

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121318\
 Data File : VL032991.D
 Acq On : 13 Dec 2018 20:13
 Operator : SY/AP
 Sample : J6382-06 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 P0068-SG001-181212-01DL

Quant Time: Dec 14 01:09:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1171588	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2842993	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3047814	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2417911	10.74	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.40%

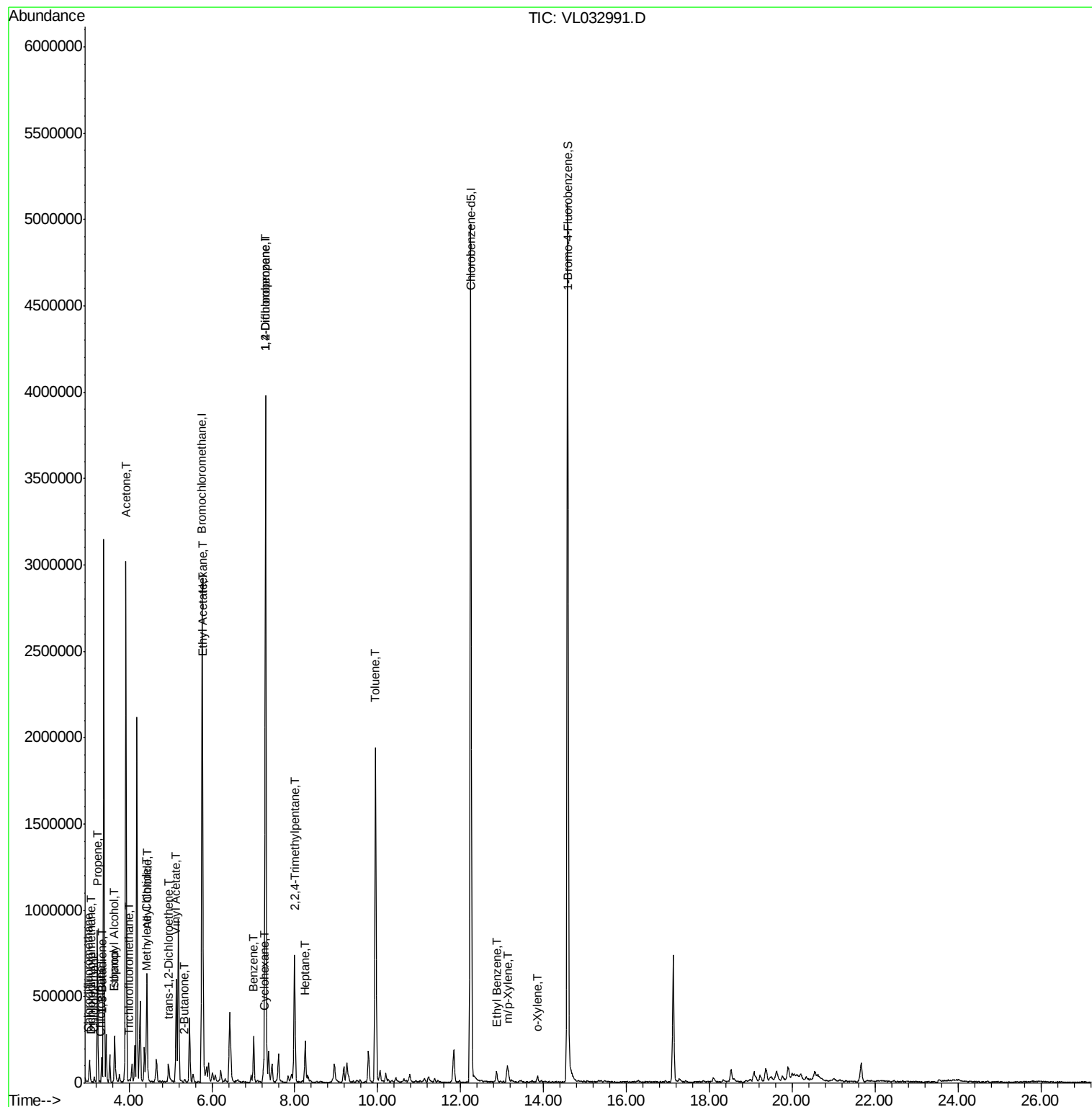
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	9782	0.063	ppbv #	86
3) Chlorodifluoromethane	3.02	51	5192	0.059	ppbv #	88
4) Chloromethane	3.17	50	11602	0.225	ppbv	91
7) Chloroethane	3.30	64	571	0.030	ppbv #	41
9) Propene	3.24	41	249410	7.109	ppbv	86
10) Heptane	8.25	43	33919	0.257	ppbv #	1
11) Trichlorofluoromethane	4.00	101	5092	0.035	ppbv	99
13) Ethanol	3.65	45	291296	24.114	ppbv	97
15) Acetone	3.93	43	1145216	11.388	ppbv #	64
16) 1,3-Butadiene	3.34	39	43364	1.087	ppbv #	4
19) Isopropyl Alcohol	3.65	45	291296	4.613	ppbv #	95
20) Methylene Chloride	4.41	84	52014	1.058	ppbv	89
21) Allyl Chloride	4.43	41	86896	1.060	ppbv #	44
22) trans-1,2-Dichloroethene	4.97	96	12782	0.209	ppbv #	75
23) Vinyl Acetate	5.14	43	213537	1.254	ppbv #	1
25) Ethyl Acetate	5.78	43	170286	0.717	ppbv #	80
26) Hexane	5.78	57	238894	2.178	ppbv #	42
30) Cyclohexane	7.25	84	20215	0.222	ppbv #	8
34) 2-Butanone	5.34	43	15236	0.123	ppbv #	84
36) Benzene	7.01	78	213529	1.021	ppbv	97
39) 1,2-Dichloropropane	7.29	63	704718	8.886	ppbv #	21
44) 2,2,4-Trimethylpentane	7.99	57	628396	1.770	ppbv	93
53) Toluene	9.95	91	1327530	5.986	ppbv	100
58) Ethyl Benzene	12.87	91	47401	0.146	ppbv	90
59) m/p-Xylene	13.14	91	18668	0.063	ppbv #	100
60) o-Xylene	13.85	91	17291	0.058	ppbv #	32

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

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

P0068-SG001-181212-01DL

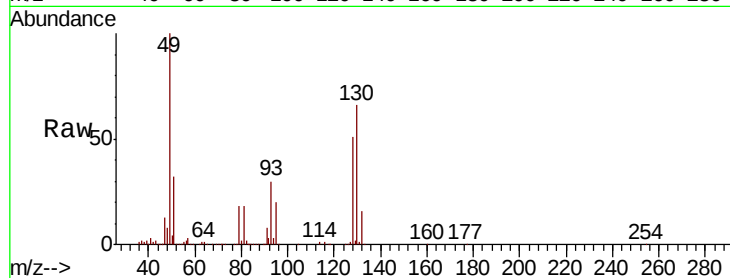
Tgt Ion: 49 Resp: 1171588

Ion Ratio Lower Upper

49 100

128 52.2 26.3 78.8

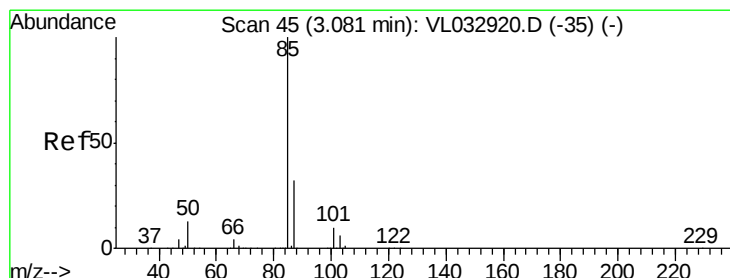
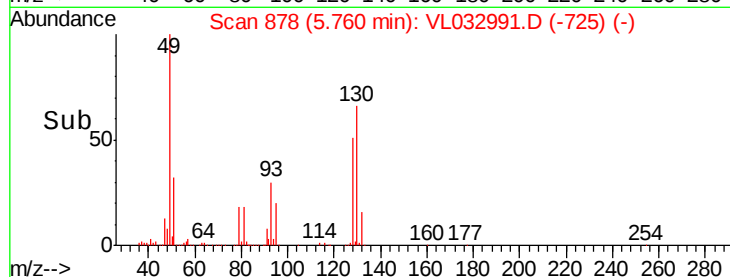
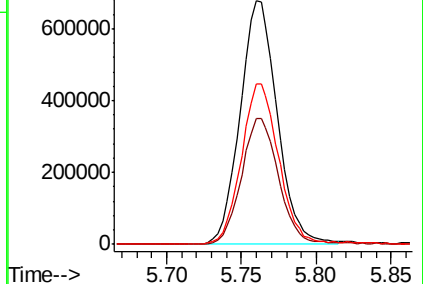
130 66.9 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032991.D

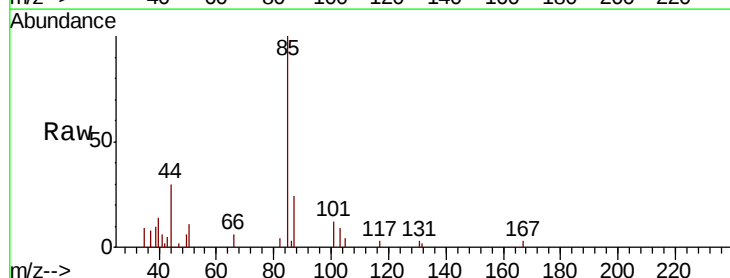
Acq: 13 Dec 2018 20:13

Tgt Ion: 85 Resp: 9782

Ion Ratio Lower Upper

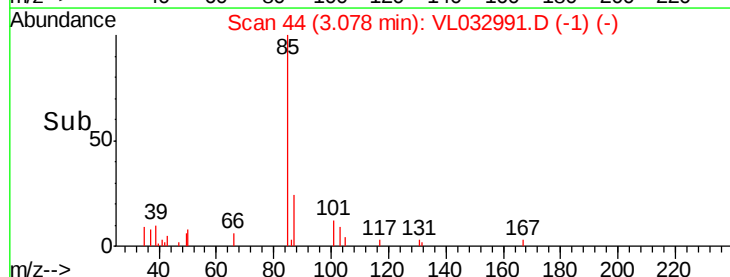
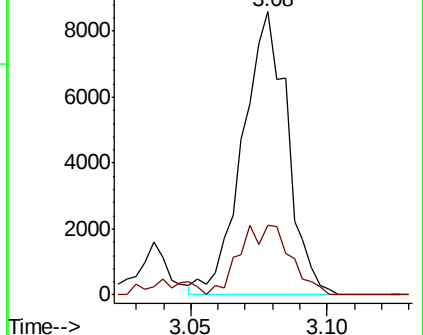
85 100

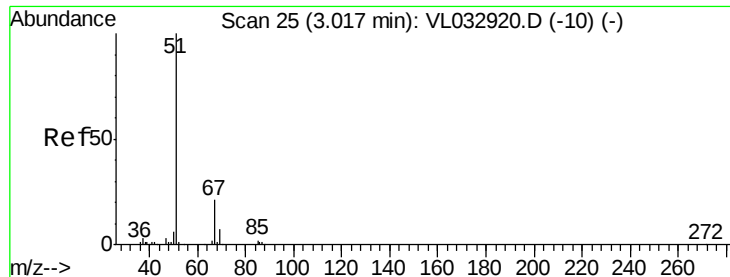
87 24.5 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

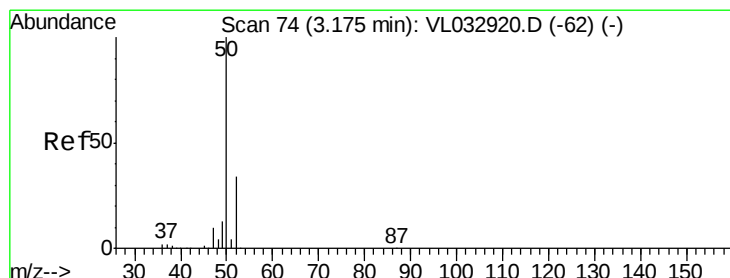
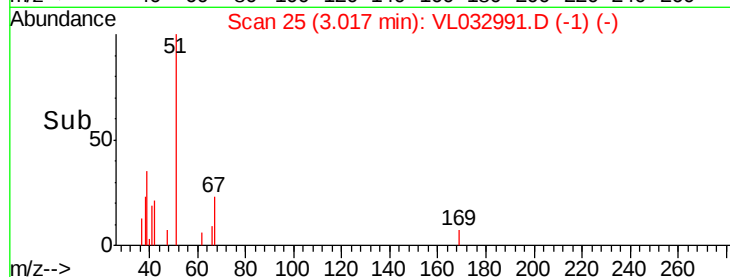
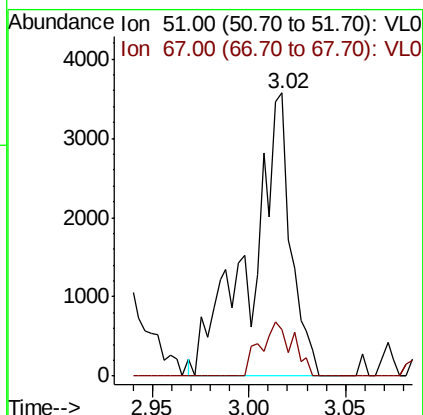
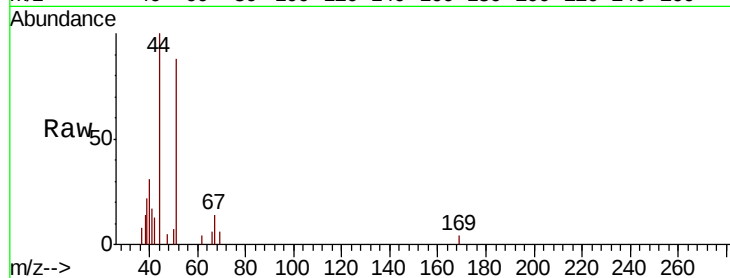




#3
Chlorodifluoromethane
Concen: 0.059 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

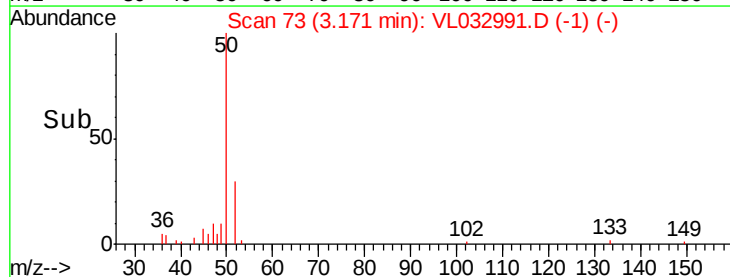
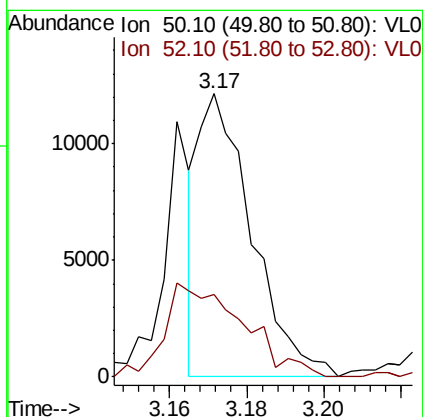
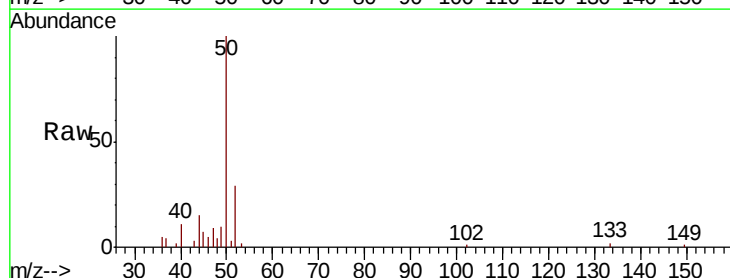
Instrument :
MSVOA_L
ClientSampleId :
P0068-SG001-181212-01DL

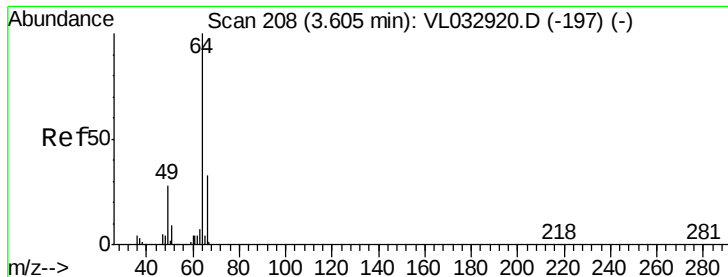
Tgt Ion: 51 Resp: 5192
Ion Ratio Lower Upper
51 100
67 15.5 16.8 25.2#



#4
Chloromethane
Concen: 0.225 ppbv
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

Tgt Ion: 50 Resp: 11602
Ion Ratio Lower Upper
50 100
52 29.1 27.3 40.9





#7

Chloroethane

Concen: 0.030 ppbv

RT: 3.30 min Scan# 113

Delta R.T. -0.31 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

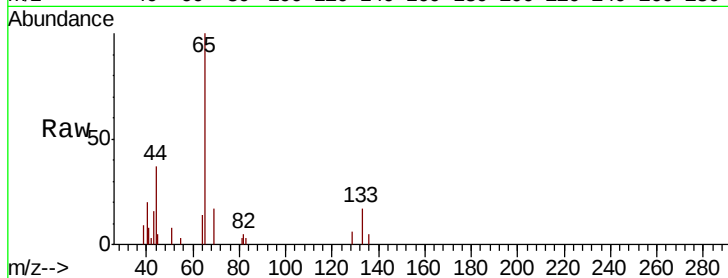
P0068-SG001-181212-01DL

Tgt Ion: 64 Resp: 571

Ion Ratio Lower Upper

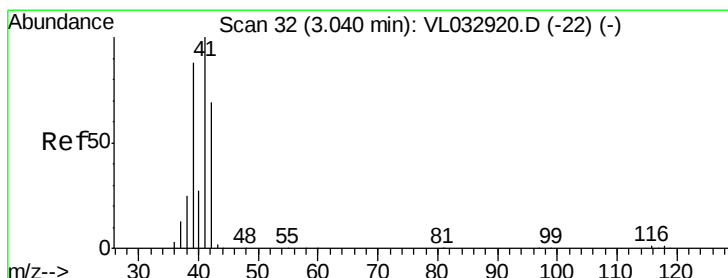
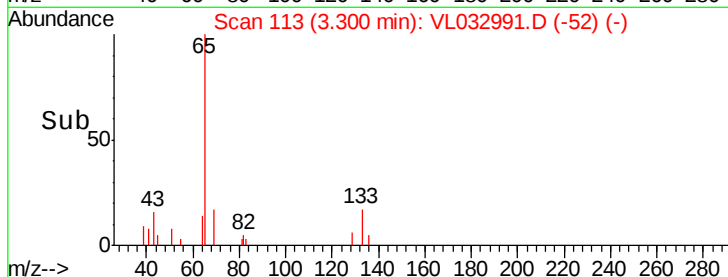
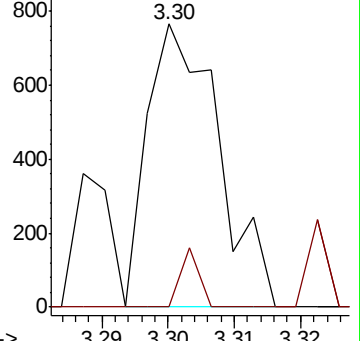
64 100

66 0.0 26.6 40.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 7.109 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL032991.D

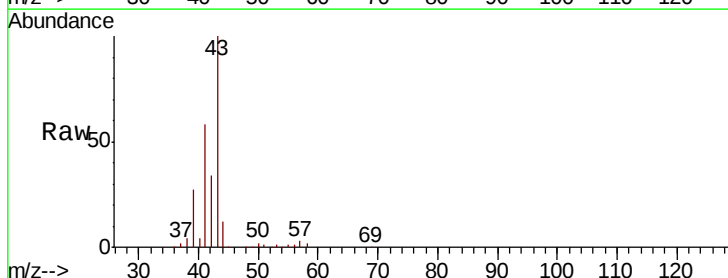
Acq: 13 Dec 2018 20:13

Tgt Ion: 41 Resp: 249410

Ion Ratio Lower Upper

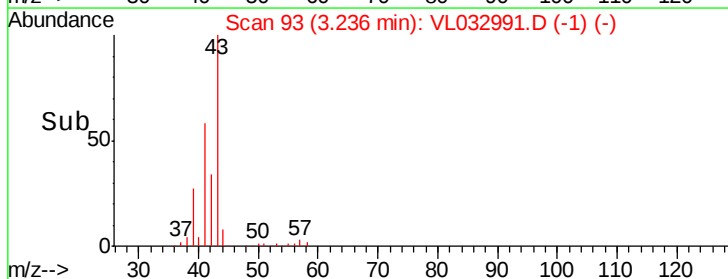
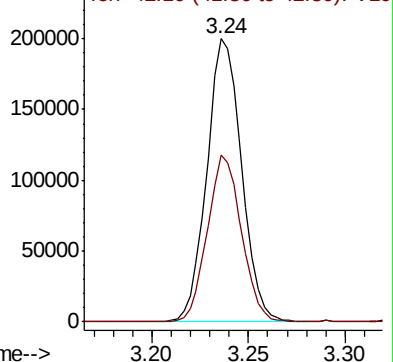
41 100

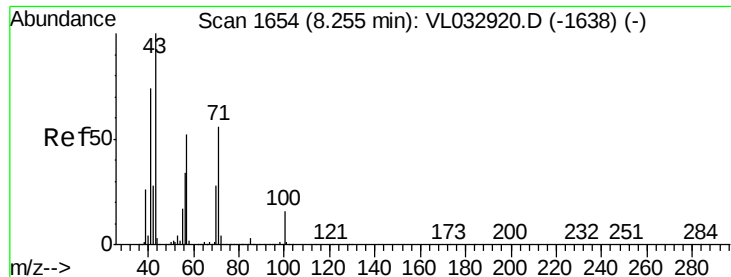
42 58.3 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.257 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

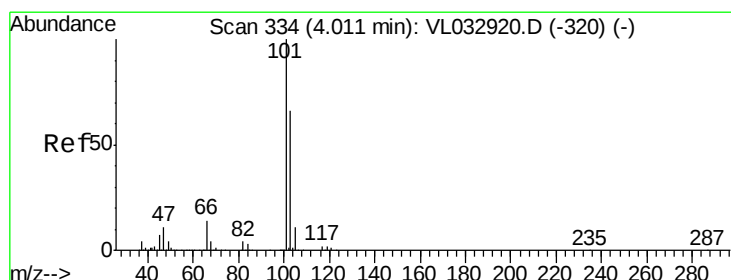
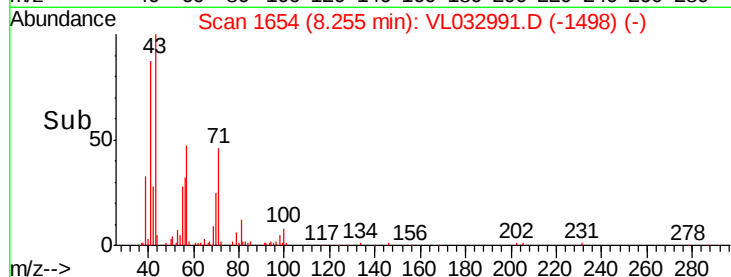
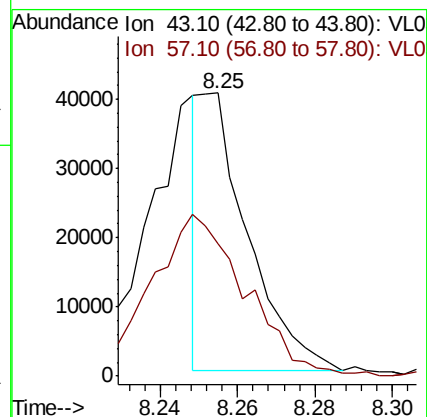
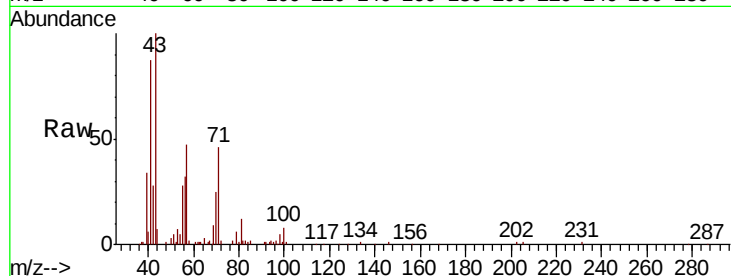
P0068-SG001-181212-01DL

Tgt Ion: 43 Resp: 33919

Ion Ratio Lower Upper

43 100

57 123.1 41.8 62.6#



#11

Trichlorofluoromethane

Concen: 0.035 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.01 min

Lab File: VL032991.D

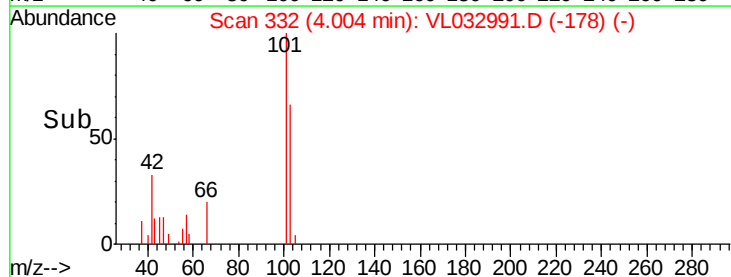
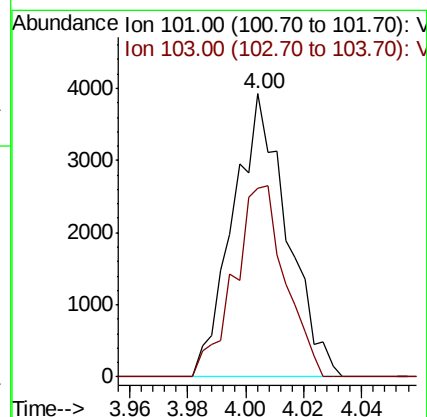
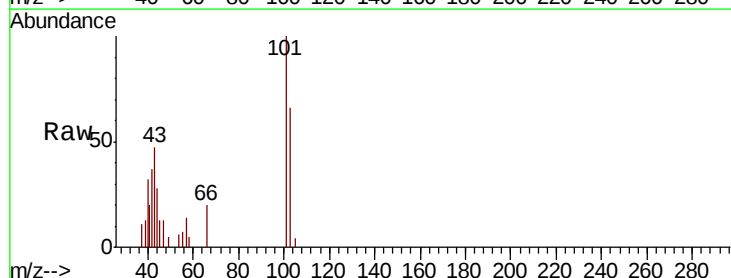
Acq: 13 Dec 2018 20:13

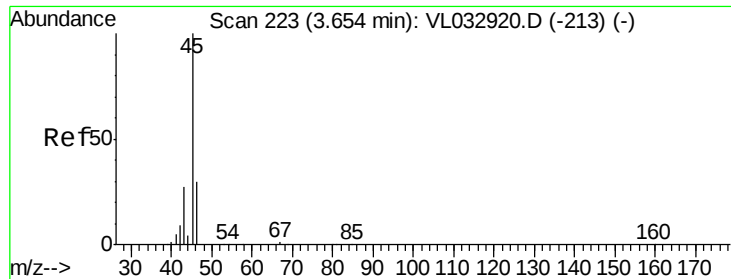
Tgt Ion: 101 Resp: 5092

Ion Ratio Lower Upper

101 100

103 66.4 52.7 79.1





#13

Ethanol

Concen: 24.114 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

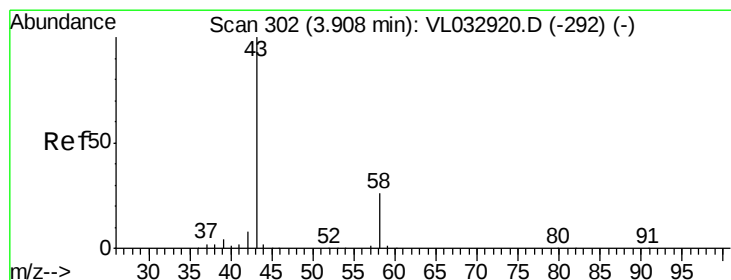
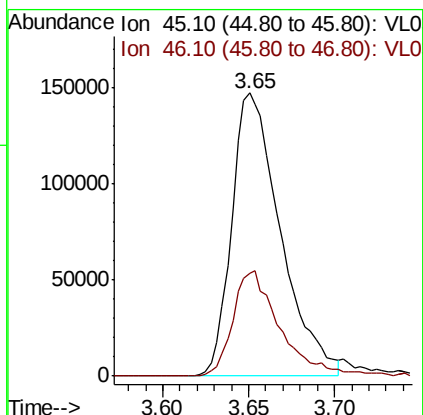
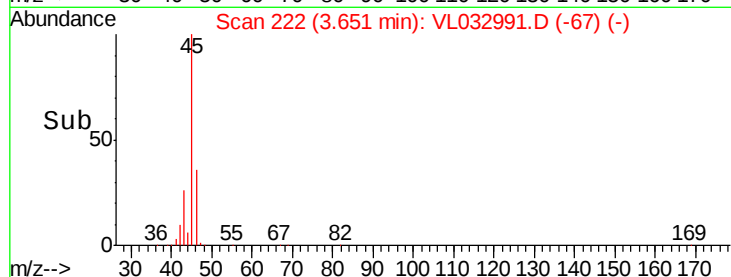
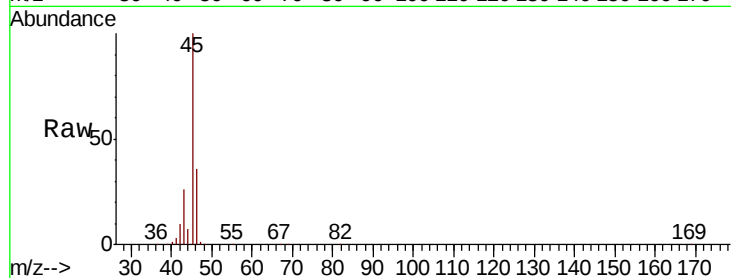
P0068-SG001-181212-01DL

Tgt Ion: 45 Resp: 291296

Ion Ratio Lower Upper

45 100

46 36.5 13.8 55.4



#15

Acetone

Concen: 11.388 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL032991.D

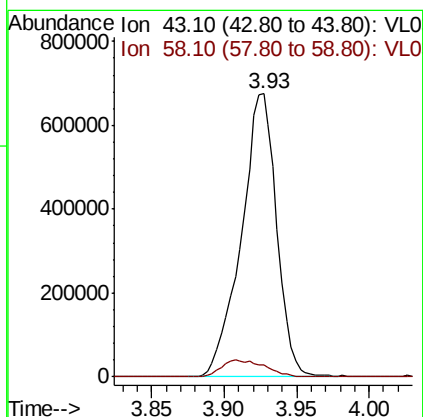
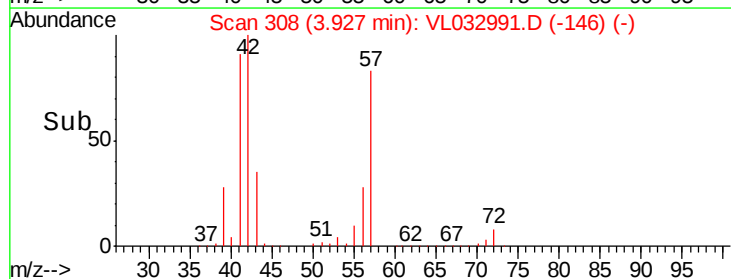
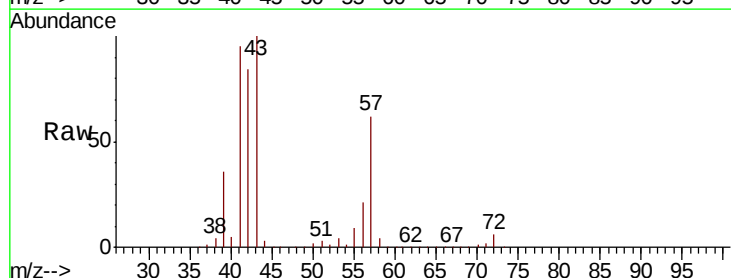
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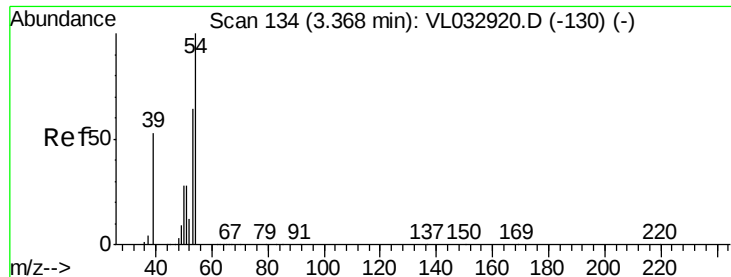
Tgt Ion: 43 Resp: 1145216

Ion Ratio Lower Upper

43 100

58 7.3 20.6 30.8#

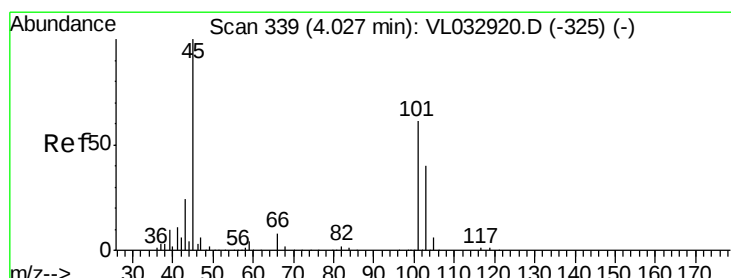
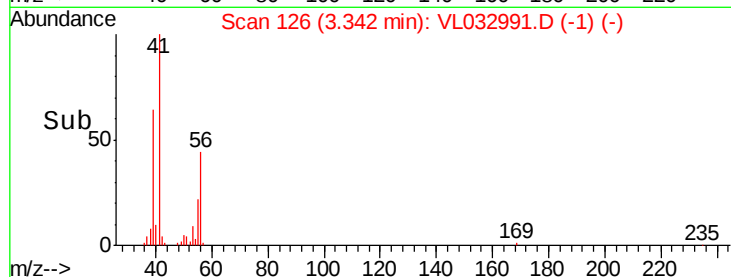
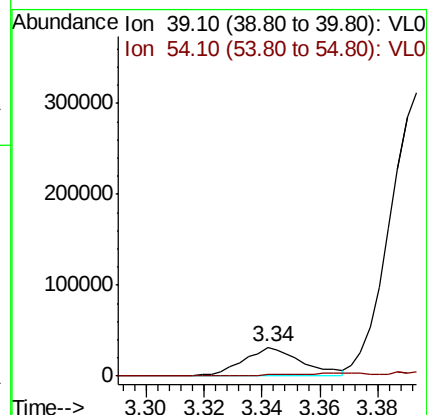
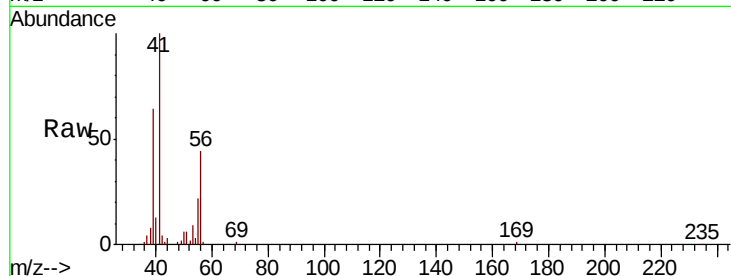




#16
 1,3-Butadiene
 Concen: 1.087 ppbv
 RT: 3.34 min Scan# 126
 Delta R.T. -0.03 min
 Lab File: VL032991.D
 Acq: 13 Dec 2018 20:13

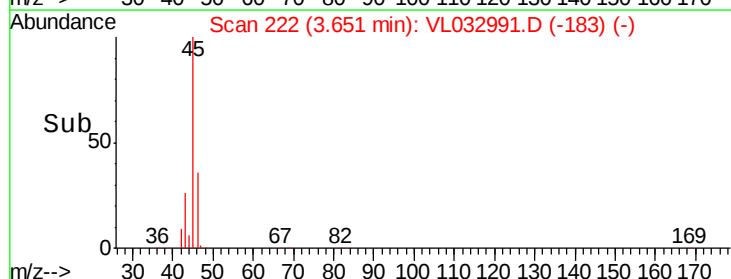
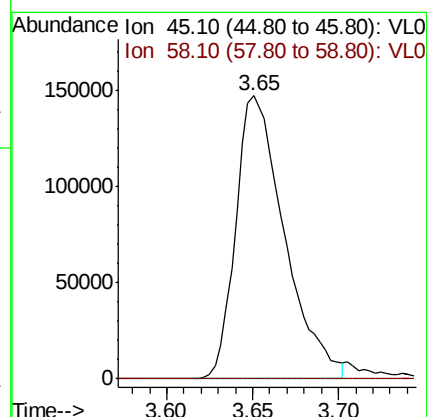
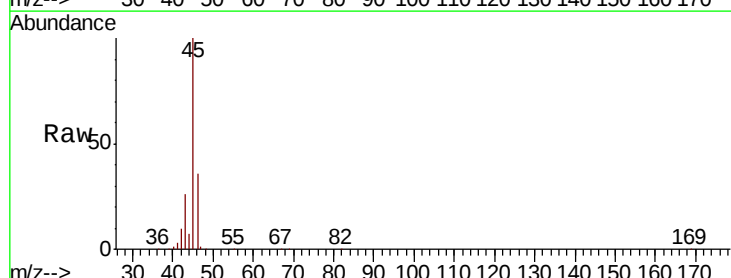
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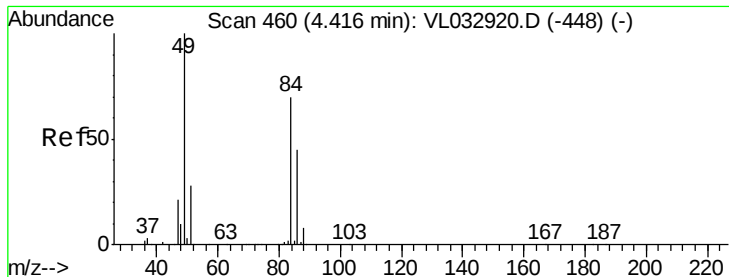
Tgt Ion: 39 Resp: 43364
 Ion Ratio Lower Upper
 39 100
 54 0.0 72.7 109.1#



#19
 Isopropyl Alcohol
 Concen: 4.613 ppbv
 RT: 3.65 min Scan# 222
 Delta R.T. -0.38 min
 Lab File: VL032991.D
 Acq: 13 Dec 2018 20:13

Tgt Ion: 45 Resp: 291296
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#





#20

Methylene Chloride

Concen: 1.058 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

P0068-SG001-181212-01DL

Tgt Ion: 84 Resp: 52014

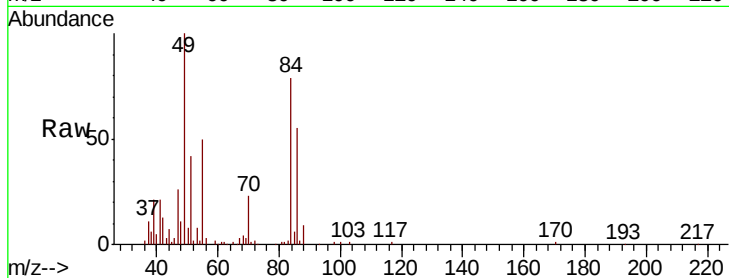
Ion Ratio Lower Upper

84 100

49 124.9 113.8 170.8

51 43.6 31.8 47.8

86 69.1 50.8 76.2

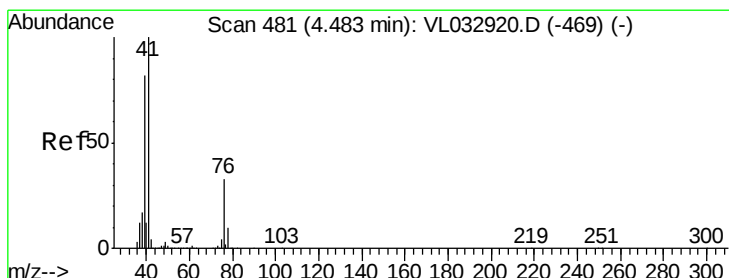
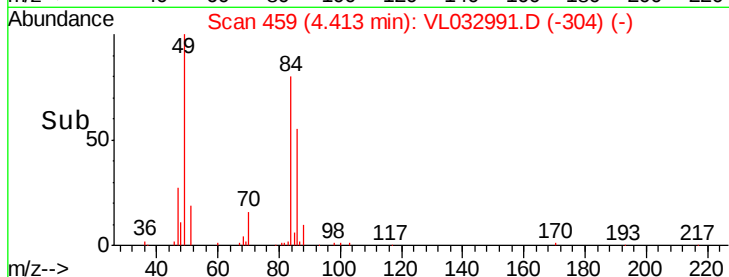
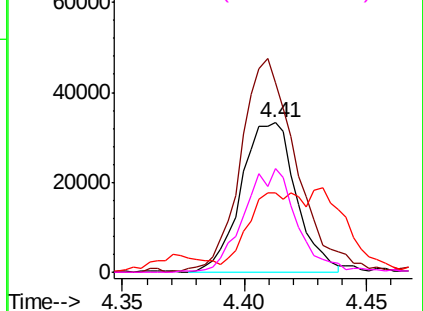


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 1.060 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.05 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

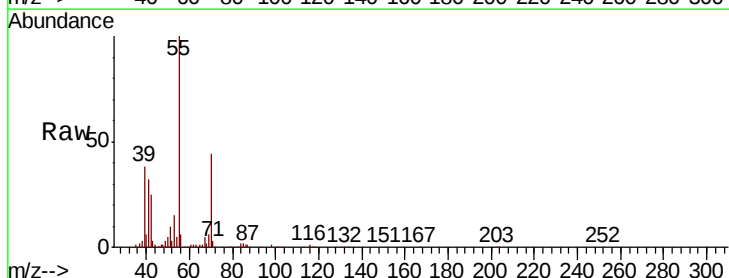
Tgt Ion: 41 Resp: 86896

Ion Ratio Lower Upper

41 100

76 0.0 25.2 37.8#

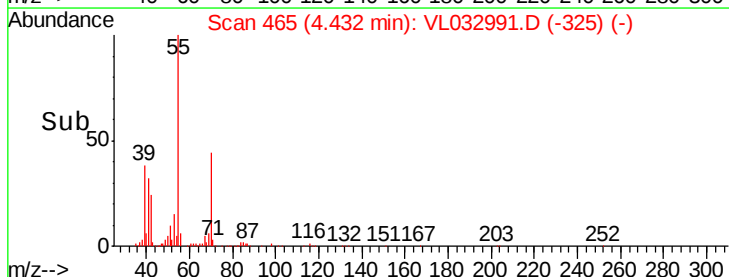
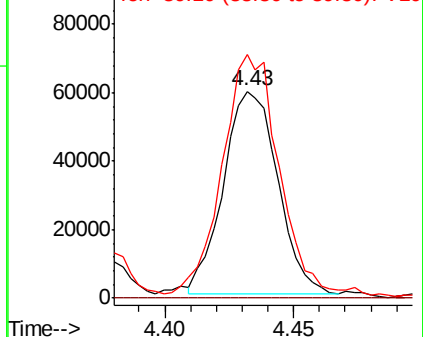
39 131.0 65.2 97.8#

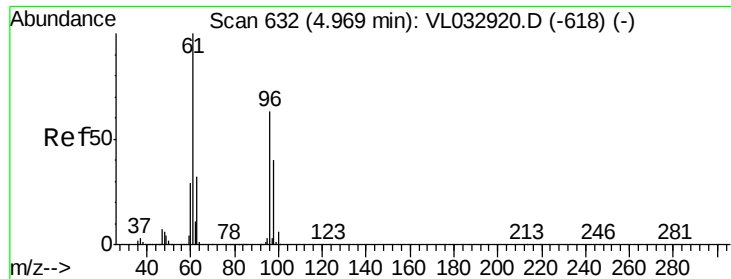


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.209 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

P0068-SG001-181212-01DL

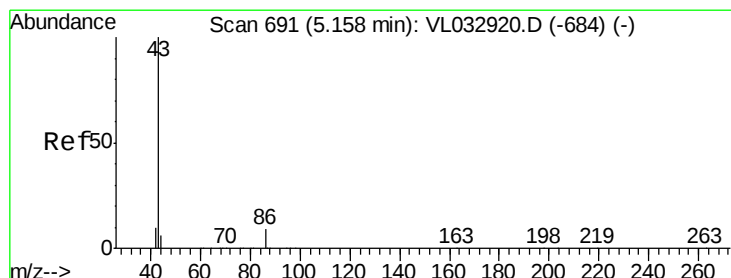
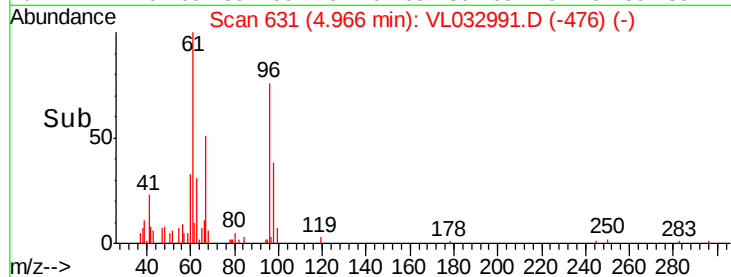
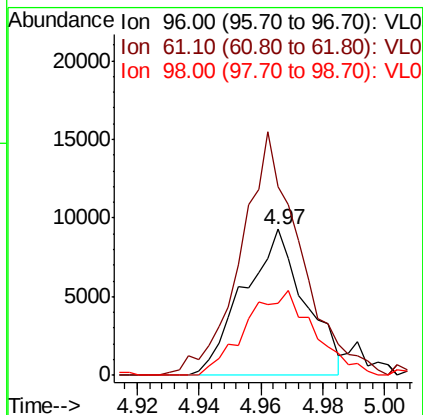
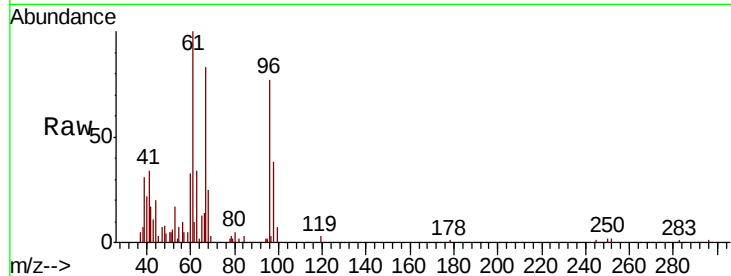
Tgt Ion: 96 Resp: 12782

Ion Ratio Lower Upper

96 100

61 124.3 127.1 190.7#

98 48.1 51.3 76.9#



#23

Vinyl Acetate

Concen: 1.254 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Tgt Ion: 43 Resp: 213537

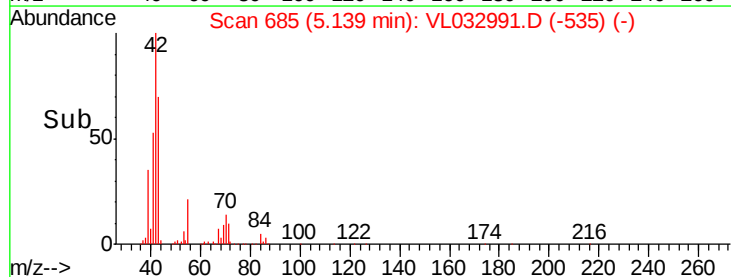
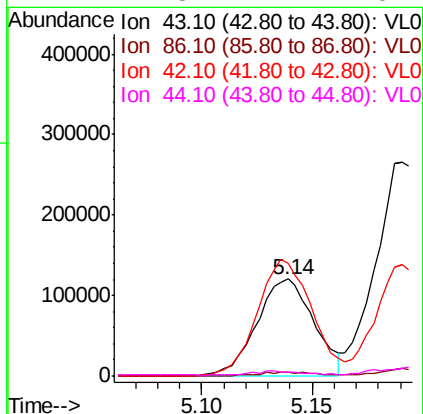
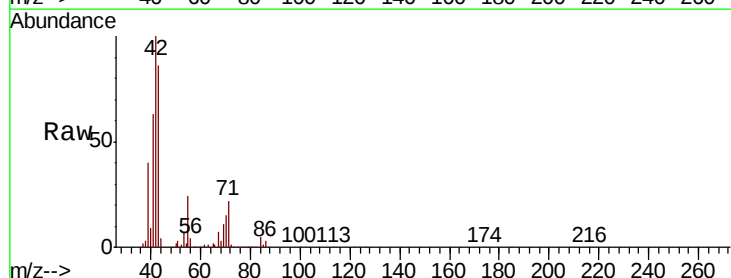
Ion Ratio Lower Upper

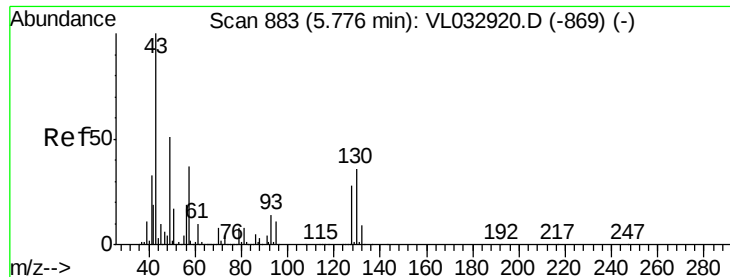
43 100

86 3.9 6.6 9.8#

42 116.1 8.3 12.5#

44 2.8 4.2 6.4#

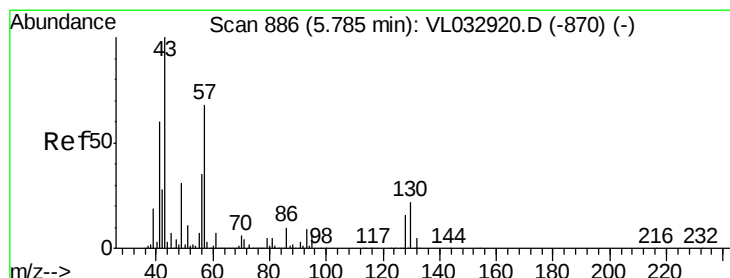
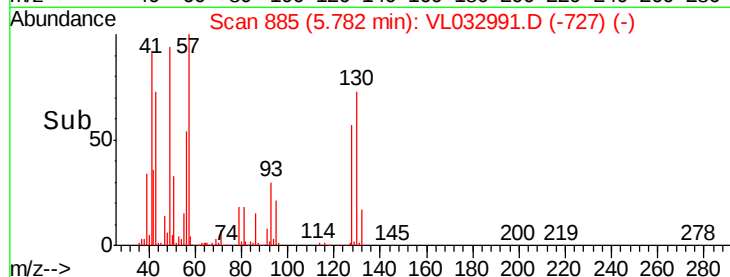
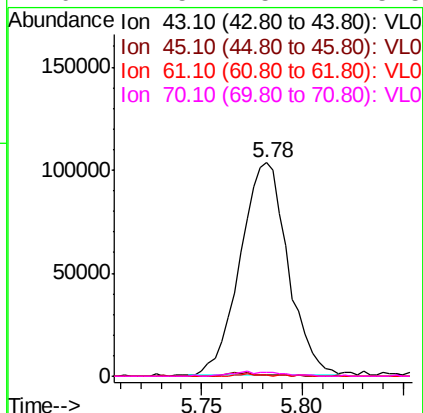
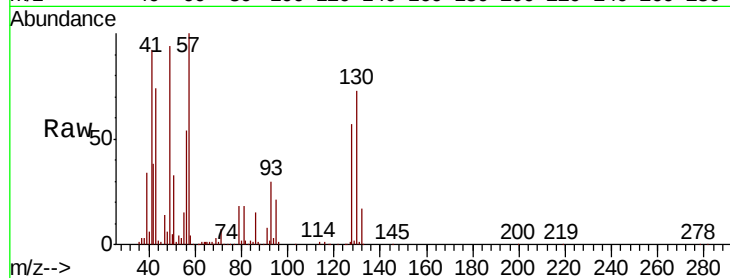




#25
Ethyl Acetate
Concen: 0.717 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

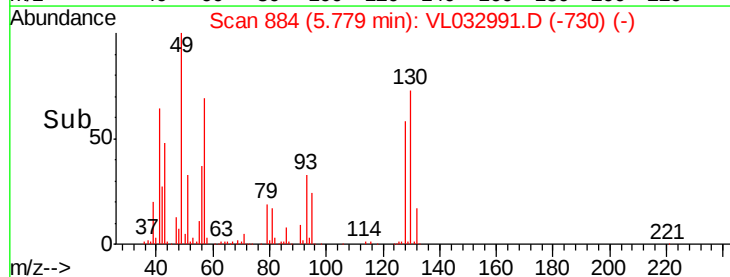
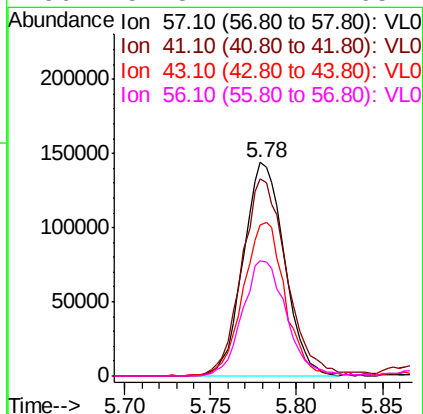
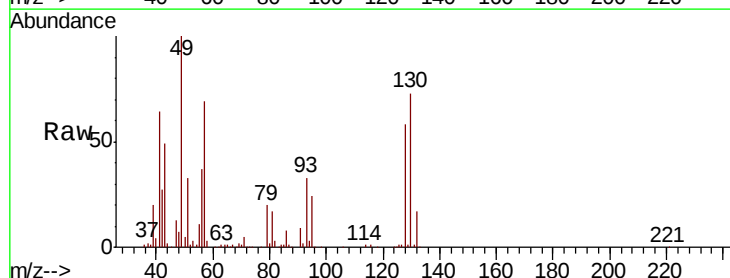
Instrument :
MSVOA_L
ClientSampleId :
P0068-SG001-181212-01DL

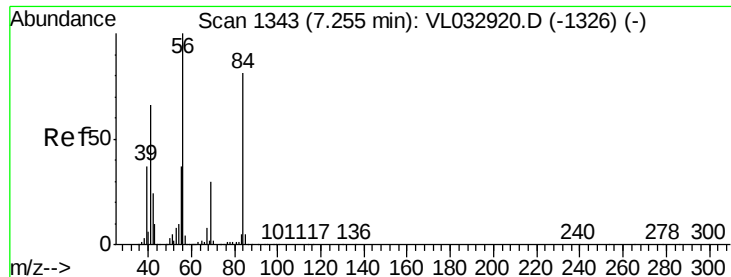
Tgt Ion:	43	Resp:	170286
Ion	Ratio	Lower	Upper
43	100		
45	1.5	7.8	11.6#
61	0.8	7.4	11.2#
70	2.5	5.7	8.5#



#26
Hexane
Concen: 2.178 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

Tgt Ion:	57	Resp:	238894
Ion	Ratio	Lower	Upper
57	100		
41	101.5	72.2	108.2
43	73.2	171.9	257.9#
56	57.8	42.2	63.2

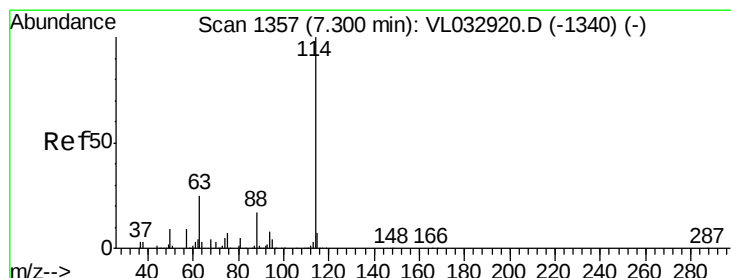
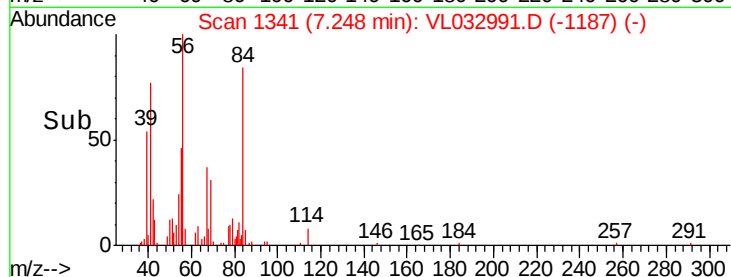
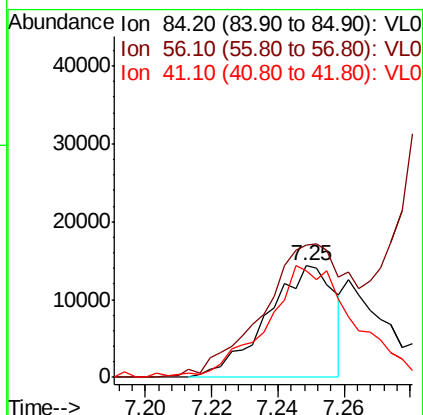
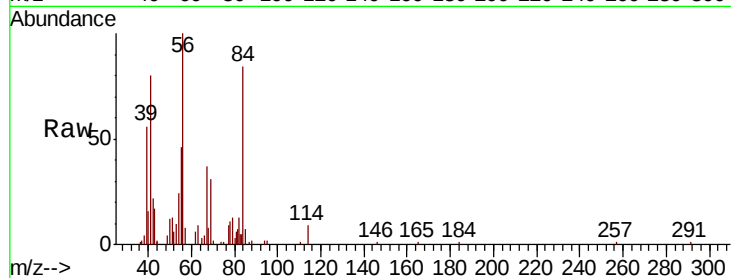




#30
Cyclohexane
Concen: 0.222 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

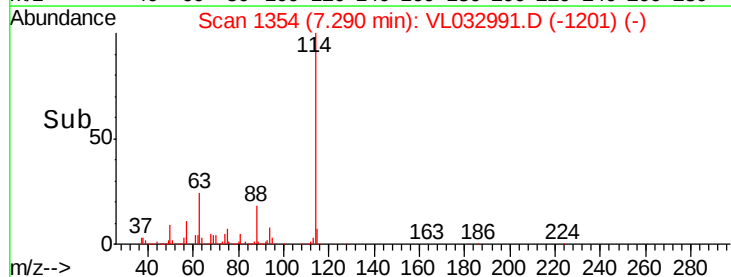
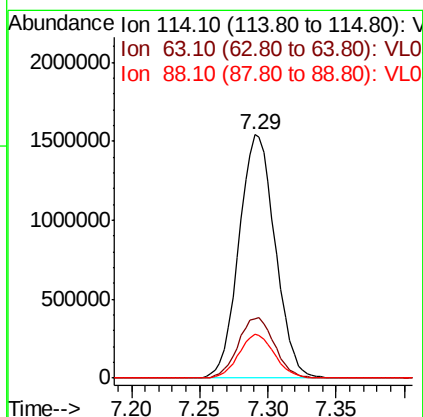
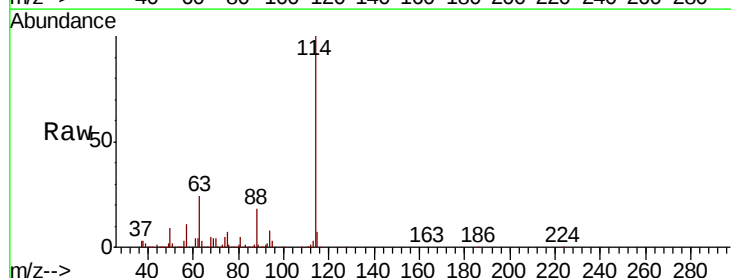
Instrument :
MSVOA_L
ClientSampleId :
P0068-SG001-181212-01DL

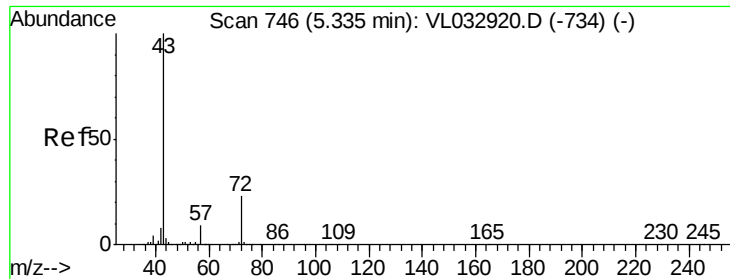
Tgt Ion: 84 Resp: 20215
Ion Ratio Lower Upper
84 100
56 0.0 102.5 153.7#
41 135.5 64.1 96.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

Tgt Ion: 114 Resp: 2842993
Ion Ratio Lower Upper
114 100
63 25.0 20.1 30.1
88 17.9 14.2 21.4

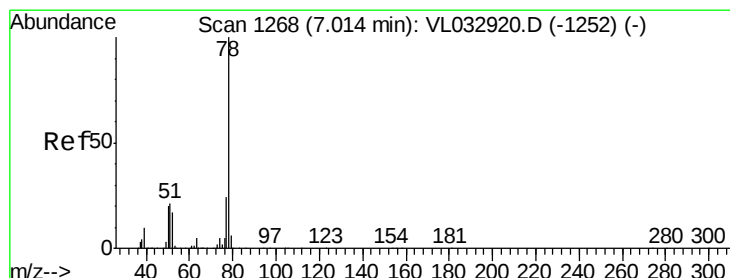
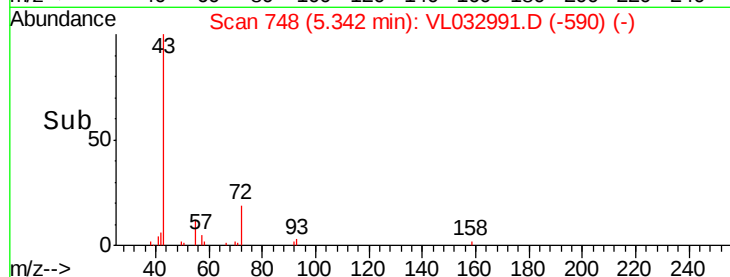
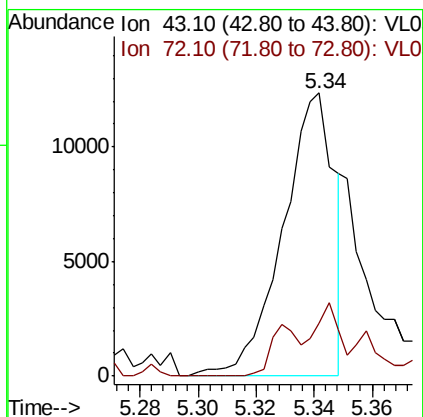
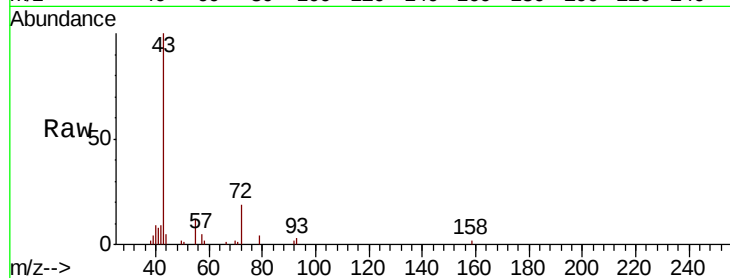




#34
 2-Butanone
 Concen: 0.123 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL032991.D
 Acq: 13 Dec 2018 20:13

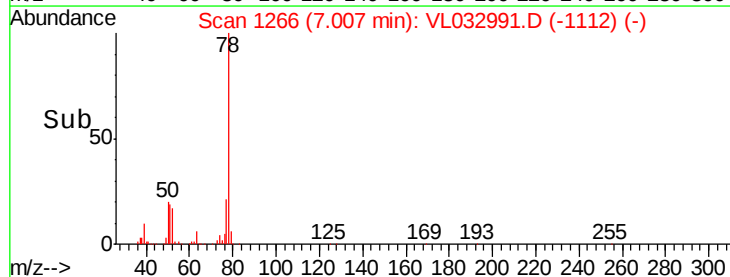
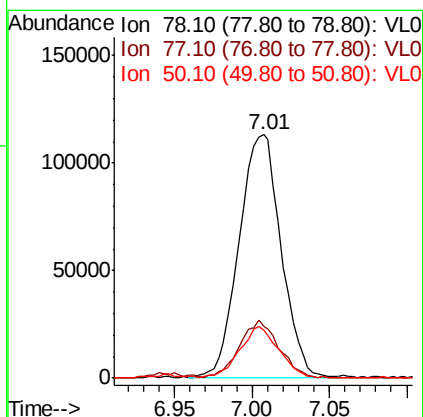
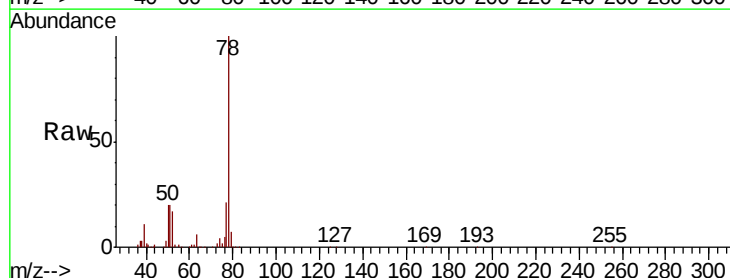
Instrument :
 MSVOA_L
 ClientSampleId :
 P0068-SG001-181212-01DL

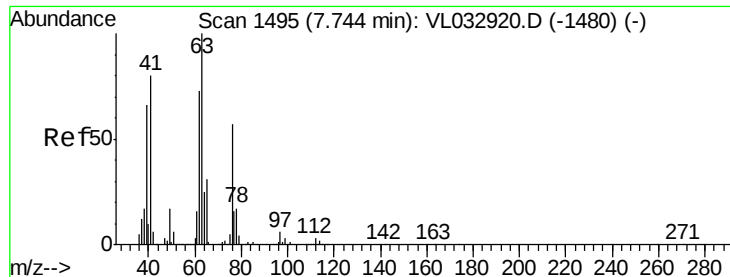
Tgt Ion: 43 Resp: 15236
 Ion Ratio Lower Upper
 43 100
 72 31.3 18.8 28.2#



#36
 Benzene
 Concen: 1.021 ppbv
 RT: 7.01 min Scan# 1266
 Delta R.T. -0.01 min
 Lab File: VL032991.D
 Acq: 13 Dec 2018 20:13

Tgt Ion: 78 Resp: 213529
 Ion Ratio Lower Upper
 78 100
 77 21.5 18.9 28.3
 50 19.4 16.1 24.1





#39

1,2-Dichloropropane

Concen: 8.886 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

P0068-SG001-181212-01DL

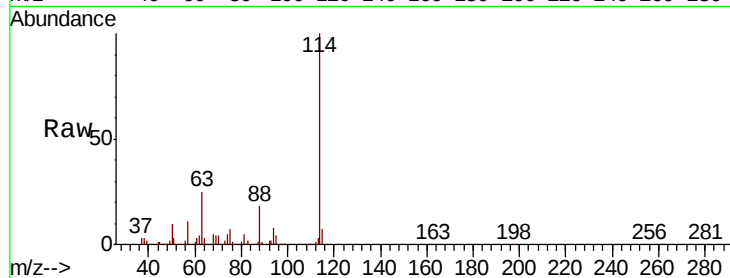
Tgt Ion: 63 Resp: 704718

Ion Ratio Lower Upper

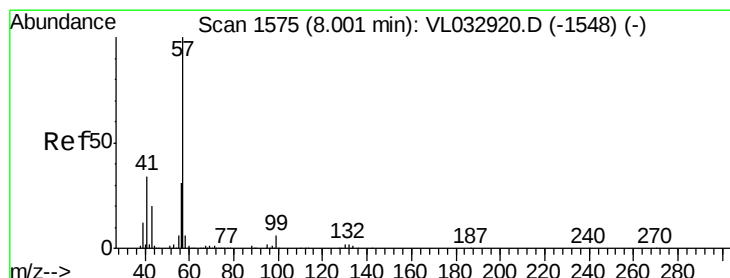
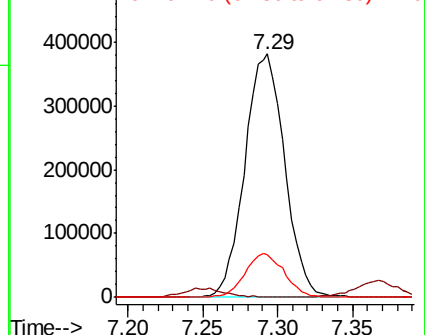
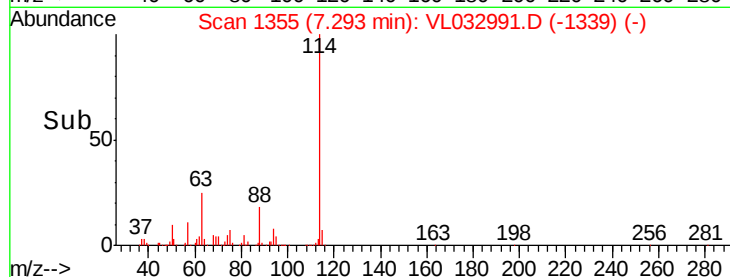
63 100

41 0.0 63.9 95.9#

62 17.2 58.8 88.2#



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



#44

2,2,4-Trimethylpentane

Concen: 1.770 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

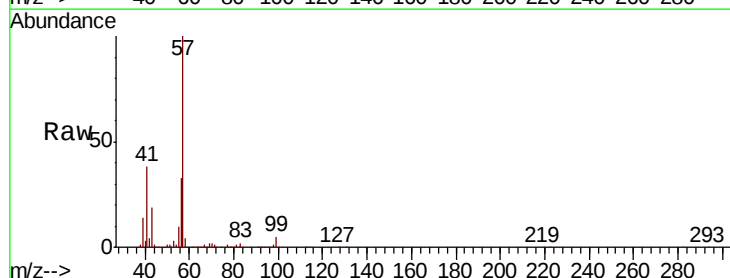
Tgt Ion: 57 Resp: 628396

Ion Ratio Lower Upper

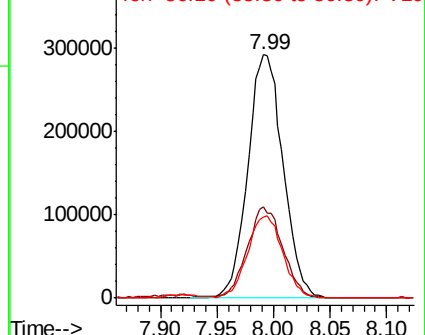
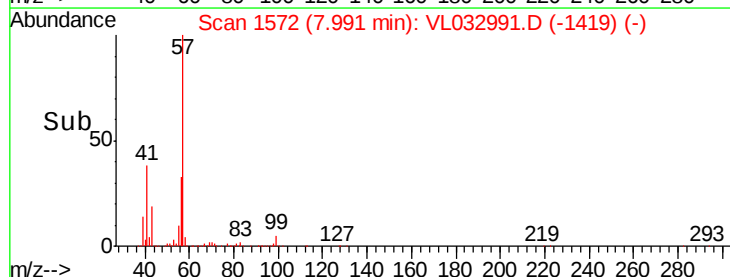
57 100

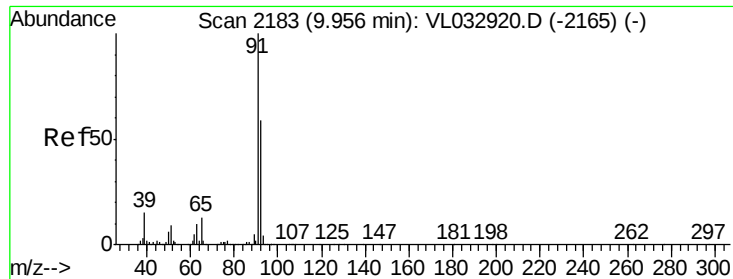
41 37.7 27.0 40.4

56 34.6 24.6 37.0



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 5.986 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

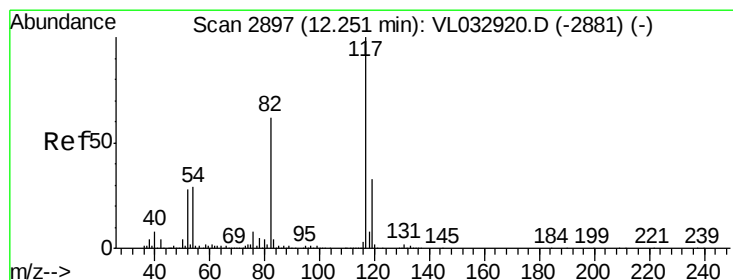
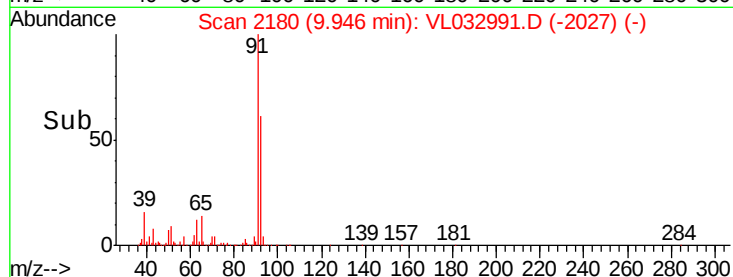
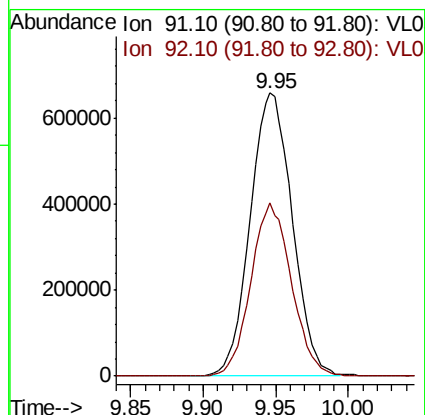
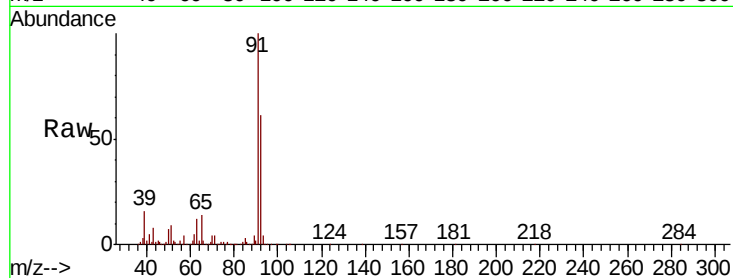
P0068-SG001-181212-01DL

Tgt Ion: 91 Resp: 1327530

Ion Ratio Lower Upper

91 100

92 59.0 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

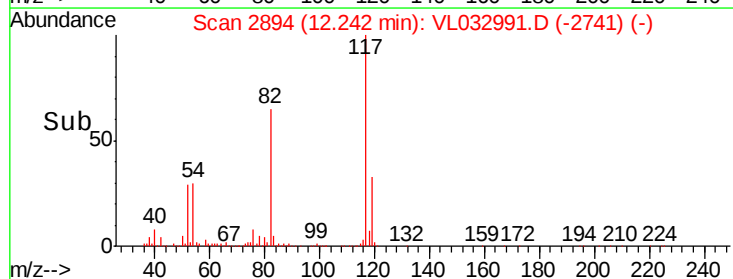
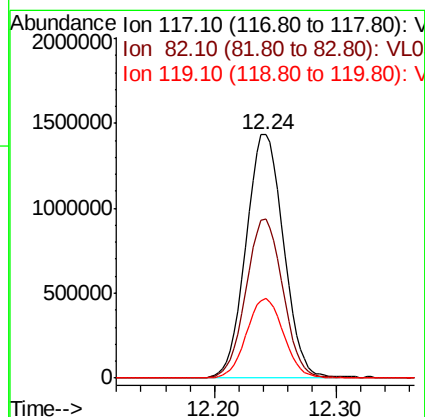
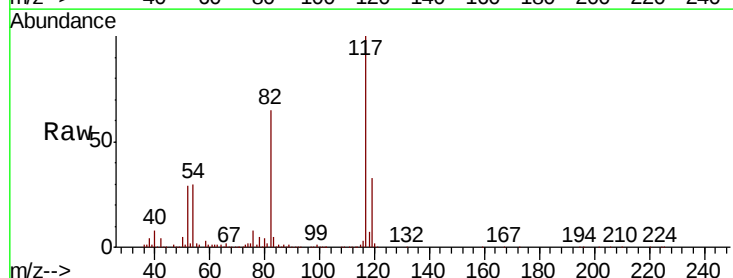
Tgt Ion: 117 Resp: 3047814

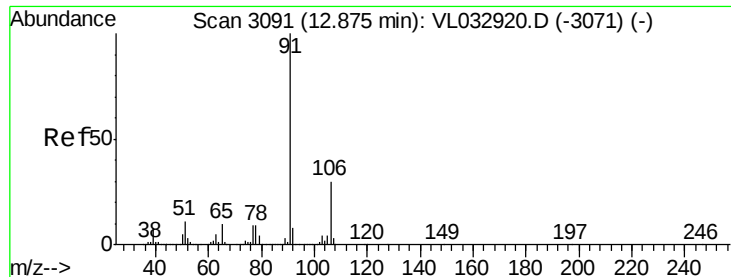
Ion Ratio Lower Upper

117 100

82 65.1 47.8 71.8

119 32.4 43.1 64.7#





#58

Ethyl Benzene

Concen: 0.146 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032991.D

Acq: 13 Dec 2018 20:13

Instrument :

MSVOA_L

ClientSampleId :

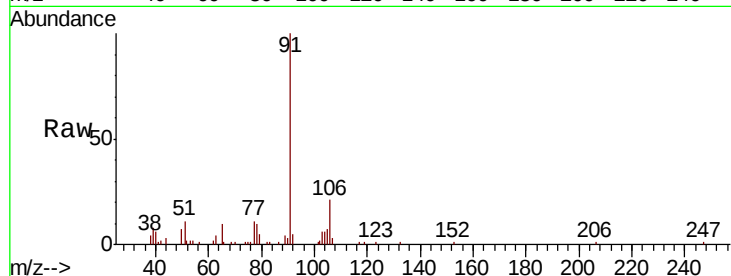
P0068-SG001-181212-01DL

Tgt Ion: 91 Resp: 47401

Ion Ratio Lower Upper

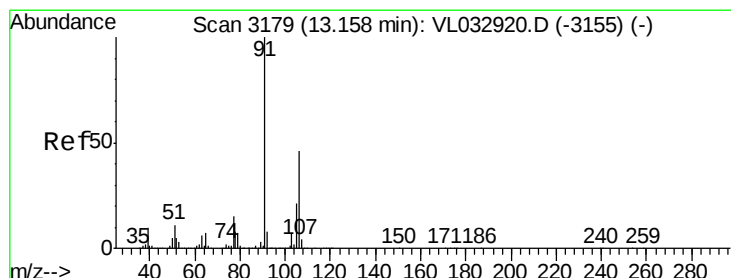
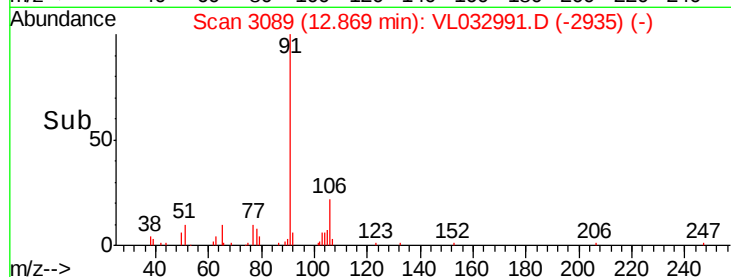
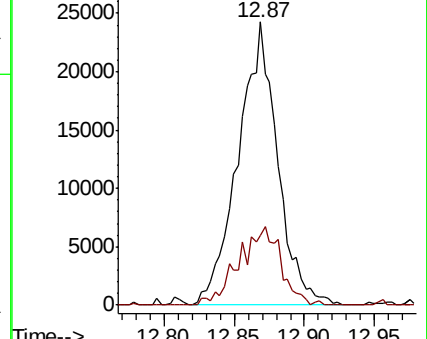
91 100

106 24.5 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.063 ppbv

RT: 13.14 min Scan# 3174

Delta R.T. -0.02 min

Lab File: VL032991.D

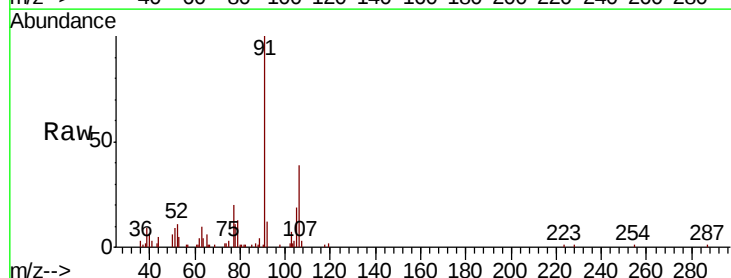
Acq: 13 Dec 2018 20:13

Tgt Ion: 91 Resp: 18668

Ion Ratio Lower Upper

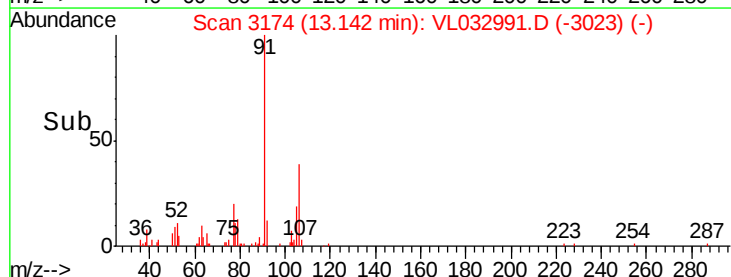
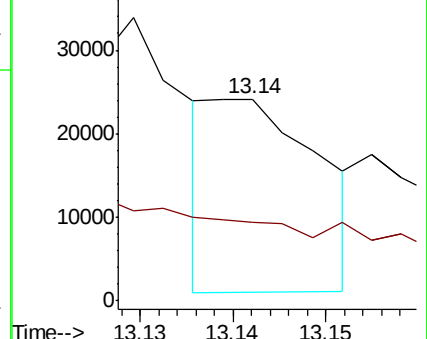
91 100

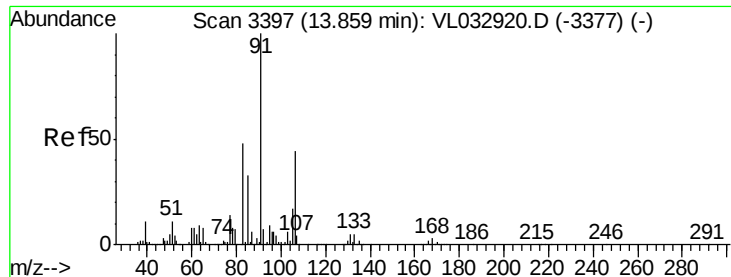
106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

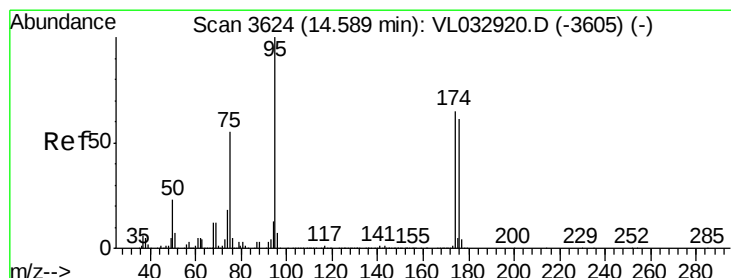
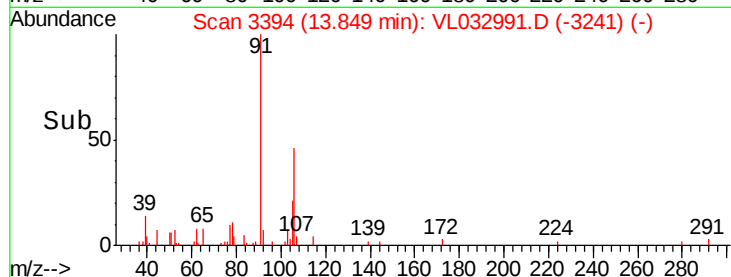
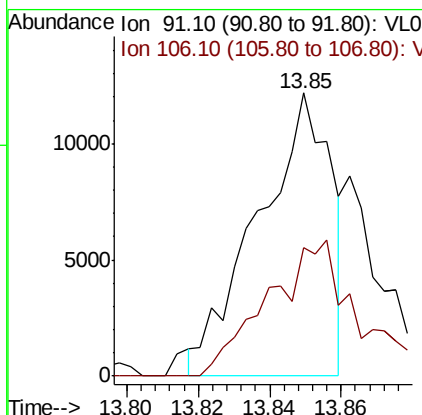
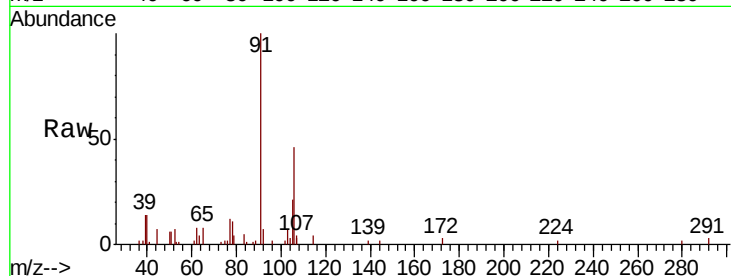




#60
o-Xylene
Concen: 0.058 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

Instrument :
MSVOA_L
ClientSampleId :
P0068-SG001-181212-01DL

Tgt Ion: 91 Resp: 17291
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.738 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL032991.D
Acq: 13 Dec 2018 20:13

Tgt Ion: 95 Resp: 2417911
Ion Ratio Lower Upper
95 100
174 64.6 51.4 77.0
175 4.8 3.8 5.6

