

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025774.D
 Acq On : 28 Jul 2015 5:00
 Operator : SY/MD
 Sample : G3040-08 120X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDPOINT-072315

Quant Time: Jul 28 07:19:16 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	592227	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	1608114	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.75	117	2075639	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1790759	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

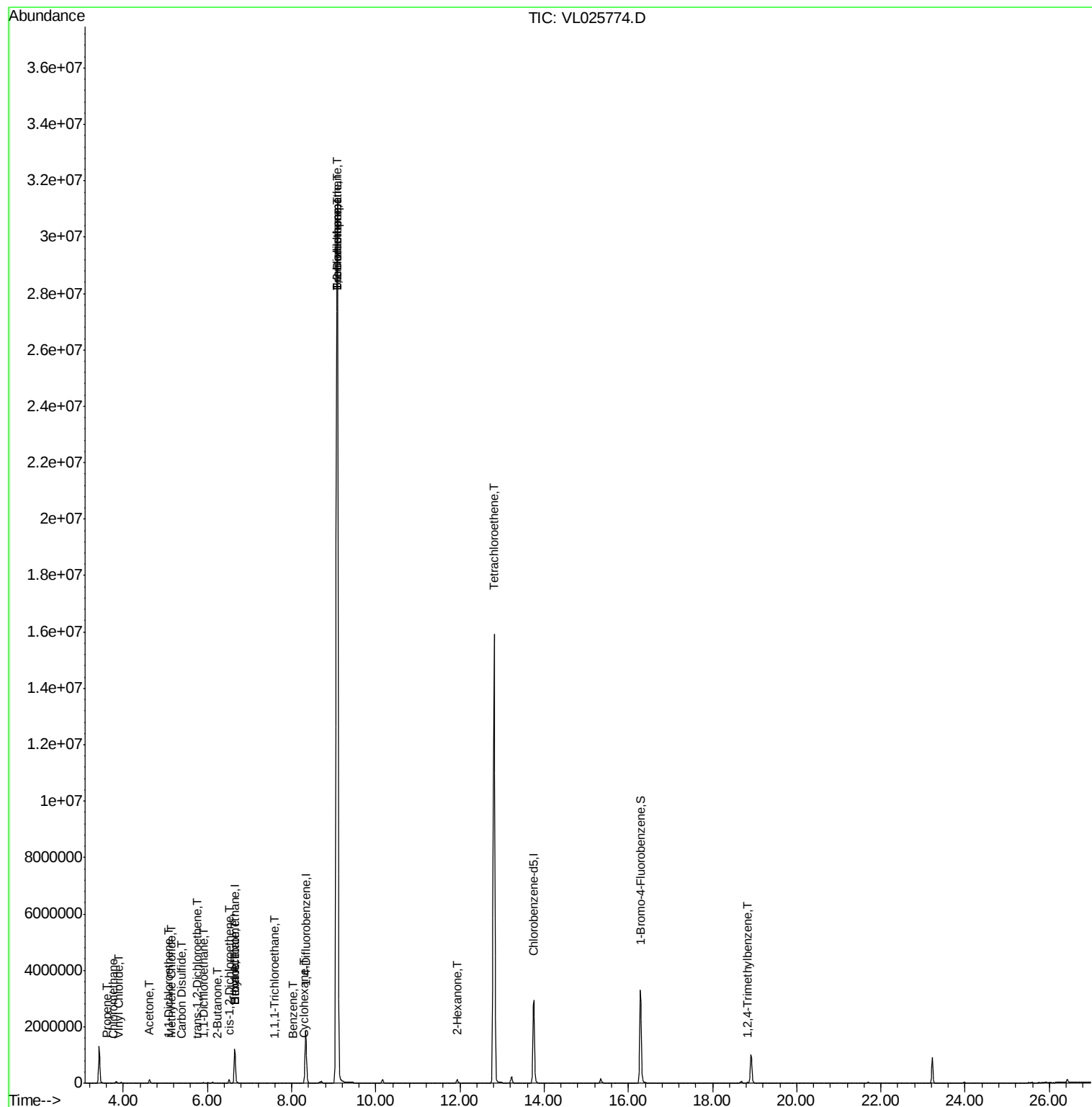
Target Compounds						Ovalue
4) Chloromethane	3.75	50	1704	0.04	ppbv	90
5) Vinyl Chloride	3.89	62	2360	0.06	ppbv	91
9) Propene	3.60	41	4018	0.14	ppbv #	73
15) Acetone	4.62	43	183805	1.76	ppbv	96
18) 1,1-Dichloroethene	5.09	96	5877	0.13	ppbv #	76
20) Methylene Chloride	5.15	84	5652	0.13	ppbv #	93
22) trans-1,2-Dichloroethene	5.76	96	2372	0.05	ppbv #	78
24) 1,1-Dichloroethane	5.90	63	10802	0.10	ppbv #	87
25) Ethyl Acetate	6.65	43	9363	0.06	ppbv #	76
26) Hexane	6.66	57	12819	0.17	ppbv #	39
27) Carbon Disulfide	5.40	76	5022	0.04	ppbv #	50
30) Cyclohexane	8.28	84	4048	0.06	ppbv #	15
31) cis-1,2-Dichloroethene	6.51	61	90715	1.22	ppbv	99
32) 1,1,1-Trichloroethane	7.60	97	4866	0.03	ppbv	96
34) 2-Butanone	6.24	43	8126	0.09	ppbv	99
36) Benzene	8.03	78	6461	0.04	ppbv #	90
38) Trichloroethene	9.09	130	15934167	222.52	ppbv	90
39) 1,2-Dichloropropane	9.08	63	89884	1.58	ppbv #	1
42) Bromodichloromethane	9.09	83	314509	1.98	ppbv #	95
51) 2-Hexanone	11.93	43	26643	0.23	ppbv #	49
52) Tetrachloroethene	12.81	164	4666811	60.42	ppbv	98
74) 1,2,4-Trimethylbenzene	18.83	105	20639	0.05	ppbv #	74

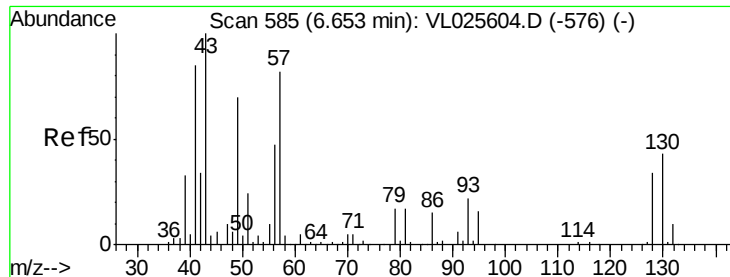
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
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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: VL025774.D

Acq: 28 Jul 2015 5:00

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDPOINT-072315

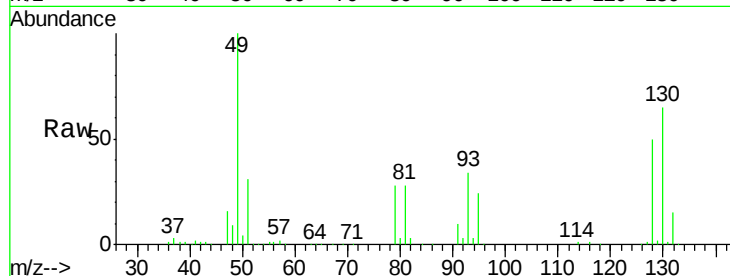
Tot Ion: 49 Resp: 592227

Ion Ratio Lower Upper

49 100

128 52.2 25.4 76.0

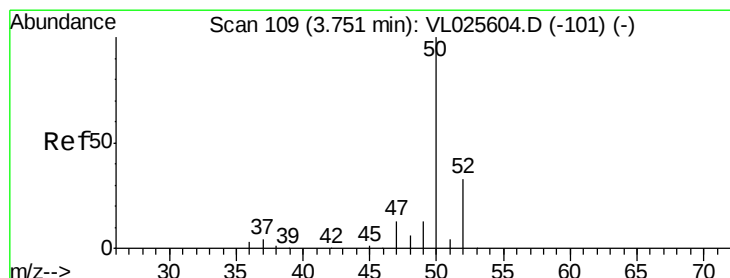
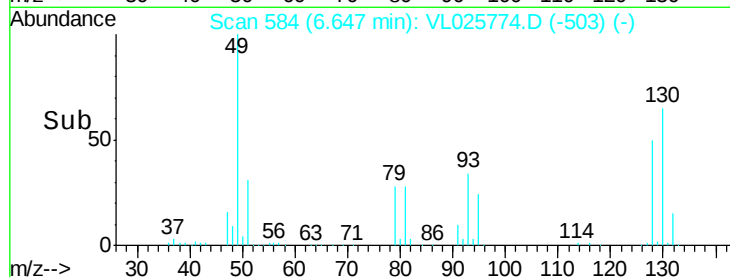
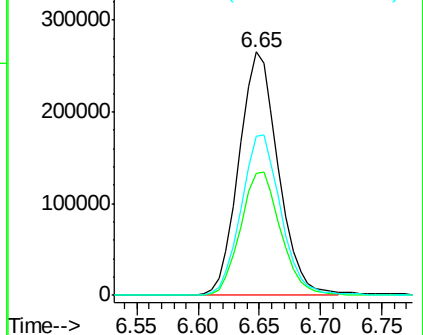
130 67.3 31.9 95.9



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



#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.75 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL025774.D

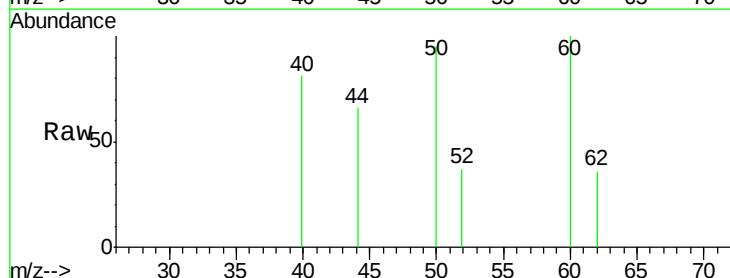
Acq: 28 Jul 2015 5:00

Tgt Ion: 50 Resp: 1704

Ion Ratio Lower Upper

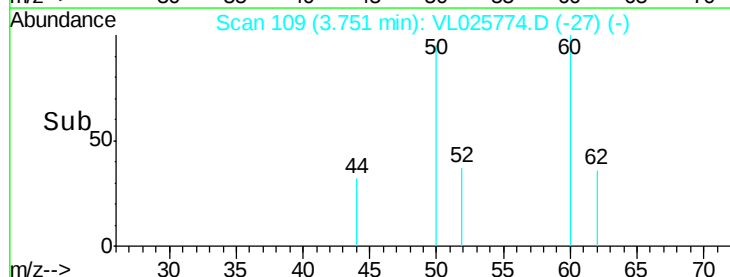
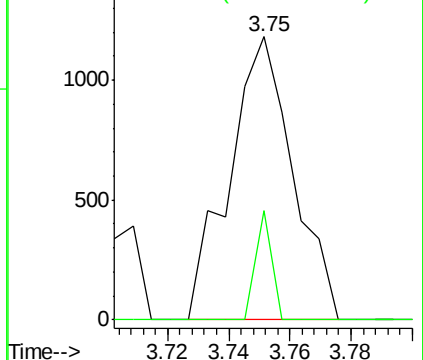
50 100

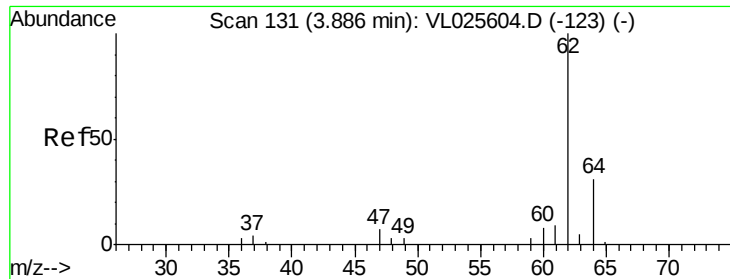
52 38.5 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.06 ppbv

RT: 3.89 min Scan# 131

Delta R.T. -0.00 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

Instrument :

MSVOA_L

ClientSampleId :

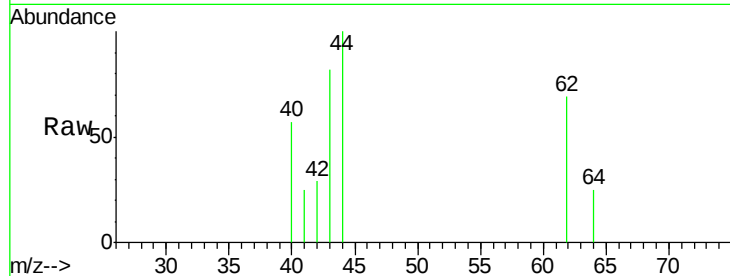
DIN46-MIDPOINT-072315

Tot Ion: 62 Resp: 2360

Ion Ratio Lower Upper

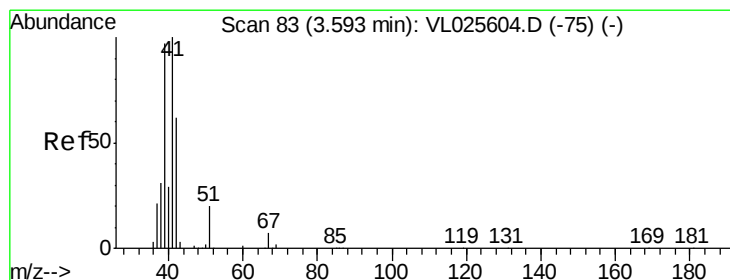
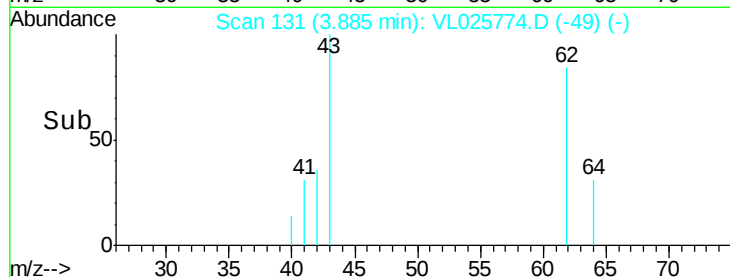
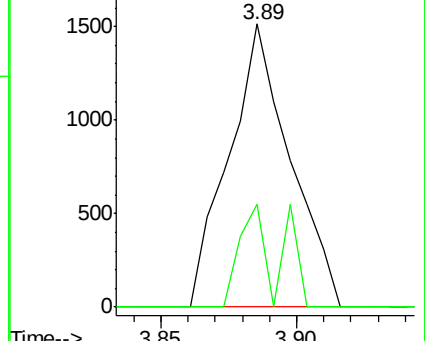
62 100

64 36.5 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: 0.14 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025774.D

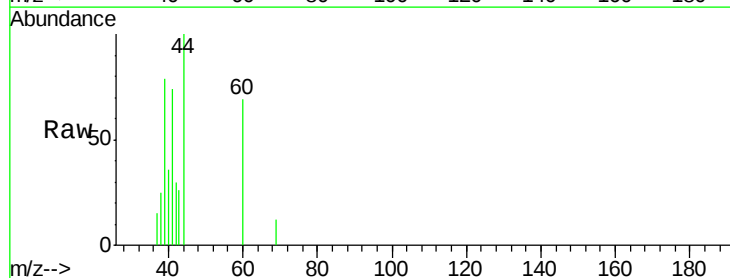
Acq: 28 Jul 2015 5:00

Tgt Ion: 41 Resp: 4018

Ion Ratio Lower Upper

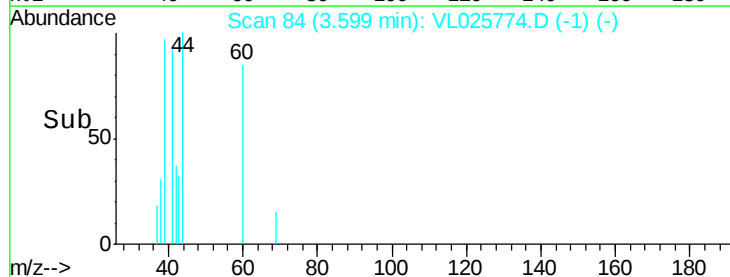
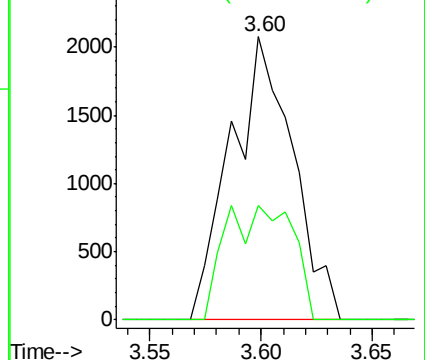
41 100

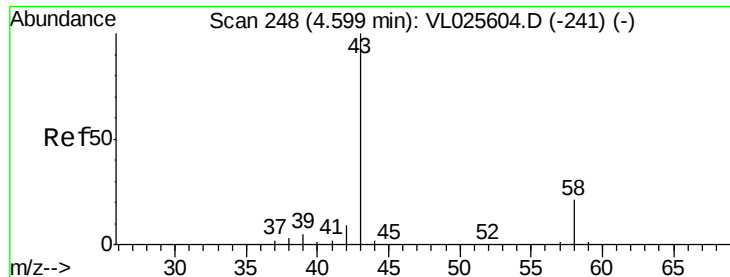
42 43.8 52.4 78.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 1.76 ppbv

RT: 4.62 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

Instrument :

MSVOA_L

ClientSampleId :

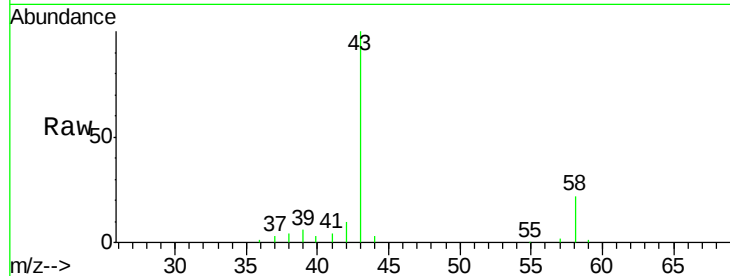
DIN46-MIDPOINT-072315

Tot Ion: 43 Resp: 183805

Ion Ratio Lower Upper

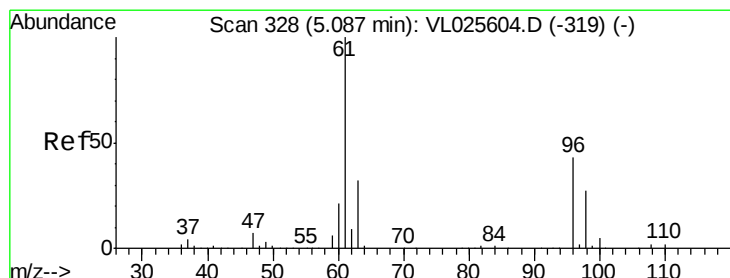
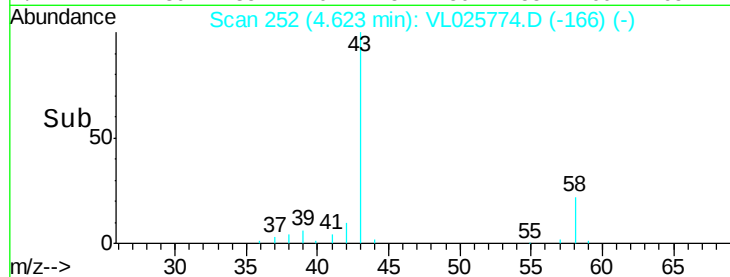
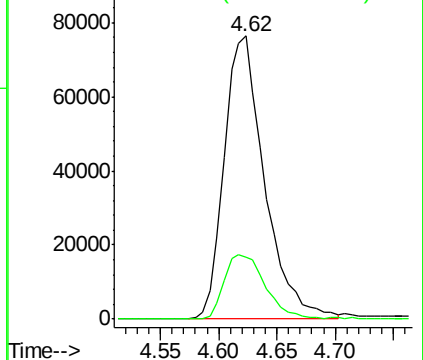
43 100

58 23.5 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.13 ppbv

RT: 5.09 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

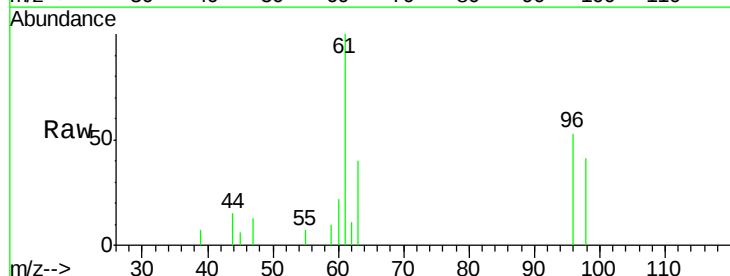
Tgt Ion: 96 Resp: 5877

Ion Ratio Lower Upper

96 100

61 187.1 184.1 276.1

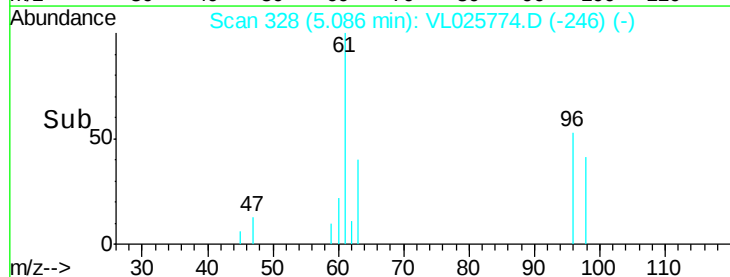
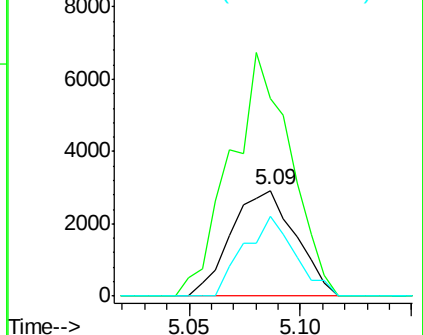
98 76.0 50.0 75.0#

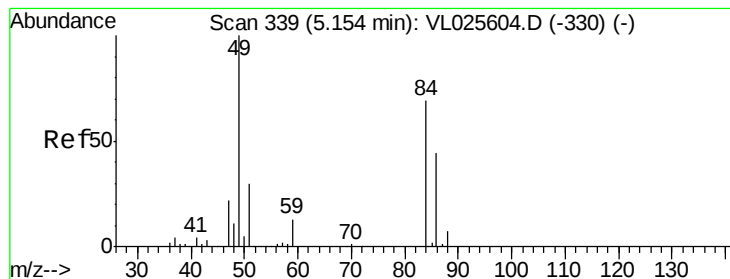


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#20

Methylene Chloride

Concen: 0.13 ppbv

RT: 5.15 min Scan# 339

Delta R.T. -0.00 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDPOINT-072315

Tot Ion: 84 Resp: 5652

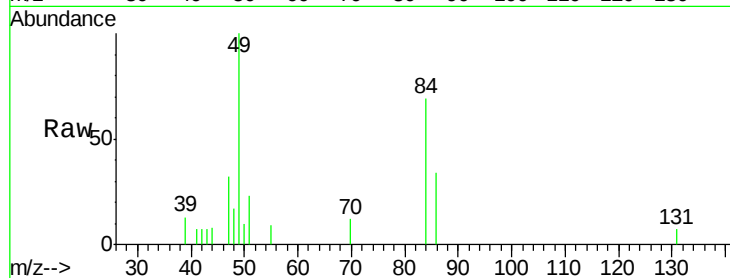
Ion Ratio Lower Upper

84 100

49 144.7 115.2 172.8

51 33.7 35.0 52.6#

86 49.8 50.6 76.0#

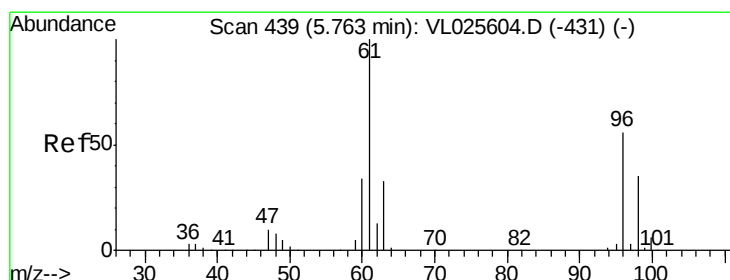
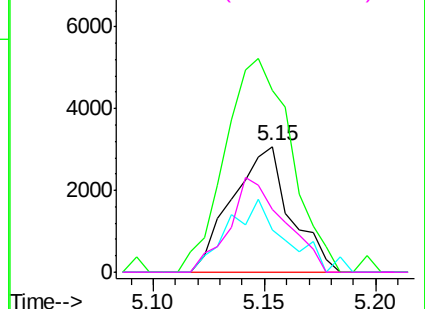
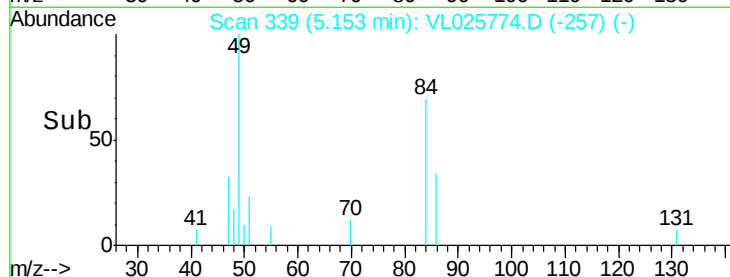


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#22

trans-1,2-Dichloroethene

Concen: 0.05 ppbv

RT: 5.76 min Scan# 438

Delta R.T. -0.01 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

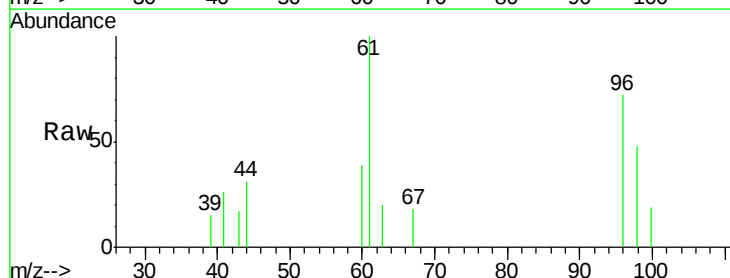
Tgt Ion: 96 Resp: 2372

Ion Ratio Lower Upper

96 100

61 138.2 141.8 212.6#

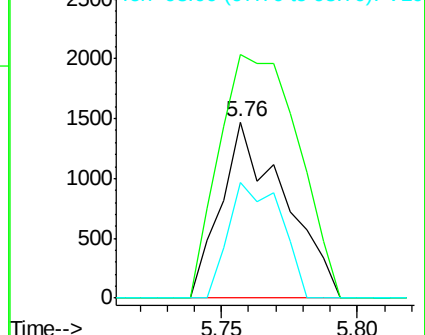
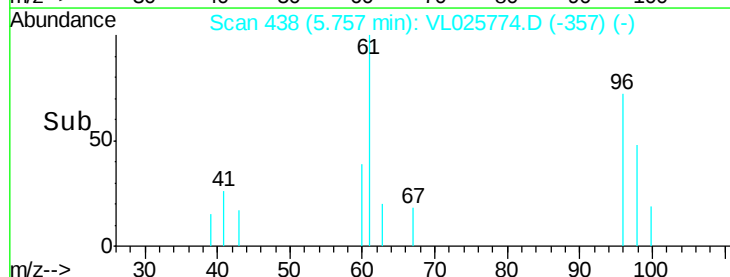
98 65.8 49.0 73.6

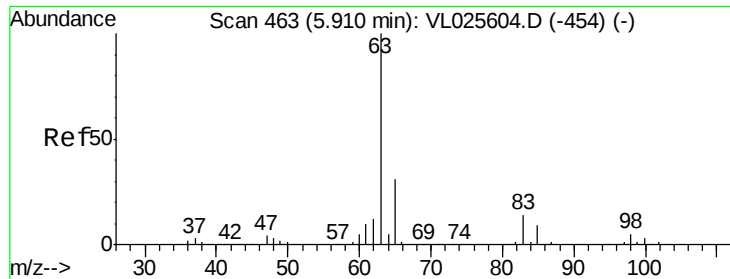


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

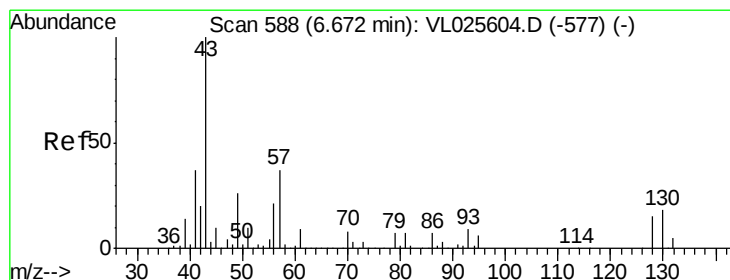
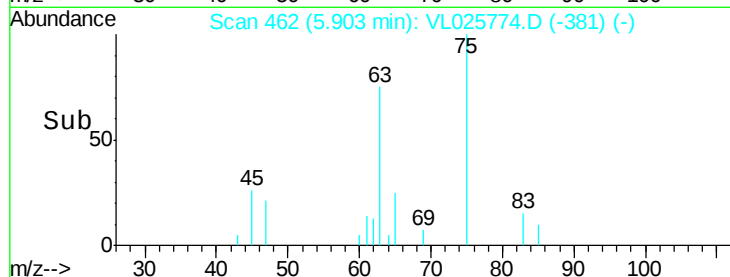
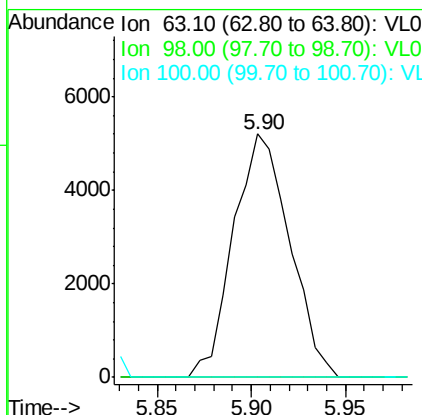
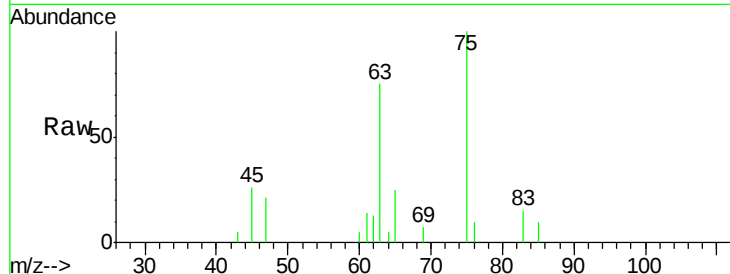




#24
 1,1-Dichloroethane
 Concen: 0.10 ppbv
 RT: 5.90 min Scan# 462
 Delta R.T. -0.01 min
 Lab File: VL025774.D
 Acq: 28 Jul 2015 5:00

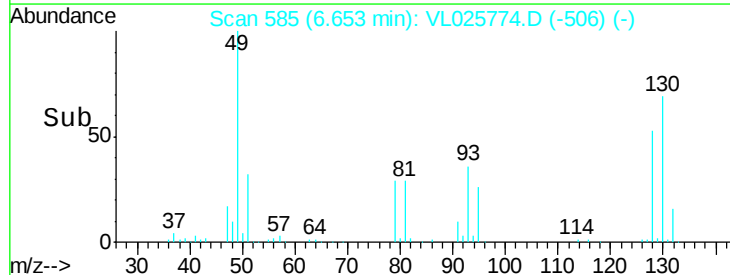
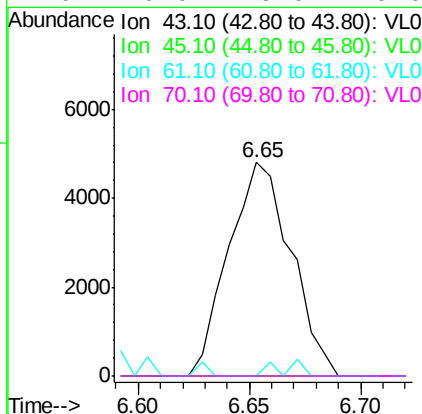
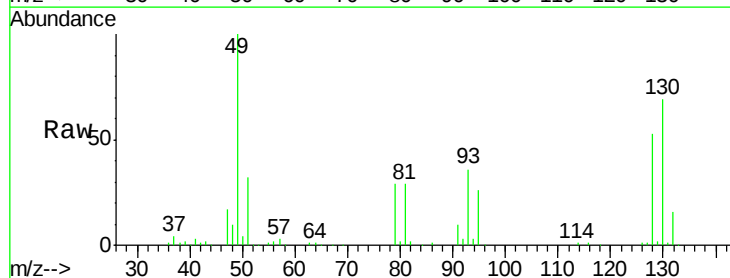
Instrument :
 MSVOA_L
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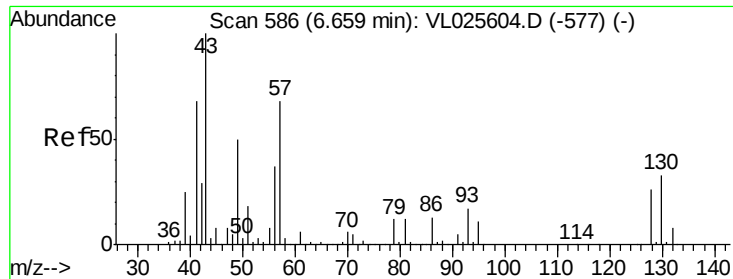
Tot Ion: 63 Resp: 10802
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.6 8.0#
 100 0.0 1.6 4.7#



#25
 Ethyl Acetate
 Concen: 0.06 ppbv
 RT: 6.65 min Scan# 585
 Delta R.T. -0.02 min
 Lab File: VL025774.D
 Acq: 28 Jul 2015 5:00

Tgt Ion: 43 Resp: 9363
 Ion Ratio Lower Upper
 43 100
 45 0.0 7.5 11.3#
 61 0.0 6.6 10.0#
 70 0.0 6.0 9.0#

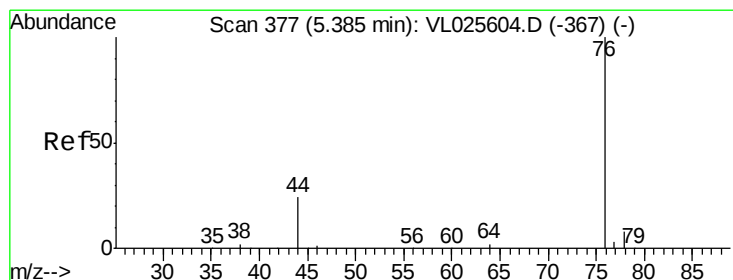
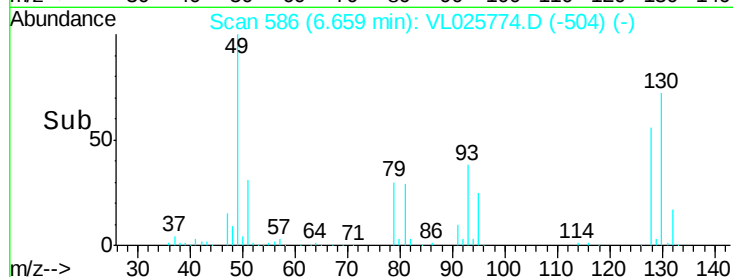
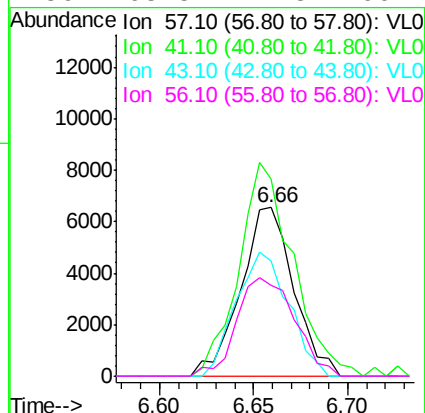
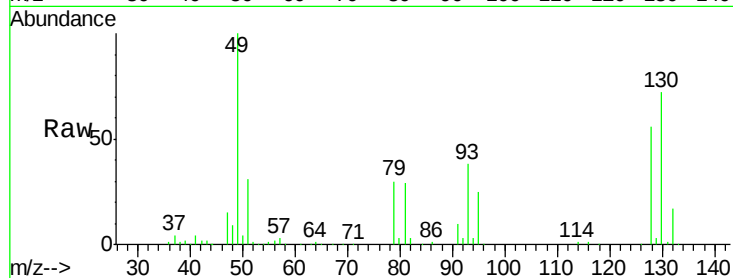




#26
Hexane
Concen: 0.17 ppbv
RT: 6.66 min Scan# 586
Delta R.T. -0.00 min
Lab File: VL025774.D
Acq: 28 Jul 2015 5:00

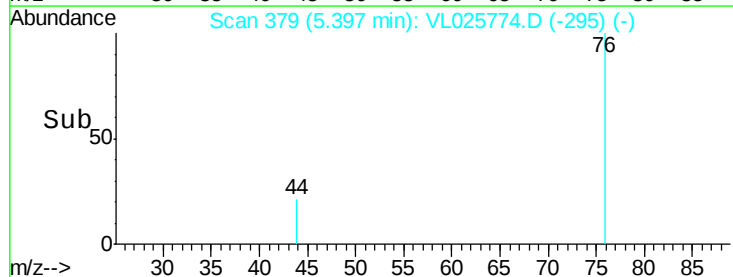
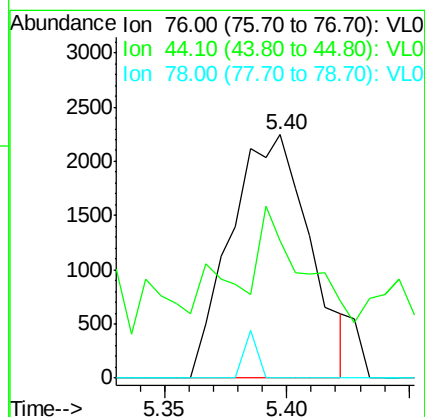
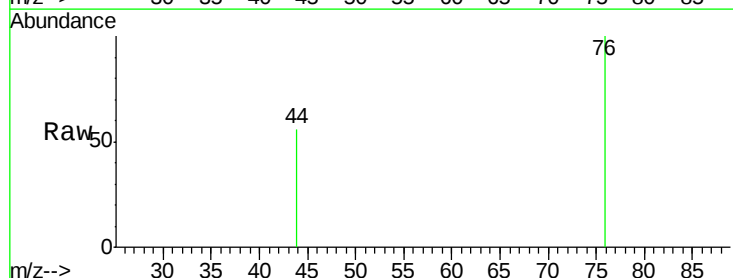
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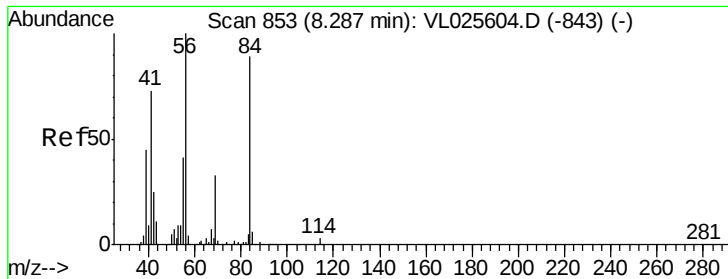
Tot Ion: 57 Resp: 12819
Ion Ratio Lower Upper
57 100
41 129.6 81.4 122.2#
43 73.0 171.4 257.2#
56 63.5 44.5 66.7



#27
Carbon Disulfide
Concen: 0.04 ppbv
RT: 5.40 min Scan# 379
Delta R.T. 0.01 min
Lab File: VL025774.D
Acq: 28 Jul 2015 5:00

Tgt Ion: 76 Resp: 5022
Ion Ratio Lower Upper
76 100
44 55.1 20.2 30.4#
78 0.0 7.4 11.2#

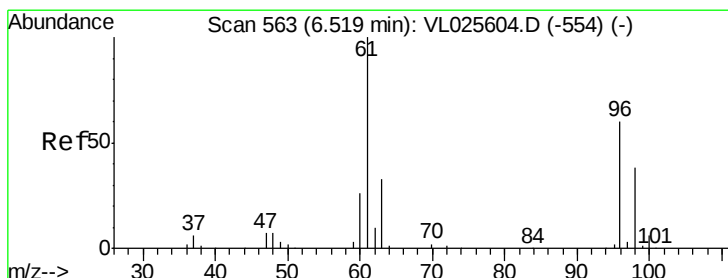
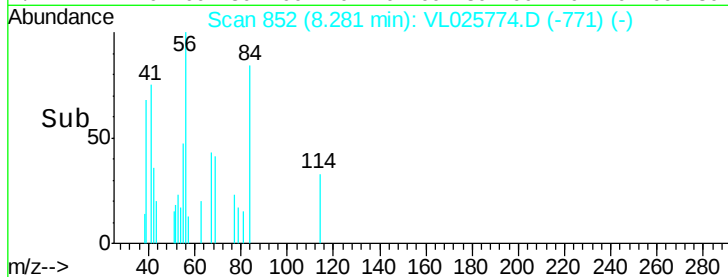
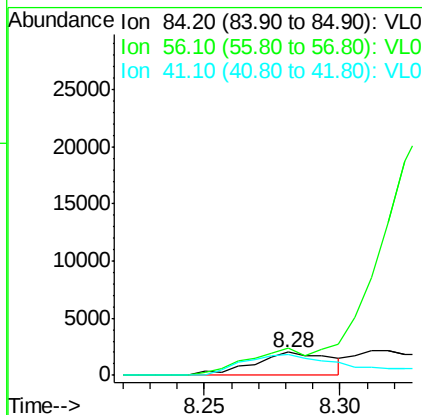
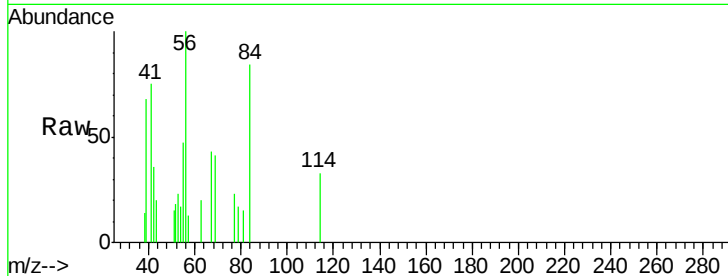




#30
Cvclohexane
Concen: 0.06 ppbv
RT: 8.28 min Scan# 852
Delta R.T. -0.01 min
Lab File: VL025774.D
Acq: 28 Jul 2015 5:00

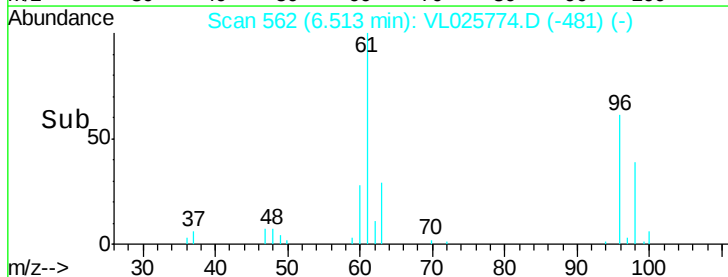
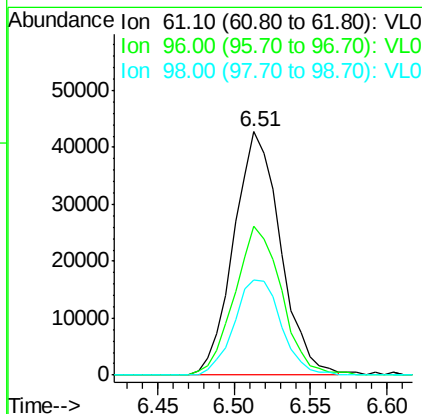
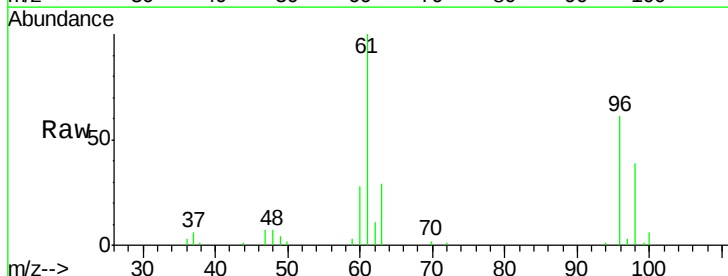
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDPOINT-072315

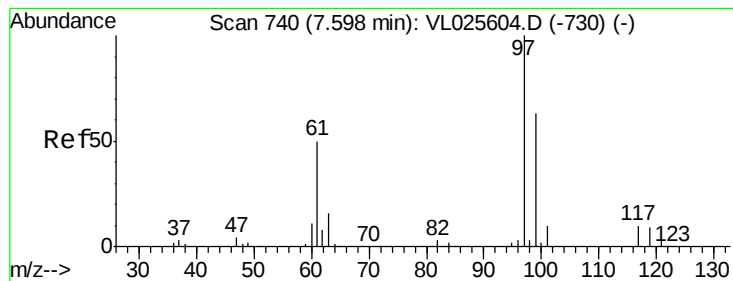
Tot Ion: 84 Resp: 4048
Ion Ratio Lower Upper
84 100
56 0.0 97.5 146.3#
41 125.2 65.4 98.2#



#31
cis-1,2-Dichloroethene
Concen: 1.22 ppbv
RT: 6.51 min Scan# 562
Delta R.T. -0.01 min
Lab File: VL025774.D
Acq: 28 Jul 2015 5:00

Tgt Ion: 61 Resp: 90715
Ion Ratio Lower Upper
61 100
96 60.9 48.1 72.1
98 39.3 30.7 46.1





#32

1,1,1-Trichloroethane

Concen: 0.03 ppbv

RT: 7.60 min Scan# 740

Delta R.T. -0.00 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDPOINT-072315

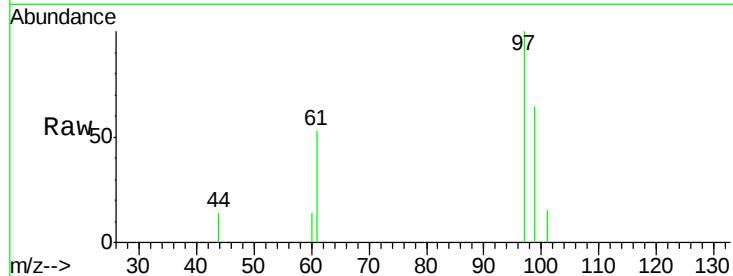
Tot Ion: 97 Resp: 4866

Ion Ratio Lower Upper

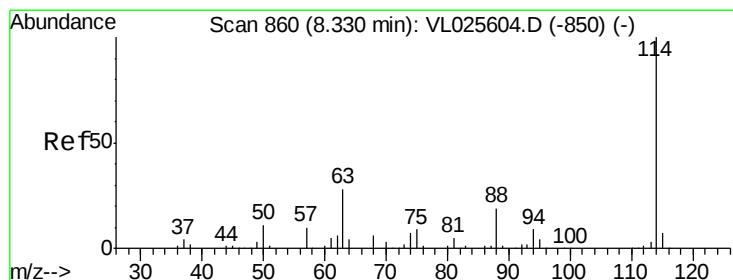
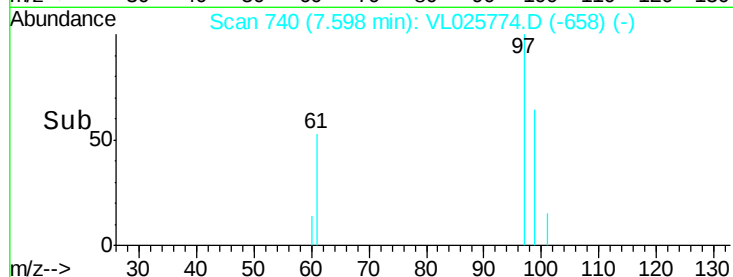
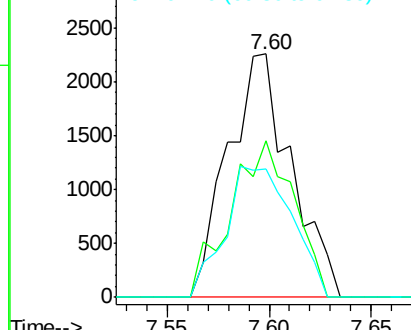
97 100

99 64.7 51.2 76.8

61 56.6 40.4 60.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.34 min Scan# 861

Delta R.T. 0.01 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

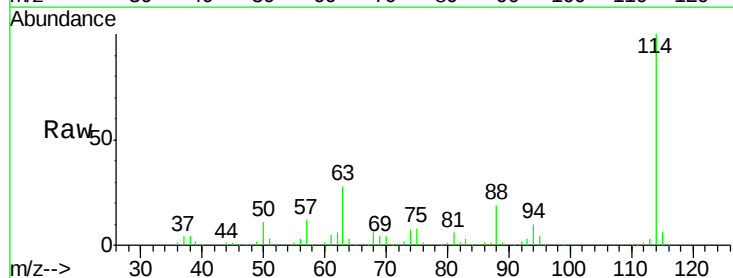
Tgt Ion: 114 Resp: 1608114

Ion Ratio Lower Upper

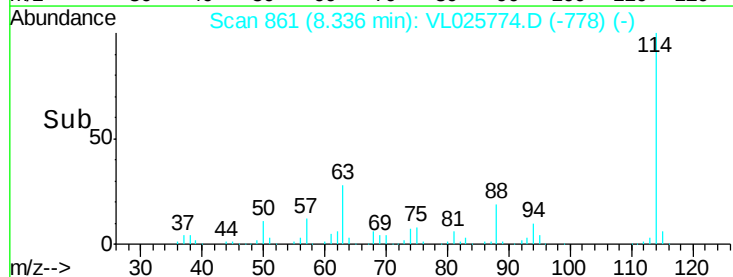
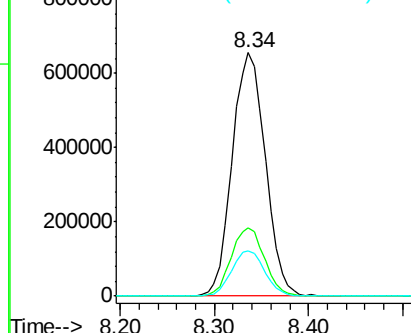
114 100

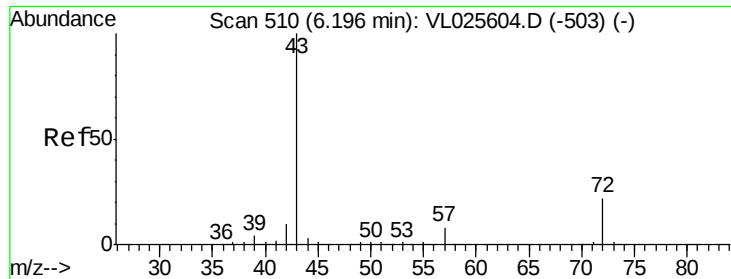
63 28.1 22.4 33.6

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

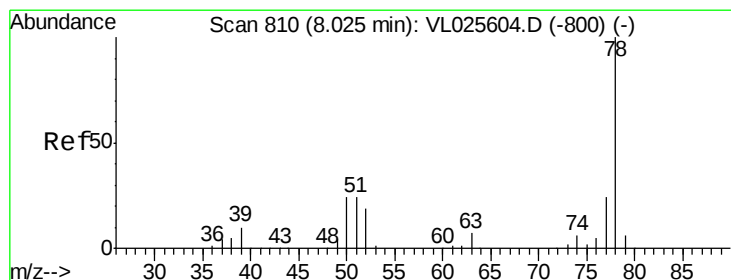
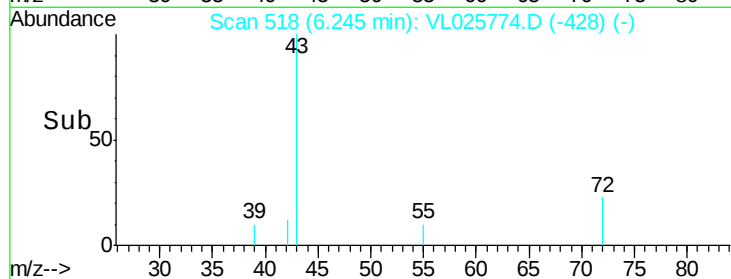
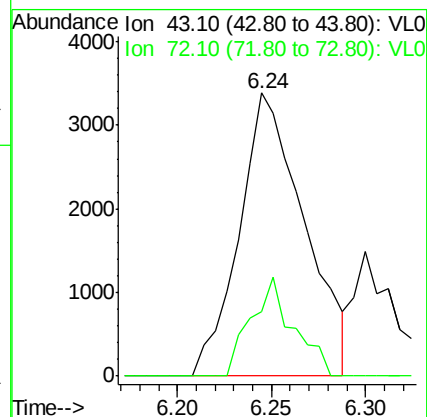
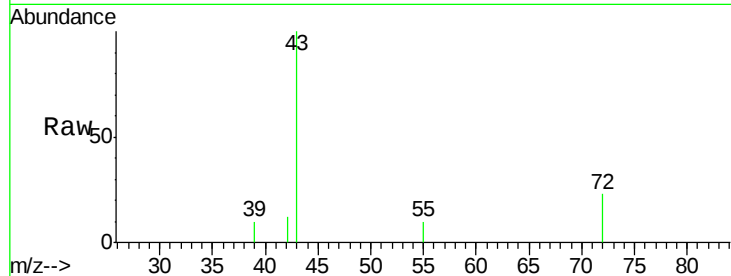




#34
2-Butanone
Concen: 0.09 ppbv
RT: 6.24 min Scan# 518
Delta R.T. 0.05 min
Lab File: VL025774.D
Acq: 28 Jul 2015 5:00

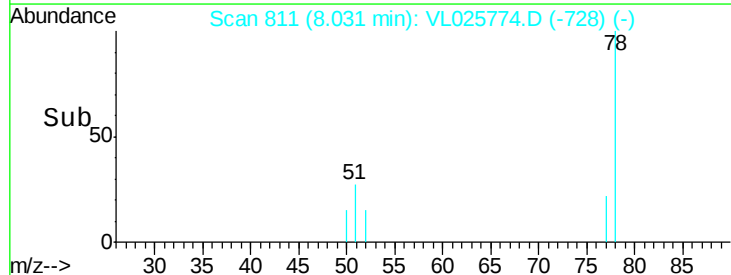
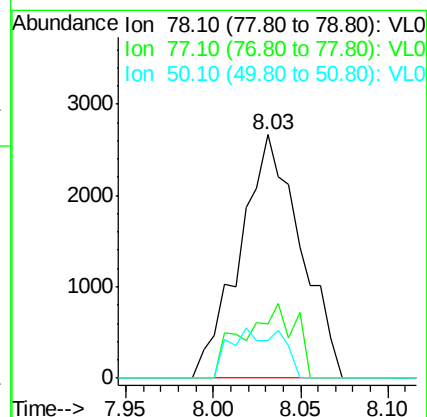
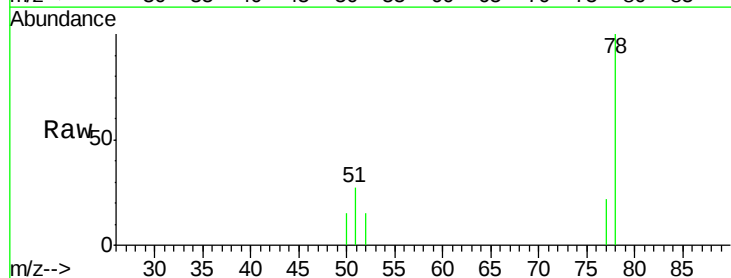
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDPOINT-072315

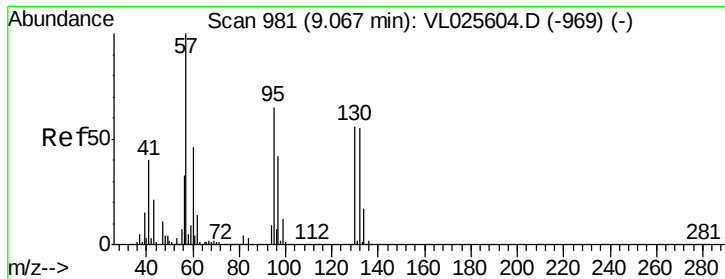
Tot Ion: 43 Resp: 8126
Ion Ratio Lower Upper
43 100
72 22.6 18.6 28.0



#36
Benzene
Concen: 0.04 ppbv
RT: 8.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VL025774.D
Acq: 28 Jul 2015 5:00

Tgt Ion: 78 Resp: 6461
Ion Ratio Lower Upper
78 100
77 22.3 19.0 28.4
50 15.5 19.2 28.8#

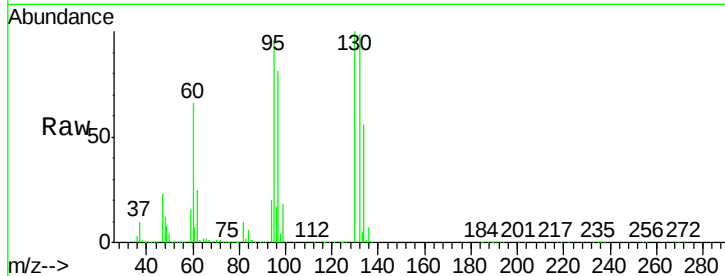




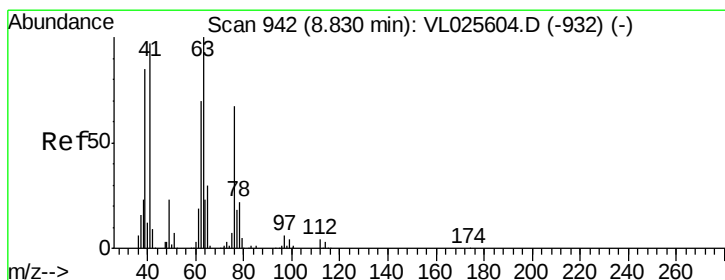
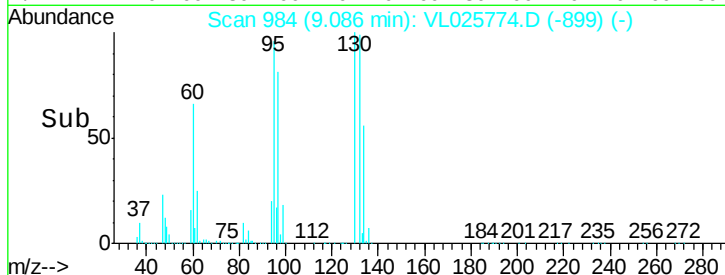
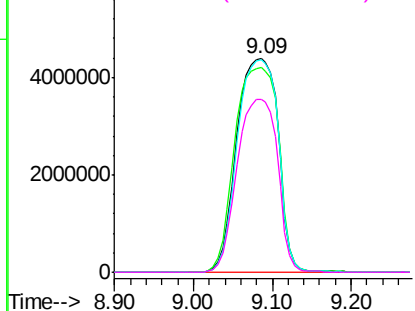
#38
 Trichloroethene
 Concen: 222.52 ppbv
 RT: 9.09 min Scan# 984
 Delta R.T. 0.02 min
 Lab File: VL025774.D
 Acq: 28 Jul 2015 5:00

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDPOINT-072315

Tot Ion:130 Resp:15934167
 Ion Ratio Lower Upper
 130 100
 95 96.2 94.2 141.4
 132 99.3 78.6 118.0
 97 81.1 60.6 90.8

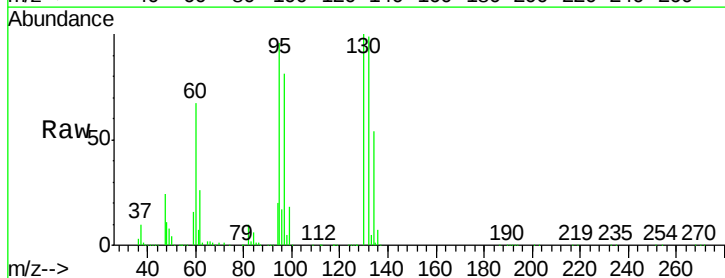


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

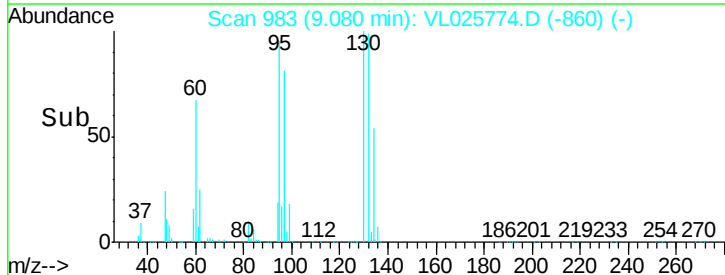
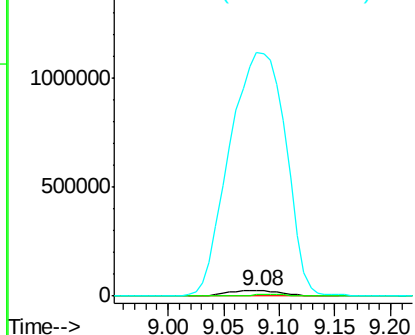


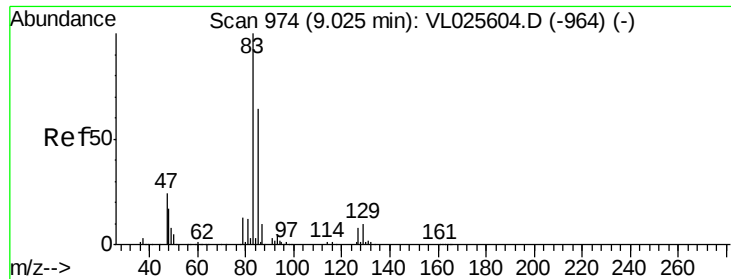
#39
 1,2-Dichloropropane
 Concen: 1.58 ppbv
 RT: 9.08 min Scan# 983
 Delta R.T. 0.25 min
 Lab File: VL025774.D
 Acq: 28 Jul 2015 5:00

Tgt Ion: 63 Resp: 89884
 Ion Ratio Lower Upper
 63 100
 41 21.9 78.0 117.0#
 62 4423.9 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: 1.98 ppbv

RT: 9.09 min Scan# 984

Delta R.T. 0.06 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDPOINT-072315

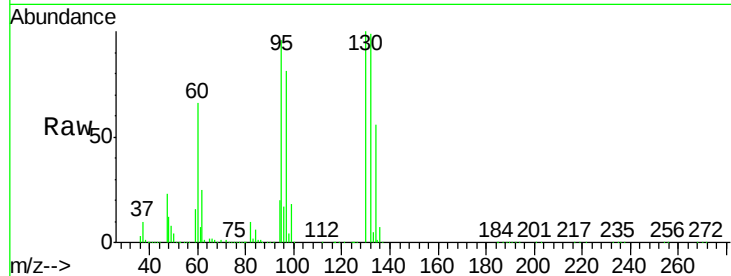
Tot Ion: 83 Resp: 314509

Ion Ratio Lower Upper

83 100

85 66.8 51.3 76.9

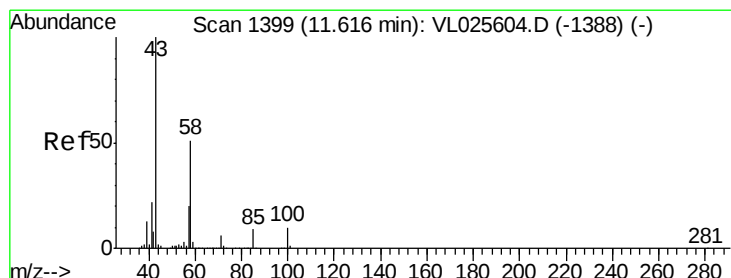
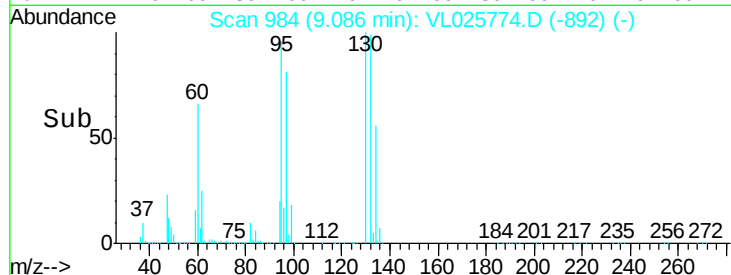
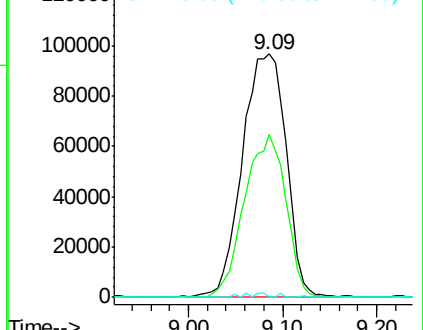
127 0.0 6.0 9.0#



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): VL0



#51

2-Hexanone

Concen: 0.23 ppbv

RT: 11.93 min Scan# 1451

Delta R.T. 0.32 min

Lab File: VL025774.D

Acq: 28 Jul 2015 5:00

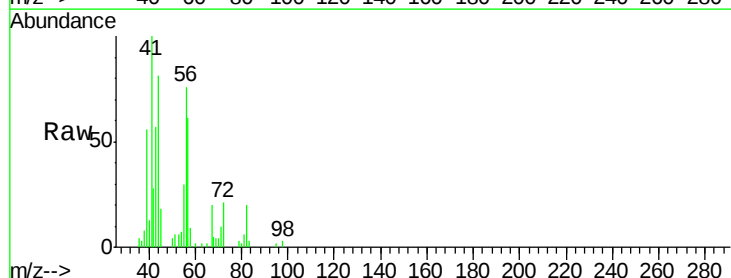
Tgt Ion: 43 Resp: 26643

Ion Ratio Lower Upper

43 100

58 13.8 39.0 58.6#

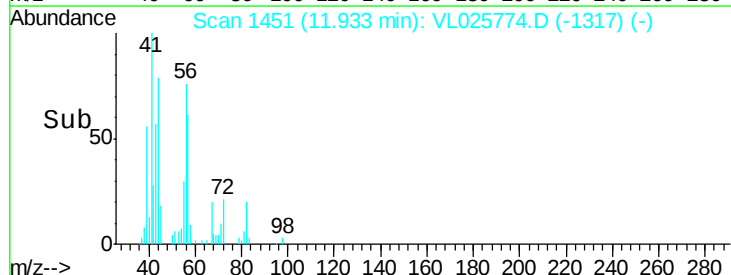
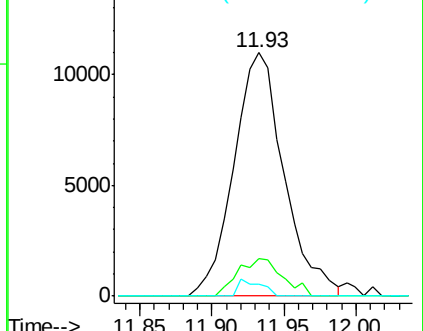
98 3.1 0.2 0.4#

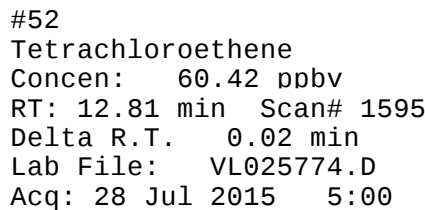


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

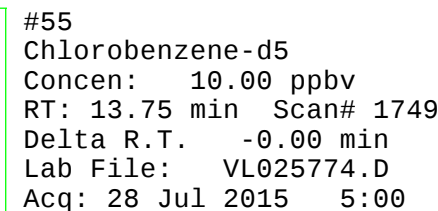
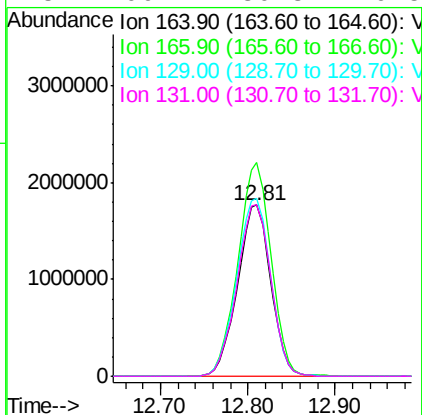
Ion 98.20 (97.90 to 98.90): VL0



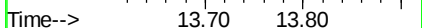
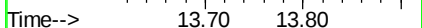
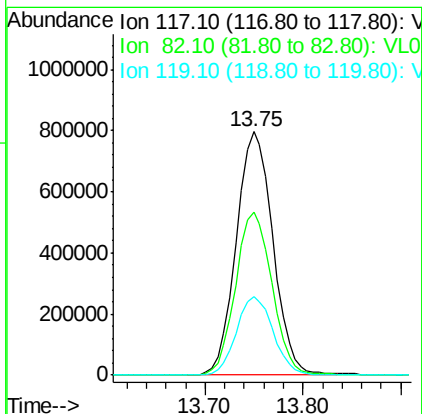


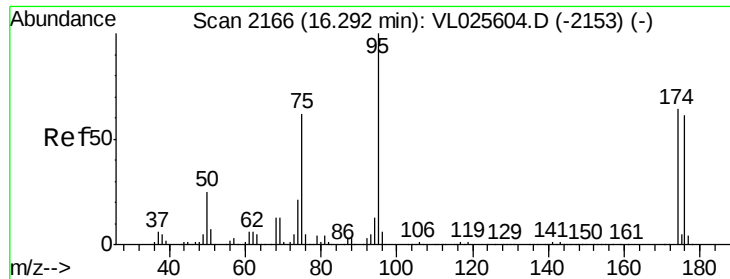
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDPOINT-072315

Tat	Ion:164	Resp:	4666811
Ion	Ratio	Lower	Upper
164	100		
166	124.6	102.3	153.5
129	103.8	86.2	129.4
131	100.2	80.3	120.5



Tgt	Ion:117	Resp:	2075639
Ion	Ratio	Lower	Upper
117	100		
82	67.0	50.5	75.7
119	32.6	45.1	67.7#

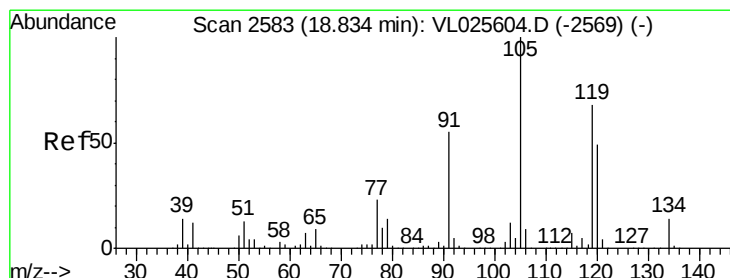
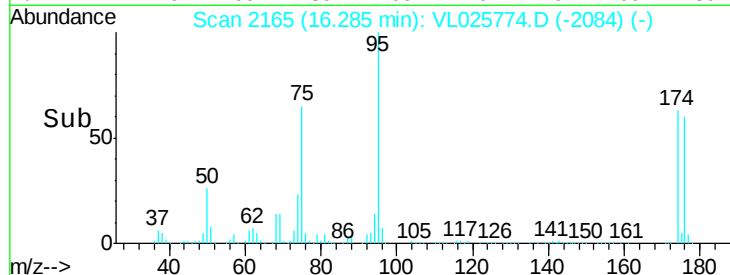
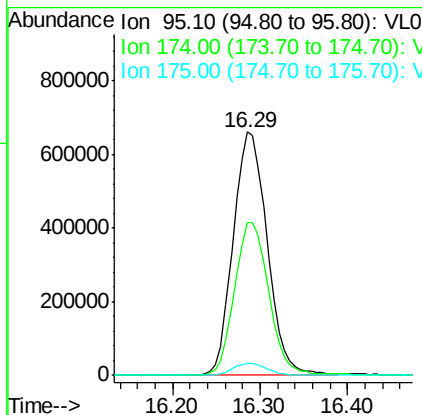
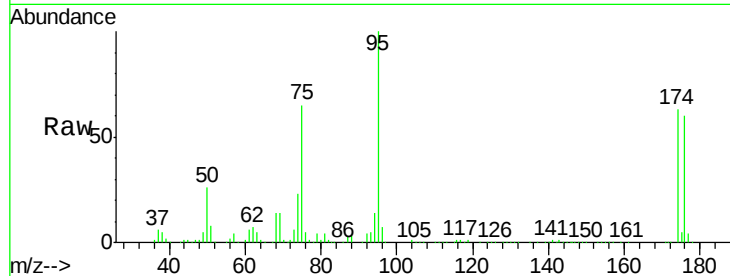




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.23 ppbv
 RT: 16.29 min Scan# 2165
 Delta R.T. -0.01 min
 Lab File: VL025774.D
 Acq: 28 Jul 2015 5:00

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDPOINT-072315

Tot Ion: 95 Resp: 1790759
 Ion Ratio Lower Upper
 95 100
 174 63.8 52.0 78.0
 175 4.8 3.9 5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.05 ppbv
 RT: 18.83 min Scan# 2583
 Delta R.T. -0.00 min
 Lab File: VL025774.D
 Acq: 28 Jul 2015 5:00

Tgt Ion: 105 Resp: 20639
 Ion Ratio Lower Upper
 105 100
 120 46.4 39.3 58.9
 91 13.5 43.8 65.6#
 77 22.9 18.3 27.5

