

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025620.D
 Acq On : 7 Jul 2015 23:19
 Operator : SY/MD
 Sample : G2872-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-INFLUENT-070115DL

Manual Integrations
 APPROVED

sam
 7/8/2015 11:06:34 AM

Quant Time: Jul 08 08:14:20 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08
 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	6.66	49	855743	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	2244733	10.00	ppbv	0.03
55) Chlorobenzene-d5	13.76	117	2660722	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.30	95	2184758	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.89	62	1556423	26.20	ppbv	97
9) Propene	3.60	41	53205	1.33	ppbv	88
10) Heptane	9.40	43	37714	0.24	ppbv	100
18) 1,1-Dichloroethene	5.09	96	118399	1.88	ppbv	95
20) Methylene Chloride	5.15	84	8758	0.14	ppbv	83
22) trans-1,2-Dichloroethene	5.77	96	134889	2.09	ppbv	97
26) Hexane	6.67	57	65937	0.61	ppbv #	44
30) Cyclohexane	8.29	84	25469m	0.25	ppbv	
31) cis-1,2-Dichloroethene	6.52	61	7984070	74.59	ppbv #	87
32) 1,1,1-Trichloroethane	7.60	97	61386	0.27	ppbv #	89
36) Benzene	8.05	78	49776	0.23	ppbv	96
38) Trichloroethene	9.15	130	39102664	391.19	ppbv	88
52) Tetrachloroethene	12.82	164	19003m	0.18	ppbv	
53) Toluene	11.27	91	168533	0.56	ppbv	98

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

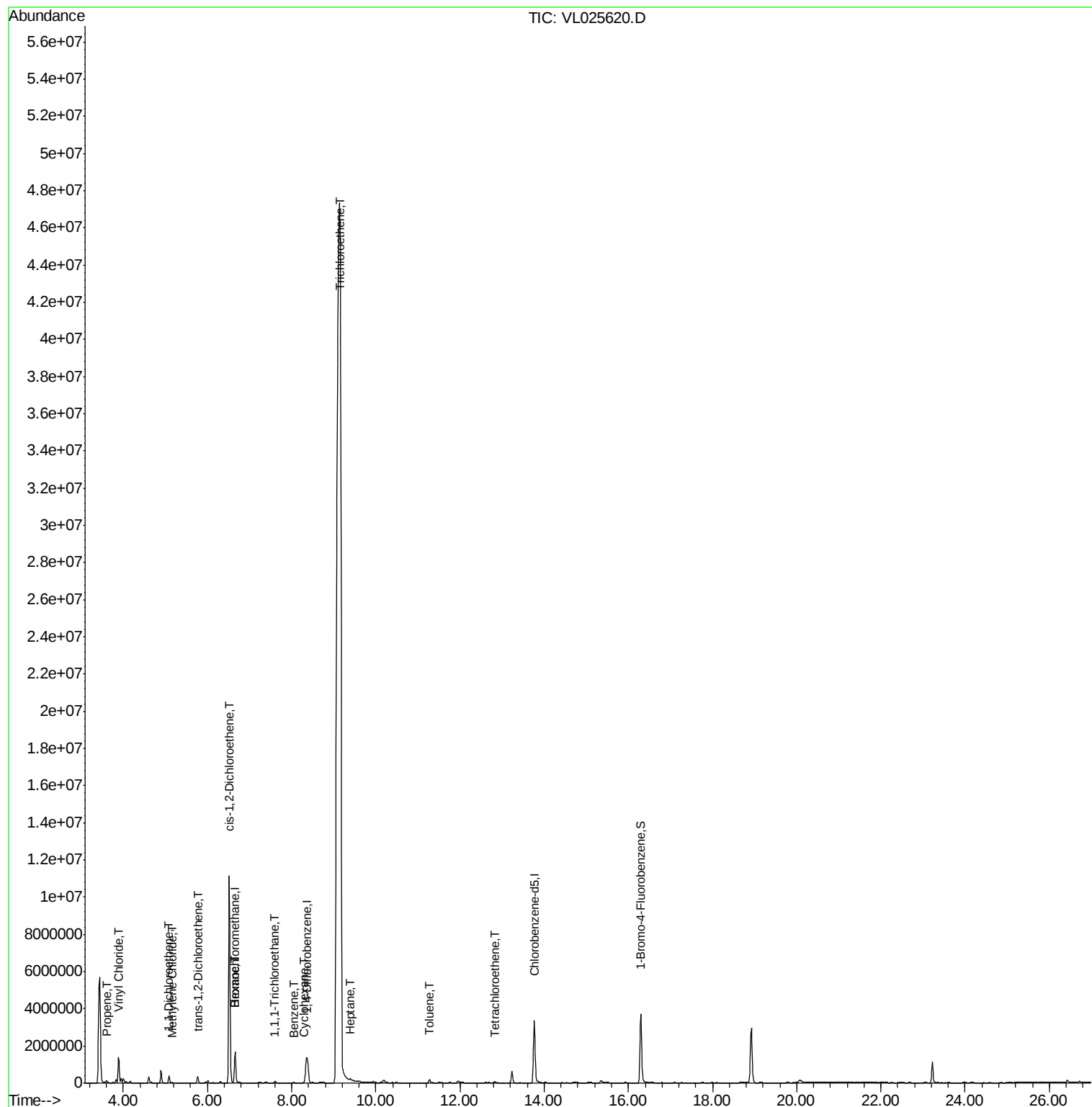
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
Data File : VL025620.D
Acq On : 7 Jul 2015 23:19
Operator : SY/MD
Sample : G2872-04DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

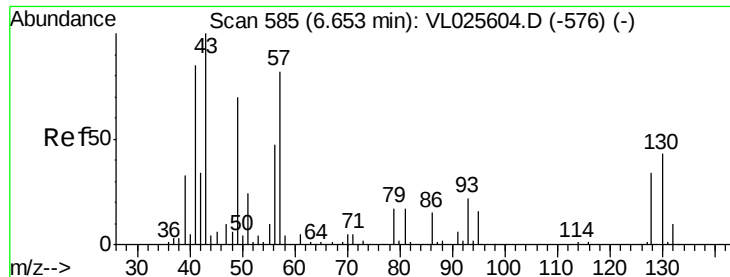
Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-070115DL

Manual Integrations
APPROVED

sam
7/8/2015 11:06:34 AM

Quant Time: Jul 08 08:14:20 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.01 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-070115DL

Tot Ion: 49 Resp: 855743

Ion Ratio Lower Upper

49 100

128 50.1 25.4 76.0

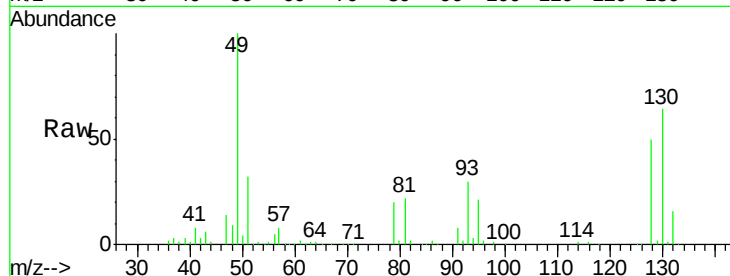
130 63.8 31.9 95.9

Manual Integrations

APPROVED

sam

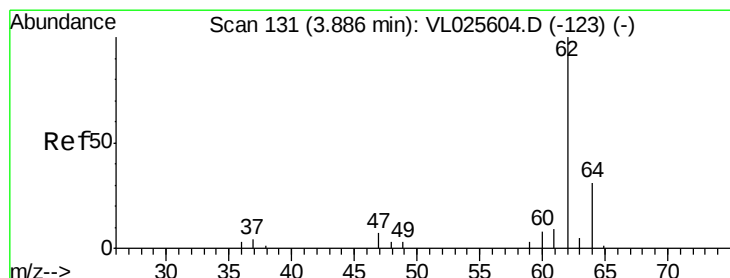
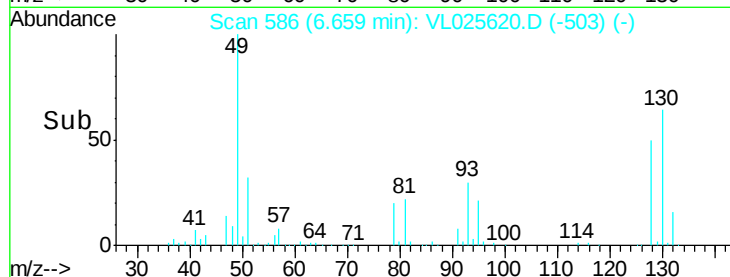
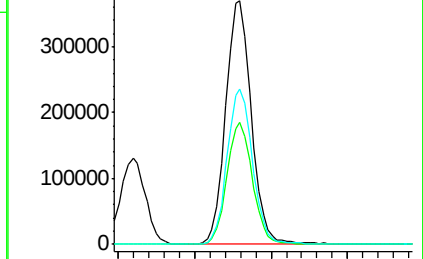
7/8/2015 11:06:34 AM



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



#5

Vinyl Chloride

Concen: 26.20 ppbv

RT: 3.89 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL025620.D

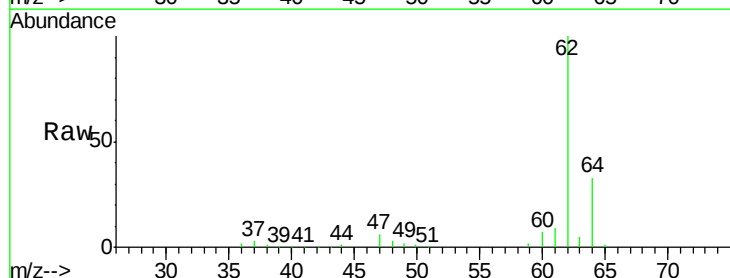
Acq: 7 Jul 2015 23:19

Tgt Ion: 62 Resp: 1556423

Ion Ratio Lower Upper

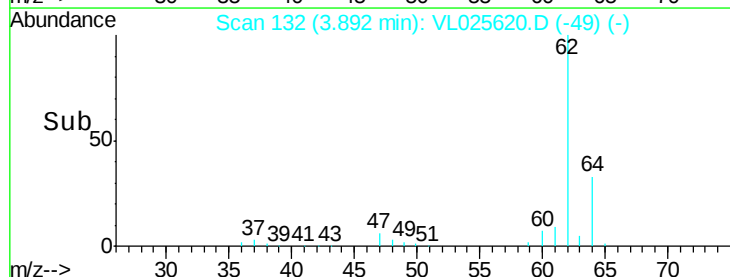
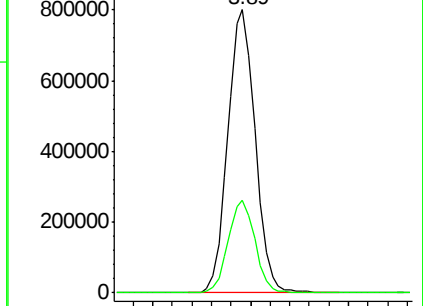
62 100

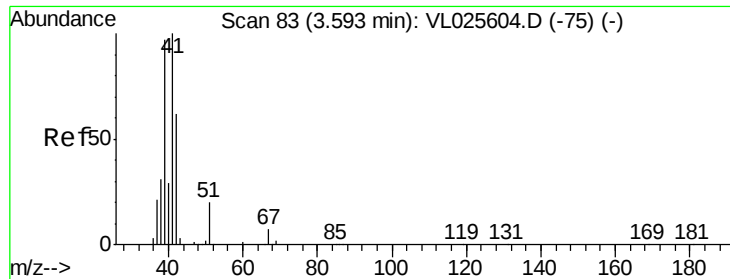
64 32.7 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 1.33 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-070115DL

Tot Ion: 41 Resp: 53205

Ion Ratio Lower Upper

41 100

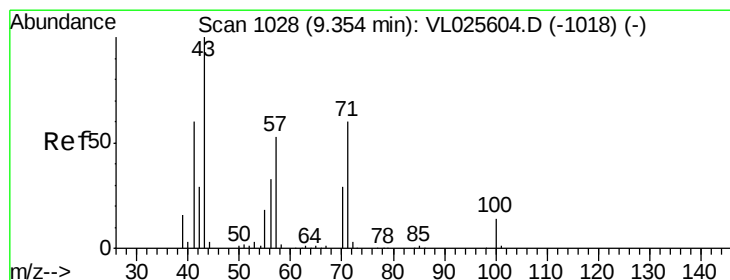
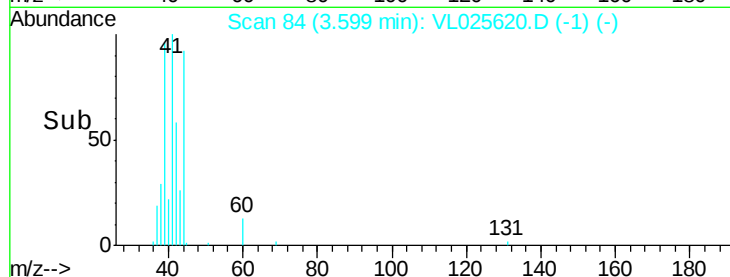
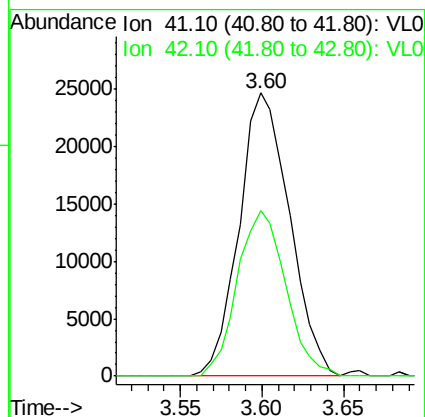
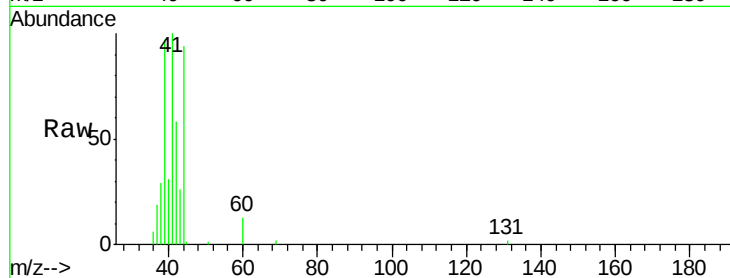
42 55.9 52.4 78.6

Manual Integrations

APPROVED

sam

7/8/2015 11:06:34 AM



#10

Heptane

Concen: 0.24 ppbv

RT: 9.40 min Scan# 1036

Delta R.T. 0.05 min

Lab File: VL025620.D

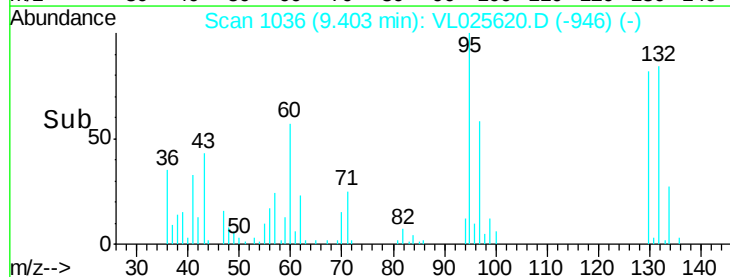
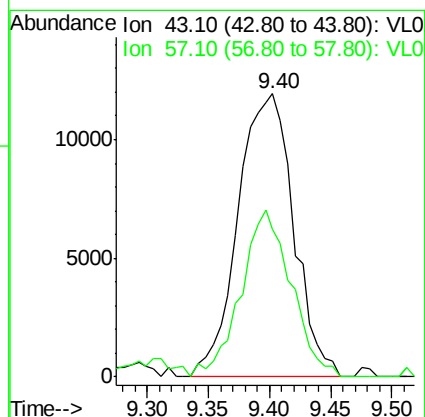
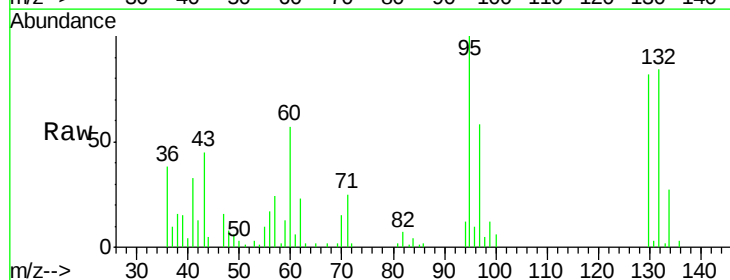
Acq: 7 Jul 2015 23:19

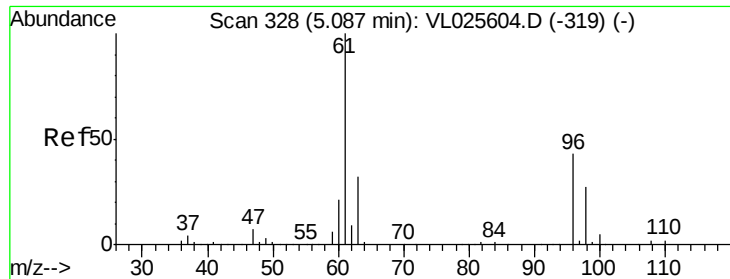
Tgt Ion: 43 Resp: 37714

Ion Ratio Lower Upper

43 100

57 53.3 42.6 64.0





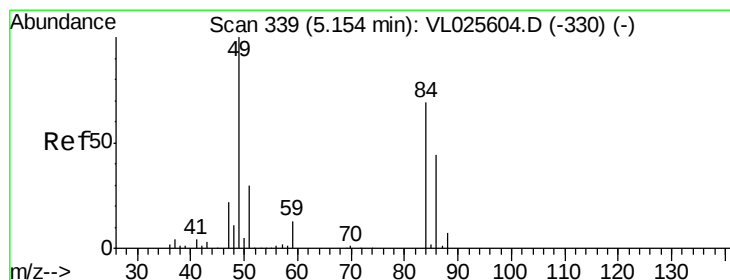
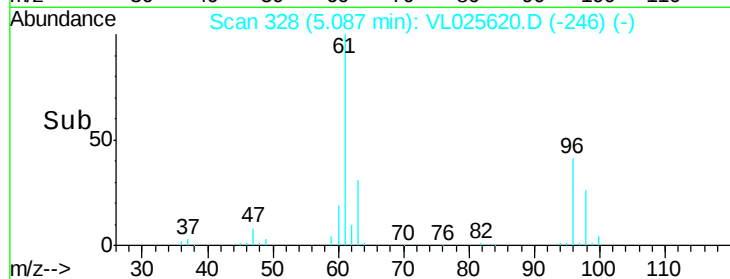
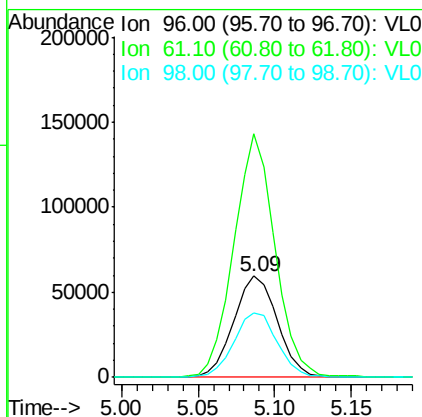
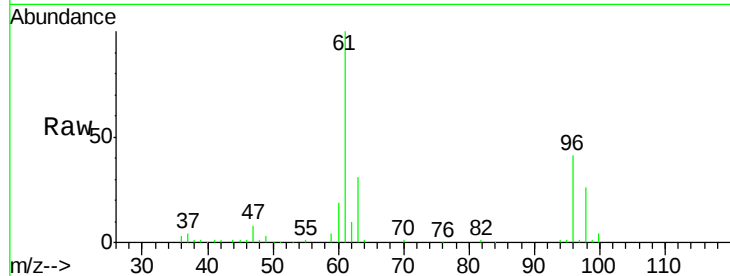
#18
 1,1-Dichloroethene
 Concen: 1.88 ppbv
 RT: 5.09 min Scan# 328
 Delta R.T. 0.00 min
 Lab File: VL025620.D
 Acq: 7 Jul 2015 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-INFLUENT-070115DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	239.6	184.1	276.1
98	63.7	50.0	75.0

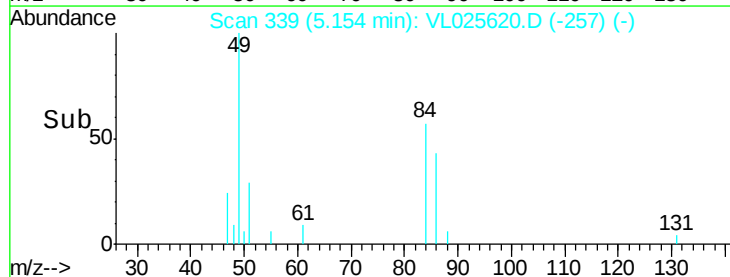
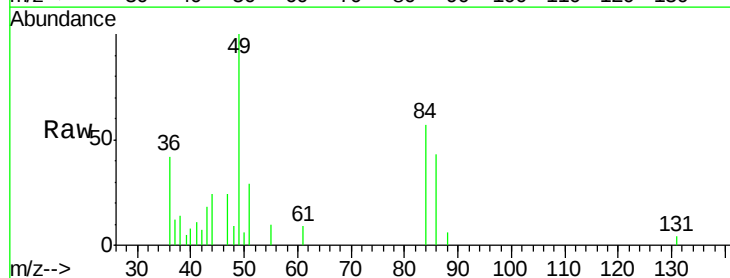
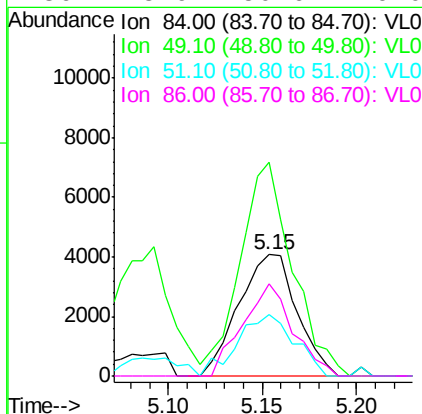
Manual Integrations
 APPROVED

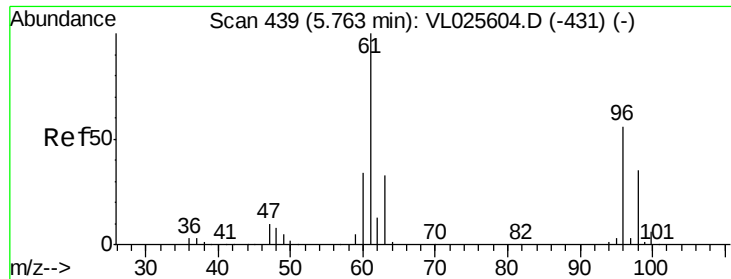
sam
 7/8/2015 11:06:34 AM



#20
 Methylene Chloride
 Concen: 0.14 ppbv
 RT: 5.15 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VL025620.D
 Acq: 7 Jul 2015 23:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	168.0	115.2	172.8
51	51.1	35.0	52.6
86	75.9	50.6	76.0





#22

trans-1,2-Dichloroethene

Concen: 2.09 ppbv

RT: 5.77 min Scan# 440

Delta R.T. 0.01 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Instrument :

MSVOA_L

ClientSampleId :

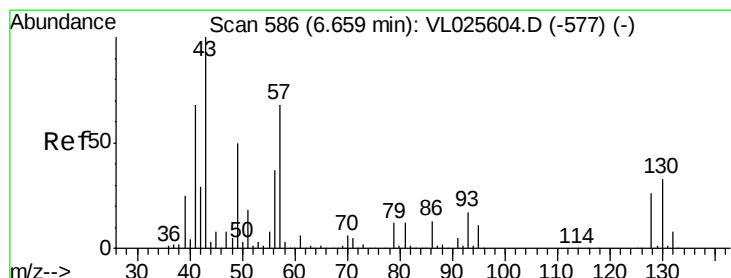
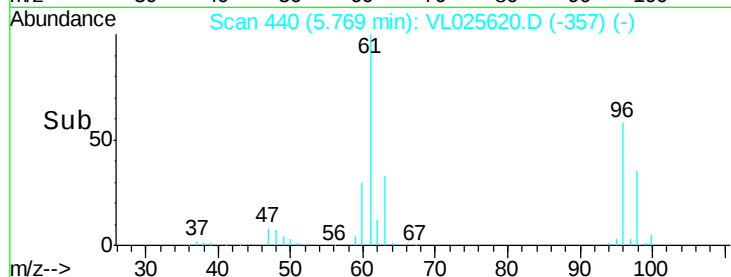
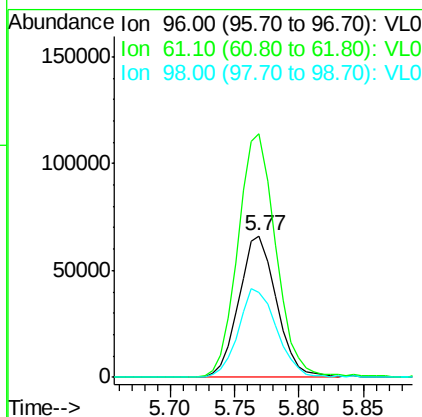
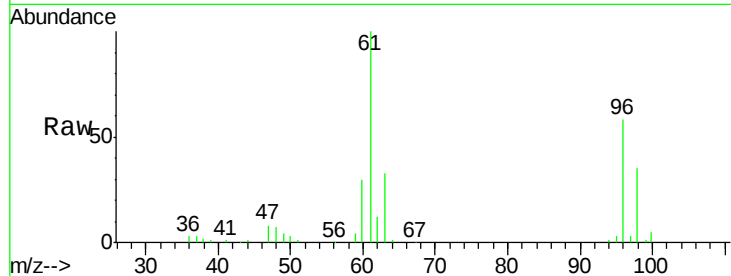
ERD45-INFLUENT-070115DL

Tot Ion:	96	Resp:	134889
Ion Ratio	Lower	Upper	
96	100		
61	172.1	141.8	212.6
98	60.1	49.0	73.6

Manual Integrations
APPROVED

sam

7/8/2015 11:06:34 AM



#26

Hexane

Concen: 0.61 ppbv

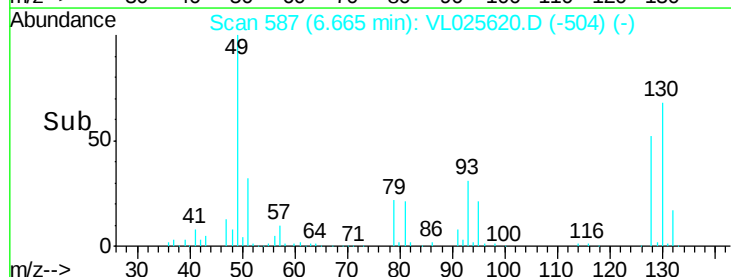
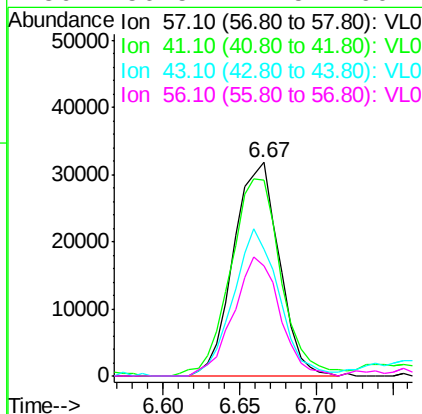
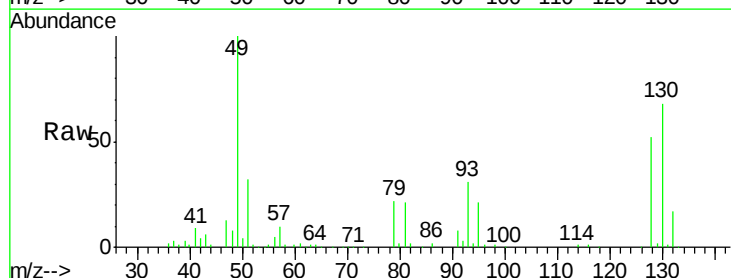
RT: 6.67 min Scan# 587

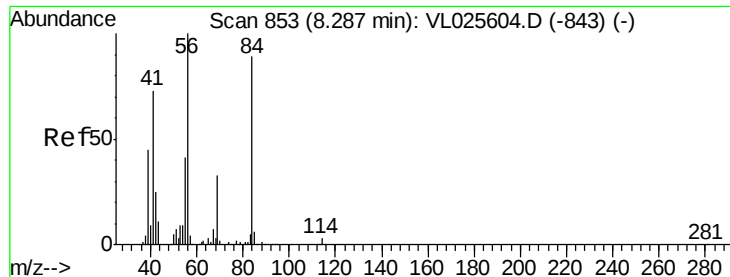
Delta R.T. 0.01 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Tgt Ion:	57	Resp:	65937
Ion Ratio	Lower	Upper	
57	100		
41	114.2	81.4	122.2
43	69.8	171.4	257.2
56	56.5	44.5	66.7





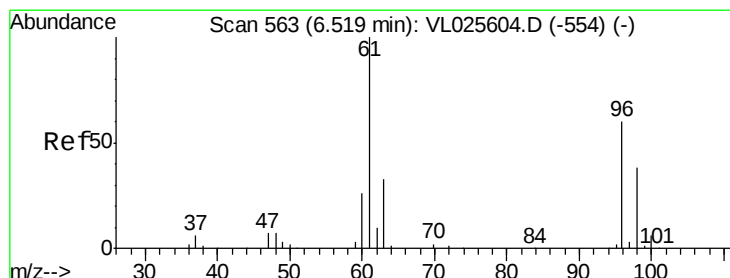
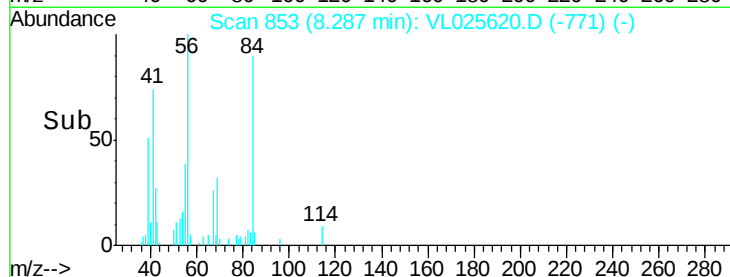
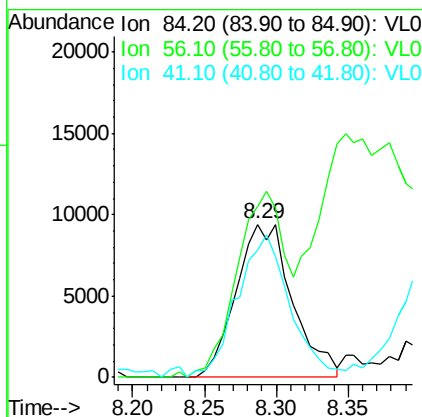
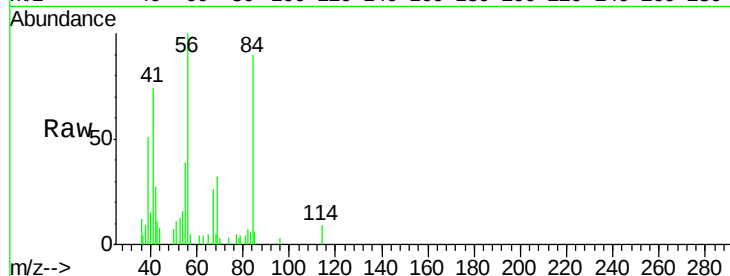
#30
Cvclohexane
Concen: 0.25 ppbv m
RT: 8.29 min Scan# 853
Delta R.T. 0.00 min
Lab File: VL025620.D
Acq: 7 Jul 2015 23:19

Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-070115DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	97.5	146.3#
41	93.0	65.4	98.2

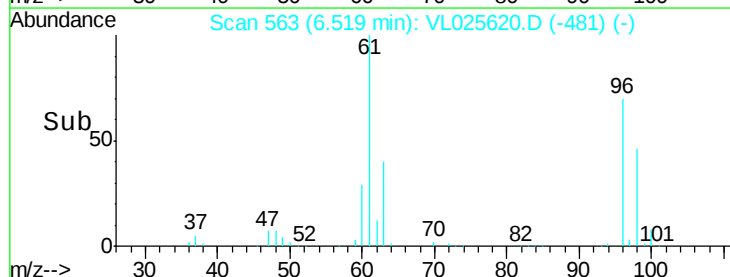
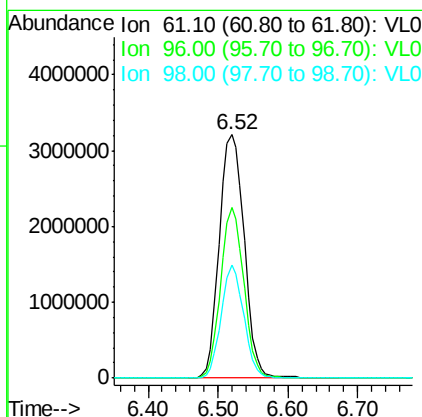
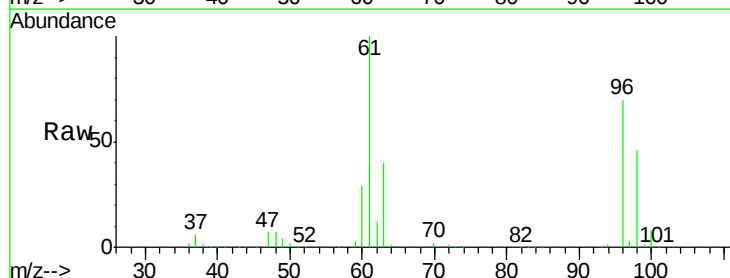
Manual Integrations
APPROVED

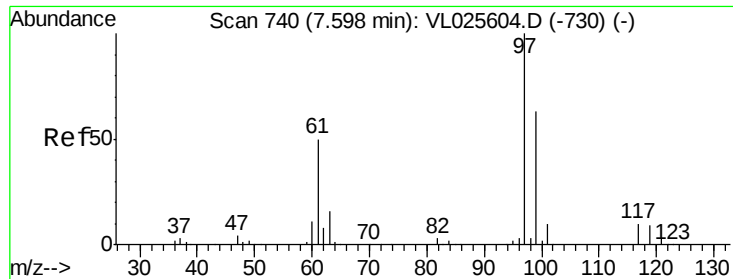
sam
7/8/2015 11:06:34 AM



#31
cis-1,2-Dichloroethene
Concen: 74.59 ppbv
RT: 6.52 min Scan# 563
Delta R.T. 0.00 min
Lab File: VL025620.D
Acq: 7 Jul 2015 23:19

Tgt Ion	Ratio	Lower	Upper
61	100		
96	69.9	48.1	72.1
98	46.2	30.7	46.1#





#32

1,1,1-Trichloroethane

Concen: 0.27 ppbv

RT: 7.60 min Scan# 741

Delta R.T. 0.01 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Instrument :

MSVOA_L

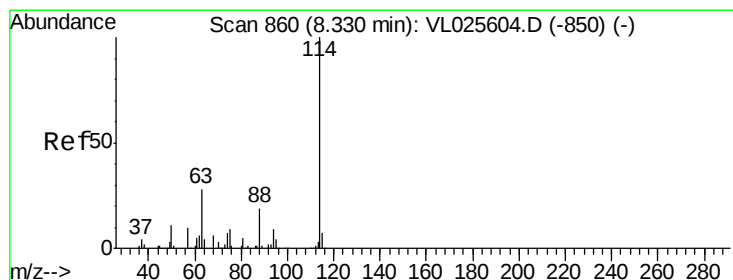
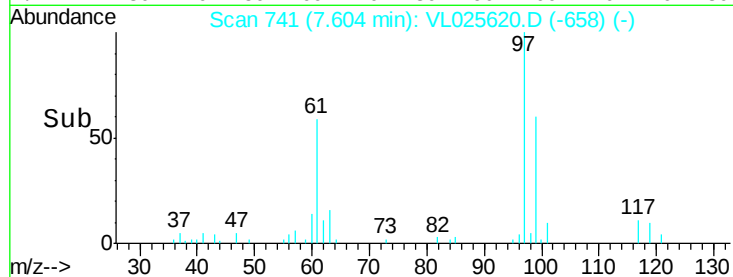
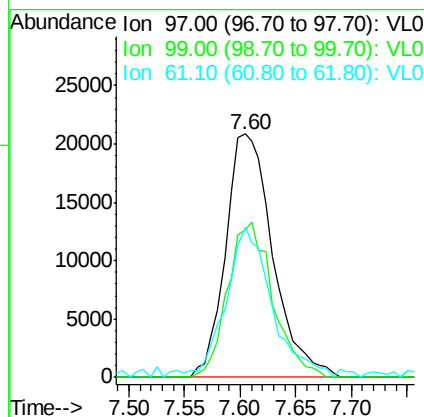
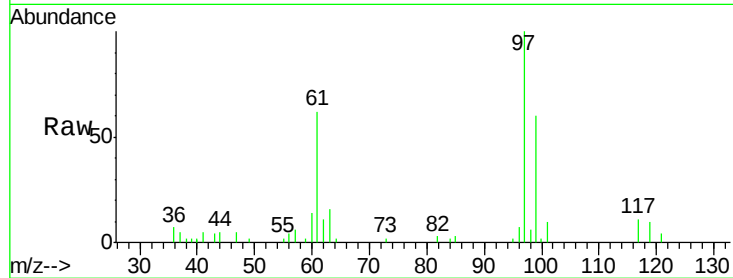
ClientSampleId :

ERD45-INFLUENT-070115DL

Tot Ion:	97	Resp:	61386
Ion	Ratio	Lower	Upper
97	100		
99	60.8	51.2	76.8
61	64.4	40.4	60.6#

Manual Integrations
APPROVED

sam
7/8/2015 11:06:34 AM



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

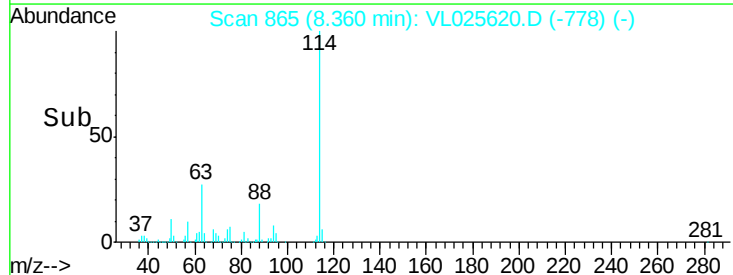
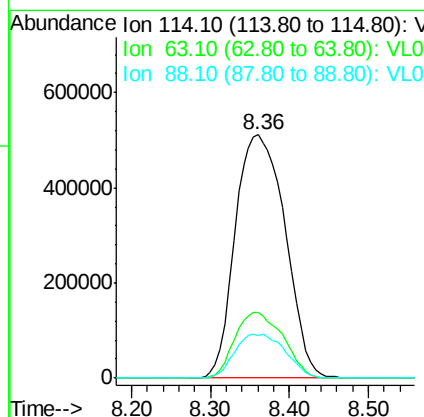
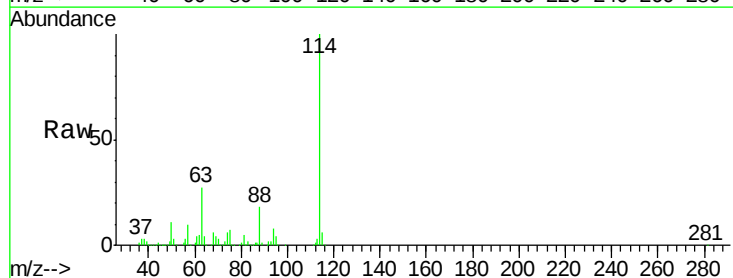
RT: 8.36 min Scan# 865

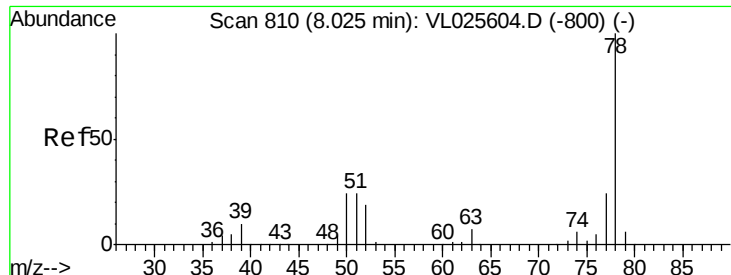
Delta R.T. 0.03 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Tgt Ion:	114	Resp:	2244733
Ion	Ratio	Lower	Upper
114	100		
63	26.4	22.4	33.6
88	18.3	15.0	22.4





#36

Benzene

Concen: 0.23 ppbv

RT: 8.05 min Scan# 814

Delta R.T. 0.02 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Instrument :

MSVOA_L

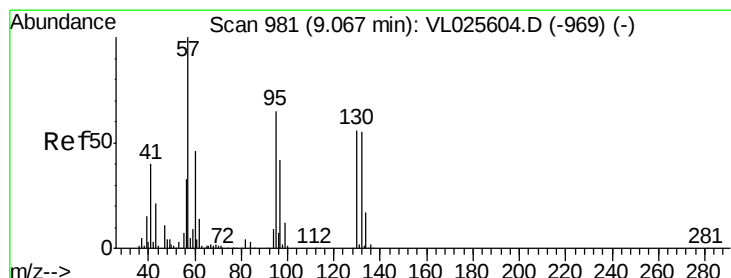
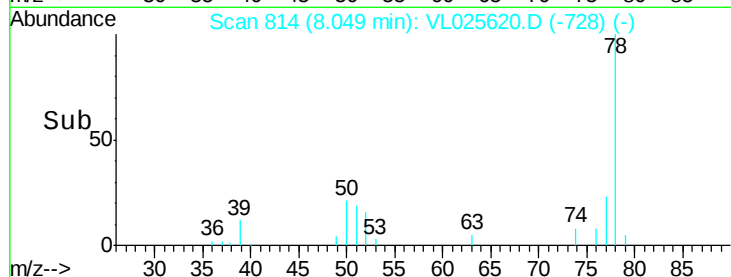
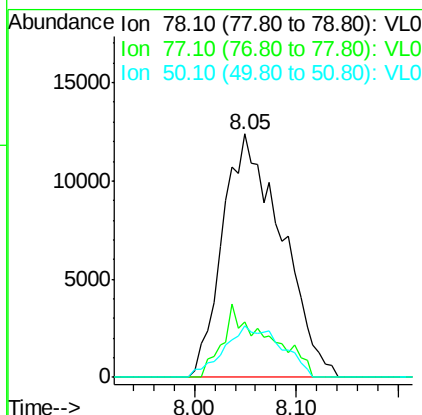
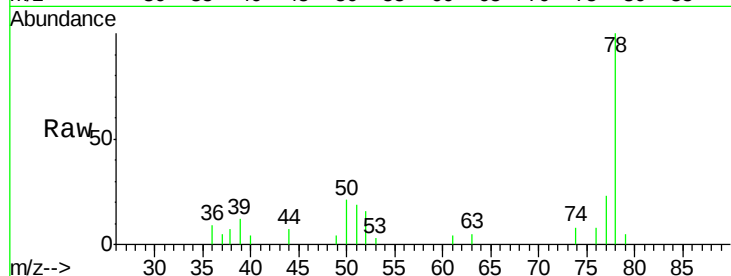
ClientSampleId :

ERD45-INFLUENT-070115DL

Tot Ion:	78	Resp:	49776
Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.0	28.4
50	21.1	19.2	28.8

Manual Integrations
APPROVED

sam
7/8/2015 11:06:34 AM



#38

Trichloroethene

Concen: 391.19 ppbv

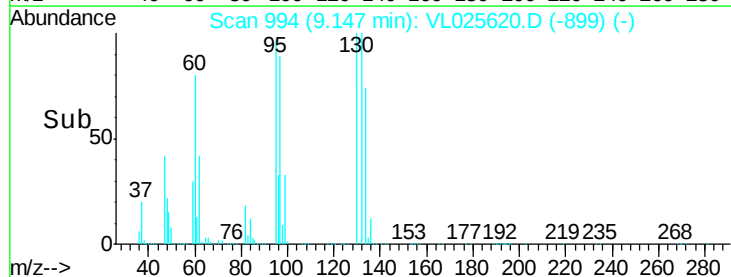
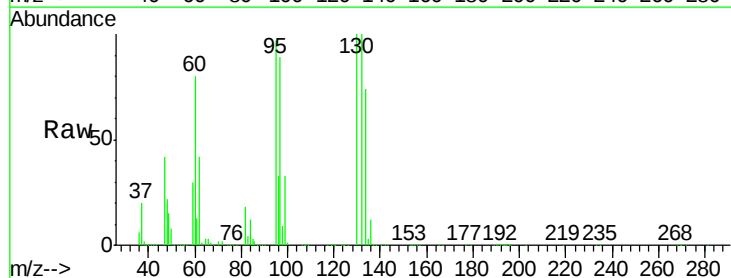
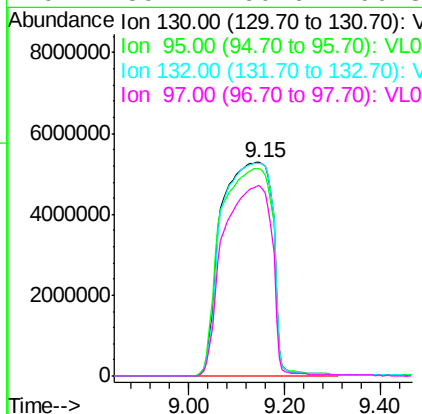
RT: 9.15 min Scan# 994

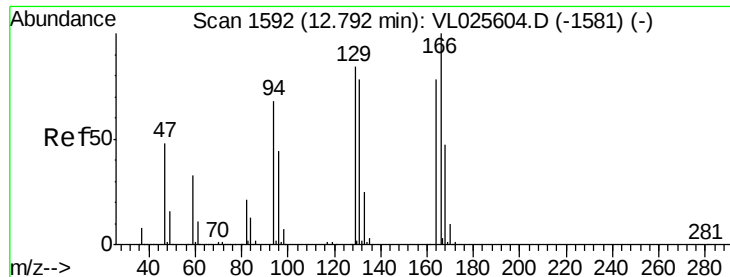
Delta R.T. 0.08 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Tgt Ion:	130	Resp:	39102664
Ion	Ratio	Lower	Upper
130	100		
95	97.3	94.2	141.4
132	99.7	78.6	118.0
97	89.1	60.6	90.8





#52

Tetrachloroethene

Concen: 0.18 ppbv m

RT: 12.82 min Scan# 1597

Delta R.T. 0.03 min

Lab File: VL025620.D

Acq: 7 Jul 2015 23:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-070115DL

Tot Ion:164 Resp: 19003

Ion Ratio Lower Upper

164 100

166 125.6 102.3 153.5

129 102.3 86.2 129.4

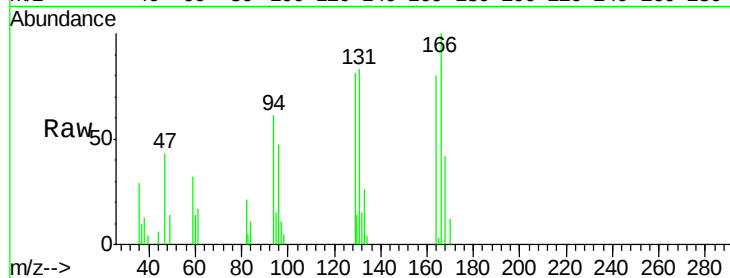
131 104.6 80.3 120.5

Manual Integrations

APPROVED

sam

7/8/2015 11:06:34 AM

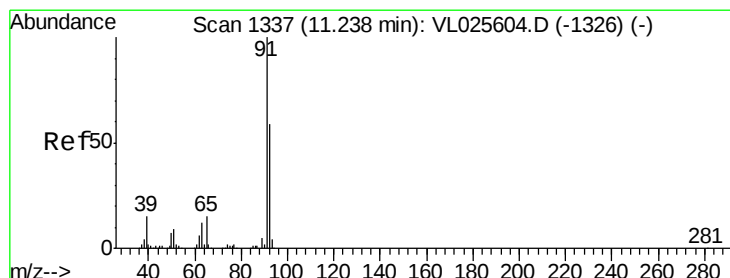
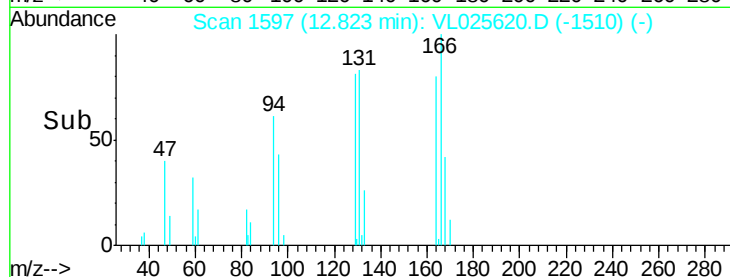
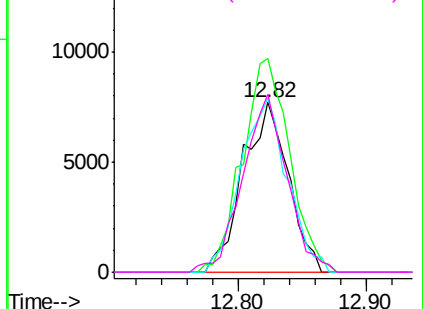


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.56 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.04 min

Lab File: VL025620.D

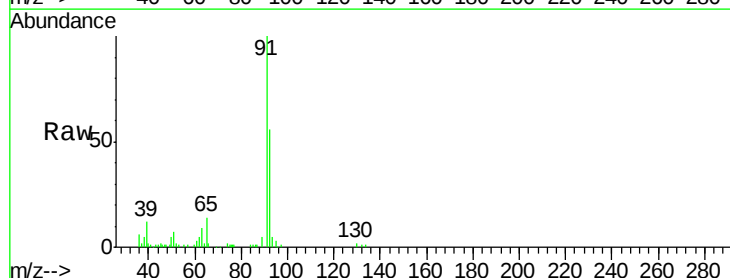
Acq: 7 Jul 2015 23:19

Tgt Ion: 91 Resp: 168533

Ion Ratio Lower Upper

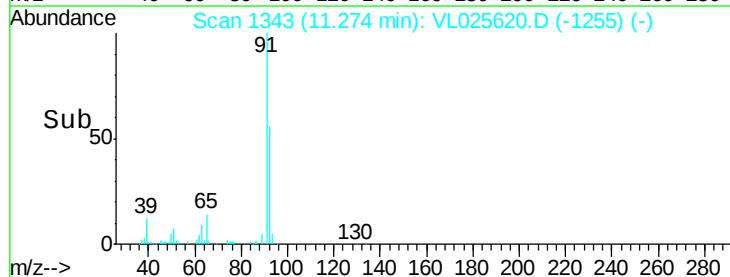
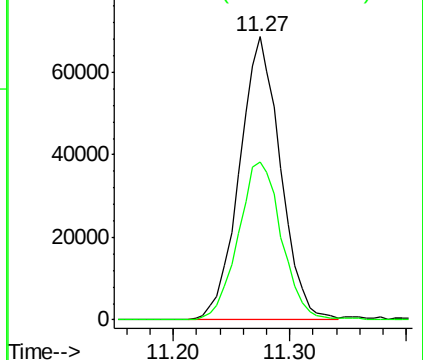
91 100

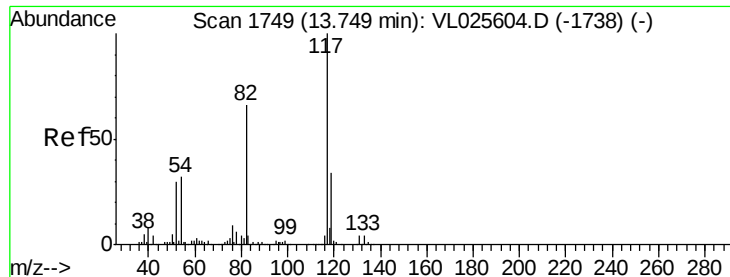
92 58.8 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





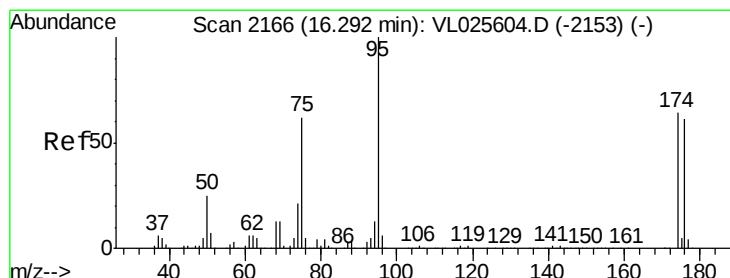
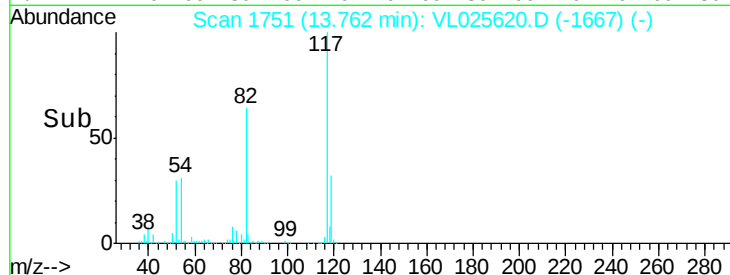
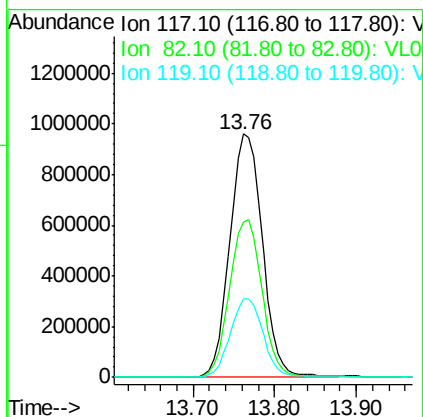
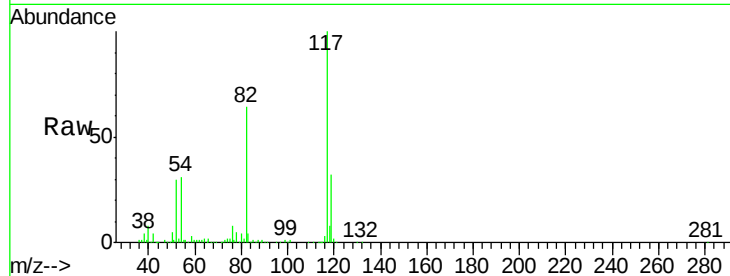
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.76 min Scan# 1751
Delta R.T. 0.01 min
Lab File: VL025620.D
Acq: 7 Jul 2015 23:19

Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-070115DL

Tot Ion:117 Resp: 2660722
Ion Ratio Lower Upper
117 100
82 65.3 50.5 75.7
119 32.8 45.1 67.7#

Manual Integrations
APPROVED

sam
7/8/2015 11:06:34 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.73 ppbv
RT: 16.30 min Scan# 2167
Delta R.T. 0.01 min
Lab File: VL025620.D
Acq: 7 Jul 2015 23:19

Tgt Ion: 95 Resp: 2184758
Ion Ratio Lower Upper
95 100
174 65.4 52.0 78.0
175 5.0 3.9 5.9

