

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026661.D
 Acq On : 9 Jan 2016 5:09
 Operator : SY/AP
 Sample : H1002-17
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Quant Time: Jan 12 02:02:52 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	675113	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2139698	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2885040	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	2367031	10.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	89813	0.50	ppbv	98
3) Chlorodifluoromethane	3.57	51	42288	0.47	ppbv	98
4) Chloromethane	3.75	50	17961	0.41	ppbv	93
5) Vinyl Chloride	3.88	62	19753	0.37	ppbv #	83
6) Bromomethane	4.14	94	14957	0.39	ppbv	86
7) Chloroethane	4.24	64	9250	0.43	ppbv	95
8) Dichlorotetrafluoroethane	3.79	85	65872	0.47	ppbv	98
9) Propene	3.59	41	11115	0.34	ppbv	88
10) Heptane	9.34	43	42980	0.36	ppbv	89
11) Trichlorofluoromethane	4.68	101	97964	0.53	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	5.29	101	55167	0.48	ppbv	97
13) Ethanol	4.35	45	2077	0.34	ppbv	88
14) Bromoethene	4.45	108	16763	0.41	ppbv	88
15) Acetone	4.62	43	61186	0.55	ppbv #	48
16) 1,3-Butadiene	3.96	39	18345	0.41	ppbv	92
18) 1,1-Dichloroethene	5.07	96	21773	0.46	ppbv #	84
19) Isopropyl Alcohol	4.78	45	17007	0.37	ppbv #	96
20) Methylene Chloride	5.14	84	22453	0.49	ppbv	96
21) Allvl Chloride	5.21	41	26261	0.39	ppbv #	68
22) trans-1,2-Dichloroethene	5.76	96	23833	0.44	ppbv	85
23) Vinyl Acetate	5.98	43	59798	0.35	ppbv	98
24) 1,1-Dichloroethane	5.90	63	51650	0.42	ppbv	95
25) Ethyl Acetate	6.68	43	63183	0.37	ppbv #	96
26) Hexane	6.64	57	31761	0.36	ppbv	97
27) Carbon Disulfide	5.37	76	54717	0.42	ppbv #	85
28) Methyl tert-Butyl Ether	5.96	73	66694	0.38	ppbv	99
29) Chloroform	6.73	83	79489	0.49	ppbv	91
30) Cyclohexane	8.27	84	32218	0.37	ppbv #	27
31) cis-1,2-Dichloroethene	6.50	61	32514	0.36	ppbv	87
32) 1,1,1-Trichloroethane	7.57	97	77866	0.43	ppbv	99
34) 2-Butanone	6.21	43	41192	0.36	ppbv	98
35) Carbon Tetrachloride	8.13	117	78105	0.41	ppbv	92
36) Benzene	8.01	78	73820	0.34	ppbv	95
37) 1,2-Dichloroethane	7.35	62	61762	0.41	ppbv	100
38) Trichloroethene	9.05	130	36972	0.38	ppbv	91
39) 1,2-Dichloropropane	8.80	63	30057	0.39	ppbv	88
40) 1,4-Dioxane	9.18	88	4290	0.25	ppbv #	1
41) Tetrahydrofuran	7.14	42	6828	0.12	ppbv #	28
42) Bromodichloromethane	9.00	83	79769	0.41	ppbv #	91
43) Methyl Methacrylate	9.26	69	22912	0.28	ppbv	95
44) 2,2,4-Trimethylpentane	9.06	57	121720	0.34	ppbv	98

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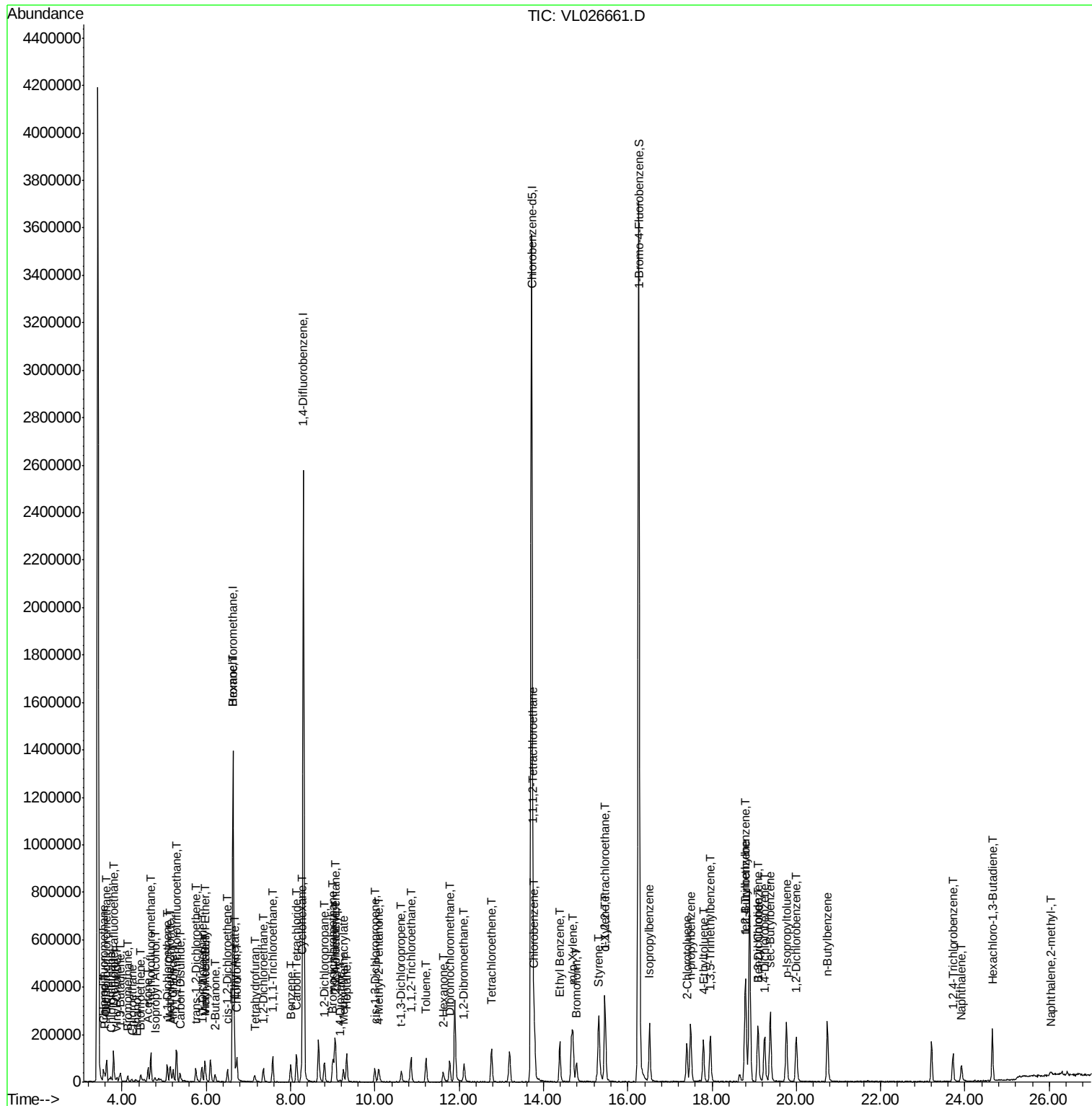
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	10.63	75	35665	0.27	ppbv	97
46) cis-1,3-Dichloropropene	10.00	75	42195	0.28	ppbv #	91
47) 1,1,2-Trichloroethane	10.86	97	43215	0.40	ppbv	98
48) Dibromochloromethane	11.77	129	64149	0.39	ppbv	99
49) Bromoform	14.79	173	52066	0.39	ppbv	97
50) 4-Methyl-2-Pentanone	10.09	43	44410	0.28	ppbv	97
51) 2-Hexanone	11.62	43	36523	0.25	ppbv #	95
52) Tetrachloroethene	12.77	164	42893	0.39	ppbv	95
53) Toluene	11.21	91	100491	0.32	ppbv	95
54) 1,2-Dibromoethane	12.12	107	69819	0.41	ppbv	94
56) 1,1,1,2-Tetrachloroethane	13.76	131	56643	0.43	ppbv #	1
57) Chlorobenzene	13.79	112	142496	0.48	ppbv	91
58) Ethyl Benzene	14.39	91	166396	0.32	ppbv	98
59) m/p-Xylene	14.69	91	326847	0.77	ppbv	98
60) o-Xylene	15.47	91	197632	0.43	ppbv	99
61) Styrene	15.29	104	53559	0.30	ppbv	99
62) Isopropylbenzene	16.52	105	245893	0.40	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.45	83	149632	0.44	ppbv	99
64) n-propylbenzene	17.50	120	63590	0.39	ppbv	87
65) tert-Butylbenzene	18.79	119	235875	0.42	ppbv	94
66) Benzyl Chloride	19.08	91	60039	0.30	ppbv	95
67) sec-Butylbenzene	19.38	105	336786	0.41	ppbv	98
69) p-Isopropyltoluene	19.77	119	231281	0.37	ppbv	98
70) n-Butylbenzene	20.74	91	228272	0.35	ppbv	95
71) 2-Chlorotoluene	17.40	91	151666	0.32	ppbv	97
72) 4-Ethyltoluene	17.80	105	181572	0.35	ppbv	97
73) 1,3,5-Trimethylbenzene	17.96	105	182239	0.37	ppbv	95
74) 1,2,4-Trimethylbenzene	18.80	105	222350	0.43	ppbv #	86
75) 1,3-Dichlorobenzene	19.10	146	144670	0.45	ppbv	98
76) 1,4-Dichlorobenzene	19.25	146	142698	0.44	ppbv	98
77) 1,2-Dichlorobenzene	20.00	146	136407	0.42	ppbv	98
78) Hexachloro-1,3-Butadiene	24.65	225	52523	0.40	ppbv	96
79) Naphthalene	23.92	128	86001	0.25	ppbv	99
80) Naphthalene,2-methyl-	26.03	142	15368	0.28	ppbv #	84
81) 1,2,4-Trichlorobenzene	23.72	180	49002	0.31	ppbv	97

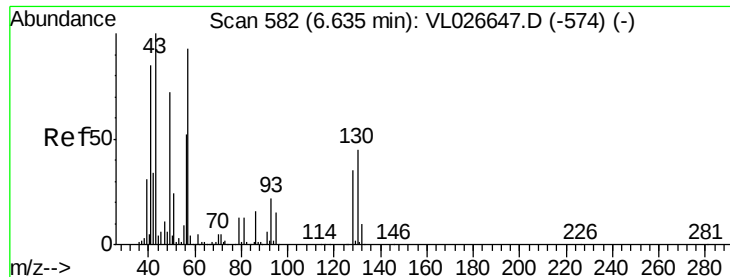
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

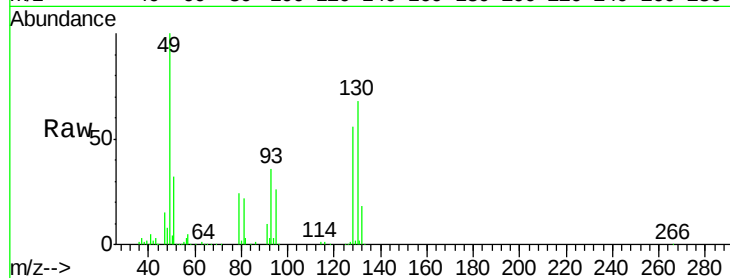
Tot Ion: 49 Resp: 675113

Ion Ratio Lower Upper

49 100

128 58.0 25.9 77.7

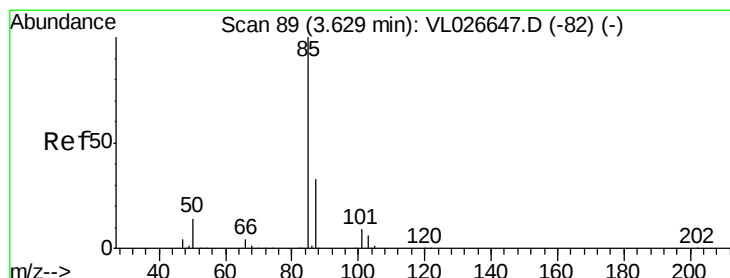
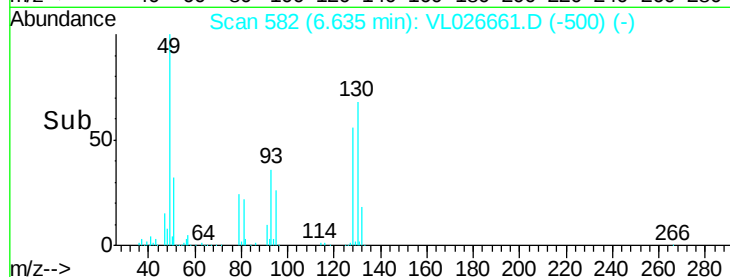
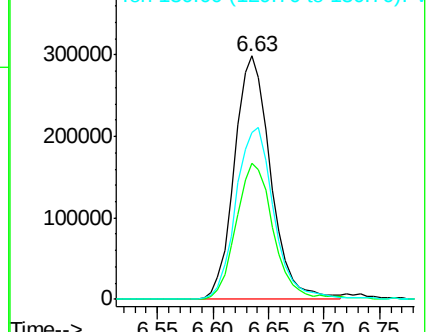
130 75.5 33.6 100.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.50 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026661.D

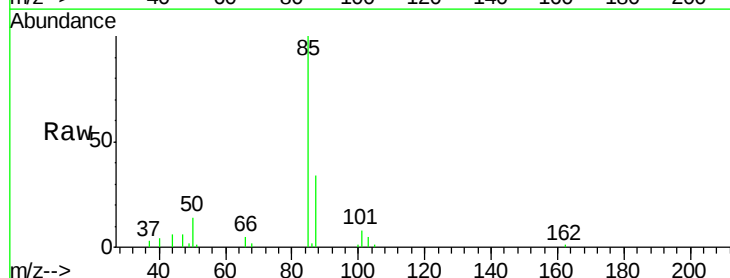
Acq: 9 Jan 2016 5:09

Tgt Ion: 85 Resp: 89813

Ion Ratio Lower Upper

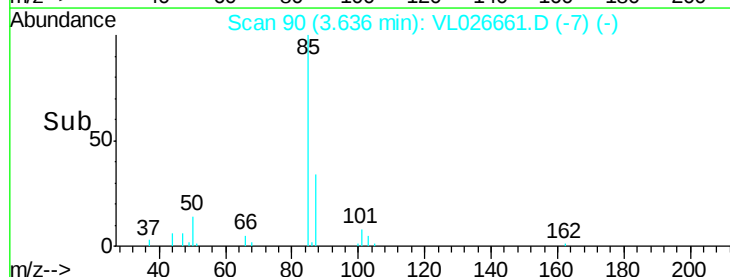
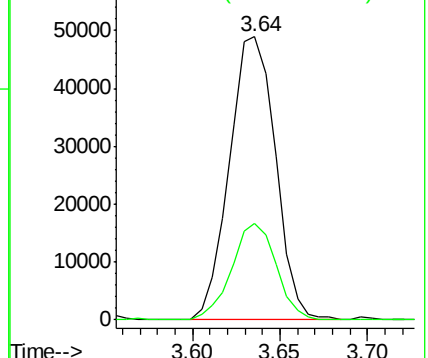
85 100

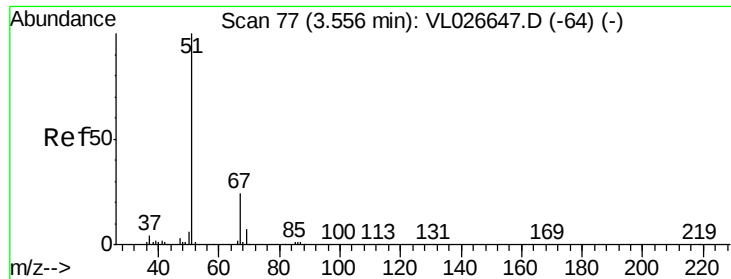
87 34.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.47 ppbv

RT: 3.57 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

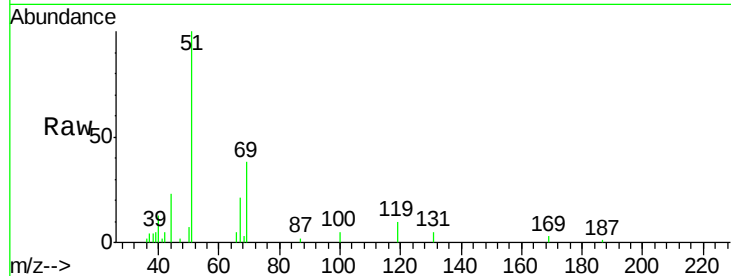
MDL-AIR-3

Tot Ion: 51 Resp: 42288

Ion Ratio Lower Upper

51 100

67 22.5 18.6 28.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.57

20000

15000

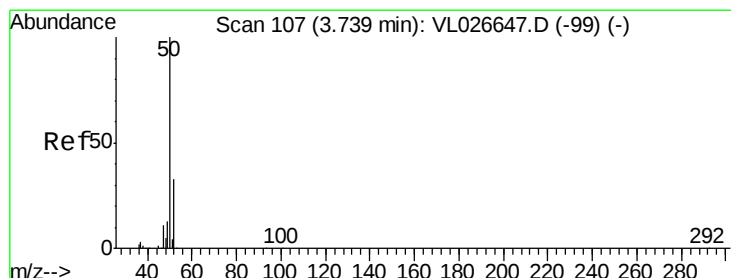
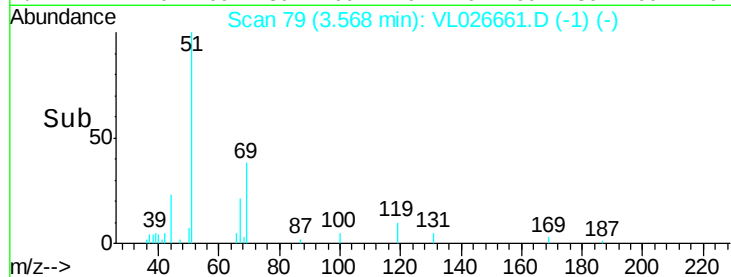
10000

5000

0

Time-->

3.40 3.50 3.60 3.70



#4

Chloromethane

Concen: 0.41 ppbv

RT: 3.75 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL026661.D

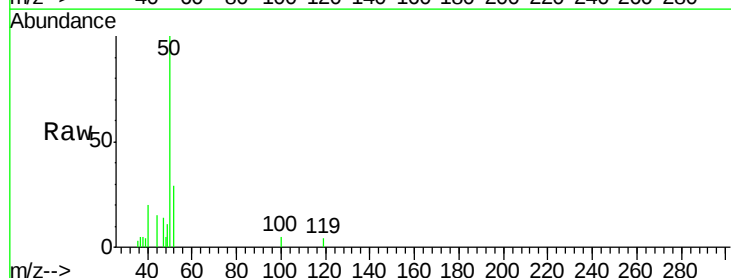
Acq: 9 Jan 2016 5:09

Tgt Ion: 50 Resp: 17961

Ion Ratio Lower Upper

50 100

52 29.3 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.75

10000

8000

6000

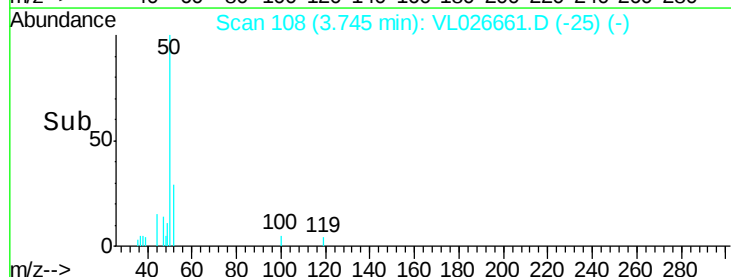
4000

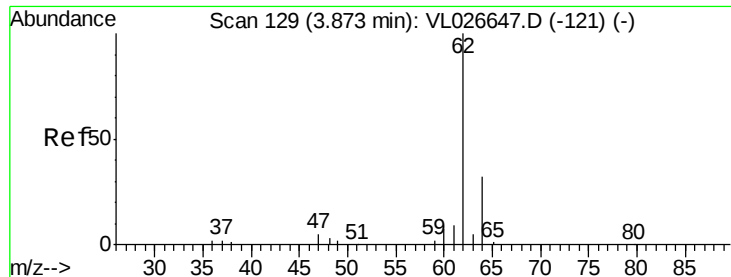
2000

0

Time-->

3.70 3.75 3.80





#5

Vinyl Chloride

Concen: 0.37 ppbv

RT: 3.88 min Scan# 130

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

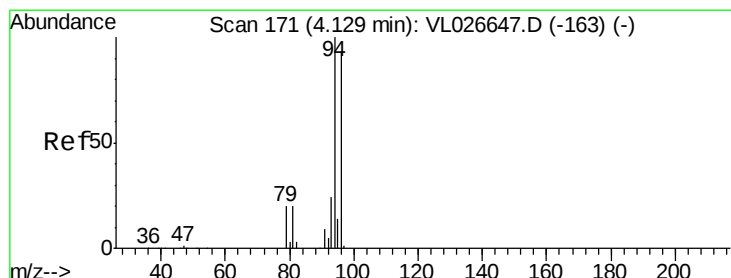
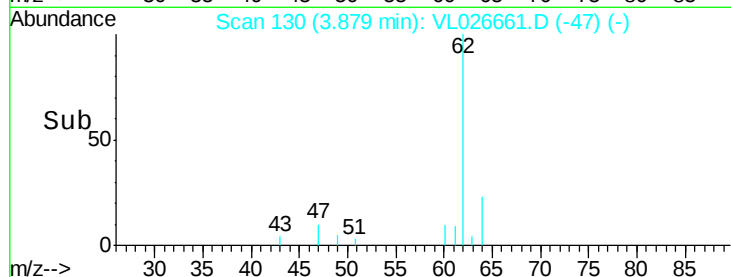
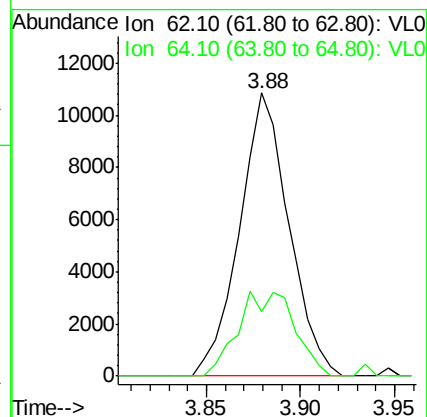
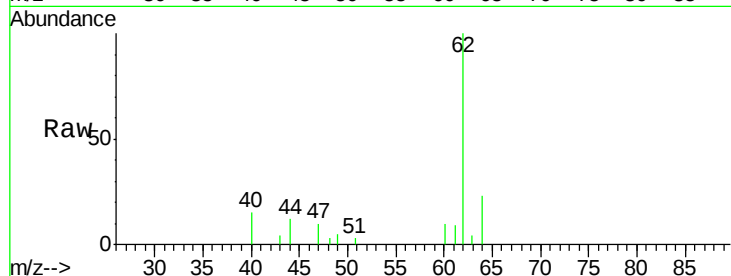
MDL-AIR-3

Tot Ion: 62 Resp: 19753

Ion Ratio Lower Upper

62 100

64 22.8 25.6 38.4#



#6

Bromomethane

Concen: 0.39 ppbv

RT: 4.14 min Scan# 172

Delta R.T. 0.01 min

Lab File: VL026661.D

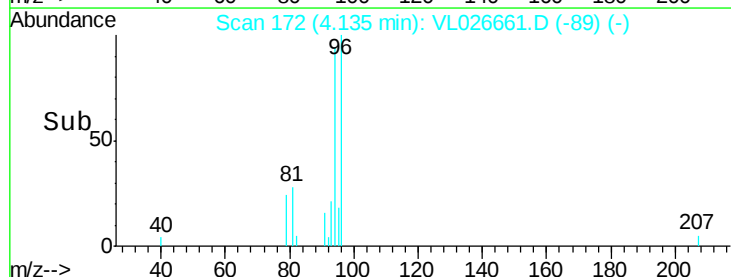
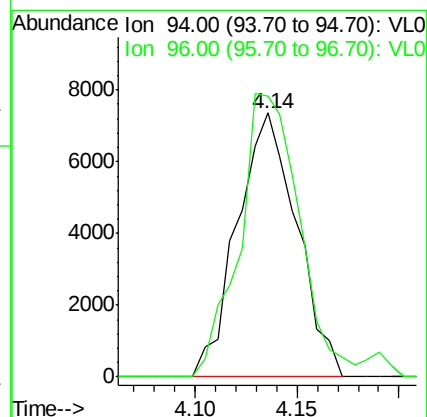
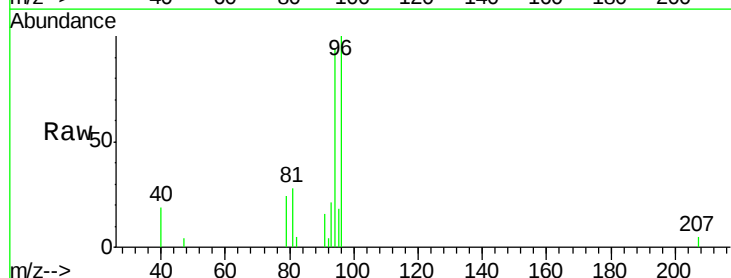
Acq: 9 Jan 2016 5:09

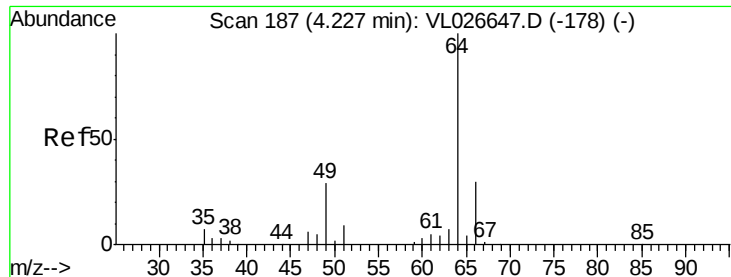
Tgt Ion: 94 Resp: 14957

Ion Ratio Lower Upper

94 100

96 106.5 74.6 112.0





#7

Chloroethane

Concen: 0.43 ppbv

RT: 4.24 min Scan# 189

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

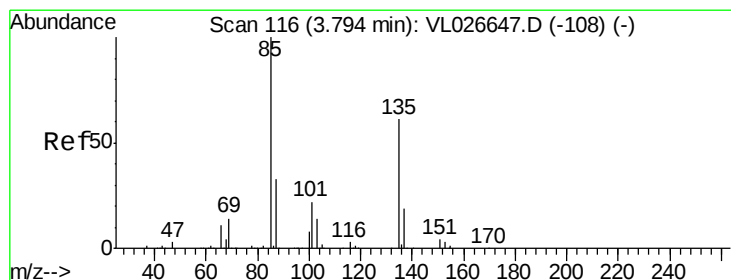
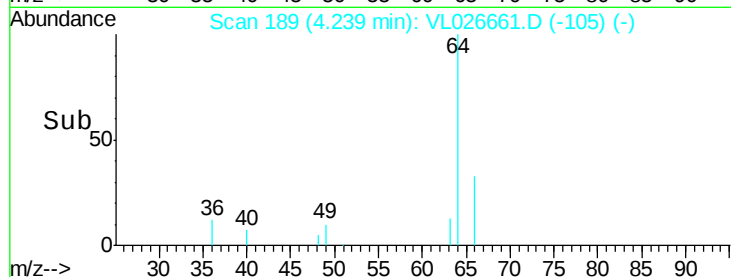
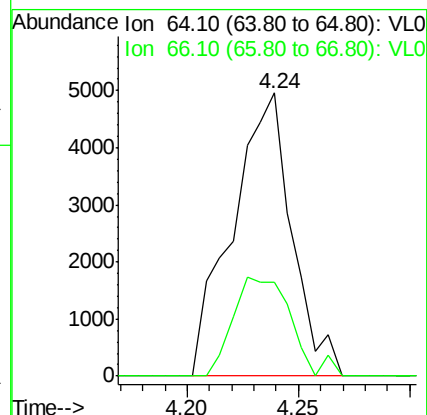
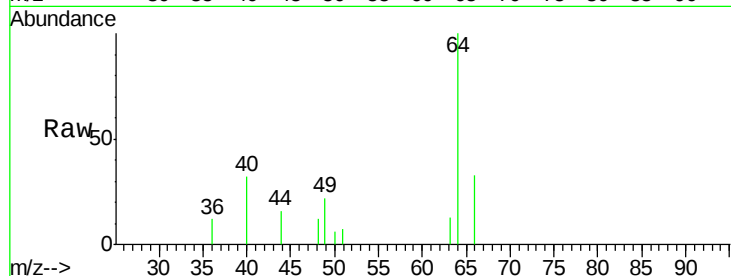
MDL-AIR-3

Tot Ion: 64 Resp: 9250

Ion Ratio Lower Upper

64 100

66 33.3 24.3 36.5



#8

Dichlorotetrafluoroethane

Concen: 0.47 ppbv

RT: 3.79 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL026661.D

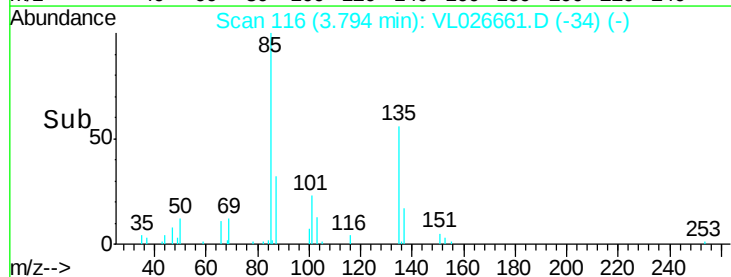
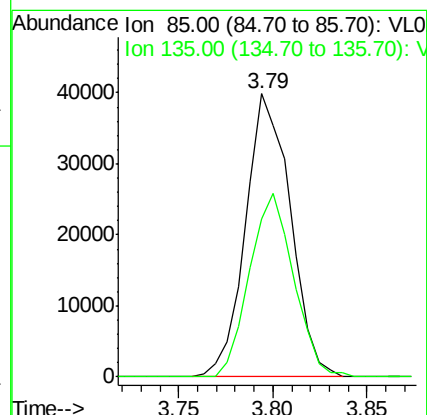
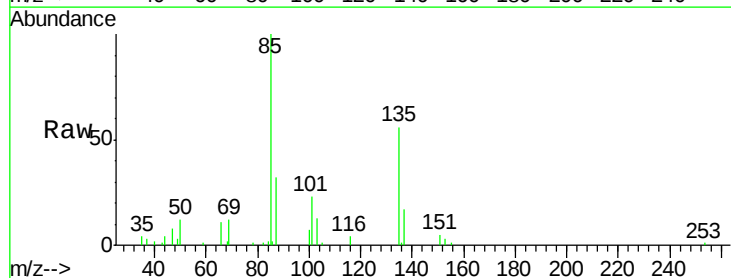
Acq: 9 Jan 2016 5:09

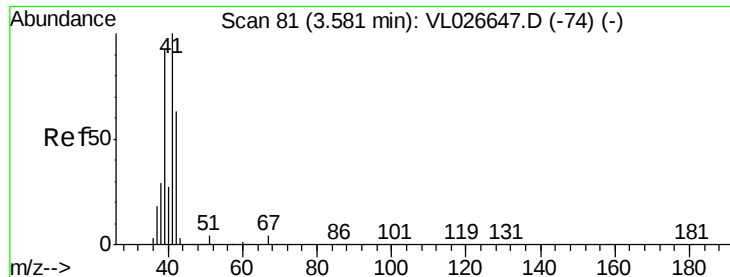
Tgt Ion: 85 Resp: 65872

Ion Ratio Lower Upper

85 100

135 63.8 49.8 74.6





#9

Propene

Concen: 0.34 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

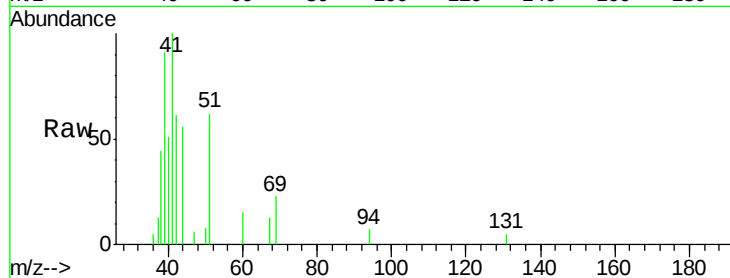
MDL-AIR-3

Tot Ion: 41 Resp: 11115

Ion Ratio Lower Upper

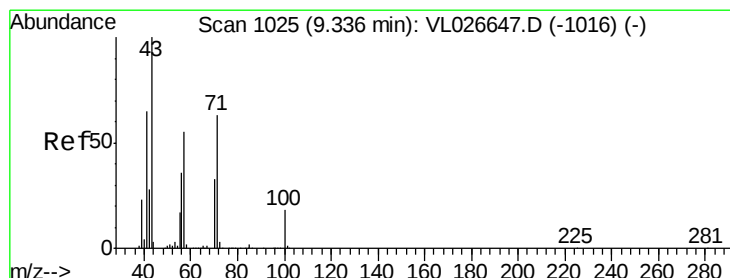
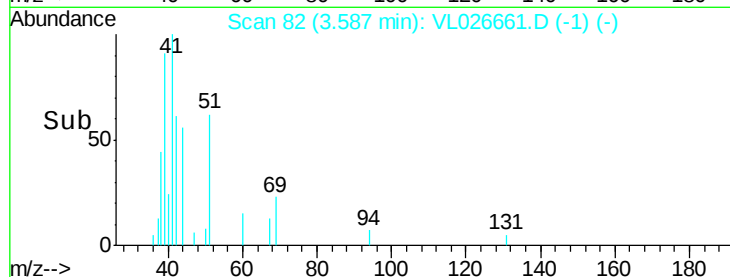
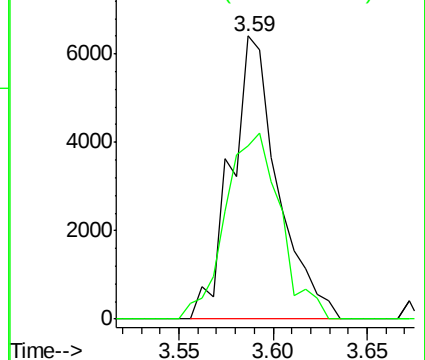
41 100

42 76.8 53.6 80.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.36 ppbv

RT: 9.34 min Scan# 1025

Delta R.T. 0.00 min

Lab File: VL026661.D

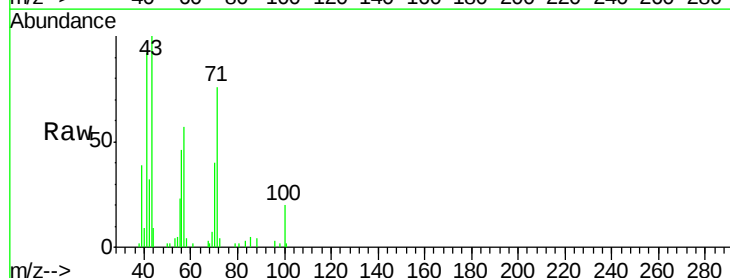
Acq: 9 Jan 2016 5:09

Tgt Ion: 43 Resp: 42980

Ion Ratio Lower Upper

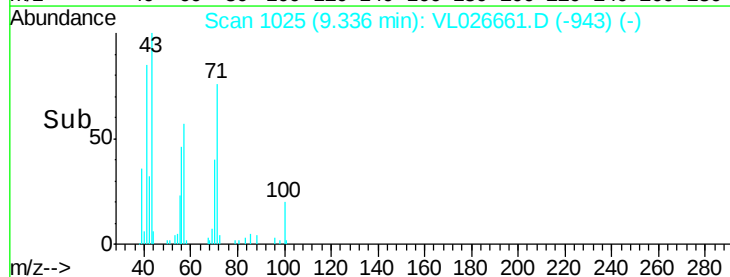
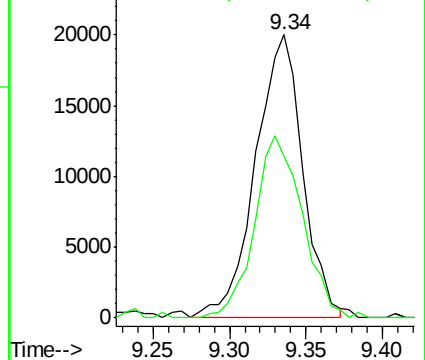
43 100

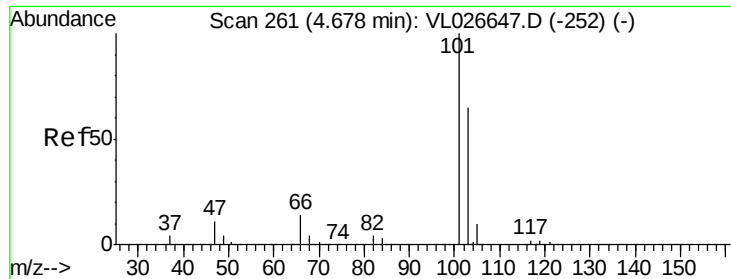
57 65.4 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.53 ppbv

RT: 4.68 min Scan# 262

Delta R.T. 0.01 min

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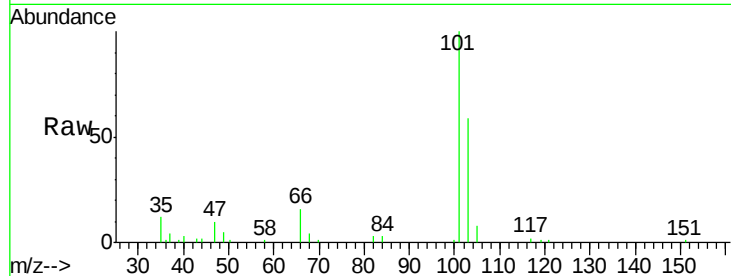
MDL-AIR-3

Tot Ion:101 Resp: 97964

Ion Ratio Lower Upper

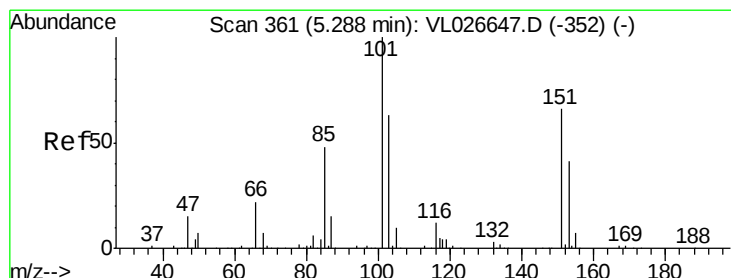
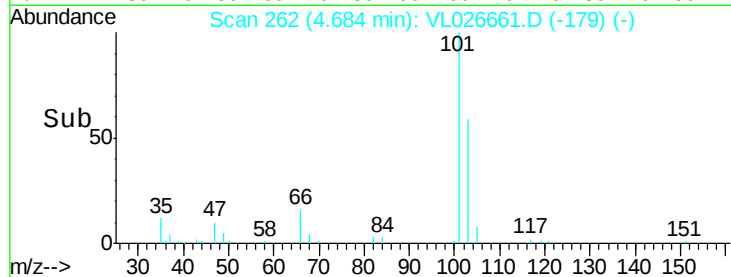
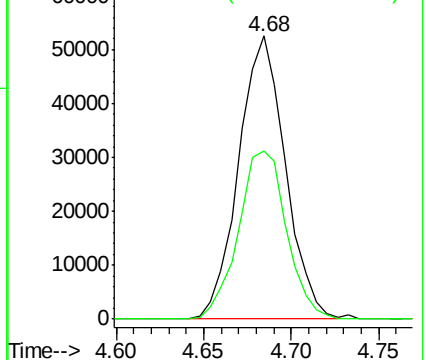
101 100

103 59.4 51.7 77.5



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: 0.48 ppbv

RT: 5.29 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL026661.D

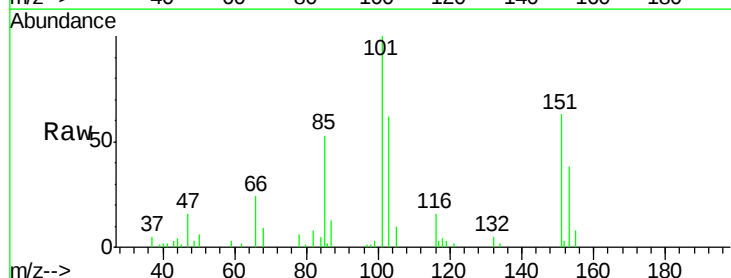
Acq: 9 Jan 2016 5:09

Tgt Ion:101 Resp: 55167

Ion Ratio Lower Upper

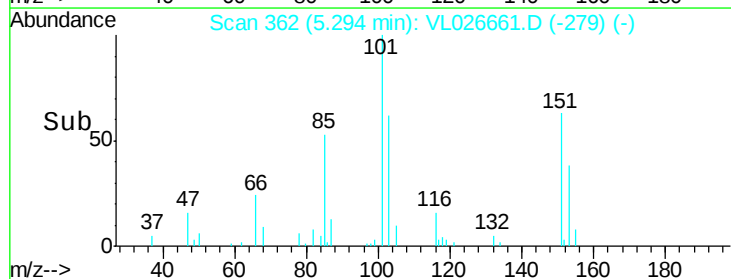
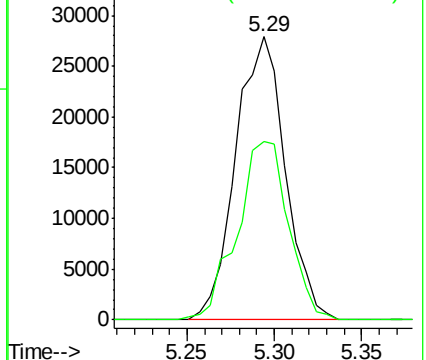
101 100

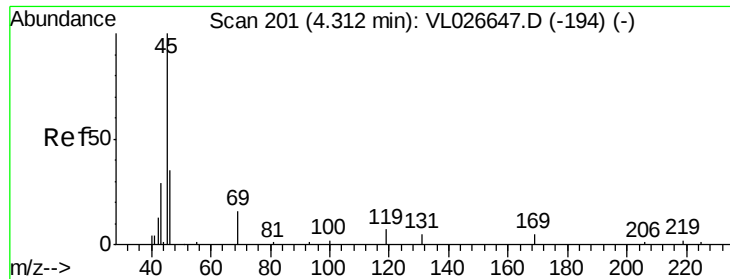
151 65.1 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.34 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.04 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

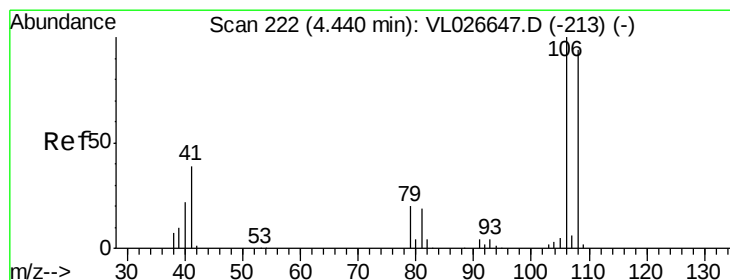
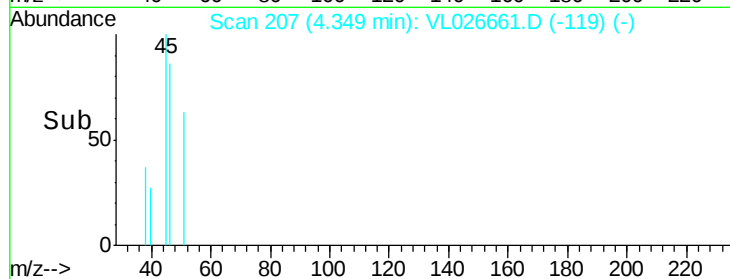
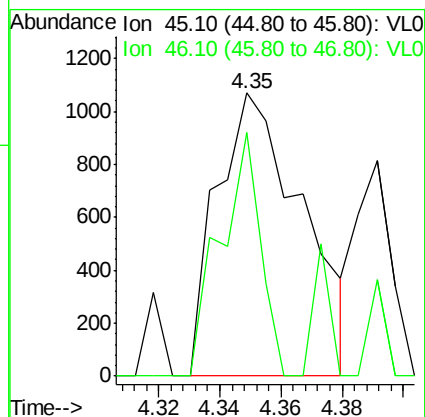
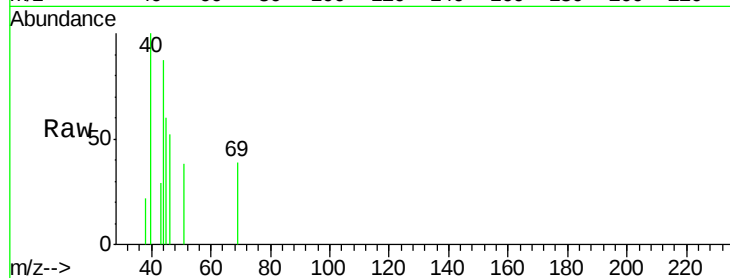
MDL-AIR-3

Tot Ion: 45 Resp: 2077

Ion Ratio Lower Upper

45 100

46 49.1 16.7 66.7



#14

Bromoethene

Concen: 0.41 ppbv

RT: 4.45 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

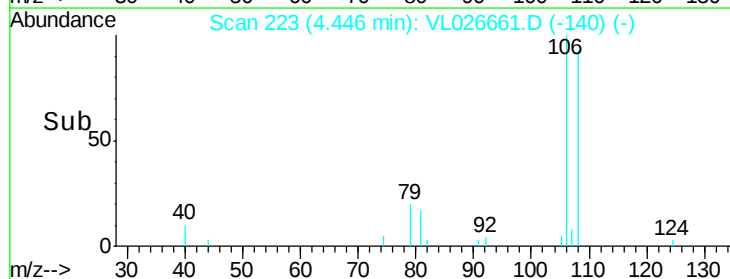
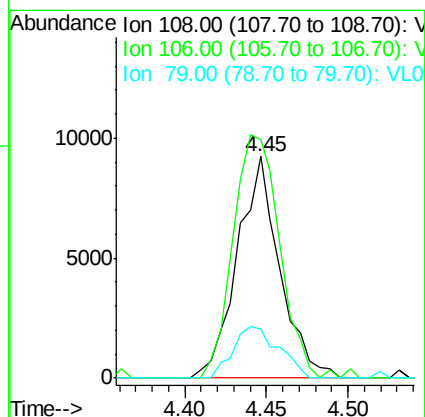
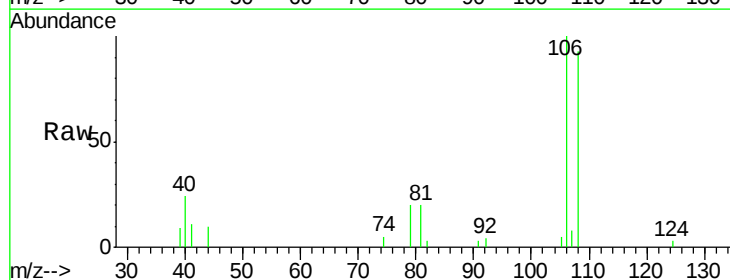
Tgt Ion: 108 Resp: 16763

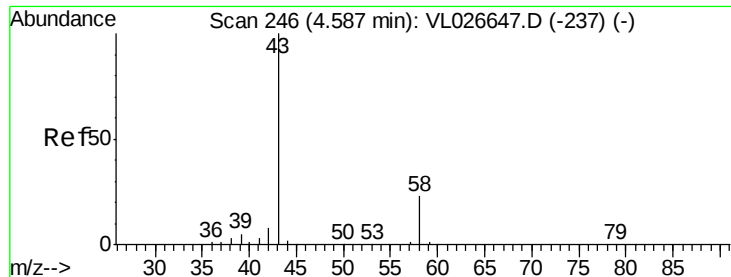
Ion Ratio Lower Upper

108 100

106 121.3 86.4 129.6

79 24.8 17.2 25.8





#15

Acetone

Concen: 0.55 ppbv

RT: 4.62 min Scan# 251

Delta R.T. 0.03 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

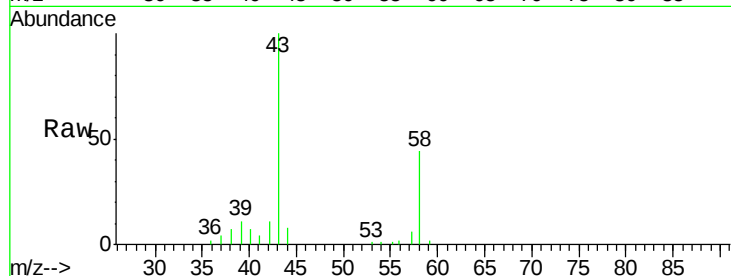
MDL-AIR-3

Tot Ion: 43 Resp: 61186

Ion Ratio Lower Upper

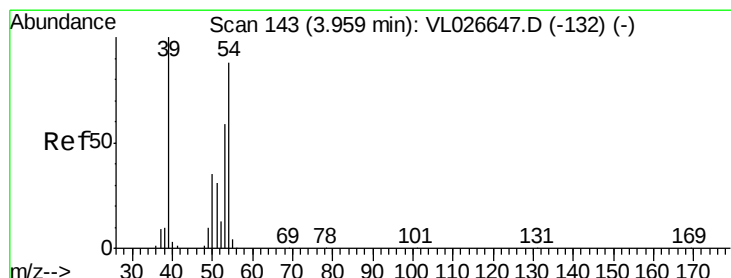
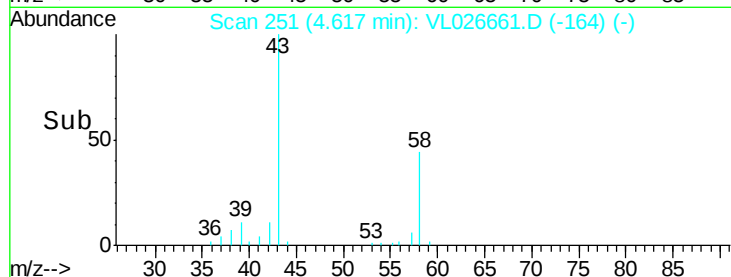
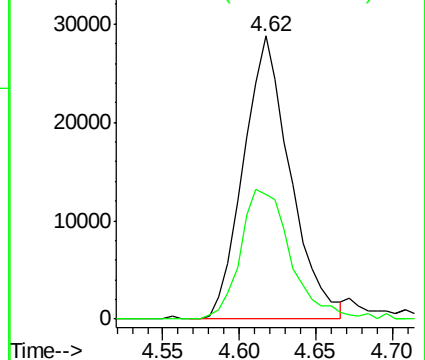
43 100

58 49.6 19.2 28.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.41 ppbv

RT: 3.96 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL026661.D

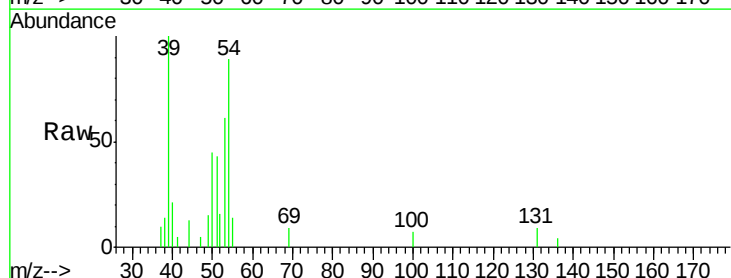
Acq: 9 Jan 2016 5:09

Tgt Ion: 39 Resp: 18345

Ion Ratio Lower Upper

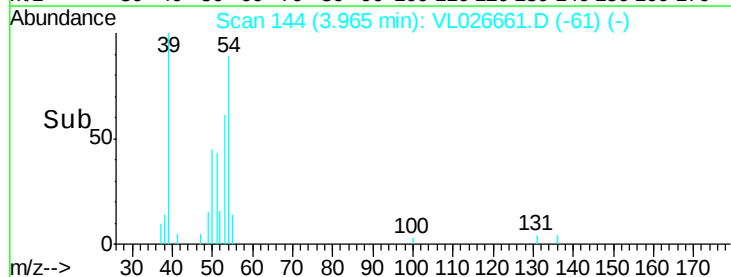
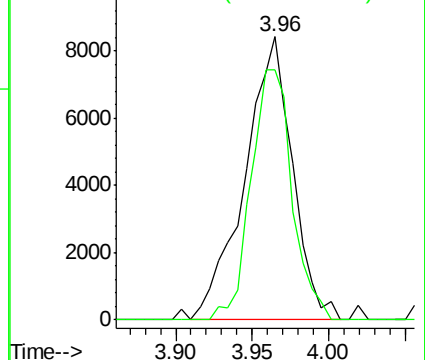
39 100

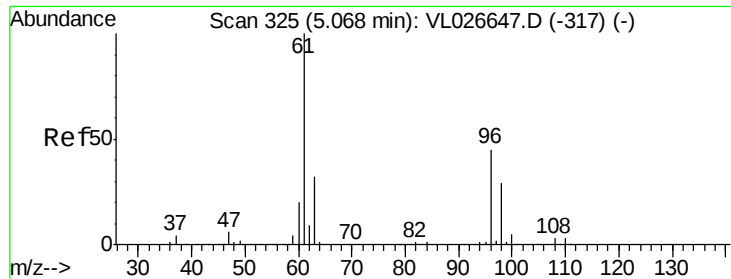
54 76.1 66.6 100.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#18

1,1-Dichloroethene

Concen: 0.46 ppbv

RT: 5.07 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

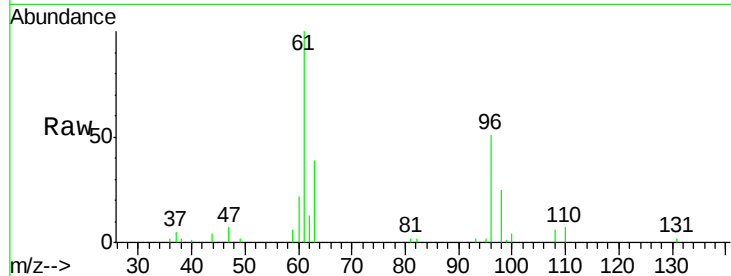
Tot Ion: 96 Resp: 21773

Ion Ratio Lower Upper

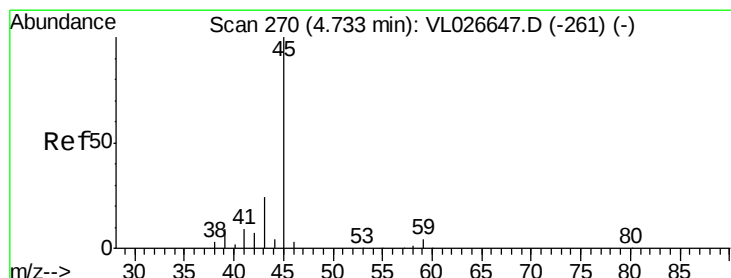
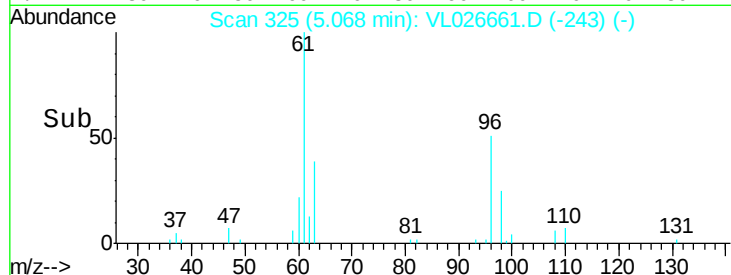
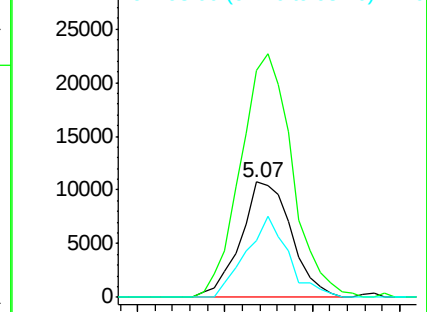
96 100

61 196.2 176.7 265.1

98 48.9 51.8 77.6#



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



#19

Isopropyl Alcohol

Concen: 0.37 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.04 min

Lab File: VL026661.D

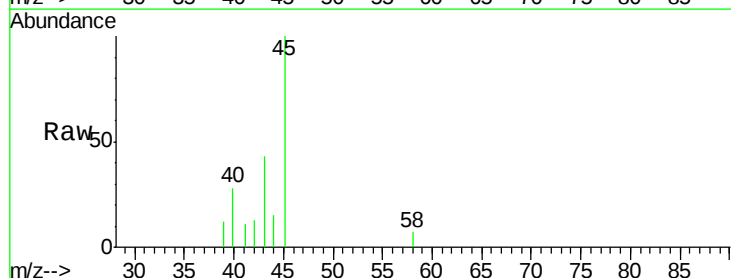
Acq: 9 Jan 2016 5:09

Tgt Ion: 45 Resp: 17007

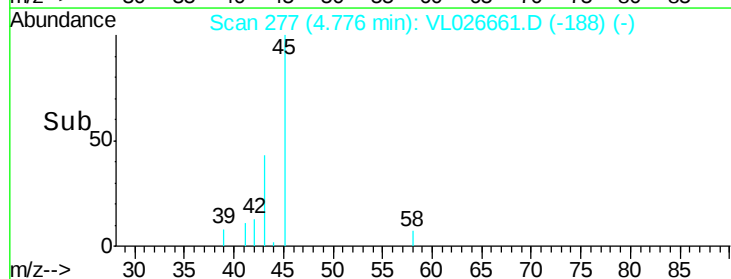
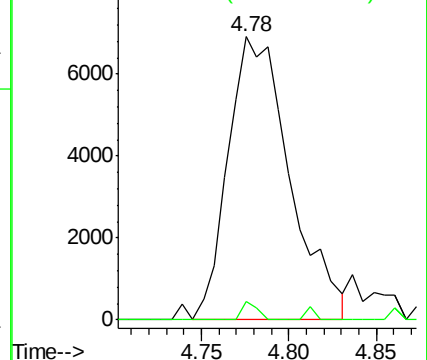
Ion Ratio Lower Upper

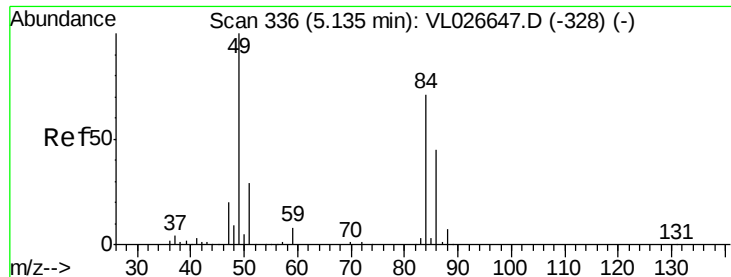
45 100

58 0.0 1.3 1.9#



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

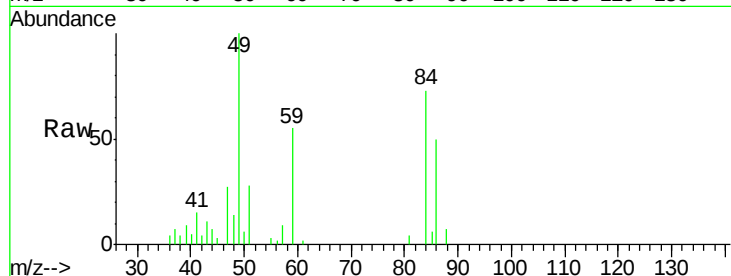




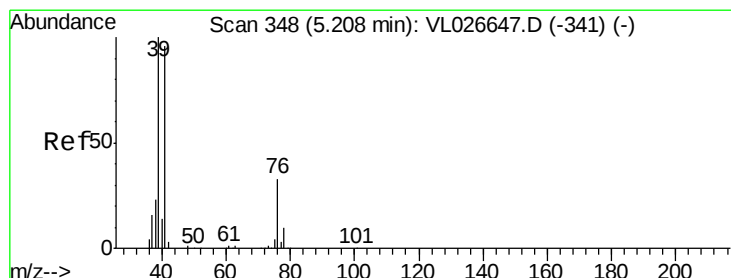
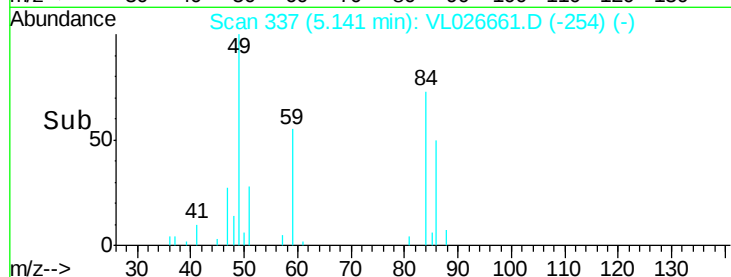
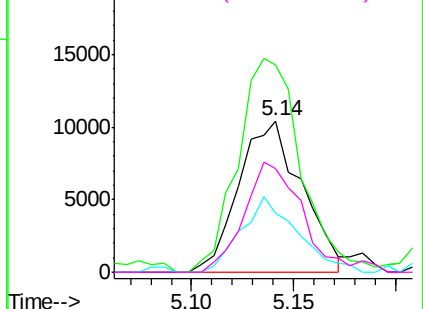
#20
Methvlene Chloride
Concen: 0.49 ppbv
RT: 5.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion:	84	Resp:	22453
Ion	Ratio	Lower	Upper
84	100		
49	137.4	112.3	168.5
51	38.8	32.5	48.7
86	68.2	50.3	75.5

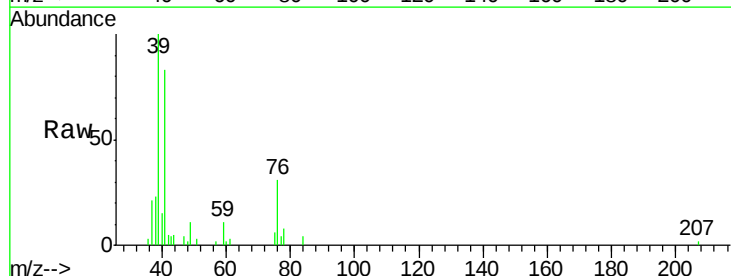


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

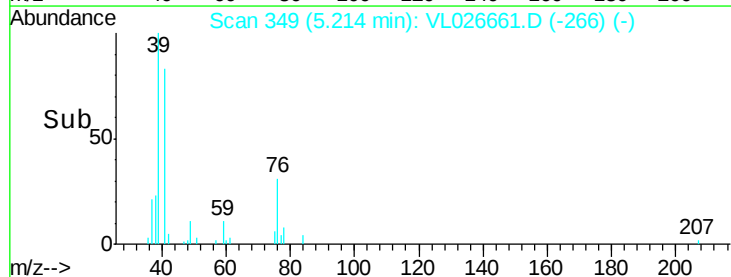
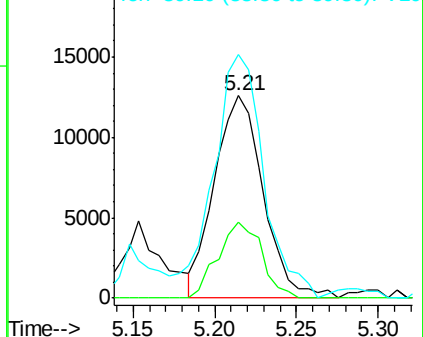


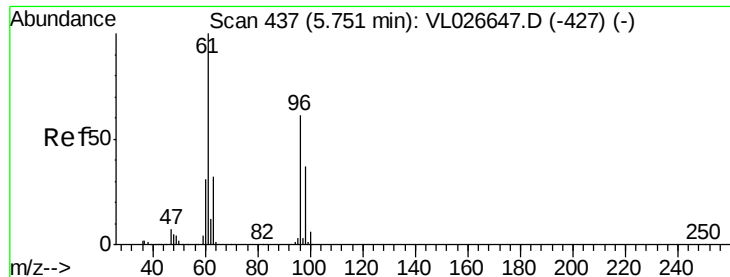
#21
Allyl Chloride
Concen: 0.39 ppbv
RT: 5.21 min Scan# 349
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion:	41	Resp:	26261
Ion	Ratio	Lower	Upper
41	100		
76	33.5	27.5	41.3
39	146.5	83.0	124.6#



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: 0.44 ppbv

RT: 5.76 min Scan# 438

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

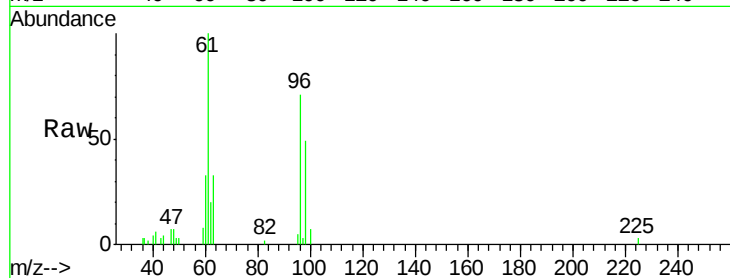
Tot Ion: 96 Resp: 23833

Ion Ratio Lower Upper

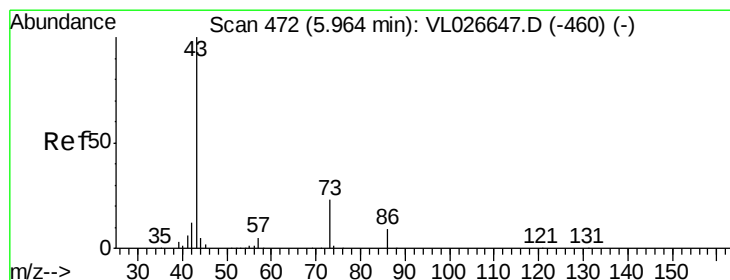
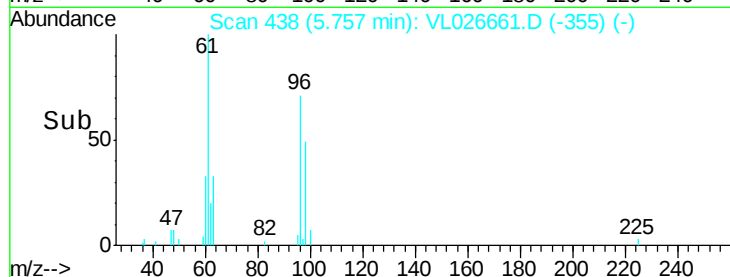
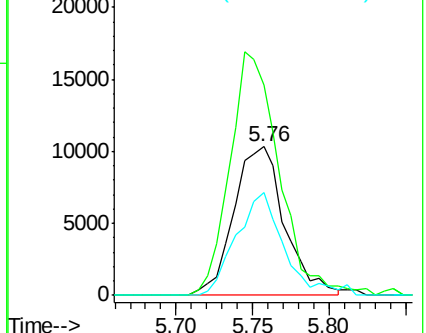
96 100

61 141.6 131.0 196.6

98 68.9 48.1 72.1



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: 0.35 ppbv

RT: 5.98 min Scan# 474

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion: 43 Resp: 59798

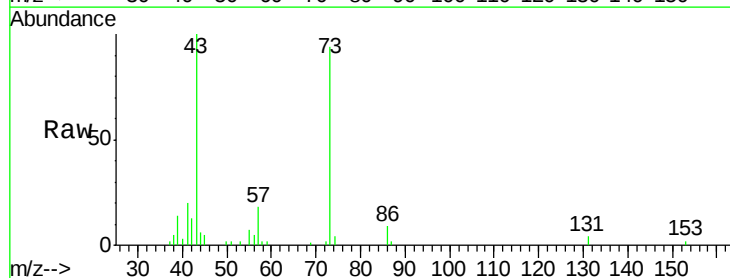
Ion Ratio Lower Upper

43 100

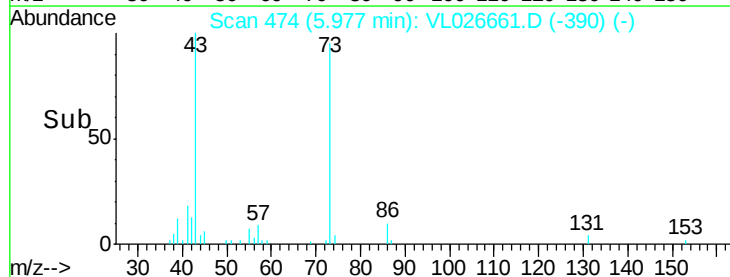
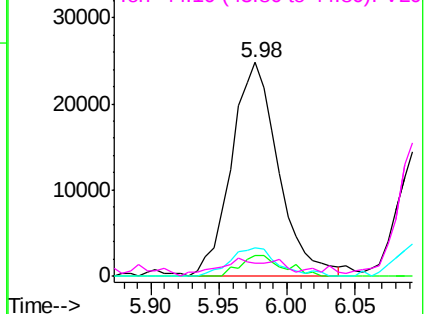
86 9.5 7.4 11.0

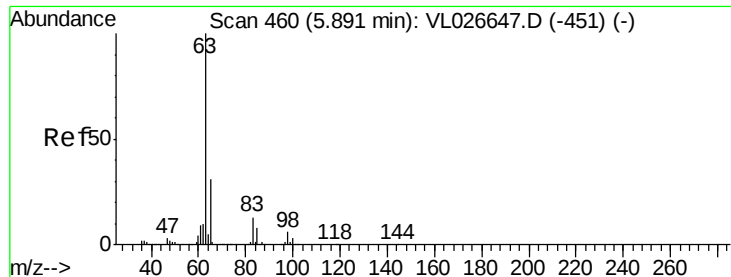
42 13.2 9.2 13.8

44 4.5 3.8 5.8



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





#24

1,1-Dichloroethane

Concen: 0.42 ppbv

RT: 5.90 min Scan# 461

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

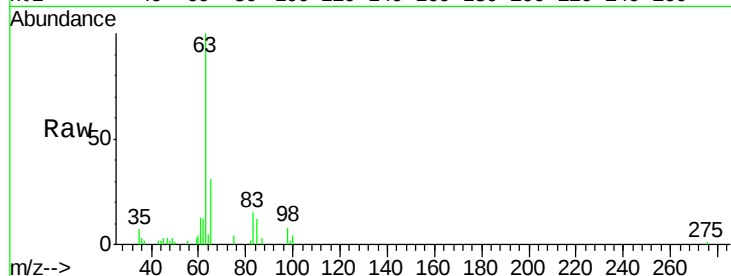
Tot Ion: 63 Resp: 51650

Ion Ratio Lower Upper

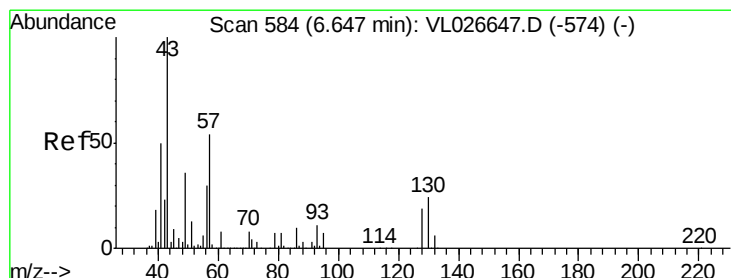
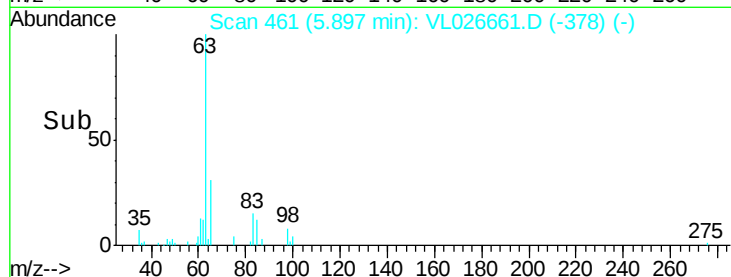
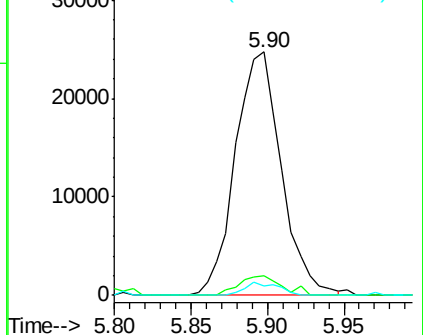
63 100

98 8.2 2.9 8.7

100 3.7 1.6 4.8



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.37 ppbv

RT: 6.68 min Scan# 589

Delta R.T. 0.03 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Tgt Ion: 43 Resp: 63183

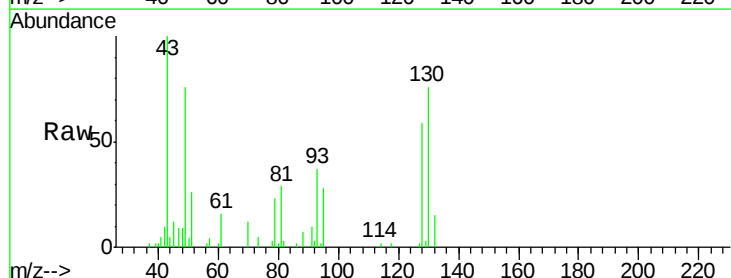
Ion Ratio Lower Upper

43 100

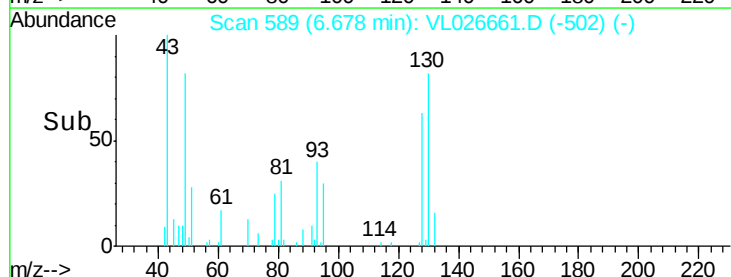
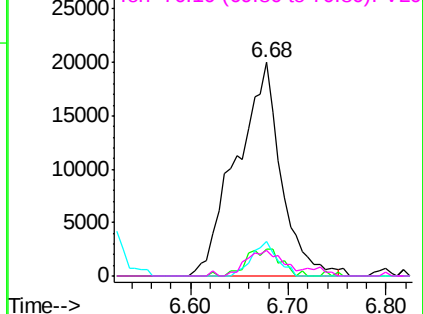
45 10.4 7.5 11.3

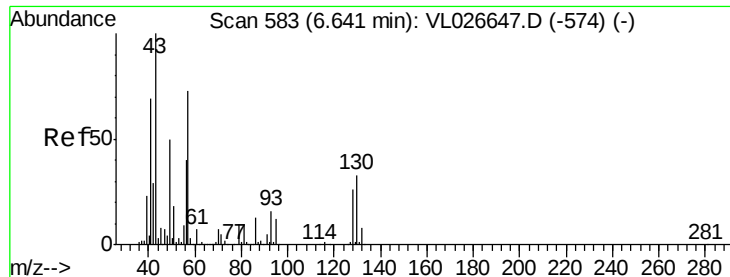
61 9.2 7.3 10.9

70 12.0 7.4 11.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

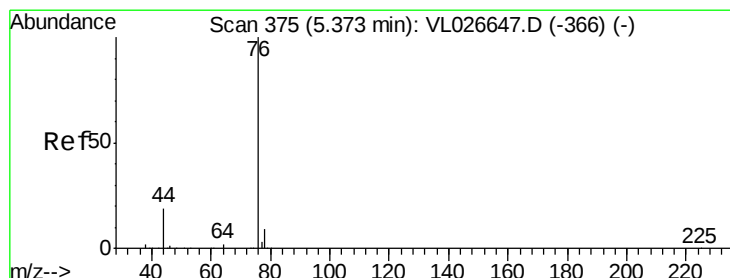
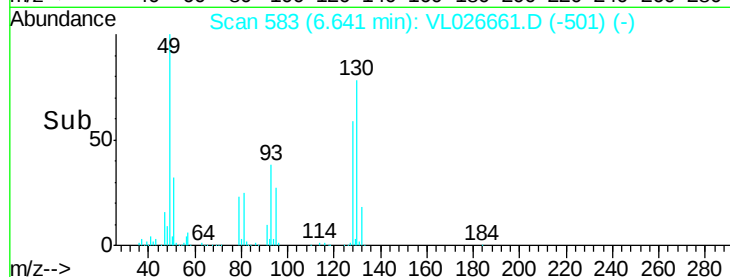
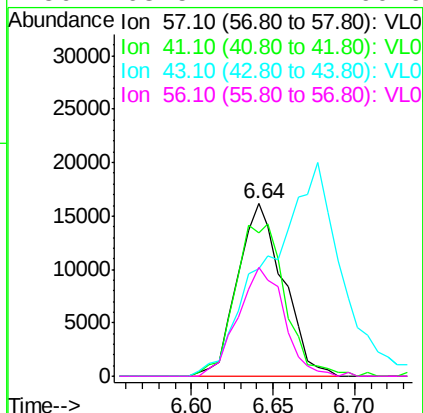
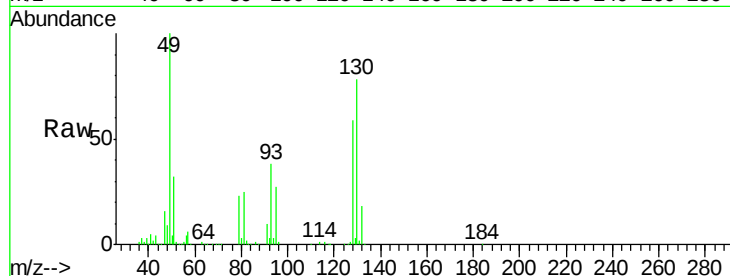




#26
Hexane
Concen: 0.36 ppbv
RT: 6.64 min Scan# 583
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

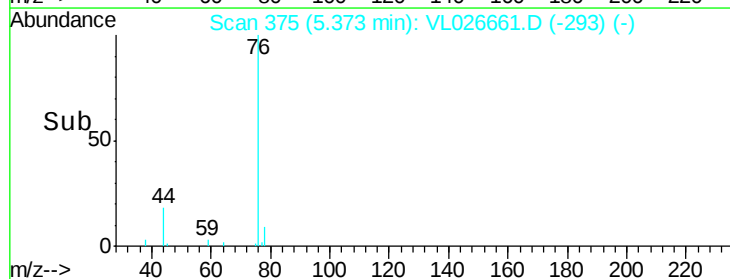
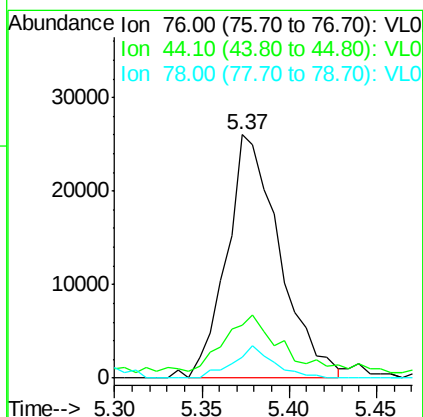
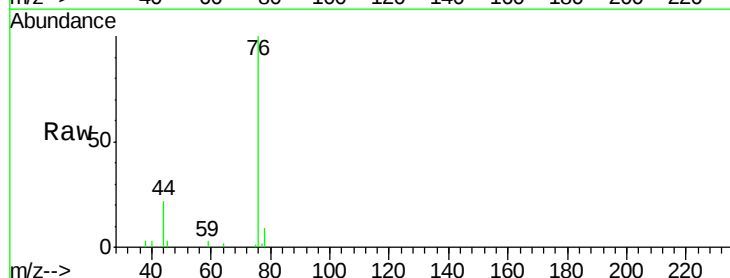
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

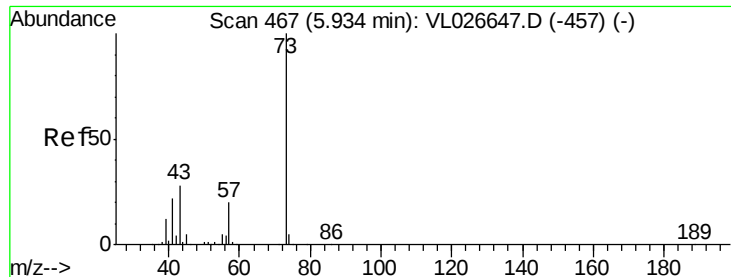
Tot Ion: 57 Resp: 31761
Ion Ratio Lower Upper
57 100
41 96.5 74.8 112.2
43 199.9 161.5 242.3
56 63.5 44.4 66.6



#27
Carbon Disulfide
Concen: 0.42 ppbv
RT: 5.37 min Scan# 375
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion: 76 Resp: 54717
Ion Ratio Lower Upper
76 100
44 29.8 15.9 23.9#
78 10.1 7.6 11.4

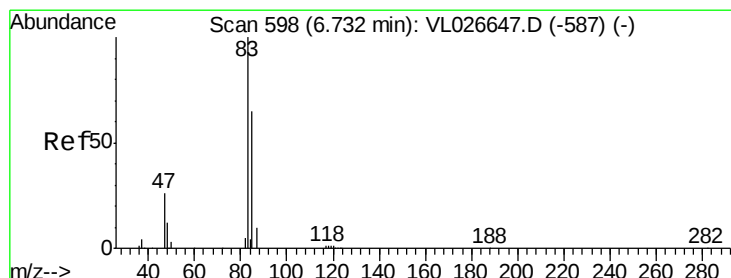
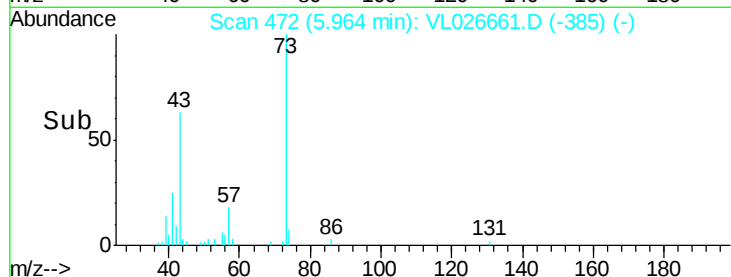
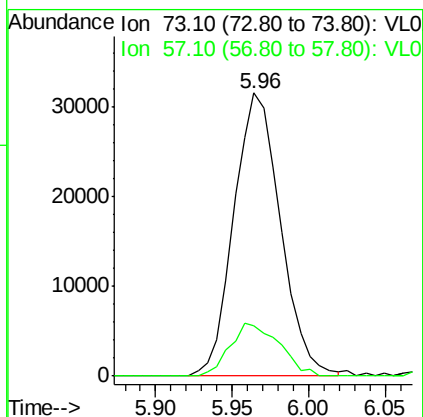
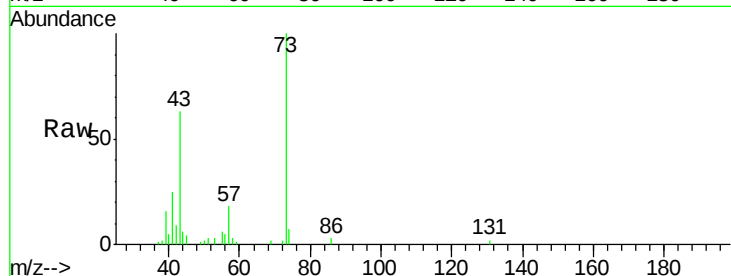




#28
Methvl tert-Butvl Ether
Concen: 0.38 ppbv
RT: 5.96 min Scan# 472
Delta R.T. 0.03 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

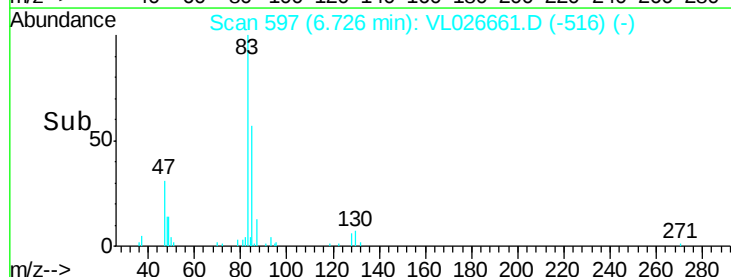
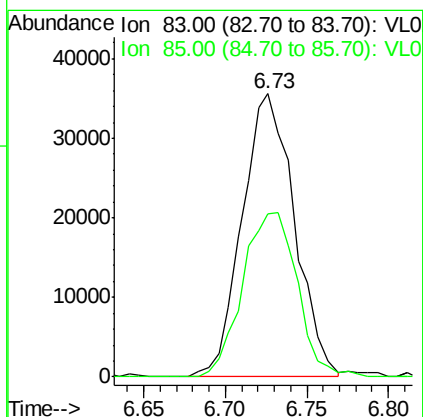
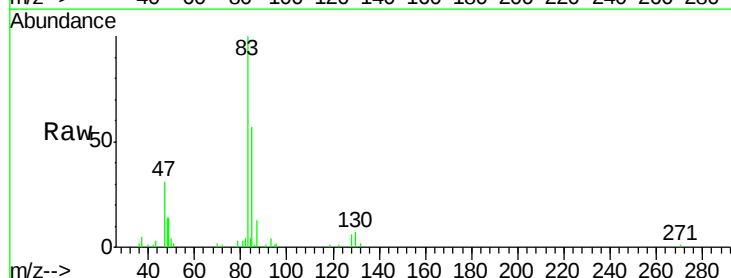
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

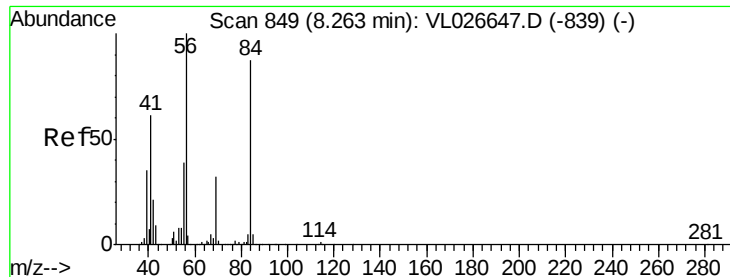
Tot Ion: 73 Resp: 66694
Ion Ratio Lower Upper
73 100
57 19.8 16.2 24.4



#29
Chloroform
Concen: 0.49 ppbv
RT: 6.73 min Scan# 597
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion: 83 Resp: 79489
Ion Ratio Lower Upper
83 100
85 57.5 51.6 77.4

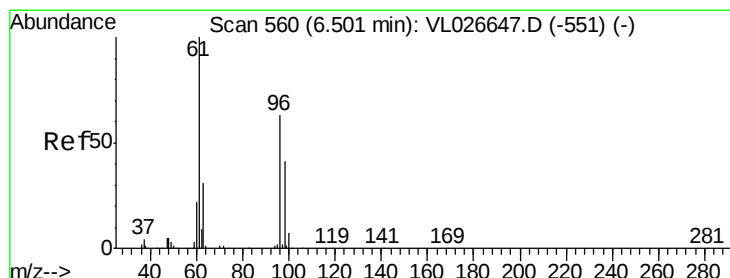
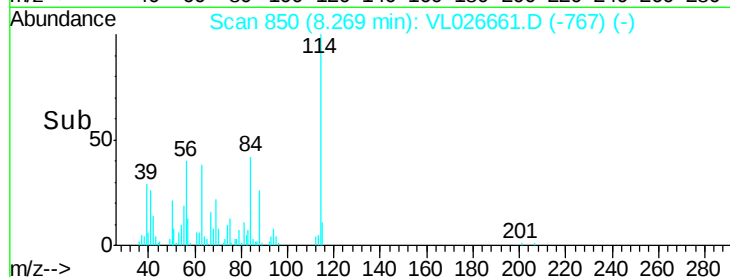
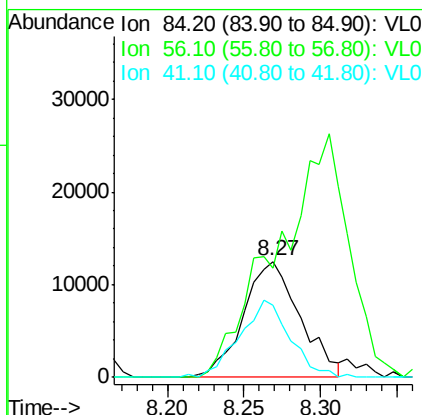
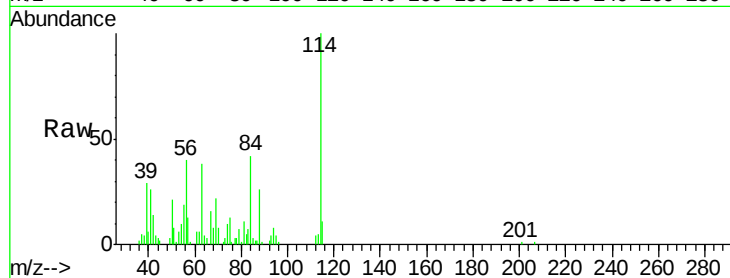




#30
Cvclohexane
Concen: 0.37 ppbv
RT: 8.27 min Scan# 850
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

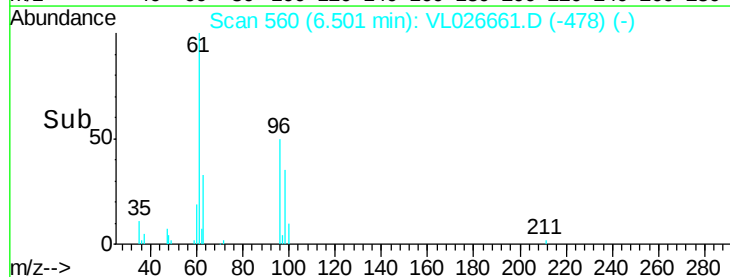
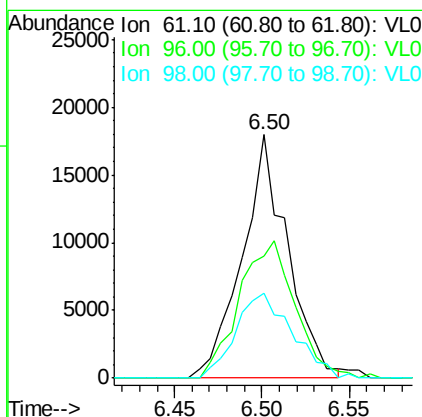
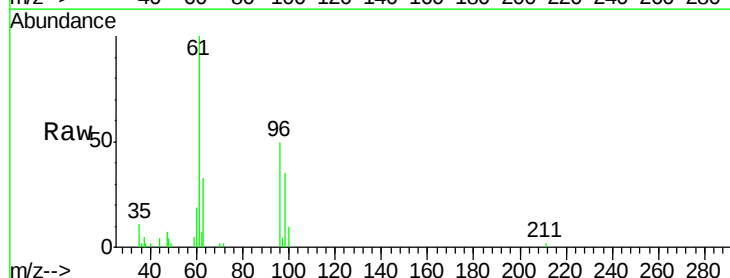
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

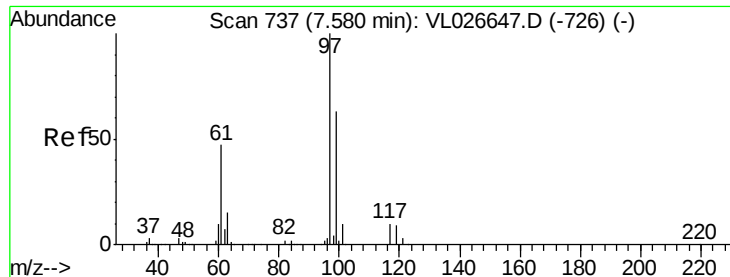
Tot Ion: 84 Resp: 32218
Ion Ratio Lower Upper
84 100
56 0.0 95.9 143.9#
41 59.3 54.8 82.2



#31
cis-1,2-Dichloroethene
Concen: 0.36 ppbv
RT: 6.50 min Scan# 560
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion: 61 Resp: 32514
Ion Ratio Lower Upper
61 100
96 50.4 50.2 75.4
98 35.1 32.4 48.6





#32

1,1,1-Trichloroethane

Concen: 0.43 ppbv

RT: 7.57 min Scan# 736

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

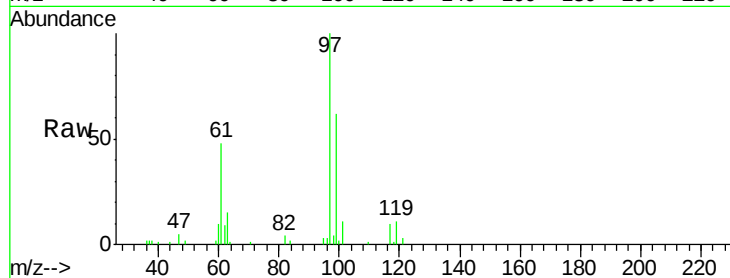
Tot Ion: 97 Resp: 77866

Ion Ratio Lower Upper

97 100

99 62.8 50.8 76.2

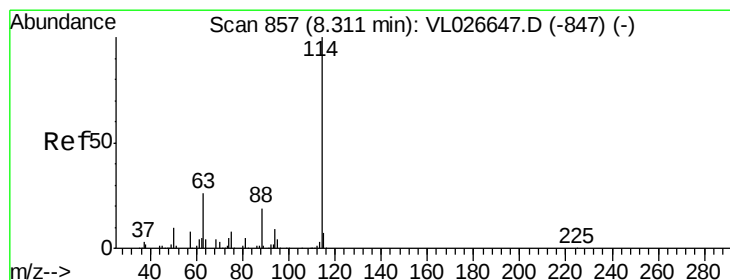
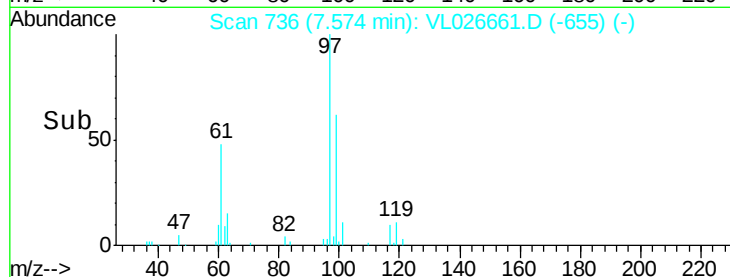
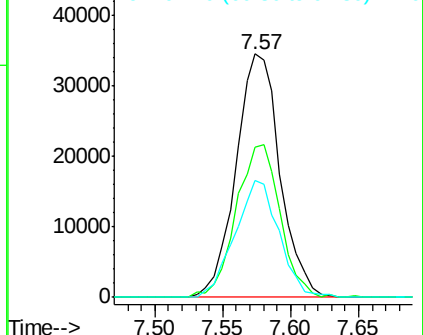
61 47.9 38.9 58.3



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: 8.31 min Scan# 856

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

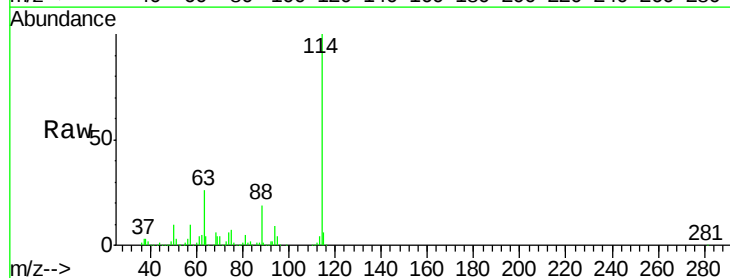
Tgt Ion: 114 Resp: 2139698

Ion Ratio Lower Upper

114 100

63 26.5 21.7 32.5

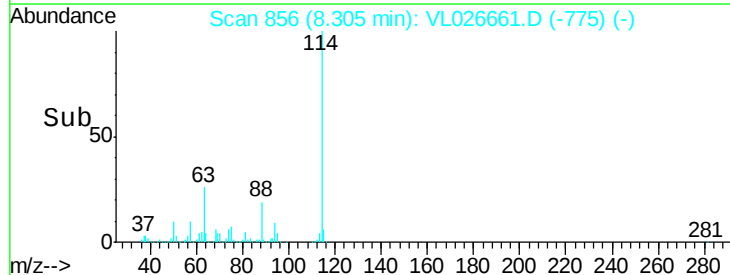
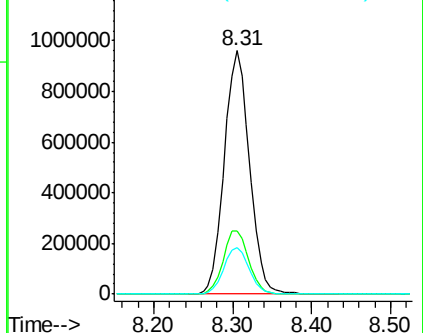
88 19.3 15.2 22.8

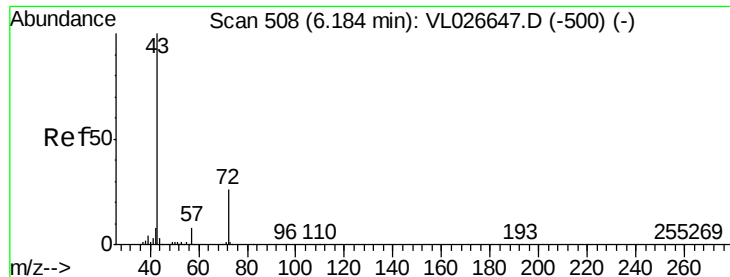


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.36 ppbv

RT: 6.21 min Scan# 513

Delta R.T. 0.03 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

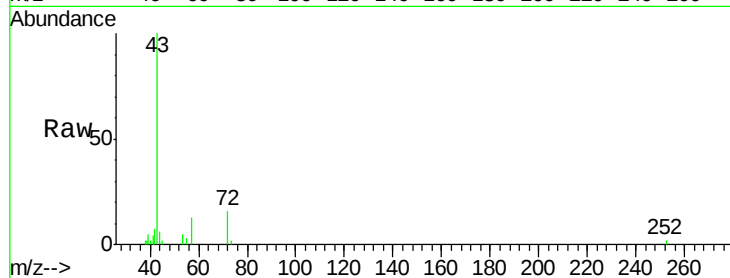
MDL-AIR-3

Tot Ion: 43 Resp: 41192

Ion Ratio Lower Upper

43 100

72 27.3 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

6.21

20000

15000

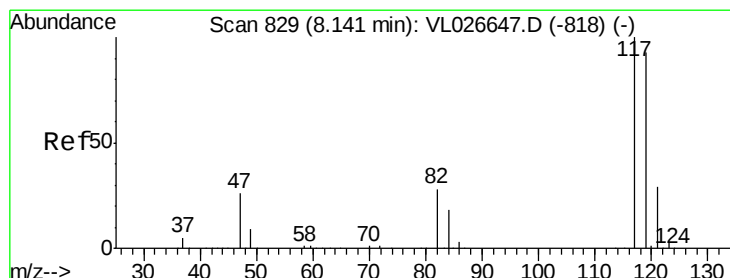
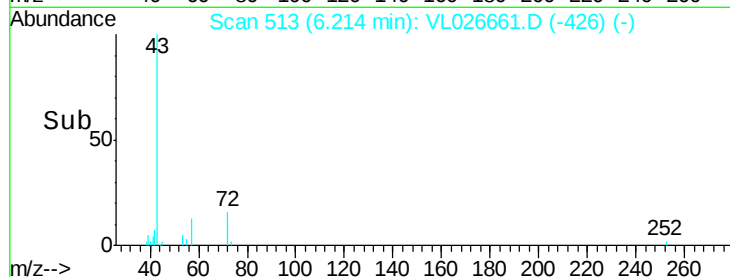
10000

5000

0

6.15 6.20 6.25 6.30

Time-->



#35

Carbon Tetrachloride

Concen: 0.41 ppbv

RT: 8.13 min Scan# 828

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

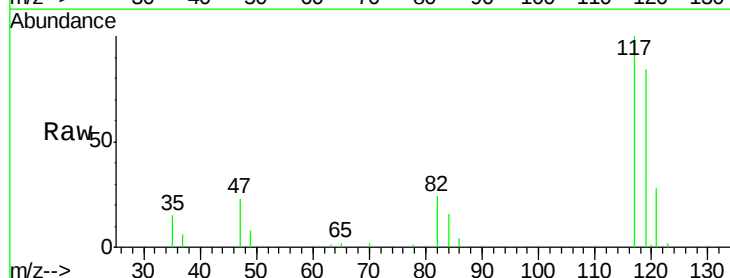
Tgt Ion: 117 Resp: 78105

Ion Ratio Lower Upper

117 100

119 83.6 74.7 112.1

121 27.7 23.1 34.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

8.13

40000

30000

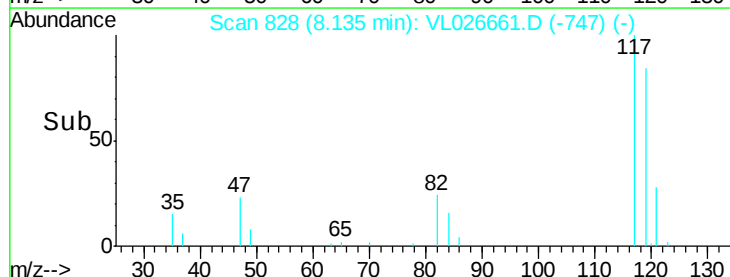
20000

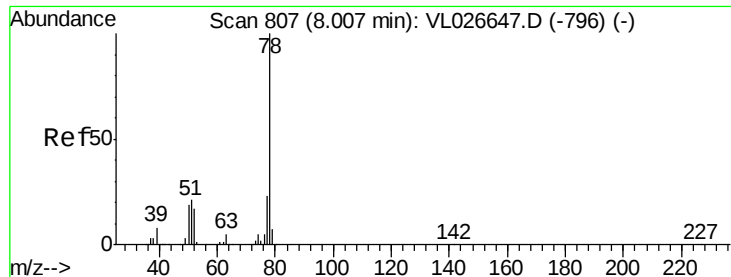
10000

0

8.05 8.10 8.15 8.20

Time-->





#36

Benzene

Concen: 0.34 ppbv

RT: 8.01 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

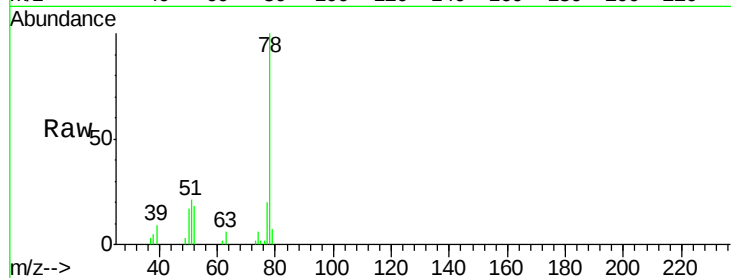
Tot Ion: 78 Resp: 73820

Ion Ratio Lower Upper

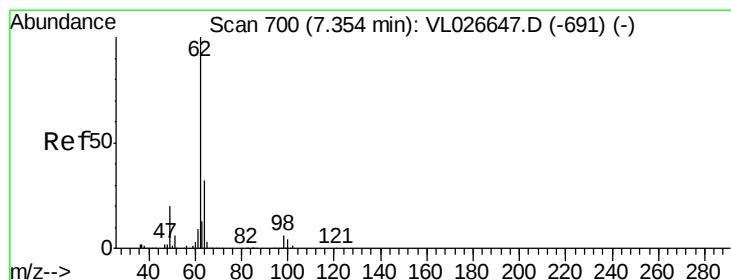
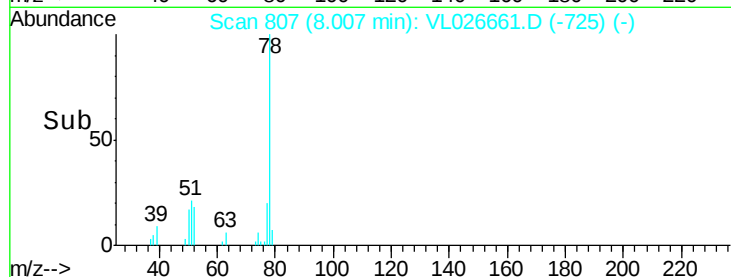
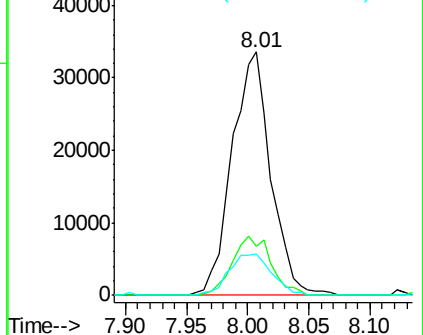
78 100

77 20.4 18.5 27.7

50 17.0 15.4 23.2



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: 0.41 ppbv

RT: 7.35 min Scan# 700

Delta R.T. 0.00 min

Lab File: VL026661.D

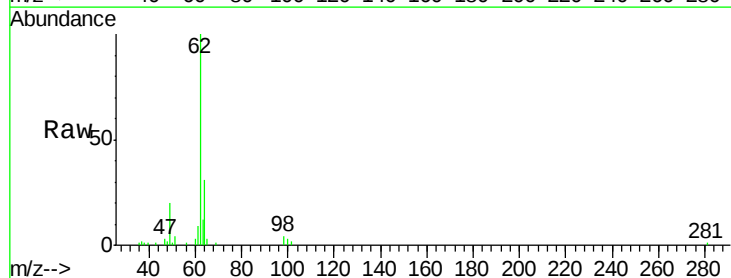
Acq: 9 Jan 2016 5:09

Tgt Ion: 62 Resp: 61762

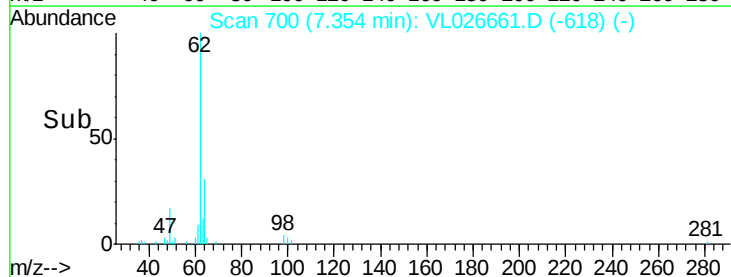
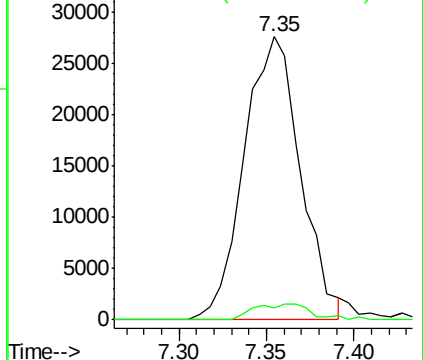
Ion Ratio Lower Upper

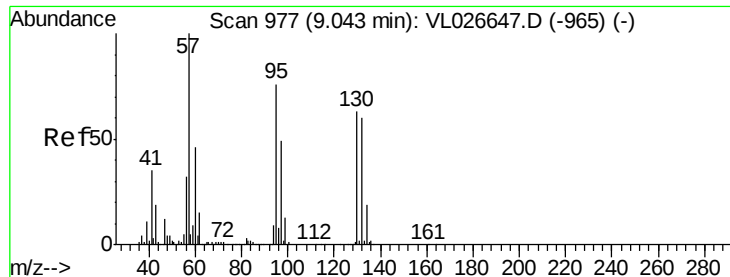
62 100

98 6.0 4.8 7.2



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.38 ppbv

RT: 9.05 min Scan# 978

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion:130 Resp: 36972

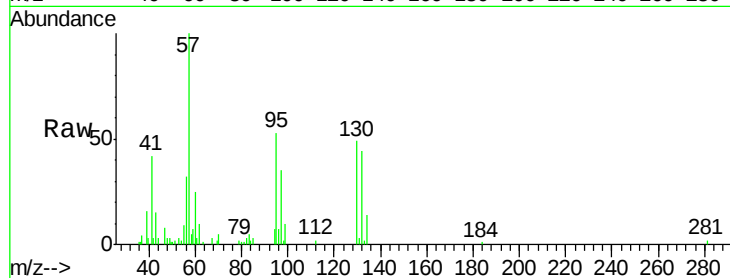
Ion Ratio Lower Upper

130 100

95 108.2 96.6 145.0

132 88.9 76.2 114.4

97 71.5 62.3 93.5

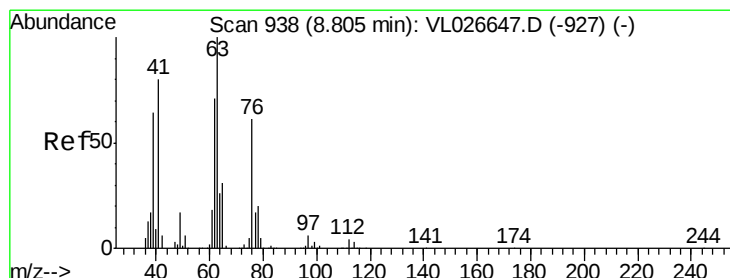
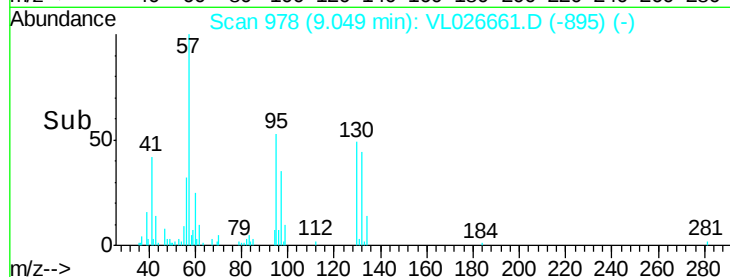
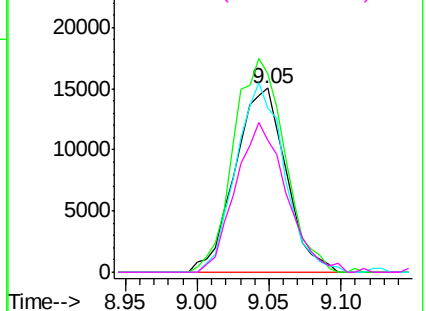


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.39 ppbv

RT: 8.80 min Scan# 937

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

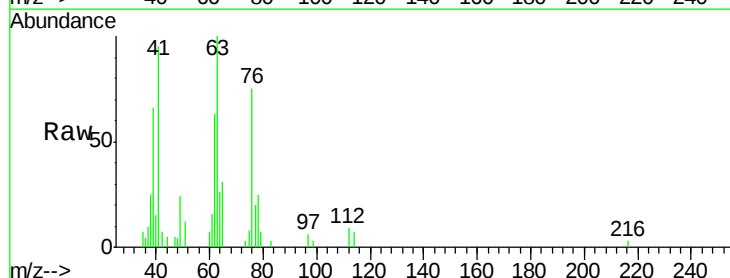
Tgt Ion: 63 Resp: 30057

Ion Ratio Lower Upper

63 100

41 92.1 64.1 96.1

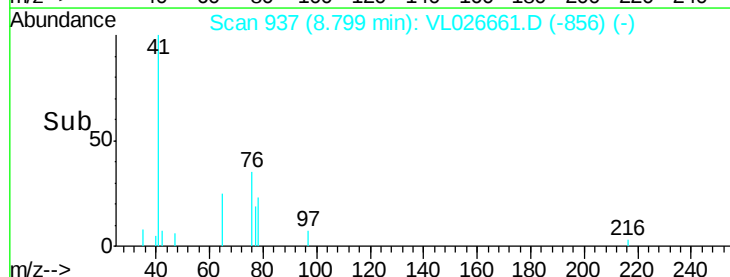
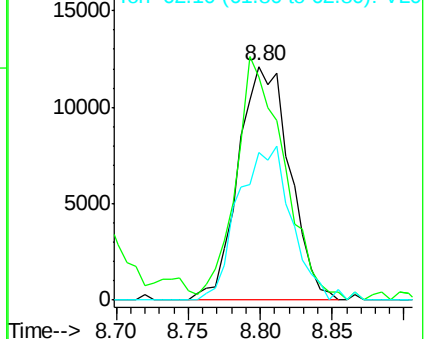
62 63.1 56.6 84.8

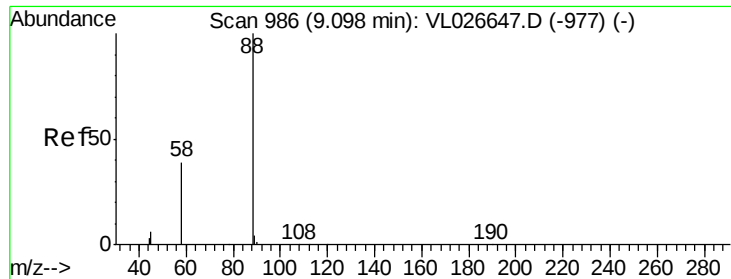


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#40

1,4-Dioxane

Concen: 0.25 ppbv

RT: 9.18 min Scan# 999

Delta R.T. 0.08 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion: 88 Resp: 4290

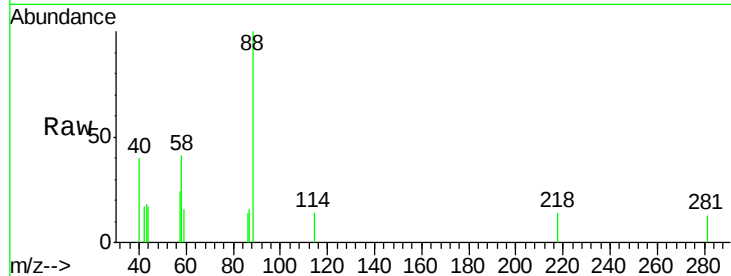
Ion Ratio Lower Upper

88 100

58 150.2 109.4 164.2

43 73.1 238.2 357.2#

57 0.0 1148.3 1722.5#

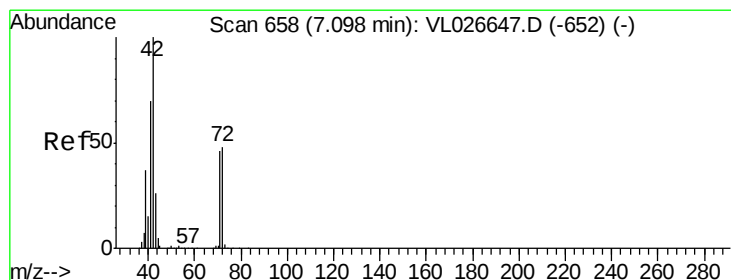
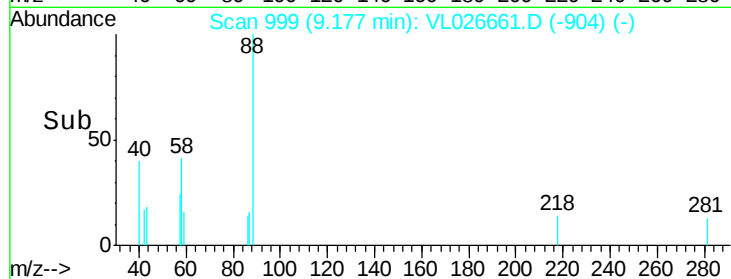
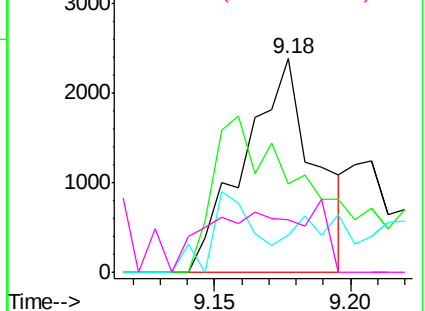


Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#41

Tetrahydrofuran

Concen: 0.12 ppbv

RT: 7.14 min Scan# 665

Delta R.T. 0.04 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

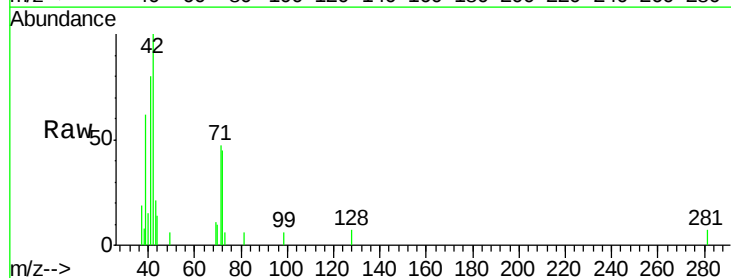
Tgt Ion: 42 Resp: 6828

Ion Ratio Lower Upper

42 100

72 0.0 40.6 60.8#

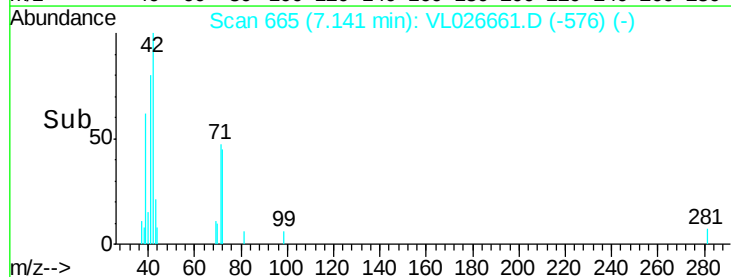
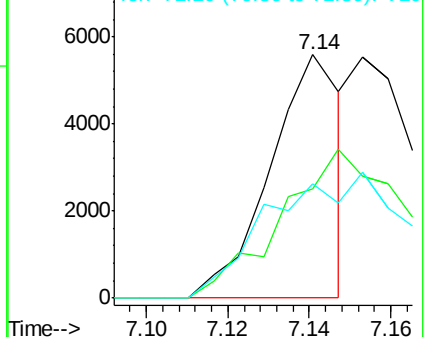
71 0.0 38.4 57.6#

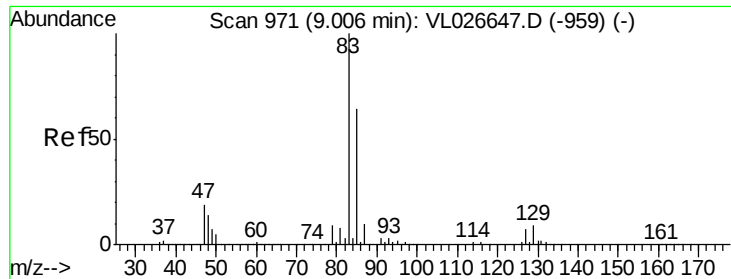


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.41 ppbv

RT: 9.00 min Scan# 970

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

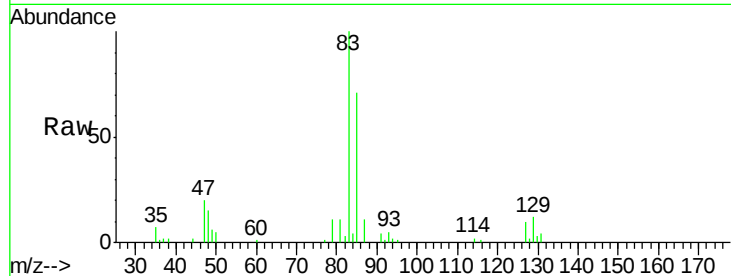
Tot Ion: 83 Resp: 79769

Ion Ratio Lower Upper

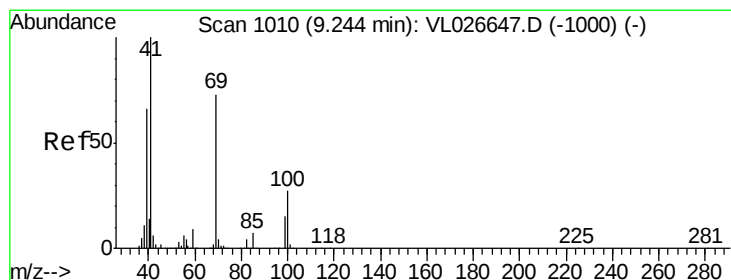
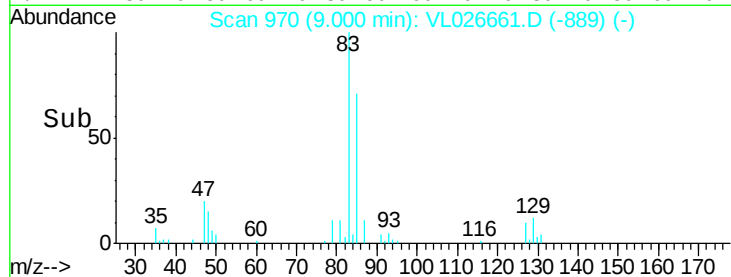
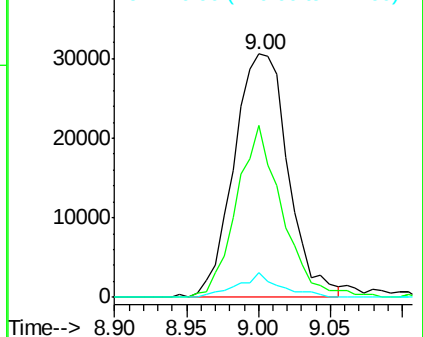
83 100

85 70.7 50.9 76.3

127 10.3 5.5 8.3#



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



#43

Methyl Methacrylate

Concen: 0.28 ppbv

RT: 9.26 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

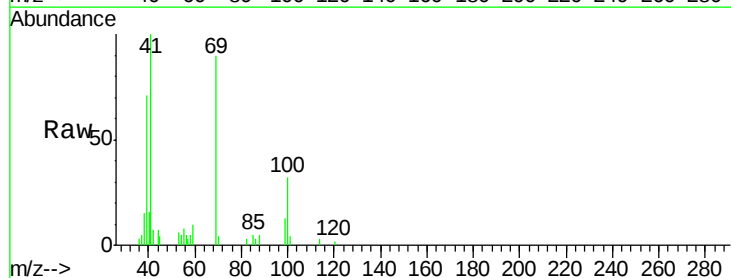
Tgt Ion: 69 Resp: 22912

Ion Ratio Lower Upper

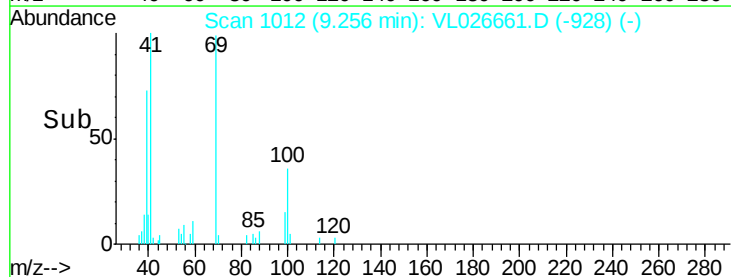
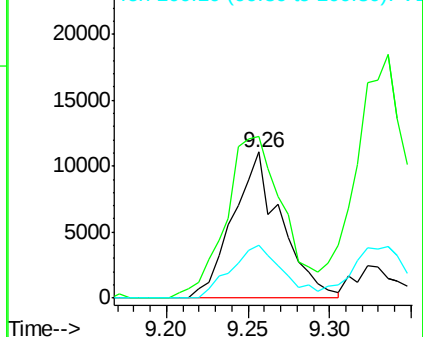
69 100

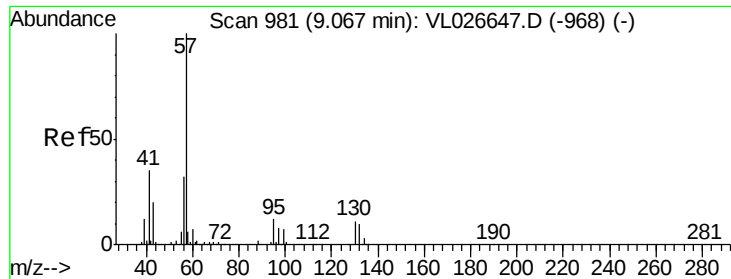
41 128.7 106.1 159.1

100 41.8 29.0 43.4



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.34 ppbv

RT: 9.06 min Scan# 980

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

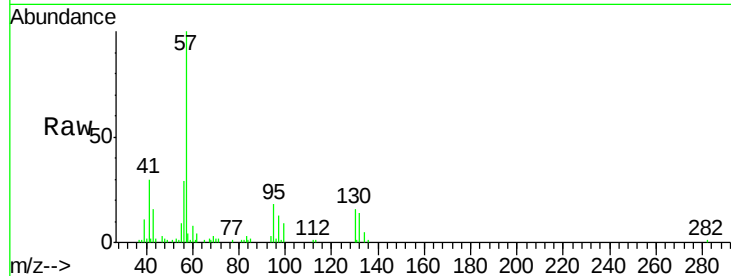
Tot Ion: 57 Resp: 121720

Ion Ratio Lower Upper

57 100

41 35.6 26.9 40.3

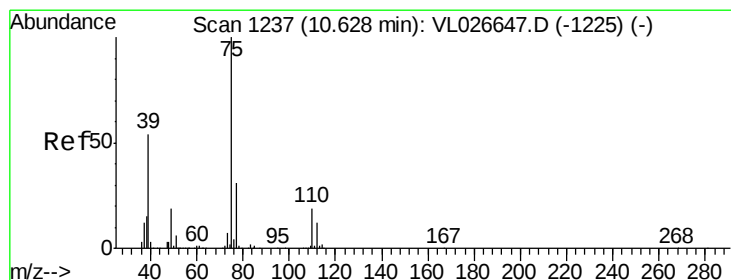
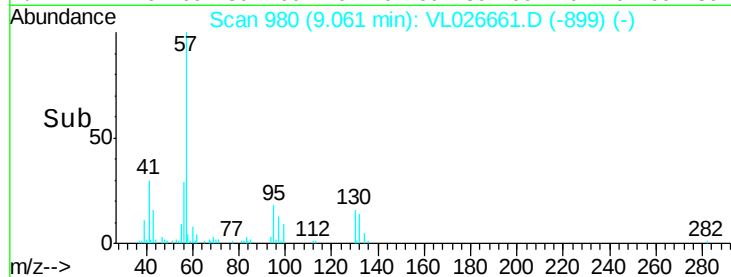
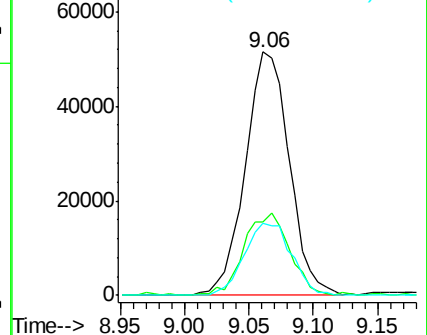
56 31.7 25.4 38.0



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#45

t-1,3-Dichloropropene

Concen: 0.27 ppbv

RT: 10.63 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VL026661.D

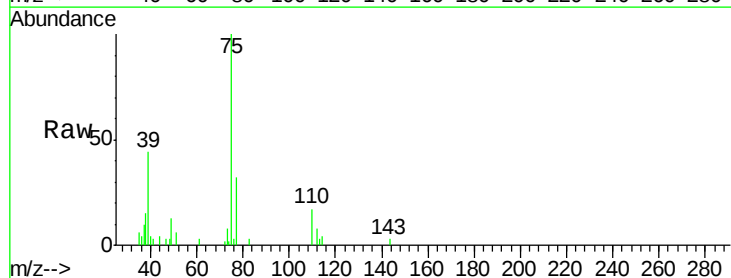
Acq: 9 Jan 2016 5:09

Tgt Ion: 75 Resp: 35665

Ion Ratio Lower Upper

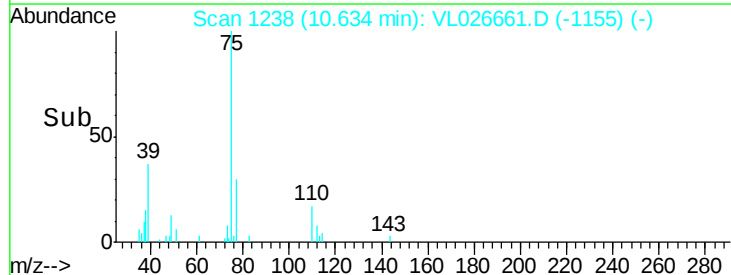
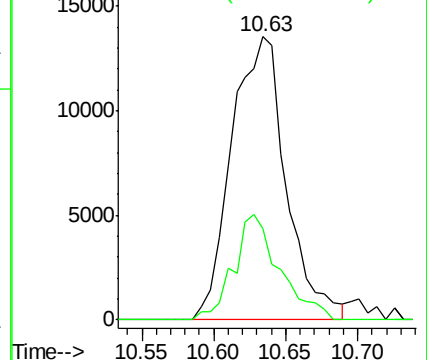
75 100

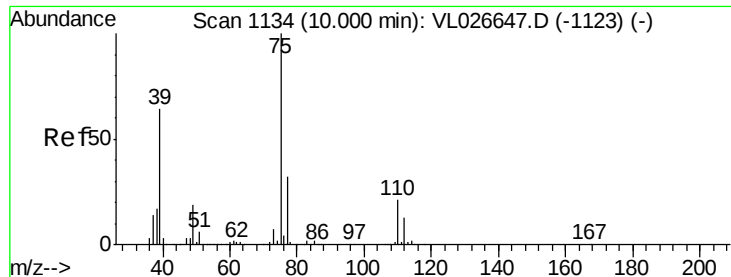
77 32.3 24.6 37.0



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

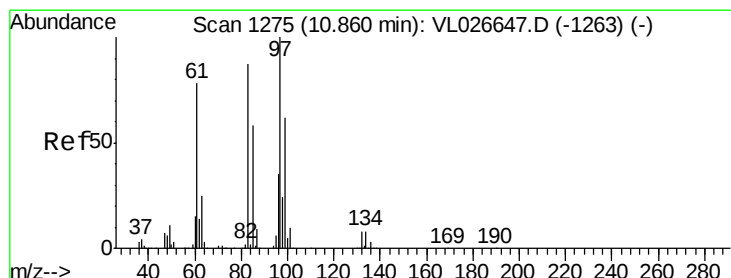
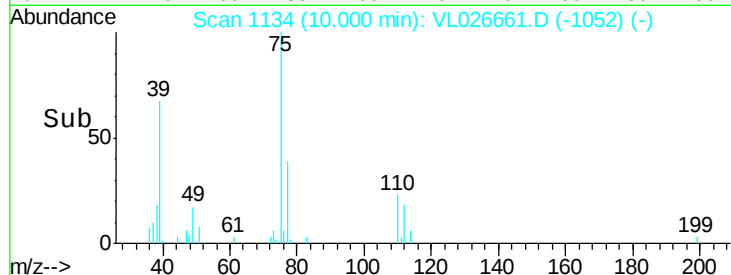
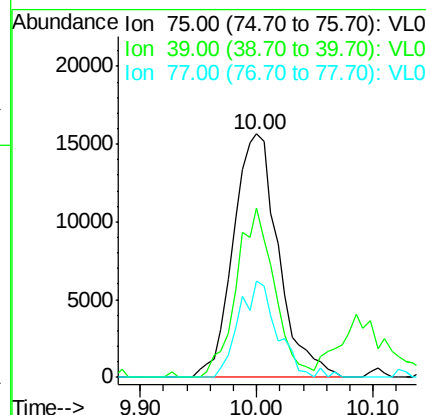
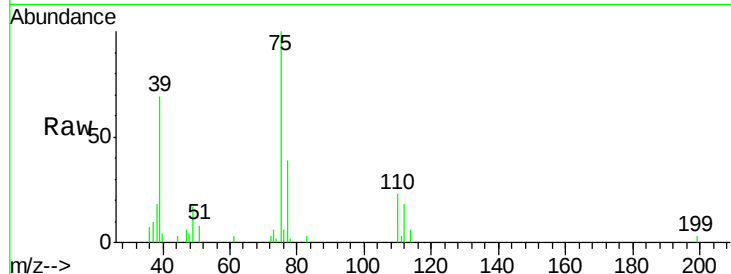




#46
 cis-1,3-Dichloropropene
 Concen: 0.28 ppbv
 RT: 10.00 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

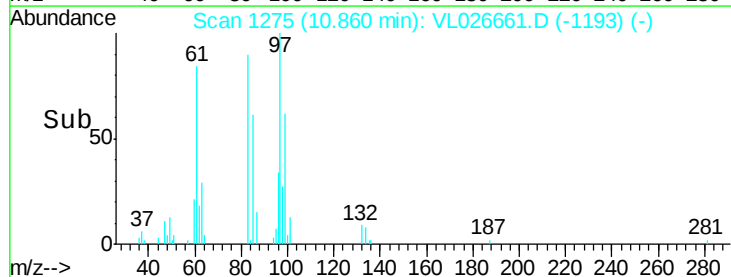
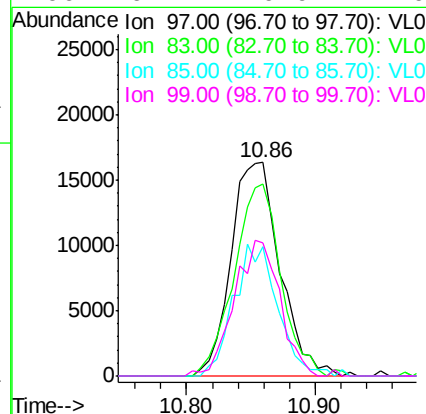
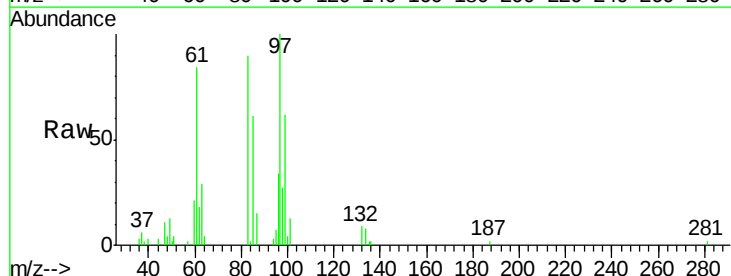
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

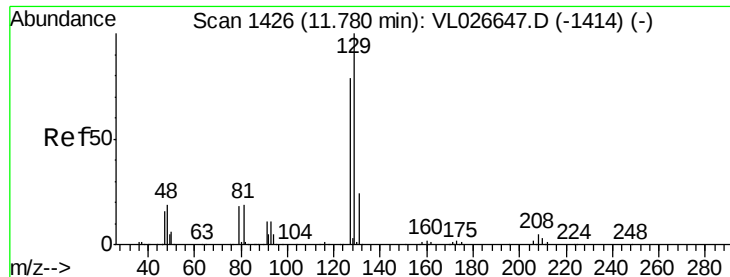
Tot Ion: 75 Resp: 42195
 Ion Ratio Lower Upper
 75 100
 39 69.4 51.2 76.8
 77 39.5 25.9 38.9#



#47
 1,1,2-Trichloroethane
 Concen: 0.40 ppbv
 RT: 10.86 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion: 97 Resp: 43215
 Ion Ratio Lower Upper
 97 100
 83 89.8 69.5 104.3
 85 60.5 46.4 69.6
 99 62.2 49.9 74.9

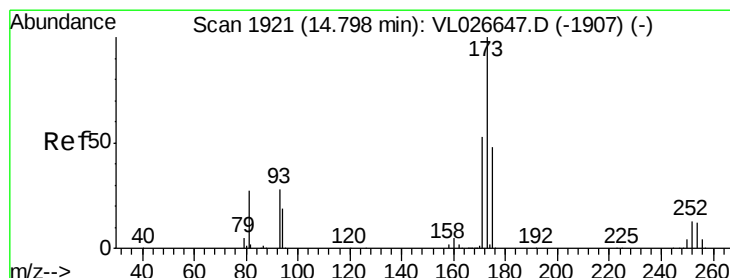
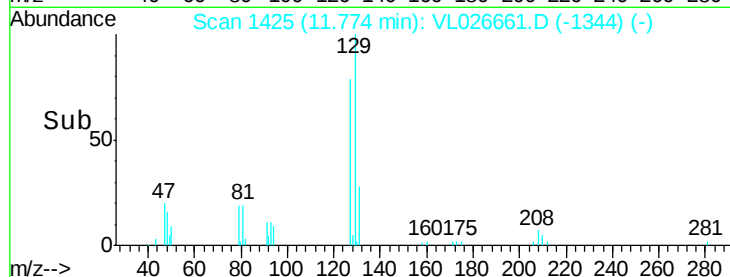
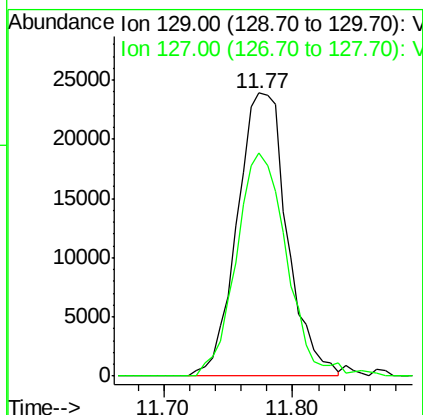
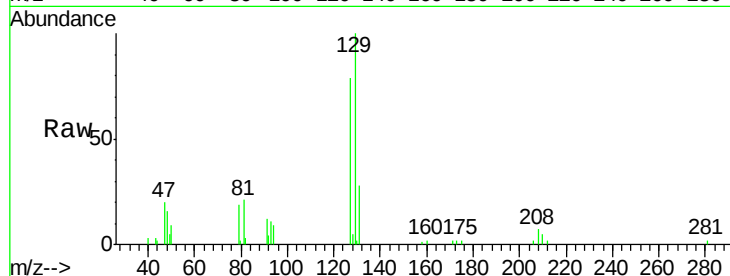




#48
Dibromochloromethane
Concen: 0.39 ppbv
RT: 11.77 min Scan# 1425
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

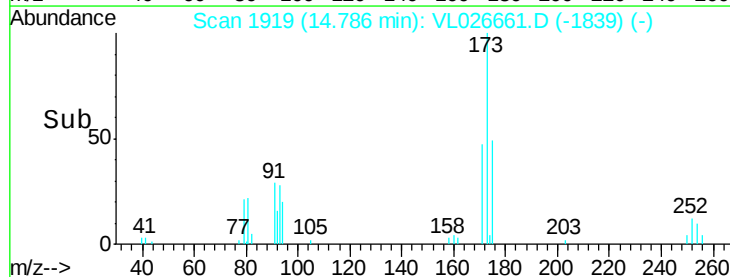
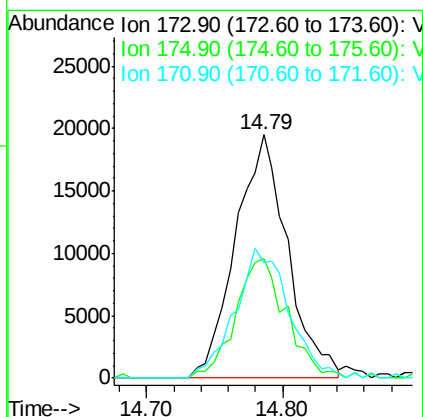
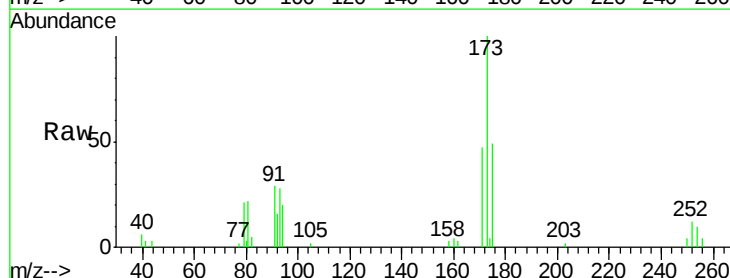
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

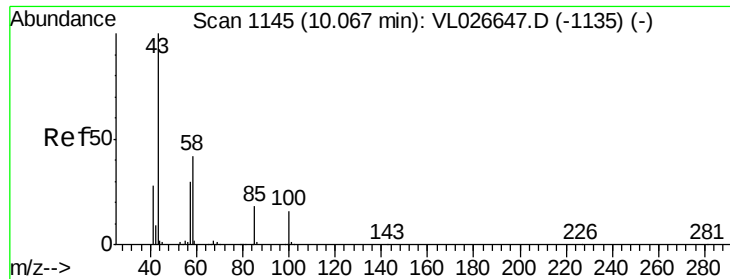
Tot Ion:129 Resp: 64149
Ion Ratio Lower Upper
129 100
127 80.2 39.5 118.5



#49
Bromoform
Concen: 0.39 ppbv
RT: 14.79 min Scan# 1919
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion:173 Resp: 52066
Ion Ratio Lower Upper
173 100
175 48.3 38.6 58.0
171 55.7 41.5 62.3

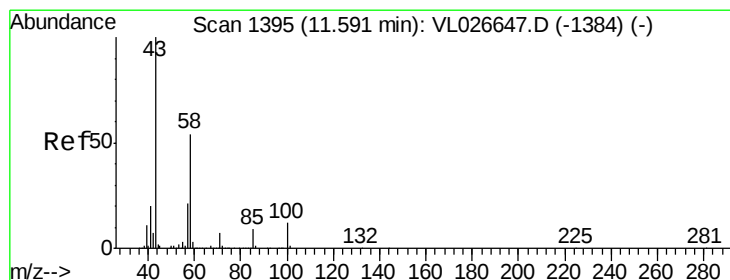
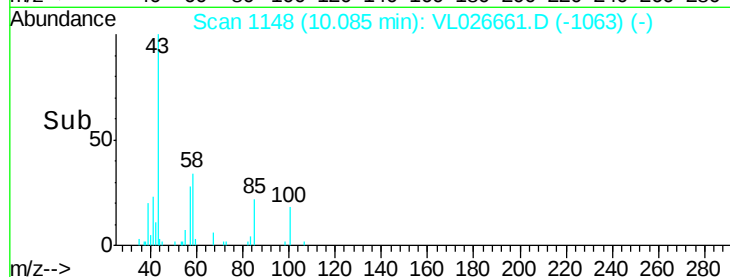
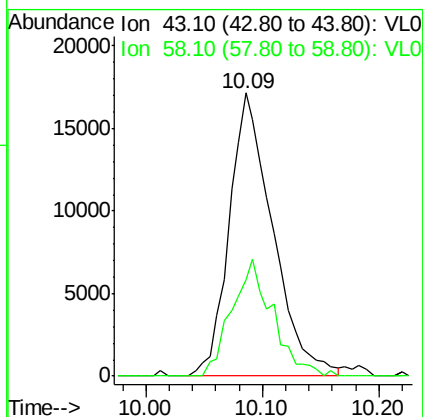
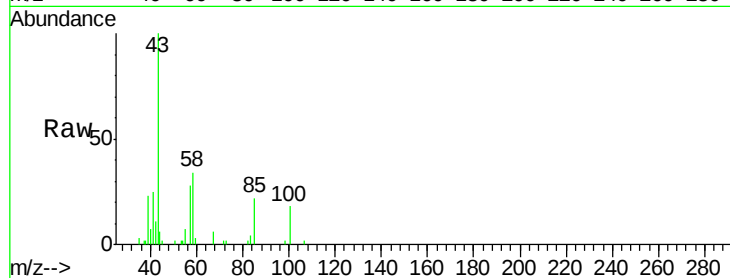




#50
 4-Methyl-2-Pentanone
 Concen: 0.28 ppbv
 RT: 10.09 min Scan# 1148
 Delta R.T. 0.02 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

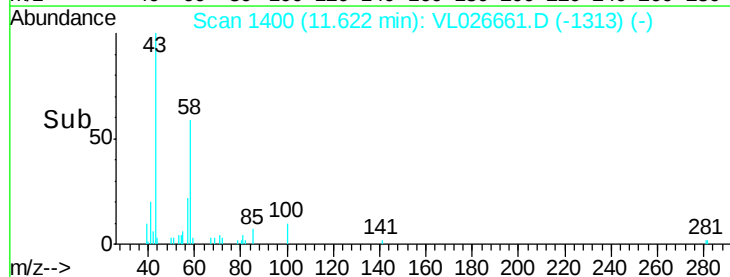
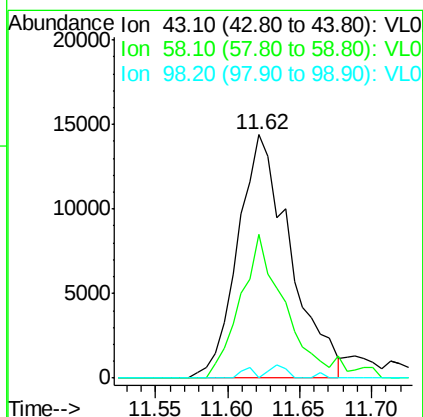
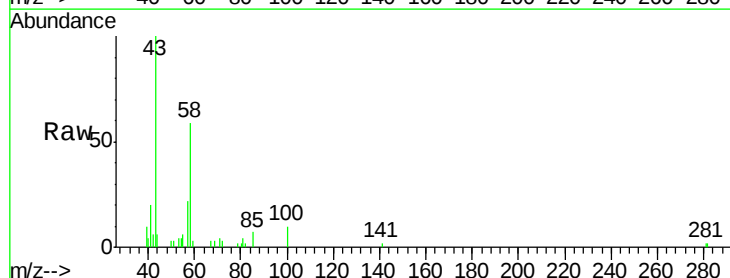
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

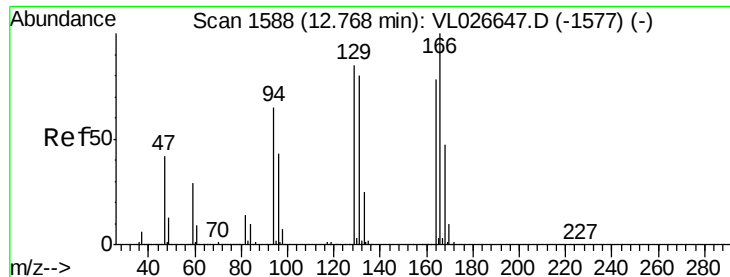
Tot Ion: 43 Resp: 44410
 Ion Ratio Lower Upper
 43 100
 58 38.8 32.4 48.6



#51
 2-Hexanone
 Concen: 0.25 ppbv
 RT: 11.62 min Scan# 1400
 Delta R.T. 0.03 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion: 43 Resp: 36523
 Ion Ratio Lower Upper
 43 100
 58 52.3 44.9 67.3
 98 3.1 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.39 ppbv

RT: 12.77 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion:164 Resp: 42893

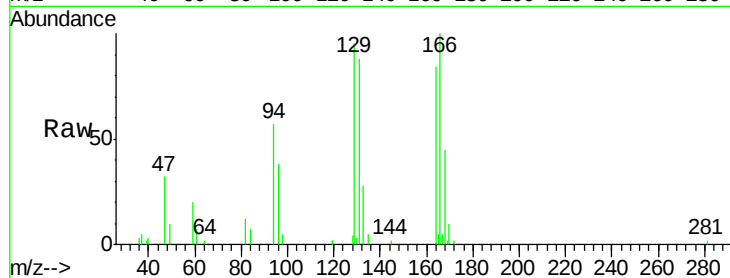
Ion Ratio Lower Upper

164 100

166 119.3 102.5 153.7

129 113.6 87.0 130.6

131 104.6 82.5 123.7

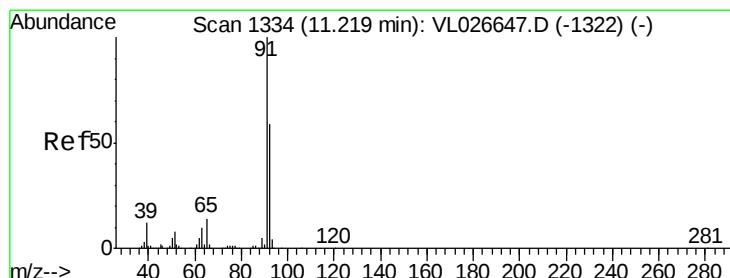
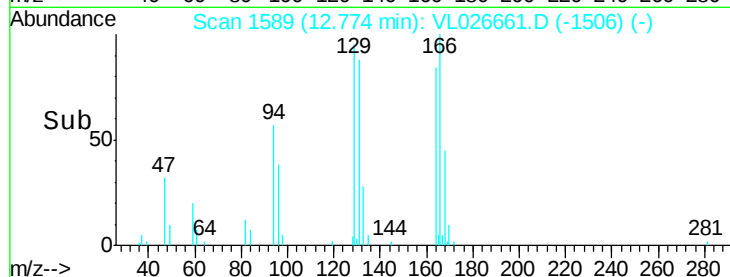
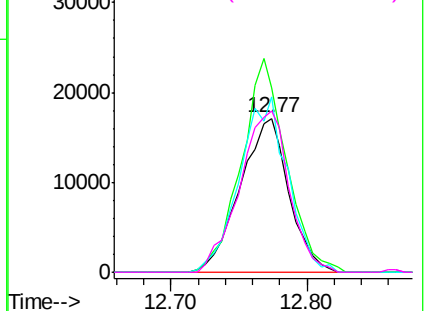


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.32 ppbv

RT: 11.21 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL026661.D

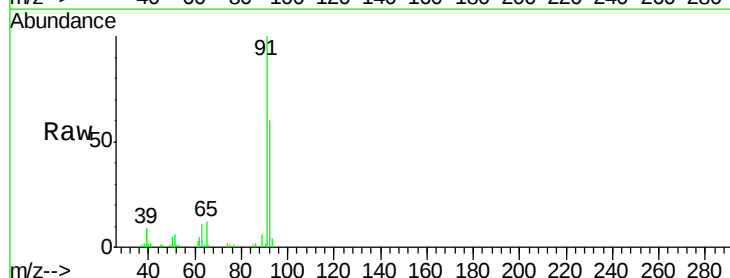
Acq: 9 Jan 2016 5:09

Tgt Ion: 91 Resp: 100491

Ion Ratio Lower Upper

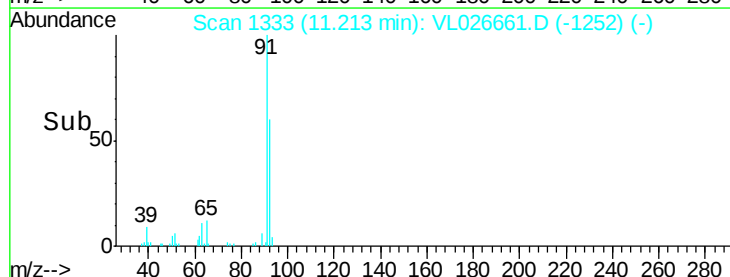
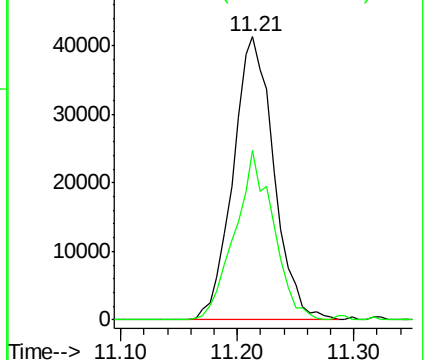
91 100

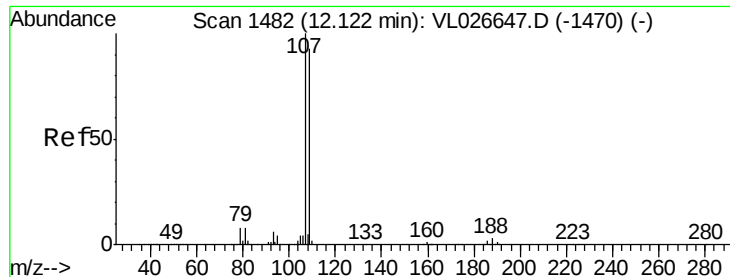
92 56.8 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.41 ppbv

RT: 12.12 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

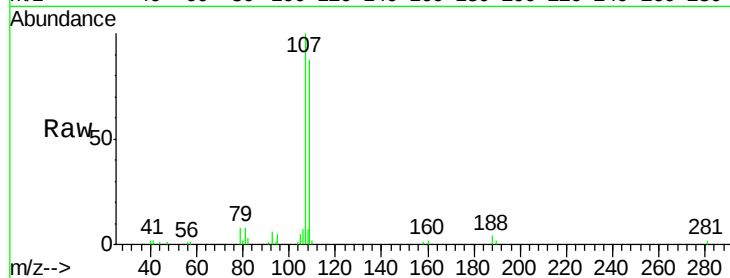
MDL-AIR-3

Tot Ion:107 Resp: 69819

Ion Ratio Lower Upper

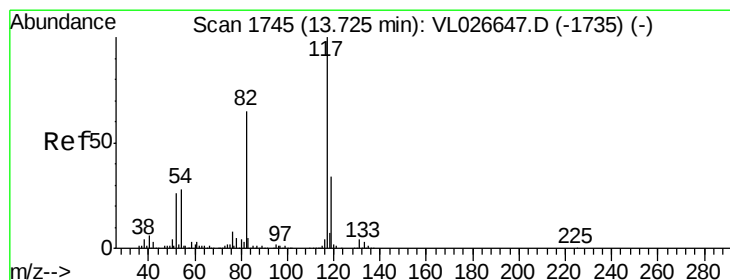
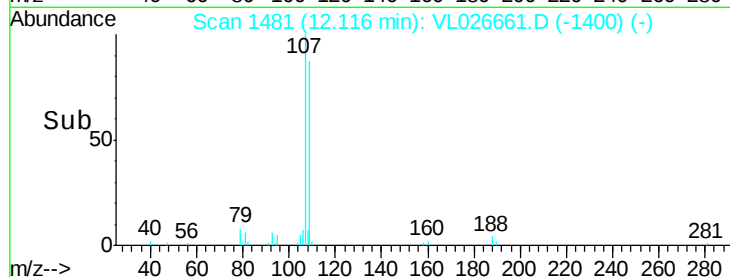
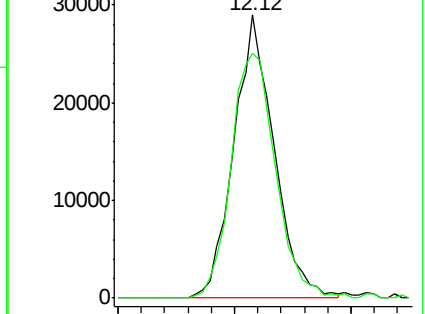
107 100

109 86.7 74.1 111.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.72 min Scan# 1744

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

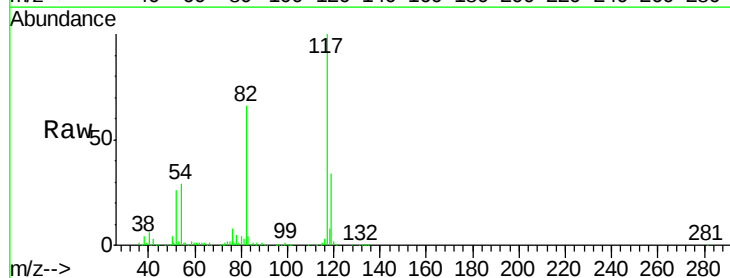
Tgt Ion:117 Resp: 2885040

Ion Ratio Lower Upper

117 100

82 65.0 49.7 74.5

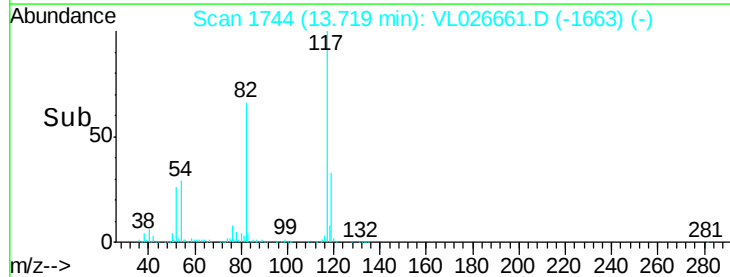
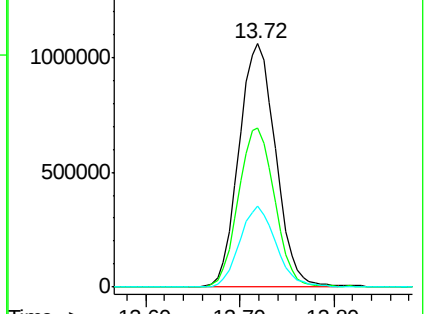
119 33.2 43.8 65.8#

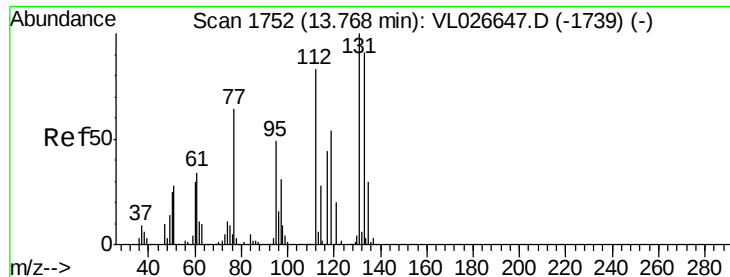


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#56

1,1,1,2-Tetrachloroethane

Concen: 0.43 ppbv

RT: 13.76 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

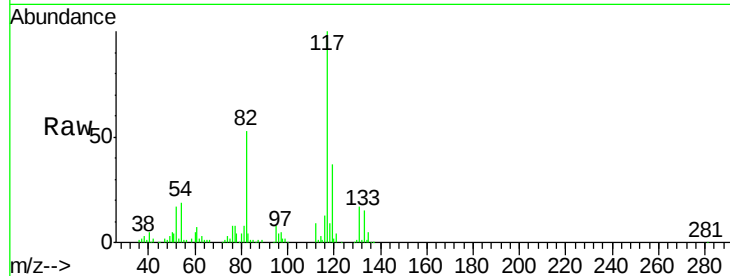
Tot Ion:131 Resp: 56643

Ion Ratio Lower Upper

131 100

133 98.9 76.2 114.4

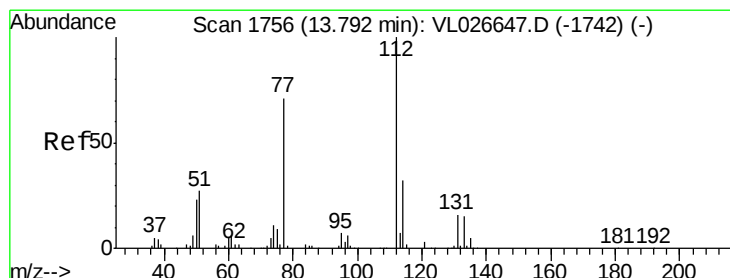
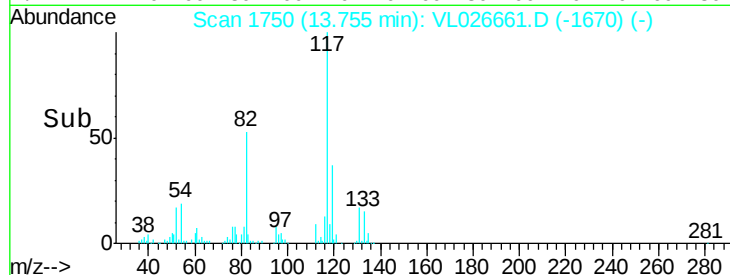
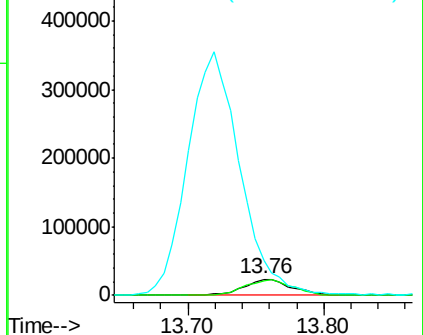
119 1691.0 104.3 156.5#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.48 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

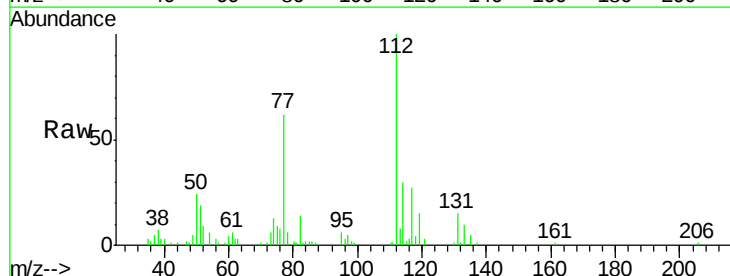
Tgt Ion:112 Resp: 142496

Ion Ratio Lower Upper

112 100

77 61.7 56.9 85.3

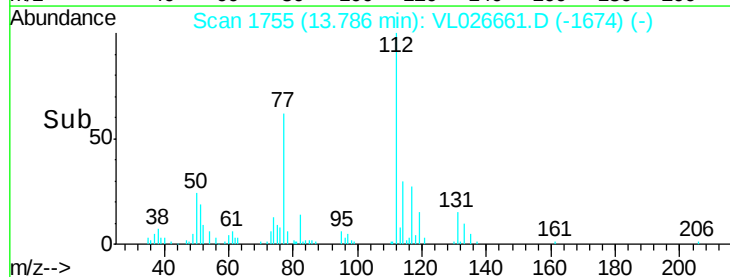
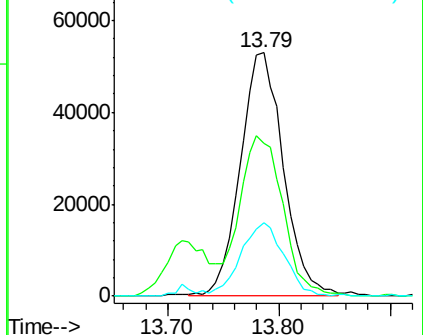
114 29.6 28.8 35.2

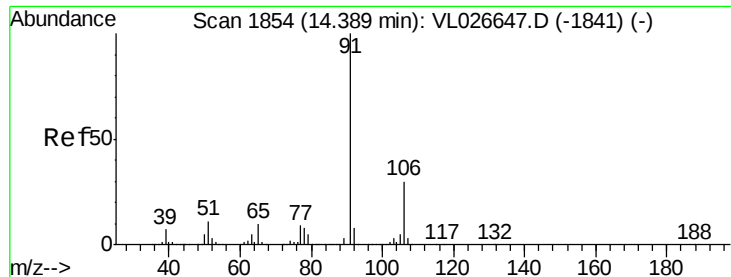


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.32 ppbv

RT: 14.39 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

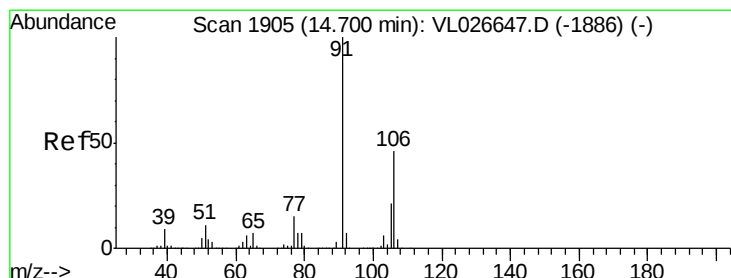
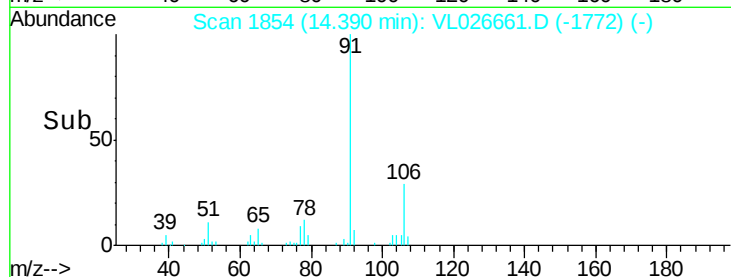
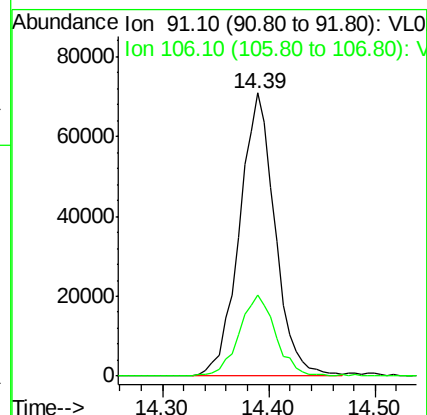
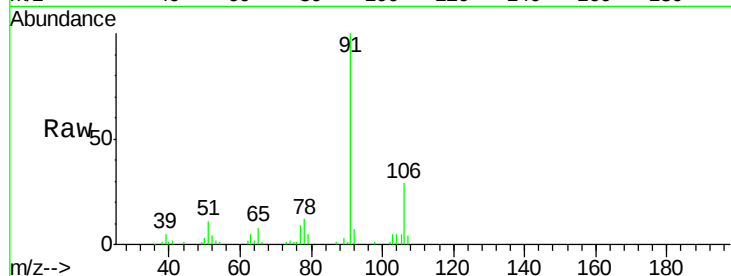
MDL-AIR-3

Tot Ion: 91 Resp: 166396

Ion Ratio Lower Upper

91 100

106 28.7 23.8 35.6



#59

m/p-Xylene

Concen: 0.77 ppbv

RT: 14.69 min Scan# 1903

Delta R.T. -0.01 min

Lab File: VL026661.D

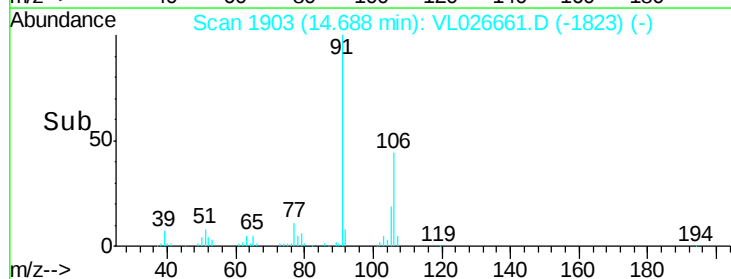
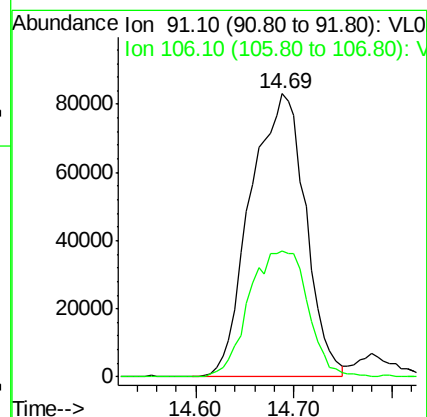
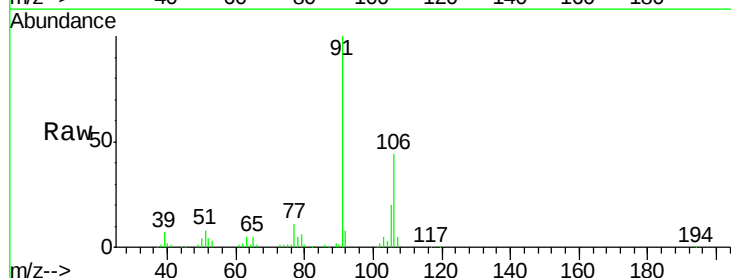
Acq: 9 Jan 2016 5:09

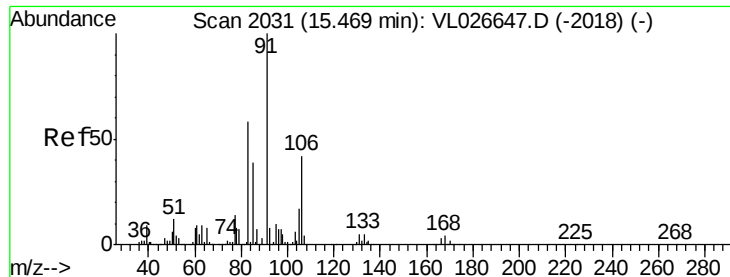
Tgt Ion: 91 Resp: 326847

Ion Ratio Lower Upper

91 100

106 47.4 36.6 55.0





#60

o-Xylene

Concen: 0.43 ppbv

RT: 15.47 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

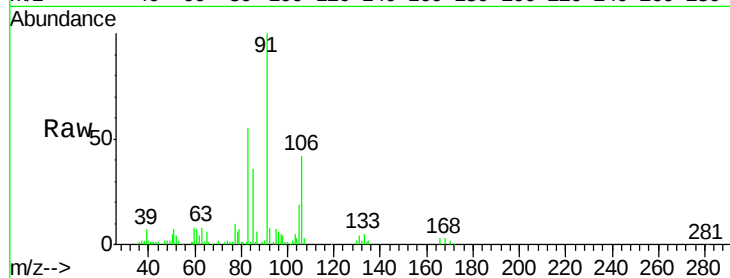
MDL-AIR-3

Tot Ion: 91 Resp: 197632

Ion Ratio Lower Upper

91 100

106 43.6 21.5 64.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

15.47

80000

60000

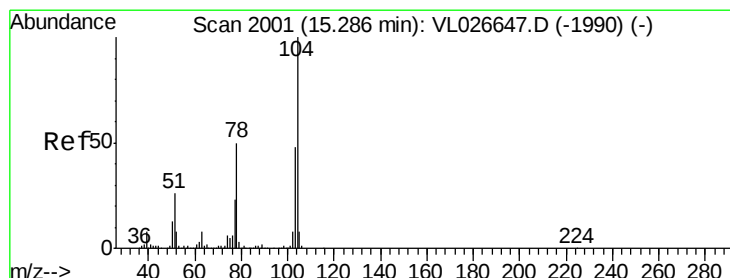
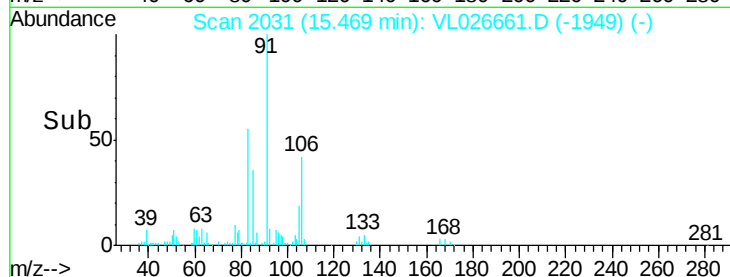
40000

20000

0

15.40 15.50

Time-->



#61

Styrene

Concen: 0.30 ppbv

RT: 15.29 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

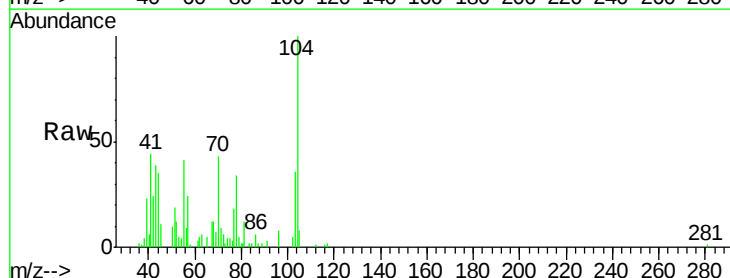
Tgt Ion: 104 Resp: 53559

Ion Ratio Lower Upper

104 100

78 49.4 39.6 59.4

103 48.7 37.8 56.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

30000

25000

20000

15000

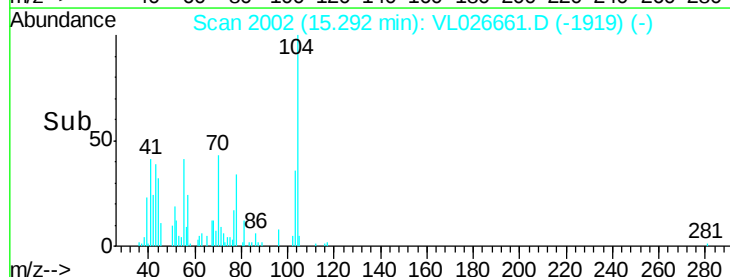
10000

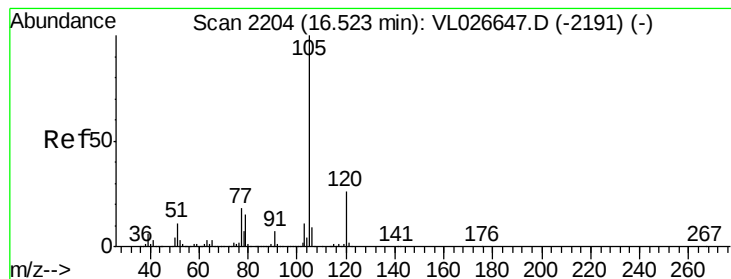
5000

0

15.20 15.30

Time-->





#62

Isopropylbenzene

Concen: 0.40 ppbv

RT: 16.52 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

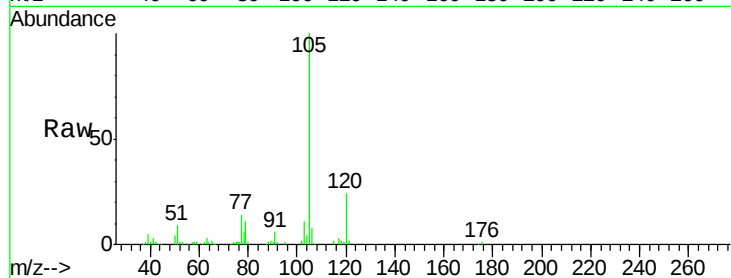
MDL-AIR-3

Tot Ion:105 Resp: 245893

Ion Ratio Lower Upper

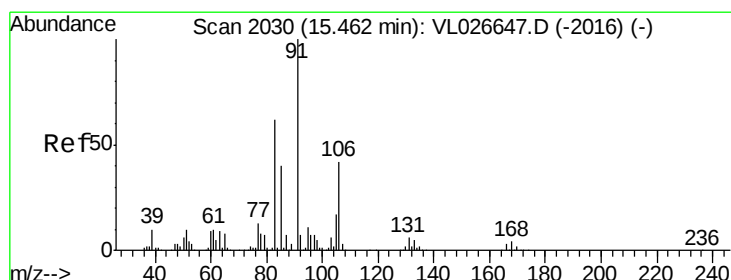
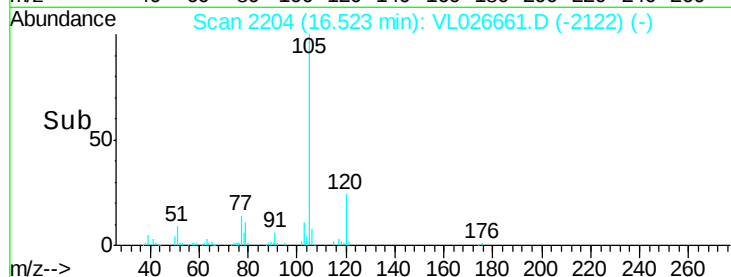
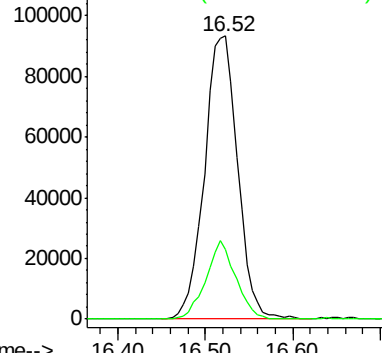
105 100

120 25.0 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.44 ppbv

RT: 15.45 min Scan# 2028

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

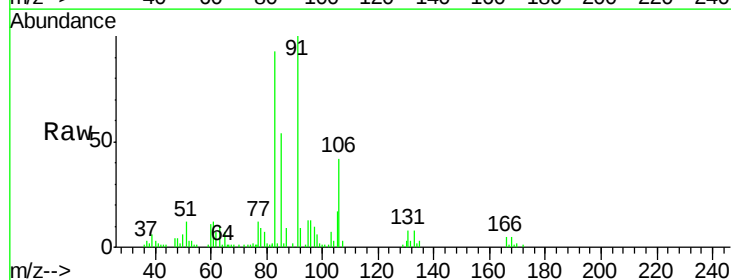
Tgt Ion: 83 Resp: 149632

Ion Ratio Lower Upper

83 100

131 8.6 4.5 13.4

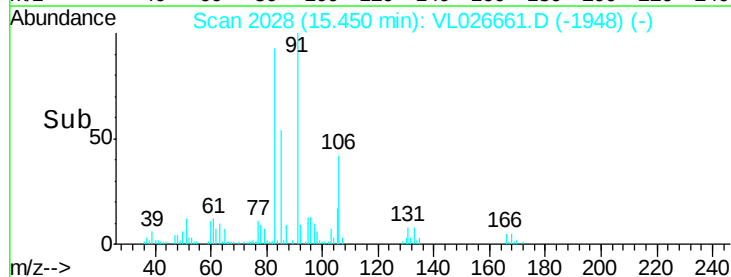
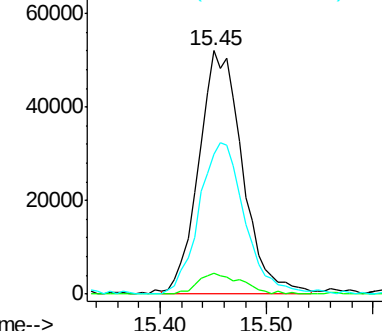
85 65.7 32.6 97.7

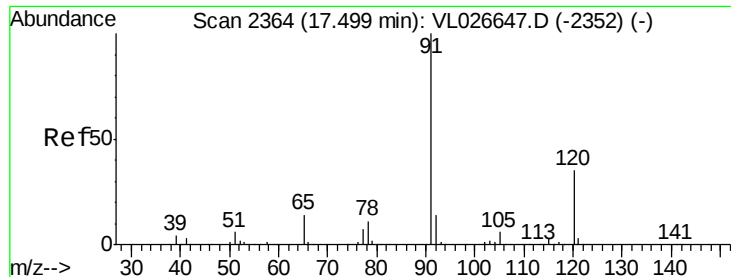


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.39 ppbv

RT: 17.50 min Scan# 2364

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

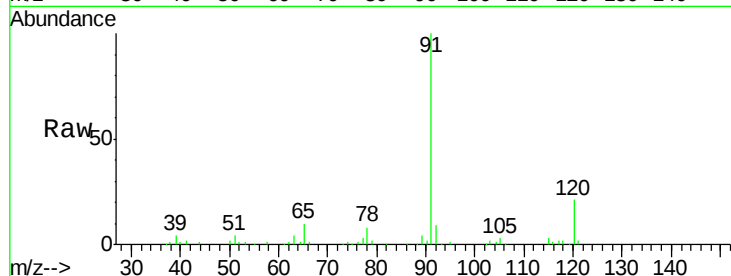
MDL-AIR-3

Tot Ion:120 Resp: 63590

Ion Ratio Lower Upper

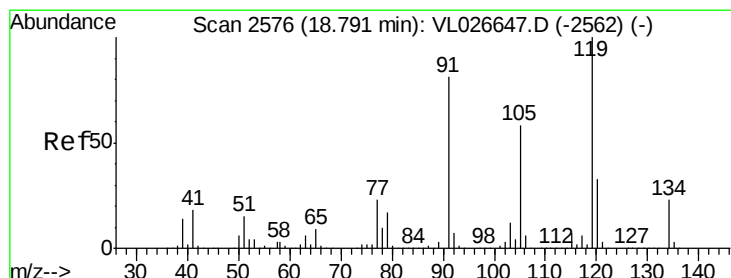
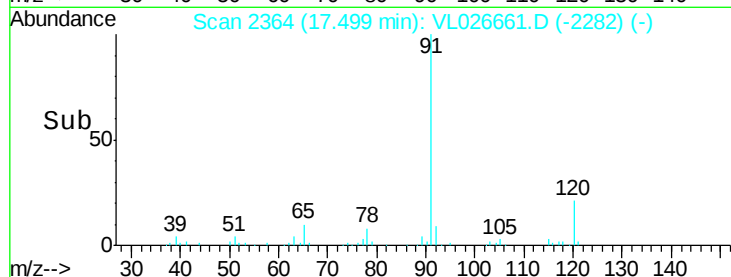
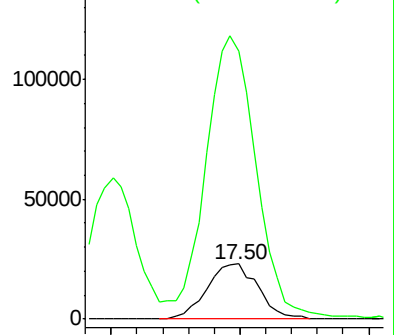
120 100

91 503.7 375.8 563.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.42 ppbv

RT: 18.79 min Scan# 2575

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

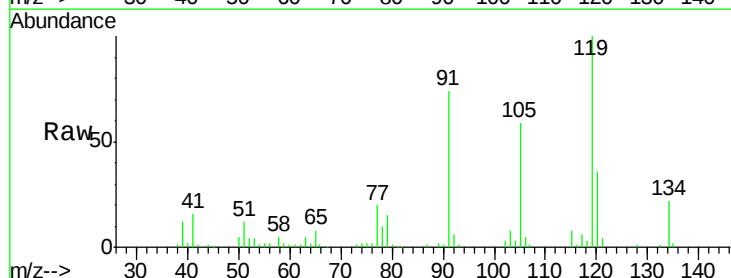
Tgt Ion:119 Resp: 235875

Ion Ratio Lower Upper

119 100

91 74.5 64.8 97.2

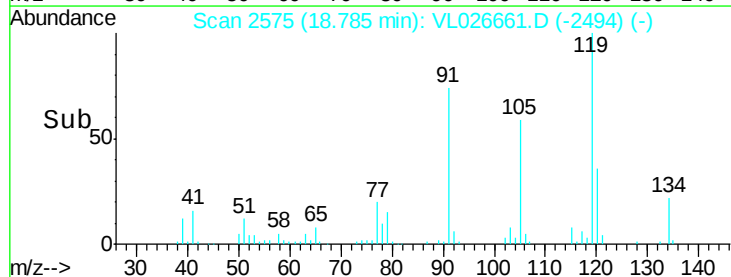
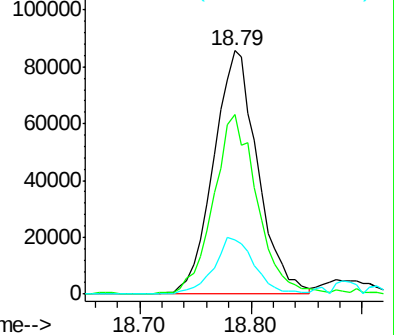
134 22.0 17.4 26.0

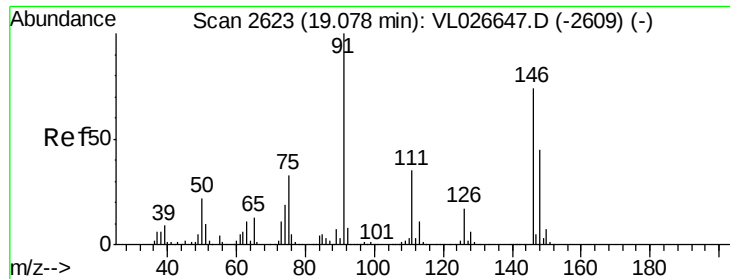


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

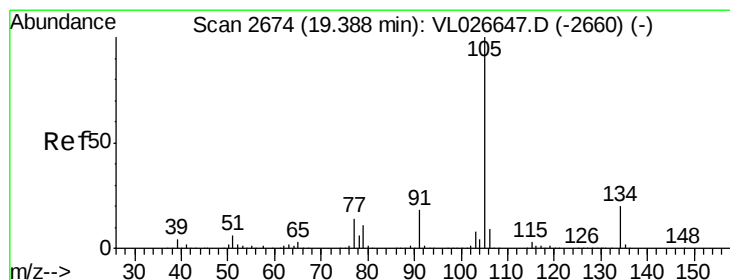
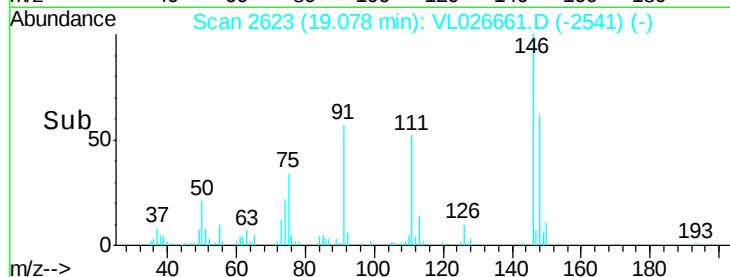
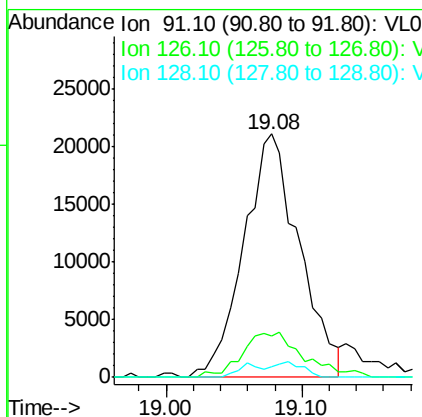
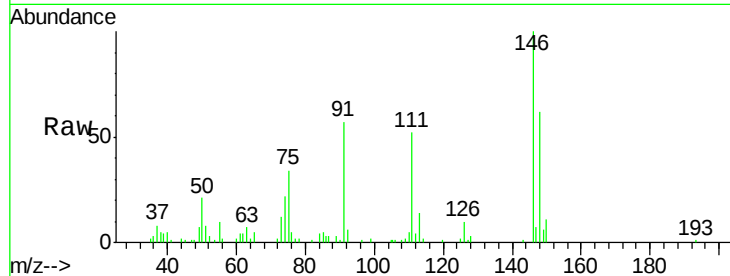




#66
Benzyl Chloride
Concen: 0.30 ppbv
RT: 19.08 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

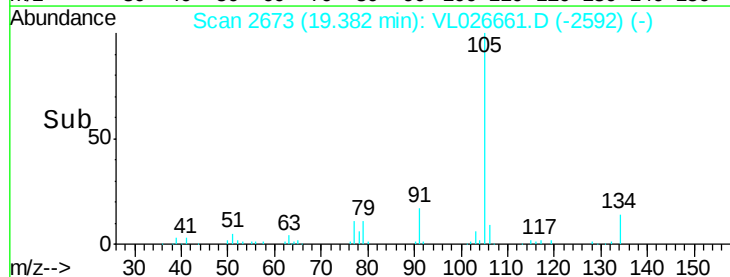
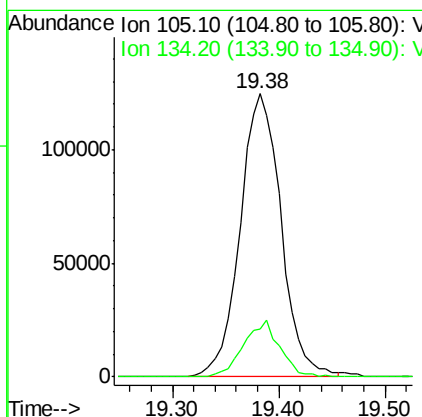
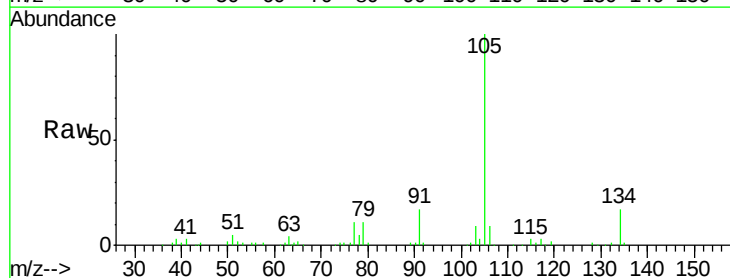
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

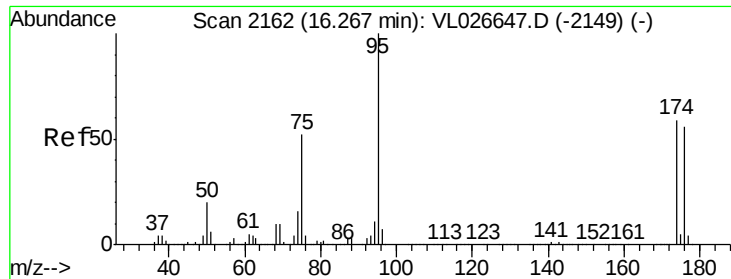
Tot Ion: 91 Resp: 60039
Ion Ratio Lower Upper
91 100
126 20.4 14.2 21.2
128 5.8 4.5 6.7



#67
sec-Butylbenzene
Concen: 0.41 ppbv
RT: 19.38 min Scan# 2673
Delta R.T. -0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion: 105 Resp: 336786
Ion Ratio Lower Upper
105 100
134 17.8 14.9 22.3

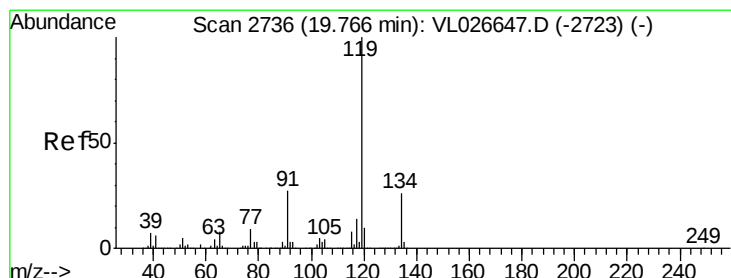
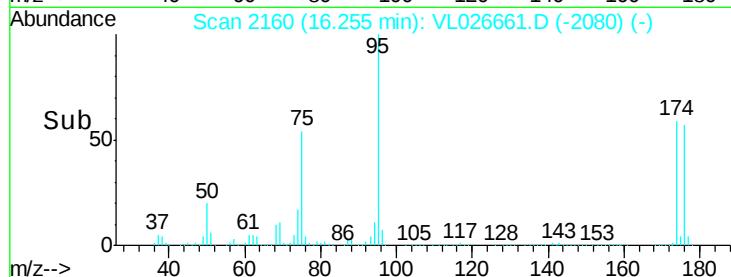
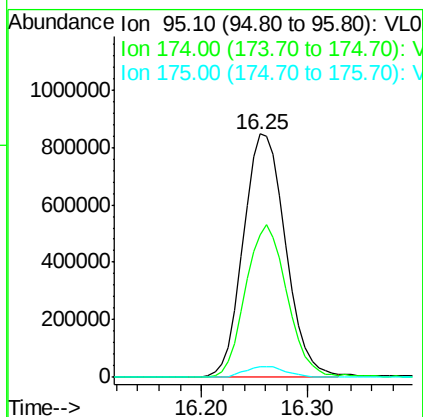
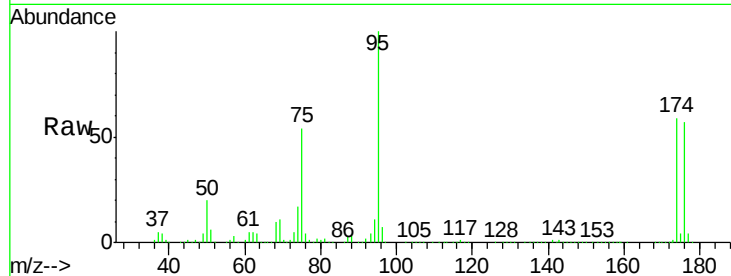




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.29 ppbv
 RT: 16.25 min Scan# 2160
 Delta R.T. -0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

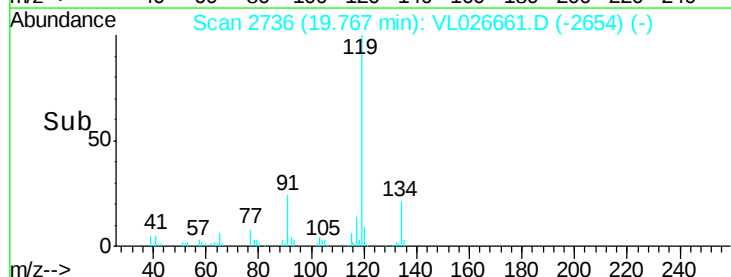
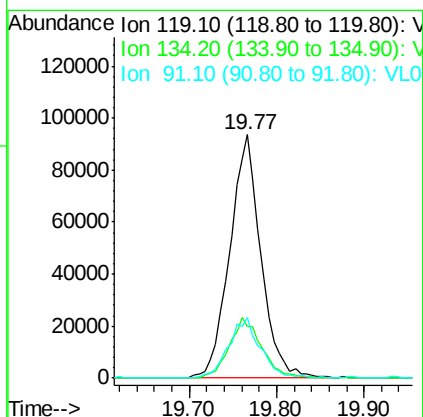
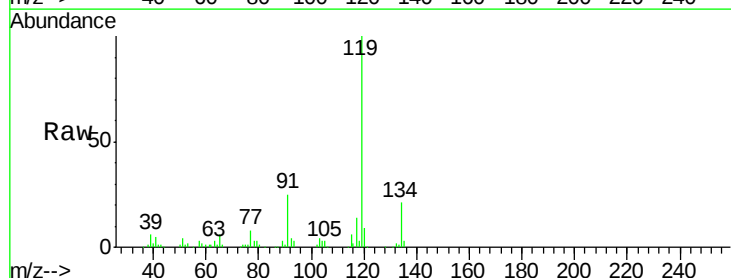
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

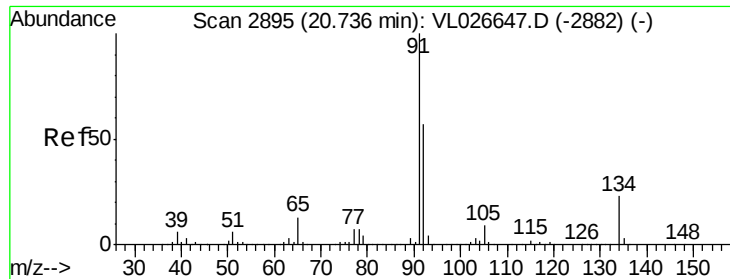
Tot Ion: 95 Resp: 2367031
 Ion Ratio Lower Upper
 95 100
 174 62.4 47.8 71.8
 175 4.4 3.6 5.4



#69
 p-Isopropyltoluene
 Concen: 0.37 ppbv
 RT: 19.77 min Scan# 2736
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion: 119 Resp: 231281
 Ion Ratio Lower Upper
 119 100
 134 25.9 20.6 31.0
 91 25.2 21.7 32.5

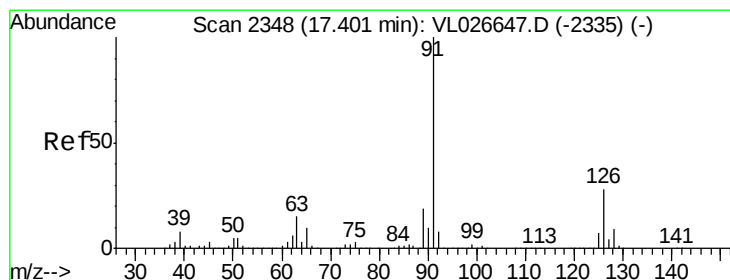
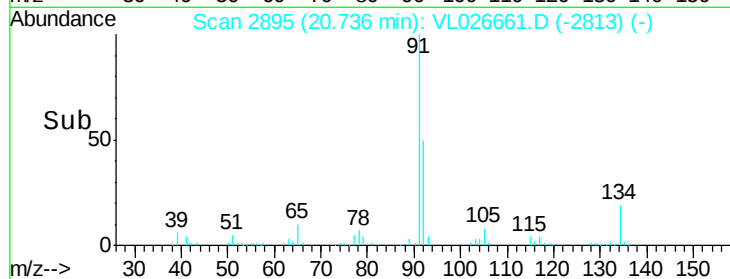
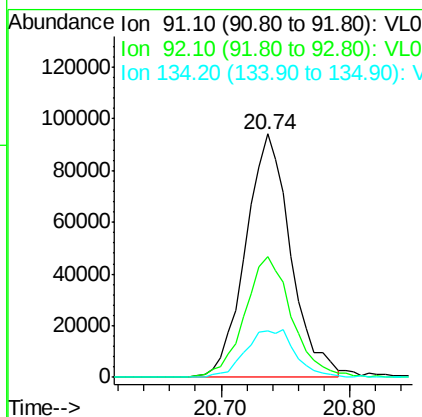
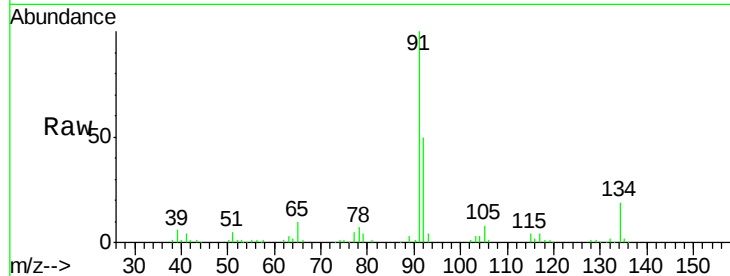




#70
n-Butylbenzene
Concen: 0.35 ppbv
RT: 20.74 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

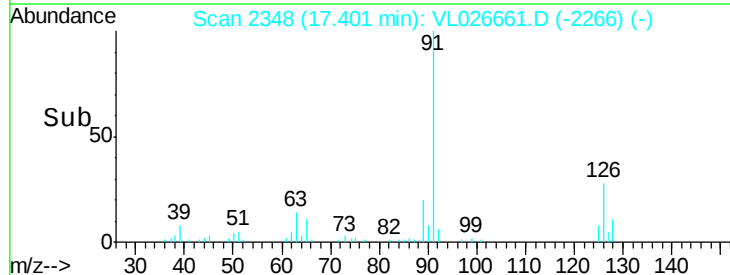
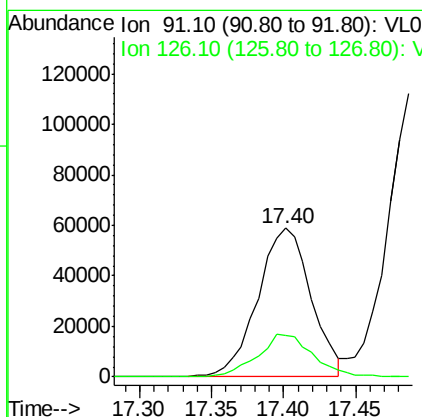
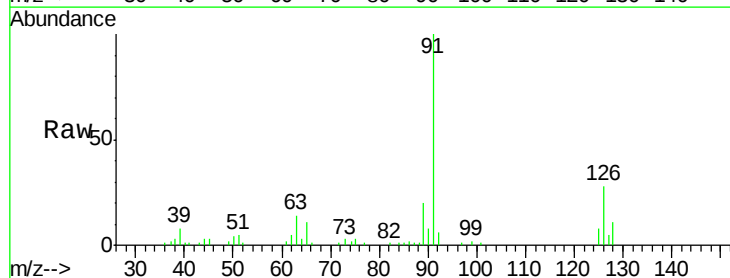
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

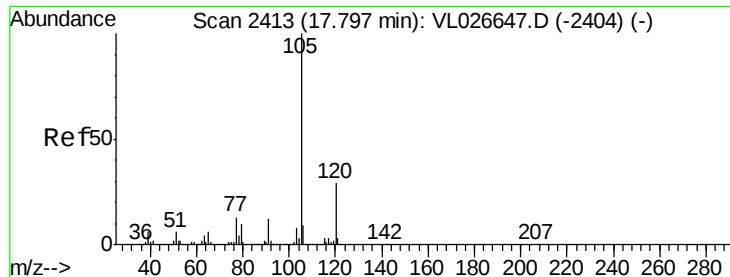
Tot Ion: 91 Resp: 228272
Ion Ratio Lower Upper
91 100
92 52.1 45.0 67.4
134 21.6 18.2 27.2



#71
2-Chlorotoluene
Concen: 0.32 ppbv
RT: 17.40 min Scan# 2348
Delta R.T. 0.00 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion: 91 Resp: 151666
Ion Ratio Lower Upper
91 100
126 30.0 11.4 45.8





#72

4-Ethyltoluene

Concen: 0.35 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

Tot Ion:105 Resp: 181572

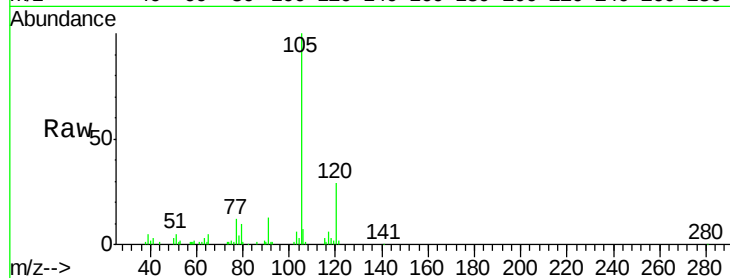
Ion Ratio Lower Upper

105 100

120 27.9 23.7 35.5

91 14.1 9.7 14.5

77 12.3 10.3 15.5

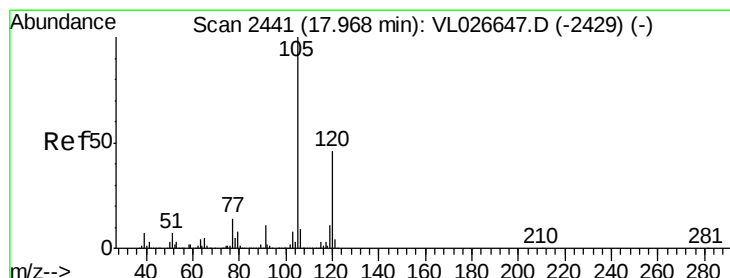
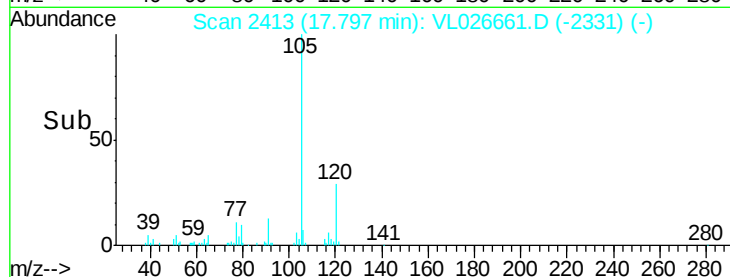
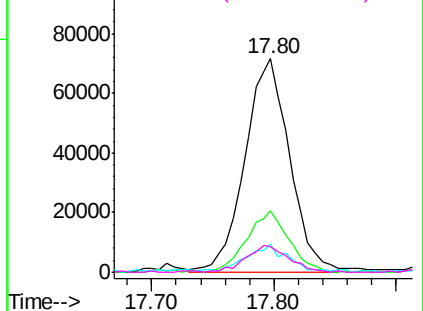


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.37 ppbv

RT: 17.96 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL026661.D

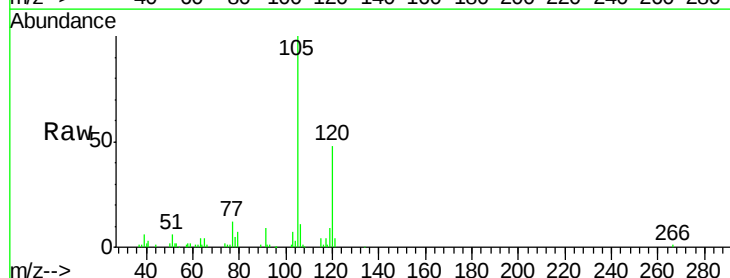
Acq: 9 Jan 2016 5:09

Tgt Ion:105 Resp: 182239

Ion Ratio Lower Upper

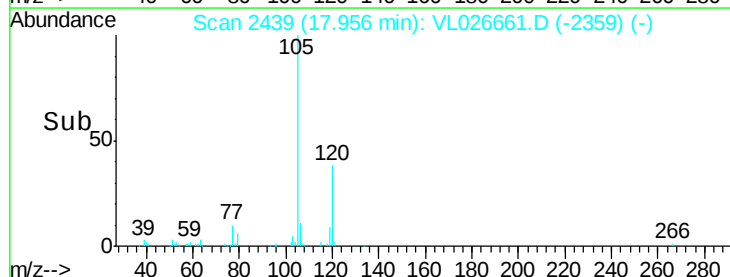
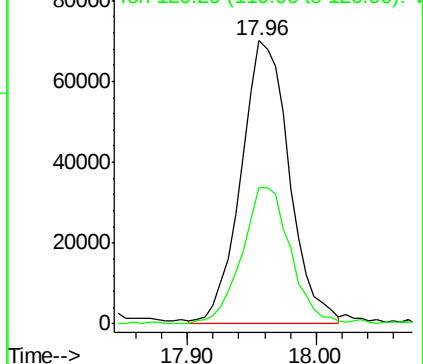
105 100

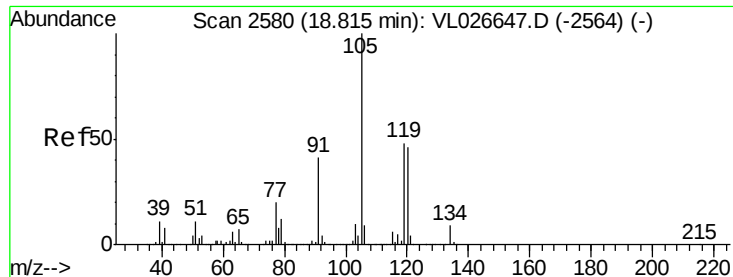
120 48.8 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

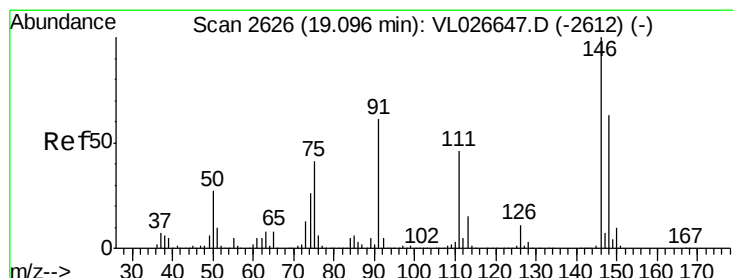
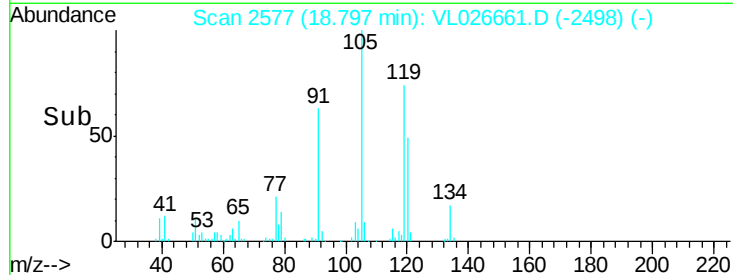
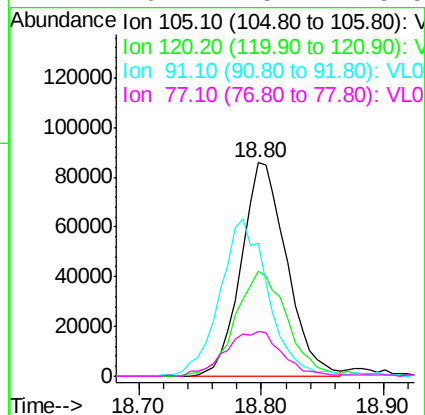
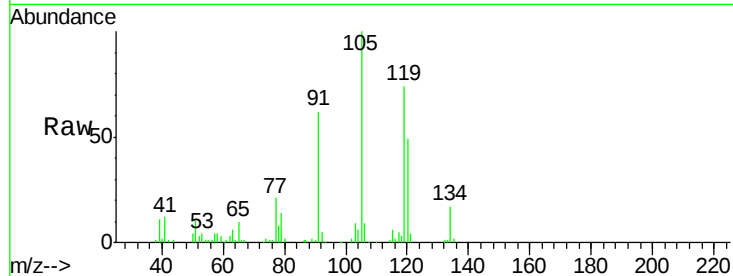




#74
 1,2,4-Trimethylbenzene
 Concen: 0.43 ppbv
 RT: 18.80 min Scan# 2577
 Delta R.T. -0.02 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

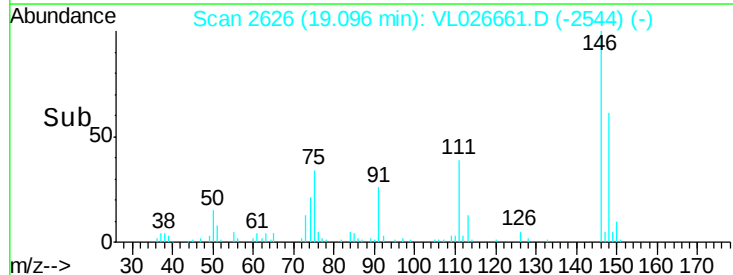
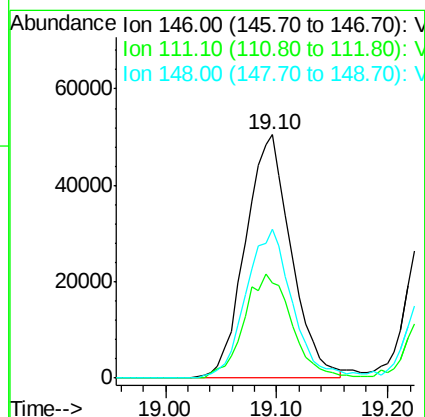
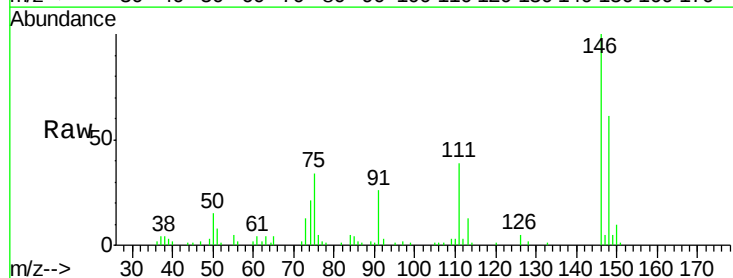
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

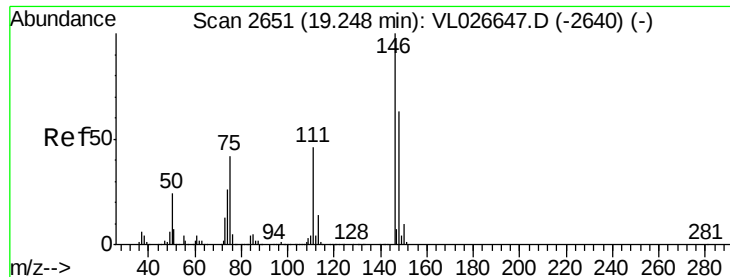
Tot Ion:	105	Resp:	222350
Ion	Ratio	Lower	Upper
105	100		
120	48.0	36.6	55.0
91	61.3	32.5	48.7#
77	20.2	15.7	23.5



#75
 1,3-Dichlorobenzene
 Concen: 0.45 ppbv
 RT: 19.10 min Scan# 2626
 Delta R.T. 0.00 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion:	146	Resp:	144670
Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.9	68.5
148	61.8	31.6	95.0





#76

1,4-Dichlorobenzene

Concen: 0.44 ppbv

RT: 19.25 min Scan# 2651

Delta R.T. 0.00 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-3

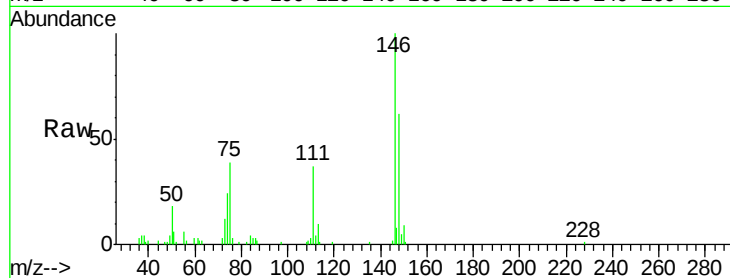
Tot Ion:146 Resp: 142698

Ion Ratio Lower Upper

146 100

111 42.1 22.3 66.8

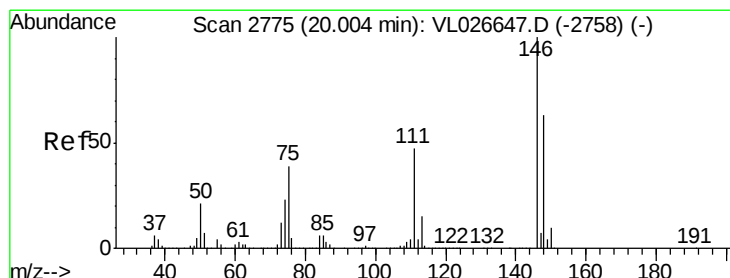
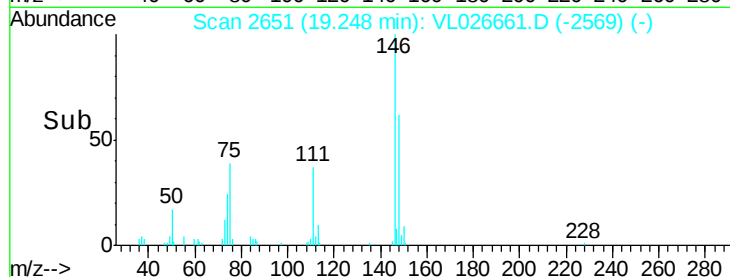
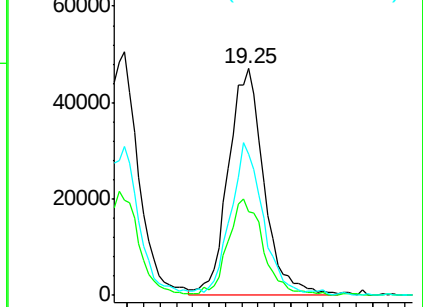
148 63.3 31.9 95.9



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



#77

1,2-Dichlorobenzene

Concen: 0.42 ppbv

RT: 20.00 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL026661.D

Acq: 9 Jan 2016 5:09

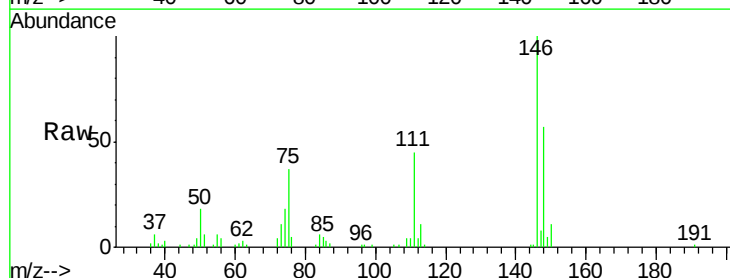
Tgt Ion:146 Resp: 136407

Ion Ratio Lower Upper

146 100

111 47.1 23.7 71.1

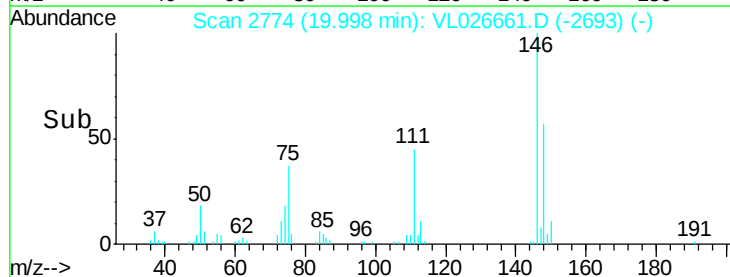
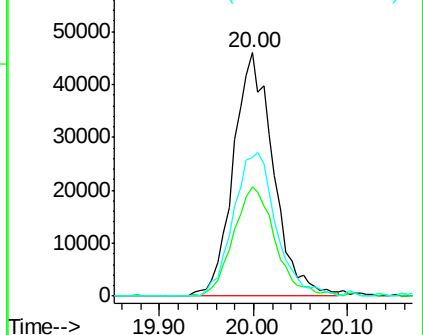
148 64.3 31.1 93.5

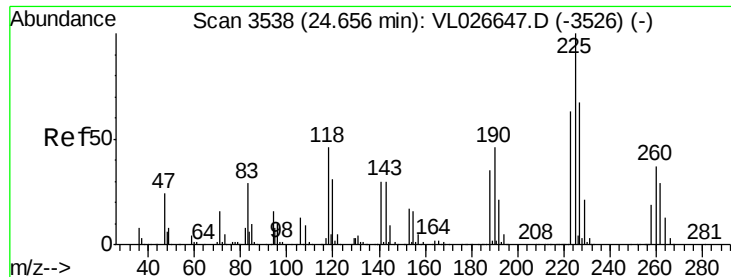


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

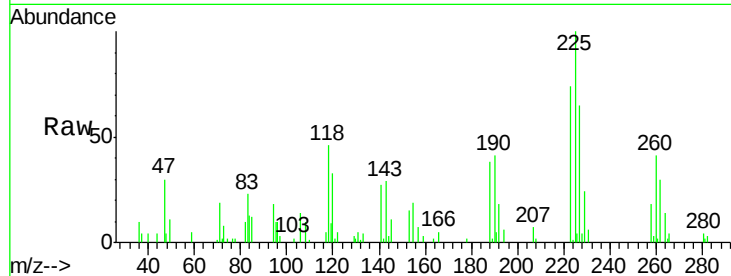




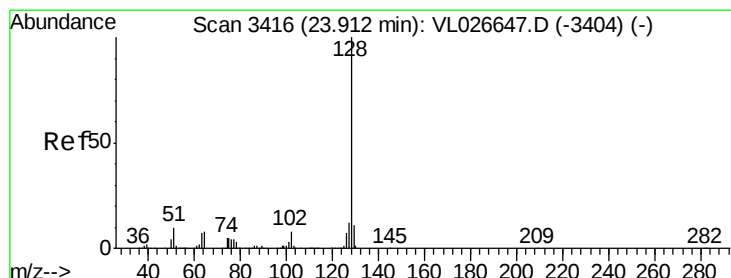
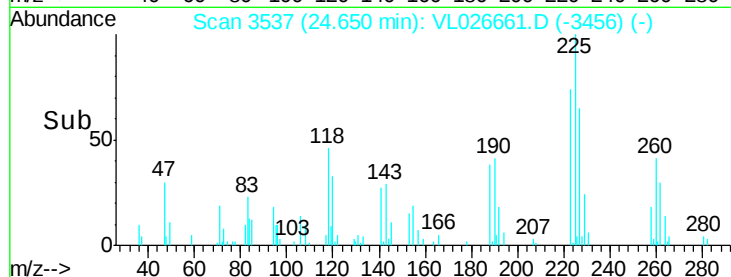
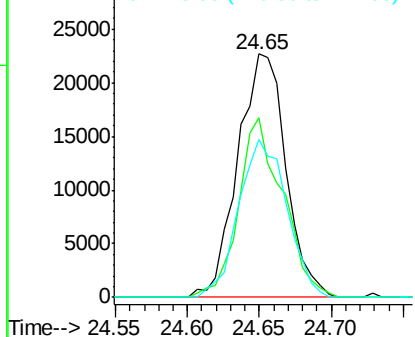
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.40 ppbv
 RT: 24.65 min Scan# 3537
 Delta R.T. -0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Tot Ion:225 Resp: 52523
 Ion Ratio Lower Upper
 225 100
 223 67.9 50.1 75.1
 227 65.1 51.1 76.7

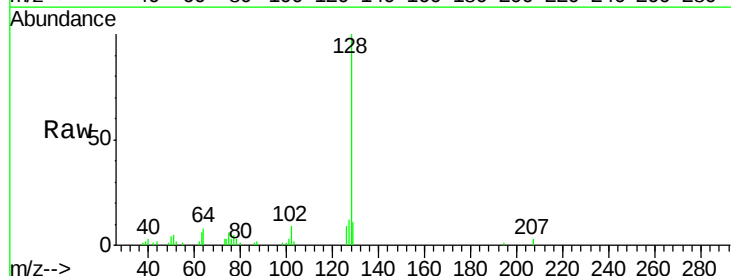


Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V

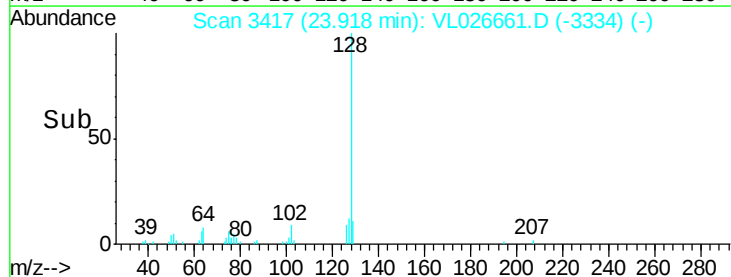
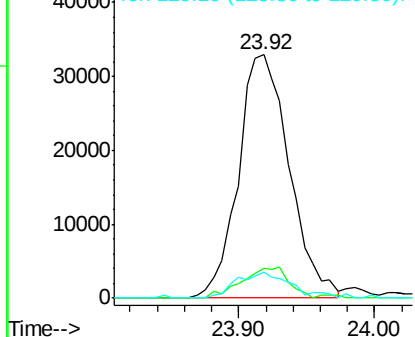


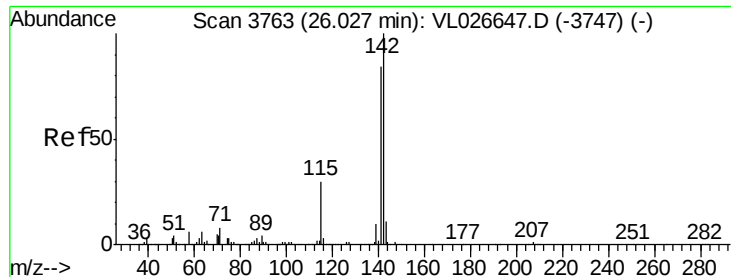
#79
 Naphthalene
 Concen: 0.25 ppbv
 RT: 23.92 min Scan# 3417
 Delta R.T. 0.01 min
 Lab File: VL026661.D
 Acq: 9 Jan 2016 5:09

Tgt Ion:128 Resp: 86001
 Ion Ratio Lower Upper
 128 100
 127 12.1 9.8 14.8
 129 10.6 8.9 13.3



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

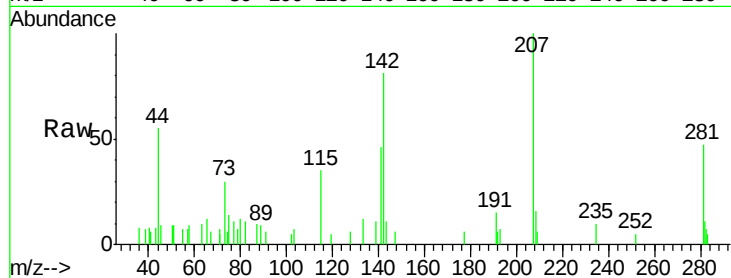




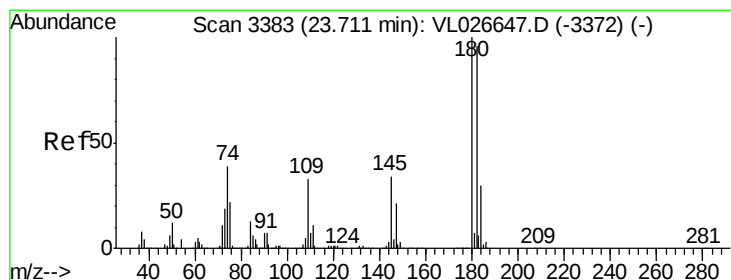
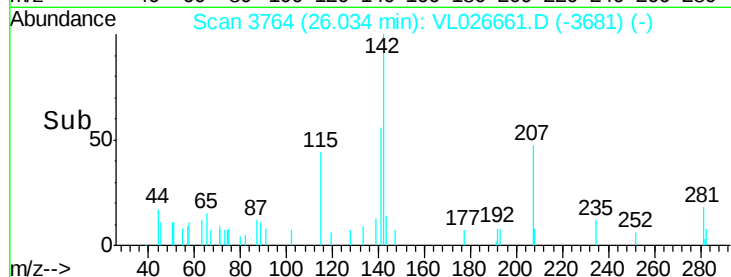
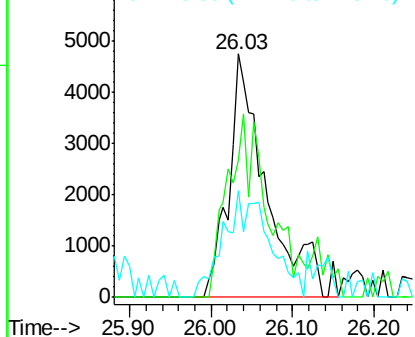
#80
Naphthalene, 2-methyl-
Concen: 0.28 ppbv
RT: 26.03 min Scan# 3764
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tot Ion:142 Resp: 15368
Ion Ratio Lower Upper
142 100
141 91.8 67.0 100.6
115 50.7 24.7 37.1#

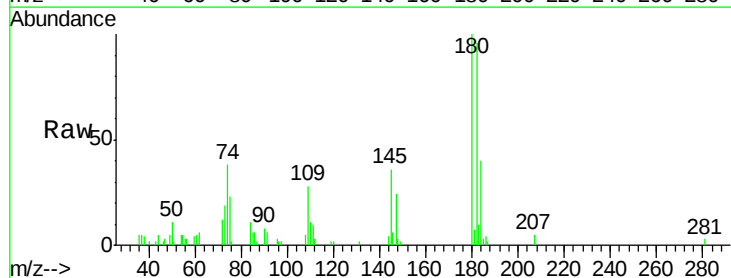


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



#81
1,2,4-Trichlorobenzene
Concen: 0.31 ppbv
RT: 23.72 min Scan# 3384
Delta R.T. 0.01 min
Lab File: VL026661.D
Acq: 9 Jan 2016 5:09

Tgt Ion:180 Resp: 49002
Ion Ratio Lower Upper
180 100
182 97.2 75.4 113.0
184 32.5 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

