

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025771.D
 Acq On : 28 Jul 2015 3:00
 Operator : SY/MD
 Sample : G3040-09DL 1200X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-EFFLUENT-072315DL

Quant Time: Jul 28 04:13:44 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	740557	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1961233	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	2342567	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	2033070	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

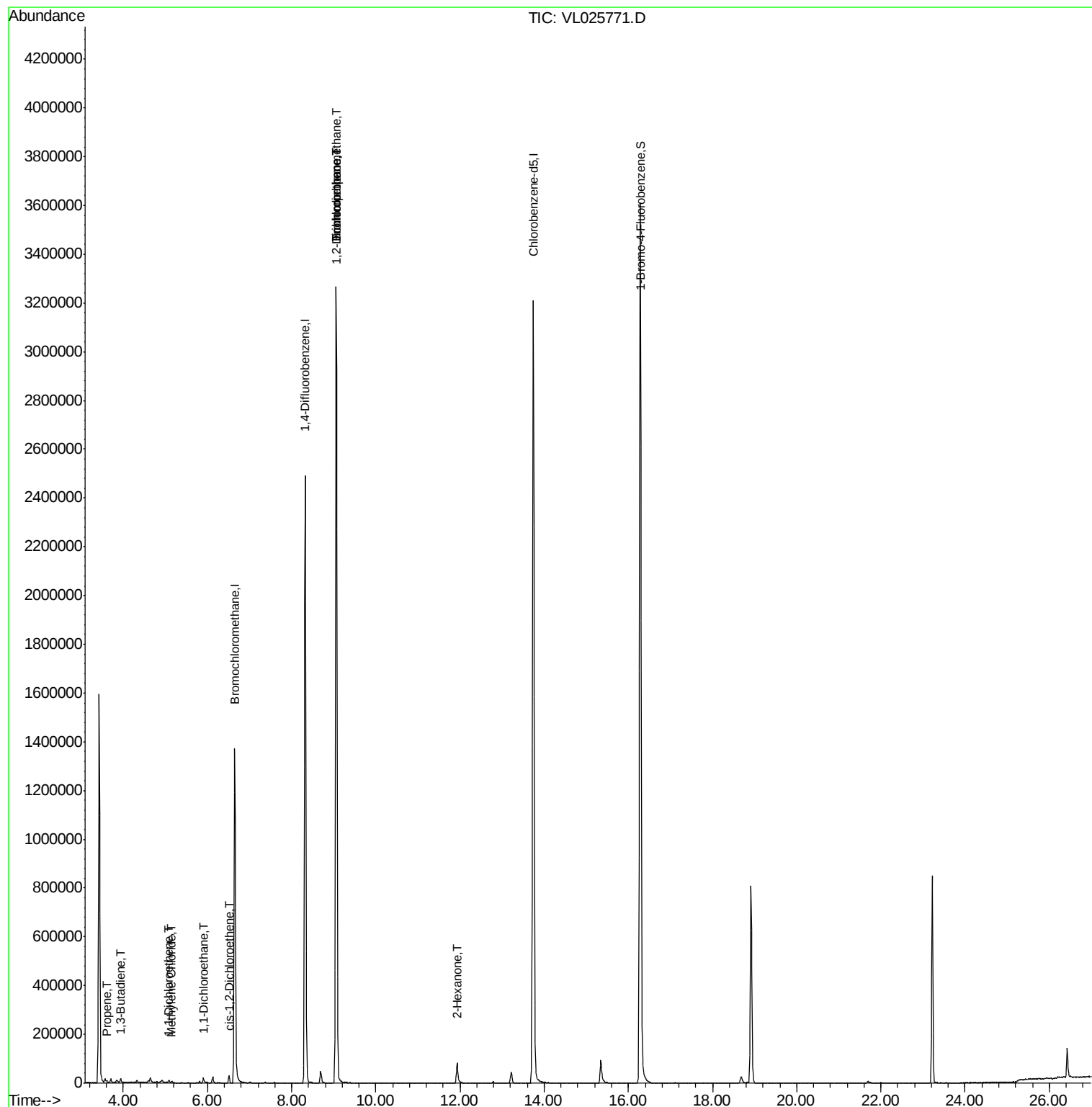
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.61	41	1674	0.05	ppbv	96
16) 1,3-Butadiene	3.94	39	2495	0.05	ppbv #	12
18) 1,1-Dichloroethene	5.09	96	3637	0.07	ppbv #	54
20) Methylene Chloride	5.15	84	3395	0.06	ppbv #	67
24) 1,1-Dichloroethane	5.90	63	17320	0.13	ppbv	98
31) cis-1,2-Dichloroethene	6.51	61	21262	0.23	ppbv	90
38) Trichloroethene	9.06	130	1152688	13.20	ppbv	99
39) 1,2-Dichloropropane	9.05	63	4252	0.06	ppbv #	1
42) Bromodichloromethane	9.06	83	18097	0.09	ppbv #	88
51) 2-Hexanone	11.93	43	20731	0.14	ppbv #	47

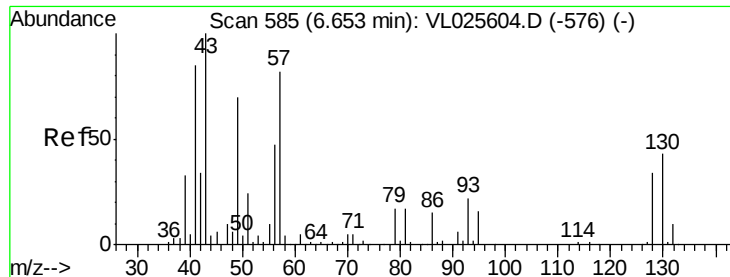
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 28 04:13:44 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL025771.D

Acq: 28 Jul 2015 3:00

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-072315DL

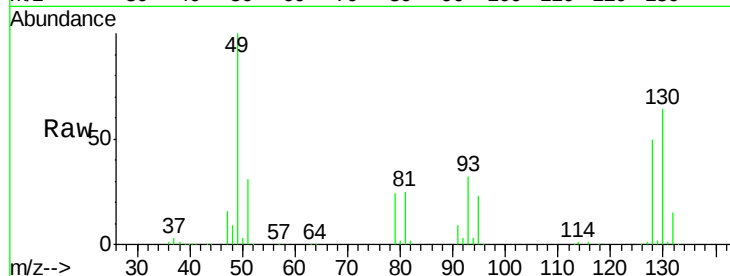
Tot Ion: 49 Resp: 740557

Ion Ratio Lower Upper

49 100

128 51.0 25.4 76.0

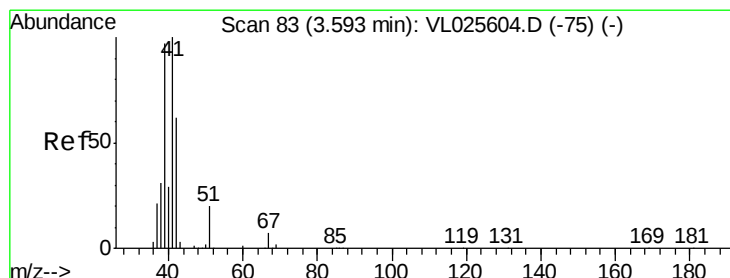
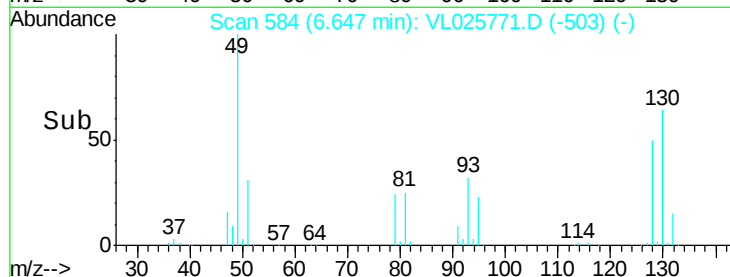
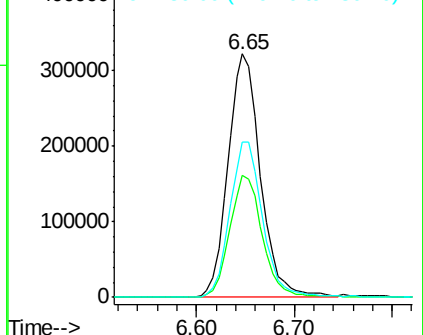
130 65.5 31.9 95.9



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



#9

Propene

Concen: 0.05 ppbv

RT: 3.61 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL025771.D

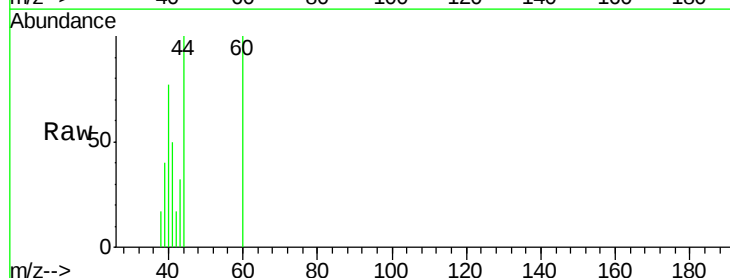
Acq: 28 Jul 2015 3:00

Tgt Ion: 41 Resp: 1674

Ion Ratio Lower Upper

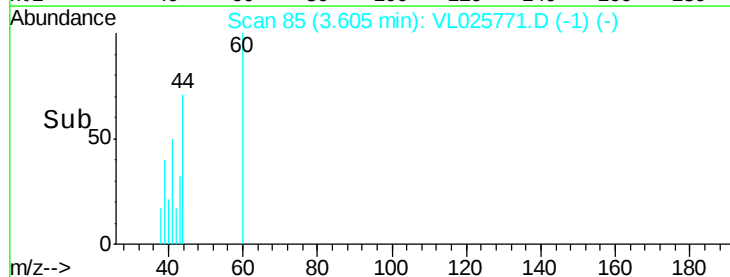
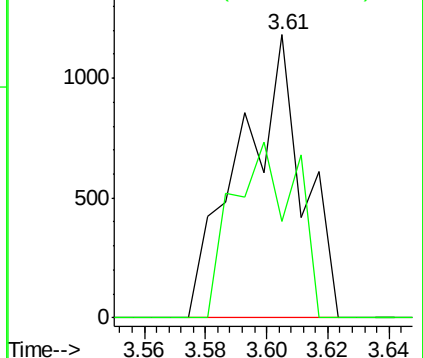
41 100

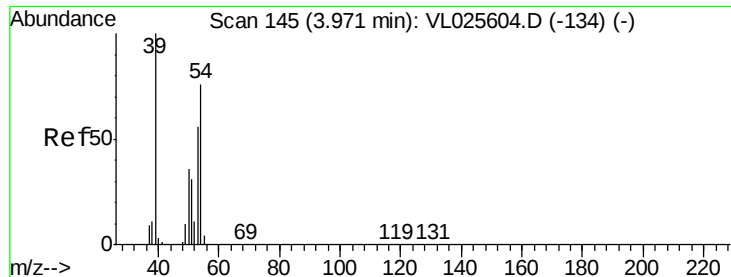
42 62.2 52.4 78.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#16

1,3-Butadiene

Concen: 0.05 ppbv

RT: 3.94 min Scan# 140

Delta R.T. -0.03 min

Lab File: VL025771.D

Acq: 28 Jul 2015 3:00

Instrument :

MSVOA_L

ClientSampleId :

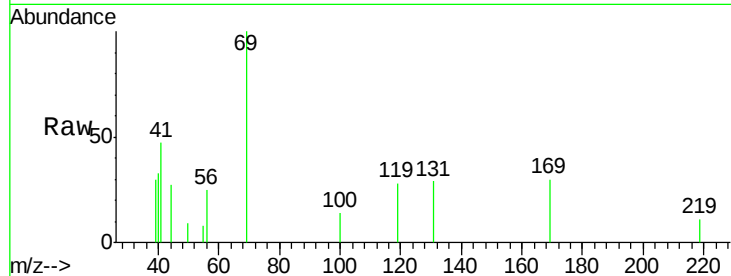
DIN46-EFFLUENT-072315DL

Tot Ion: 39 Resp: 2495

Ion Ratio Lower Upper

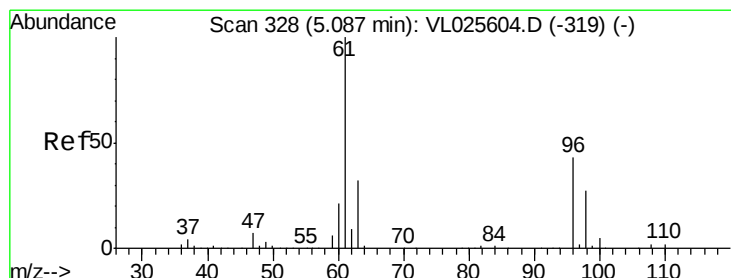
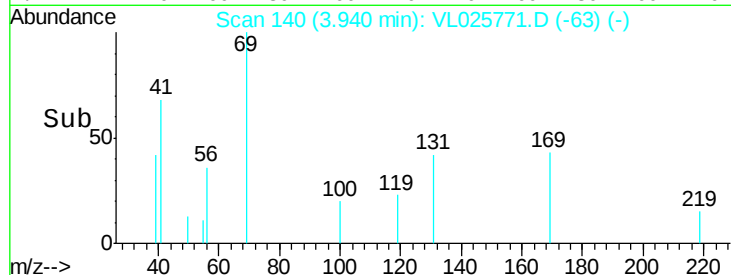
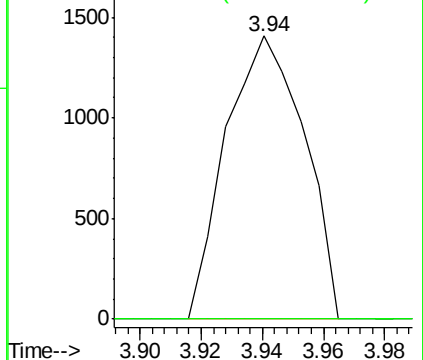
39 100

54 0.0 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#18

1,1-Dichloroethene

Concen: 0.07 ppbv

RT: 5.09 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL025771.D

Acq: 28 Jul 2015 3:00

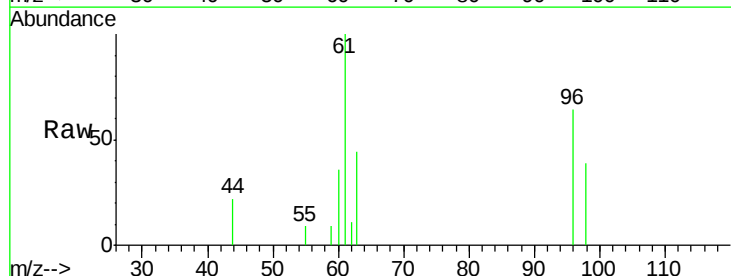
Tgt Ion: 96 Resp: 3637

Ion Ratio Lower Upper

96 100

61 135.1 184.1 276.1#

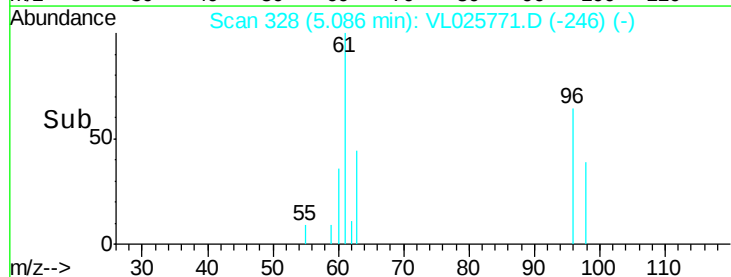
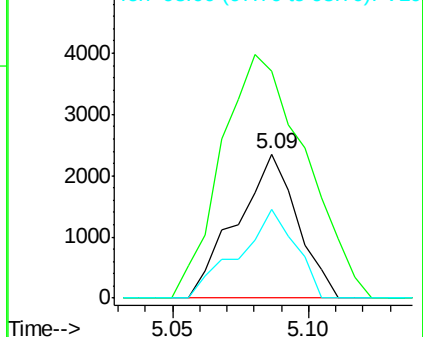
98 61.1 50.0 75.0

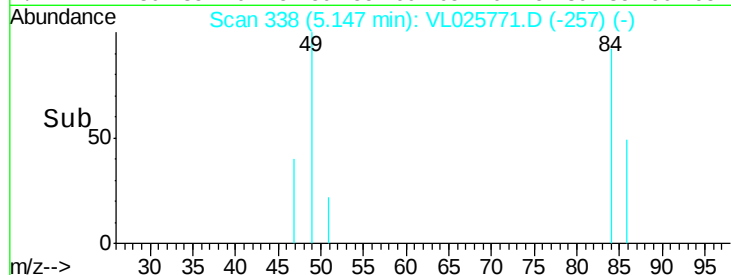
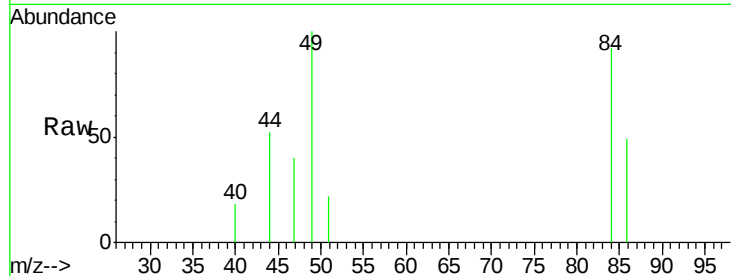
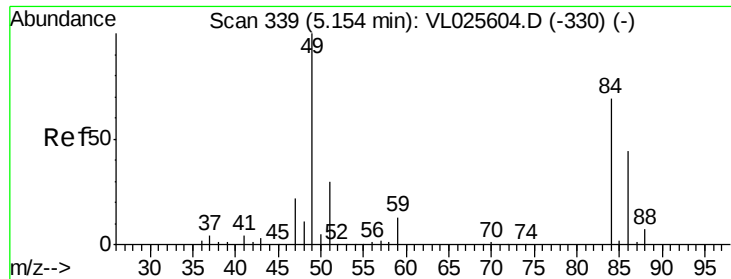


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

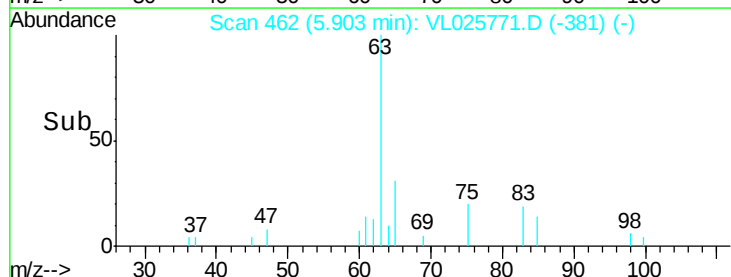
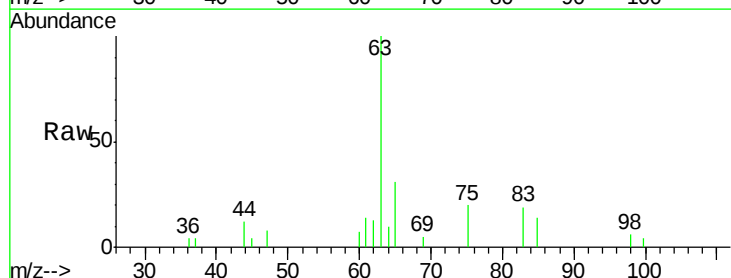
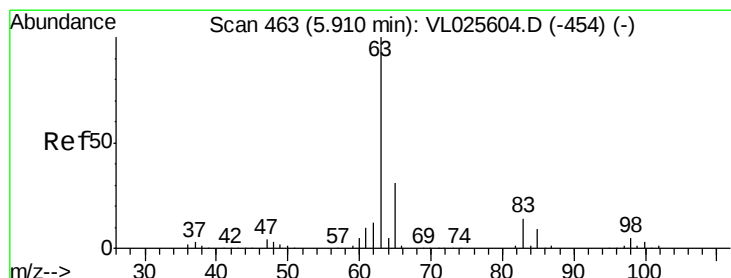
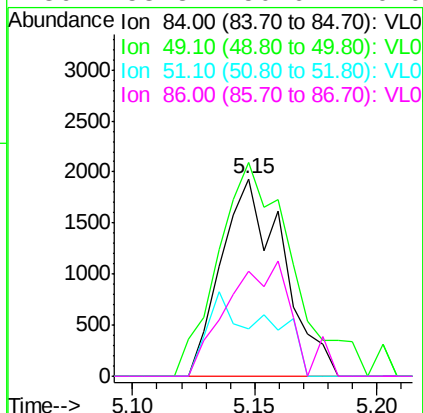




#20
Methvlene Chloride
Concen: 0.06 ppbv
RT: 5.15 min Scan# 338
Delta R.T. -0.01 min
Lab File: VL025771.D
Acq: 28 Jul 2015 3:00

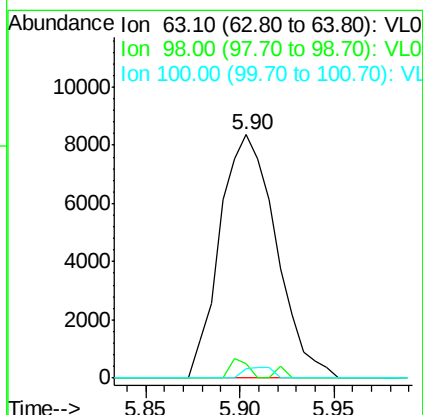
Instrument :
MSVOA_L
ClientSampleId :
DIN46-EFFLUENT-072315DL

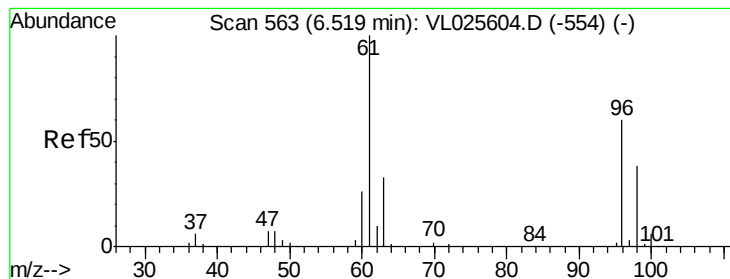
Tot Ion: 84 Resp: 3395
Ion Ratio Lower Upper
84 100
49 90.4 115.2 172.8#
51 23.7 35.0 52.6#
86 53.3 50.6 76.0



#24
1,1-Dichloroethane
Concen: 0.13 ppbv
RT: 5.90 min Scan# 462
Delta R.T. -0.01 min
Lab File: VL025771.D
Acq: 28 Jul 2015 3:00

Tgt Ion: 63 Resp: 17320
Ion Ratio Lower Upper
63 100
98 5.9 2.6 8.0
100 3.6 1.6 4.7





#31

cis-1,2-Dichloroethene

Concen: 0.23 ppbv

RT: 6.51 min Scan# 562

Delta R.T. -0.01 min

Lab File: VL025771.D

Acq: 28 Jul 2015 3:00

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-072315DL

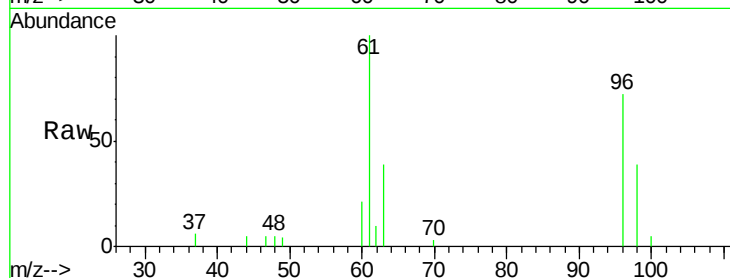
Tot Ion: 61 Resp: 21262

Ion Ratio Lower Upper

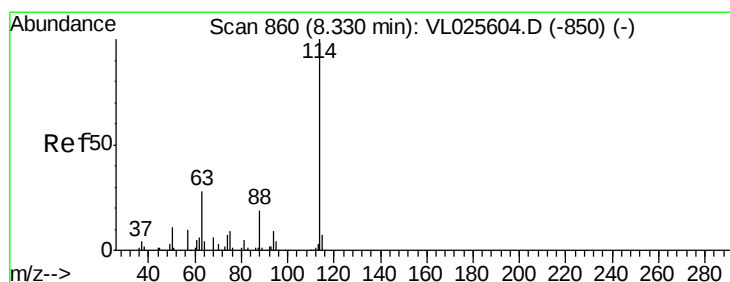
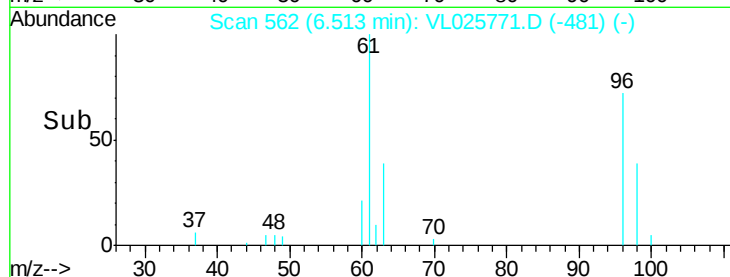
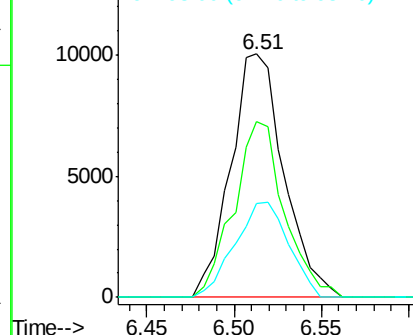
61 100

96 72.0 48.1 72.1

98 38.5 30.7 46.1



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.32 min Scan# 859

Delta R.T. -0.01 min

Lab File: VL025771.D

Acq: 28 Jul 2015 3:00

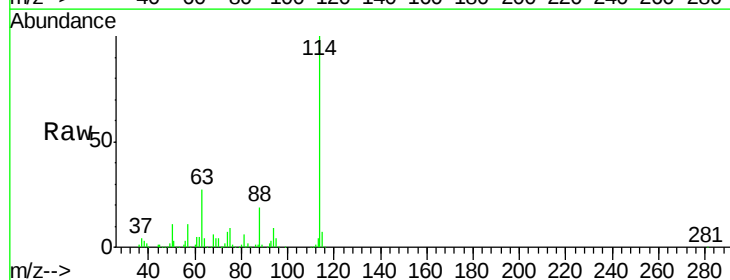
Tgt Ion: 114 Resp: 1961233

Ion Ratio Lower Upper

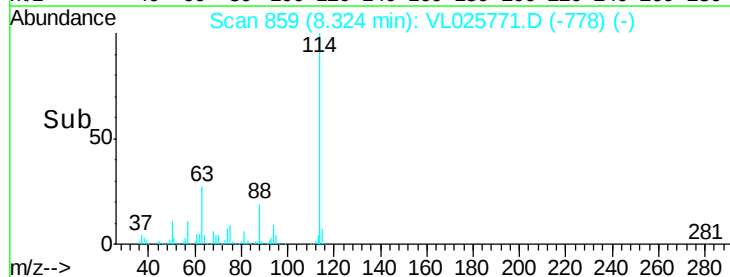
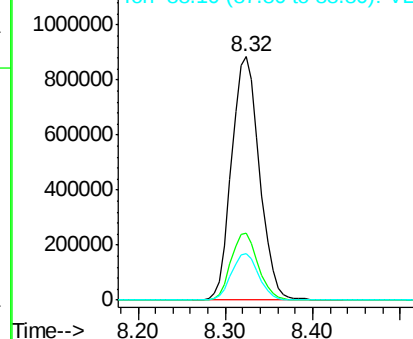
114 100

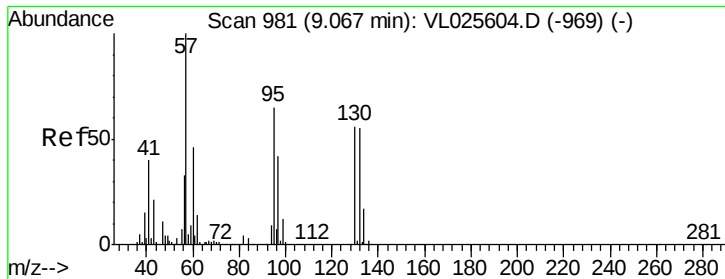
63 27.0 22.4 33.6

88 18.8 15.0 22.4



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

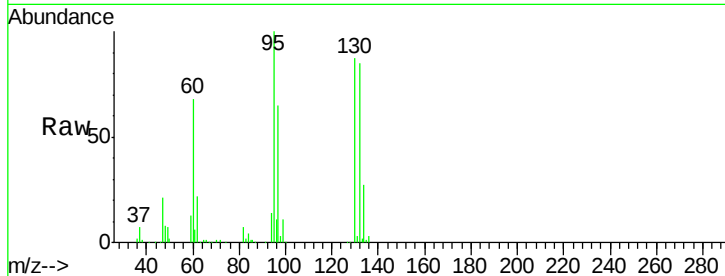




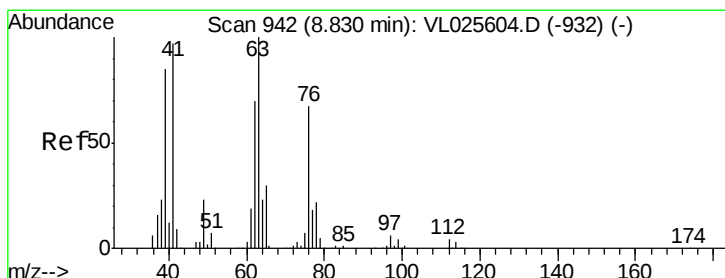
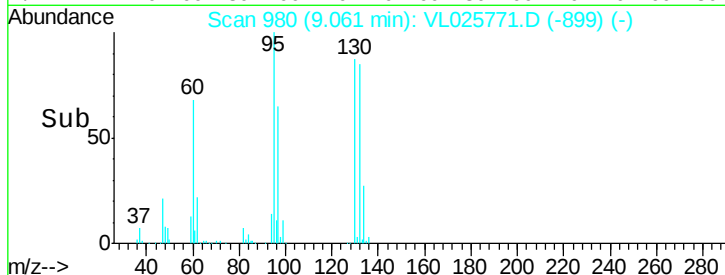
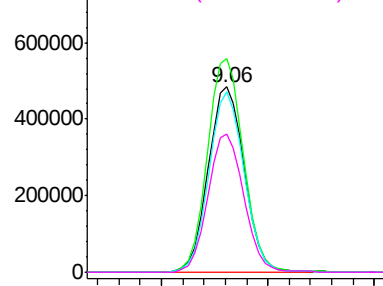
#38
 Trichloroethene
 Concen: 13.20 ppbv
 RT: 9.06 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VL025771.D
 Acq: 28 Jul 2015 3:00

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-EFFLUENT-072315DL

Tot Ion:130 Resp: 1152688
 Ion Ratio Lower Upper
 130 100
 95 115.5 94.2 141.4
 132 97.6 78.6 118.0
 97 74.8 60.6 90.8

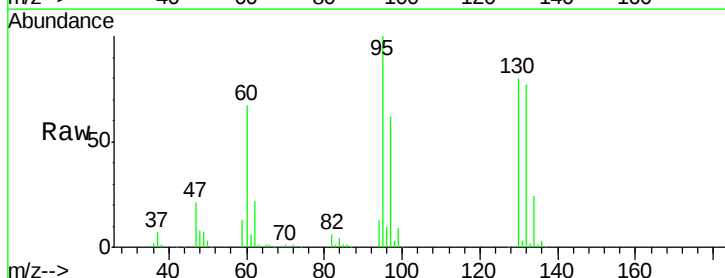


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

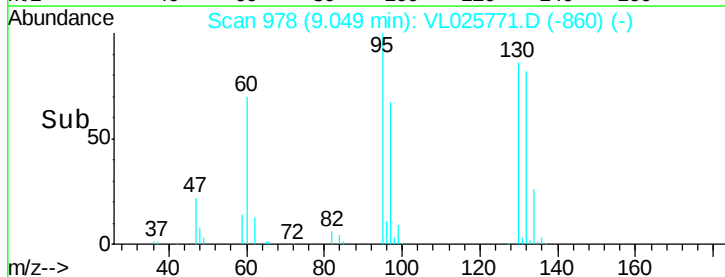
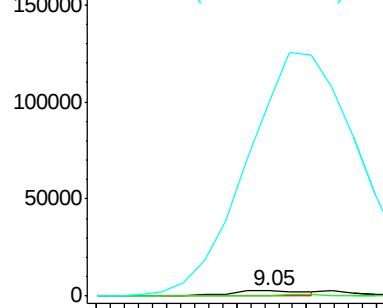


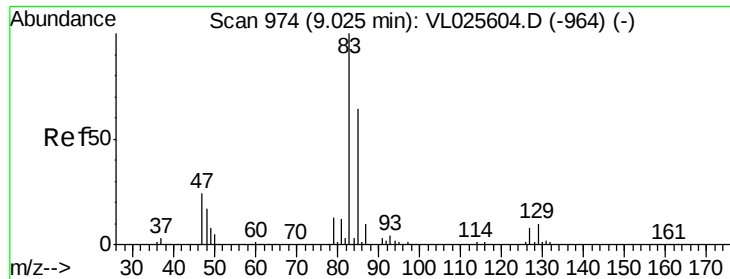
#39
 1,2-Dichloropropane
 Concen: 0.06 ppbv
 RT: 9.05 min Scan# 978
 Delta R.T. 0.22 min
 Lab File: VL025771.D
 Acq: 28 Jul 2015 3:00

Tgt Ion: 63 Resp: 4252
 Ion Ratio Lower Upper
 63 100
 41 0.0 78.0 117.0#
 62 3710.8 55.7 83.5#



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





#42

Bromodichloromethane

Concen: 0.09 ppbv

RT: 9.06 min Scan# 980

Delta R.T. 0.04 min

Lab File: VL025771.D

Acq: 28 Jul 2015 3:00

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-072315DL

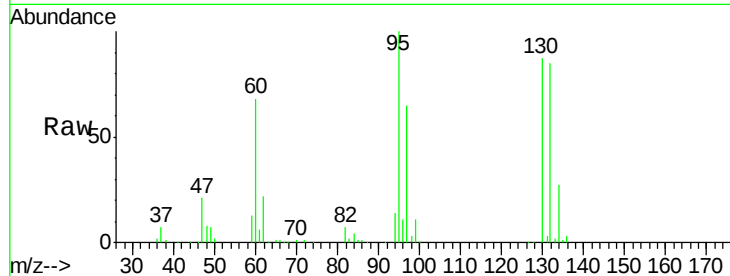
Tot Ion: 83 Resp: 18097

Ion Ratio Lower Upper

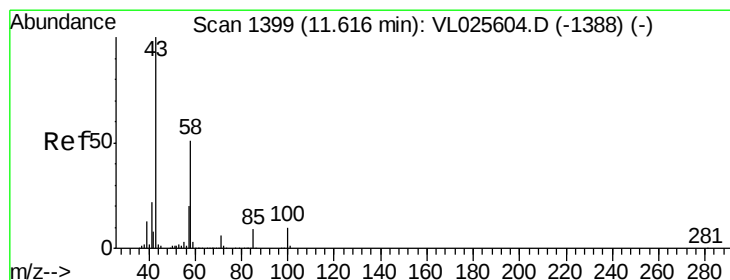
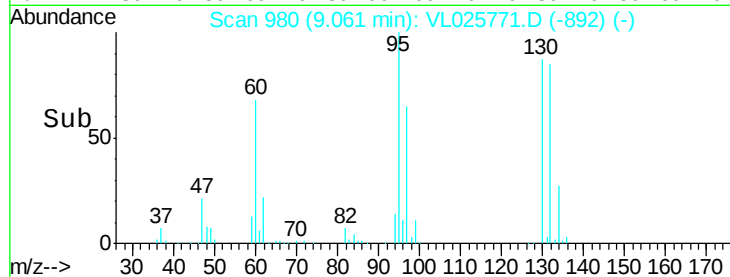
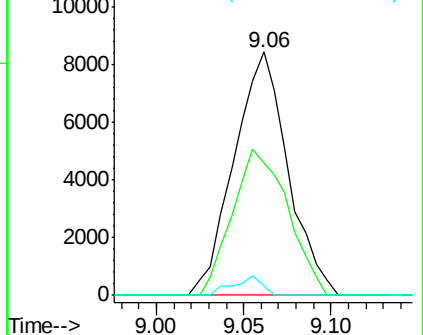
83 100

85 54.6 51.3 76.9

127 3.8 6.0 9.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#51

2-Hexanone

Concen: 0.14 ppbv

RT: 11.93 min Scan# 1451

Delta R.T. 0.32 min

Lab File: VL025771.D

Acq: 28 Jul 2015 3:00

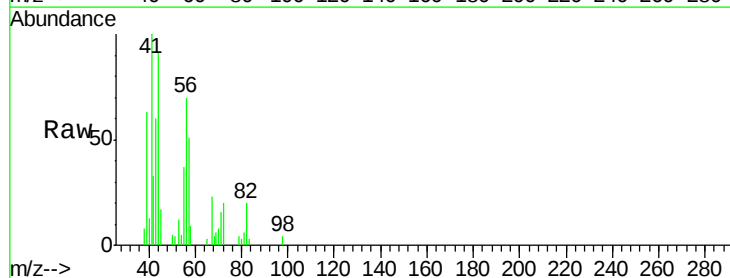
Tgt Ion: 43 Resp: 20731

Ion Ratio Lower Upper

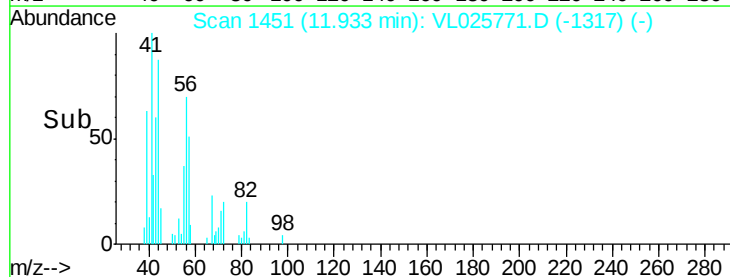
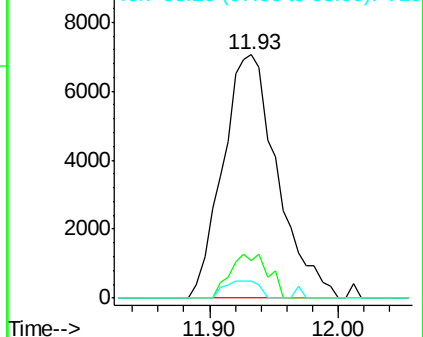
43 100

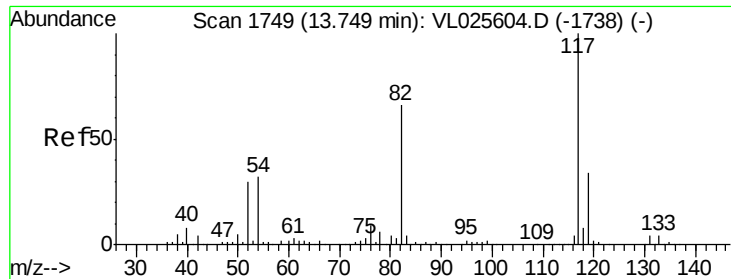
58 12.7 39.0 58.6#

98 5.2 0.2 0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

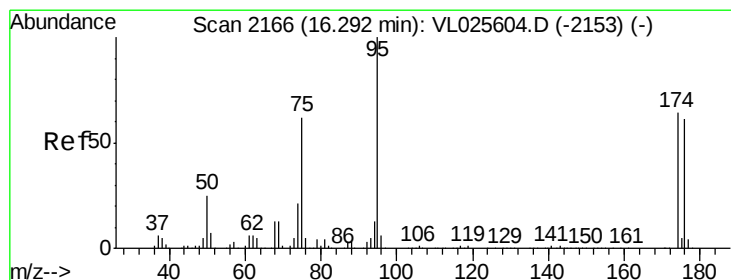
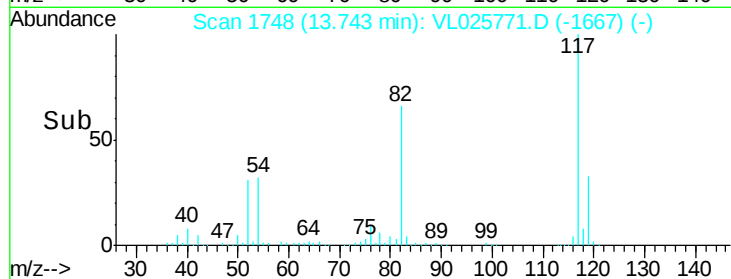
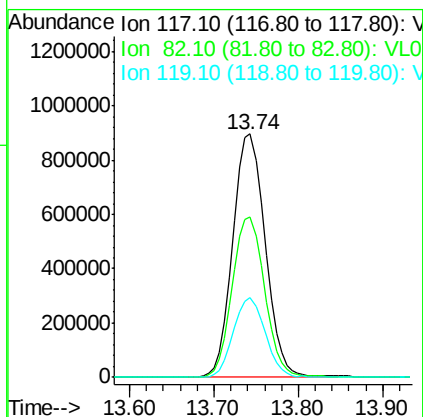
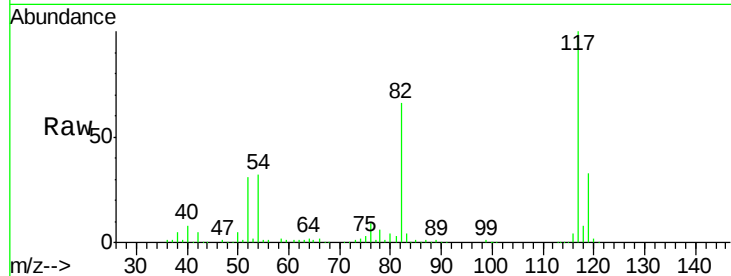




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.74 min Scan# 1748
Delta R.T. -0.01 min
Lab File: VL025771.D
Acq: 28 Jul 2015 3:00

Instrument :
MSVOA_L
ClientSampleId :
DIN46-EFFLUENT-072315DL

Tot Ion:117 Resp: 2342567
Ion Ratio Lower Upper
117 100
82 66.3 50.5 75.7
119 32.6 45.1 67.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.29 ppbv
RT: 16.29 min Scan# 2165
Delta R.T. -0.01 min
Lab File: VL025771.D
Acq: 28 Jul 2015 3:00

Tgt Ion: 95 Resp: 2033070
Ion Ratio Lower Upper
95 100
174 63.7 52.0 78.0
175 4.9 3.9 5.9

