

Data File : VL033736.D
Acq On : 20 May 2019 23:35
Operator : SY/AP
Sample : CAN 10046
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10046

Quant Time: May 21 01:34:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-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	5.76	49	867789	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1970425	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2041040	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1663815	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

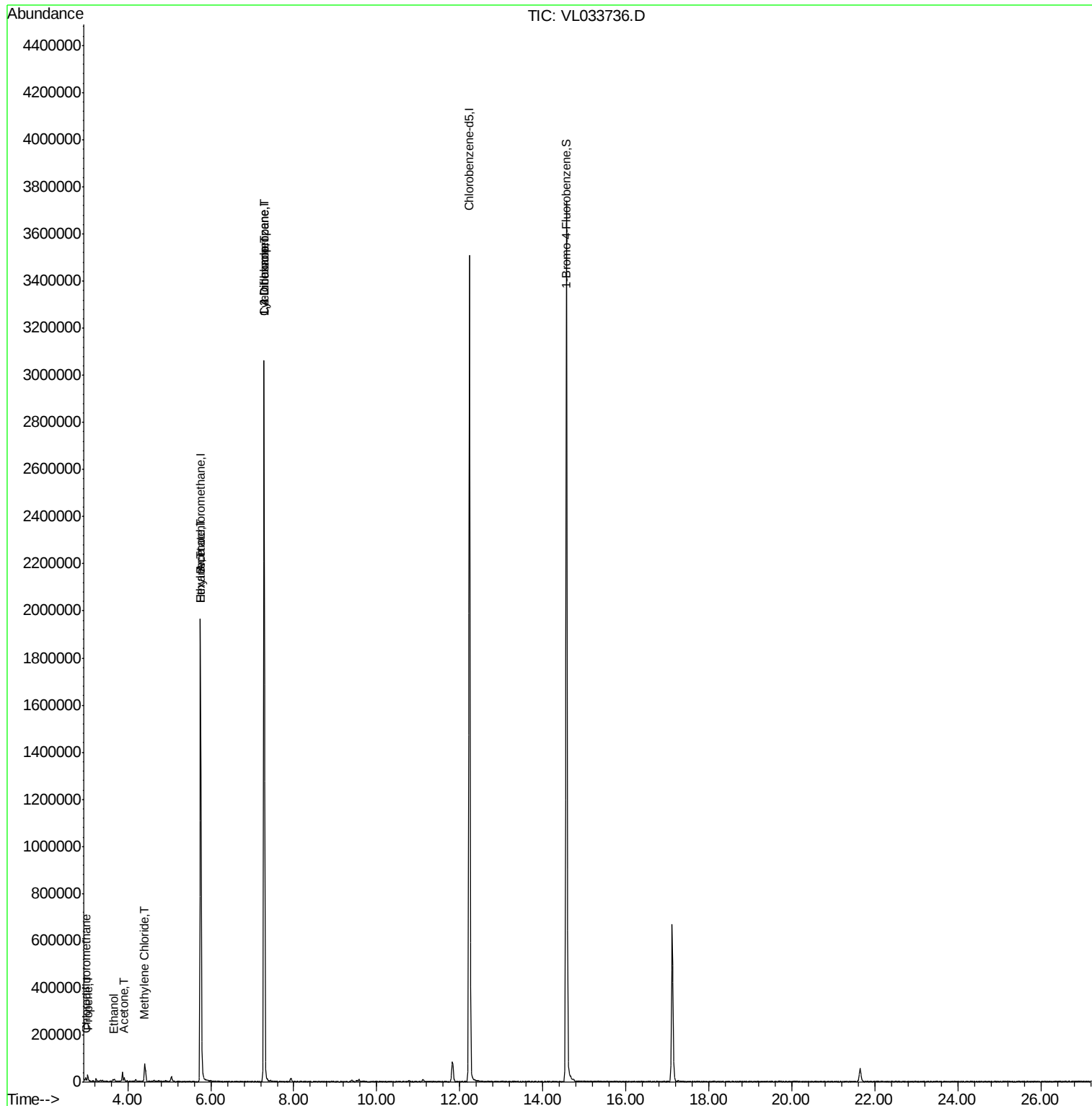
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	9662	0.097	ppbv #	64
9) Propene	3.05	41	1239	0.029	ppbv #	67
13) Ethanol	3.67	45	4503	0.330	ppbv	85
15) Acetone	3.91	43	13844	0.115	ppbv	93
20) Methylene Chloride	4.41	84	25811	0.557	ppbv	90
25) Ethyl Acetate	5.77	43	6422	0.030	ppbv #	81
26) Hexane	5.77	57	9568	0.105	ppbv #	1
30) Cyclohexane	7.27	84	4784	0.063	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	530809	7.943	ppbv #	23

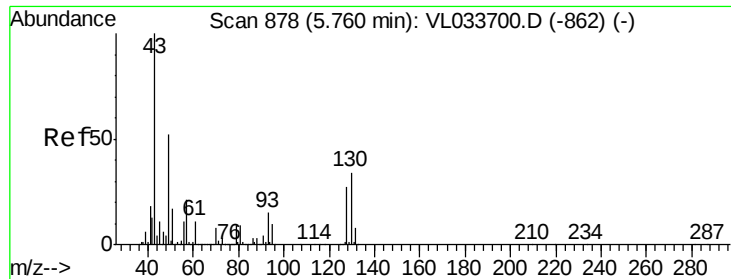
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

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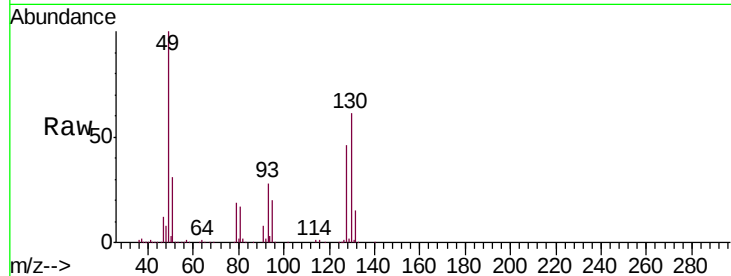
Tgt Ion: 49 Resp: 867789

Ion Ratio Lower Upper

49 100

128 48.7 25.2 75.6

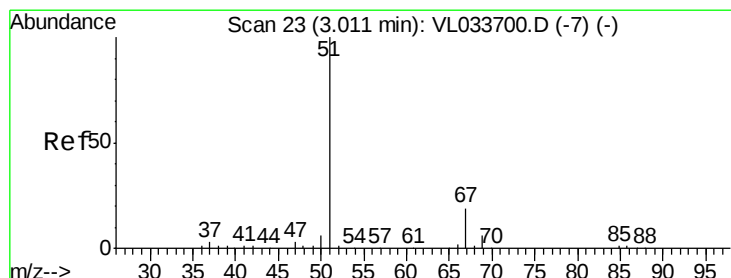
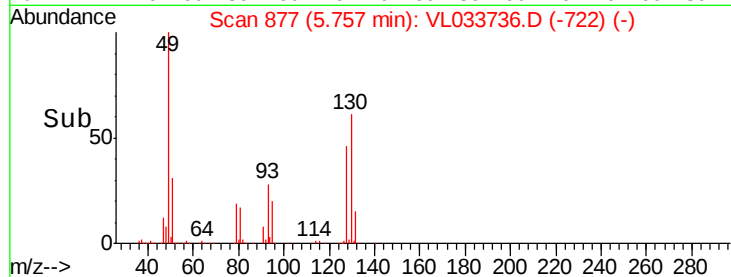
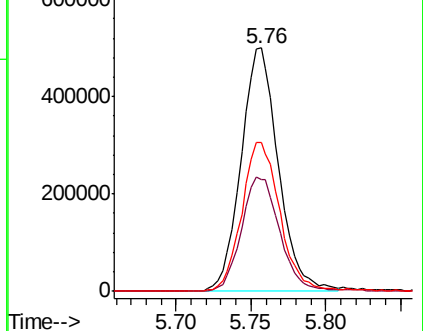
130 63.6 32.5 97.5



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: 0.097 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.02 min

Lab File: VL033736.D

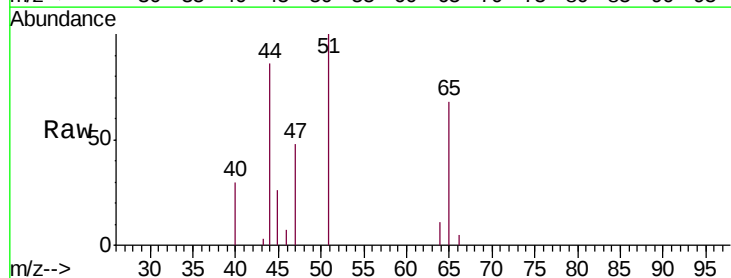
Acq: 20 May 2019 23:35

Tgt Ion: 51 Resp: 9662

Ion Ratio Lower Upper

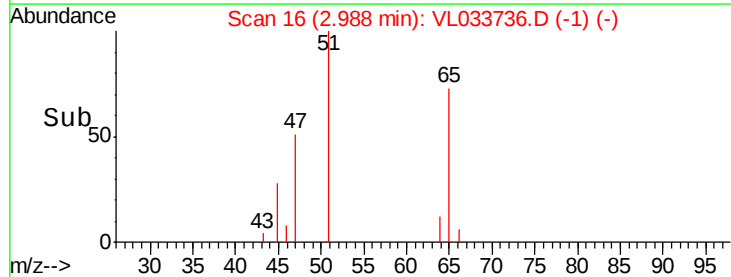
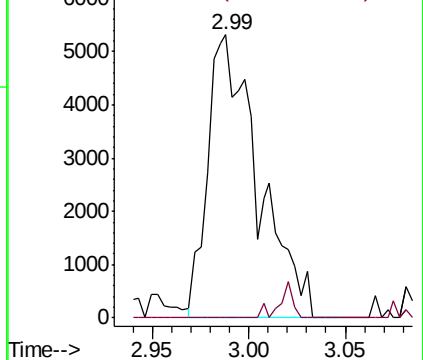
51 100

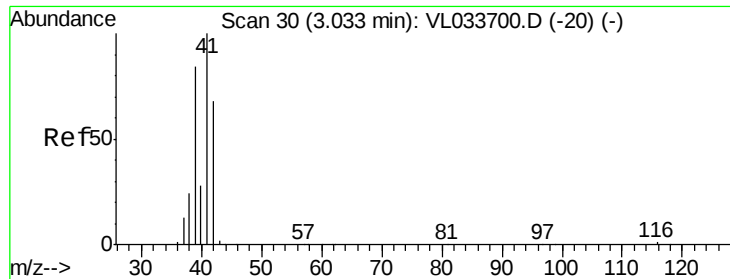
67 3.2 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.029 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

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ClientSampleId :

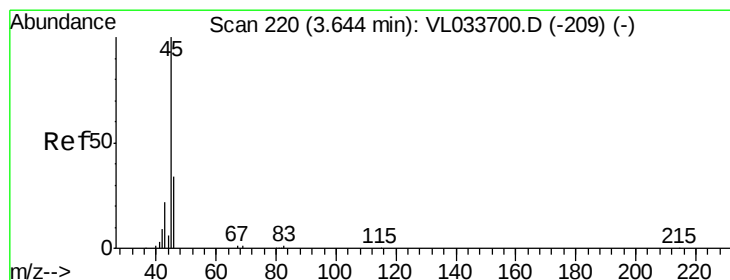
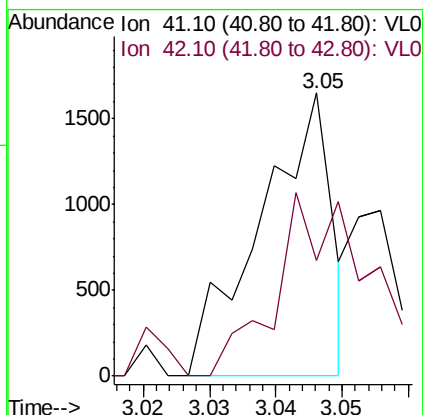
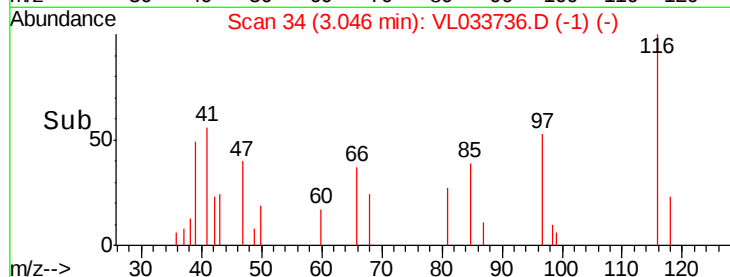
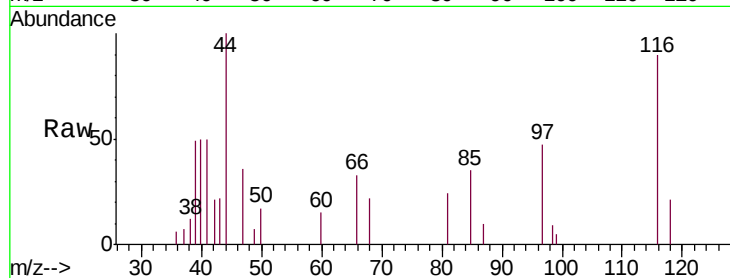
CAN 10046

Tgt Ion: 41 Resp: 1239

Ion Ratio Lower Upper

41 100

42 97.3 56.1 84.1#



#13

Ethanol

Concen: 0.330 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033736.D

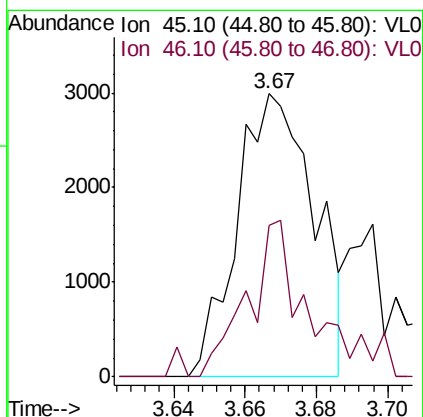
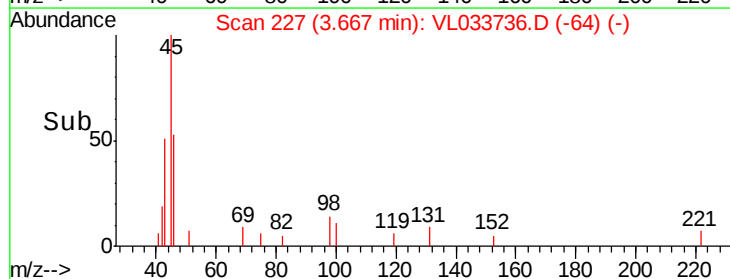
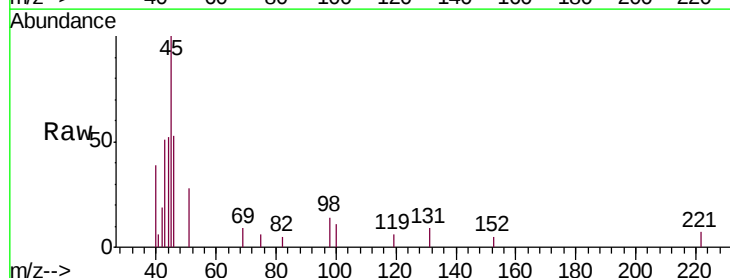
Acq: 20 May 2019 23:35

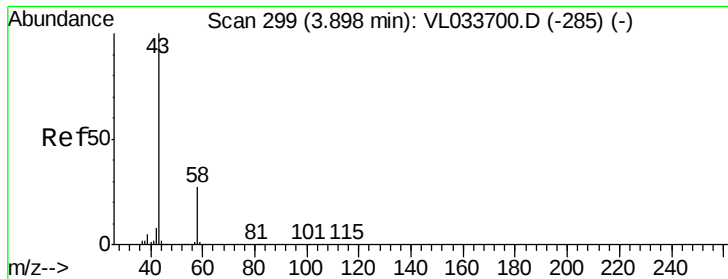
Tgt Ion: 45 Resp: 4503

Ion Ratio Lower Upper

45 100

46 45.8 14.8 59.0





#15

Acetone

Concen: 0.115 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033736.D

Acq: 20 May 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

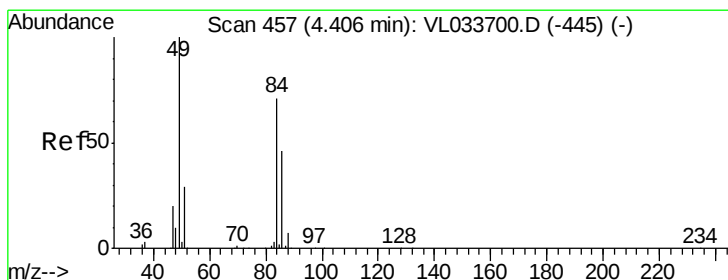
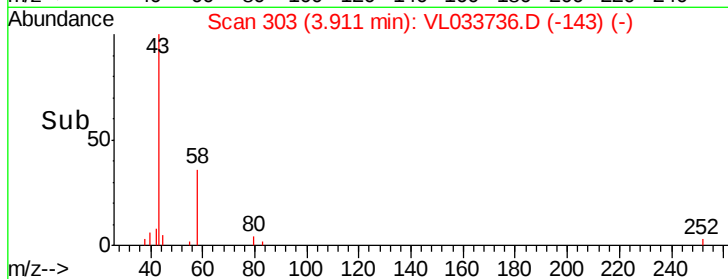
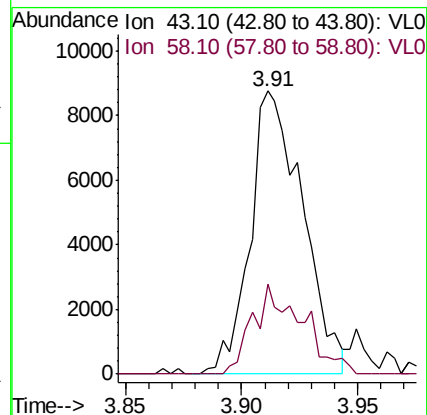
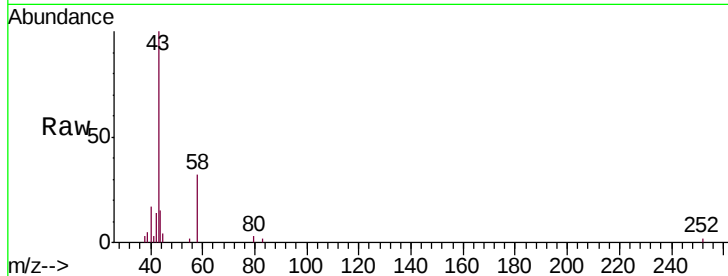
CAN 10046

Tgt Ion: 43 Resp: 13844

Ion Ratio Lower Upper

43 100

58 30.0 21.3 31.9



#20

Methylene Chloride

Concen: 0.557 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033736.D

Acq: 20 May 2019 23:35

Tgt Ion: 84 Resp: 25811

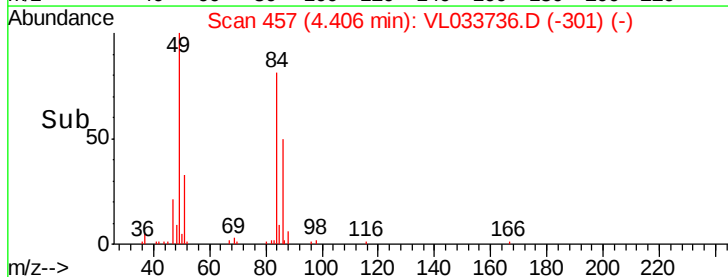
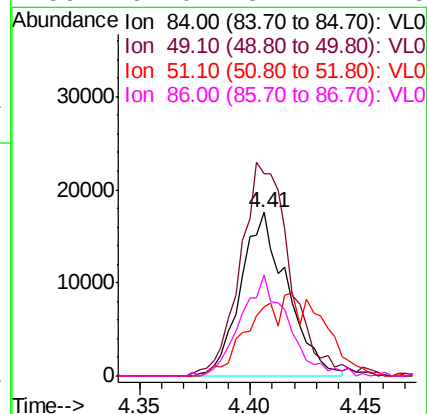
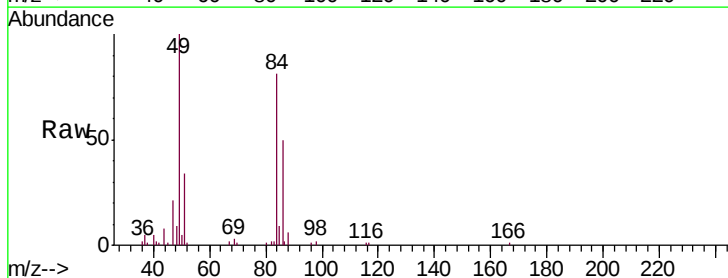
Ion Ratio Lower Upper

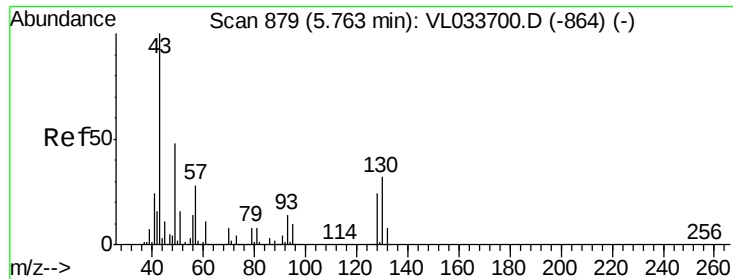
84 100

49 122.4 112.8 169.2

51 41.9 33.4 50.0

86 62.0 51.7 77.5

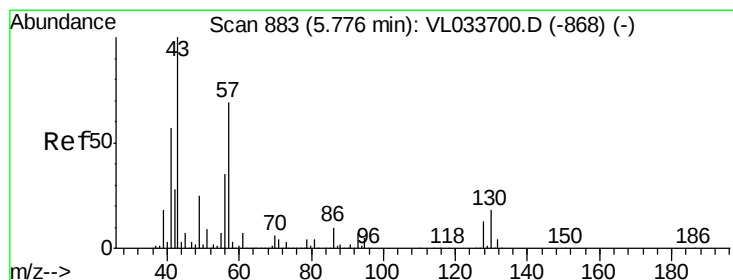
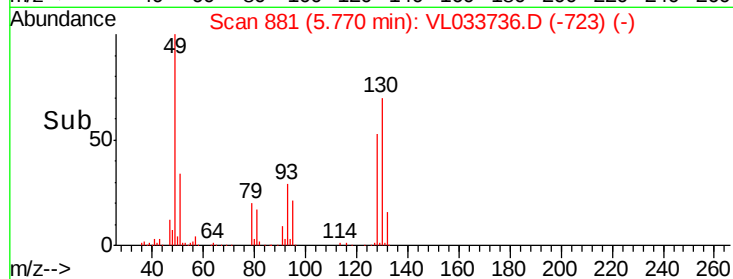
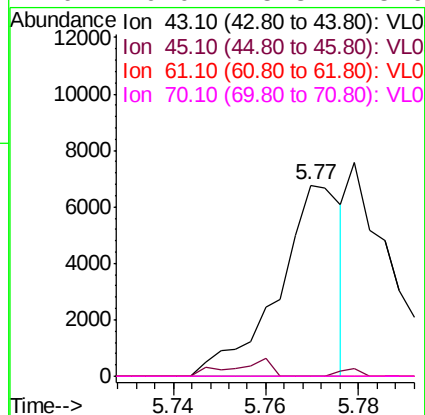
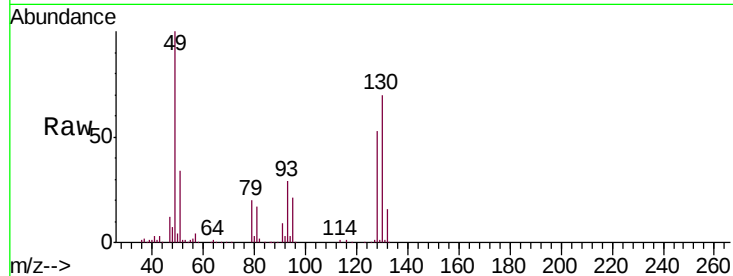




#25
Ethyl Acetate
Concen: 0.030 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033736.D
Acq: 20 May 2019 23:35

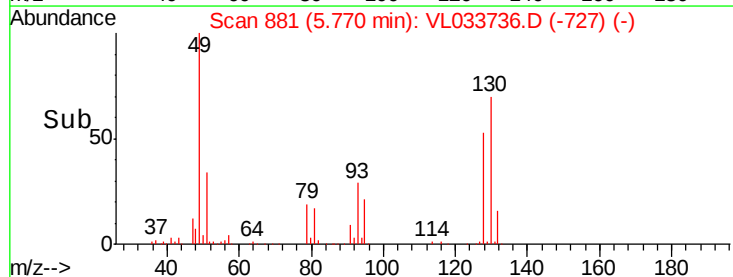
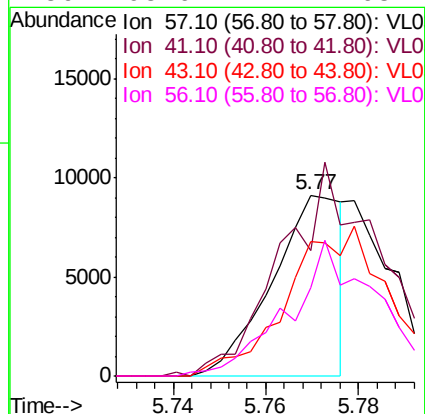
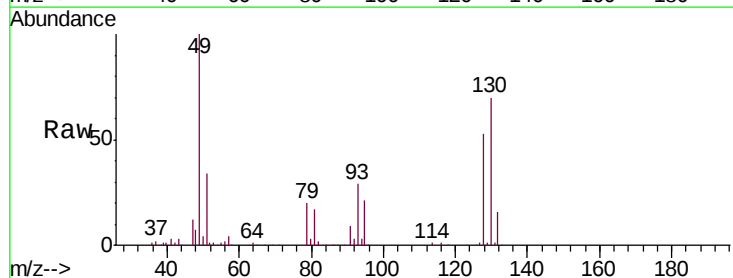
Instrument :
MSVOA_L
ClientSampleId :
CAN 10046

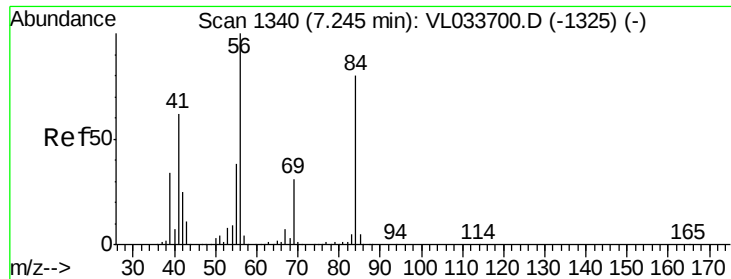
Tgt Ion:	43	Resp:	6422
Ion	Ratio	Lower	Upper
43	100		
45	5.6	7.9	11.9#
61	0.0	7.7	11.5#
70	0.0	5.8	8.6#



#26
Hexane
Concen: 0.105 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033736.D
Acq: 20 May 2019 23:35

Tgt Ion:	57	Resp:	9568
Ion	Ratio	Lower	Upper
57	100		
41	168.0	69.8	104.6#
43	0.0	181.8	272.6#
56	95.6	42.1	63.1#





#30

Cyclohexane

Concen: 0.063 ppbv

RT: 7.27 min Scan# 1349

Delta R.T. 0.03 min

Lab File: VL033736.D

Acq: 20 May 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

CAN 10046

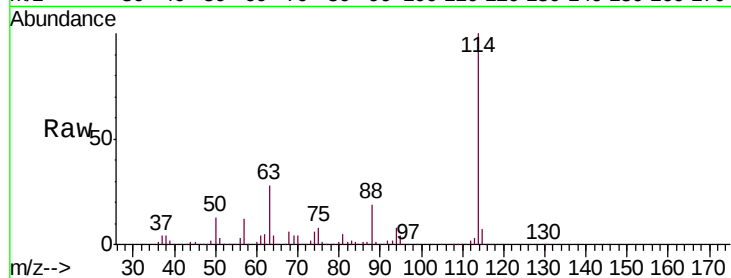
Tgt Ion: 84 Resp: 4784

Ion Ratio Lower Upper

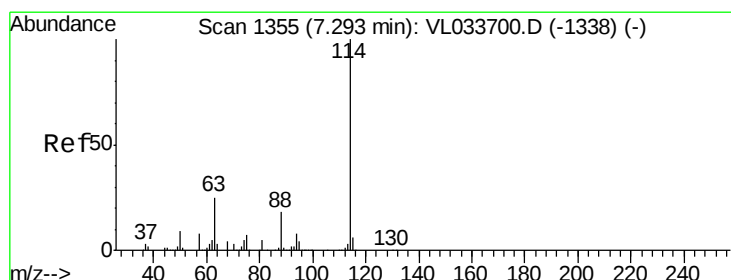
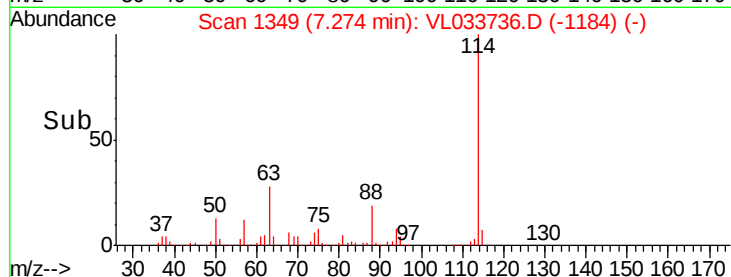
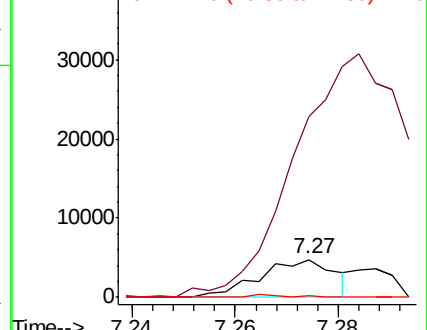
84 100

56 0.0 107.7 161.5#

41 0.0 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: VL033736.D

Acq: 20 May 2019 23:35

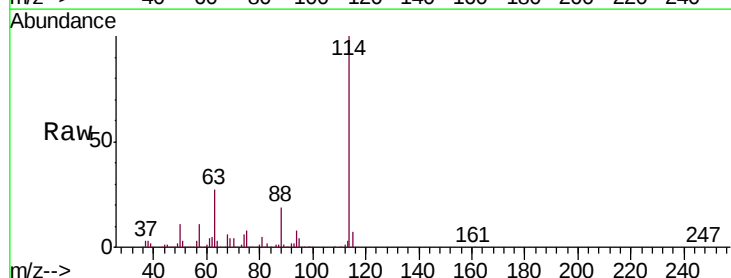
Tgt Ion: 114 Resp: 1970425

Ion Ratio Lower Upper

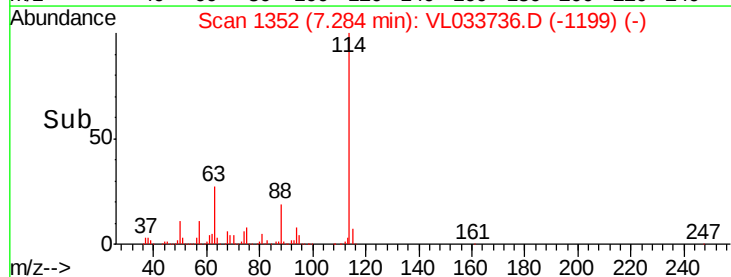
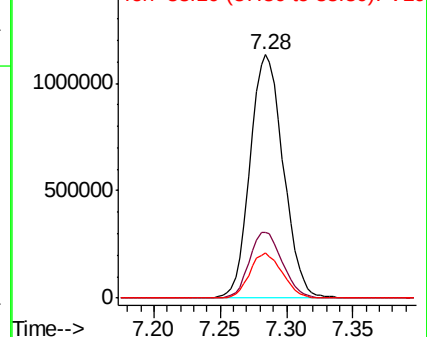
114 100

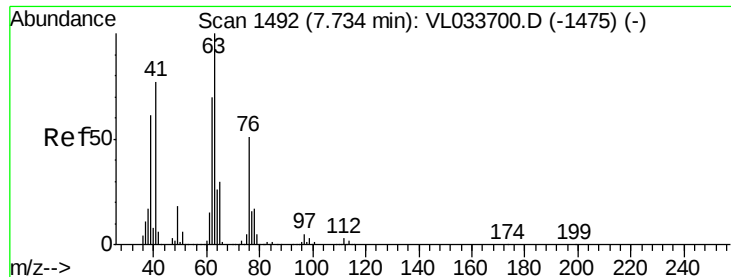
63 27.0 20.9 31.3

88 18.2 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: 7.943 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.45 min

Lab File: VL033736.D

Acq: 20 May 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

CAN 10046

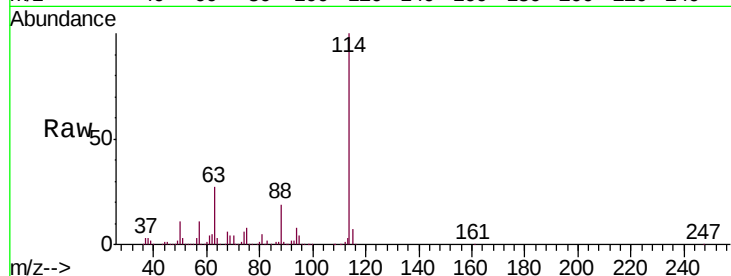
Tgt Ion: 63 Resp: 530809

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 18.1 56.2 84.4#

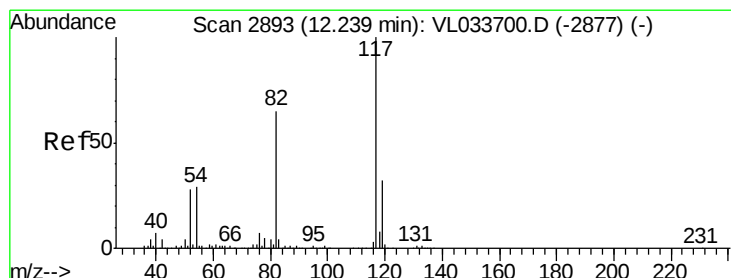
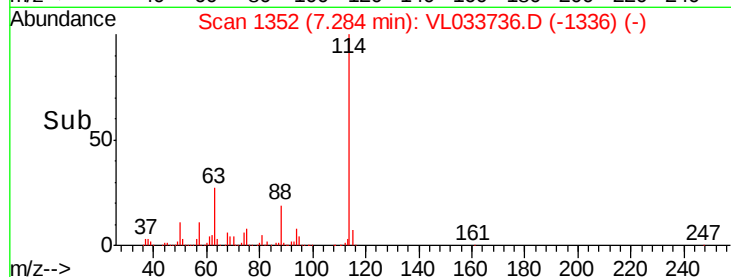
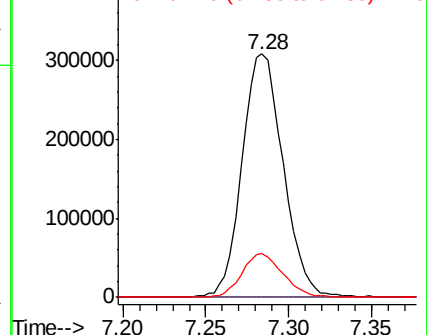


Abundance

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033736.D

Acq: 20 May 2019 23:35

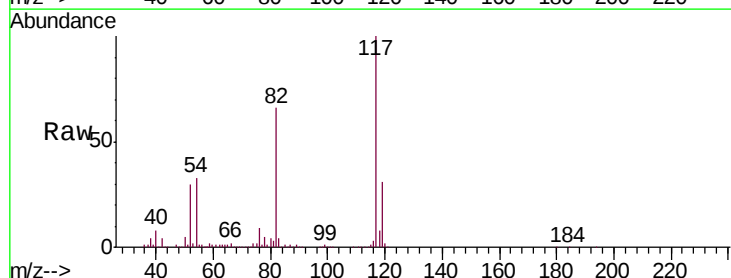
Tgt Ion: 117 Resp: 2041040

Ion Ratio Lower Upper

117 100

82 68.2 49.4 74.0

119 32.4 24.9 37.3

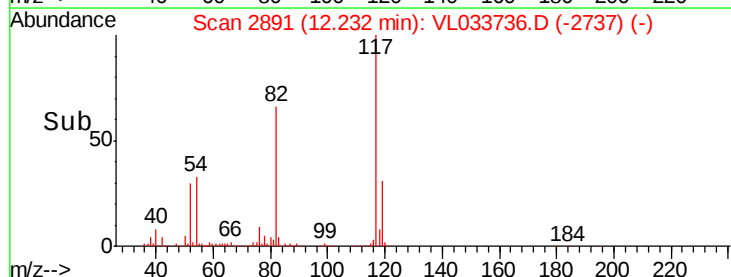
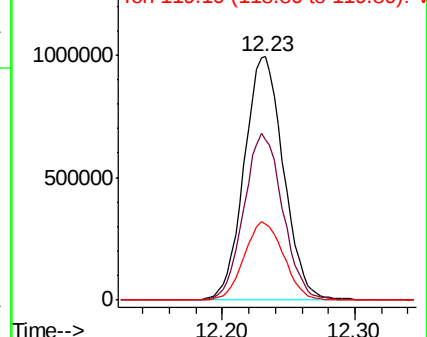


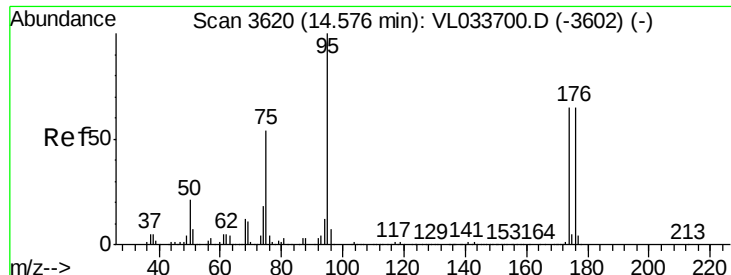
Abundance

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





#68

1-Bromo-4-Fluorobenzene

Concen: 10.056 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033736.D

Acq: 20 May 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

CAN 10046

Tgt Ion: 95 Resp: 1663815

Ion Ratio Lower Upper

95 100

174 65.6 53.9 80.9

175 4.7 3.8 5.8

