

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071918\
 Data File : VL032304.D
 Acq On : 20 Jul 2018 1:34
 Operator : SY/AP
 Sample : J4029-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 20 02:12:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 14:38:53 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1480498	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3029143	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3550025	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	2790249	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

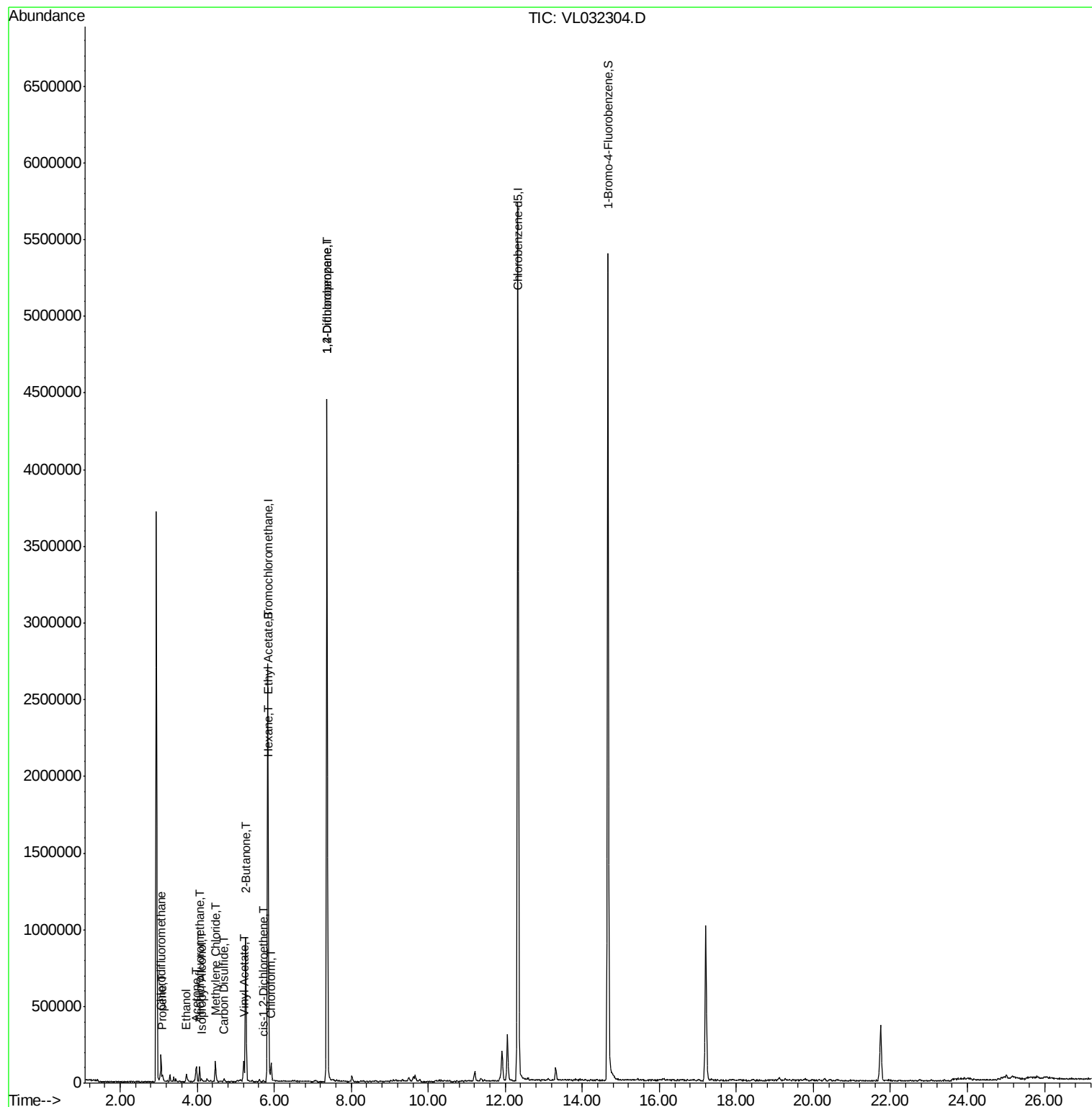
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.06	51	170713	1.027	ppbv 92
9) Propene	3.10	41	6071	0.084	ppbv 94
11) Trichlorofluoromethane	4.07	101	65026	0.330	ppbv 96
13) Ethanol	3.72	45	46777	2.255	ppbv 96
15) Acetone	3.97	43	99957	0.645	ppbv 92
19) Isopropyl Alcohol	4.11	45	7747	0.074	ppbv # 58
20) Methylene Chloride	4.48	84	43744	0.733	ppbv 94
23) Vinyl Acetate	5.21	43	27190	0.098	ppbv # 5
25) Ethyl Acetate	5.85	43	30626	0.091	ppbv # 80
26) Hexane	5.85	57	37662	0.243	ppbv # 40
27) Carbon Disulfide	4.69	76	14692	0.107	ppbv # 39
29) Chloroform	5.92	83	68688	0.301	ppbv 91
31) cis-1,2-Dichloroethene	5.71	61	4078	0.027	ppbv # 74
34) 2-Butanone	5.26	43	481128	2.315	ppbv # 58
39) 1,2-Dichloropropane	7.37	63	857127	7.261	ppbv # 25

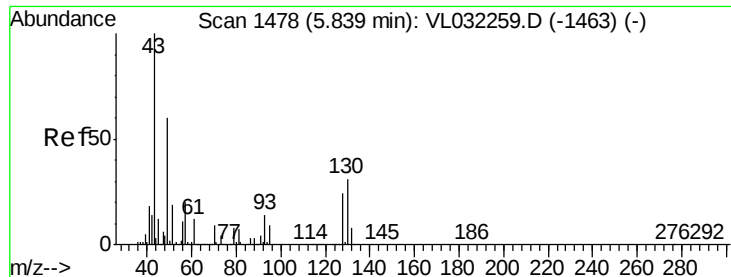
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.01 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Instrument :
MSVOA_L
ClientSampleId :

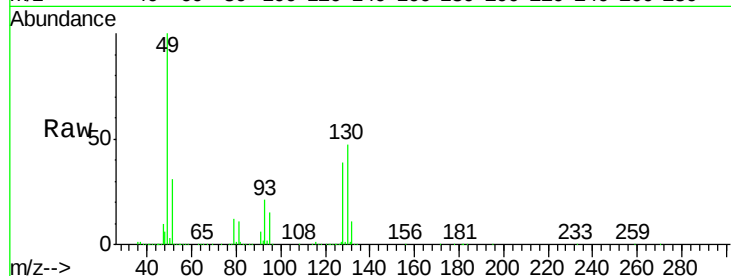
Tot Ion: 49 Resp: 1480498

Ion	Ratio	Lower	Upper
49	100		
128	39.8	20.1	60.2
130	50.6	25.9	77.6

49 100

128 39.8 20.1 60.2

130 50.6 25.9 77.6



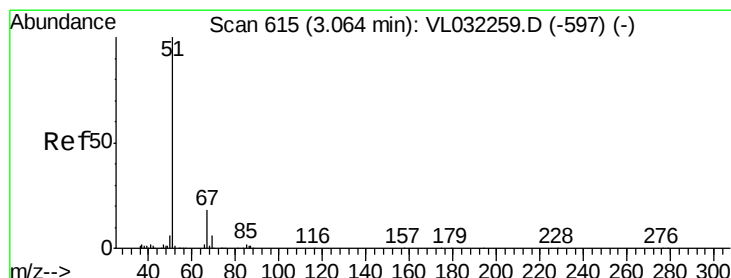
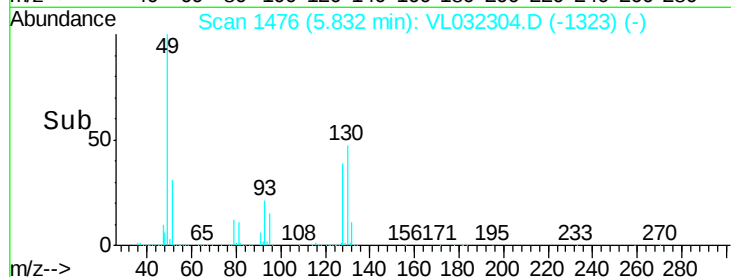
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.83

Time-->



#3

Chlorodifluoromethane

Concen: 1.027 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032304.D

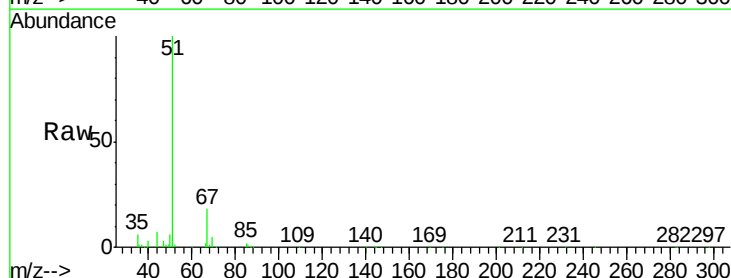
Acq: 20 Jul 2018 1:34

Tgt Ion: 51 Resp: 170713

Ion	Ratio	Lower	Upper
51	100		
67	14.4	14.2	21.4

51 100

67 14.4 14.2 21.4

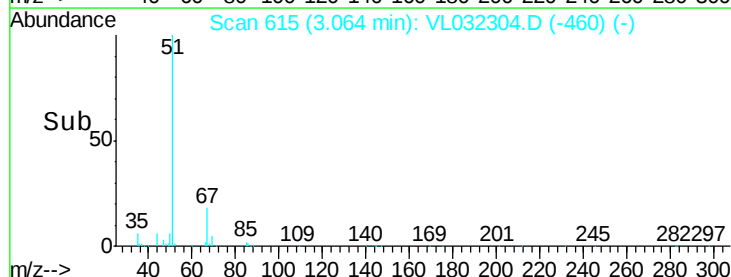


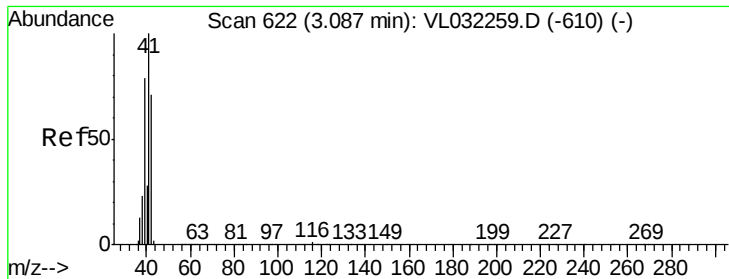
Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.06

Time-->





#9

Propene

Concen: 0.084 ppbv

RT: 3.10 min Scan# 625

Delta R.T. 0.01 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Instrument :

MSVOA_L

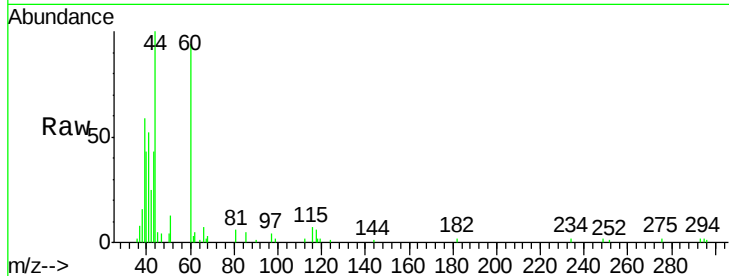
ClientSampleId :

Tot Ion: 41 Resp: 6071

Ion Ratio Lower Upper

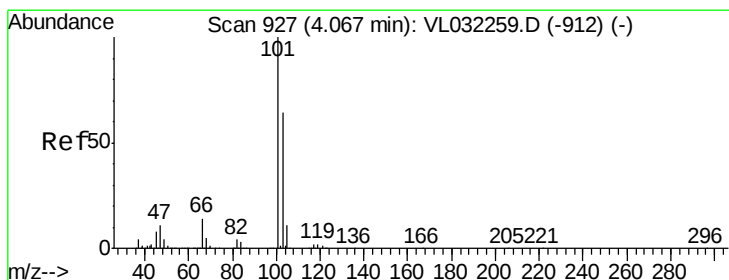
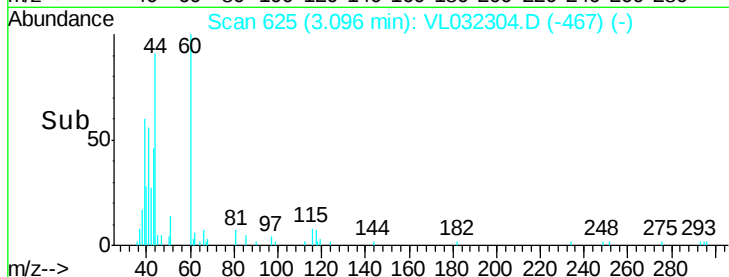
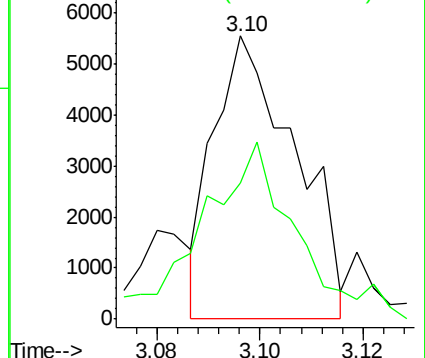
41 100

42 75.2 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.330 ppbv

RT: 4.07 min Scan# 927

Delta R.T. -0.00 min

Lab File: VL032304.D

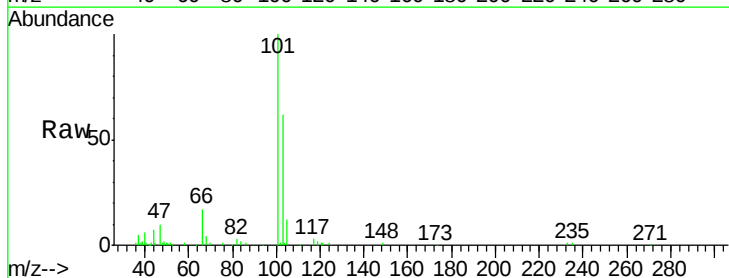
Acq: 20 Jul 2018 1:34

Tgt Ion: 101 Resp: 65026

Ion Ratio Lower Upper

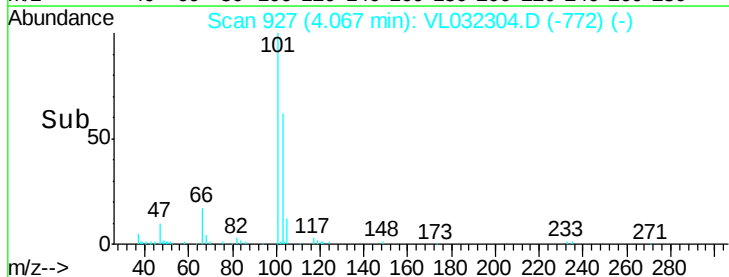
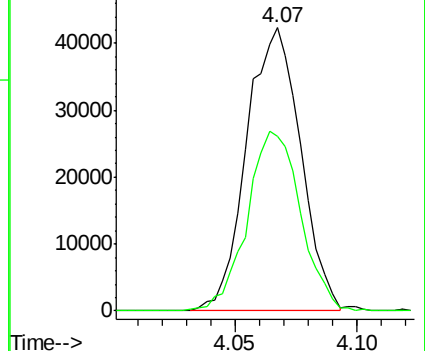
101 100

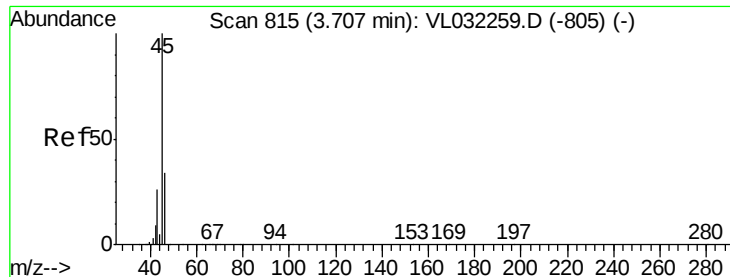
103 61.0 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 2.255 ppbv

RT: 3.72 min Scan# 819

Delta R.T. 0.01 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Instrument :

MSVOA_L

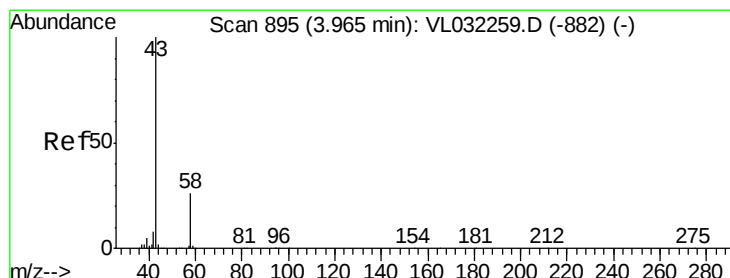
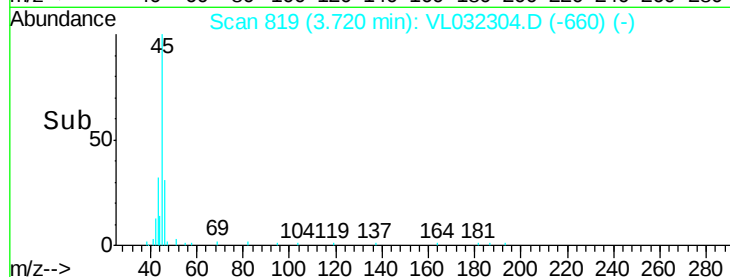
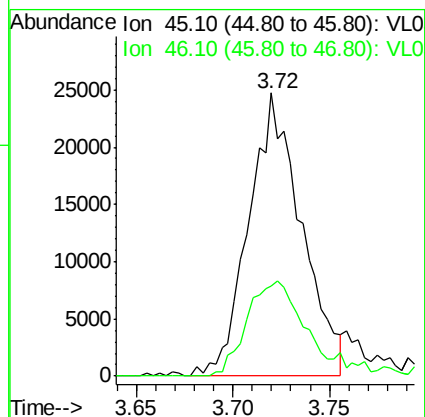
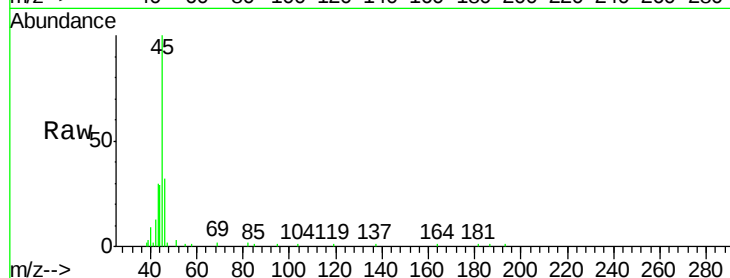
ClientSampleId :

Tot Ion: 45 Resp: 46777

Ion Ratio Lower Upper

45 100

46 40.6 15.2 60.8



#15

Acetone

Concen: 0.645 ppbv

RT: 3.97 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL032304.D

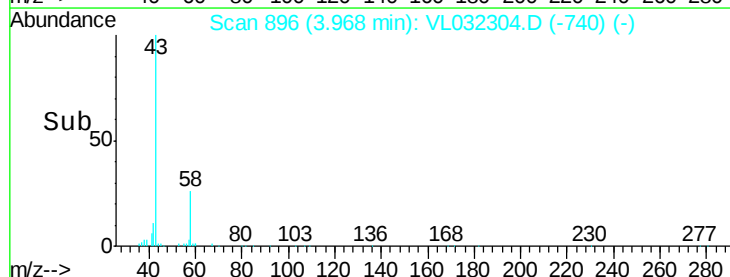
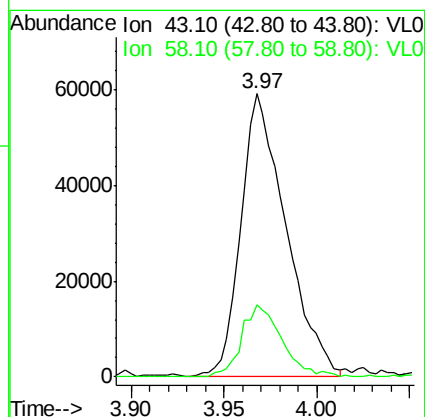
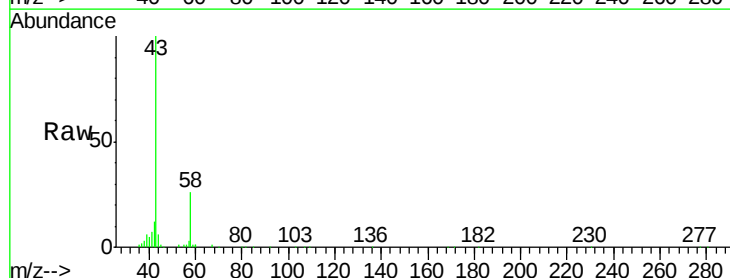
Acq: 20 Jul 2018 1:34

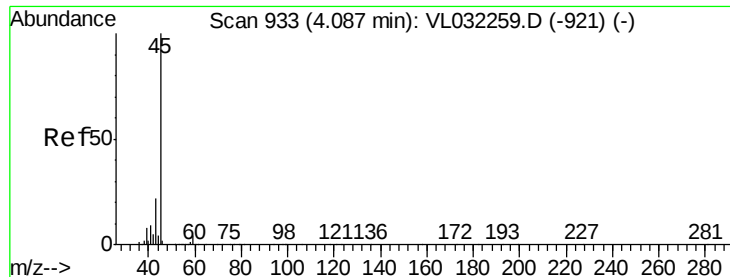
Tgt Ion: 43 Resp: 99957

Ion Ratio Lower Upper

43 100

58 22.8 21.8 32.6





#19

Isopropyl Alcohol

Concen: 0.074 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.03 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Instrument :

MSVOA_L

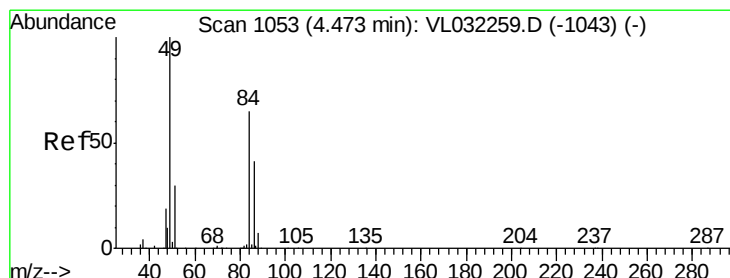
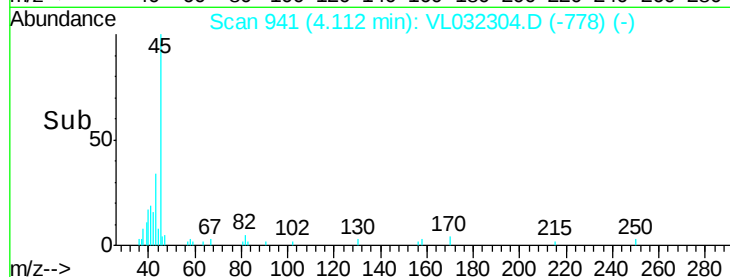
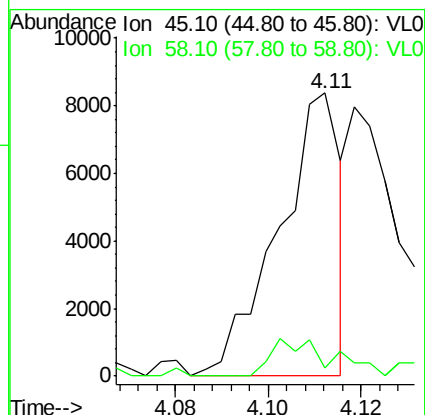
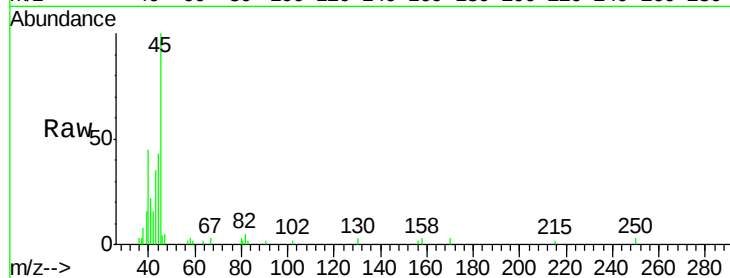
ClientSampleId :

Tot Ion: 45 Resp: 7747

Ion Ratio Lower Upper

45 100

58 17.0 1.5 2.3#



#20

Methylene Chloride

Concen: 0.733 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Tgt Ion: 84 Resp: 43744

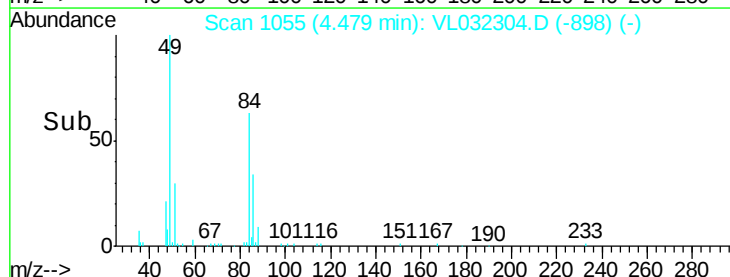
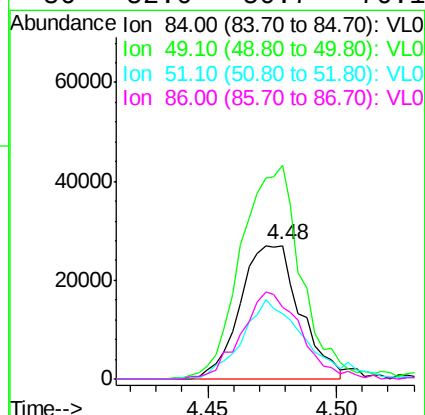
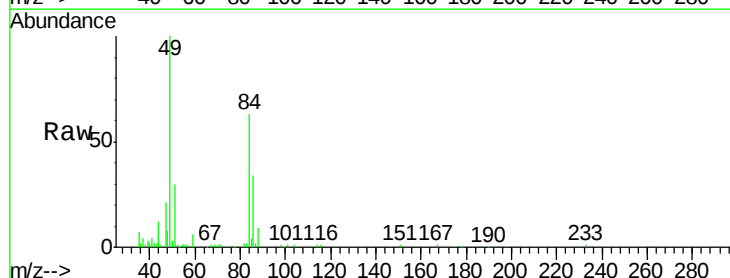
Ion Ratio Lower Upper

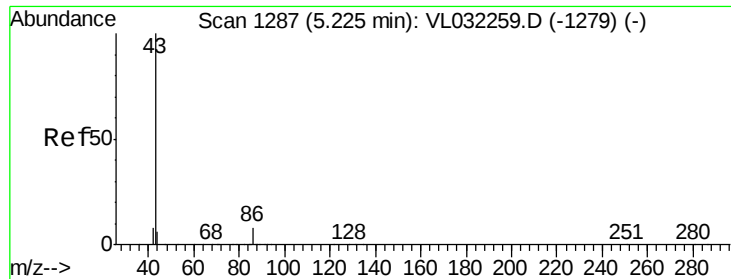
84 100

49 157.3 122.4 183.6

51 47.6 36.8 55.2

86 52.0 50.7 76.1

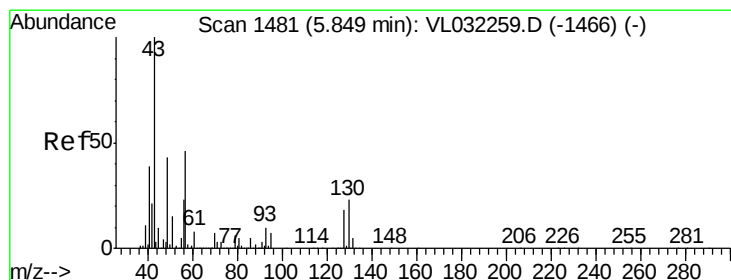
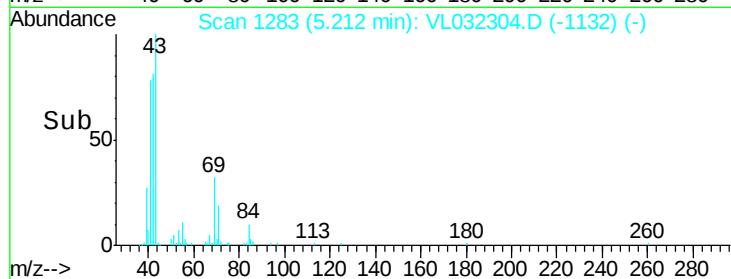
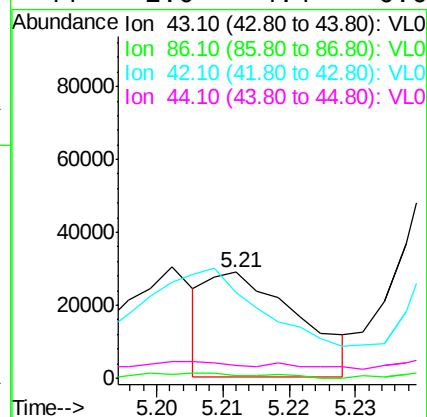
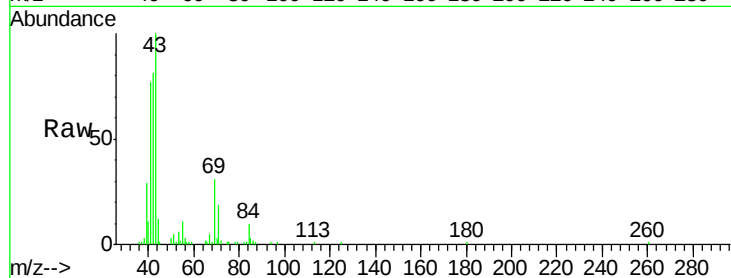




#23
 Vinyl Acetate
 Concen: 0.098 ppbv
 RT: 5.21 min Scan# 1283
 Delta R.T. -0.01 min
 Lab File: VL032304.D
 Acq: 20 Jul 2018 1:34

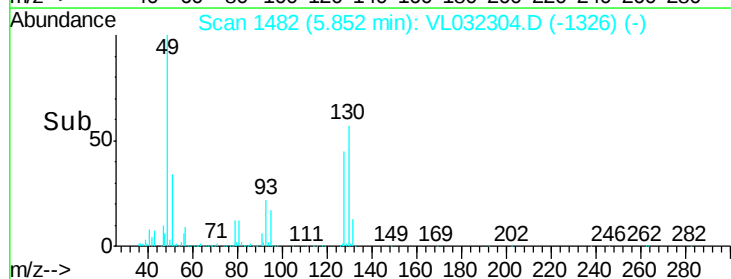
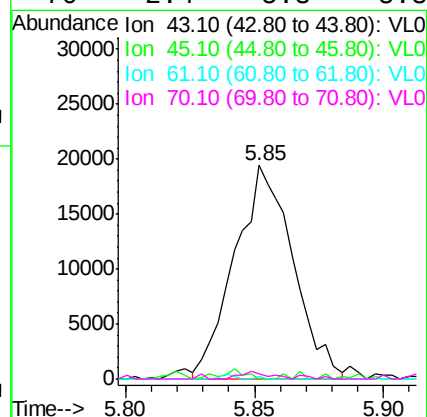
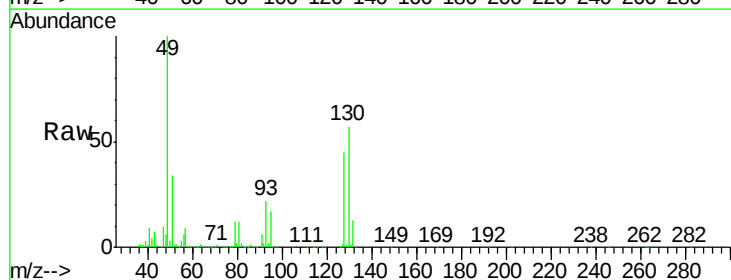
Instrument :
 MSVOA_L
 ClientSampleId :

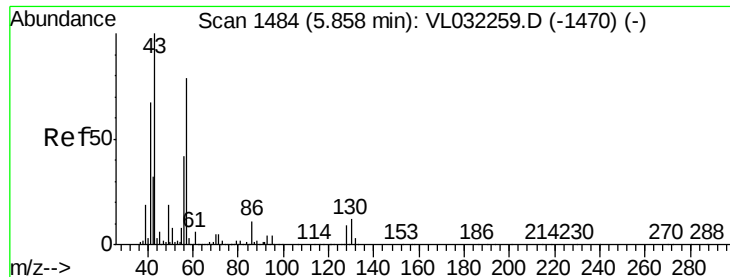
Tot Ion:	43	Resp:	27190
Ion	Ratio	Lower	Upper
43	100		
86	4.1	5.9	8.9#
42	87.2	7.3	10.9#
44	2.0	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 0.091 ppbv
 RT: 5.85 min Scan# 1482
 Delta R.T. 0.00 min
 Lab File: VL032304.D
 Acq: 20 Jul 2018 1:34

Tgt Ion:	43	Resp:	30626
Ion	Ratio	Lower	Upper
43	100		
45	2.1	7.9	11.9#
61	0.7	7.6	11.4#
70	2.4	5.8	8.8#

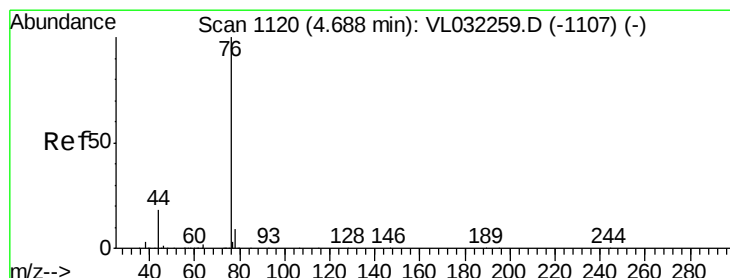
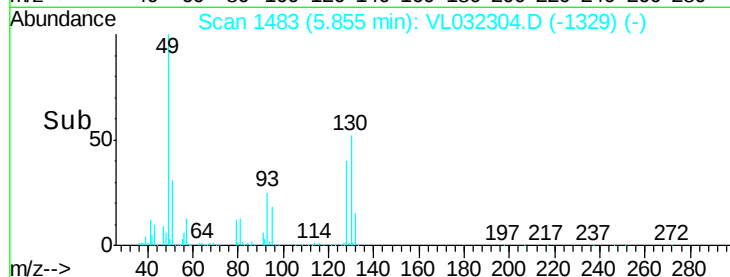
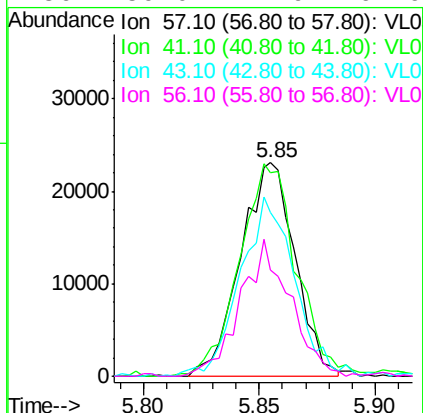
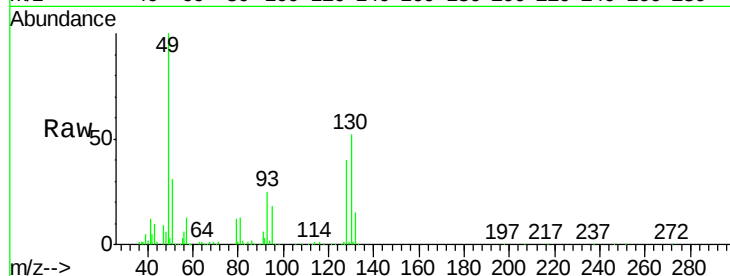




#26
Hexane
Concen: 0.243 ppbv
RT: 5.85 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032304.D
Acq: 20 Jul 2018 1:34

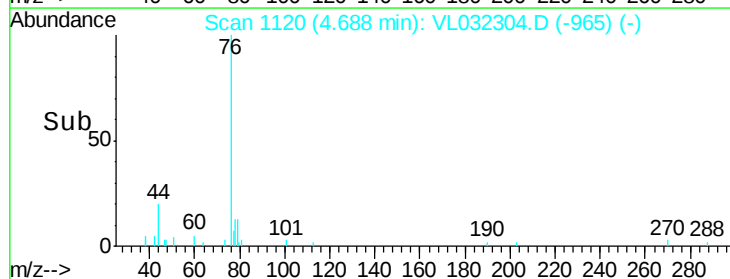
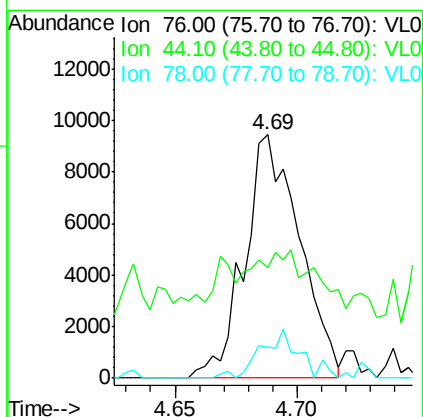
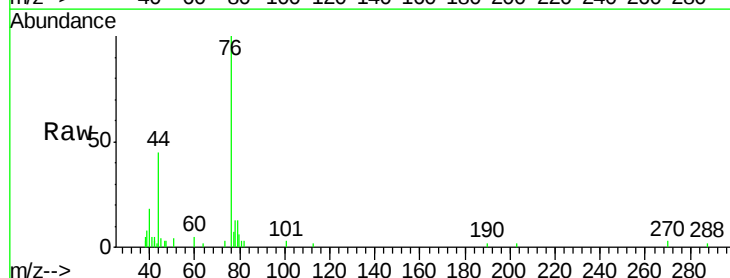
Instrument :
MSVOA_L
ClientSampleId :

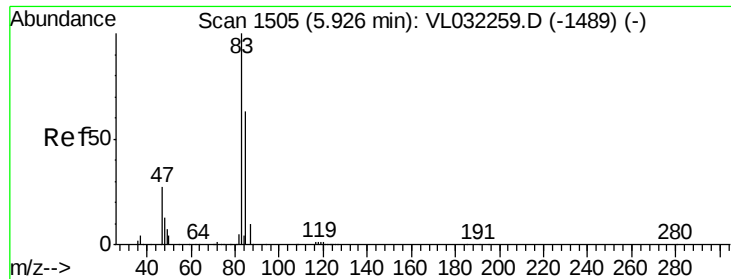
Tot Ion: 57 Resp: 37662
Ion Ratio Lower Upper
57 100
41 110.0 67.9 101.9#
43 84.8 175.9 263.9#
56 59.0 41.9 62.9



#27
Carbon Disulfide
Concen: 0.107 ppbv
RT: 4.69 min Scan# 1120
Delta R.T. -0.00 min
Lab File: VL032304.D
Acq: 20 Jul 2018 1:34

Tgt Ion: 76 Resp: 14692
Ion Ratio Lower Upper
76 100
44 54.4 14.3 21.5#
78 15.8 7.4 11.0#

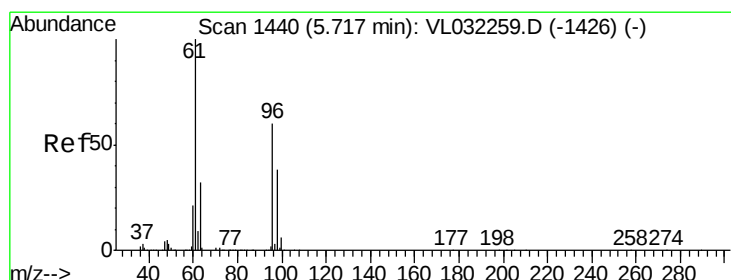
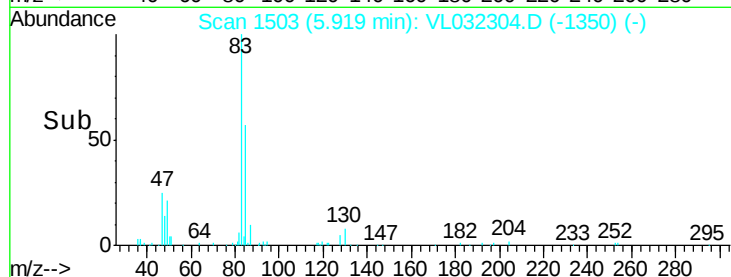
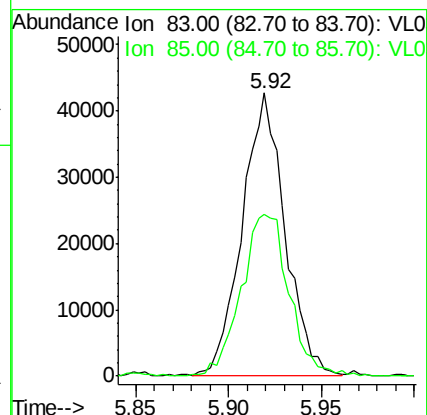
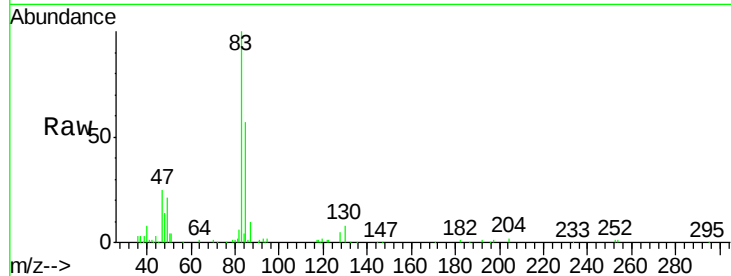




#29
Chloroform
Concen: 0.301 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.01 min
Lab File: VL032304.D
Acq: 20 Jul 2018 1:34

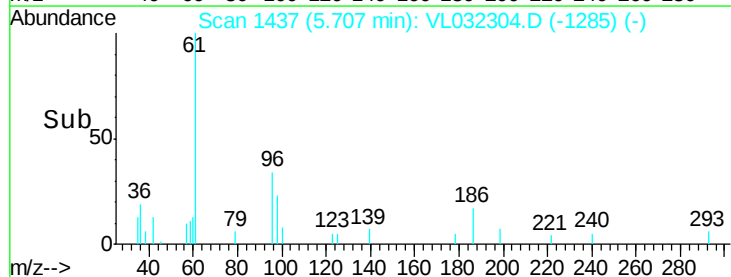
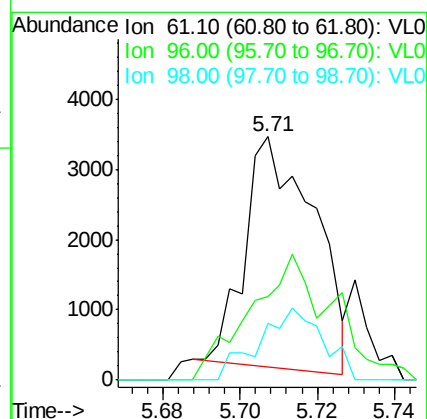
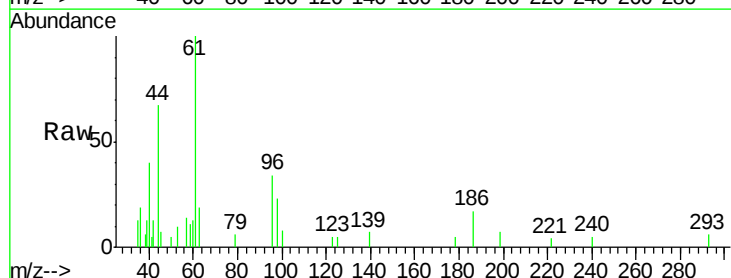
Instrument :
MSVOA_L
ClientSampleId :

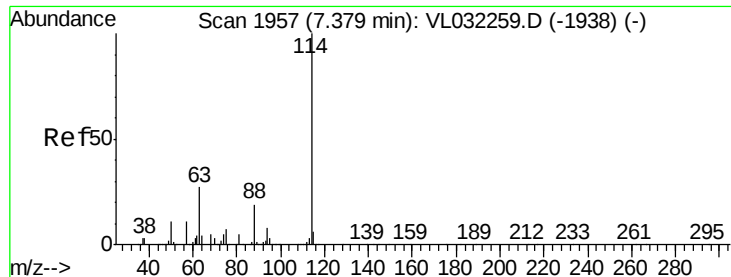
Tot Ion: 83 Resp: 68688
Ion Ratio Lower Upper
83 100
85 56.5 50.7 76.1



#31
cis-1,2-Dichloroethene
Concen: 0.027 ppbv
RT: 5.71 min Scan# 1437
Delta R.T. -0.01 min
Lab File: VL032304.D
Acq: 20 Jul 2018 1:34

Tgt Ion: 61 Resp: 4078
Ion Ratio Lower Upper
61 100
96 37.6 47.9 71.9#
98 25.6 30.5 45.7#

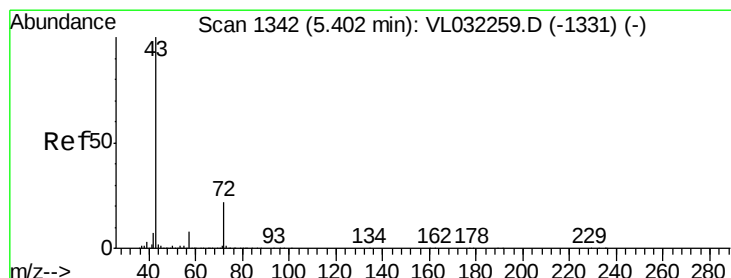
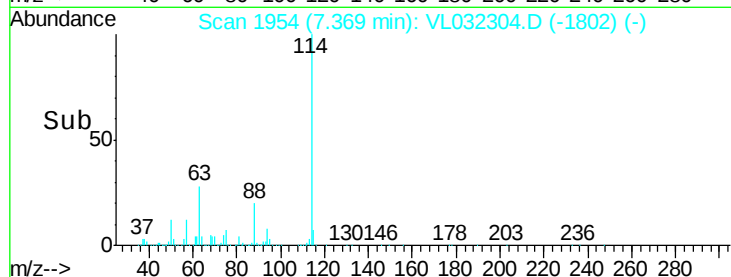
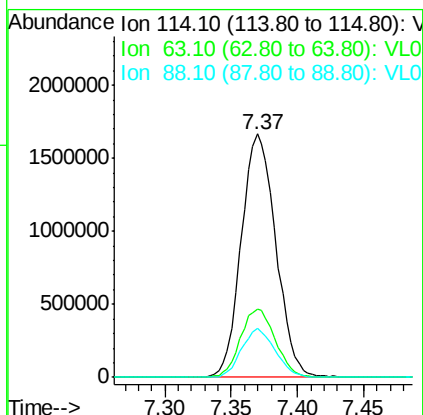
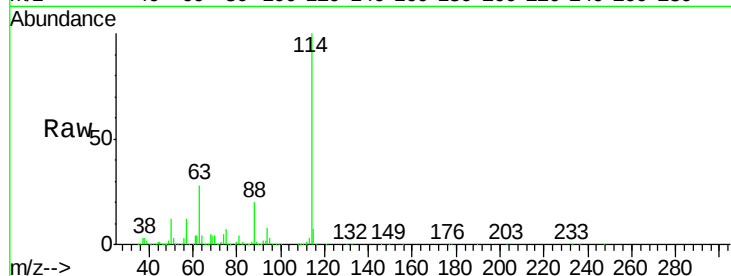




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.01 min
 Lab File: VL032304.D
 Acq: 20 Jul 2018 1:34

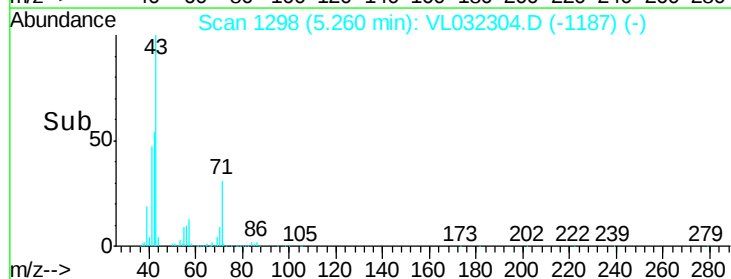
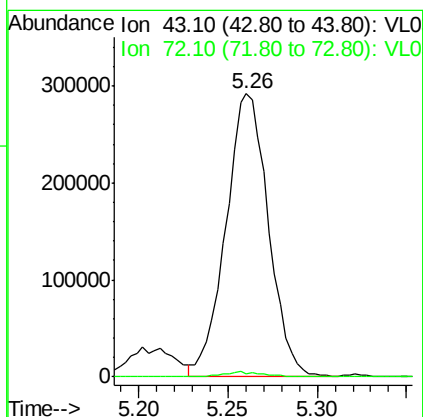
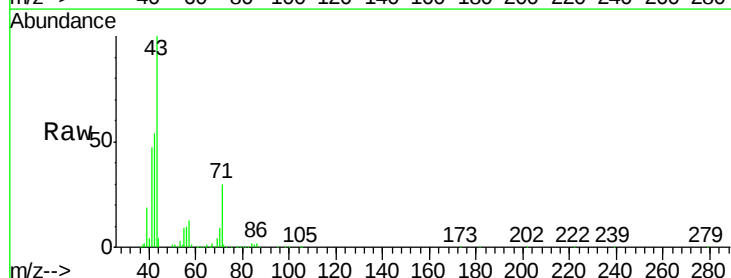
Instrument :
 MSVOA_L
 ClientSampleId :

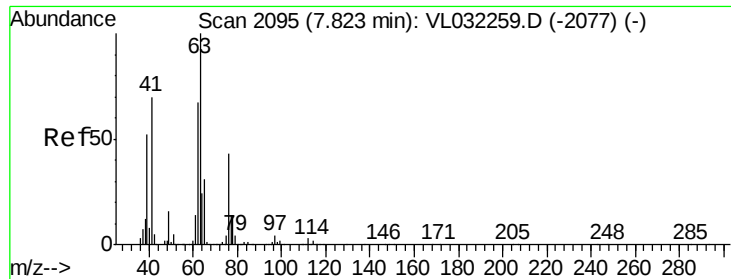
Tot Ion:114 Resp: 3029143
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.6 33.8
 88 19.4 15.2 22.8



#34
 2-Butanone
 Concen: 2.315 ppbv
 RT: 5.26 min Scan# 1298
 Delta R.T. -0.14 min
 Lab File: VL032304.D
 Acq: 20 Jul 2018 1:34

Tgt Ion: 43 Resp: 481128
 Ion Ratio Lower Upper
 43 100
 72 2.0 17.7 26.5#





#39

1,2-Dichloropropane

Concen: 7.261 ppbv

RT: 7.37 min Scan# 1954

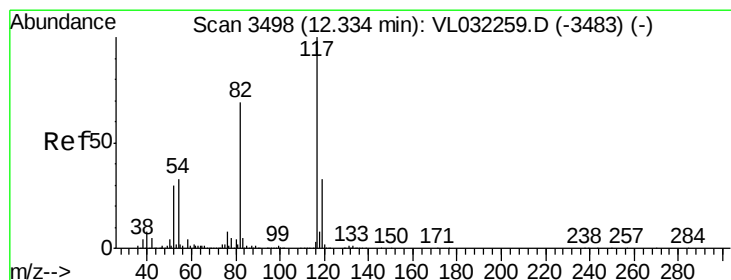
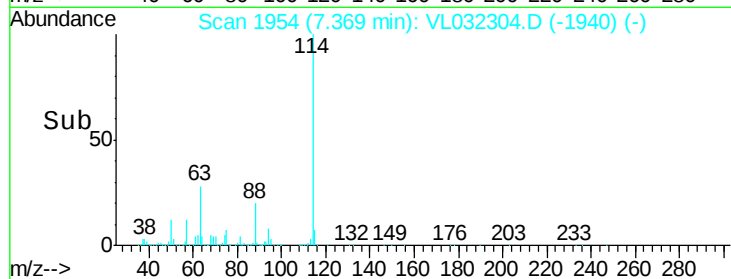
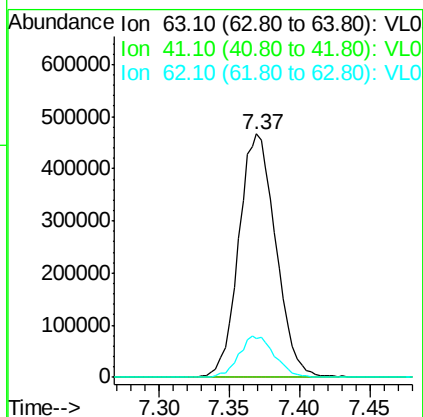
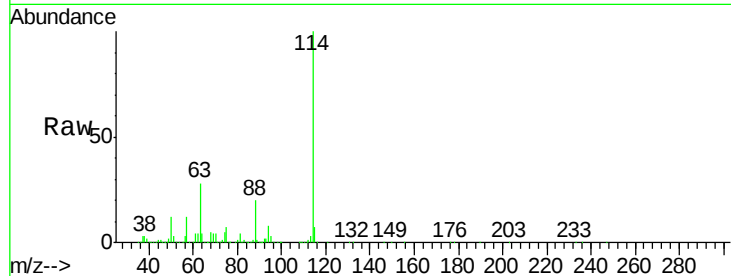
Delta R.T. -0.45 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	63	Resp:	857127
Ion	Ratio	Lower	Upper
63	100		
41	0.1	55.8	83.6#
62	16.1	53.8	80.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

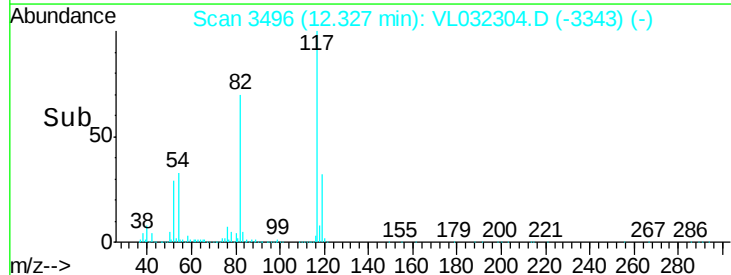
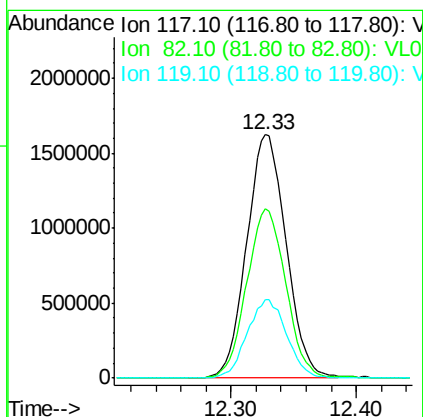
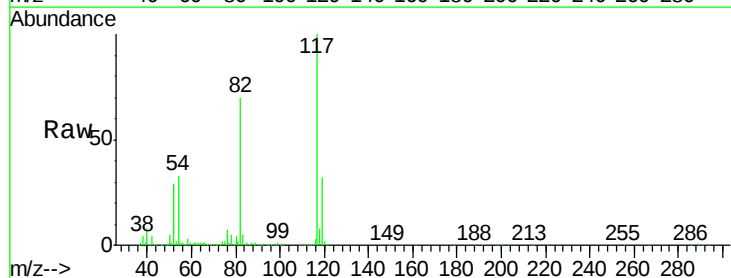
RT: 12.33 min Scan# 3496

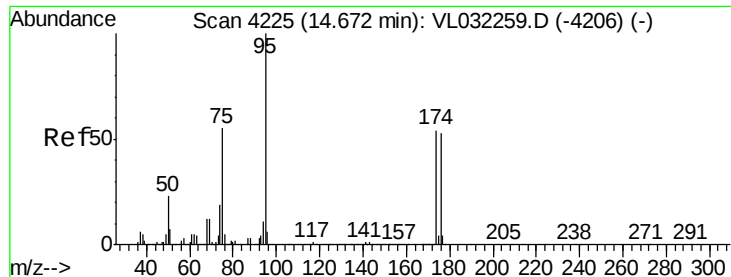
Delta R.T. -0.01 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Tgt Ion:	117	Resp:	3550025
Ion	Ratio	Lower	Upper
117	100		
82	69.6	53.9	80.9
119	32.6	25.5	38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.694 ppbv

RT: 14.66 min Scan# 4223

Delta R.T. -0.01 min

Lab File: VL032304.D

Acq: 20 Jul 2018 1:34

Instrument :

MSVOA_L

ClientSampleId :

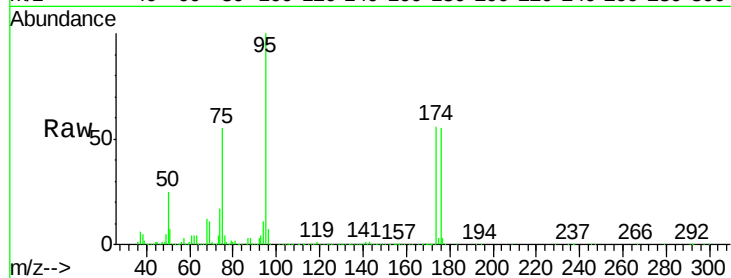
Tot Ion: 95 Resp: 2790249

Ion Ratio Lower Upper

95 100

174 56.0 44.3 66.5

175 3.9 3.3 4.9



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

