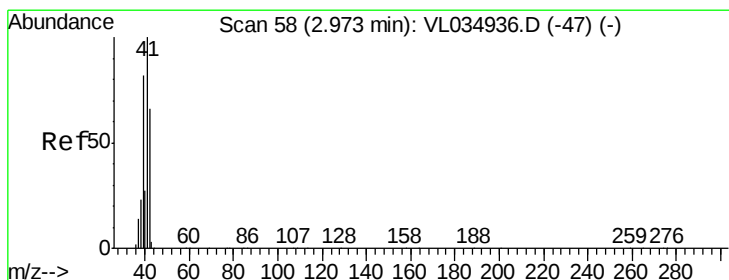
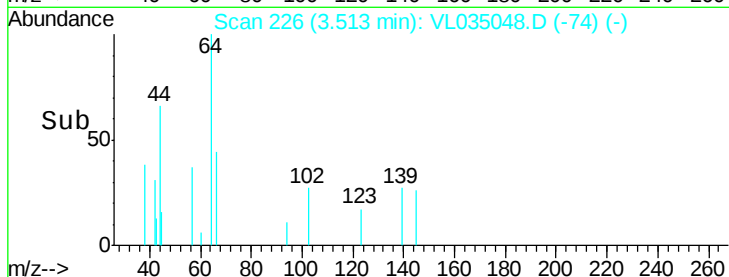
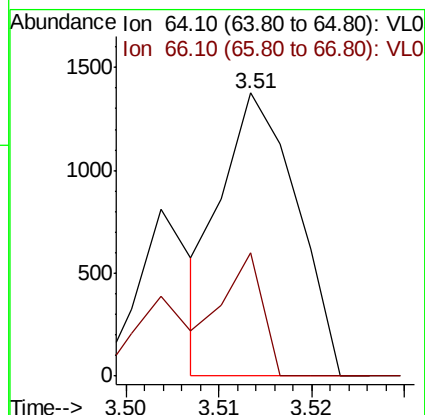
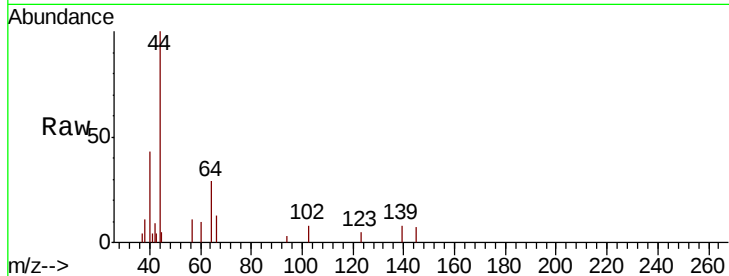
ClientSampleId :

Tot Ion: 64 Resp: 768

Ion Ratio Lower Upper

64 100

66 43.6 23.2 34.8#



#9

Propene

Concen: 0.729 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035048.D

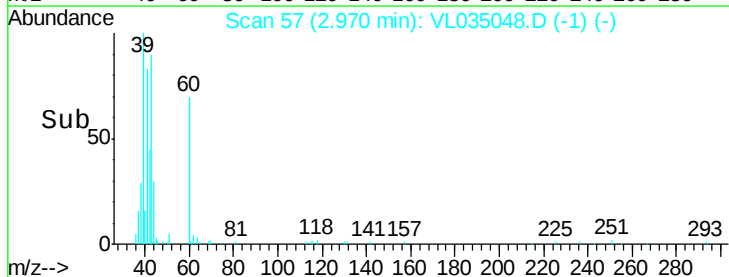
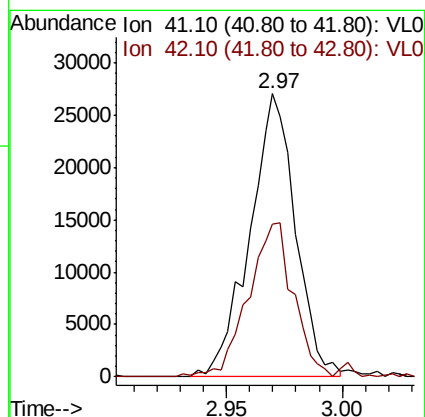
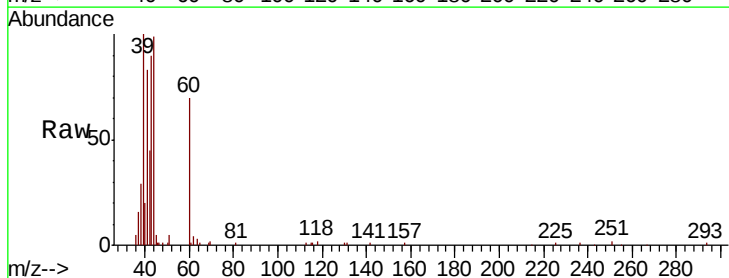
Acq: 19 May 2020 17:40

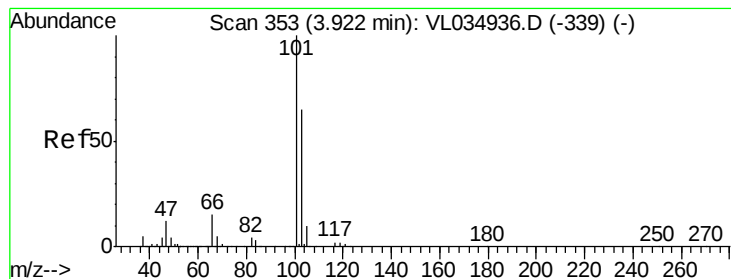
Tgt Ion: 41 Resp: 36947

Ion Ratio Lower Upper

41 100

42 55.4 54.5 81.7





#11

Trichlorofluoromethane

Concen: 0.206 ppbv

RT: 3.91 min Scan# 349

Delta R.T. -0.01 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Instrument :

MSVOA_L

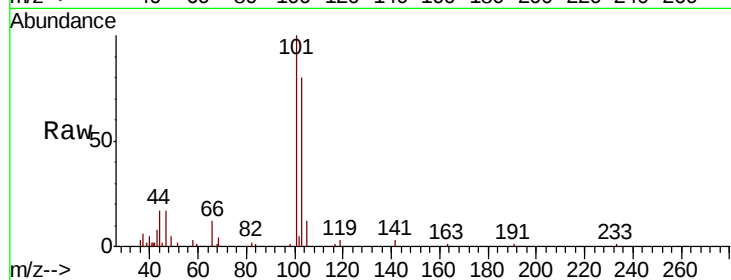
ClientSampleId :

Tot Ion:101 Resp: 30878

Ion Ratio Lower Upper

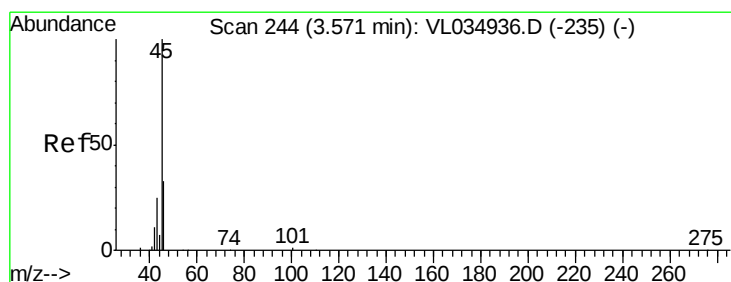
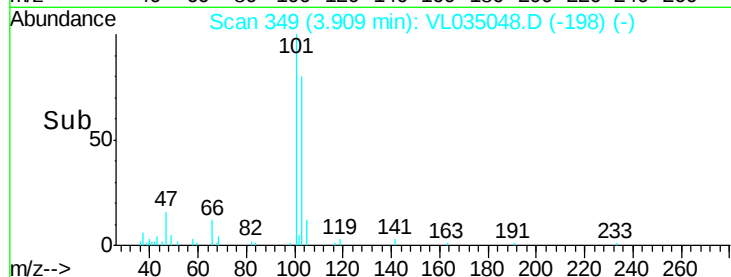
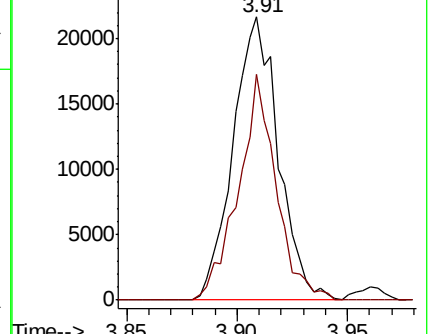
101 100

103 79.6 51.9 77.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 4.856 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL035048.D

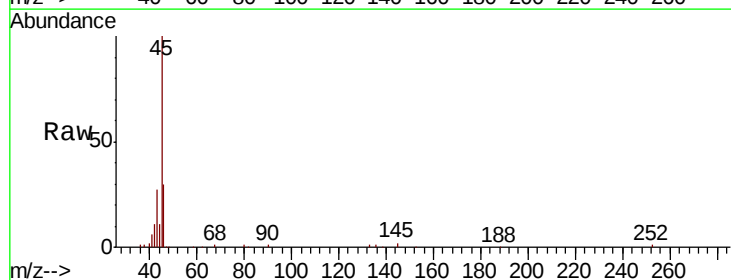
Acq: 19 May 2020 17:40

Tgt Ion: 45 Resp: 81256

Ion Ratio Lower Upper

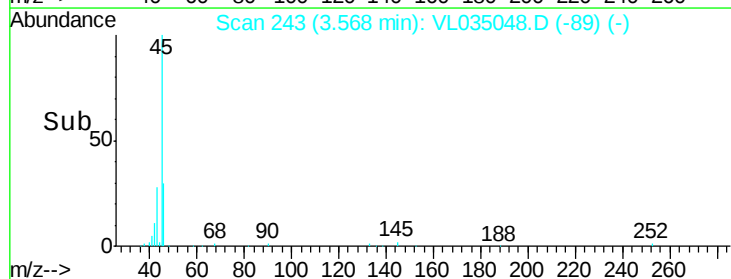
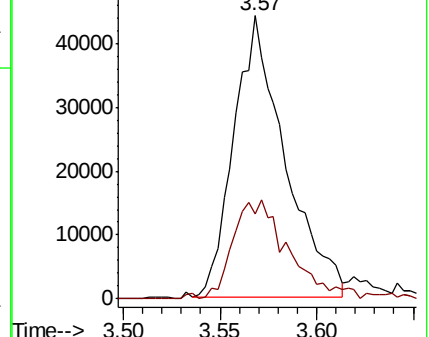
45 100

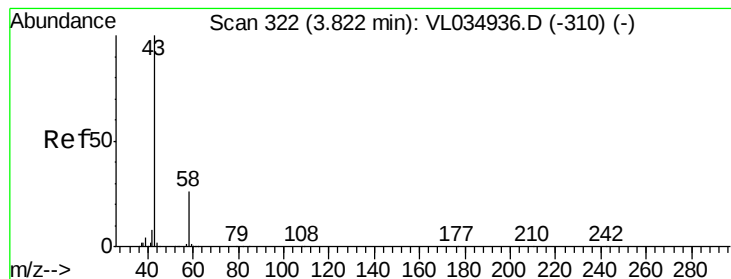
46 39.3 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.222 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.01 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Instrument :

MSVOA_L

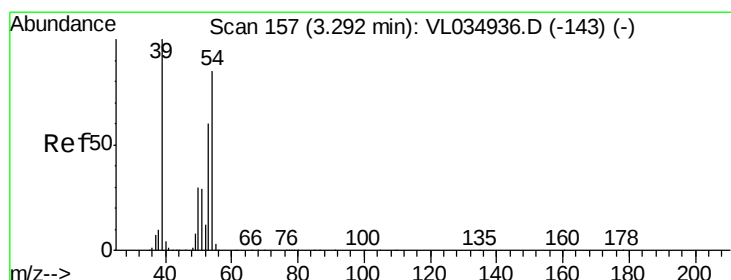
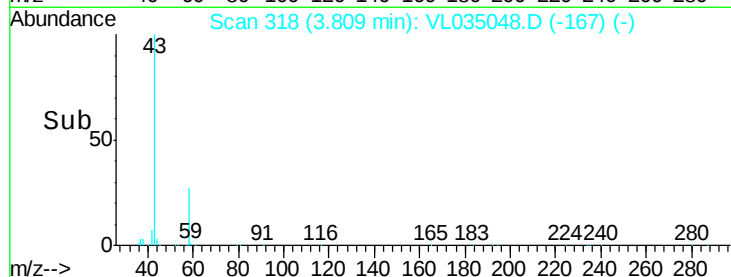
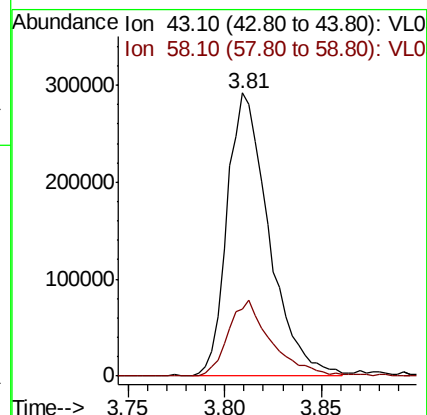
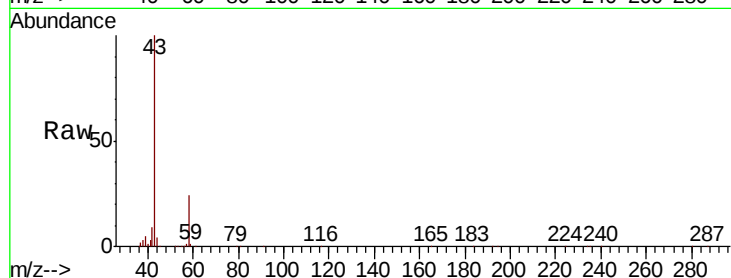
ClientSampleId :

Tot Ion: 43 Resp: 435979

Ion Ratio Lower Upper

43 100

58 28.1 21.7 32.5



#16

1,3-Butadiene

Concen: 0.117 ppbv

RT: 3.26 min Scan# 148

Delta R.T. -0.03 min

Lab File: VL035048.D

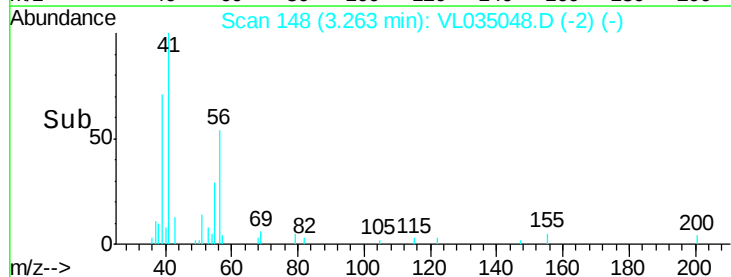
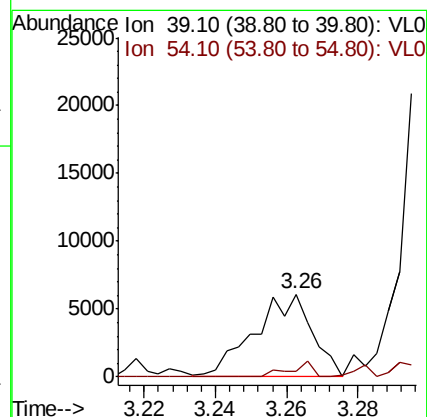
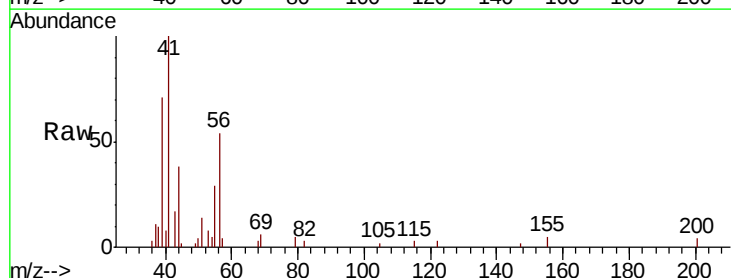
Acq: 19 May 2020 17:40

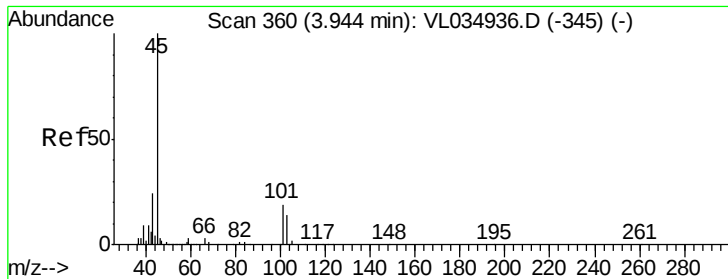
Tgt Ion: 39 Resp: 6842

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#





#19

Isopropyl Alcohol

Concen: 0.039 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Instrument :

MSVOA_L

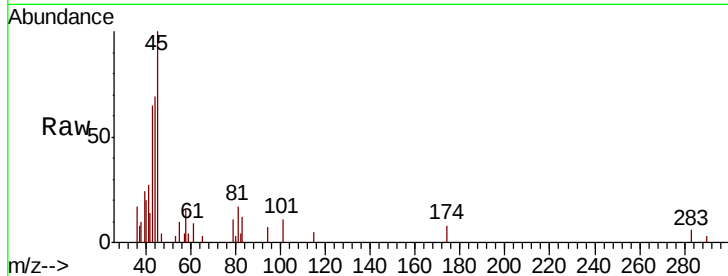
ClientSampleId :

Tot Ion: 45 Resp: 3508

Ion Ratio Lower Upper

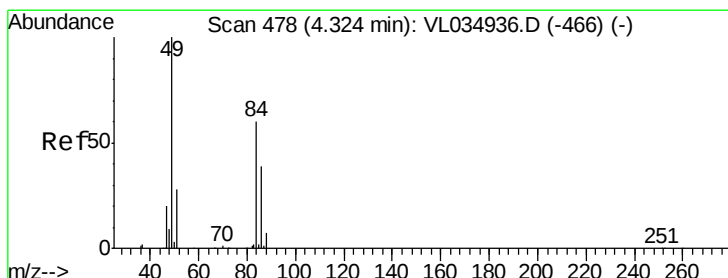
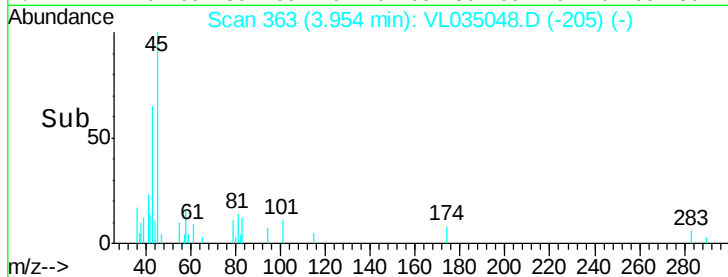
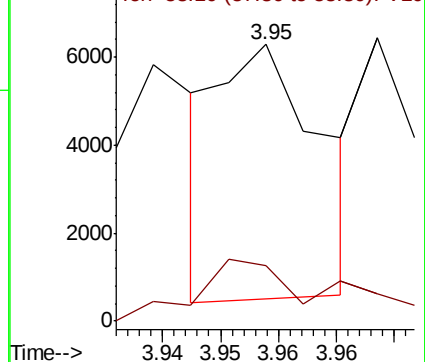
45 100

58 0.0 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.570 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.02 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Tgt Ion: 84 Resp: 25550

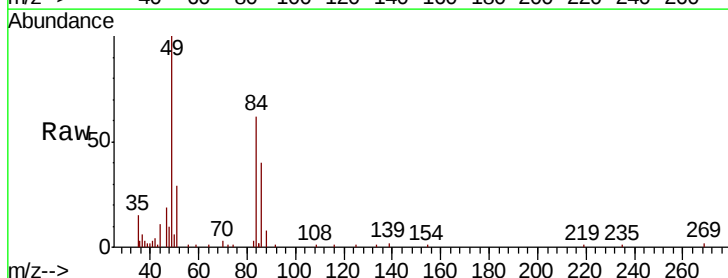
Ion Ratio Lower Upper

84 100

49 156.6 132.5 198.7

51 46.3 38.4 57.6

86 63.6 51.2 76.8

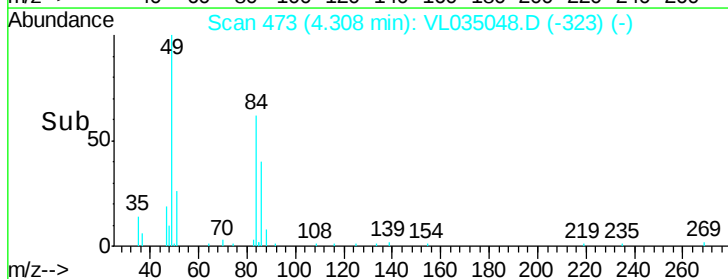
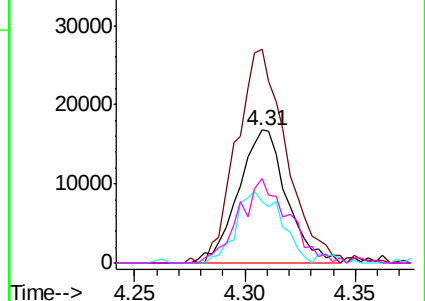


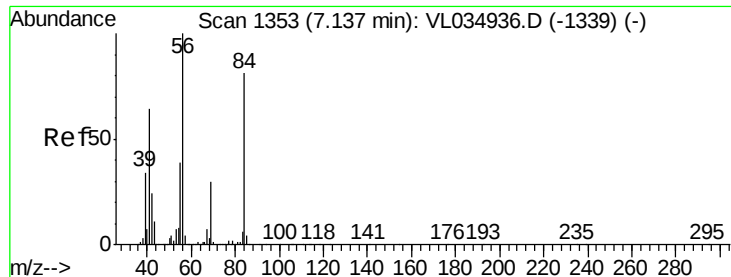
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

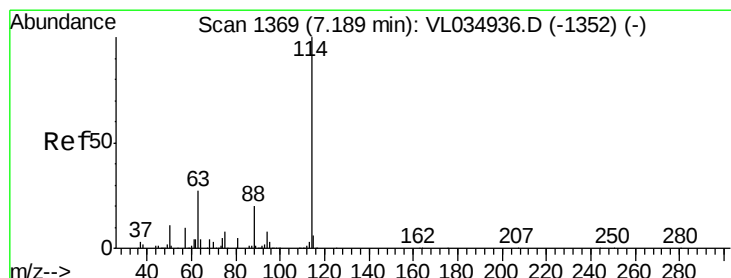
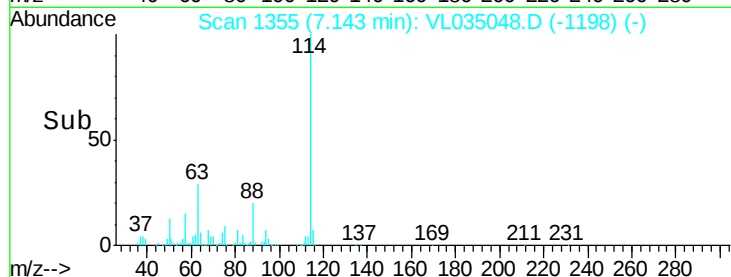
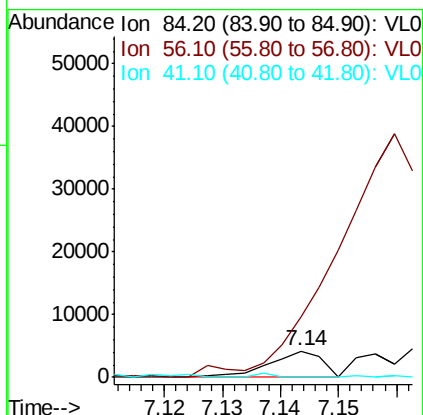
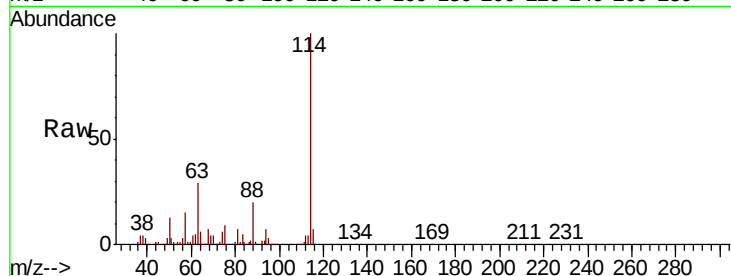




#30
Cyclohexane
Concen: 0.035 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.01 min
Lab File: VL035048.D
Acq: 19 May 2020 17:40

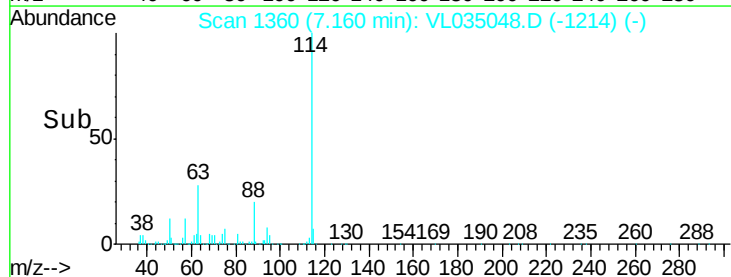
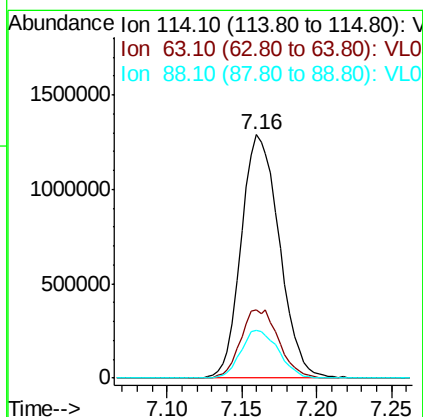
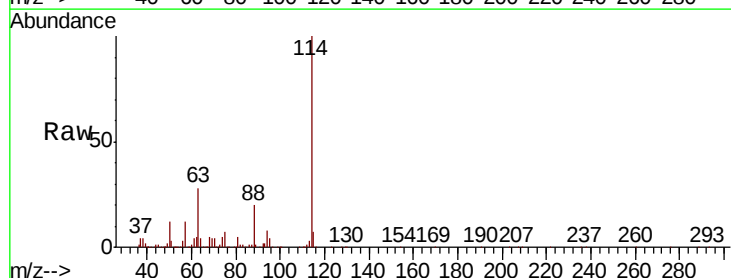
Instrument :
MSVOA_L
ClientSampleId :

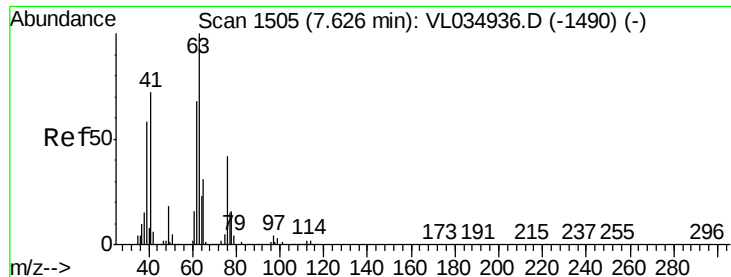
Tot Ion: 84 Resp: 2683
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.2#
41 25.9 66.7 100.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.03 min
Lab File: VL035048.D
Acq: 19 May 2020 17:40

Tgt Ion: 114 Resp: 2290337
Ion Ratio Lower Upper
114 100
63 28.3 22.2 33.4
88 19.4 15.5 23.3

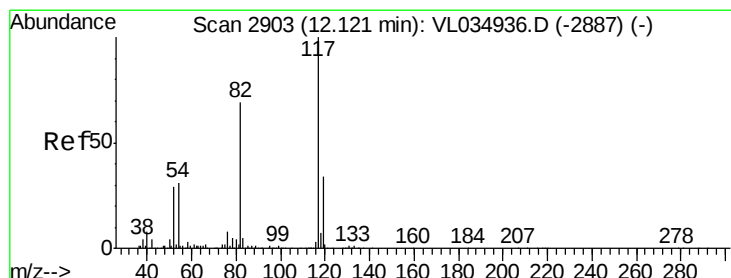
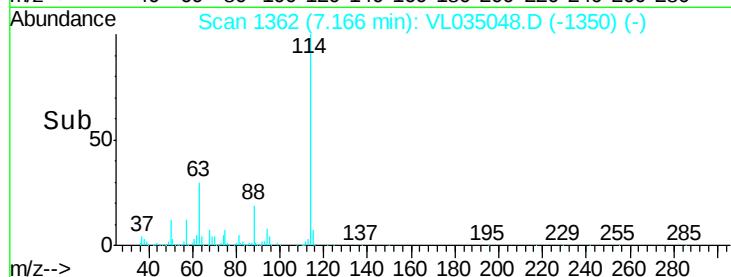
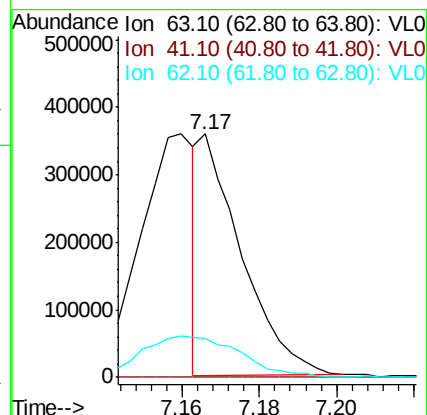
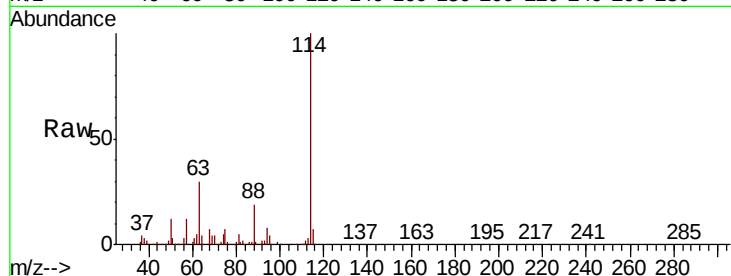




#39
 1,2-Dichloropropane
 Concen: 3.551 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.46 min
 Lab File: VL035048.D
 Acq: 19 May 2020 17:40

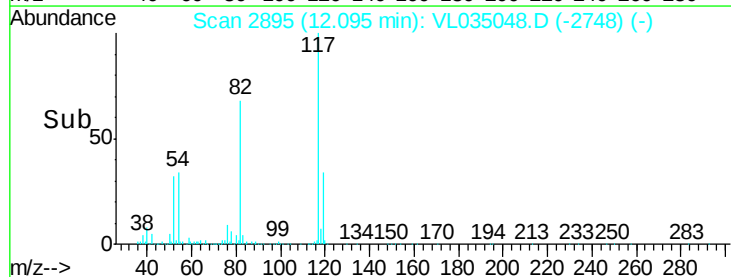
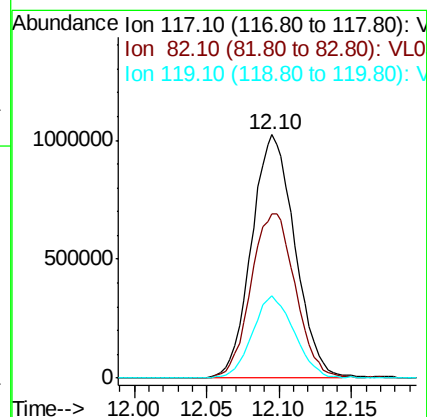
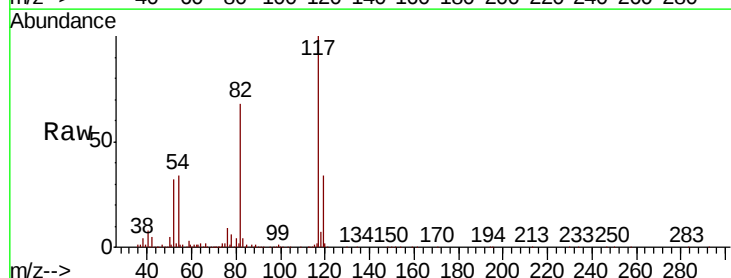
Instrument :
 MSVOA_L
 ClientSampleId :

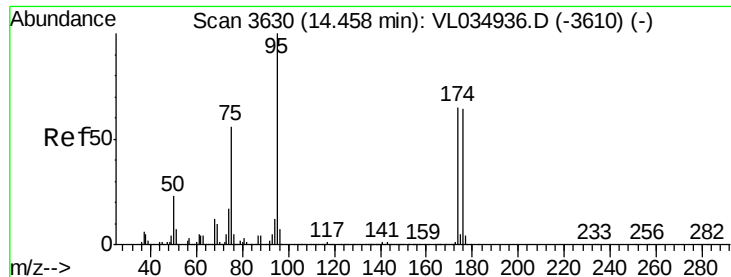
Tot Ion: 63 Resp: 268821
 Ion Ratio Lower Upper
 63 100
 41 0.0 57.8 86.8#
 62 15.8 54.2 81.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min Scan# 2895
 Delta R.T. -0.03 min
 Lab File: VL035048.D
 Acq: 19 May 2020 17:40

Tgt Ion: 117 Resp: 2123749
 Ion Ratio Lower Upper
 117 100
 82 69.8 53.1 79.7
 119 33.1 26.7 40.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.666 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.03 min

Lab File: VL035048.D

Acq: 19 May 2020 17:40

Instrument :

MSVOA_L

ClientSampleId :

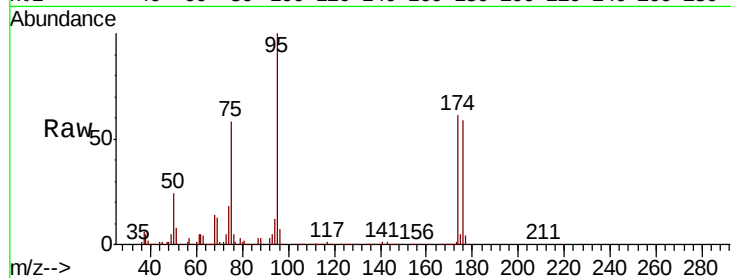
Tot Ion: 95 Resp: 1833480

Ion Ratio Lower Upper

95 100

174 64.4 51.5 77.3

175 4.4 3.8 5.8



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

