

Data File : VL034750.D
Acq On : 28 Feb 2020 23:47
Operator : SY/AP
Sample : L1661-08DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-8-COUNCELOR-ROOMDL

Quant Time: Mar 02 04:37:58 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1033789	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2121611	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2083522	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1752065	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

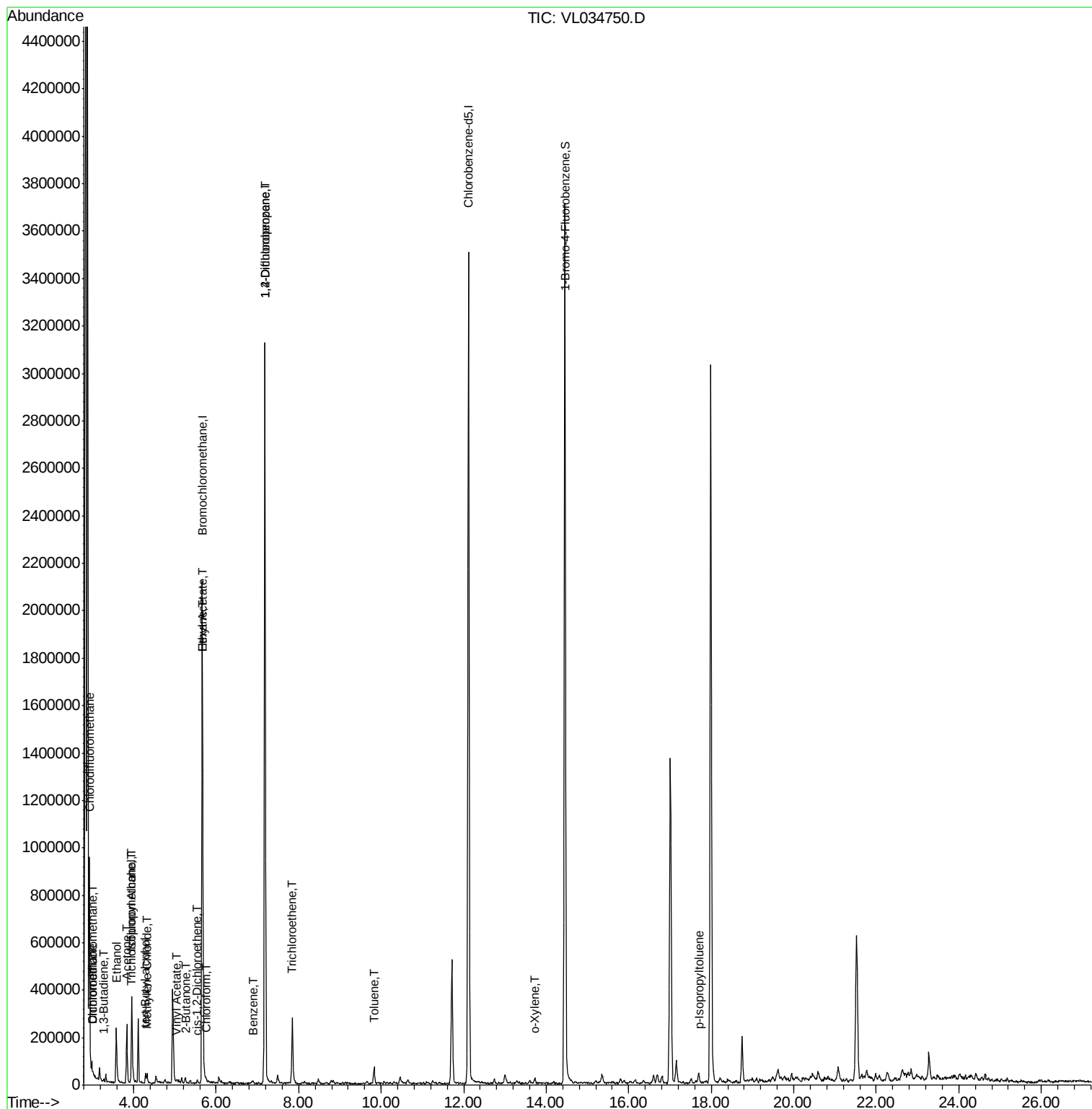
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	11598	0.071	ppbv #	85
3) Chlorodifluoromethane	2.93	51	492559	4.415	ppbv #	58
4) Chloromethane	3.01	50	1611	0.026	ppbv #	57
11) Trichlorofluoromethane	3.93	101	3126	0.022	ppbv #	57
13) Ethanol	3.58	45	228306	15.497	ppbv	96
15) Acetone	3.83	43	242947	2.062	ppbv	97
16) 1,3-Butadiene	3.28	39	1295	0.024	ppbv #	66
17) tert-Butyl alcohol	4.28	59	12306	0.136	ppbv #	35
19) Isopropyl Alcohol	3.95	45	392282	5.591	ppbv	100
20) Methylene Chloride	4.32	84	8206	0.187	ppbv #	78
23) Vinyl Acetate	5.05	43	5223	0.033	ppbv #	67
25) Ethyl Acetate	5.68	43	5859	0.028	ppbv #	55
26) Hexane	5.68	57	3256	0.034	ppbv #	1
29) Chloroform	5.75	83	4766	0.031	ppbv #	80
31) cis-1,2-Dichloroethene	5.54	61	4103	0.043	ppbv #	50
34) 2-Butanone	5.24	43	11954	0.090	ppbv #	44
36) Benzene	6.90	78	3775	0.021	ppbv #	59
38) Trichloroethene	7.85	130	41738	0.591	ppbv #	93
39) 1,2-Dichloropropane	7.18	63	594526	8.155	ppbv #	24
53) Toluene	9.83	91	40019	0.205	ppbv	93
60) o-Xylene	13.73	91	7205	0.033	ppbv #	35
69) p-Isopropyltoluene	17.70	119	11624	0.036	ppbv #	46

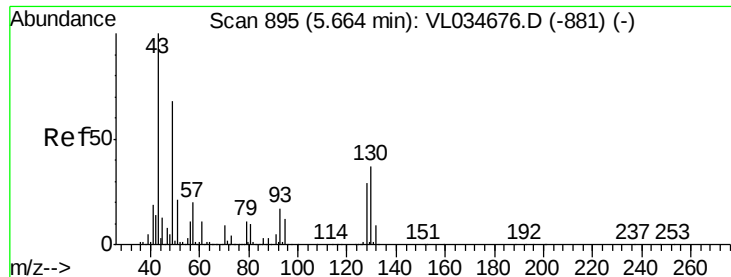
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034750.D

Acq: 28 Feb 2020 23:47

Instrument :

MSVOA_L

ClientSampleId :

SG-8-COUNCELOR-ROOMDL

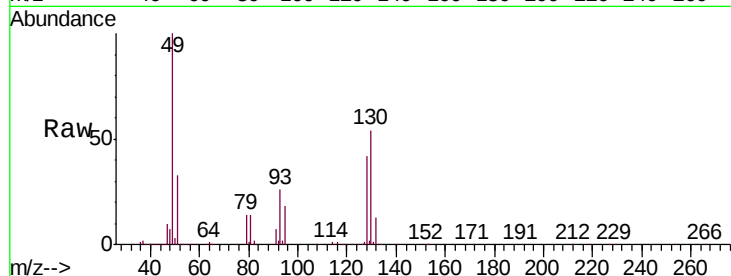
Tgt Ion: 49 Resp: 1033789

Ion Ratio Lower Upper

49 100

128 43.0 21.6 65.0

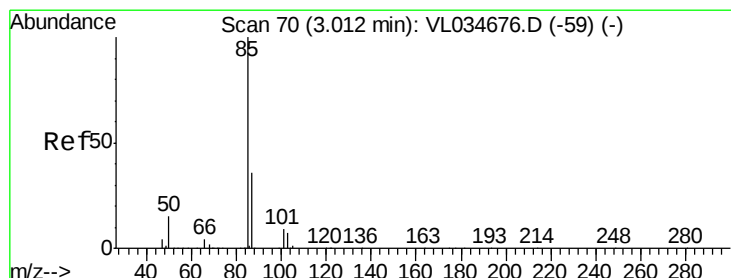
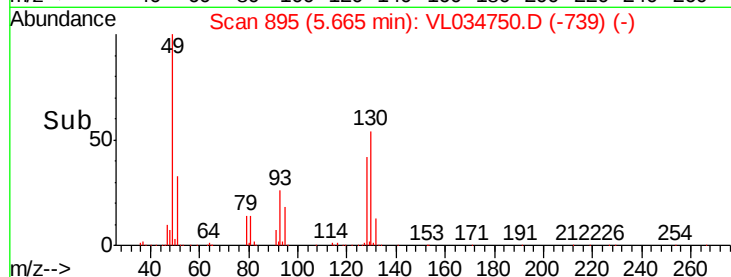
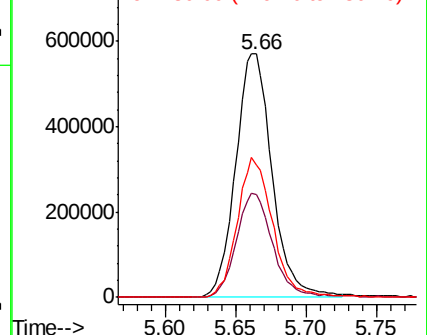
130 55.9 27.7 83.1



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



#2

Dichlorodifluoromethane

Concen: 0.071 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034750.D

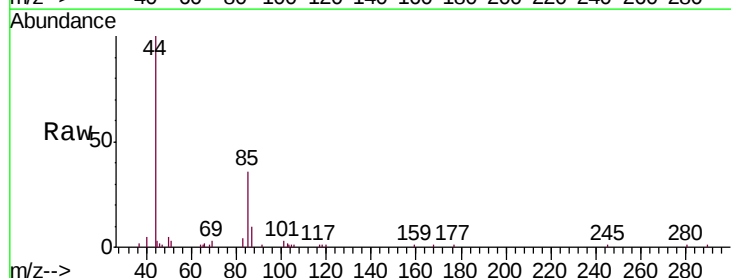
Acq: 28 Feb 2020 23:47

Tgt Ion: 85 Resp: 11598

Ion Ratio Lower Upper

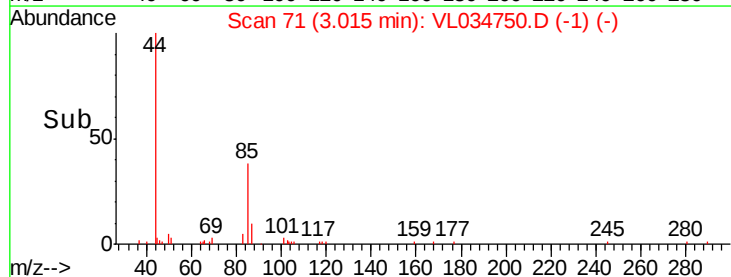
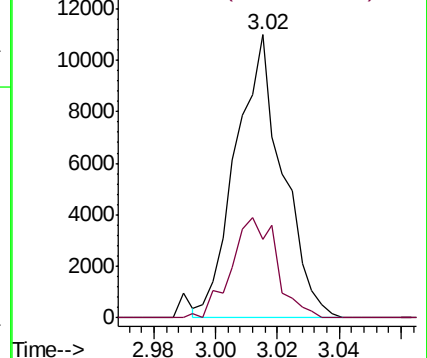
85 100

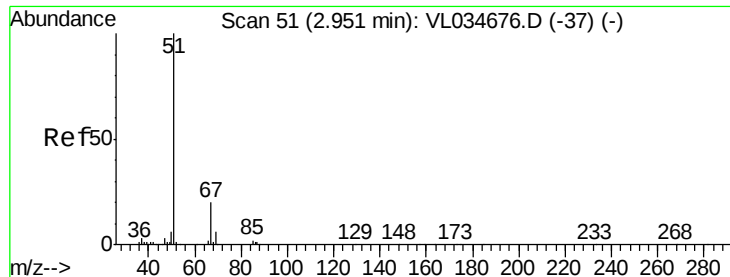
87 27.8 29.2 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

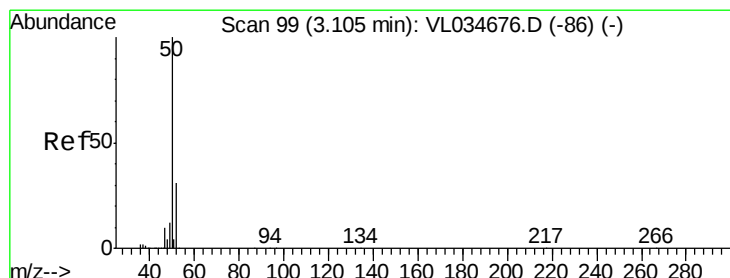
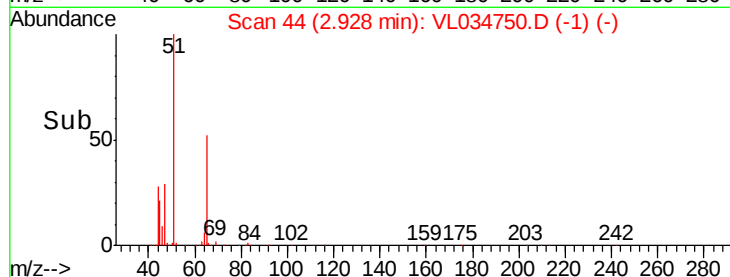
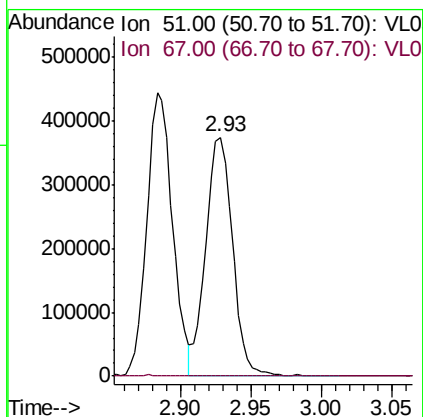
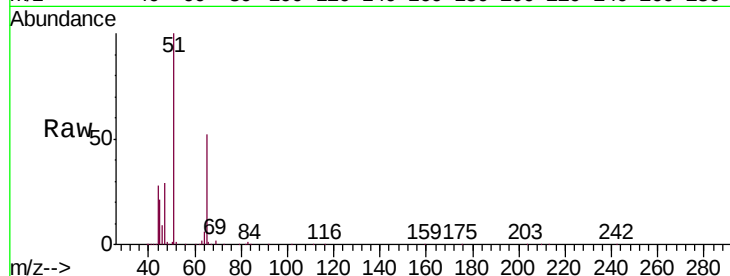




#3
 Chlorodifluoromethane
 Concen: 4.415 ppbv
 RT: 2.93 min Scan# 44
 Delta R.T. -0.02 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

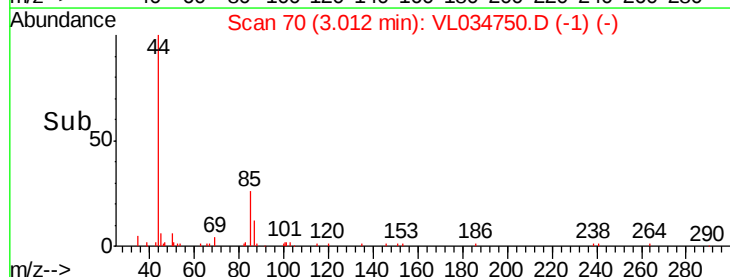
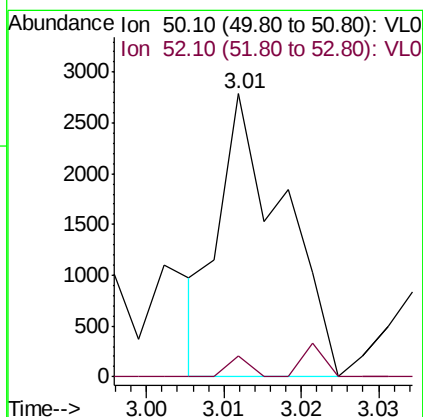
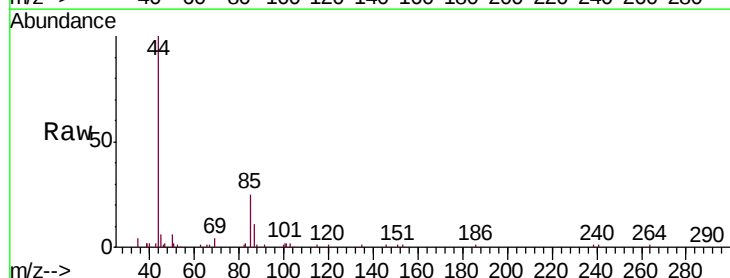
Instrument :
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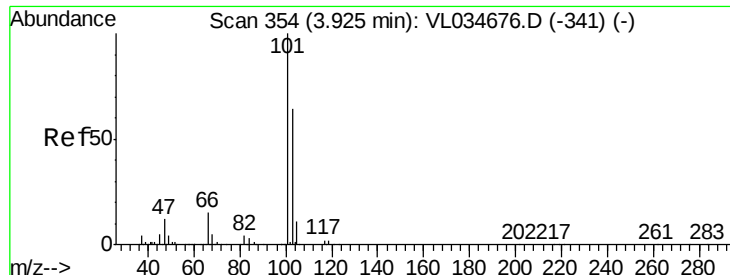
Tgt Ion: 51 Resp: 492559
 Ion Ratio Lower Upper
 51 100
 67 0.2 15.5 23.3#



#4
 Chloromethane
 Concen: 0.026 ppbv
 RT: 3.01 min Scan# 70
 Delta R.T. -0.09 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

Tgt Ion: 50 Resp: 1611
 Ion Ratio Lower Upper
 50 100
 52 7.5 25.0 37.4#

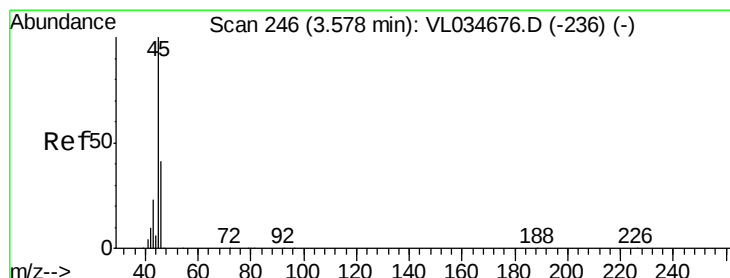
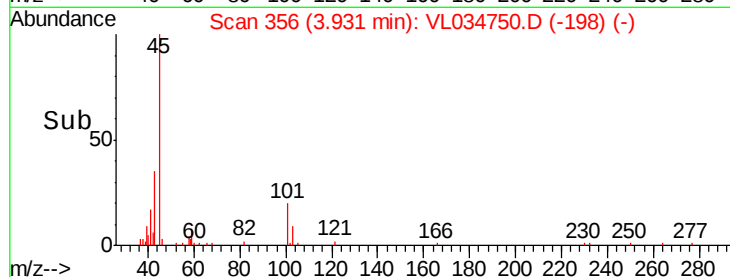
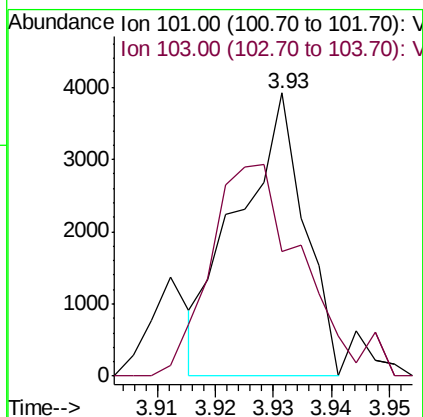
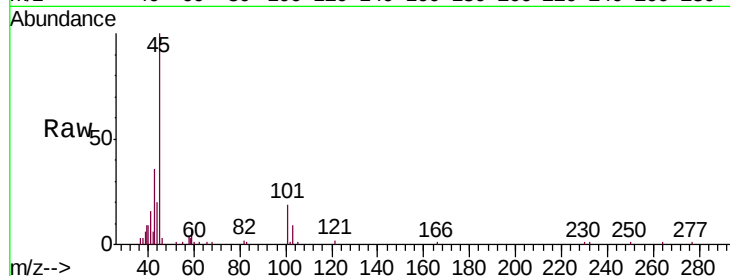




#11
 Trichlorofluoromethane
 Concen: 0.022 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.01 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

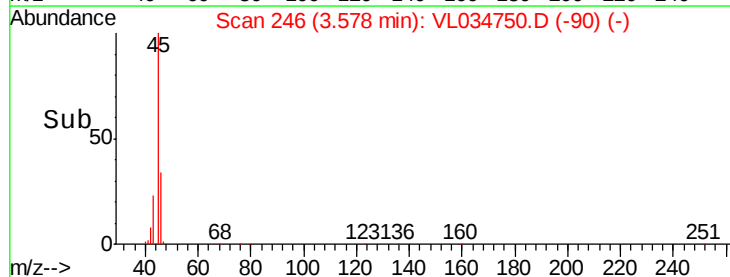
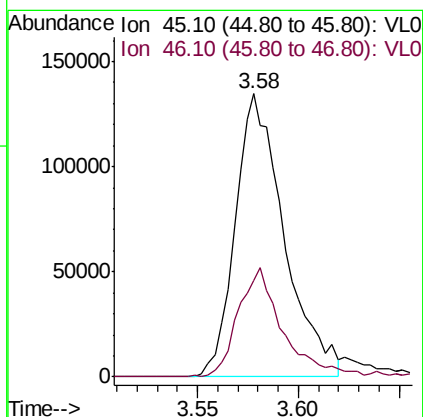
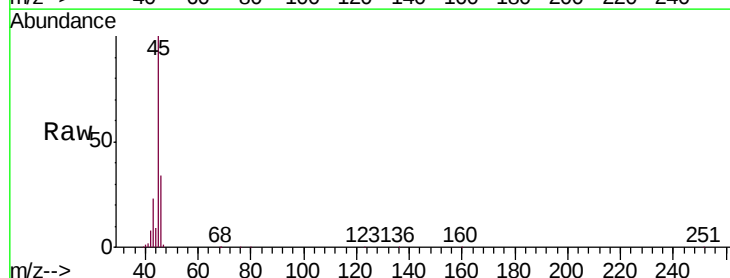
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-8-COUNCELOR-ROOMDL

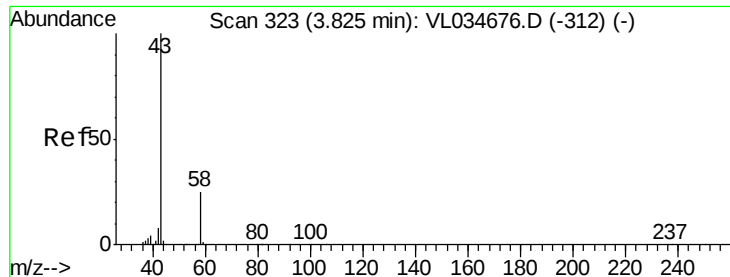
Tgt Ion: 101 Resp: 3126
 Ion Ratio Lower Upper
 101 100
 103 30.3 51.2 76.8#



#13
 Ethanol
 Concen: 15.497 ppbv
 RT: 3.58 min Scan# 246
 Delta R.T. 0.00 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

Tgt Ion: 45 Resp: 228306
 Ion Ratio Lower Upper
 45 100
 46 35.8 15.4 61.4





#15

Acetone

Concen: 2.062 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034750.D

Acq: 28 Feb 2020 23:47

Instrument :

MSVOA_L

ClientSampleId :

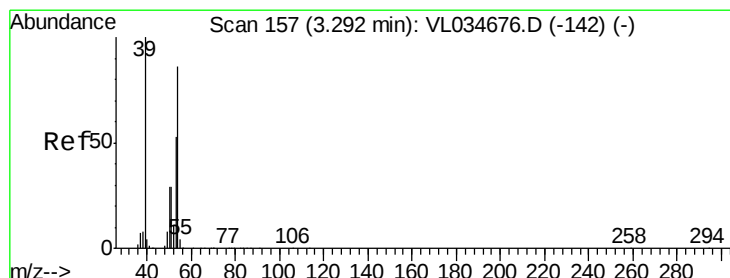
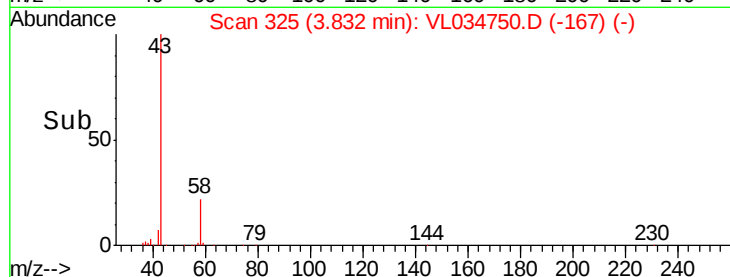
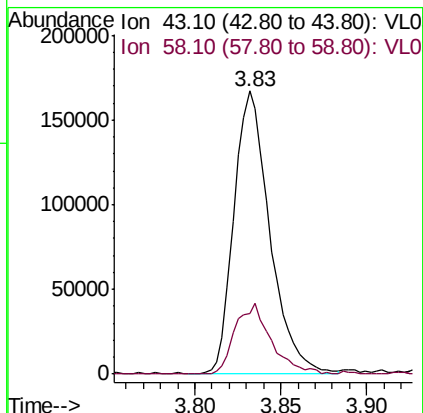
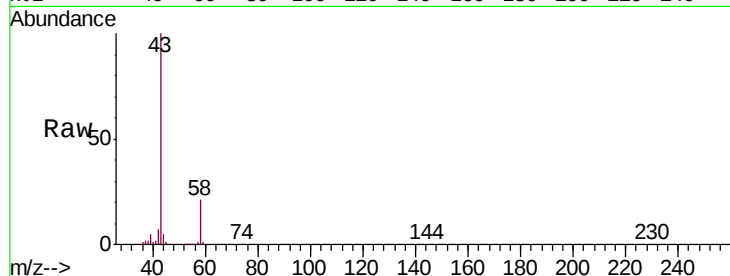
SG-8-COUNCELOR-ROOMDL

Tgt Ion: 43 Resp: 242947

Ion Ratio Lower Upper

43 100

58 25.2 21.4 32.0



#16

1,3-Butadiene

Concen: 0.024 ppbv

RT: 3.28 min Scan# 153

Delta R.T. -0.01 min

Lab File: VL034750.D

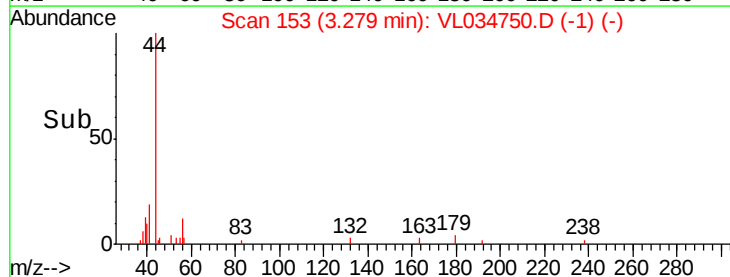
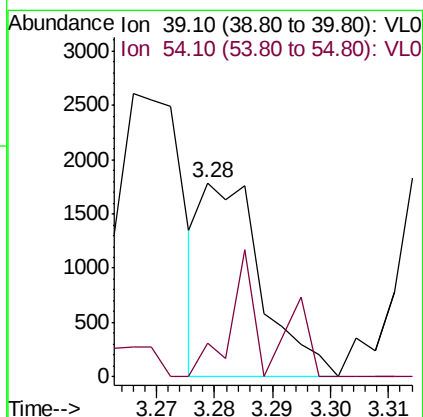
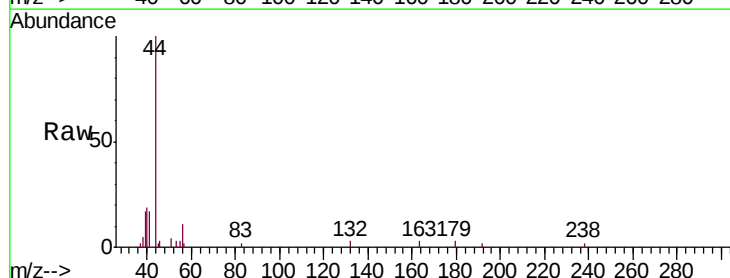
Acq: 28 Feb 2020 23:47

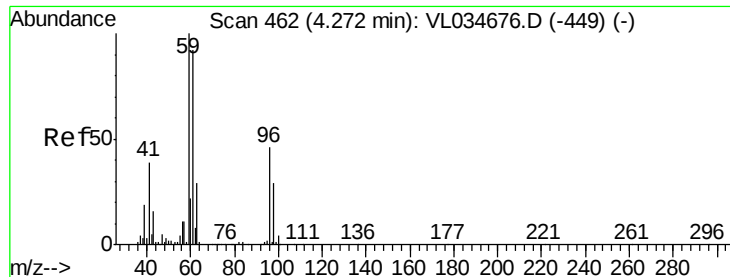
Tgt Ion: 39 Resp: 1295

Ion Ratio Lower Upper

39 100

54 53.1 67.0 100.6#





#17

tert-Butyl alcohol

Concen: 0.136 ppbv

RT: 4.28 min Scan# 464

Delta R.T. 0.01 min

Lab File: VL034750.D

Acq: 28 Feb 2020 23:47

Instrument :

MSVOA_L

ClientSampleId :

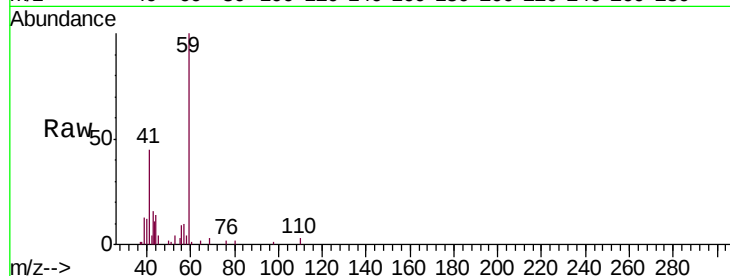
SG-8-COUNCELOR-ROOMDL

Tgt Ion: 59 Resp: 12306

Ion Ratio Lower Upper

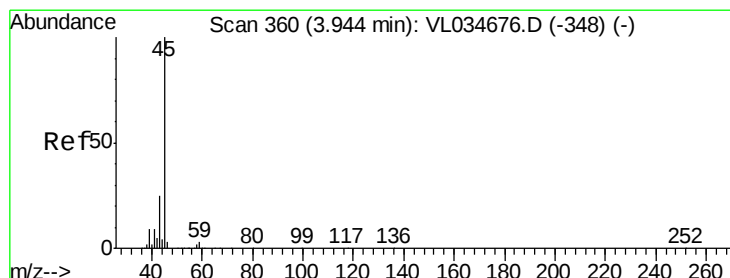
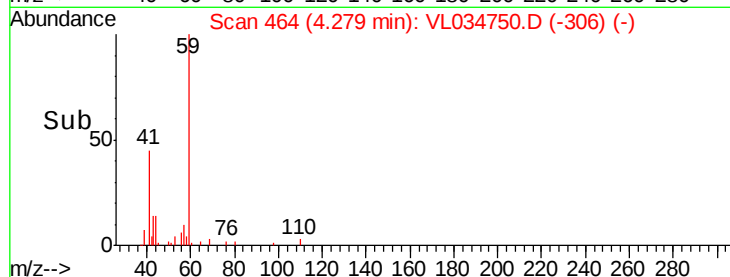
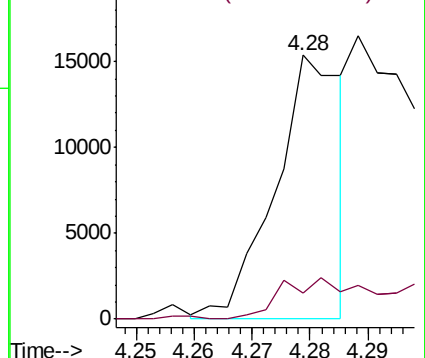
59 100

57 35.8 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 5.591 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034750.D

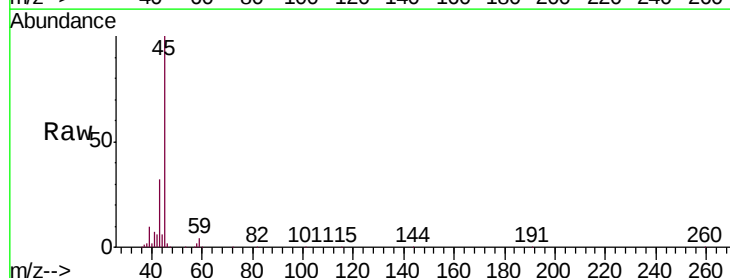
Acq: 28 Feb 2020 23:47

Tgt Ion: 45 Resp: 392282

Ion Ratio Lower Upper

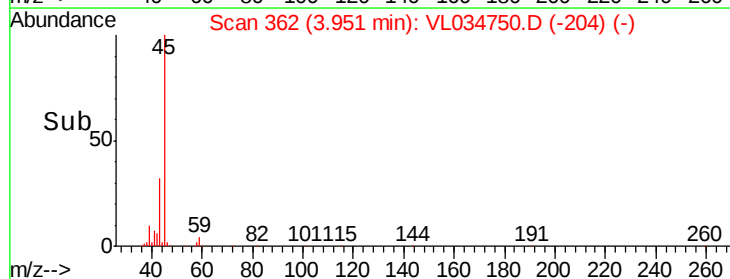
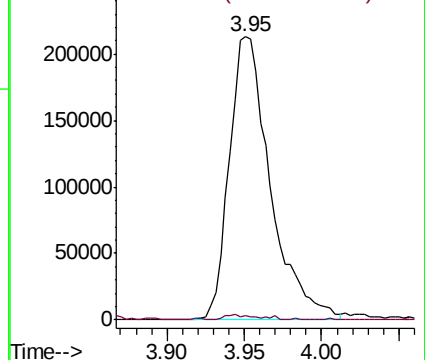
45 100

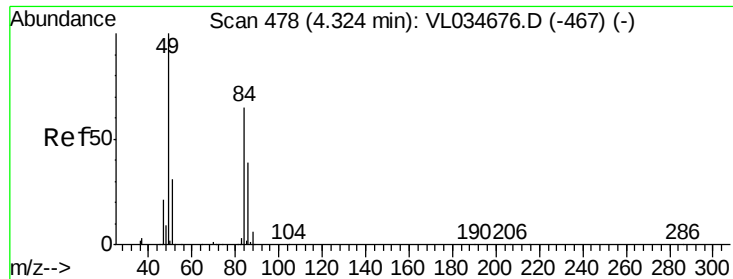
58 2.1 1.8 2.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

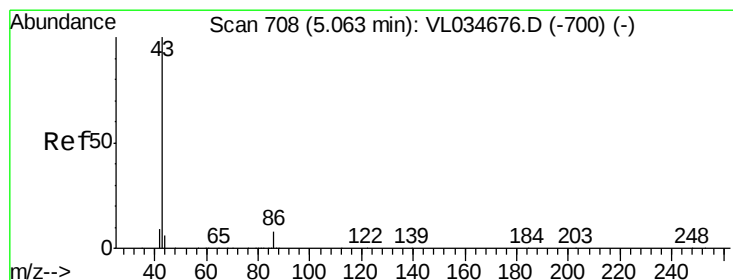
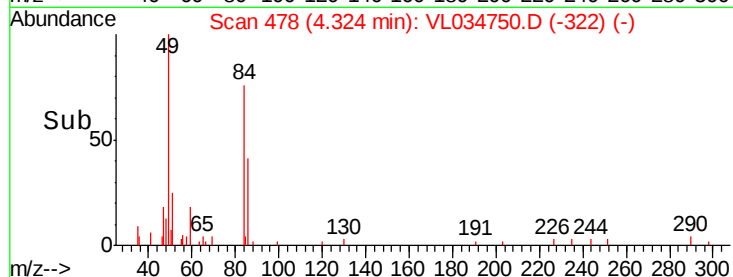
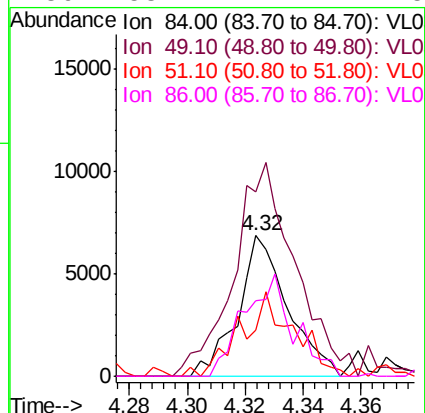
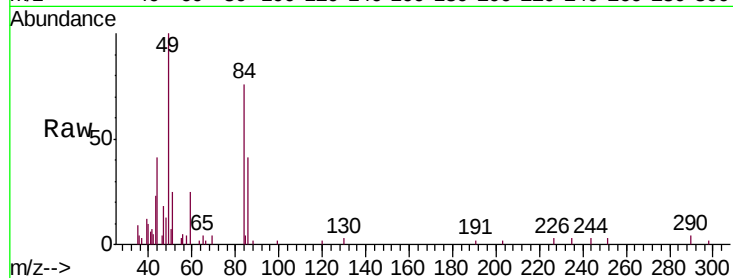




#20
Methylene Chloride
Concen: 0.187 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.00 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

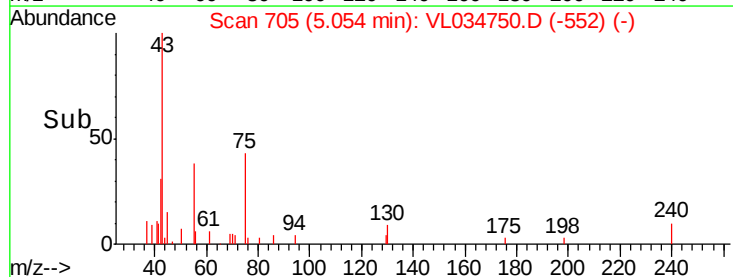
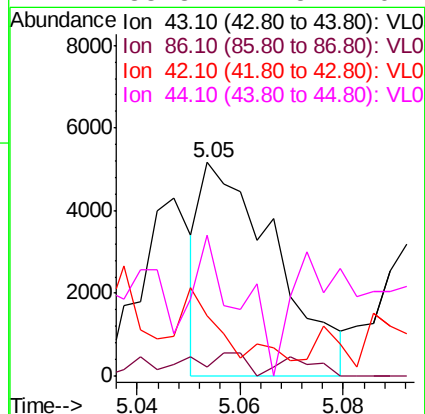
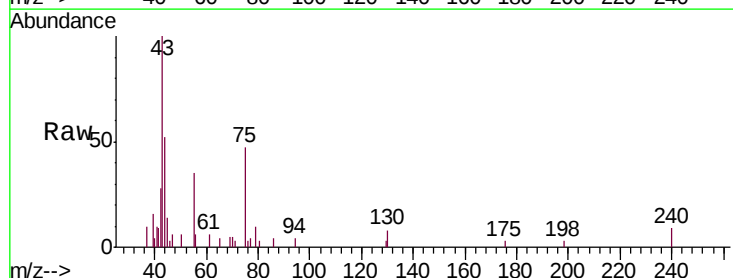
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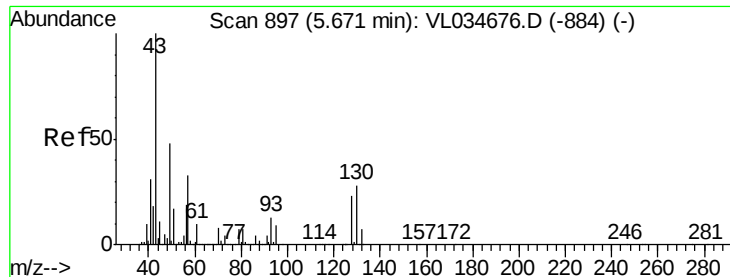
Tgt Ion:	84	Resp:	8206
Ion	Ratio	Lower	Upper
84	100		
49	120.6	122.8	184.2#
51	28.7	38.6	58.0#
86	53.4	47.7	71.5



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.01 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

Tgt Ion:	43	Resp:	5223
Ion	Ratio	Lower	Upper
43	100		
86	5.1	6.0	9.0#
42	16.5	8.0	12.0#
44	38.3	4.5	6.7#

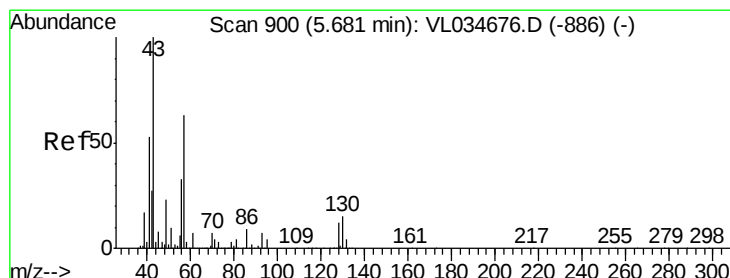
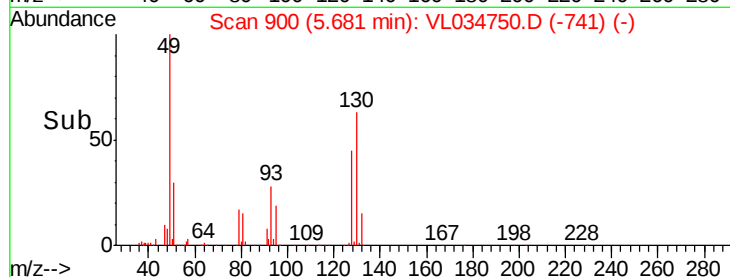
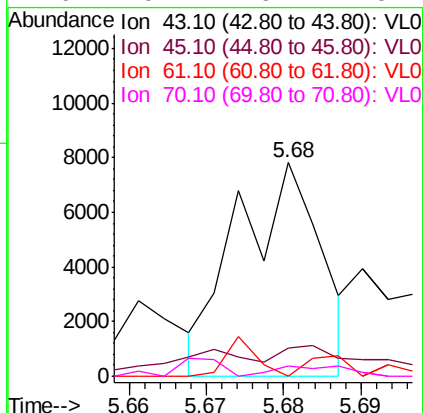
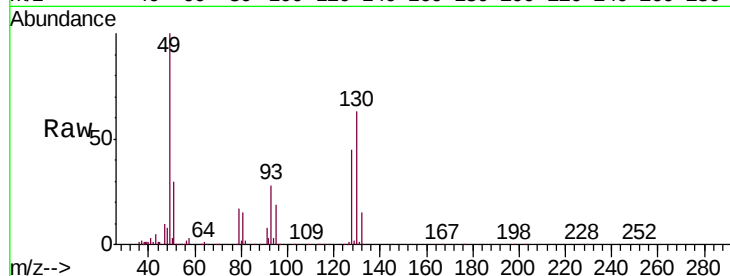




#25
Ethyl Acetate
Concen: 0.028 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

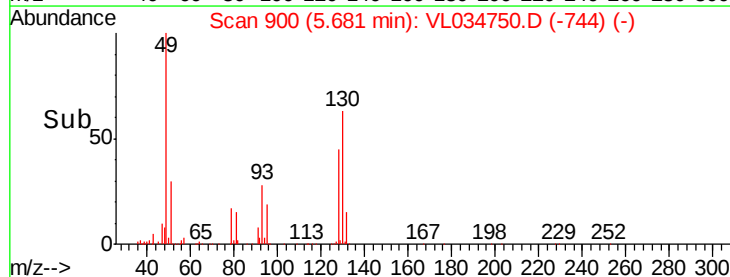
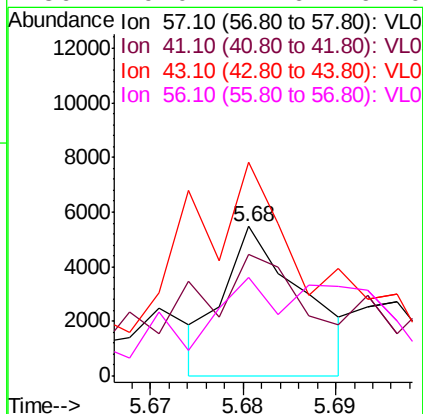
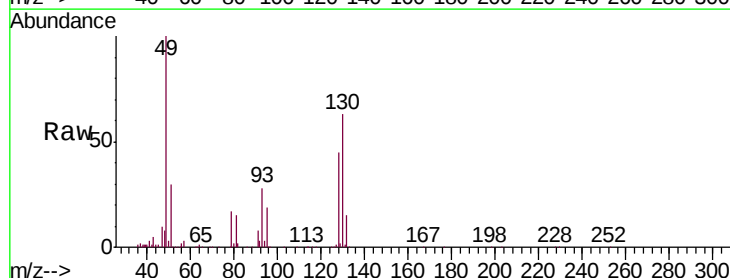
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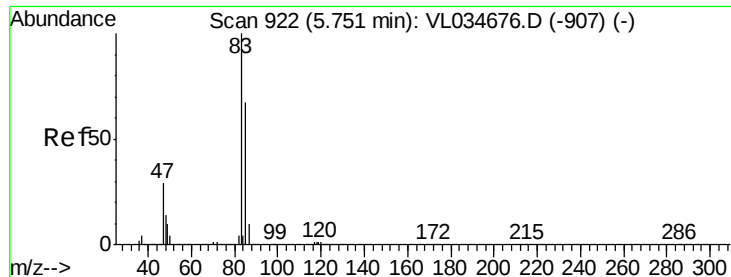
Tgt Ion:	43	Resp:	5859
Ion	Ratio	Lower	Upper
43	100		
45	47.7	8.2	12.4#
61	16.6	7.8	11.6#
70	9.2	6.1	9.1#



#26
Hexane
Concen: 0.034 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

Tgt Ion:	57	Resp:	3256
Ion	Ratio	Lower	Upper
57	100		
41	230.7	70.3	105.5#
43	314.9	177.0	265.4#
56	179.0	42.6	64.0#

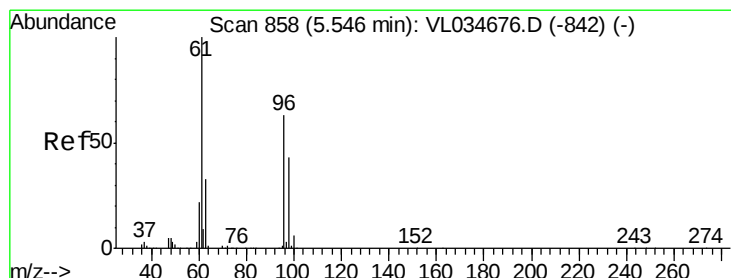
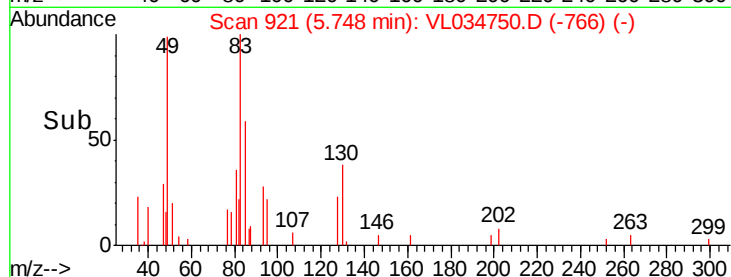
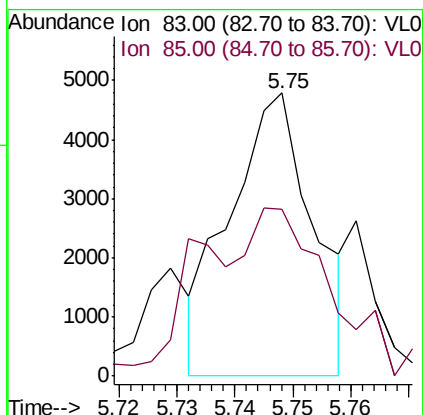
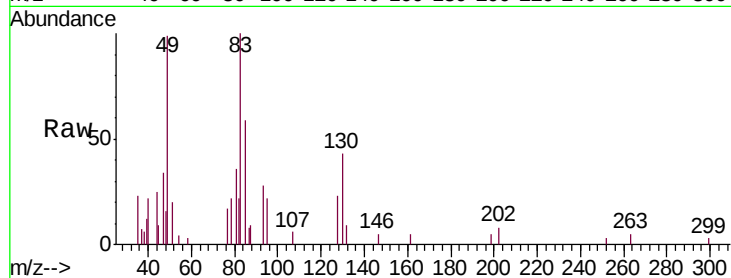




#29
Chloroform
Concen: 0.031 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

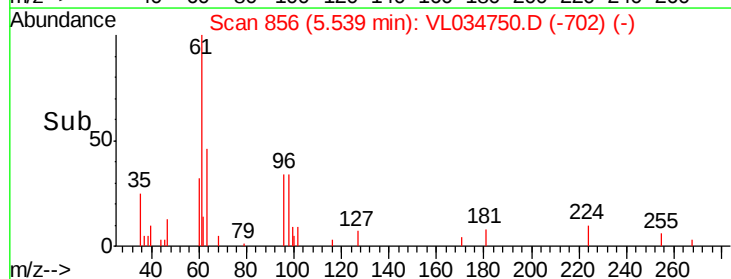
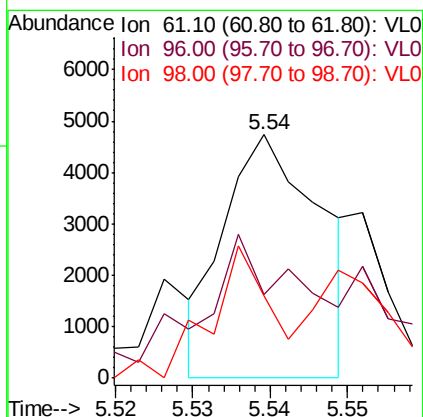
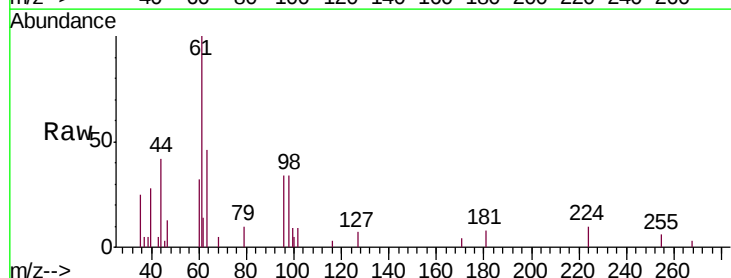
Instrument :
MSVOA_L
ClientSampleId :
SG-8-COUNCELOR-ROOMDL

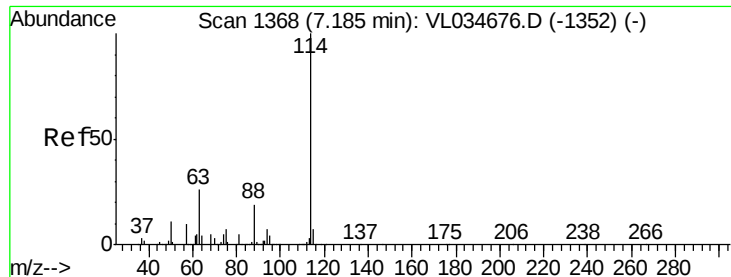
Tgt Ion: 83 Resp: 4766
Ion Ratio Lower Upper
83 100
85 51.2 53.9 80.9#



#31
cis-1,2-Dichloroethene
Concen: 0.043 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.01 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

Tgt Ion: 61 Resp: 4103
Ion Ratio Lower Upper
61 100
96 21.1 50.2 75.2#
98 14.5 34.3 51.5#

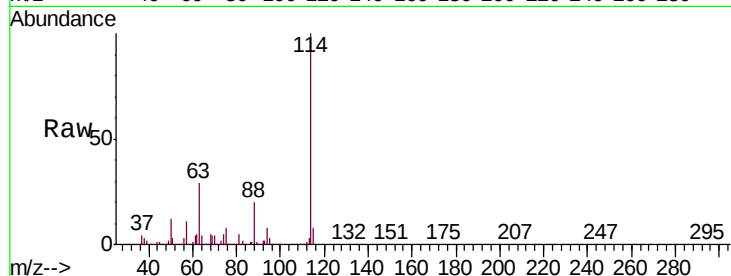




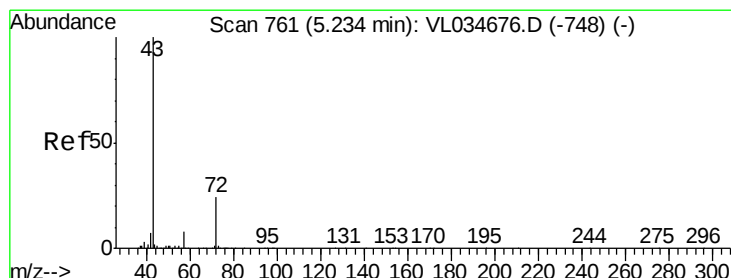
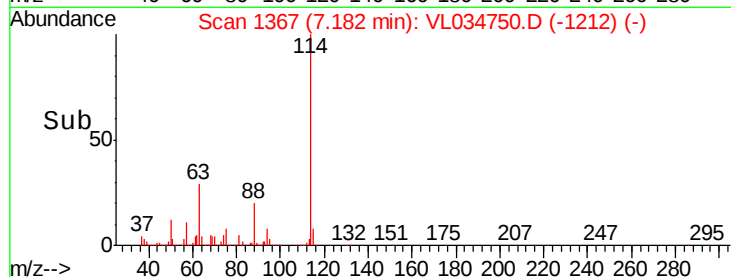
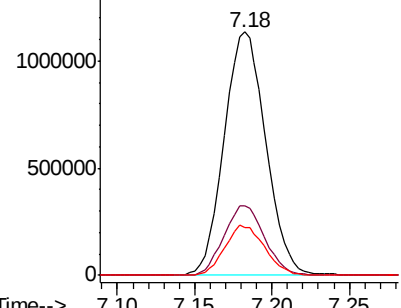
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-8-COUNCELOR-ROOMDL

Tgt Ion: 114 Resp: 2121611
 Ion Ratio Lower Upper
 114 100
 63 28.2 22.9 34.3
 88 19.9 15.8 23.6

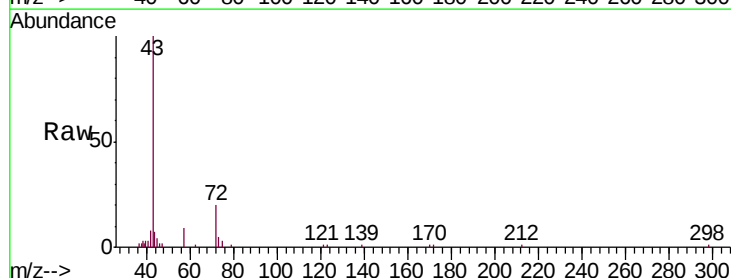


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

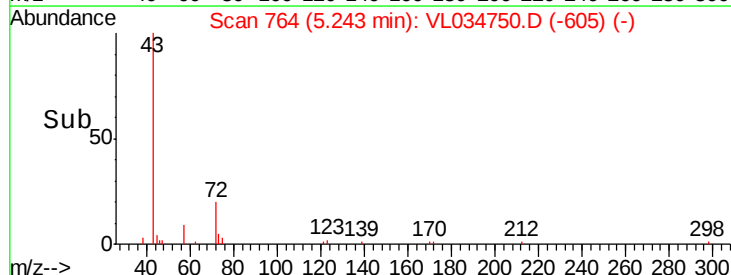
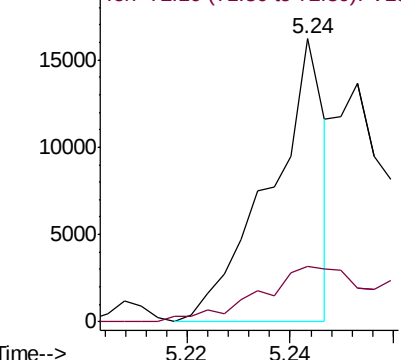


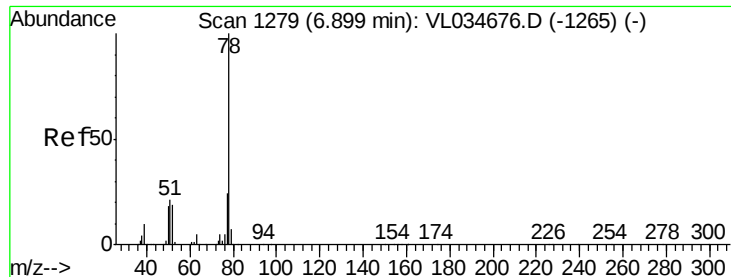
#34
 2-Butanone
 Concen: 0.090 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

Tgt Ion: 43 Resp: 11954
 Ion Ratio Lower Upper
 43 100
 72 49.5 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.021 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL034750.D

Acq: 28 Feb 2020 23:47

Instrument :

MSVOA_L

ClientSampleId :

SG-8-COUNCELOR-ROOMDL

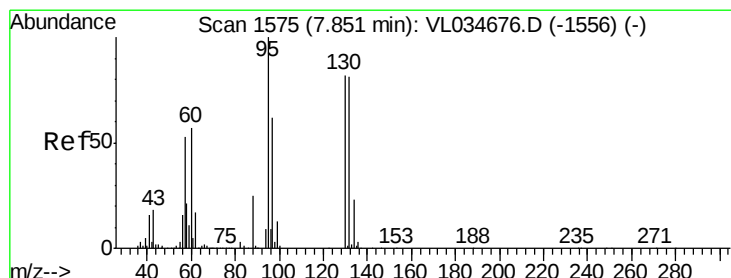
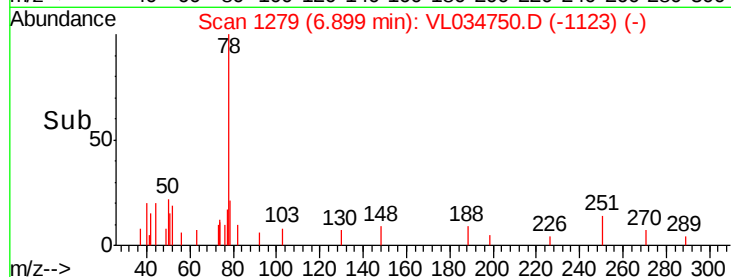
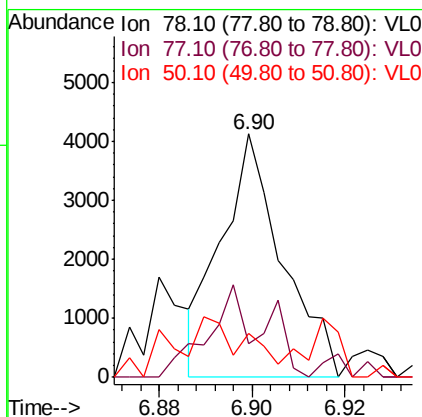
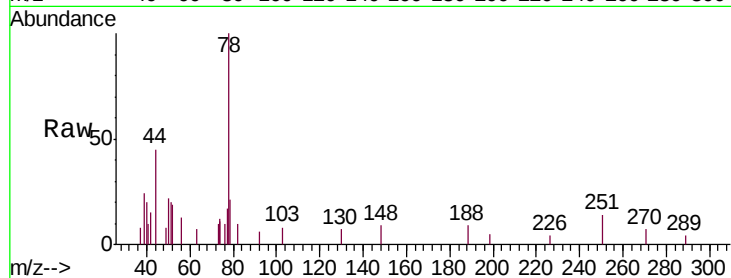
Tgt Ion: 78 Resp: 3775

Ion Ratio Lower Upper

78 100

77 4.3 19.5 29.3#

50 0.0 14.6 21.8#



#38

Trichloroethene

Concen: 0.591 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL034750.D

Acq: 28 Feb 2020 23:47

Tgt Ion: 130 Resp: 41738

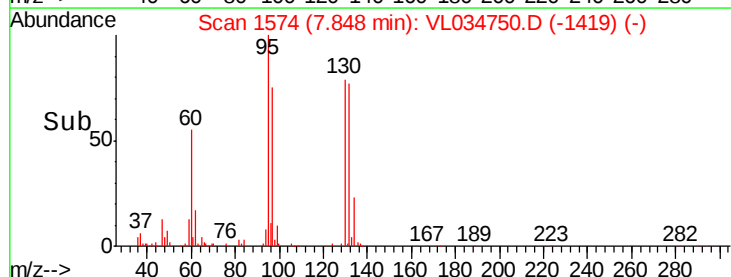
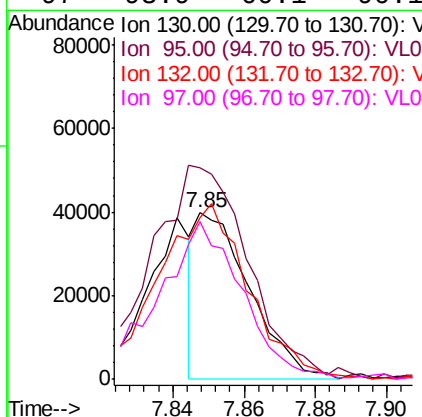
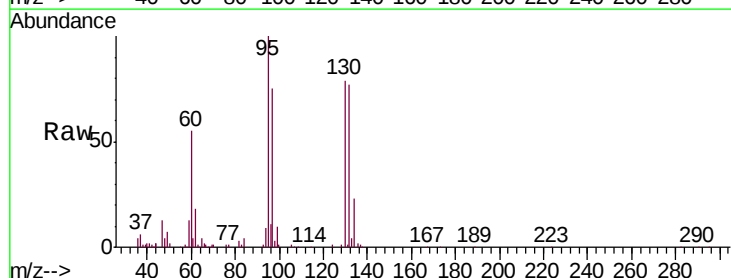
Ion Ratio Lower Upper

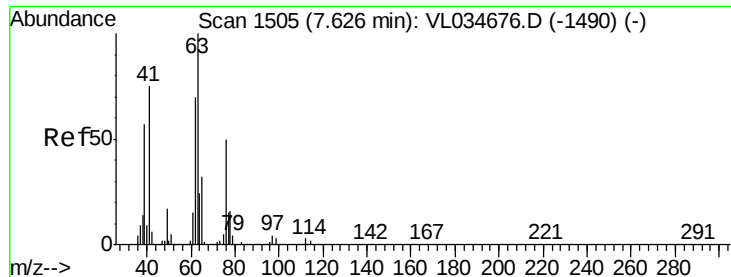
130 100

95 120.5 97.1 145.7

132 95.1 78.3 117.5

97 93.9 60.1 90.1#

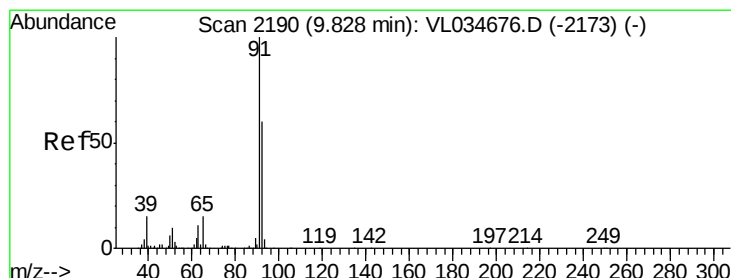
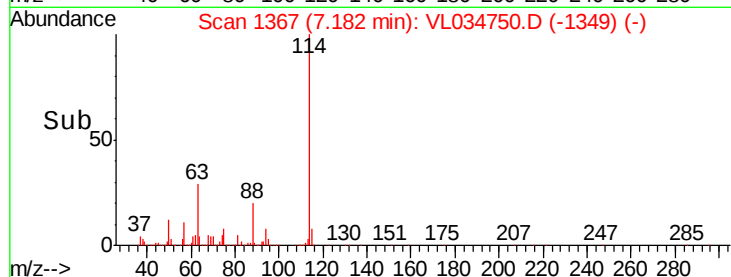
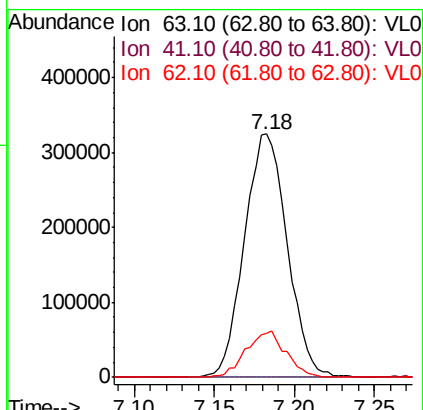
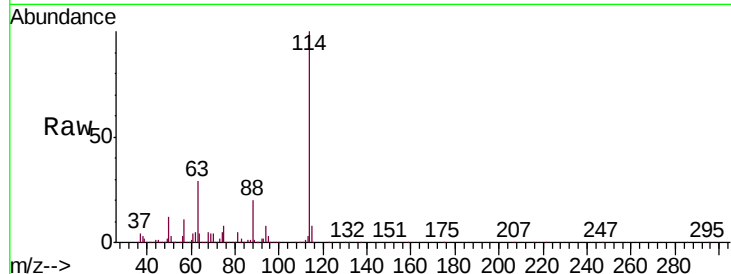




#39
 1,2-Dichloropropane
 Concen: 8.155 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.44 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

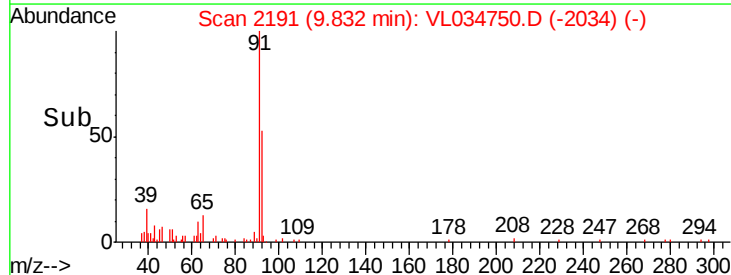
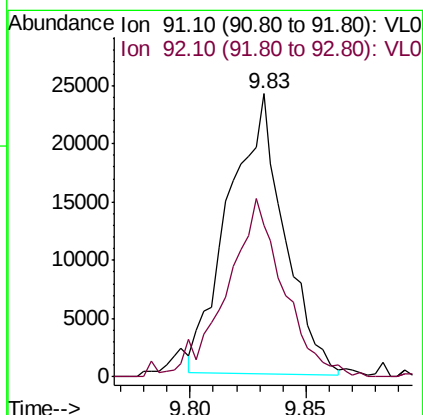
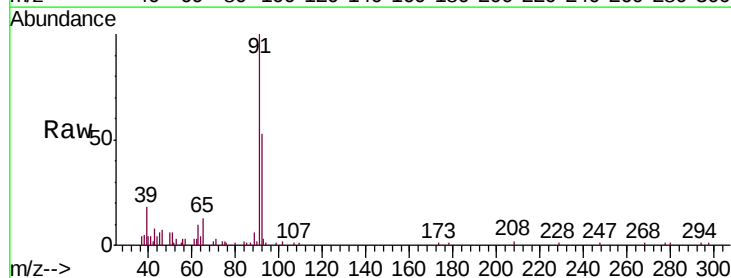
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-8-COUNCELOR-ROOMDL

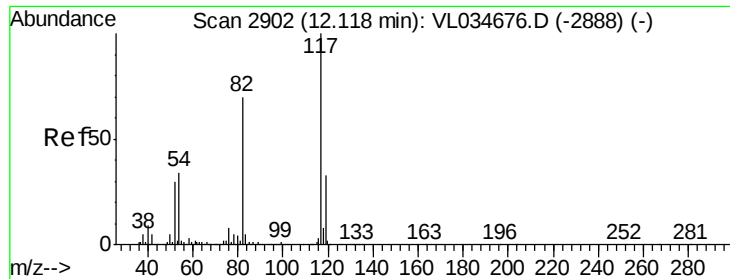
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.2	90.4#
62	18.0	56.3	84.5#



#53
 Toluene
 Concen: 0.205 ppbv
 RT: 9.83 min Scan# 2191
 Delta R.T. 0.00 min
 Lab File: VL034750.D
 Acq: 28 Feb 2020 23:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	66.0	48.5	72.7

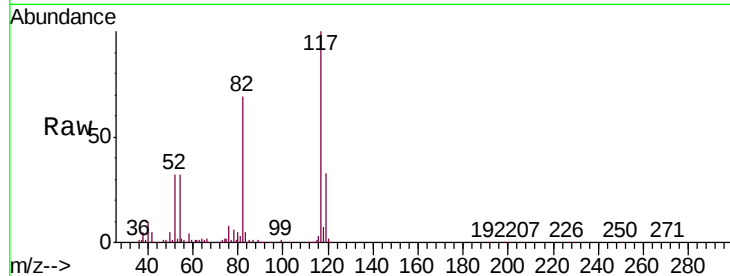




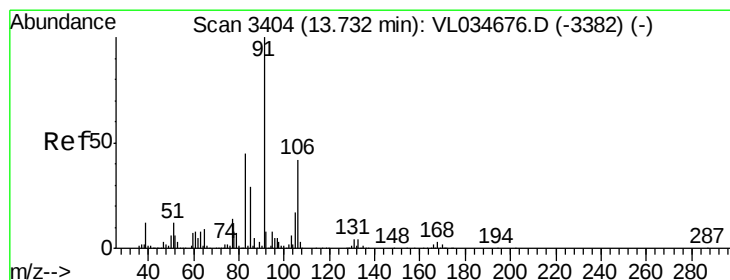
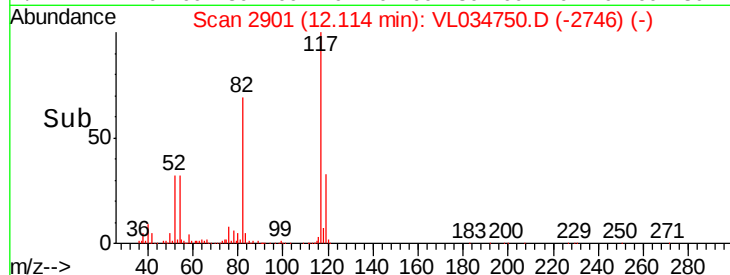
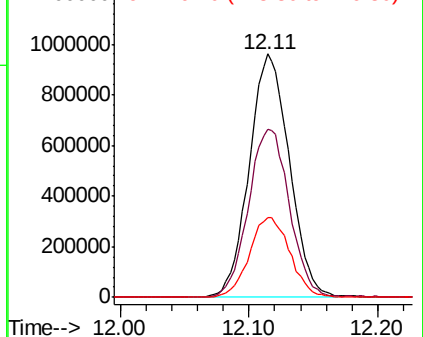
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

Instrument :
MSVOA_L
ClientSampleId :
SG-8-COUNCELOR-ROOMDL

Tgt Ion:117 Resp: 2083522
Ion Ratio Lower Upper
117 100
82 71.0 54.1 81.1
119 33.4 27.6 41.4

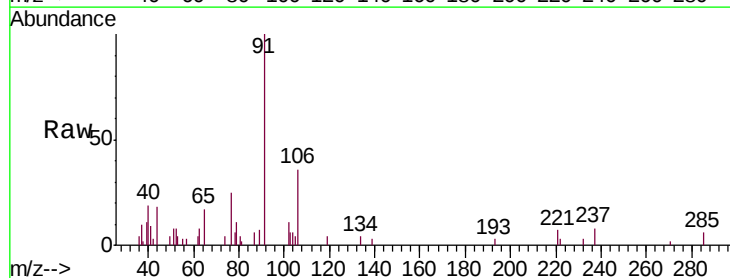


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

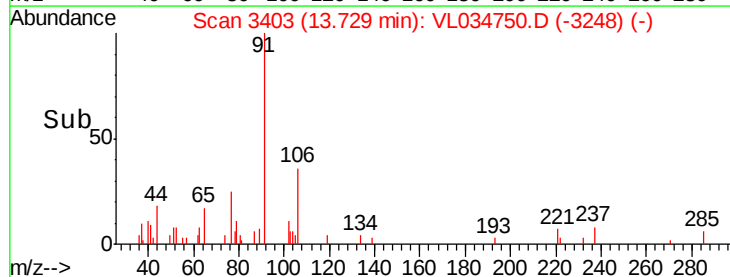
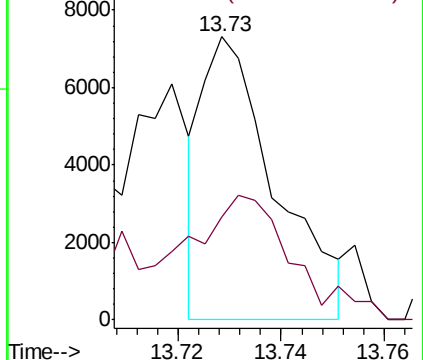


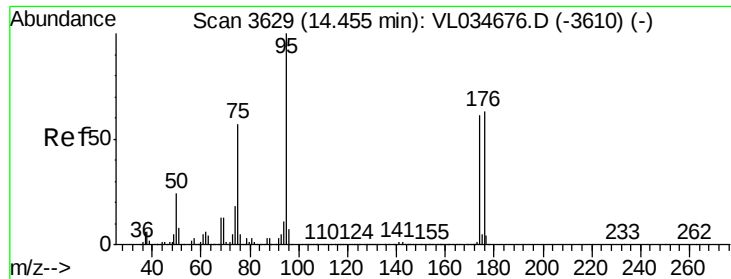
#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. -0.00 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

Tgt Ion: 91 Resp: 7205
Ion Ratio Lower Upper
91 100
106 85.3 21.9 65.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

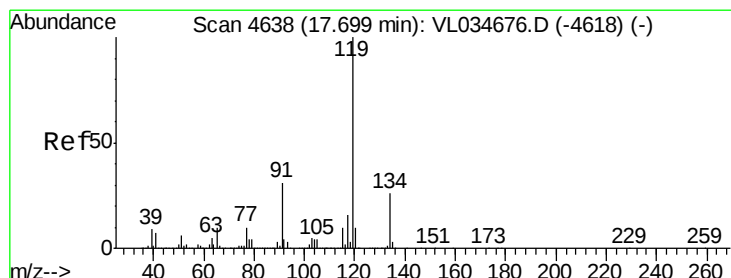
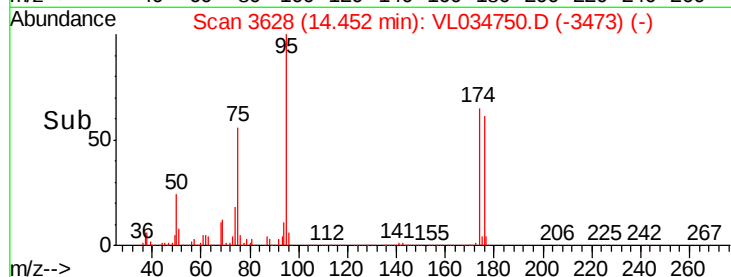
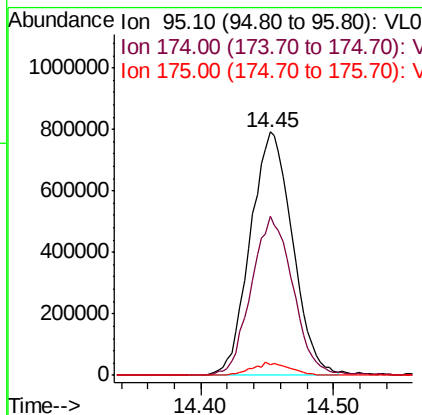
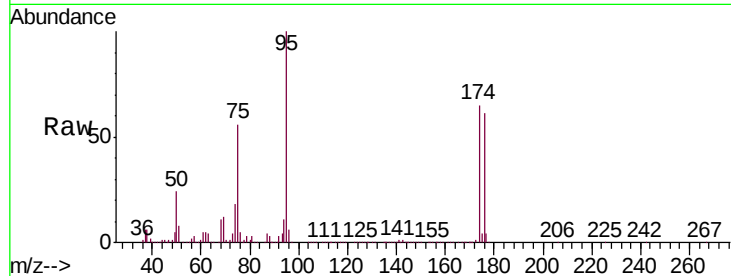




#68
1-Bromo-4-Fluorobenzene
Concen: 10.256 ppbv
RT: 14.45 min Scan# 3628
Delta R.T. -0.00 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

Instrument :
MSVOA_L
ClientSampleId :
SG-8-COUNCELOR-ROOMDL

Tgt Ion: 95 Resp: 1752065
Ion Ratio Lower Upper
95 100
174 64.6 50.7 76.1
175 4.8 3.9 5.9



#69
p-Isopropyltoluene
Concen: 0.036 ppbv
RT: 17.70 min Scan# 4638
Delta R.T. 0.00 min
Lab File: VL034750.D
Acq: 28 Feb 2020 23:47

Tgt Ion: 119 Resp: 11624
Ion Ratio Lower Upper
119 100
134 0.0 20.6 31.0#
91 0.0 25.3 37.9#

