

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071318\
 Data File : VL032254.D
 Acq On : 13 Jul 2018 20:46
 Operator : SY/AP
 Sample : J3753-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

Quant Time: Jul 14 03:19:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 04:25:14 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

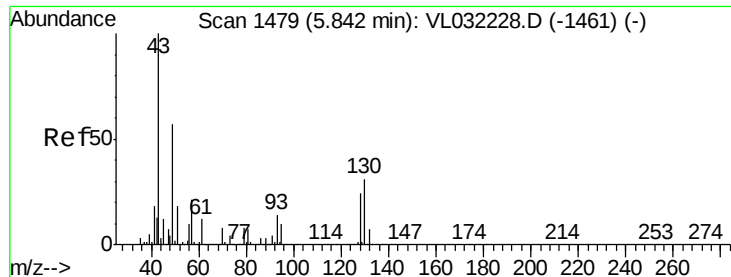
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1562932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3597406	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4001187	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3144497	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.13	85	13836	0.061	ppbv	95
3) Chlorodifluoromethane	2.99	51	9034	0.047	ppbv	97
7) Chloroethane	3.66	64	4495	0.121	ppbv	100
9) Propene	3.09	41	20750	0.253	ppbv	90
10) Heptane	8.34	43	18473	0.079	ppbv	96
11) Trichlorofluoromethane	4.07	101	6771	0.031	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.62	101	80793	0.588	ppbv	99
13) Ethanol	3.71	45	1528457	64.676	ppbv	96
15) Acetone	3.97	43	844435	4.656	ppbv	99
16) 1,3-Butadiene	3.40	39	17599	0.192	ppbv #	12
17) tert-Butyl alcohol	4.43	59	52457	0.619	ppbv #	59
18) 1,1-Dichloroethene	4.41	96	7070	0.110	ppbv #	77
19) Isopropyl Alcohol	4.09	45	791677	6.648	ppbv	99
20) Methylene Chloride	4.48	84	58247	0.948	ppbv	88
23) Vinyl Acetate	5.22	43	54006	0.179	ppbv #	82
24) 1,1-Dichloroethane	5.16	63	296796	1.401	ppbv	98
25) Ethyl Acetate	5.86	43	63358	0.177	ppbv #	94
26) Hexane	5.86	57	59200	0.362	ppbv #	57
30) Cyclohexane	7.33	84	4631	0.032	ppbv #	1
32) 1,1,1-Trichloroethane	6.70	97	3246116	13.236	ppbv	99
34) 2-Butanone	5.41	43	144534	0.590	ppbv	98
36) Benzene	7.08	78	7289	0.020	ppbv	96
37) 1,2-Dichloroethane	6.70	62	229495	1.172	ppbv #	1
39) 1,2-Dichloropropane	7.38	63	975124	6.863	ppbv #	26
44) 2,2,4-Trimethylpentane	8.07	57	61071	0.099	ppbv #	32
53) Toluene	10.04	91	186830	0.442	ppbv	98
59) m/p-Xylene	13.25	91	21762	0.045	ppbv #	31
60) o-Xylene	13.94	91	53365	0.113	ppbv	96
69) p-Isopropyltoluene	17.92	119	101879	0.161	ppbv	94
74) 1,2,4-Trimethylbenzene	17.02	105	28488	0.056	ppbv #	55
75) 1,3-Dichlorobenzene	17.26	146	121568	0.404	ppbv	95
76) 1,4-Dichlorobenzene	17.26	146	121568	0.412	ppbv	91

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

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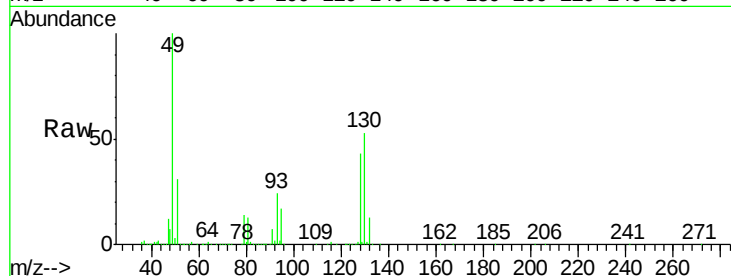
Tgt Ion: 49 Resp: 1562932

Ion Ratio Lower Upper

49 100

128 43.1 20.9 62.8

130 54.3 27.0 81.0



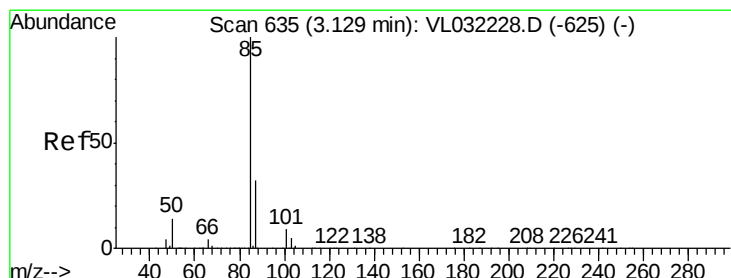
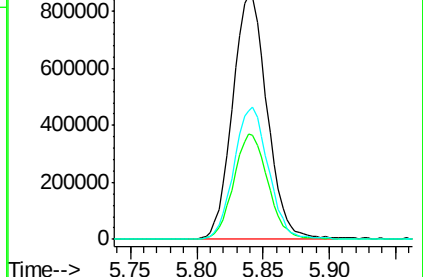
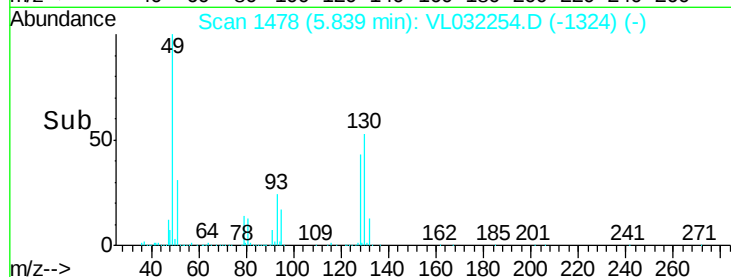
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.84

Time-->



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.13 min Scan# 636

Delta R.T. 0.00 min

Lab File: VL032254.D

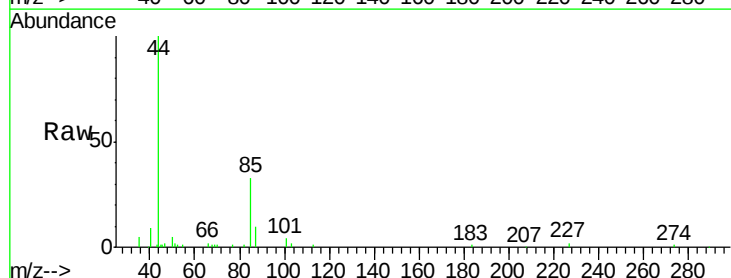
Acq: 13 Jul 2018 20:46

Tgt Ion: 85 Resp: 13836

Ion Ratio Lower Upper

85 100

87 29.3 25.8 38.6

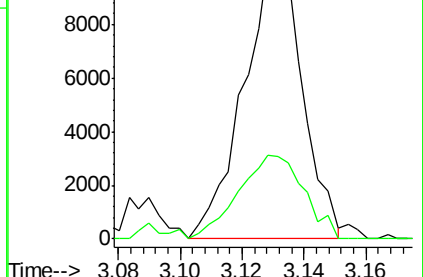
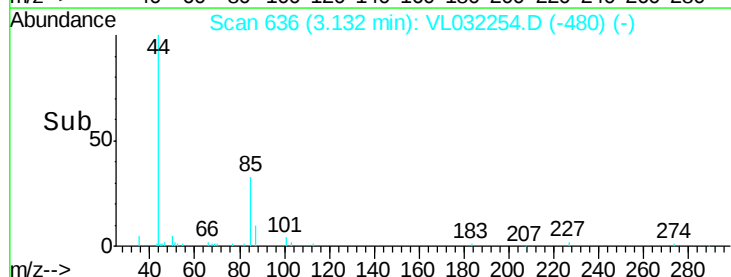


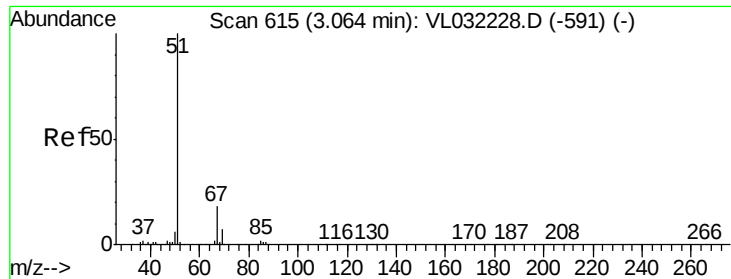
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

Time-->





#3

Chlorodifluoromethane

Concen: 0.047 ppbv

RT: 2.99 min Scan# 593

Delta R.T. -0.07 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

Instrument :

MSVOA_L

ClientSampleId :

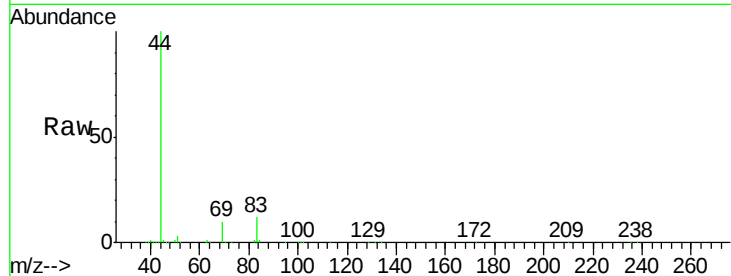
INFLUENTDL

Tgt Ion: 51 Resp: 9034

Ion Ratio Lower Upper

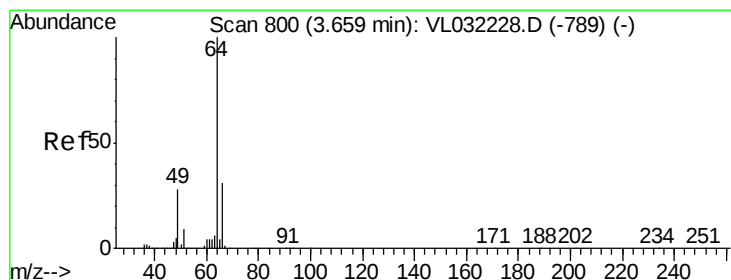
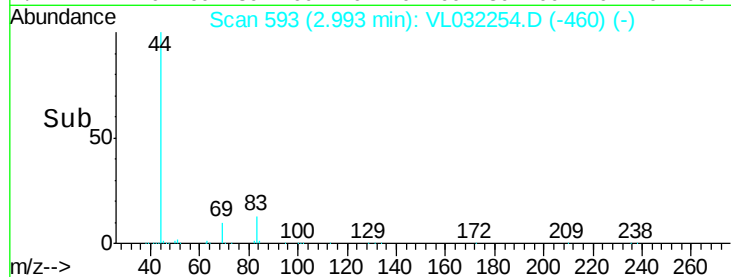
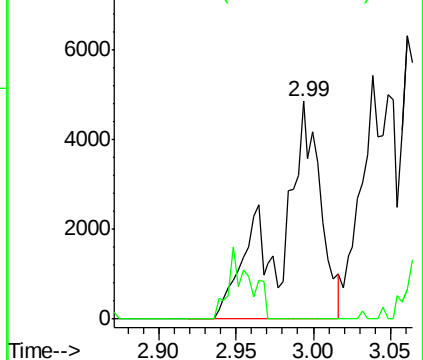
51 100

67 17.1 14.6 22.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.121 ppbv

RT: 3.66 min Scan# 801

Delta R.T. 0.00 min

Lab File: VL032254.D

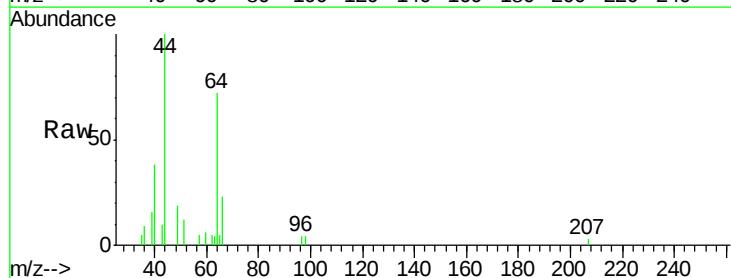
Acq: 13 Jul 2018 20:46

Tgt Ion: 64 Resp: 4495

Ion Ratio Lower Upper

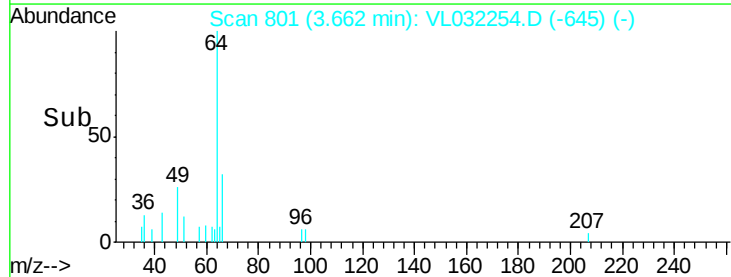
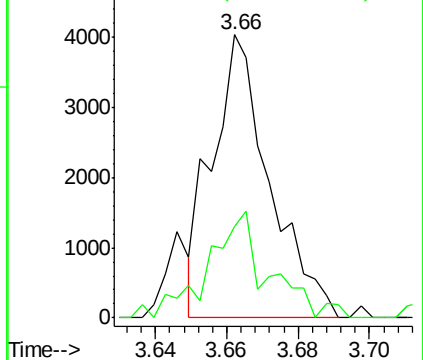
64 100

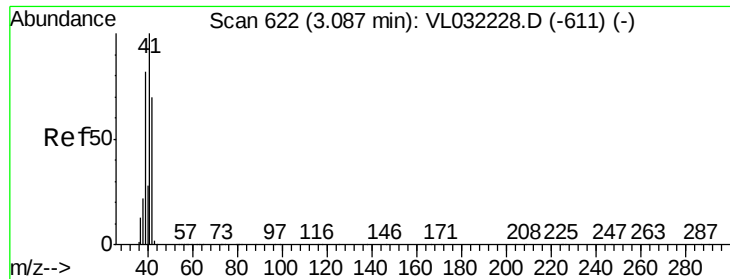
66 30.2 24.4 36.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.253 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.00 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

Instrument :

MSVOA_L

ClientSampleId :

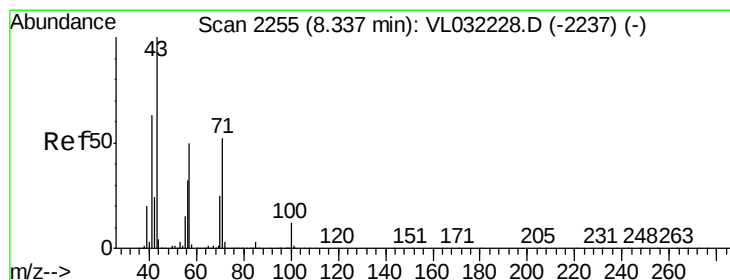
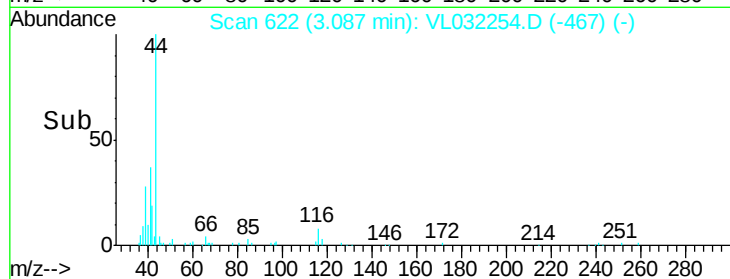
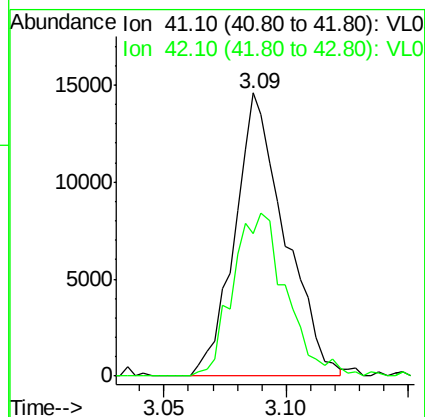
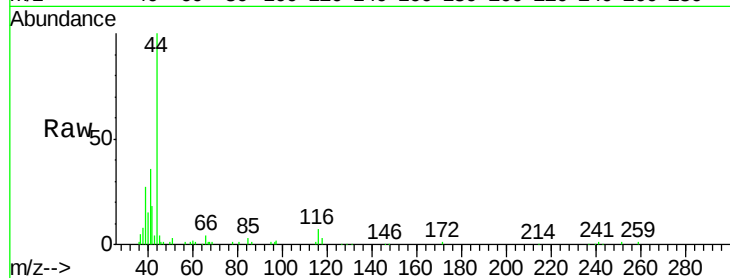
INFLUENTDL

Tgt Ion: 41 Resp: 20750

Ion Ratio Lower Upper

41 100

42 61.8 56.2 84.4



#10

Heptane

Concen: 0.079 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.00 min

Lab File: VL032254.D

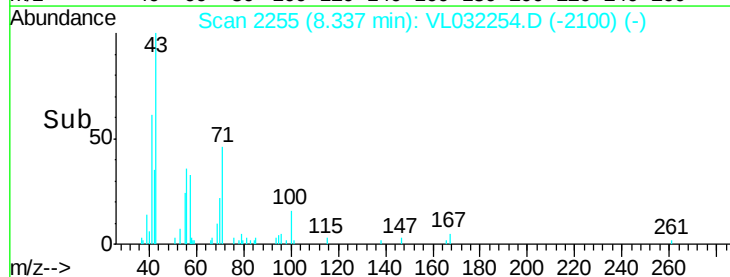
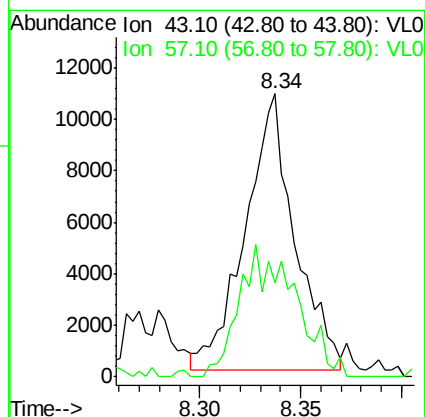
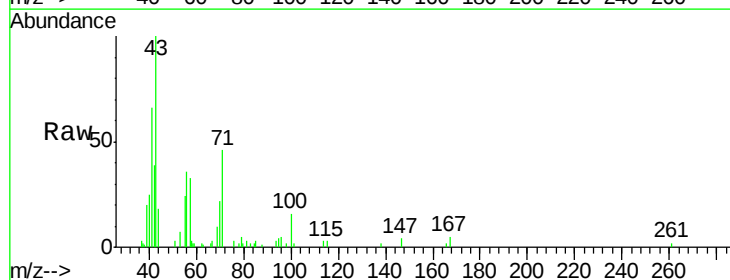
Acq: 13 Jul 2018 20:46

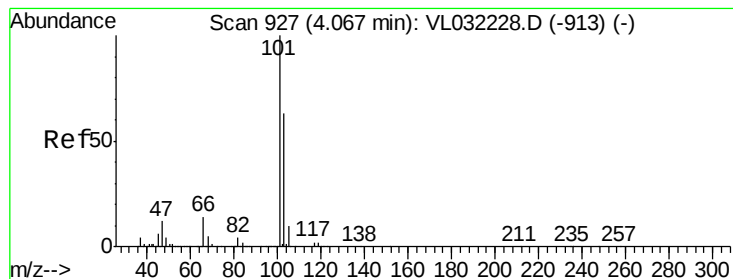
Tgt Ion: 43 Resp: 18473

Ion Ratio Lower Upper

43 100

57 53.5 40.7 61.1





#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 4.07 min Scan# 929

Delta R.T. 0.01 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

Instrument :

MSVOA_L

ClientSampleId :

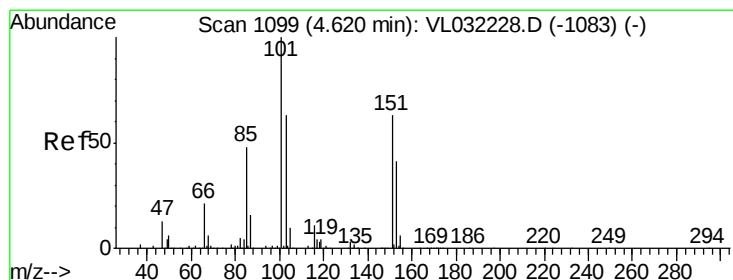
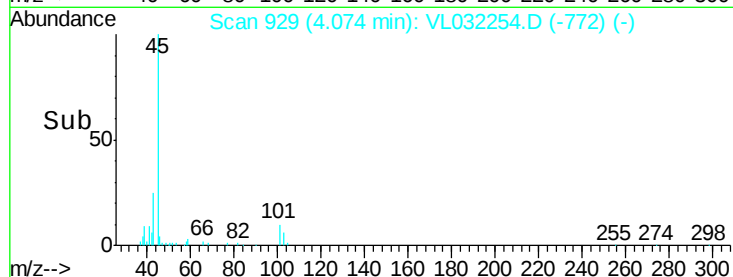
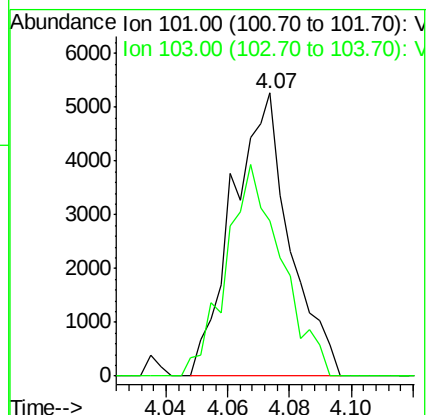
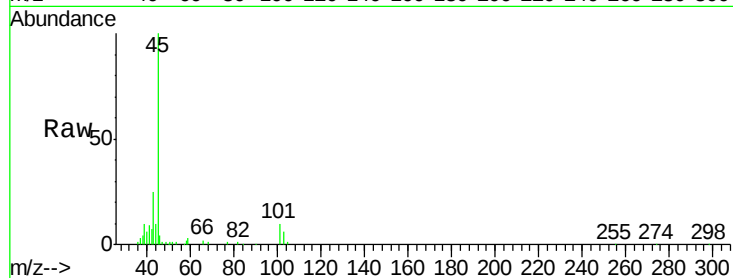
INFLUENTDL

Tgt Ion:101 Resp: 6771

Ion Ratio Lower Upper

101 100

103 55.0 50.2 75.2



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.588 ppbv

RT: 4.62 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VL032254.D

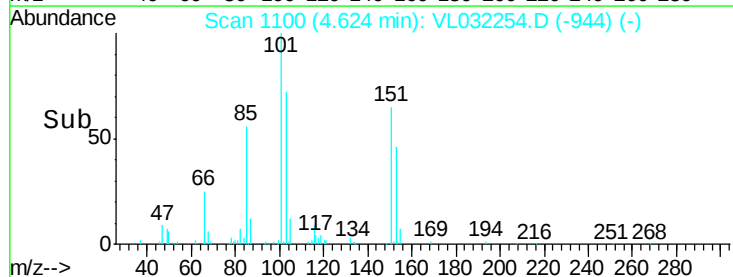
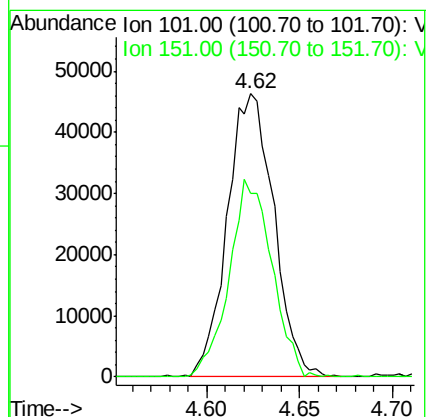
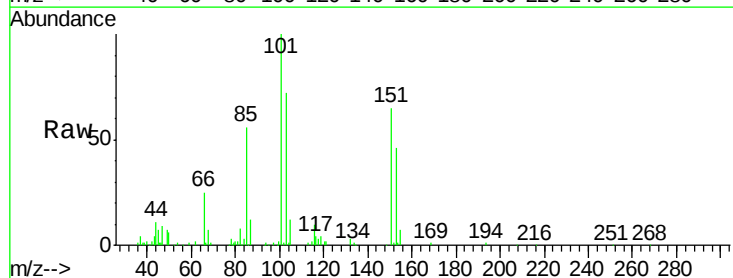
Acq: 13 Jul 2018 20:46

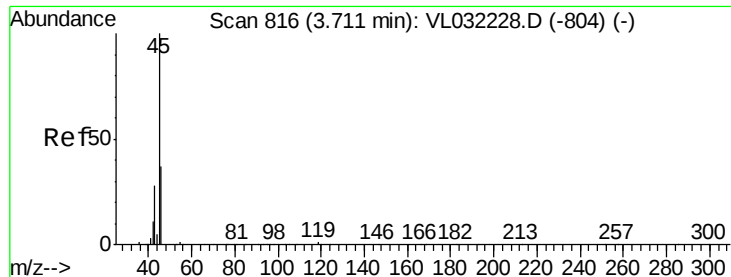
Tgt Ion:101 Resp: 80793

Ion Ratio Lower Upper

101 100

151 64.1 52.2 78.2

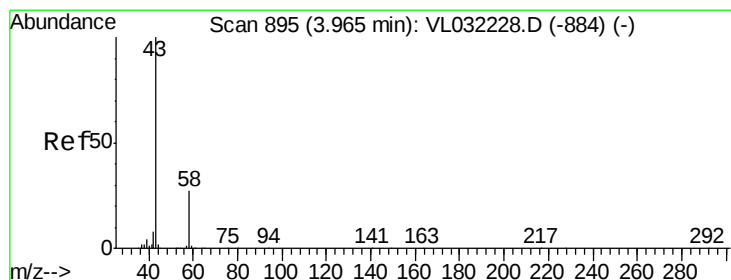
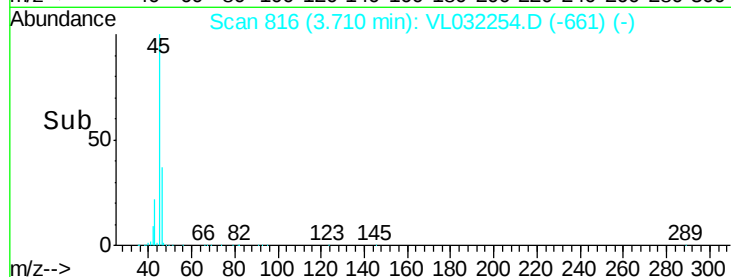
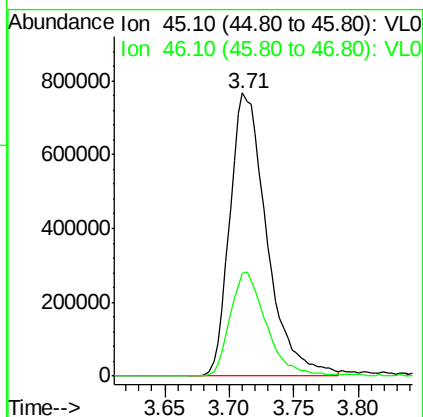
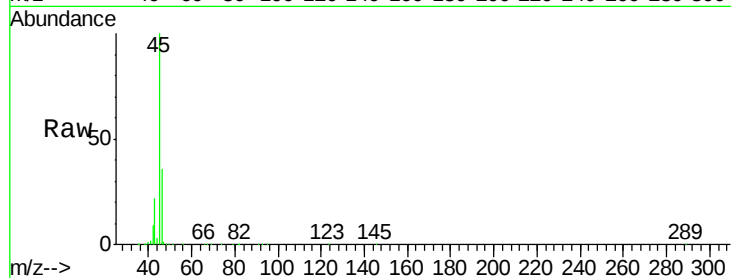




#13
Ethanol
Concen: 64.676 ppbv
RT: 3.71 min Scan# 816
Delta R.T. -0.00 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

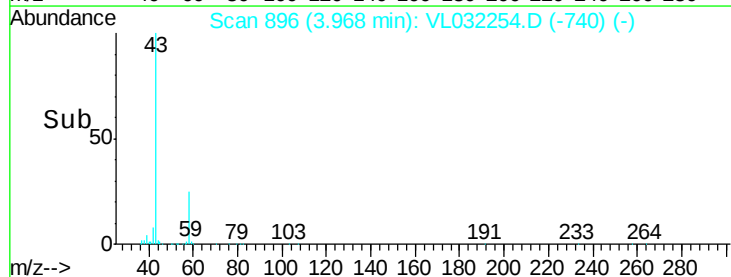
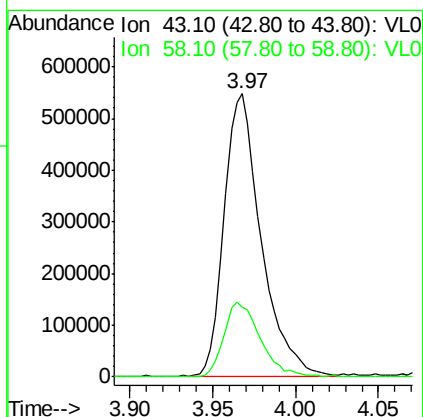
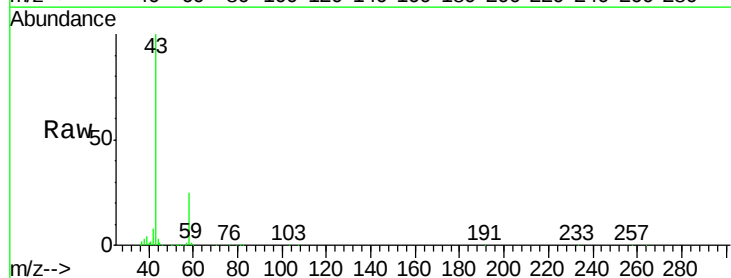
Instrument :
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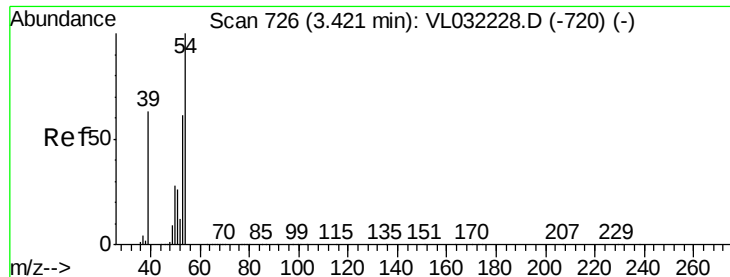
Tgt Ion: 45 Resp: 1528457
Ion Ratio Lower Upper
45 100
46 36.5 15.5 61.9



#15
Acetone
Concen: 4.656 ppbv
RT: 3.97 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion: 43 Resp: 844435
Ion Ratio Lower Upper
43 100
58 26.5 21.5 32.3

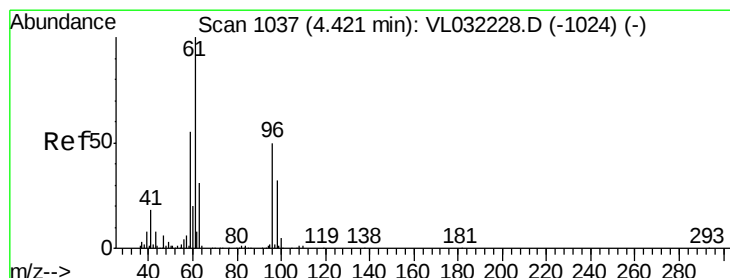
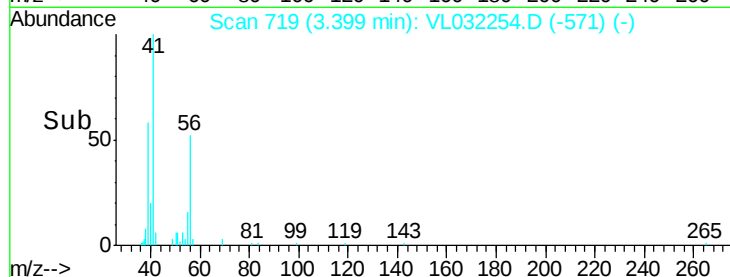
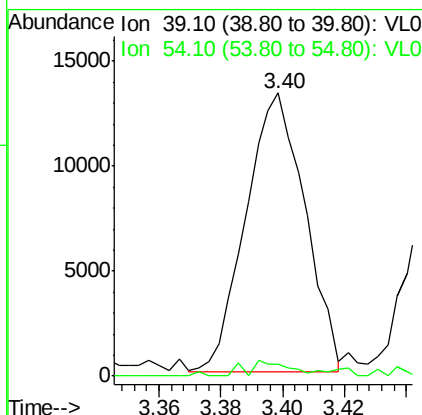
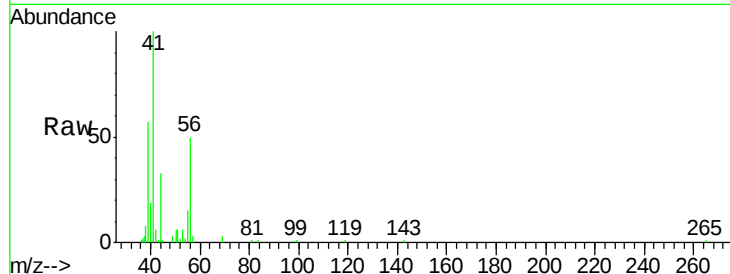




#16
1,3-Butadiene
Concen: 0.192 ppbv
RT: 3.40 min Scan# 719
Delta R.T. -0.02 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

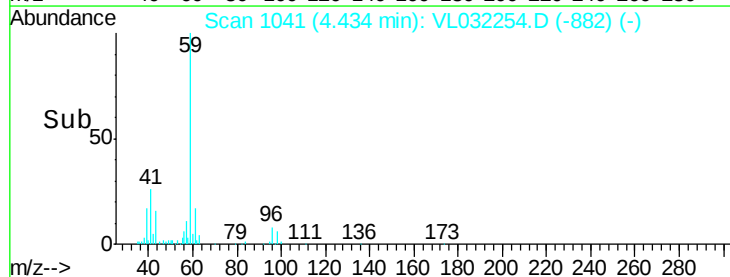
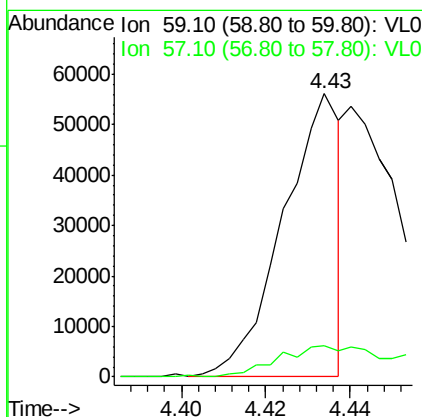
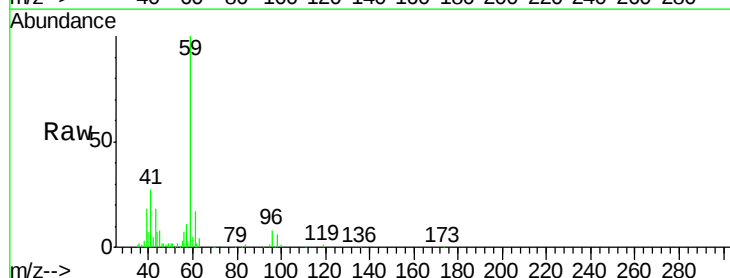
Instrument :
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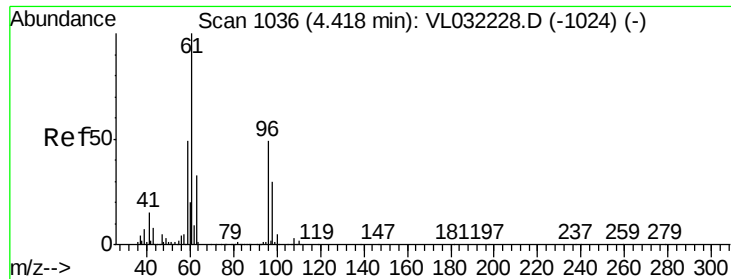
Tgt Ion: 39 Resp: 17599
Ion Ratio Lower Upper
39 100
54 6.3 70.0 105.0#



#17
tert-Butyl alcohol
Concen: 0.619 ppbv
RT: 4.43 min Scan# 1041
Delta R.T. 0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion: 59 Resp: 52457
Ion Ratio Lower Upper
59 100
57 26.0 8.4 12.6#

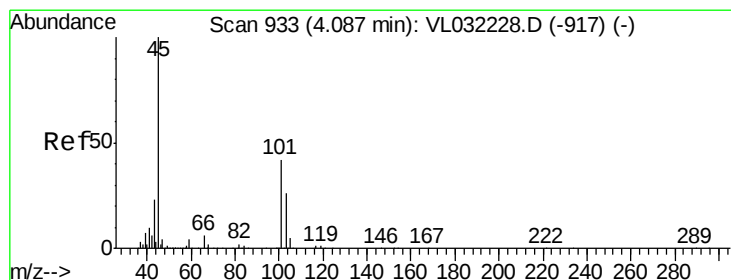
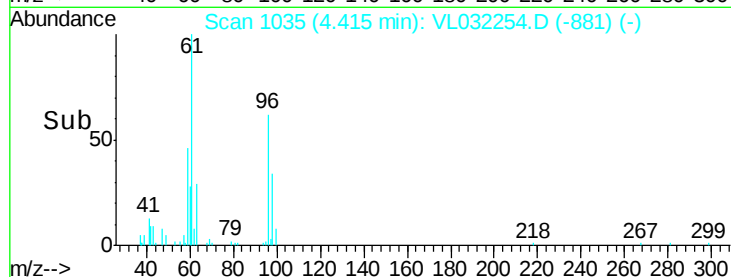
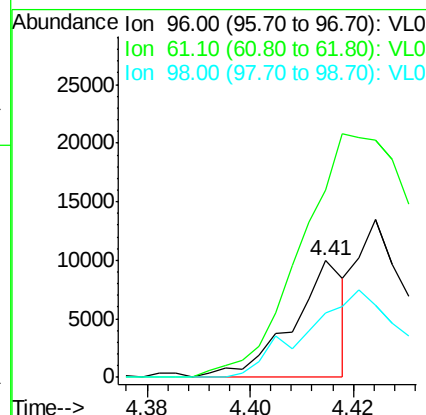
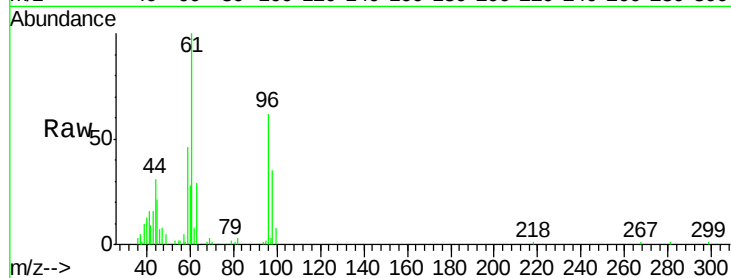




#18
 1,1-Dichloroethene
 Concen: 0.110 ppbv
 RT: 4.41 min Scan# 1035
 Delta R.T. -0.00 min
 Lab File: VL032254.D
 Acq: 13 Jul 2018 20:46

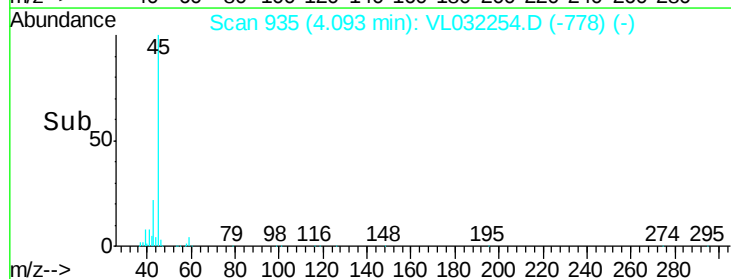
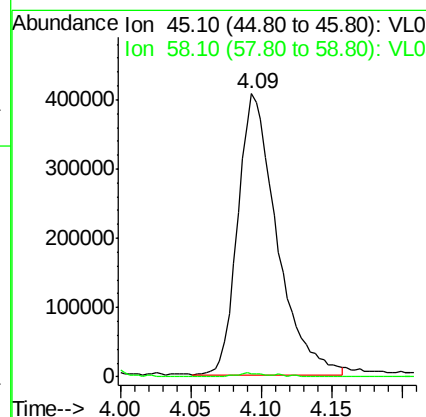
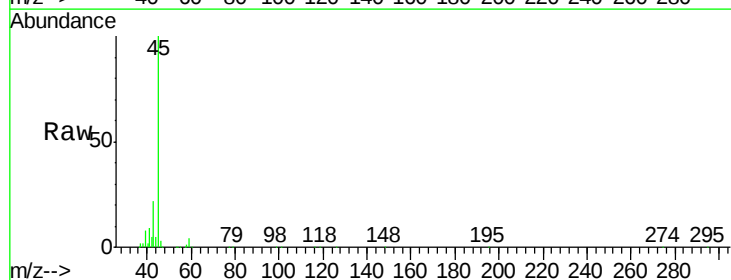
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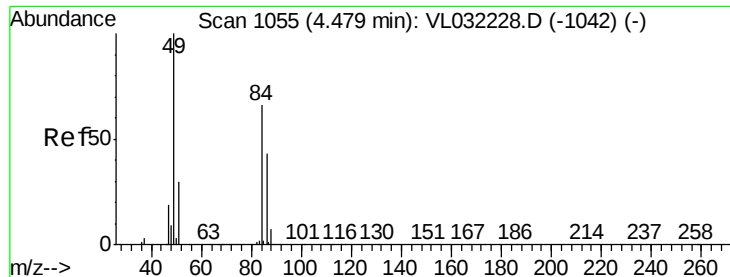
Tgt Ion: 96 Resp: 7070
 Ion Ratio Lower Upper
 96 100
 61 160.0 163.0 244.4#
 98 55.6 48.5 72.7



#19
 Isopropyl Alcohol
 Concen: 6.648 ppbv
 RT: 4.09 min Scan# 935
 Delta R.T. 0.01 min
 Lab File: VL032254.D
 Acq: 13 Jul 2018 20:46

Tgt Ion: 45 Resp: 791677
 Ion Ratio Lower Upper
 45 100
 58 1.3 1.3 1.9

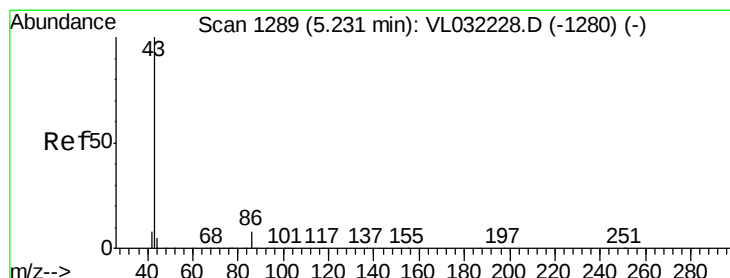
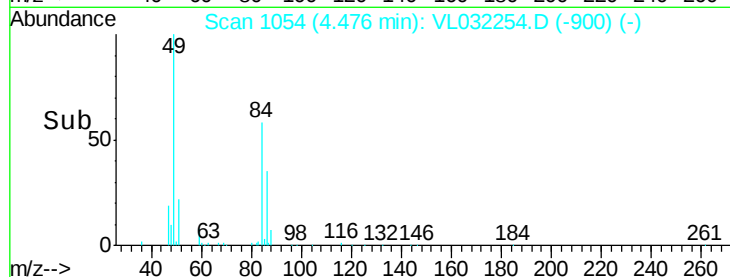
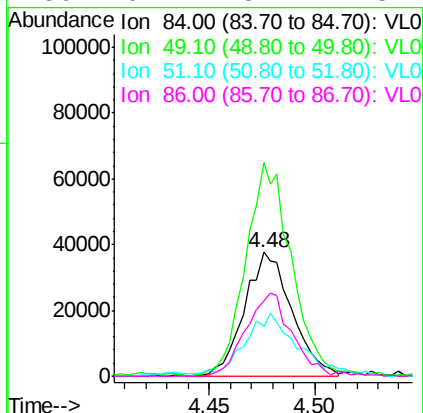
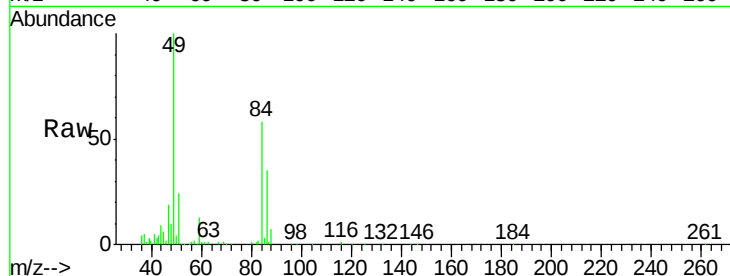




#20
Methylene Chloride
Concen: 0.948 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

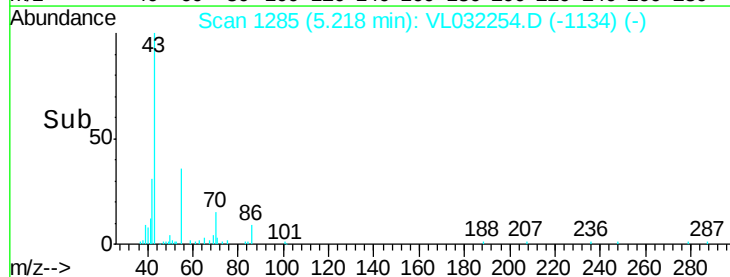
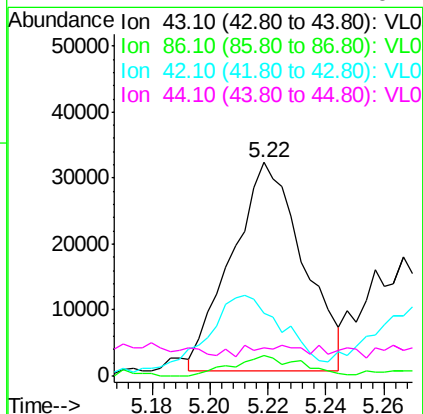
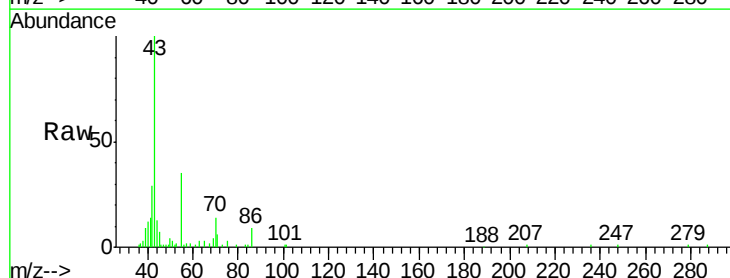
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

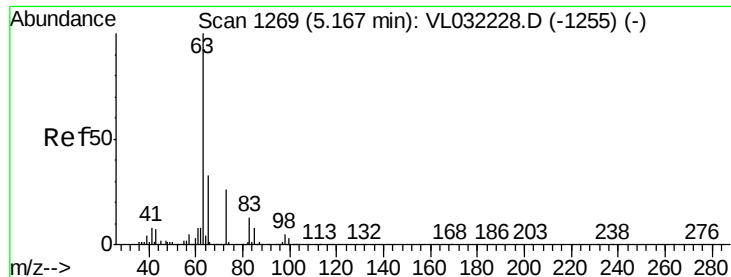
Tgt Ion:	84	Resp:	58247
Ion	Ratio	Lower	Upper
84	100		
49	172.9	121.8	182.6
51	38.6	36.3	54.5
86	61.1	52.1	78.1



#23
Vinyl Acetate
Concen: 0.179 ppbv
RT: 5.22 min Scan# 1285
Delta R.T. -0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion:	43	Resp:	54006
Ion	Ratio	Lower	Upper
43	100		
86	10.2	5.9	8.9#
42	19.8	7.0	10.6#
44	1.7	4.2	6.2#





#24

1,1-Dichloroethane

Concen: 1.401 ppbv

RT: 5.16 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

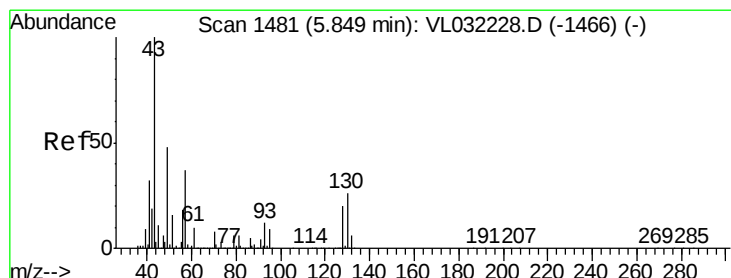
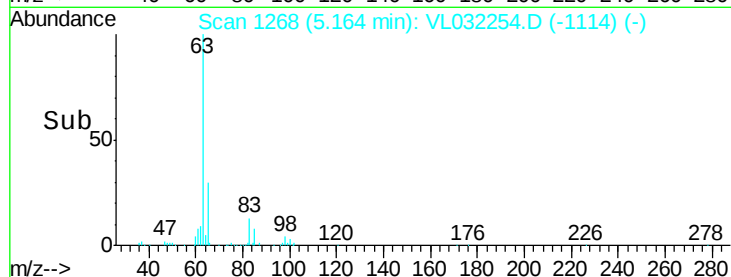
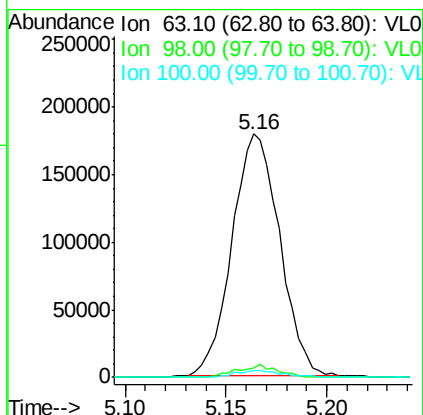
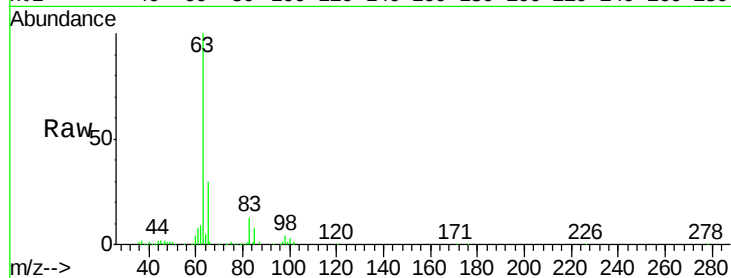
Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

Tgt Ion:	63	Resp:	296796
Ion	Ratio	Lower	Upper
63	100		
98	3.7	2.4	7.1
100	2.6	1.5	4.4



#25

Ethyl Acetate

Concen: 0.177 ppbv

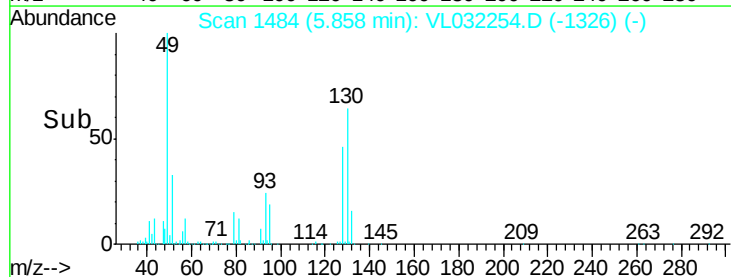
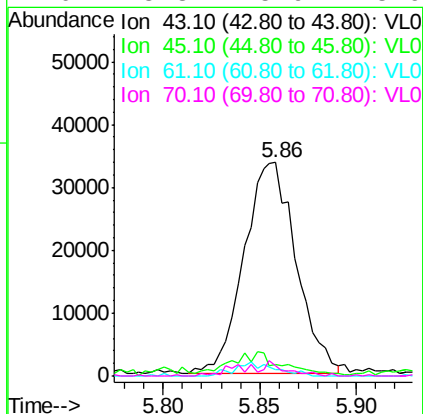
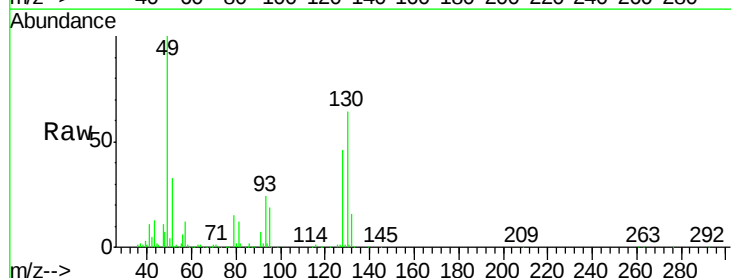
RT: 5.86 min Scan# 1484

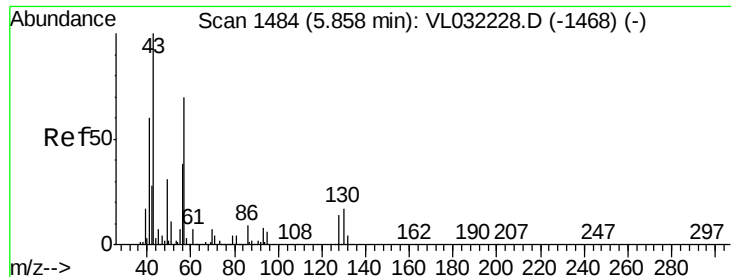
Delta R.T. 0.01 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

Tgt Ion:	43	Resp:	63358
Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.0	12.0
61	5.3	7.7	11.5#
70	5.8	5.9	8.9#

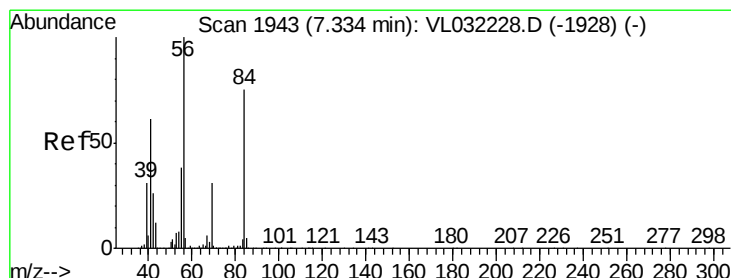
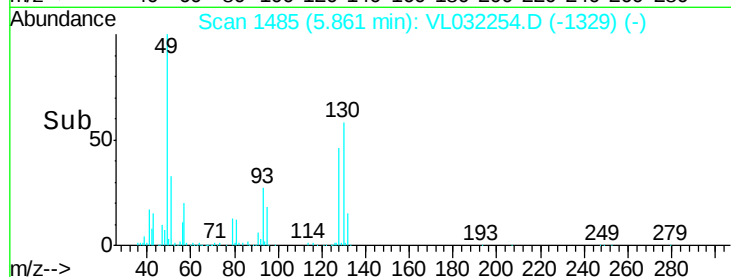
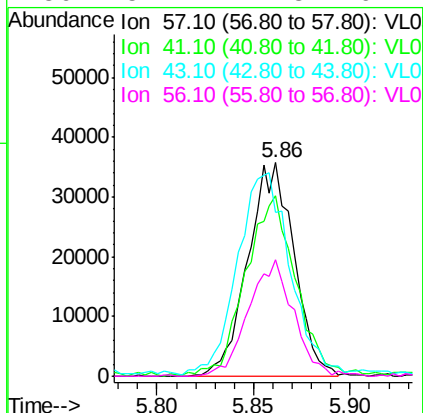
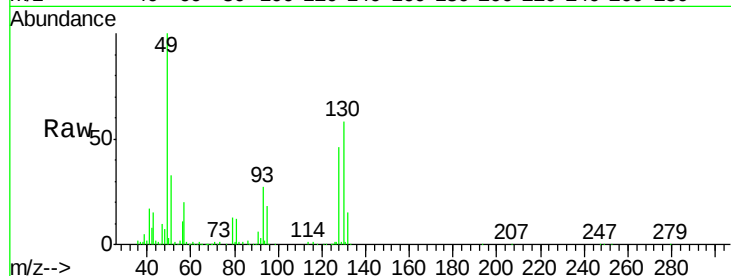




#26
Hexane
Concen: 0.362 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. 0.00 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

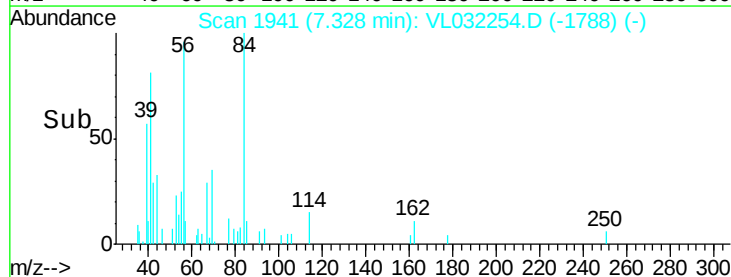
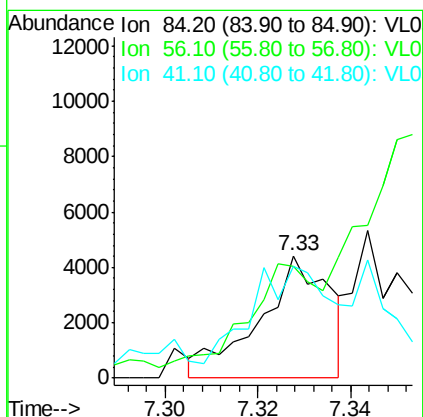
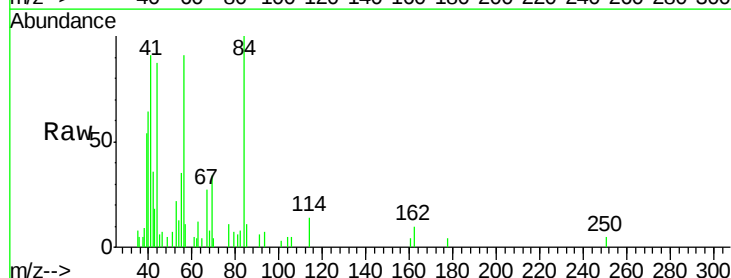
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

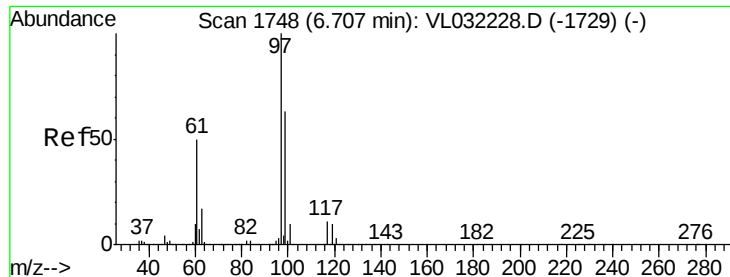
Tgt Ion: 57 Resp: 59200
Ion Ratio Lower Upper
57 100
41 90.0 68.7 103.1
43 110.0 176.2 264.2#
56 54.1 42.8 64.2



#30
Cyclohexane
Concen: 0.032 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion: 84 Resp: 4631
Ion Ratio Lower Upper
84 100
56 0.0 112.6 168.8#
41 0.0 67.0 100.6#





#32

1,1,1-Trichloroethane

Concen: 13.236 ppbv

RT: 6.70 min Scan# 1746

Delta R.T. -0.01 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

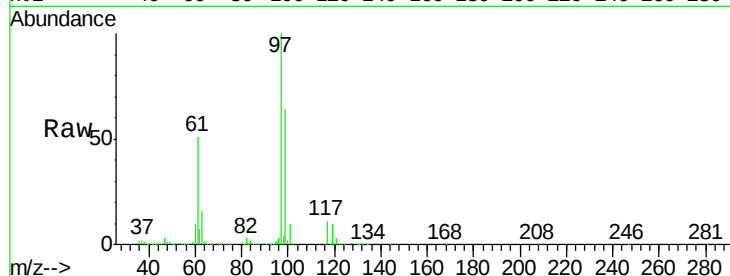
Tgt Ion: 97 Resp: 3246116

Ion Ratio Lower Upper

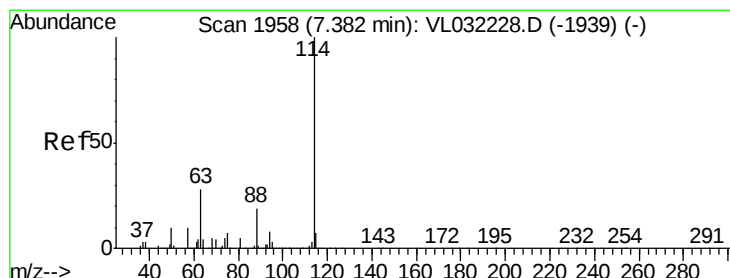
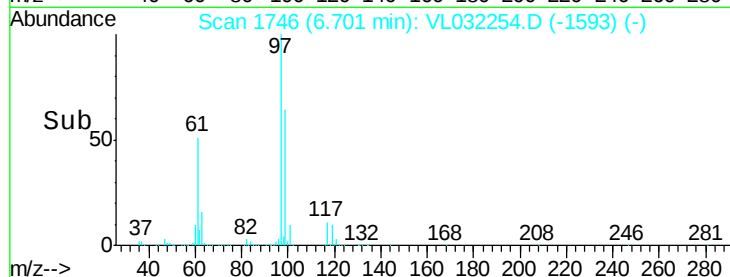
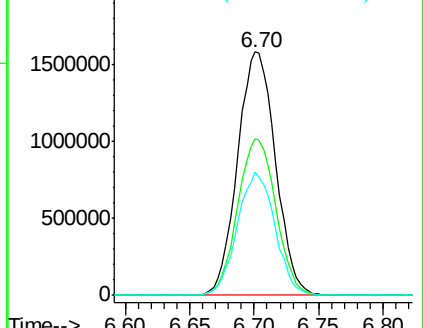
97 100

99 64.7 51.2 76.8

61 50.2 41.3 61.9



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.38 min Scan# 1956

Delta R.T. -0.01 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

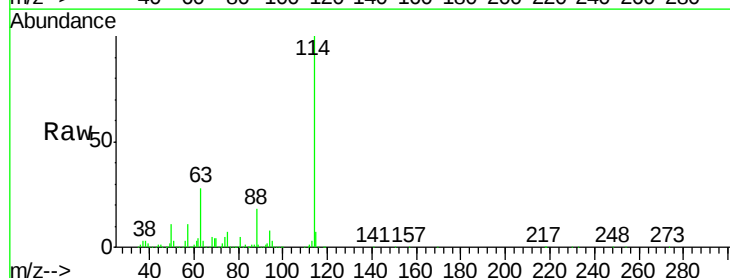
Tgt Ion: 114 Resp: 3597406

Ion Ratio Lower Upper

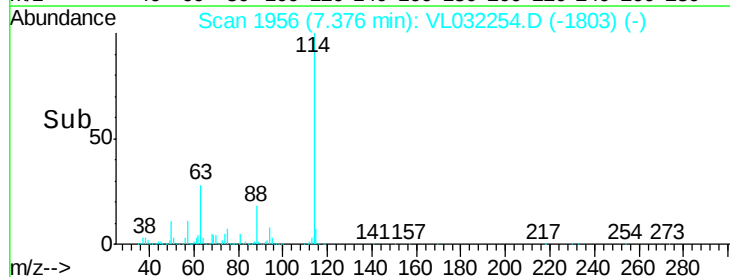
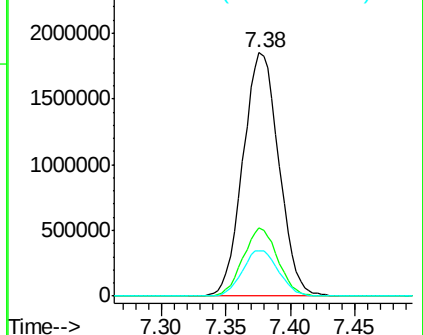
114 100

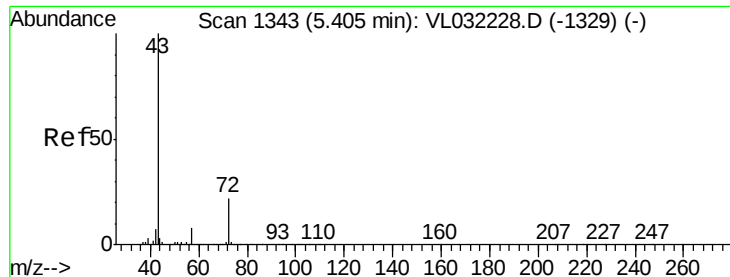
63 27.3 22.5 33.7

88 19.0 15.4 23.0



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

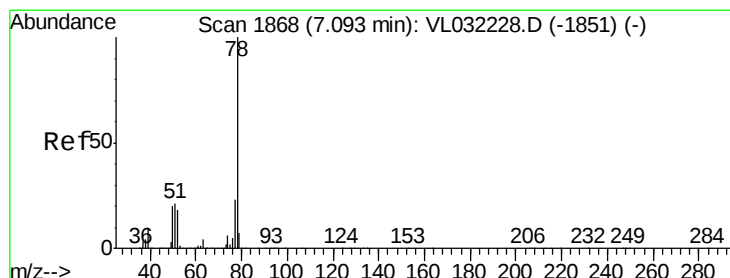
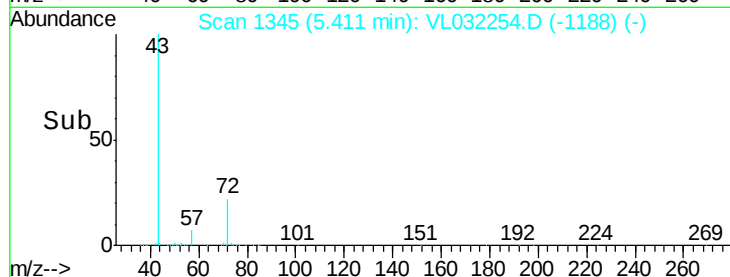
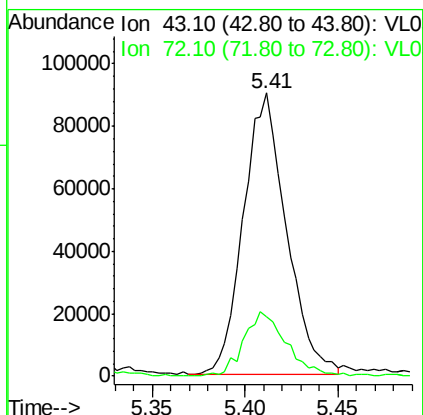
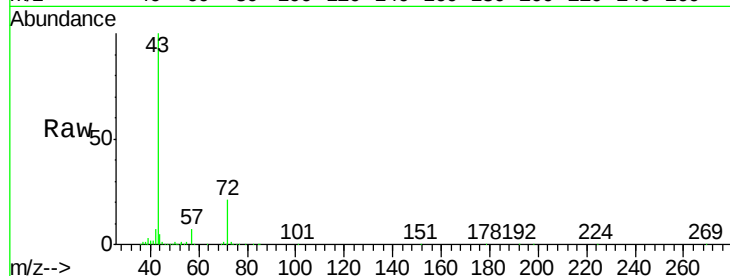




#34
2-Butanone
Concen: 0.590 ppbv
RT: 5.41 min Scan# 1345
Delta R.T. 0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

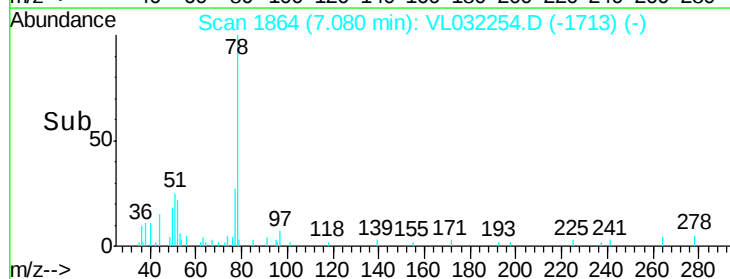
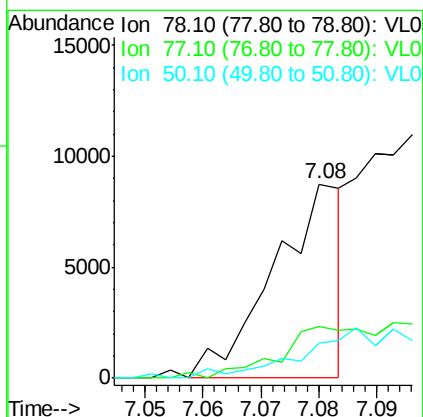
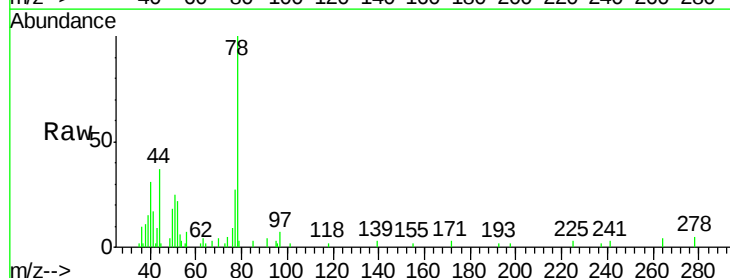
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

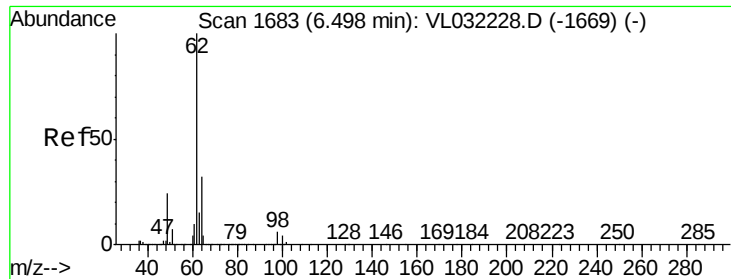
Tgt Ion: 43 Resp: 144534
Ion Ratio Lower Upper
43 100
72 23.4 18.1 27.1



#36
Benzene
Concen: 0.020 ppbv
RT: 7.08 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion: 78 Resp: 7289
Ion Ratio Lower Upper
78 100
77 23.9 18.0 27.0
50 17.8 15.8 23.8





#37

1,2-Dichloroethane

Concen: 1.172 ppbv

RT: 6.70 min Scan# 1747

Delta R.T. 0.21 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

Instrument :

MSVOA_L

ClientSampleId :

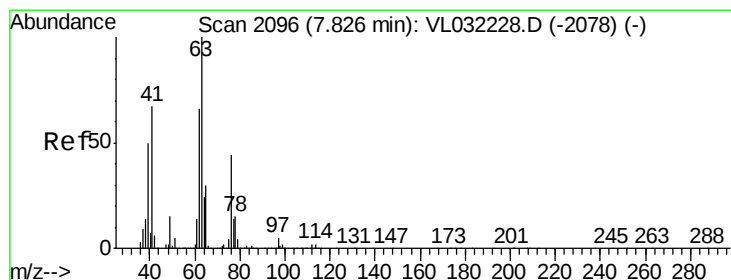
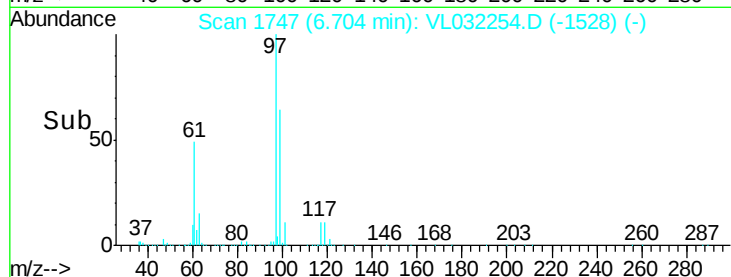
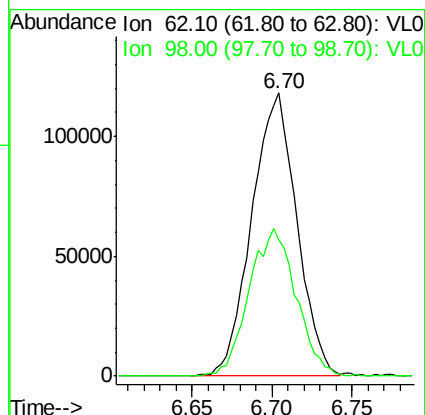
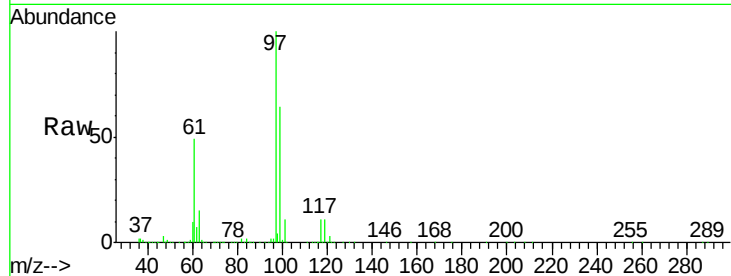
INFLUENTDL

Tgt Ion: 62 Resp: 229495

Ion Ratio Lower Upper

62 100

98 54.3 4.6 7.0#



#39

1,2-Dichloropropane

Concen: 6.863 ppbv

RT: 7.38 min Scan# 1956

Delta R.T. -0.45 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

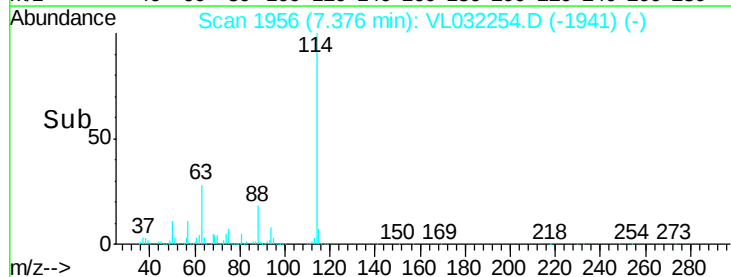
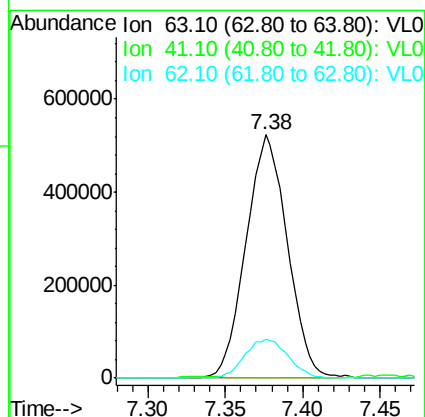
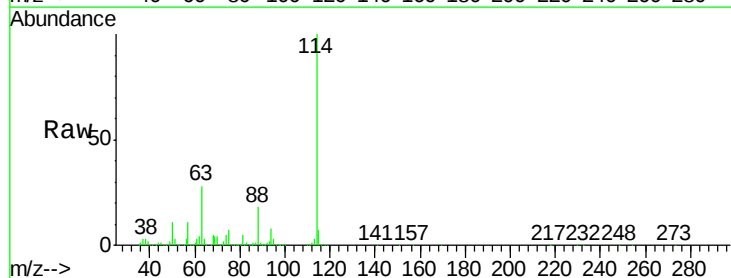
Tgt Ion: 63 Resp: 975124

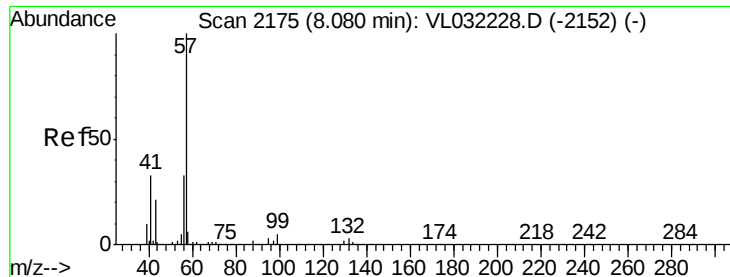
Ion Ratio Lower Upper

63 100

41 0.0 53.8 80.6#

62 15.7 53.1 79.7#

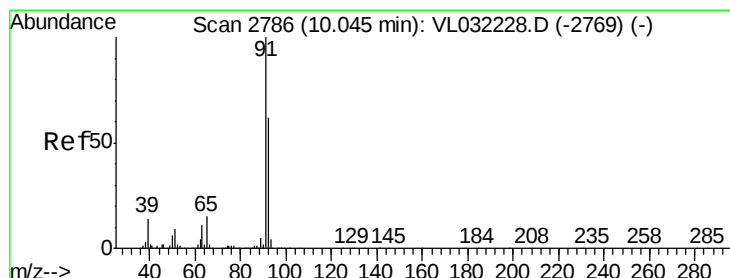
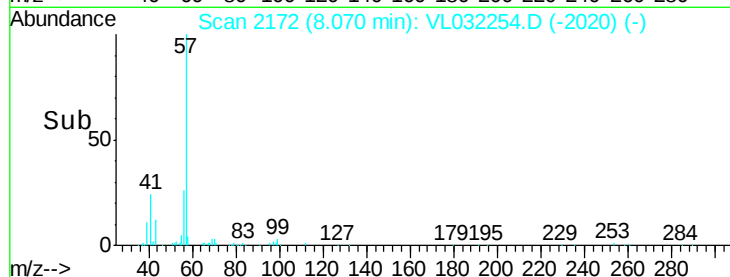
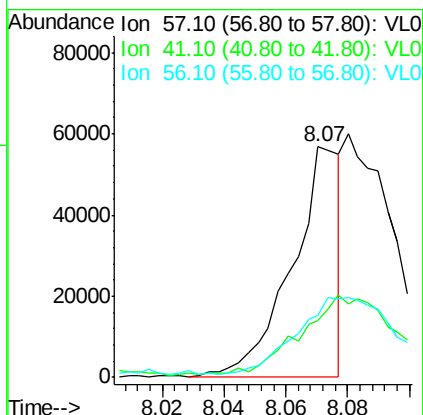
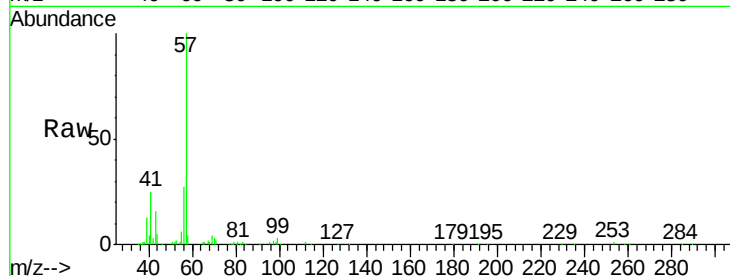




#44
 2,2,4-Trimethylpentane
 Concen: 0.099 ppbv
 RT: 8.07 min Scan# 2172
 Delta R.T. -0.01 min
 Lab File: VL032254.D
 Acq: 13 Jul 2018 20:46

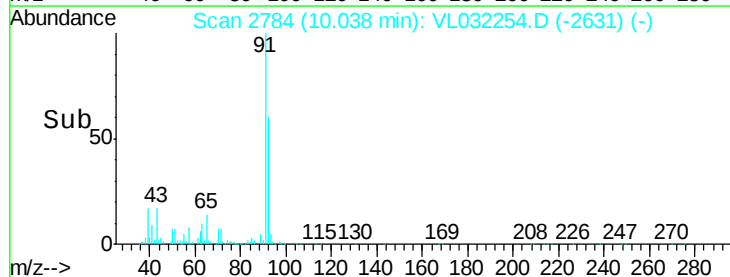
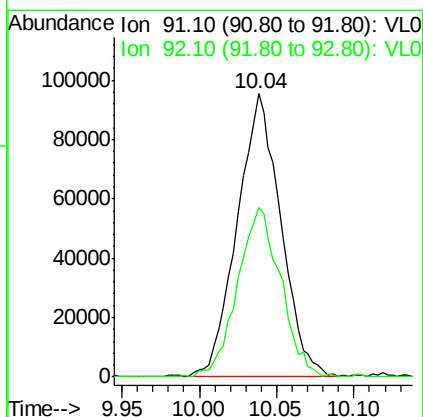
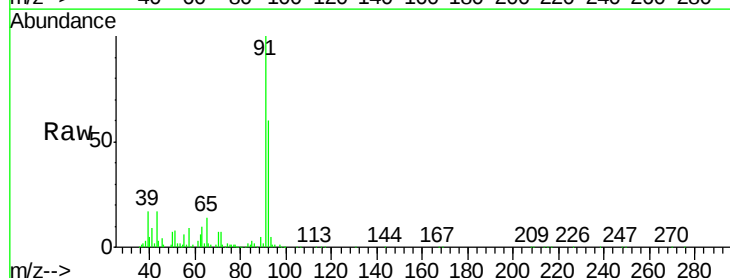
Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

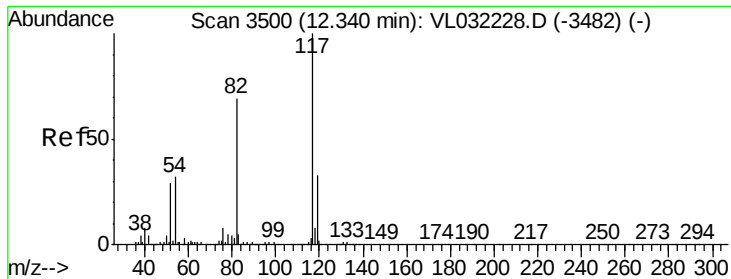
Tgt Ion: 57 Resp: 61071
 Ion Ratio Lower Upper
 57 100
 41 0.0 24.7 37.1#
 56 75.7 25.4 38.0#



#53
 Toluene
 Concen: 0.442 ppbv
 RT: 10.04 min Scan# 2784
 Delta R.T. -0.01 min
 Lab File: VL032254.D
 Acq: 13 Jul 2018 20:46

Tgt Ion: 91 Resp: 186830
 Ion Ratio Lower Upper
 91 100
 92 59.3 49.0 73.4

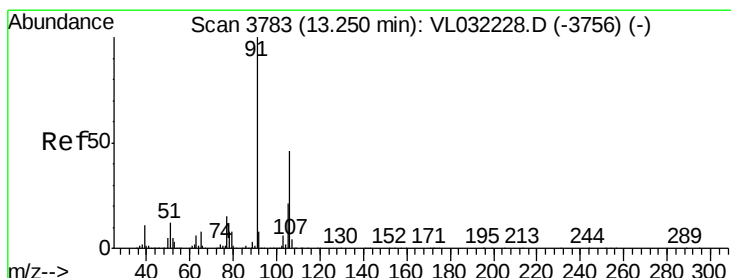
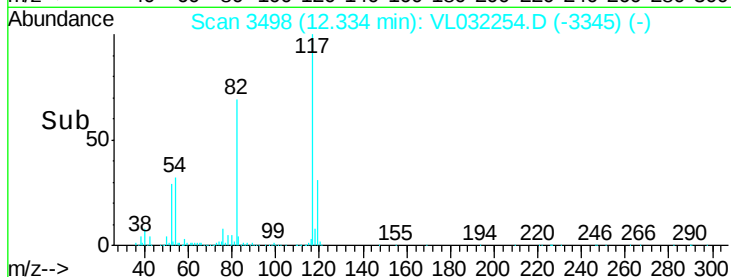
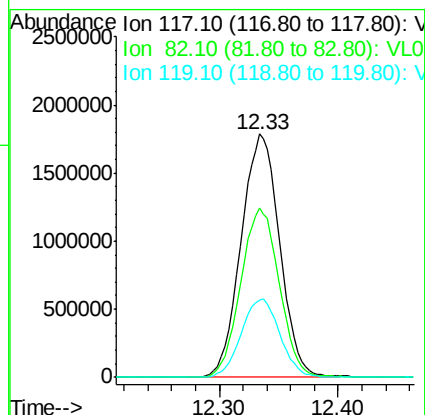
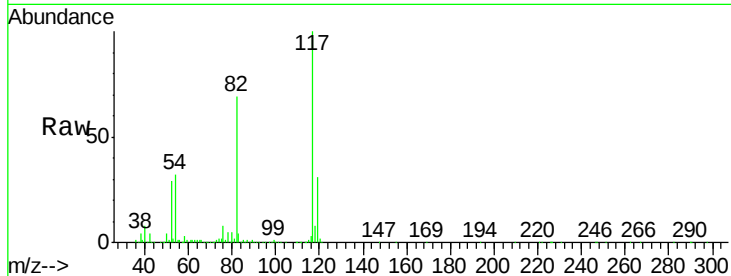




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. -0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

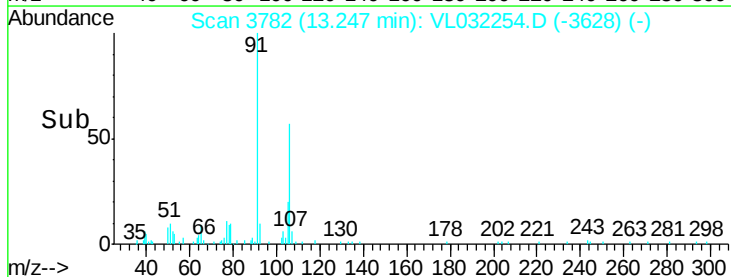
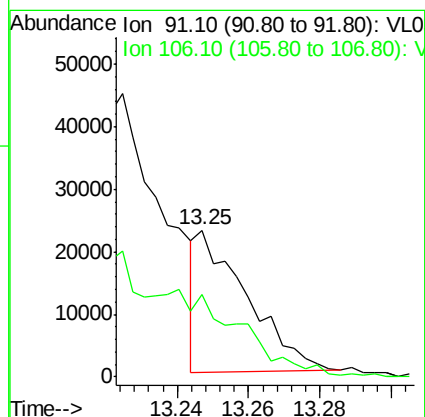
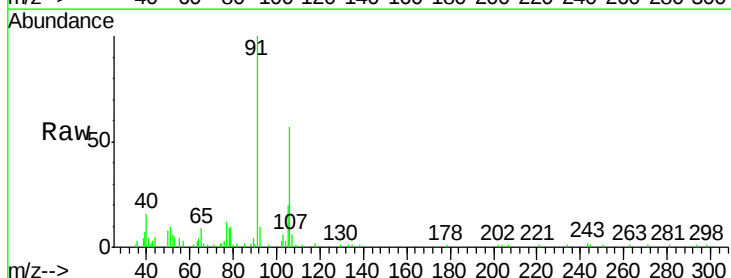
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

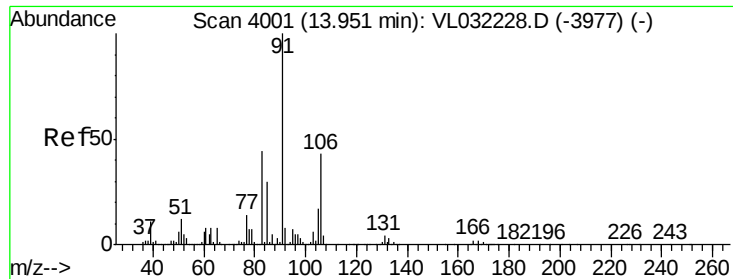
Tgt Ion: 117 Resp: 4001187
Ion Ratio Lower Upper
117 100
82 69.9 53.2 79.8
119 32.7 43.9 65.9#



#59
m/p-Xylene
Concen: 0.045 ppbv
RT: 13.25 min Scan# 3782
Delta R.T. -0.00 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion: 91 Resp: 21762
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

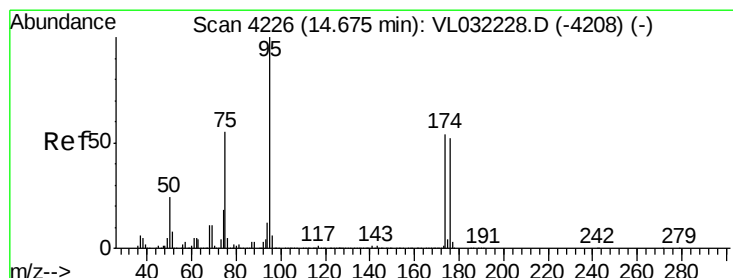
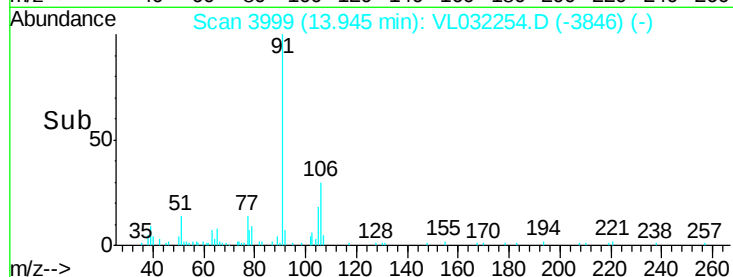
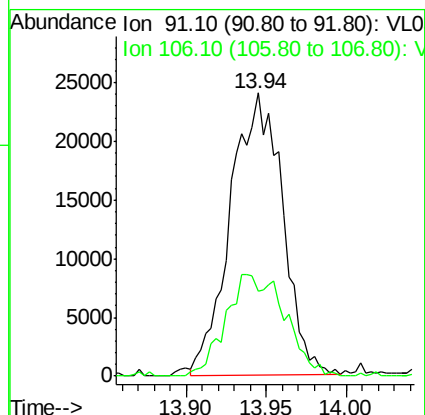
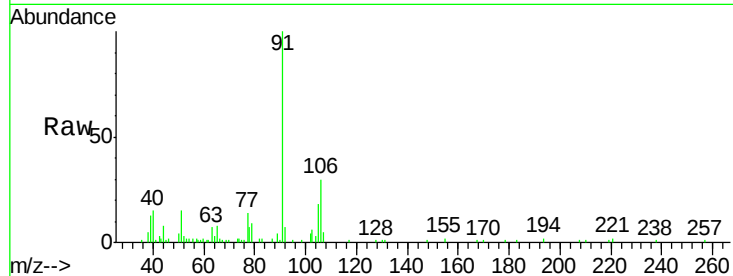




#60
o-Xylene
Concen: 0.113 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

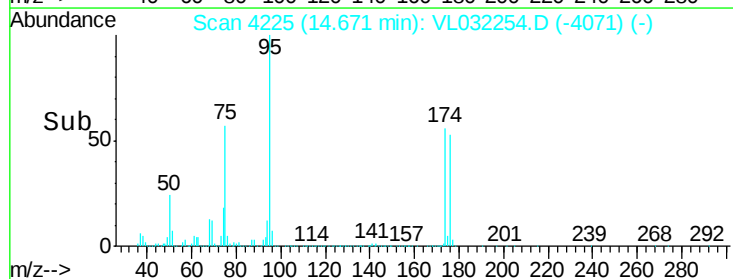
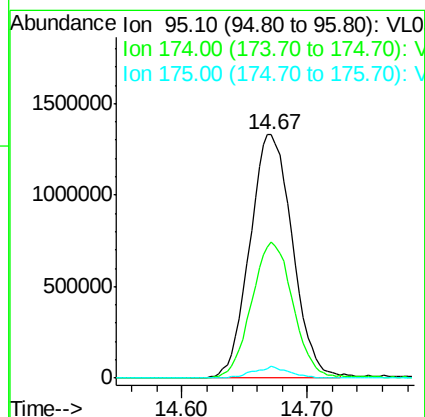
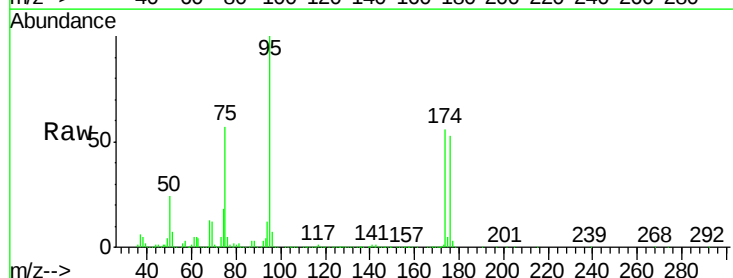
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

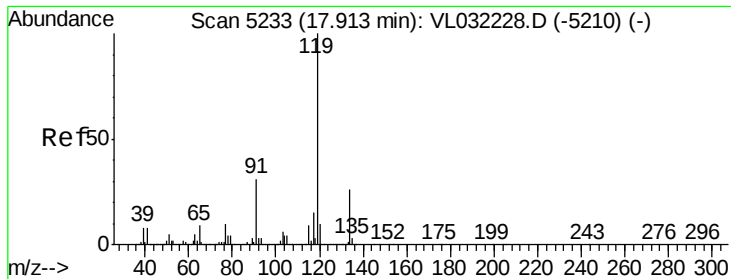
Tgt Ion: 91 Resp: 53365
Ion Ratio Lower Upper
91 100
106 41.3 21.9 65.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.152 ppbv
RT: 14.67 min Scan# 4225
Delta R.T. -0.00 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion: 95 Resp: 3144497
Ion Ratio Lower Upper
95 100
174 55.3 44.6 67.0
175 4.0 3.3 4.9

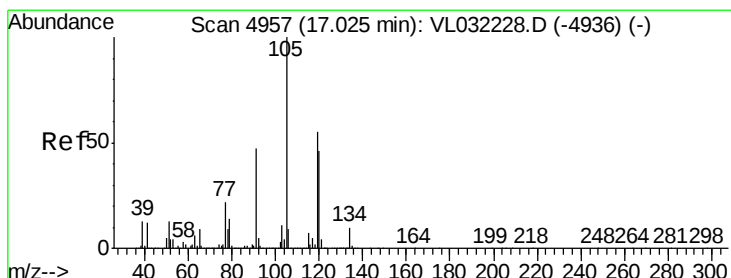
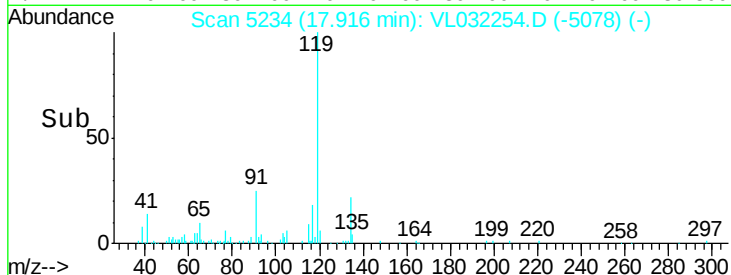
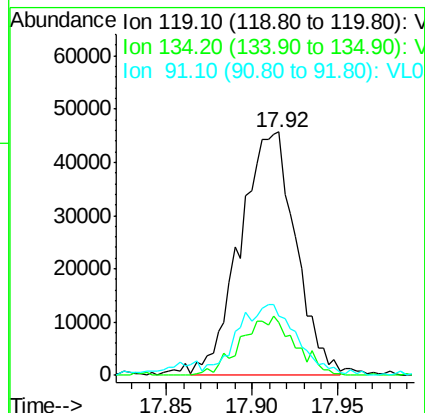
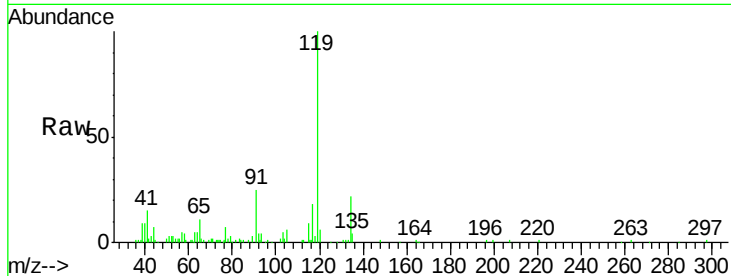




#69
p-Isopropyltoluene
Concen: 0.161 ppbv
RT: 17.92 min Scan# 5234
Delta R.T. 0.00 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

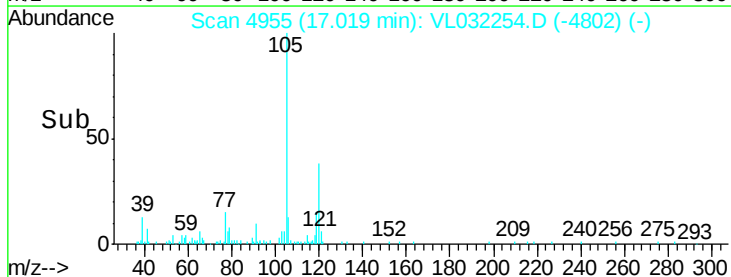
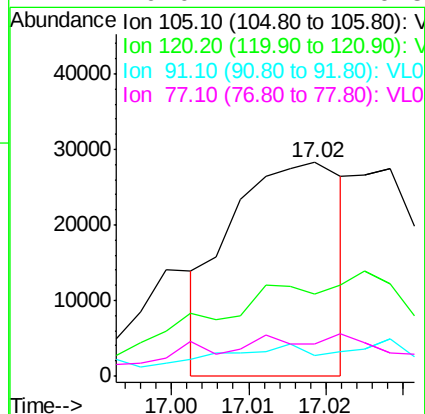
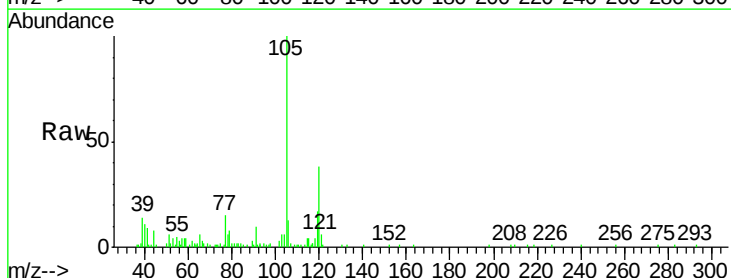
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

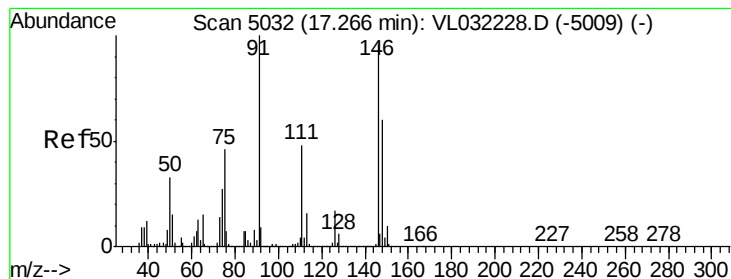
Tgt Ion:119 Resp: 101879
Ion Ratio Lower Upper
119 100
134 24.0 20.1 30.1
91 35.1 24.2 36.2



#74
1,2,4-Trimethylbenzene
Concen: 0.056 ppbv
RT: 17.02 min Scan# 4955
Delta R.T. -0.01 min
Lab File: VL032254.D
Acq: 13 Jul 2018 20:46

Tgt Ion:105 Resp: 28488
Ion Ratio Lower Upper
105 100
120 29.3 37.0 55.4#
91 4.5 38.2 57.2#
77 0.0 17.7 26.5#





#75

1,3-Dichlorobenzene

Concen: 0.404 ppbv

RT: 17.26 min Scan# 5031

Delta R.T. -0.00 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

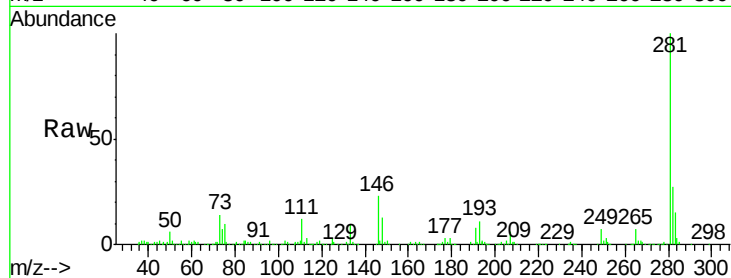
Tgt Ion:146 Resp: 121568

Ion Ratio Lower Upper

146 100

111 53.9 24.9 74.7

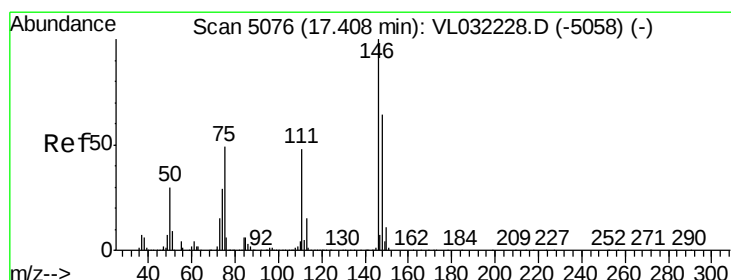
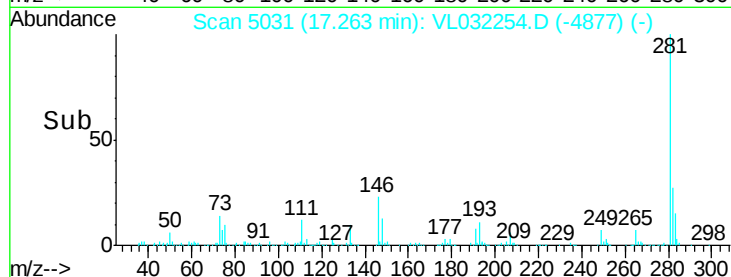
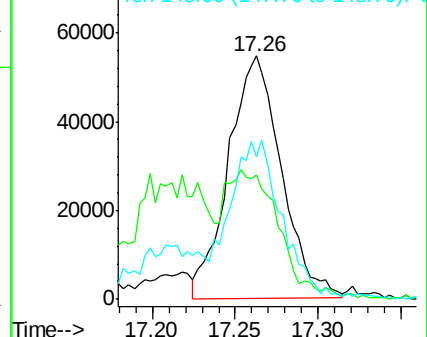
148 66.4 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.412 ppbv

RT: 17.26 min Scan# 5031

Delta R.T. -0.14 min

Lab File: VL032254.D

Acq: 13 Jul 2018 20:46

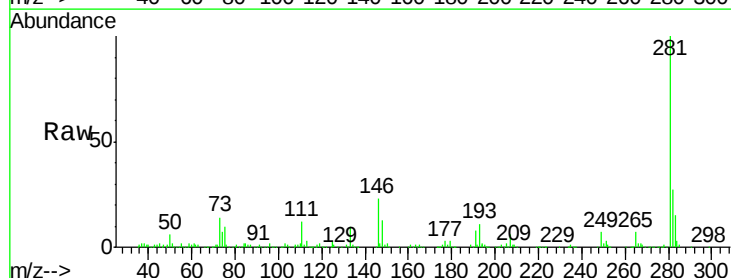
Tgt Ion:146 Resp: 121568

Ion Ratio Lower Upper

146 100

111 55.6 24.6 73.6

148 71.9 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

