

Data File : VL033799.D
Acq On : 28 May 2019 10:28
Operator : SY/AP
Sample : VL0528ABL01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABL01

Quant Time: May 29 04:33:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	899051	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2141248	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2090429	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1761549 10.39 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.90%

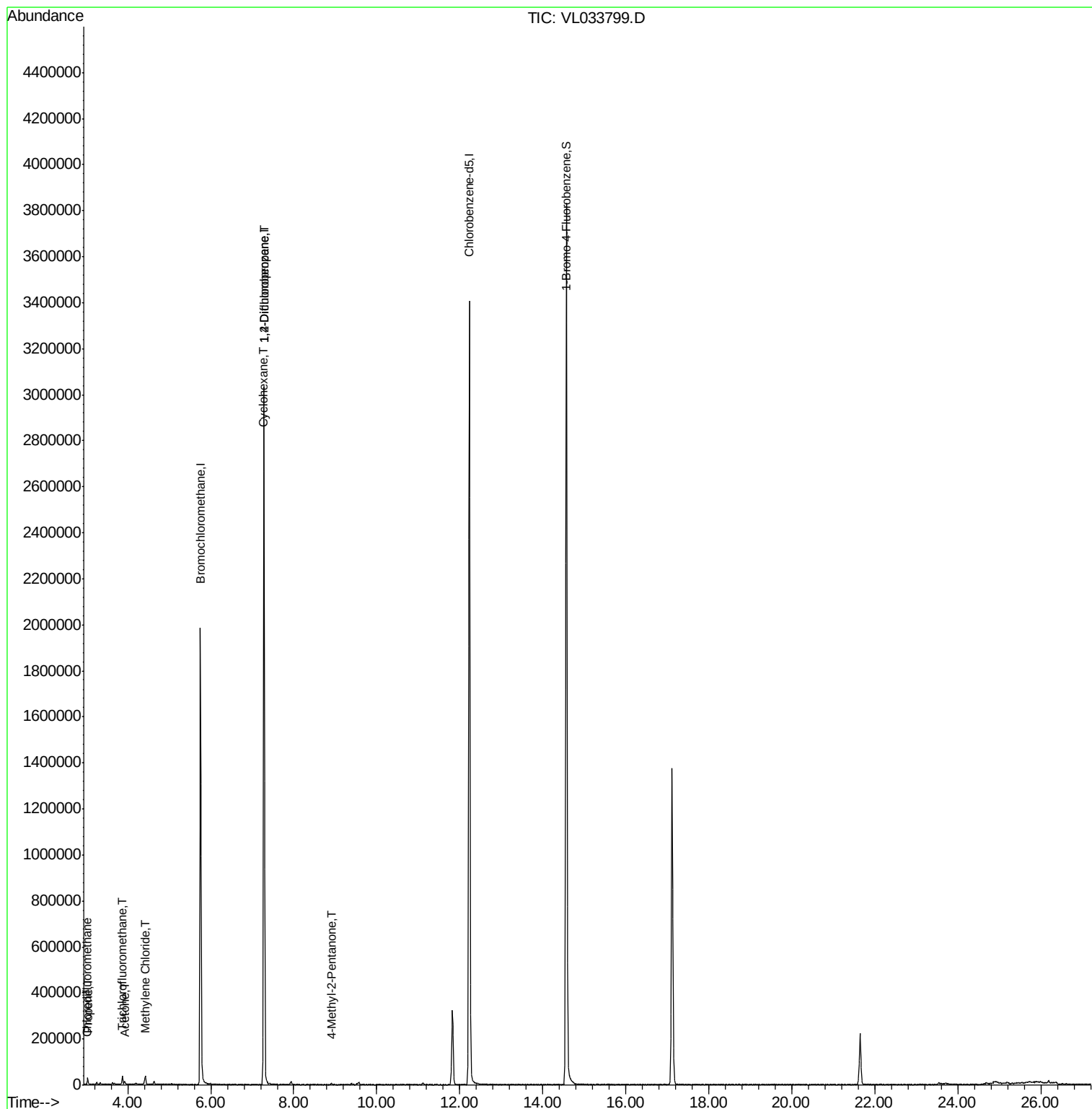
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	1910	0.019	ppbv	97
9) Propene	3.04	41	860	0.020	ppbv #	56
11) Trichlorofluoromethane	3.87	101	4040	0.022	ppbv	95
15) Acetone	3.92	43	10439	0.084	ppbv #	80
20) Methylene Chloride	4.40	84	2517	0.052	ppbv #	76
30) Cyclohexane	7.26	84	4583	0.058	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	549196	7.563	ppbv #	23
50) 4-Methyl-2-Pentanone	8.90	43	2239	0.011	ppbv #	39

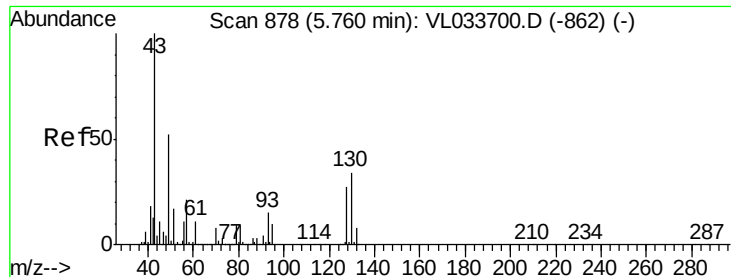
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

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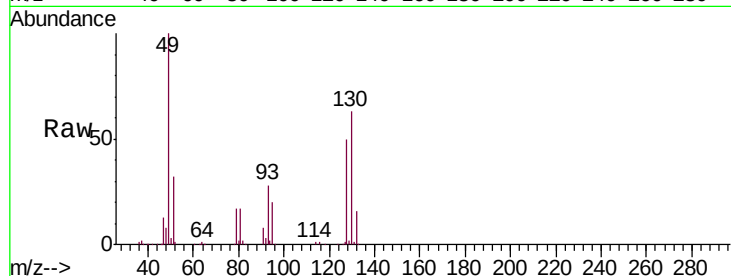
Tgt Ion: 49 Resp: 899051

Ion Ratio Lower Upper

49 100

128 50.3 25.2 75.6

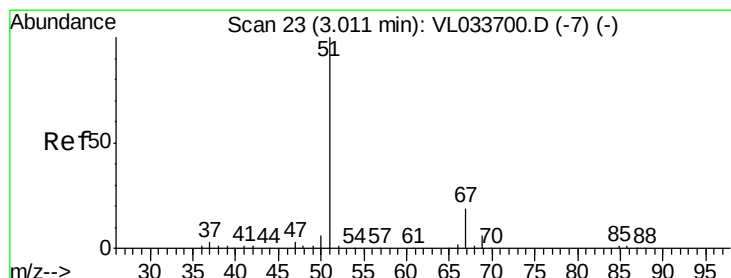
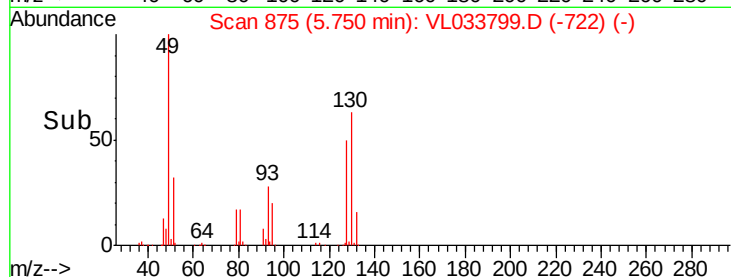
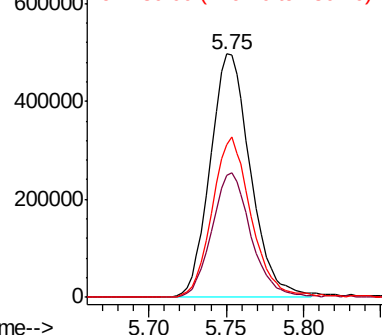
130 64.7 32.5 97.5



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: 0.019 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033799.D

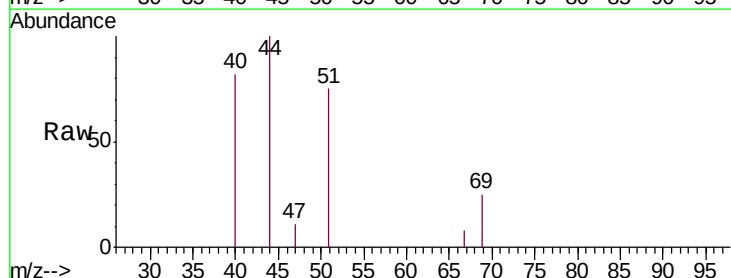
Acq: 28 May 2019 10:28

Tgt Ion: 51 Resp: 1910

Ion Ratio Lower Upper

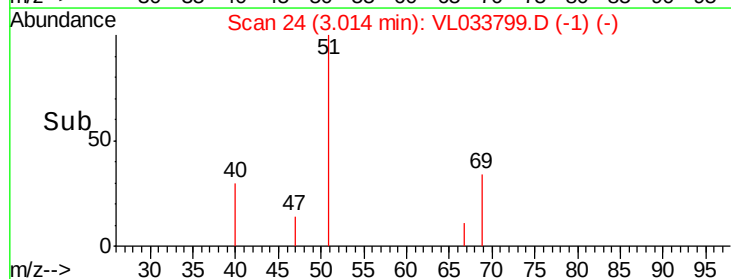
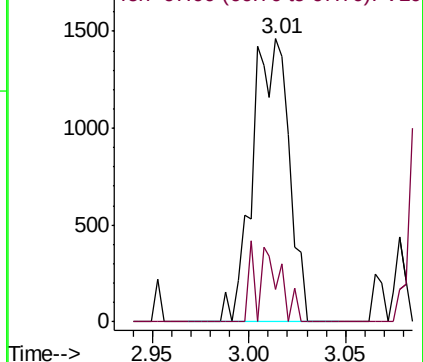
51 100

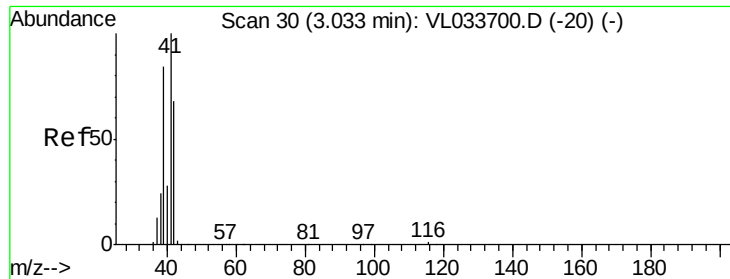
67 18.1 15.6 23.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.020 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033799.D

Acq: 28 May 2019 10:28

Instrument :

MSVOA_L

ClientSampleId :

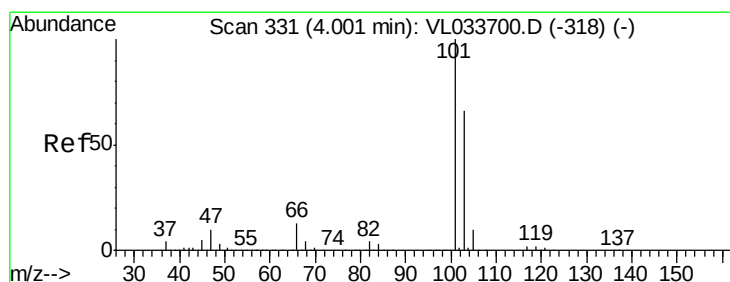
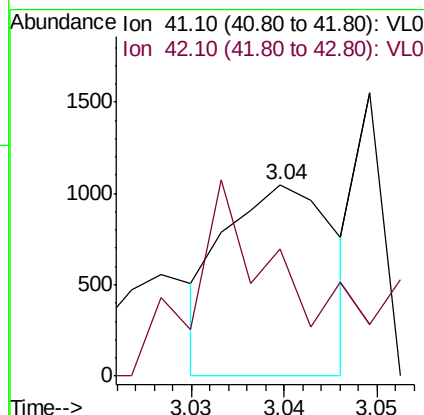
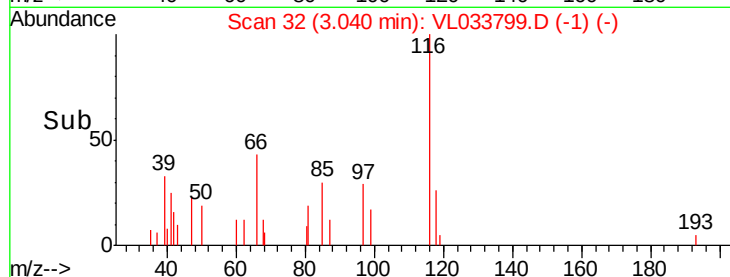
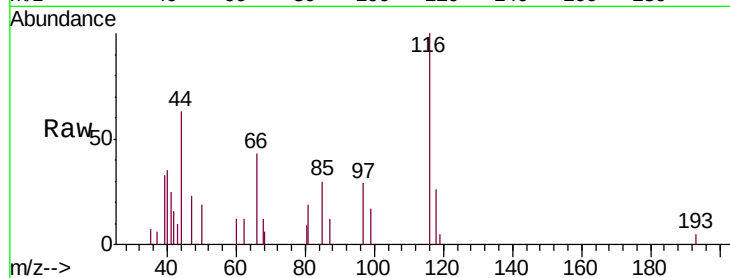
VL0528ABL01

Tgt Ion: 41 Resp: 860

Ion Ratio Lower Upper

41 100

42 106.0 56.1 84.1#



#11

Trichlorofluoromethane

Concen: 0.022 ppbv

RT: 3.87 min Scan# 291

Delta R.T. -0.13 min

Lab File: VL033799.D

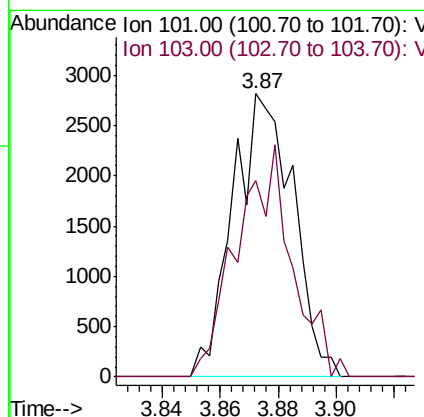
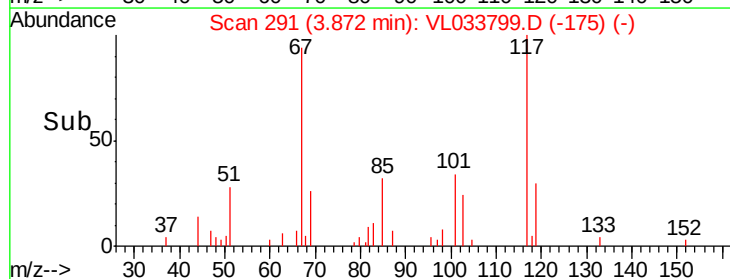
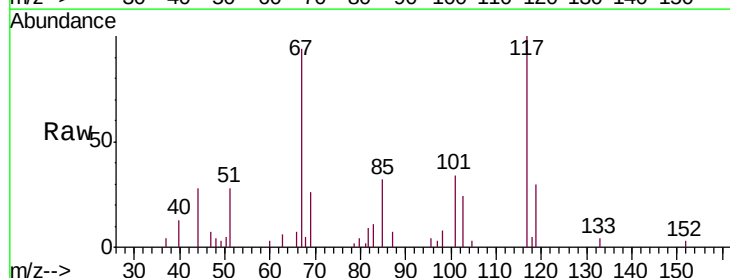
Acq: 28 May 2019 10:28

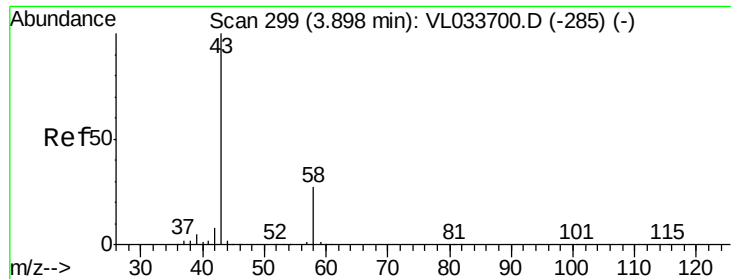
Tgt Ion: 101 Resp: 4040

Ion Ratio Lower Upper

101 100

103 69.3 52.6 78.8





#15

Acetone

Concen: 0.084 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.03 min

Lab File: VL033799.D

Acq: 28 May 2019 10:28

Instrument :

MSVOA_L

ClientSampleId :

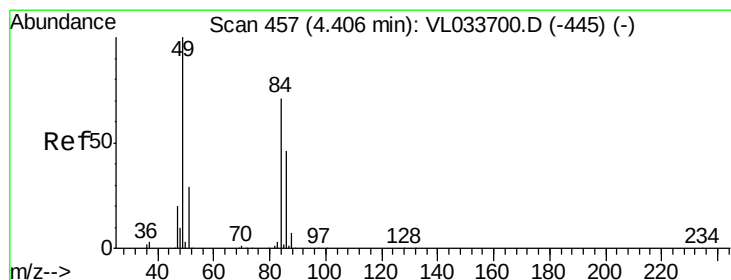
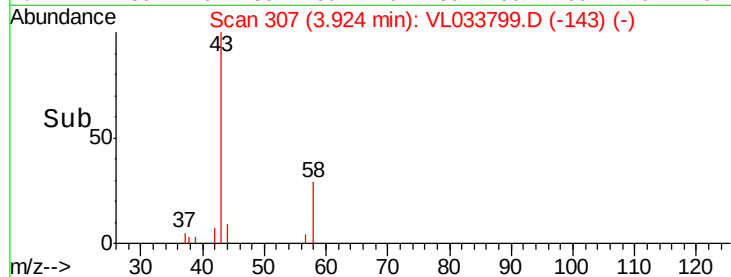
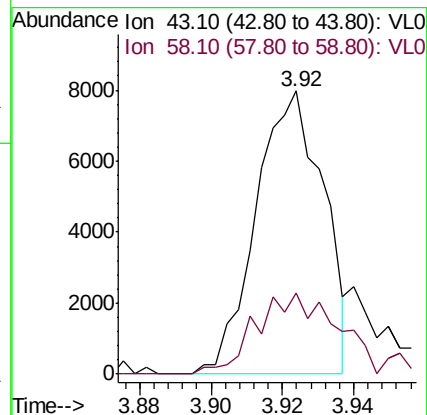
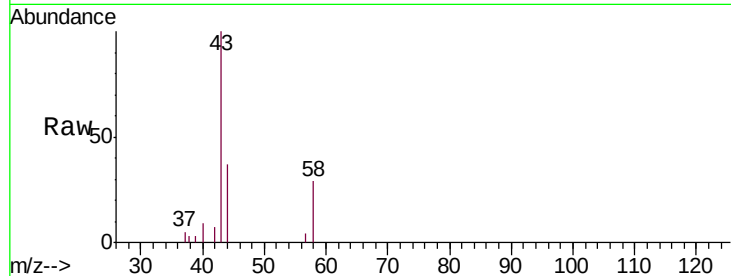
VL0528ABL01

Tgt Ion: 43 Resp: 10439

Ion Ratio Lower Upper

43 100

58 36.8 21.3 31.9#



#20

Methylene Chloride

Concen: 0.052 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033799.D

Acq: 28 May 2019 10:28

Tgt Ion: 84 Resp: 2517

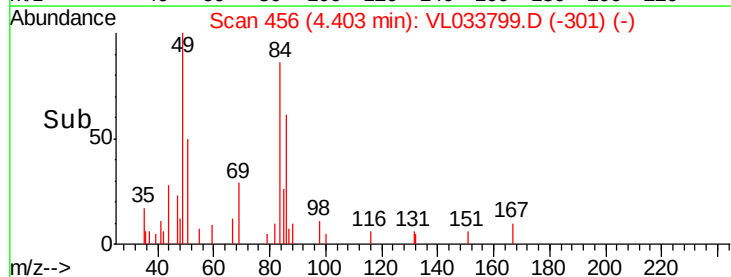
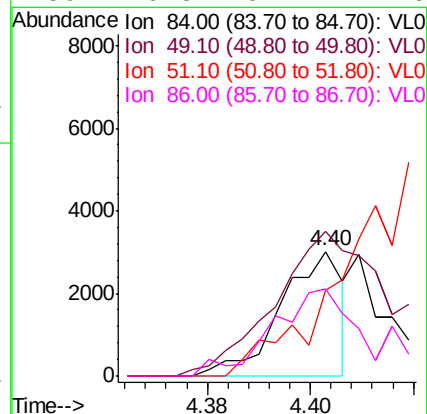
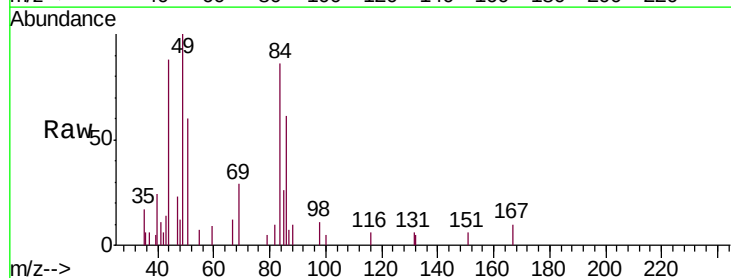
Ion Ratio Lower Upper

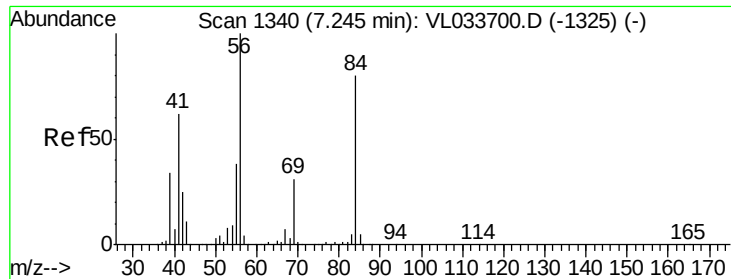
84 100

49 110.4 112.8 169.2#

51 69.4 33.4 50.0#

86 70.3 51.7 77.5

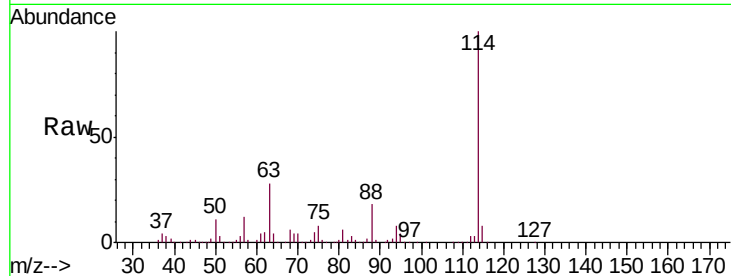




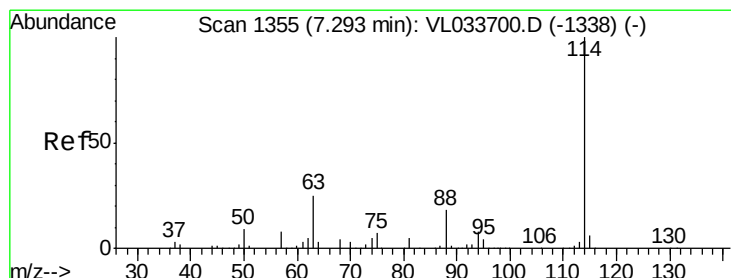
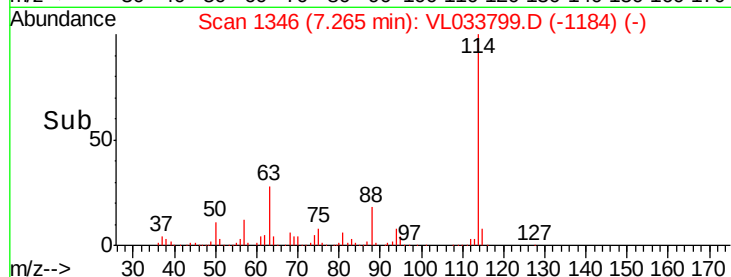
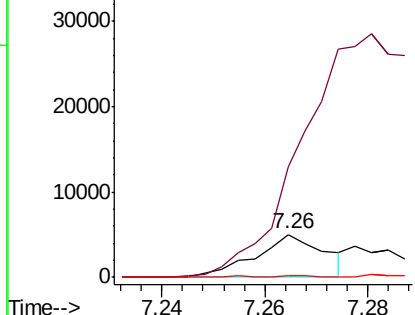
#30
Cyclohexane
Concen: 0.058 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. 0.02 min
Lab File: VL033799.D
Acq: 28 May 2019 10:28

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABL01

Tgt Ion: 84 Resp: 4583
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 2.1 66.0 99.0#

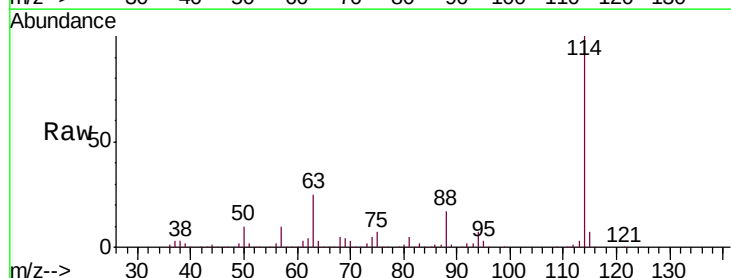


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

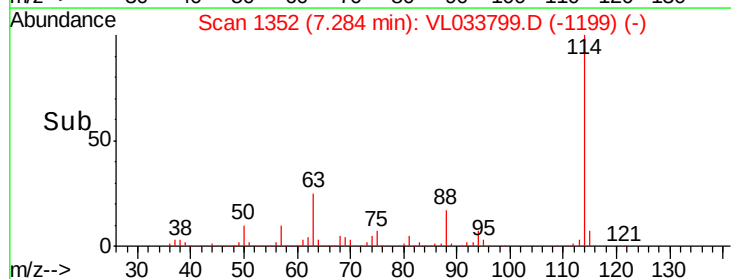
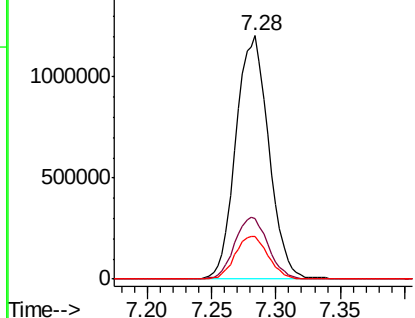


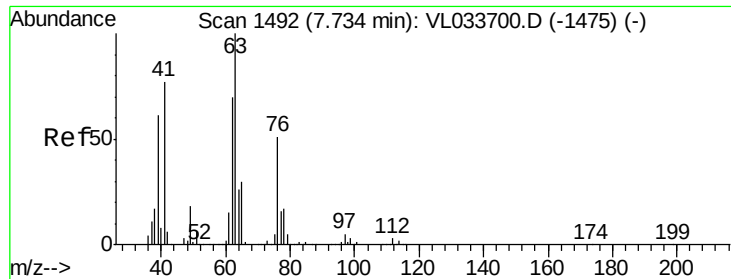
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033799.D
Acq: 28 May 2019 10:28

Tgt Ion: 114 Resp: 2141248
Ion Ratio Lower Upper
114 100
63 25.8 20.9 31.3
88 17.8 14.3 21.5



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





#39

1,2-Dichloropropane

Concen: 7.563 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.45 min

Lab File: VL033799.D

Acq: 28 May 2019 10:28

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABL01

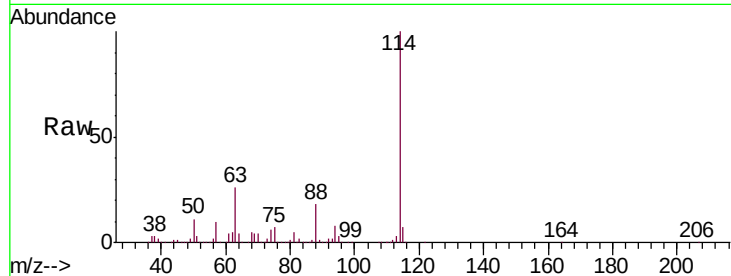
Tgt Ion: 63 Resp: 549196

Ion Ratio Lower Upper

63 100

41 0.1 61.5 92.3#

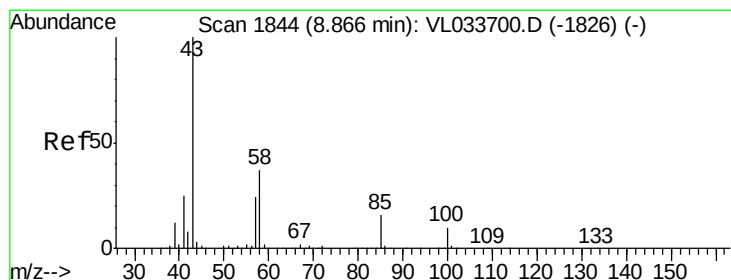
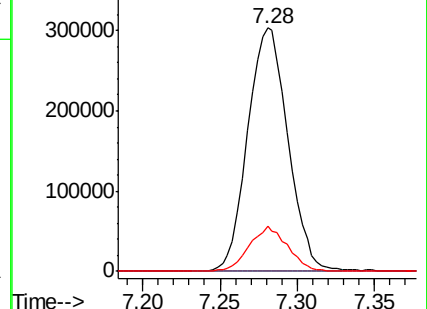
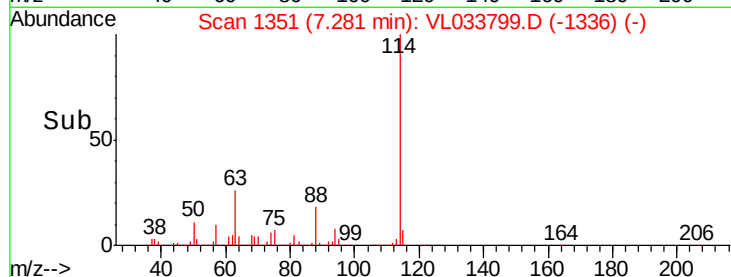
62 18.3 56.2 84.4#



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



#50

4-Methyl-2-Pentanone

Concen: 0.011 ppbv

RT: 8.90 min Scan# 1854

Delta R.T. 0.03 min

Lab File: VL033799.D

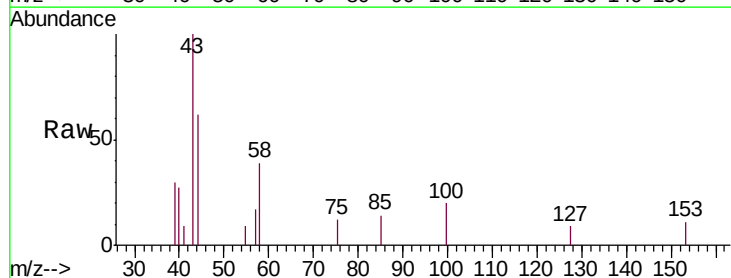
Acq: 28 May 2019 10:28

Tgt Ion: 43 Resp: 2239

Ion Ratio Lower Upper

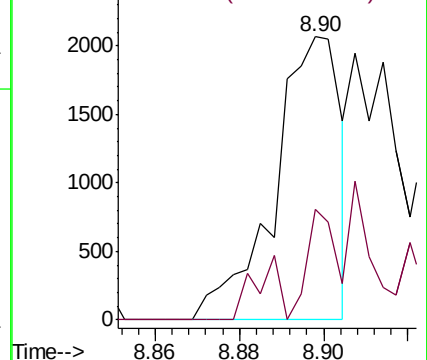
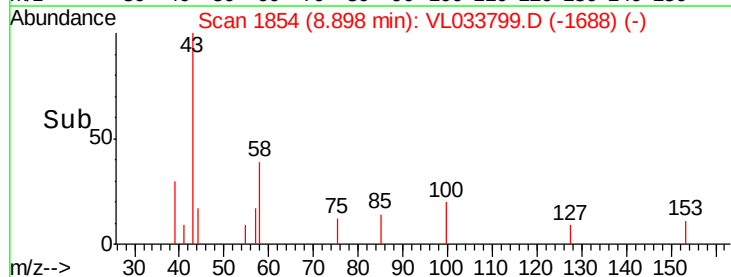
43 100

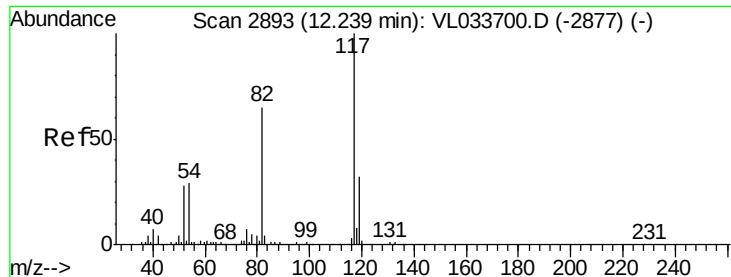
58 0.0 28.6 43.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

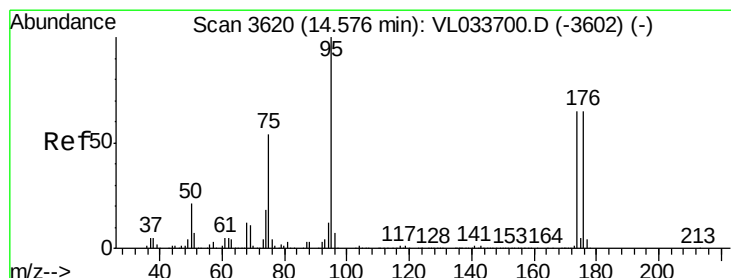
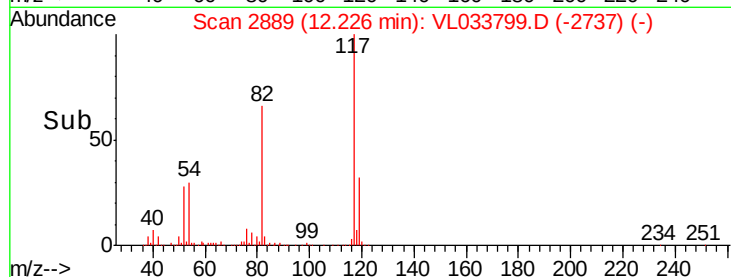
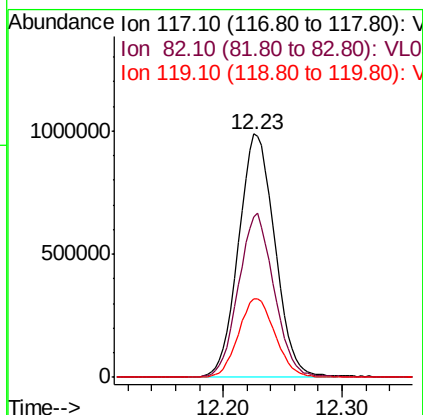
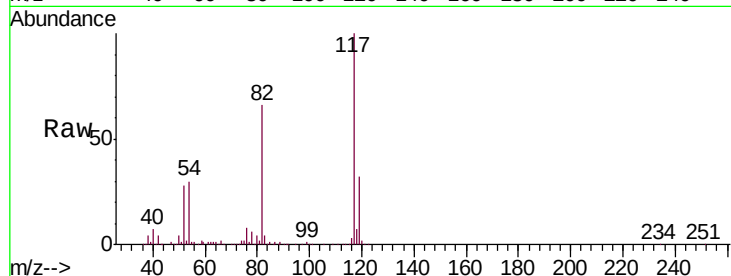




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL033799.D
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Tgt Ion:117 Resp: 2090429
Ion Ratio Lower Upper
117 100
82 66.5 49.4 74.0
119 32.8 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.395 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033799.D
Acq: 28 May 2019 10:28

Tgt Ion: 95 Resp: 1761549
Ion Ratio Lower Upper
95 100
174 67.5 53.9 80.9
175 5.0 3.8 5.8

