

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033486.D
 Acq On : 28 Mar 2019 2:51
 Operator : SY/AP
 Sample : K1991-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:32:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	826974	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1992100	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1996312	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1533545	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

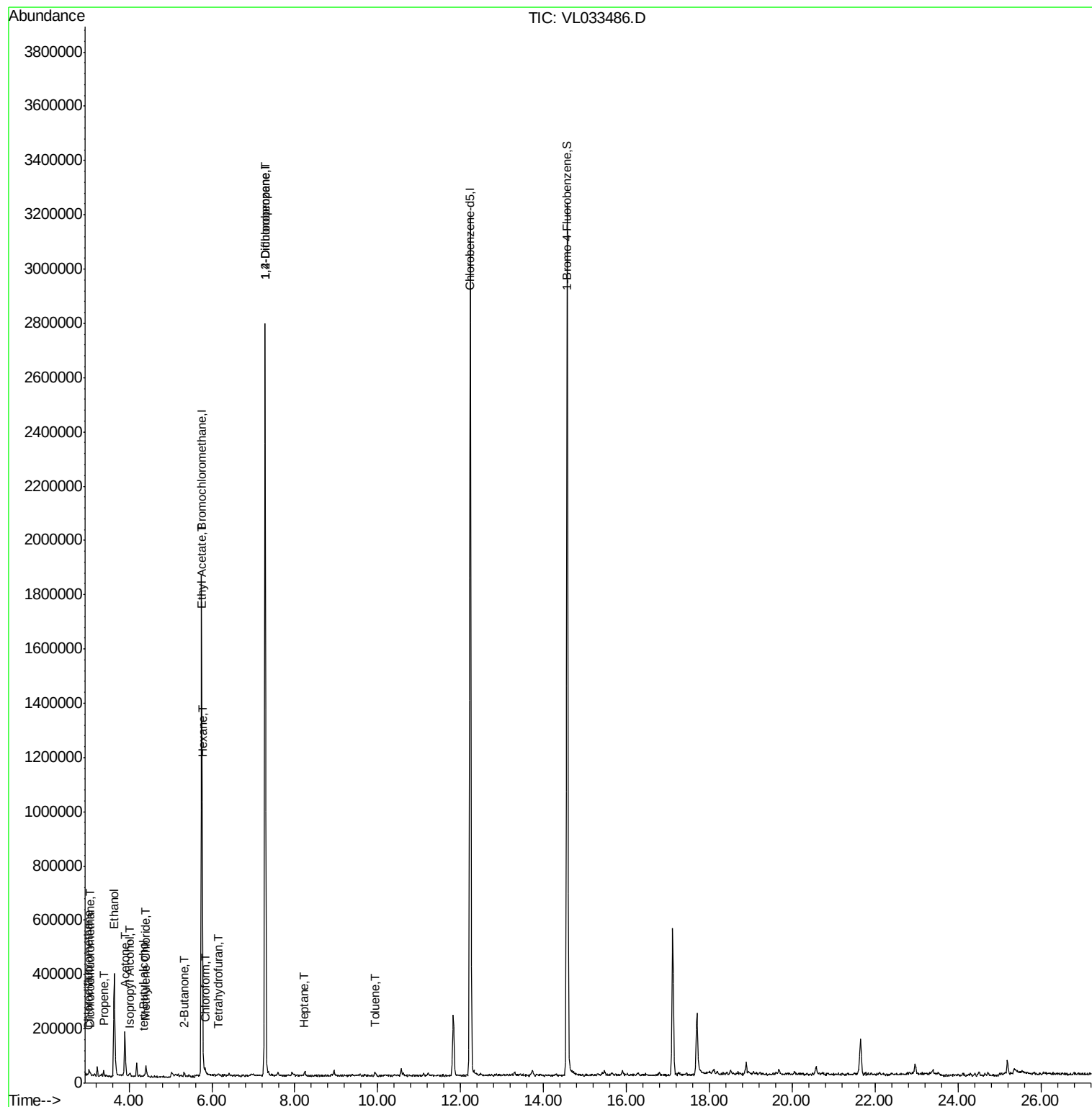
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	6742	0.056 ppbv	90
3) Chlorodifluoromethane	3.01	51	4373	0.046 ppbv #	88
9) Propene	3.39	41	3469	0.087 ppbv	86
10) Heptane	8.23	43	2215	0.021 ppbv #	27
13) Ethanol	3.64	45	435818	42.123 ppbv	66
15) Acetone	3.90	43	167304	1.683 ppbv	99
17) tert-Butyl alcohol	4.35	59	592	0.032 ppbv #	73
19) Isopropyl Alcohol	4.02	45	5700	0.091 ppbv #	1
20) Methylene Chloride	4.41	84	13411	0.318 ppbv	90
25) Ethyl Acetate	5.77	43	9638	0.052 ppbv #	88
26) Hexane	5.78	57	17221	0.210 ppbv #	43
29) Chloroform	5.84	83	11438	0.081 ppbv	93
34) 2-Butanone	5.33	43	15138	0.126 ppbv	99
39) 1,2-Dichloropropane	7.28	63	509047	7.774 ppbv #	24
41) Tetrahydrofuran	6.15	42	1428	0.022 ppbv #	38
53) Toluene	9.93	91	4706	0.024 ppbv #	21

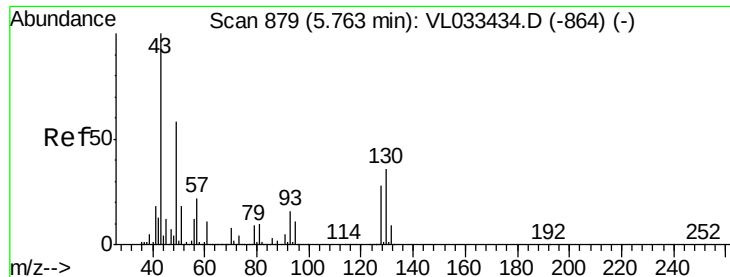
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 26 16:00:50 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033486.D

Acq: 28 Mar 2019 2:51

Instrument :

MSVOA_L

ClientSampleId :

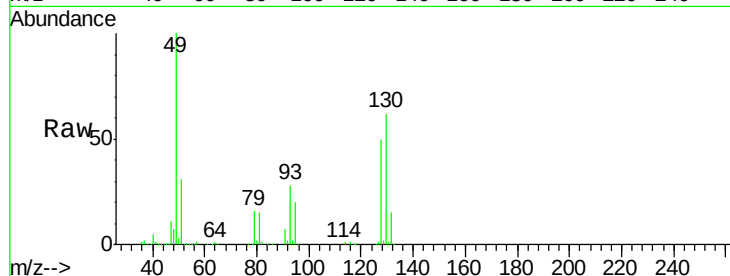
Tot Ion: 49 Resp: 826974

Ion Ratio Lower Upper

49 100

128 50.0 24.0 72.0

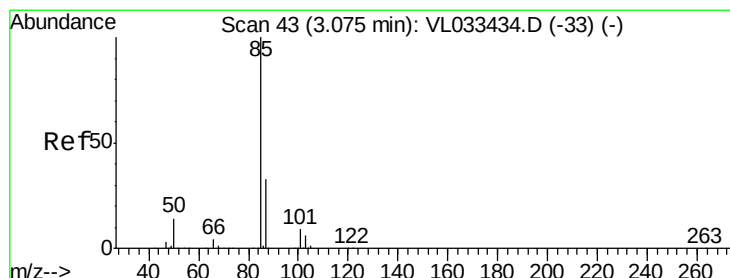
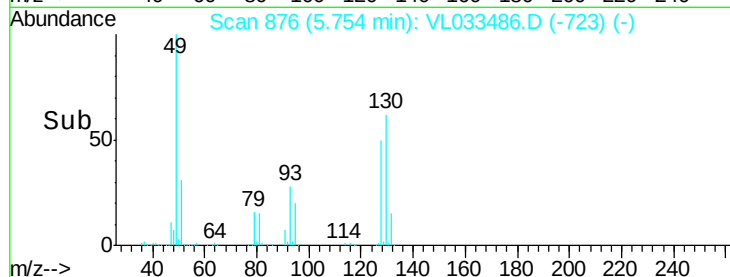
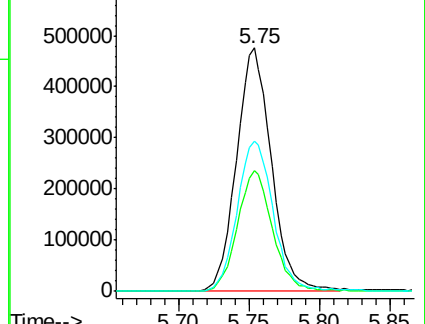
130 64.2 31.2 93.6



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: 0.056 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.01 min

Lab File: VL033486.D

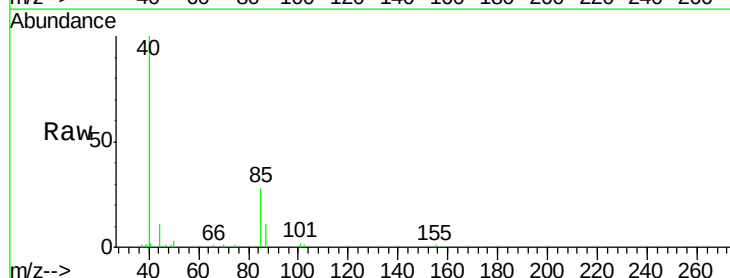
Acq: 28 Mar 2019 2:51

Tgt Ion: 85 Resp: 6742

Ion Ratio Lower Upper

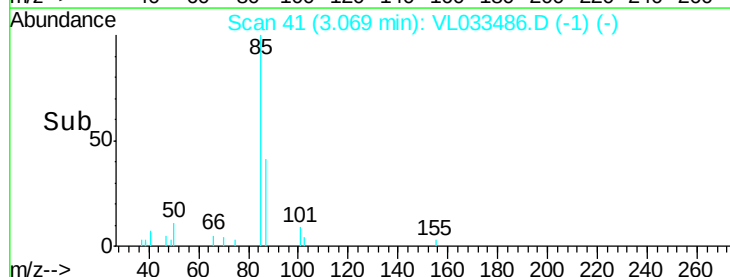
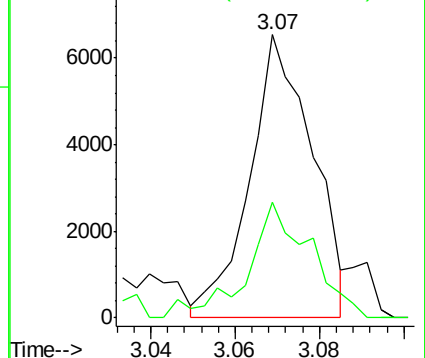
85 100

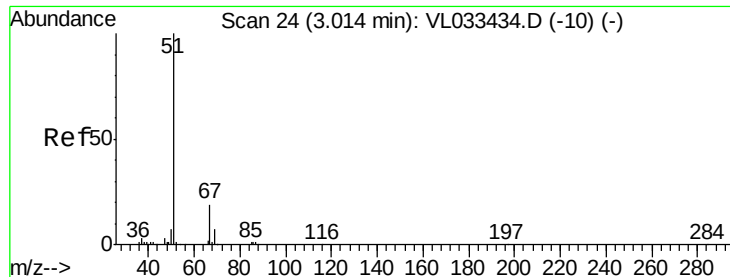
87 39.2 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

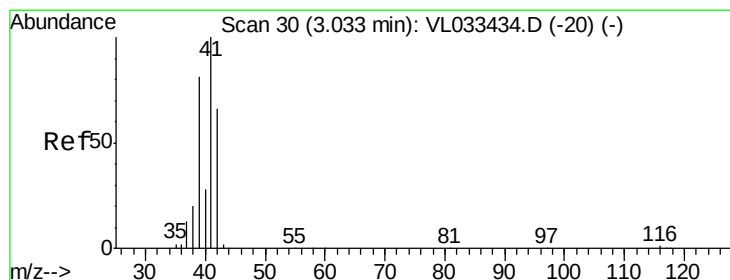
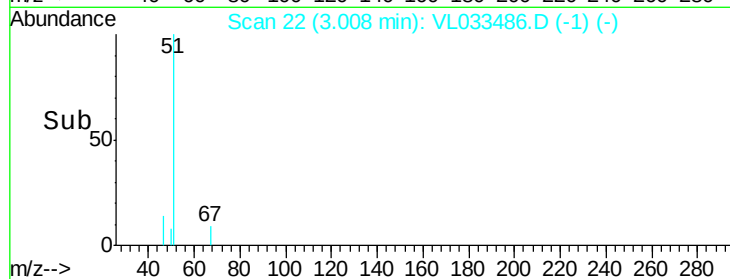
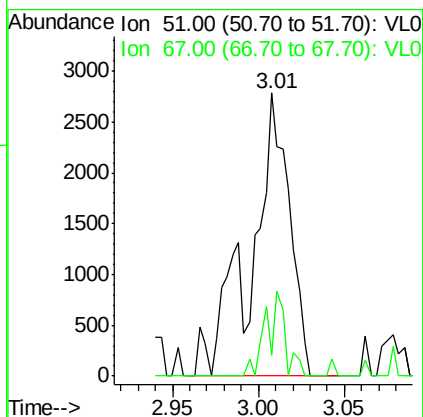
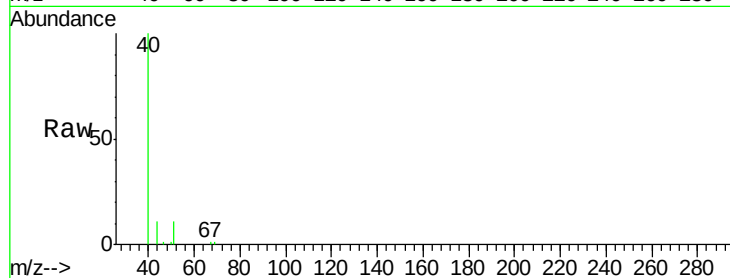




#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 3.01 min Scan# 22
Delta R.T. -0.01 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

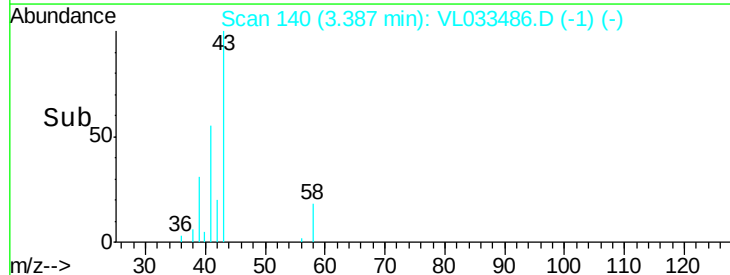
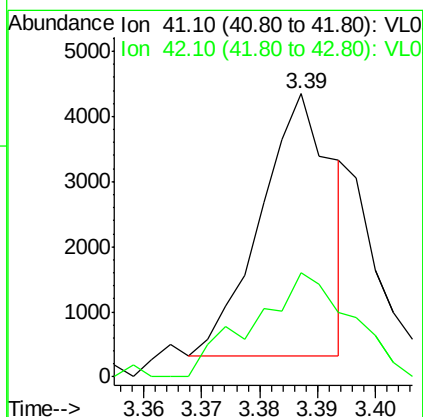
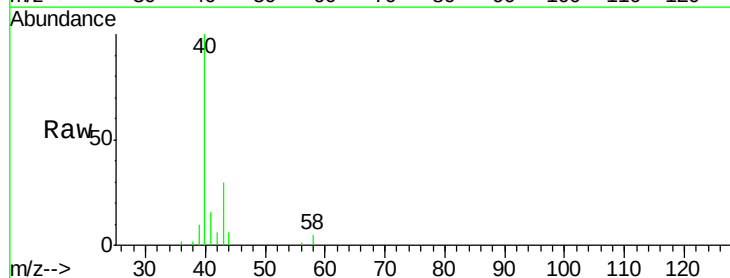
Instrument :
MSVOA_L
ClientSampleId :

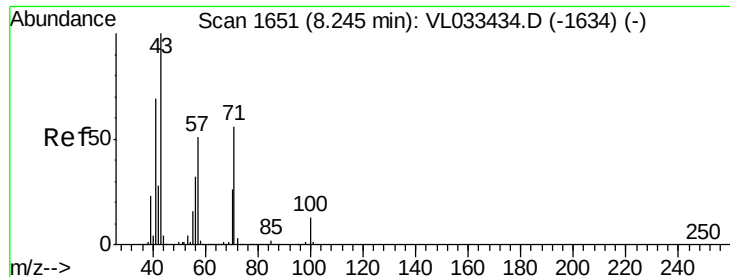
Tot Ion: 51 Resp: 4373
Ion Ratio Lower Upper
51 100
67 14.3 15.7 23.5#



#9
Propene
Concen: 0.087 ppbv
RT: 3.39 min Scan# 140
Delta R.T. 0.35 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

Tgt Ion: 41 Resp: 3469
Ion Ratio Lower Upper
41 100
42 55.8 53.9 80.9

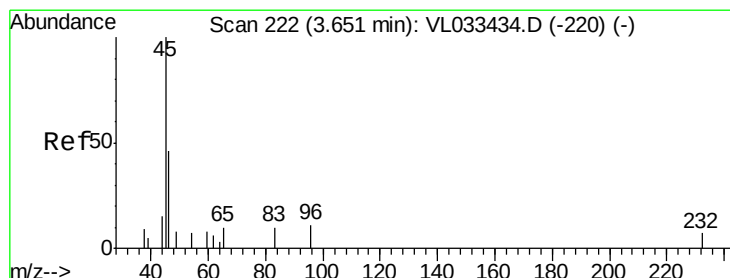
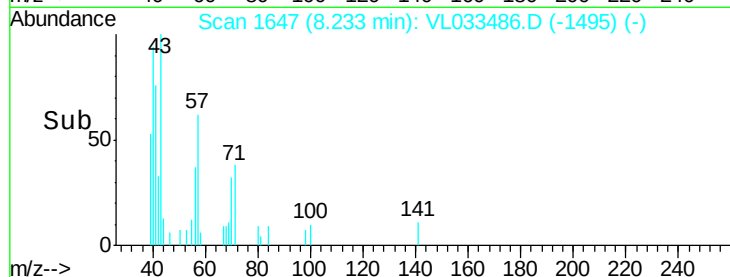
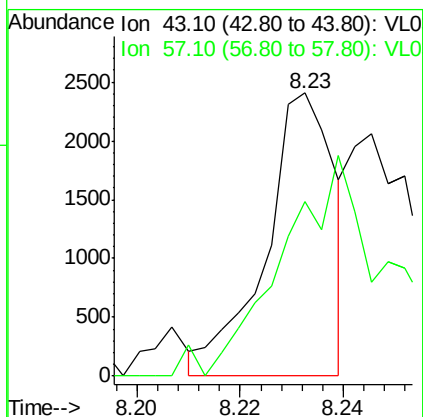
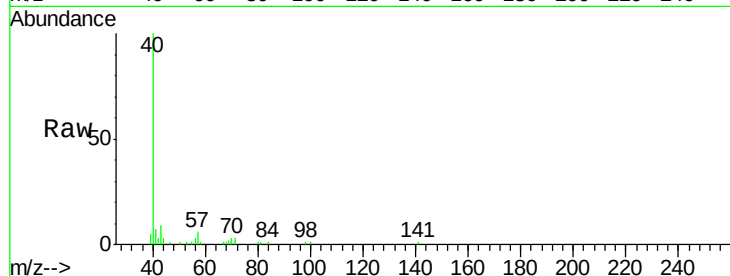




#10
Heptane
Concen: 0.021 ppbv
RT: 8.23 min Scan# 1647
Delta R.T. -0.01 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

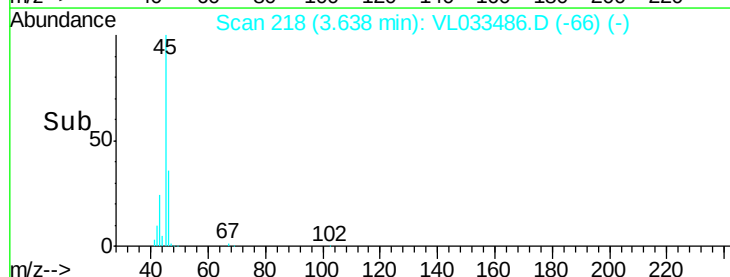
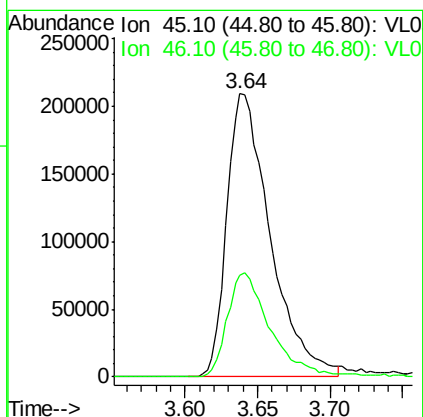
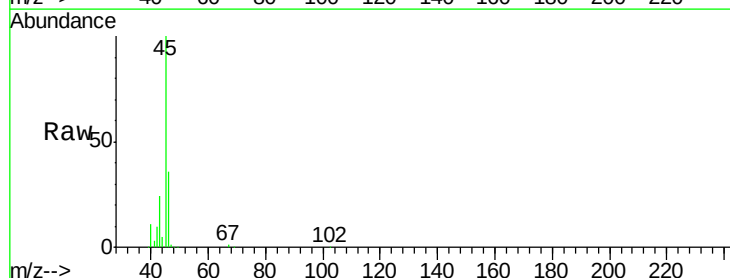
Instrument :
MSVOA_L
ClientSampled :

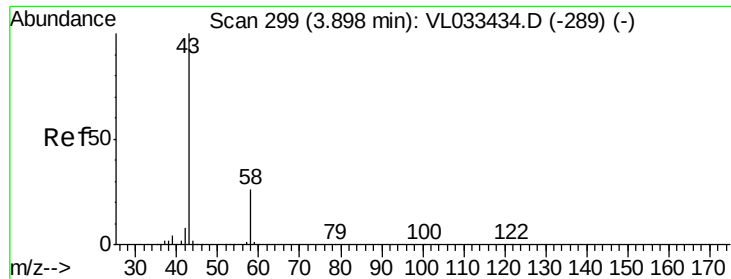
Tot Ion: 43 Resp: 2215
Ion Ratio Lower Upper
43 100
57 0.0 40.6 60.8#



#13
Ethanol
Concen: 42.123 ppbv
RT: 3.64 min Scan# 218
Delta R.T. -0.01 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

Tgt Ion: 45 Resp: 435818
Ion Ratio Lower Upper
45 100
46 36.9 25.4 101.8





#15

Acetone

Concen: 1.683 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033486.D

Acq: 28 Mar 2019 2:51

Instrument :

MSVOA_L

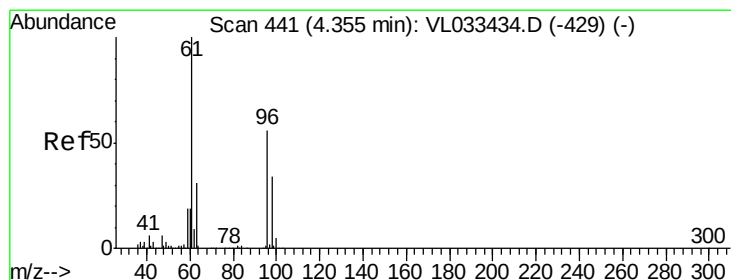
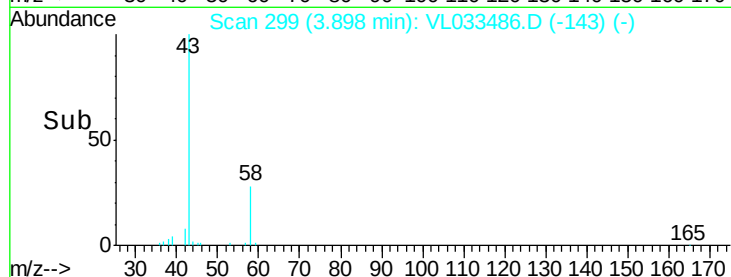
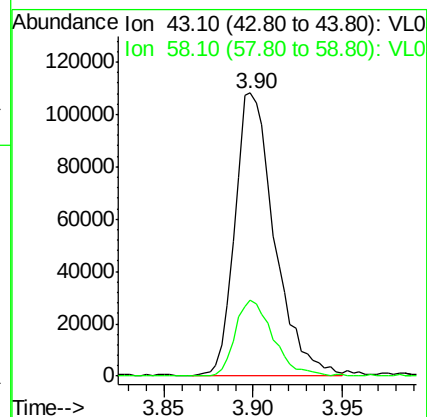
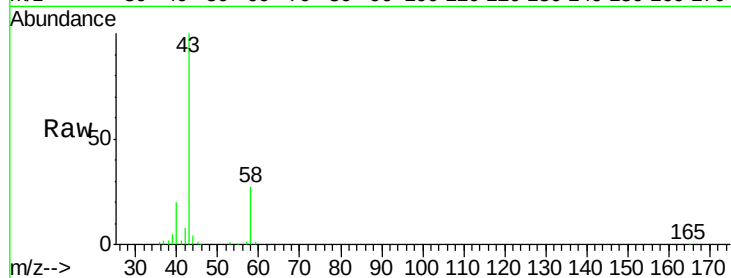
ClientSampleId :

Tot Ion: 43 Resp: 167304

Ion Ratio Lower Upper

43 100

58 25.9 20.5 30.7



#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033486.D

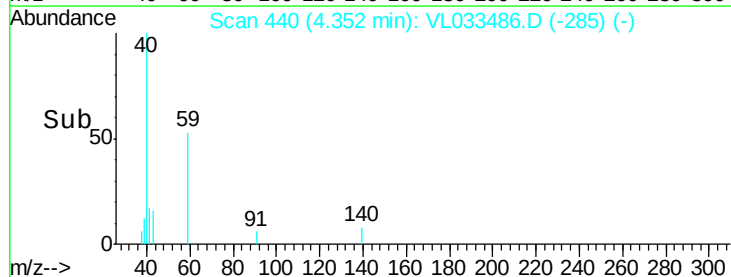
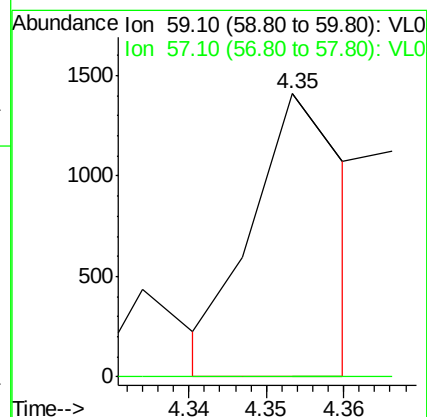
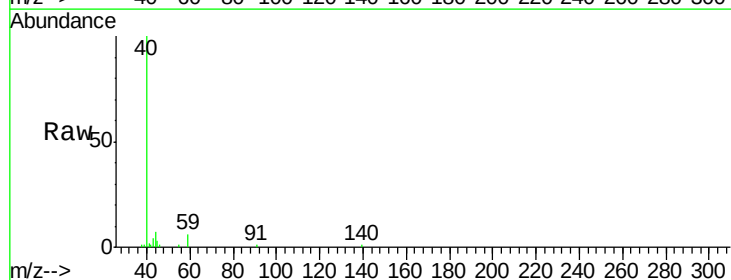
Acq: 28 Mar 2019 2:51

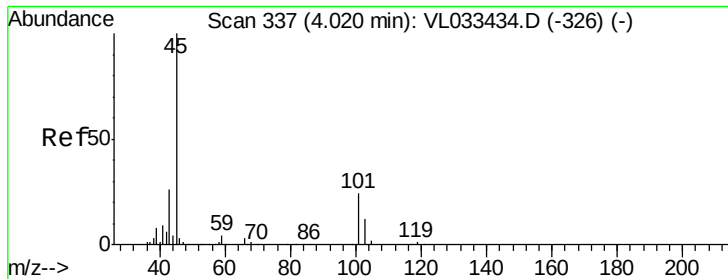
Tgt Ion: 59 Resp: 592

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 0.091 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033486.D

Acq: 28 Mar 2019 2:51

Instrument :

MSVOA_L

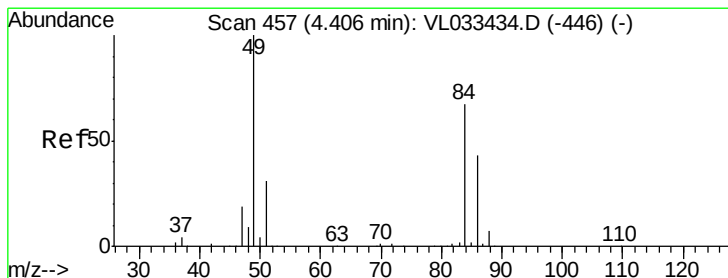
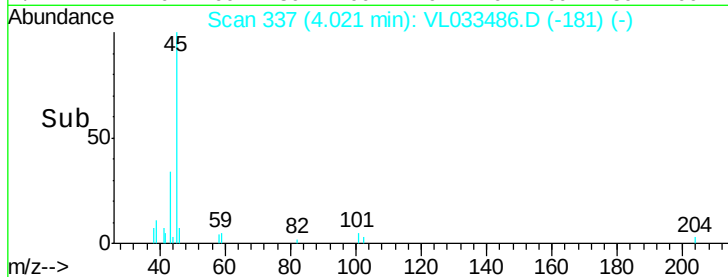
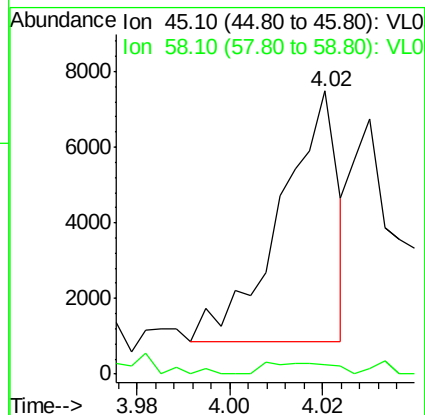
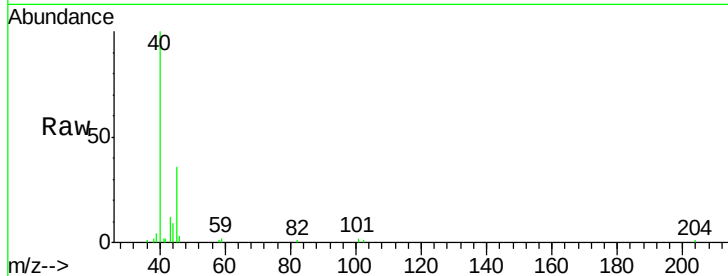
ClientSampleId :

Tot Ion: 45 Resp: 5700

Ion Ratio Lower Upper

45 100

58 761.4 1.4 2.2#



#20

Methylene Chloride

Concen: 0.318 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033486.D

Acq: 28 Mar 2019 2:51

Tgt Ion: 84 Resp: 13411

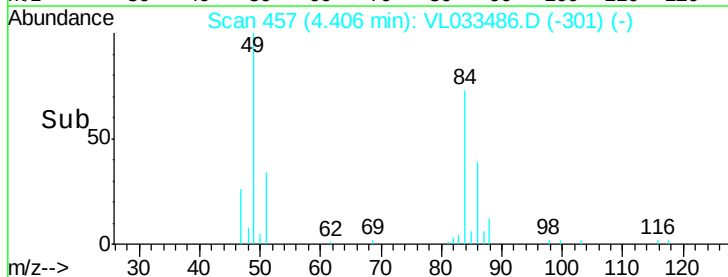
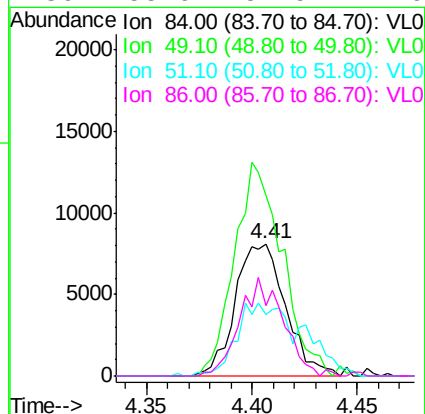
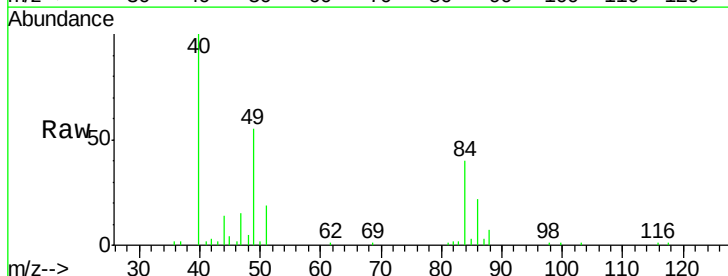
Ion Ratio Lower Upper

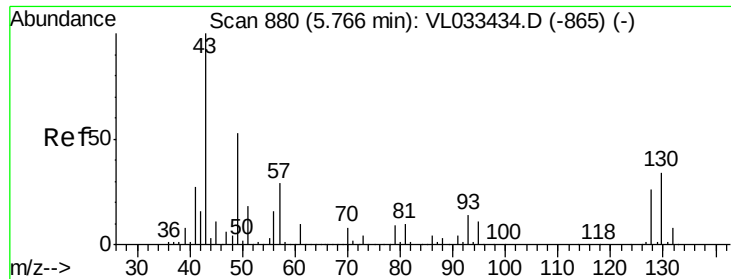
84 100

49 136.1 120.0 180.0

51 46.6 36.7 55.1

86 53.6 51.9 77.9

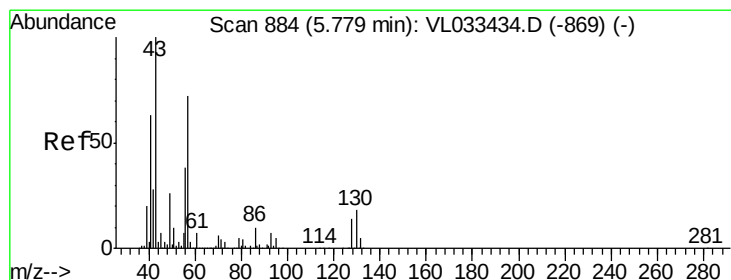
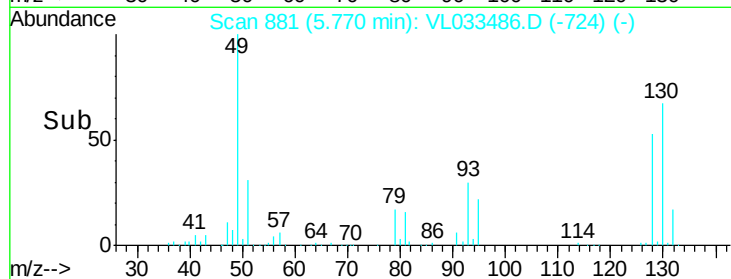
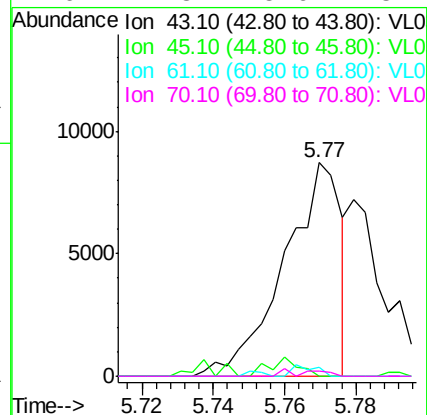
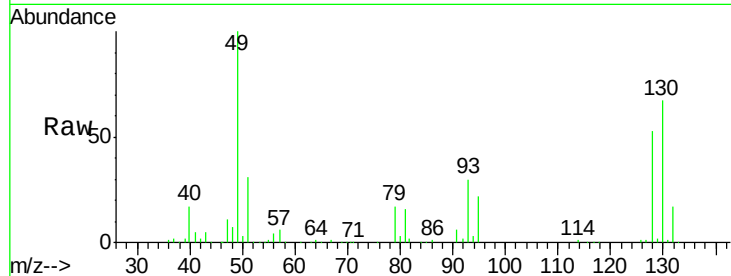




#25
Ethyl Acetate
Concen: 0.052 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

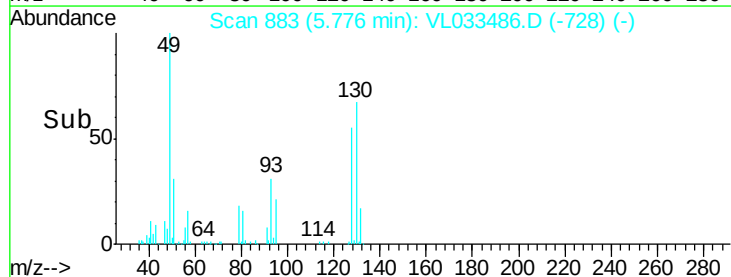
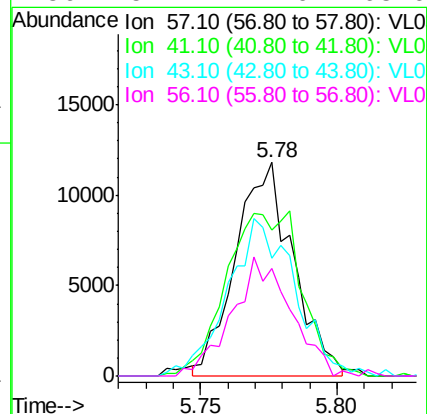
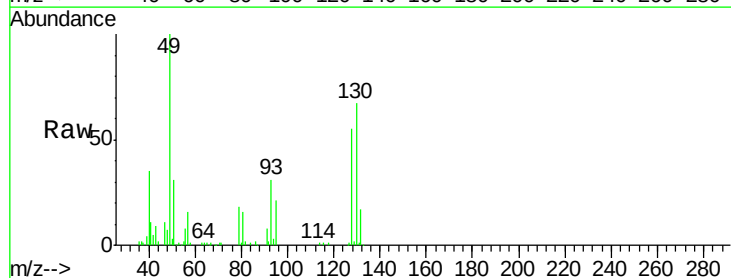
Instrument :
MSVOA_L
ClientSampleId :

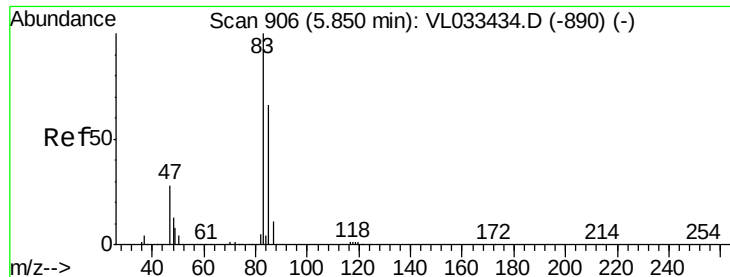
Tot Ion:	43	Resp:	9638
Ion	Ratio	Lower	Upper
43	100		
45	7.7	7.8	11.6#
61	2.9	7.3	10.9#
70	1.8	5.6	8.4#



#26
Hexane
Concen: 0.210 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

Tgt Ion:	57	Resp:	17221
Ion	Ratio	Lower	Upper
57	100		
41	100.2	70.7	106.1
43	86.4	182.6	274.0#
56	57.4	42.0	63.0

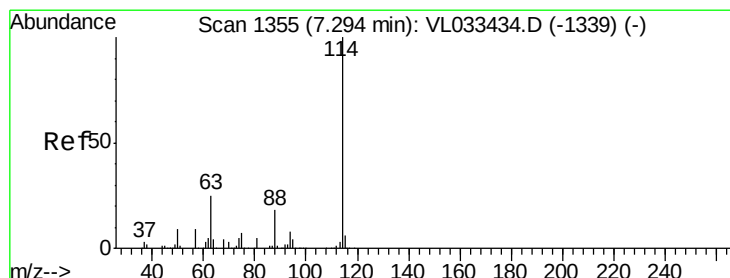
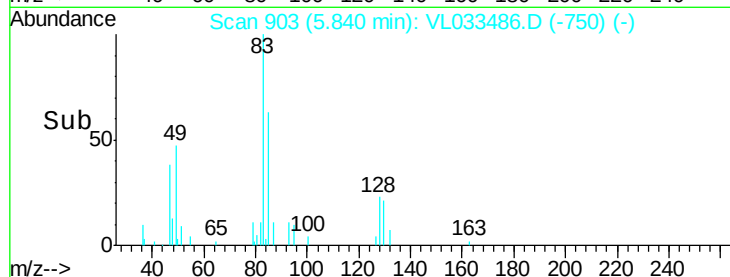
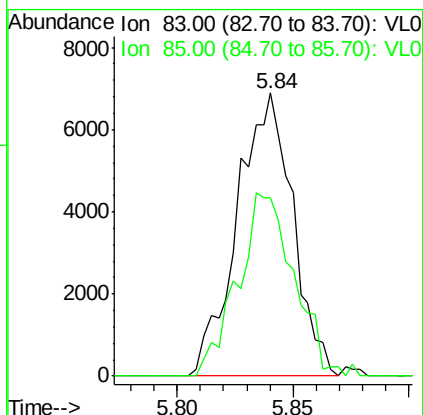
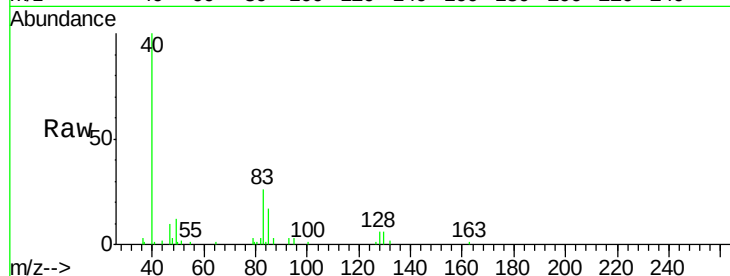




#29
Chloroform
Concen: 0.081 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

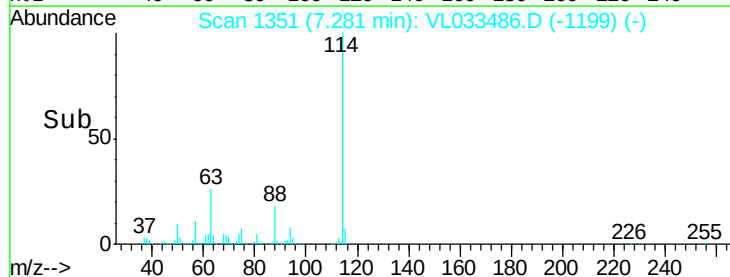
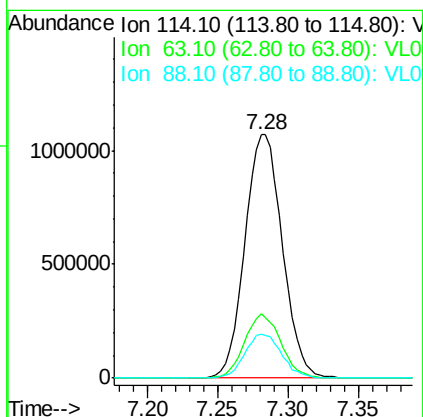
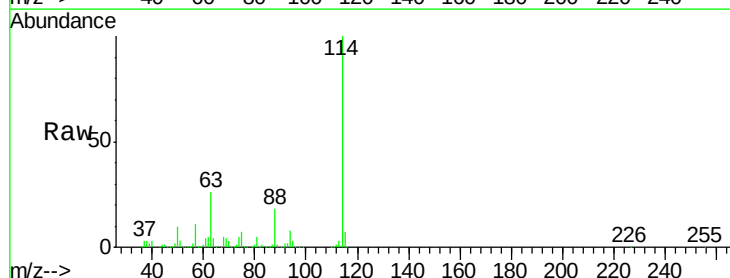
Instrument :
MSVOA_L
ClientSampled :

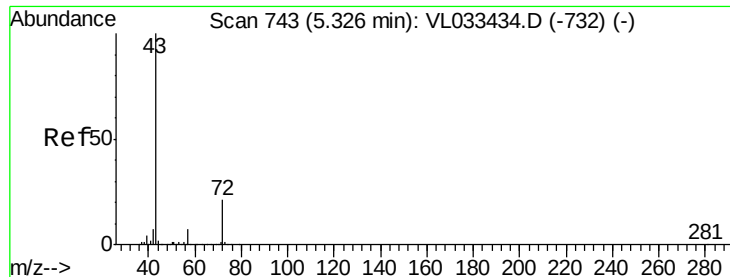
Tot Ion: 83 Resp: 11438
Ion Ratio Lower Upper
83 100
85 60.0 52.6 79.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

Tgt Ion: 114 Resp: 1992100
Ion Ratio Lower Upper
114 100
63 25.7 21.5 32.3
88 17.8 14.5 21.7





#34

2-Butanone

Concen: 0.126 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033486.D

Acq: 28 Mar 2019 2:51

Instrument :

MSVOA_L

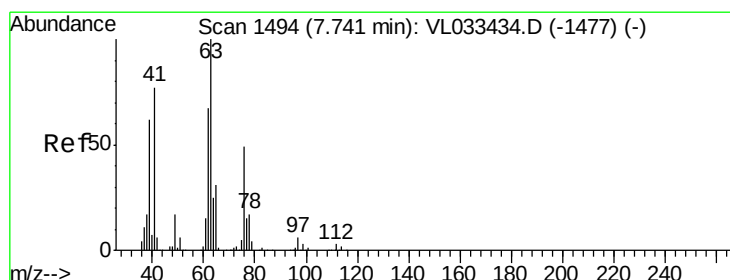
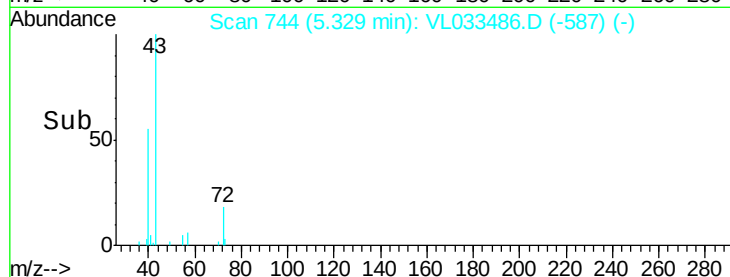
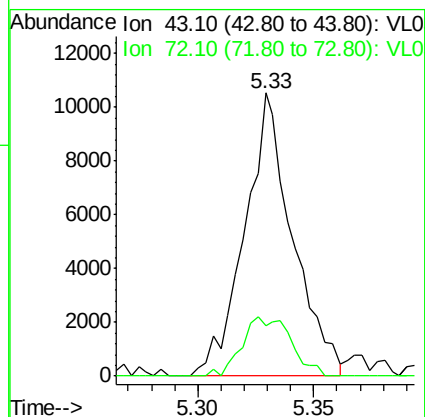
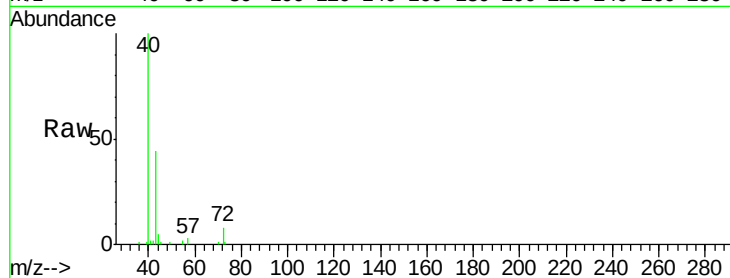
ClientSampleId :

Tot Ion: 43 Resp: 15138

Ion Ratio Lower Upper

43 100

72 21.1 17.4 26.2



#39

1,2-Dichloropropane

Concen: 7.774 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.46 min

Lab File: VL033486.D

Acq: 28 Mar 2019 2:51

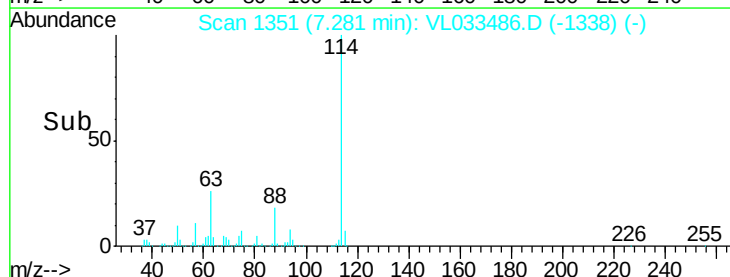
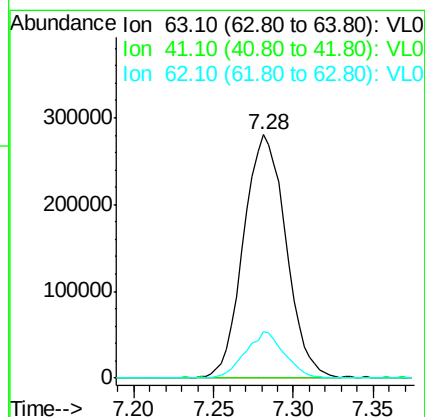
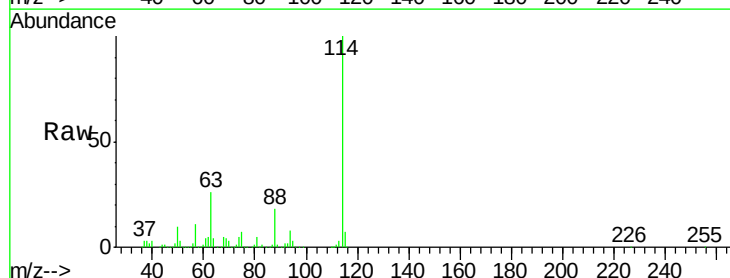
Tgt Ion: 63 Resp: 509047

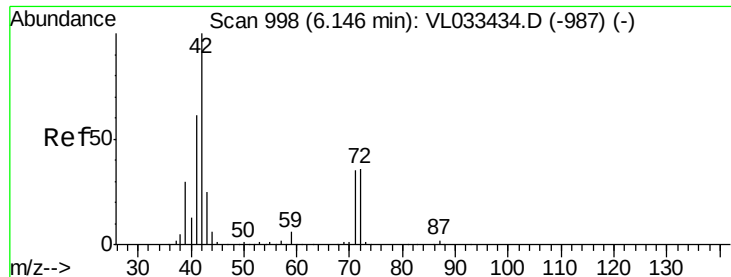
Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

62 18.8 54.0 81.0#





#41

Tetrahydrofuran

Concen: 0.022 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VL033486.D

Acq: 28 Mar 2019 2:51

Instrument :

MSVOA_L

ClientSampleId :

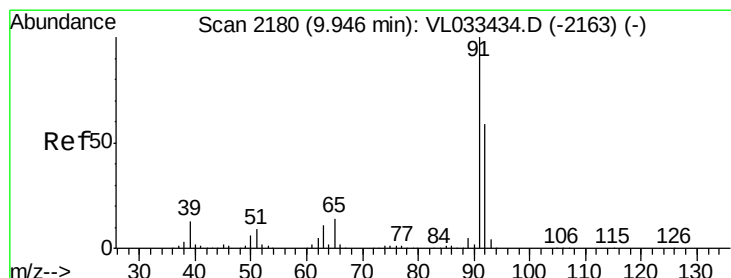
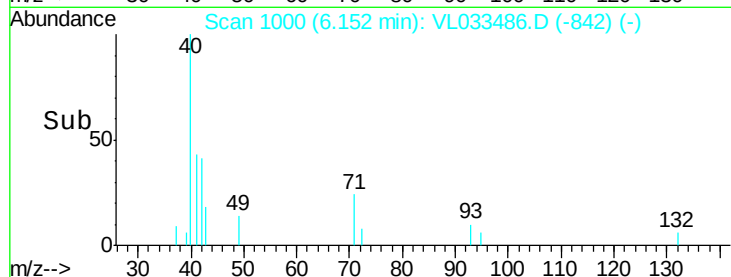
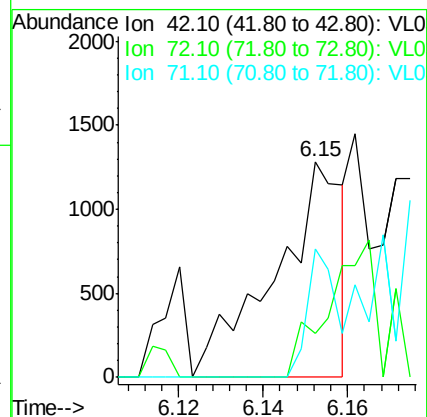
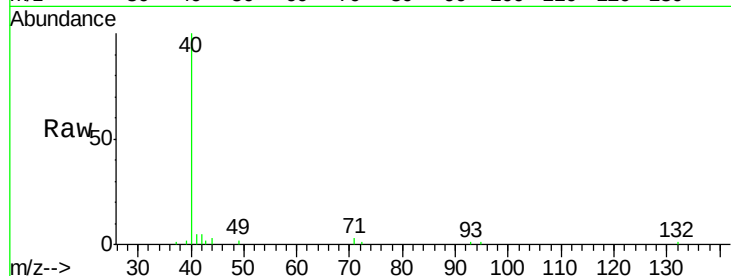
Tot Ion: 42 Resp: 1428

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

71 0.0 29.4 44.2#



#53

Toluene

Concen: 0.024 ppbv

RT: 9.93 min Scan# 2174

Delta R.T. -0.02 min

Lab File: VL033486.D

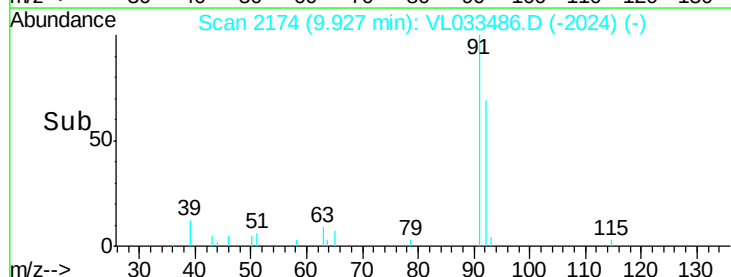
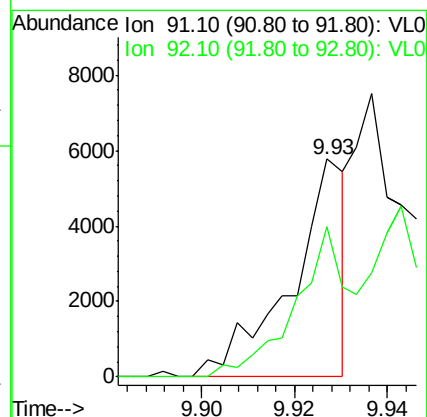
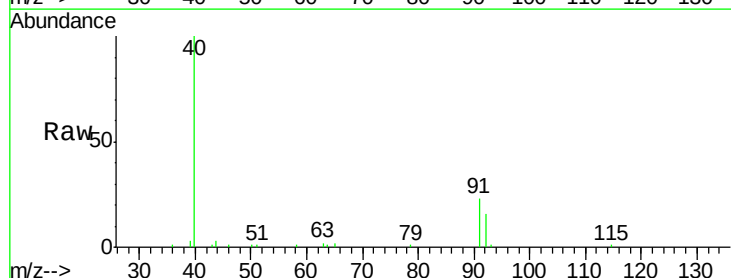
Acq: 28 Mar 2019 2:51

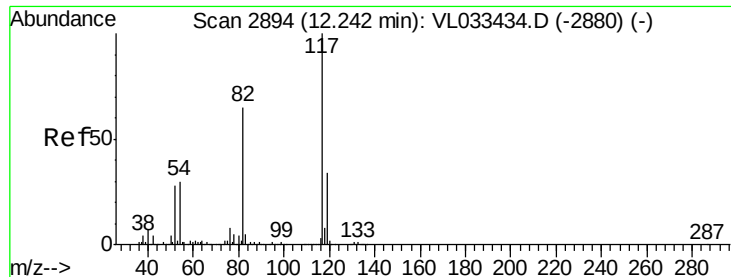
Tgt Ion: 91 Resp: 4706

Ion Ratio Lower Upper

91 100

92 0.0 47.4 71.0#

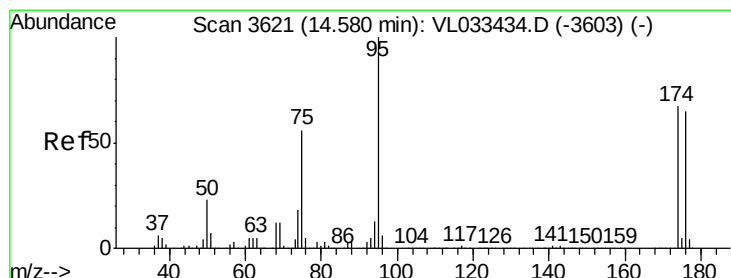
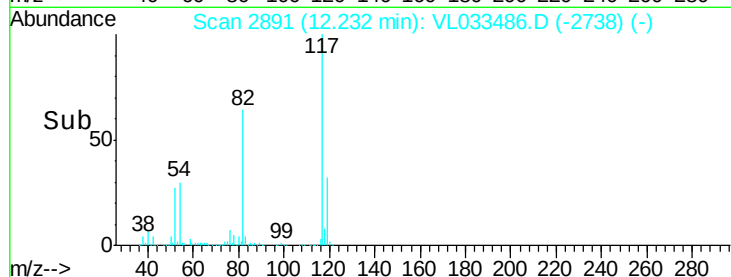
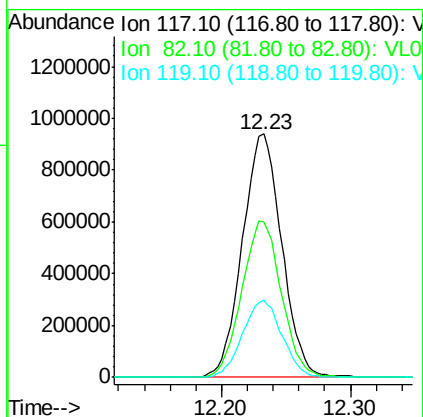
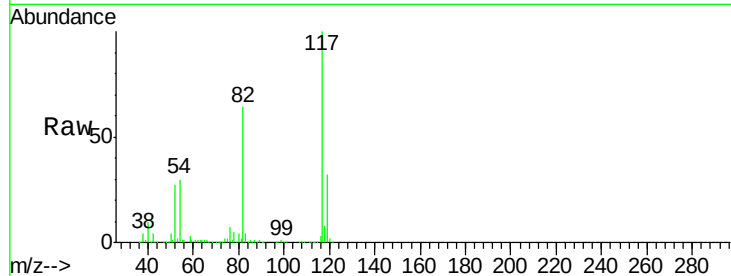




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 1996312
Ion Ratio Lower Upper
117 100
82 65.1 51.5 77.3
119 32.1 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.799 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033486.D
Acq: 28 Mar 2019 2:51

Tgt Ion: 95 Resp: 1533545
Ion Ratio Lower Upper
95 100
174 67.4 52.9 79.3
175 4.8 3.8 5.6

