

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026848.D
 Acq On : 10 Feb 2016 10:12
 Operator : SY/AP
 Sample : H1404-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DL

Quant Time: Feb 10 10:46:39 2016
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:14:04 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	1737596	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	5173973	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.79	117	4966379	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	16.33	95	3534028	9.91	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

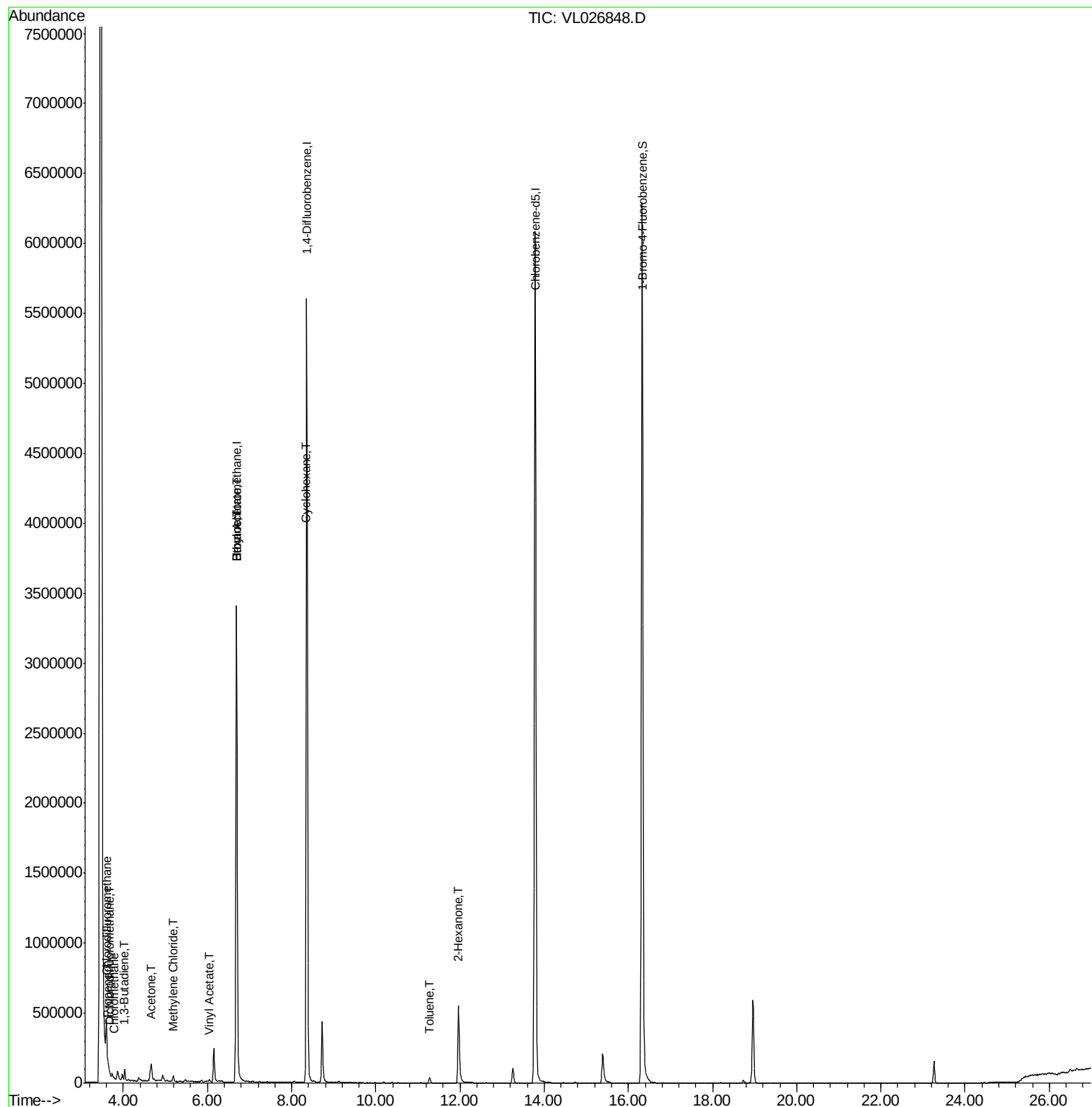
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.67	85	21648	0.06	ppbv	96
3) Chlorodifluoromethane	3.60	51	325895	1.16	ppbv	97
4) Chloromethane	3.79	50	7113	0.06	ppbv	93
9) Propene	3.64	41	11249	0.15	ppbv #	81
15) Acetone	4.67	43	139793	0.59	ppbv #	51
16) 1,3-Butadiene	4.03	39	12745	0.14	ppbv #	7
20) Methylene Chloride	5.19	84	20674	0.17	ppbv	90
23) Vinyl Acetate	6.04	43	14640	0.05	ppbv #	70
25) Ethyl Acetate	6.70	43	24115	0.07	ppbv #	79
26) Hexane	6.70	57	35041	0.17	ppbv #	51
30) Cyclohexane	8.34	84	7028	0.04	ppbv #	13
51) 2-Hexanone	11.96	43	136512	0.54	ppbv #	27
53) Toluene	11.27	91	40185	0.09	ppbv	94

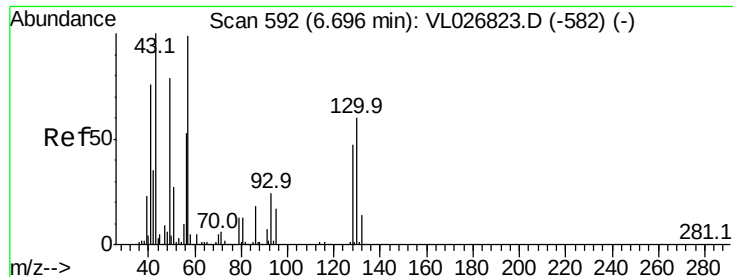
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
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Quant Time: Feb 10 10:46:39 2016
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 03:14:04 2016
QLast Update : Wed Feb 10 03:14:04 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

QA-1DL

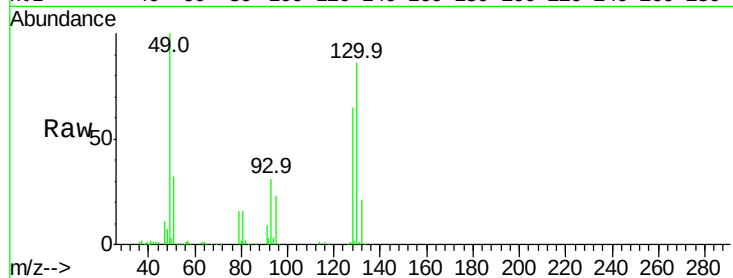
Tgt Ion: 49 Resp: 1737596

Ion Ratio Lower Upper

49 100

128 0.0 29.7 89.1#

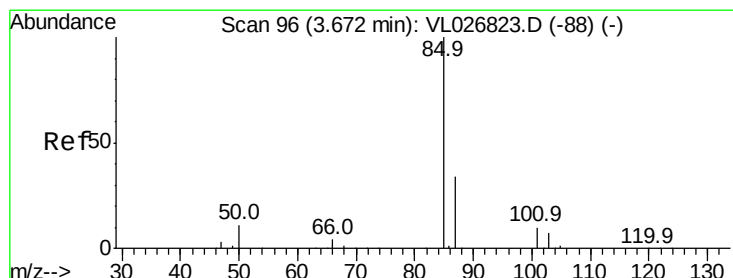
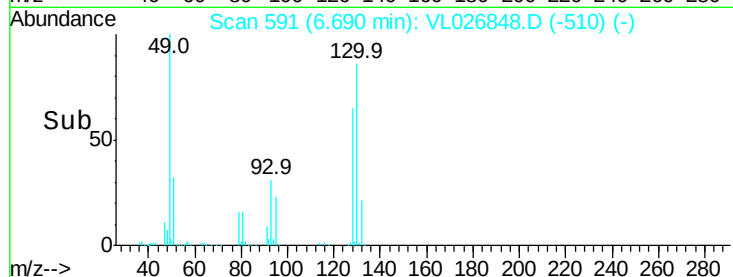
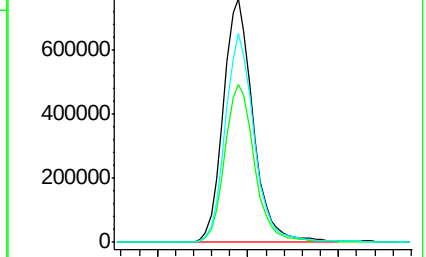
130 84.1 38.3 114.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.67 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL026848.D

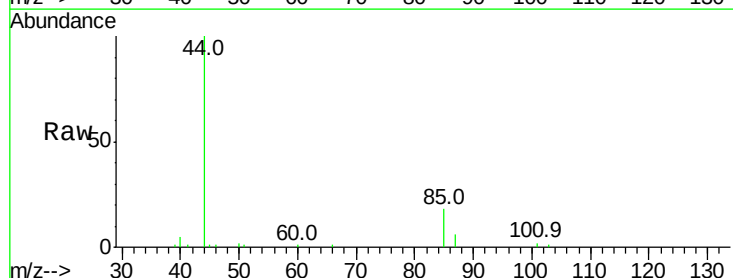
Acq: 10 Feb 2016 10:12

Tgt Ion: 85 Resp: 21648

Ion Ratio Lower Upper

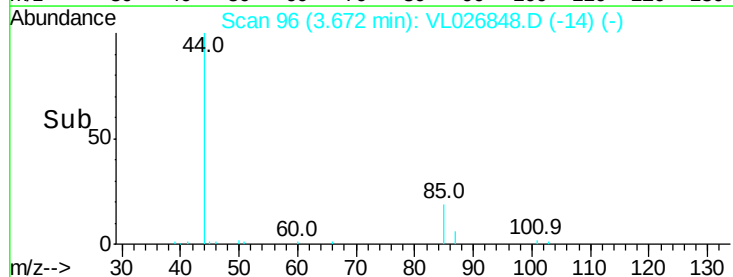
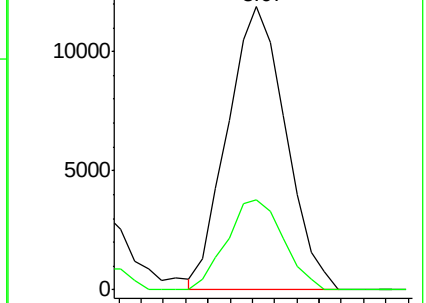
85 100

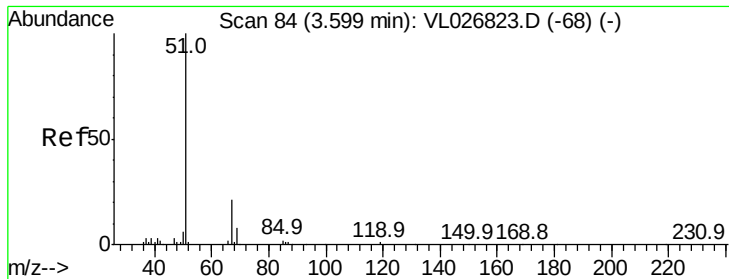
87 32.0 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.16 ppbv

RT: 3.60 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

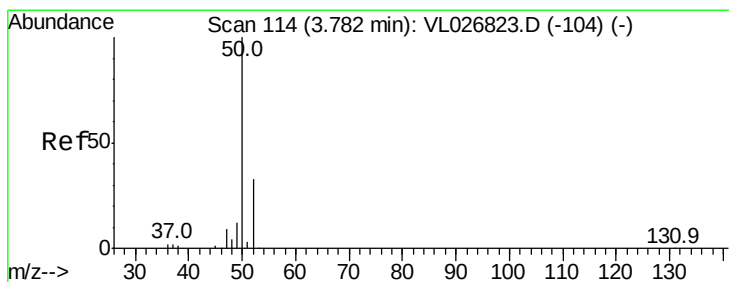
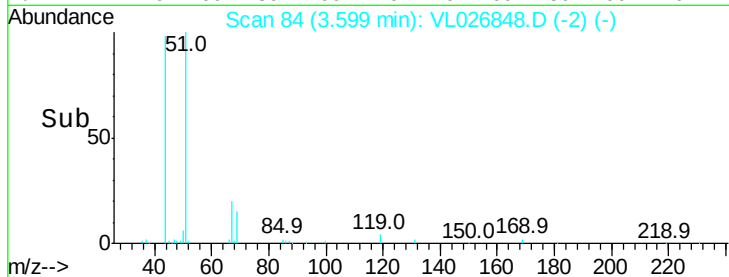
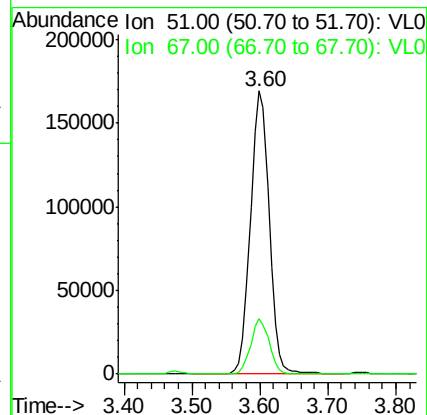
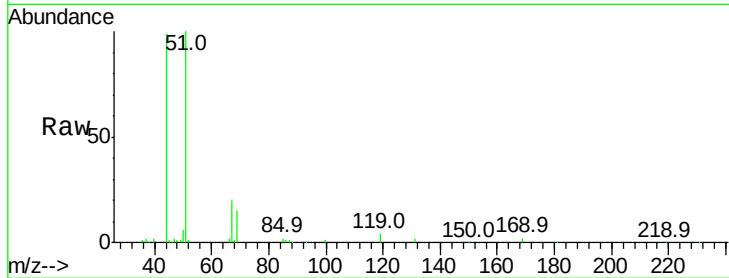
QA-1DL

Tgt Ion: 51 Resp: 325895

Ion Ratio Lower Upper

51 100

67 19.3 16.4 24.6



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.79 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL026848.D

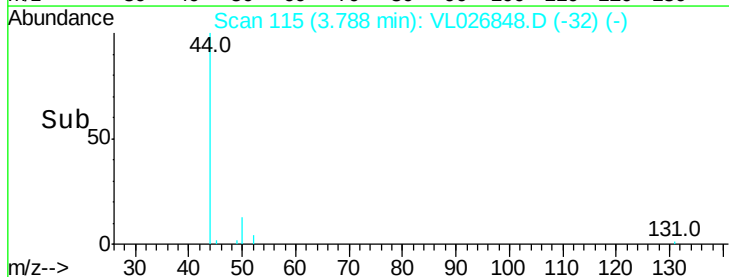
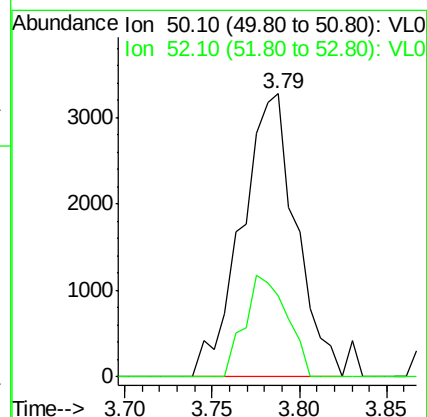
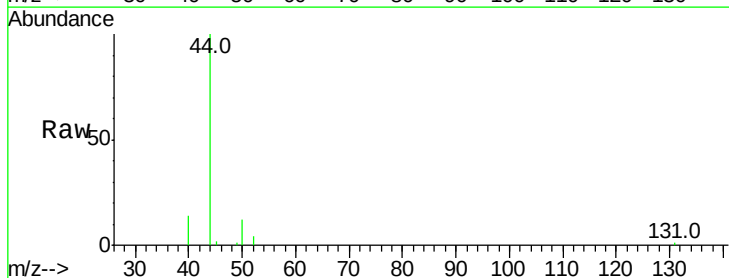
Acq: 10 Feb 2016 10:12

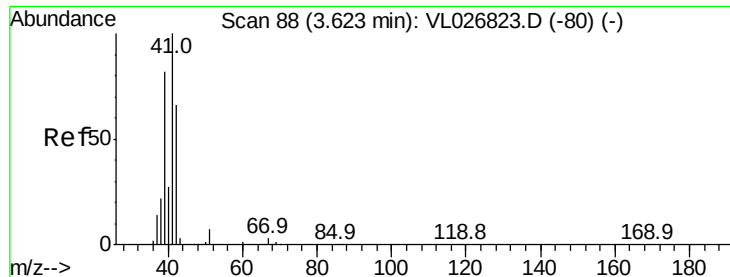
Tgt Ion: 50 Resp: 7113

Ion Ratio Lower Upper

50 100

52 28.8 26.3 39.5





#9

Propene

Concen: 0.15 ppbv

RT: 3.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

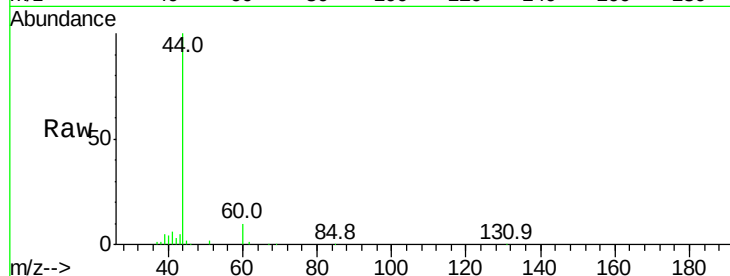
QA-1DL

Tgt Ion: 41 Resp: 11249

Ion Ratio Lower Upper

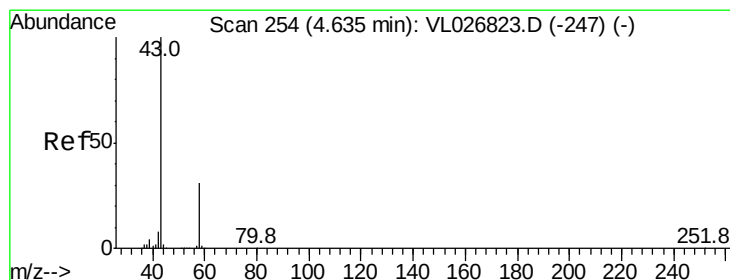
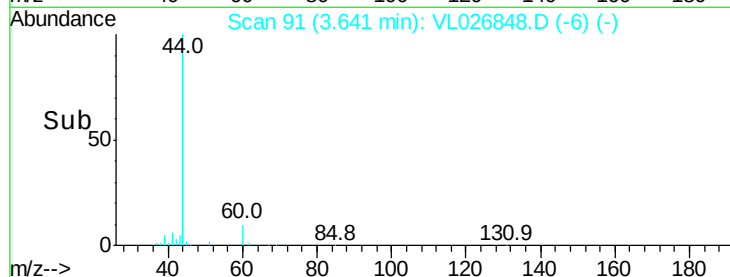
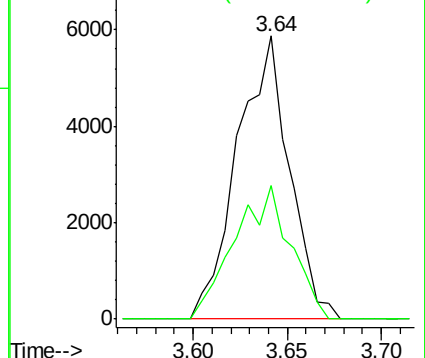
41 100

42 51.0 52.8 79.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#15

Acetone

Concen: 0.59 ppbv

RT: 4.67 min Scan# 259

Delta R.T. 0.03 min

Lab File: VL026848.D

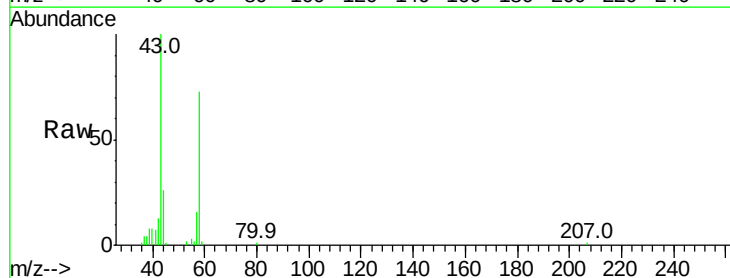
Acq: 10 Feb 2016 10:12

Tgt Ion: 43 Resp: 139793

Ion Ratio Lower Upper

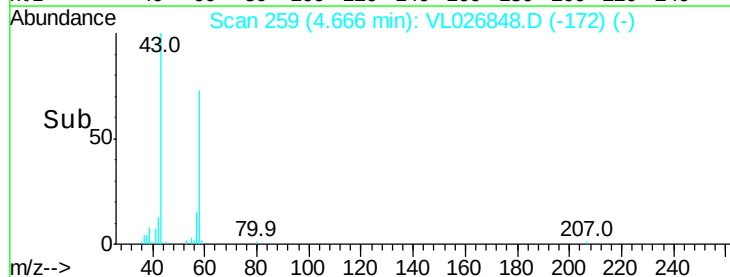
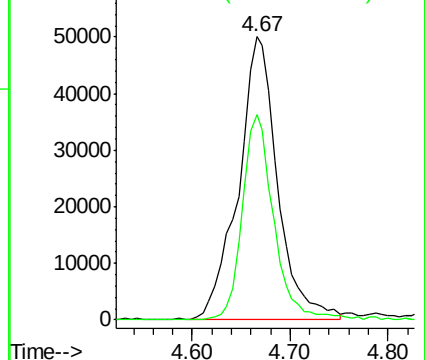
43 100

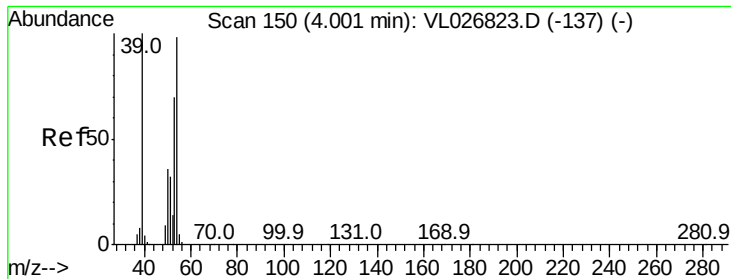
58 58.5 25.2 37.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.14 ppbv

RT: 4.03 min Scan# 155

Delta R.T. 0.03 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

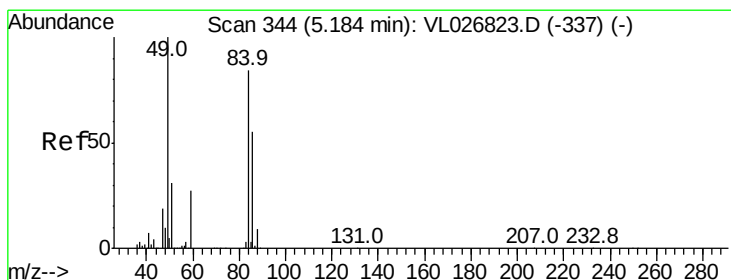
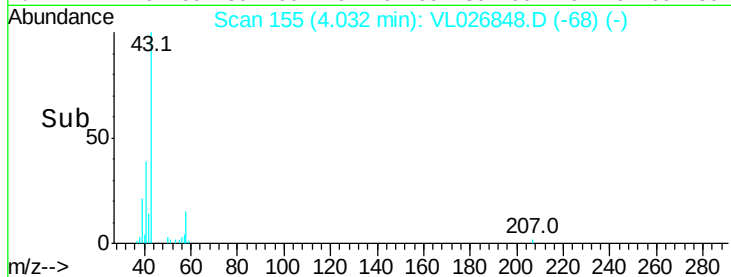
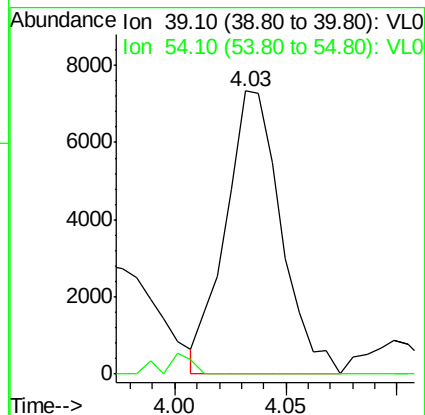
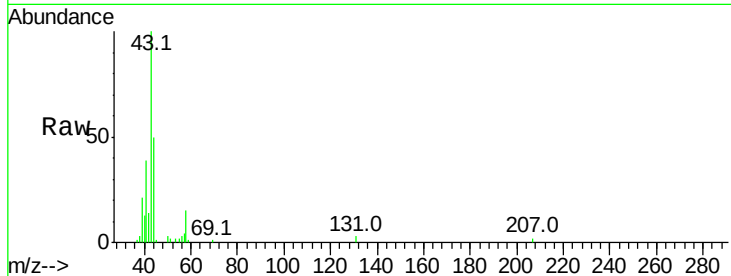
QA-1DL

Tgt Ion: 39 Resp: 12745

Ion Ratio Lower Upper

39 100

54 3.6 74.7 112.1#



#20

Methylene Chloride

Concen: 0.17 ppbv

RT: 5.19 min Scan# 345

Delta R.T. 0.01 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Tgt Ion: 84 Resp: 20674

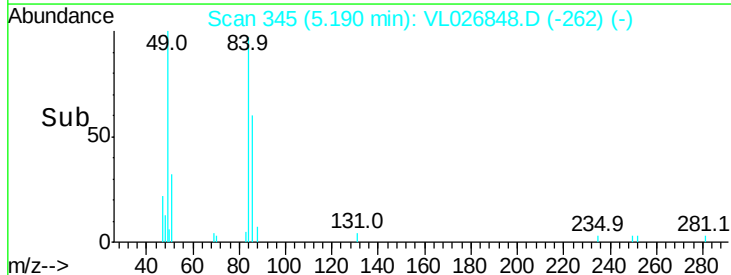
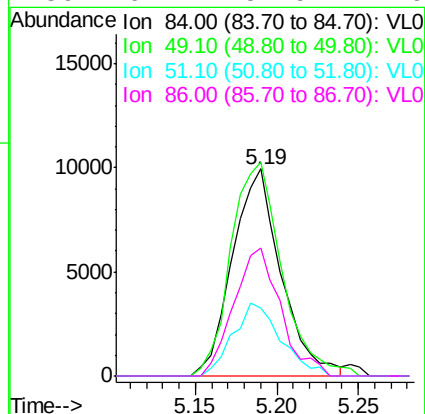
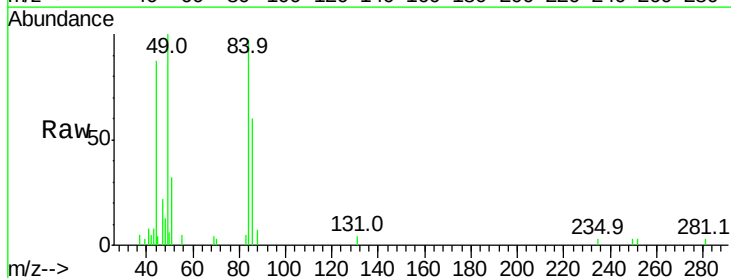
Ion Ratio Lower Upper

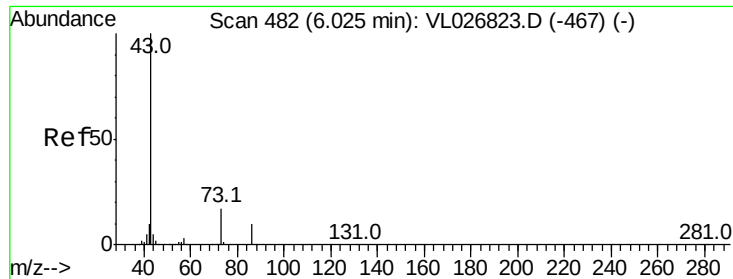
84 100

49 103.3 94.9 142.3

51 33.1 29.5 44.3

86 61.7 51.9 77.9





#23

Vinyl Acetate

Concen: 0.05 ppbv

RT: 6.04 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

OA-1DL

Tgt Ion: 43 Resp: 14640

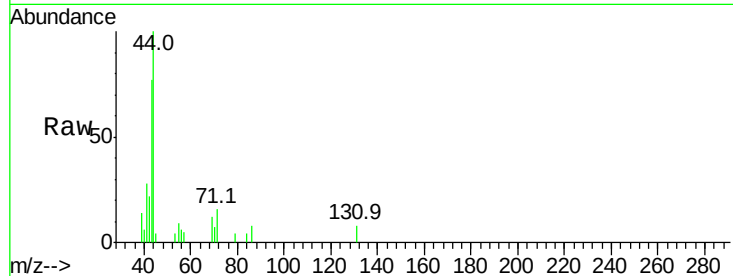
Ion Ratio Lower Upper

43 100

86 11.1 7.7 11.5

42 29.8 7.8 11.8#

44 16.3 3.9 5.9#

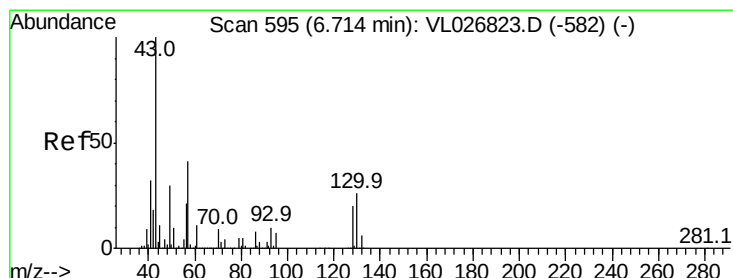
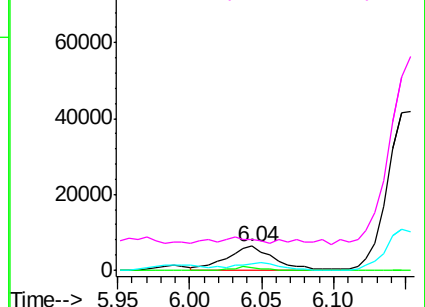
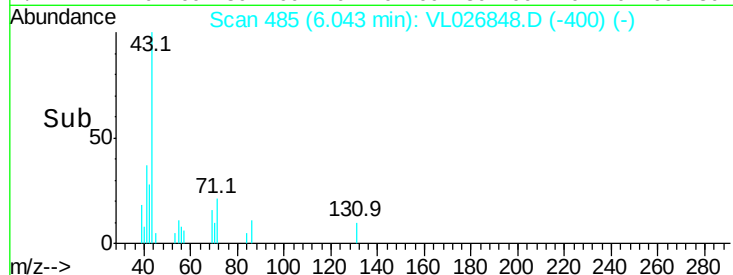


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.07 ppbv

RT: 6.70 min Scan# 592

Delta R.T. -0.02 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Tgt Ion: 43 Resp: 24115

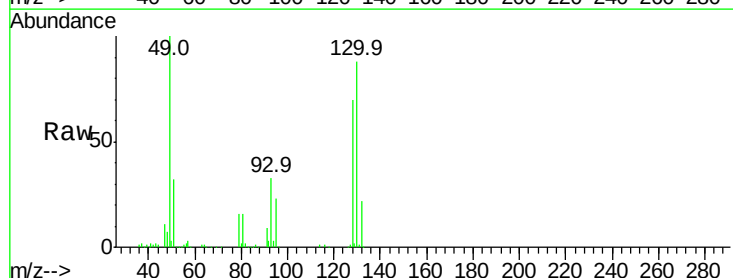
Ion Ratio Lower Upper

43 100

45 4.6 7.8 11.8#

61 0.0 7.9 11.9#

70 0.6 6.9 10.3#

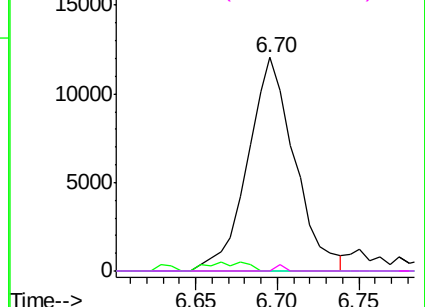
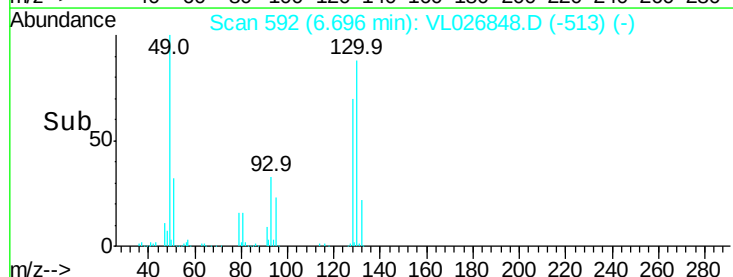


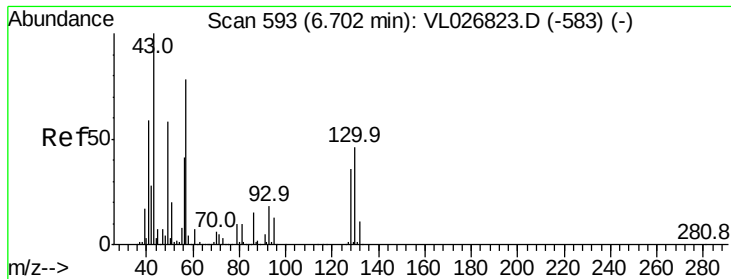
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.17 ppbv

RT: 6.70 min Scan# 592

Delta R.T. -0.01 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

QA-1DL

Tgt Ion: 57 Resp: 35041

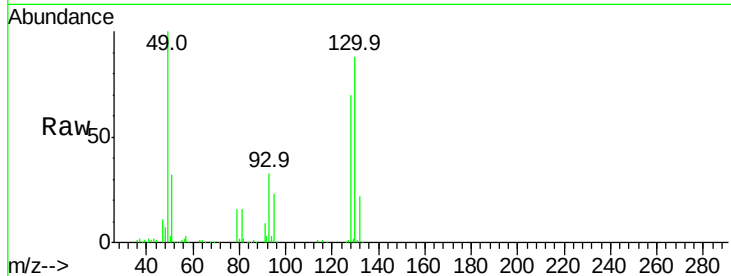
Ion Ratio Lower Upper

57 100

41 84.9 63.3 94.9

43 75.1 151.4 227.2#

56 59.2 42.2 63.2

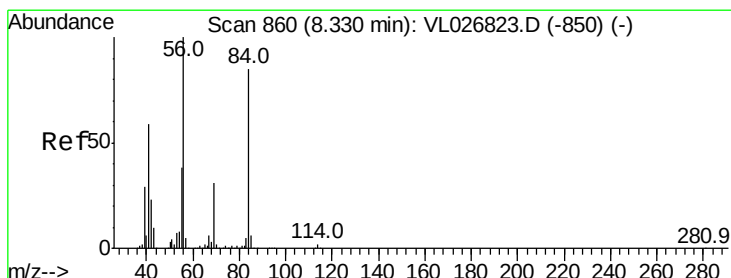
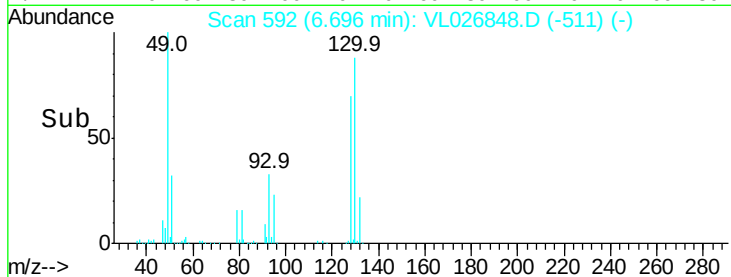
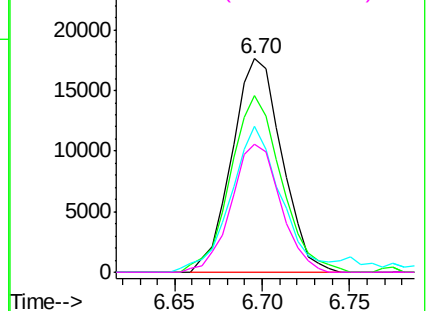


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30

Cyclohexane

Concen: 0.04 ppbv

RT: 8.34 min Scan# 862

Delta R.T. 0.01 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

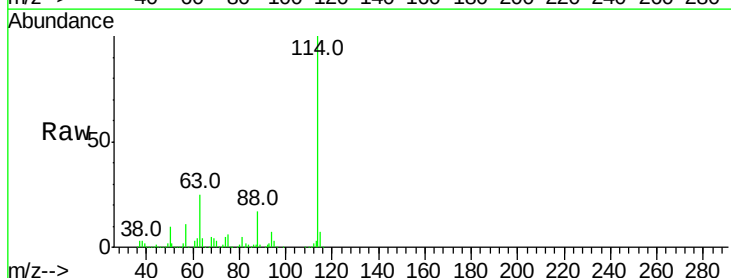
Tgt Ion: 84 Resp: 7028

Ion Ratio Lower Upper

84 100

56 0.0 99.4 149.2#

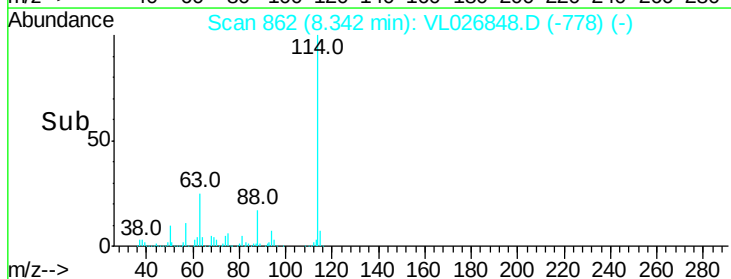
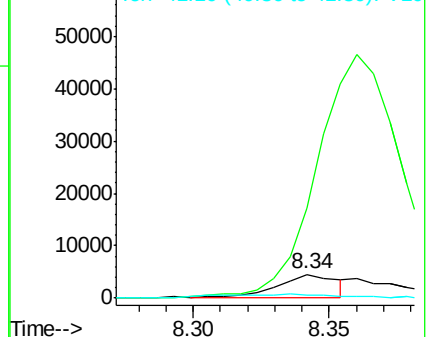
41 30.7 56.7 85.1#

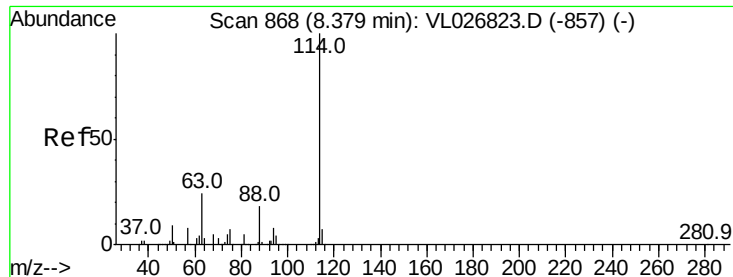


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

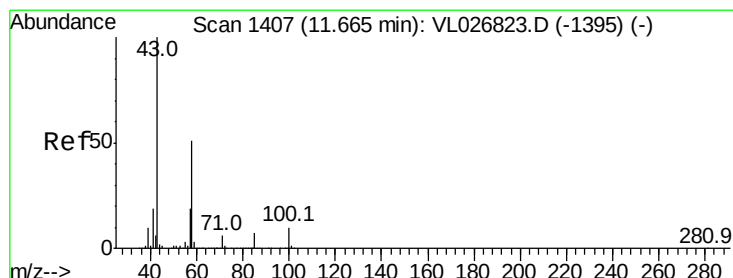
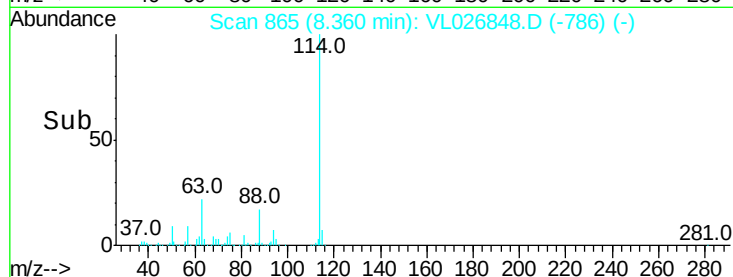
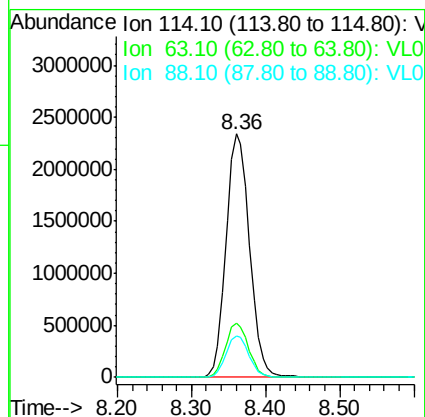
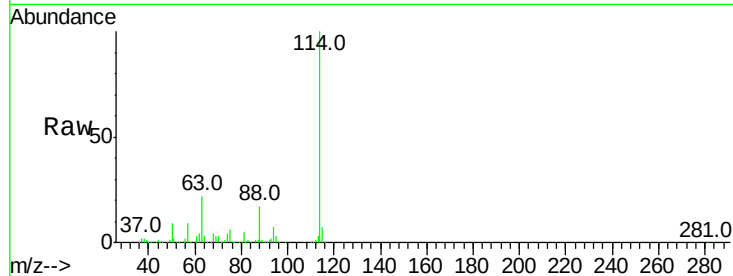




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.36 min Scan# 865
 Delta R.T. -0.02 min
 Lab File: VL026848.D
 Acq: 10 Feb 2016 10:12

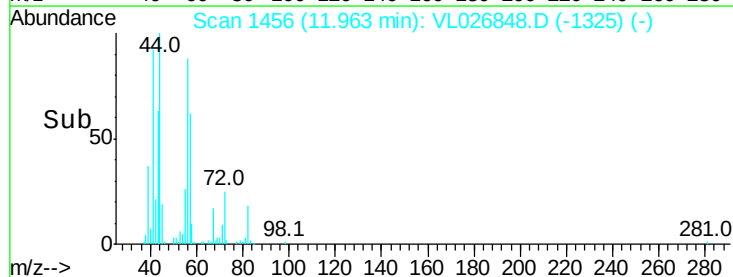
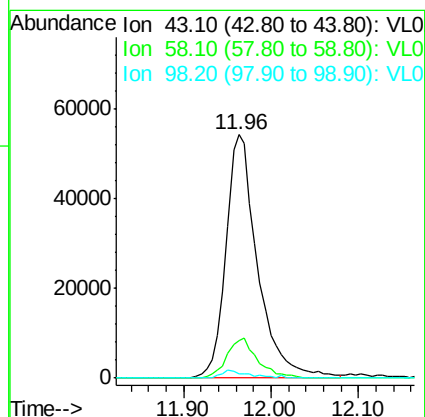
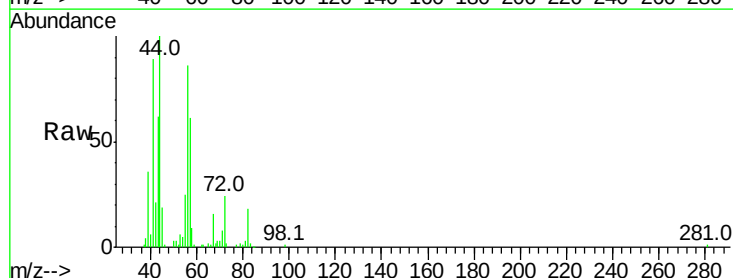
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DL

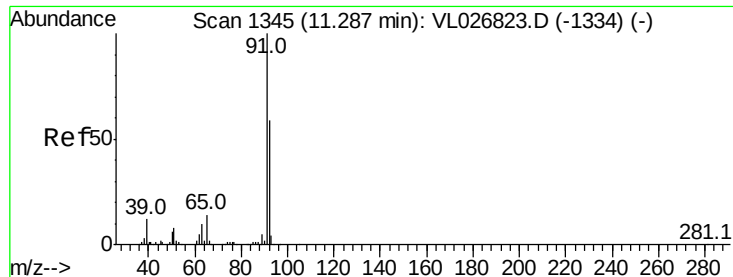
Tgt Ion:114 Resp: 5173973
 Ion Ratio Lower Upper
 114 100
 63 22.0 19.7 29.5
 88 16.6 13.8 20.6



#51
 2-Hexanone
 Concen: 0.54 ppbv
 RT: 11.96 min Scan# 1456
 Delta R.T. 0.30 min
 Lab File: VL026848.D
 Acq: 10 Feb 2016 10:12

Tgt Ion: 43 Resp: 136512
 Ion Ratio Lower Upper
 43 100
 58 0.0 40.4 60.6#
 98 2.8 0.2 0.4#





#53

Toluene

Concen: 0.09 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

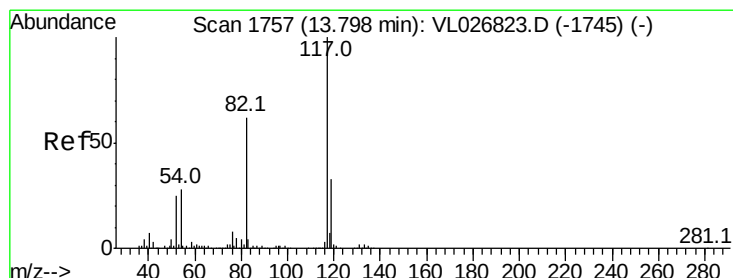
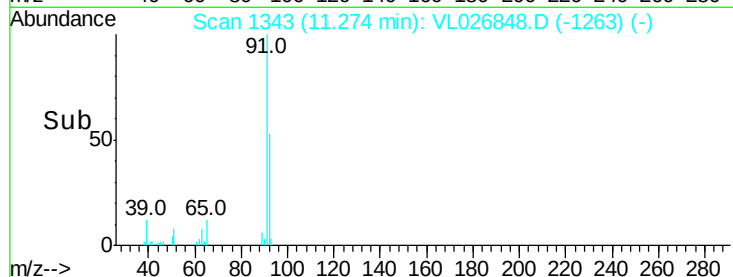
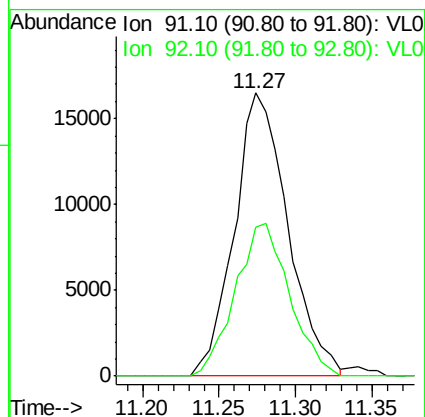
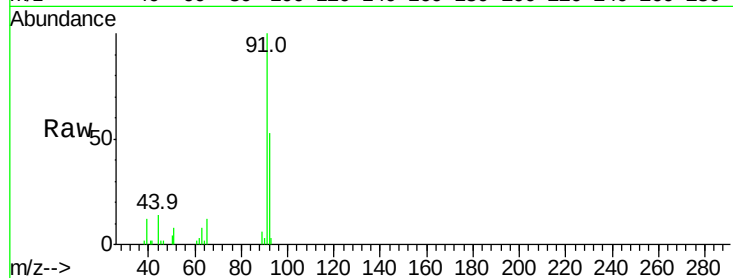
QA-1DL

Tgt Ion: 91 Resp: 40185

Ion Ratio Lower Upper

91 100

92 54.5 47.3 70.9



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

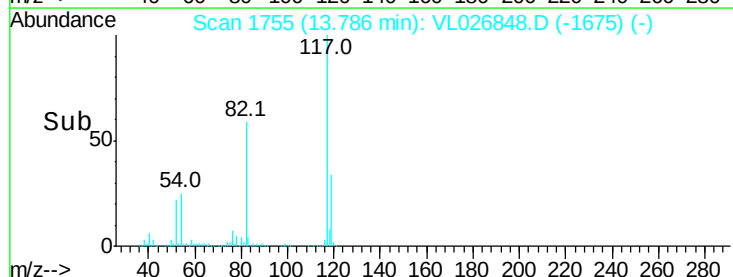
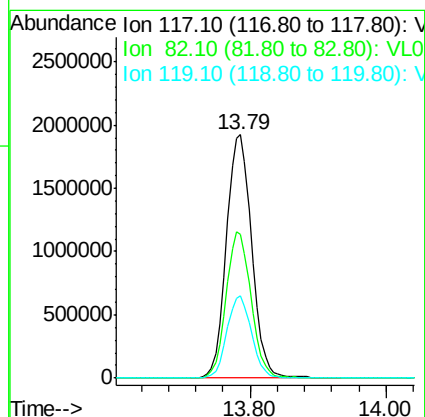
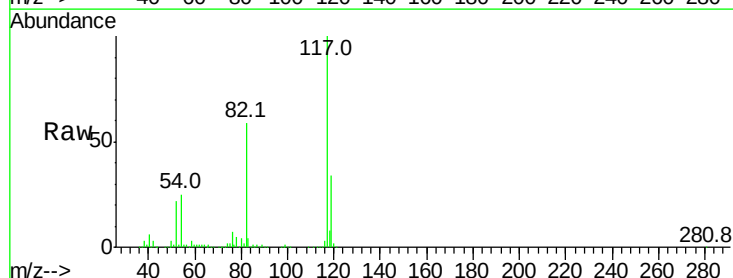
Tgt Ion: 117 Resp: 4966379

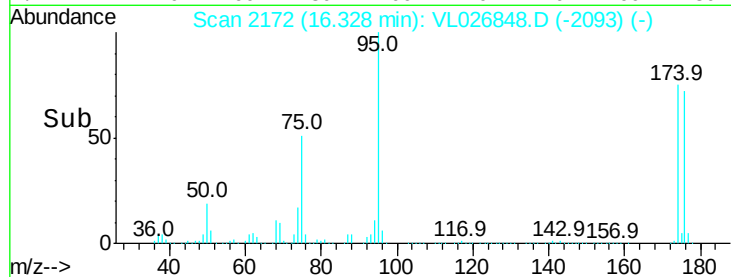
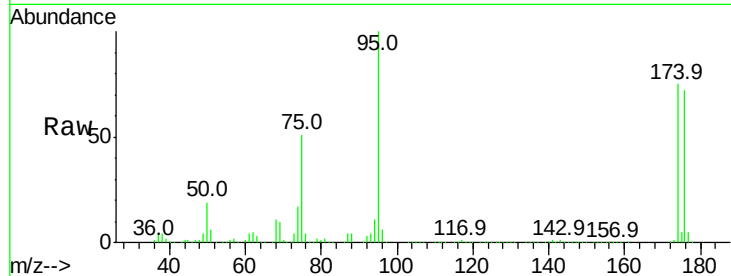
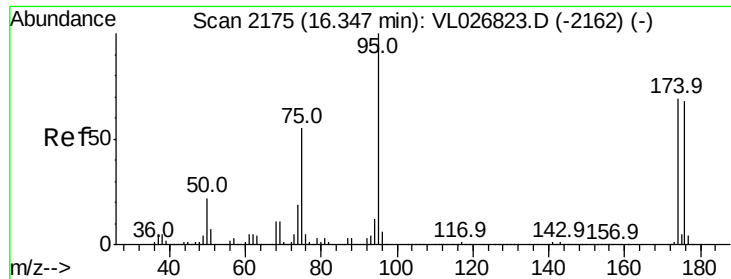
Ion Ratio Lower Upper

117 100

82 59.6 51.9 77.9

119 33.1 48.5 72.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.91 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. -0.02 min

Lab File: VL026848.D

Acq: 10 Feb 2016 10:12

Instrument :

MSVOA_L

ClientSampleId :

QA-1DL

Tgt Ion: 95 Resp: 3534028

Ion Ratio Lower Upper

95 100

174 74.8 55.6 83.4

175 5.2 3.9 5.9

