

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035927.D
 Acq On : 12 Nov 2020 23:57
 Operator : SY/AP
 Sample : L4721-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-2DL

Quant Time: Nov 13 01:01:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1106019	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3871401	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3606373	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2599856	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

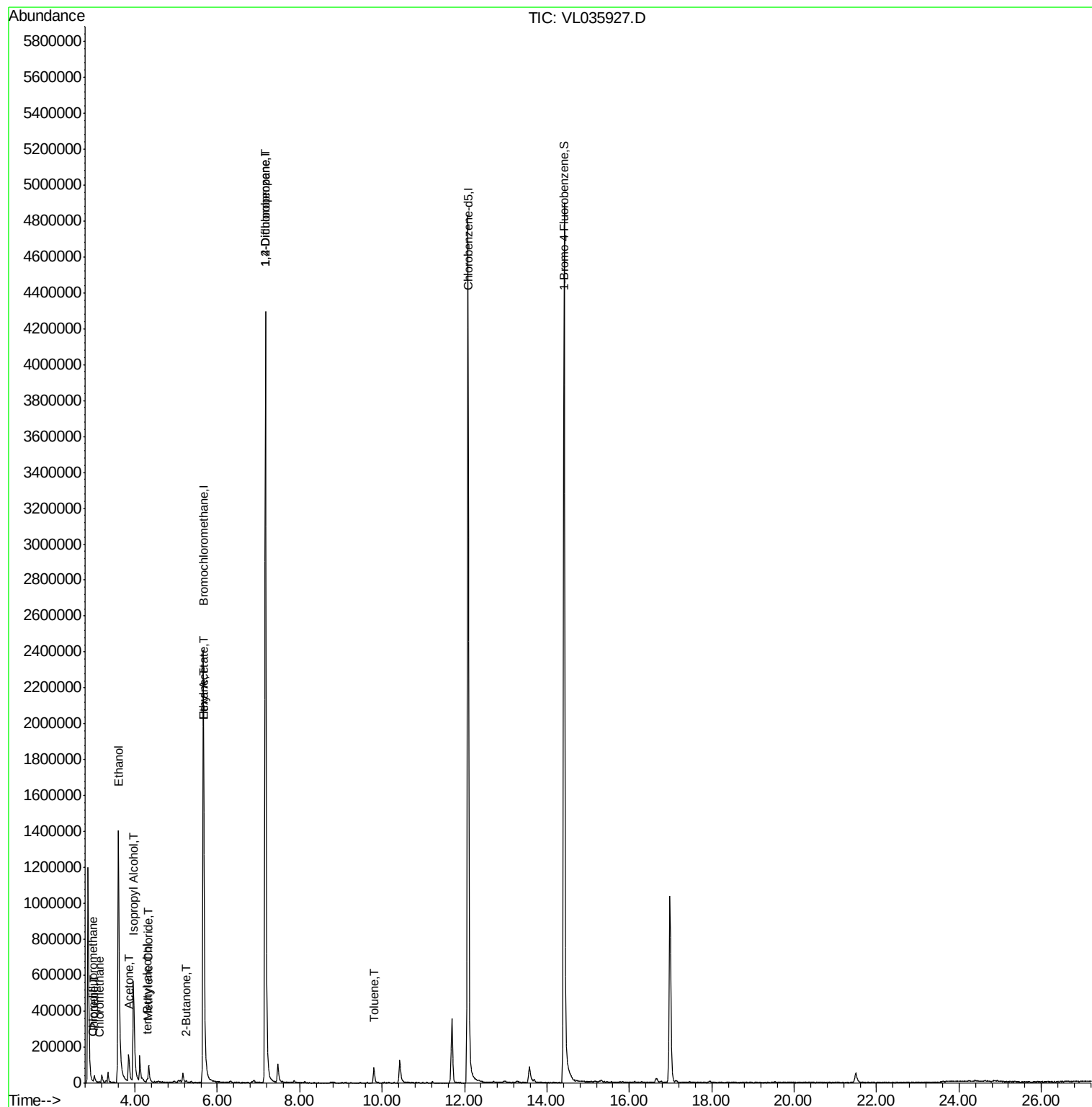
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	11099	0.084	ppbv #	80
4) Chloromethane	3.13	50	3670	0.057	ppbv	93
9) Propene	3.01	41	11439	0.236	ppbv	84
13) Ethanol	3.60	45	2081559	197.923	ppbv	93
15) Acetone	3.84	43	180125	1.523	ppbv	96
17) tert-Butyl alcohol	4.29	59	8790	0.056	ppbv #	82
19) Isopropyl Alcohol	3.96	45	808614	11.128	ppbv	99
20) Methylene Chloride	4.33	84	42260	0.508	ppbv	93
25) Ethyl Acetate	5.68	43	33693	0.145	ppbv #	78
26) Hexane	5.68	57	47764	0.372	ppbv #	45
34) 2-Butanone	5.24	43	11683	0.093	ppbv #	85
39) 1,2-Dichloropropane	7.17	63	800363	8.260	ppbv #	30
53) Toluene	9.80	91	76728	0.221	ppbv	99

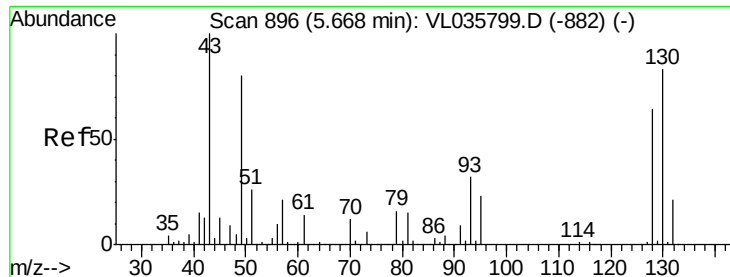
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
LA-2DL

Quant Time: Nov 13 01:01:39 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampled :

LA-2DL

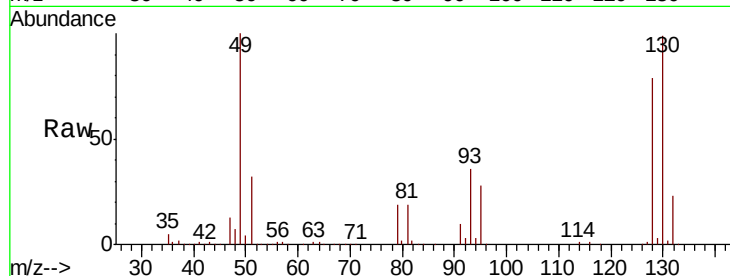
Tot Ion: 49 Resp: 1106019

Ion Ratio Lower Upper

49 100

128 77.5 41.5 124.6

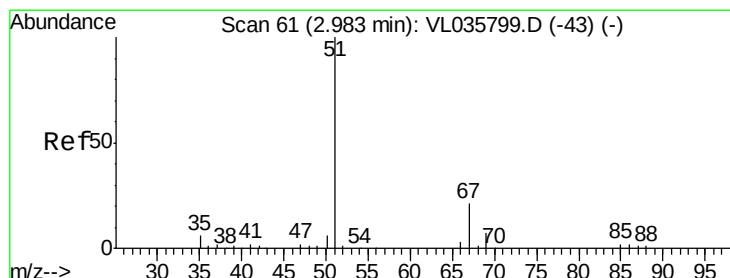
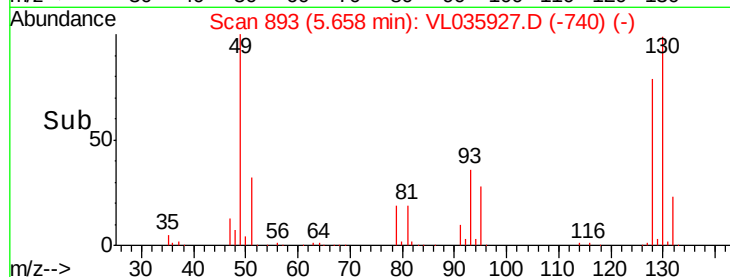
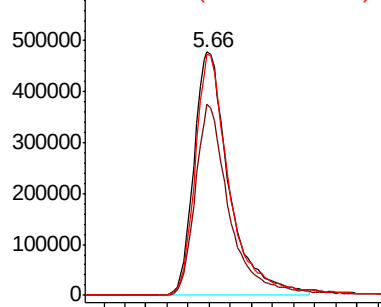
130 99.7 53.7 161.1



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



#3

Chlorodifluoromethane

Concen: 0.084 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035927.D

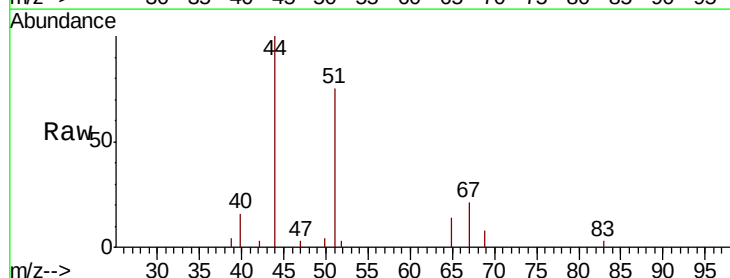
Acq: 12 Nov 2020 23:57

Tgt Ion: 51 Resp: 11099

Ion Ratio Lower Upper

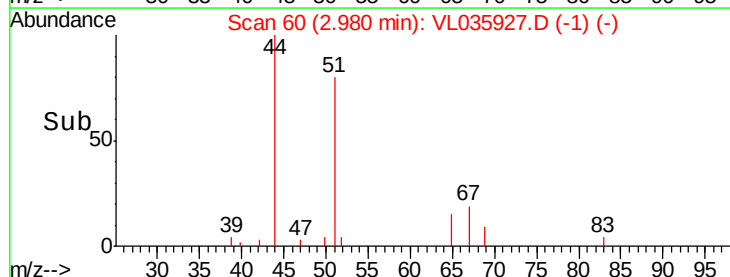
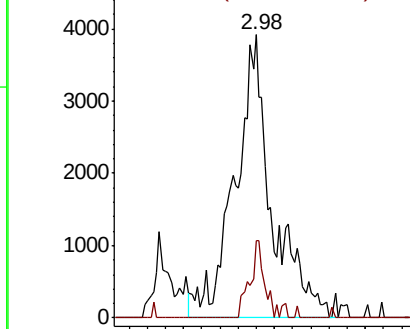
51 100

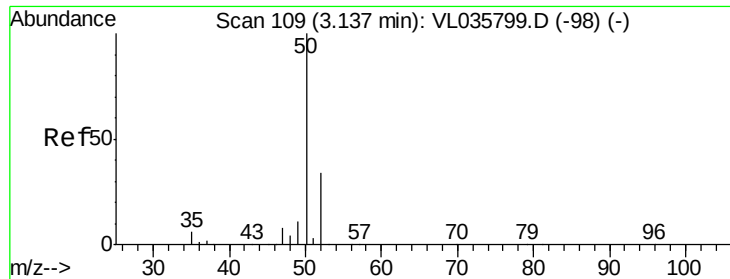
67 11.7 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampleId :

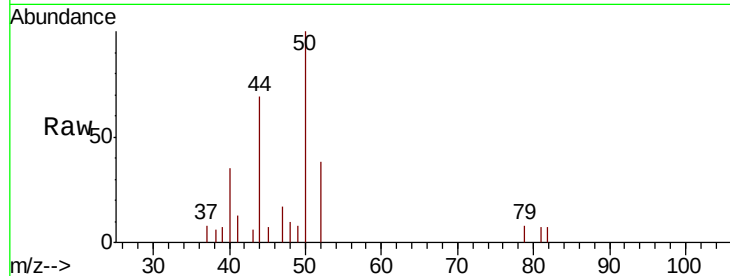
LA-2DL

Tot Ion: 50 Resp: 3670

Ion Ratio Lower Upper

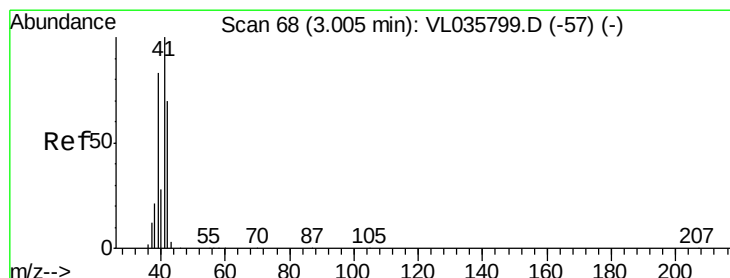
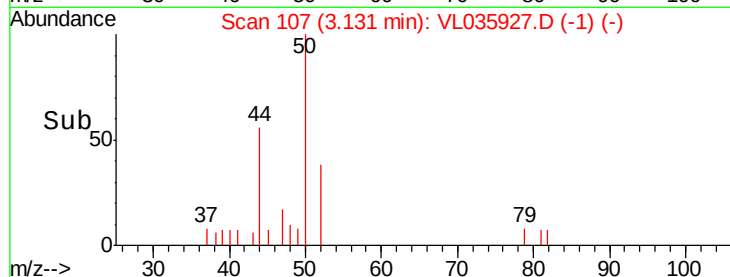
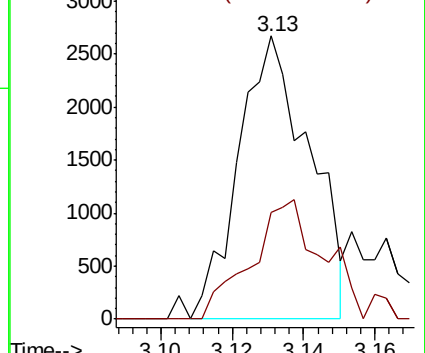
50 100

52 37.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.236 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035927.D

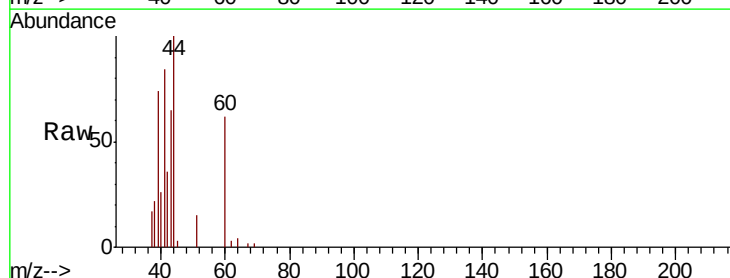
Acq: 12 Nov 2020 23:57

Tgt Ion: 41 Resp: 11439

Ion Ratio Lower Upper

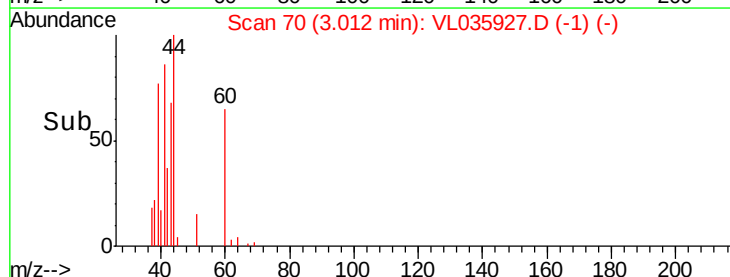
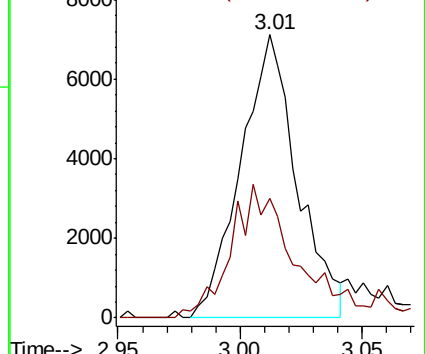
41 100

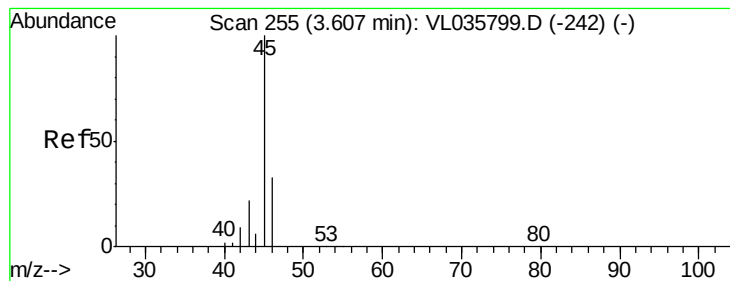
42 57.1 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 197.923 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampleId :

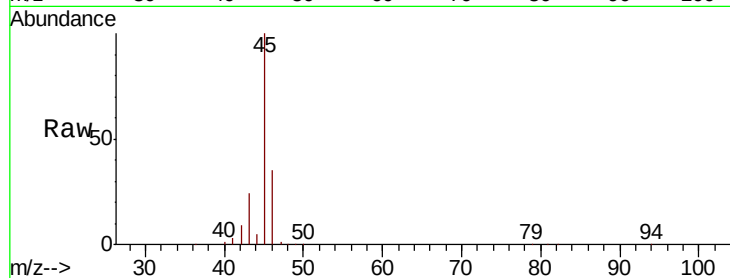
LA-2DL

Tot Ion: 45 Resp: 2081559

Ion Ratio Lower Upper

45 100

46 36.1 16.1 64.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.60

800000

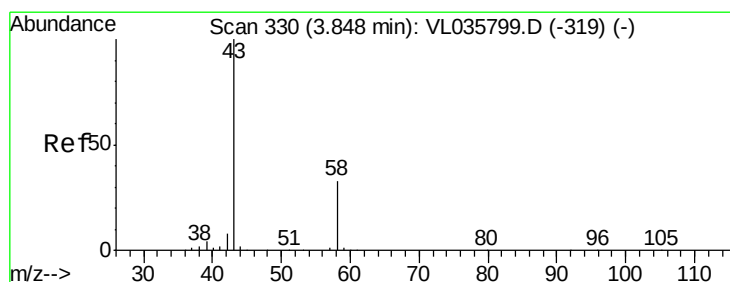
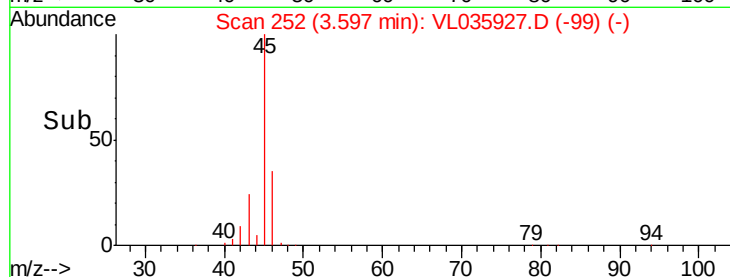
600000

400000

200000

0

Time-->



#15

Acetone

Concen: 1.523 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035927.D

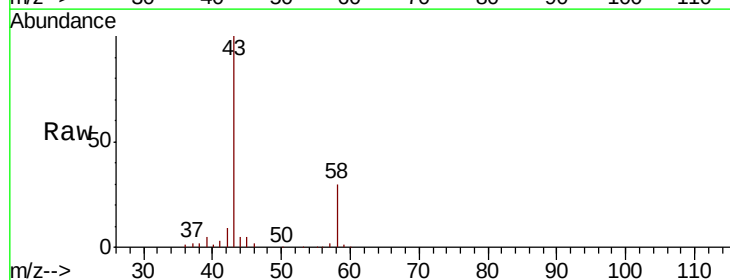
Acq: 12 Nov 2020 23:57

Tgt Ion: 43 Resp: 180125

Ion Ratio Lower Upper

43 100

58 36.7 27.5 41.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

100000

80000

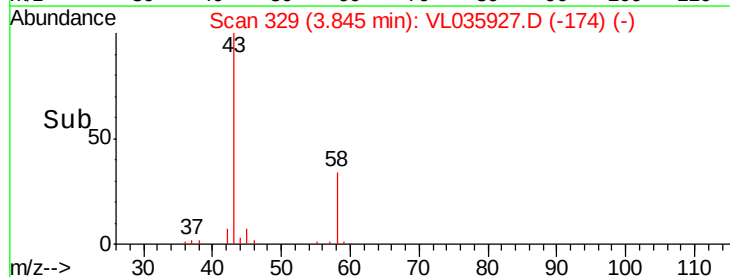
60000

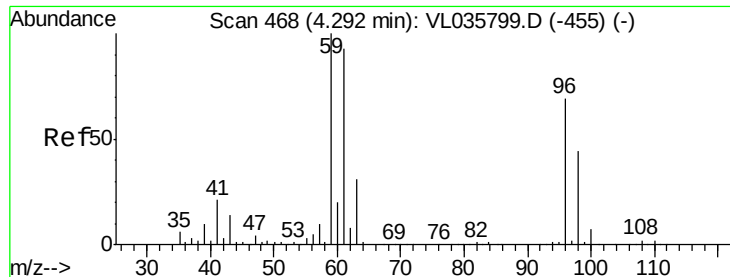
40000

20000

0

Time-->





#17

tert-Butyl alcohol

Concen: 0.056 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampleID :

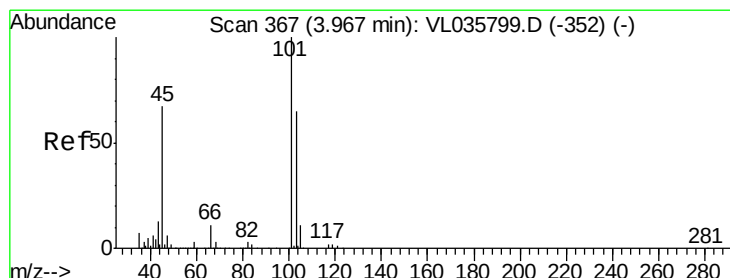
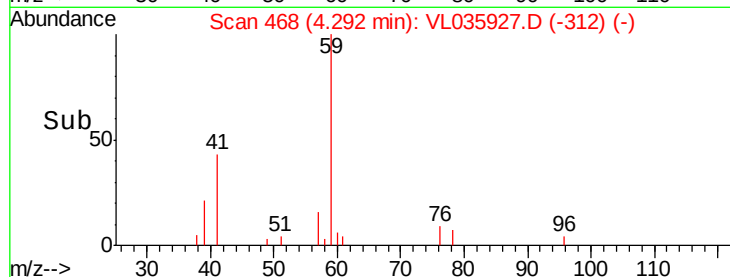
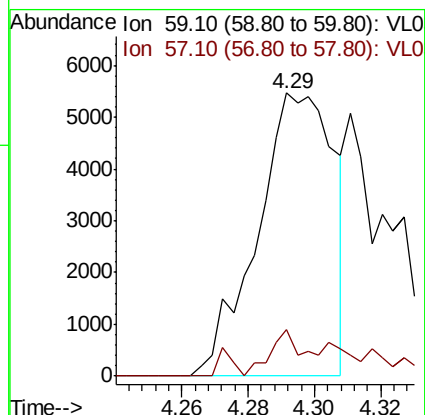
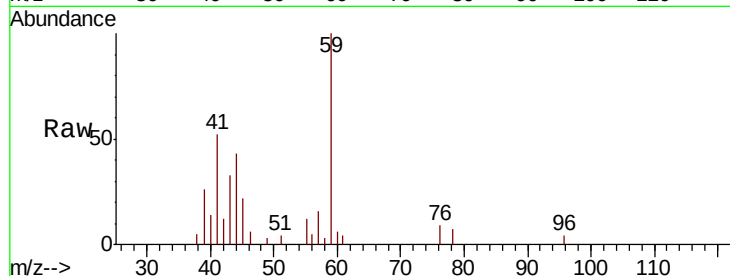
LA-2DL

Tot Ion: 59 Resp: 8790

Ion Ratio Lower Upper

59 100

57 17.2 8.2 12.4#



#19

Isopropyl Alcohol

Concen: 11.128 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL035927.D

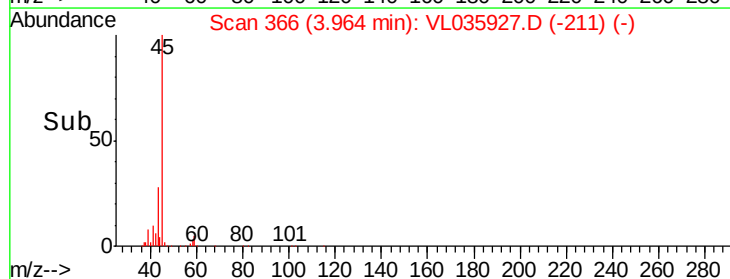
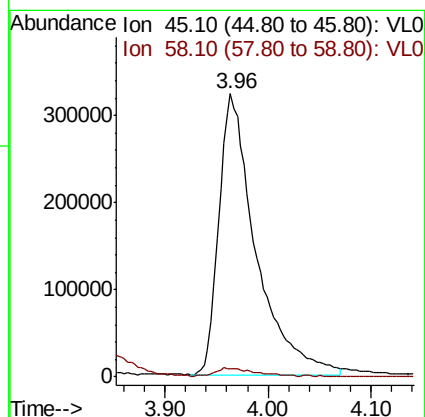
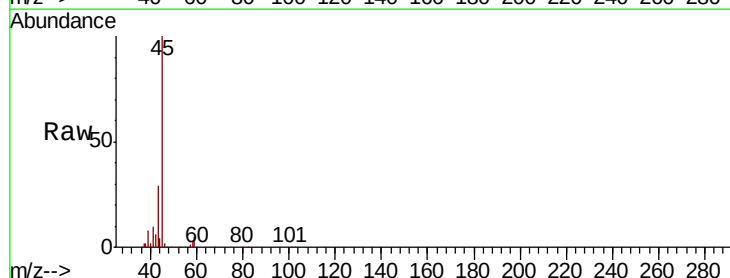
Acq: 12 Nov 2020 23:57

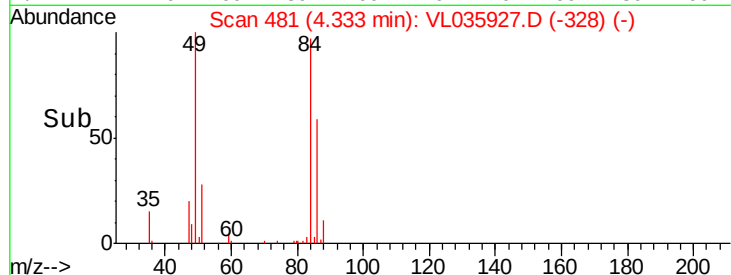
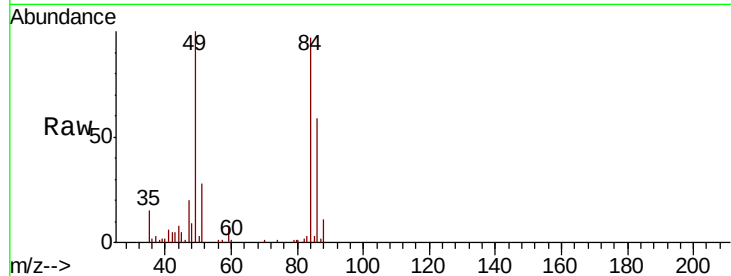
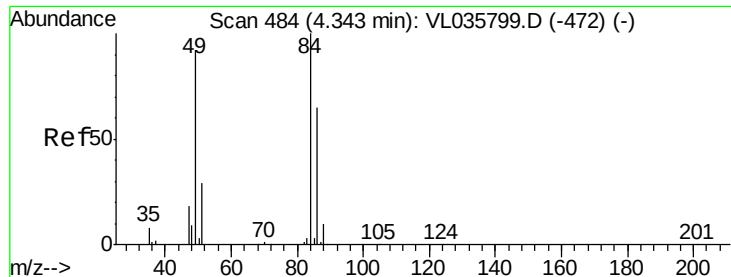
Tgt Ion: 45 Resp: 808614

Ion Ratio Lower Upper

45 100

58 3.6 2.6 3.8

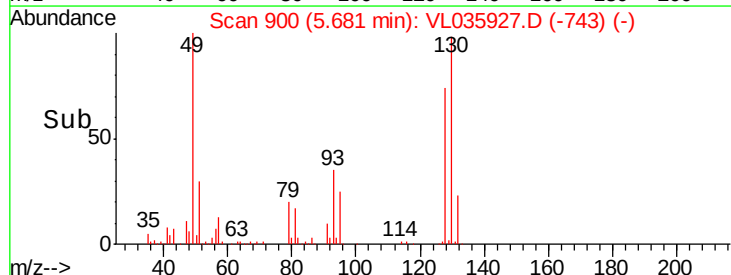
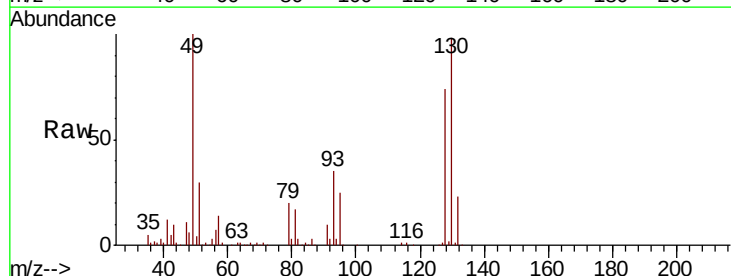
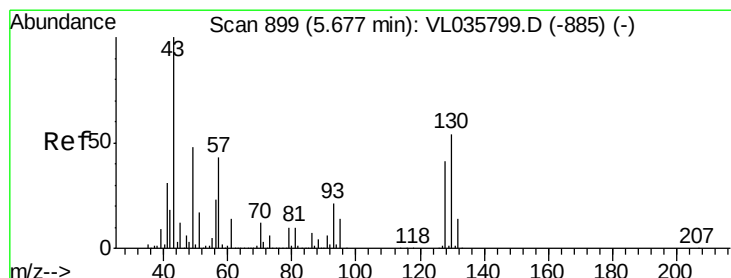
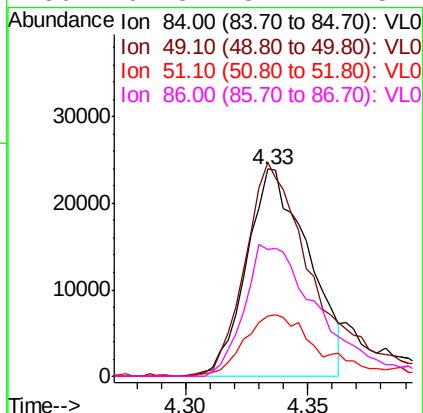




#20
Methylene Chloride
Concen: 0.508 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL035927.D
Acq: 12 Nov 2020 23:57

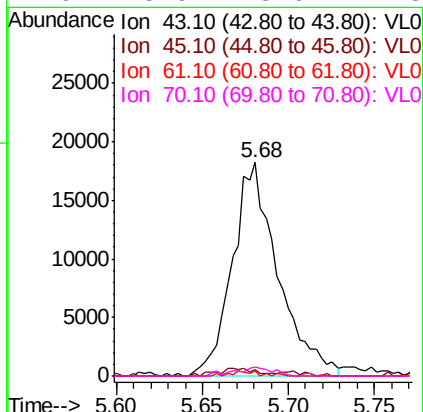
Instrument :
MSVOA_L
ClientSampleId :
LA-2DL

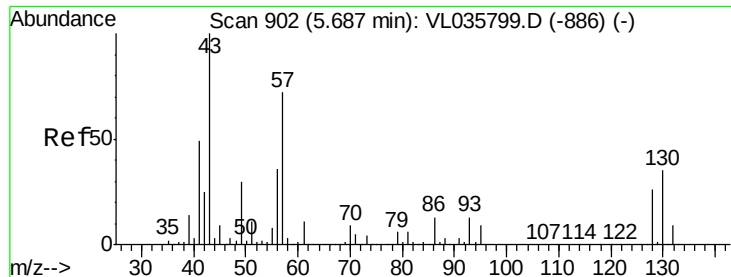
Tot Ion:	84	Resp:	42260
Ion	Ratio	Lower	Upper
84	100		
49	102.5	73.8	110.8
51	29.3	23.0	34.4
86	61.3	52.1	78.1



#25
Ethyl Acetate
Concen: 0.145 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035927.D
Acq: 12 Nov 2020 23:57

Tgt Ion:	43	Resp:	33693
Ion	Ratio	Lower	Upper
43	100		
45	4.3	8.5	12.7#
61	1.5	10.7	16.1#
70	3.9	8.6	12.8#





#26

Hexane

Concen: 0.372 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampleId :

LA-2DL

Tot Ion: 57 Resp: 47764

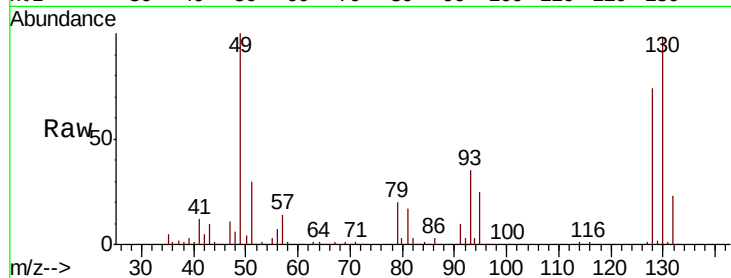
Ion Ratio Lower Upper

57 100

41 93.1 58.9 88.3#

43 72.9 150.2 225.2#

56 63.3 42.4 63.6

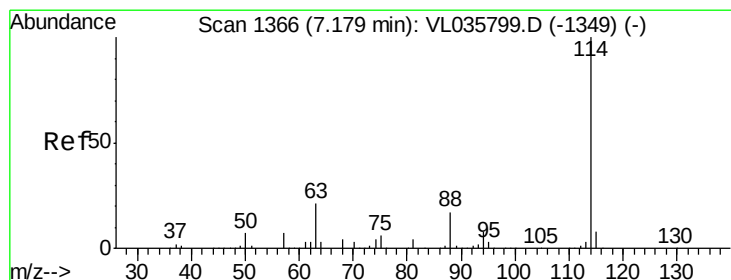
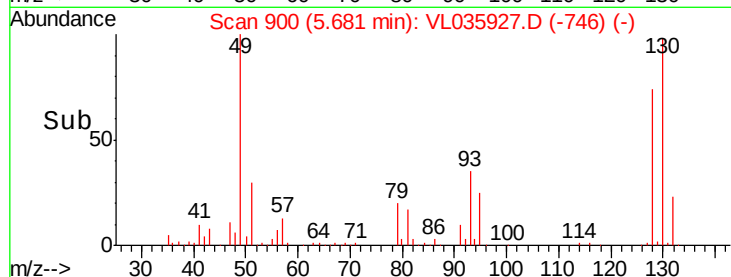
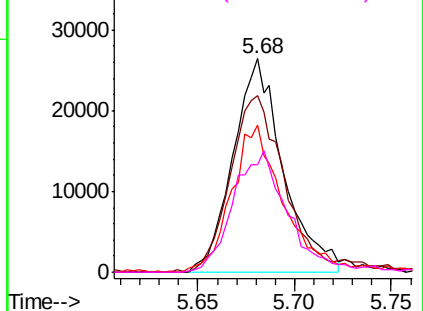


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

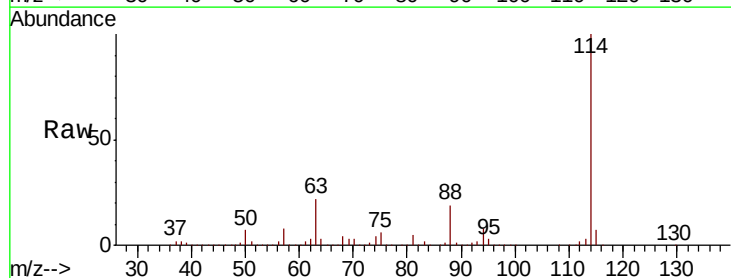
Tgt Ion: 114 Resp: 3871401

Ion Ratio Lower Upper

114 100

63 21.1 16.1 24.1

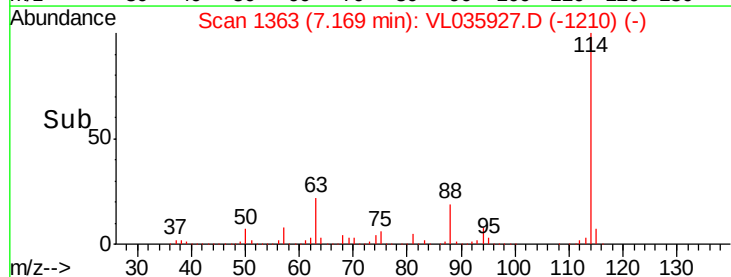
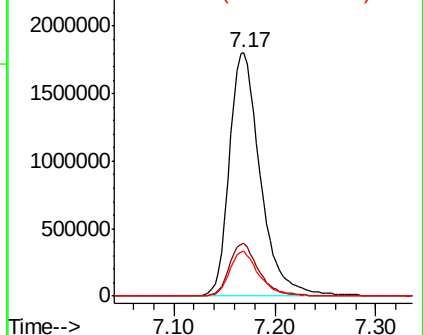
88 17.6 13.7 20.5

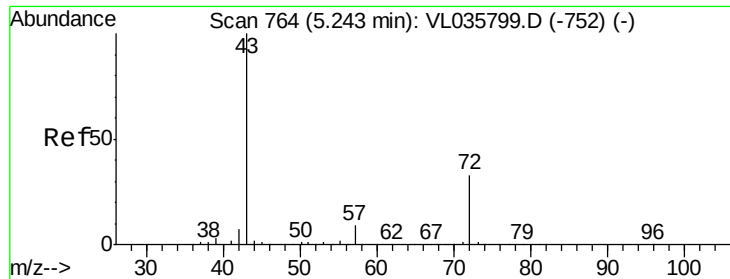


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.093 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.00 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampleId :

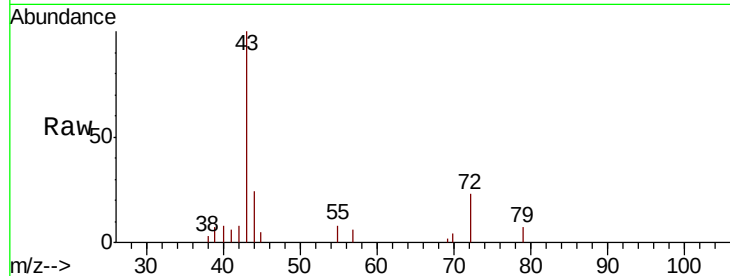
LA-2DL

Tot Ion: 43 Resp: 11683

Ion Ratio Lower Upper

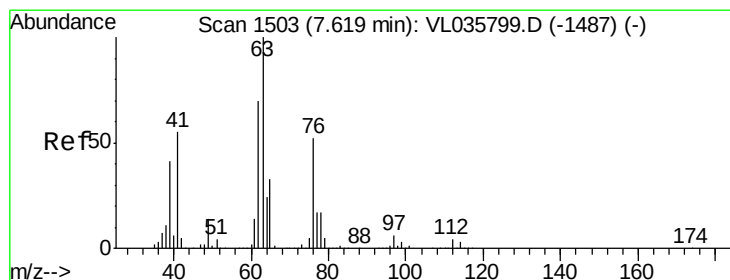
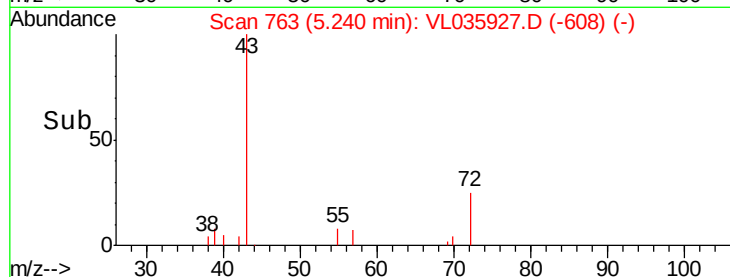
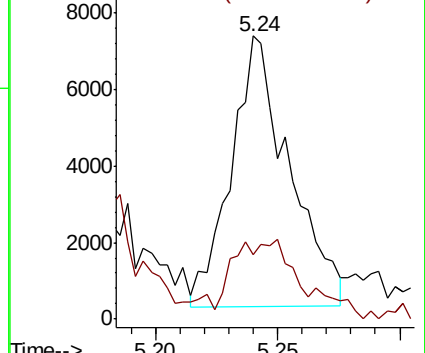
43 100

72 41.6 26.5 39.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#39

1,2-Dichloropropane

Concen: 8.260 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

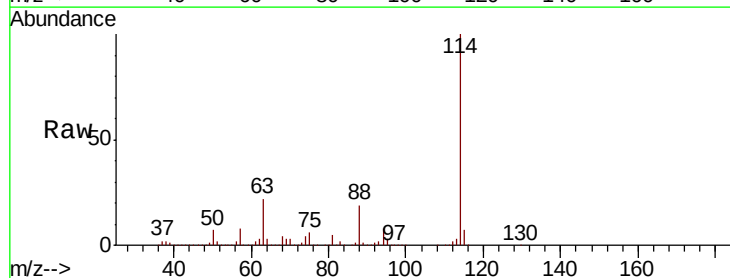
Tgt Ion: 63 Resp: 800363

Ion Ratio Lower Upper

63 100

41 0.0 43.8 65.6#

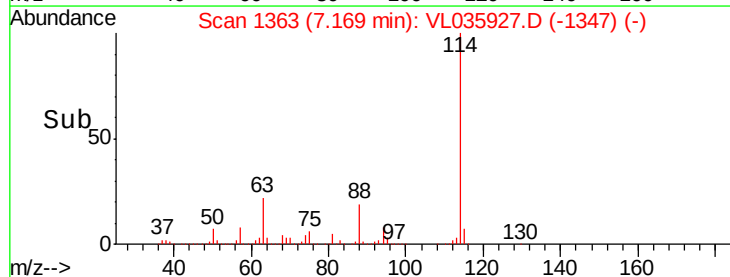
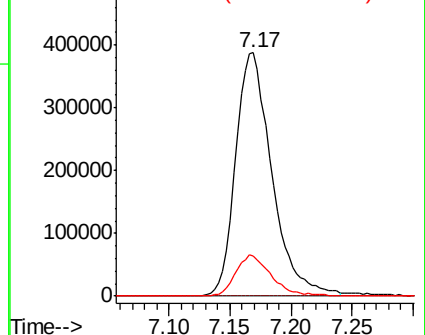
62 16.2 56.2 84.2#

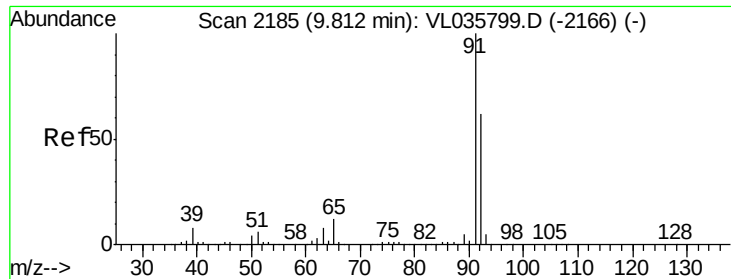


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.221 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampleId :

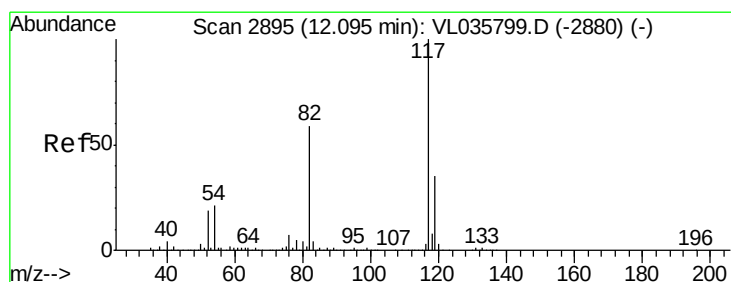
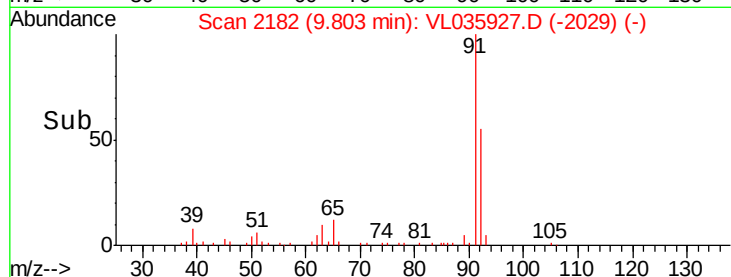
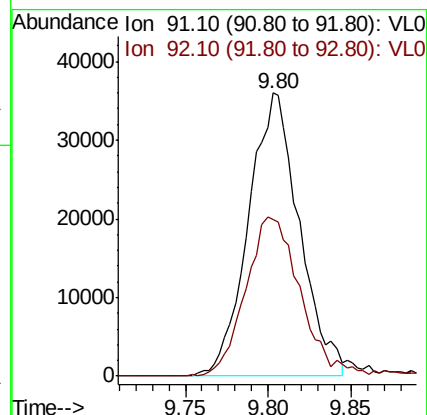
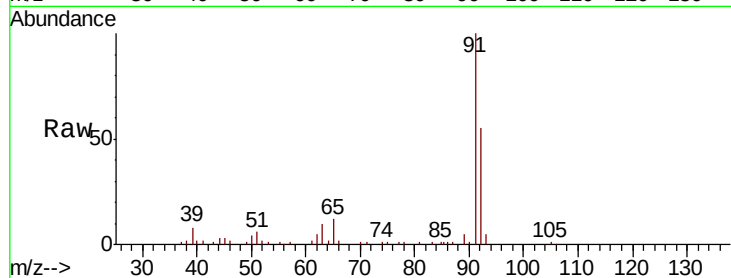
LA-2DL

Tot Ion: 91 Resp: 76728

Ion Ratio Lower Upper

91 100

92 61.3 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

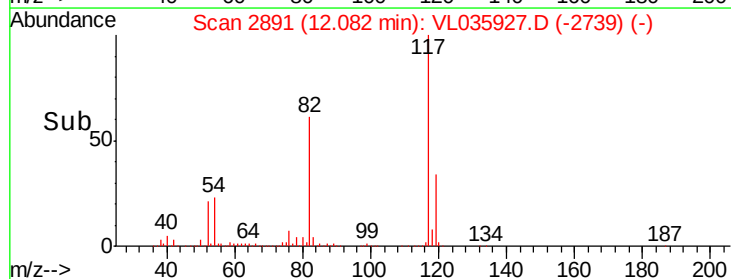
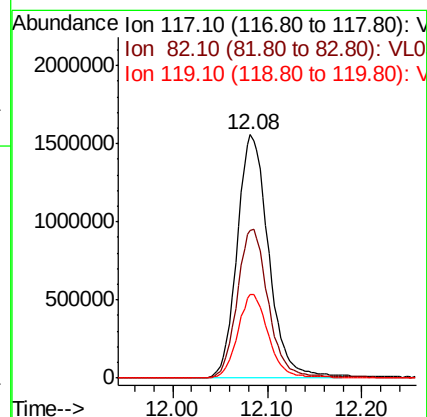
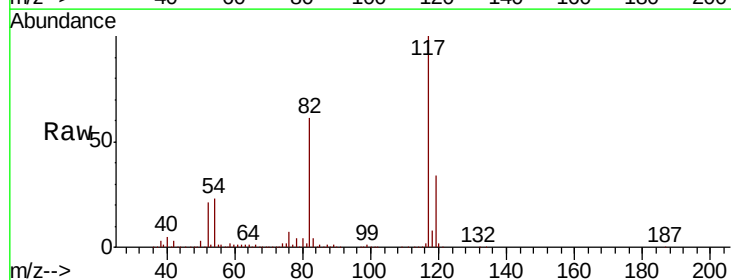
Tgt Ion: 117 Resp: 3606373

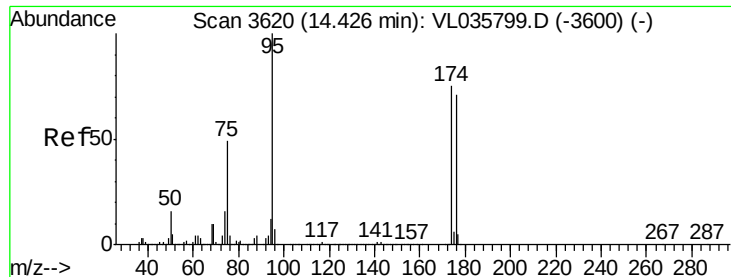
Ion Ratio Lower Upper

117 100

82 61.6 50.6 76.0

119 33.9 52.6 78.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.147 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL035927.D

Acq: 12 Nov 2020 23:57

Instrument :

MSVOA_L

ClientSampleId :

LA-2DL

Tot Ion: 95 Resp: 2599856

Ion Ratio Lower Upper

95 100

174 73.6 59.8 89.6

175 5.2 4.3 6.5

