

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
 Data File : VL032213.D
 Acq On : 5 Jul 2018 21:23
 Operator : SY/AP
 Sample : J3867-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 539ADL

Quant Time: Jul 06 04:30:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1556840	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3806726	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.33	117	3925711	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3019097	10.06	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

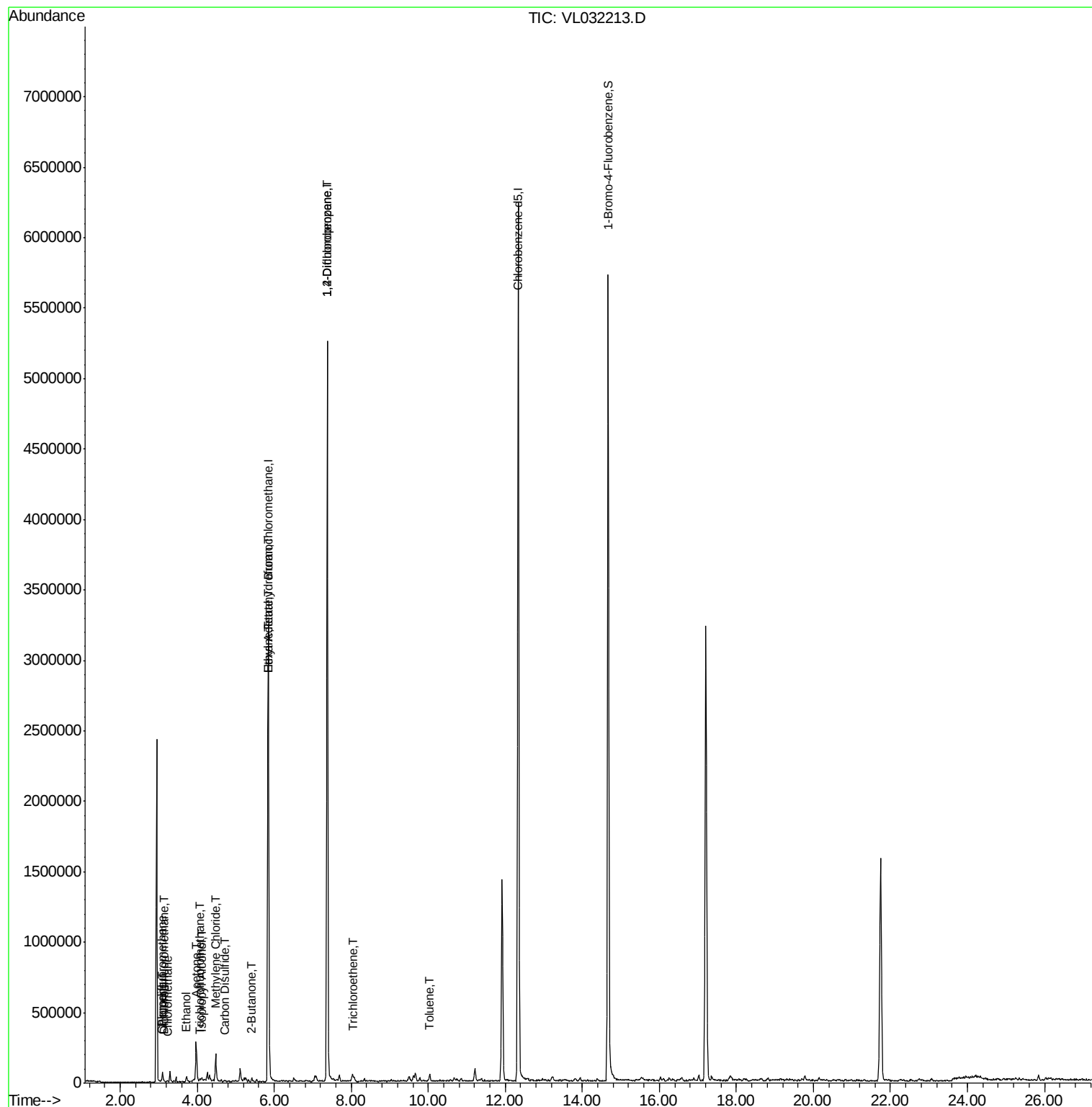
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	3.13	85	9398	0.046	ppbv	# 87
3) Chlorodifluoromethane	3.07	51	12987	0.068	ppbv	99
4) Chloromethane	3.23	50	4845	0.048	ppbv	# 79
9) Propene	3.09	41	5662	0.064	ppbv	# 40
11) Trichlorofluoromethane	4.07	101	8357	0.038	ppbv	90
13) Ethanol	3.72	45	16493	0.614	ppbv	# 11
15) Acetone	3.97	43	297168	1.632	ppbv	99
19) Isopropyl Alcohol	4.11	45	12563	0.083	ppbv	# 38
20) Methylene Chloride	4.48	84	62295	0.936	ppbv	95
25) Ethyl Acetate	5.86	43	223481	0.593	ppbv	# 78
26) Hexane	5.86	57	320376	1.847	ppbv	# 45
27) Carbon Disulfide	4.70	76	5712	0.033	ppbv	# 62
34) 2-Butanone	5.42	43	23997	0.099	ppbv	# 84
38) Trichloroethene	8.05	130	4322	0.030	ppbv	# 54
39) 1,2-Dichloropropane	7.38	63	1029940	7.088	ppbv	# 27
41) Tetrahydrofuran	5.86	42	118181	0.816	ppbv	# 50
53) Toluene	10.04	91	26656	0.060	ppbv	# 75

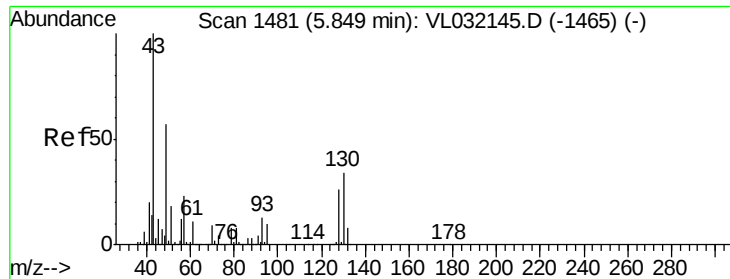
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.02 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

539ADL

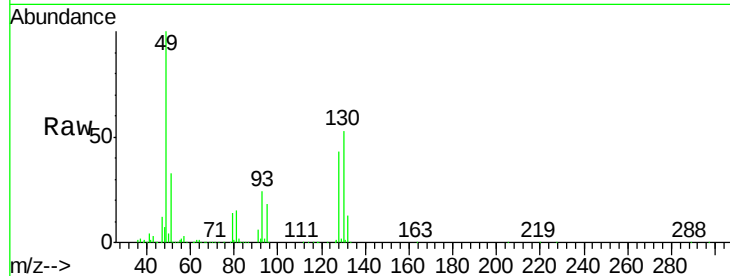
Tgt Ion: 49 Resp: 1556840

Ion Ratio Lower Upper

49 100

128 43.2 23.4 70.0

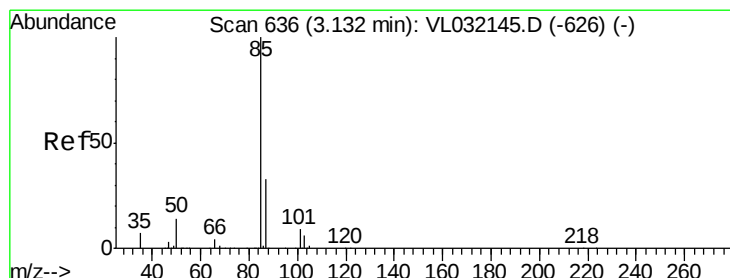
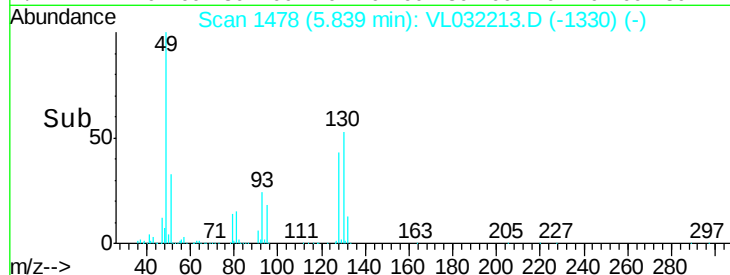
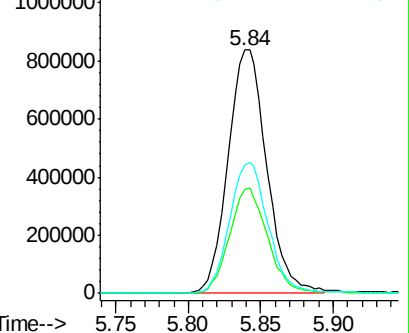
130 54.5 30.3 90.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032213.D

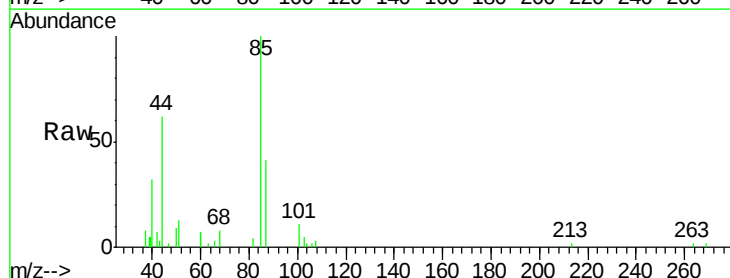
Acq: 5 Jul 2018 21:23

Tgt Ion: 85 Resp: 9398

Ion Ratio Lower Upper

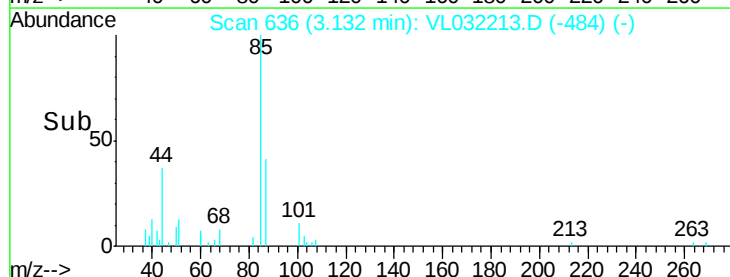
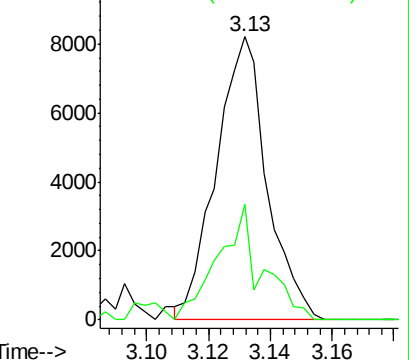
85 100

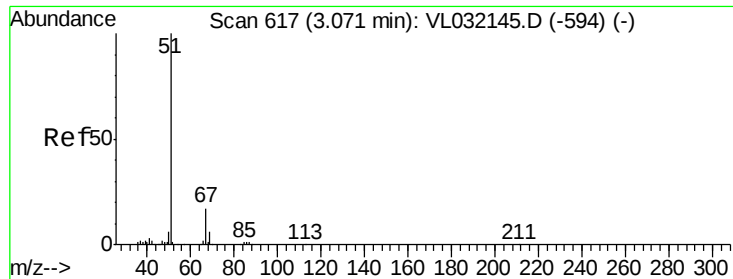
87 40.9 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.068 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

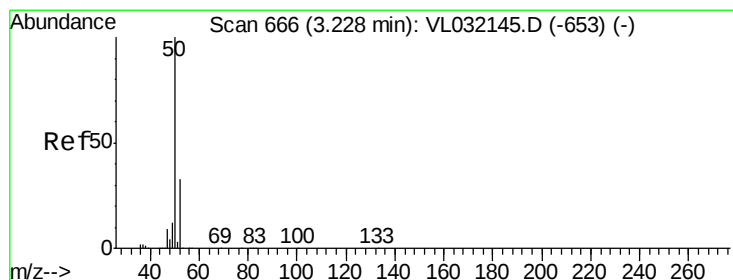
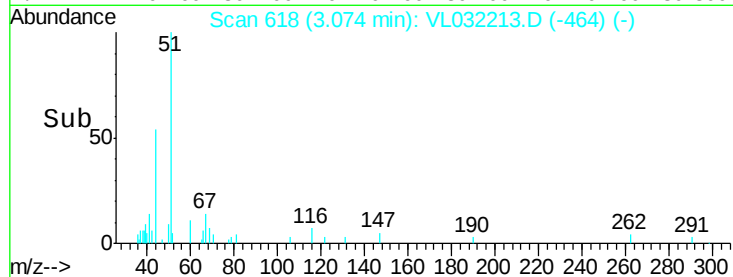
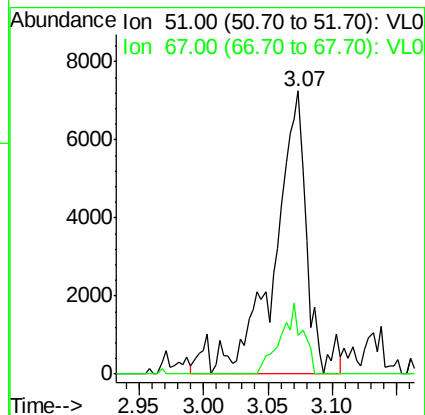
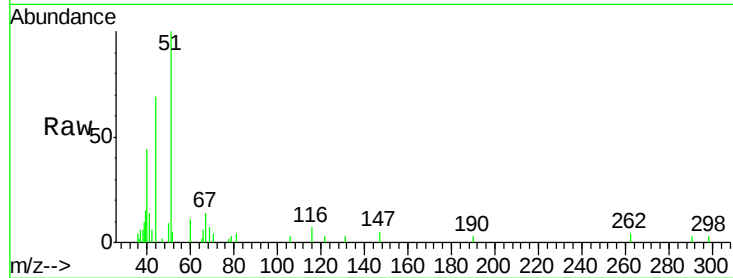
539ADL

Tgt Ion: 51 Resp: 12987

Ion Ratio Lower Upper

51 100

67 17.0 13.2 19.8



#4

Chloromethane

Concen: 0.048 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032213.D

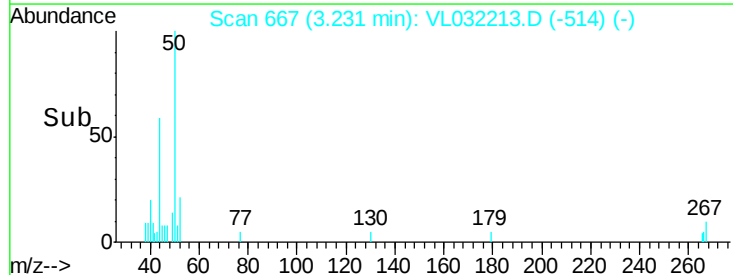
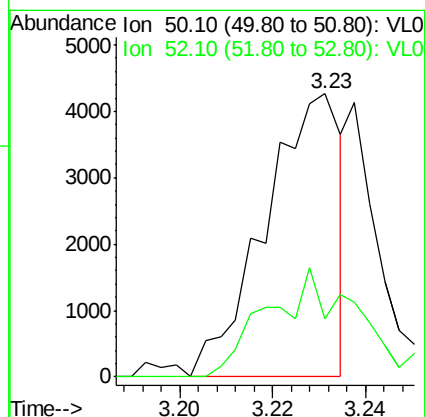
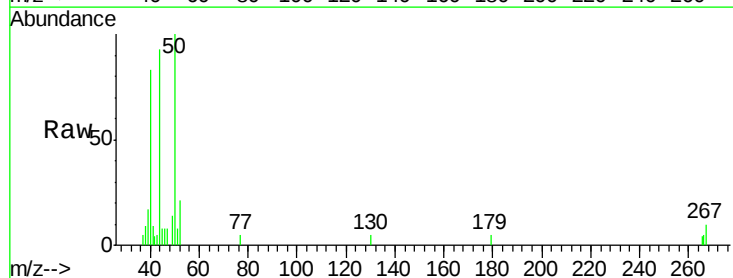
Acq: 5 Jul 2018 21:23

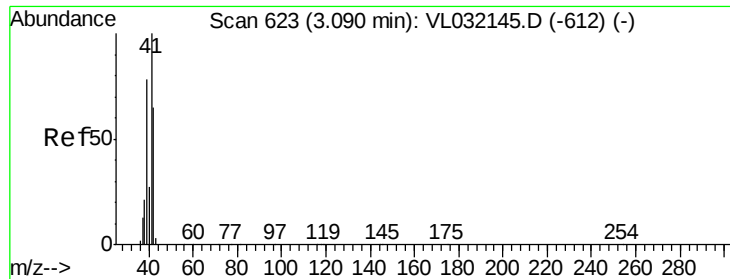
Tgt Ion: 50 Resp: 4845

Ion Ratio Lower Upper

50 100

52 20.5 26.0 39.0#





#9

Propene

Concen: 0.064 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

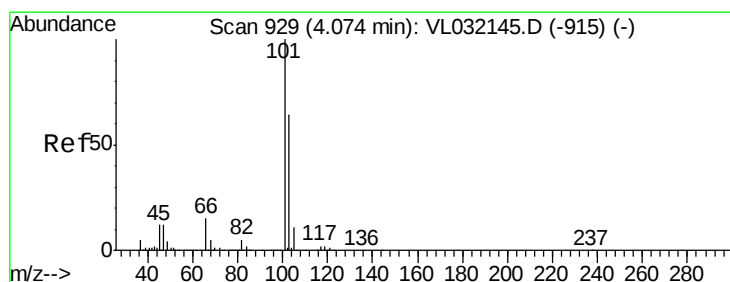
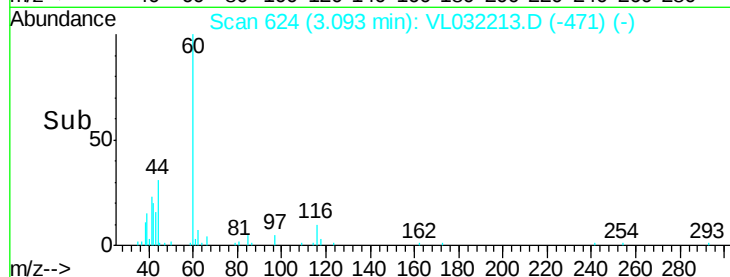
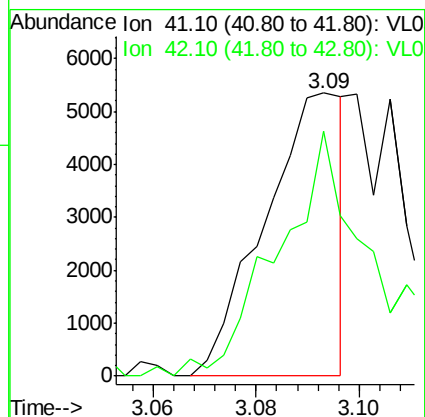
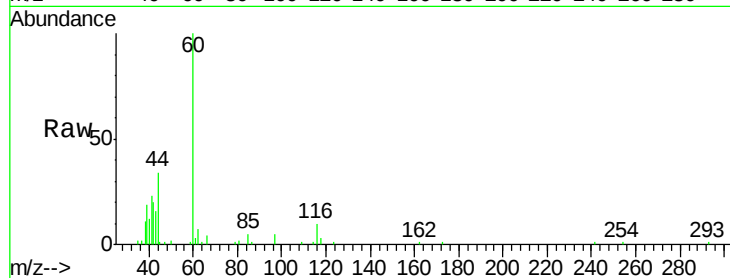
539ADL

Tgt Ion: 41 Resp: 5662

Ion Ratio Lower Upper

41 100

42 119.7 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032213.D

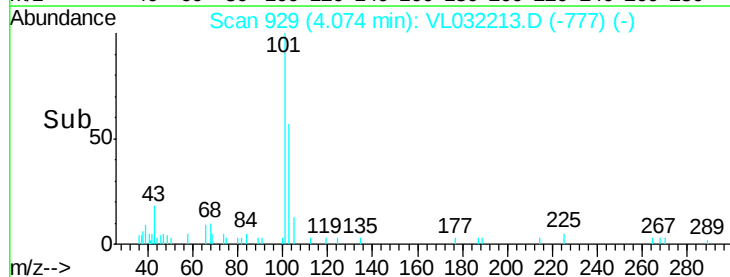
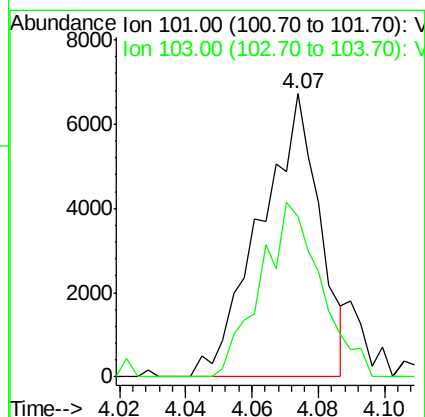
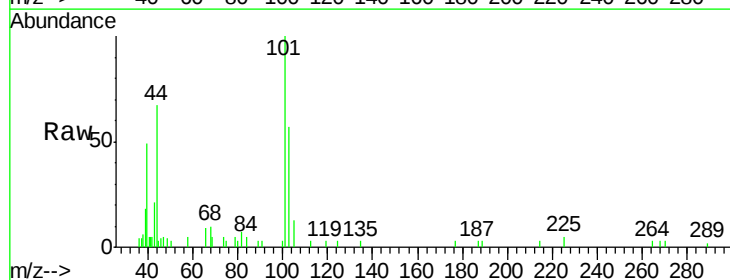
Acq: 5 Jul 2018 21:23

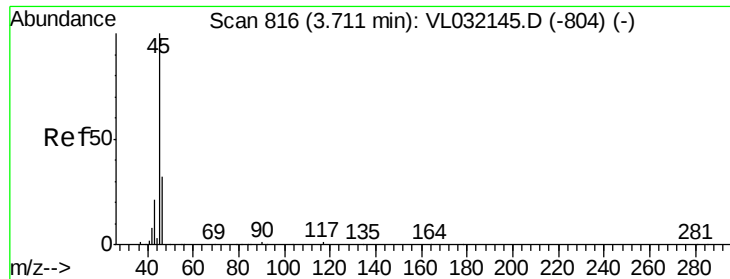
Tgt Ion: 101 Resp: 8357

Ion Ratio Lower Upper

101 100

103 56.6 51.4 77.0





#13

Ethanol

Concen: 0.614 ppbv

RT: 3.72 min Scan# 818

Delta R.T. -0.01 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

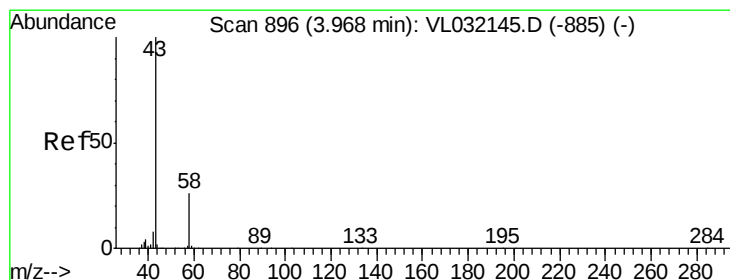
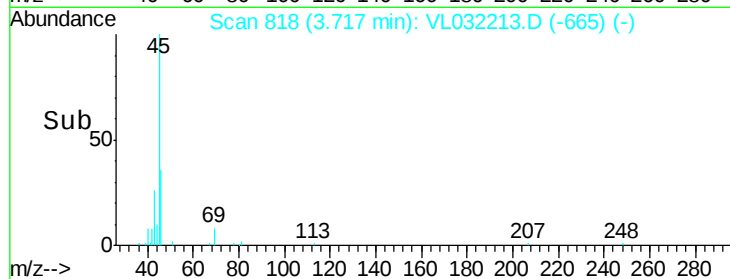
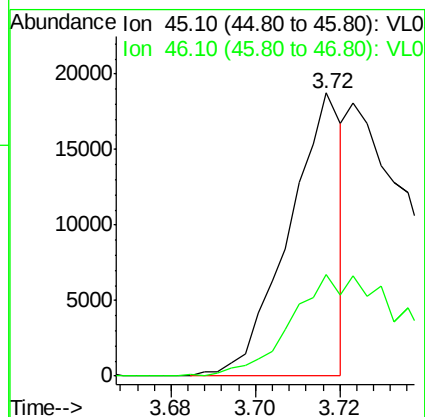
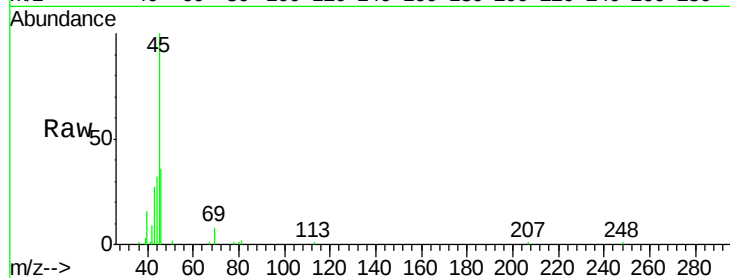
539ADL

Tgt Ion: 45 Resp: 16493

Ion Ratio Lower Upper

45 100

46 89.5 14.6 58.4#



#15

Acetone

Concen: 1.632 ppbv

RT: 3.97 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032213.D

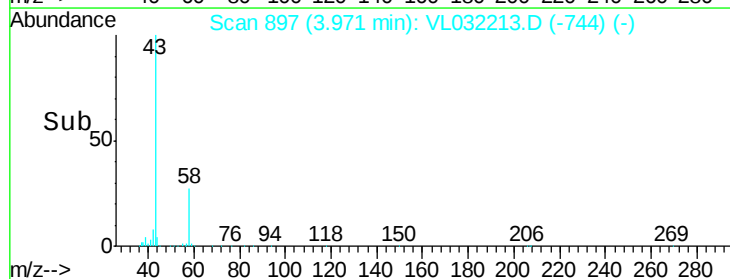
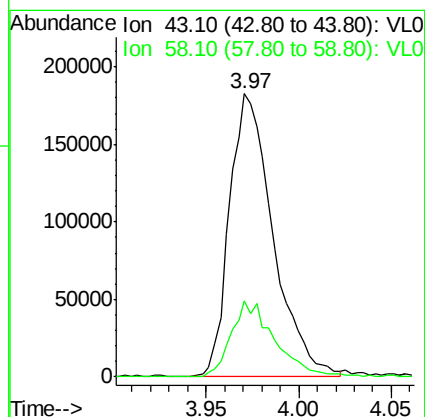
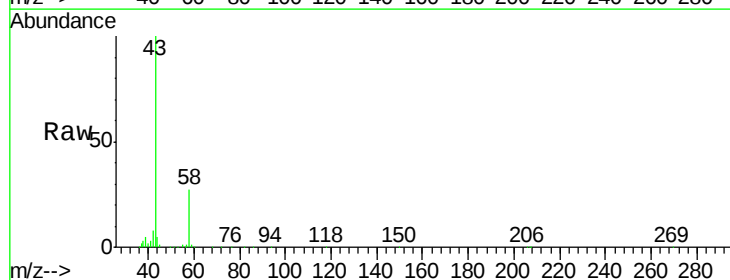
Acq: 5 Jul 2018 21:23

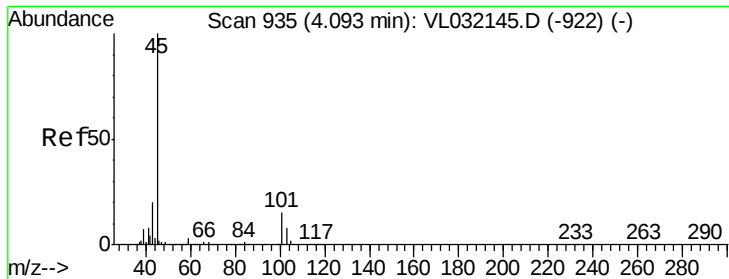
Tgt Ion: 43 Resp: 297168

Ion Ratio Lower Upper

43 100

58 27.1 21.4 32.0





#19

Isopropyl Alcohol

Concen: 0.083 ppbv

RT: 4.11 min Scan# 940

Delta R.T. 0.01 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

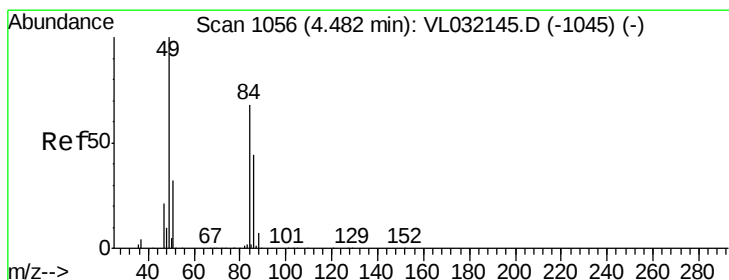
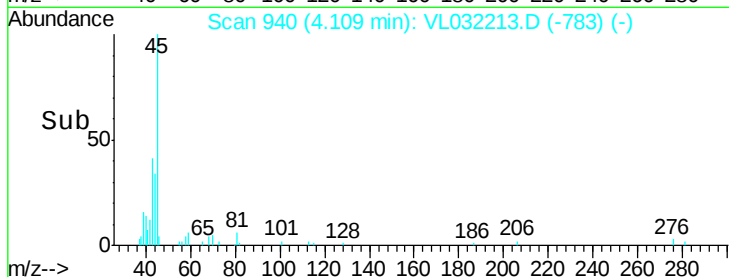
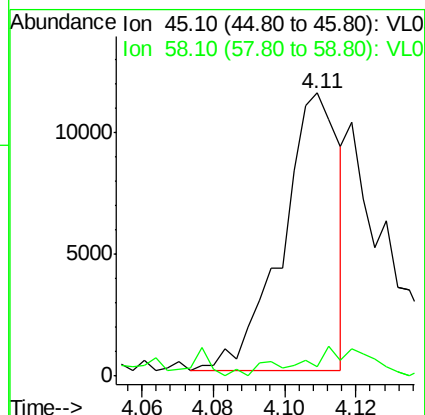
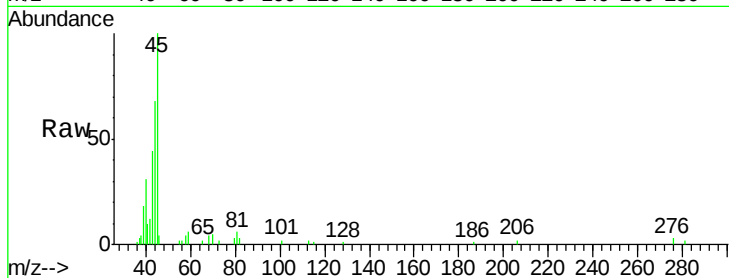
539ADL

Tgt Ion: 45 Resp: 12563

Ion Ratio Lower Upper

45 100

58 0.0 29.4 44.0#



#20

Methylene Chloride

Concen: 0.936 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Tgt Ion: 84 Resp: 62295

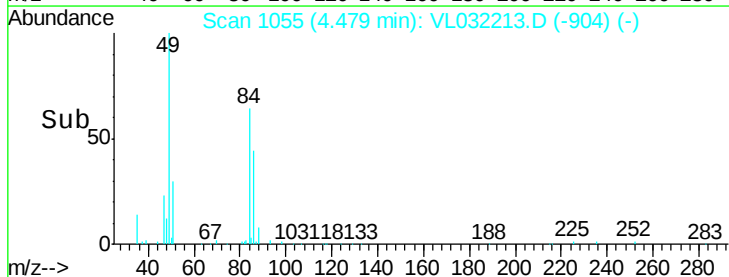
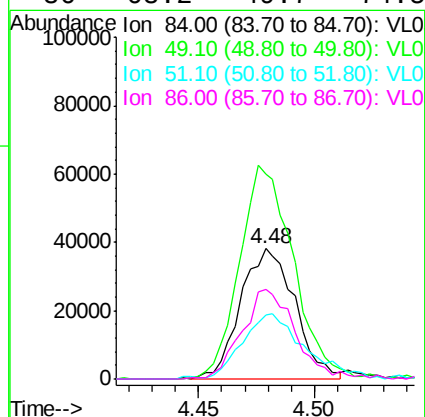
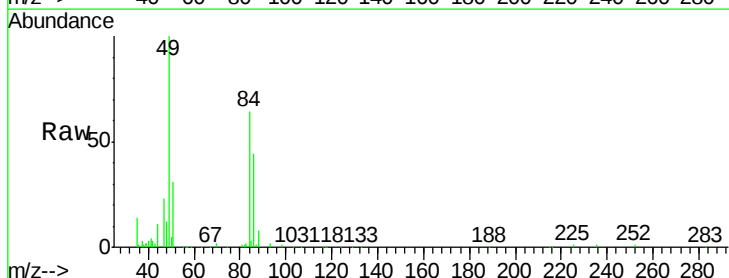
Ion Ratio Lower Upper

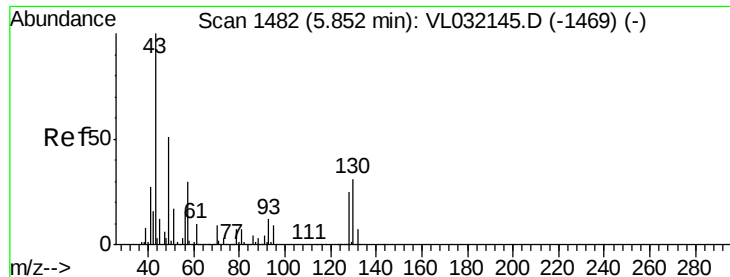
84 100

49 155.3 119.6 179.4

51 47.8 36.3 54.5

86 68.2 49.7 74.5

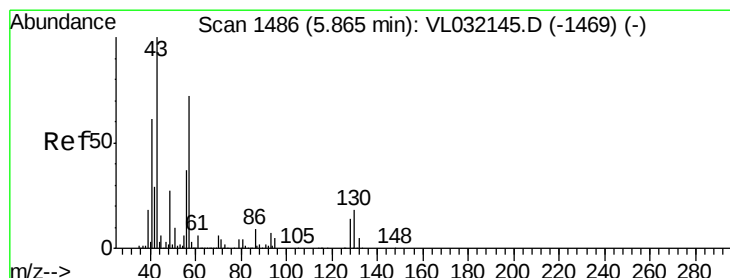
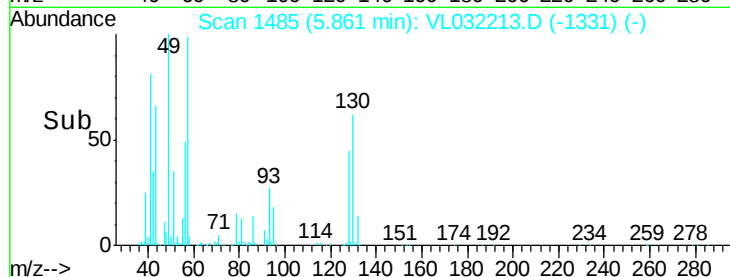
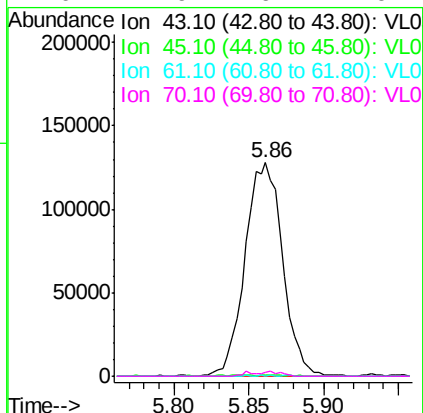
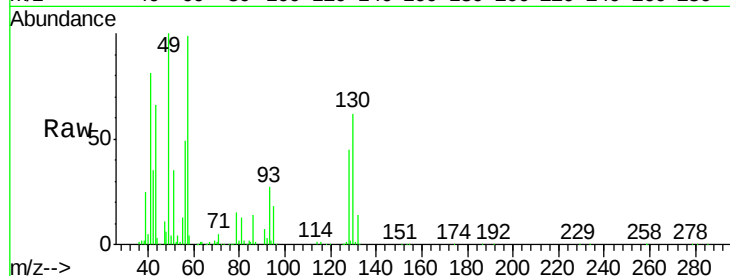




#25
Ethyl Acetate
Concen: 0.593 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.00 min
Lab File: VL032213.D
Acq: 5 Jul 2018 21:23

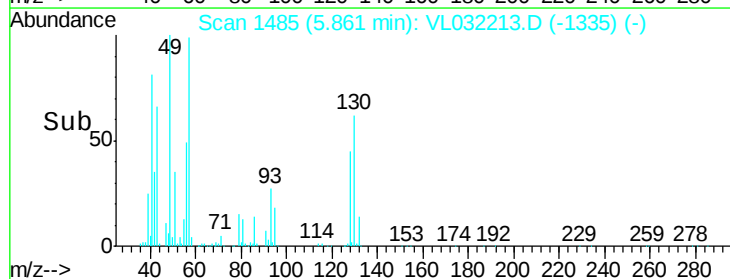
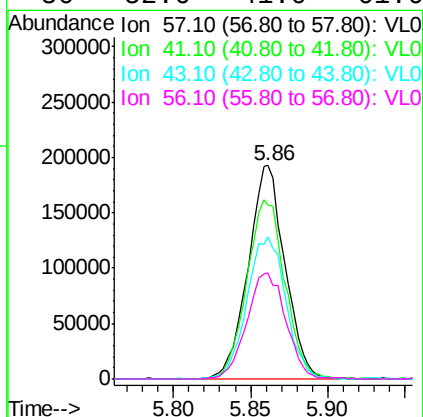
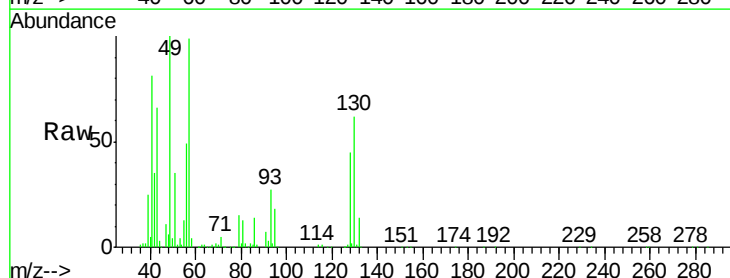
Instrument :
MSVOA_L
ClientSampleId :
539ADL

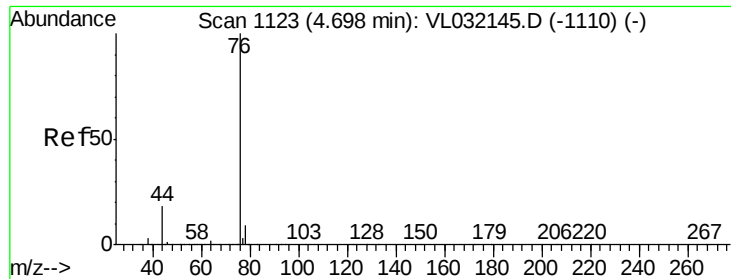
Tgt Ion:	43	Resp:	223481
Ion	Ratio	Lower	Upper
43	100		
45	0.9	7.8	11.8#
61	0.5	7.4	11.0#
70	1.9	6.1	9.1#



#26
Hexane
Concen: 1.847 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032213.D
Acq: 5 Jul 2018 21:23

Tgt Ion:	57	Resp:	320376
Ion	Ratio	Lower	Upper
57	100		
41	87.3	68.6	103.0
43	69.8	168.6	252.8#
56	52.6	41.0	61.6





#27

Carbon Disulfide

Concen: 0.033 ppbv

RT: 4.70 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

539ADL

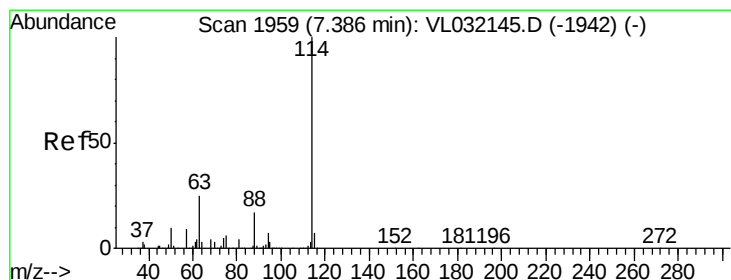
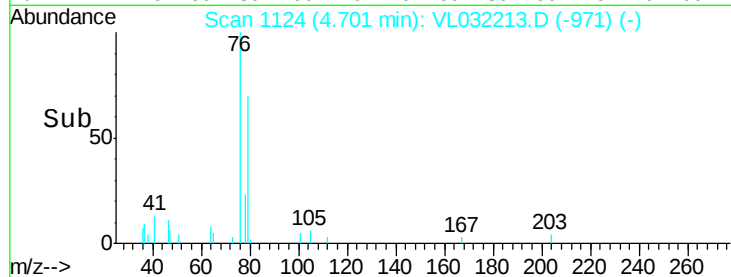
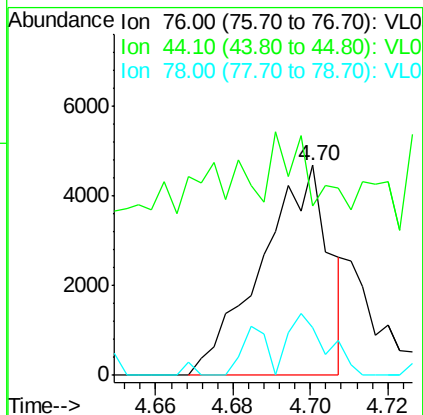
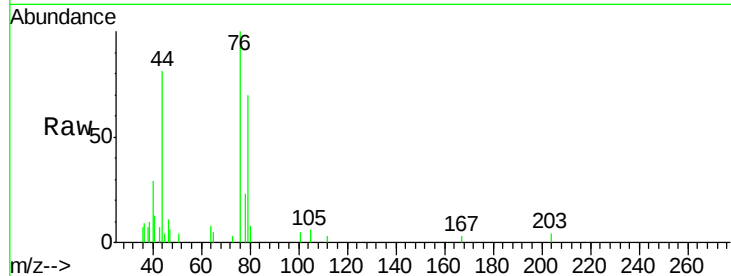
Tgt Ion: 76 Resp: 5712

Ion Ratio Lower Upper

76 100

44 34.5 15.1 22.7#

78 25.6 7.2 10.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.02 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

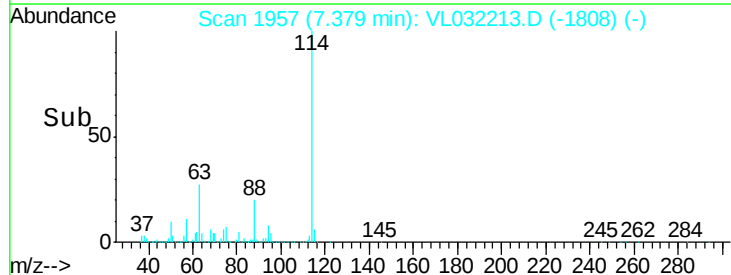
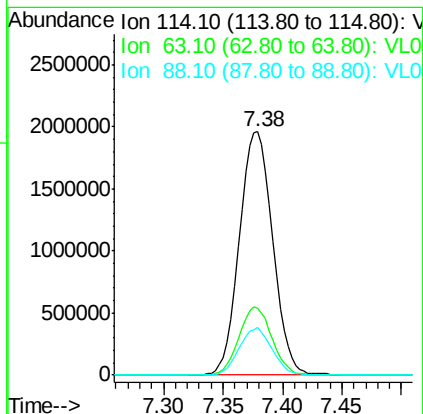
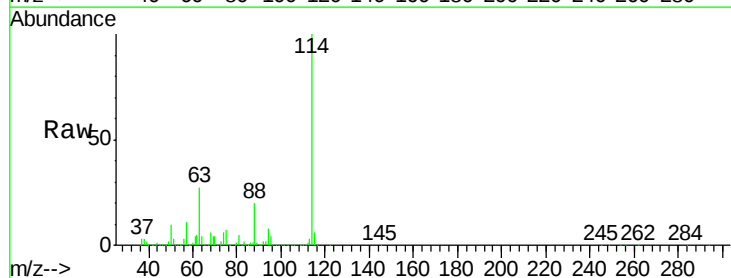
Tgt Ion: 114 Resp: 3806726

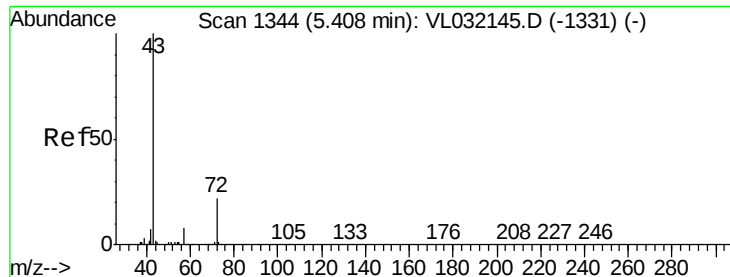
Ion Ratio Lower Upper

114 100

63 27.5 19.1 28.7

88 19.2 13.9 20.9

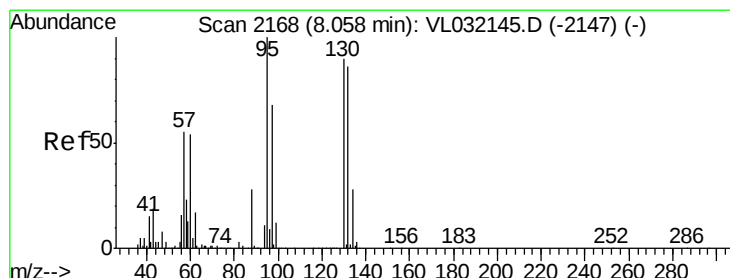
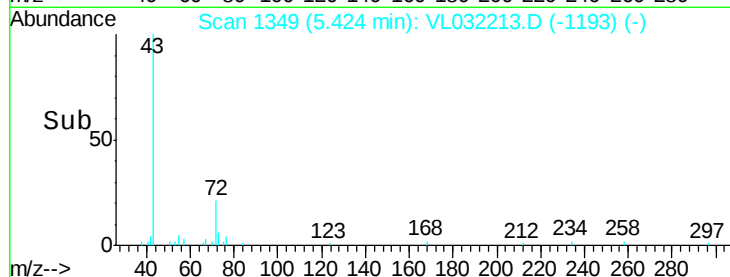
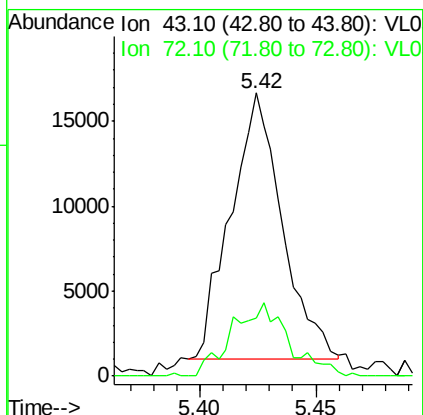
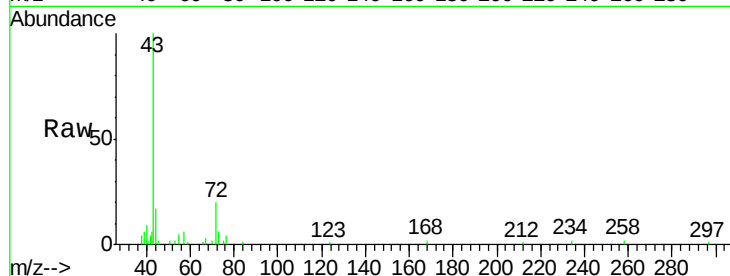




#34
2-Butanone
Concen: 0.099 ppbv
RT: 5.42 min Scan# 1349
Delta R.T. 0.00 min
Lab File: VL032213.D
Acq: 5 Jul 2018 21:23

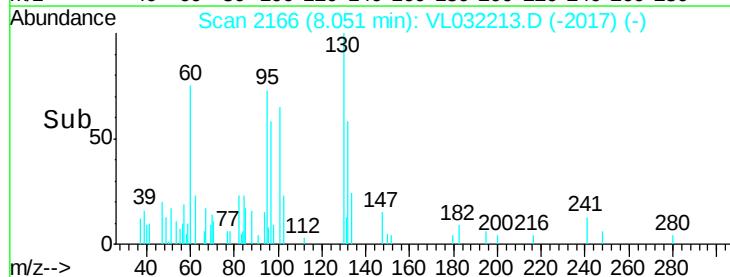
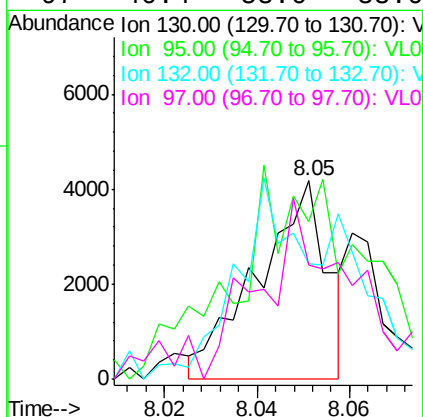
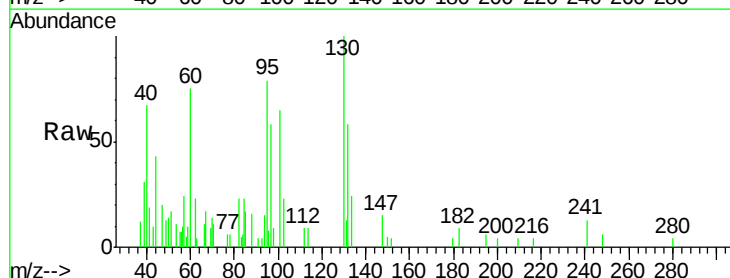
Instrument :
MSVOA_L
ClientSampleId :
539ADL

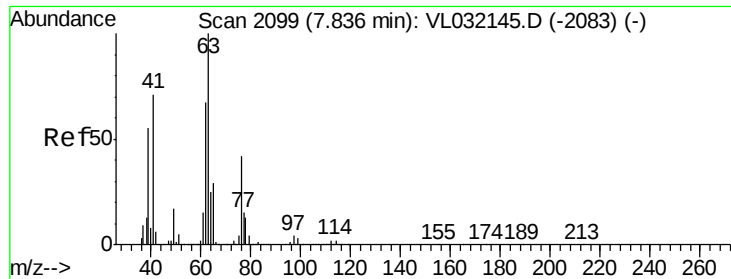
Tgt Ion: 43 Resp: 23997
Ion Ratio Lower Upper
43 100
72 30.8 18.4 27.6#



#38
Trichloroethene
Concen: 0.030 ppbv
RT: 8.05 min Scan# 2166
Delta R.T. -0.02 min
Lab File: VL032213.D
Acq: 5 Jul 2018 21:23

Tgt Ion: 130 Resp: 4322
Ion Ratio Lower Upper
130 100
95 48.4 88.1 132.1#
132 59.3 74.6 112.0#
97 40.4 58.6 88.0#





#39

1,2-Dichloropropane

Concen: 7.088 ppbv

RT: 7.38 min Scan# 1956

Delta R.T. -0.47 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

539ADL

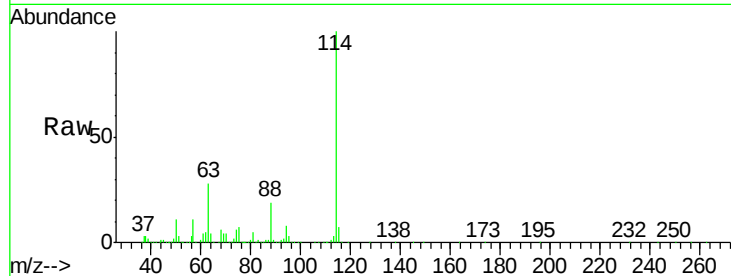
Tgt Ion: 63 Resp: 1029940

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

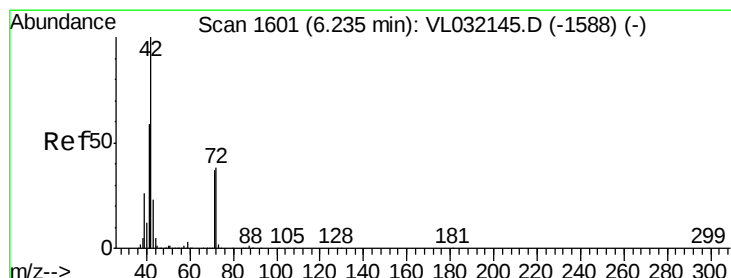
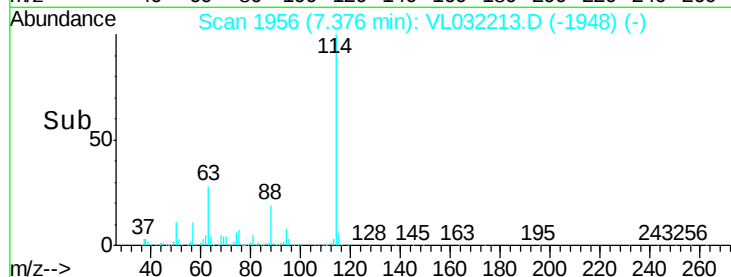
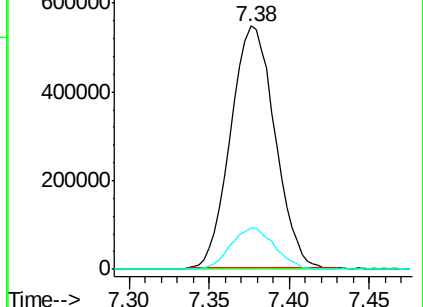
62 17.2 54.8 82.2#



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



#41

Tetrahydrofuran

Concen: 0.816 ppbv

RT: 5.86 min Scan# 1484

Delta R.T. -0.39 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

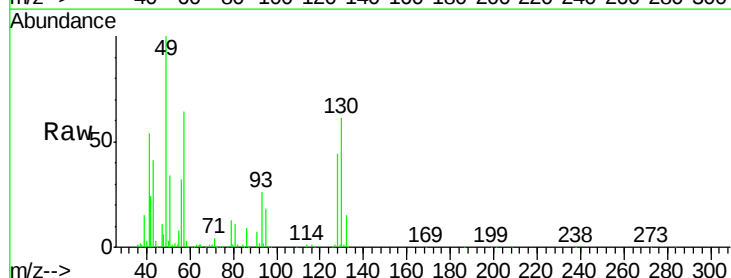
Tgt Ion: 42 Resp: 118181

Ion Ratio Lower Upper

42 100

72 1.2 31.1 46.7#

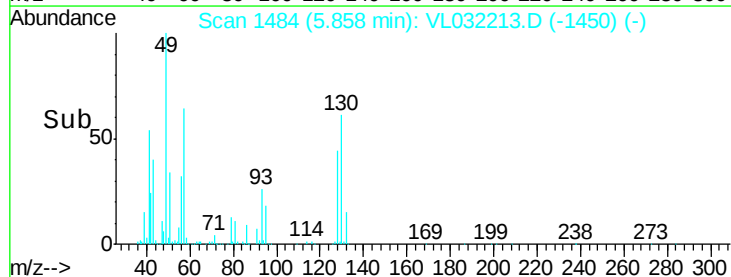
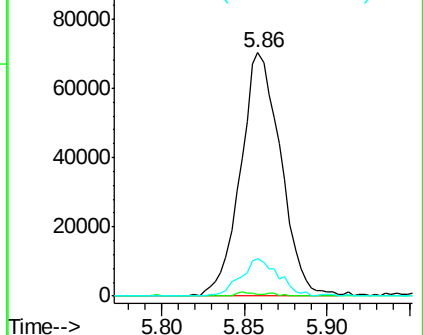
71 14.8 29.5 44.3#

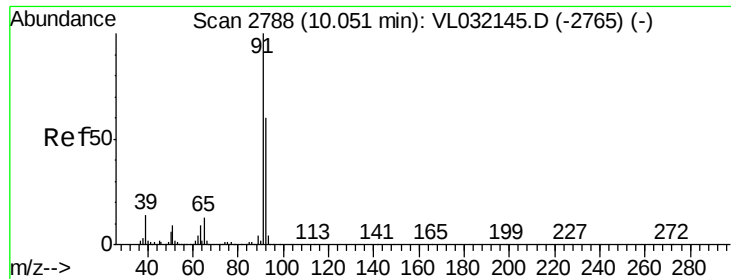


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.060 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

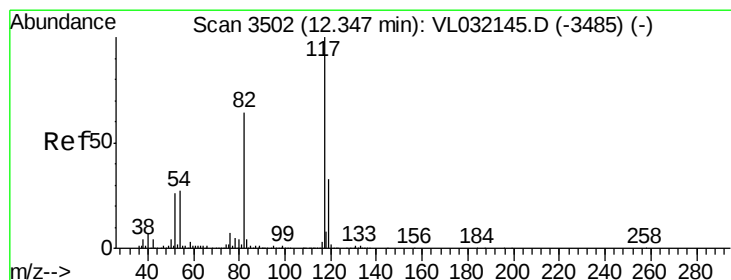
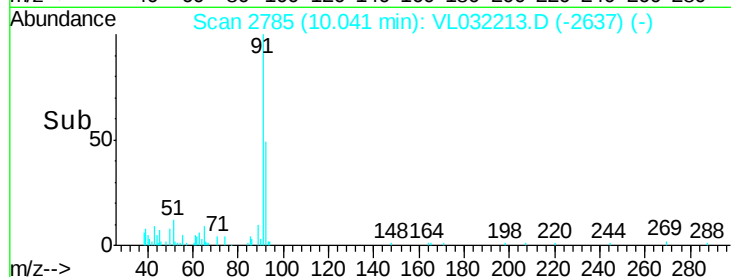
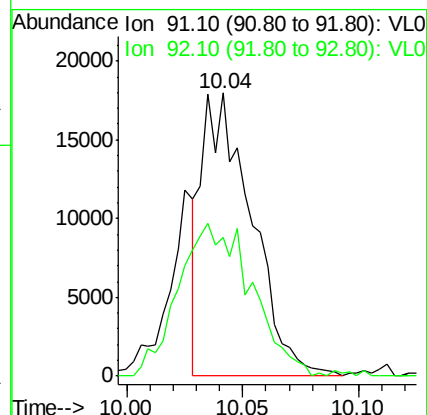
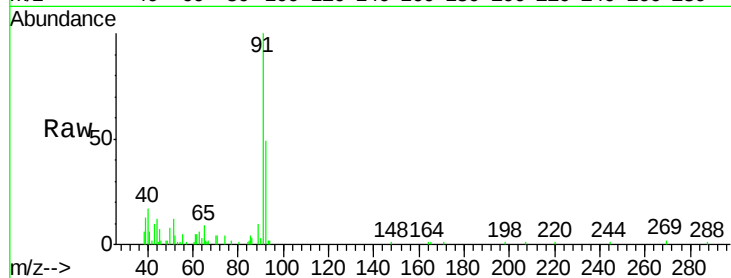
539ADL

Tgt Ion: 91 Resp: 26656

Ion Ratio Lower Upper

91 100

92 80.7 49.2 73.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3498

Delta R.T. -0.03 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

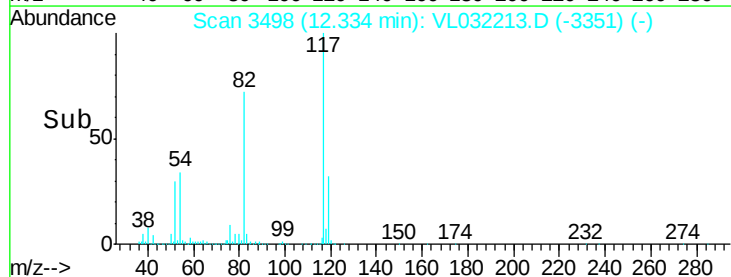
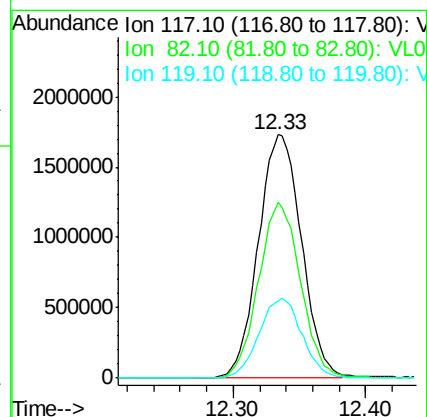
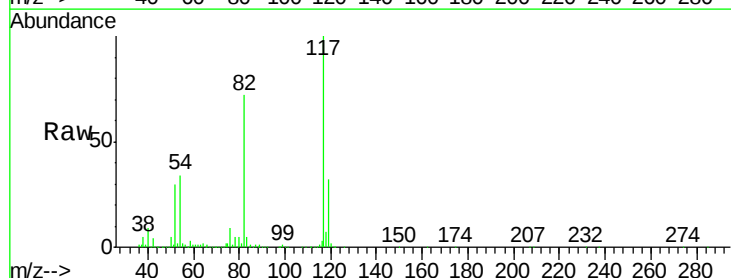
Tgt Ion: 117 Resp: 3925711

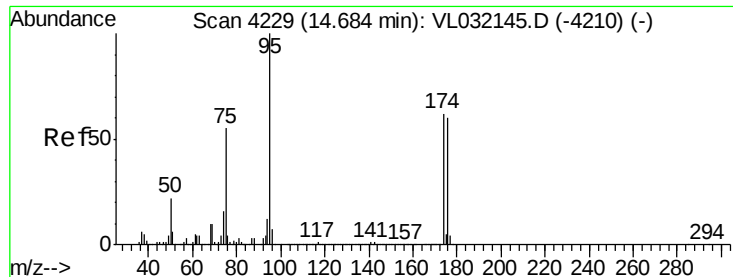
Ion Ratio Lower Upper

117 100

82 70.8 47.8 71.8

119 32.9 43.3 64.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.061 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.03 min

Lab File: VL032213.D

Acq: 5 Jul 2018 21:23

Instrument :

MSVOA_L

ClientSampleId :

539ADL

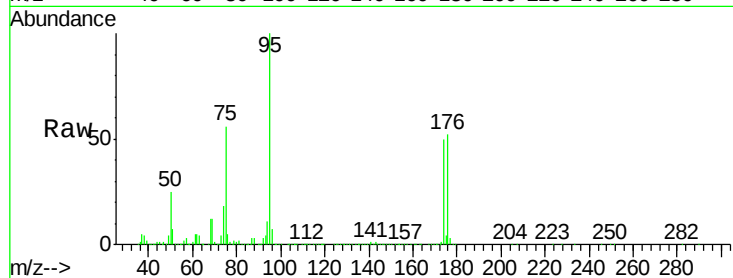
Tgt Ion: 95 Resp: 3019097

Ion Ratio Lower Upper

95 100

174 54.8 52.1 78.1

175 3.9 4.0 6.0



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

