

Data File : VL034698.D
Acq On : 26 Feb 2020 21:51
Operator : SY/AP
Sample : L1663-01DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP-104DL2

Quant Time: Feb 27 07:31:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1019155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2113026	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2075526	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1739889	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

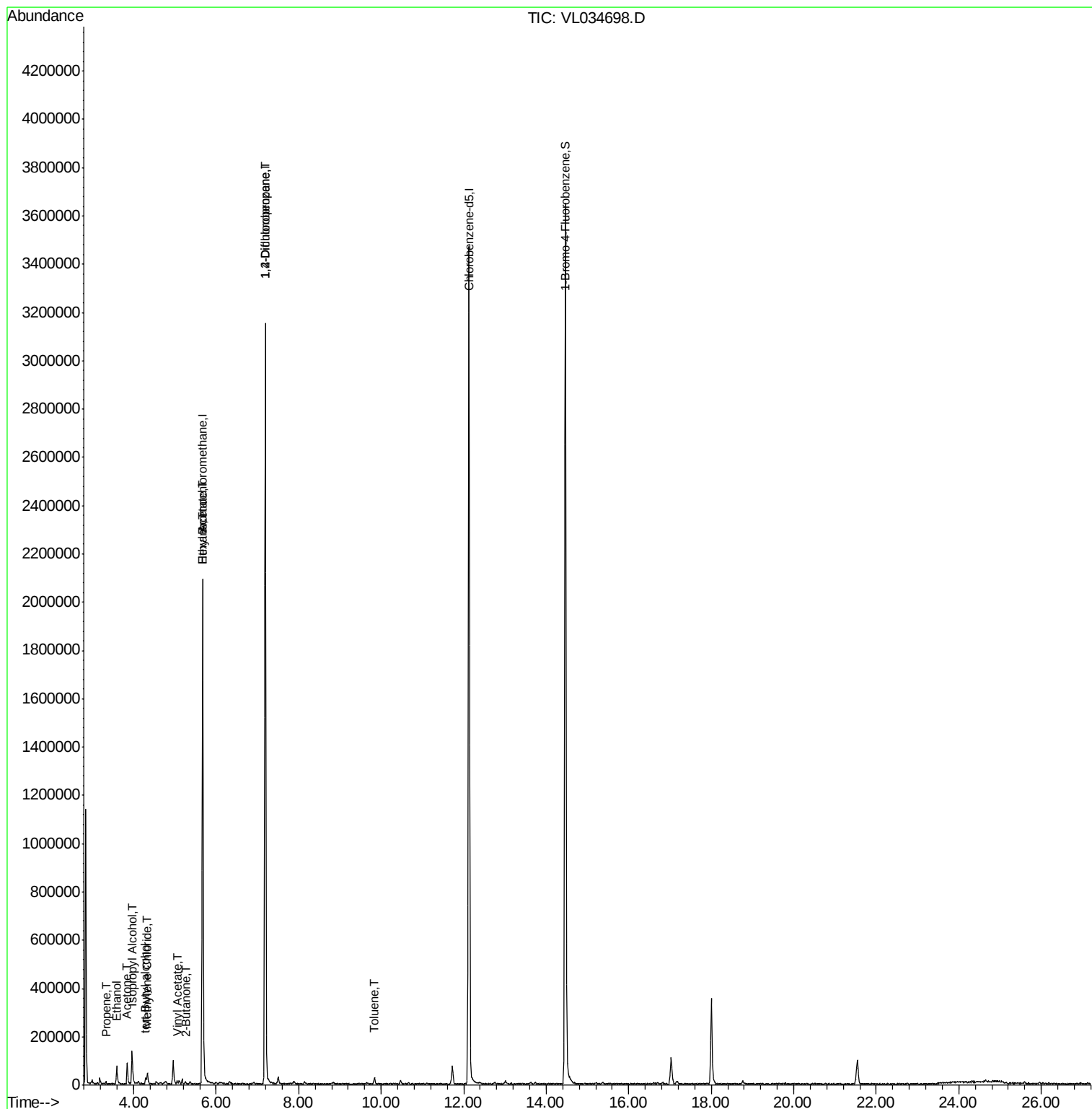
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.33	41	2021	0.044	ppbv	94
13) Ethanol	3.58	45	60771	4.184	ppbv	85
15) Acetone	3.84	43	77581	0.668	ppbv	98
17) tert-Butyl alcohol	4.29	59	4486	0.050	ppbv #	71
19) Isopropyl Alcohol	3.96	45	136855	1.978	ppbv #	96
20) Methylene Chloride	4.33	84	13271	0.307	ppbv #	76
23) Vinyl Acetate	5.06	43	3278	0.021	ppbv #	61
25) Ethyl Acetate	5.68	43	5075	0.025	ppbv #	74
26) Hexane	5.68	57	9738	0.103	ppbv #	48
34) 2-Butanone	5.26	43	4280	0.032	ppbv #	53
39) 1,2-Dichloropropane	7.19	63	608395	8.379	ppbv #	23
53) Toluene	9.84	91	18729	0.096	ppbv	94

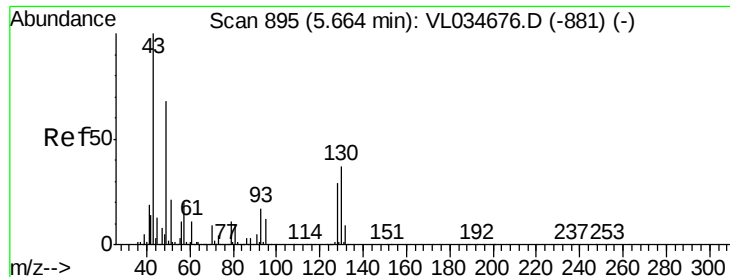
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL034698.D

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Instrument :

MSVOA_L

ClientSampleId :

EP-104DL2

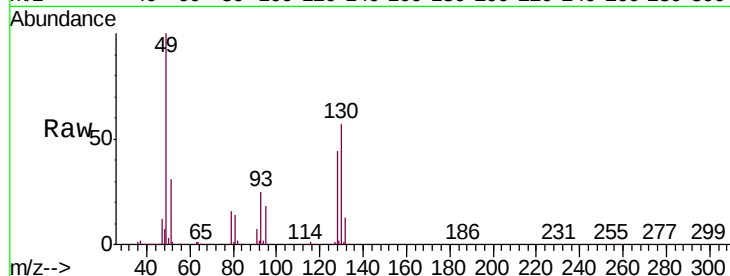
Tgt Ion: 49 Resp: 1019155

Ion Ratio Lower Upper

49 100

128 44.1 21.6 65.0

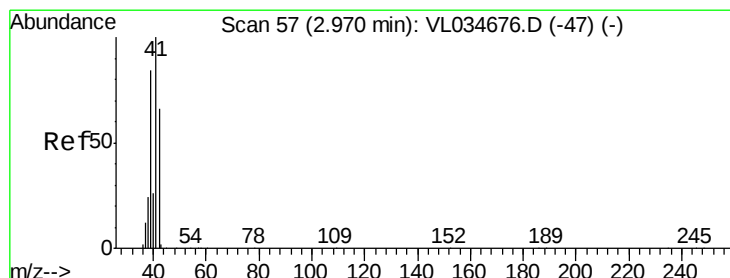
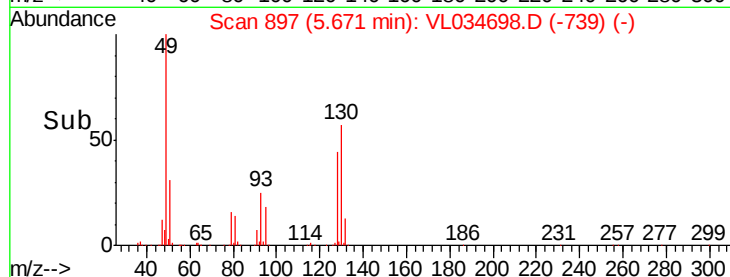
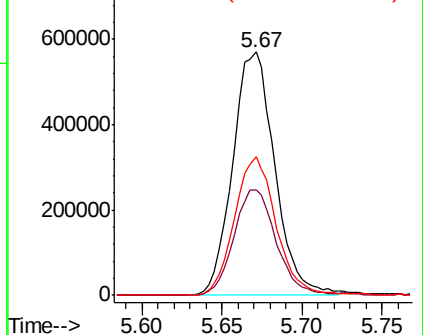
130 56.9 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.044 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.36 min

Lab File: VL034698.D

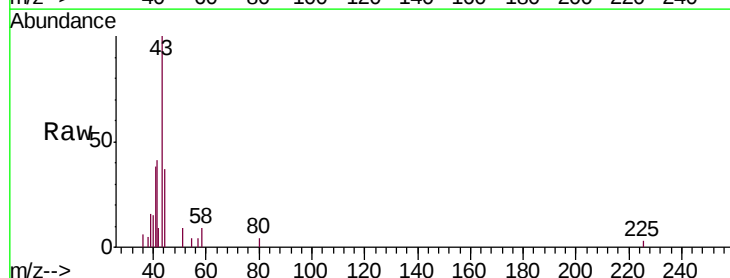
Acq: 26 Feb 2020 21:51

Tgt Ion: 41 Resp: 2021

Ion Ratio Lower Upper

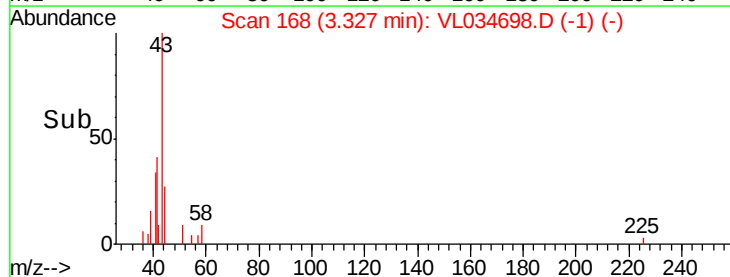
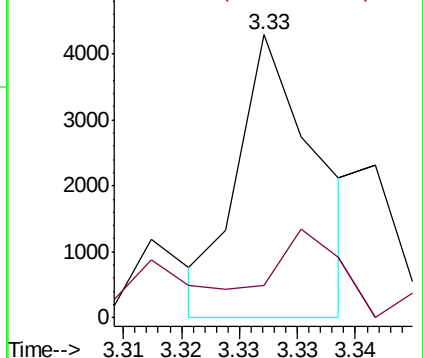
41 100

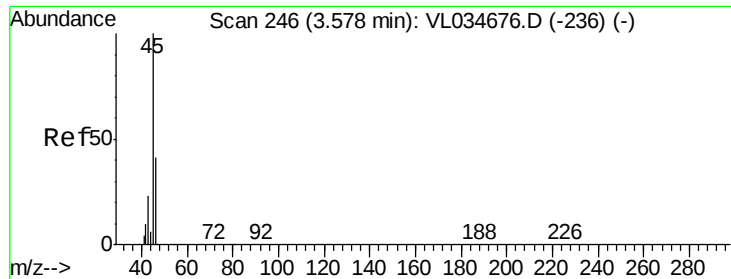
42 73.6 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 4.184 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034698.D

Acq: 26 Feb 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

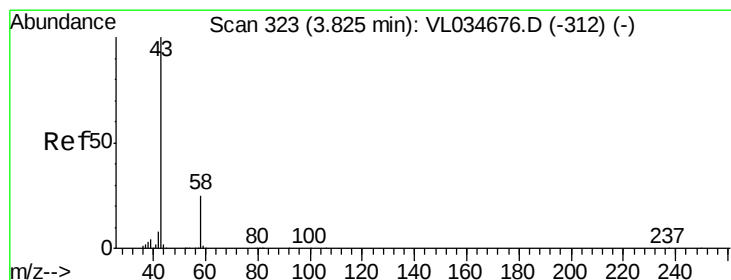
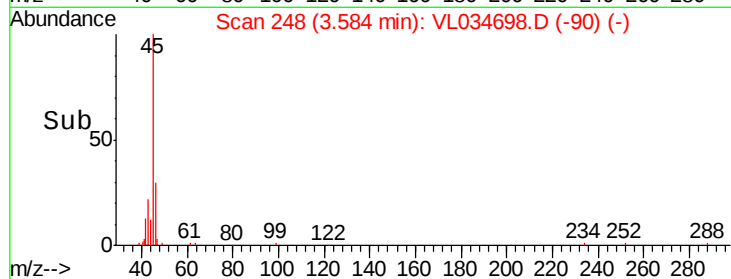
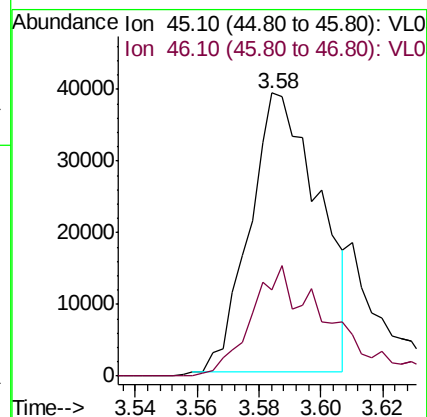
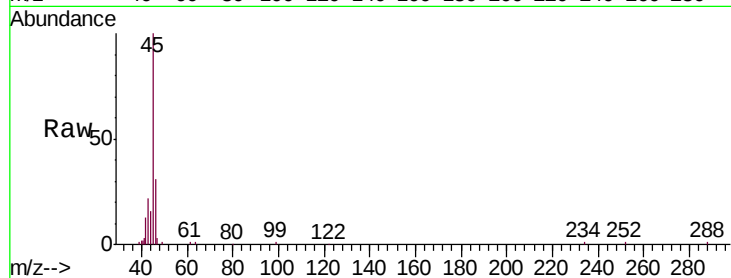
EP-104DL2

Tgt Ion: 45 Resp: 60771

Ion Ratio Lower Upper

45 100

46 47.5 15.4 61.4



#15

Acetone

Concen: 0.668 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.02 min

Lab File: VL034698.D

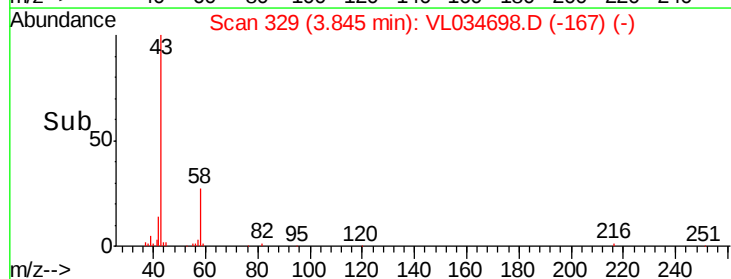
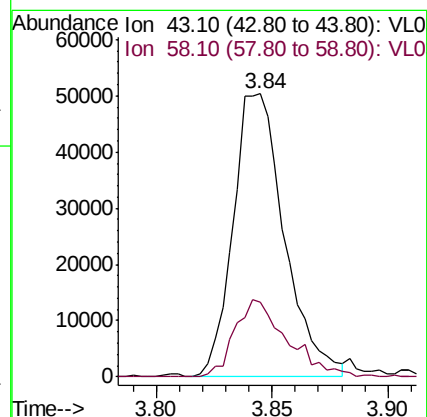
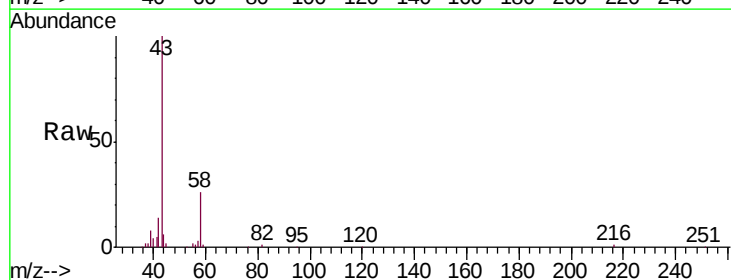
Acq: 26 Feb 2020 21:51

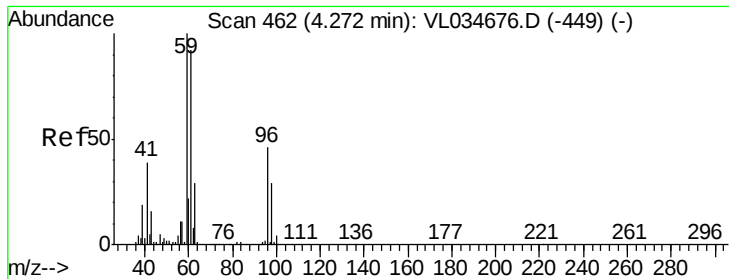
Tgt Ion: 43 Resp: 77581

Ion Ratio Lower Upper

43 100

58 27.9 21.4 32.0



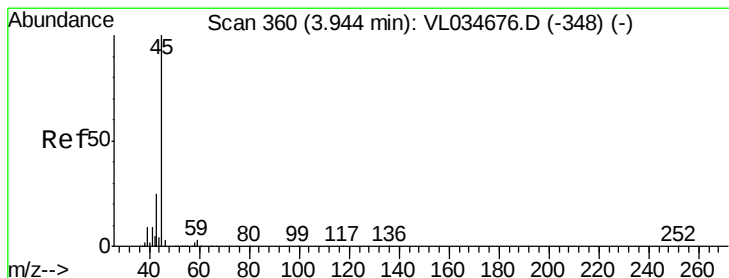
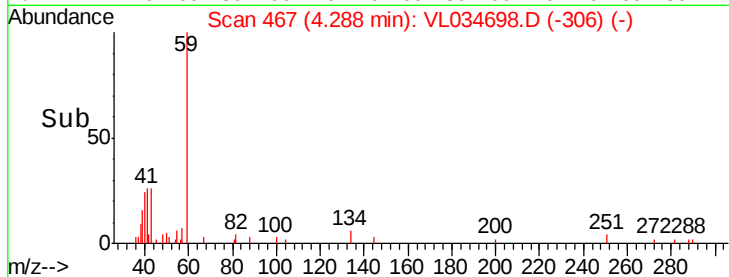
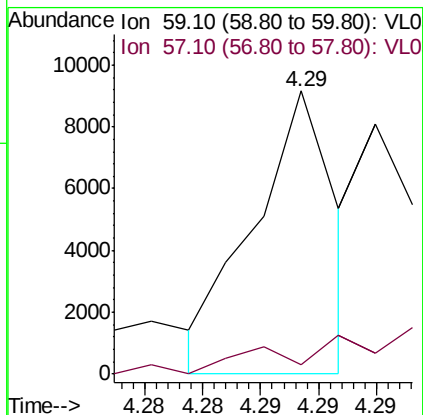
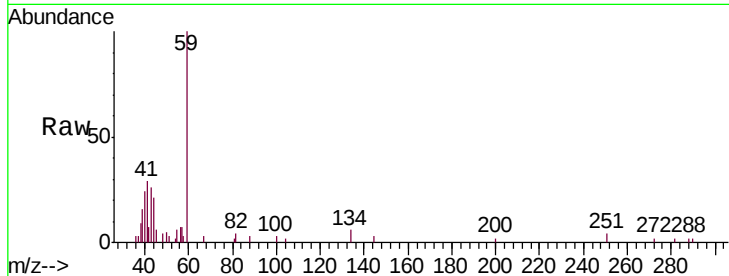


#17

tert-Butyl alcohol
 Concen: 0.050 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.02 min
 Lab File: VL034698.D
 Acq: 26 Feb 2020 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 EP-104DL2

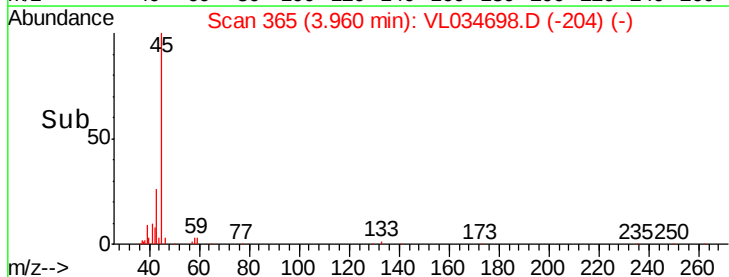
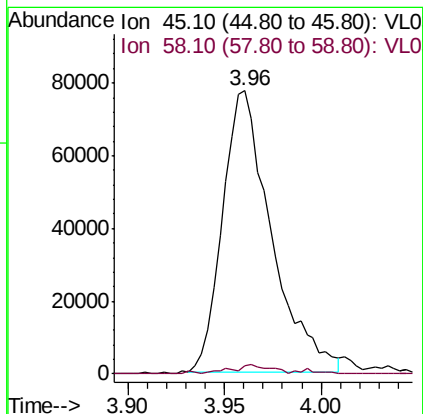
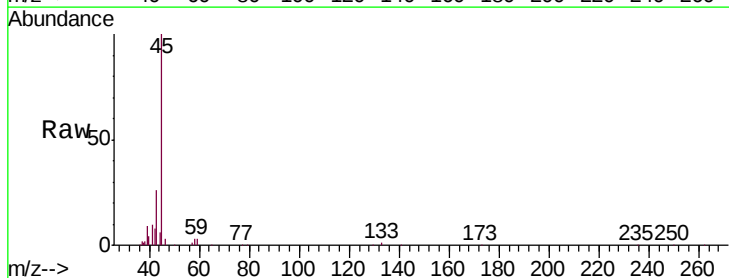
Tgt Ion: 59 Resp: 4486
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

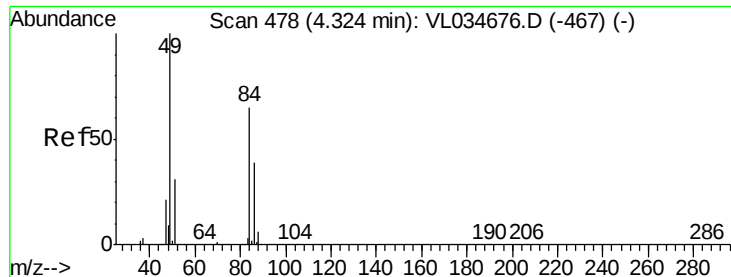


#19

Isopropyl Alcohol
 Concen: 1.978 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.02 min
 Lab File: VL034698.D
 Acq: 26 Feb 2020 21:51

Tgt Ion: 45 Resp: 136855
 Ion Ratio Lower Upper
 45 100
 58 3.5 1.8 2.6#

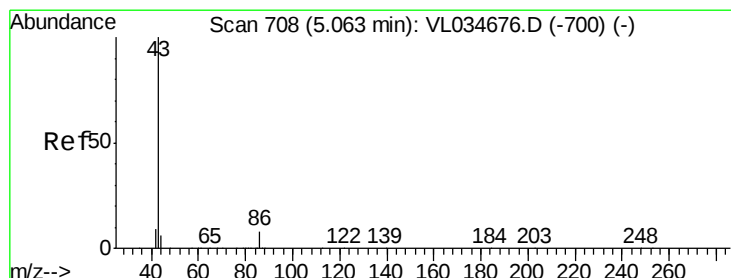
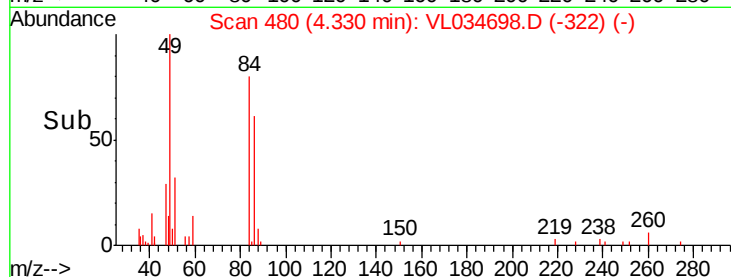
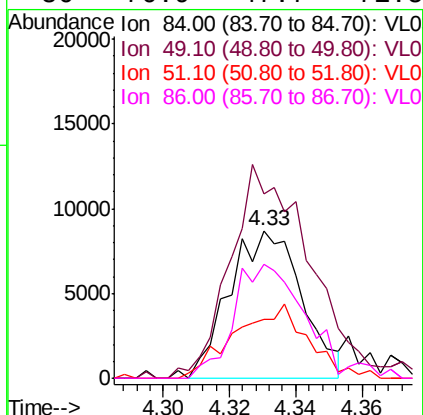
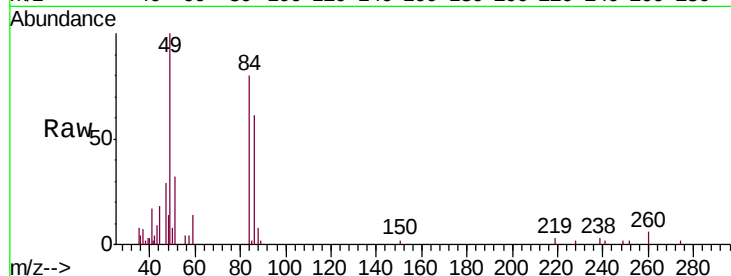




#20
Methylene Chloride
Concen: 0.307 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL034698.D
Acq: 26 Feb 2020 21:51

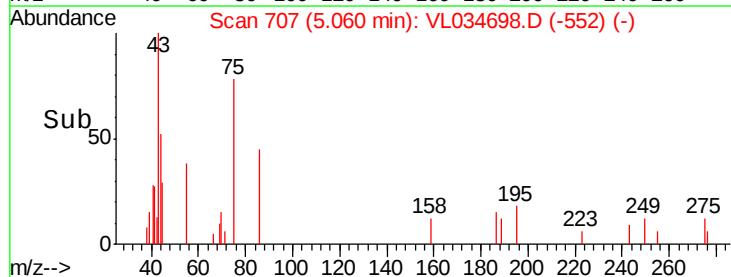
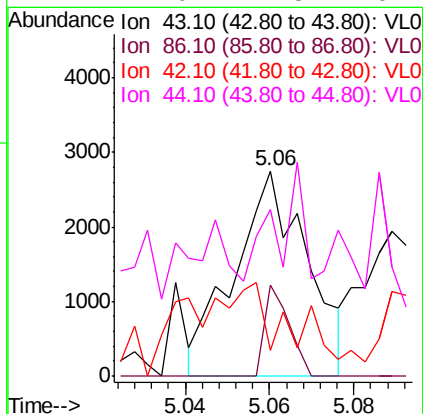
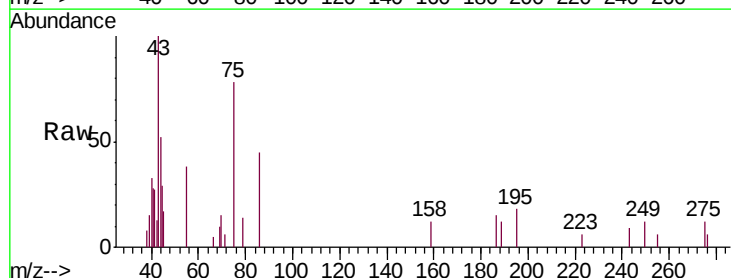
Instrument :
MSVOA_L
ClientSampleId :
EP-104DL2

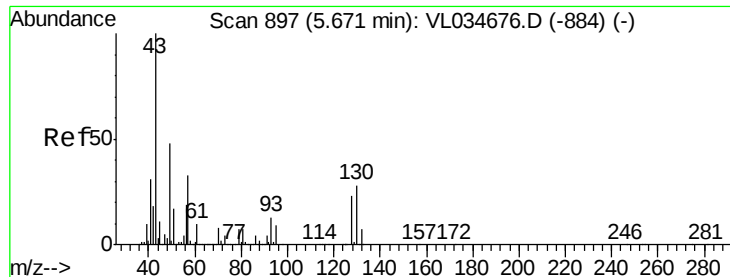
Tgt Ion: 84 Resp: 13271
Ion Ratio Lower Upper
84 100
49 119.8 122.8 184.2#
51 37.1 38.6 58.0#
86 76.9 47.7 71.5#



#23
Vinyl Acetate
Concen: 0.021 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.00 min
Lab File: VL034698.D
Acq: 26 Feb 2020 21:51

Tgt Ion: 43 Resp: 3278
Ion Ratio Lower Upper
43 100
86 32.1 6.0 9.0#
42 3.2 8.0 12.0#
44 17.0 4.5 6.7#

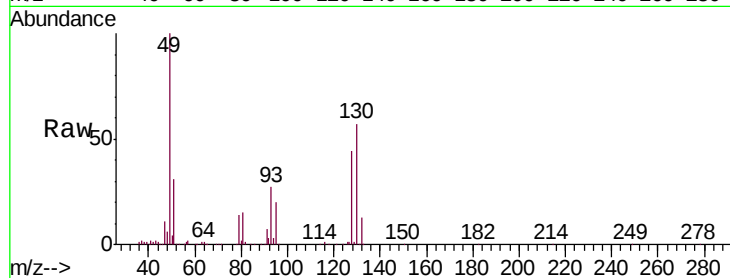




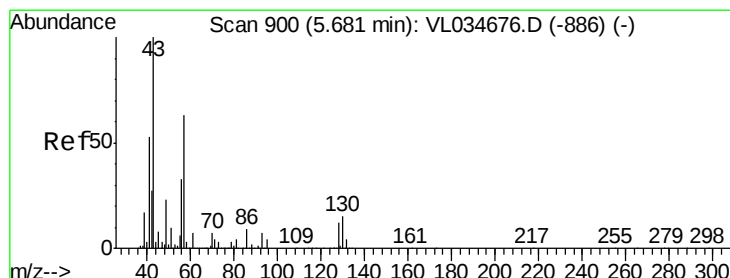
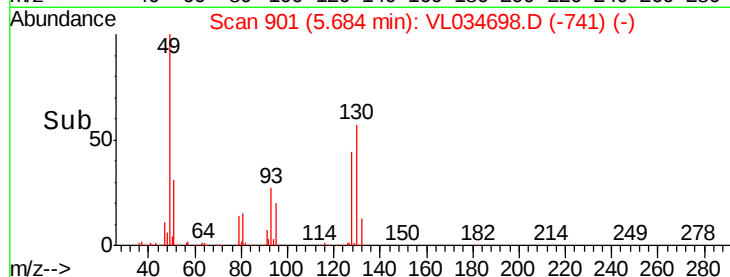
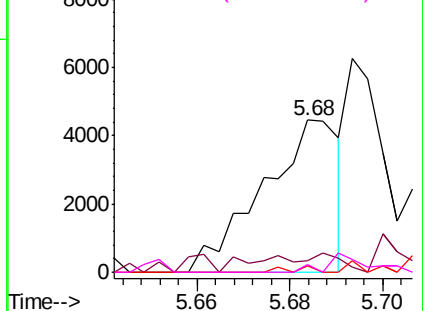
#25
Ethyl Acetate
Concen: 0.025 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL034698.D
Acq: 26 Feb 2020 21:51

Instrument :
MSVOA_L
ClientSampleId :
EP-104DL2

Tgt Ion:	43	Resp:	5075
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.0	7.8	11.6#
70	0.0	6.1	9.1#

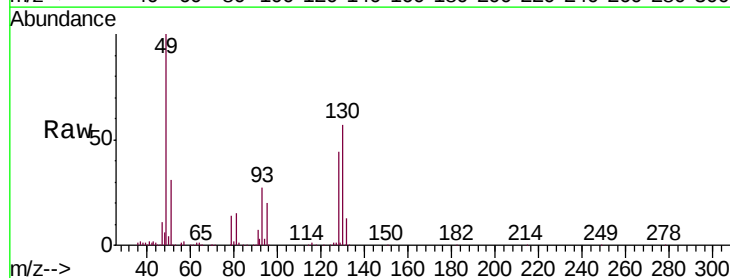


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

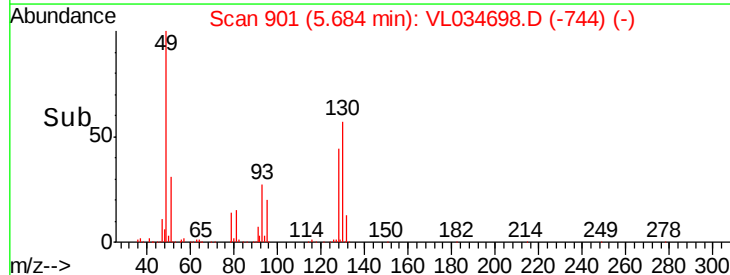
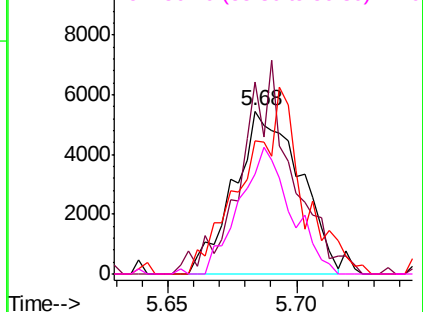


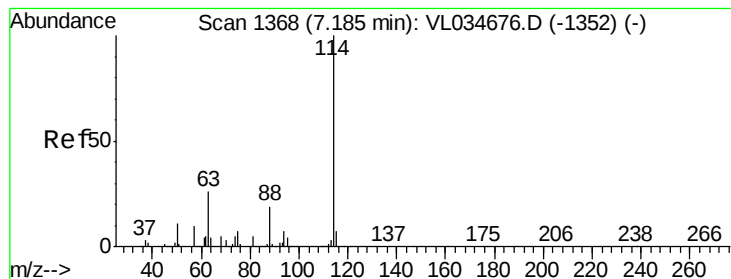
#26
Hexane
Concen: 0.103 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034698.D
Acq: 26 Feb 2020 21:51

Tgt Ion:	57	Resp:	9738
Ion	Ratio	Lower	Upper
57	100		
41	105.4	70.3	105.5
43	101.1	177.0	265.4#
56	61.6	42.6	64.0



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: 7.19 min Scan# 1370

Delta R.T. 0.01 min

Lab File: VL034698.D

Acq: 26 Feb 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

EP-104DL2

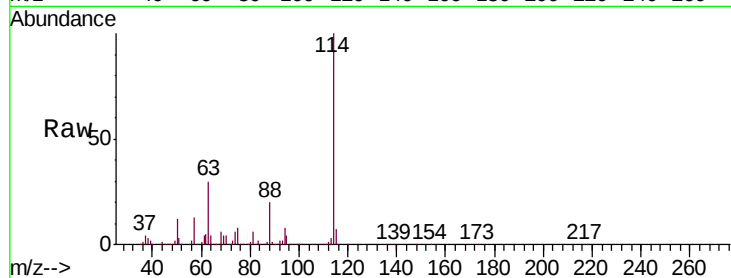
Tgt Ion:114 Resp: 2113026

Ion Ratio Lower Upper

114 100

63 29.0 22.9 34.3

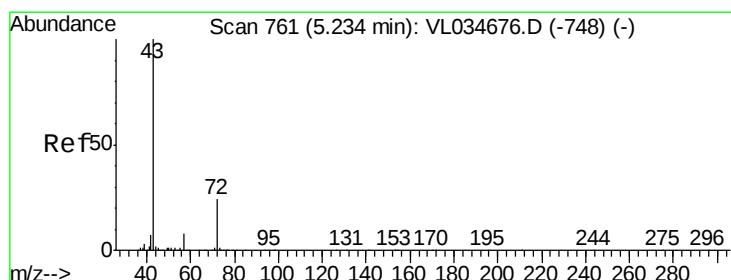
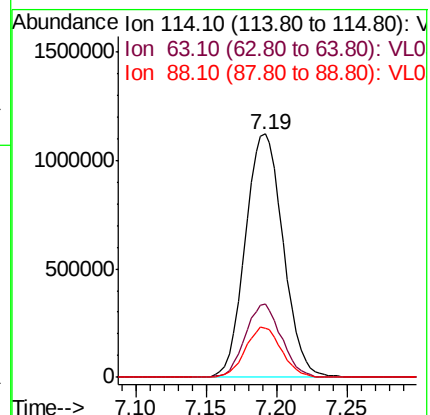
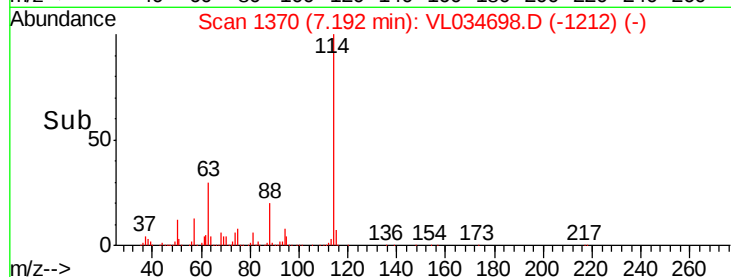
88 19.8 15.8 23.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.032 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.02 min

Lab File: VL034698.D

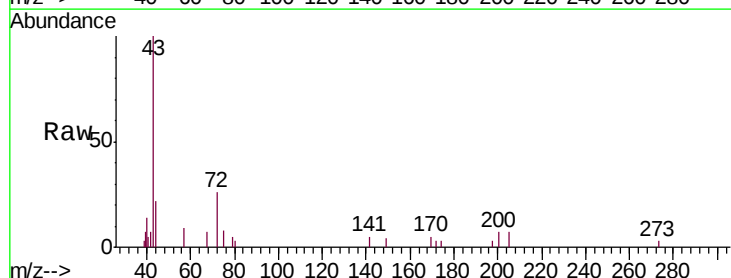
Acq: 26 Feb 2020 21:51

Tgt Ion: 43 Resp: 4280

Ion Ratio Lower Upper

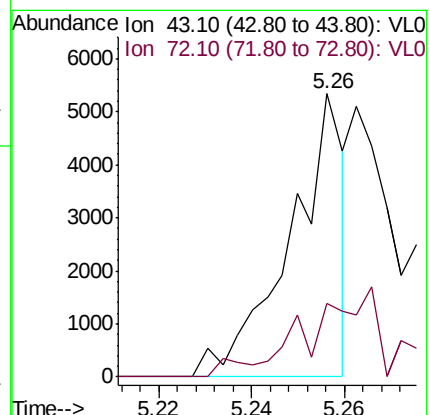
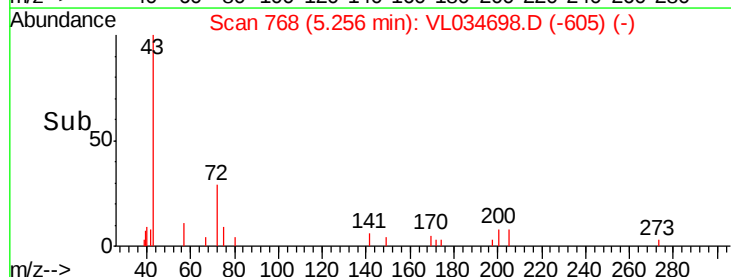
43 100

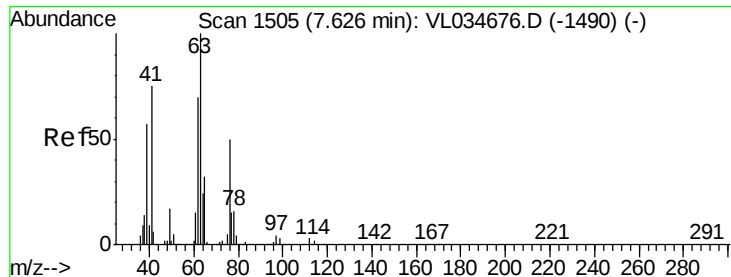
72 0.0 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

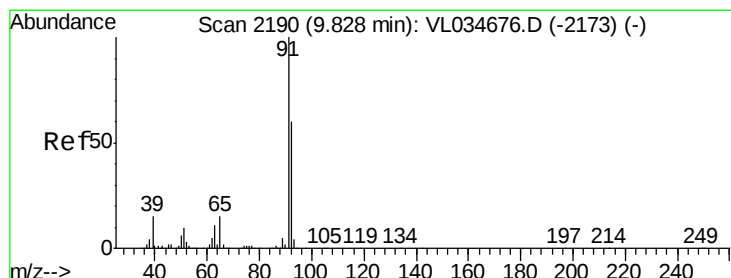
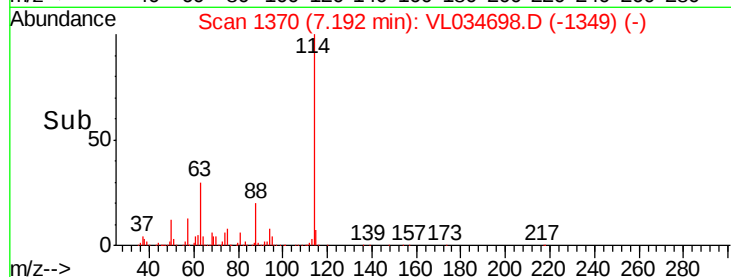
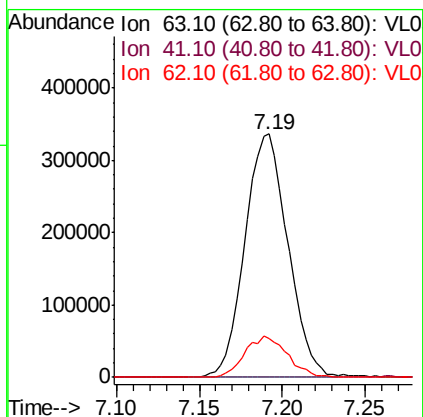
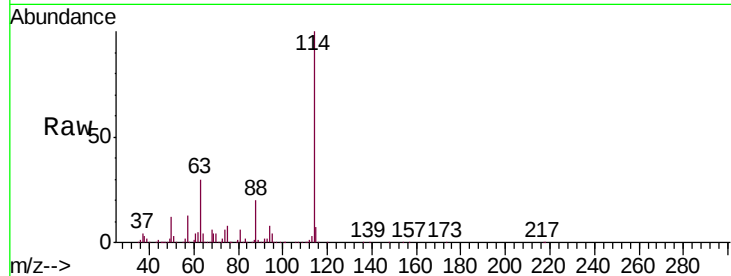




#39
 1,2-Dichloropropane
 Concen: 8.379 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.43 min
 Lab File: VL034698.D
 Acq: 26 Feb 2020 21:51

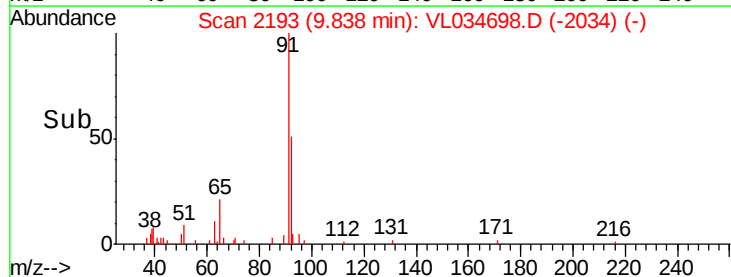
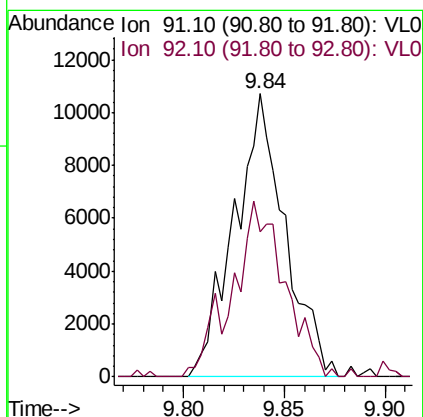
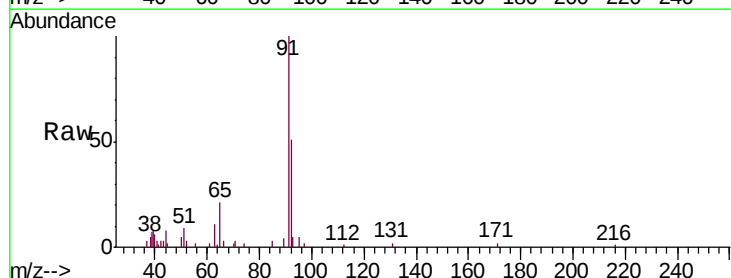
Instrument :
 MSVOA_L
 ClientSampleId :
 EP-104DL2

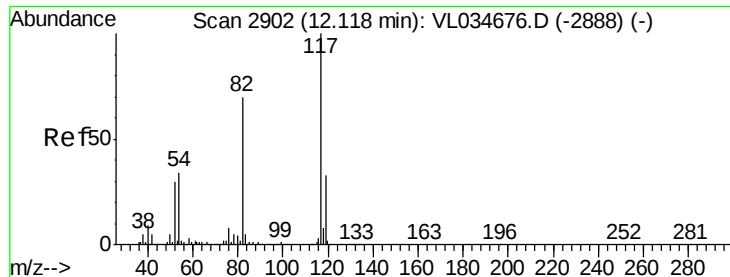
Tgt Ion: 63 Resp: 608395
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.2 90.4#
 62 16.1 56.3 84.5#



#53
 Toluene
 Concen: 0.096 ppbv
 RT: 9.84 min Scan# 2193
 Delta R.T. 0.01 min
 Lab File: VL034698.D
 Acq: 26 Feb 2020 21:51

Tgt Ion: 91 Resp: 18729
 Ion Ratio Lower Upper
 91 100
 92 64.8 48.5 72.7

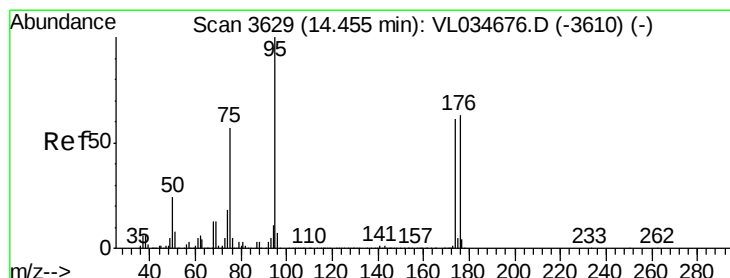
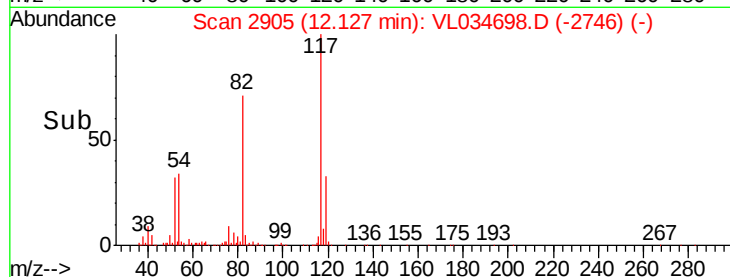
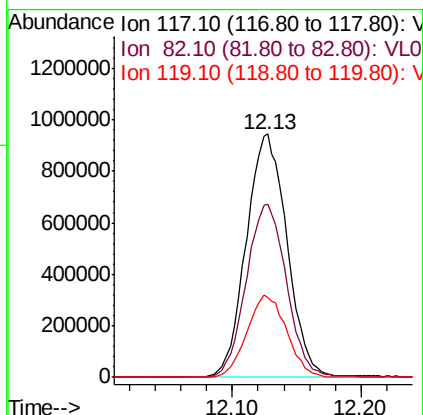
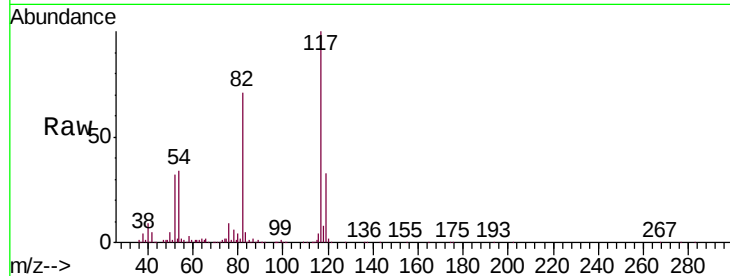




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL034698.D
Acq: 26 Feb 2020 21:51

Instrument :
MSVOA_L
ClientSampleId :
EP-104DL2

Tgt Ion: 117 Resp: 2075526
Ion Ratio Lower Upper
117 100
82 71.3 54.1 81.1
119 33.1 27.6 41.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.223 ppbv
RT: 14.46 min Scan# 3632
Delta R.T. 0.01 min
Lab File: VL034698.D
Acq: 26 Feb 2020 21:51

Tgt Ion: 95 Resp: 1739889
Ion Ratio Lower Upper
95 100
174 63.1 50.7 76.1
175 4.8 3.9 5.9

