

Data File : VL034725.D
Acq On : 28 Feb 2020 1:55
Operator : SY/AP
Sample : L1661-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIADL

Quant Time: Feb 28 03:30:19 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	1145149	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2378789	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2356110	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1932918	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	31092	0.172	ppbv	100
3) Chlorodifluoromethane	2.93	51	853389	6.905	ppbv #	60
4) Chloromethane	3.11	50	1479	0.021	ppbv #	48
9) Propene	2.99	41	4849	0.094	ppbv	95
13) Ethanol	3.58	45	252161	15.452	ppbv	97
15) Acetone	3.84	43	195738	1.500	ppbv	96
17) tert-Butyl alcohol	4.29	59	32298	0.323	ppbv #	85
19) Isopropyl Alcohol	3.95	45	338685	4.357	ppbv	100
20) Methylene Chloride	4.33	84	3370	0.069	ppbv #	82
25) Ethyl Acetate	5.68	43	4837	0.021	ppbv #	41
26) Hexane	5.68	57	7526	0.071	ppbv #	66
31) cis-1,2-Dichloroethene	5.55	61	6793	0.065	ppbv	98
34) 2-Butanone	5.25	43	22223	0.148	ppbv	95
36) Benzene	6.90	78	4305	0.021	ppbv #	91
38) Trichloroethene	7.85	130	7786	0.098	ppbv #	11
39) 1,2-Dichloropropane	7.19	63	662177	8.101	ppbv #	23
53) Toluene	9.83	91	34790	0.159	ppbv #	26
59) m/p-Xylene	13.03	91	7118	0.029	ppbv #	32
60) o-Xylene	13.73	91	8687	0.035	ppbv #	32
69) p-Isopropyltoluene	17.70	119	7901	0.021	ppbv #	46
74) 1,2,4-Trimethylbenzene	16.80	105	6530	0.022	ppbv #	52

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

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Sample : L1661-03DL 10X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

SG-3-CAFETERIADL

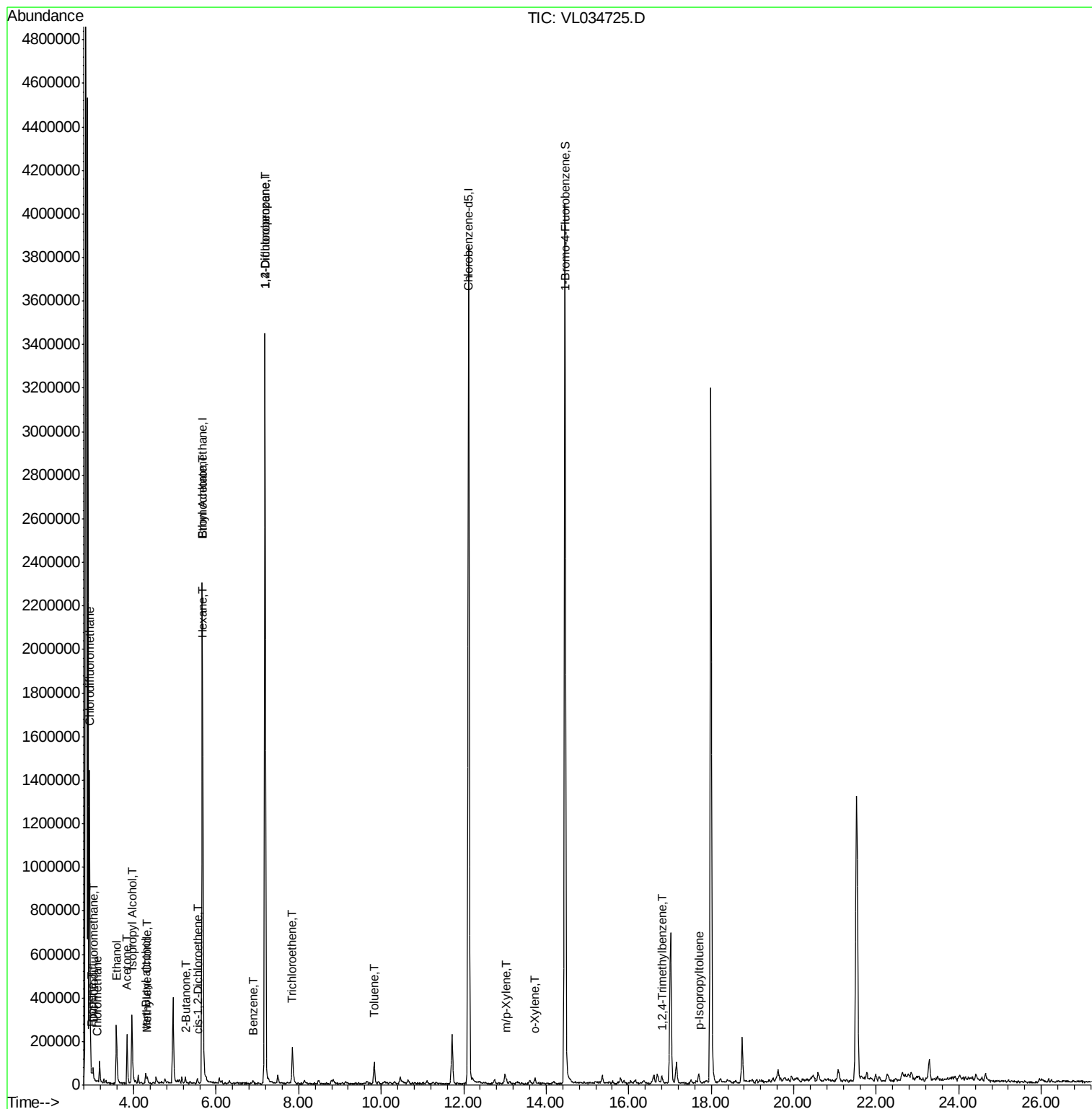
Quant Time: Feb 28 03:30:19 2020

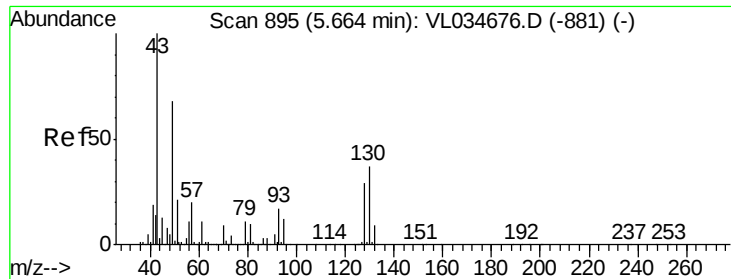
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

SG-3-CAFETERIADL

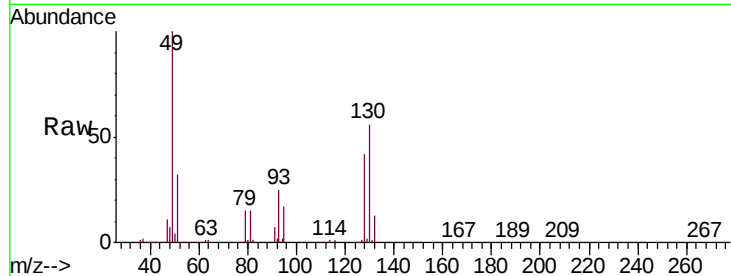
Tgt Ion: 49 Resp: 1145149

Ion Ratio Lower Upper

49 100

128 43.3 21.6 65.0

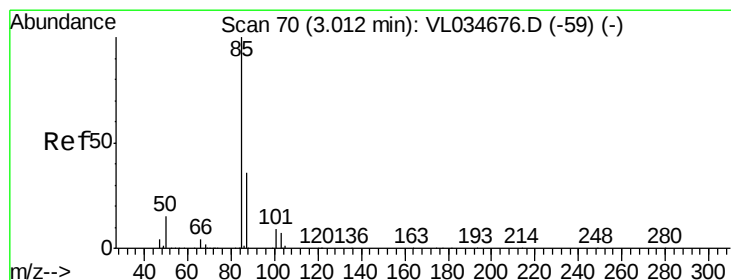
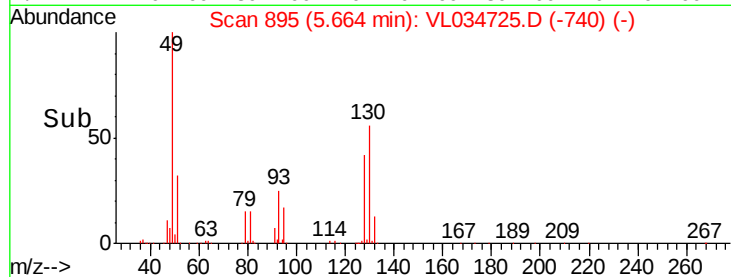
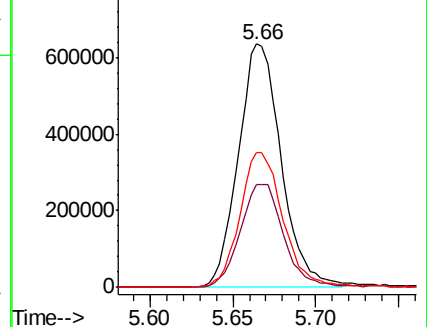
130 56.3 27.7 83.1



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: 0.172 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034725.D

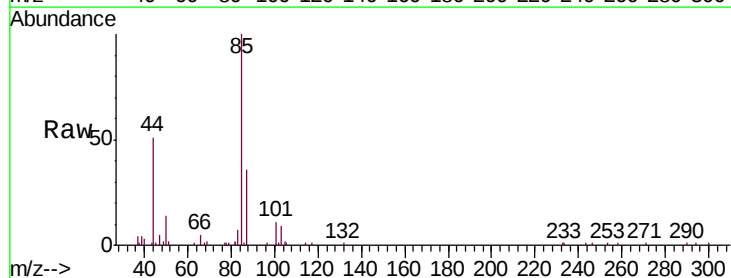
Acq: 28 Feb 2020 1:55

Tgt Ion: 85 Resp: 31092

Ion Ratio Lower Upper

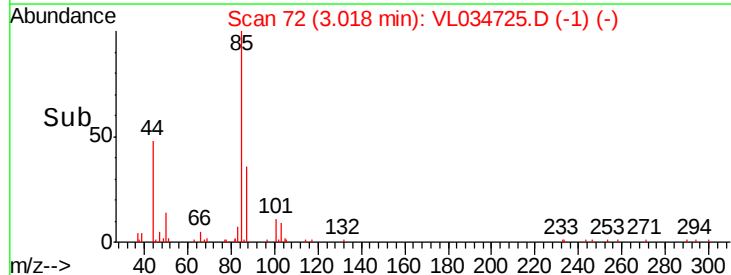
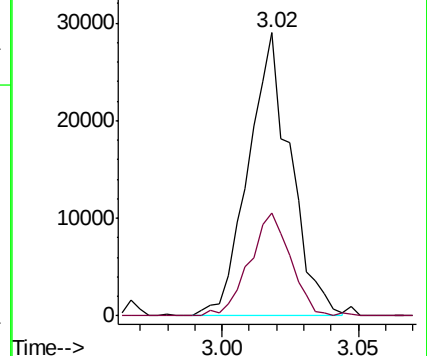
85 100

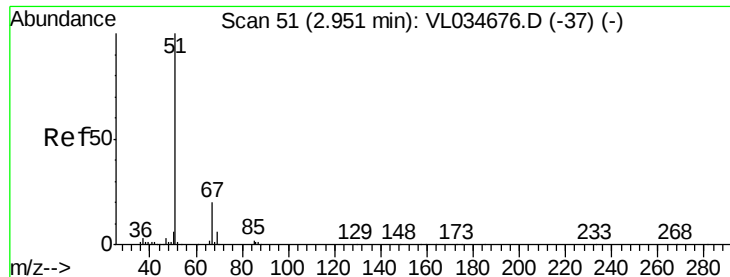
87 36.4 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 6.905 ppbv

RT: 2.93 min Scan# 45

Delta R.T. -0.02 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

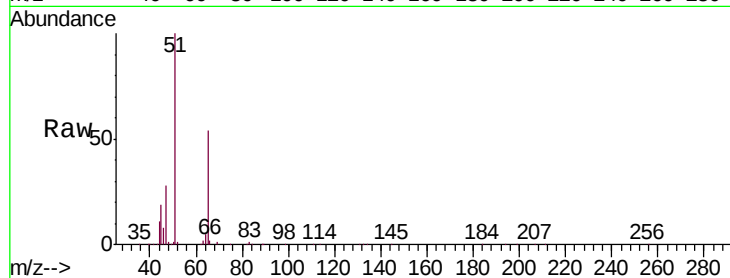
SG-3-CAFETERIADL

Tgt Ion: 51 Resp: 853389

Ion Ratio Lower Upper

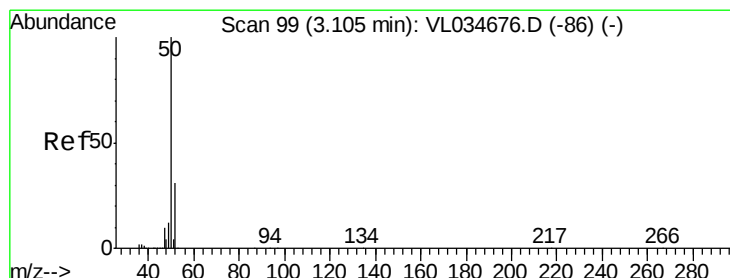
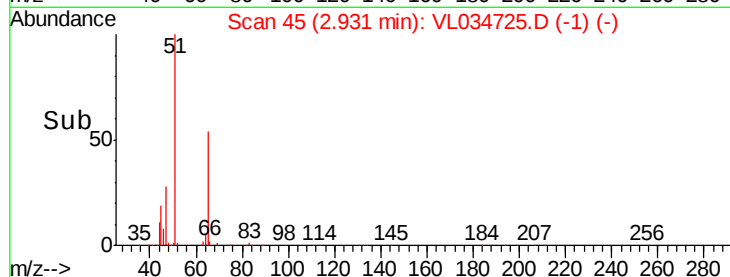
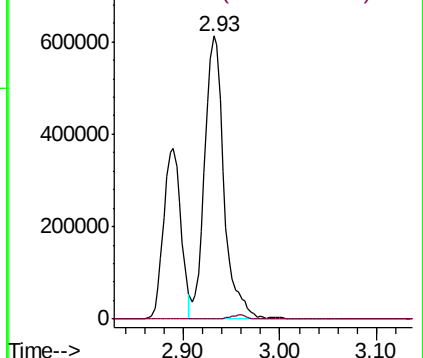
51 100

67 1.3 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.021 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.01 min

Lab File: VL034725.D

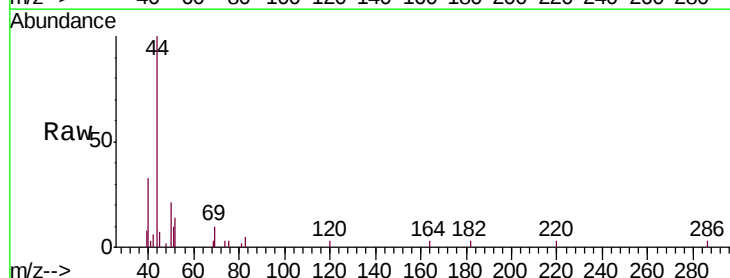
Acq: 28 Feb 2020 1:55

Tgt Ion: 50 Resp: 1479

Ion Ratio Lower Upper

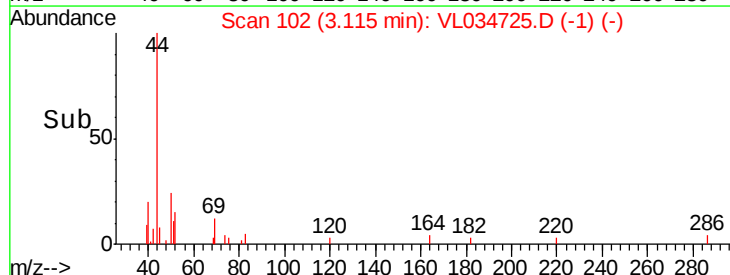
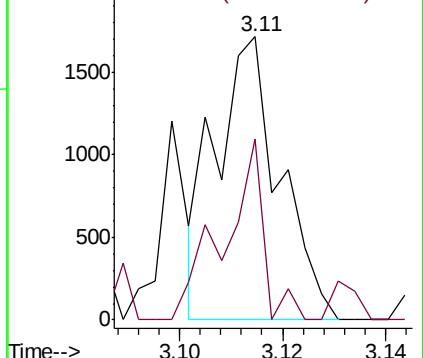
50 100

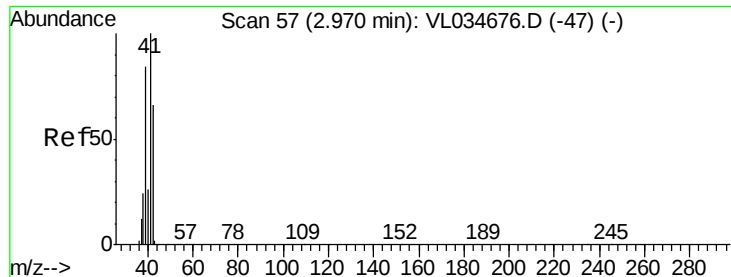
52 59.6 25.0 37.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

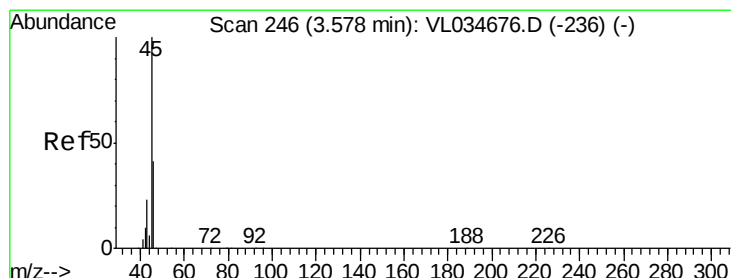
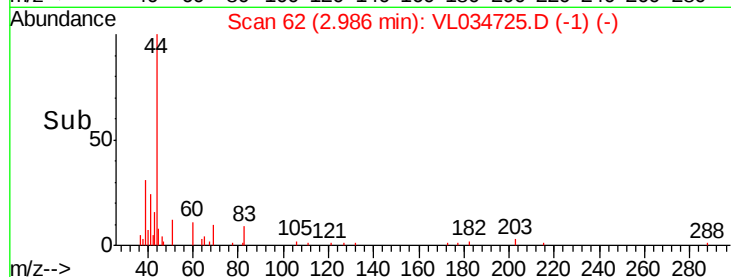
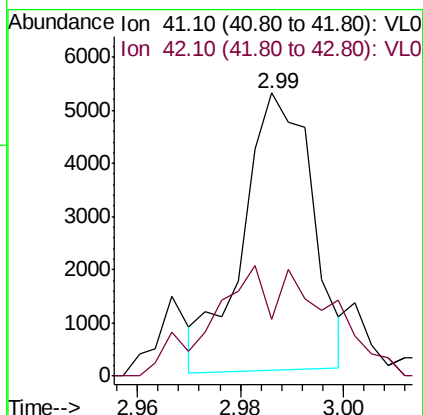
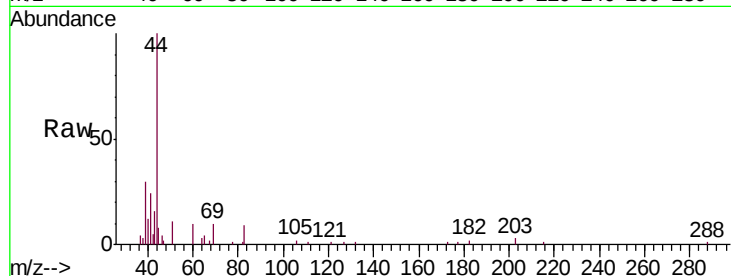




#9
 Propene
 Concen: 0.094 ppbv
 RT: 2.99 min Scan# 62
 Delta R.T. 0.02 min
 Lab File: VL034725.D
 Acq: 28 Feb 2020 1:55

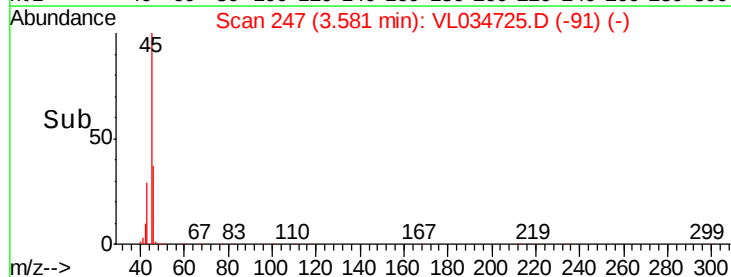
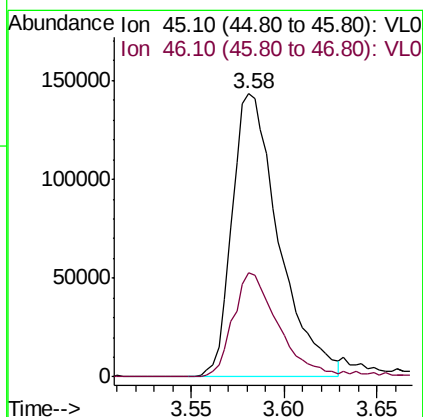
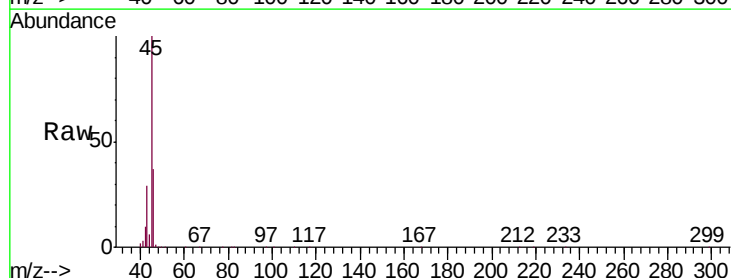
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3-CAFETERIADL

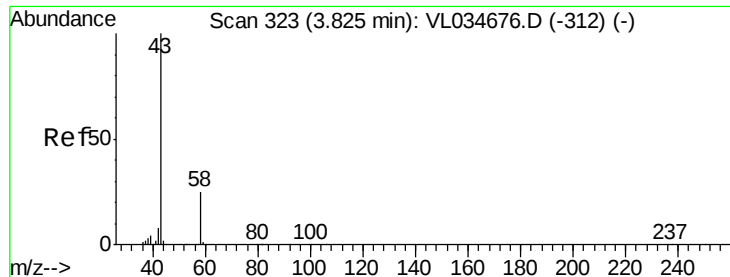
Tgt Ion: 41 Resp: 4849
 Ion Ratio Lower Upper
 41 100
 42 64.2 54.9 82.3



#13
 Ethanol
 Concen: 15.452 ppbv
 RT: 3.58 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VL034725.D
 Acq: 28 Feb 2020 1:55

Tgt Ion: 45 Resp: 252161
 Ion Ratio Lower Upper
 45 100
 46 36.8 15.4 61.4





#15

Acetone

Concen: 1.500 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.02 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

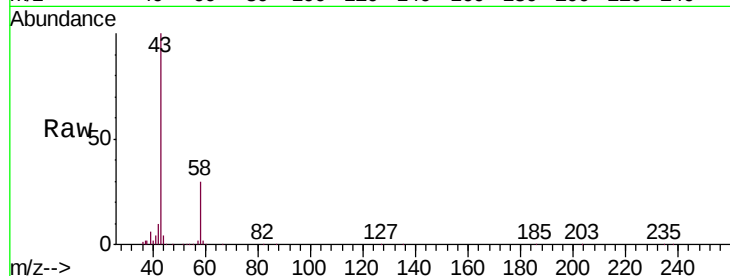
SG-3-CAFETERIADL

Tgt Ion: 43 Resp: 195738

Ion Ratio Lower Upper

43 100

58 28.7 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

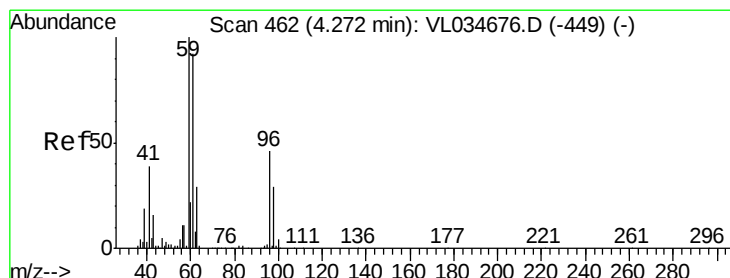
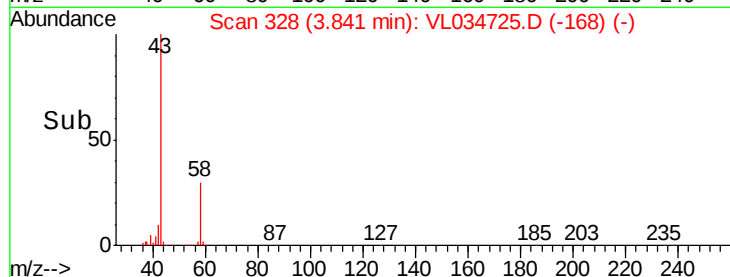
100000

50000

0

3.80 3.85 3.90

Time-->



#17

tert-Butyl alcohol

Concen: 0.323 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.02 min

Lab File: VL034725.D

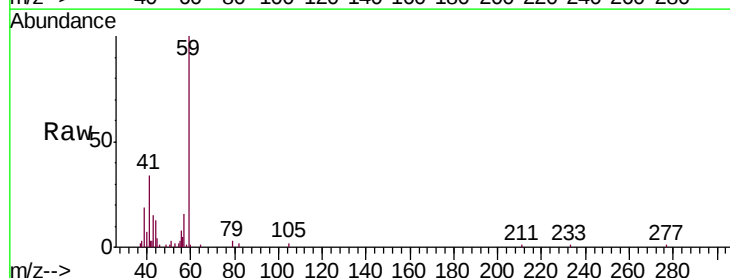
Acq: 28 Feb 2020 1:55

Tgt Ion: 59 Resp: 32298

Ion Ratio Lower Upper

59 100

57 16.8 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

25000

20000

15000

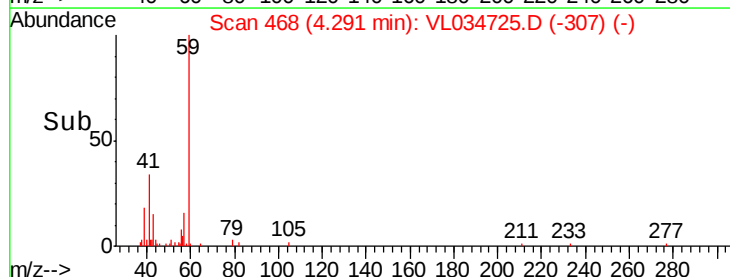
10000

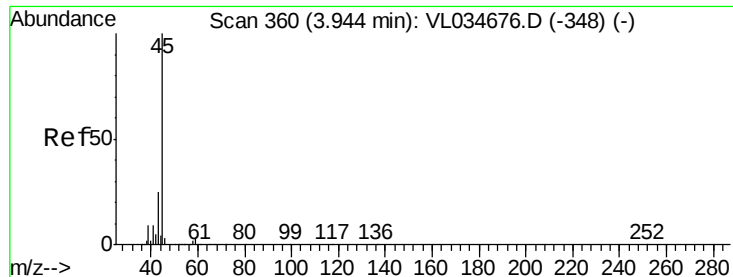
5000

0

4.25 4.30

Time-->





#19

Isopropyl Alcohol

Concen: 4.357 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

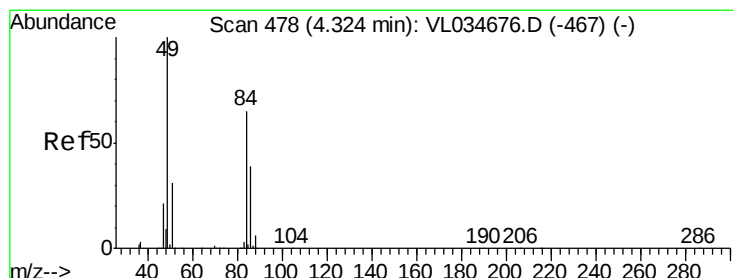
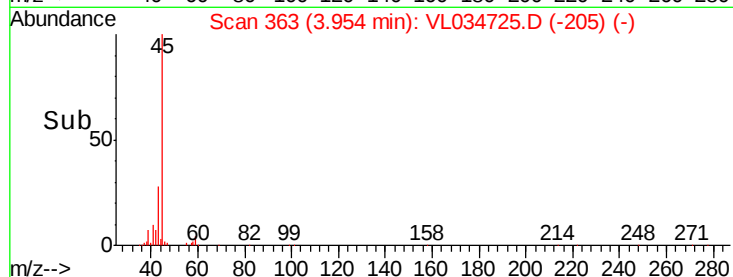
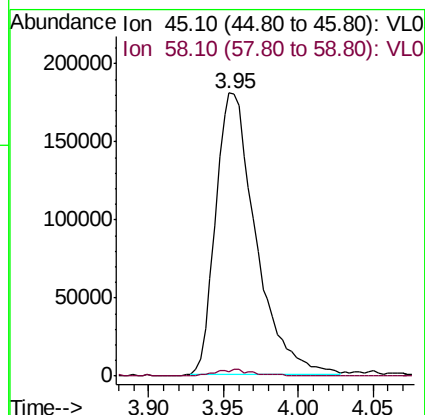
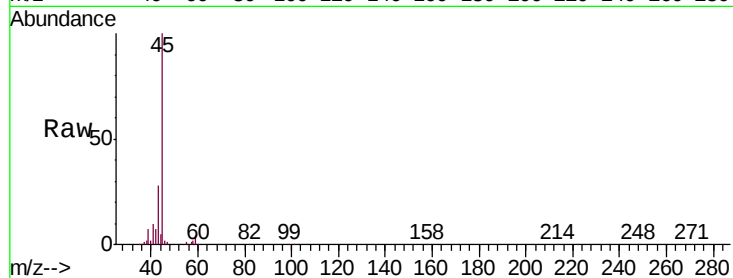
SG-3-CAFETERIADL

Tgt Ion: 45 Resp: 338685

Ion Ratio Lower Upper

45 100

58 2.3 1.8 2.6



#20

Methylene Chloride

Concen: 0.069 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Tgt Ion: 84 Resp: 3370

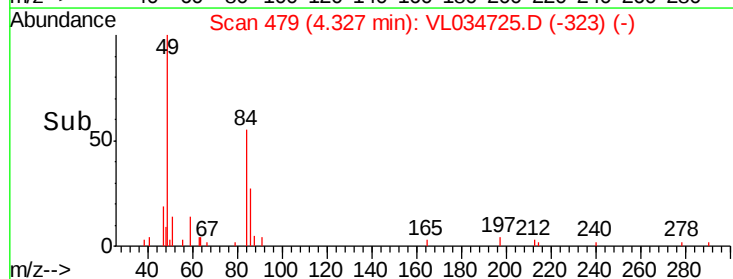
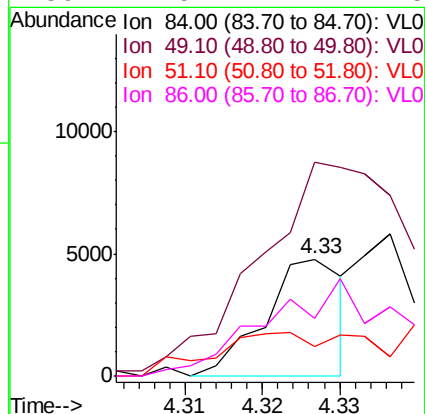
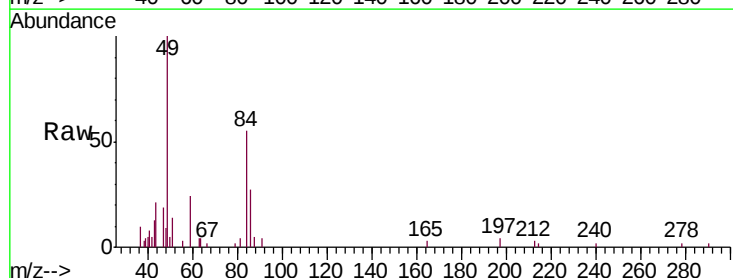
Ion Ratio Lower Upper

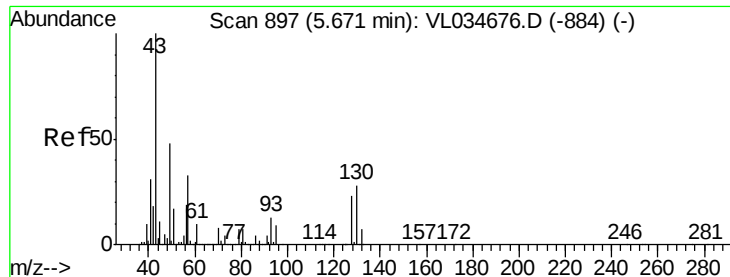
84 100

49 148.6 122.8 184.2

51 12.3 38.6 58.0#

86 41.5 47.7 71.5#

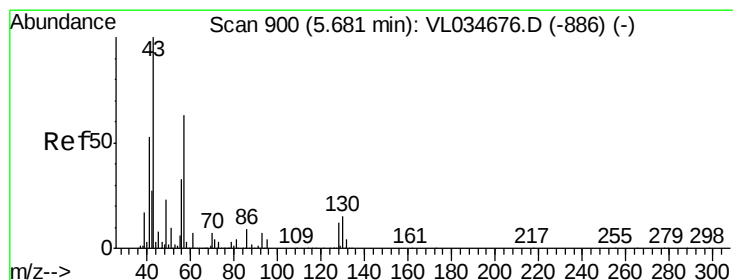
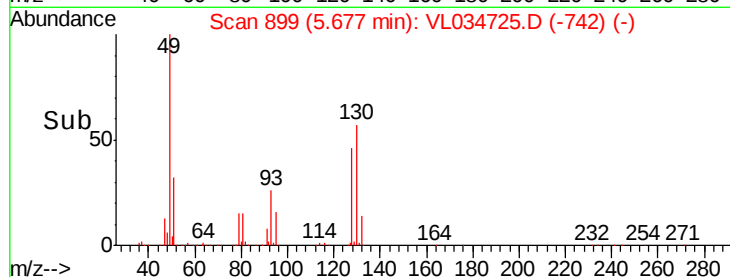
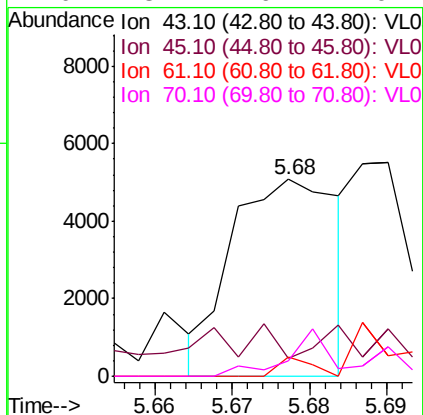
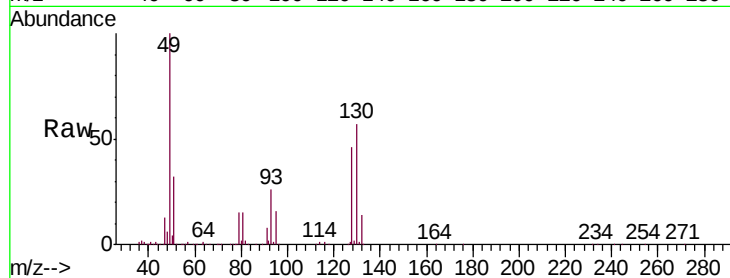




#25
Ethyl Acetate
Concen: 0.021 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL034725.D
Acq: 28 Feb 2020 1:55

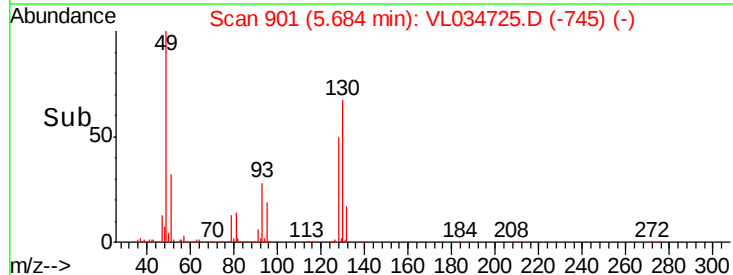
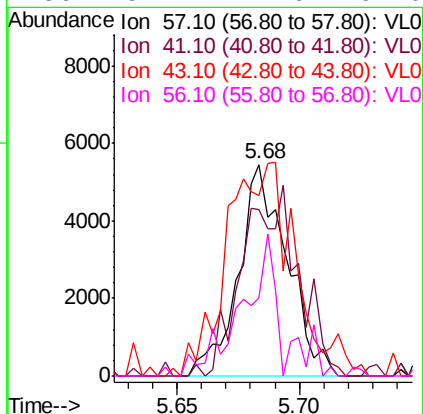
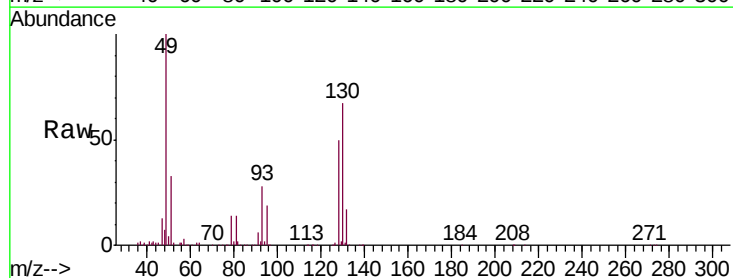
Instrument :
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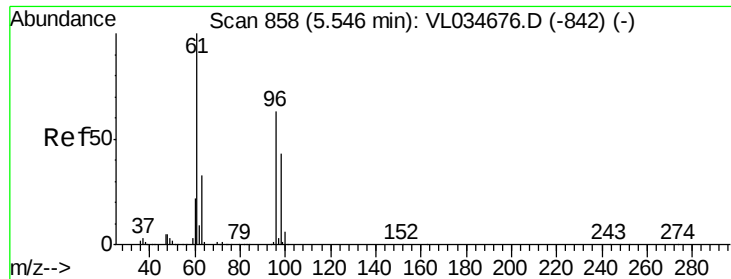
Tgt Ion:	43	Resp:	4837
Ion	Ratio	Lower	Upper
43	100		
45	54.8	8.2	12.4#
61	0.0	7.8	11.6#
70	13.7	6.1	9.1#



#26
Hexane
Concen: 0.071 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034725.D
Acq: 28 Feb 2020 1:55

Tgt Ion:	57	Resp:	7526
Ion	Ratio	Lower	Upper
57	100		
41	105.4	70.3	105.5
43	142.7	177.0	265.4#
56	54.1	42.6	64.0

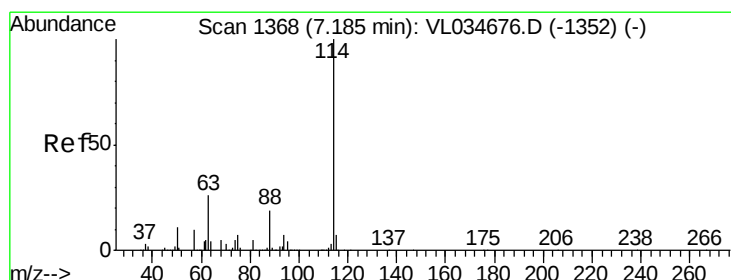
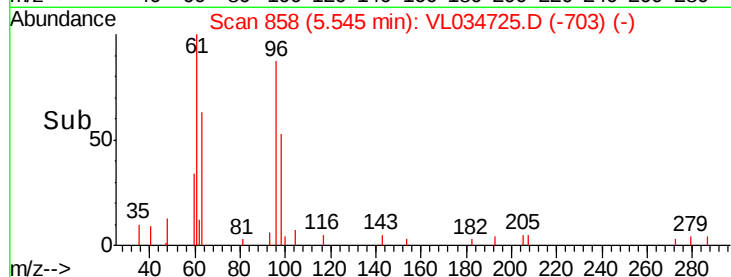
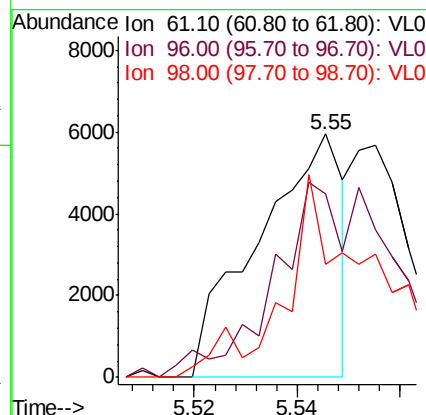
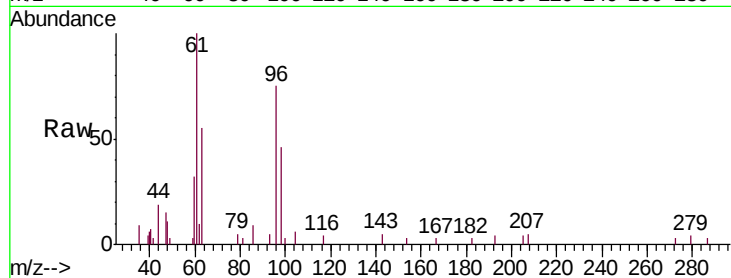




#31
 cis-1,2-Dichloroethene
 Concen: 0.065 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. -0.00 min
 Lab File: VL034725.D
 Acq: 28 Feb 2020 1:55

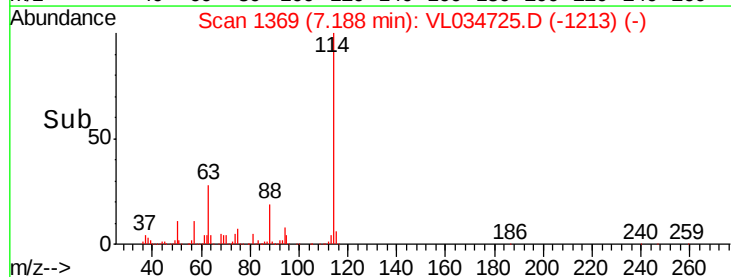
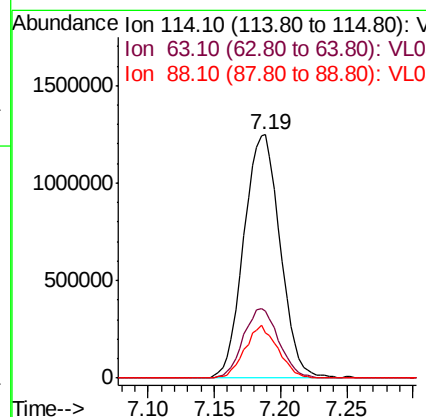
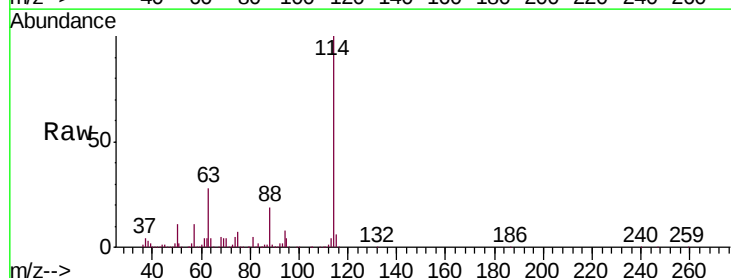
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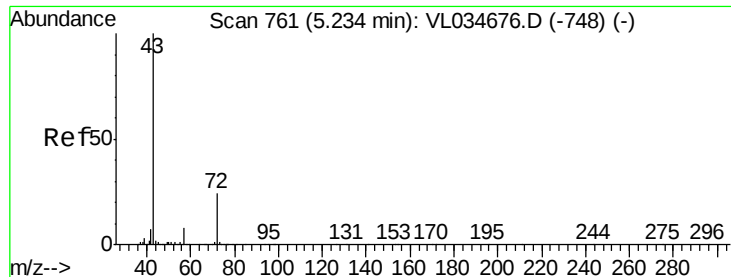
Tgt Ion: 61 Resp: 6793
 Ion Ratio Lower Upper
 61 100
 96 64.2 50.2 75.2
 98 42.0 34.3 51.5



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: VL034725.D
 Acq: 28 Feb 2020 1:55

Tgt Ion: 114 Resp: 2378789
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.9 34.3
 88 19.8 15.8 23.6

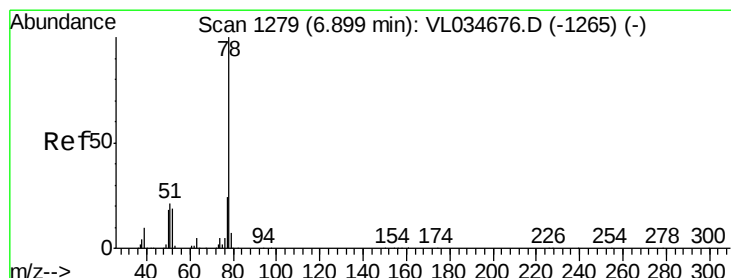
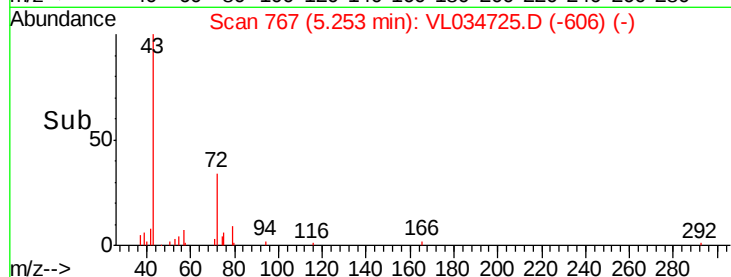
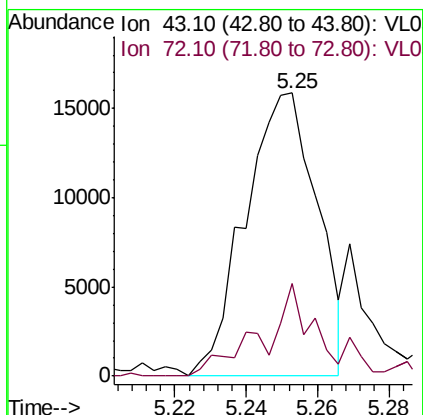
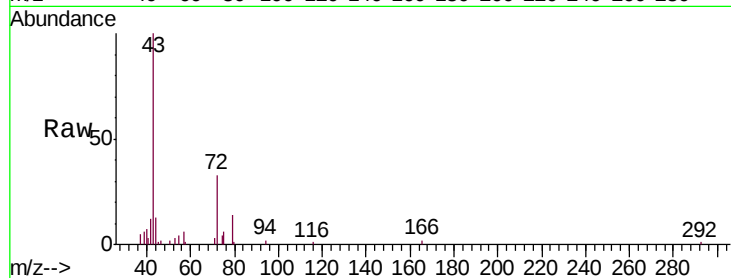




#34
 2-Butanone
 Concen: 0.148 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL034725.D
 Acq: 28 Feb 2020 1:55

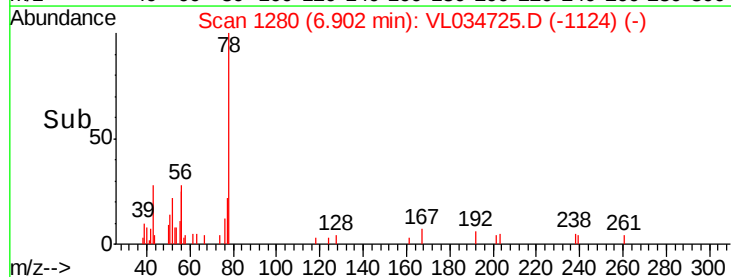
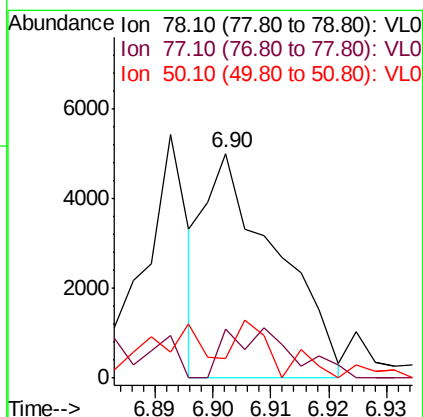
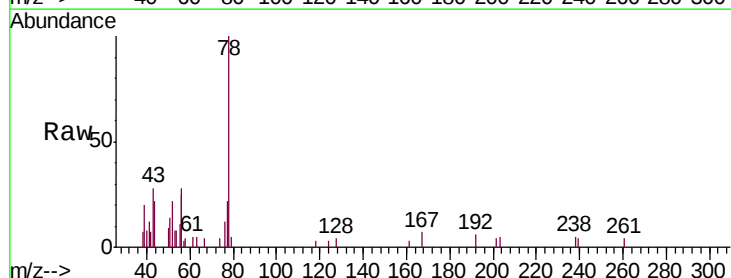
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3-CAFETERIADL

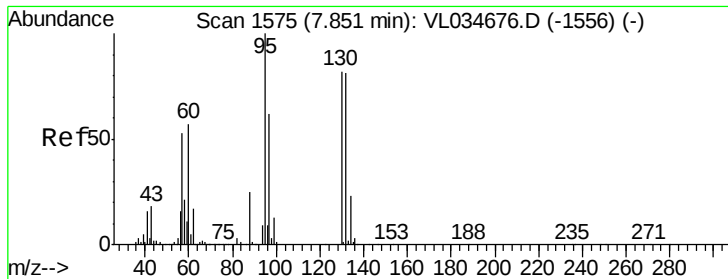
Tgt Ion: 43 Resp: 22223
 Ion Ratio Lower Upper
 43 100
 72 25.3 18.2 27.2



#36
 Benzene
 Concen: 0.021 ppbv
 RT: 6.90 min Scan# 1280
 Delta R.T. 0.00 min
 Lab File: VL034725.D
 Acq: 28 Feb 2020 1:55

Tgt Ion: 78 Resp: 4305
 Ion Ratio Lower Upper
 78 100
 77 23.7 19.5 29.3
 50 9.3 14.6 21.8#





#38

Trichloroethene

Concen: 0.098 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

SG-3-CAFETERIADL

Tgt Ion:130 Resp: 7786

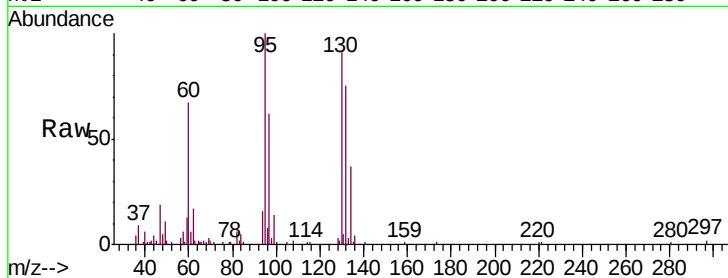
Ion Ratio Lower Upper

130 100

95 17.9 97.1 145.7#

132 0.0 78.3 117.5#

97 15.3 60.1 90.1#



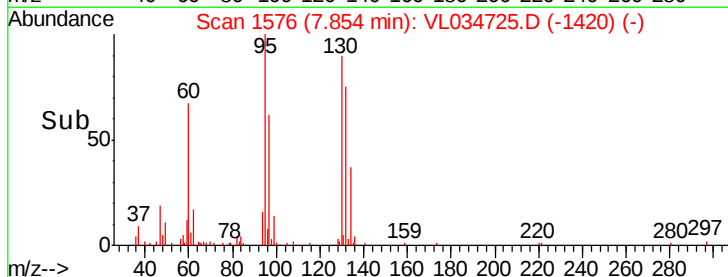
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

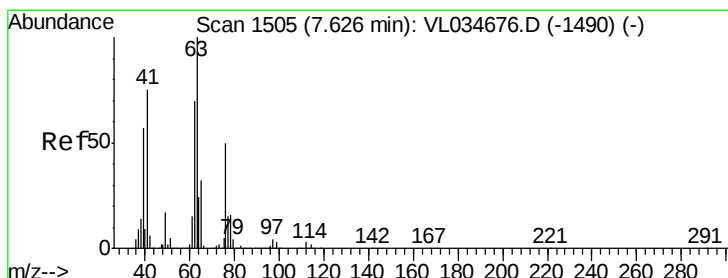
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

Time-->



Time-->



#39

1,2-Dichloropropane

Concen: 8.101 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.44 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

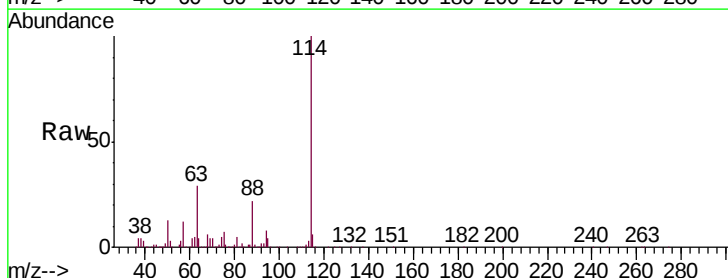
Tgt Ion: 63 Resp: 662177

Ion Ratio Lower Upper

63 100

41 0.1 60.2 90.4#

62 16.6 56.3 84.5#

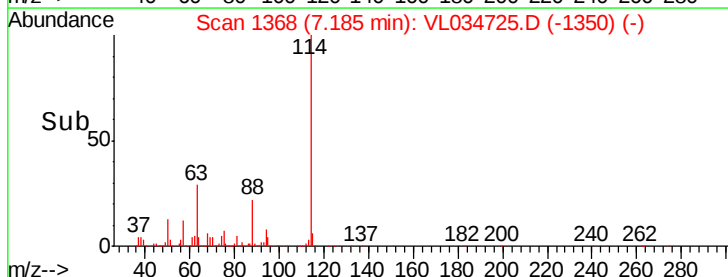


Abundance Ion 63.10 (62.80 to 63.80): VL0

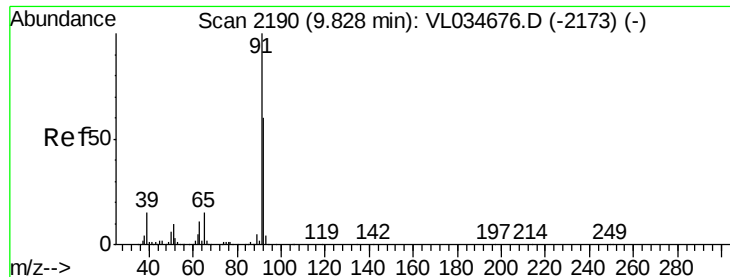
Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

Time-->



Time-->



#53

Toluene

Concen: 0.159 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

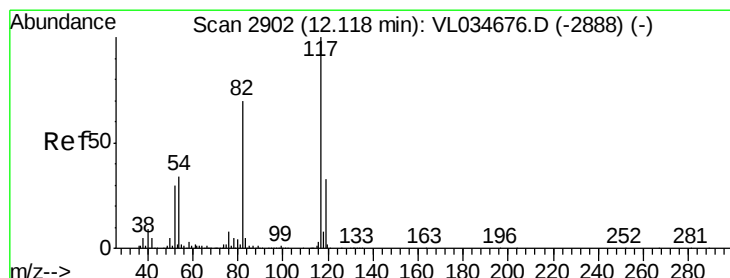
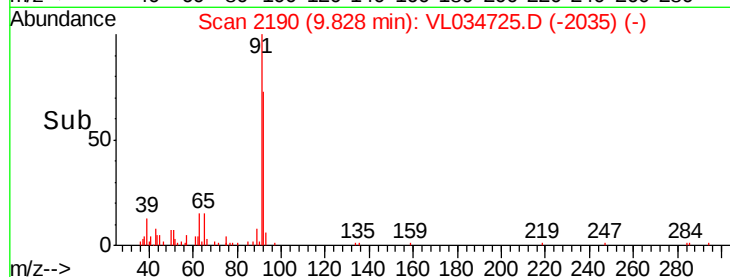
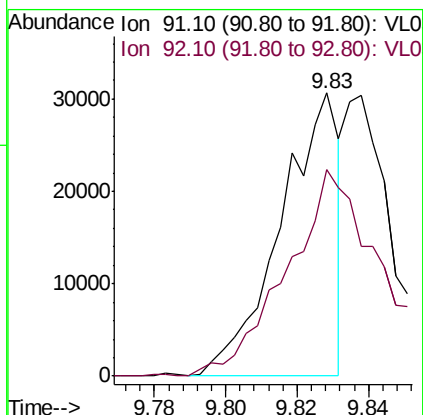
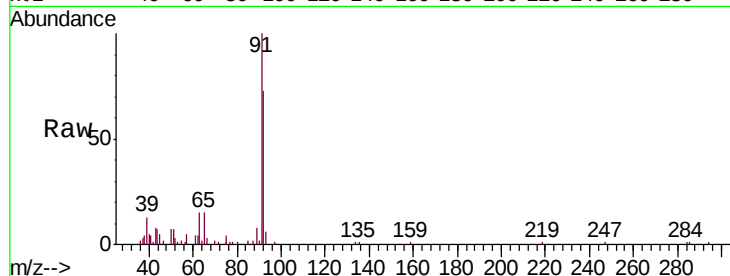
SG-3-CAFETERIADL

Tgt Ion: 91 Resp: 34790

Ion Ratio Lower Upper

91 100

92 117.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

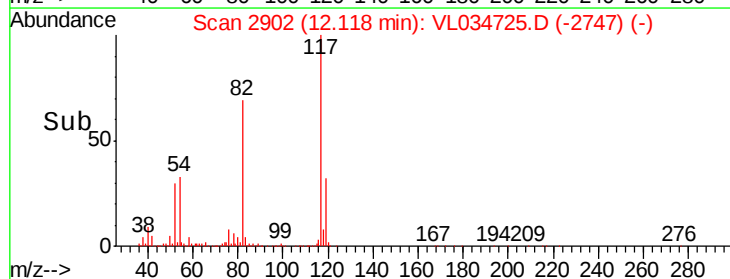
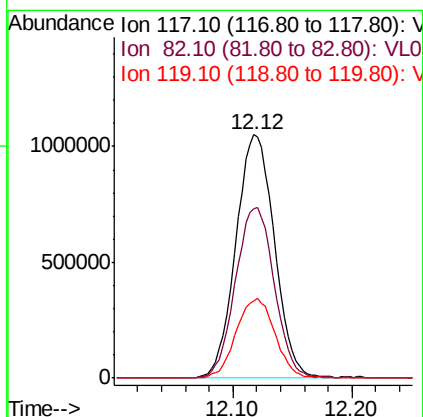
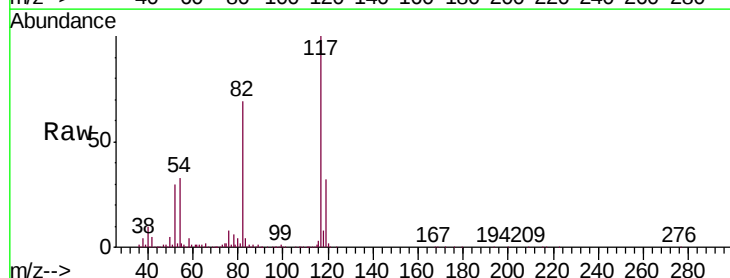
Tgt Ion: 117 Resp: 2356110

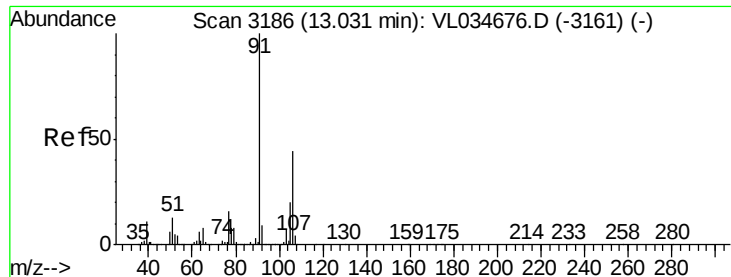
Ion Ratio Lower Upper

117 100

82 70.9 54.1 81.1

119 33.0 27.6 41.4

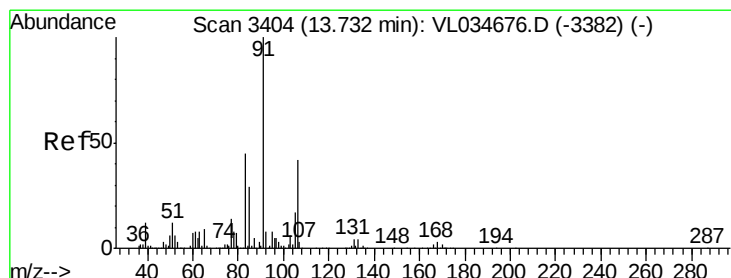
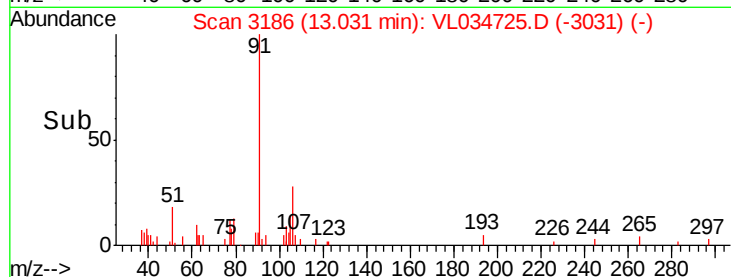
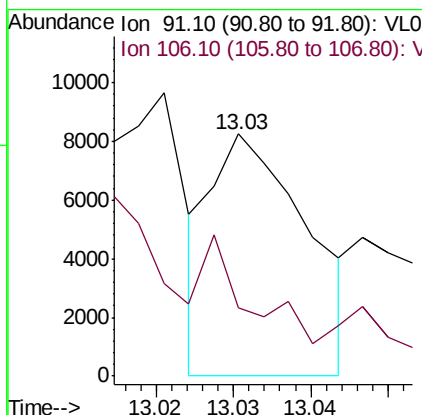
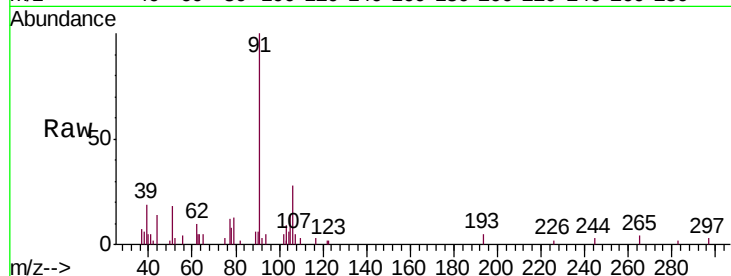




#59
m/p-Xylene
Concen: 0.029 ppbv
RT: 13.03 min Scan# 3186
Delta R.T. -0.00 min
Lab File: VL034725.D
Acq: 28 Feb 2020 1:55

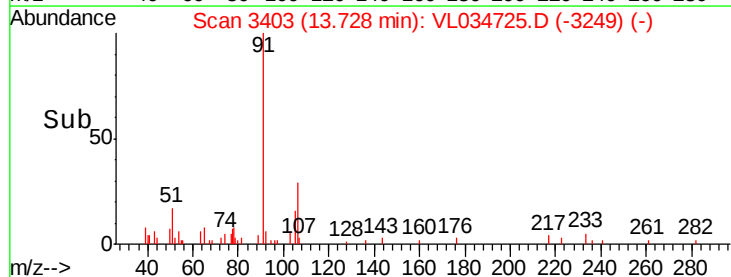
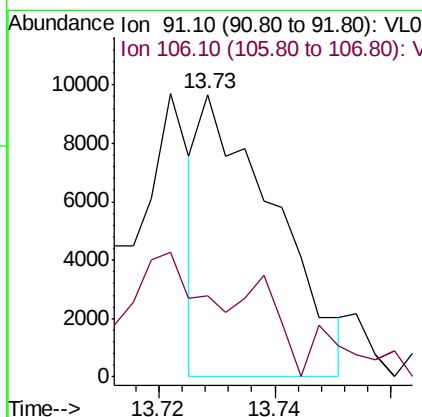
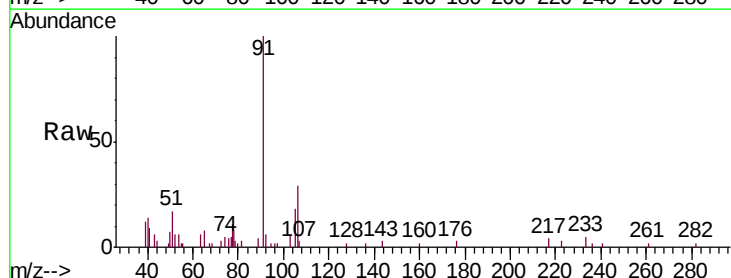
Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIADL

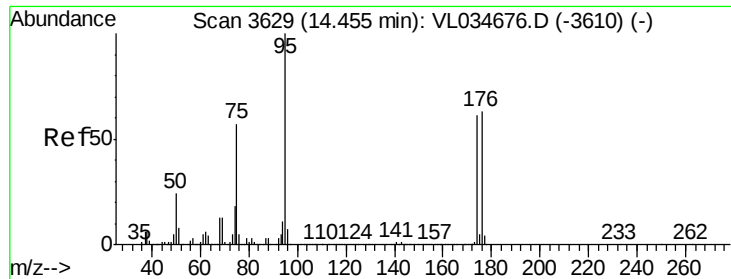
Tgt Ion: 91 Resp: 7118
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#



#60
o-Xylene
Concen: 0.035 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. -0.00 min
Lab File: VL034725.D
Acq: 28 Feb 2020 1:55

Tgt Ion: 91 Resp: 8687
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.005 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. -0.00 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

SG-3-CAFETERIADL

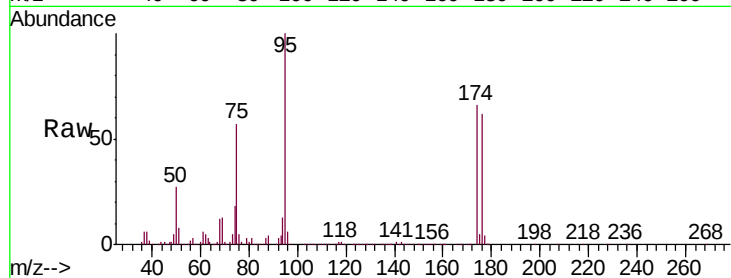
Tgt Ion: 95 Resp: 1932918

Ion Ratio Lower Upper

95 100

174 66.0 50.7 76.1

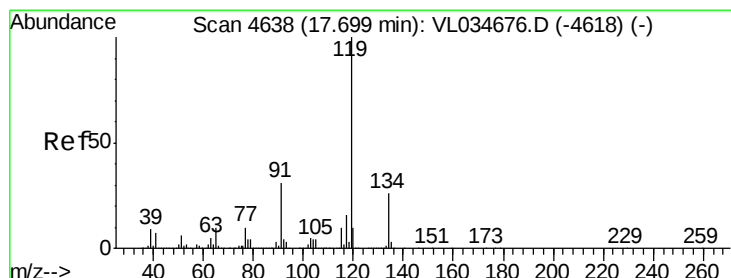
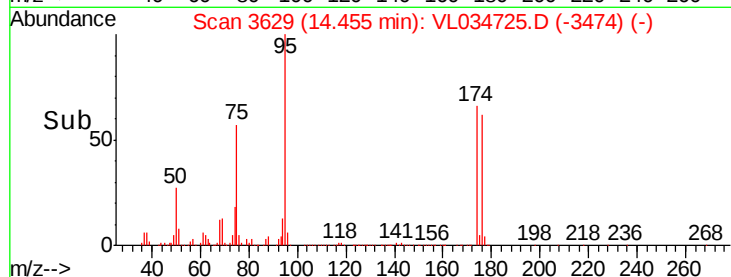
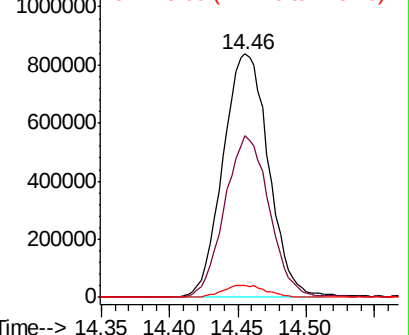
175 5.0 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.021 ppbv

RT: 17.70 min Scan# 4639

Delta R.T. 0.00 min

Lab File: VL034725.D

Acq: 28 Feb 2020 1:55

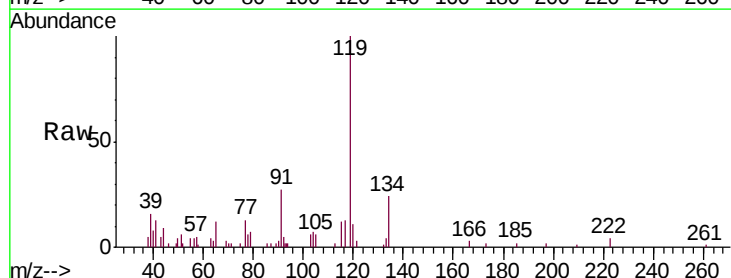
Tgt Ion: 119 Resp: 7901

Ion Ratio Lower Upper

119 100

134 0.0 20.6 31.0#

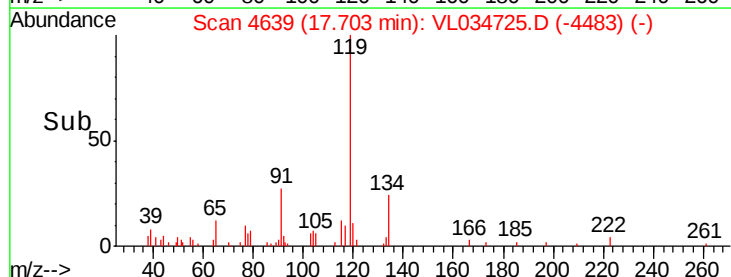
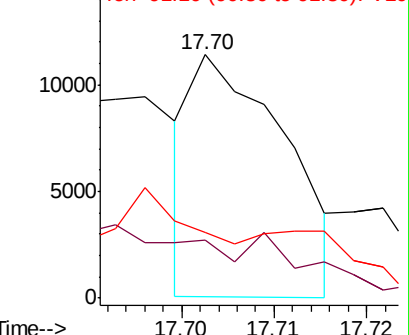
91 0.0 25.3 37.9#

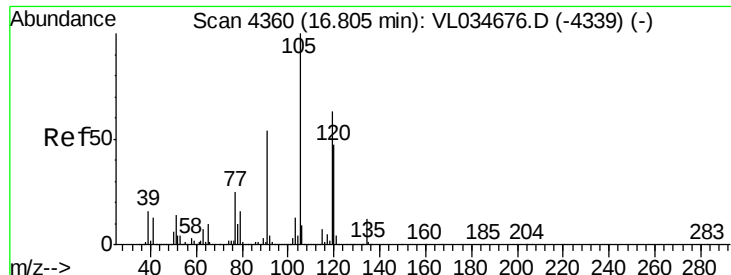


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#74

1,2,4-Trimethylbenzene

Concen: 0.022 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.00 min

Lab File: VL034725.D

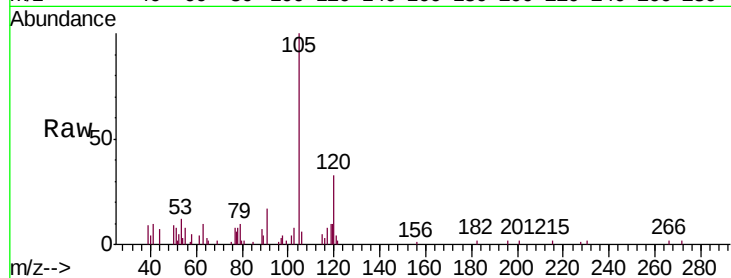
Acq: 28 Feb 2020 1:55

Instrument :

MSVOA_L

ClientSampleId :

SG-3-CAFETERIADL



Tgt Ion:	105	Resp:	6530
Ion	Ratio	Lower	Upper
105	100		
120	5.8	37.9	56.9#
91	29.6	43.9	65.9#
77	0.0	20.3	30.5#

