

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL073115\
 Data File : VL025814.D
 Acq On : 31 Jul 2015 15:48
 Operator : SY/MD
 Sample : G3144-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Quant Time: Aug 03 04:39:43 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	570763	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	8.36	114	1538955	10.00	ppbv	0.03
55) Chlorobenzene-d5	13.98	117	2069315	10.00	ppbv	0.23

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.43	95	1826560	10.46	ppbv	0.13
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.65	85	17864	0.12	ppbv	96
3) Chlorodifluoromethane	3.55	51	310552	3.86	ppbv #	57
4) Chloromethane	3.76	50	12094	0.33	ppbv	89
5) Vinyl Chloride	3.89	62	1741	0.04	ppbv	90
7) Chloroethane	3.91	64	1424	0.08	ppbv #	45
9) Propene	3.61	41	37836	1.42	ppbv	89
10) Heptane	9.39	43	63726	0.61	ppbv #	25
11) Trichlorofluoromethane	4.70	101	49840	0.26	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	5.32	101	9343	0.08	ppbv	91
13) Ethanol	4.34	45	62167	14.96	ppbv	92
15) Acetone	4.62	43	1228883	12.19	ppbv	94
16) 1,3-Butadiene	4.01	39	34723	0.87	ppbv #	12
17) tert-Butyl alcohol	5.16	59	16735	0.20	ppbv #	69
18) 1,1-Dichloroethene	5.10	96	3825	0.09	ppbv #	59
19) Isopropyl Alcohol	4.77	45	104774	2.60	ppbv #	96
20) Methylene Chloride	5.16	84	209487	5.11	ppbv	96
21) Allyl Chloride	5.18	41	9954	0.16	ppbv #	51
22) trans-1,2-Dichloroethene	5.78	96	83894	1.95	ppbv	97
23) Vinyl Acetate	6.02	43	63778	0.42	ppbv #	71
25) Ethyl Acetate	6.71	43	80855	0.53	ppbv #	69
26) Hexane	6.67	57	53972	0.75	ppbv #	85
27) Carbon Disulfide	5.40	76	17536	0.15	ppbv #	53
29) Chloroform	6.77	83	33550	0.24	ppbv	99
30) Cyclohexane	8.32	84	5666	0.08	ppbv #	1
31) cis-1,2-Dichloroethene	6.54	61	12715116	178.09	ppbv #	57
32) 1,1,1-Trichloroethane	7.63	97	175810	1.14	ppbv	97
34) 2-Butanone	6.23	43	1583405	18.13	ppbv	100
35) Carbon Tetrachloride	8.20	117	11199	0.07	ppbv	90
36) Benzene	8.06	78	35484	0.24	ppbv	94
37) 1,2-Dichloroethane	7.40	62	7214	0.06	ppbv #	68
38) Trichloroethene	9.12	130	19405563	283.17	ppbv	89
39) 1,2-Dichloropropane	8.87	63	3907	0.07	ppbv #	1
41) Tetrahydrofuran	7.15	42	2035317	46.69	ppbv	98
42) Bromodichloromethane	9.11	83	404947	2.67	ppbv #	96
44) 2,2,4-Trimethylpentane	9.13	57	103668	0.41	ppbv #	72
50) 4-Methyl-2-Pentanone	10.13	43	75491	0.60	ppbv	96
51) 2-Hexanone	11.66	43	5627	0.05	ppbv #	1
52) Tetrachloroethene	12.96	164	42356795	572.98	ppbv	88
53) Toluene	11.28	91	712517	3.44	ppbv	86
57) Chlorobenzene	14.04	112	157297	0.71	ppbv	99
58) Ethyl Benzene	14.61	91	298049	0.87	ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

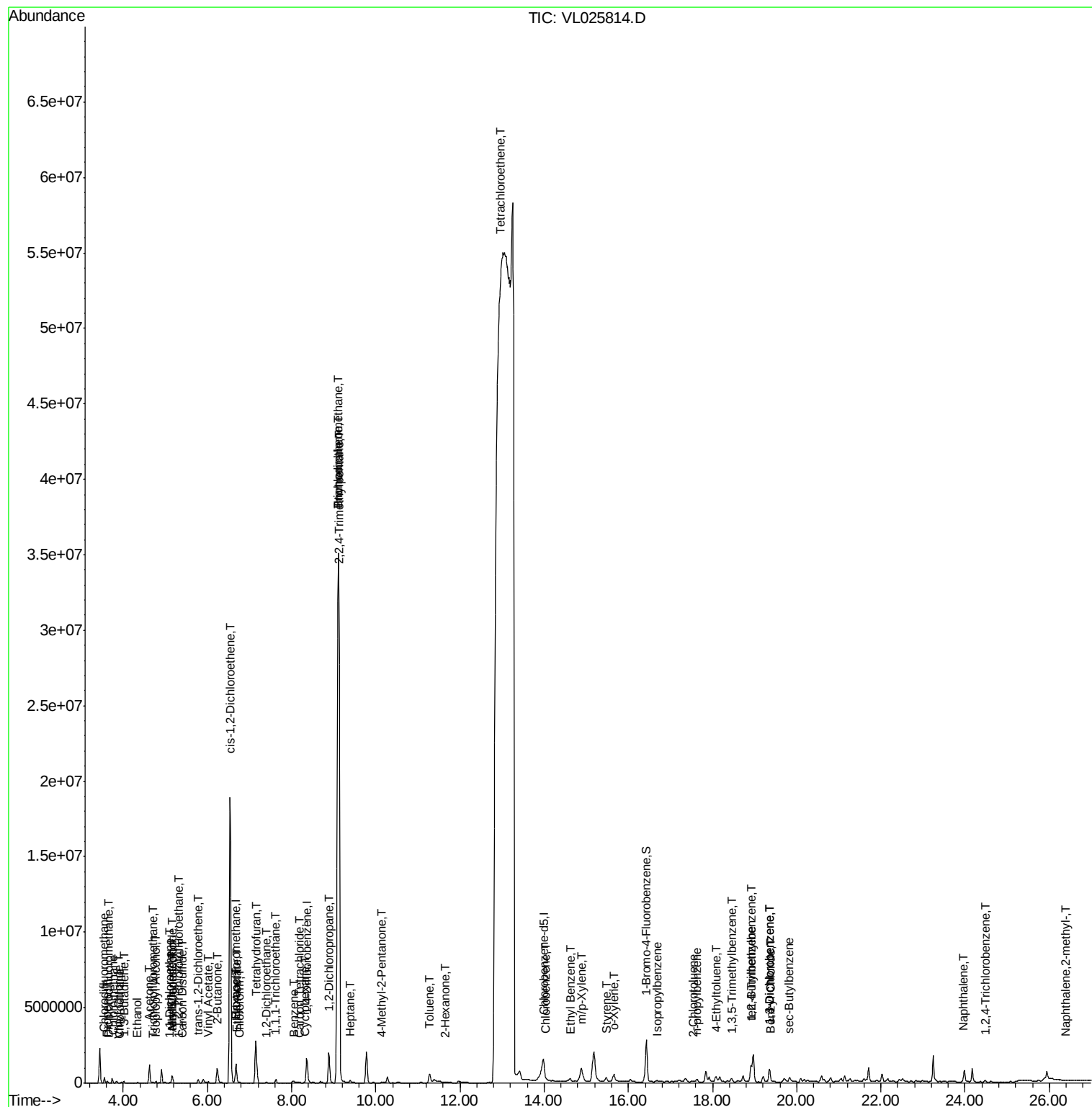
59) m/p-Xylene	14.88	91	1233444	4.11	ppbv	98
60) o-Xylene	15.66	91	543070	1.68	ppbv	100
61) Styrene	15.48	104	75145	0.66	ppbv	97
62) Isopropylbenzene	16.68	105	51530	0.12	ppbv	98
64) n-propylbenzene	17.63	120	43338	0.38	ppbv	72
65) tert-Butylbenzene	18.91	119	147074	0.35	ppbv #	91
66) Benzyl Chloride	19.39	91	17512	0.12	ppbv #	67
67) sec-Butylbenzene	19.83	105	210346	0.36	ppbv #	65
71) 2-Chlorotoluene	17.54	91	19018	0.06	ppbv	93
72) 4-Ethyltoluene	18.08	105	318835	0.89	ppbv #	81
73) 1,3,5-Trimethylbenzene	18.45	105	258832	0.74	ppbv #	74
74) 1,2,4-Trimethylbenzene	18.91	105	995858	2.53	ppbv #	68
75) 1,3-Dichlorobenzene	19.35	146	546935	2.13	ppbv	98
76) 1,4-Dichlorobenzene	19.35	146	546935	2.13	ppbv	98
79) Naphthalene	23.96	128	148553	0.39	ppbv	97
80) Naphthalene, 2-methyl-	26.39	142	14099	0.13	ppbv #	80
81) 1,2,4-Trichlorobenzene	24.48	180	32668	0.18	ppbv #	12

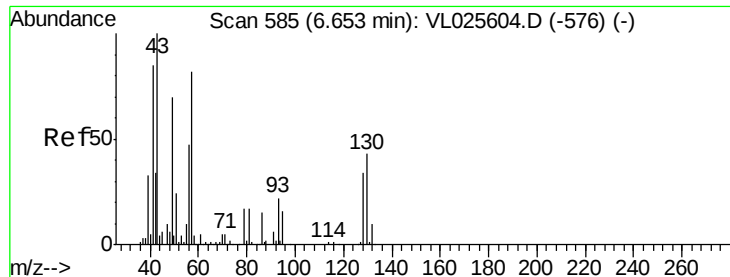
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 589

Delta R.T. 0.02 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

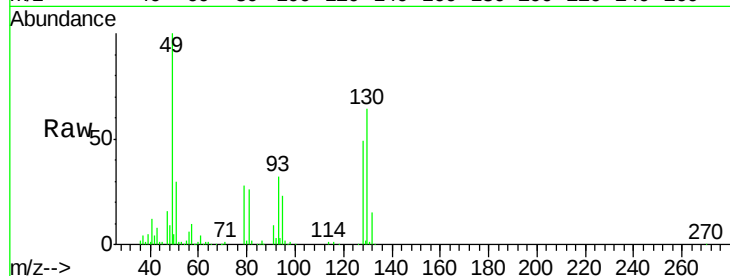
Tgt Ion: 49 Resp: 570763

Ion Ratio Lower Upper

49 100

128 51.2 25.4 76.0

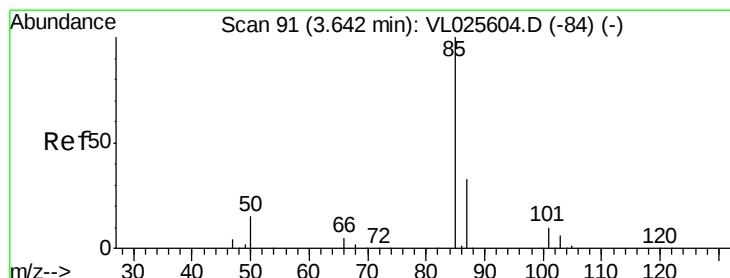
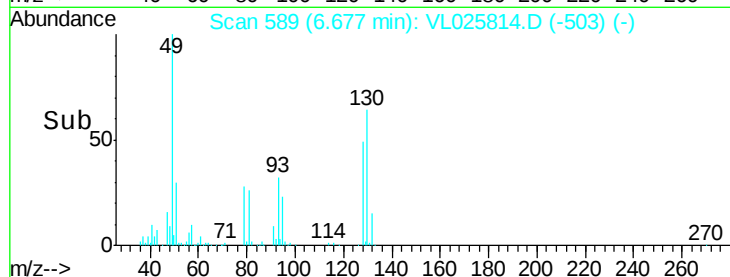
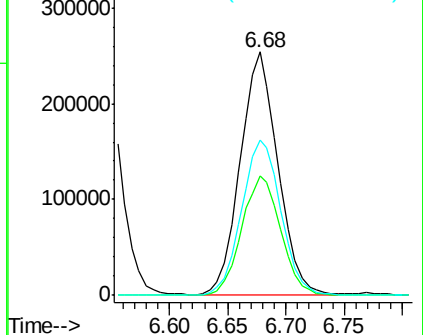
130 67.0 31.9 95.9



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



#2

Dichlorodifluoromethane

Concen: 0.12 ppbv

RT: 3.65 min Scan# 92

Delta R.T. 0.01 min

Lab File: VL025814.D

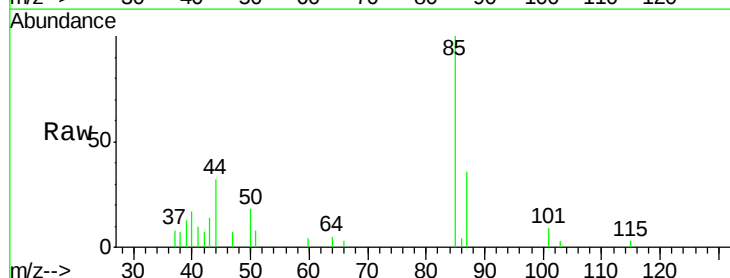
Acq: 31 Jul 2015 15:48

Tgt Ion: 85 Resp: 17864

Ion Ratio Lower Upper

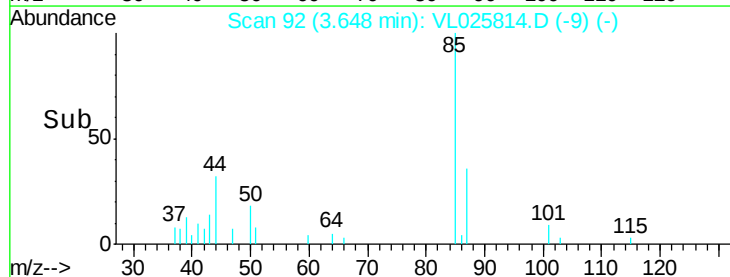
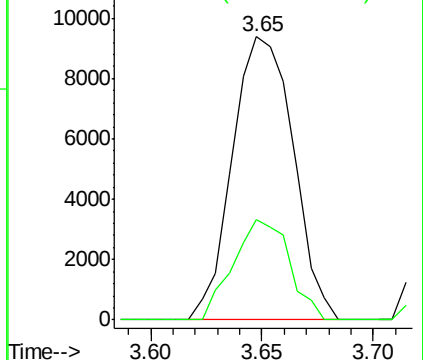
85 100

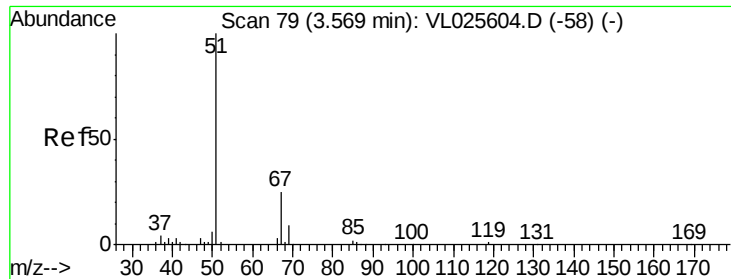
87 35.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

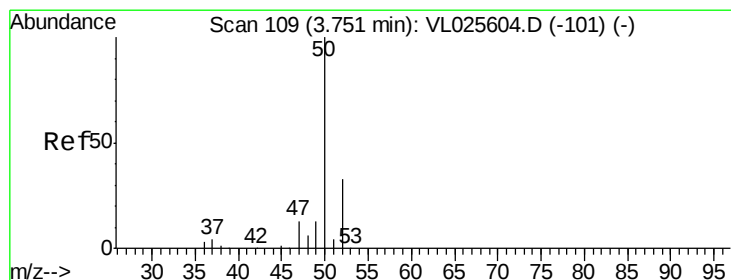
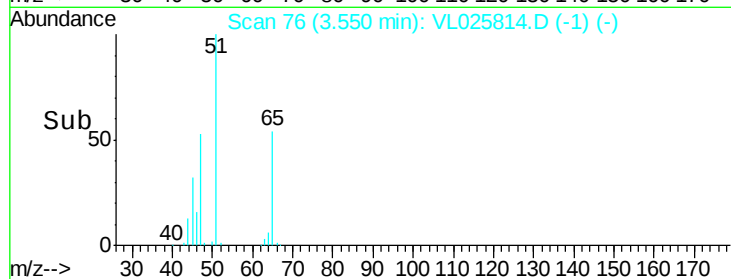
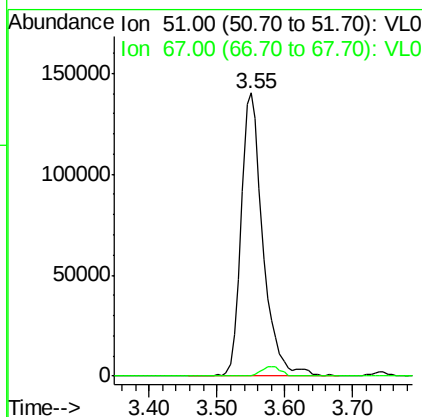
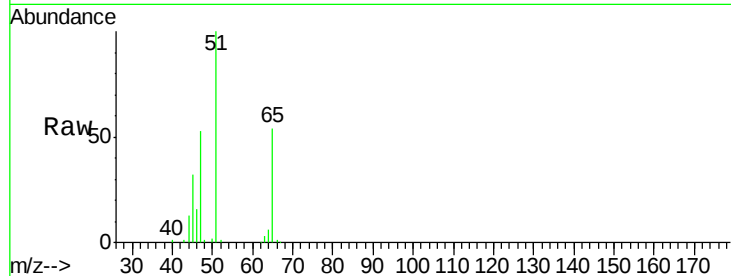




#3
 Chlorodifluoromethane
 Concen: 3.86 ppbv
 RT: 3.55 min Scan# 76
 Delta R.T. -0.02 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

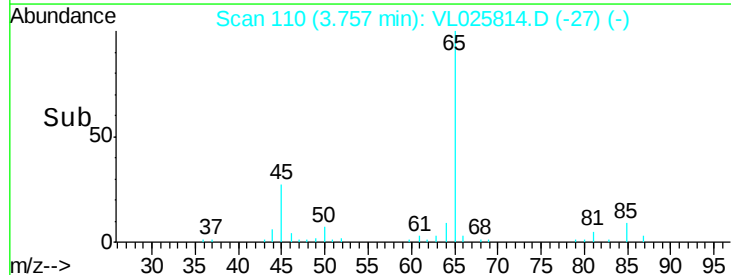
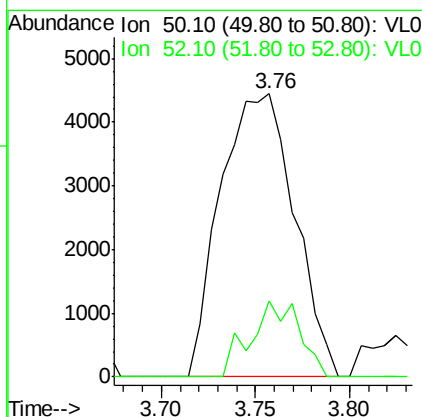
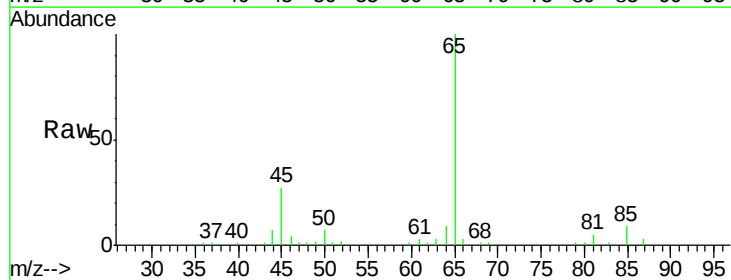
Instrument :
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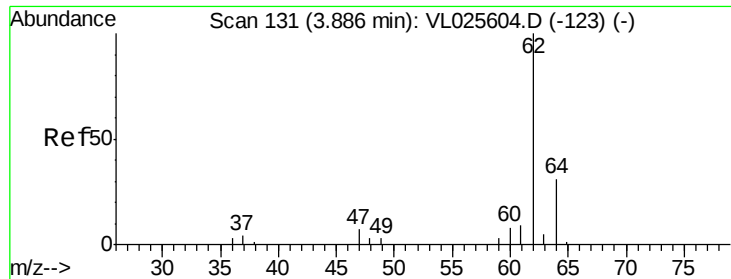
Tgt Ion: 51 Resp: 310552
 Ion Ratio Lower Upper
 51 100
 67 3.1 19.5 29.3#



#4
 Chloromethane
 Concen: 0.33 ppbv
 RT: 3.76 min Scan# 110
 Delta R.T. 0.01 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Tgt Ion: 50 Resp: 12094
 Ion Ratio Lower Upper
 50 100
 52 26.7 26.2 39.2





#5

Vinyl Chloride

Concen: 0.04 ppbv

RT: 3.89 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

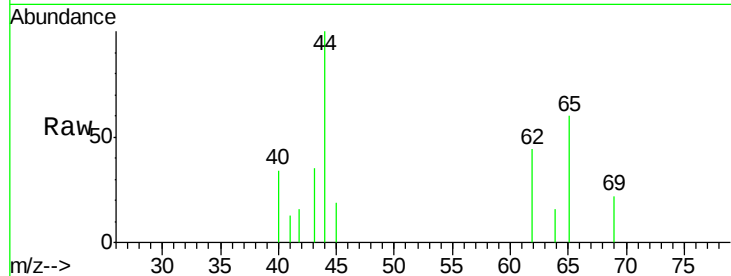
INFLUENT

Tgt Ion: 62 Resp: 1741

Ion Ratio Lower Upper

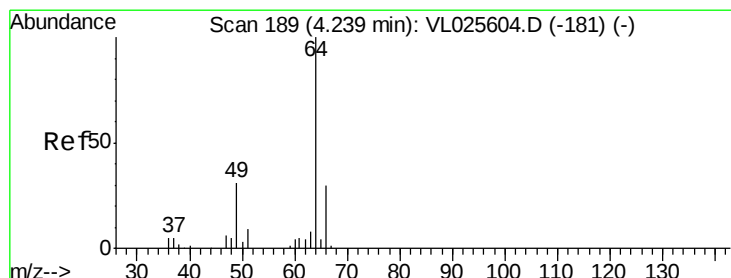
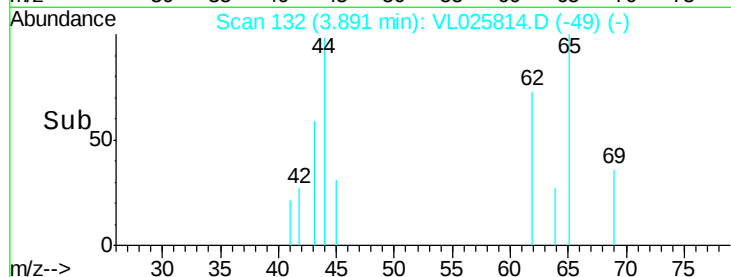
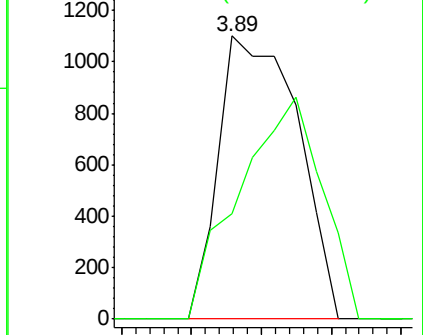
62 100

64 37.1 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 0.08 ppbv

RT: 3.91 min Scan# 135

Delta R.T. -0.33 min

Lab File: VL025814.D

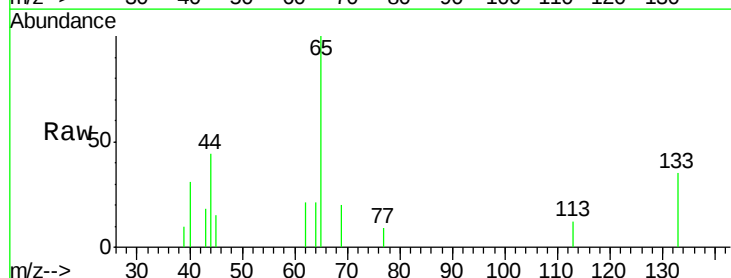
Acq: 31 Jul 2015 15:48

Tgt Ion: 64 Resp: 1424

Ion Ratio Lower Upper

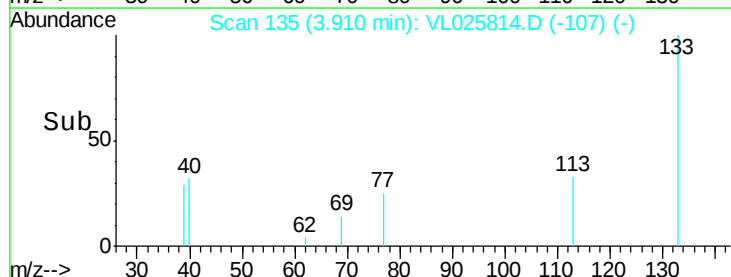
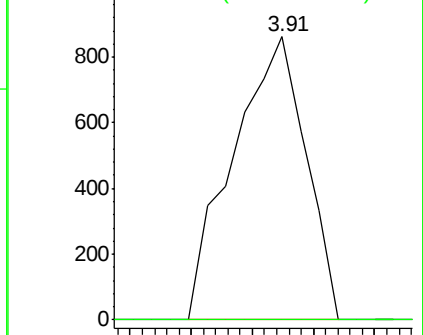
64 100

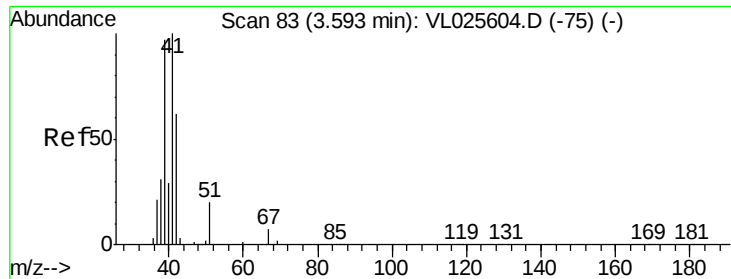
66 0.0 23.8 35.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 1.42 ppbv

RT: 3.61 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

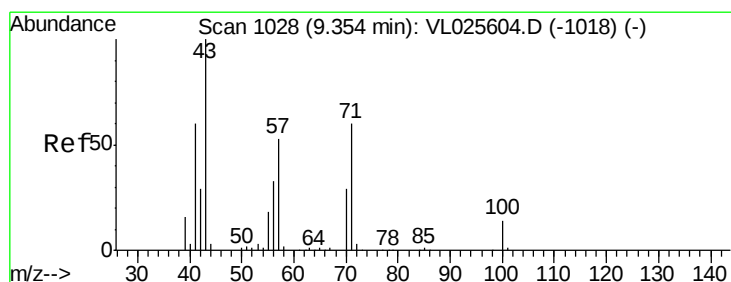
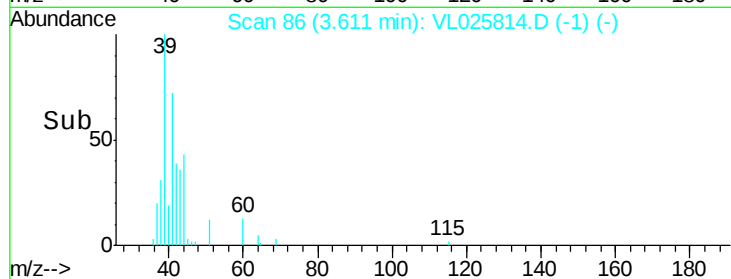
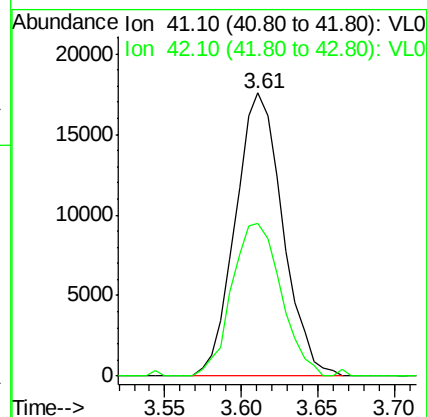
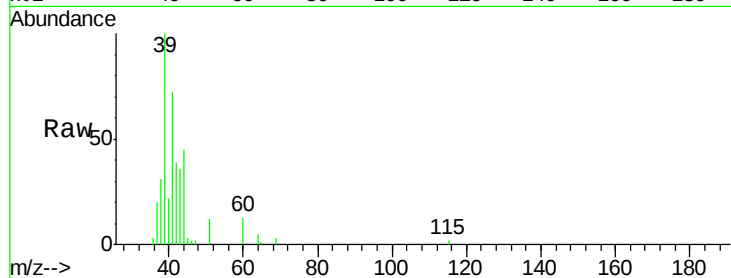
INFLUENT

Tgt Ion: 41 Resp: 37836

Ion Ratio Lower Upper

41 100

42 56.7 52.4 78.6



#10

Heptane

Concen: 0.61 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. 0.04 min

Lab File: VL025814.D

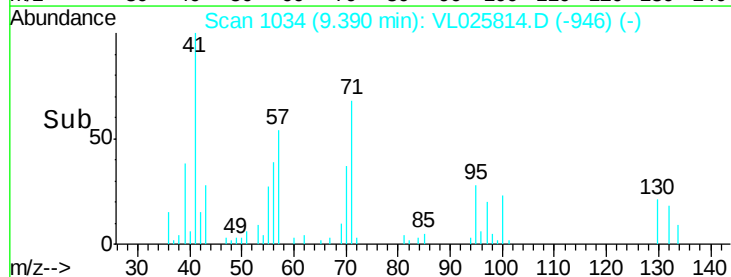
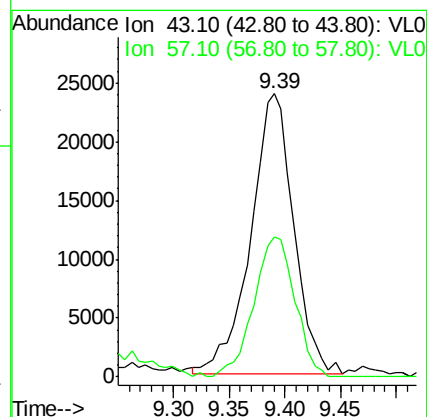
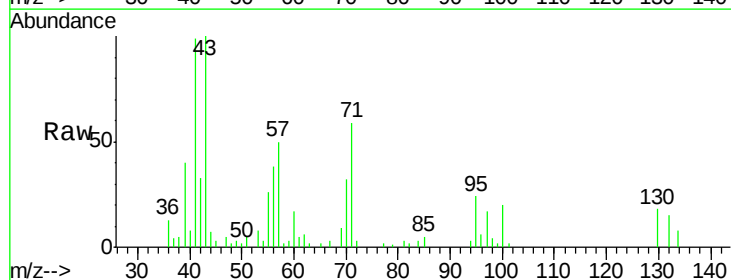
Acq: 31 Jul 2015 15:48

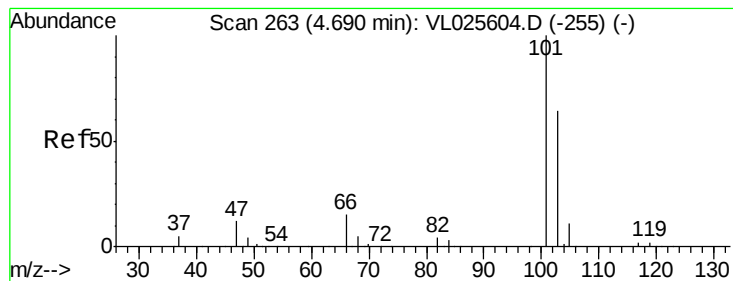
Tgt Ion: 43 Resp: 63726

Ion Ratio Lower Upper

43 100

57 0.0 42.6 64.0#





#11

Trichlorofluoromethane

Concen: 0.26 ppbv

RT: 4.70 min Scan# 265

Delta R.T. 0.01 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

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ClientSampleId :

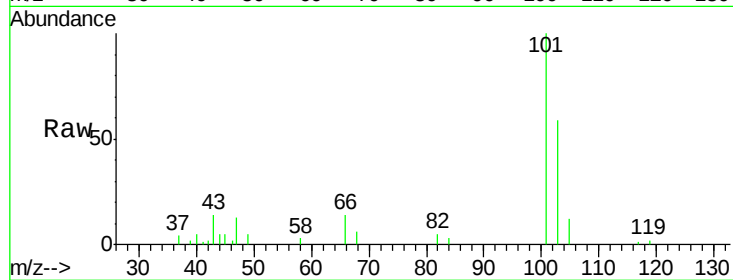
INFLUENT

Tgt Ion:101 Resp: 49840

Ion Ratio Lower Upper

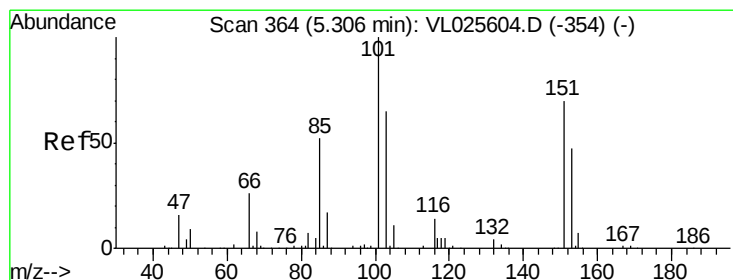
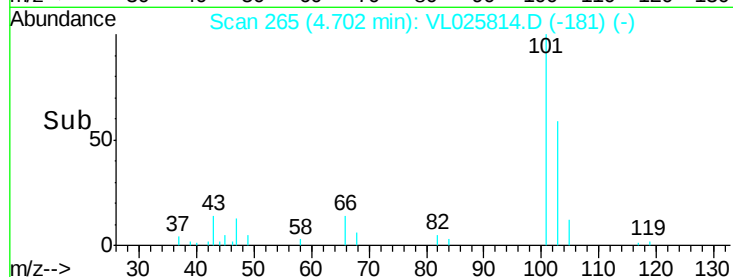
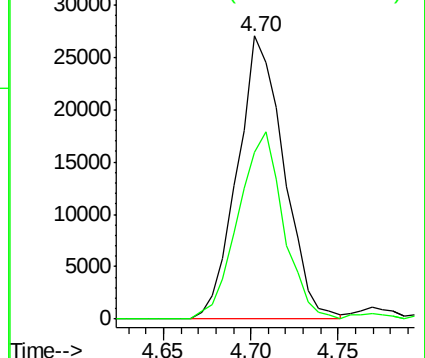
101 100

103 59.0 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.08 ppbv

RT: 5.32 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL025814.D

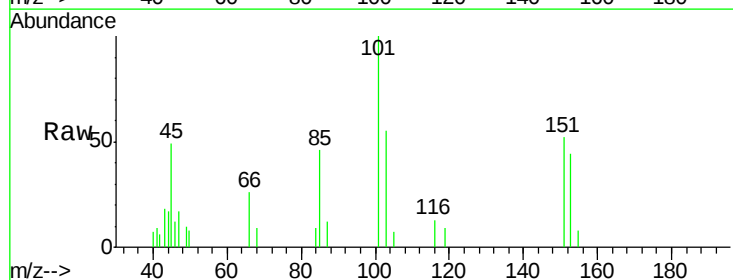
Acq: 31 Jul 2015 15:48

Tgt Ion:101 Resp: 9343

Ion Ratio Lower Upper

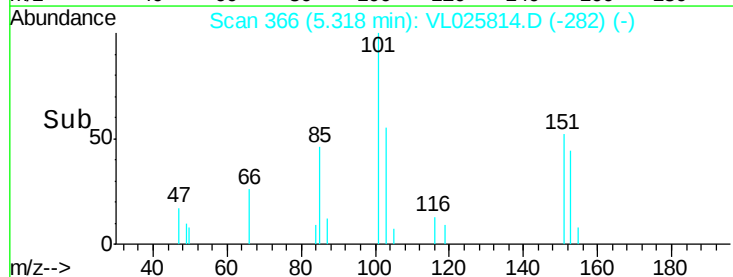
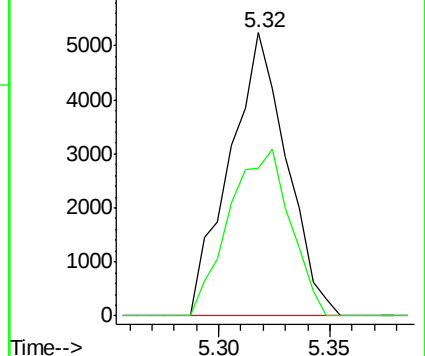
101 100

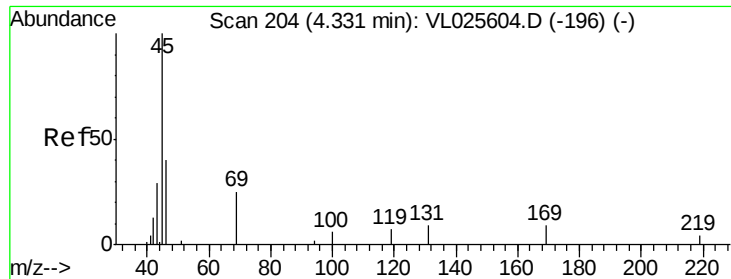
151 62.8 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 14.96 ppbv

RT: 4.34 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

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ClientSampleId :

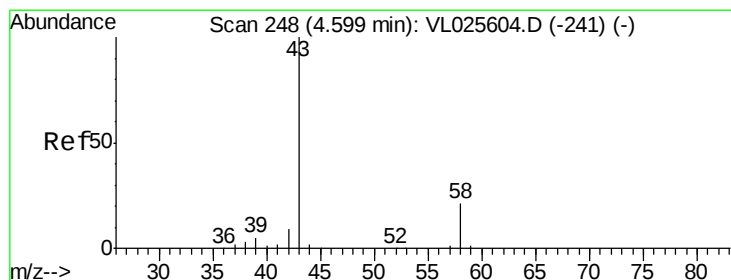
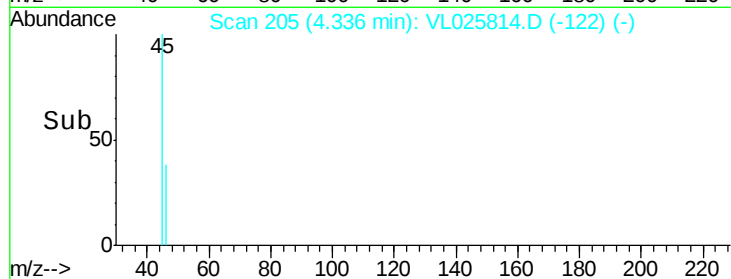
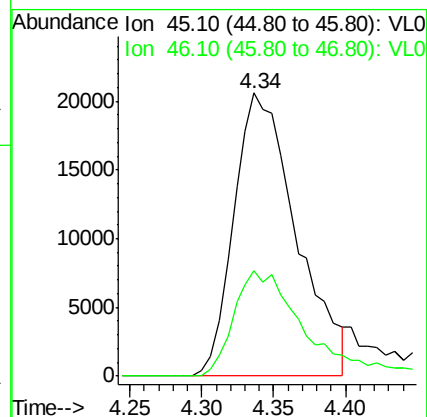
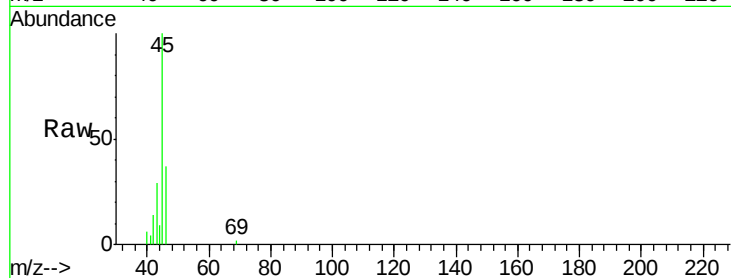
INFLUENT

Tgt Ion: 45 Resp: 62167

Ion Ratio Lower Upper

45 100

46 44.8 16.0 64.0



#15

Acetone

Concen: 12.19 ppbv

RT: 4.62 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL025814.D

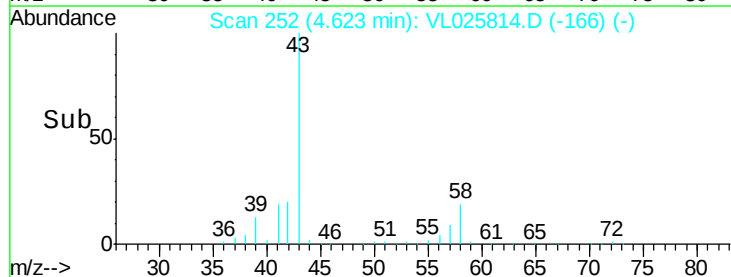
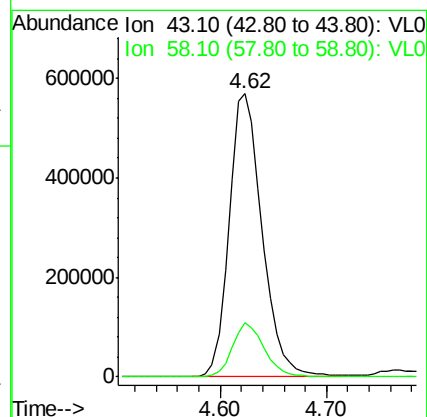
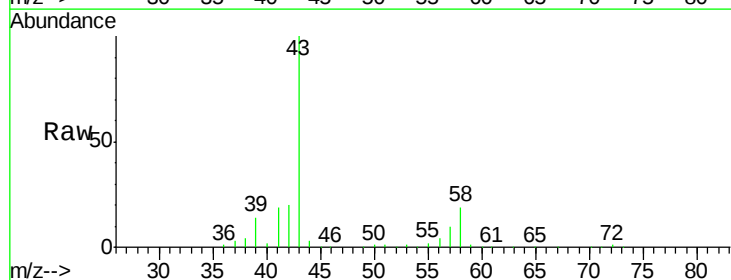
Acq: 31 Jul 2015 15:48

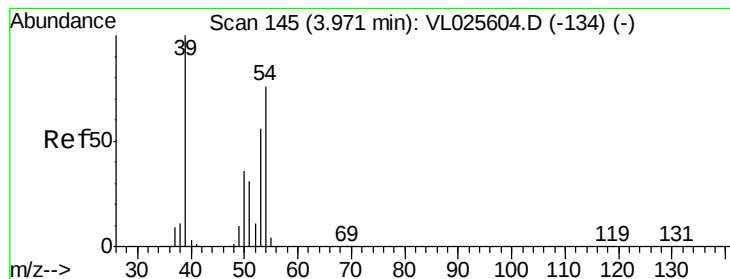
Tgt Ion: 43 Resp: 1228883

Ion Ratio Lower Upper

43 100

58 18.7 17.2 25.8





#16

1,3-Butadiene

Concen: 0.87 ppbv

RT: 4.01 min Scan# 152

Delta R.T. 0.04 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

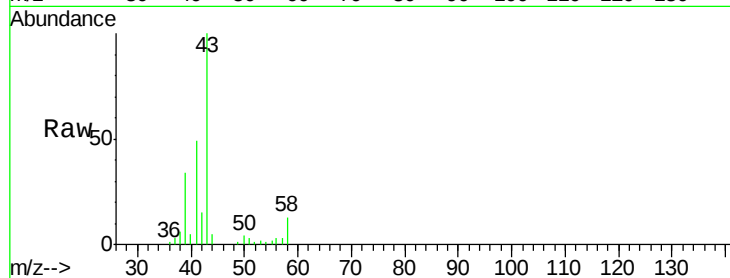
INFLUENT

Tgt Ion: 39 Resp: 34723

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

4.01

20000

15000

10000

5000

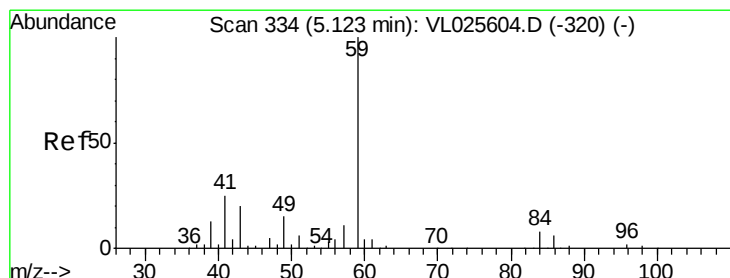
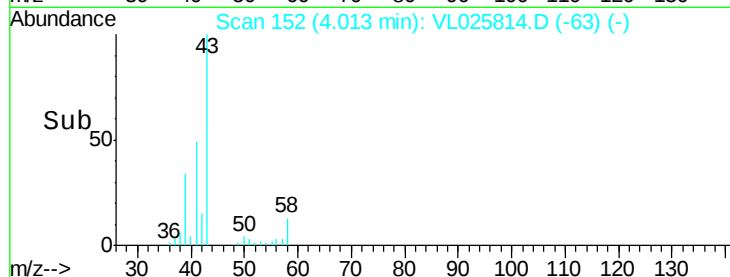
0

Time-->

3.95

4.00

4.05



#17

tert-Butyl alcohol

Concen: 0.20 ppbv

RT: 5.16 min Scan# 340

Delta R.T. 0.04 min

Lab File: VL025814.D

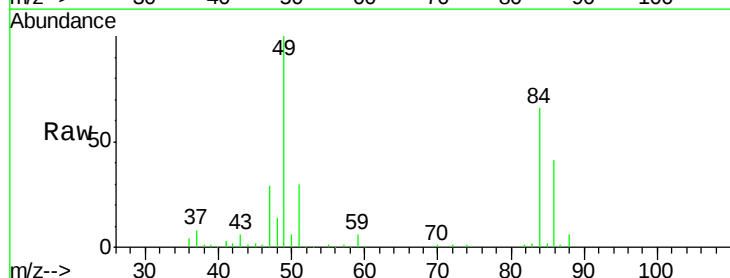
Acq: 31 Jul 2015 15:48

Tgt Ion: 59 Resp: 16735

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5.16

10000

8000

6000

4000

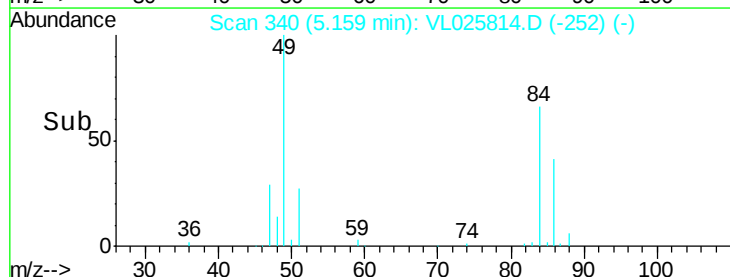
2000

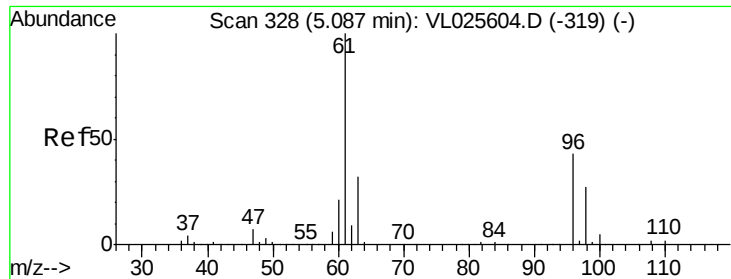
0

Time-->

5.10

5.15

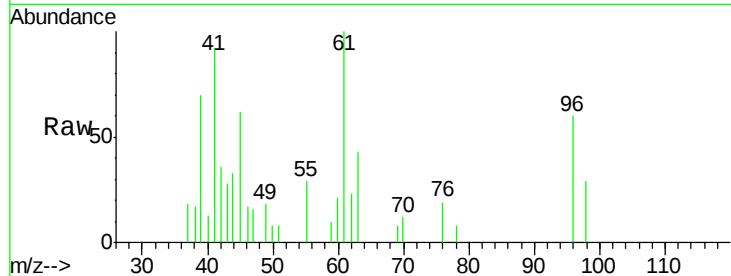




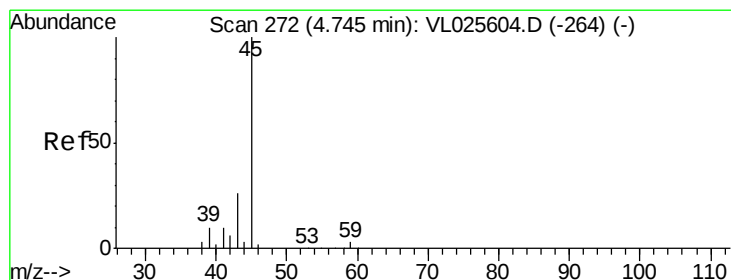
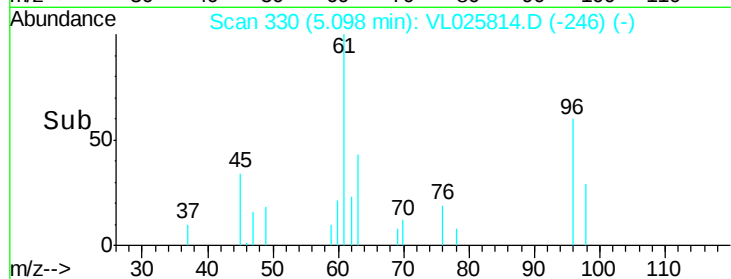
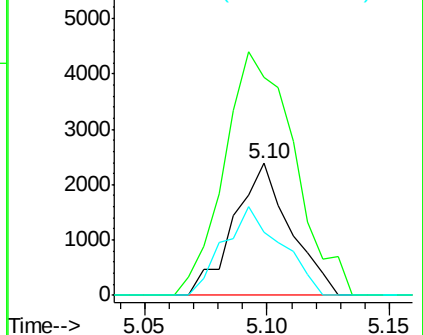
#18
 1,1-Dichloroethene
 Concen: 0.09 ppbv
 RT: 5.10 min Scan# 330
 Delta R.T. 0.01 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Instrument :
 MSVOA_L
 ClientSampled :
 INFLUENT

Tgt Ion: 96 Resp: 3825
 Ion Ratio Lower Upper
 96 100
 61 151.7 184.1 276.1#
 98 47.8 50.0 75.0#

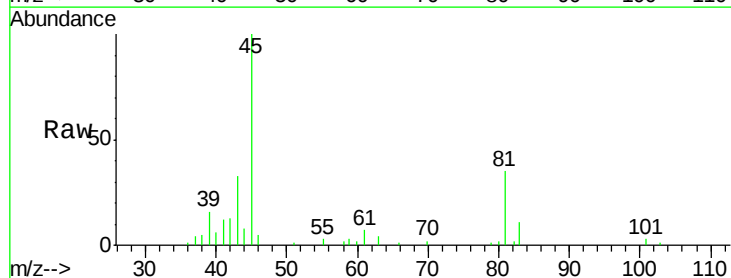


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

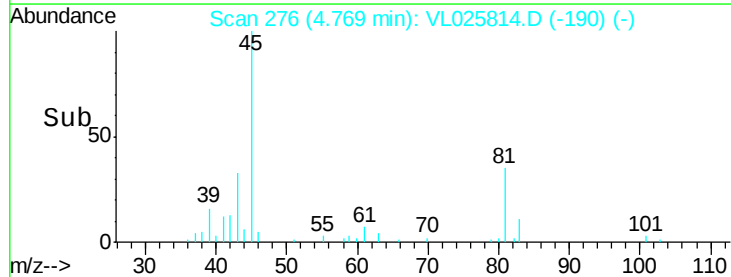
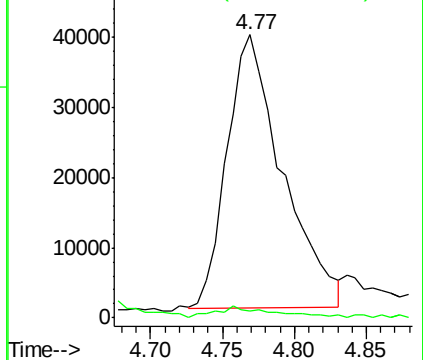


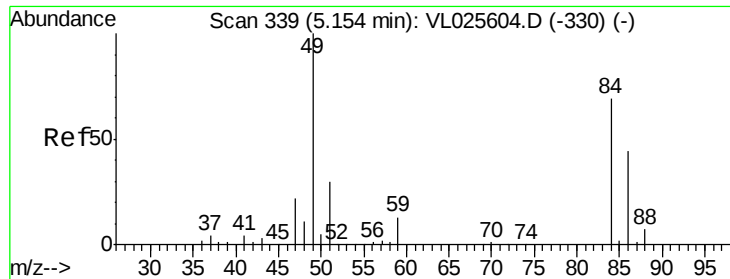
#19
 Isopropyl Alcohol
 Concen: 2.60 ppbv
 RT: 4.77 min Scan# 276
 Delta R.T. 0.02 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Tgt Ion: 45 Resp: 104774
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.1 1.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0

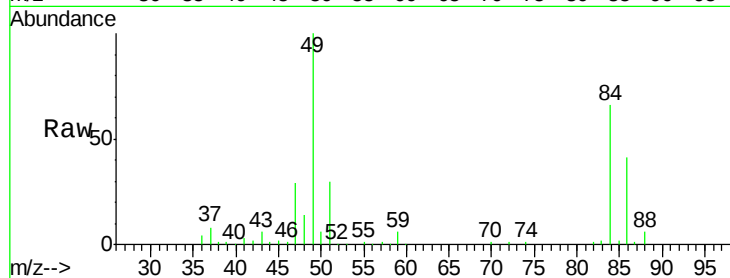




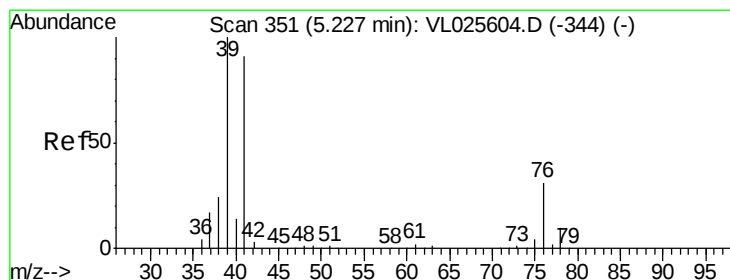
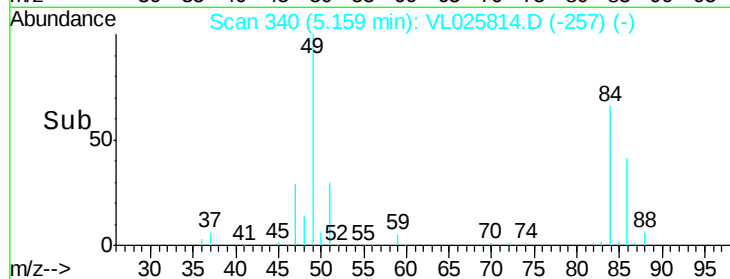
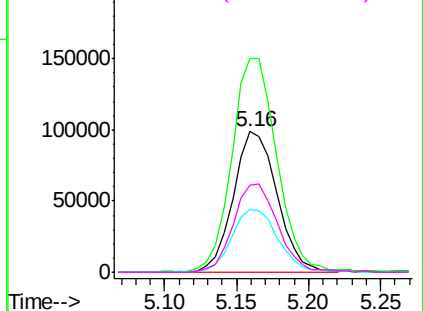
#20
Methylene Chloride
Concen: 5.11 ppbv
RT: 5.16 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion:	84	Resp:	209487
Ion	Ratio	Lower	Upper
84	100		
49	150.9	115.2	172.8
51	44.5	35.0	52.6
86	62.3	50.6	76.0

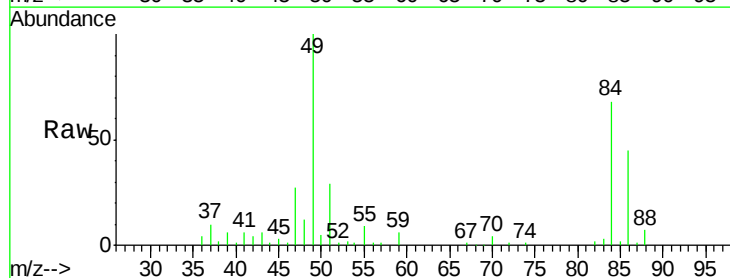


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

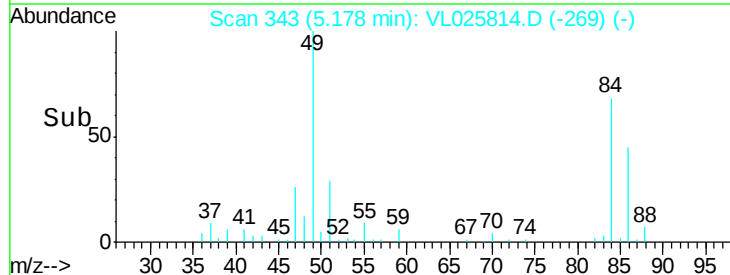
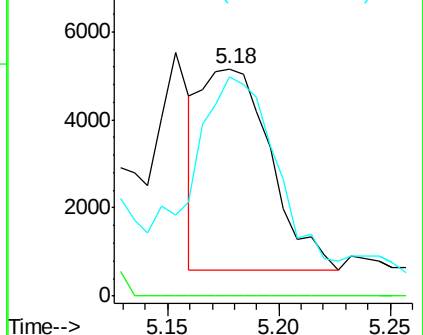


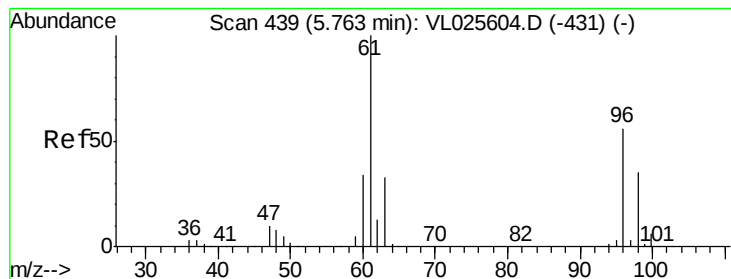
#21
Allyl Chloride
Concen: 0.16 ppbv
RT: 5.18 min Scan# 343
Delta R.T. -0.05 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion:	41	Resp:	9954
Ion	Ratio	Lower	Upper
41	100		
76	0.0	26.6	40.0#
39	159.5	88.2	132.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 1.95 ppbv

RT: 5.78 min Scan# 442

Delta R.T. 0.02 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

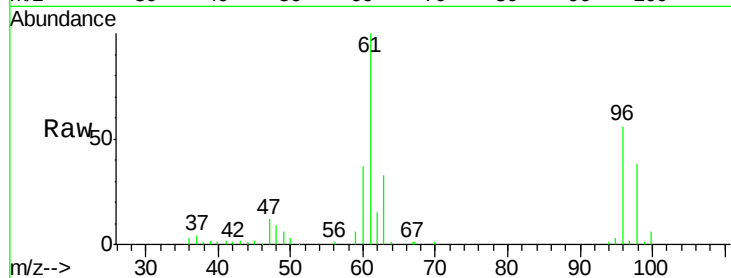
Tgt Ion: 96 Resp: 83894

Ion Ratio Lower Upper

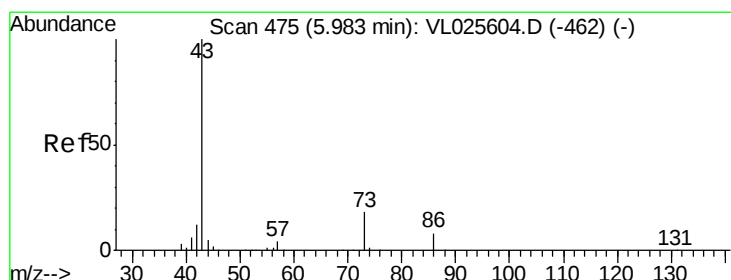
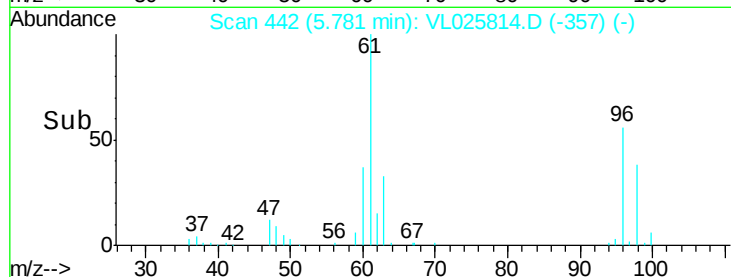
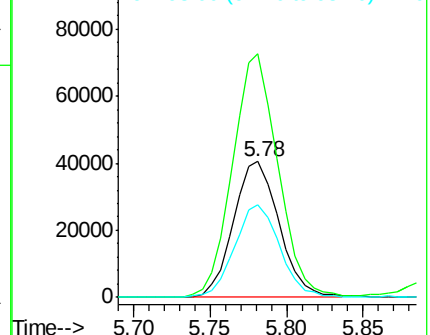
96 100

61 178.0 141.8 212.6

98 68.2 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



#23

Vinyl Acetate

Concen: 0.42 ppbv

RT: 6.02 min Scan# 481

Delta R.T. 0.04 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Tgt Ion: 43 Resp: 63778

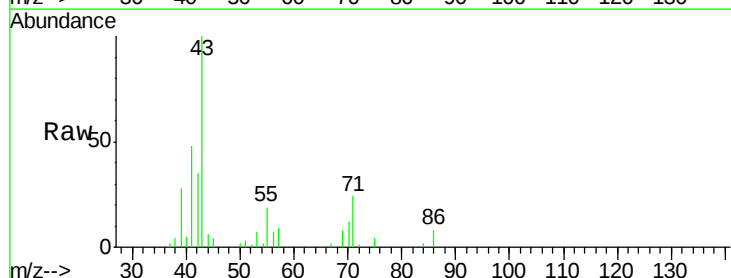
Ion Ratio Lower Upper

43 100

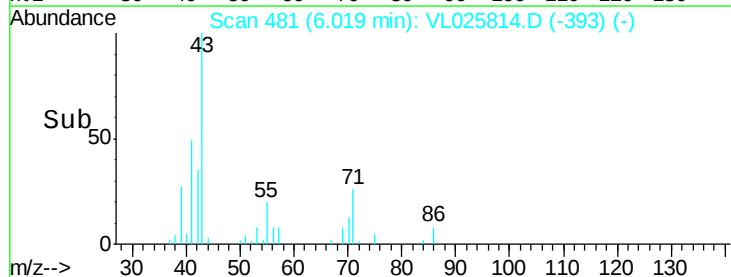
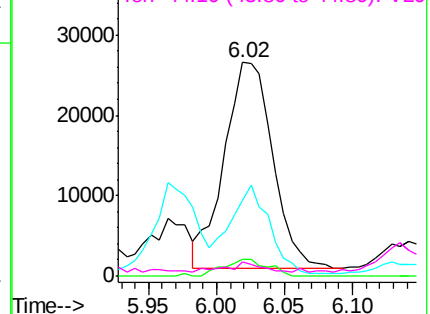
86 7.9 6.7 10.1

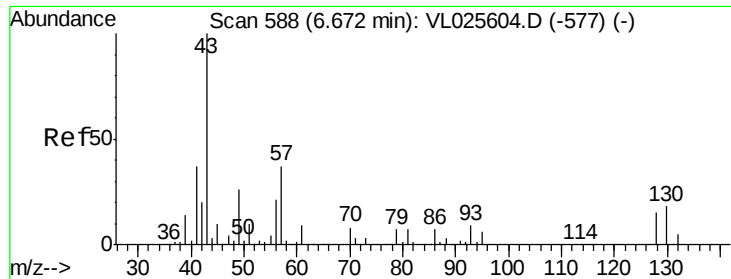
42 35.3 9.8 14.6#

44 4.5 4.1 6.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0

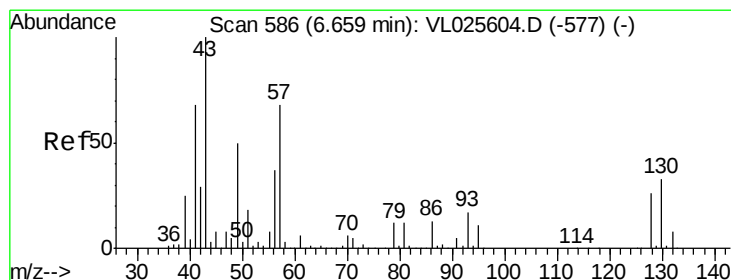
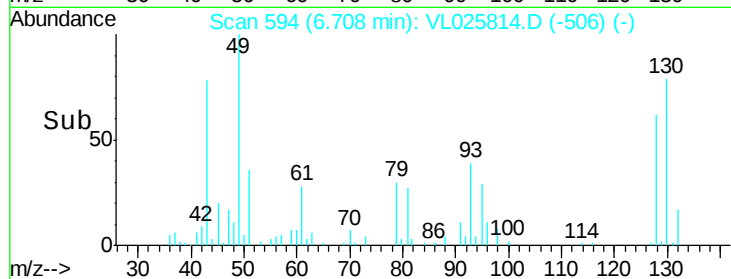
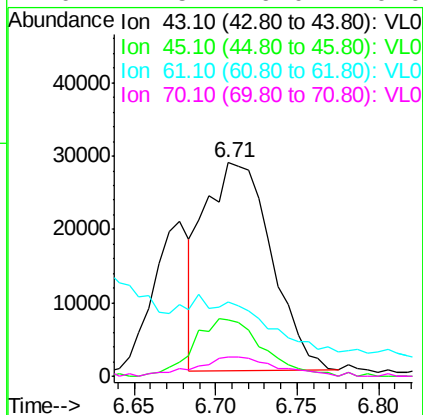
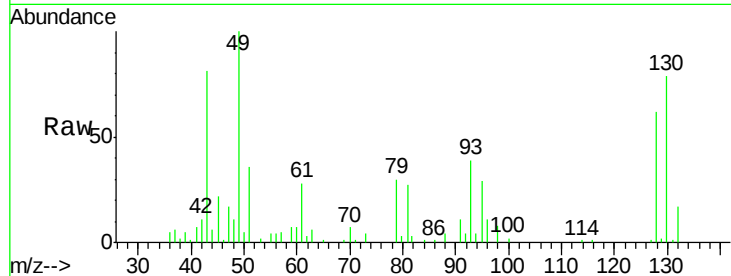




#25
Ethyl Acetate
Concen: 0.53 ppbv
RT: 6.71 min Scan# 594
Delta R.T. 0.04 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

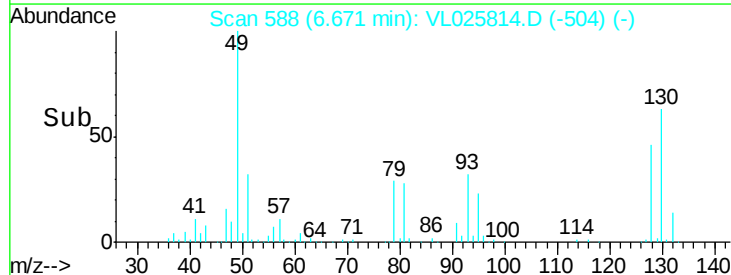
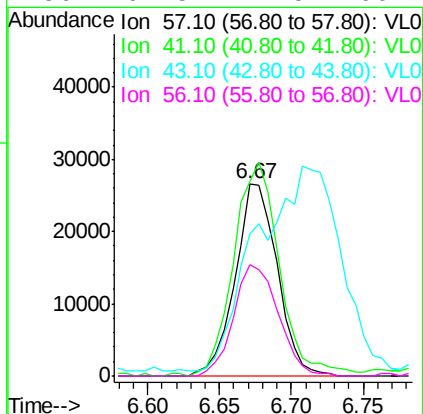
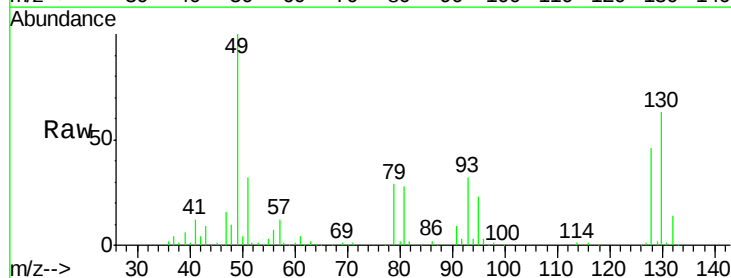
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

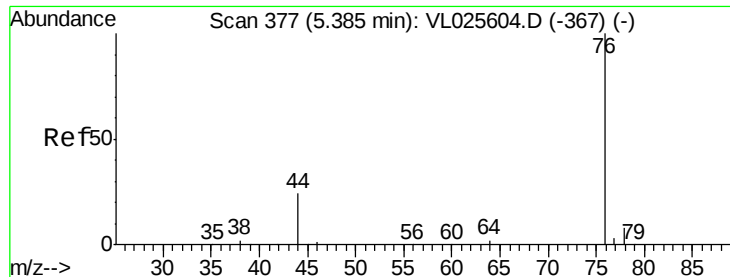
Tgt Ion:	43	Resp:	80855
Ion	Ratio	Lower	Upper
43	100		
45	29.0	7.5	11.3#
61	0.0	6.6	10.0#
70	11.5	6.0	9.0#



#26
Hexane
Concen: 0.75 ppbv
RT: 6.67 min Scan# 588
Delta R.T. 0.01 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion:	57	Resp:	53972
Ion	Ratio	Lower	Upper
57	100		
41	123.9	81.4	122.2#
43	235.1	171.4	257.2
56	61.5	44.5	66.7

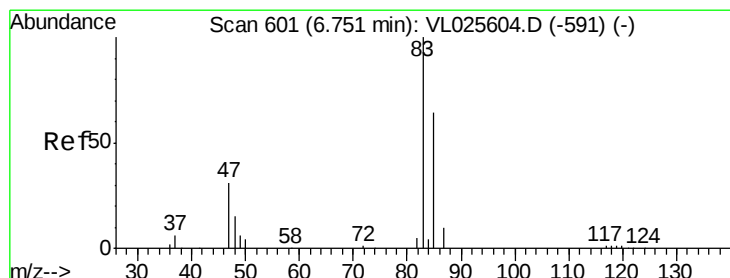
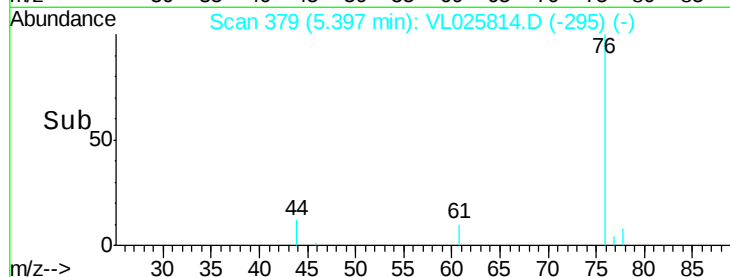
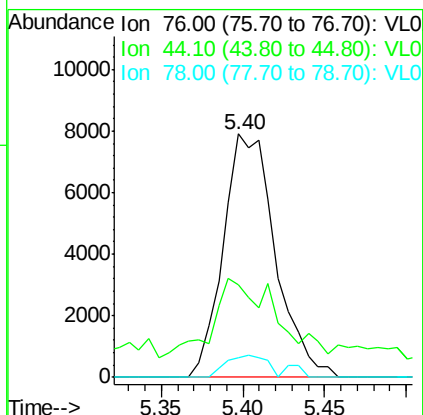
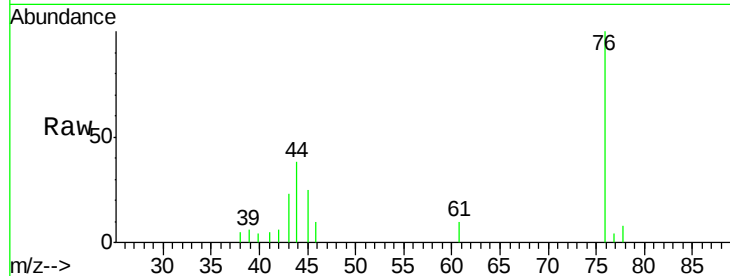




#27
Carbon Disulfide
Concen: 0.15 ppbv
RT: 5.40 min Scan# 379
Delta R.T. 0.01 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

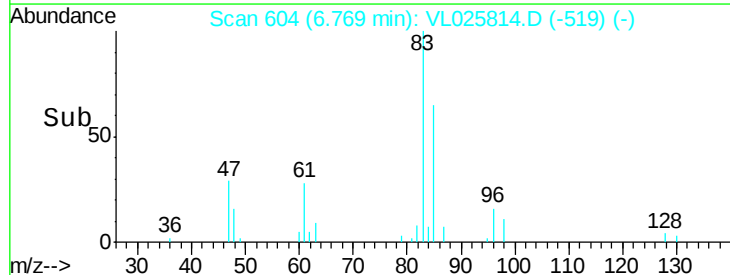
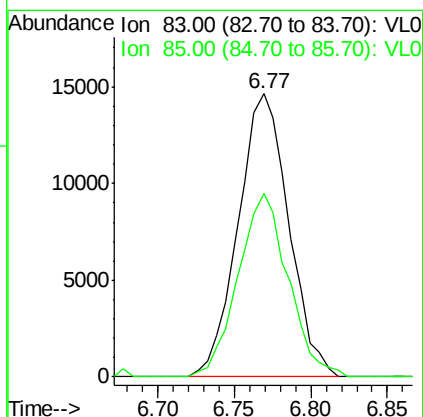
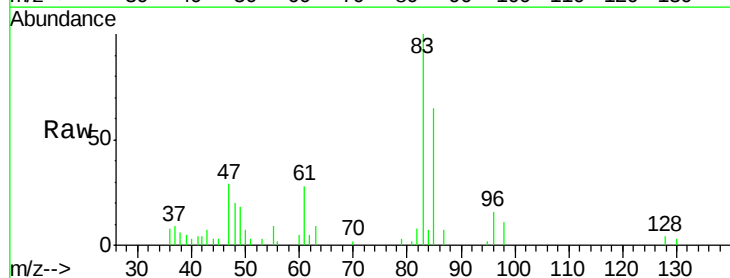
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

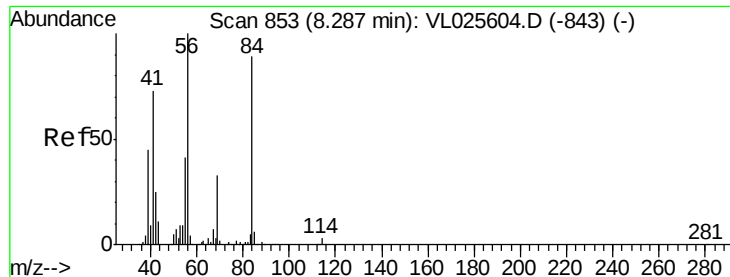
Tgt Ion: 76 Resp: 17536
Ion Ratio Lower Upper
76 100
44 57.8 20.2 30.4#
78 8.8 7.4 11.2



#29
Chloroform
Concen: 0.24 ppbv
RT: 6.77 min Scan# 604
Delta R.T. 0.02 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion: 83 Resp: 33550
Ion Ratio Lower Upper
83 100
85 65.0 51.6 77.4

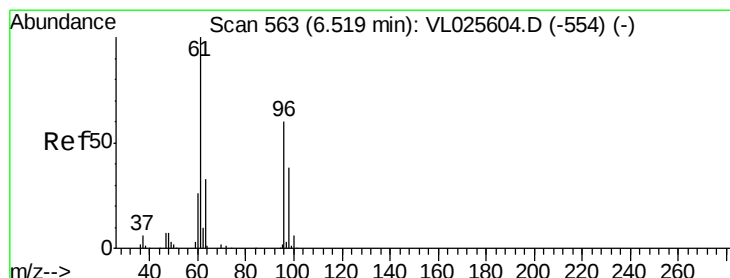
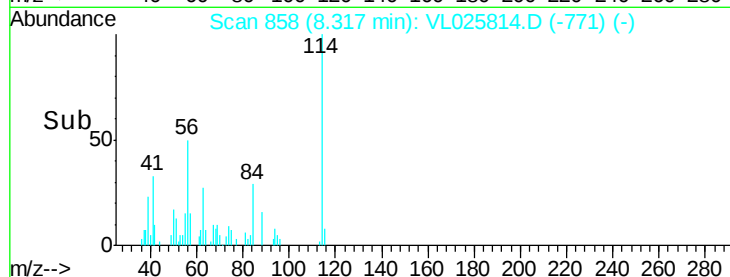
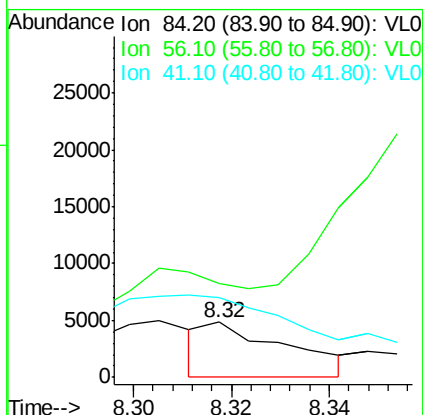
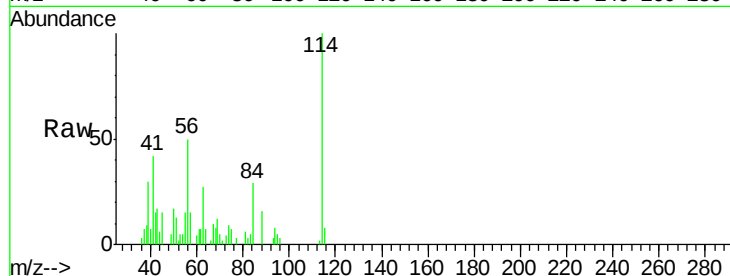




#30
Cyclohexane
Concen: 0.08 ppbv
RT: 8.32 min Scan# 858
Delta R.T. 0.03 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

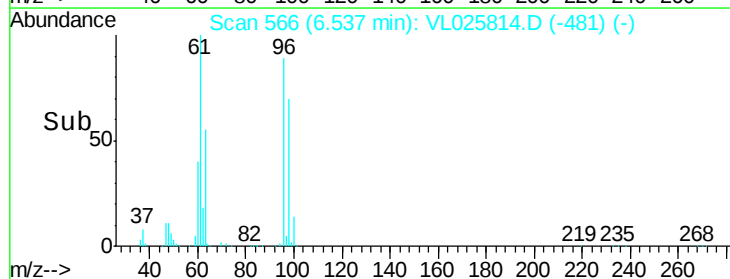
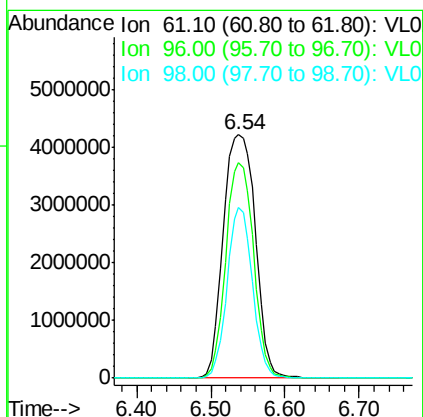
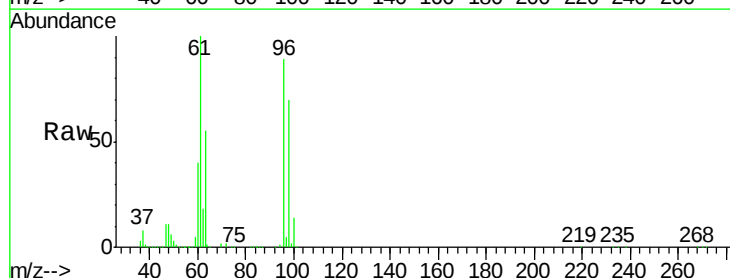
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

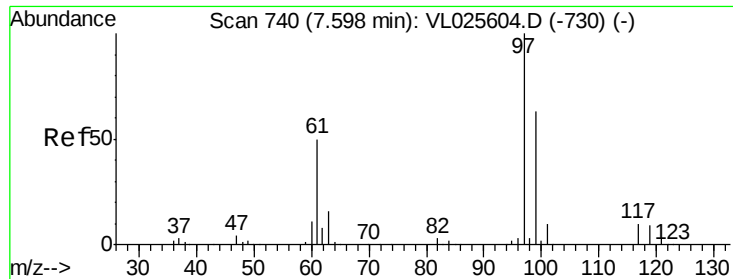
Tgt Ion: 84 Resp: 5666
Ion Ratio Lower Upper
84 100
56 0.0 97.5 146.3#
41 457.1 65.4 98.2#



#31
cis-1,2-Dichloroethene
Concen: 178.09 ppbv
RT: 6.54 min Scan# 566
Delta R.T. 0.02 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion: 61 Resp: 12715116
Ion Ratio Lower Upper
61 100
96 88.5 48.1 72.1#
98 69.9 30.7 46.1#





#32

1,1,1-Trichloroethane

Concen: 1.14 ppbv

RT: 7.63 min Scan# 745

Delta R.T. 0.03 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

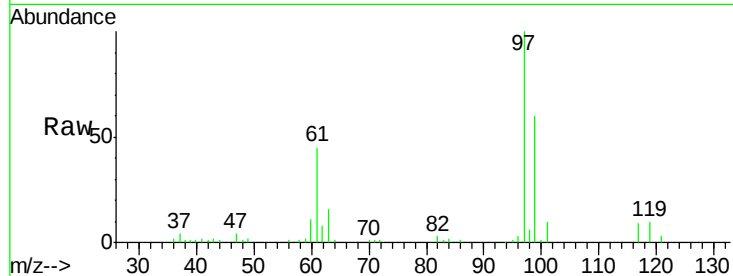
Tgt Ion: 97 Resp: 175810

Ion Ratio Lower Upper

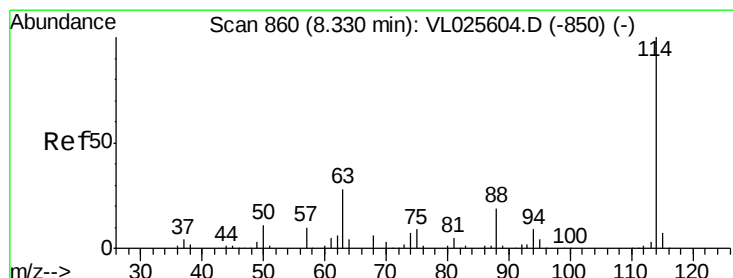
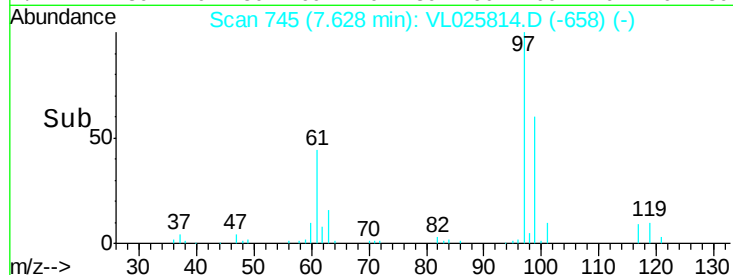
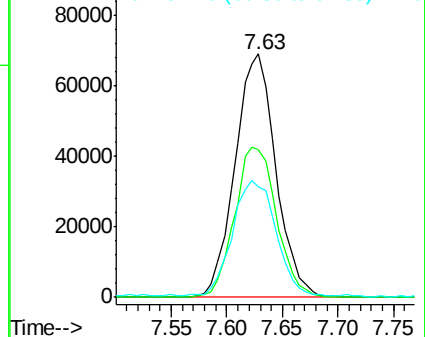
97 100

99 63.2 51.2 76.8

61 54.3 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: 8.36 min Scan# 865

Delta R.T. 0.03 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

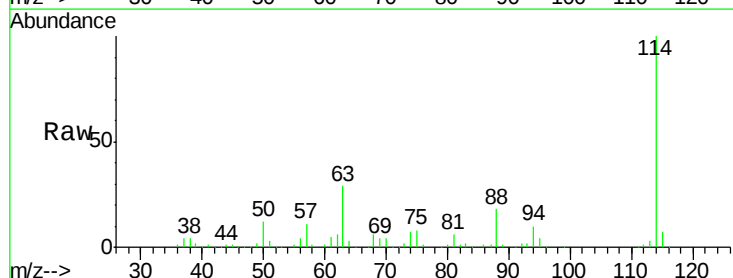
Tgt Ion: 114 Resp: 1538955

Ion Ratio Lower Upper

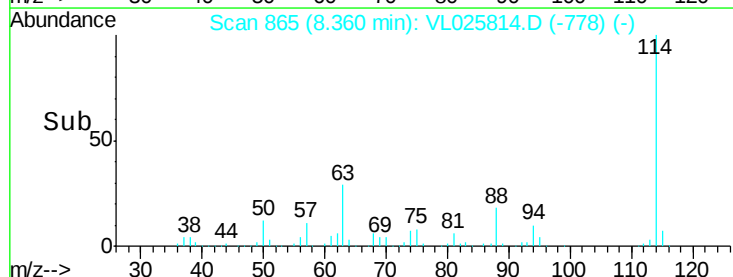
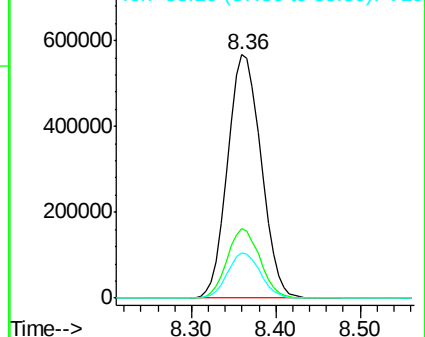
114 100

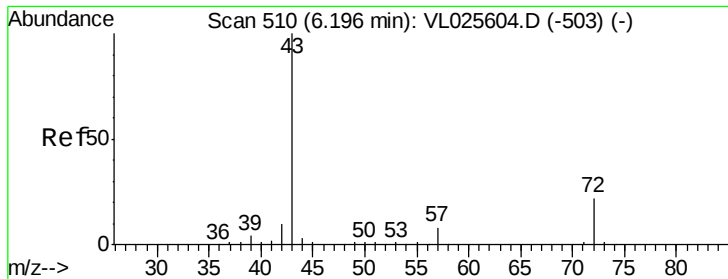
63 28.0 22.4 33.6

88 18.2 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

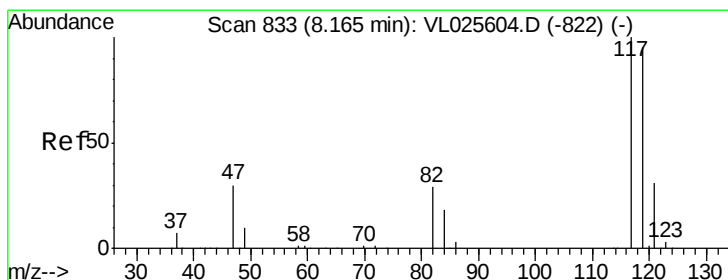
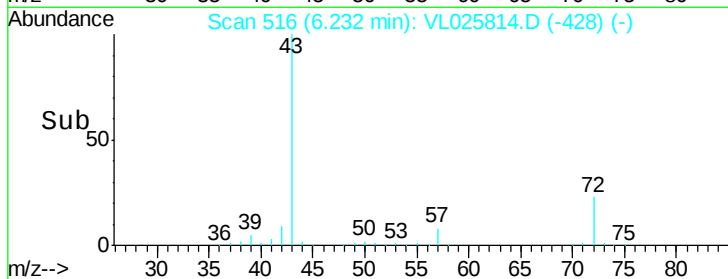
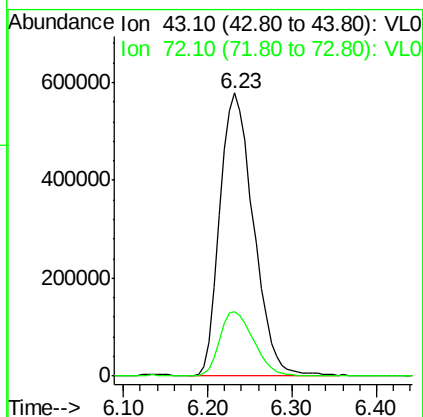
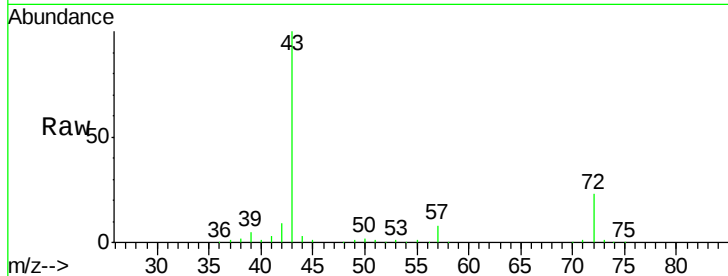




#34
2-Butanone
Concen: 18.13 ppbv
RT: 6.23 min Scan# 516
Delta R.T. 0.04 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

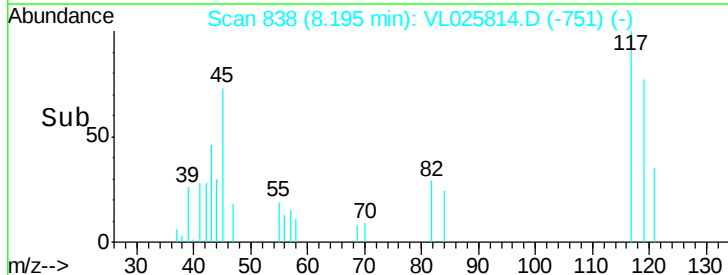
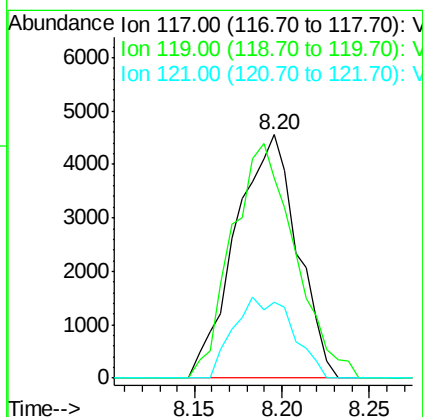
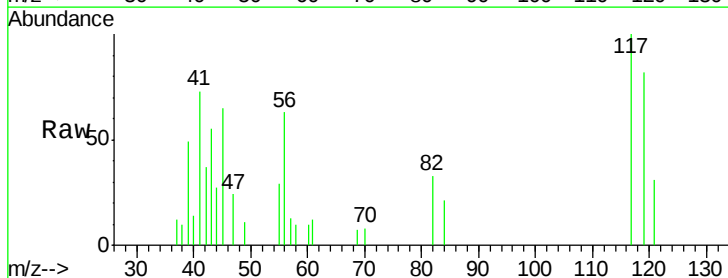
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

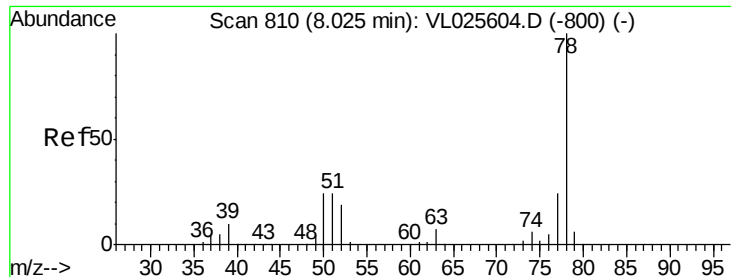
Tgt Ion: 43 Resp: 1583405
Ion Ratio Lower Upper
43 100
72 23.1 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.07 ppbv
RT: 8.20 min Scan# 838
Delta R.T. 0.03 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion: 117 Resp: 11199
Ion Ratio Lower Upper
117 100
119 82.3 75.9 113.9
121 31.0 24.4 36.6





#36

Benzene

Concen: 0.24 ppbv

RT: 8.06 min Scan# 816

Delta R.T. 0.04 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

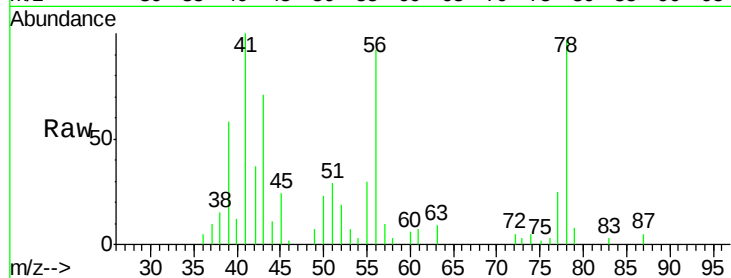
Tgt Ion: 78 Resp: 35484

Ion Ratio Lower Upper

78 100

77 25.8 19.0 28.4

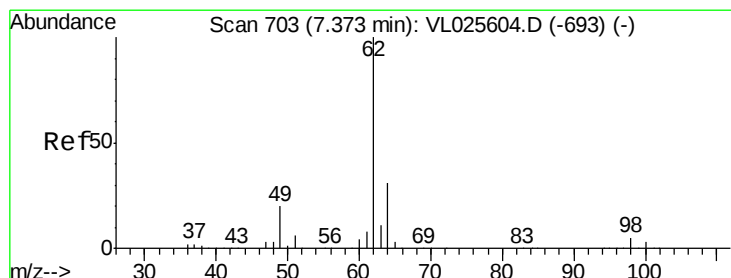
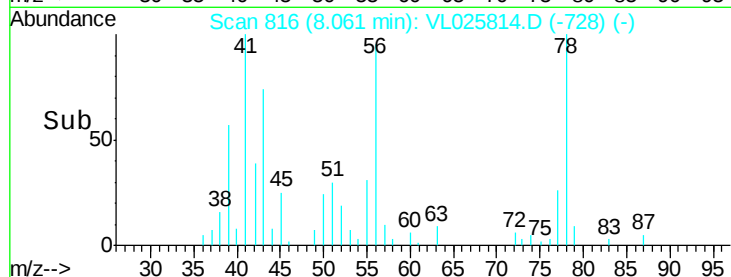
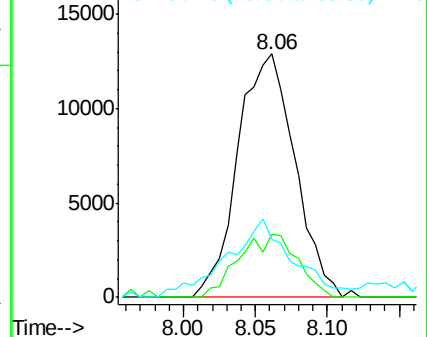
50 20.0 19.2 28.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.06 ppbv

RT: 7.40 min Scan# 707

Delta R.T. 0.02 min

Lab File: VL025814.D

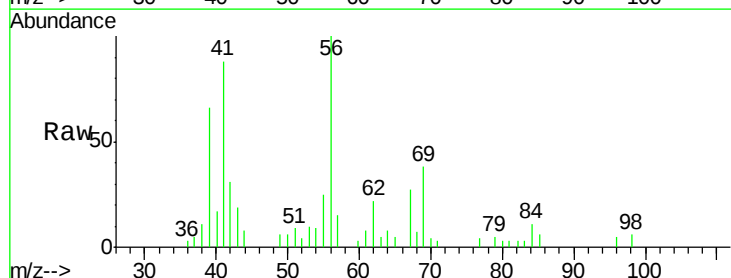
Acq: 31 Jul 2015 15:48

Tgt Ion: 62 Resp: 7214

Ion Ratio Lower Upper

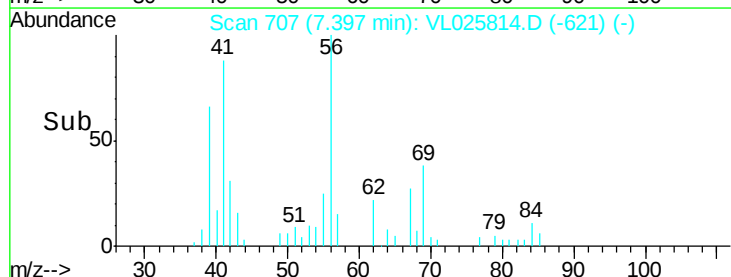
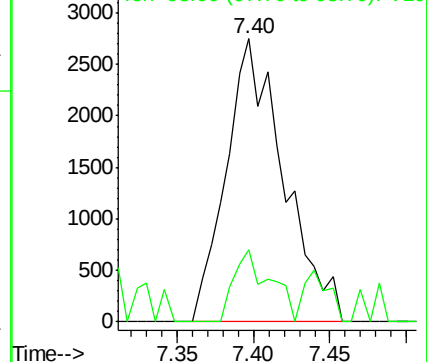
62 100

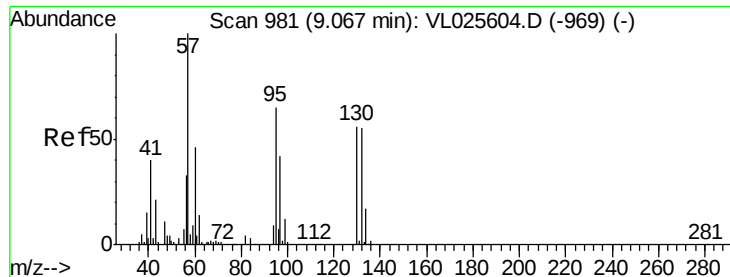
98 15.9 4.1 6.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 283.17 ppbv

RT: 9.12 min Scan# 989

Delta R.T. 0.05 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion:130 Resp:19405563

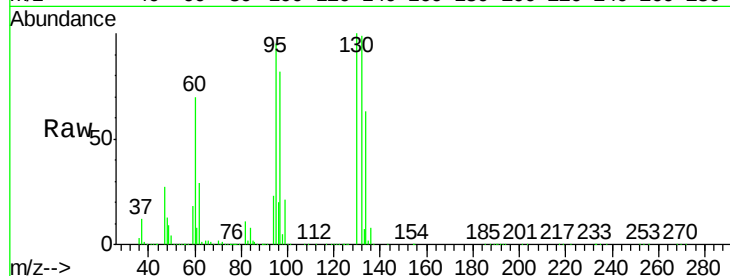
Ion Ratio Lower Upper

130 100

95 94.9 94.2 141.4

132 99.4 78.6 118.0

97 82.3 60.6 90.8

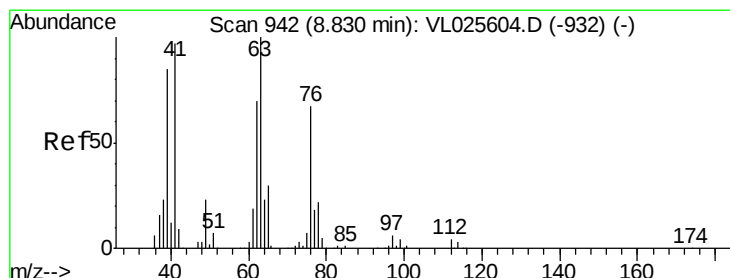
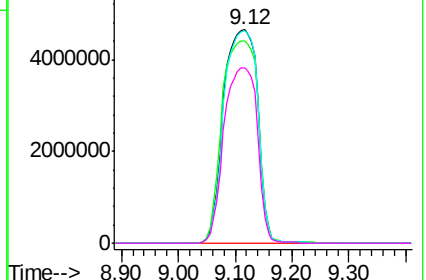
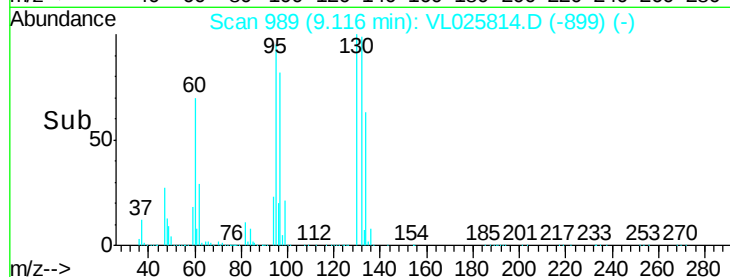


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.07 ppbv

RT: 8.87 min Scan# 949

Delta R.T. 0.04 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

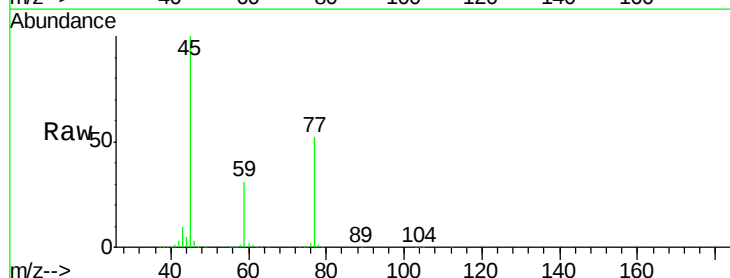
Tgt Ion: 63 Resp: 3907

Ion Ratio Lower Upper

63 100

41 490.0 78.0 117.0#

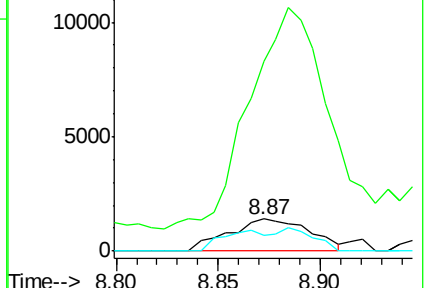
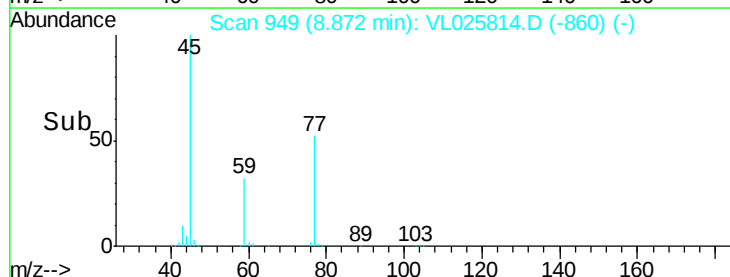
62 48.4 55.7 83.5#

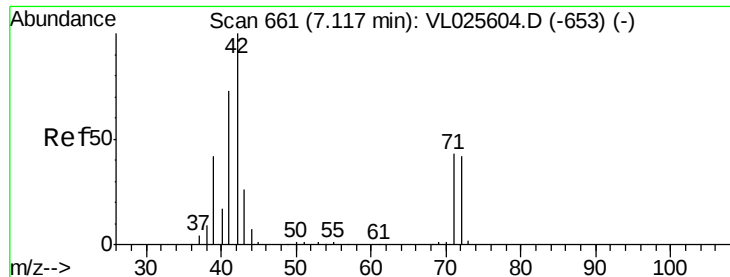


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 46.69 ppbv

RT: 7.15 min Scan# 666

Delta R.T. 0.03 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

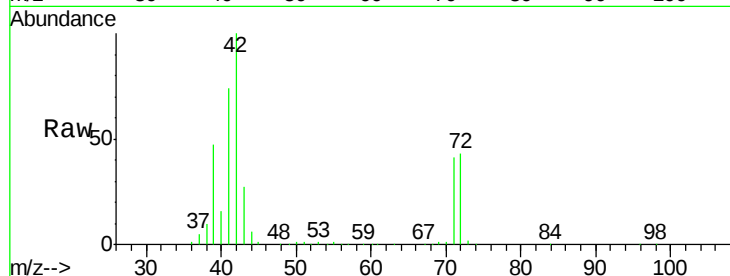
Tgt Ion: 42 Resp: 2035317

Ion Ratio Lower Upper

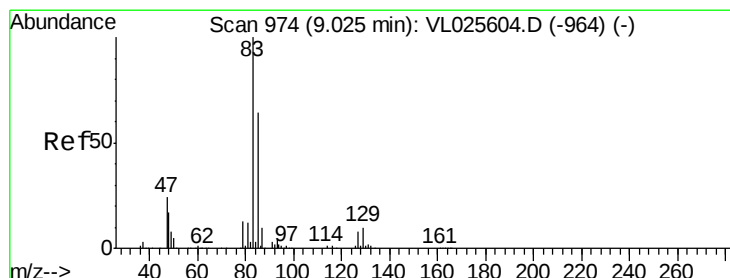
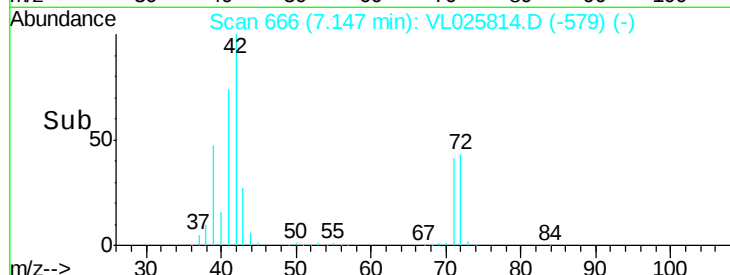
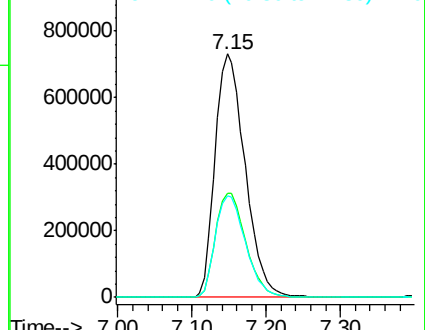
42 100

72 43.9 34.0 51.0

71 42.5 33.0 49.6



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 2.67 ppbv

RT: 9.11 min Scan# 988

Delta R.T. 0.09 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

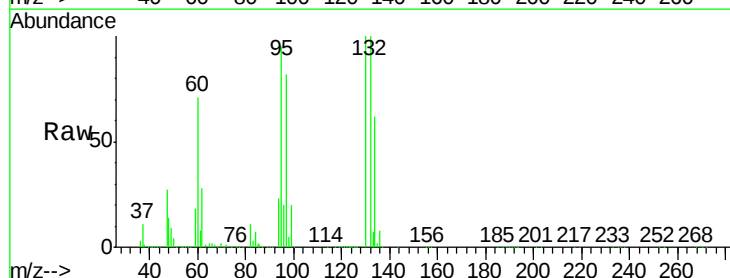
Tgt Ion: 83 Resp: 404947

Ion Ratio Lower Upper

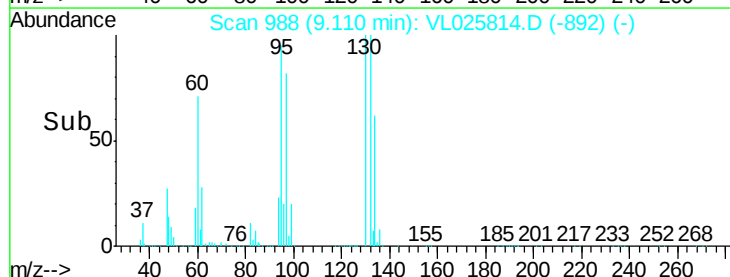
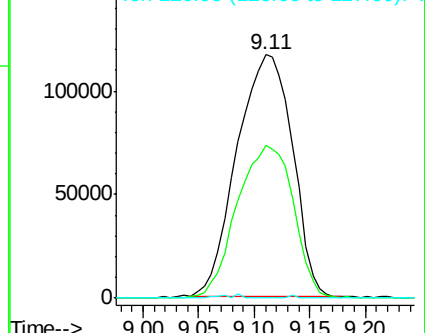
83 100

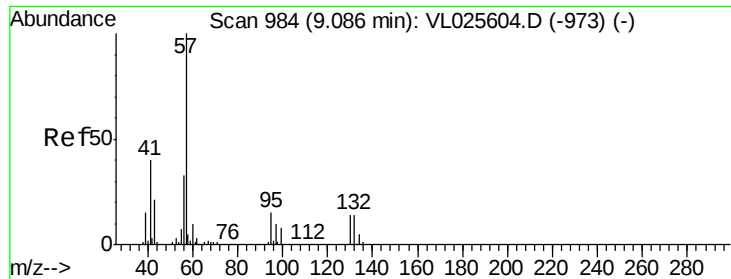
85 62.8 51.3 76.9

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): V





#44

2,2,4-Trimethylpentane

Concen: 0.41 ppbv

RT: 9.13 min Scan# 992

Delta R.T. 0.05 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

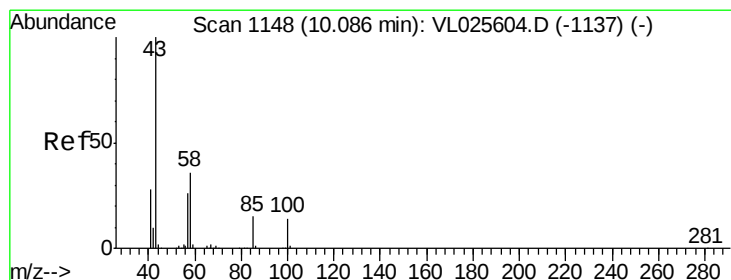
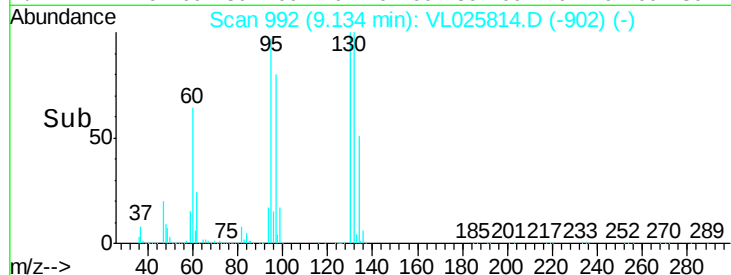
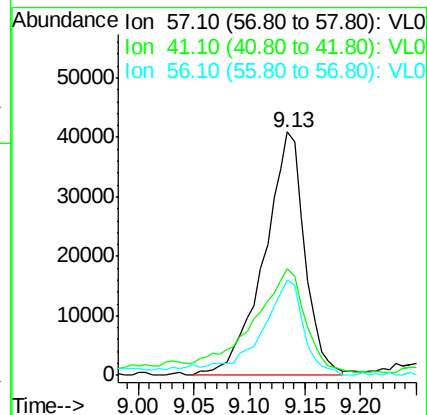
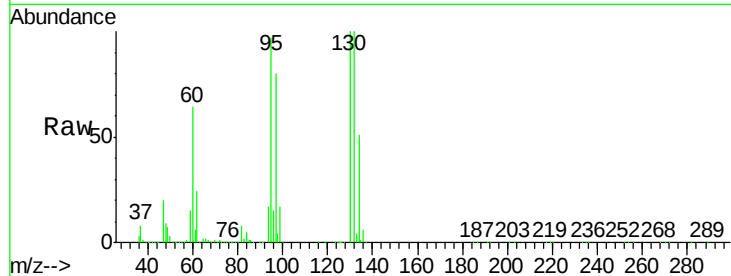
Tgt Ion: 57 Resp: 103668

Ion Ratio Lower Upper

57 100

41 58.5 31.2 46.8#

56 44.5 25.4 38.2#



#50

4-Methyl-2-Pentanone

Concen: 0.60 ppbv

RT: 10.13 min Scan# 1156

Delta R.T. 0.05 min

Lab File: VL025814.D

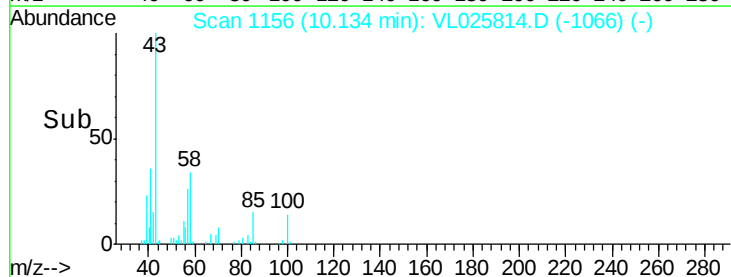
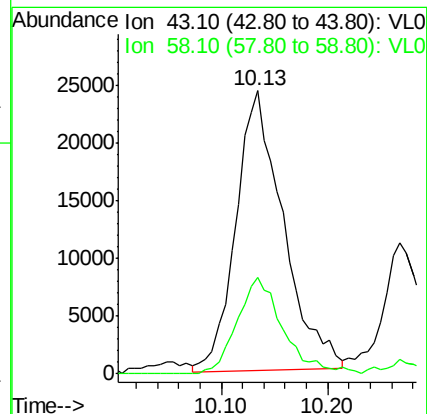
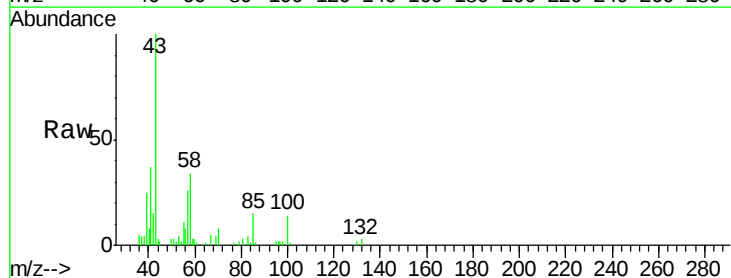
Acq: 31 Jul 2015 15:48

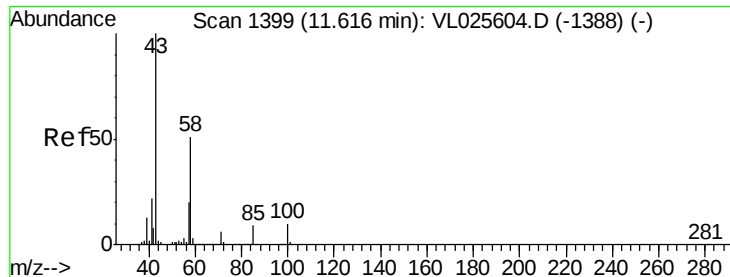
Tgt Ion: 43 Resp: 75491

Ion Ratio Lower Upper

43 100

58 33.4 28.5 42.7

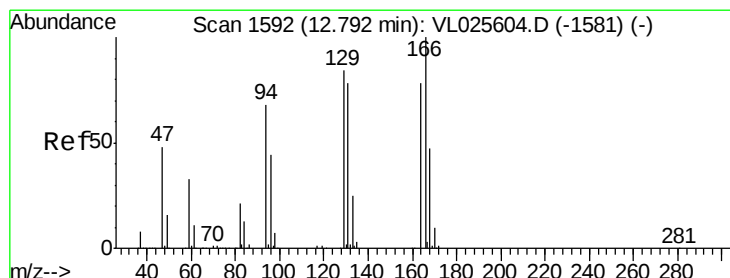
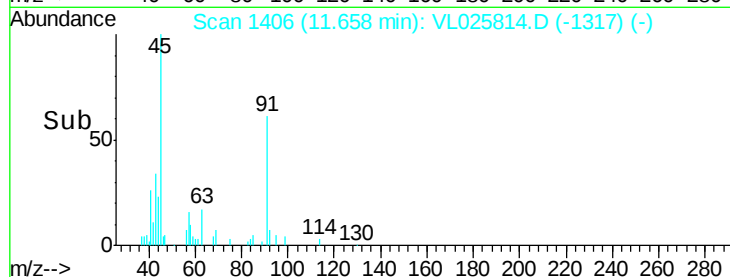
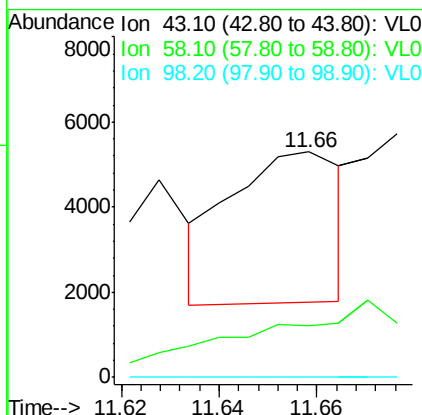
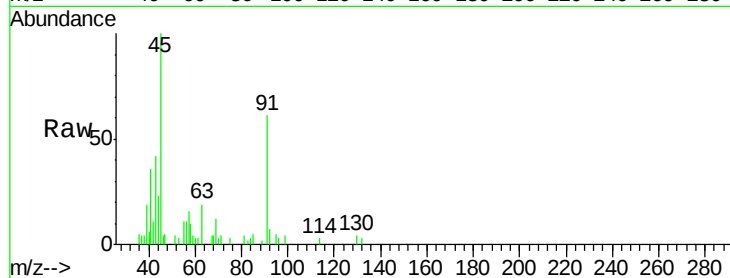




#51
2-Hexanone
Concen: 0.05 ppbv
RT: 11.66 min Scan# 1406
Delta R.T. 0.04 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

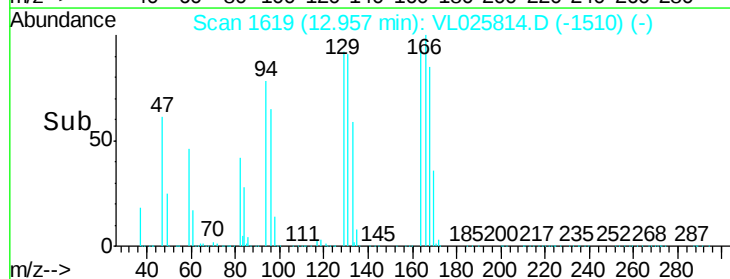
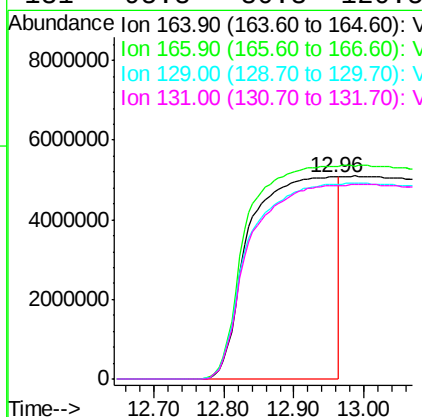
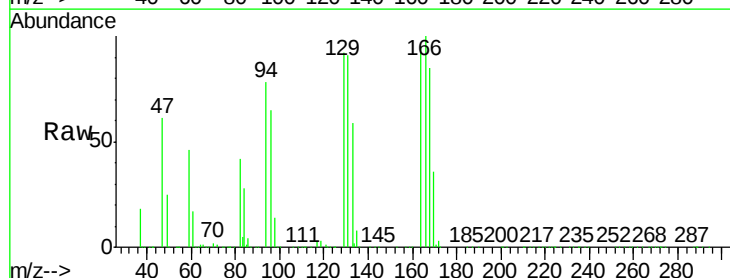
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

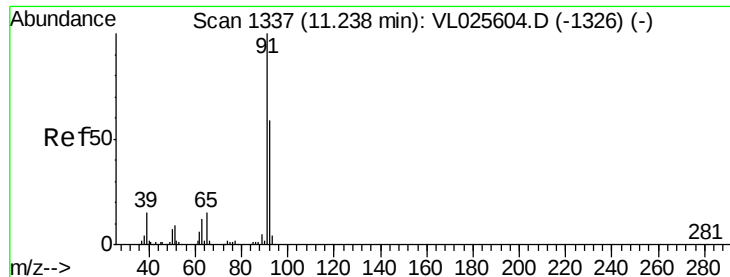
Tgt Ion: 43 Resp: 5627
Ion Ratio Lower Upper
43 100
58 164.4 39.0 58.6#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 572.98 ppbv
RT: 12.96 min Scan# 1619
Delta R.T. 0.16 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion: 164 Resp: 42356795
Ion Ratio Lower Upper
164 100
166 105.3 102.3 153.5
129 96.4 86.2 129.4
131 95.8 80.3 120.5





#53

Toluene

Concen: 3.44 ppbv

RT: 11.28 min Scan# 1344

Delta R.T. 0.04 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

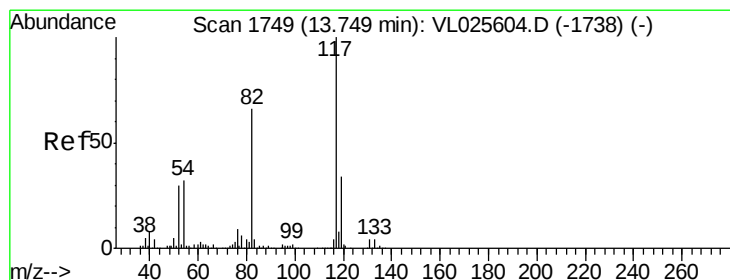
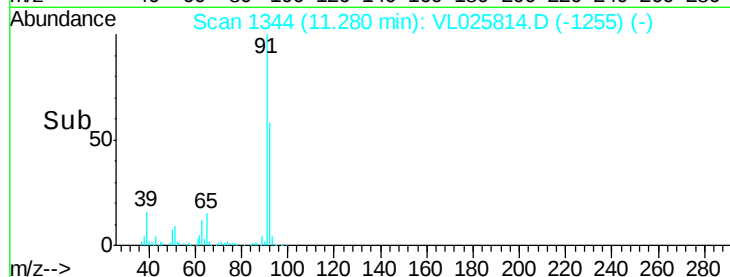
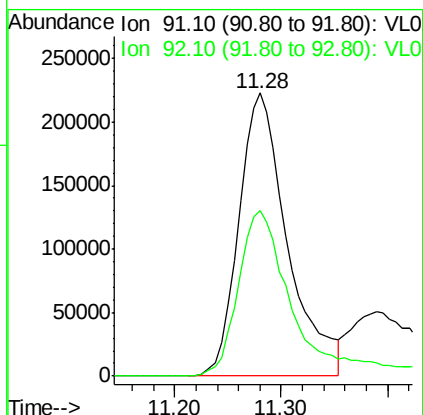
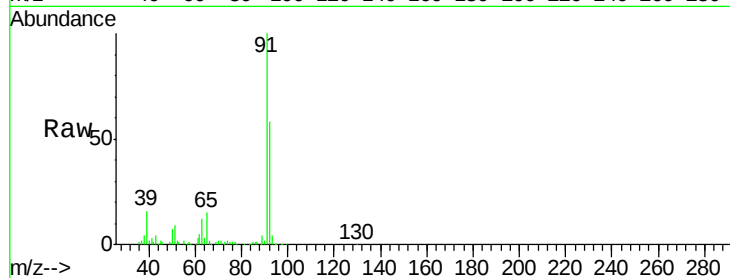
INFLUENT

Tgt Ion: 91 Resp: 712517

Ion Ratio Lower Upper

91 100

92 71.1 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.98 min Scan# 1787

Delta R.T. 0.23 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

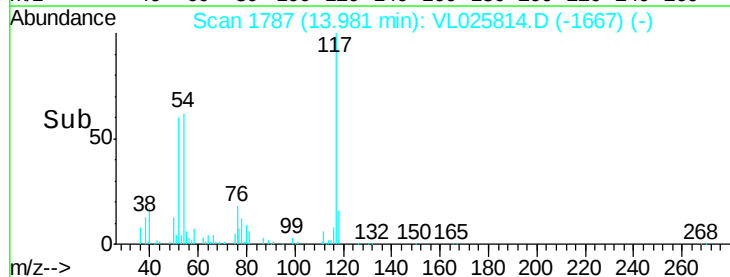
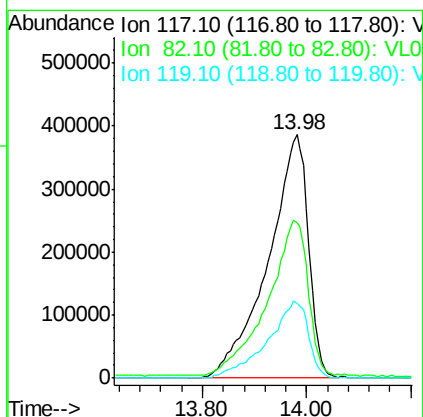
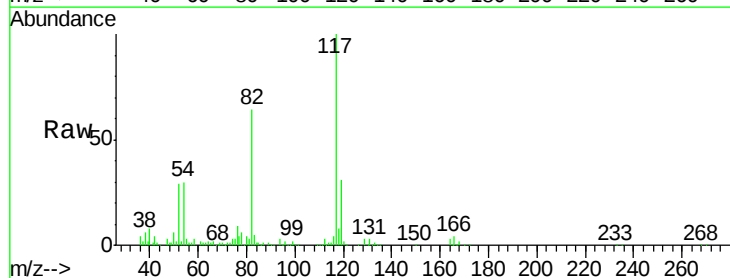
Tgt Ion: 117 Resp: 2069315

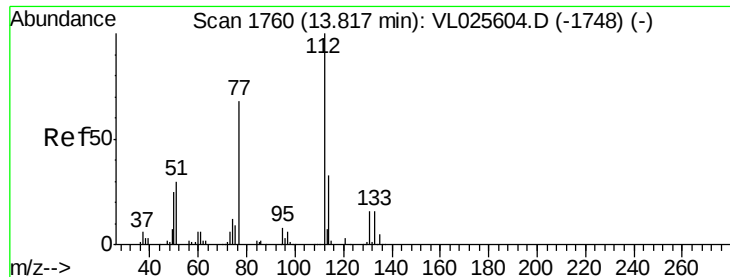
Ion Ratio Lower Upper

117 100

82 66.1 50.5 75.7

119 32.0 45.1 67.7#

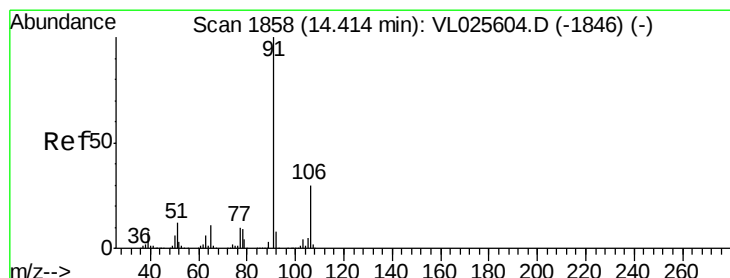
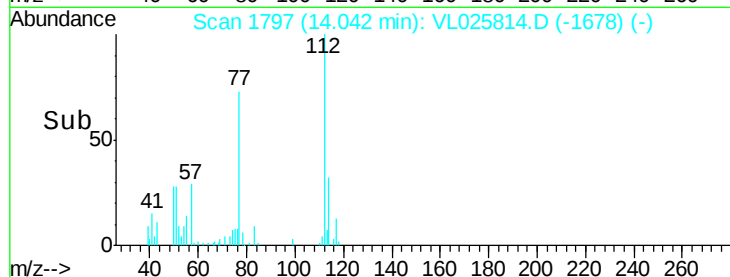
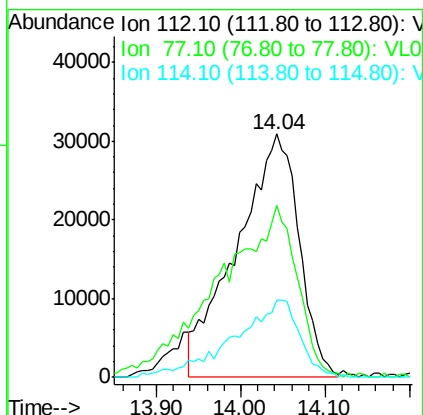
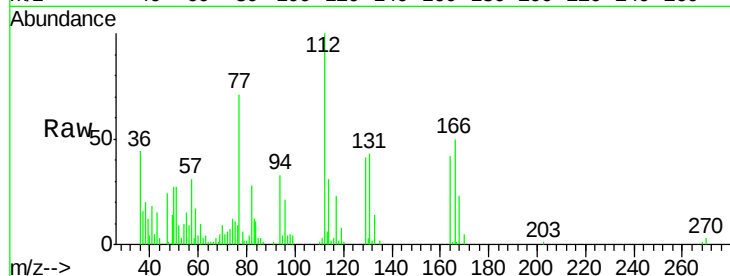




#57
Chlorobenzene
Concen: 0.71 ppbv
RT: 14.04 min Scan# 1797
Delta R.T. 0.23 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

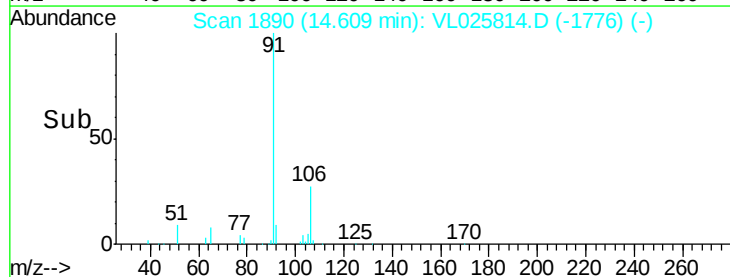
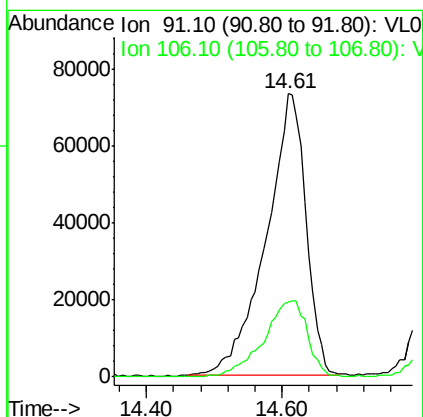
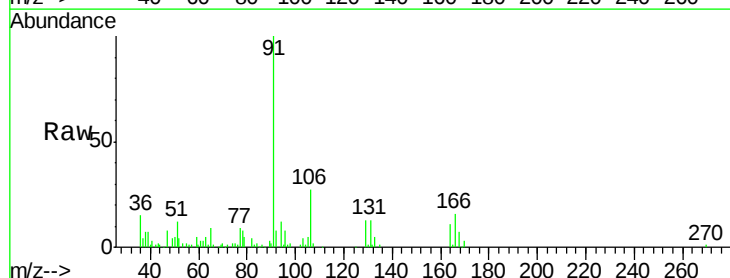
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

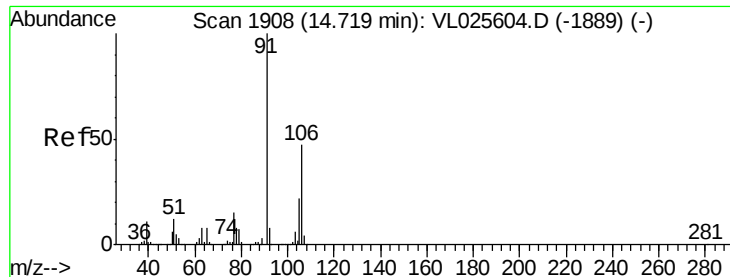
Tgt Ion: 112 Resp: 157297
Ion Ratio Lower Upper
112 100
77 70.3 55.2 82.8
114 31.9 29.4 36.0



#58
Ethyl Benzene
Concen: 0.87 ppbv
RT: 14.61 min Scan# 1890
Delta R.T. 0.19 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion: 91 Resp: 298049
Ion Ratio Lower Upper
91 100
106 26.7 24.2 36.2

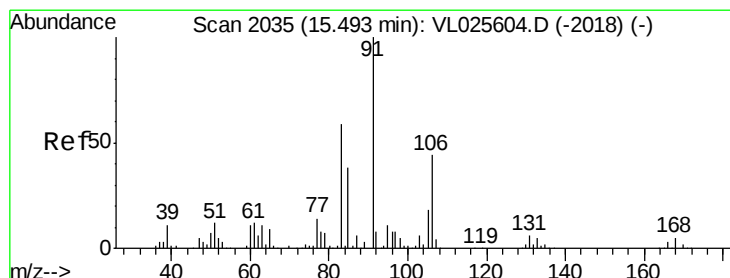
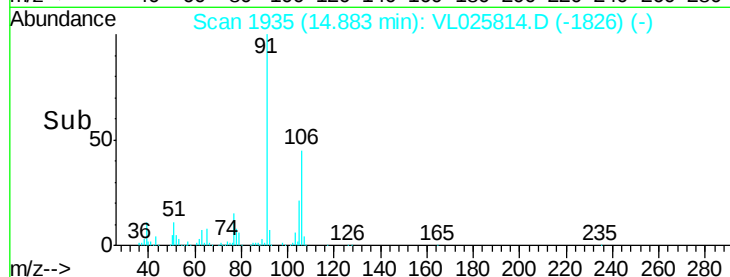
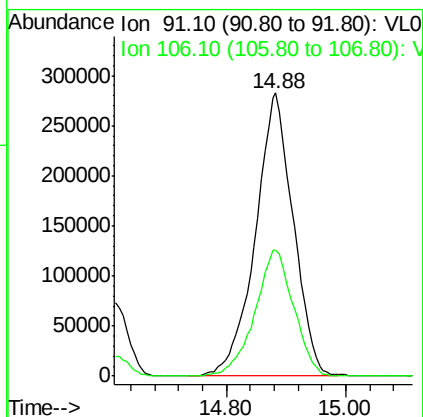
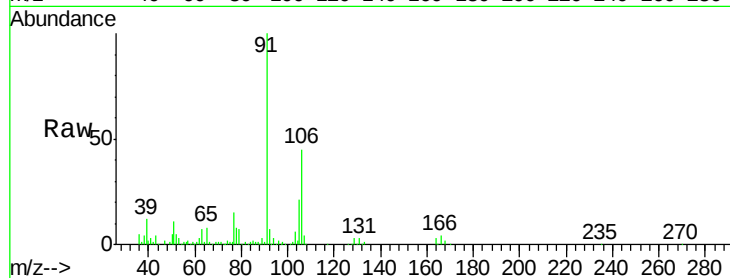




#59
m/p-Xylene
Concen: 4.11 ppbv
RT: 14.88 min Scan# 1935
Delta R.T. 0.16 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

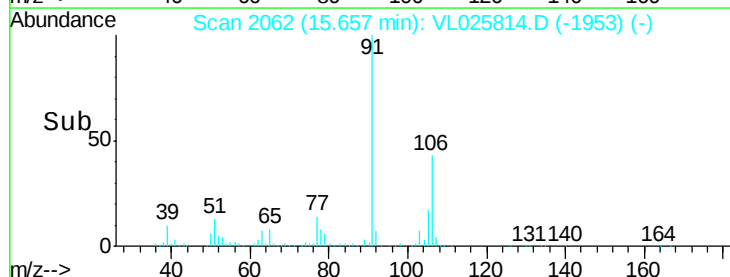
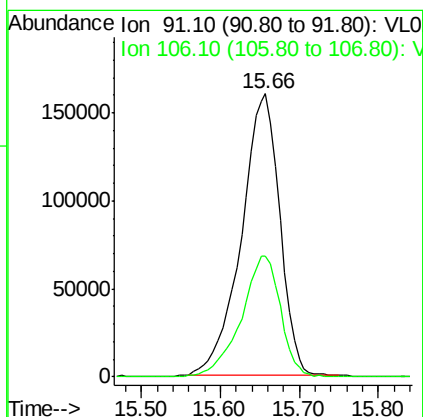
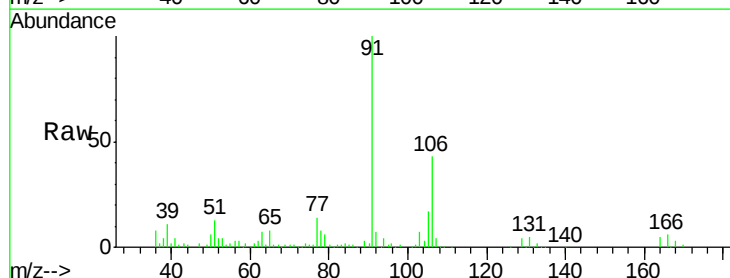
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

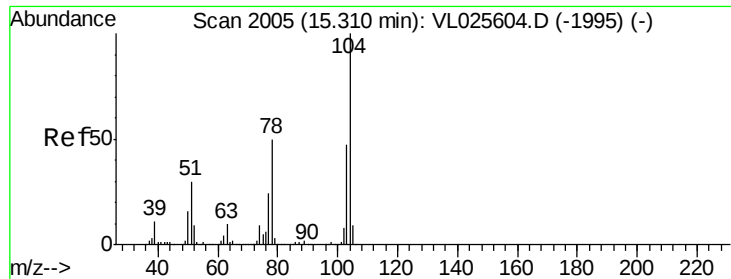
Tgt Ion: 91 Resp: 1233444
Ion Ratio Lower Upper
91 100
106 46.2 37.9 56.9



#60
o-Xylene
Concen: 1.68 ppbv
RT: 15.66 min Scan# 2062
Delta R.T. 0.16 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion: 91 Resp: 543070
Ion Ratio Lower Upper
91 100
106 43.9 22.1 66.1





#61

Styrene

Concen: 0.66 ppbv

RT: 15.48 min Scan# 2033

Delta R.T. 0.17 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

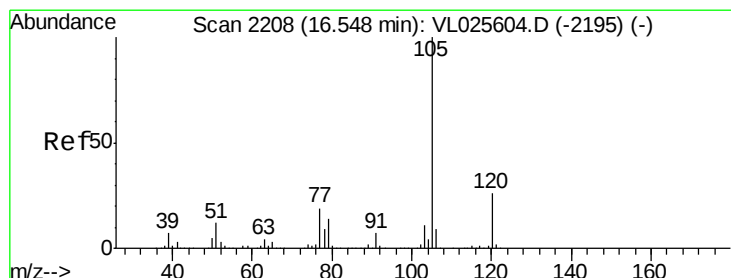
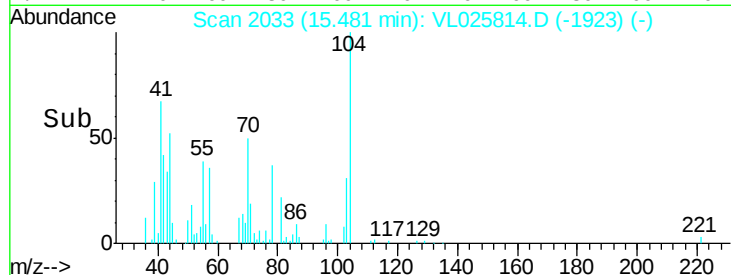
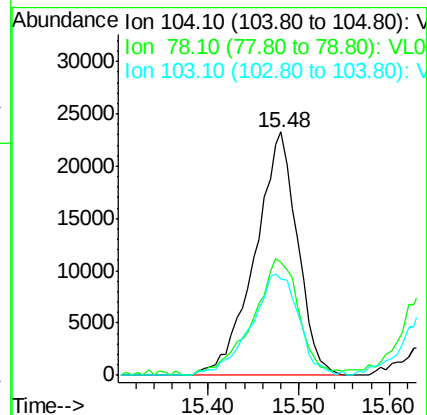
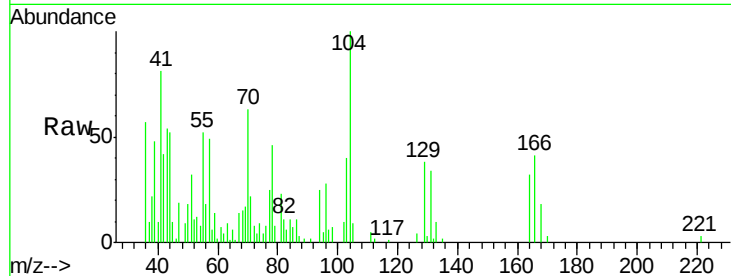
Tgt Ion:104 Resp: 75145

Ion Ratio Lower Upper

104 100

78 53.6 40.2 60.4

103 46.9 37.4 56.2



#62

Isopropylbenzene

Concen: 0.12 ppbv

RT: 16.68 min Scan# 2230

Delta R.T. 0.13 min

Lab File: VL025814.D

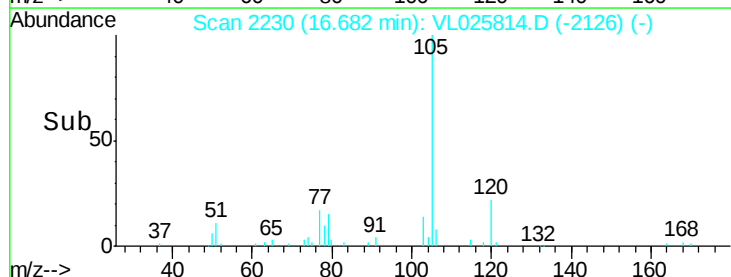
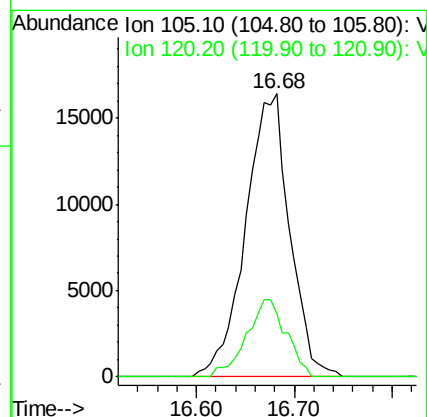
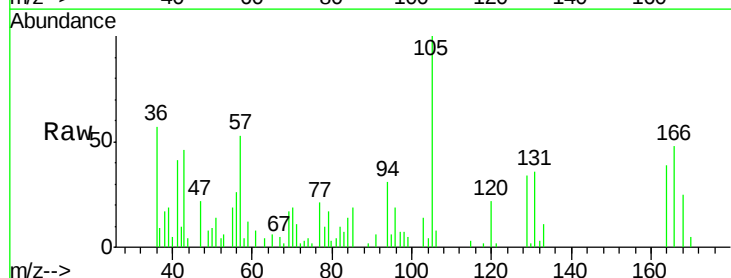
Acq: 31 Jul 2015 15:48

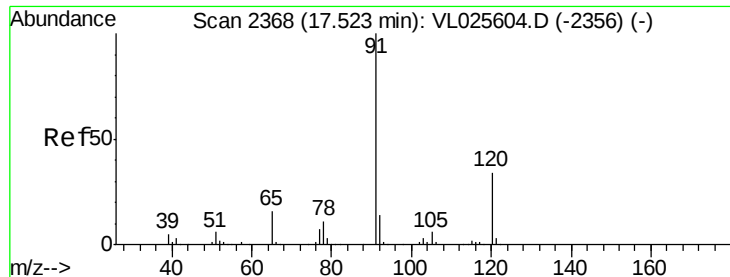
Tgt Ion:105 Resp: 51530

Ion Ratio Lower Upper

105 100

120 24.6 20.6 31.0





#64

n-propylbenzene

Concen: 0.38 ppbv

RT: 17.63 min Scan# 2385

Delta R.T. 0.10 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

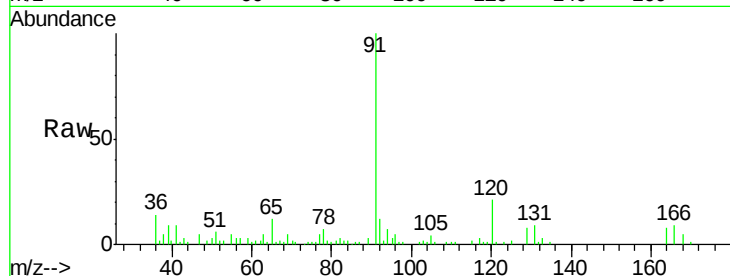
INFLUENT

Tgt Ion:120 Resp: 43338

Ion Ratio Lower Upper

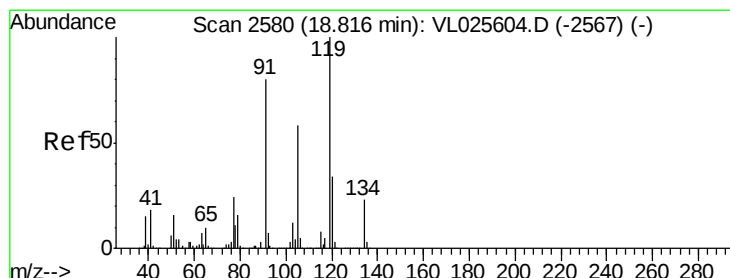
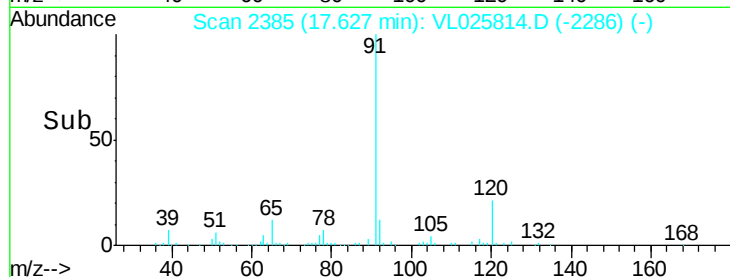
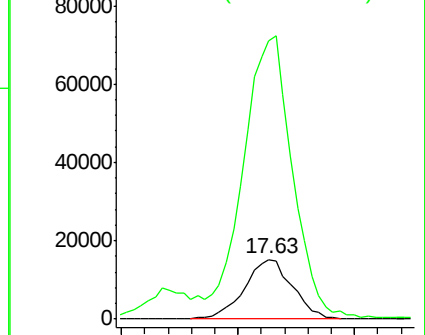
120 100

91 536.5 370.5 555.7



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.35 ppbv

RT: 18.91 min Scan# 2596

Delta R.T. 0.10 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

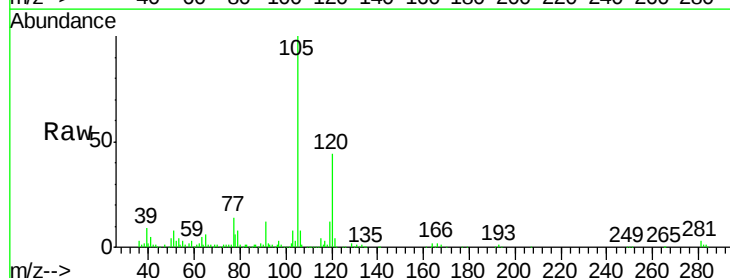
Tgt Ion:119 Resp: 147074

Ion Ratio Lower Upper

119 100

91 84.0 64.5 96.7

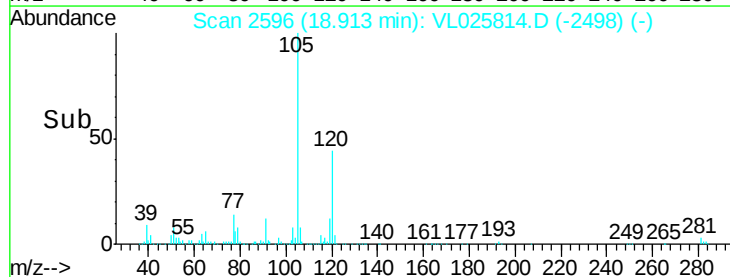
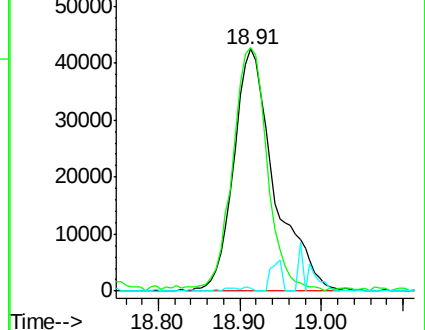
134 9.2 17.4 26.0#

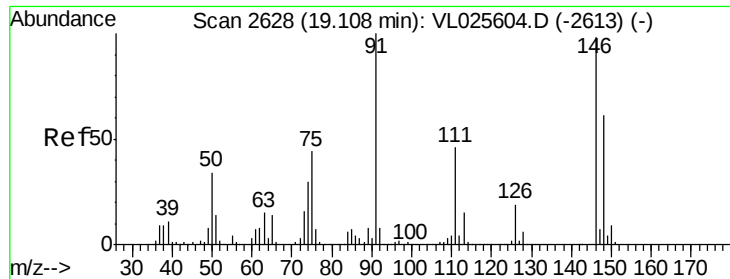


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

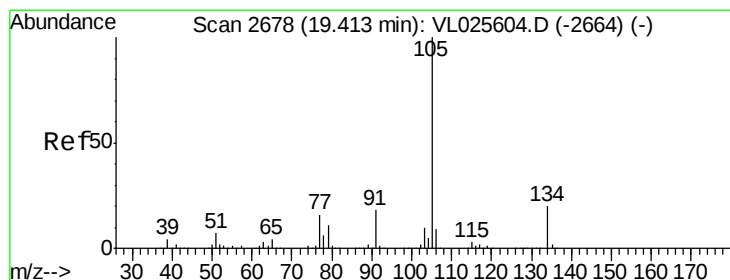
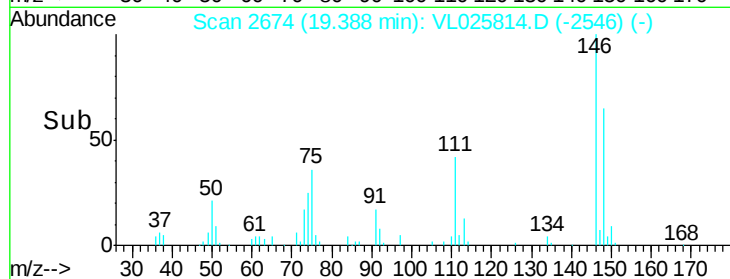
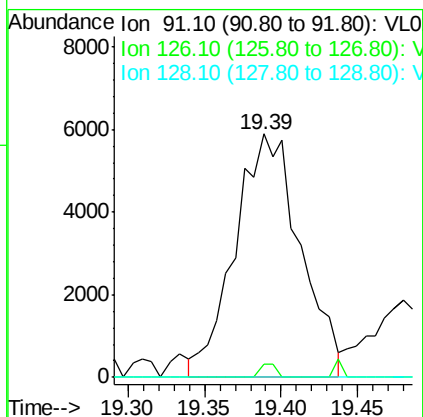
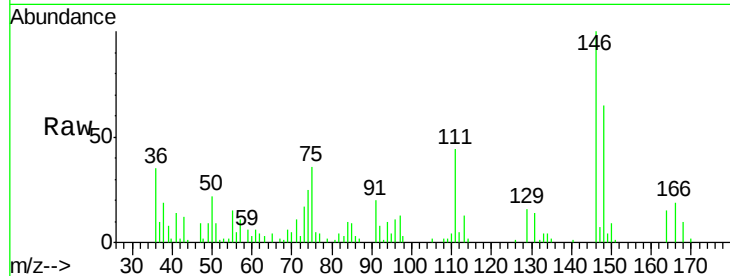




#66
Benzyl Chloride
Concen: 0.12 ppbv
RT: 19.39 min Scan# 2674
Delta R.T. 0.28 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

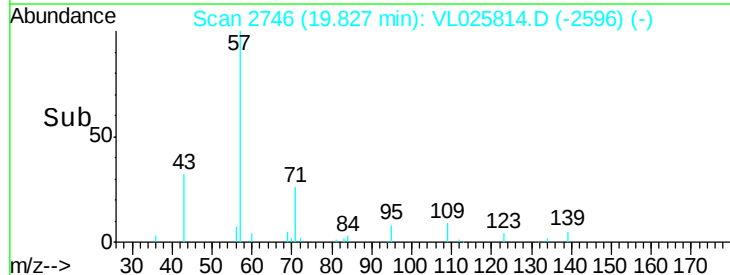
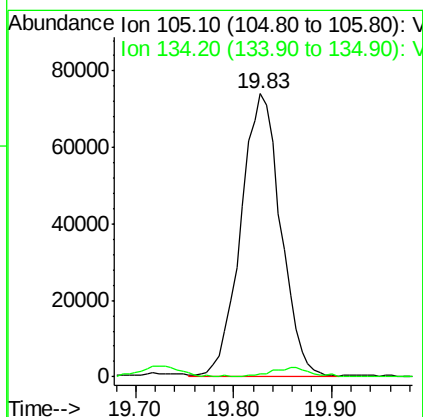
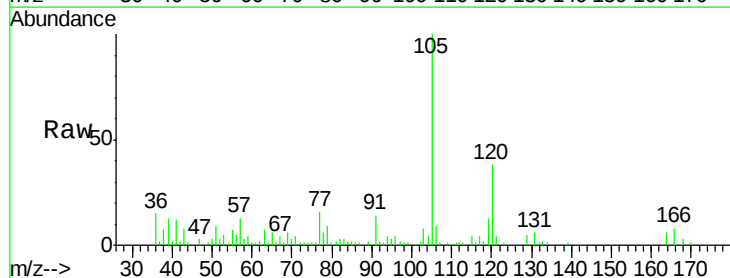
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

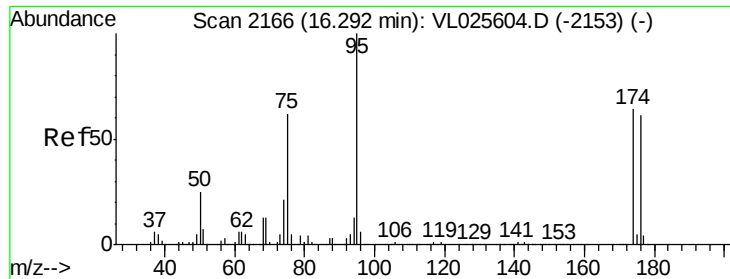
Tgt Ion: 91 Resp: 17512
Ion Ratio Lower Upper
91 100
126 1.4 14.5 21.7#
128 0.0 4.6 7.0#



#67
sec-Butylbenzene
Concen: 0.36 ppbv
RT: 19.83 min Scan# 2746
Delta R.T. 0.41 min
Lab File: VL025814.D
Acq: 31 Jul 2015 15:48

Tgt Ion: 105 Resp: 210346
Ion Ratio Lower Upper
105 100
134 3.2 15.4 23.2#

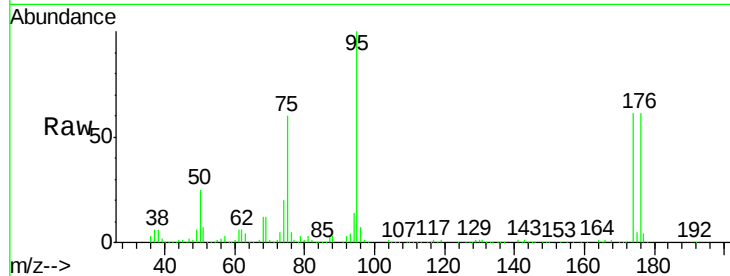




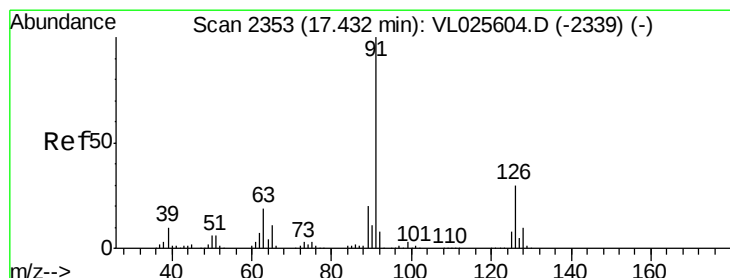
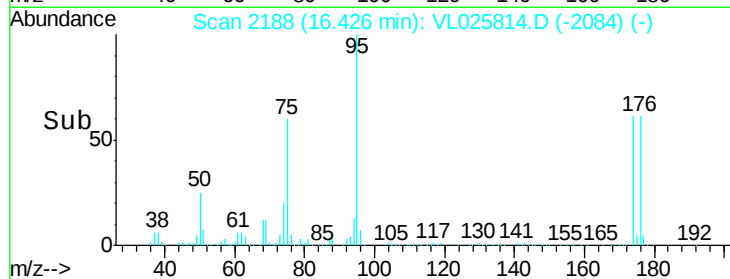
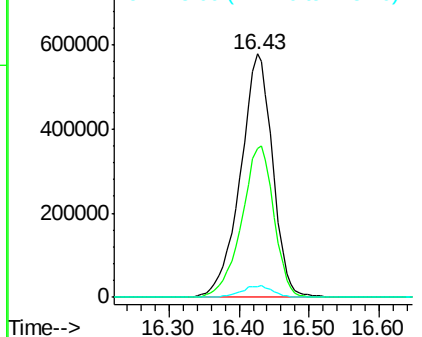
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.46 ppbv
 RT: 16.43 min Scan# 2188
 Delta R.T. 0.13 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion: 95 Resp: 1826560
 Ion Ratio Lower Upper
 95 100
 174 63.0 52.0 78.0
 175 4.9 3.9 5.9

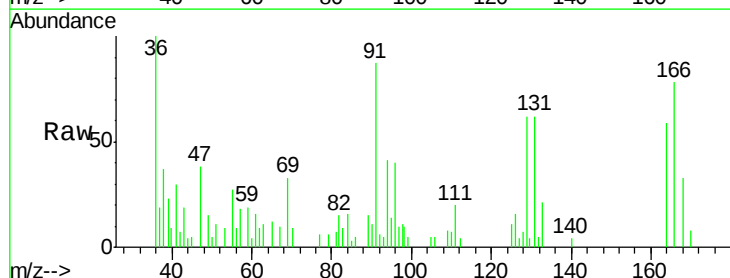


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

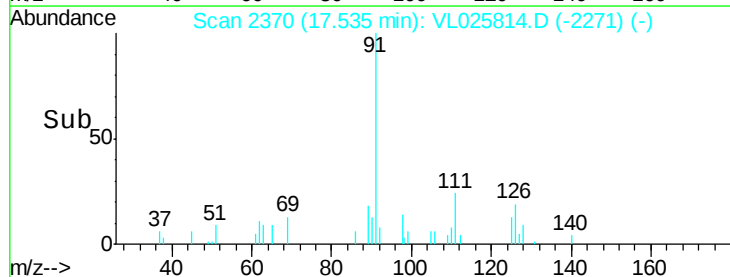
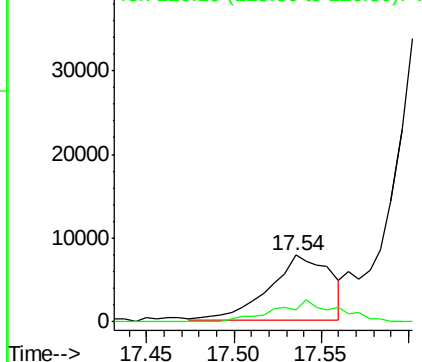


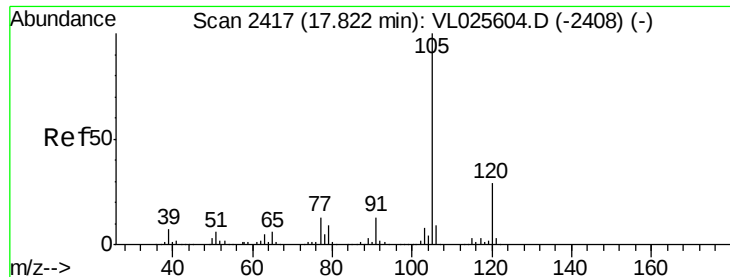
#71
 2-Chlorotoluene
 Concen: 0.06 ppbv
 RT: 17.54 min Scan# 2370
 Delta R.T. 0.10 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Tgt Ion: 91 Resp: 19018
 Ion Ratio Lower Upper
 91 100
 126 34.3 12.2 49.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.89 ppbv

RT: 18.08 min Scan# 2460

Delta R.T. 0.26 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion:105 Resp: 318835

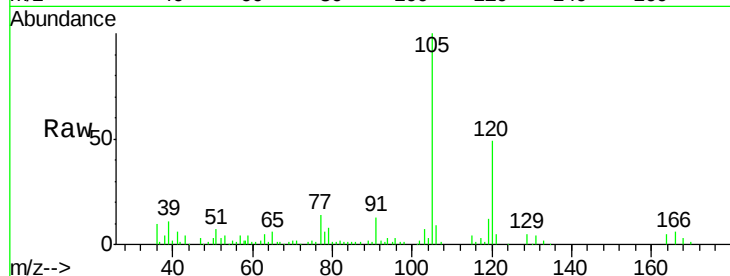
Ion Ratio Lower Upper

105 100

120 46.9 23.9 35.9#

91 14.3 10.3 15.5

77 16.2 10.9 16.3

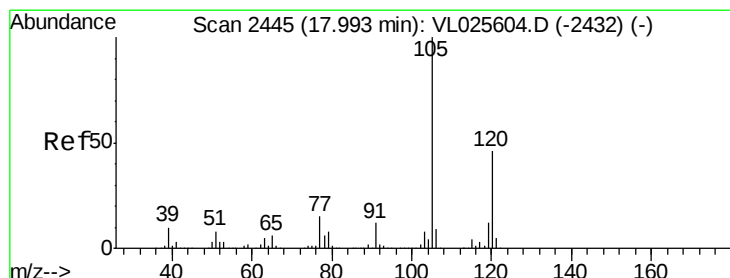
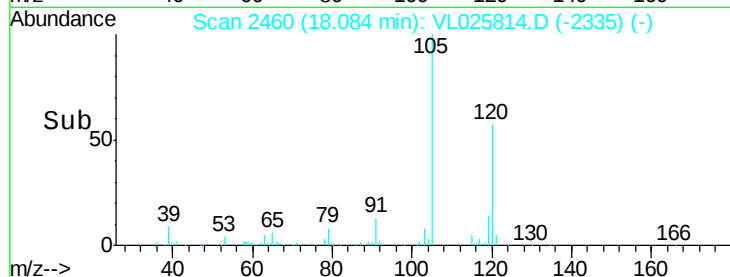
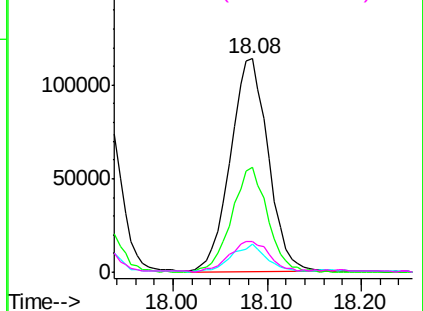


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.74 ppbv

RT: 18.45 min Scan# 2520

Delta R.T. 0.46 min

Lab File: VL025814.D

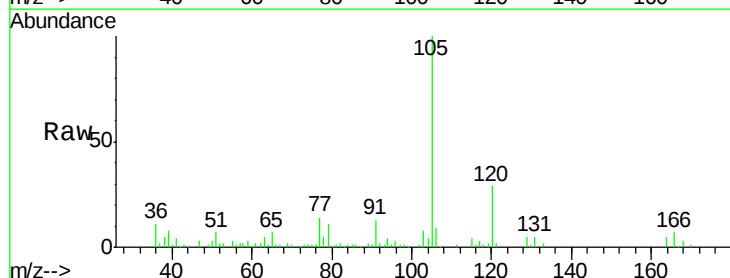
Acq: 31 Jul 2015 15:48

Tgt Ion:105 Resp: 258832

Ion Ratio Lower Upper

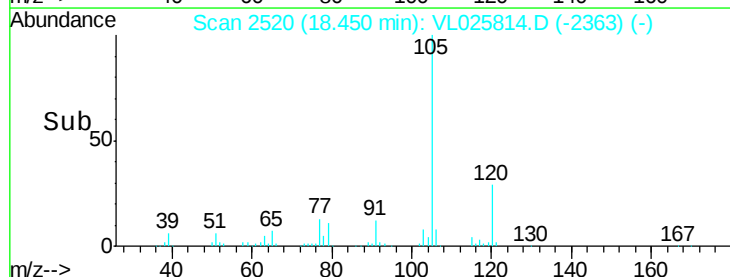
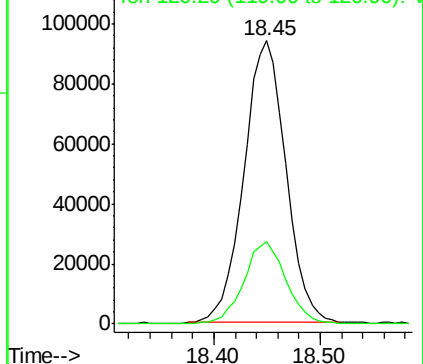
105 100

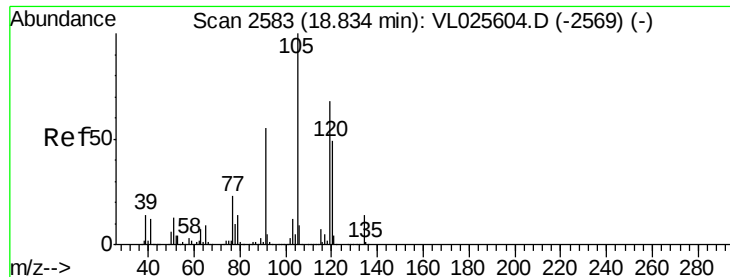
120 29.3 37.0 55.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

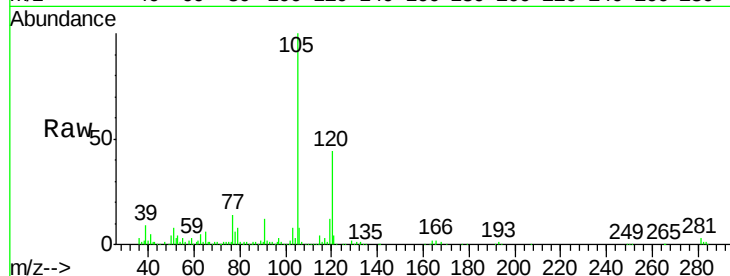




#74
 1,2,4-Trimethylbenzene
 Concen: 2.53 ppbv
 RT: 18.91 min Scan# 2596
 Delta R.T. 0.08 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.6	39.3	58.9
91	12.2	43.8	65.6#
77	14.1	18.3	27.5#



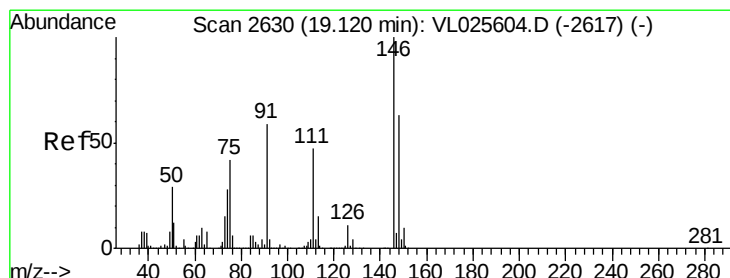
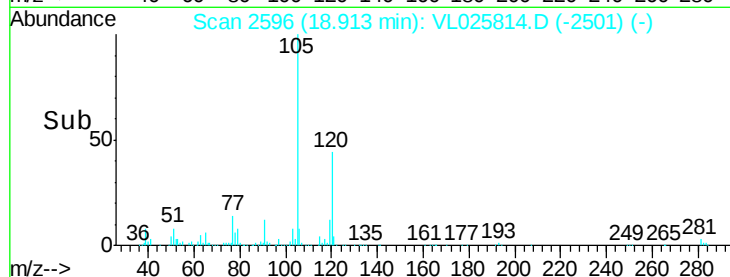
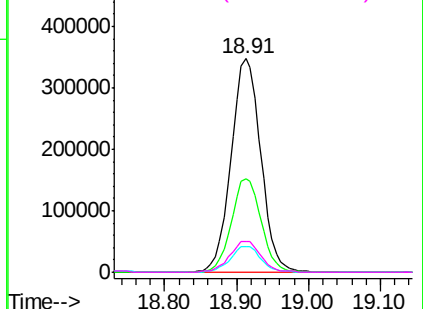
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

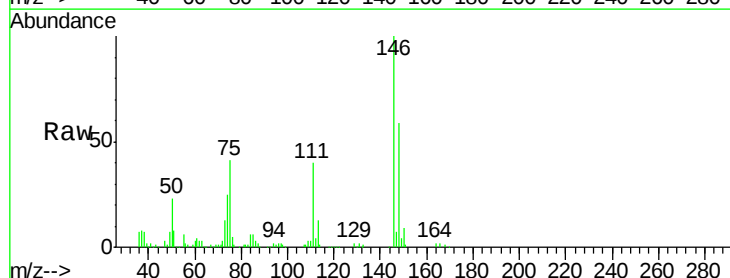
Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75
 1,3-Dichlorobenzene
 Concen: 2.13 ppbv
 RT: 19.35 min Scan# 2668
 Delta R.T. 0.23 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.7	68.1
148	62.5	31.8	95.3

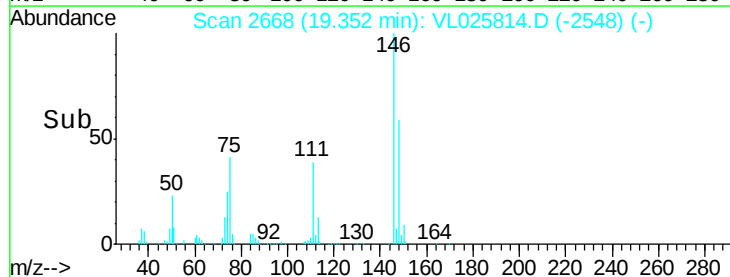
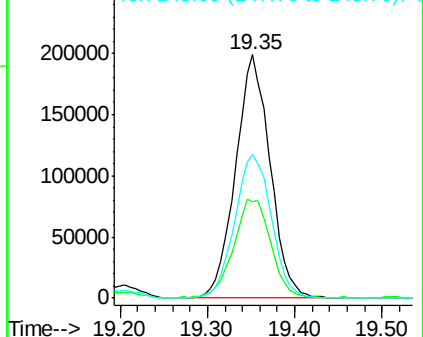


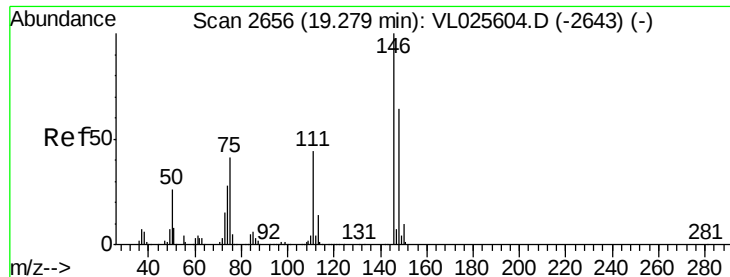
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 2.13 ppbv

RT: 19.35 min Scan# 2668

Delta R.T. 0.07 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

Instrument :

MSVOA_L

ClientSampled :

INFLUENT

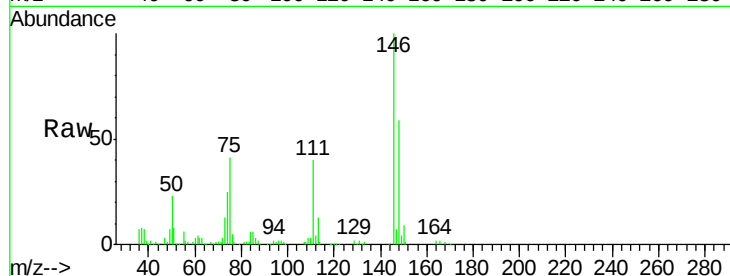
Tgt Ion:146 Resp: 546935

Ion Ratio Lower Upper

146 100

111 43.1 22.1 66.1

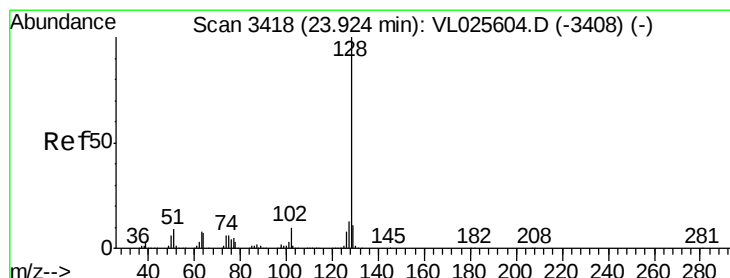
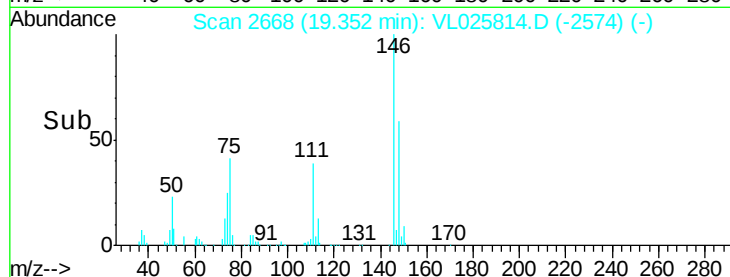
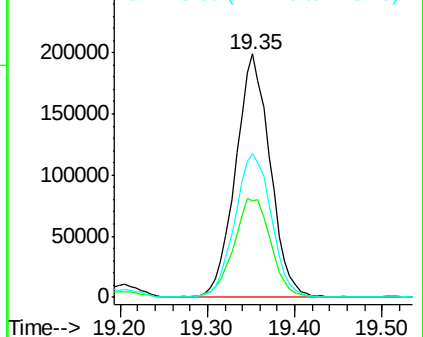
148 62.5 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.39 ppbv

RT: 23.96 min Scan# 3424

Delta R.T. 0.04 min

Lab File: VL025814.D

Acq: 31 Jul 2015 15:48

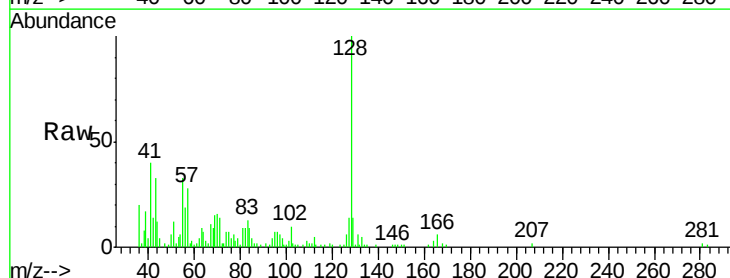
Tgt Ion:128 Resp: 148553

Ion Ratio Lower Upper

128 100

127 14.8 10.8 16.2

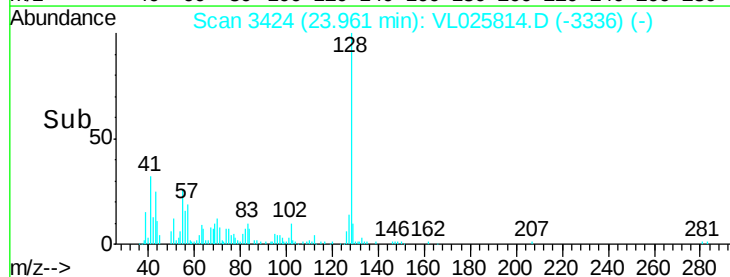
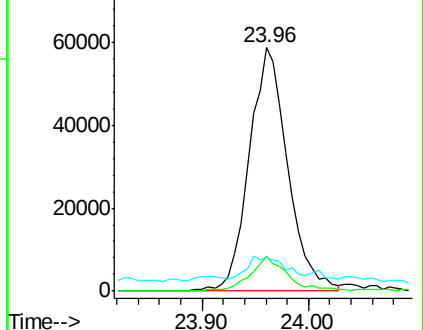
129 9.7 9.0 13.4

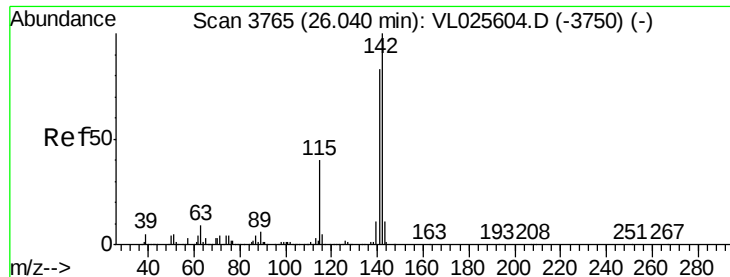


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

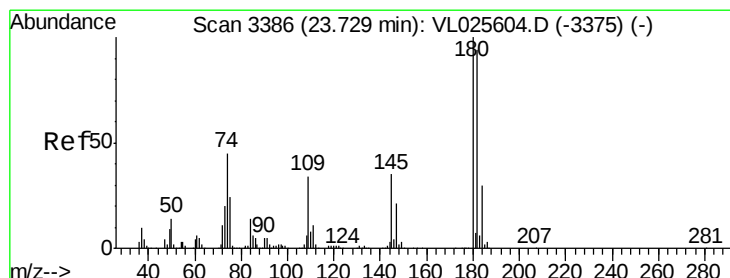
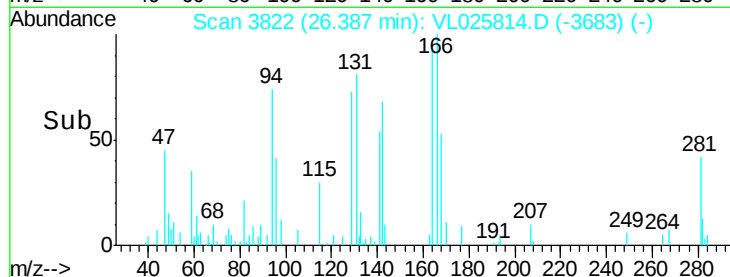
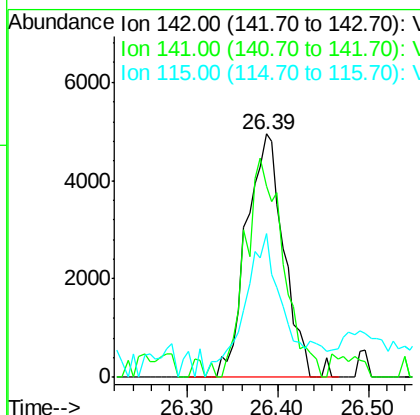
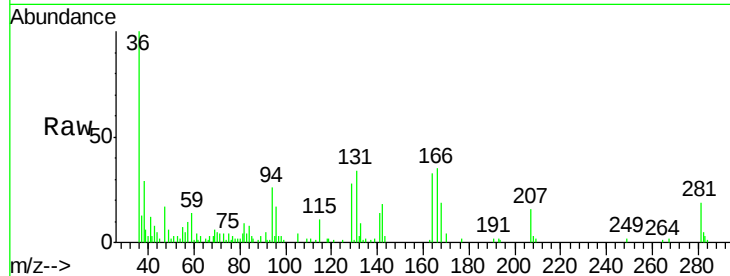




#80
 Naphthalene, 2-methyl-
 Concen: 0.13 ppbv
 RT: 26.39 min Scan# 3822
 Delta R.T. 0.35 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion:142 Resp: 14099
 Ion Ratio Lower Upper
 142 100
 141 92.1 67.1 100.7
 115 69.0 33.9 50.9#



#81
 1,2,4-Trichlorobenzene
 Concen: 0.18 ppbv
 RT: 24.48 min Scan# 3509
 Delta R.T. 0.75 min
 Lab File: VL025814.D
 Acq: 31 Jul 2015 15:48

Tgt Ion:180 Resp: 32668
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.1 114.1#
 184 0.0 24.4 36.6#

