

Data File : VL034795.D
Acq On : 5 Mar 2020 14:30
Operator : SY/AP
Sample : L1704-03DL2 20X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-3-4DL

Quant Time: Mar 06 03:42:43 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1016371	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.17	114	2071757	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.10	117	2082851	10.00	ppbv	-0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 1719860 9.90 ppbv -0.04
Spiked Amount 10.000 Range 65 - 135 Recovery = 99.00%

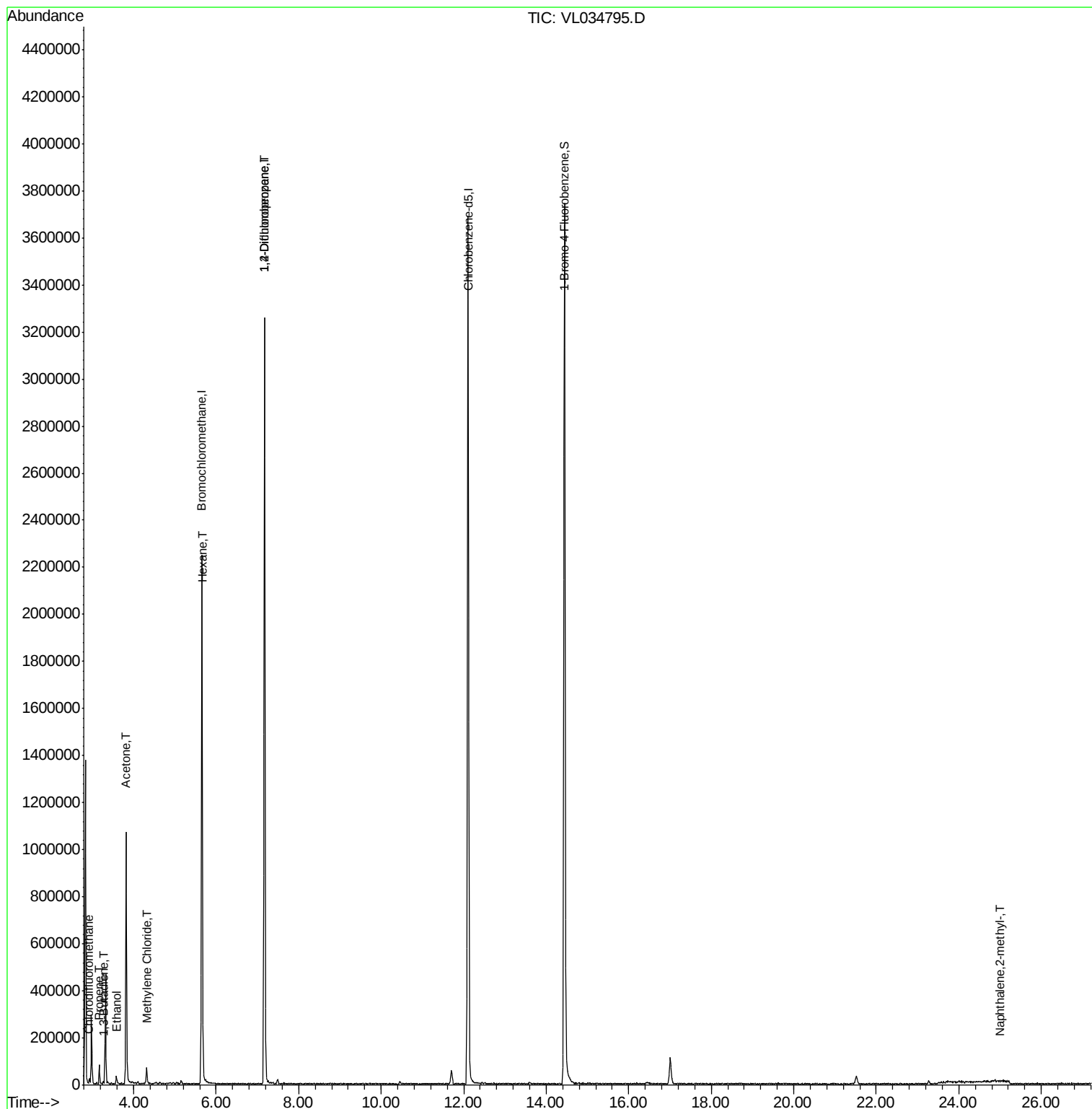
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.92	51	13846	0.120	ppbv #	68
9) Propene	3.17	41	17944	0.394	ppbv	90
13) Ethanol	3.57	45	9480	0.607	ppbv #	1
15) Acetone	3.82	43	1085312	8.917	ppbv	98
16) 1,3-Butadiene	3.26	39	2272	0.041	ppbv #	9
20) Methylene Chloride	4.32	84	20893	0.481	ppbv #	84
26) Hexane	5.67	57	3388	0.037	ppbv #	42
39) 1,2-Dichloropropane	7.17	63	613248	8.584	ppbv #	24
80) Naphthalene,2-methyl-	24.99	142	1696	0.036	ppbv #	75

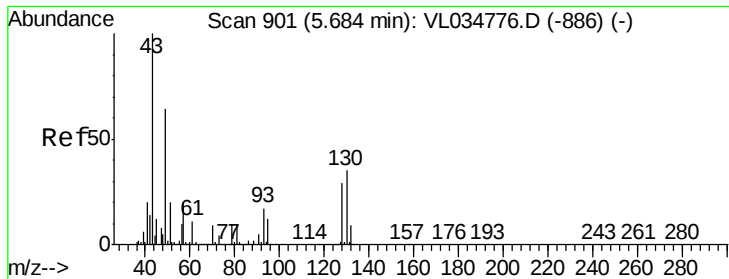
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.04 min

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MSVOA_L

ClientSampleId :

IA-3-4DL

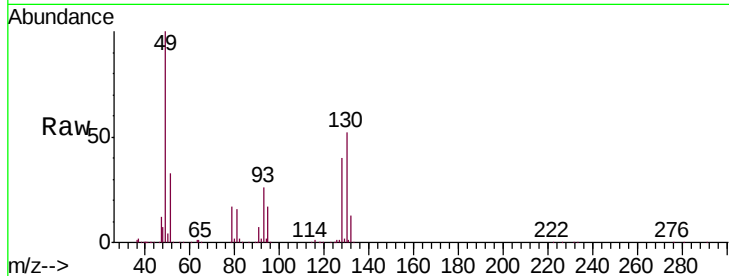
Tgt Ion: 49 Resp: 1016371

Ion Ratio Lower Upper

49 100

128 44.3 21.6 64.6

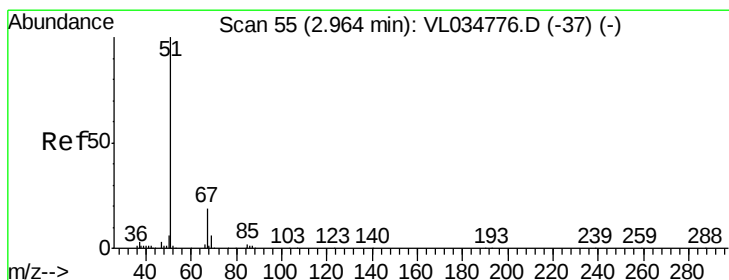
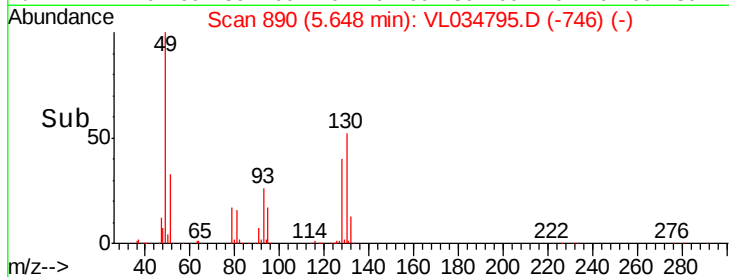
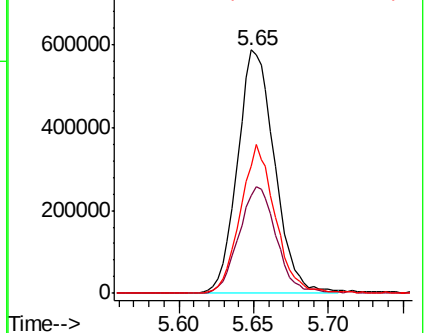
130 57.7 27.4 82.2



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



#3

Chlorodifluoromethane

Concen: 0.120 ppbv

RT: 2.92 min Scan# 41

Delta R.T. -0.05 min

Lab File: VL034795.D

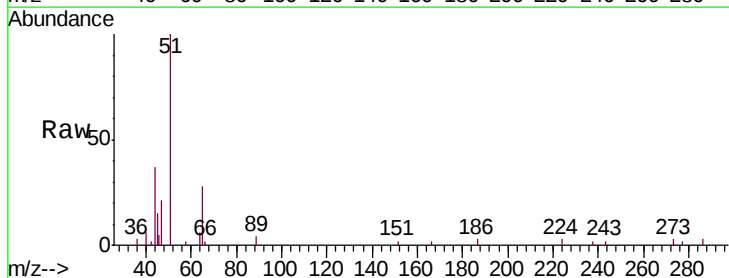
Acq: 5 Mar 2020 14:30

Tgt Ion: 51 Resp: 13846

Ion Ratio Lower Upper

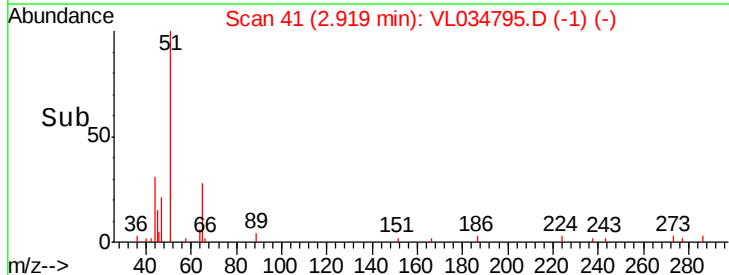
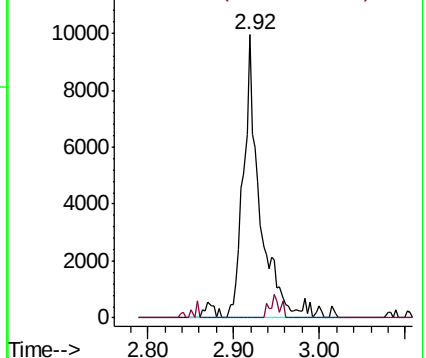
51 100

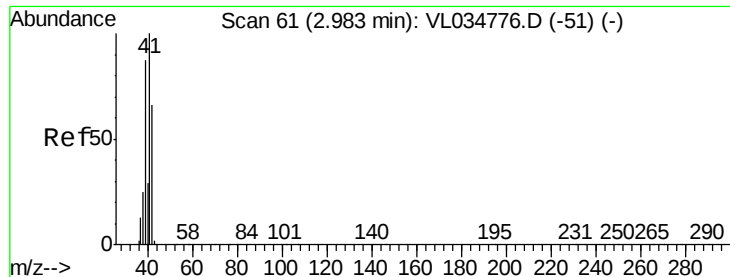
67 4.7 15.3 22.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.394 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.18 min

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ClientSampleId :

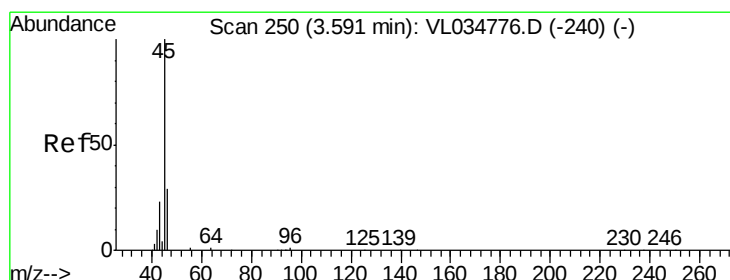
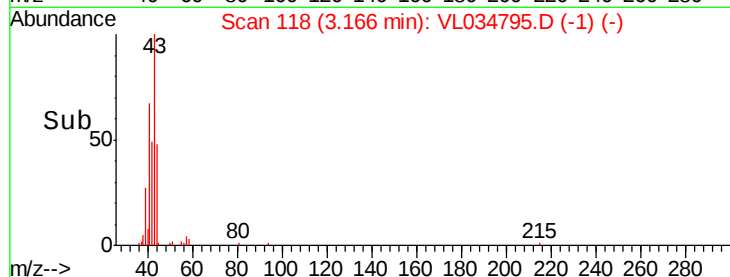
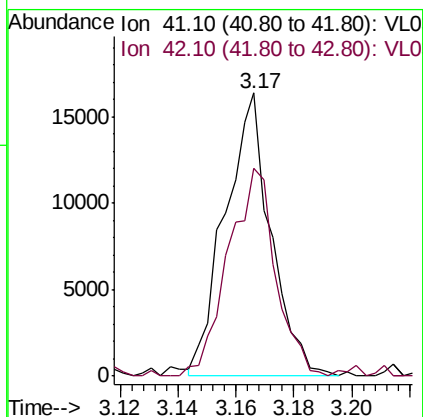
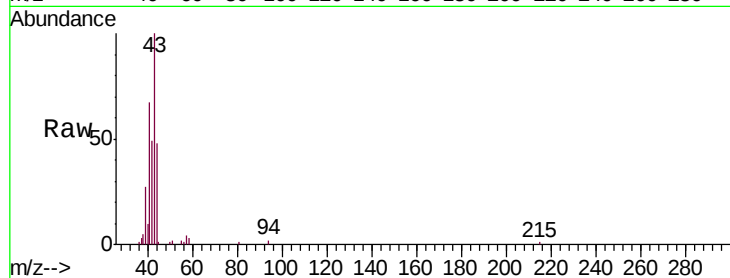
IA-3-4DL

Tgt Ion: 41 Resp: 17944

Ion Ratio Lower Upper

41 100

42 77.8 55.6 83.4



#13

Ethanol

Concen: 0.607 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.02 min

Lab File: VL034795.D

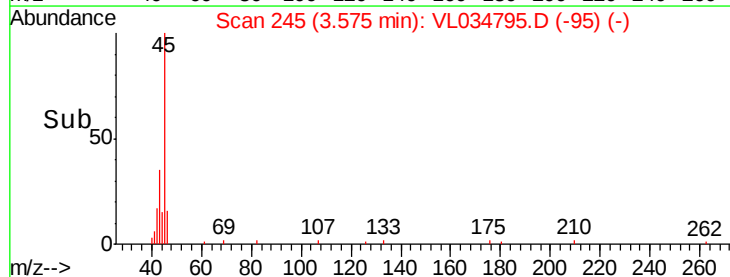
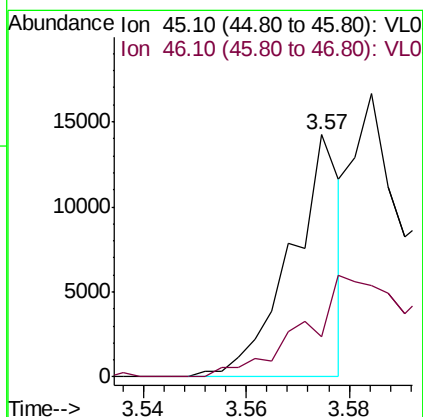
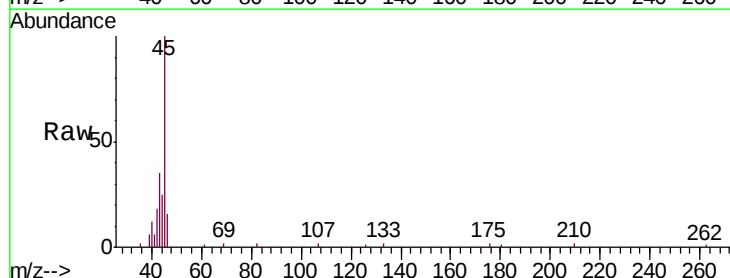
Acq: 5 Mar 2020 14:30

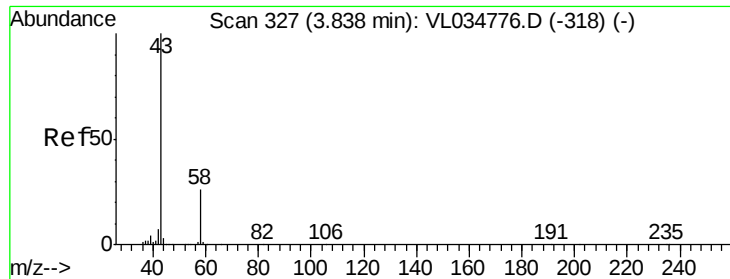
Tgt Ion: 45 Resp: 9480

Ion Ratio Lower Upper

45 100

46 113.3 14.7 58.9#





#15

Acetone

Concen: 8.917 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.02 min

Lab File: VL034795.D

Acq: 5 Mar 2020 14:30

Instrument :

MSVOA_L

ClientSampleId :

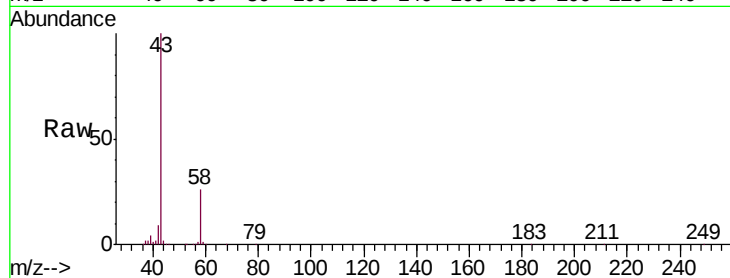
IA-3-4DL

Tgt Ion: 43 Resp: 1085312

Ion Ratio Lower Upper

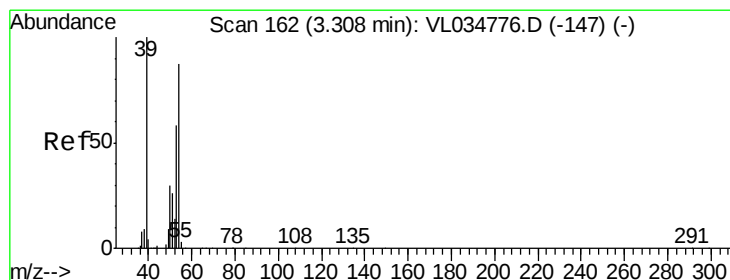
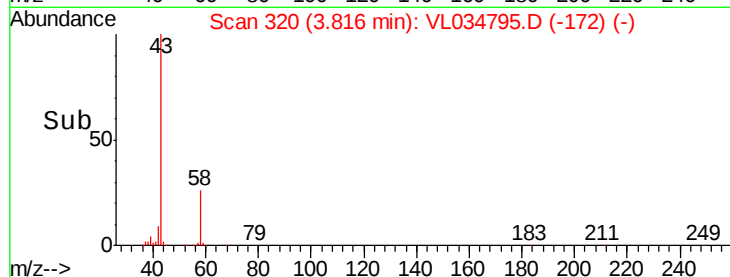
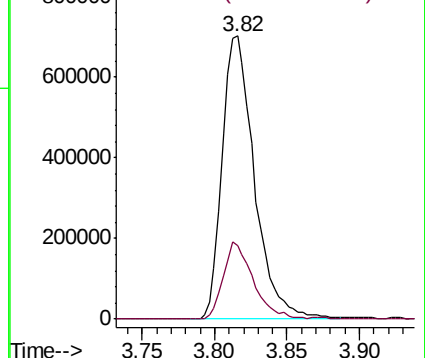
43 100

58 25.5 21.0 31.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.041 ppbv

RT: 3.26 min Scan# 147

Delta R.T. -0.05 min

Lab File: VL034795.D

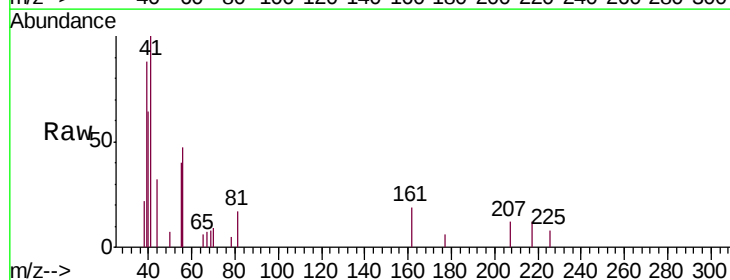
Acq: 5 Mar 2020 14:30

Tgt Ion: 39 Resp: 2272

Ion Ratio Lower Upper

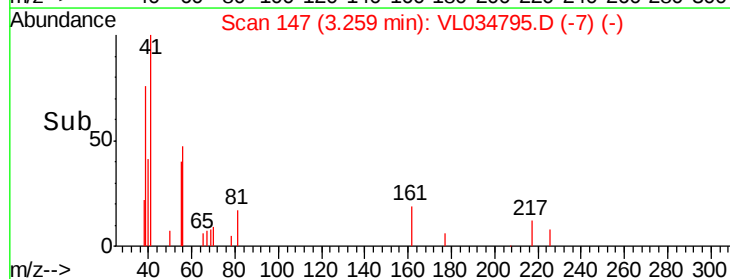
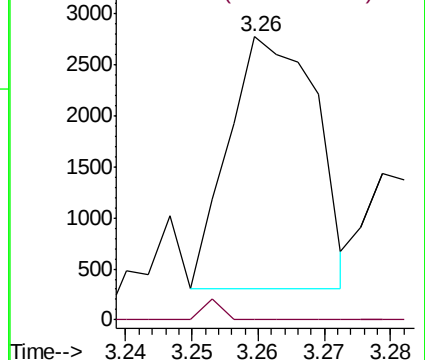
39 100

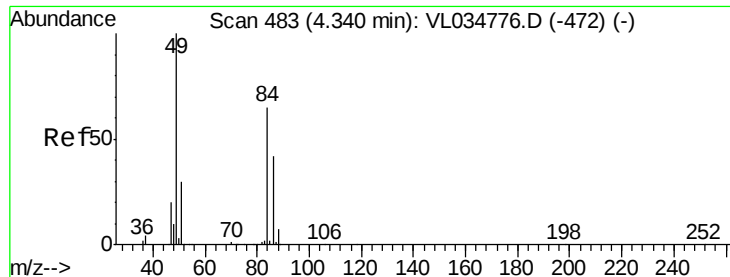
54 0.0 64.2 96.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

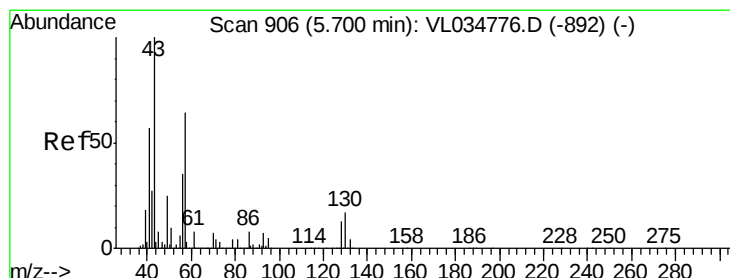
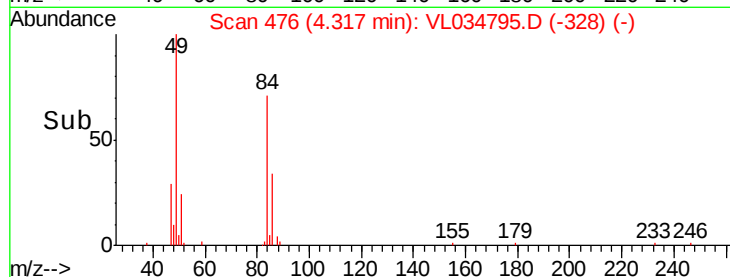
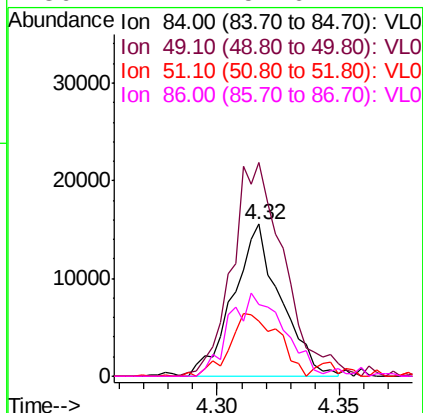
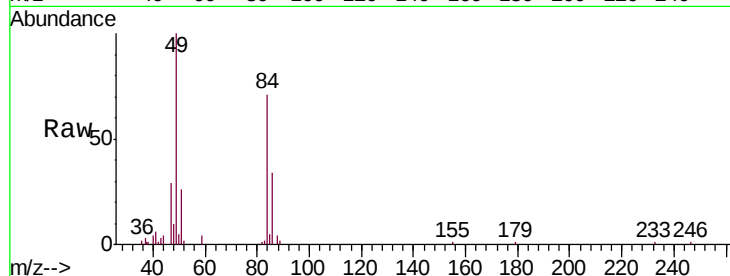




#20
Methylene Chloride
Concen: 0.481 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.02 min
Lab File: VL034795.D
Acq: 5 Mar 2020 14:30

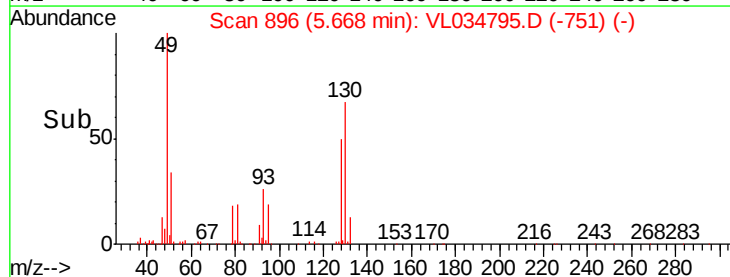
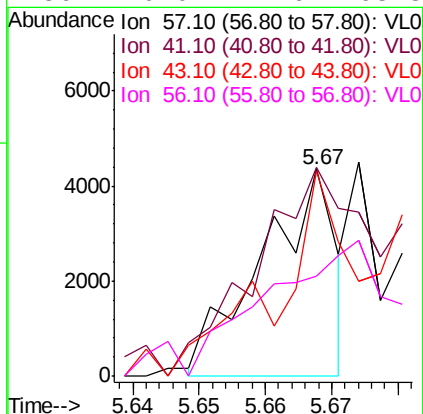
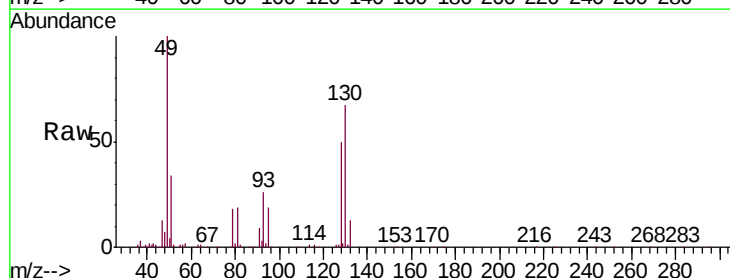
Instrument :
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IA-3-4DL

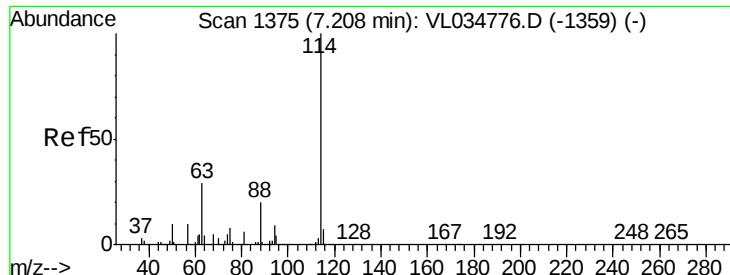
Tgt Ion: 84 Resp: 20893
Ion Ratio Lower Upper
84 100
49 137.9 123.2 184.8
51 34.4 37.4 56.2#
86 47.4 51.6 77.4#



#26
Hexane
Concen: 0.037 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.03 min
Lab File: VL034795.D
Acq: 5 Mar 2020 14:30

Tgt Ion: 57 Resp: 3388
Ion Ratio Lower Upper
57 100
41 211.8 72.0 108.0#
43 183.0 179.1 268.7
56 0.0 42.6 63.8#

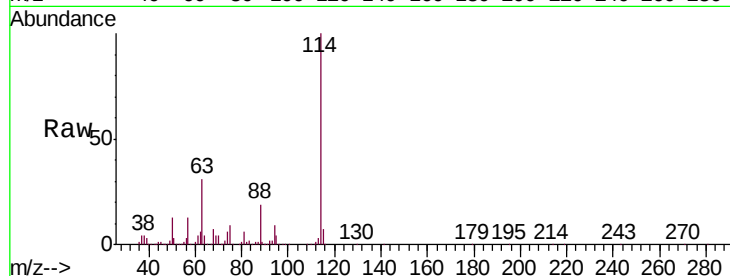




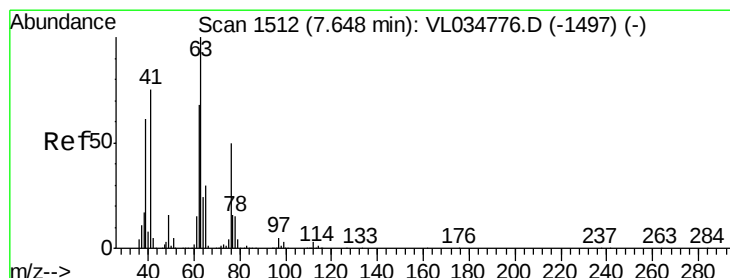
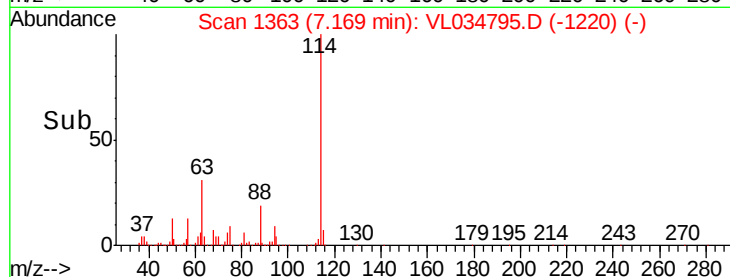
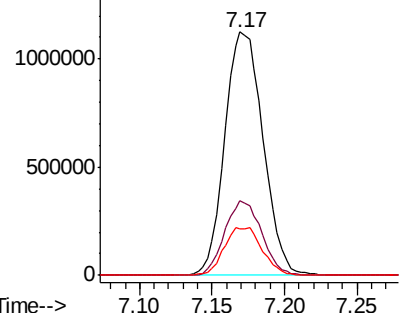
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.04 min
 Lab File: VL034795.D
 Acq: 5 Mar 2020 14:30

Instrument :
 MSVOA_L
 ClientSampled :
 IA-3-4DL

Tgt Ion: 114 Resp: 2071757
 Ion Ratio Lower Upper
 114 100
 63 29.7 23.6 35.4
 88 19.5 15.8 23.8

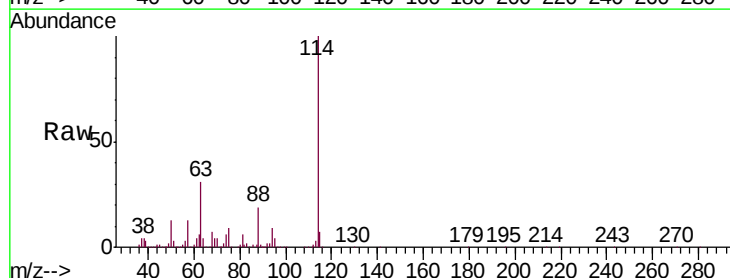


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

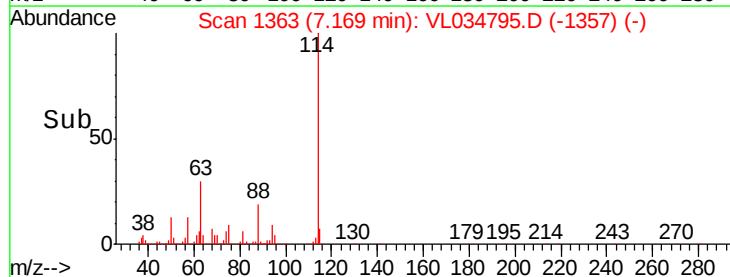
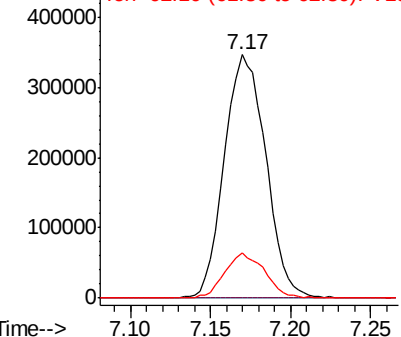


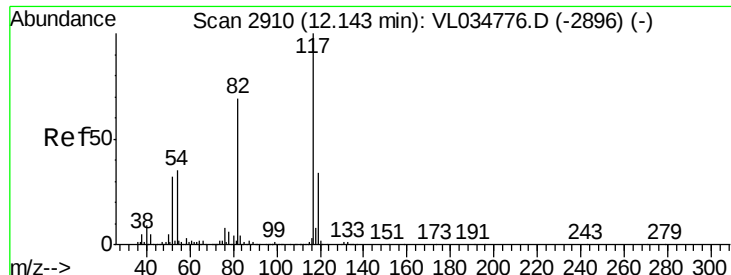
#39
 1,2-Dichloropropane
 Concen: 8.584 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.48 min
 Lab File: VL034795.D
 Acq: 5 Mar 2020 14:30

Tgt Ion: 63 Resp: 613248
 Ion Ratio Lower Upper
 63 100
 41 0.1 60.3 90.5#
 62 18.4 54.5 81.7#



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

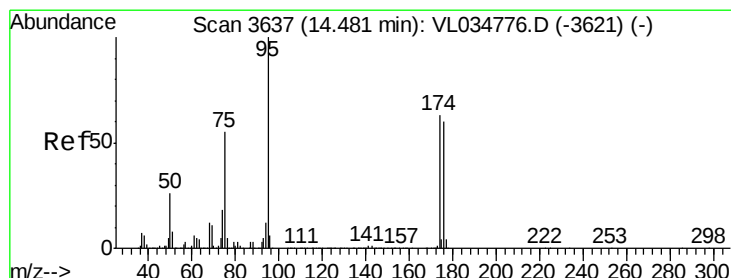
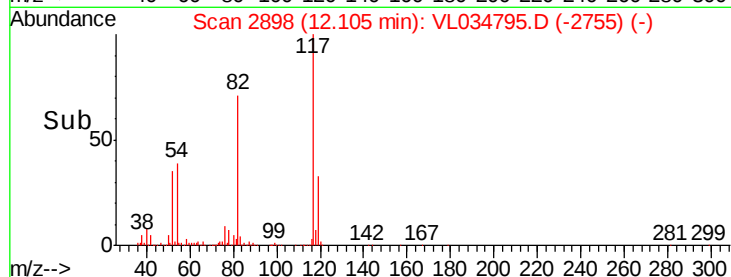
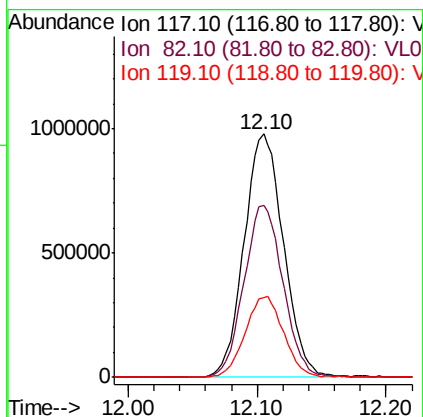
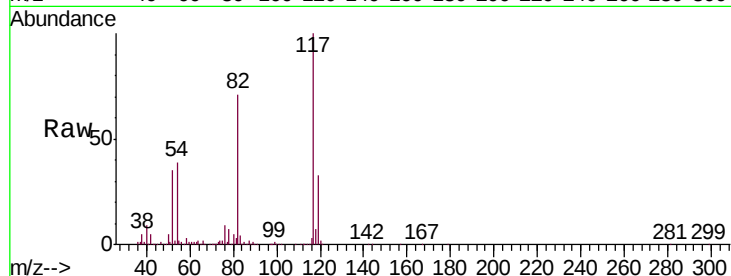




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.04 min
Lab File: VL034795.D
Acq: 5 Mar 2020 14:30

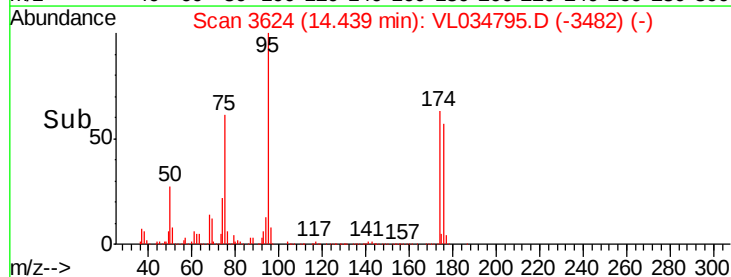
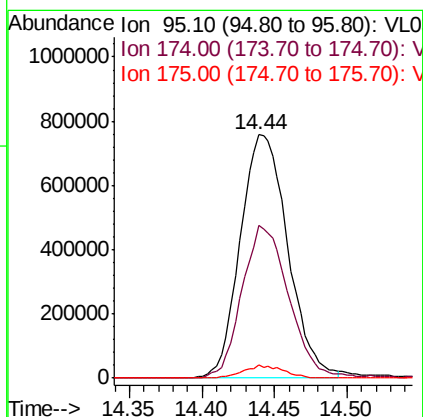
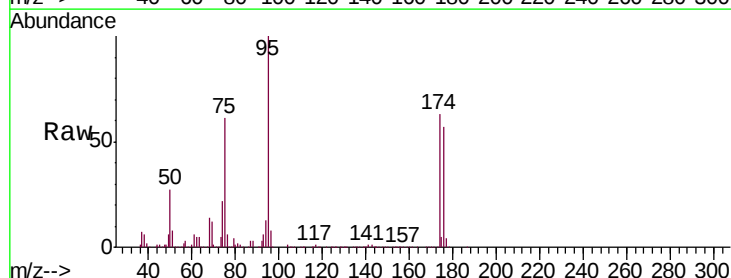
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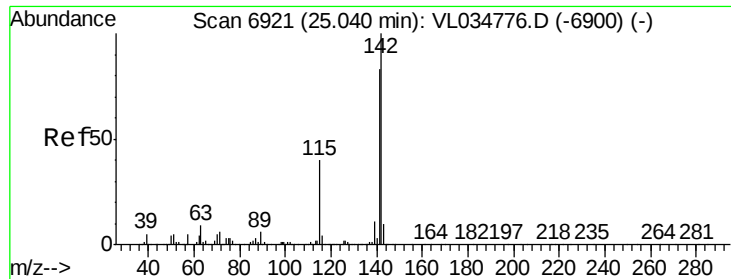
Tgt Ion: 117 Resp: 2082851
Ion Ratio Lower Upper
117 100
82 70.4 53.9 80.9
119 32.9 25.0 37.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.903 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. -0.04 min
Lab File: VL034795.D
Acq: 5 Mar 2020 14:30

Tgt Ion: 95 Resp: 1719860
Ion Ratio Lower Upper
95 100
174 63.1 50.6 76.0
175 4.6 3.8 5.6





#80

Naphthalene, 2-methyl-

Concen: 0.036 ppbv

RT: 24.99 min Scan# 6907

Delta R.T. -0.05 min

Lab File: VL034795.D

Acq: 5 Mar 2020 14:30

Instrument :

MSVOA_L

ClientSampleId :

IA-3-4DL

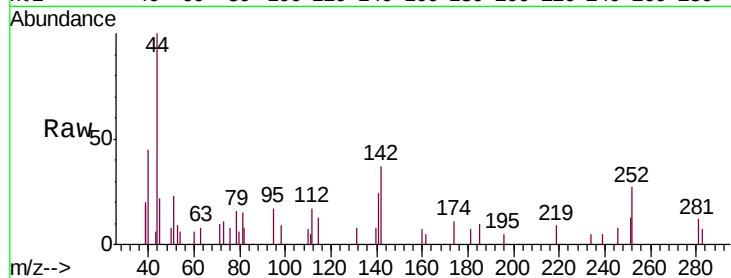
Tgt Ion:142 Resp: 1696

Ion Ratio Lower Upper

142 100

141 58.6 67.7 101.5#

115 28.5 30.7 46.1#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

