

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026669.D
 Acq On : 12 Jan 2016 10:18
 Operator : SY/AP
 Sample : VL0112ABL01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

Quant Time: Jan 13 04:23:52 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	6.65	49	817348	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	8.32	114	2449132	10.00	ppbv	0.01
55) Chlorobenzene-d5	13.74	117	3219505	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	2682747	10.45	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

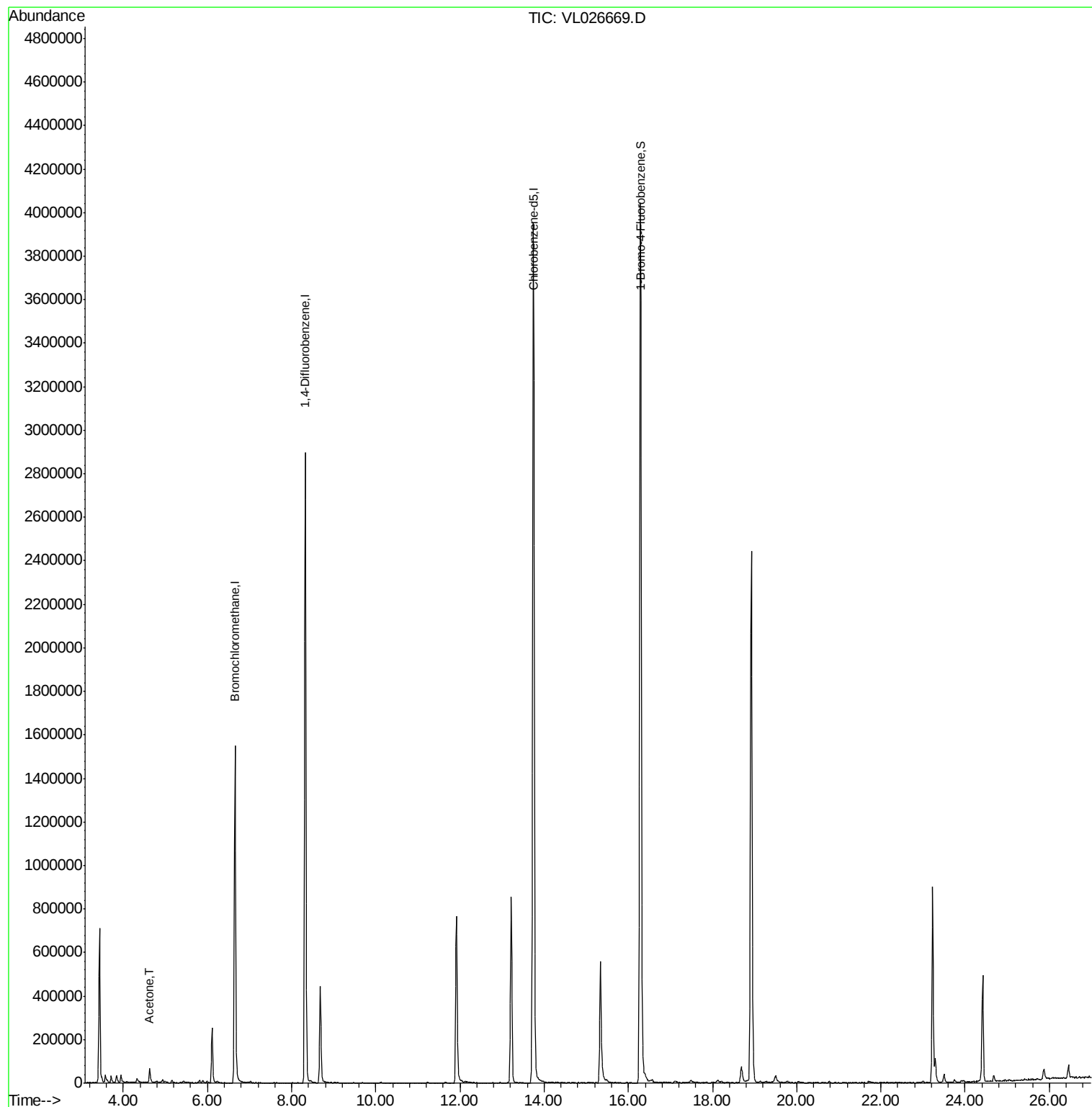
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
15) Acetone	4.63	43	48544	0.36	ppbv	# 1

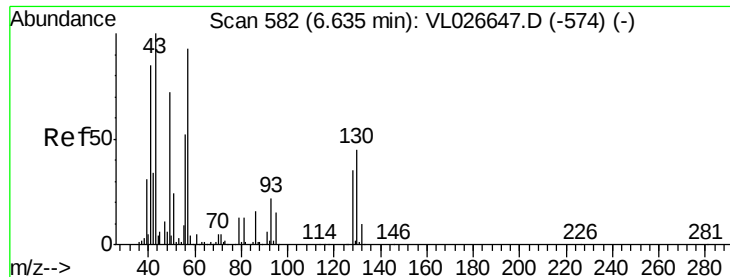
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
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Acq On : 12 Jan 2016 10:18
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

Quant Time: Jan 13 04:23:52 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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VL026669.D

Acq: 12 Jan 2016 10:18

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

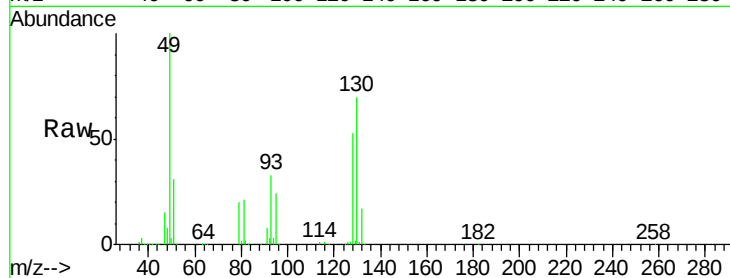
Tot Ion: 49 Resp: 817348

Ion Ratio Lower Upper

49 100

128 55.9 25.9 77.7

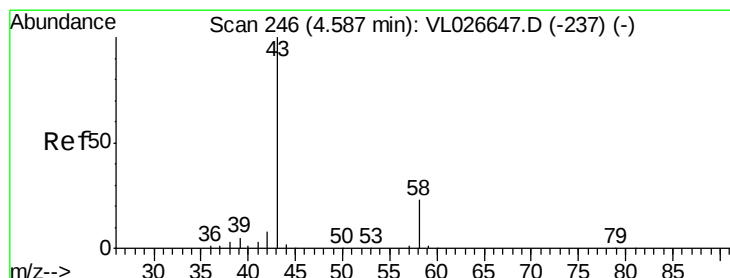
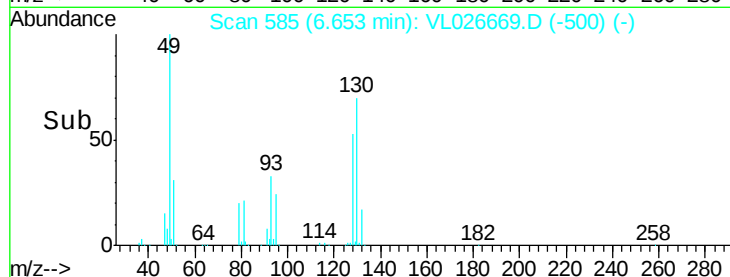
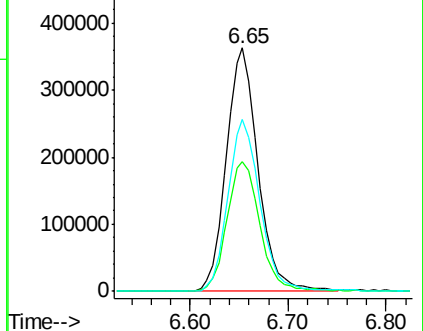
130 72.4 33.6 100.8



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



#15

Acetone

Concen: 0.36 ppbv

RT: 4.63 min Scan# 253

Delta R.T. 0.04 min

Lab File: VL026669.D

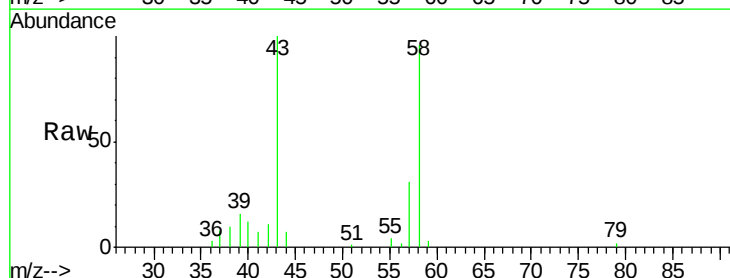
Acq: 12 Jan 2016 10:18

Tgt Ion: 43 Resp: 48544

Ion Ratio Lower Upper

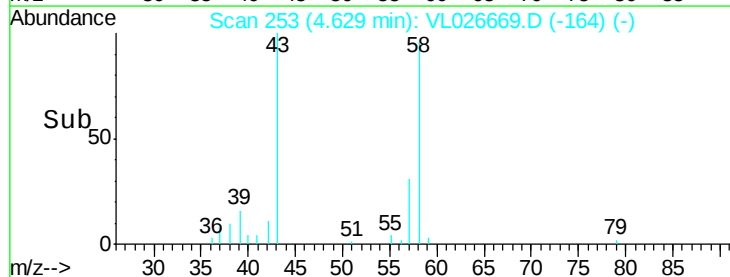
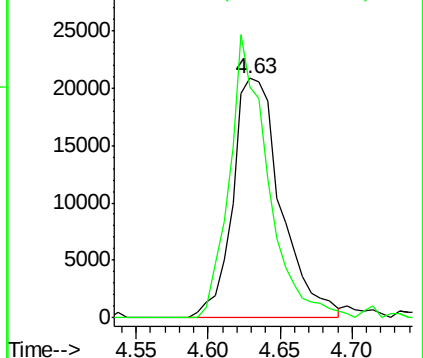
43 100

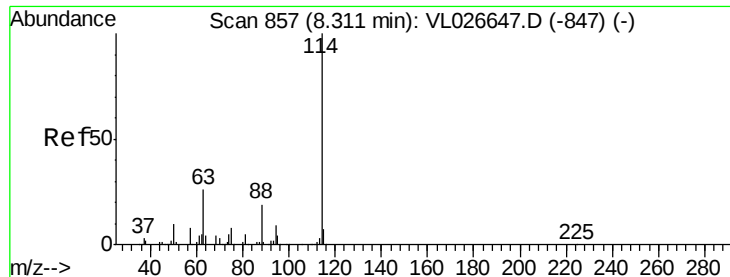
58 95.5 19.2 28.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

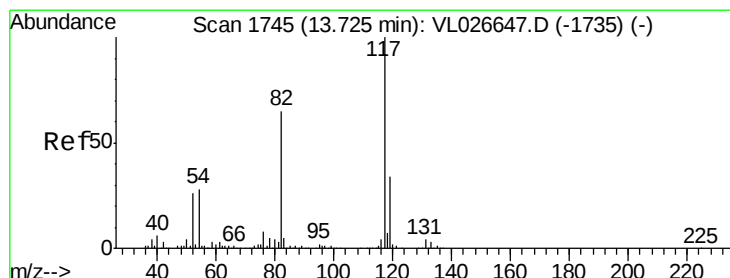
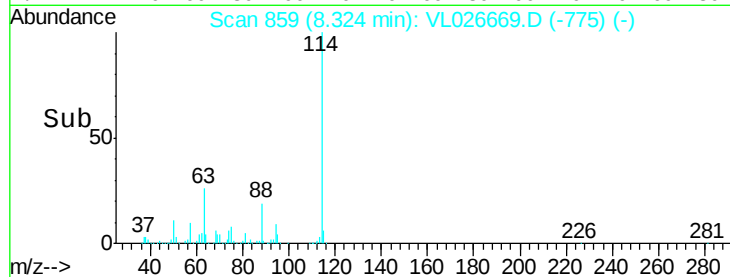
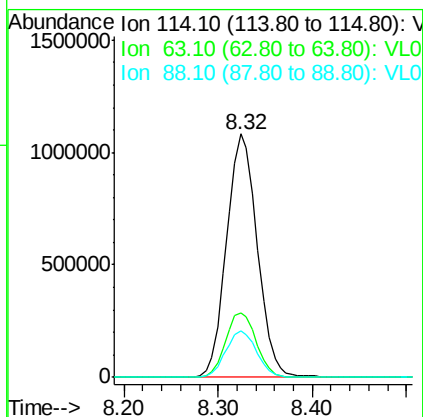
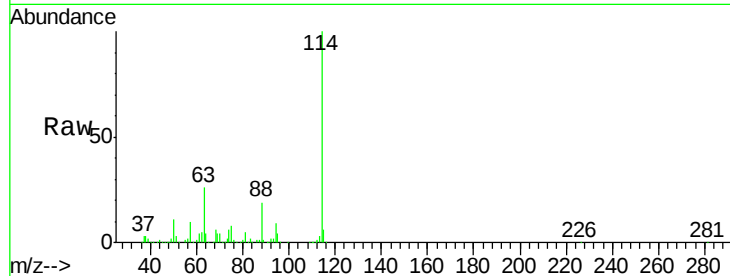




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 859
 Delta R.T. 0.01 min
 Lab File: VL026669.D
 Acq: 12 Jan 2016 10:18

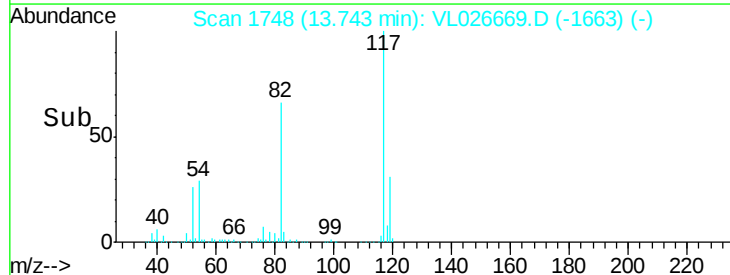
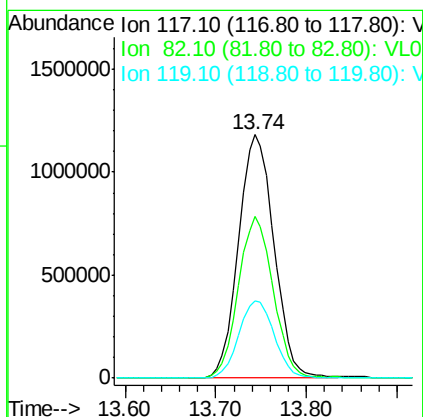
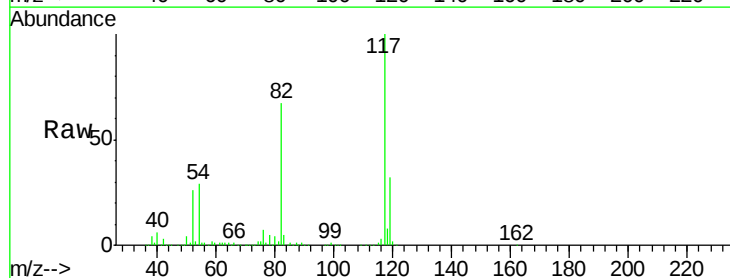
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

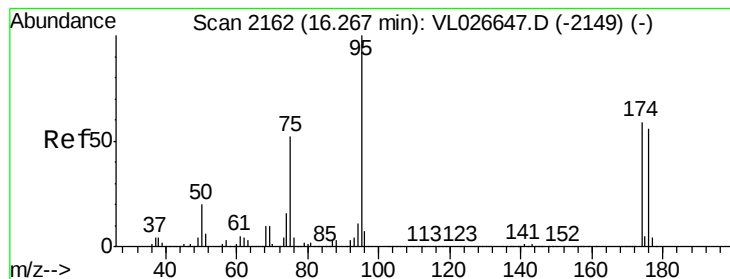
Tot Ion:114 Resp: 2449132
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.7 32.5
 88 19.2 15.2 22.8



#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 13.74 min Scan# 1748
 Delta R.T. 0.02 min
 Lab File: VL026669.D
 Acq: 12 Jan 2016 10:18

Tgt Ion:117 Resp: 3219505
 Ion Ratio Lower Upper
 117 100
 82 66.0 49.7 74.5
 119 32.3 43.8 65.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.45 ppbv

RT: 16.29 min Scan# 2165

Delta R.T. 0.02 min

Lab File: VL026669.D

Acq: 12 Jan 2016 10:18

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

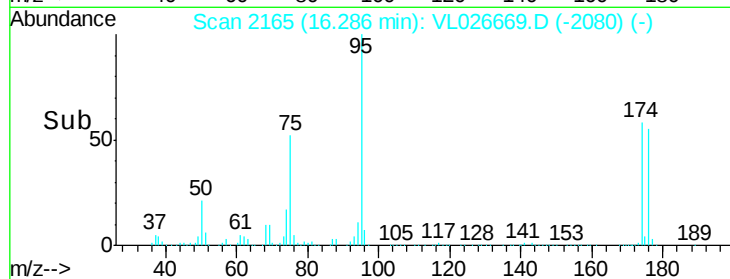
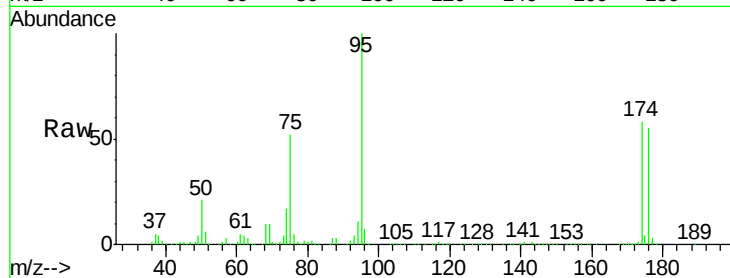
Tot Ion: 95 Resp: 2682747

Ion Ratio Lower Upper

95 100

174 61.1 47.8 71.8

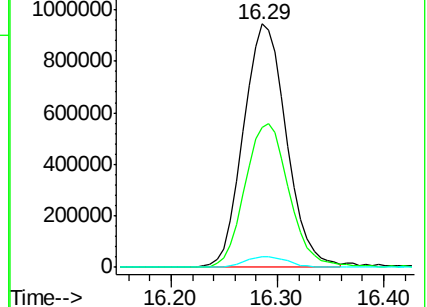
175 4.5 3.6 5.4



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



Data Path : W:\HPCHEM1\MSVOA_L\Data\VL011216\
 Data File : VL026670.D
 Acq On : 12 Jan 2016 11:09
 Operator : SY/AP
 Sample : VL0112ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

Quant Time: Jan 13 04:27:18 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	6.67	49	807030	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	8.34	114	2494563	10.00	ppbv	0.03
55) Chlorobenzene-d5	13.76	117	3197930m	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.31	95	2605157	10.22	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	2188329	10.20	ppbv	99
3) Chlorodifluoromethane	3.58	51	998377	9.29	ppbv	99
4) Chloromethane	3.76	50	490949	9.34	ppbv	98
5) Vinyl Chloride	3.90	62	570076	8.95	ppbv	100
6) Bromomethane	4.15	94	468252	10.33	ppbv	100
7) Chloroethane	4.24	64	257385	10.00	ppbv	97
8) Dichlorotetrafluoroethane	3.81	85	1661065	9.85	ppbv	99
9) Propene	3.60	41	353731	9.16	ppbv	96
10) Heptane	9.37	43	1328380	9.23	ppbv	95
11) Trichlorofluoromethane	4.70	101	2263070	10.17	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.31	101	1358649	9.94	ppbv	100
13) Ethanol	4.34	45	48040	6.55	ppbv	97
14) Bromoethene	4.46	108	503245	10.22	ppbv	98
15) Acetone	4.61	43	1114128	8.39	ppbv	99
16) 1,3-Butadiene	3.98	39	515481	9.73	ppbv	100
17) tert-Butyl alcohol	5.14	59	933714	9.33	ppbv	100
18) 1,1-Dichloroethene	5.09	96	574413	10.08	ppbv	99
19) Isopropyl Alcohol	4.76	45	471287	8.61	ppbv #	97
20) Methylene Chloride	5.16	84	515316	9.46	ppbv	97
21) Allyl Chloride	5.23	41	780776	9.59	ppbv	97
22) trans-1,2-Dichloroethene	5.78	96	640905	9.85	ppbv	96
23) Vinyl Acetate	5.99	43	1856718	9.11	ppbv	98
24) 1,1-Dichloroethane	5.92	63	1404924	9.56	ppbv	100
25) Ethyl Acetate	6.68	43	1933767	9.44	ppbv	100
26) Hexane	6.67	57	998121	9.42	ppbv	97
27) Carbon Disulfide	5.40	76	1635062	10.38	ppbv	99
28) Methyl tert-Butyl Ether	5.96	73	2086985	9.91	ppbv	99
29) Chloroform	6.76	83	1863762	9.69	ppbv	99
30) Cyclohexane	8.29	84	1068857	10.22	ppbv	96
31) cis-1,2-Dichloroethene	6.53	61	1064780	9.97	ppbv	97
32) 1,1,1-Trichloroethane	7.61	97	2051766	9.45	ppbv	99
34) 2-Butanone	6.21	43	1138813	8.56	ppbv	97
35) Carbon Tetrachloride	8.17	117	2051941	9.35	ppbv	99
36) Benzene	8.04	78	2378415	9.26	ppbv	99
37) 1,2-Dichloroethane	7.38	62	1649161	9.39	ppbv	100
38) Trichloroethene	9.08	130	939509	8.20	ppbv	98
39) 1,2-Dichloropropane	8.84	63	795966	8.97	ppbv	96
40) 1,4-Dioxane	9.13	88	165221	8.10	ppbv #	1
41) Tetrahydrofuran	7.13	42	607963	9.23	ppbv	98
42) Bromodichloromethane	9.04	83	2174656	9.59	ppbv	98
43) Methyl Methacrylate	9.28	69	917831	9.79	ppbv	97

Data Path : W:\HPCHEM1\MSVOA_L\Data\VL011216\
 Data File : VL026670.D
 Acq On : 12 Jan 2016 11:09
 Operator : SY/AP
 Sample : VL0112ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

Quant Time: Jan 13 04:27:18 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

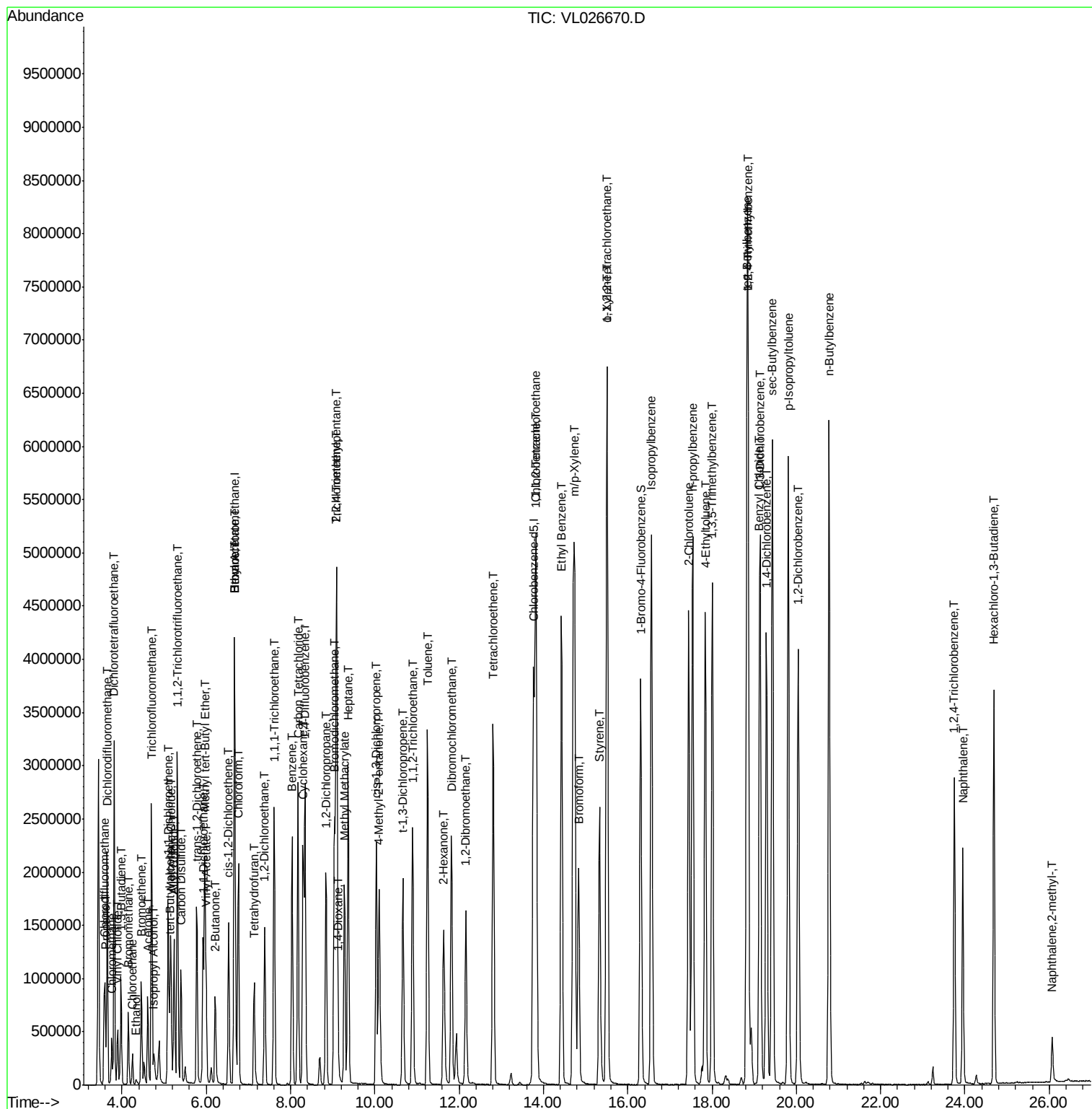
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.10	57	3665362	8.84	ppbv	100
45) t-1,3-Dichloropropene	10.66	75	1588778	10.47	ppbv	99
46) cis-1,3-Dichloropropene	10.04	75	1738773	10.07	ppbv	95
47) 1,1,2-Trichloroethane	10.90	97	1148379	9.08	ppbv	98
48) Dibromochloromethane	11.82	129	1853128	9.76	ppbv	100
49) Bromoform	14.83	173	1500073	9.69	ppbv	99
50) 4-Methyl-2-Pentanone	10.10	43	1715891	9.18	ppbv	99
51) 2-Hexanone	11.63	43	1660418	9.64	ppbv #	98
52) Tetrachloroethene	12.80	164	1060690	8.26	ppbv	99
53) Toluene	11.25	91	3404430	9.41	ppbv	100
54) 1,2-Dibromoethane	12.16	107	1793252	8.95	ppbv	100
56) 1,1,1,2-Tetrachloroethane	13.80	131	1380733	9.38	ppbv	98
57) Chlorobenzene	13.83	112	2826344	8.58	ppbv	98
58) Ethyl Benzene	14.43	91	5430382	9.51	ppbv	100
59) m/p-Xylene	14.73	91	8400501m	17.84	ppbv	
60) o-Xylene	15.51	91	4319742	8.49	ppbv	99
61) Styrene	15.33	104	2055419	10.34	ppbv	98
62) Isopropylbenzene	16.56	105	6061653	9.00	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.50	83	2710366	7.15	ppbv	99
64) n-propylbenzene	17.54	120	1619466	8.96	ppbv	99
65) tert-Butylbenzene	18.83	119	5142105	8.33	ppbv	99
66) Benzyl Chloride	19.12	91	2061109	9.35	ppbv	100
67) sec-Butylbenzene	19.43	105	7927902	8.66	ppbv	99
69) p-Isopropyltoluene	19.81	119	6240272	8.91	ppbv	99
70) n-Butylbenzene	20.77	91	6452972	8.85	ppbv	100
71) 2-Chlorotoluene	17.44	91	4912492	9.36	ppbv	98
72) 4-Ethyltoluene	17.84	105	5237751	9.21	ppbv	100
73) 1,3,5-Trimethylbenzene	18.00	105	4803964	8.91	ppbv	97
74) 1,2,4-Trimethylbenzene	18.85	105	4675946	8.17	ppbv #	90
75) 1,3-Dichlorobenzene	19.14	146	2913853	8.24	ppbv	99
76) 1,4-Dichlorobenzene	19.29	146	3059938	8.43	ppbv	99
77) 1,2-Dichlorobenzene	20.05	146	2982596	8.31	ppbv	99
78) Hexachloro-1,3-Butadiene	24.69	225	935991	6.39	ppbv	100
79) Naphthalene	23.95	128	2600628	6.73	ppbv	100
80) Naphthalene,2-methyl-	26.07	142	345835	5.77	ppbv	99
81) 1,2,4-Trichlorobenzene	23.75	180	1251658	7.12	ppbv	99

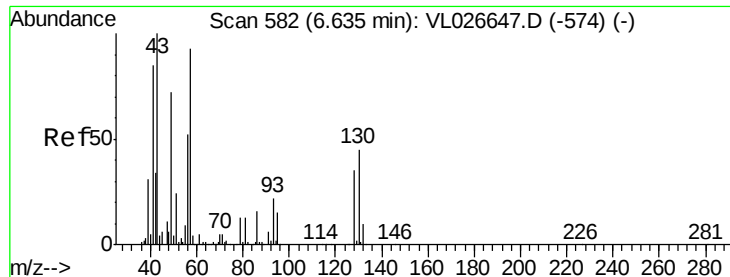
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Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

Quant Time: Jan 13 04:27:18 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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

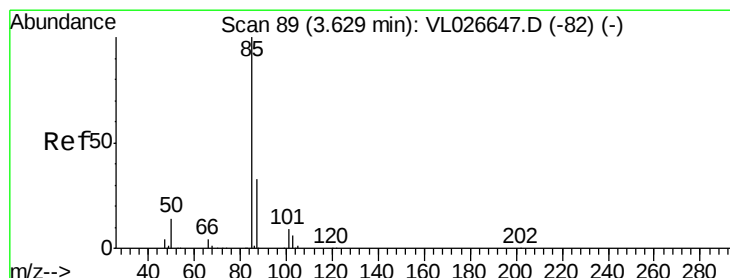
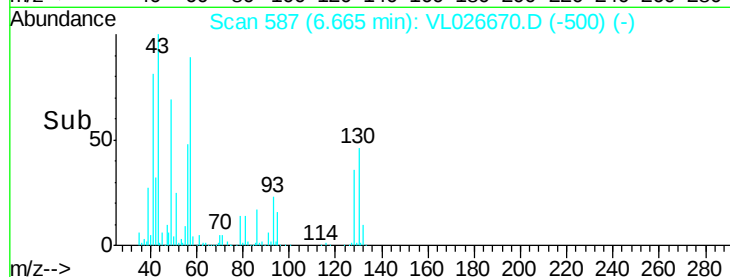
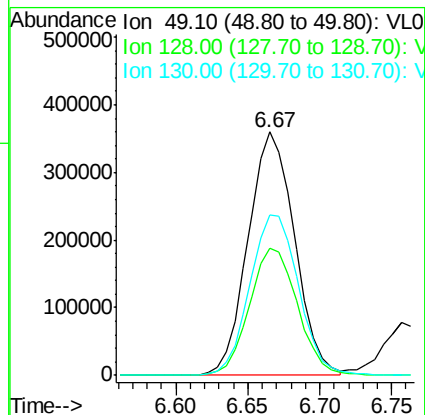
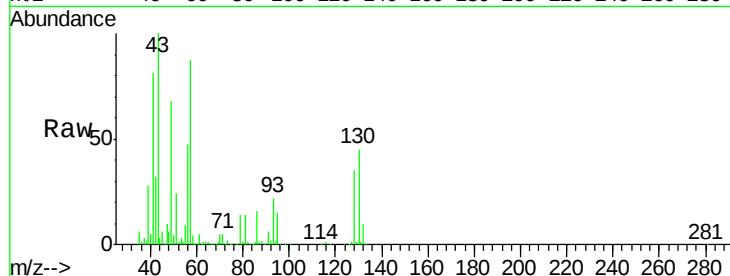
Tgt Ion: 49 Resp: 807030

Ion Ratio Lower Upper

49 100

128 54.4 25.9 77.7

130 69.8 33.6 100.8



#2

Dichlorodifluoromethane

Concen: 10.20 ppbv

RT: 3.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VL026670.D

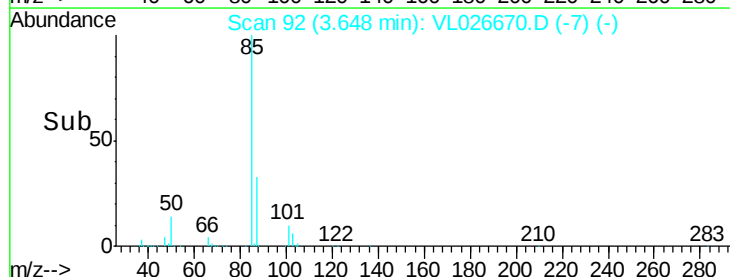
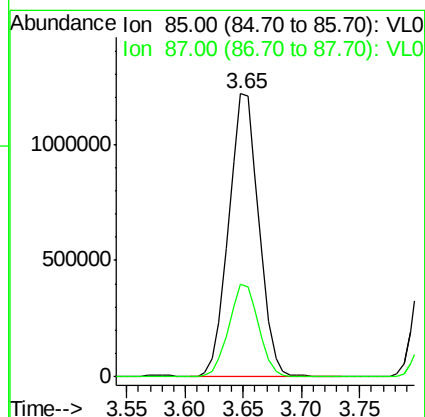
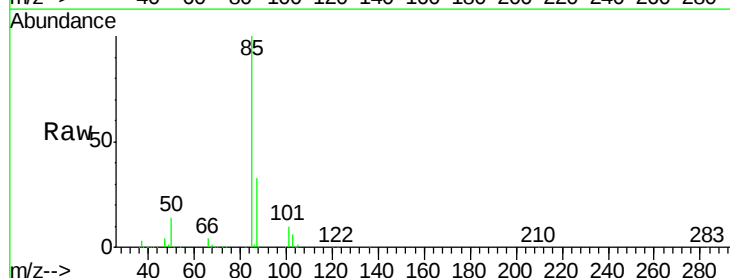
Acq: 12 Jan 2016 11:09

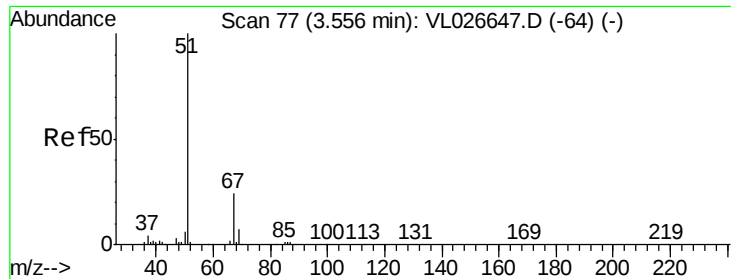
Tgt Ion: 85 Resp: 2188329

Ion Ratio Lower Upper

85 100

87 32.7 26.4 39.6





#3

Chlorodifluoromethane

Concen: 9.29 ppbv

RT: 3.58 min Scan# 81

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

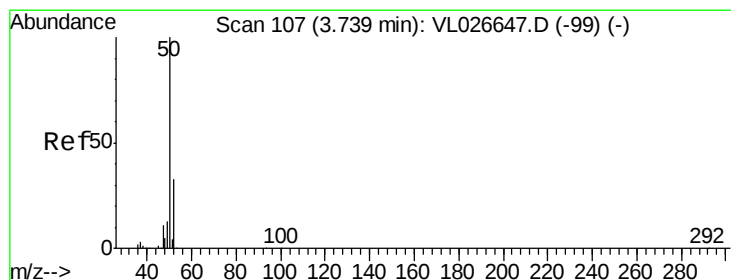
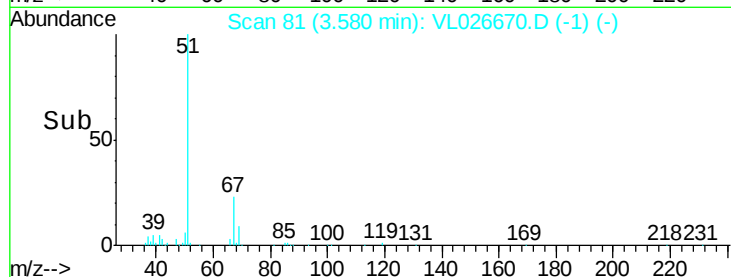
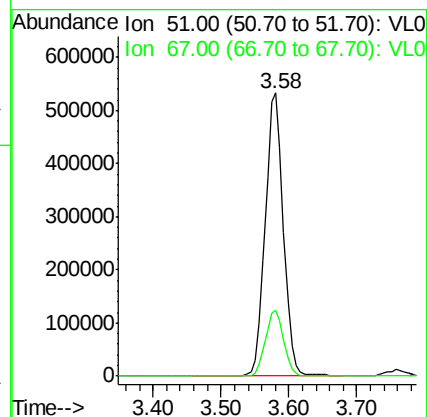
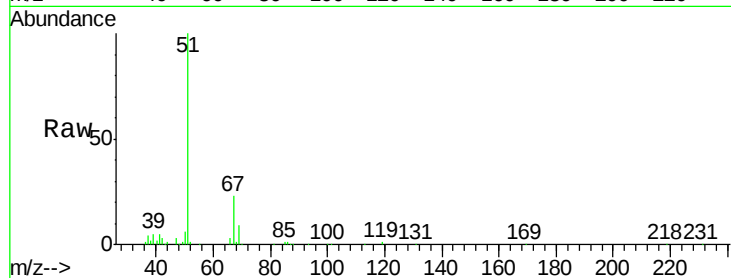
VL0112ABL01

Tgt Ion: 51 Resp: 998377

Ion Ratio Lower Upper

51 100

67 23.6 18.6 28.0



#4

Chloromethane

Concen: 9.34 ppbv

RT: 3.76 min Scan# 110

Delta R.T. 0.02 min

Lab File: VL026670.D

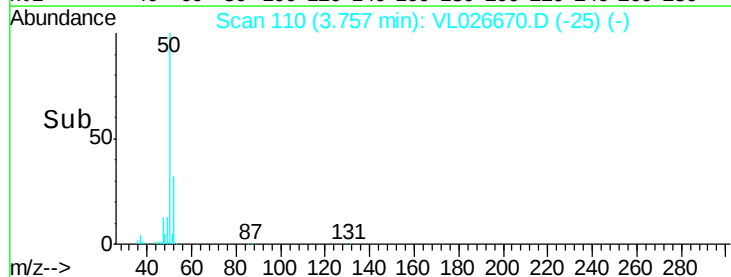
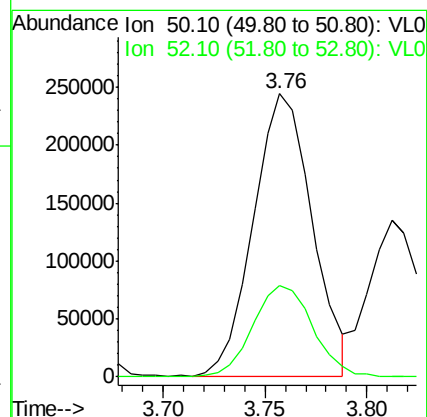
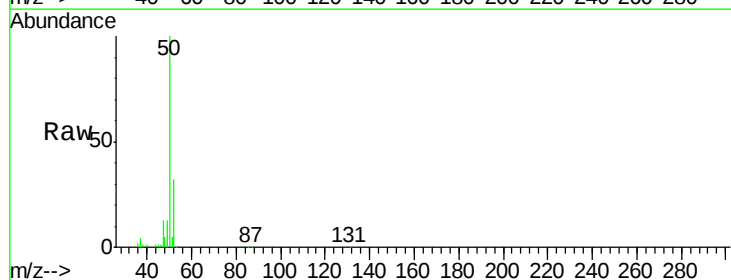
Acq: 12 Jan 2016 11:09

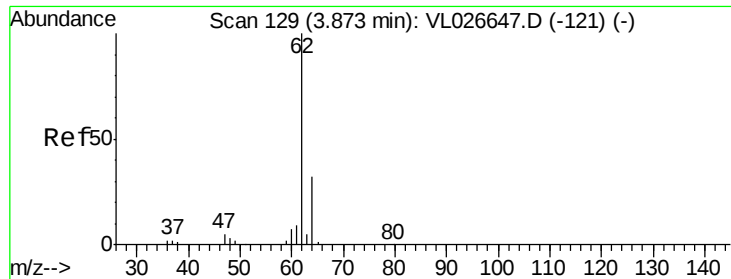
Tgt Ion: 50 Resp: 490949

Ion Ratio Lower Upper

50 100

52 32.5 26.7 40.1





#5

Vinyl Chloride

Concen: 8.95 ppbv

RT: 3.90 min Scan# 133

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

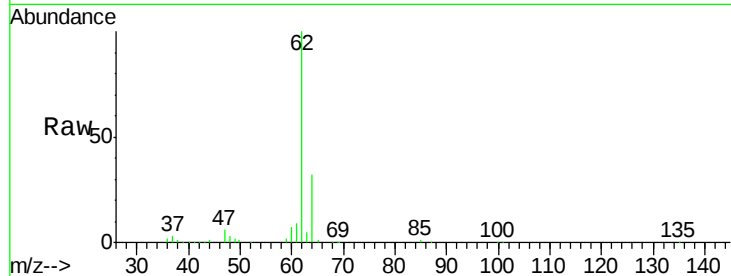
VL0112ABL01

Tgt Ion: 62 Resp: 570076

Ion Ratio Lower Upper

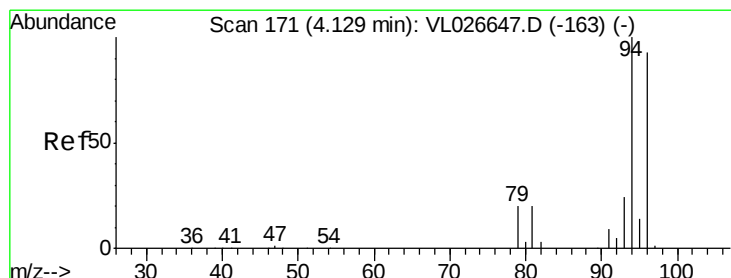
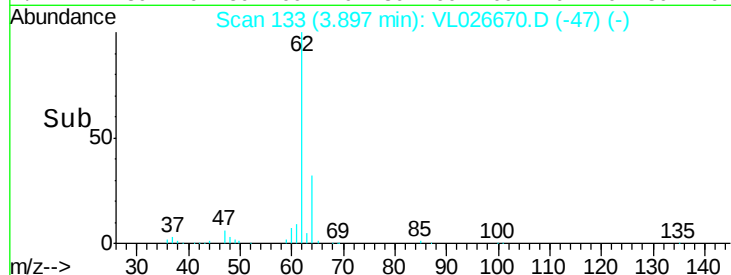
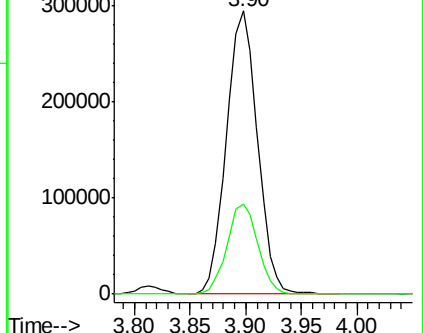
62 100

64 31.9 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.33 ppbv

RT: 4.15 min Scan# 174

Delta R.T. 0.02 min

Lab File: VL026670.D

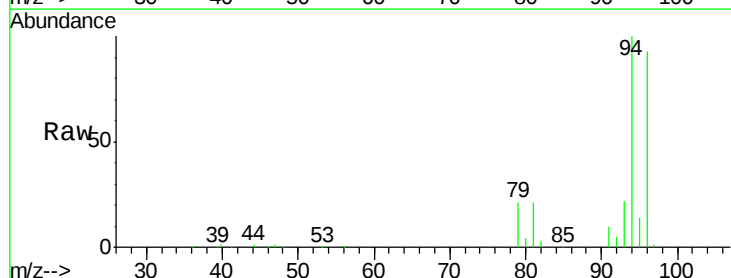
Acq: 12 Jan 2016 11:09

Tgt Ion: 94 Resp: 468252

Ion Ratio Lower Upper

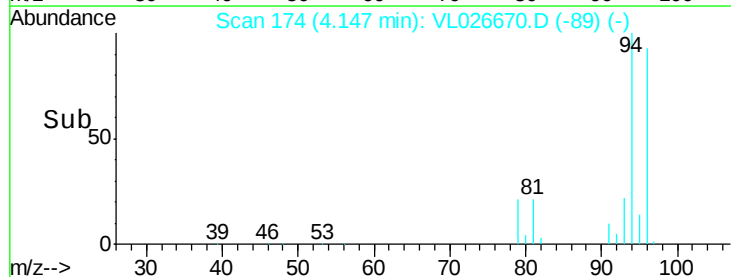
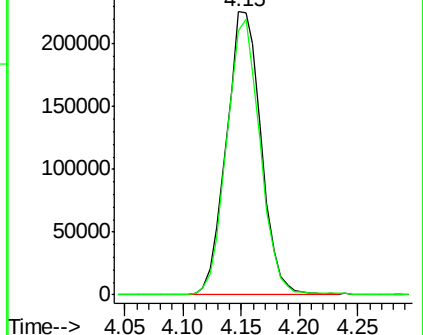
94 100

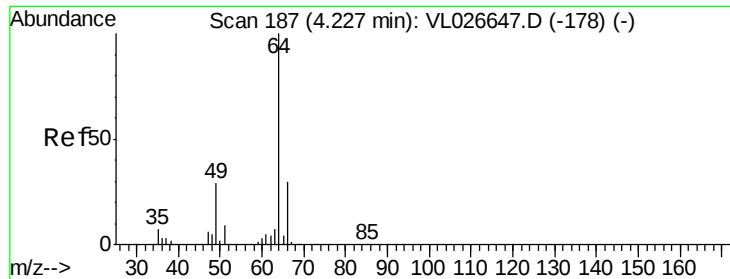
96 93.2 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.00 ppbv

RT: 4.24 min Scan# 190

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

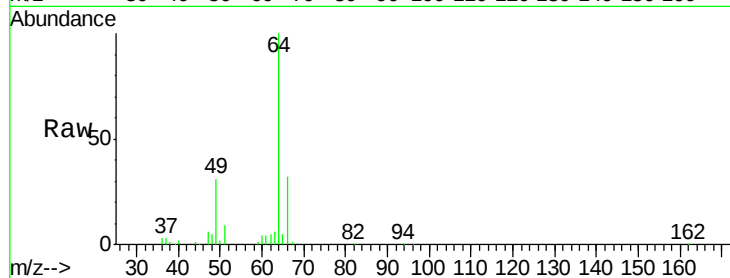
VL0112ABL01

Tgt Ion: 64 Resp: 257385

Ion Ratio Lower Upper

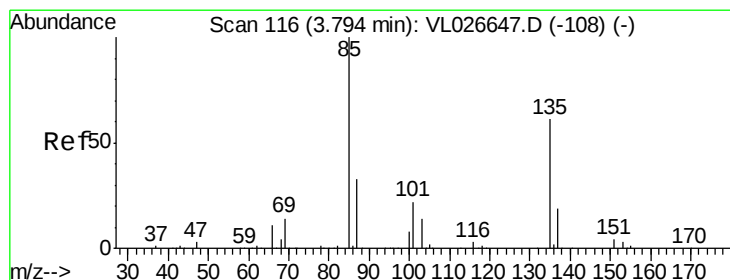
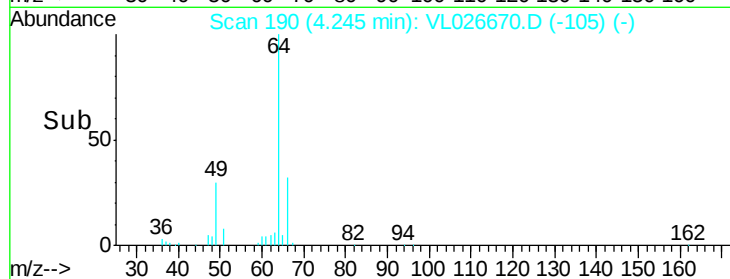
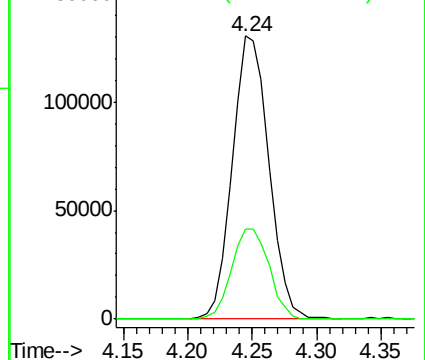
64 100

66 31.9 24.3 36.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.85 ppbv

RT: 3.81 min Scan# 119

Delta R.T. 0.02 min

Lab File: VL026670.D

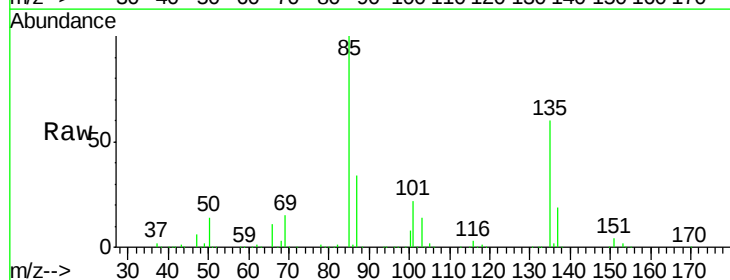
Acq: 12 Jan 2016 11:09

Tgt Ion: 85 Resp: 1661065

Ion Ratio Lower Upper

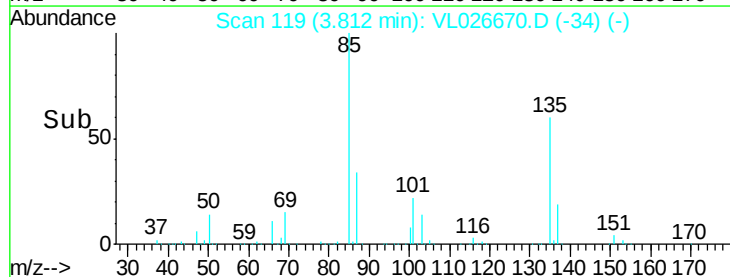
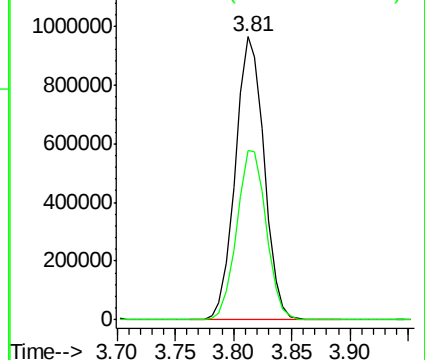
85 100

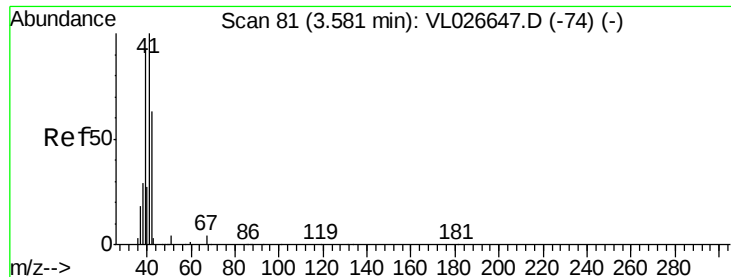
135 61.8 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.16 ppbv

RT: 3.60 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

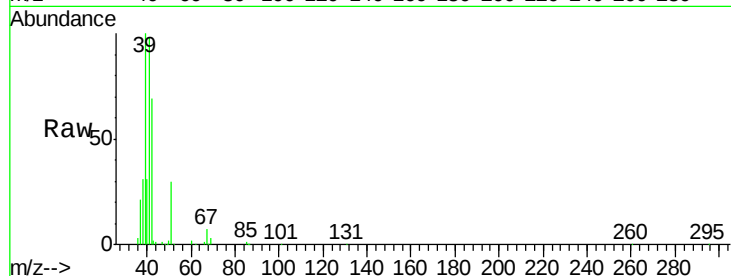
VL0112ABL01

Tgt Ion: 41 Resp: 353731

Ion Ratio Lower Upper

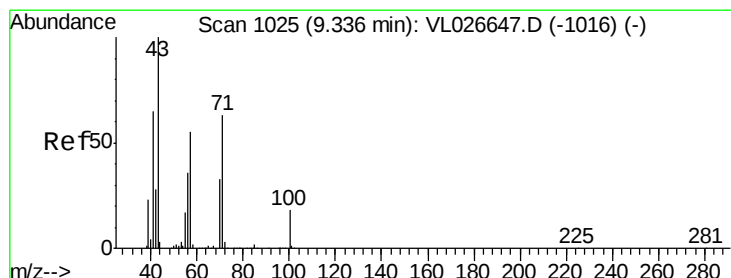
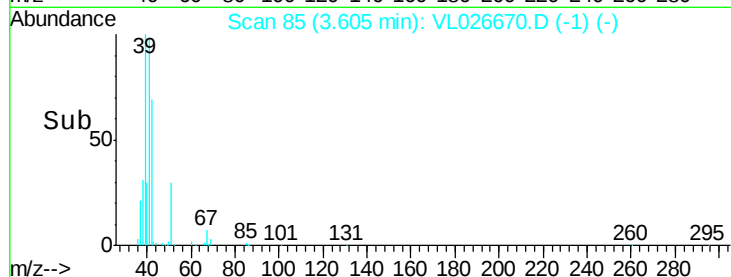
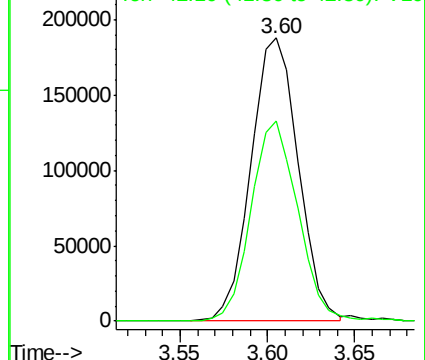
41 100

42 70.5 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: 9.23 ppbv

RT: 9.37 min Scan# 1030

Delta R.T. 0.03 min

Lab File: VL026670.D

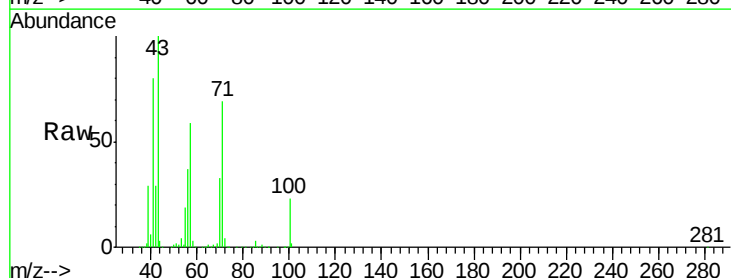
Acq: 12 Jan 2016 11:09

Tgt Ion: 43 Resp: 1328380

Ion Ratio Lower Upper

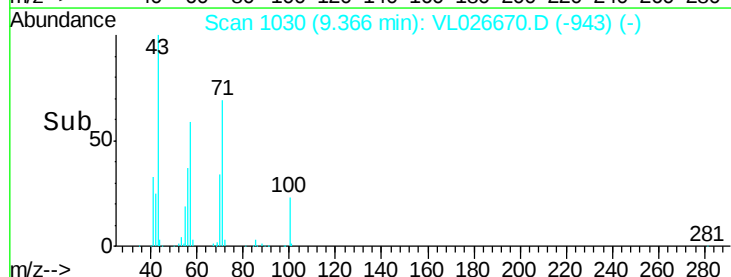
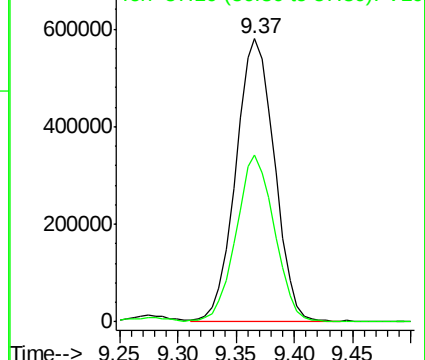
43 100

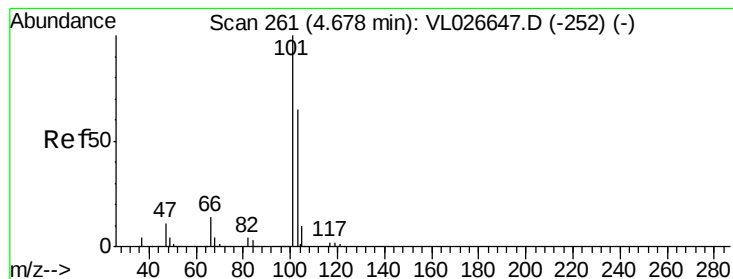
57 60.9 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 10.17 ppbv

RT: 4.70 min Scan# 265

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

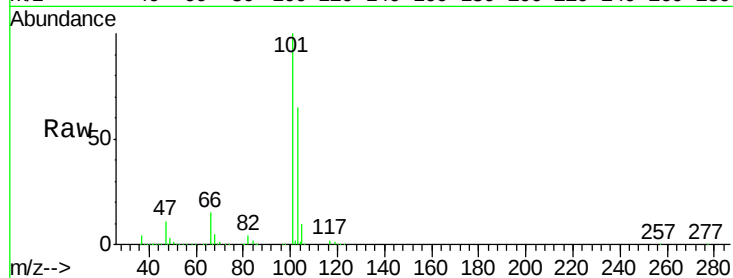
VL0112ABL01

Tgt Ion:101 Resp: 2263070

Ion Ratio Lower Upper

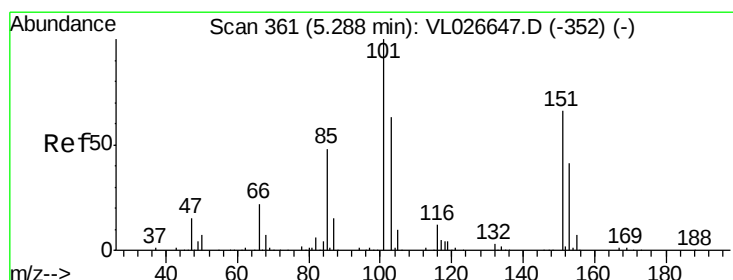
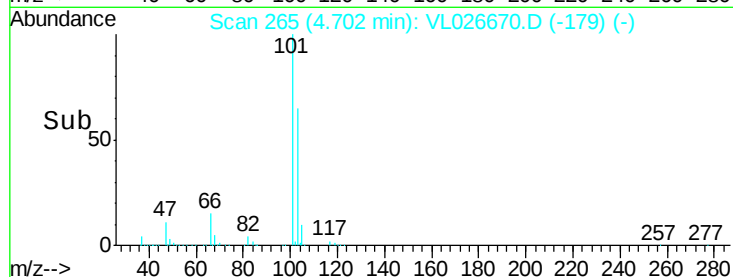
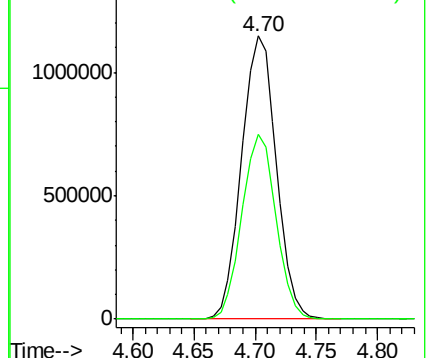
101 100

103 65.3 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: 9.94 ppbv

RT: 5.31 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL026670.D

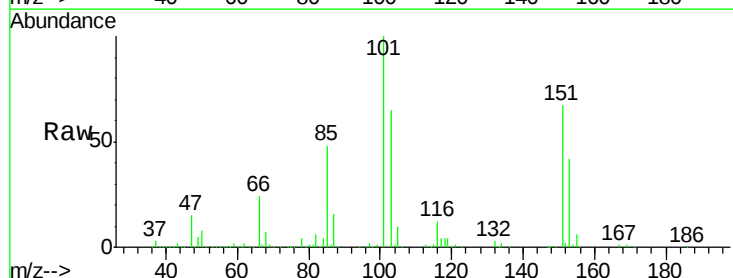
Acq: 12 Jan 2016 11:09

Tgt Ion:101 Resp: 1358649

Ion Ratio Lower Upper

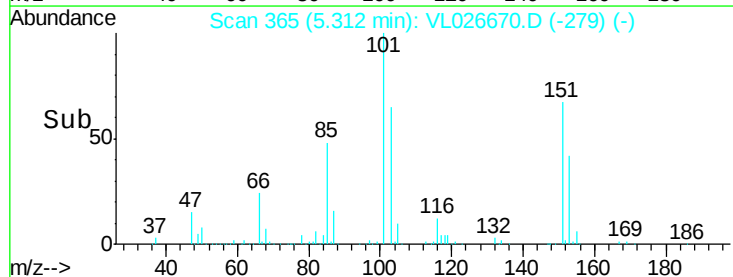
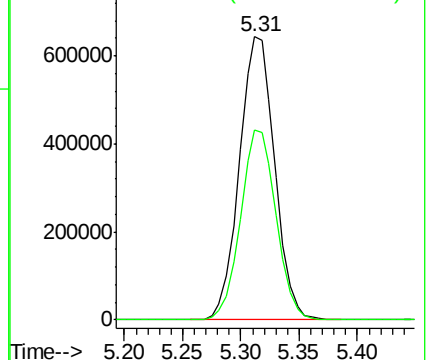
101 100

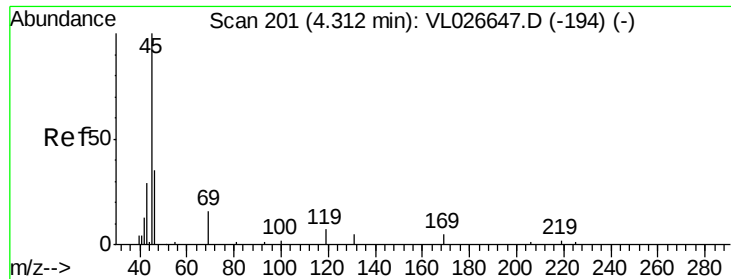
151 67.4 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 6.55 ppbv

RT: 4.34 min Scan# 205

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

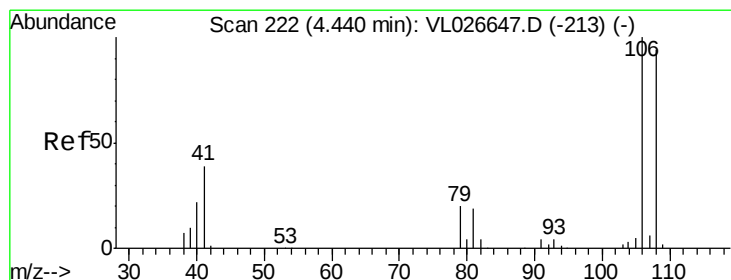
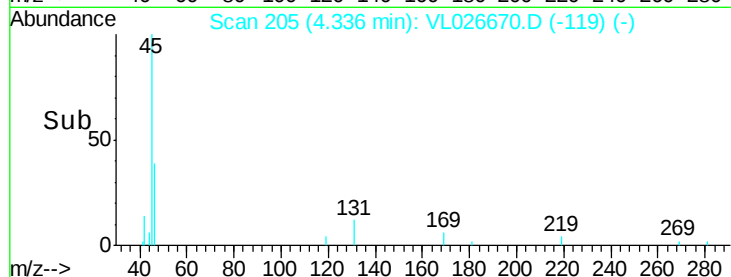
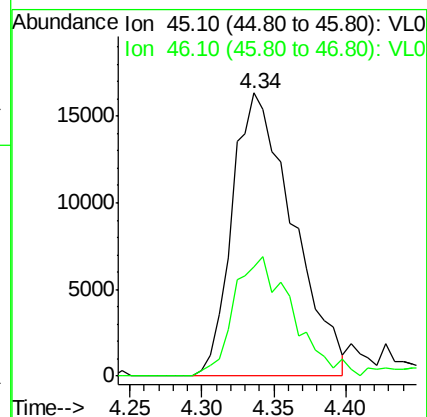
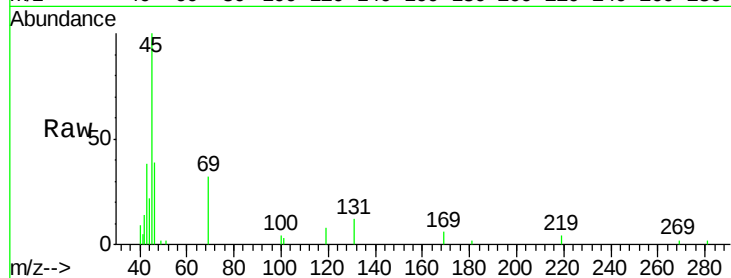
VL0112ABL01

Tgt Ion: 45 Resp: 48040

Ion Ratio Lower Upper

45 100

46 43.8 16.7 66.7



#14

Bromoethene

Concen: 10.22 ppbv

RT: 4.46 min Scan# 225

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

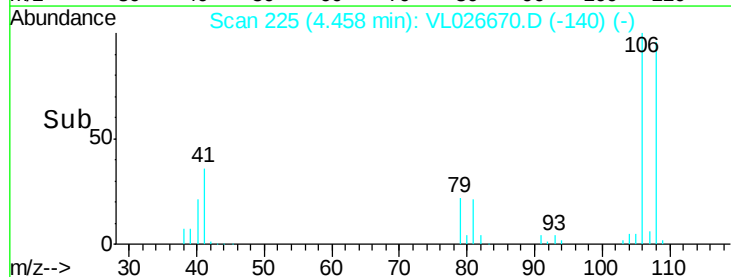
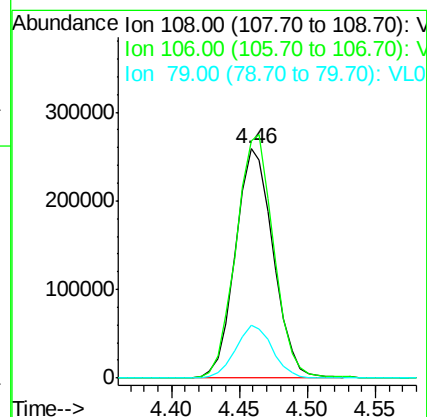
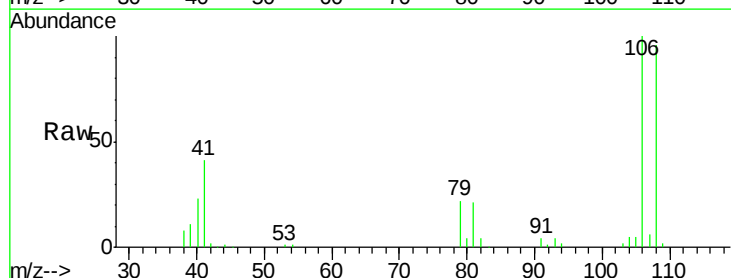
Tgt Ion: 108 Resp: 503245

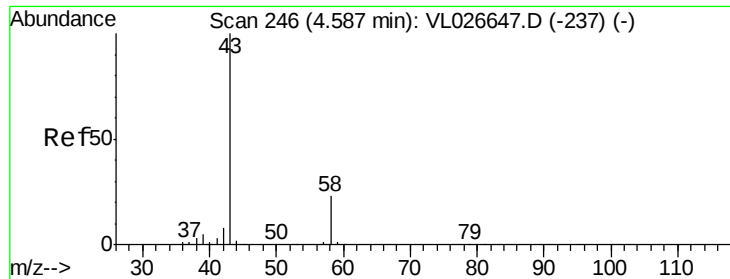
Ion Ratio Lower Upper

108 100

106 106.3 86.4 129.6

79 22.6 17.2 25.8





#15

Acetone

Concen: 8.39 ppbv

RT: 4.61 min Scan# 250

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

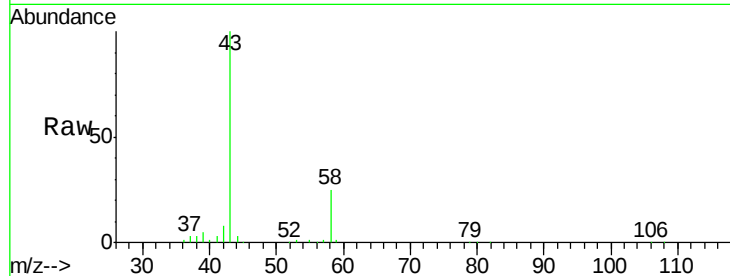
VL0112ABL01

Tgt Ion: 43 Resp: 1114128

Ion Ratio Lower Upper

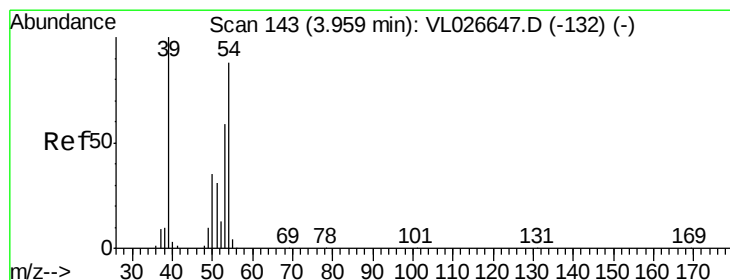
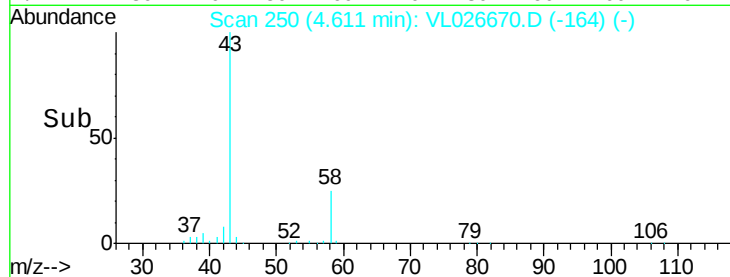
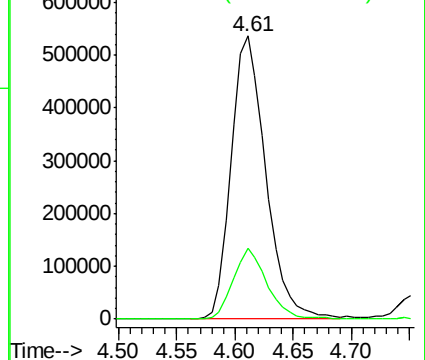
43 100

58 24.3 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: 9.73 ppbv

RT: 3.98 min Scan# 146

Delta R.T. 0.02 min

Lab File: VL026670.D

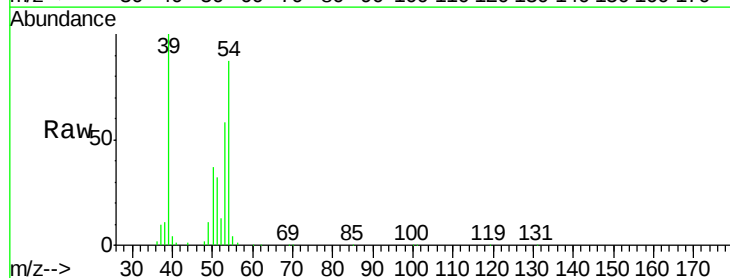
Acq: 12 Jan 2016 11:09

Tgt Ion: 39 Resp: 515481

Ion Ratio Lower Upper

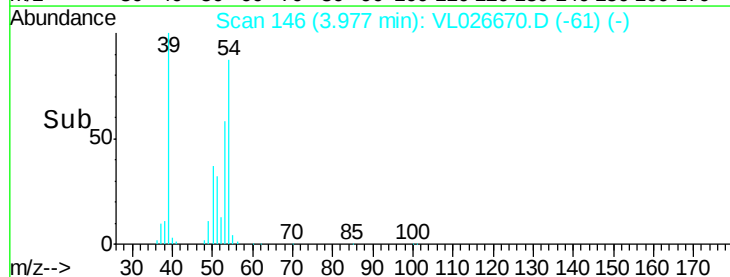
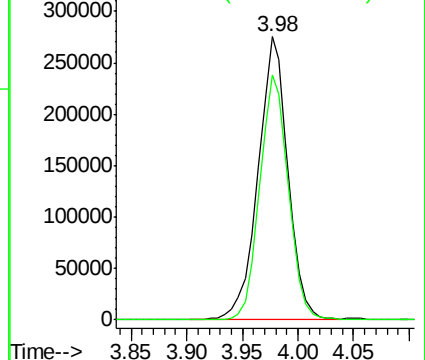
39 100

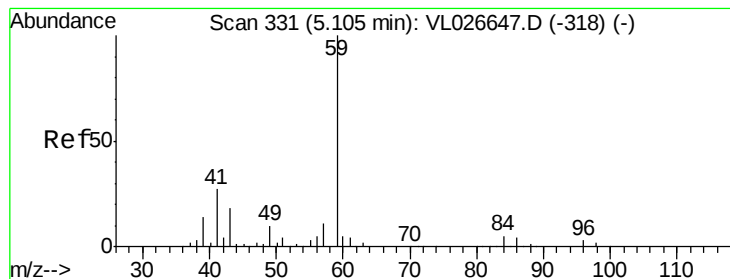
54 83.2 66.6 100.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



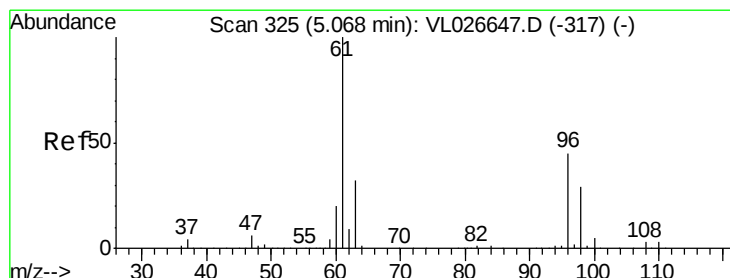
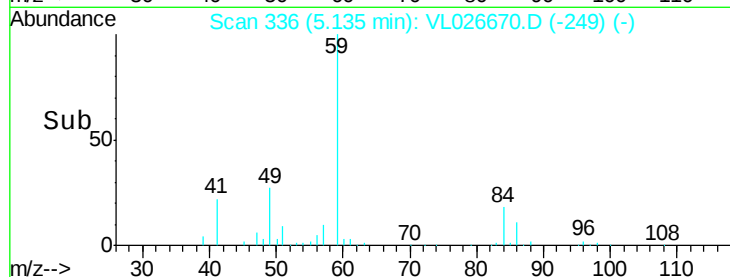
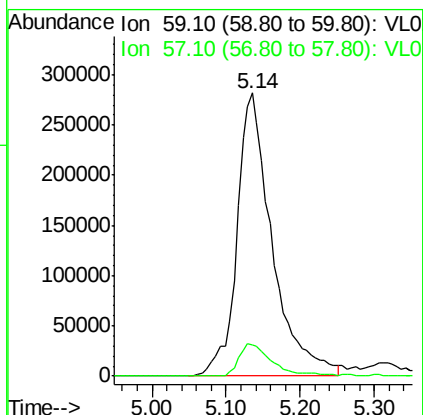
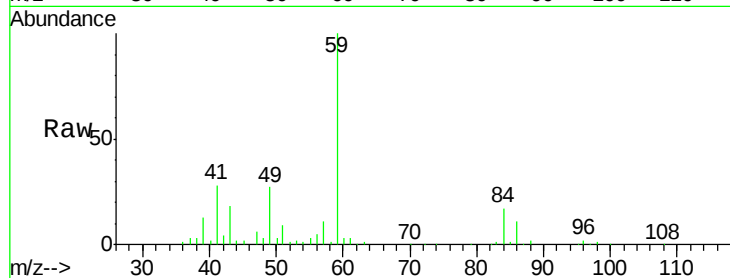


#17

tert-Butyl alcohol
 Concen: 9.33 ppbv
 RT: 5.14 min Scan# 336
 Delta R.T. 0.03 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

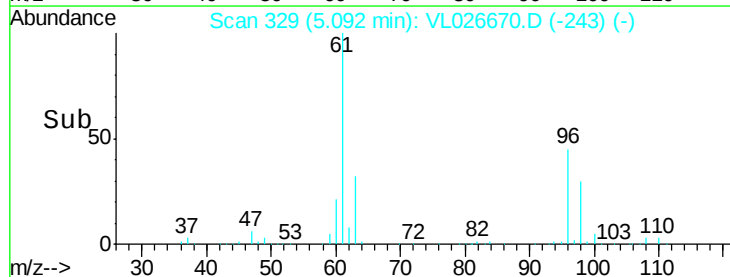
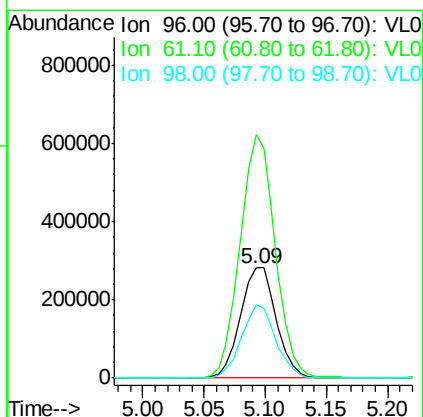
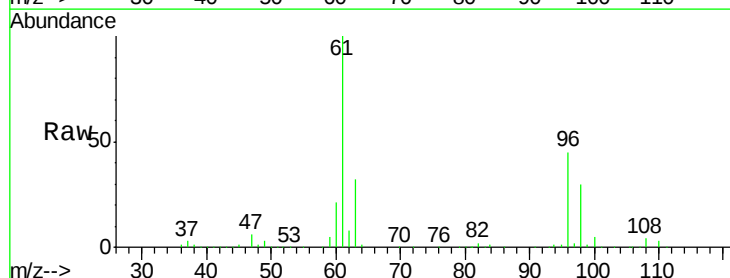
Tgt Ion: 59 Resp: 933714
 Ion Ratio Lower Upper
 59 100
 57 11.3 9.0 13.6

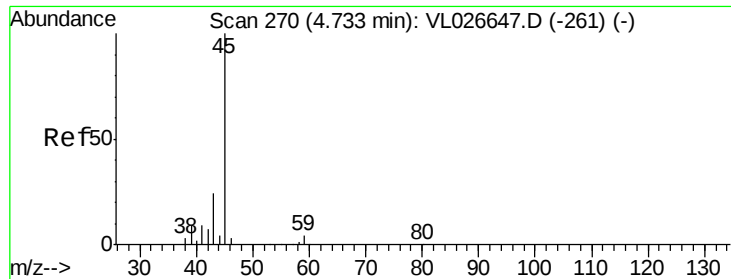


#18

1,1-Dichloroethene
 Concen: 10.08 ppbv
 RT: 5.09 min Scan# 329
 Delta R.T. 0.02 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Tgt Ion: 96 Resp: 574413
 Ion Ratio Lower Upper
 96 100
 61 221.5 176.7 265.1
 98 66.4 51.8 77.6





#19

Isopropyl Alcohol

Concen: 8.61 ppbv

RT: 4.76 min Scan# 275

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

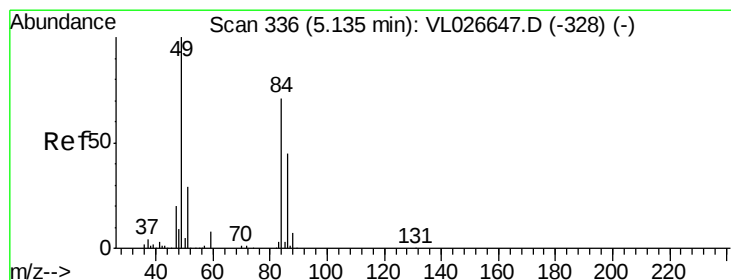
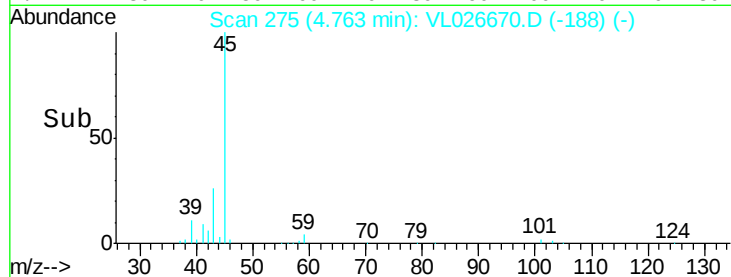
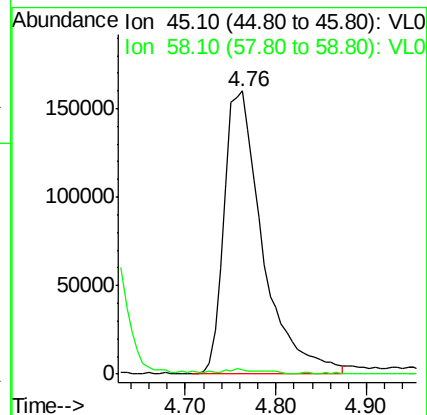
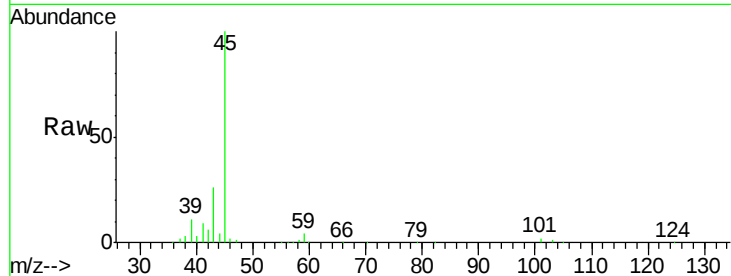
VL0112ABL01

Tgt Ion: 45 Resp: 471287

Ion Ratio Lower Upper

45 100

58 2.9 1.3 1.9#



#20

Methylene Chloride

Concen: 9.46 ppbv

RT: 5.16 min Scan# 340

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Tgt Ion: 84 Resp: 515316

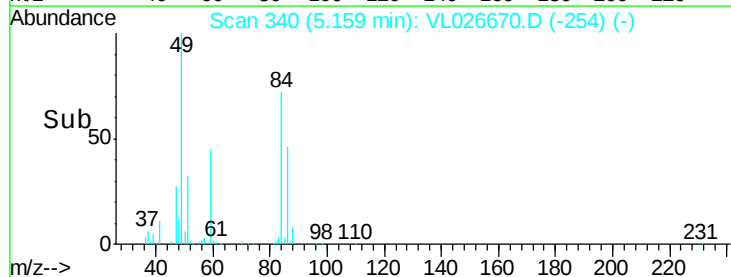
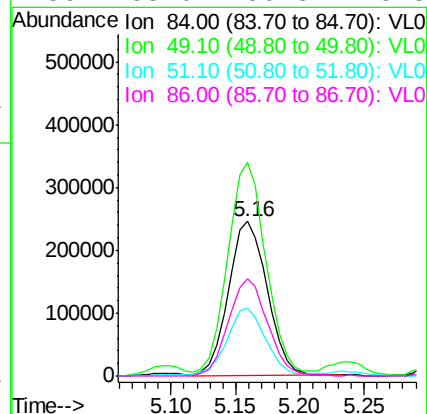
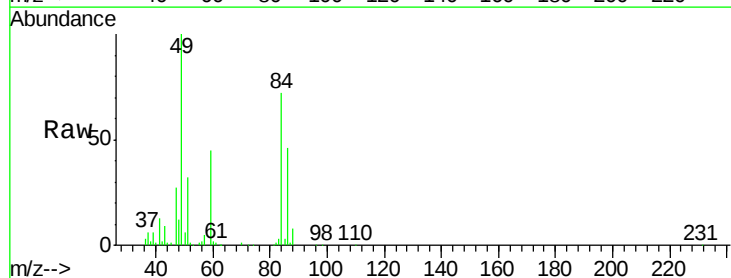
Ion Ratio Lower Upper

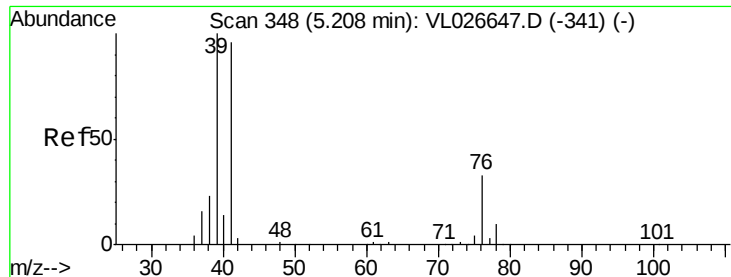
84 100

49 136.3 112.3 168.5

51 43.2 32.5 48.7

86 63.0 50.3 75.5





#21

Allyl Chloride

Concen: 9.59 ppbv

RT: 5.23 min Scan# 352

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

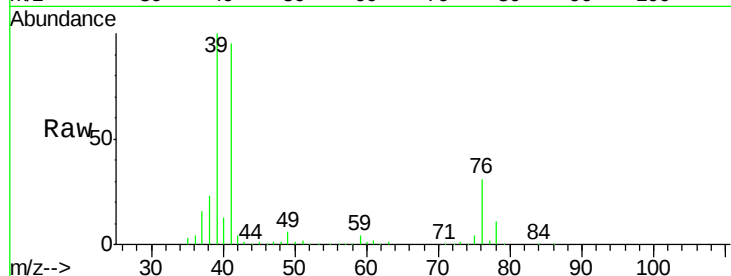
Tgt Ion: 41 Resp: 780776

Ion Ratio Lower Upper

41 100

76 35.2 27.5 41.3

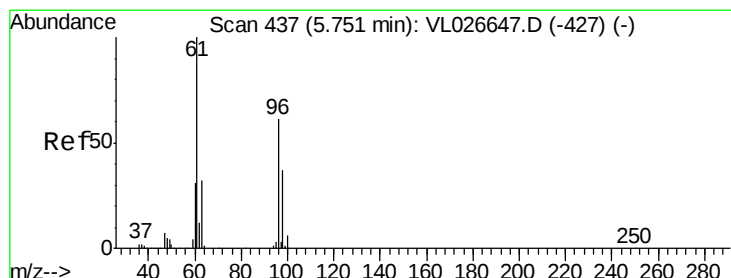
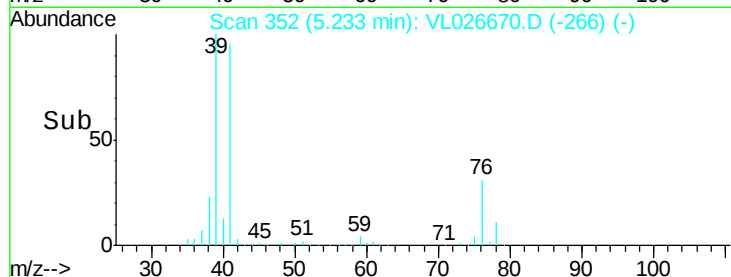
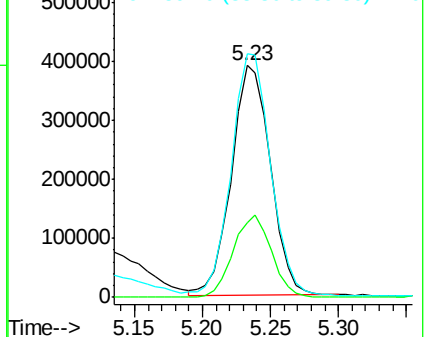
39 107.8 83.0 124.6



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: 9.85 ppbv

RT: 5.78 min Scan# 441

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

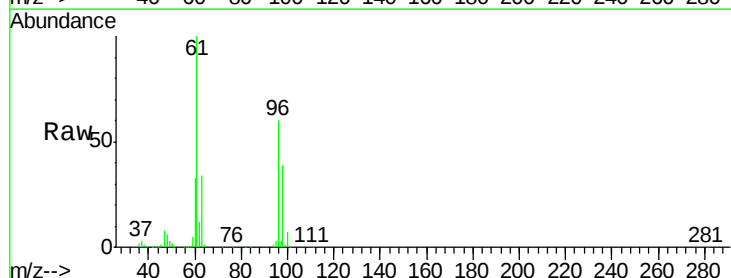
Tgt Ion: 96 Resp: 640905

Ion Ratio Lower Upper

96 100

61 167.2 131.0 196.6

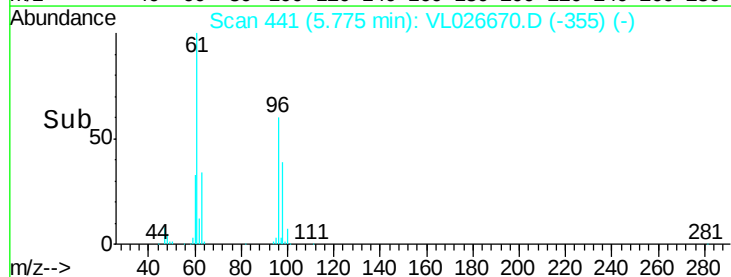
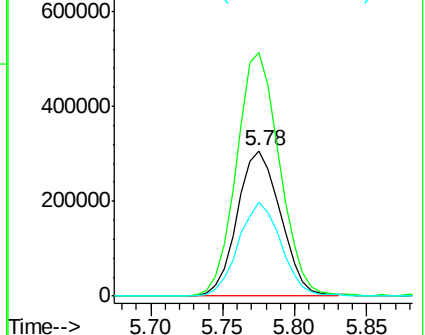
98 64.7 48.1 72.1

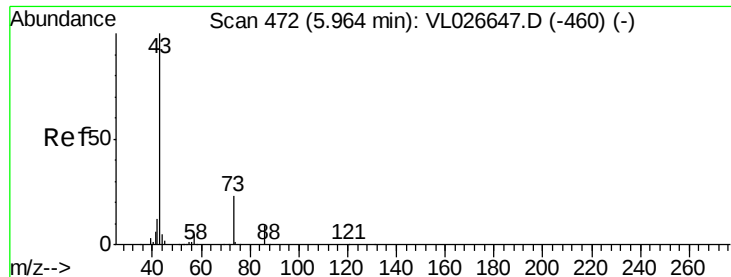


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.11 ppbv

RT: 5.99 min Scan# 477

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

Tgt Ion: 43 Resp: 1856718

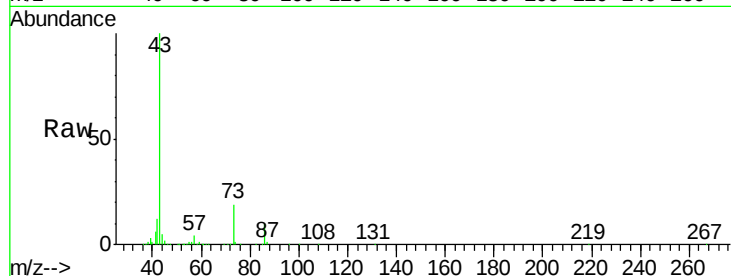
Ion Ratio Lower Upper

43 100

86 10.2 7.4 11.0

42 11.8 9.2 13.8

44 5.1 3.8 5.8

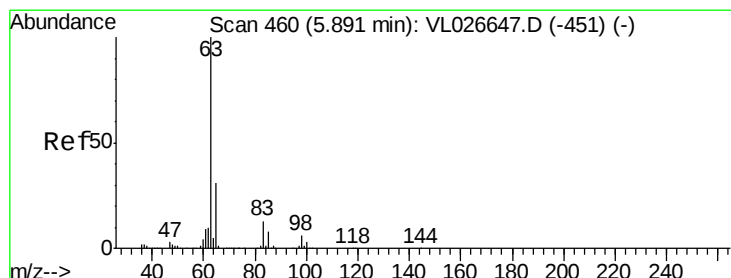
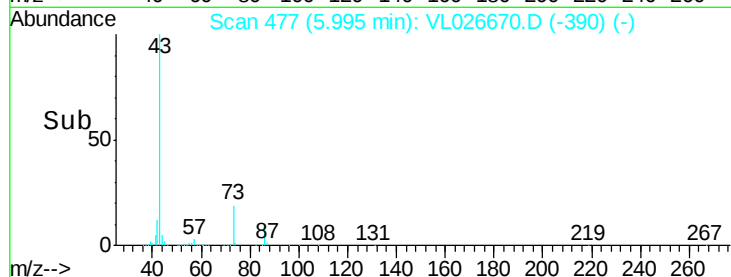
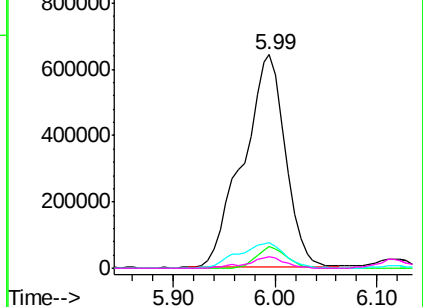


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.56 ppbv

RT: 5.92 min Scan# 465

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

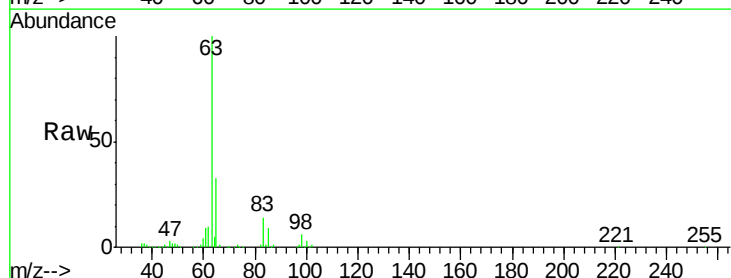
Tgt Ion: 63 Resp: 1404924

Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.7

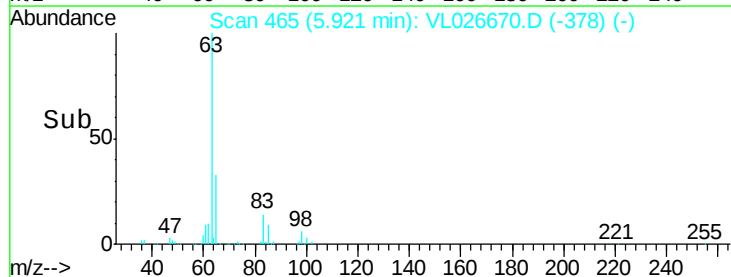
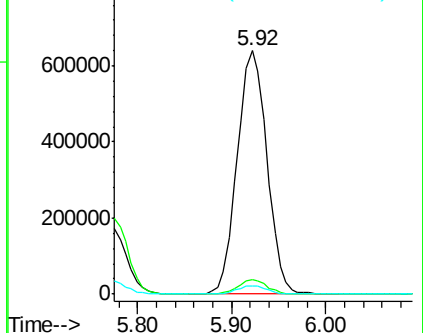
100 3.3 1.6 4.8

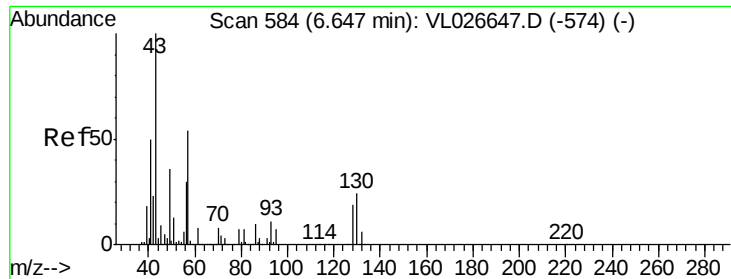


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



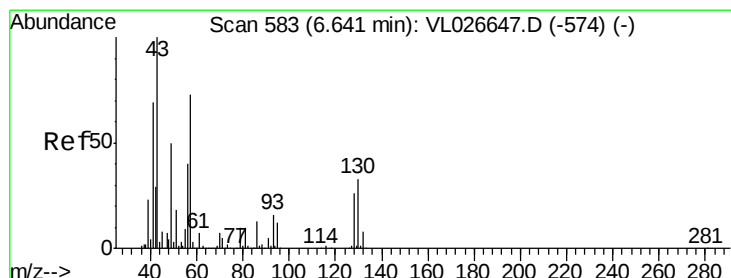
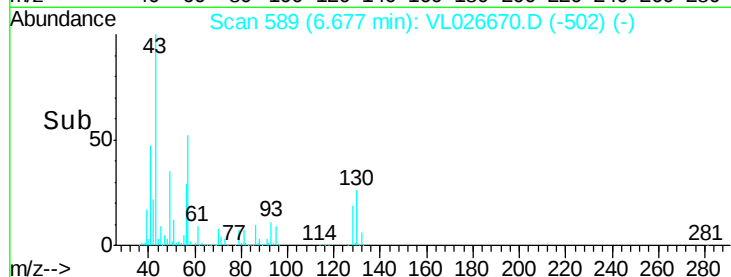
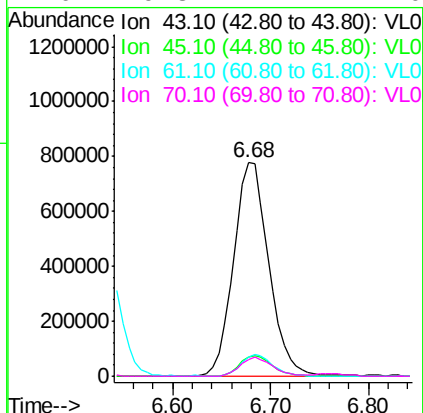
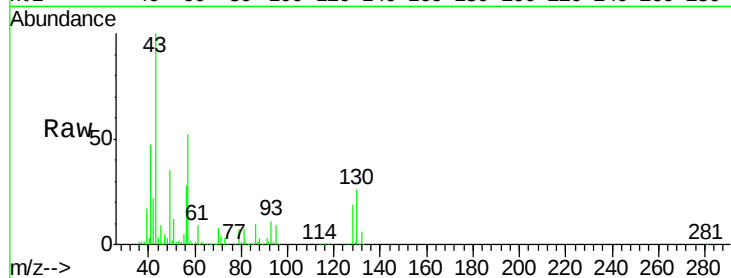


#25
Ethyl Acetate
Concen: 9.44 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.03 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

Tgt Ion: 43 Resp: 1933767

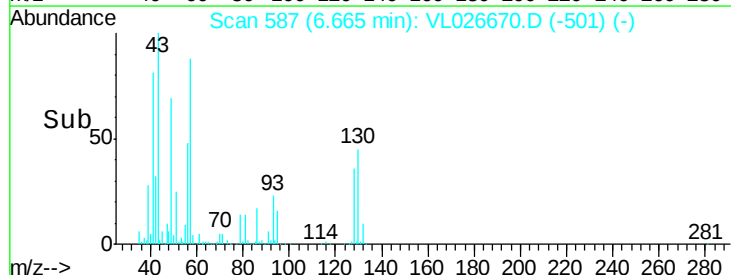
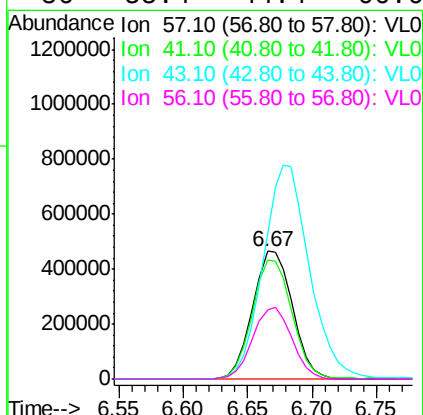
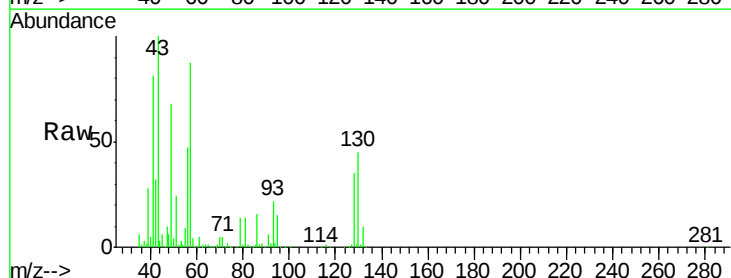
Ion	Ratio	Lower	Upper
43	100		
45	9.2	7.5	11.3
61	9.1	7.3	10.9
70	9.3	7.4	11.0

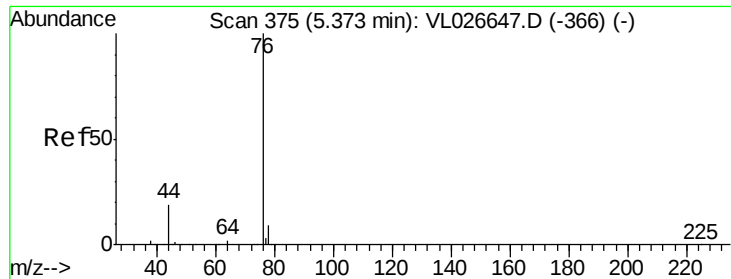


#26
Hexane
Concen: 9.42 ppbv
RT: 6.67 min Scan# 587
Delta R.T. 0.02 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

Tgt Ion: 57 Resp: 998121

Ion	Ratio	Lower	Upper
57	100		
41	94.2	74.8	112.2
43	195.1	161.5	242.3
56	55.4	44.4	66.6





#27

Carbon Disulfide

Concen: 10.38 ppbv

RT: 5.40 min Scan# 379

Delta R.T. 0.02 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

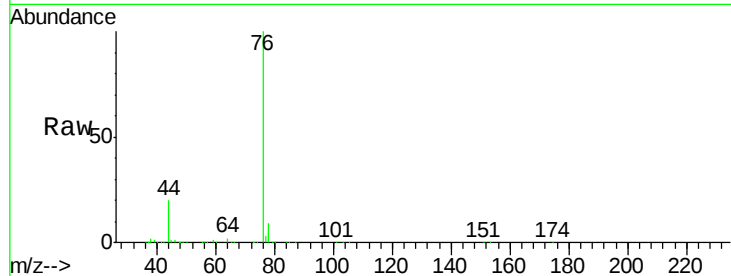
Tgt Ion: 76 Resp: 1635062

Ion Ratio Lower Upper

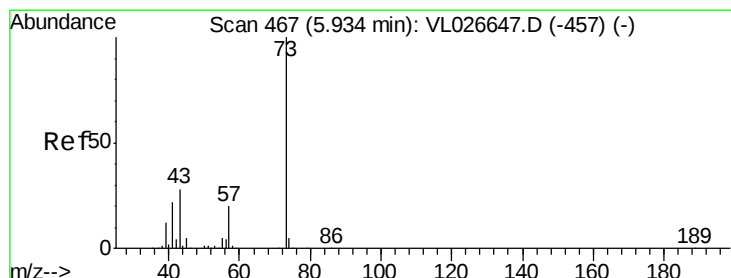
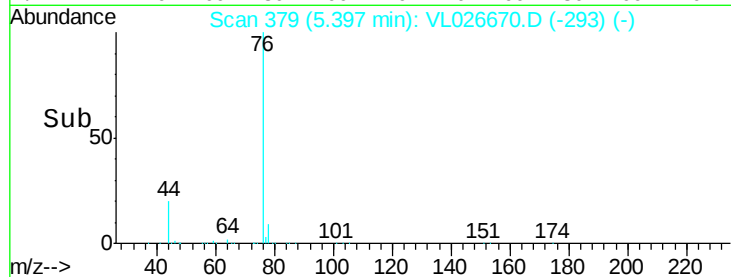
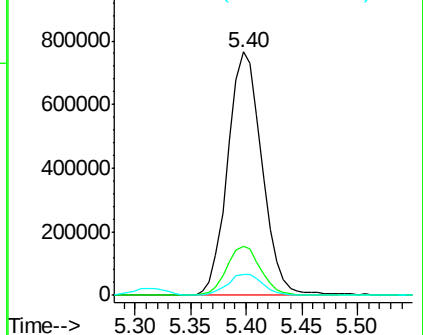
76 100

44 20.5 15.9 23.9

78 9.3 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.91 ppbv

RT: 5.96 min Scan# 472

Delta R.T. 0.03 min

Lab File: VL026670.D

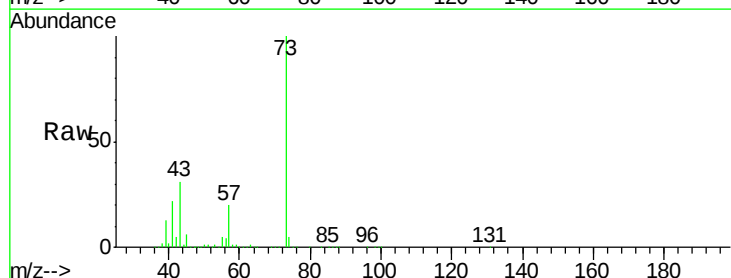
Acq: 12 Jan 2016 11:09

Tgt Ion: 73 Resp: 2086985

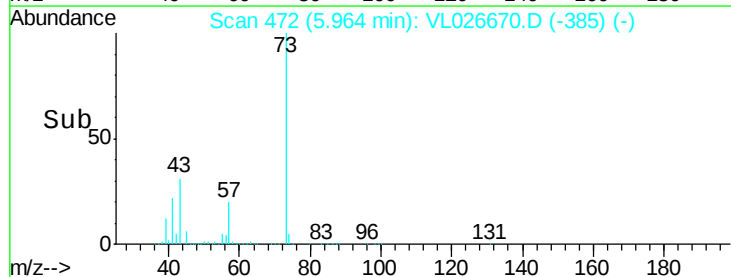
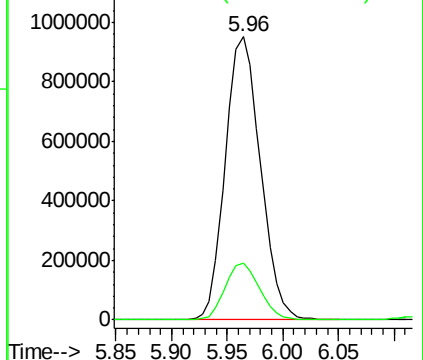
Ion Ratio Lower Upper

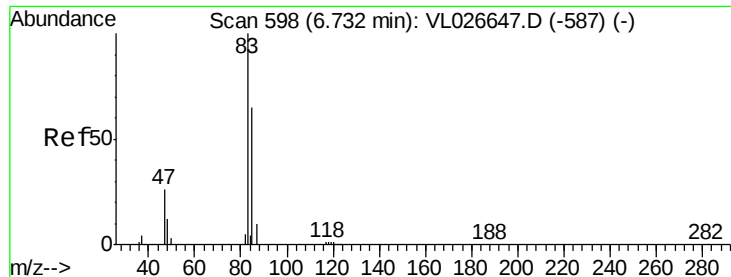
73 100

57 19.8 16.2 24.4



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

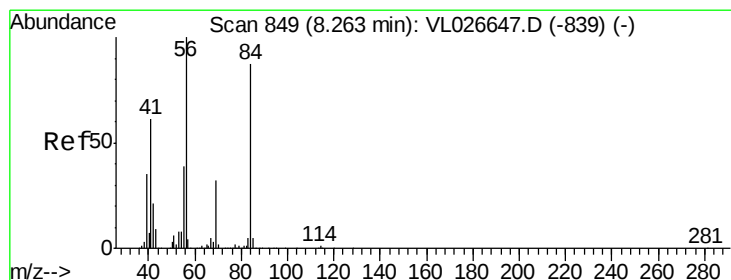
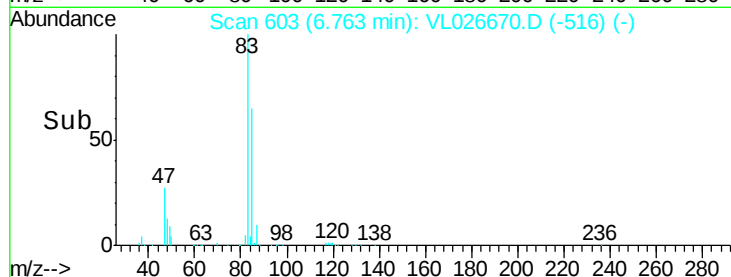
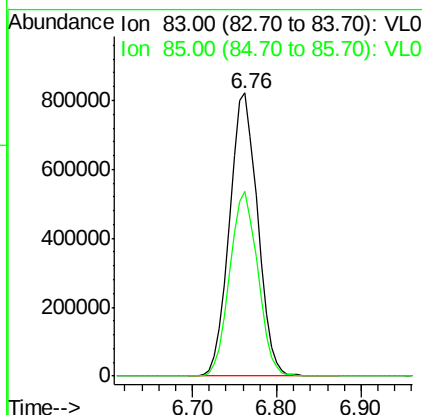
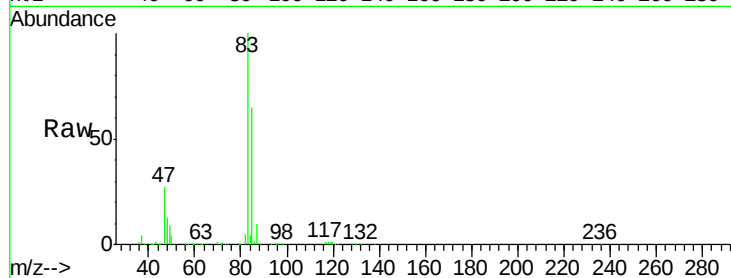




#29
Chloroform
Concen: 9.69 ppbv
RT: 6.76 min Scan# 603
Delta R.T. 0.03 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

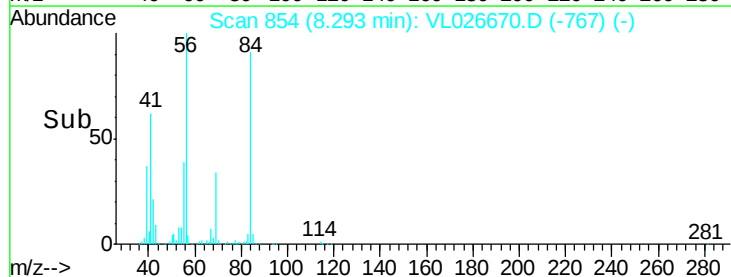
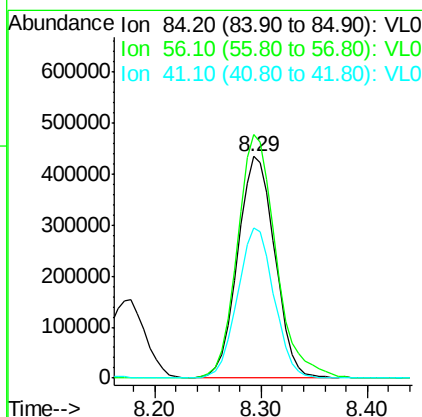
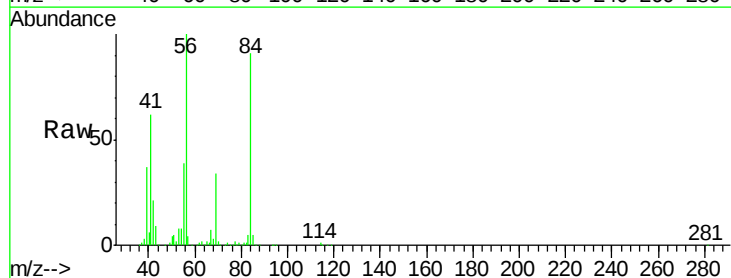
Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

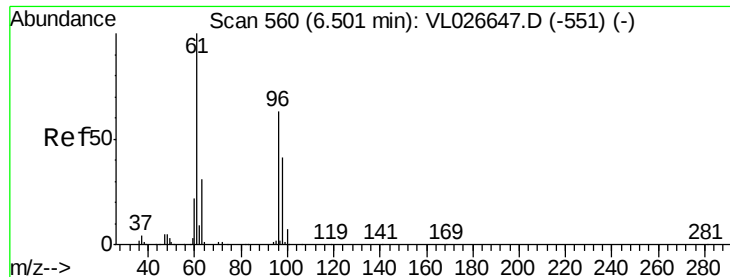
Tgt Ion: 83 Resp: 1863762
Ion Ratio Lower Upper
83 100
85 65.3 51.6 77.4



#30
Cyclohexane
Concen: 10.22 ppbv
RT: 8.29 min Scan# 854
Delta R.T. 0.03 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

Tgt Ion: 84 Resp: 1068857
Ion Ratio Lower Upper
84 100
56 114.1 95.9 143.9
41 66.6 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 9.97 ppbv

RT: 6.53 min Scan# 565

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

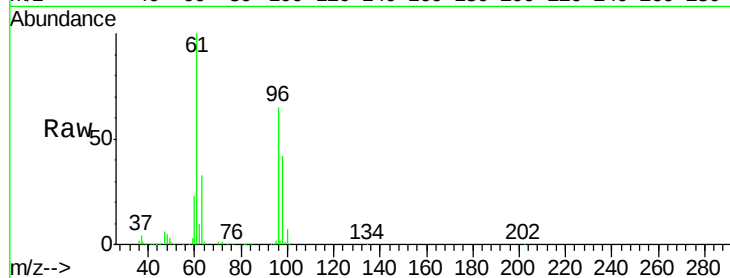
Tgt Ion: 61 Resp: 1064780

Ion Ratio Lower Upper

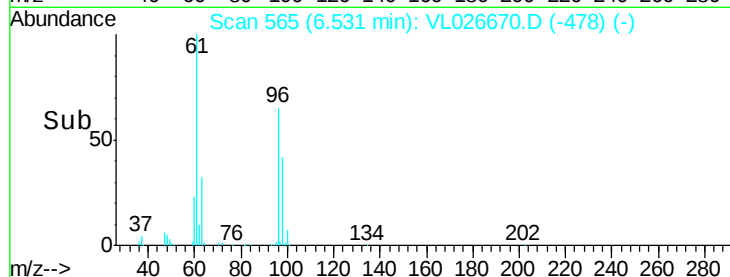
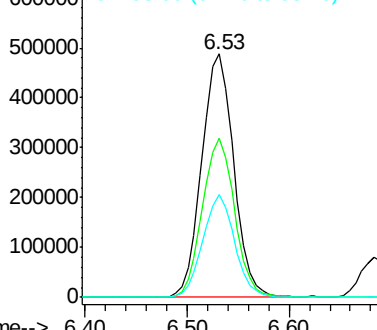
61 100

96 65.4 50.2 75.4

98 42.2 32.4 48.6



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



#32

1,1,1-Trichloroethane

Concen: 9.45 ppbv

RT: 7.61 min Scan# 742

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

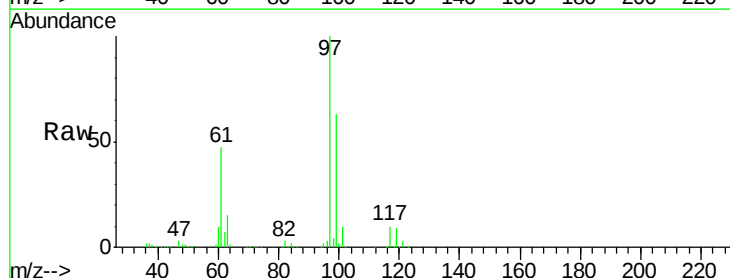
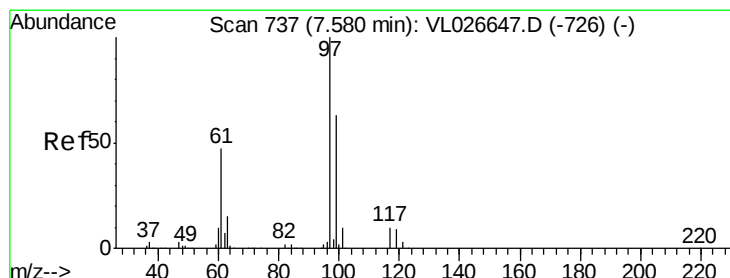
Tgt Ion: 97 Resp: 2051766

Ion Ratio Lower Upper

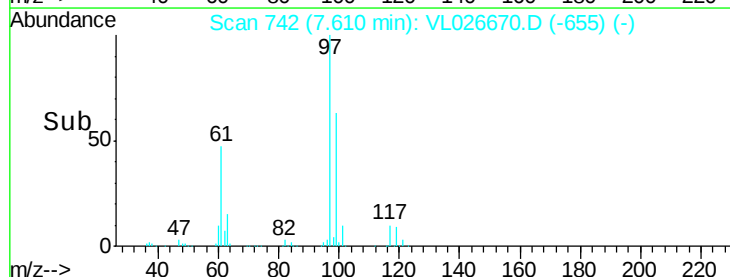
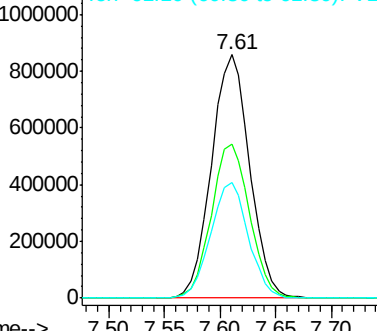
97 100

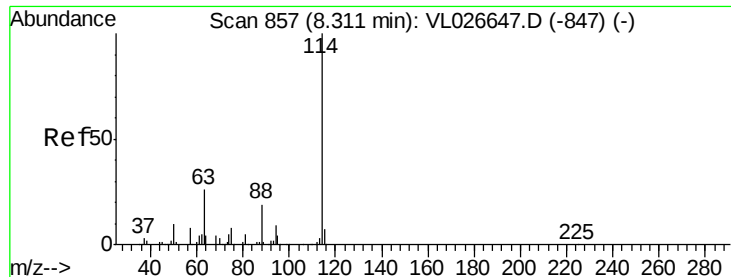
99 63.4 50.8 76.2

61 47.0 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

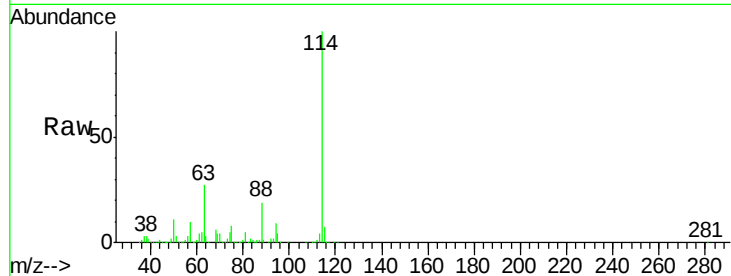




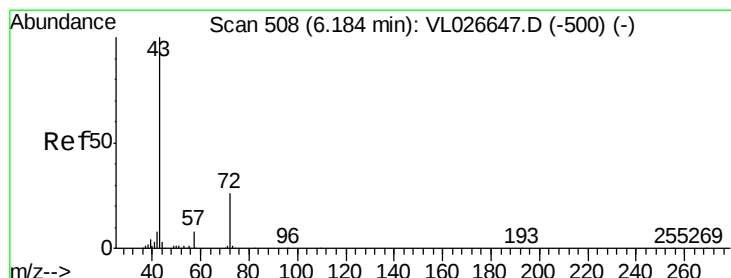
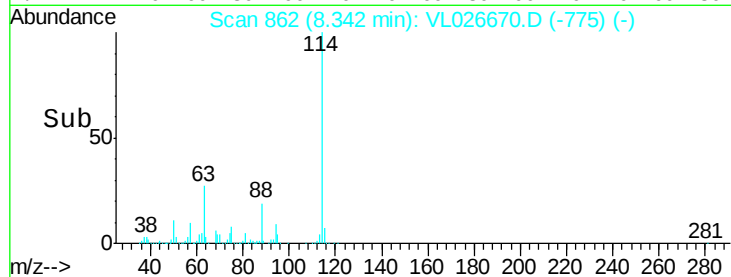
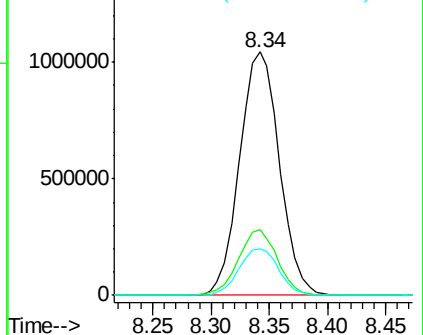
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 862
 Delta R.T. 0.03 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

Tgt Ion:114 Resp: 2494563
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.7 32.5
 88 19.2 15.2 22.8

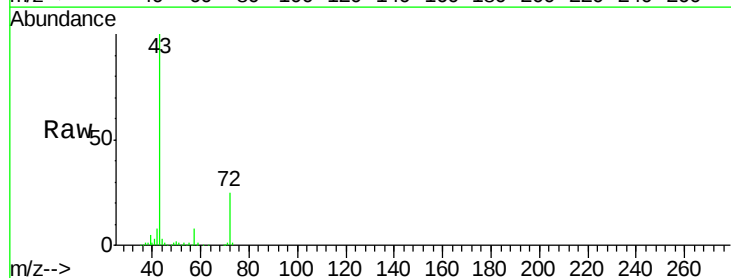


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

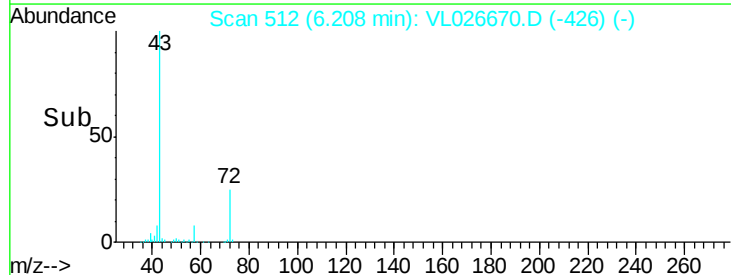
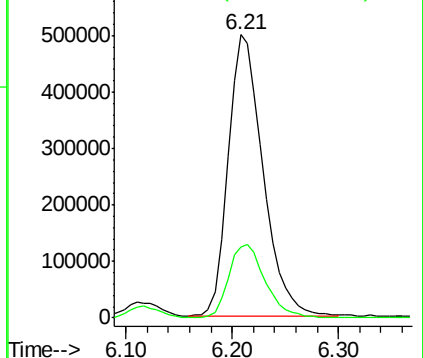


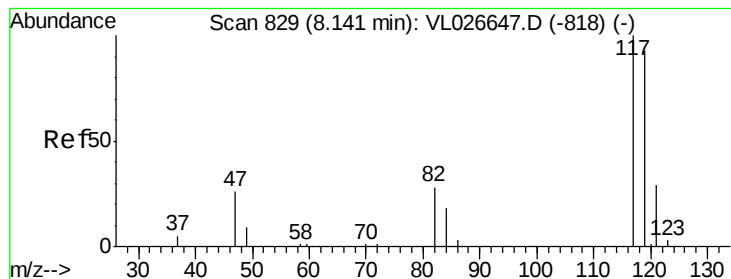
#34
 2-Butanone
 Concen: 8.56 ppbv
 RT: 6.21 min Scan# 512
 Delta R.T. 0.02 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Tgt Ion: 43 Resp: 1138813
 Ion Ratio Lower Upper
 43 100
 72 27.6 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.35 ppbv

RT: 8.17 min Scan# 834

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

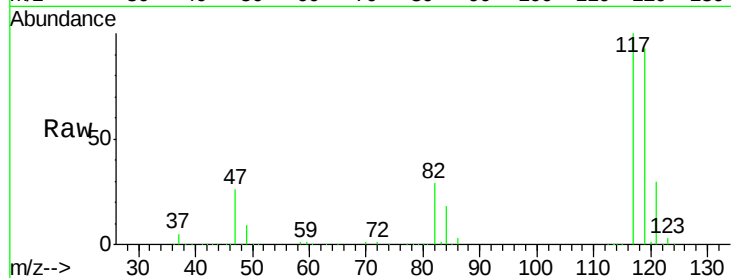
Tgt Ion:117 Resp: 2051941

Ion Ratio Lower Upper

117 100

119 92.9 74.7 112.1

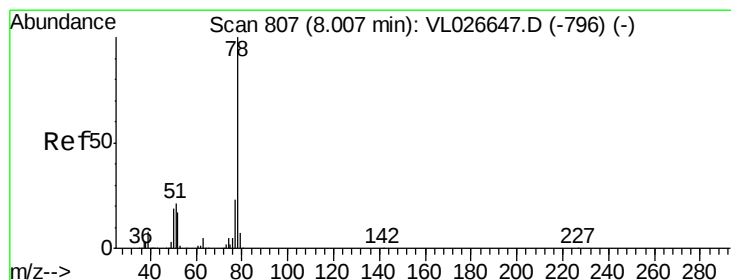
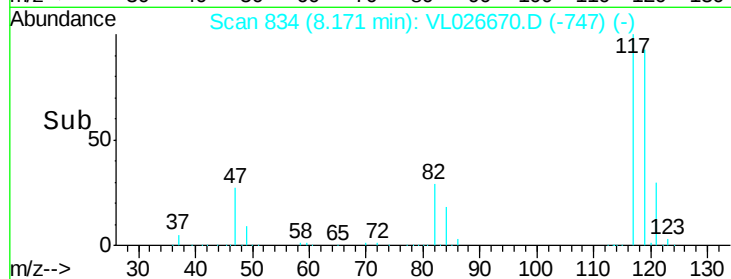
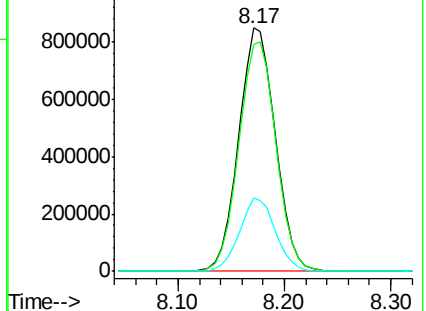
121 30.2 23.1 34.7



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



#36

Benzene

Concen: 9.26 ppbv

RT: 8.04 min Scan# 812

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

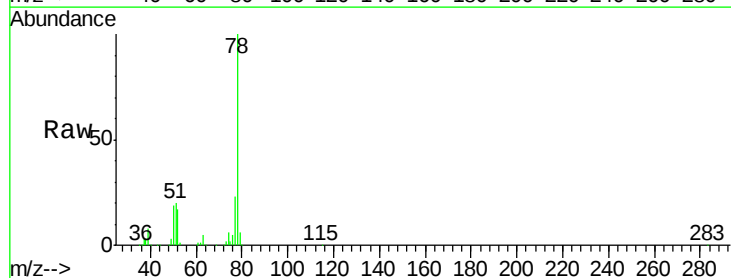
Tgt Ion: 78 Resp: 2378415

Ion Ratio Lower Upper

78 100

77 22.7 18.5 27.7

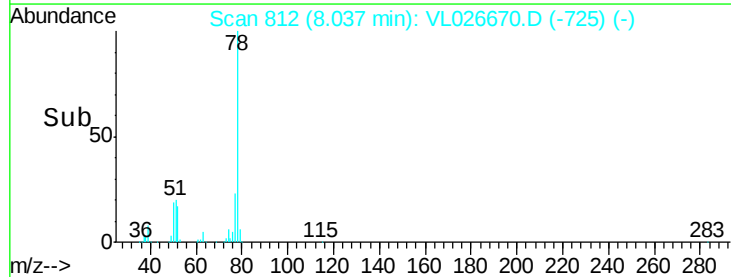
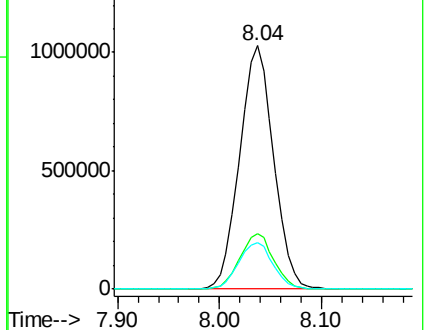
50 19.0 15.4 23.2

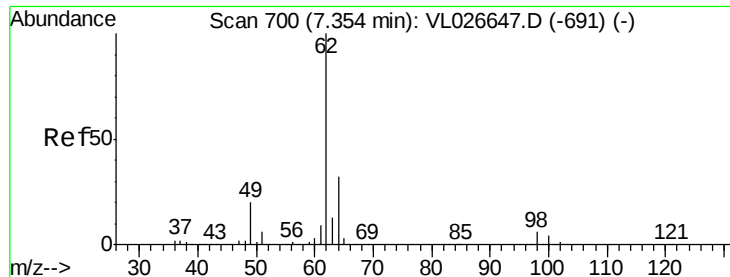


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

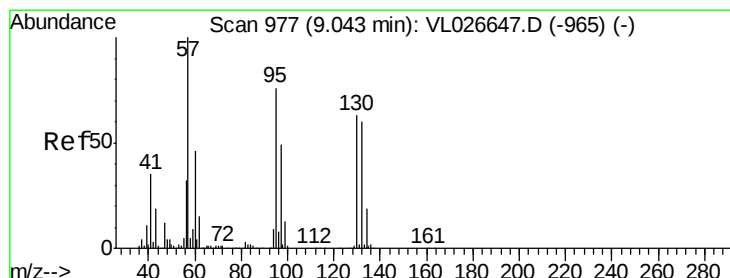
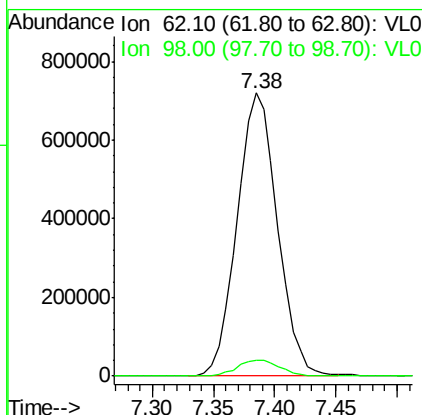
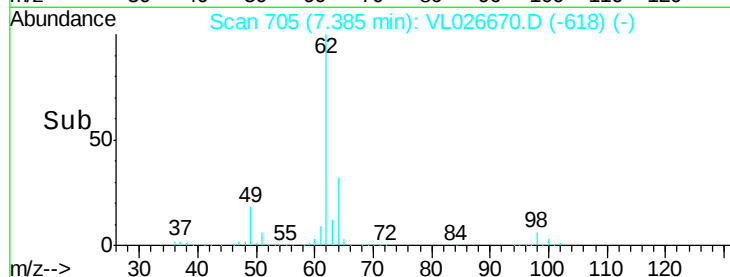
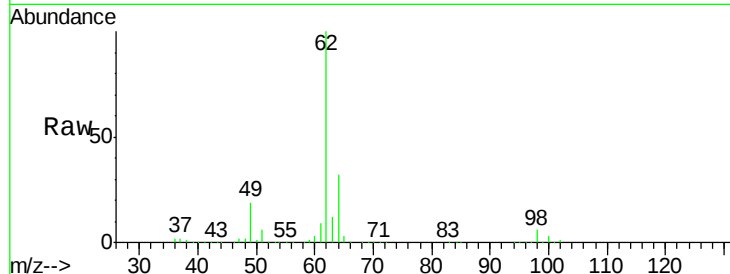




#37
 1,2-Dichloroethane
 Concen: 9.39 ppbv
 RT: 7.38 min Scan# 705
 Delta R.T. 0.03 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

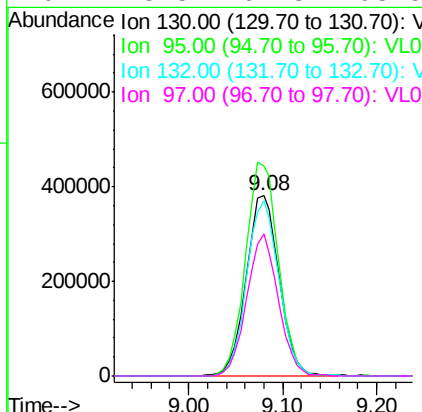
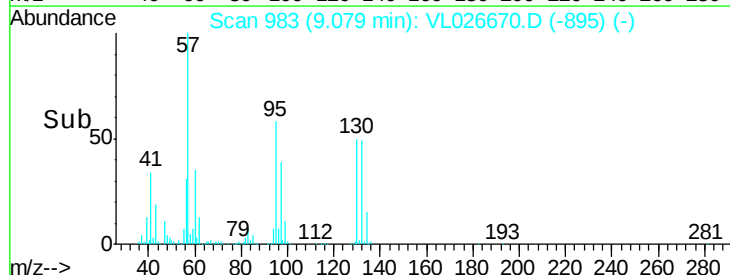
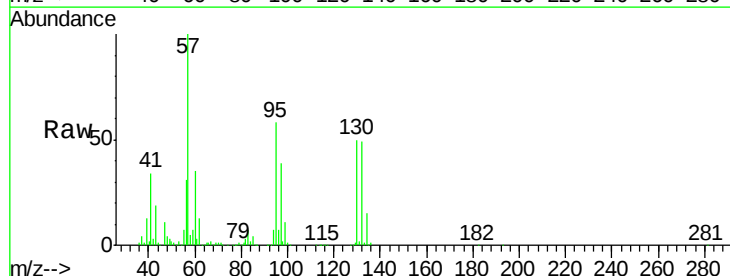
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

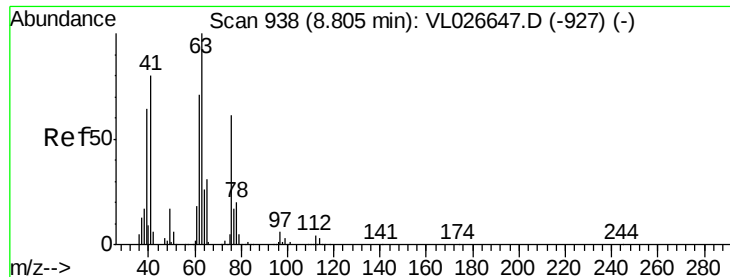
Tgt Ion: 62 Resp: 1649161
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.8 7.2



#38
 Trichloroethene
 Concen: 8.20 ppbv
 RT: 9.08 min Scan# 983
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Tgt Ion: 130 Resp: 939509
 Ion Ratio Lower Upper
 130 100
 95 116.4 96.6 145.0
 132 97.4 76.2 114.4
 97 78.5 62.3 93.5





#39

1,2-Dichloropropane

Concen: 8.97 ppbv

RT: 8.84 min Scan# 943

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

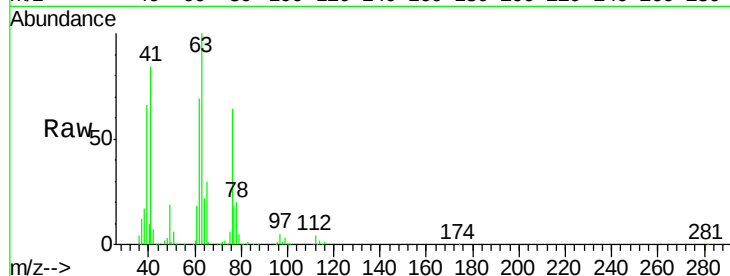
Tgt Ion: 63 Resp: 795966

Ion Ratio Lower Upper

63 100

41 84.1 64.1 96.1

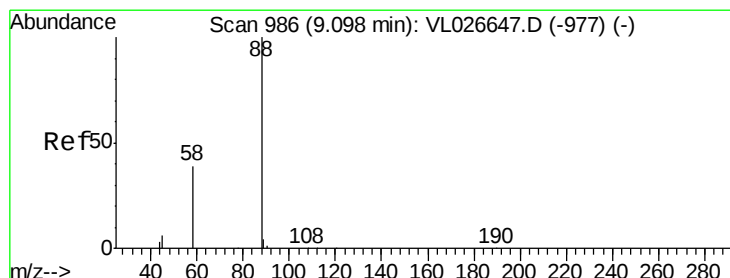
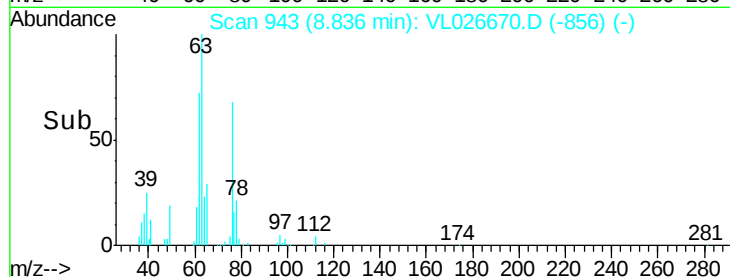
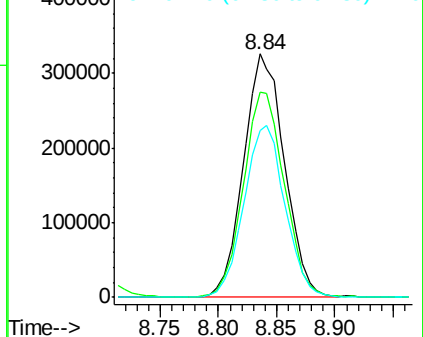
62 68.7 56.6 84.8



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: 8.10 ppbv

RT: 9.13 min Scan# 992

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Tgt Ion: 88 Resp: 165221

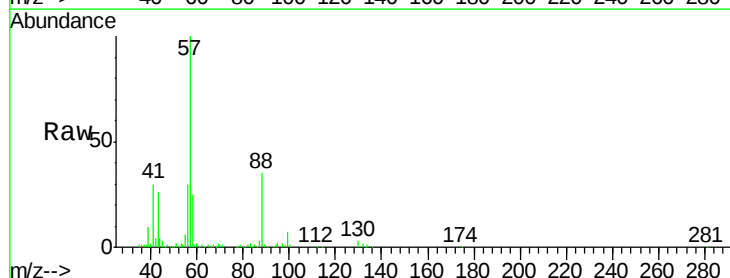
Ion Ratio Lower Upper

88 100

58 173.9 109.4 164.2#

43 430.0 238.2 357.2#

57 2220.4 1148.3 1722.5#

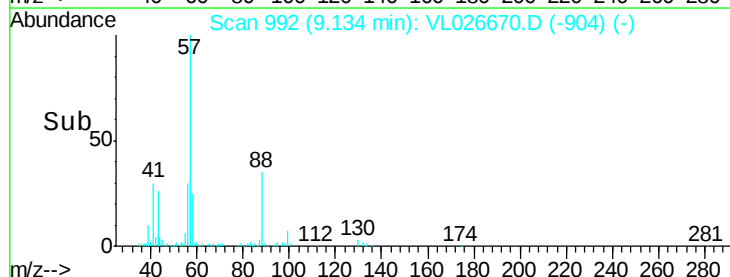
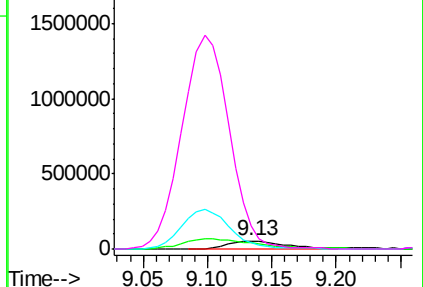


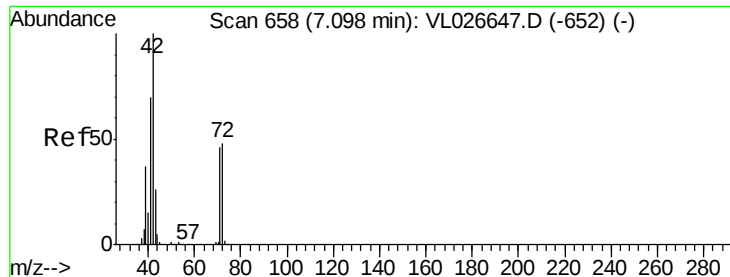
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 9.23 ppbv

RT: 7.13 min Scan# 664

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

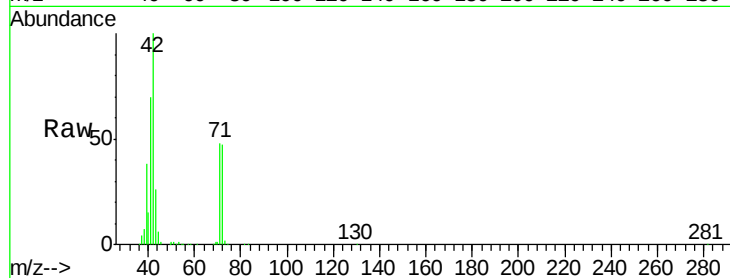
Tgt Ion: 42 Resp: 607963

Ion Ratio Lower Upper

42 100

72 51.6 40.6 60.8

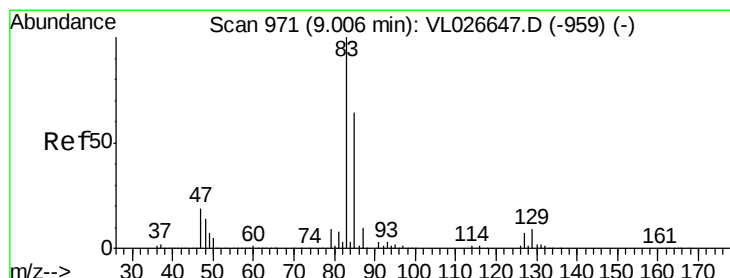
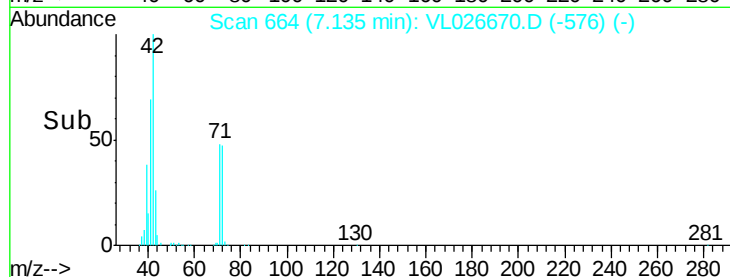
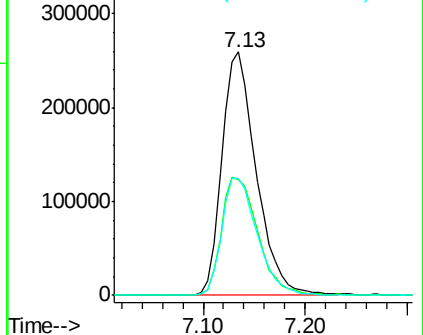
71 49.8 38.4 57.6



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: 9.59 ppbv

RT: 9.04 min Scan# 976

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

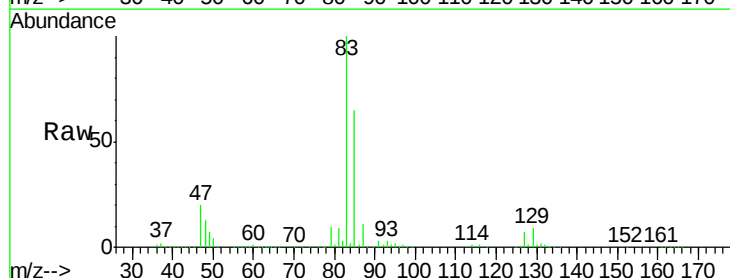
Tgt Ion: 83 Resp: 2174656

Ion Ratio Lower Upper

83 100

85 64.8 50.9 76.3

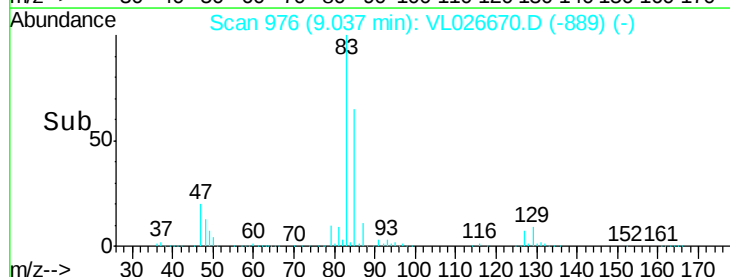
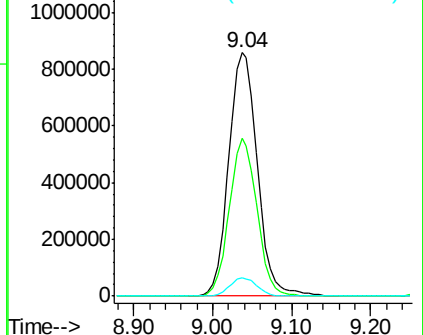
127 7.5 5.5 8.3

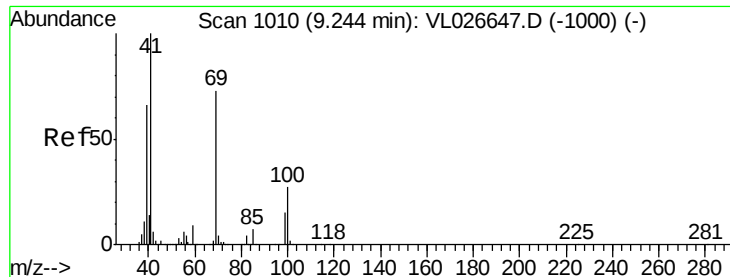


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

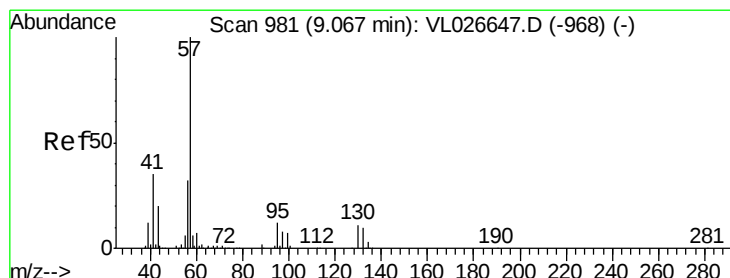
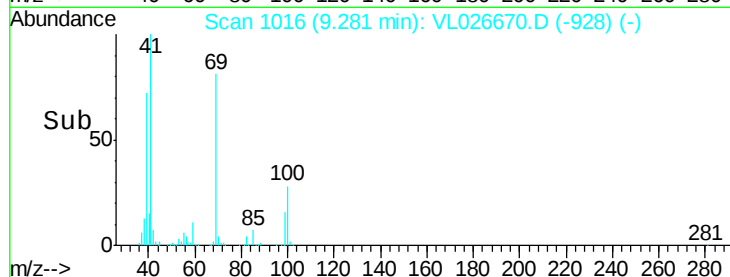
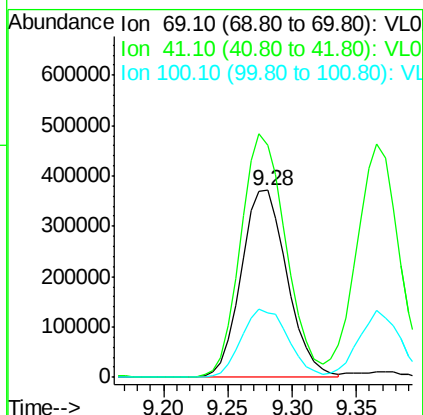
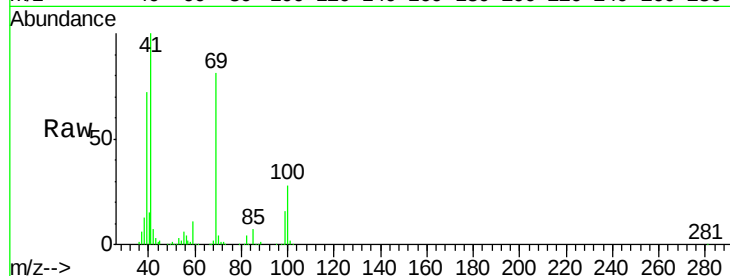




#43
Methyl Methacrylate
Concen: 9.79 ppbv
RT: 9.28 min Scan# 1016
Delta R.T. 0.04 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

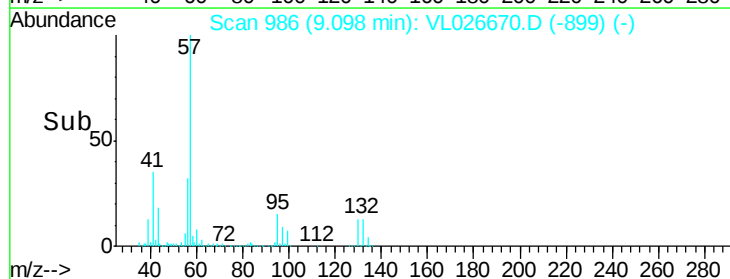
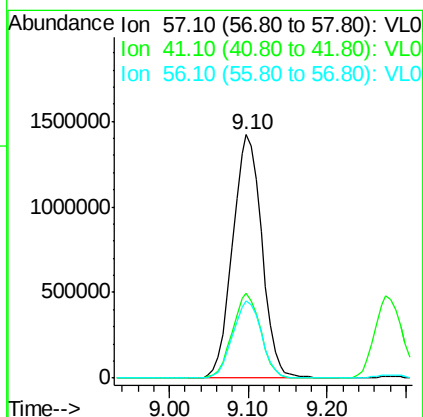
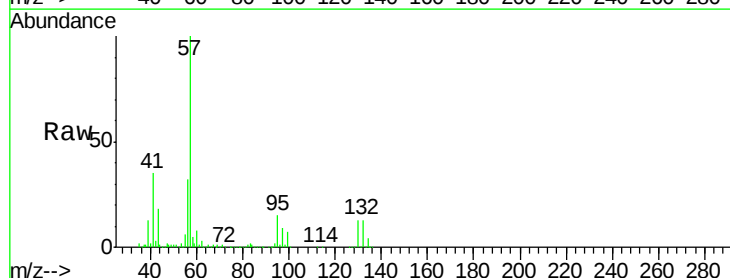
Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

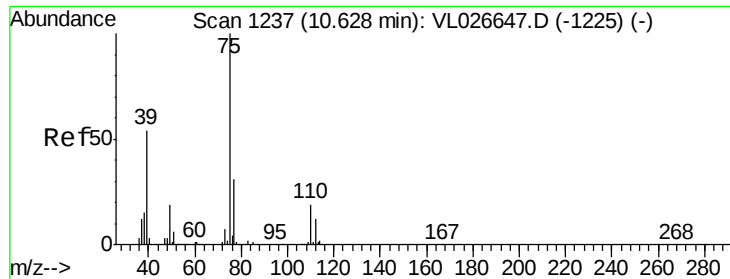
Tgt Ion: 69 Resp: 917831
Ion Ratio Lower Upper
69 100
41 128.0 106.1 159.1
100 37.2 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 8.84 ppbv
RT: 9.10 min Scan# 986
Delta R.T. 0.03 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

Tgt Ion: 57 Resp: 3665362
Ion Ratio Lower Upper
57 100
41 33.5 26.9 40.3
56 31.2 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 10.47 ppbv

RT: 10.66 min Scan# 1243

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

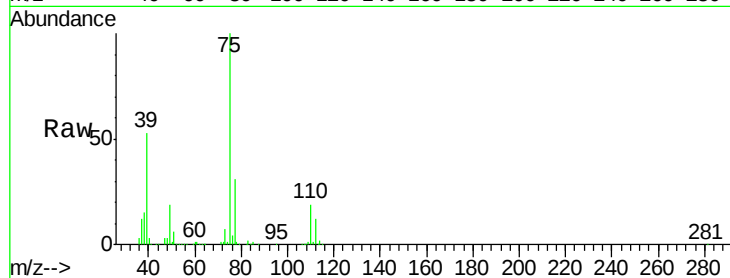
VL0112ABL01

Tgt Ion: 75 Resp: 1588778

Ion Ratio Lower Upper

75 100

77 31.4 24.6 37.0



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

10.66

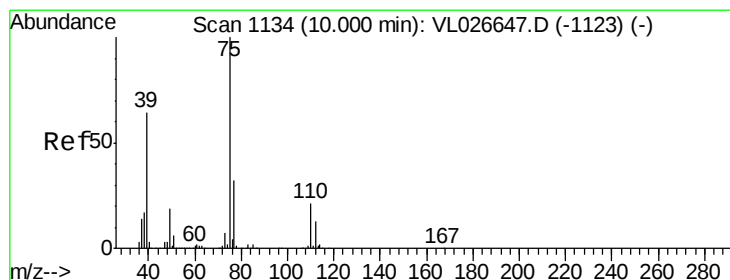
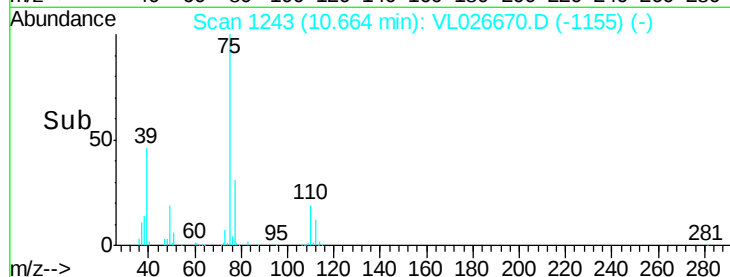
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.07 ppbv

RT: 10.04 min Scan# 1140

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

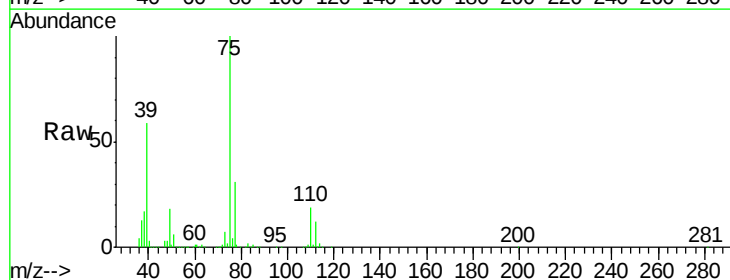
Tgt Ion: 75 Resp: 1738773

Ion Ratio Lower Upper

75 100

39 59.0 51.2 76.8

77 31.1 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

10.04

1000000

800000

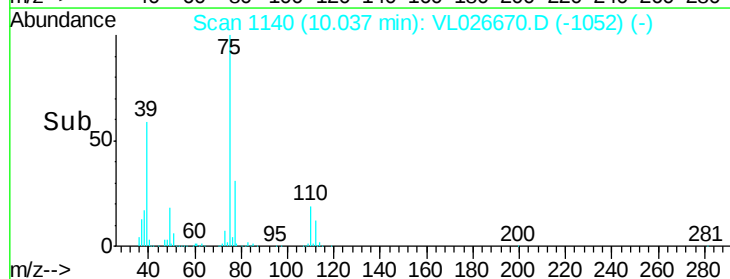
600000

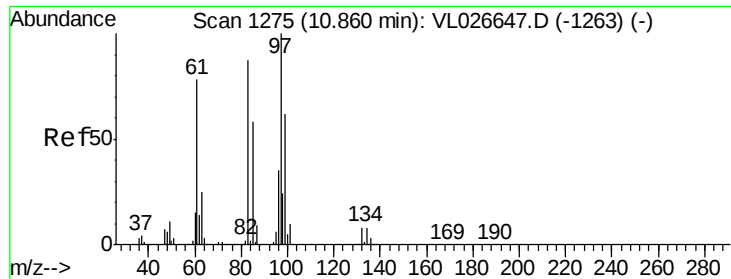
400000

200000

0

Time-->

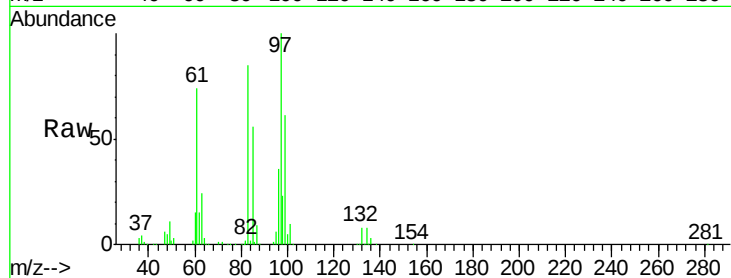




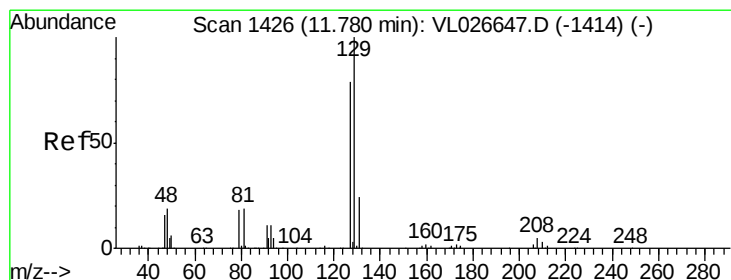
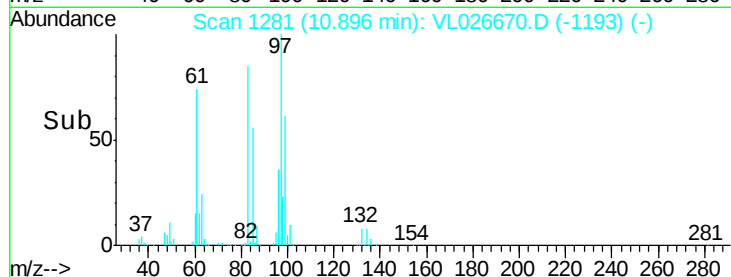
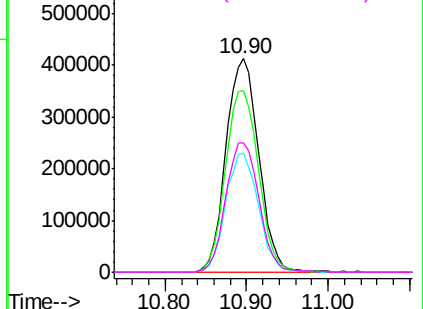
#47
 1,1,2-Trichloroethane
 Concen: 9.08 ppbv
 RT: 10.90 min Scan# 1281
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

Tgt Ion: 97 Resp: 1148379
 Ion Ratio Lower Upper
 97 100
 83 85.2 69.5 104.3
 85 55.6 46.4 69.6
 99 60.7 49.9 74.9

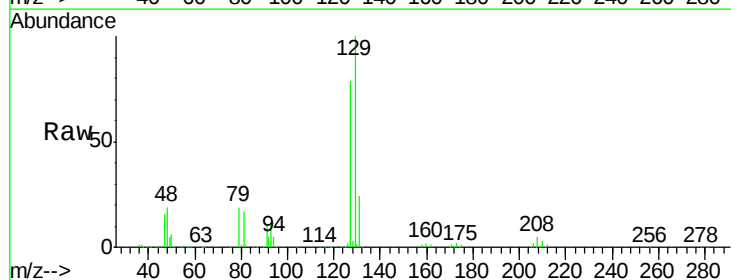


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

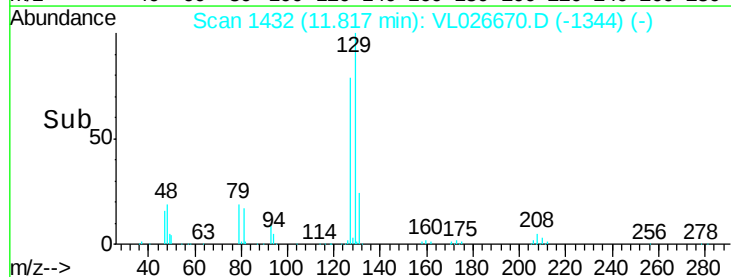
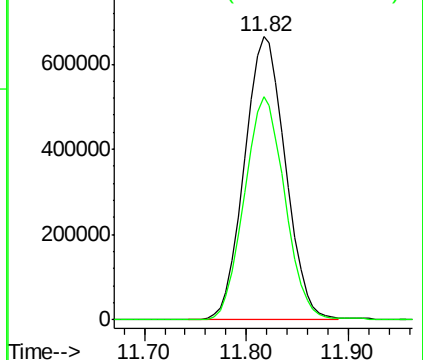


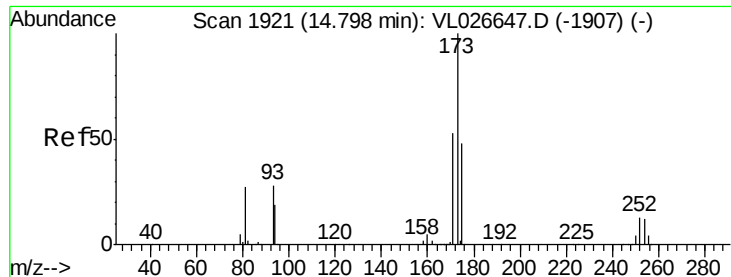
#48
 Dibromochloromethane
 Concen: 9.76 ppbv
 RT: 11.82 min Scan# 1432
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Tgt Ion: 129 Resp: 1853128
 Ion Ratio Lower Upper
 129 100
 127 78.7 39.5 118.5



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.69 ppbv

RT: 14.83 min Scan# 1927

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

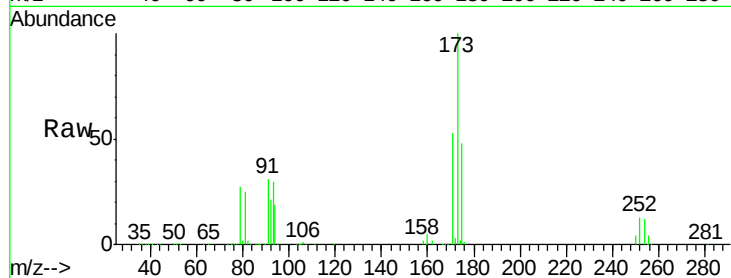
Tgt Ion:173 Resp: 1500073

Ion Ratio Lower Upper

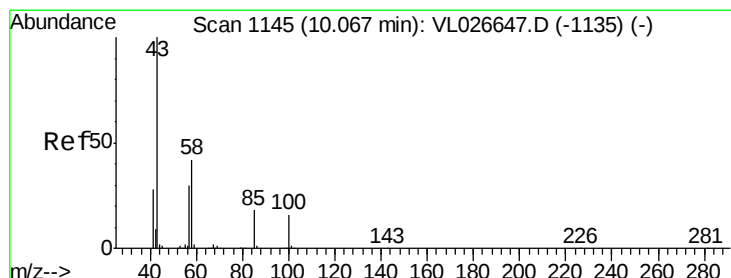
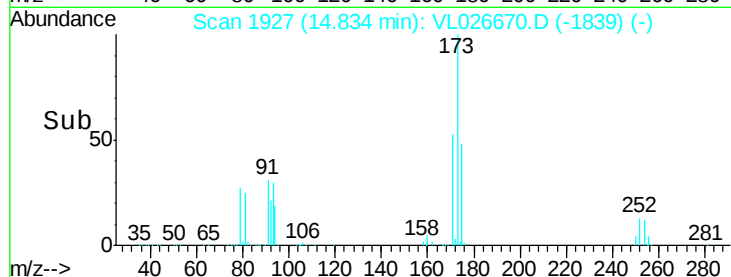
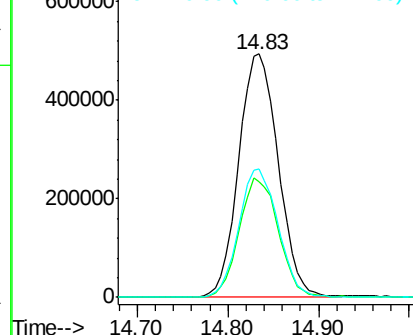
173 100

175 49.2 38.6 58.0

171 52.9 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.18 ppbv

RT: 10.10 min Scan# 1150

Delta R.T. 0.03 min

Lab File: VL026670.D

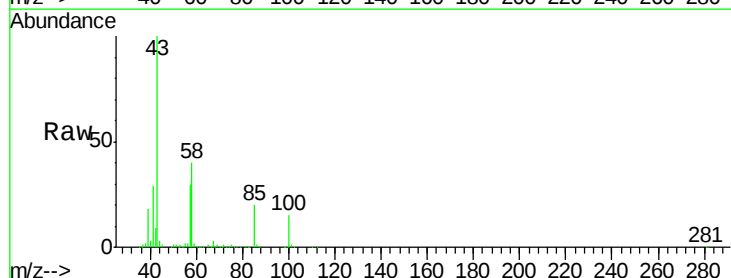
Acq: 12 Jan 2016 11:09

Tgt Ion: 43 Resp: 1715891

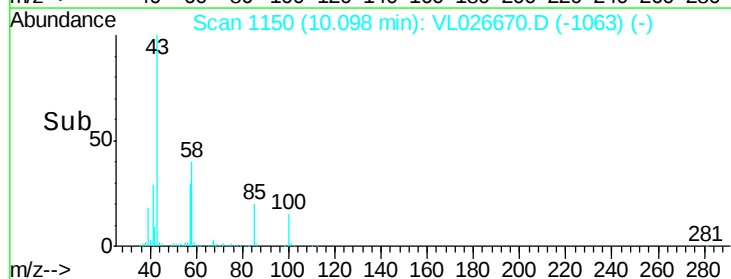
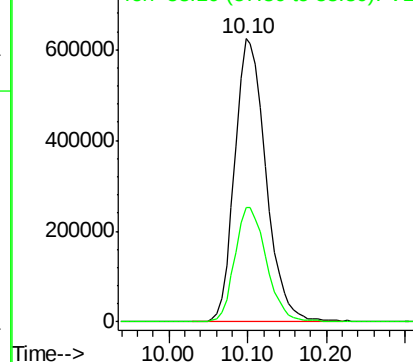
Ion Ratio Lower Upper

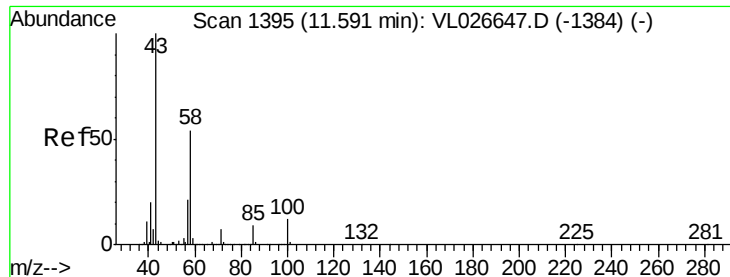
43 100

58 41.0 32.4 48.6



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

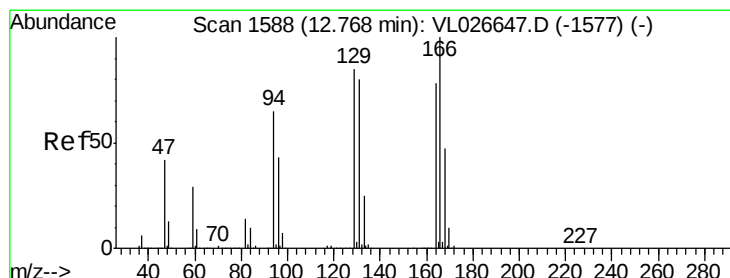
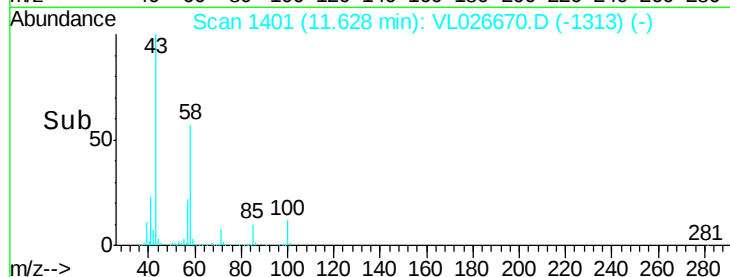
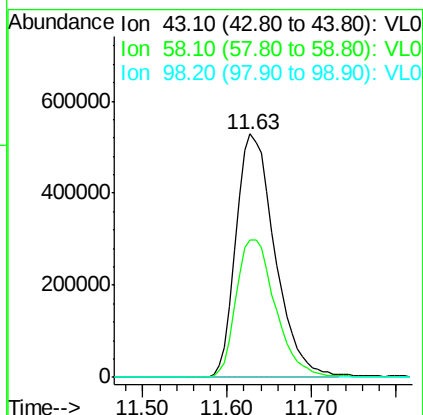
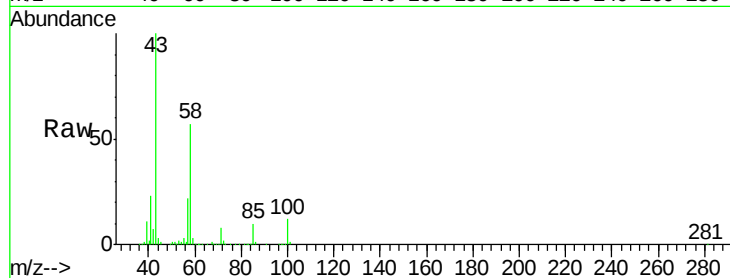




#51
2-Hexanone
Concen: 9.64 ppbv
RT: 11.63 min Scan# 1401
Delta R.T. 0.04 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

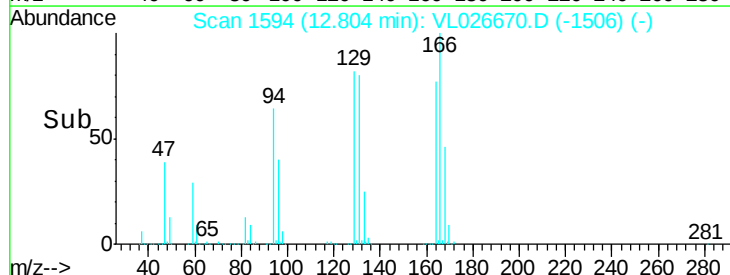
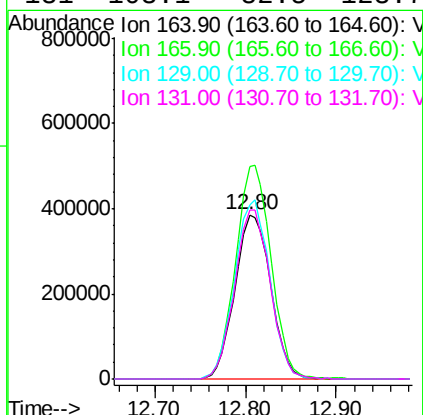
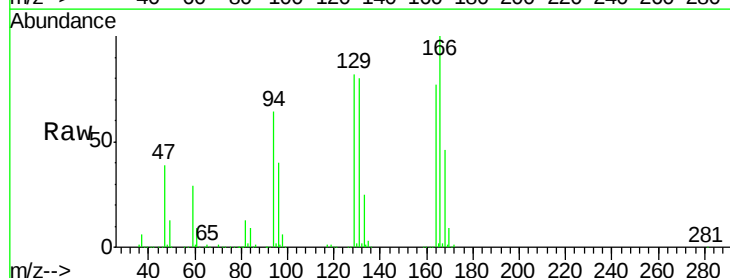
Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

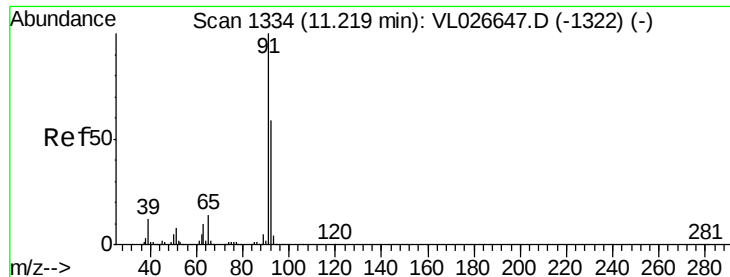
Tgt Ion: 43 Resp: 1660418
Ion Ratio Lower Upper
43 100
58 57.5 44.9 67.3
98 0.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 8.26 ppbv
RT: 12.80 min Scan# 1594
Delta R.T. 0.04 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

Tgt Ion: 164 Resp: 1060690
Ion Ratio Lower Upper
164 100
166 129.4 102.5 153.7
129 106.1 87.0 130.6
131 103.1 82.5 123.7





#53

Toluene

Concen: 9.41 ppbv

RT: 11.25 min Scan# 1339

Delta R.T. 0.03 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

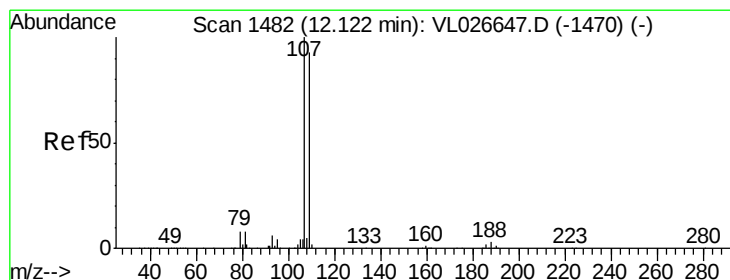
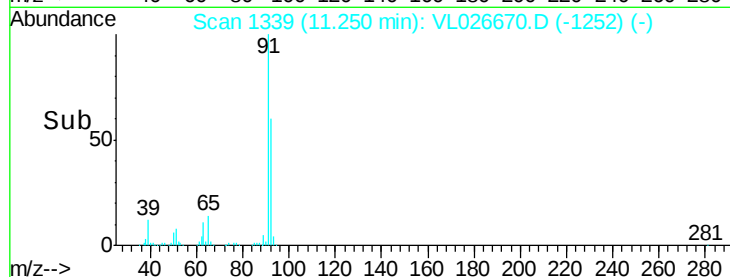
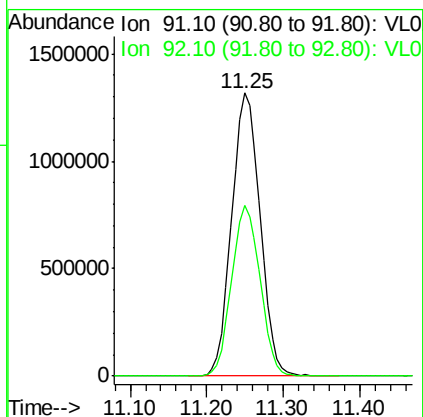
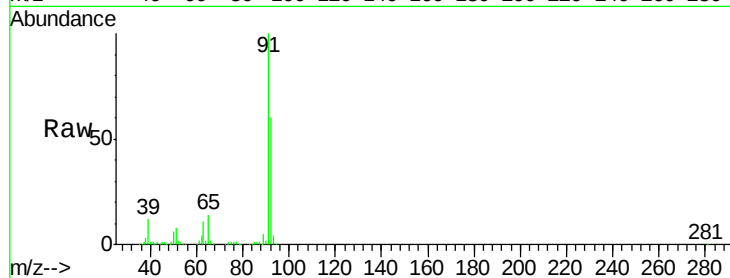
VL0112ABL01

Tgt Ion: 91 Resp: 3404430

Ion Ratio Lower Upper

91 100

92 60.5 48.2 72.4



#54

1,2-Dibromoethane

Concen: 8.95 ppbv

RT: 12.16 min Scan# 1488

Delta R.T. 0.04 min

Lab File: VL026670.D

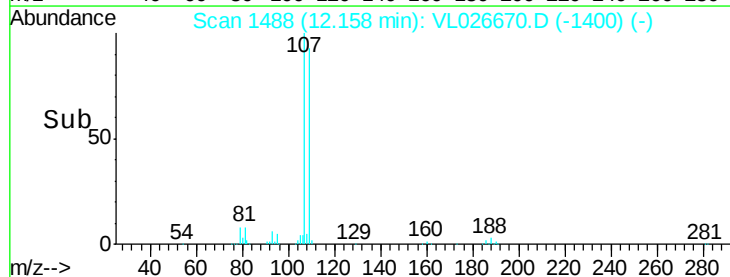
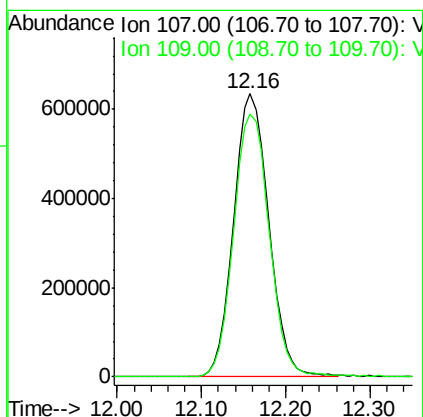
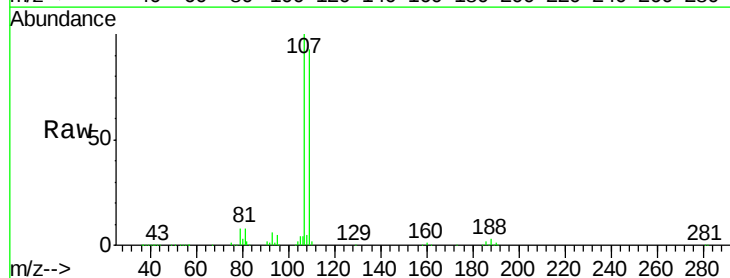
Acq: 12 Jan 2016 11:09

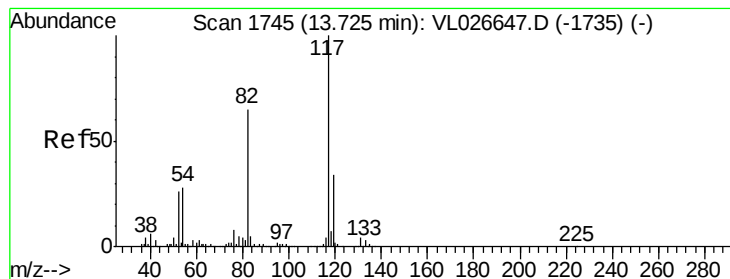
Tgt Ion: 107 Resp: 1793252

Ion Ratio Lower Upper

107 100

109 93.0 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv m

RT: 13.76 min Scan# 1751

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

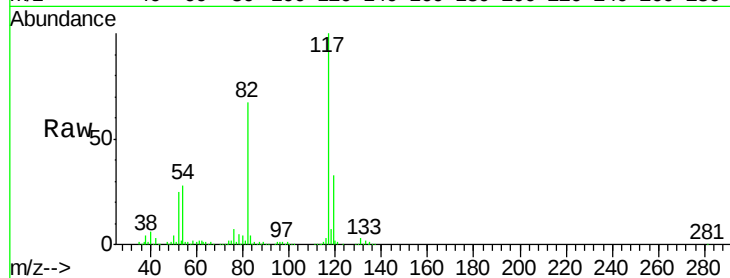
Tgt Ion:117 Resp: 3197930

Ion Ratio Lower Upper

117 100

82 66.7 49.7 74.5

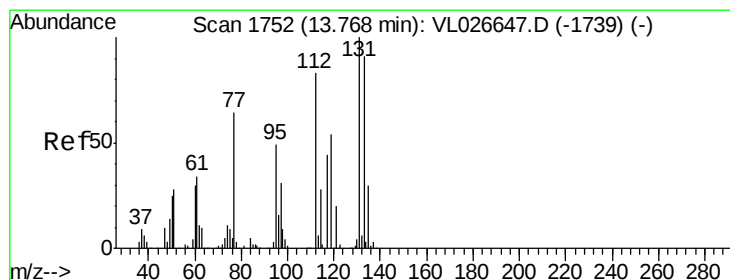
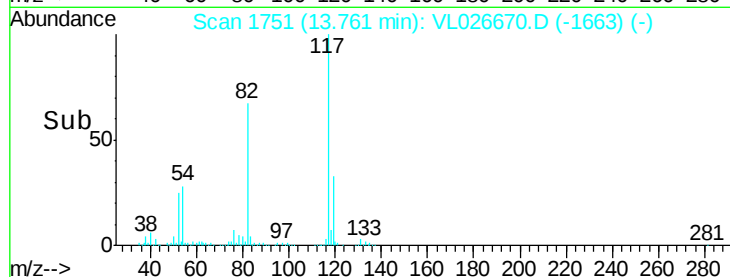
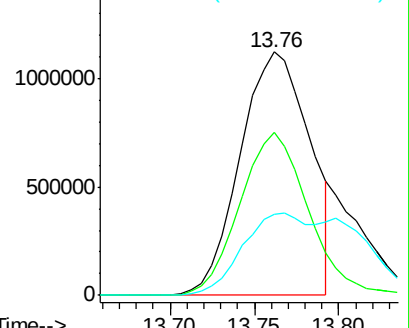
119 57.5 43.8 65.8



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.38 ppbv

RT: 13.80 min Scan# 1758

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

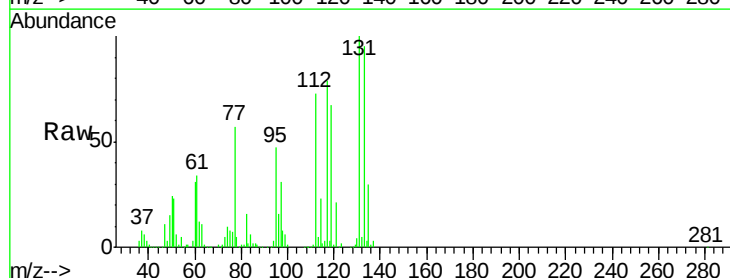
Tgt Ion:131 Resp: 1380733

Ion Ratio Lower Upper

131 100

133 95.1 76.2 114.4

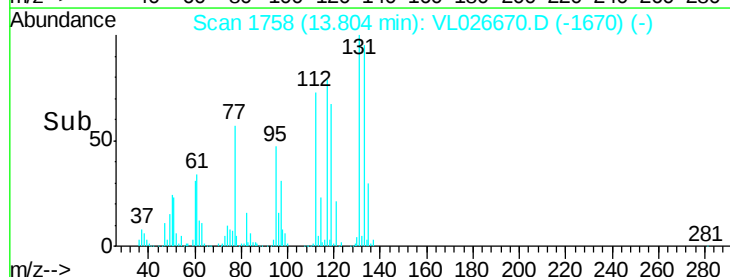
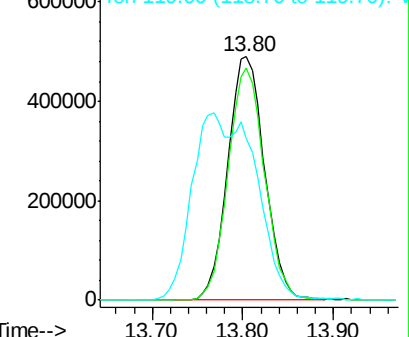
119 133.3 104.3 156.5

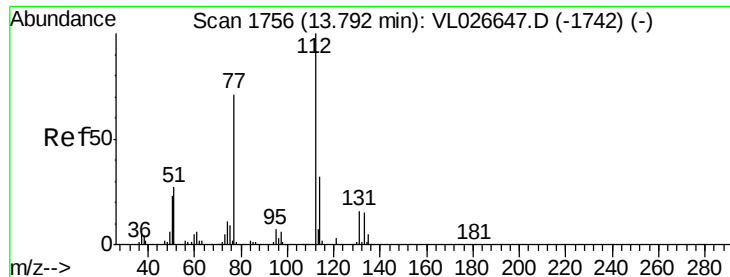


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.58 ppbv

RT: 13.83 min Scan# 1762

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

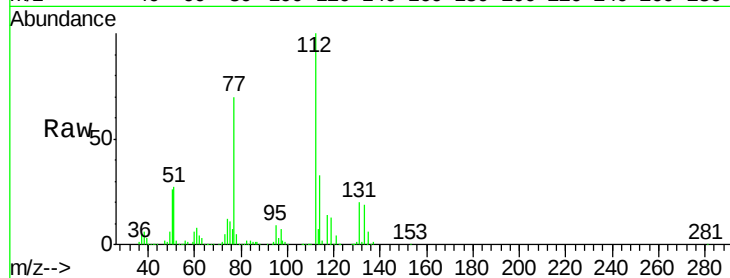
Tgt Ion: 112 Resp: 2826344

Ion Ratio Lower Upper

112 100

77 69.5 56.9 85.3

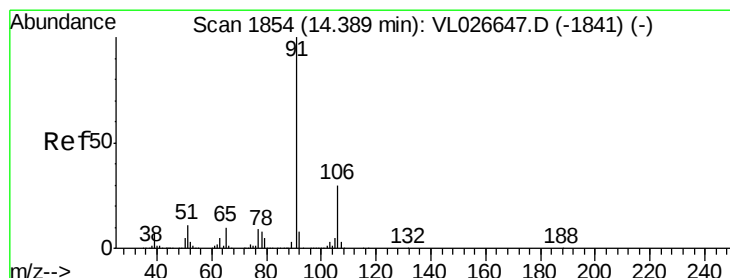
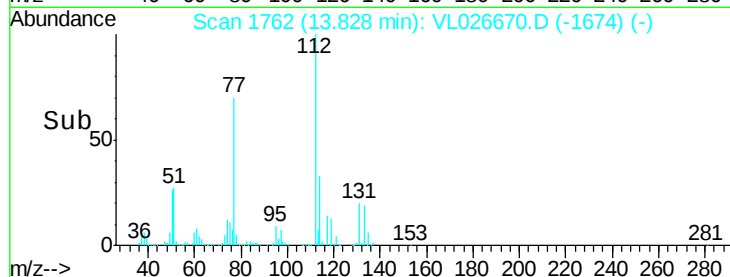
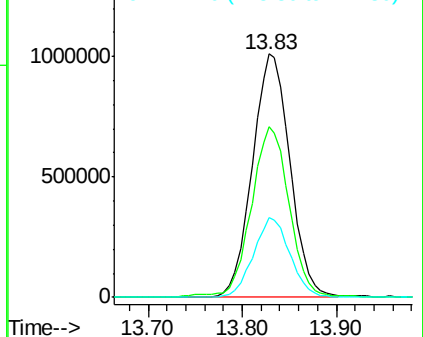
114 32.5 28.8 35.2



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: 9.51 ppbv

RT: 14.43 min Scan# 1860

Delta R.T. 0.04 min

Lab File: VL026670.D

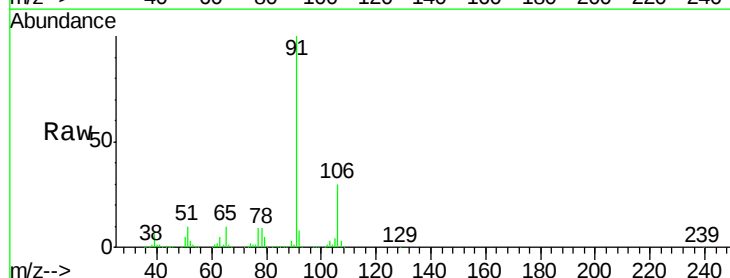
Acq: 12 Jan 2016 11:09

Tgt Ion: 91 Resp: 5430382

Ion Ratio Lower Upper

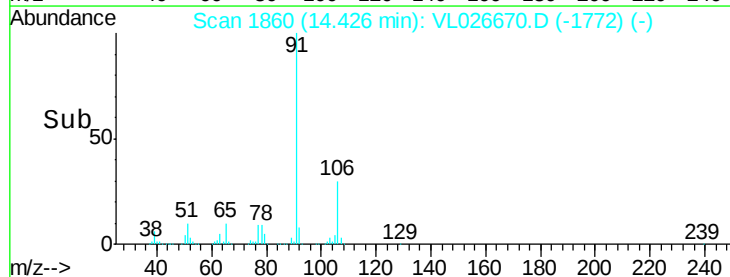
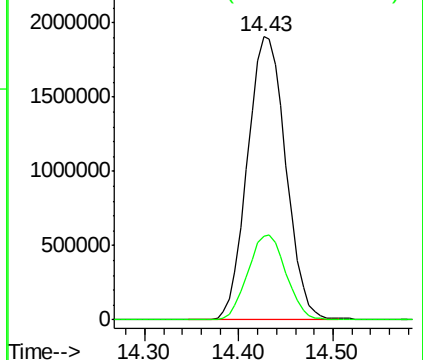
91 100

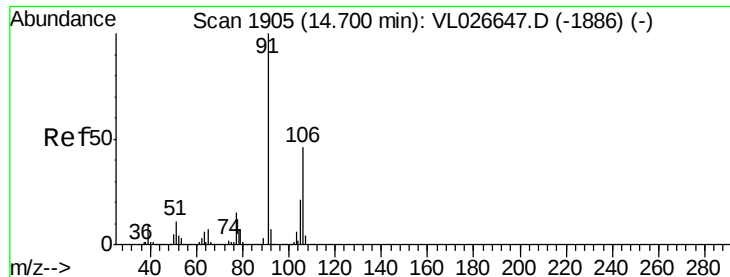
106 29.7 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

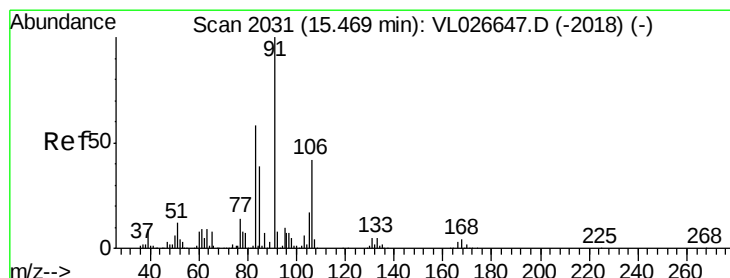
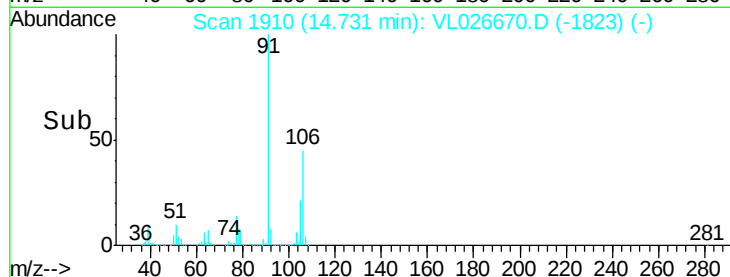
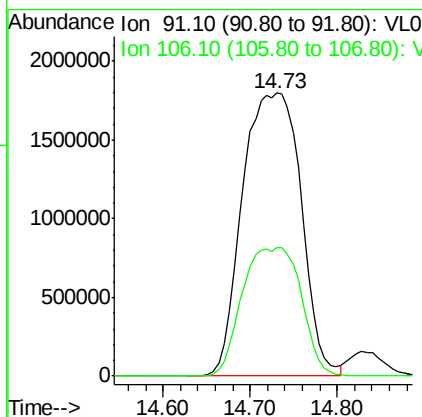
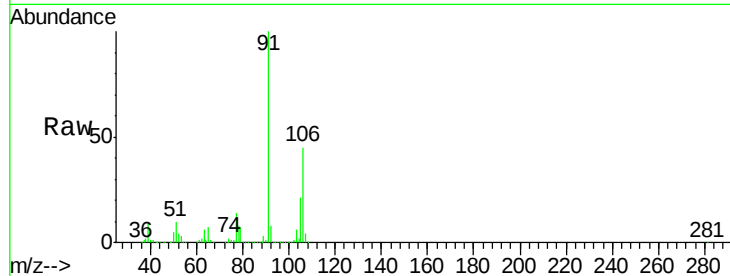




#59
m/p-Xylene
Concen: 17.84 ppbv m
RT: 14.73 min Scan# 1910
Delta R.T. 0.03 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

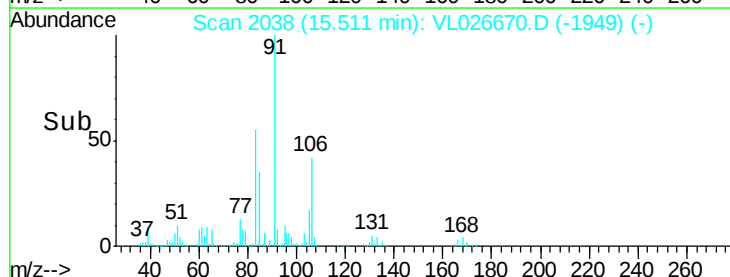
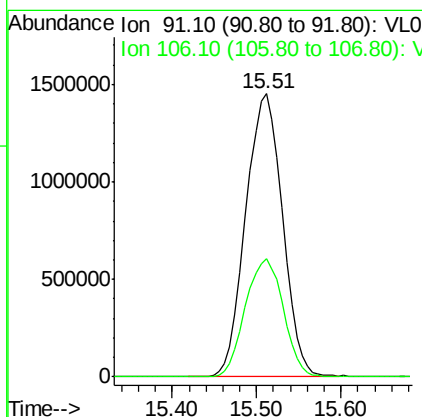
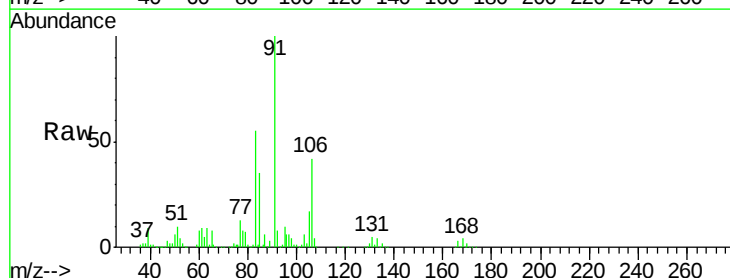
Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

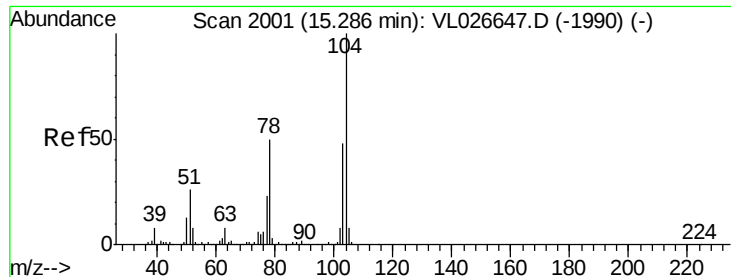
Tgt Ion: 91 Resp: 8400501
Ion Ratio Lower Upper
91 100
106 45.9 36.6 55.0



#60
o-Xylene
Concen: 8.49 ppbv
RT: 15.51 min Scan# 2038
Delta R.T. 0.04 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

Tgt Ion: 91 Resp: 4319742
Ion Ratio Lower Upper
91 100
106 43.5 21.5 64.5





#61

Styrene

Concen: 10.34 ppbv

RT: 15.33 min Scan# 2008

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

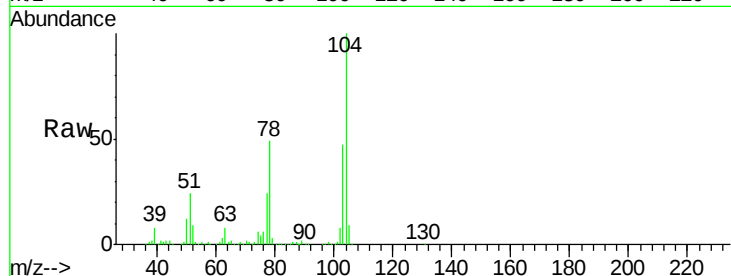
Tgt Ion:104 Resp: 2055419

Ion Ratio Lower Upper

104 100

78 47.8 39.6 59.4

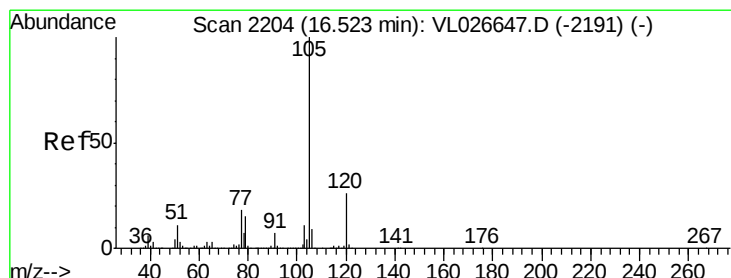
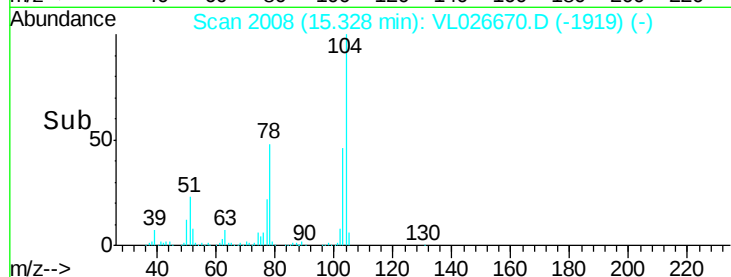
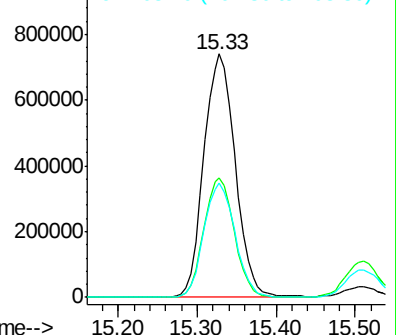
103 46.6 37.8 56.6



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



#62

Isopropylbenzene

Concen: 9.00 ppbv

RT: 16.56 min Scan# 2210

Delta R.T. 0.04 min

Lab File: VL026670.D

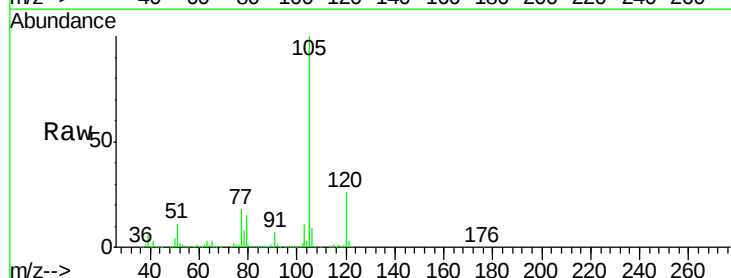
Acq: 12 Jan 2016 11:09

Tgt Ion:105 Resp: 6061653

Ion Ratio Lower Upper

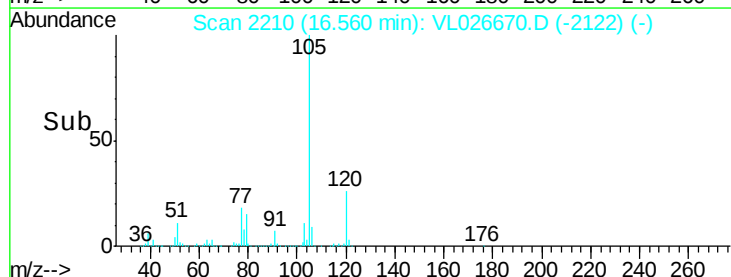
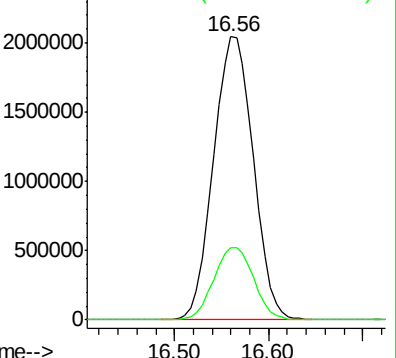
105 100

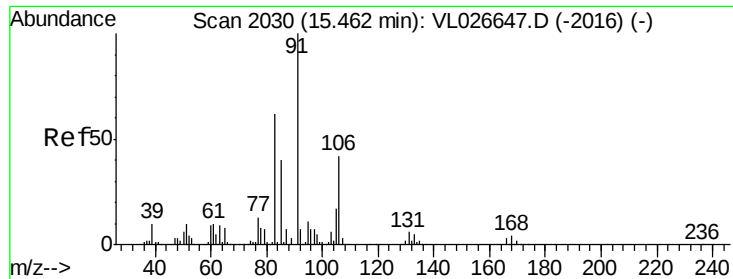
120 25.8 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

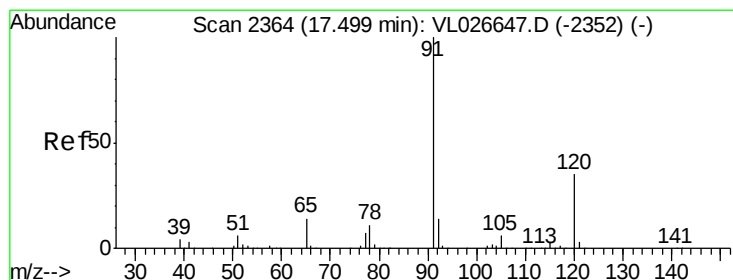
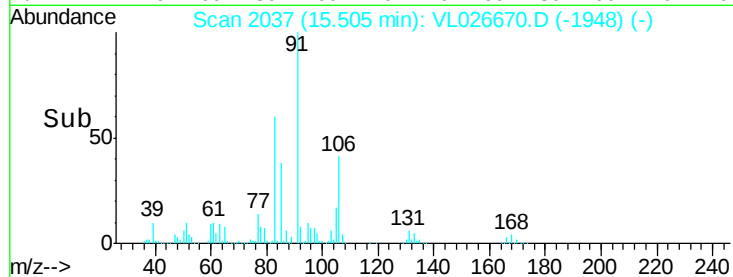
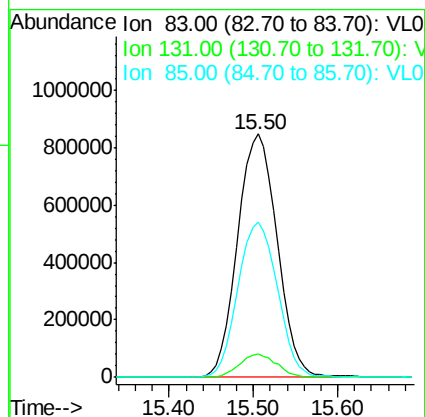
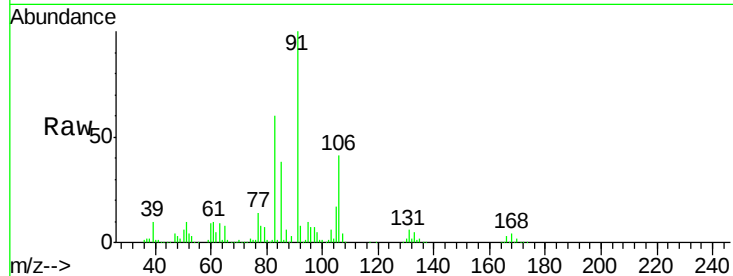




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.15 ppbv
 RT: 15.50 min Scan# 2037
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

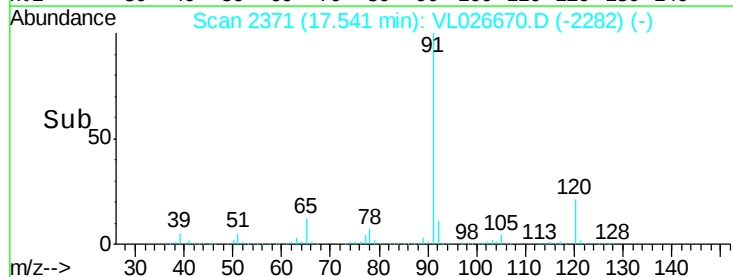
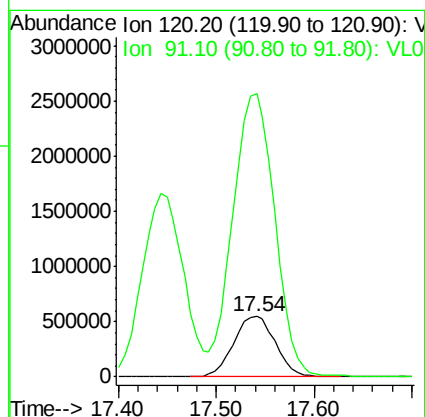
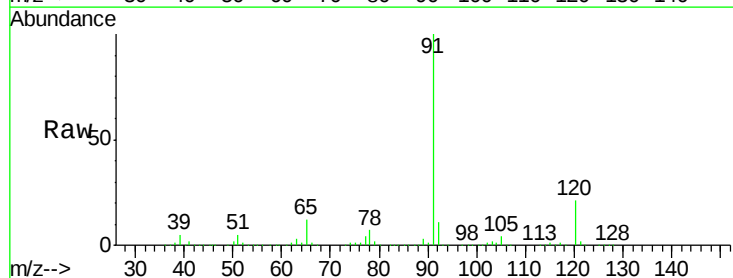
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

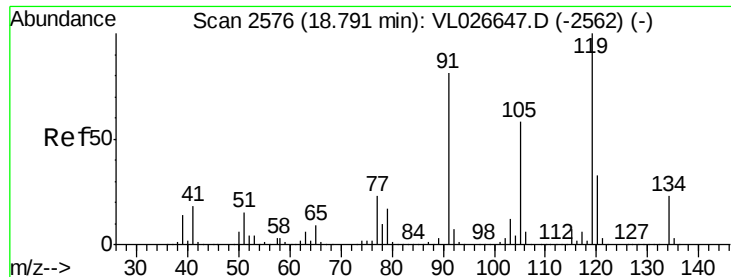
Tgt Ion: 83 Resp: 2710366
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.4
 85 64.4 32.6 97.7



#64
 n-propylbenzene
 Concen: 8.96 ppbv
 RT: 17.54 min Scan# 2371
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Tgt Ion: 120 Resp: 1619466
 Ion Ratio Lower Upper
 120 100
 91 466.2 375.8 563.6

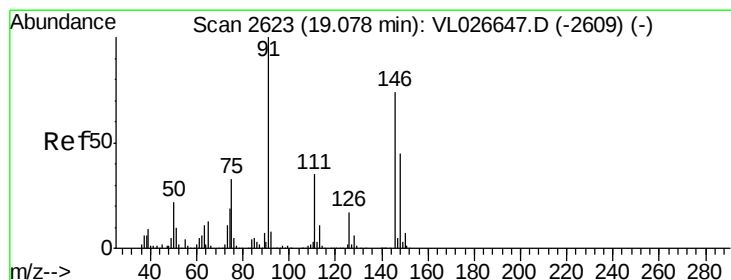
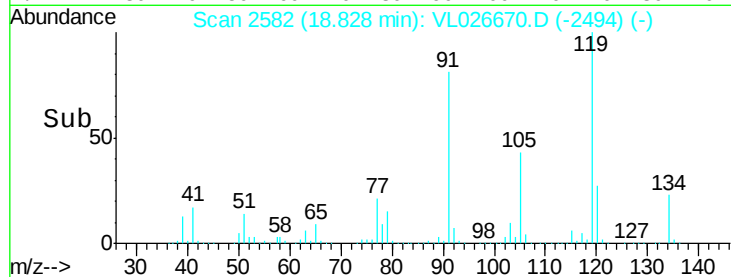
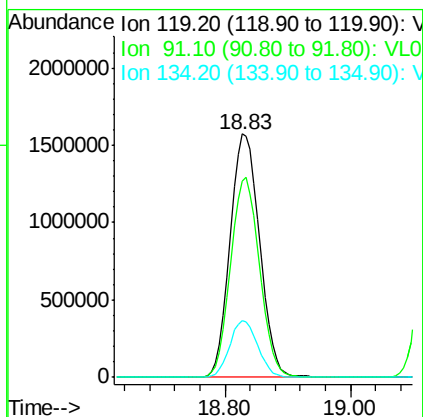
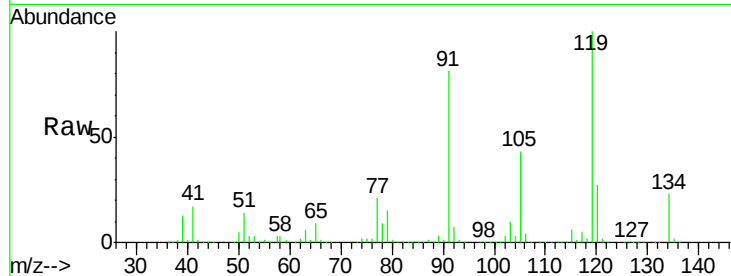




#65
 tert-Butylbenzene
 Concen: 8.33 ppbv
 RT: 18.83 min Scan# 2582
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

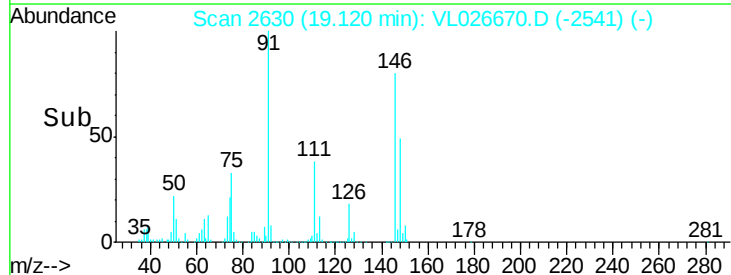
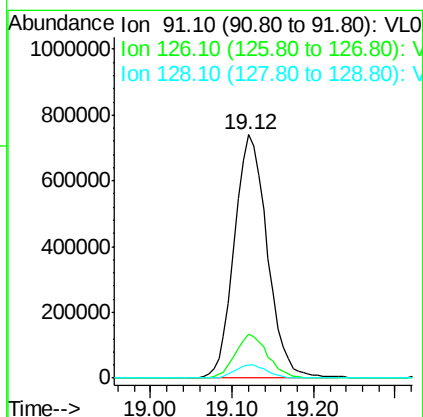
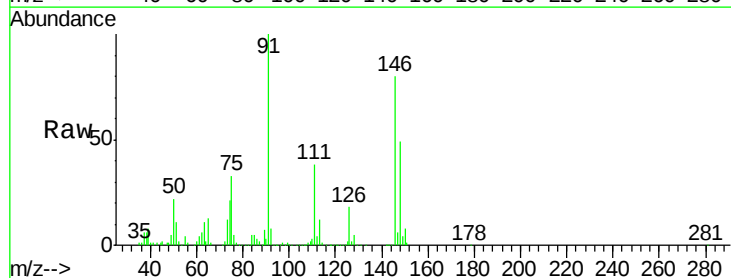
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

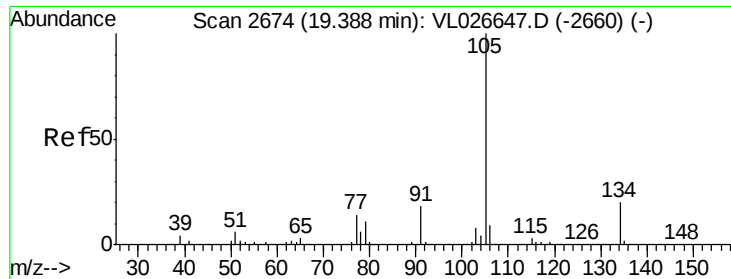
Tgt Ion: 119 Resp: 5142105
 Ion Ratio Lower Upper
 119 100
 91 80.5 64.8 97.2
 134 22.2 17.4 26.0



#66
 Benzyl Chloride
 Concen: 9.35 ppbv
 RT: 19.12 min Scan# 2630
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Tgt Ion: 91 Resp: 2061109
 Ion Ratio Lower Upper
 91 100
 126 17.8 14.2 21.2
 128 5.5 4.5 6.7

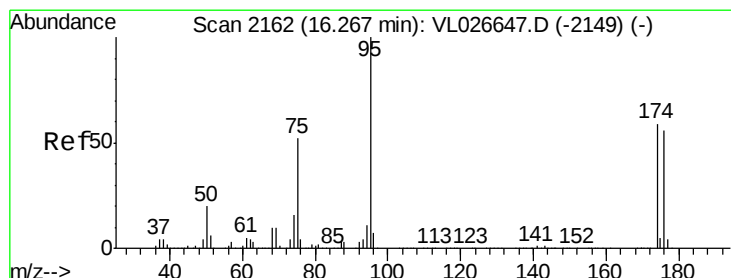
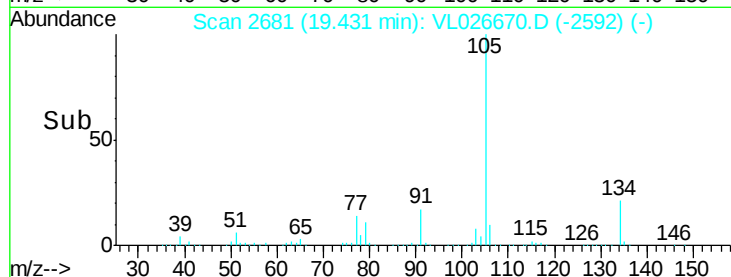
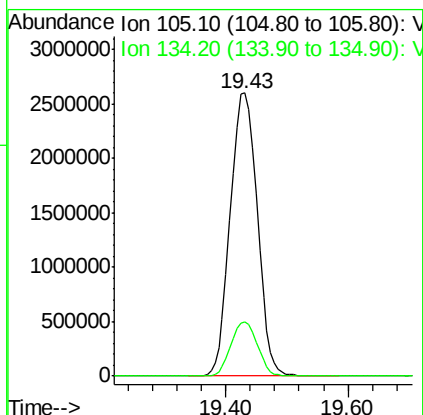
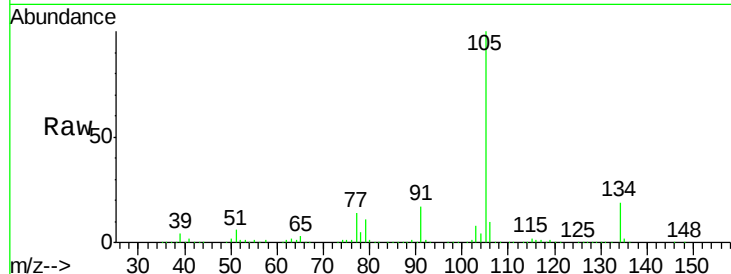




#67
 sec-Butylbenzene
 Concen: 8.66 ppbv
 RT: 19.43 min Scan# 2681
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

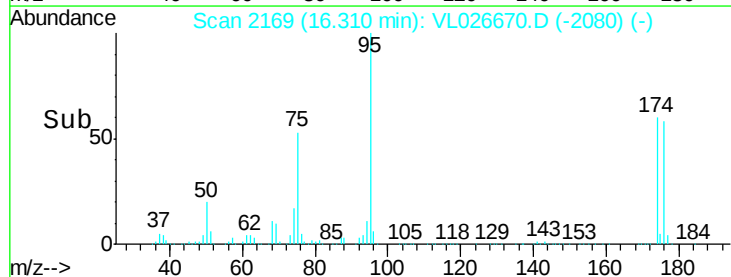
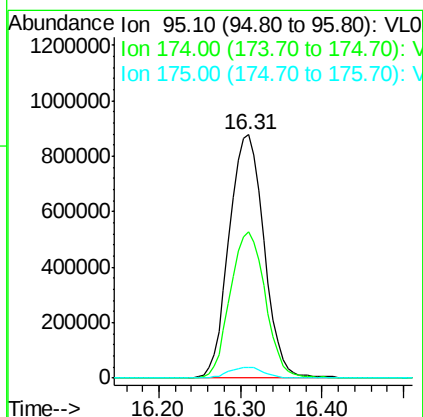
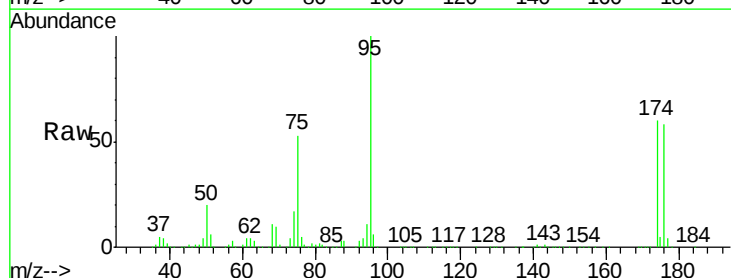
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

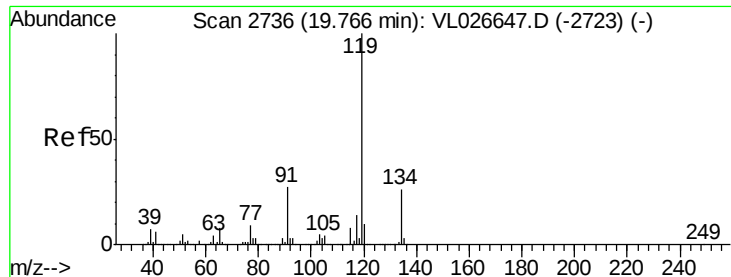
Tgt Ion: 105 Resp: 7927902
 Ion Ratio Lower Upper
 105 100
 134 18.9 14.9 22.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.22 ppbv
 RT: 16.31 min Scan# 2169
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Tgt Ion: 95 Resp: 2605157
 Ion Ratio Lower Upper
 95 100
 174 60.8 47.8 71.8
 175 4.5 3.6 5.4

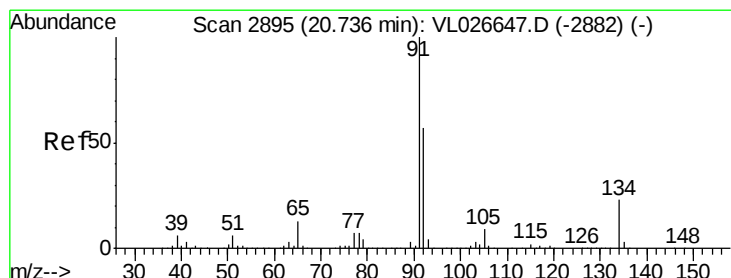
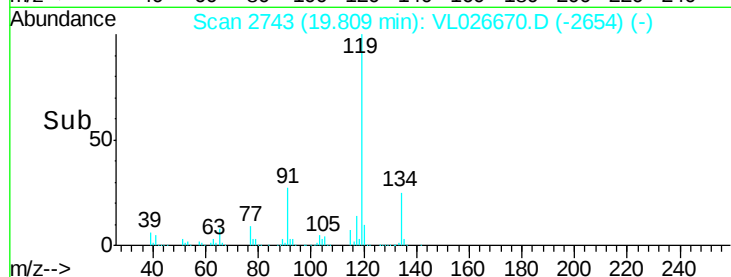
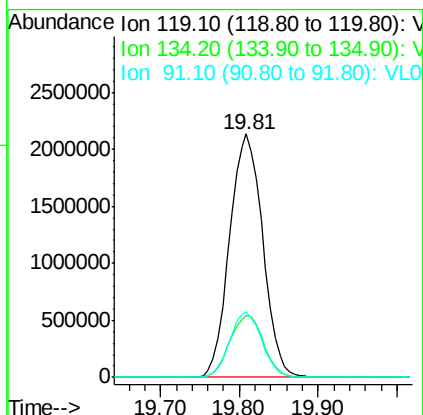
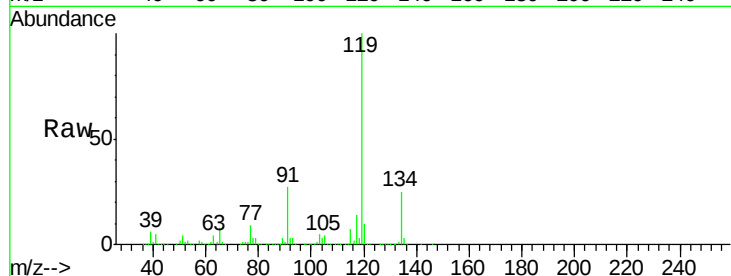




#69
p-Isopropyltoluene
Concen: 8.91 ppbv
RT: 19.81 min Scan# 2743
Delta R.T. 0.04 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

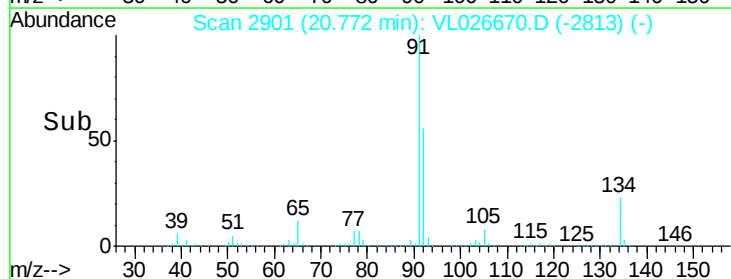
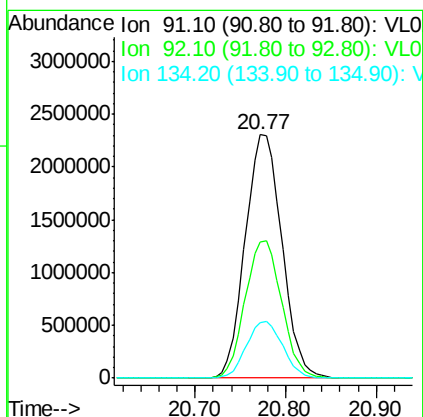
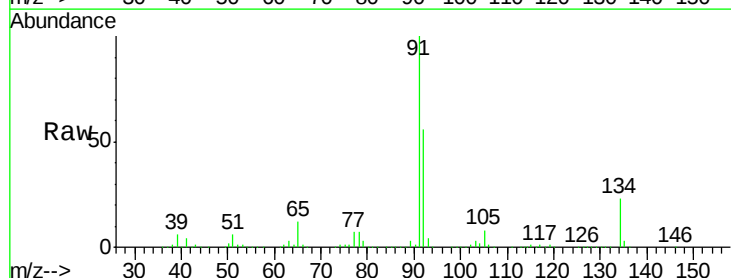
Instrument :
MSVOA_L
ClientSampleId :
VL0112ABL01

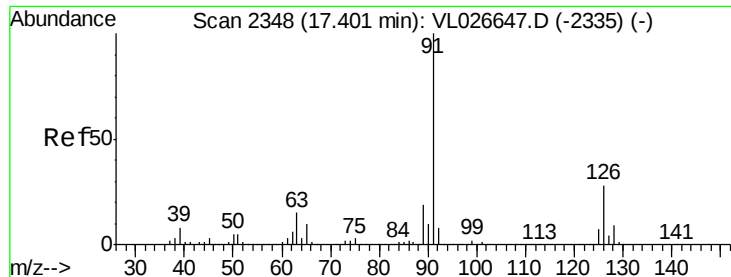
Tgt Ion: 119 Resp: 6240272
Ion Ratio Lower Upper
119 100
134 25.8 20.6 31.0
91 26.0 21.7 32.5



#70
n-Butylbenzene
Concen: 8.85 ppbv
RT: 20.77 min Scan# 2901
Delta R.T. 0.04 min
Lab File: VL026670.D
Acq: 12 Jan 2016 11:09

Tgt Ion: 91 Resp: 6452972
Ion Ratio Lower Upper
91 100
92 56.3 45.0 67.4
134 23.1 18.2 27.2





#71

2-Chlorotoluene

Concen: 9.36 ppbv

RT: 17.44 min Scan# 2355

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

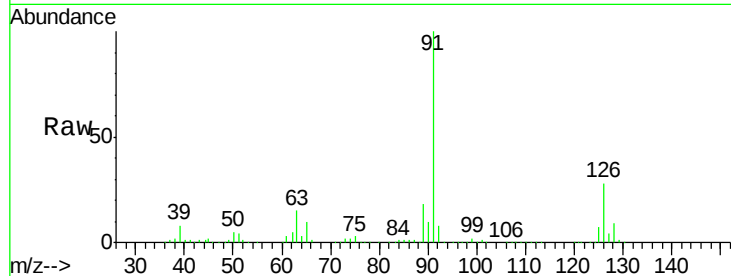
VL0112ABL01

Tgt Ion: 91 Resp: 4912492

Ion Ratio Lower Upper

91 100

126 29.5 11.4 45.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

3000000

2500000

2000000

1500000

1000000

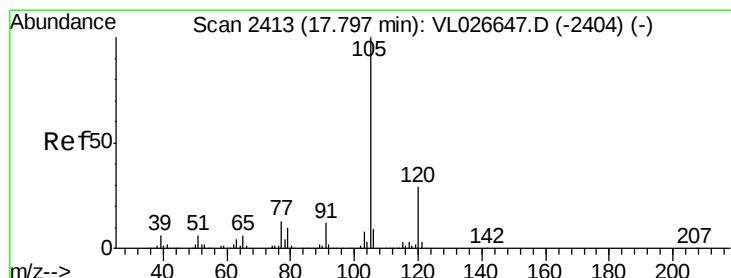
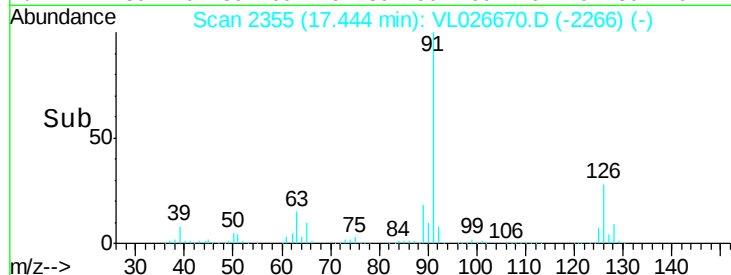
500000

0

17.40

17.50

Time-->



#72

4-Ethyltoluene

Concen: 9.21 ppbv

RT: 17.84 min Scan# 2420

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Tgt Ion: 105 Resp: 5237751

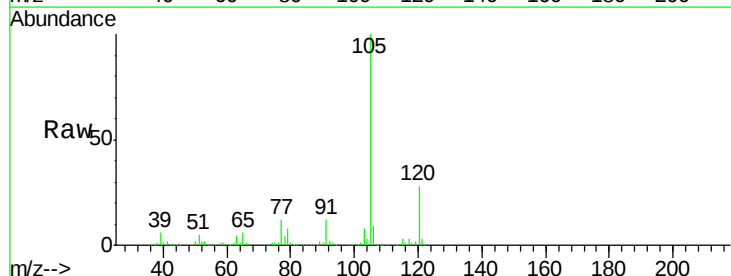
Ion Ratio Lower Upper

105 100

120 29.5 23.7 35.5

91 11.9 9.7 14.5

77 12.7 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

2500000

2000000

1500000

1000000

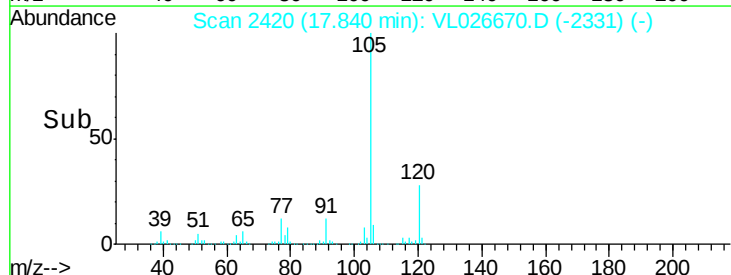
500000

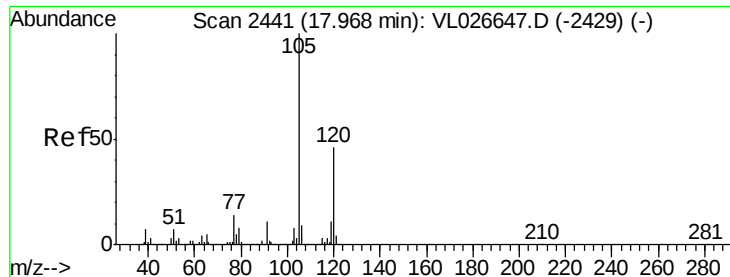
0

17.80

17.90

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 8.91 ppbv

RT: 18.00 min Scan# 2447

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

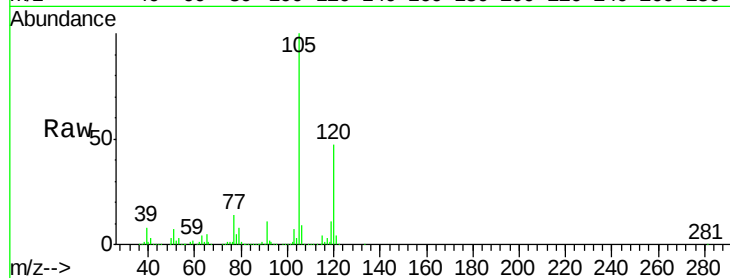
VL0112ABL01

Tgt Ion:105 Resp: 4803964

Ion Ratio Lower Upper

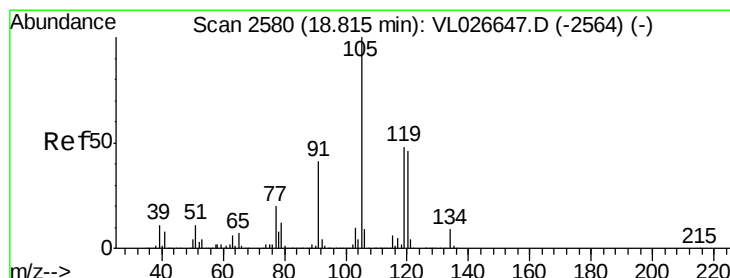
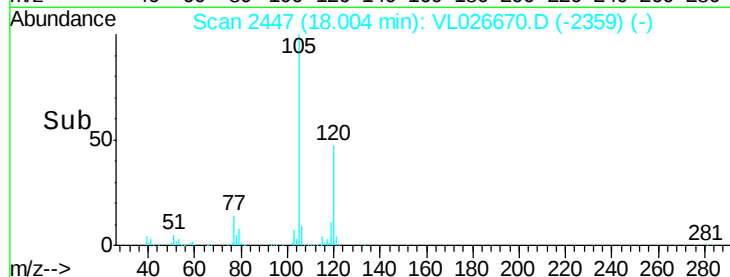
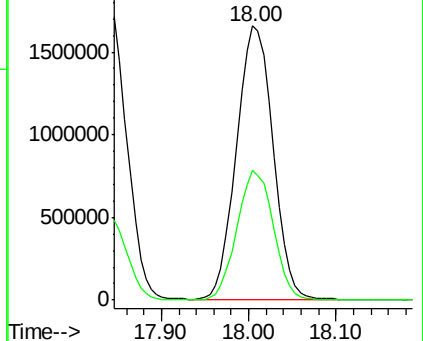
105 100

120 47.4 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: 8.17 ppbv

RT: 18.85 min Scan# 2586

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Tgt Ion:105 Resp: 4675946

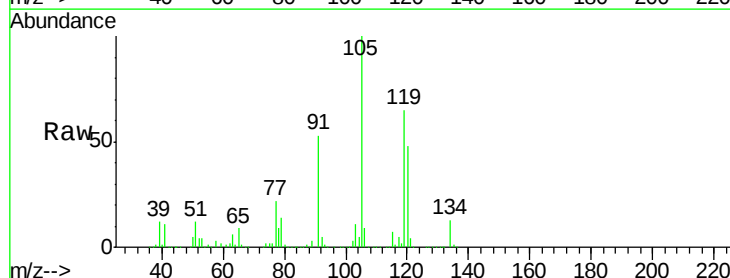
Ion Ratio Lower Upper

105 100

120 48.4 36.6 55.0

91 52.5 32.5 48.7#

77 22.3 15.7 23.5

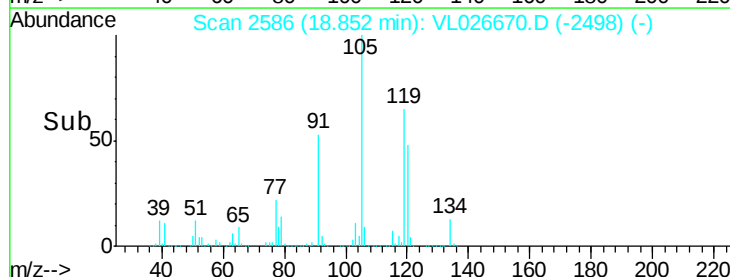
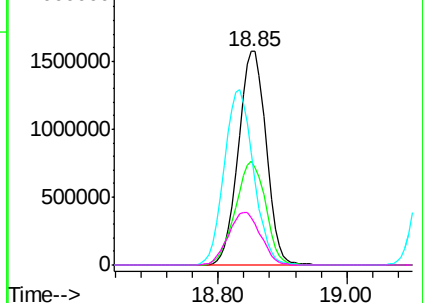


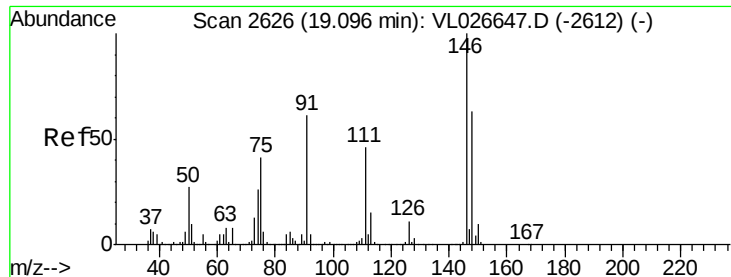
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.24 ppbv

RT: 19.14 min Scan# 2633

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

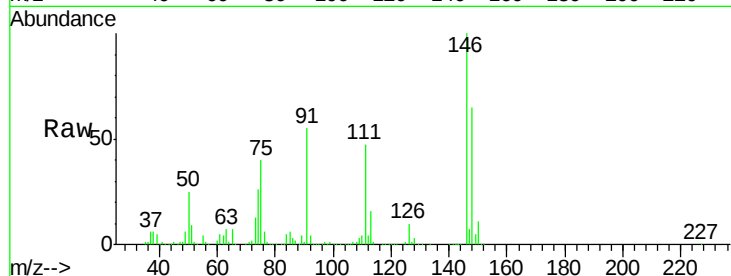
Tgt Ion:146 Resp: 2913853

Ion Ratio Lower Upper

146 100

111 44.8 22.9 68.5

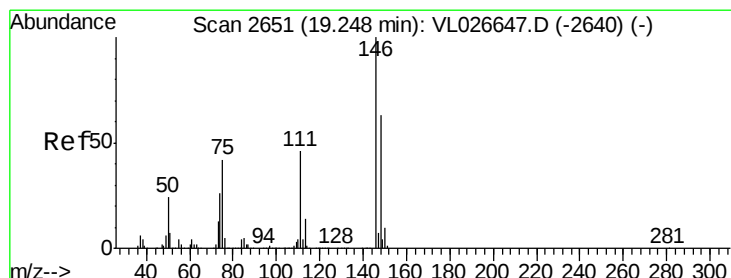
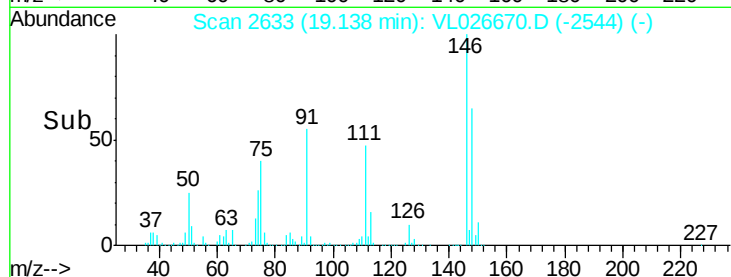
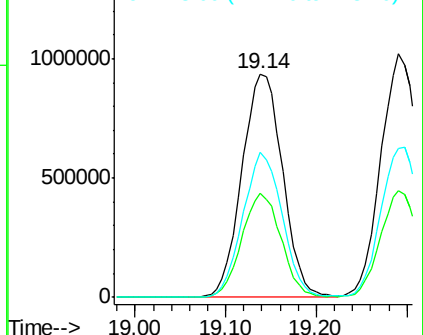
148 62.8 31.6 95.0



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: 8.43 ppbv

RT: 19.29 min Scan# 2658

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

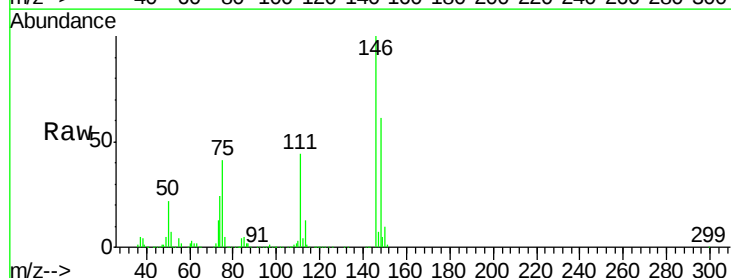
Tgt Ion:146 Resp: 3059938

Ion Ratio Lower Upper

146 100

111 43.6 22.3 66.8

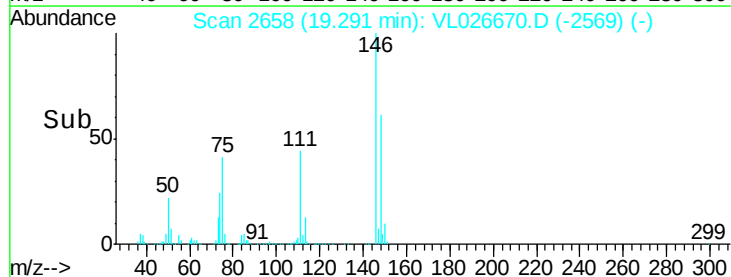
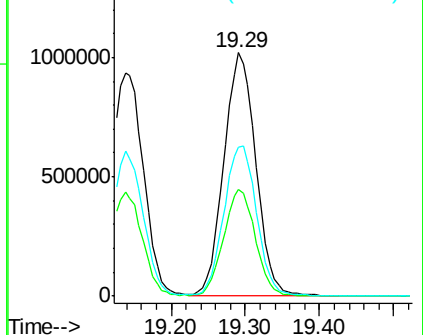
148 63.3 31.9 95.9

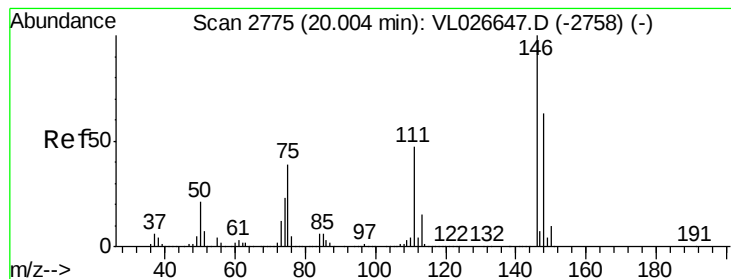


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.31 ppbv

RT: 20.05 min Scan# 2782

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

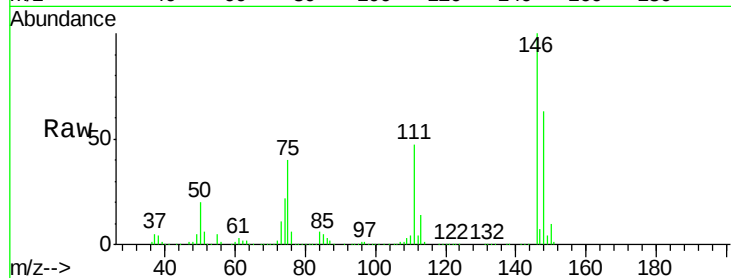
Tgt Ion:146 Resp: 2982596

Ion Ratio Lower Upper

146 100

111 47.0 23.7 71.1

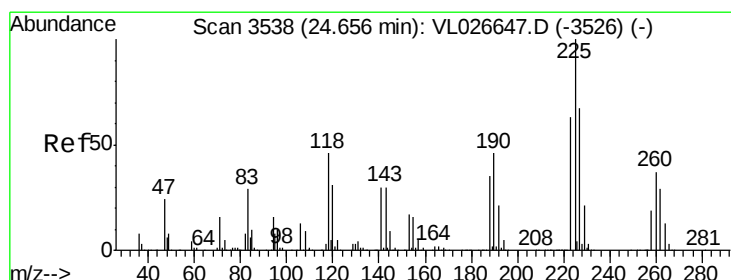
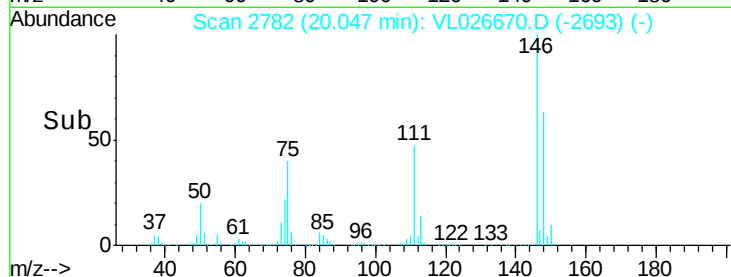
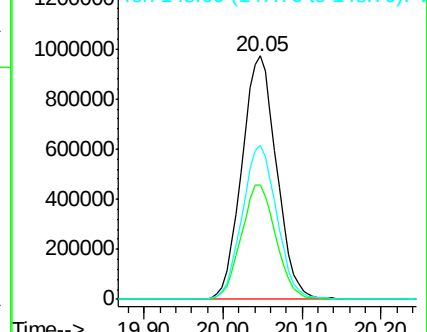
148 63.3 31.1 93.5



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: 6.39 ppbv

RT: 24.69 min Scan# 3544

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

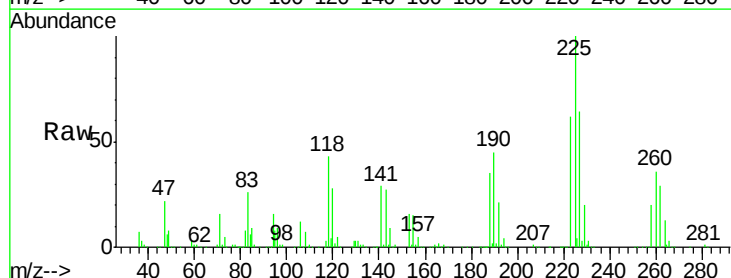
Tgt Ion:225 Resp: 935991

Ion Ratio Lower Upper

225 100

223 63.0 50.1 75.1

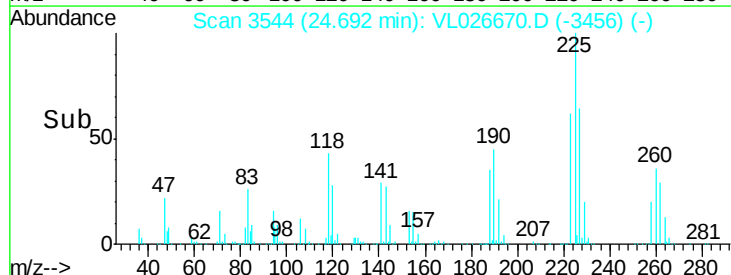
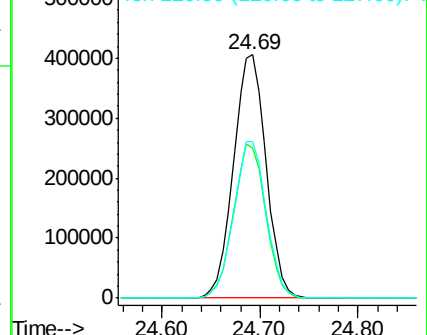
227 64.0 51.1 76.7

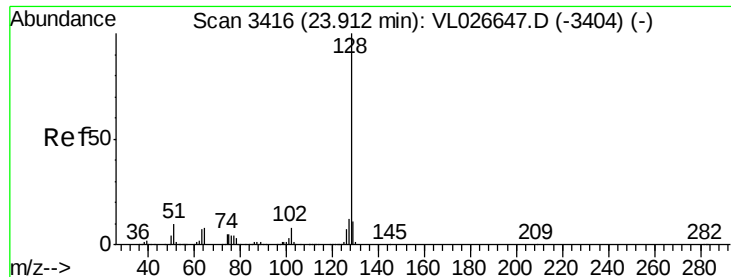


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 6.73 ppbv

RT: 23.95 min Scan# 3422

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

Instrument :

MSVOA_L

ClientSampleId :

VL0112ABL01

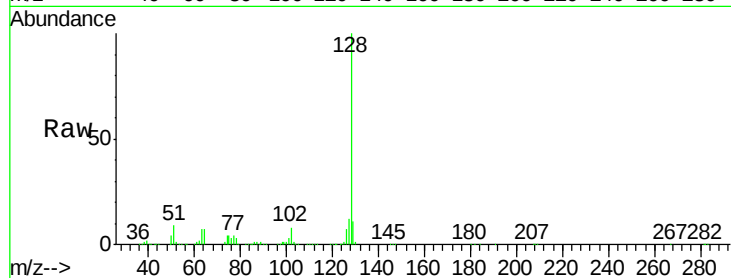
Tgt Ion:128 Resp: 2600628

Ion Ratio Lower Upper

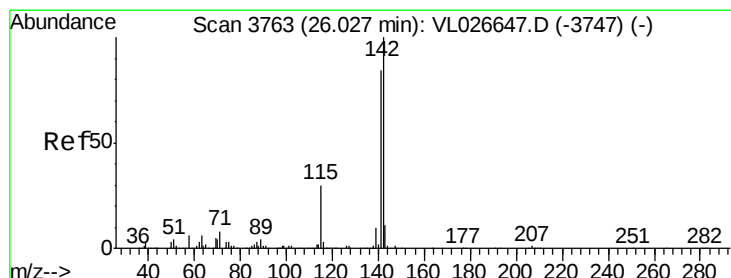
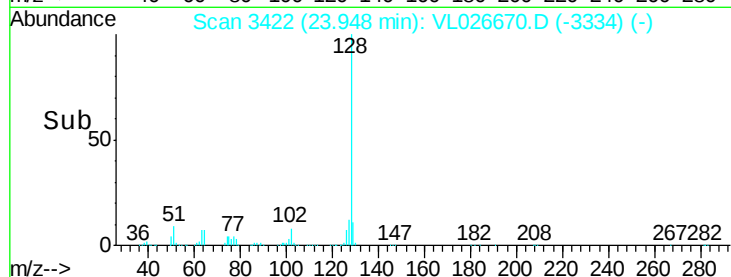
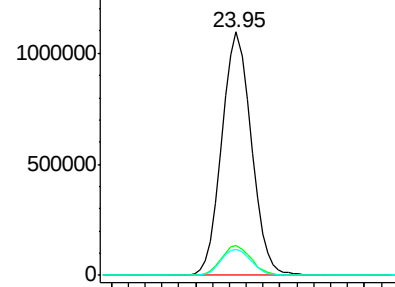
128 100

127 12.3 9.8 14.8

129 10.8 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: 5.77 ppbv

RT: 26.07 min Scan# 3770

Delta R.T. 0.04 min

Lab File: VL026670.D

Acq: 12 Jan 2016 11:09

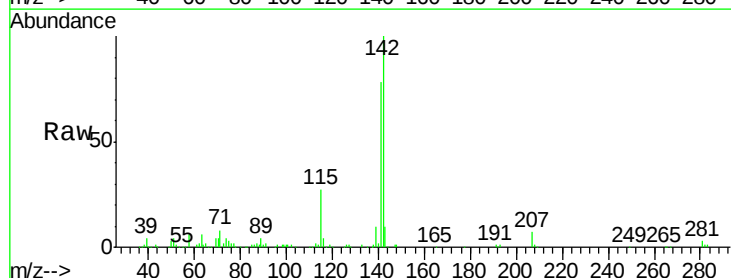
Tgt Ion:142 Resp: 345835

Ion Ratio Lower Upper

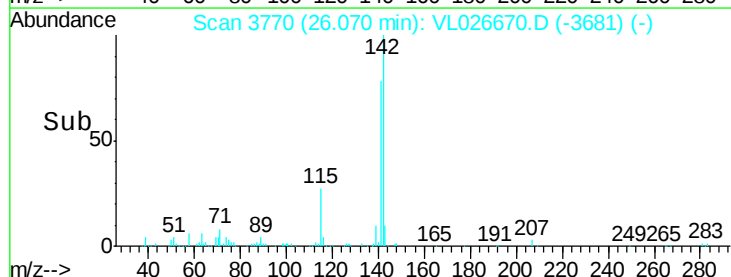
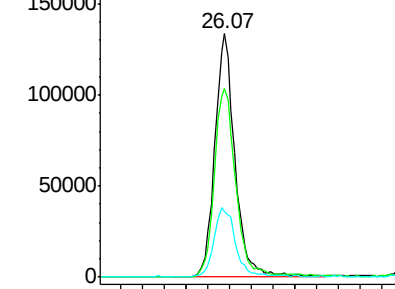
142 100

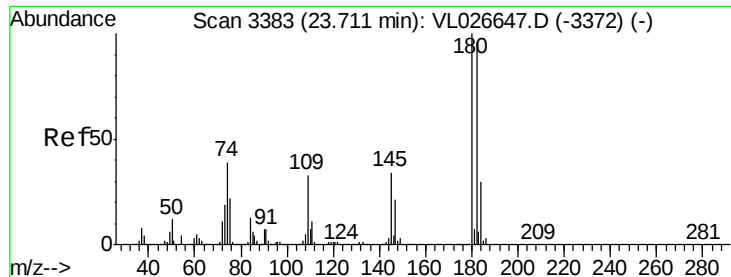
141 84.2 67.0 100.6

115 31.2 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

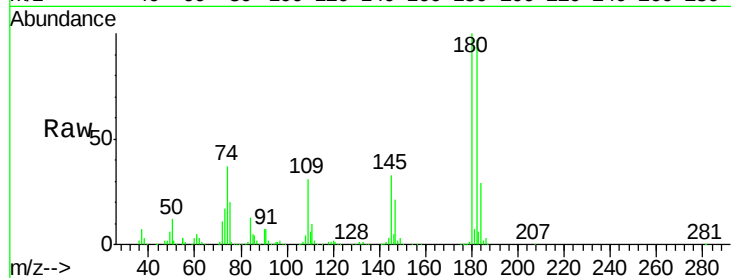




#81
 1,2,4-Trichlorobenzene
 Concen: 7.12 ppbv
 RT: 23.75 min Scan# 3389
 Delta R.T. 0.04 min
 Lab File: VL026670.D
 Acq: 12 Jan 2016 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0112ABL01

Tgt Ion:180 Resp: 1251658
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.4 113.0
 184 29.8 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

