

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026677.D
 Acq On : 12 Jan 2016 16:35
 Operator : SY/AP
 Sample : H1075-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 13 03:02:08 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	684507	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.36	114	2109949	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.78	117	2842036	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.32	95	2367300	10.45	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

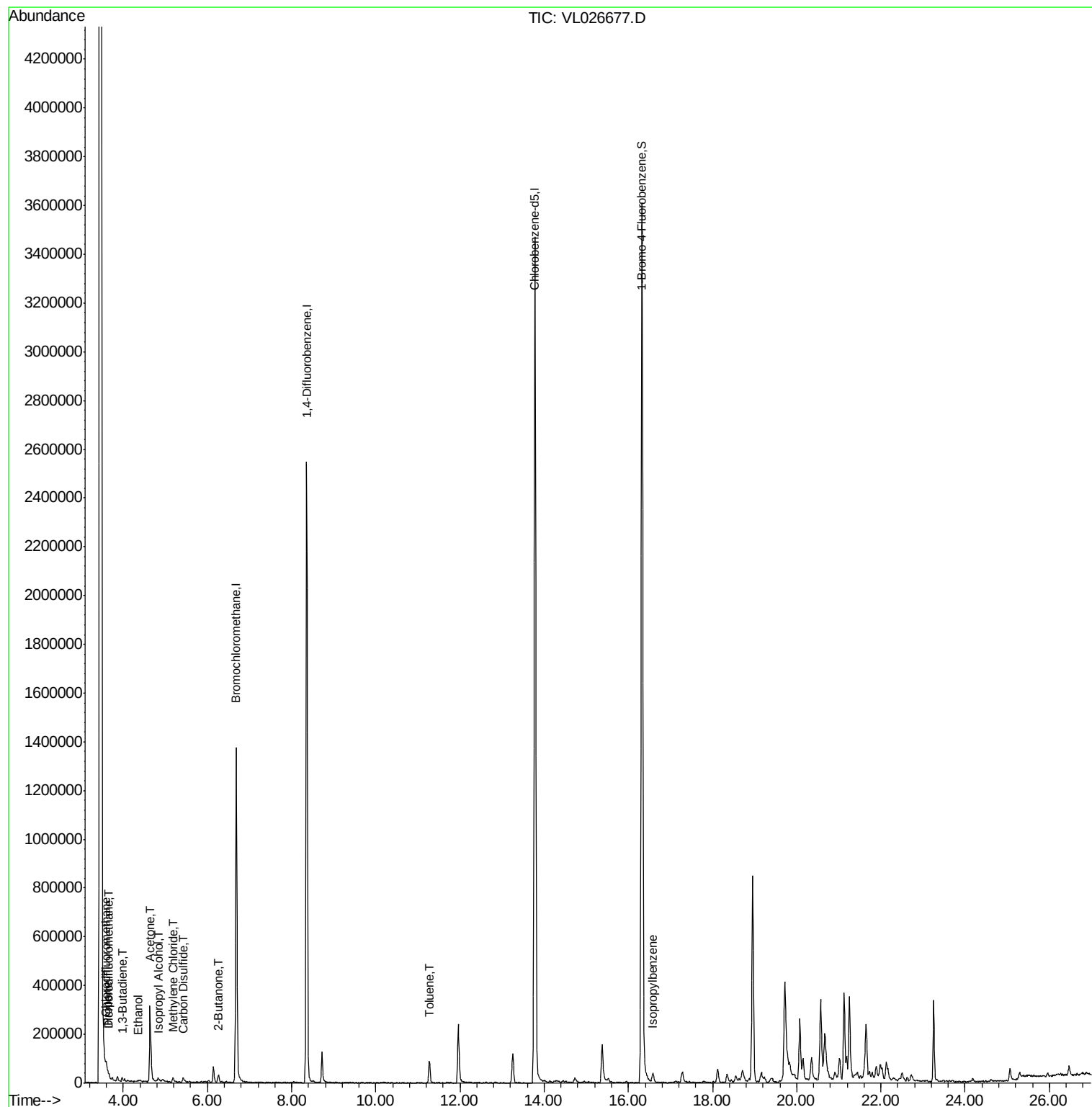
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.66	85	10276	0.06	ppbv	99
3) Chlorodifluoromethane	3.60	51	28203	0.31	ppbv	100
9) Propene	3.64	41	4347	0.13	ppbv	84
13) Ethanol	4.37	45	705	0.11	ppbv #	34
15) Acetone	4.64	43	466618	4.14	ppbv	98
16) 1,3-Butadiene	3.98	39	2612	0.06	ppbv #	8
19) Isopropyl Alcohol	4.82	45	20073	0.43	ppbv #	96
20) Methylene Chloride	5.18	84	8456	0.18	ppbv	94
27) Carbon Disulfide	5.42	76	28700	0.21	ppbv #	48
34) 2-Butanone	6.26	43	43668	0.39	ppbv	95
53) Toluene	11.27	91	87746	0.29	ppbv	97
62) Isopropylbenzene	16.58	105	36369	0.06	ppbv	97

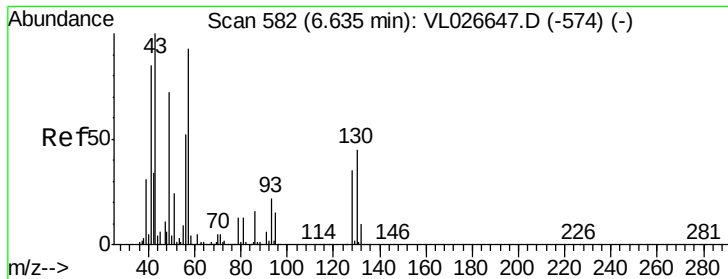
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 13 03:02:08 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VL026677.D

Acq: 12 Jan 2016 16:35

Instrument :
MSVOA_L
ClientSampleId :

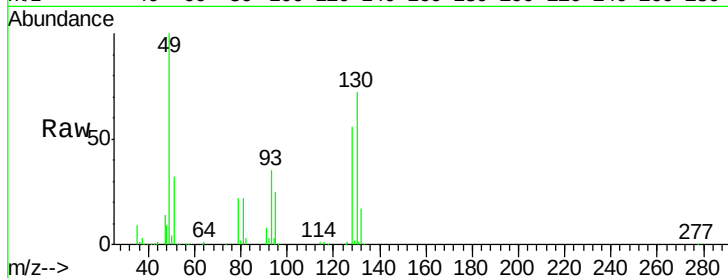
Tot Ion: 49 Resp: 684507

Ion Ratio Lower Upper

49 100

128 57.3 25.9 77.7

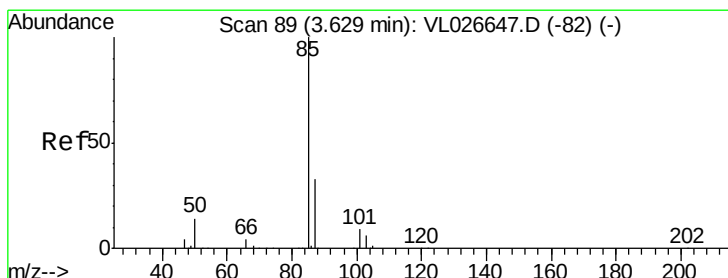
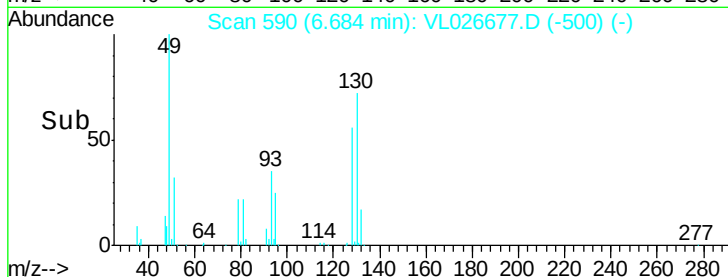
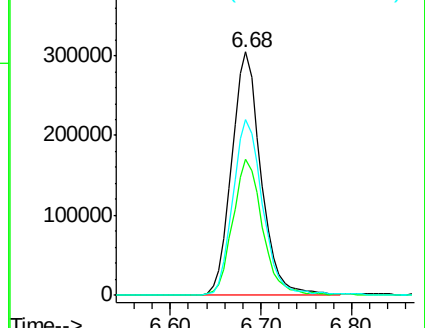
130 74.5 33.6 100.8



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: 0.06 ppbv

RT: 3.66 min Scan# 94

Delta R.T. 0.03 min

Lab File: VL026677.D

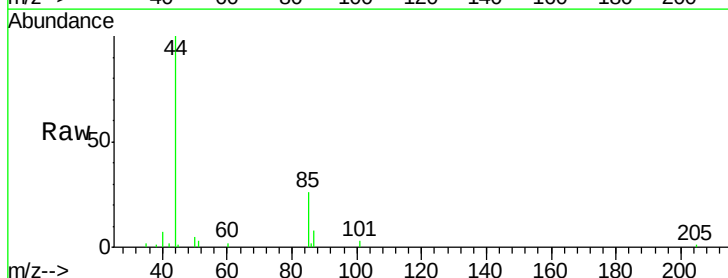
Acq: 12 Jan 2016 16:35

Tgt Ion: 85 Resp: 10276

Ion Ratio Lower Upper

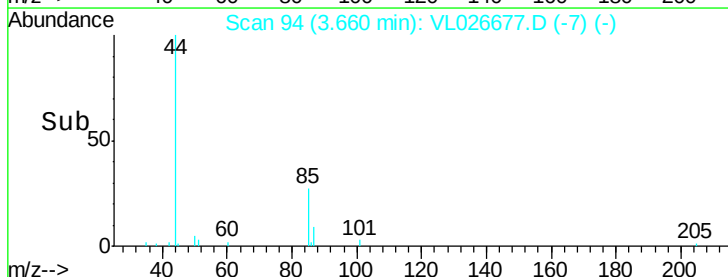
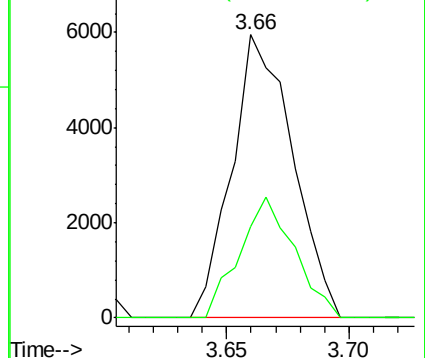
85 100

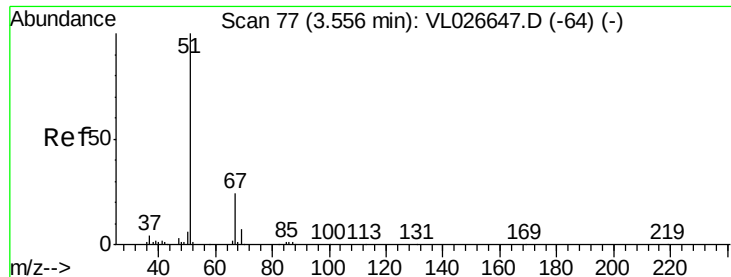
87 32.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.31 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.04 min

Lab File: VL026677.D

Acq: 12 Jan 2016 16:35

Instrument :

MSVOA_L

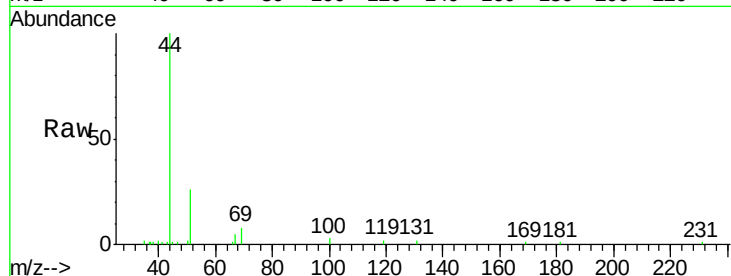
ClientSampleId :

Tot Ion: 51 Resp: 28203

Ion Ratio Lower Upper

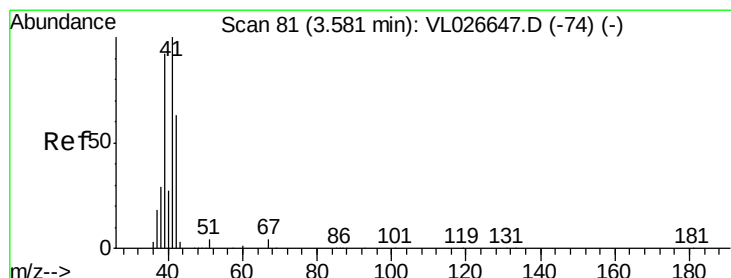
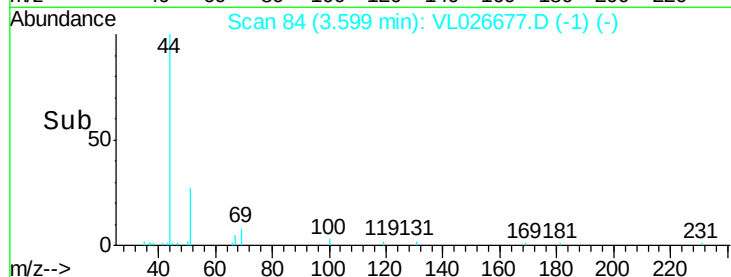
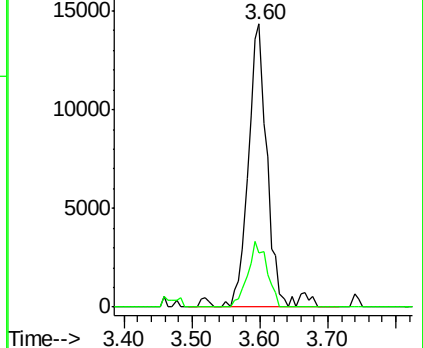
51 100

67 23.1 18.6 28.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.13 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.05 min

Lab File: VL026677.D

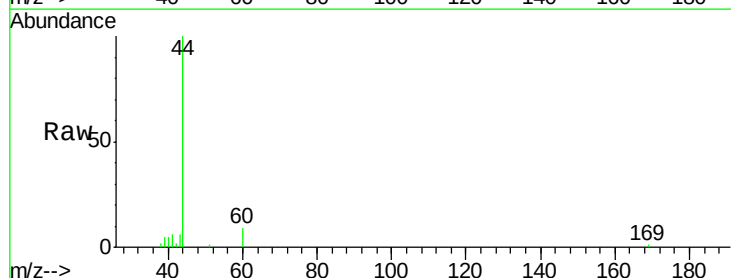
Acq: 12 Jan 2016 16:35

Tgt Ion: 41 Resp: 4347

Ion Ratio Lower Upper

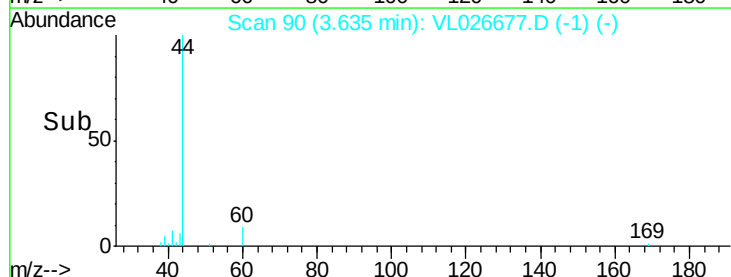
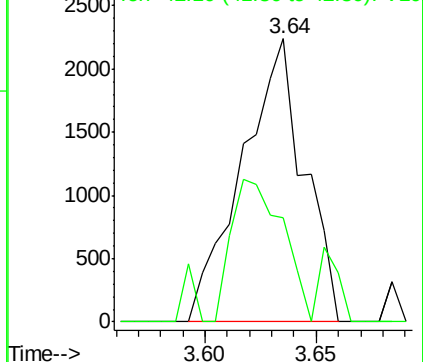
41 100

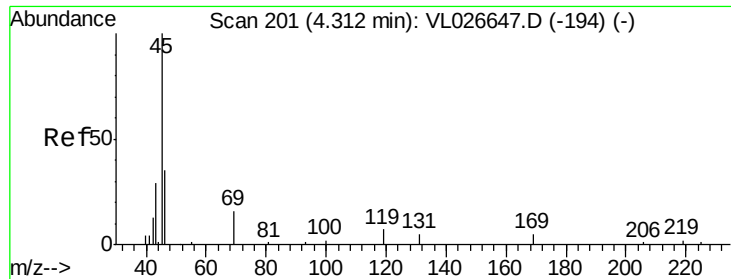
42 54.0 53.6 80.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.11 ppbv

RT: 4.37 min Scan# 210

Delta R.T. 0.05 min

Lab File: VL026677.D

Acq: 12 Jan 2016 16:35

Instrument :

MSVOA_L

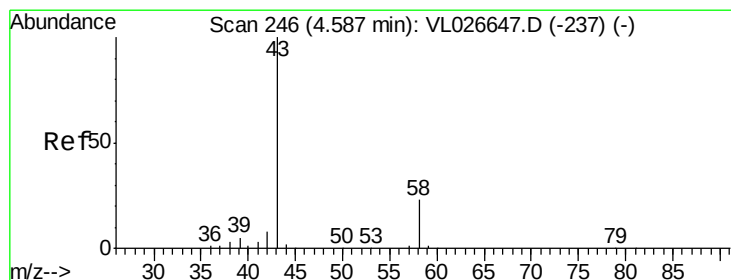
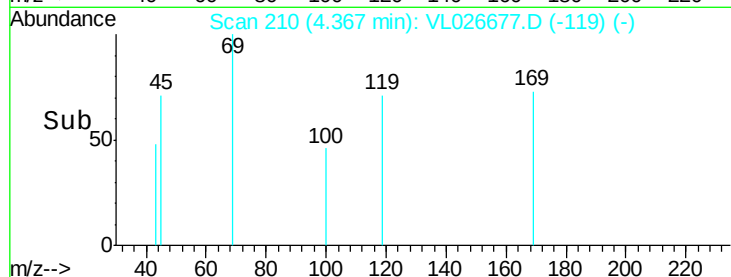
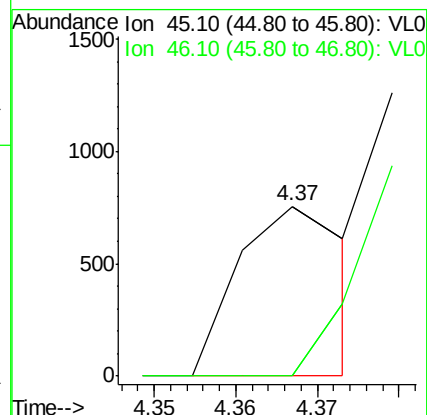
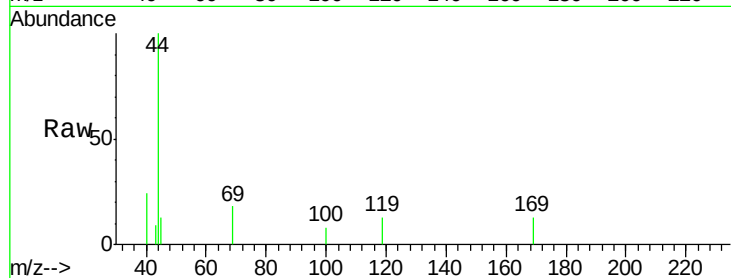
ClientSampled :

Tot Ion: 45 Resp: 705

Ion Ratio Lower Upper

45 100

46 0.0 16.7 66.7#



#15

Acetone

Concen: 4.14 ppbv

RT: 4.64 min Scan# 254

Delta R.T. 0.05 min

Lab File: VL026677.D

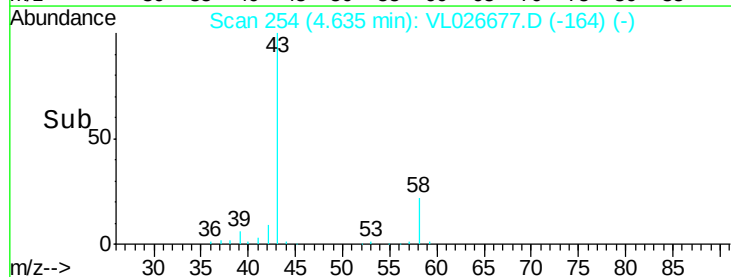
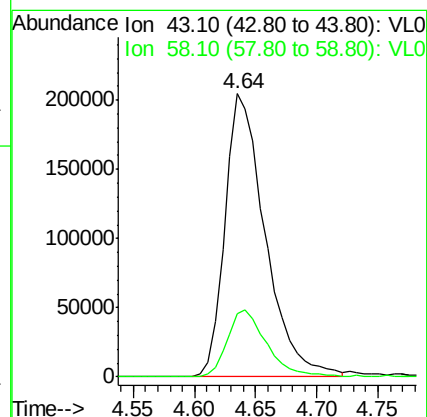
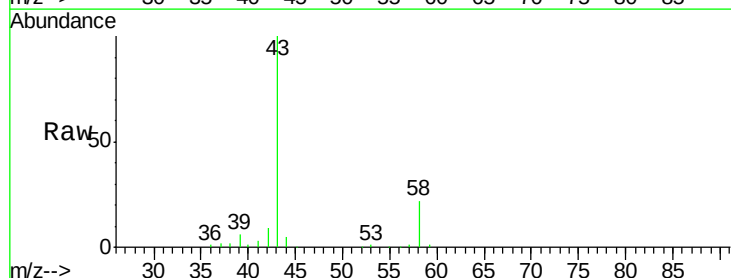
Acq: 12 Jan 2016 16:35

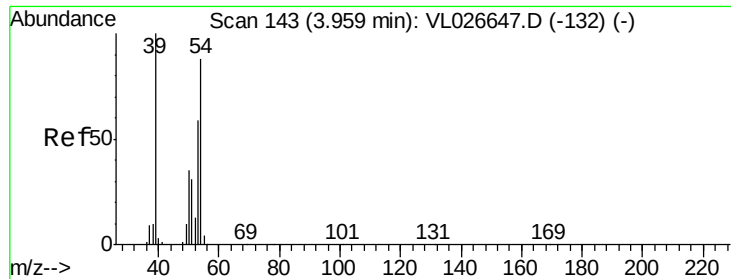
Tgt Ion: 43 Resp: 466618

Ion Ratio Lower Upper

43 100

58 23.2 19.2 28.8

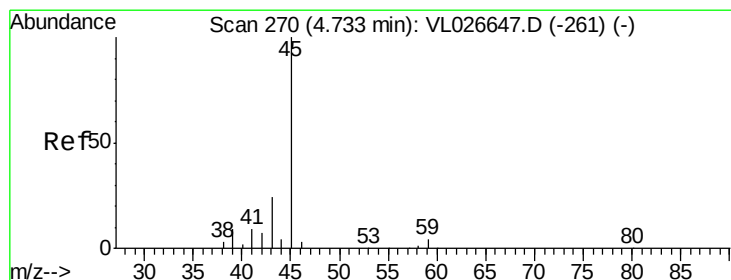
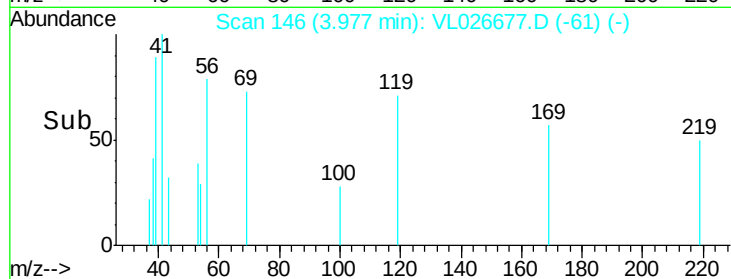
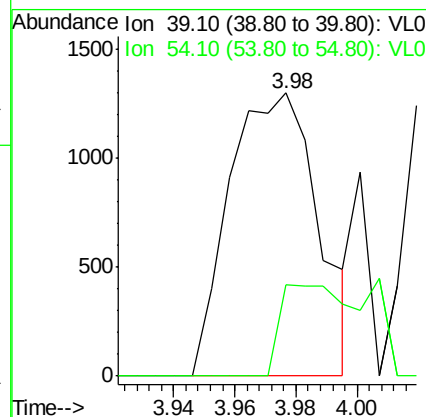
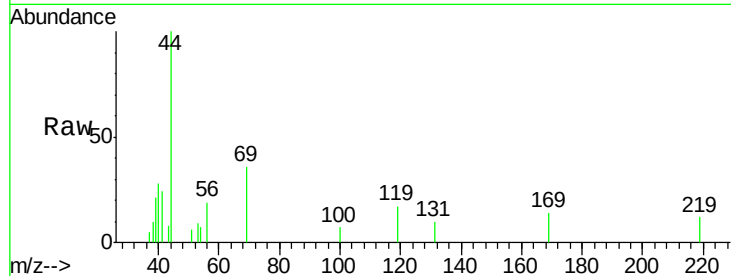




#16
 1,3-Butadiene
 Concen: 0.06 ppbv
 RT: 3.98 min Scan# 146
 Delta R.T. 0.02 min
 Lab File: VL026677.D
 Acq: 12 Jan 2016 16:35

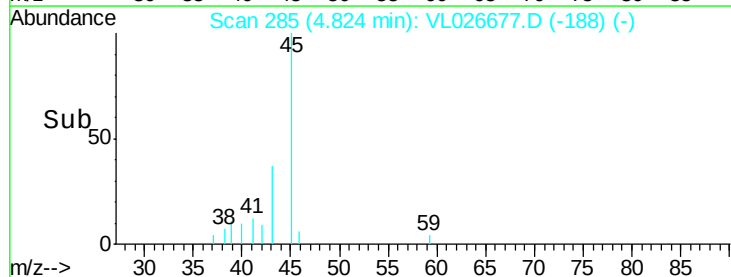
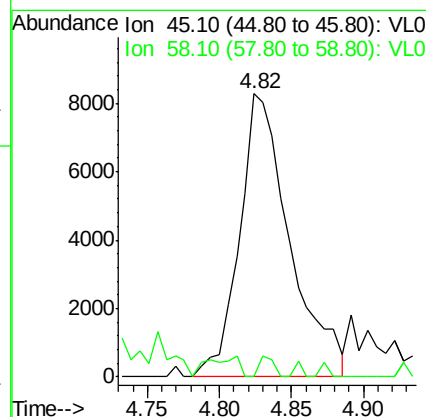
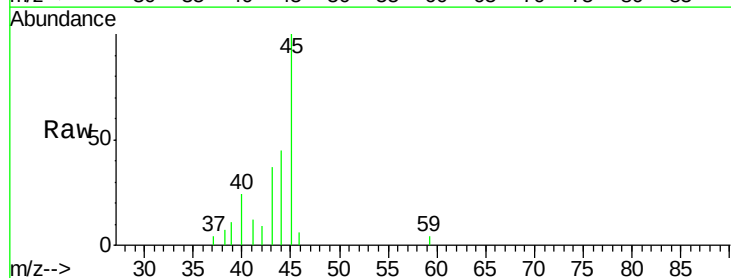
Instrument :
 MSVOA_L
 ClientSampled :

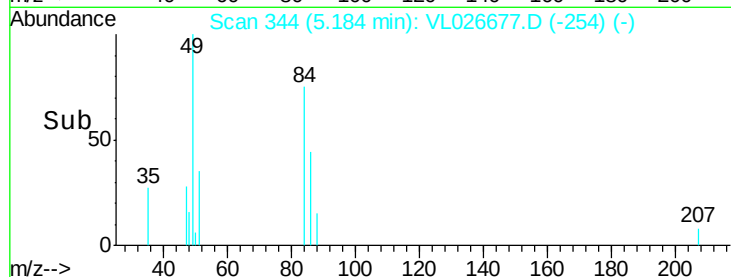
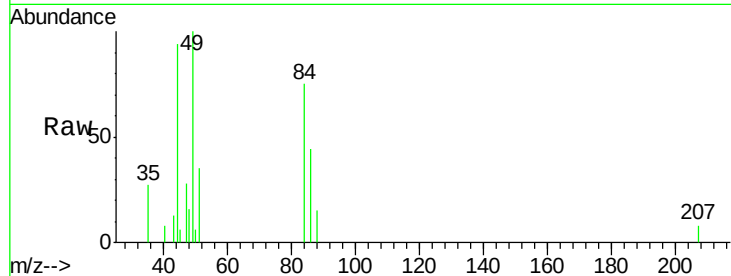
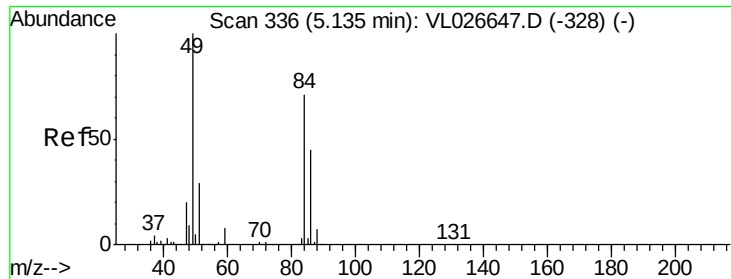
Tot Ion: 39 Resp: 2612
 Ion Ratio Lower Upper
 39 100
 54 0.0 66.6 100.0#



#19
 Isopropyl Alcohol
 Concen: 0.43 ppbv
 RT: 4.82 min Scan# 285
 Delta R.T. 0.09 min
 Lab File: VL026677.D
 Acq: 12 Jan 2016 16:35

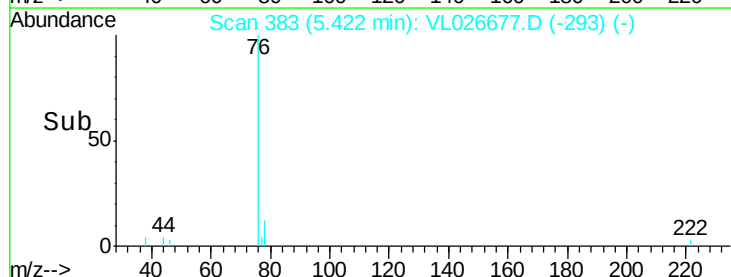
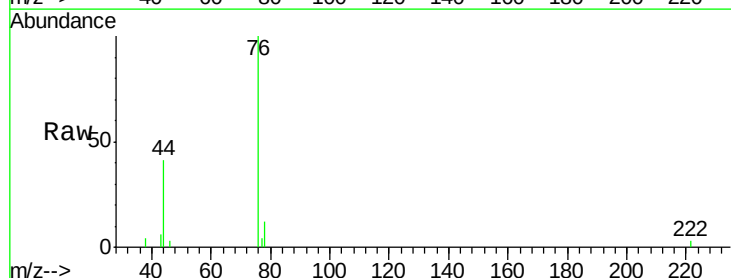
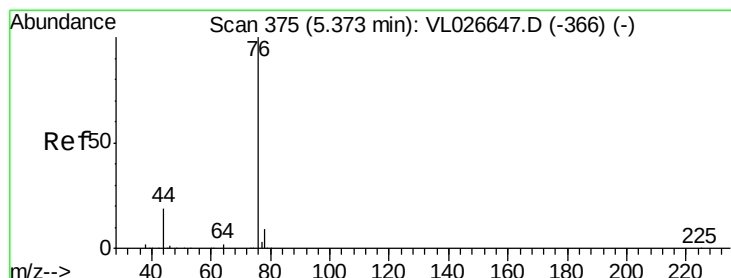
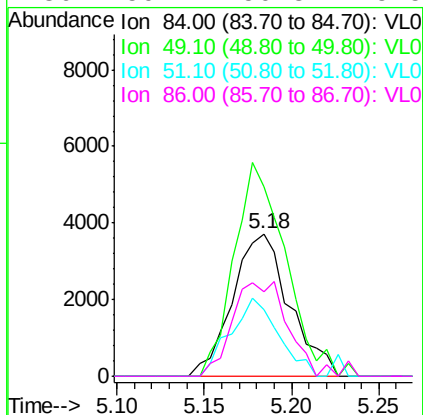
Tgt Ion: 45 Resp: 20073
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.3 1.9#





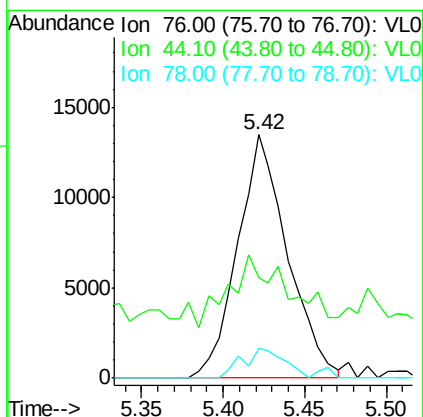
#20
Methylene Chloride
Concen: 0.18 ppbv
RT: 5.18 min Scan# 344
Delta R.T. 0.05 min
Lab File: VL026677.D
Acq: 12 Jan 2016 16:35

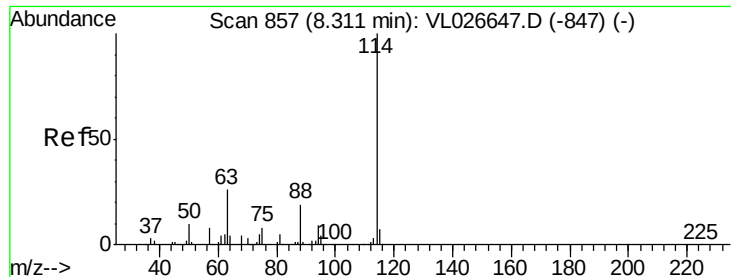
Tot Ion:	84	Resp:	8456
Ion	Ratio	Lower	Upper
84	100		
49	133.2	112.3	168.5
51	46.6	32.5	48.7
86	59.1	50.3	75.5



#27
Carbon Disulfide
Concen: 0.21 ppbv
RT: 5.42 min Scan# 383
Delta R.T. 0.05 min
Lab File: VL026677.D
Acq: 12 Jan 2016 16:35

Tgt Ion:	76	Resp:	28700
Ion	Ratio	Lower	Upper
76	100		
44	53.8	15.9	23.9#
78	11.5	7.6	11.4#

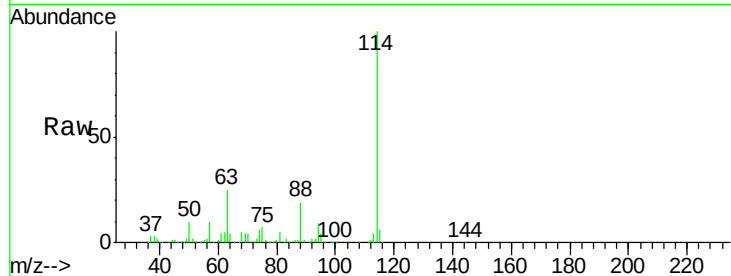




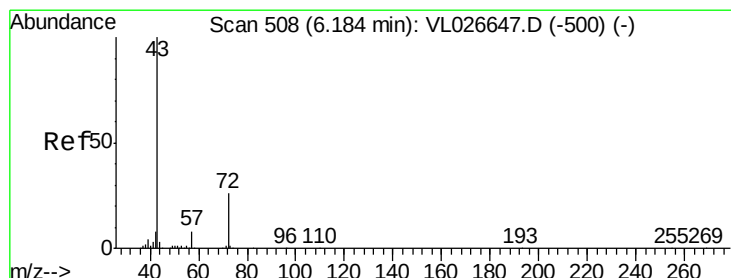
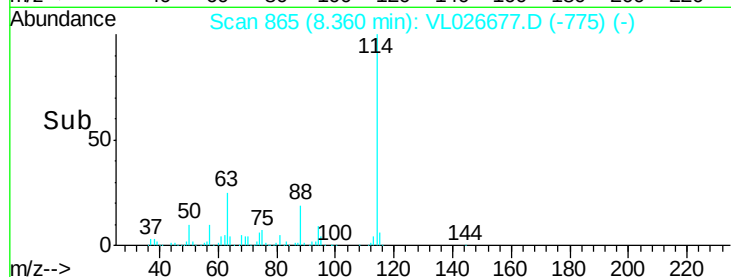
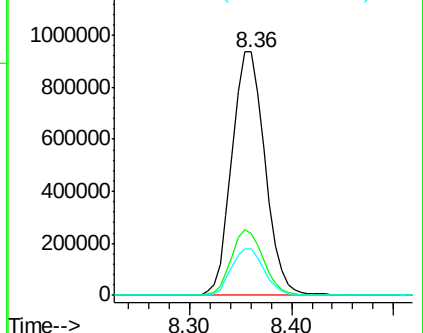
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.36 min Scan# 865
 Delta R.T. 0.05 min
 Lab File: VL026677.D
 Acq: 12 Jan 2016 16:35

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2109949
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.7 32.5
 88 19.3 15.2 22.8

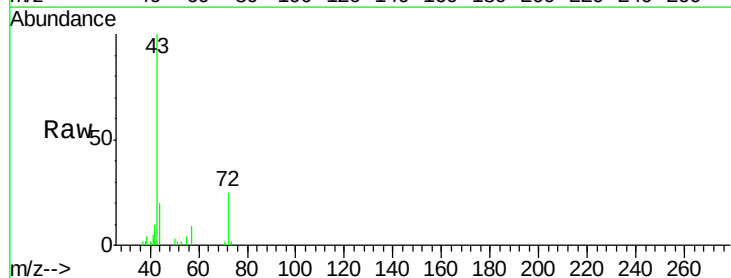


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

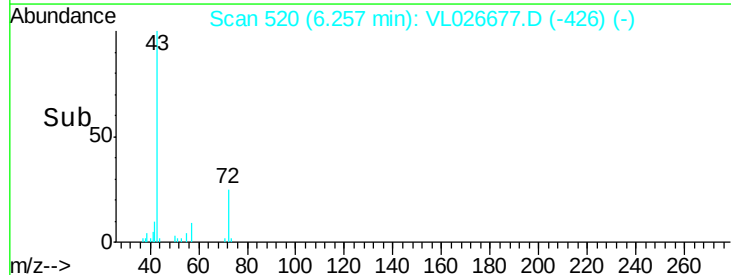
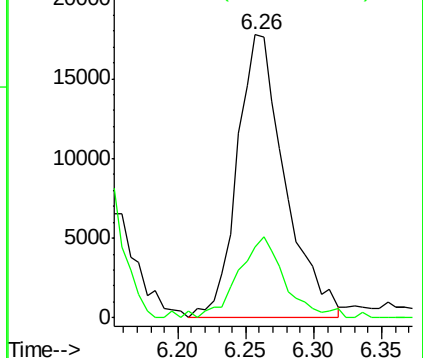


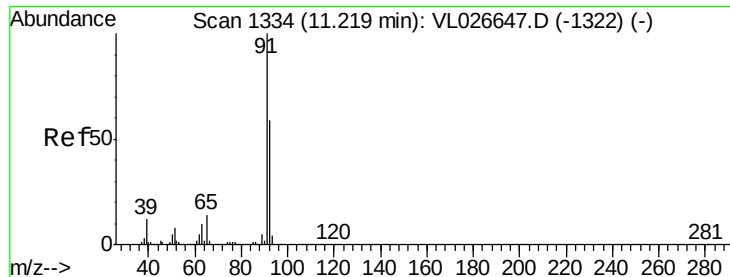
#34
 2-Butanone
 Concen: 0.39 ppbv
 RT: 6.26 min Scan# 520
 Delta R.T. 0.07 min
 Lab File: VL026677.D
 Acq: 12 Jan 2016 16:35

Tgt Ion: 43 Resp: 43668
 Ion Ratio Lower Upper
 43 100
 72 28.7 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#53

Toluene

Concen: 0.29 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.05 min

Lab File: VL026677.D

Acq: 12 Jan 2016 16:35

Instrument :

MSVOA_L

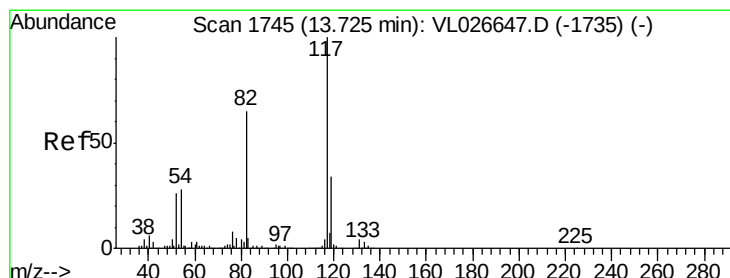
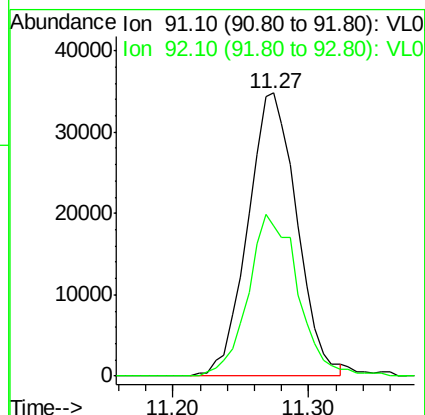
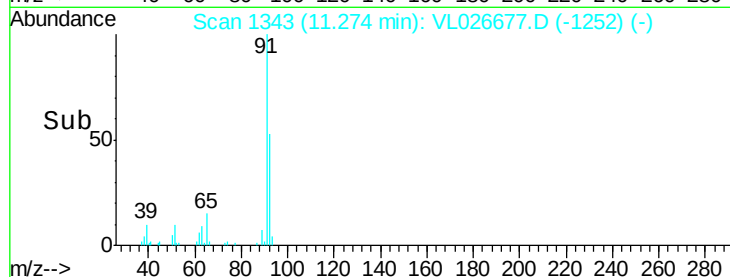
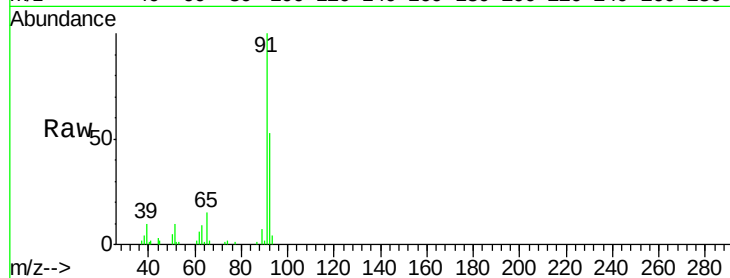
ClientSampleId :

Tot Ion: 91 Resp: 87746

Ion Ratio Lower Upper

91 100

92 58.2 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.78 min Scan# 1754

Delta R.T. 0.05 min

Lab File: VL026677.D

Acq: 12 Jan 2016 16:35

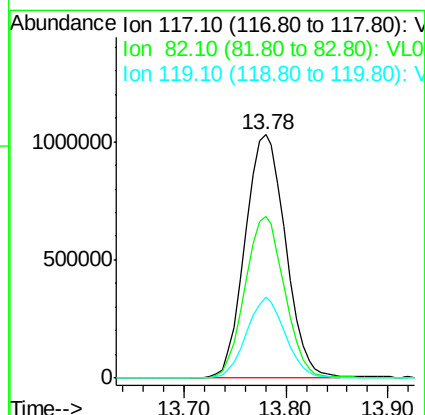
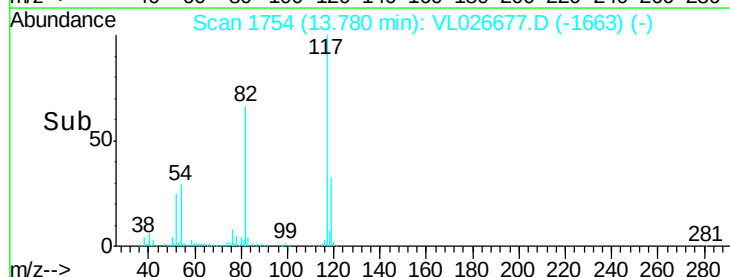
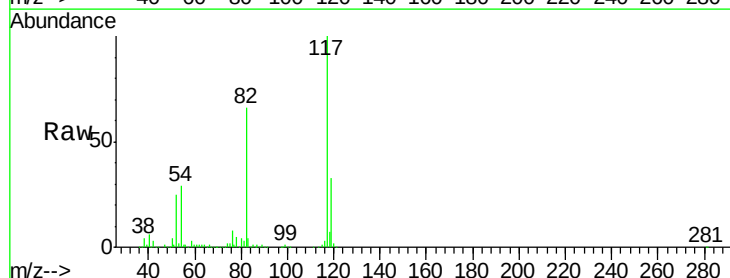
Tgt Ion: 117 Resp: 2842036

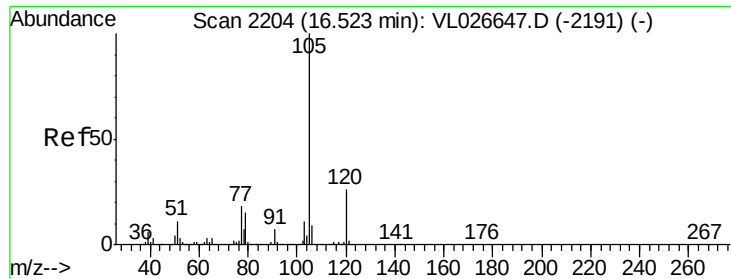
Ion Ratio Lower Upper

117 100

82 65.8 49.7 74.5

119 32.0 43.8 65.8#





#62

Isopropylbenzene

Concen: 0.06 ppbv

RT: 16.58 min Scan# 2214

Delta R.T. 0.06 min

Lab File: VL026677.D

Acq: 12 Jan 2016 16:35

Instrument :

MSVOA_L

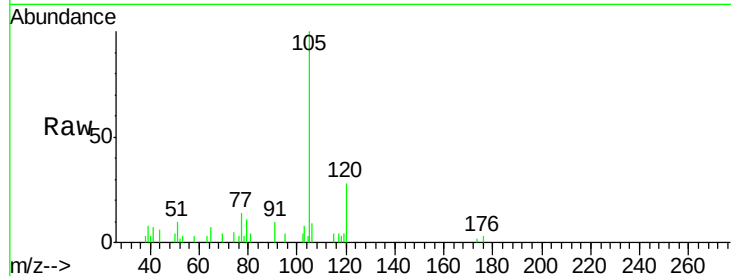
ClientSampleId :

Tot Ion:105 Resp: 36369

Ion Ratio Lower Upper

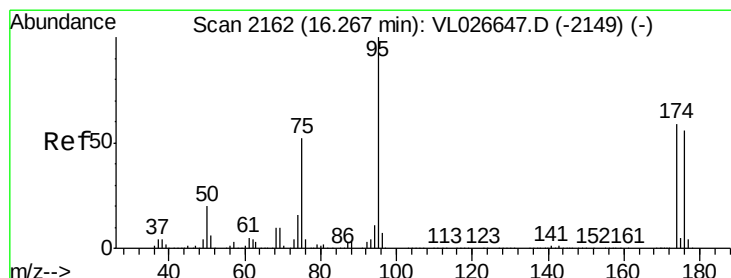
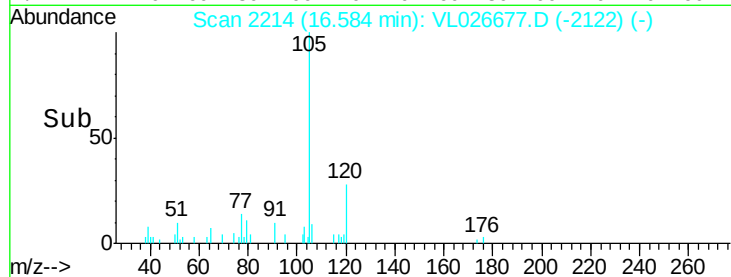
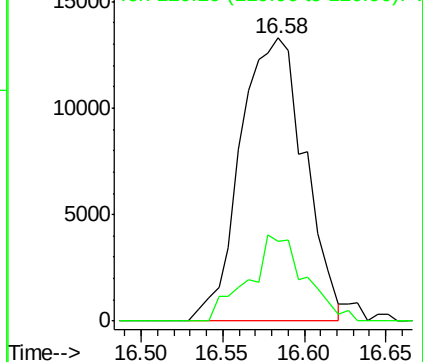
105 100

120 26.7 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.45 ppbv

RT: 16.32 min Scan# 2171

Delta R.T. 0.05 min

Lab File: VL026677.D

Acq: 12 Jan 2016 16:35

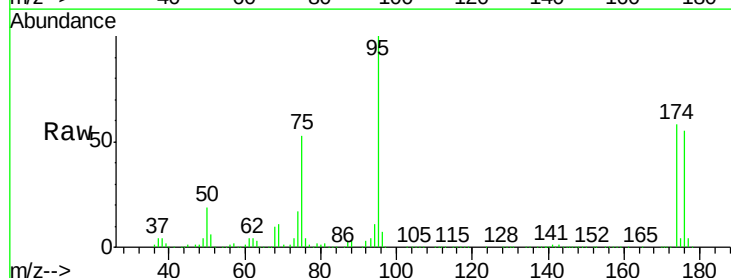
Tgt Ion: 95 Resp: 2367300

Ion Ratio Lower Upper

95 100

174 61.5 47.8 71.8

175 4.4 3.6 5.4



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

