

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032284.D
 Acq On : 19 Jul 2018 6:24
 Operator : SY/AP
 Sample : J3454-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 19 07:48:25 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	1645489	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3337482	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4003873	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	3072291	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

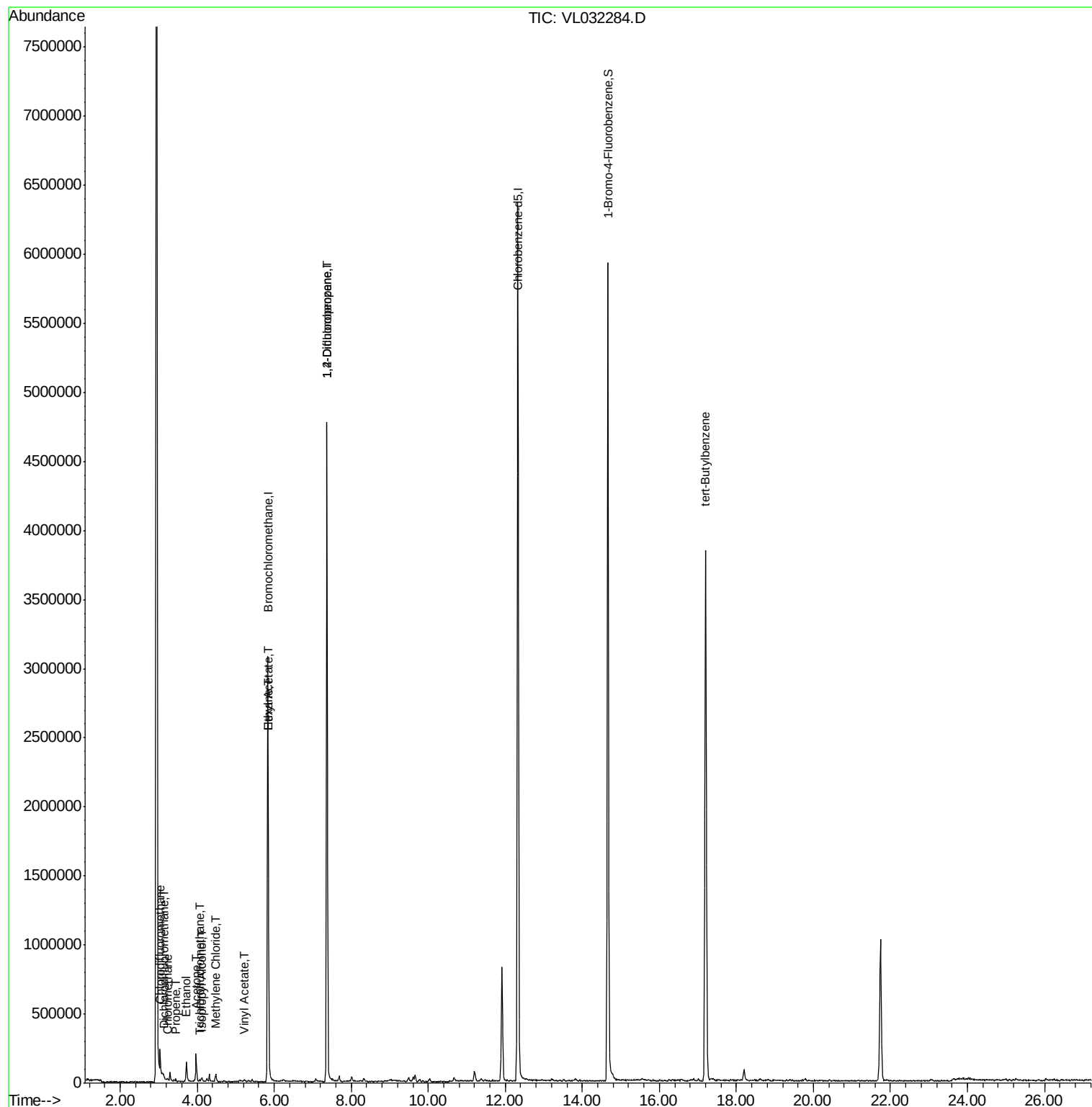
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	19702	0.070	ppbv	93
3) Chlorodifluoromethane	3.04	51	121224	0.656	ppbv #	67
4) Chloromethane	3.22	50	3841	0.035	ppbv	90
9) Propene	3.45	41	3420	0.042	ppbv	94
11) Trichlorofluoromethane	4.06	101	4812	0.022	ppbv	91
13) Ethanol	3.72	45	154633	6.706	ppbv	100
15) Acetone	3.97	43	188201	1.093	ppbv	94
19) Isopropyl Alcohol	4.12	45	31913	0.274	ppbv #	81
20) Methylene Chloride	4.47	84	6684	0.101	ppbv	97
23) Vinyl Acetate	5.22	43	7296	0.024	ppbv #	82
25) Ethyl Acetate	5.86	43	84107	0.224	ppbv #	84
26) Hexane	5.86	57	98721	0.573	ppbv #	45
39) 1,2-Dichloropropane	7.37	63	941740	7.241	ppbv #	25
65) tert-Butylbenzene	17.20	119	89143	0.152	ppbv #	16

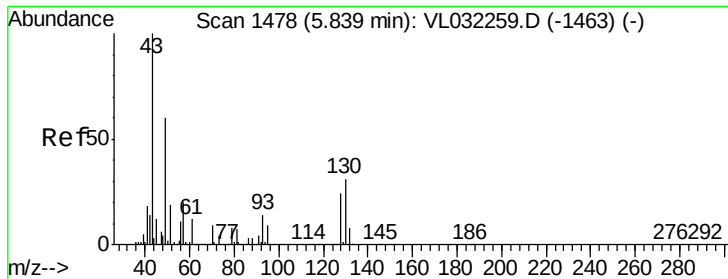
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL032284.D

Acq: 19 Jul 2018 6:24

Instrument :

MSVOA_L

ClientSampleId :

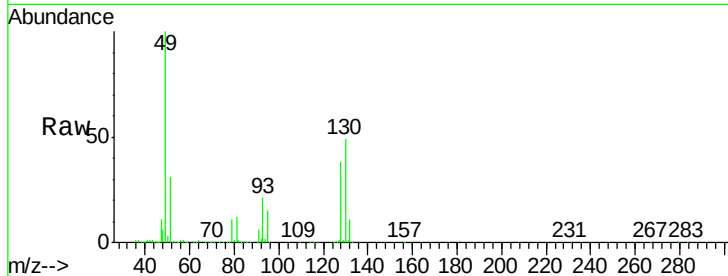
Tot Ion: 49 Resp: 1645489

Ion Ratio Lower Upper

49 100

128 39.4 20.1 60.2

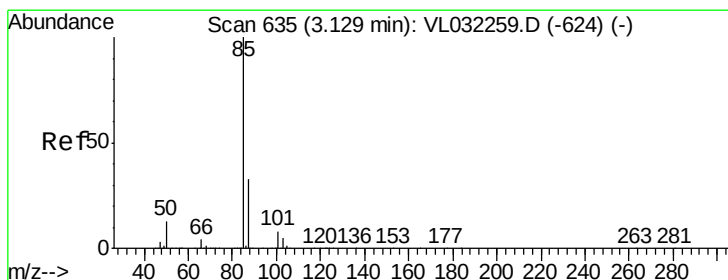
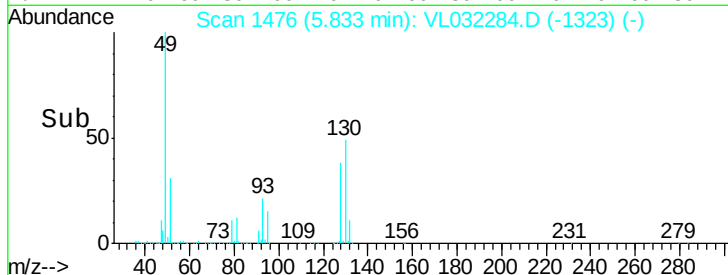
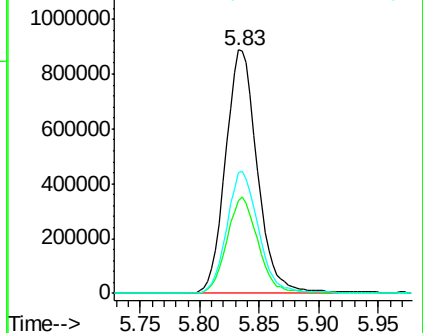
130 50.4 25.9 77.6



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



#2

Dichlorodifluoromethane

Concen: 0.070 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032284.D

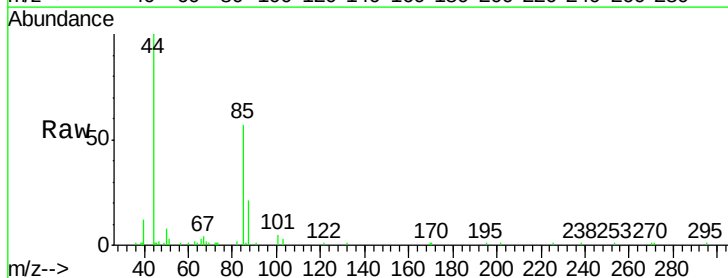
Acq: 19 Jul 2018 6:24

Tgt Ion: 85 Resp: 19702

Ion Ratio Lower Upper

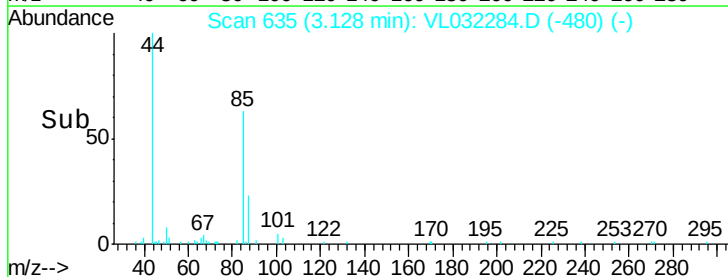
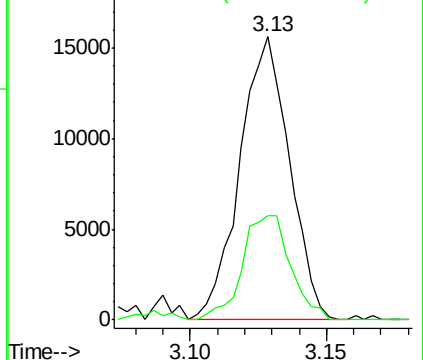
85 100

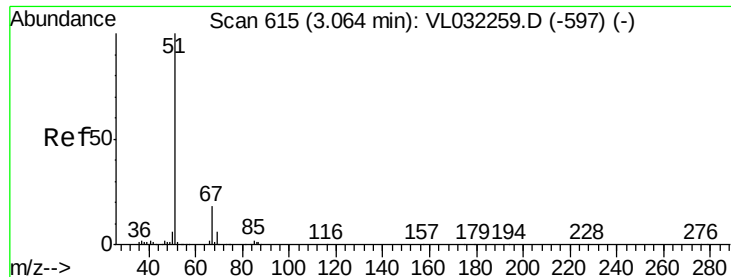
87 36.7 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.656 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.03 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

Instrument :

MSVOA_L

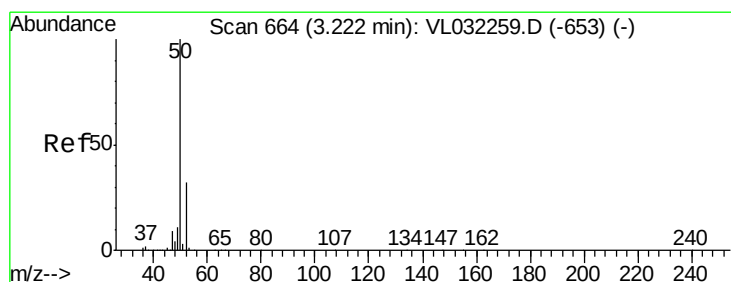
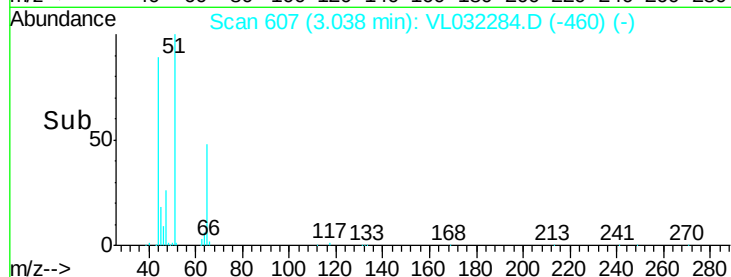
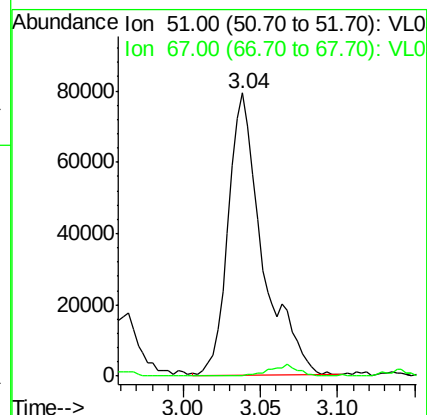
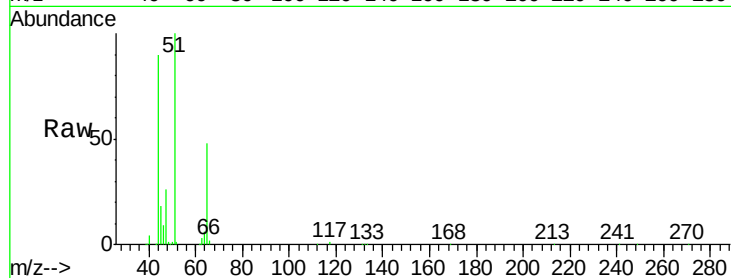
ClientSampleId :

Tot Ion: 51 Resp: 121224

Ion Ratio Lower Upper

51 100

67 3.4 14.2 21.4#



#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL032284.D

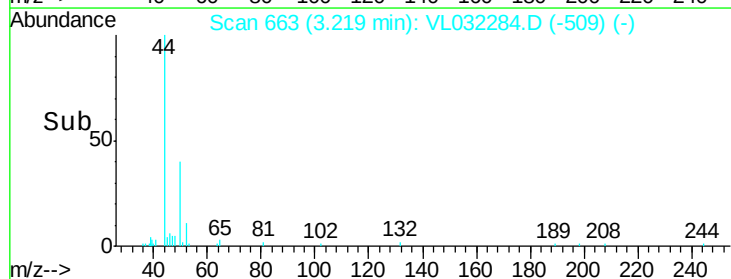
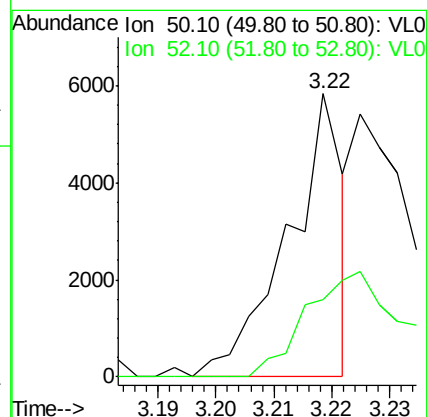
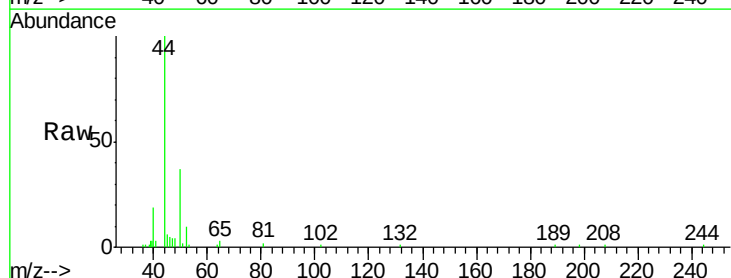
Acq: 19 Jul 2018 6:24

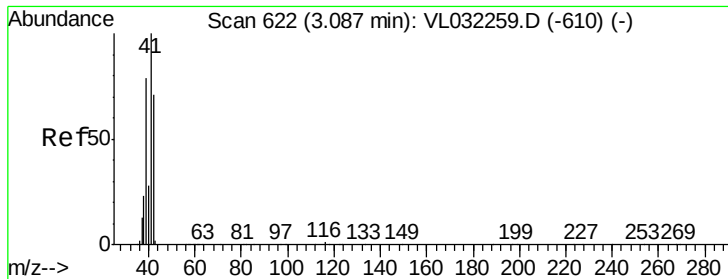
Tgt Ion: 50 Resp: 3841

Ion Ratio Lower Upper

50 100

52 26.1 25.3 37.9





#9

Propene

Concen: 0.042 ppbv

RT: 3.45 min Scan# 735

Delta R.T. 0.36 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

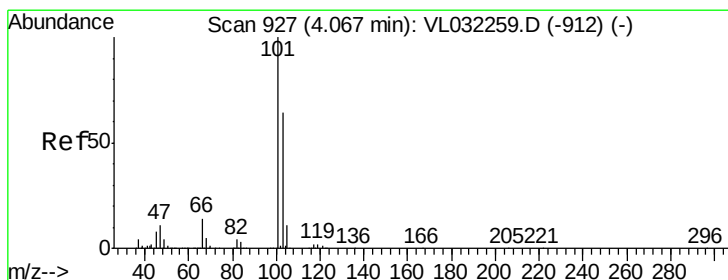
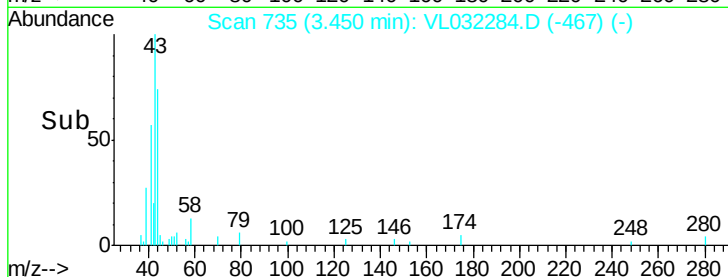
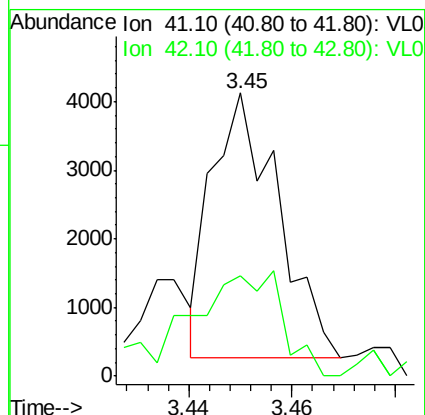
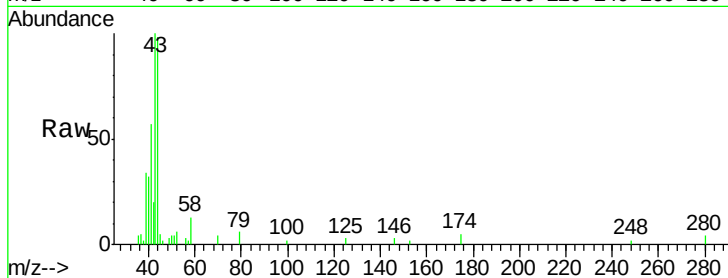
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 3420

Ion Ratio Lower Upper

41 100

42 65.4 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.022 ppbv

RT: 4.06 min Scan# 926

Delta R.T. -0.00 min

Lab File: VL032284.D

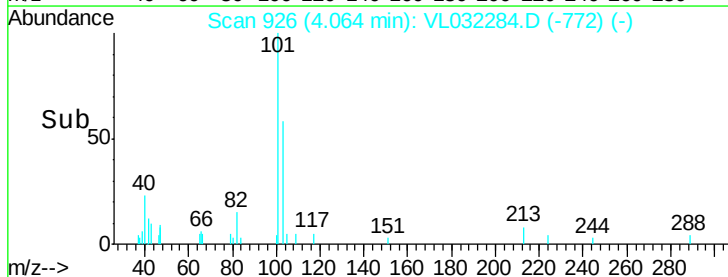
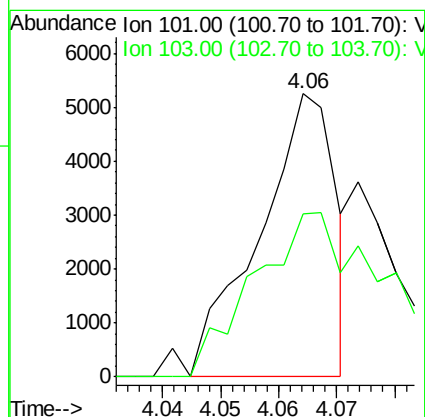
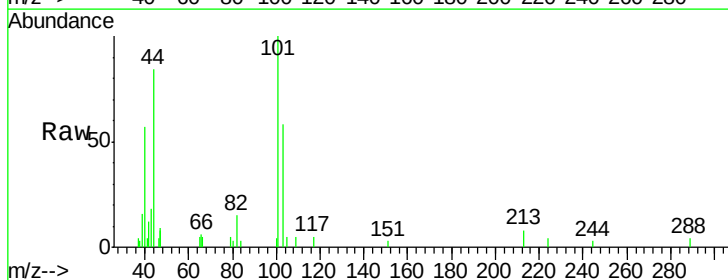
Acq: 19 Jul 2018 6:24

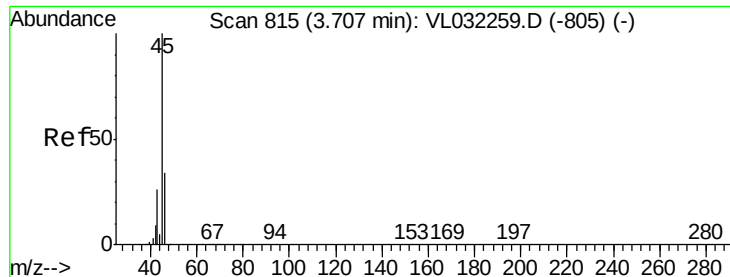
Tgt Ion: 101 Resp: 4812

Ion Ratio Lower Upper

101 100

103 57.7 51.5 77.3

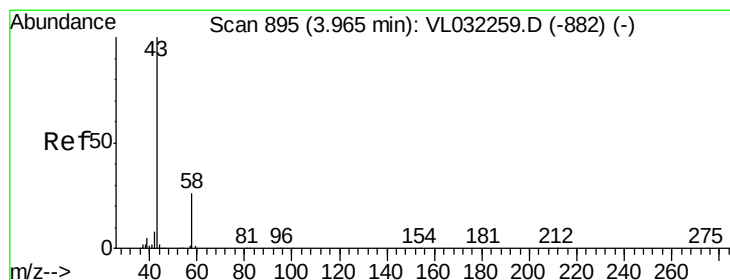
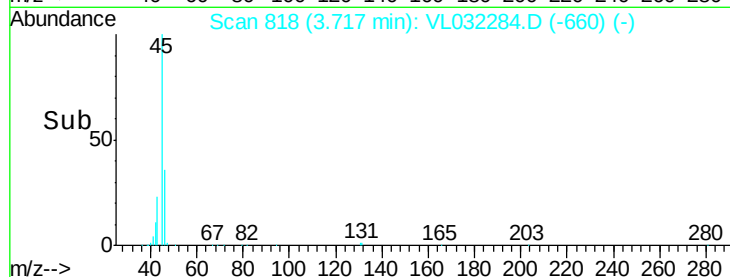
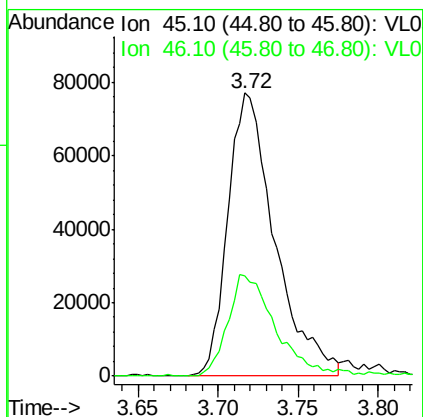
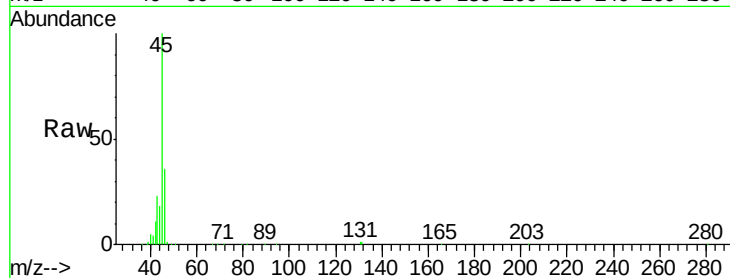




#13
Ethanol
Concen: 6.706 ppbv
RT: 3.72 min Scan# 818
Delta R.T. 0.01 min
Lab File: VL032284.D
Acq: 19 Jul 2018 6:24

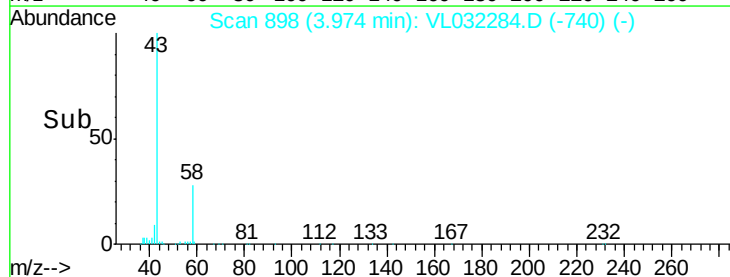
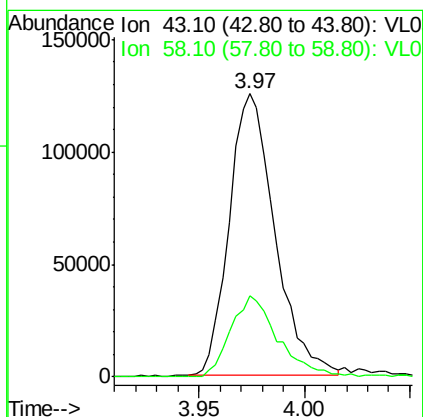
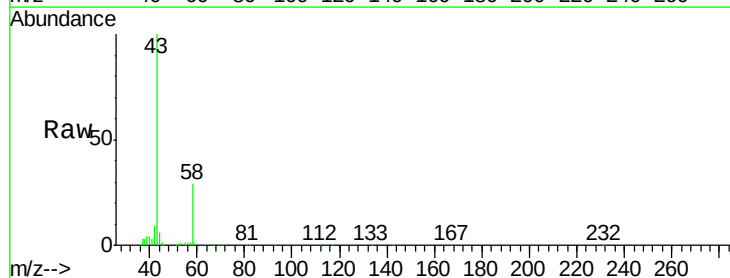
Instrument :
MSVOA_L
ClientSampleId :

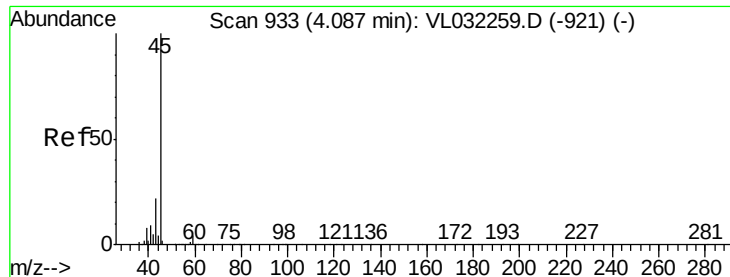
Tot Ion: 45 Resp: 154633
Ion Ratio Lower Upper
45 100
46 38.0 15.2 60.8



#15
Acetone
Concen: 1.093 ppbv
RT: 3.97 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL032284.D
Acq: 19 Jul 2018 6:24

Tgt Ion: 43 Resp: 188201
Ion Ratio Lower Upper
43 100
58 30.1 21.8 32.6





#19

Isopropyl Alcohol

Concen: 0.274 ppbv

RT: 4.12 min Scan# 942

Delta R.T. 0.03 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

Instrument :

MSVOA_L

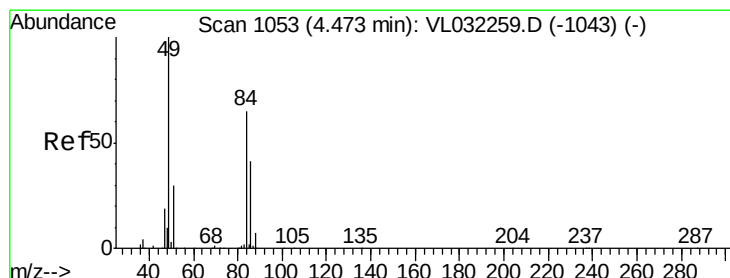
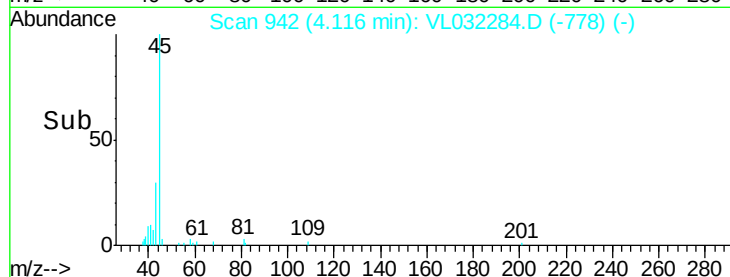
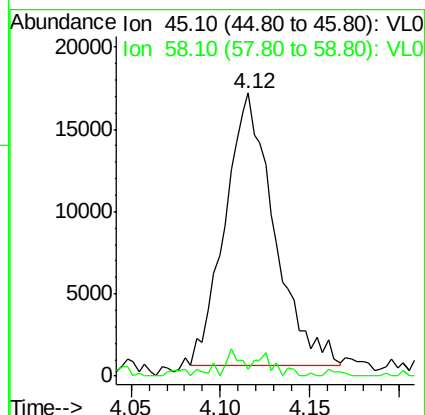
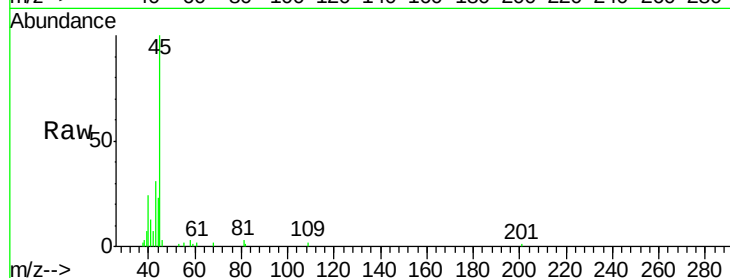
ClientSampleId :

Tot Ion: 45 Resp: 31913

Ion Ratio Lower Upper

45 100

58 8.8 1.5 2.3#



#20

Methylene Chloride

Concen: 0.101 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

Tgt Ion: 84 Resp: 6684

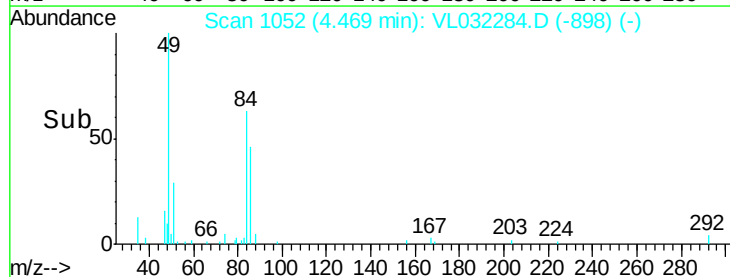
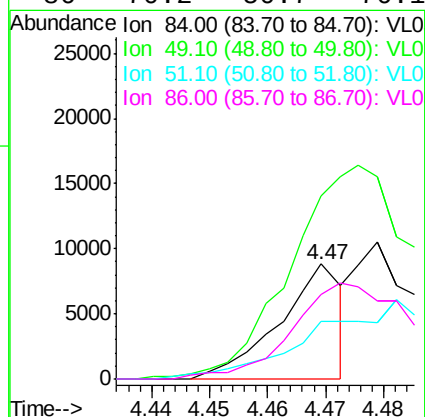
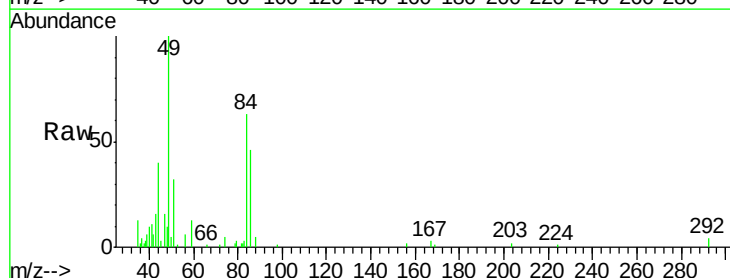
Ion Ratio Lower Upper

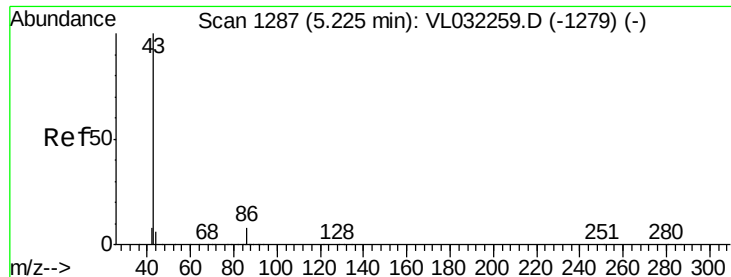
84 100

49 154.8 122.4 183.6

51 46.1 36.8 55.2

86 70.2 50.7 76.1





#23

Vinyl Acetate

Concen: 0.024 ppbv

RT: 5.22 min Scan# 1287

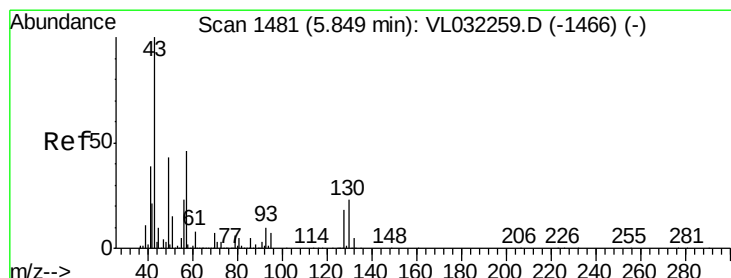
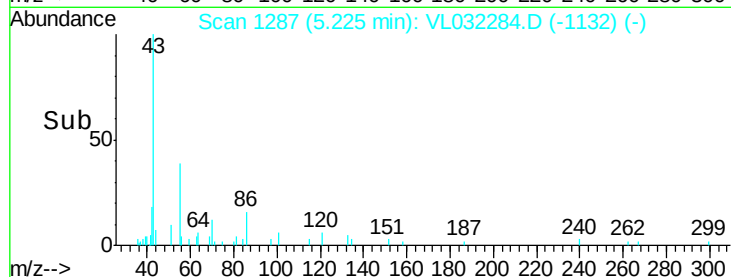
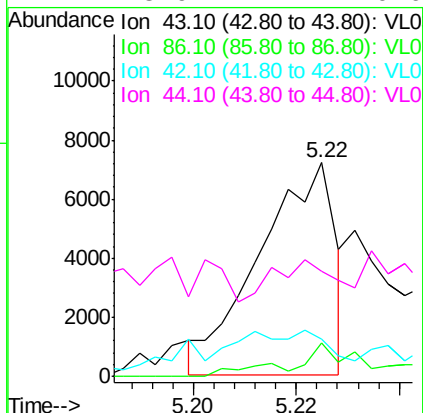
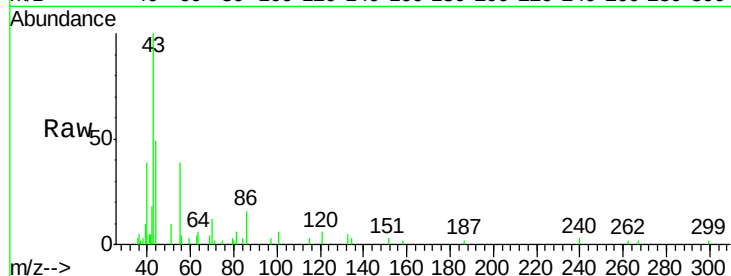
Delta R.T. -0.00 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	7296
Ion	Ratio	Lower	Upper
43	100		
86	18.9	5.9	8.9#
42	9.7	7.3	10.9
44	13.9	4.4	6.6#



#25

Ethyl Acetate

Concen: 0.224 ppbv

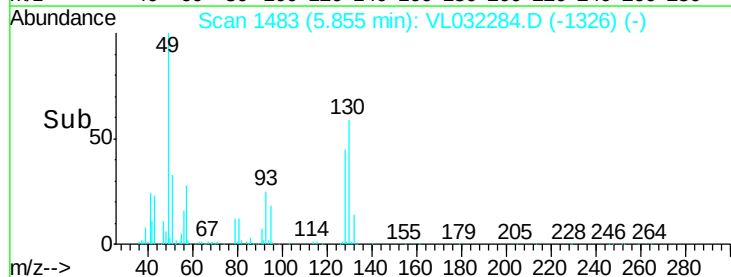
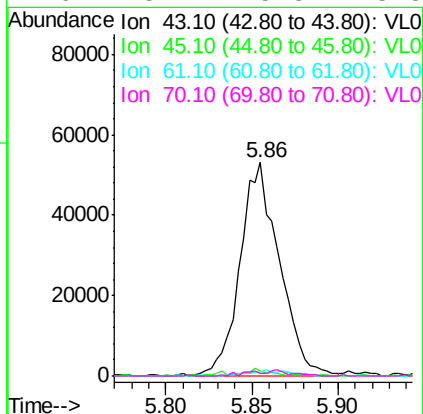
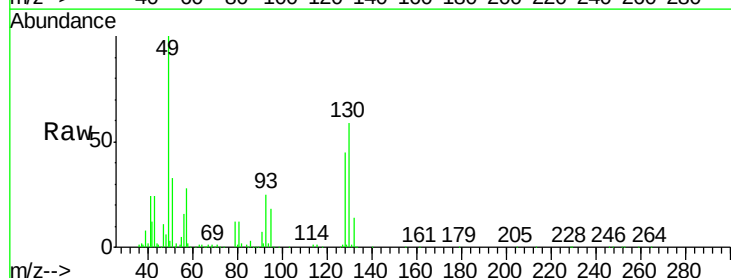
RT: 5.86 min Scan# 1483

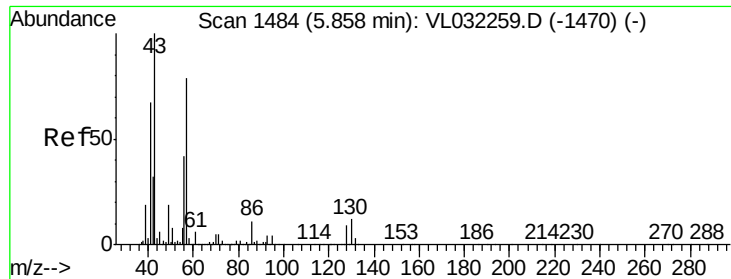
Delta R.T. 0.01 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

Tgt Ion:	43	Resp:	84107
Ion	Ratio	Lower	Upper
43	100		
45	3.6	7.9	11.9#
61	2.8	7.6	11.4#
70	3.1	5.8	8.8#

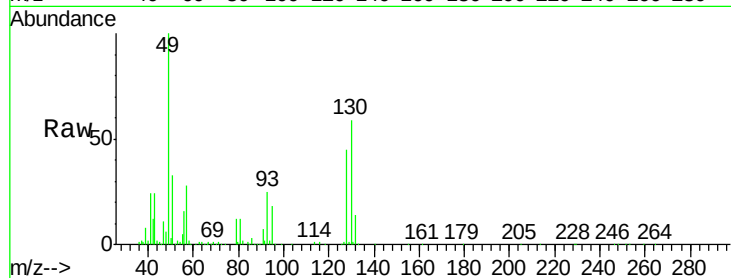




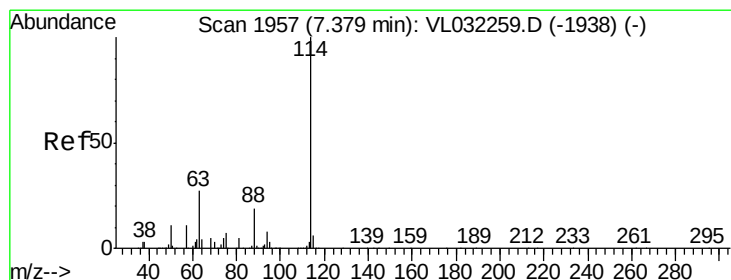
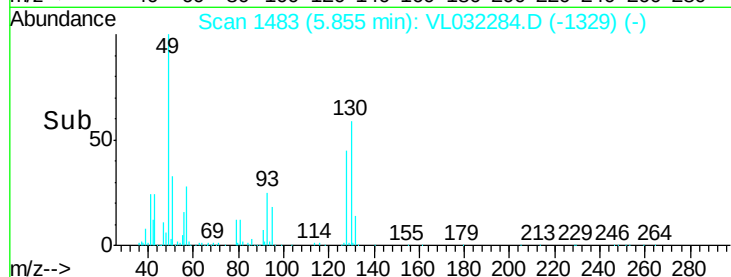
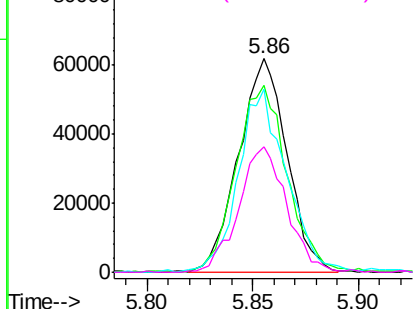
#26
Hexane
Concen: 0.573 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032284.D
Acq: 19 Jul 2018 6:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 98721
Ion Ratio Lower Upper
57 100
41 93.4 67.9 101.9
43 86.4 175.9 263.9#
56 58.4 41.9 62.9

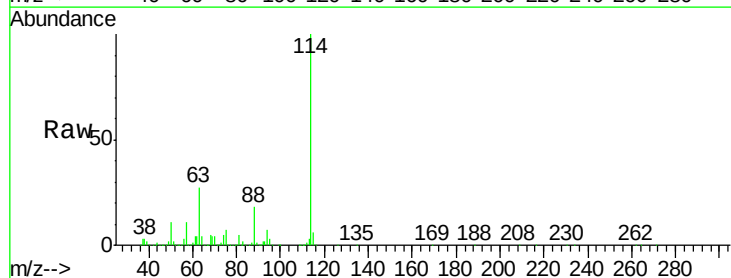


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

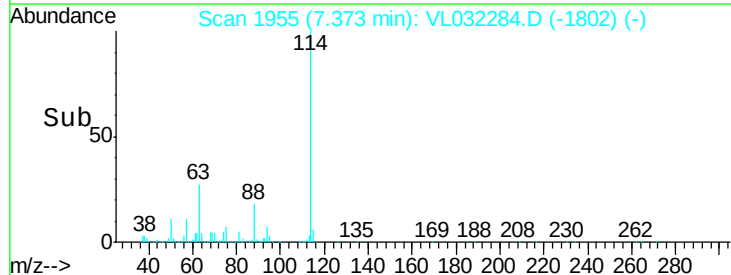
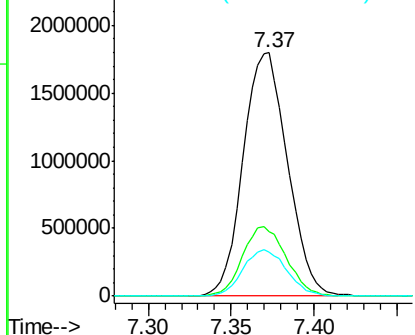


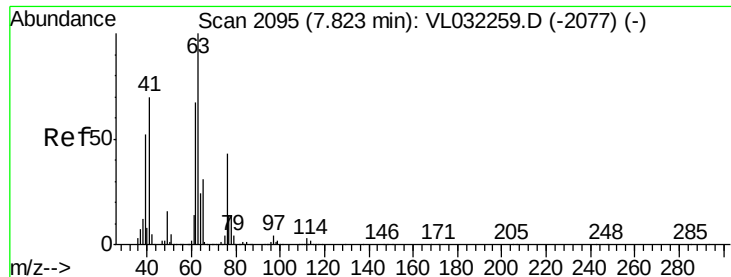
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VL032284.D
Acq: 19 Jul 2018 6:24

Tgt Ion: 114 Resp: 3337482
Ion Ratio Lower Upper
114 100
63 28.5 22.6 33.8
88 19.0 15.2 22.8



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





#39

1,2-Dichloropropane

Concen: 7.241 ppbv

RT: 7.37 min Scan# 1954

Delta R.T. -0.45 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

Instrument :

MSVOA_L

ClientSampleId :

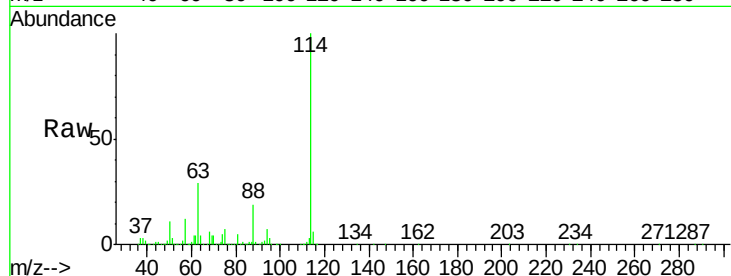
Tot Ion: 63 Resp: 941740

Ion Ratio Lower Upper

63 100

41 0.0 55.8 83.6#

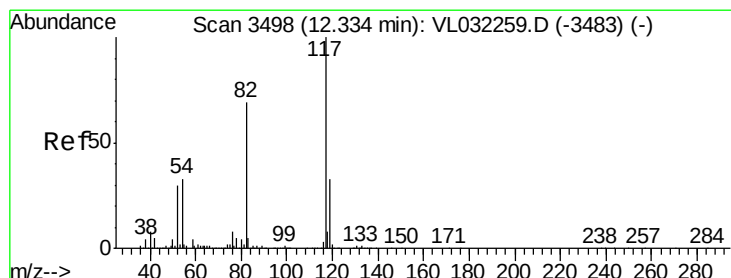
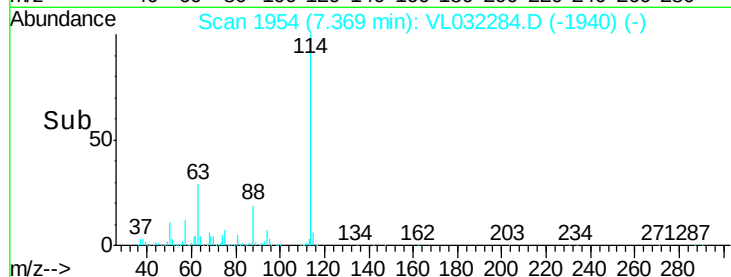
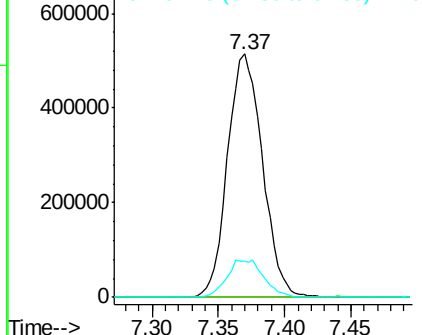
62 14.9 53.8 80.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3496

Delta R.T. -0.01 min

Lab File: VL032284.D

Acq: 19 Jul 2018 6:24

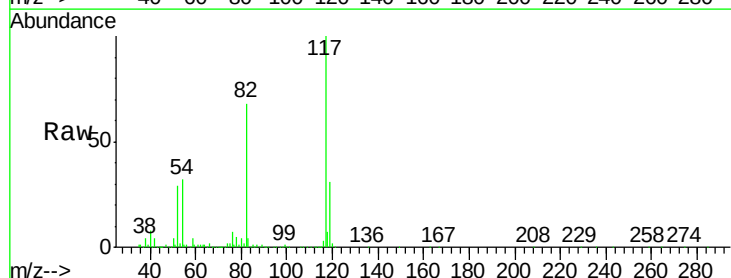
Tgt Ion: 117 Resp: 4003873

Ion Ratio Lower Upper

117 100

82 69.3 53.9 80.9

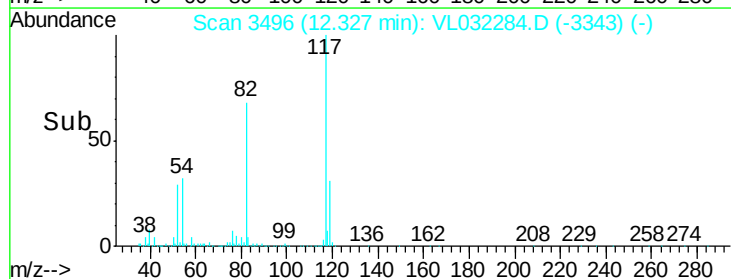
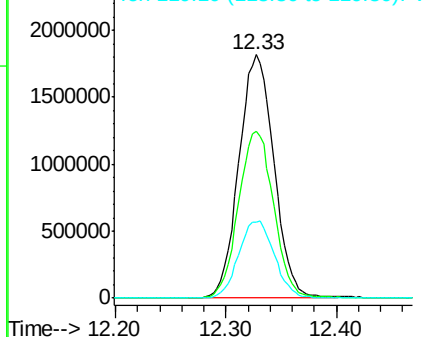
119 32.5 25.5 38.3

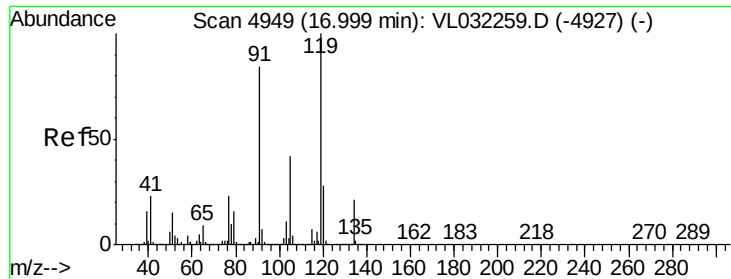


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





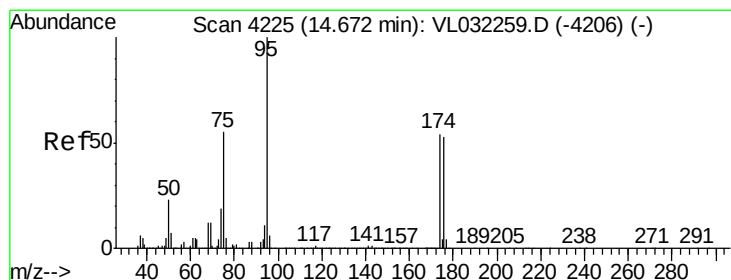
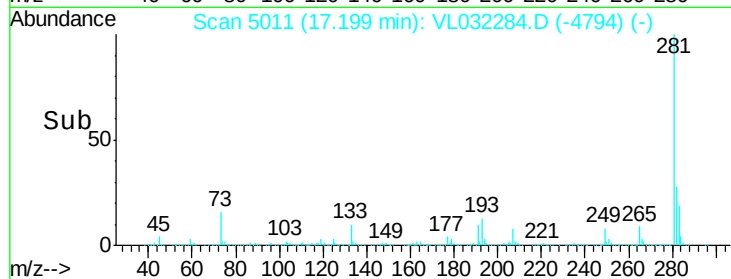
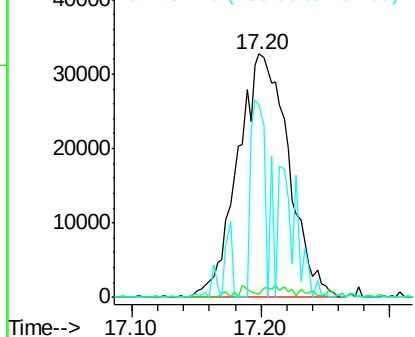
#65
 tert-Butylbenzene
 Concen: 0.152 ppbv
 RT: 17.20 min Scan# 5011
 Delta R.T. 0.20 min
 Lab File: VL032284.D
 Acq: 19 Jul 2018 6:24

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 119 Resp: 89143
 Ion Ratio Lower Upper
 119 100
 91 4.2 68.2 102.4#
 134 49.3 15.6 23.4#

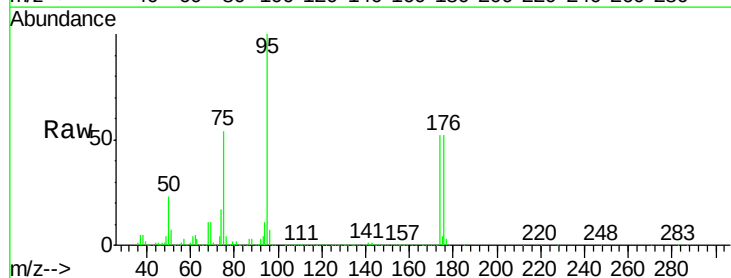


Abundance Ion 119.20 (118.90 to 119.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 134.20 (133.90 to 134.90): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.464 ppbv
 RT: 14.66 min Scan# 4222
 Delta R.T. -0.01 min
 Lab File: VL032284.D
 Acq: 19 Jul 2018 6:24

Tgt Ion: 95 Resp: 3072291
 Ion Ratio Lower Upper
 95 100
 174 56.4 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

