

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034002.D
 Acq On : 3 Jul 2019 2:33
 Operator : SY/AP
 Sample : K3591-14 L00 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

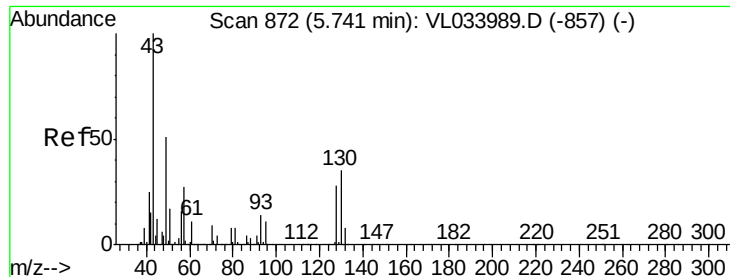
Quant Time: Jul 03 04:34:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	941155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2599767	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2560559	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	2090427	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	12523	0.064 ppbv	90
3) Chlorodifluoromethane	3.00	51	8226	0.071 ppbv	99
7) Chloroethane	3.58	64	878	0.033 ppbv #	80
8) Dichlorotetrafluoroethane	3.21	85	10428	0.055 ppbv	100
9) Propene	3.02	41	1762	0.041 ppbv #	14
11) Trichlorofluoromethane	3.99	101	8194	0.038 ppbv	93
13) Ethanol	3.65	45	518	0.039 ppbv #	35
16) 1,3-Butadiene	3.35	39	1690	0.030 ppbv #	62
18) 1,1-Dichloroethene	4.34	96	2155	0.031 ppbv #	69
20) Methylene Chloride	4.39	84	5334	0.077 ppbv #	90
21) Allyl Chloride	4.45	41	3480	0.035 ppbv #	21
24) 1,1-Dichloroethane	5.06	63	4525	0.032 ppbv #	89
26) Hexane	5.76	57	3295	0.033 ppbv #	77
39) 1,2-Dichloropropane	7.26	63	652818	8.630 ppbv #	24

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

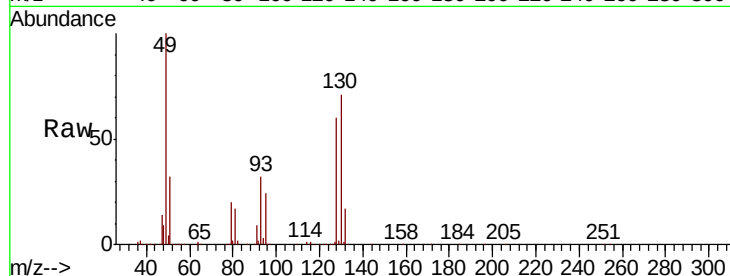
Lab File: VL034002.D

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Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 941155

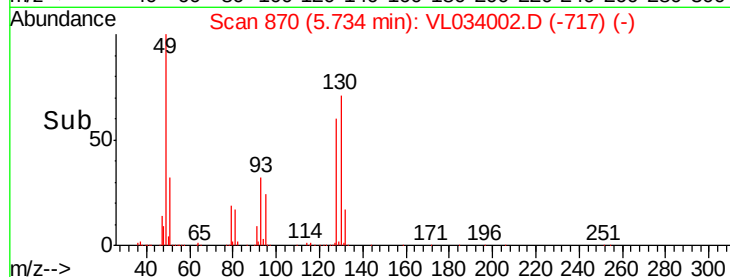
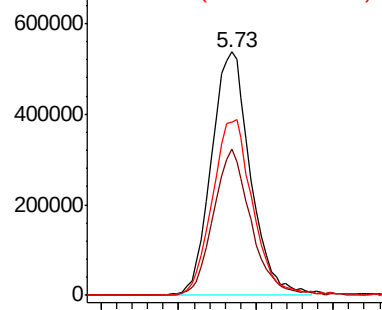
Ion	Ratio	Lower	Upper
49	100		
128	58.5	27.9	83.6
130	75.7	35.8	107.4



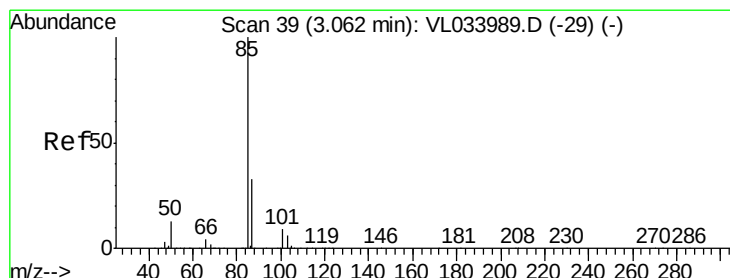
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.064 ppbv

RT: 3.06 min Scan# 39

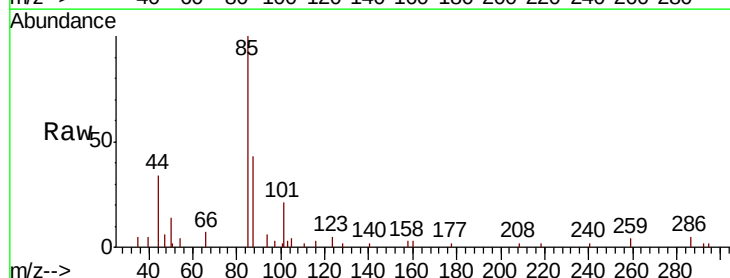
Delta R.T. -0.00 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

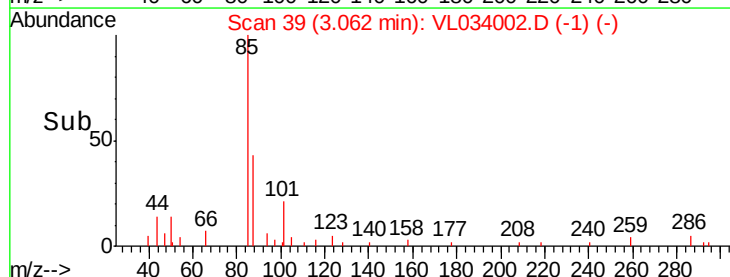
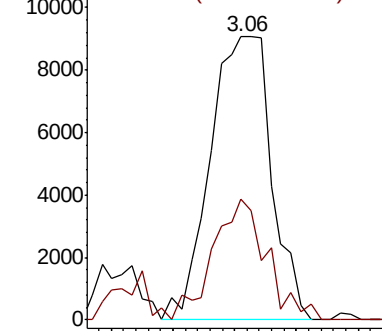
Tgt Ion: 85 Resp: 12523

Ion	Ratio	Lower	Upper
85	100		
87	38.1	26.0	39.0

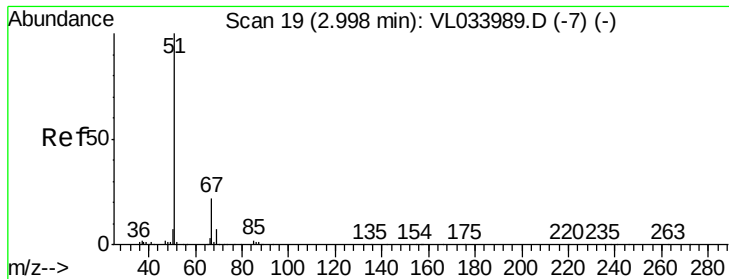


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



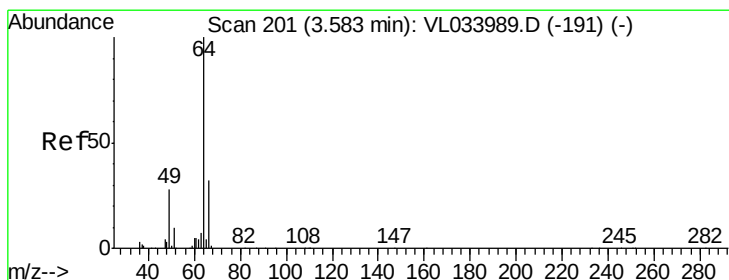
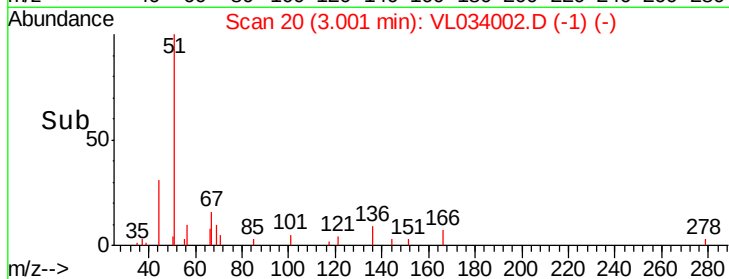
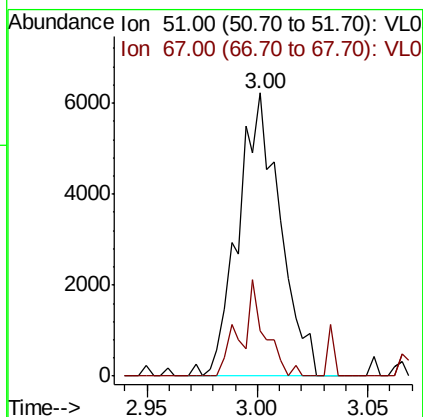
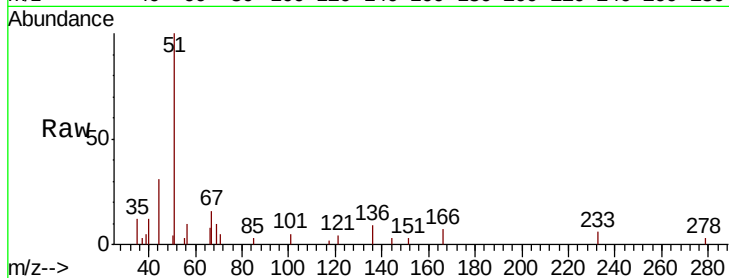
Time-->



#3
 Chlorodifluoromethane
 Concen: 0.071 ppbv
 RT: 3.00 min Scan# 20
 Delta R.T. 0.00 min
 Lab File: VL034002.D
 Acq: 3 Jul 2019 2:33

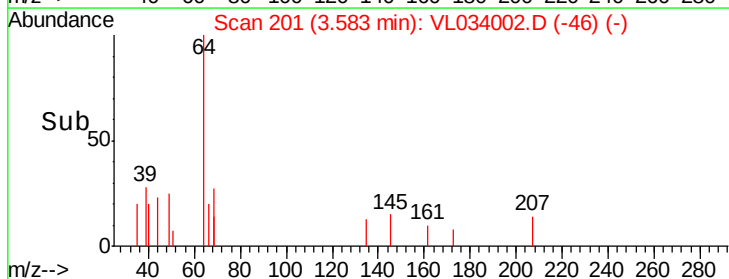
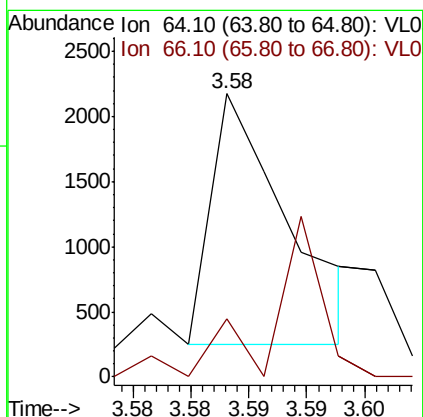
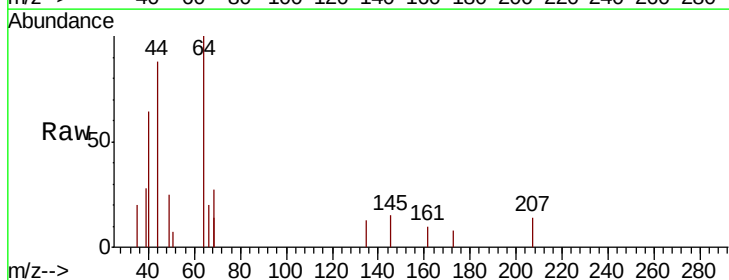
Instrument :
 MSVOA_L
 ClientSampleId :

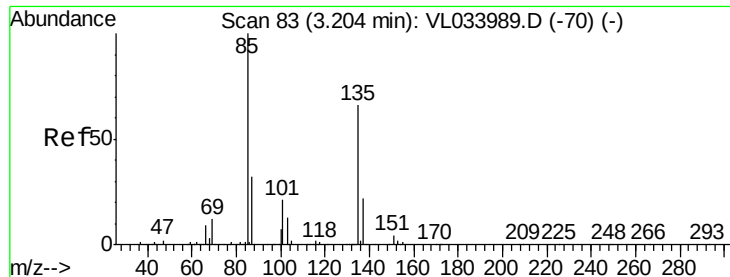
Tot Ion: 51 Resp: 8226
 Ion Ratio Lower Upper
 51 100
 67 21.9 17.3 25.9



#7
 Chloroethane
 Concen: 0.033 ppbv
 RT: 3.58 min Scan# 201
 Delta R.T. -0.00 min
 Lab File: VL034002.D
 Acq: 3 Jul 2019 2:33

Tgt Ion: 64 Resp: 878
 Ion Ratio Lower Upper
 64 100
 66 20.4 25.3 37.9#





#8

Dichlorotetrafluoroethane

Concen: 0.055 ppbv

RT: 3.21 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Instrument :

MSVOA_L

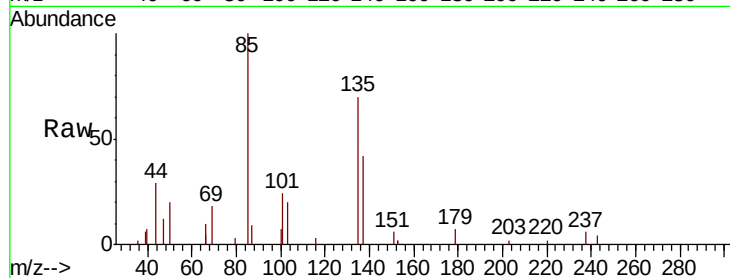
ClientSampleId :

Tot Ion: 85 Resp: 10428

Ion Ratio Lower Upper

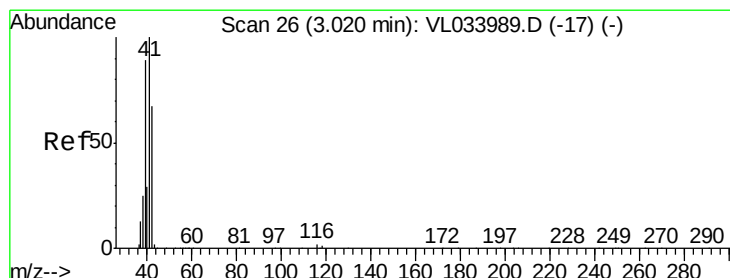
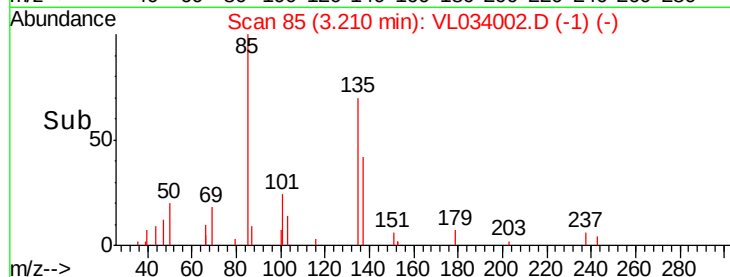
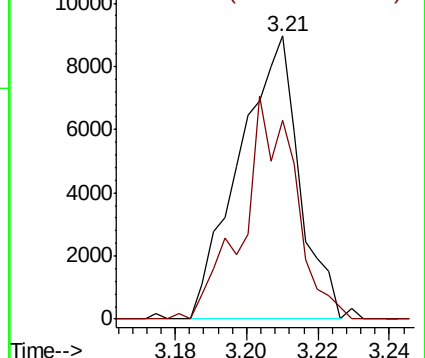
85 100

135 68.8 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.041 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034002.D

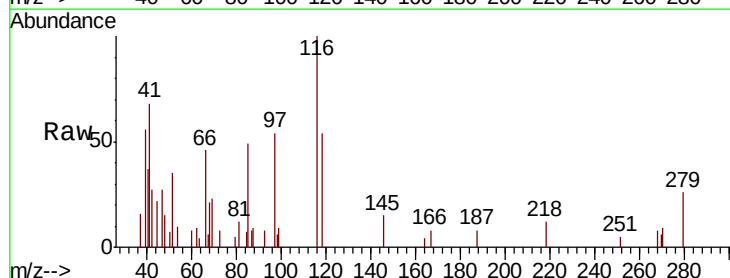
Acq: 3 Jul 2019 2:33

Tgt Ion: 41 Resp: 1762

Ion Ratio Lower Upper

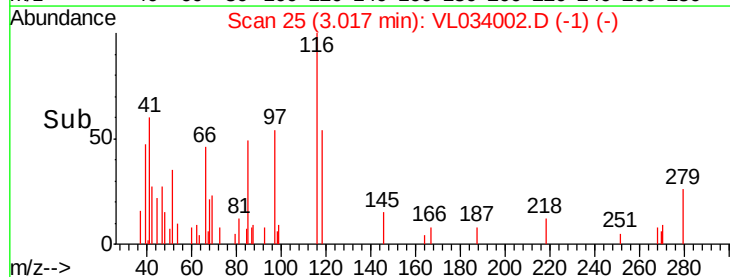
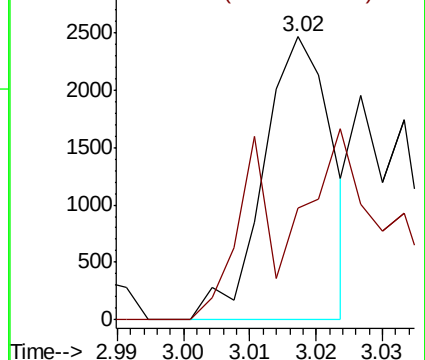
41 100

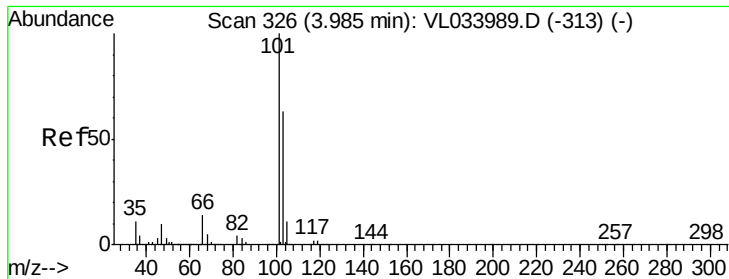
42 0.0 57.1 85.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 3.99 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

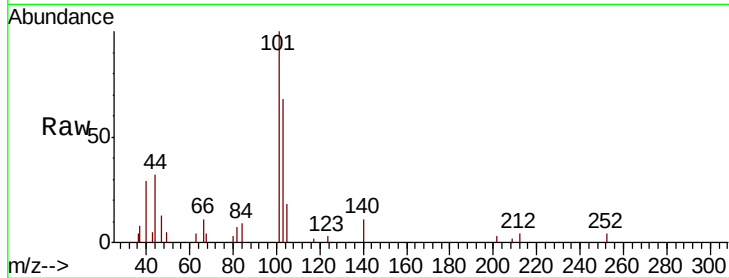
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:101 Resp: 8194

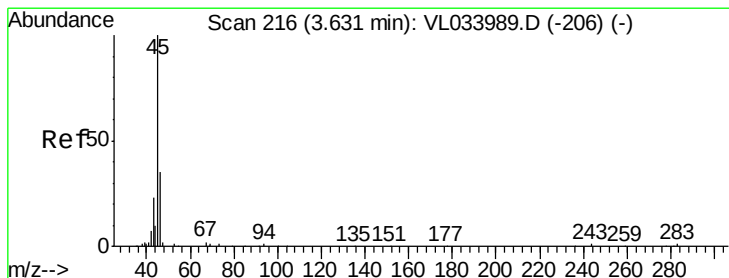
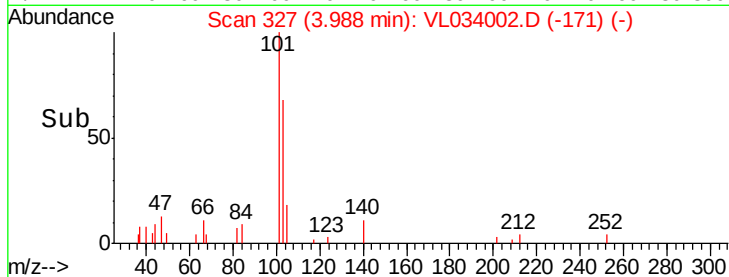
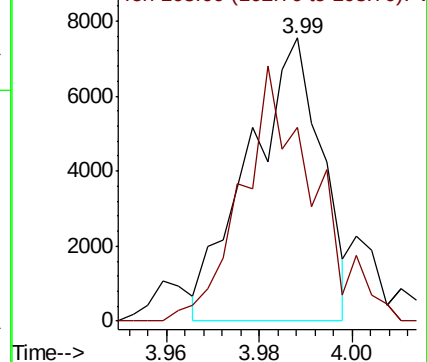
Ion Ratio Lower Upper

101 100

103 68.7 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.039 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.02 min

Lab File: VL034002.D

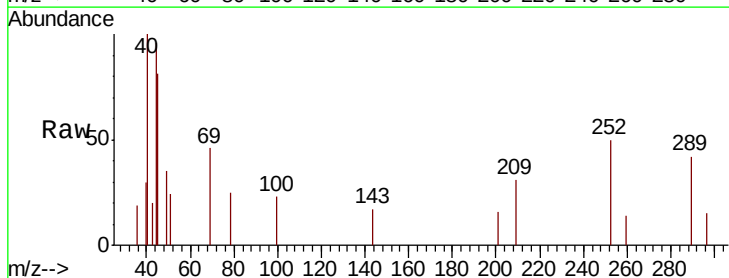
Acq: 3 Jul 2019 2:33

Tgt Ion: 45 Resp: 518

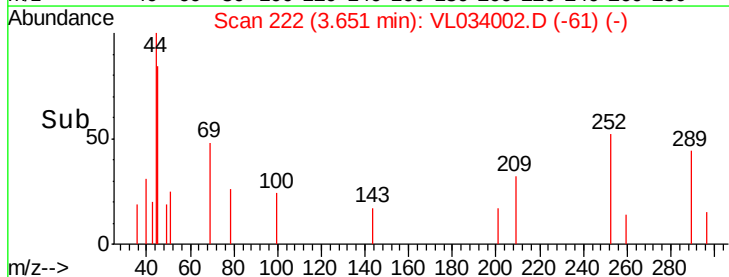
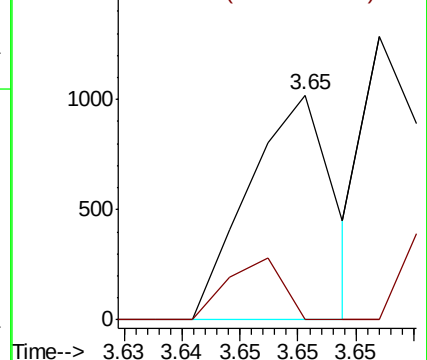
Ion Ratio Lower Upper

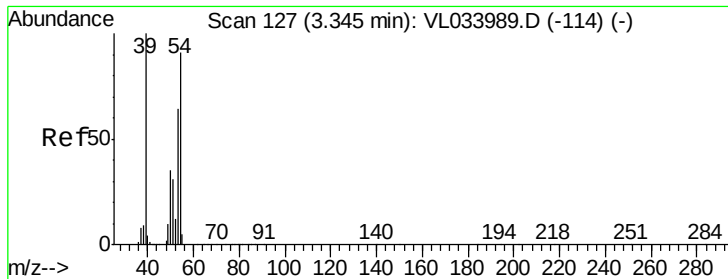
45 100

46 0.0 16.2 64.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 46.10 (45.80 to 46.80): VL0





#16

1,3-Butadiene

Concen: 0.030 ppbv

RT: 3.35 min Scan# 128

Delta R.T. 0.00 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

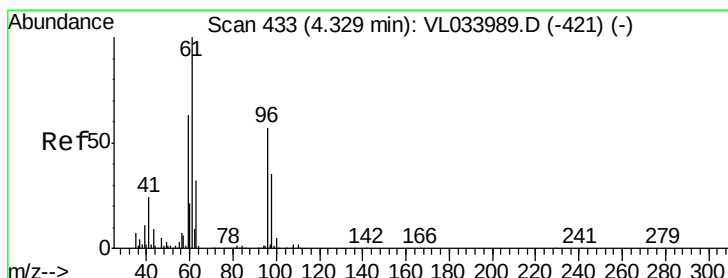
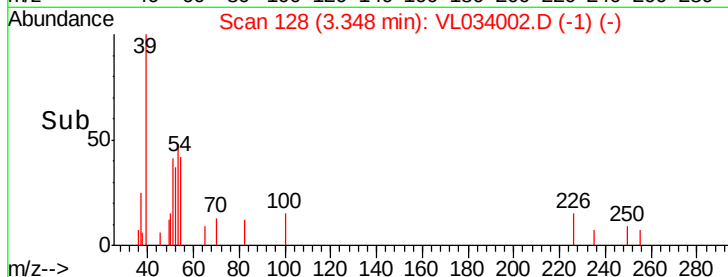
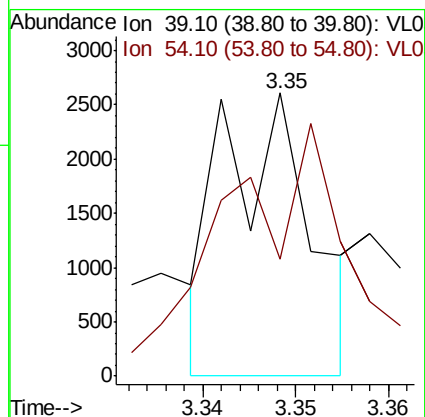
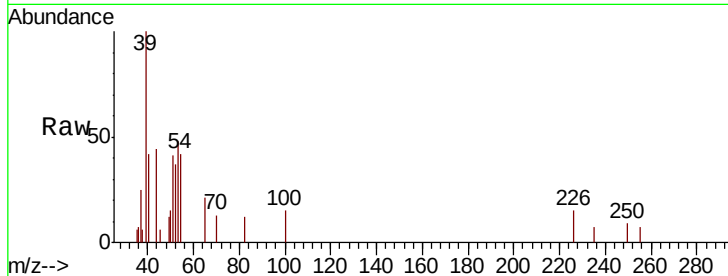
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 39 Resp: 1690

Ion Ratio Lower Upper

39 100

54 125.2 71.4 107.2#



#18

1,1-Dichloroethene

Concen: 0.031 ppbv

RT: 4.34 min Scan# 435

Delta R.T. 0.01 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

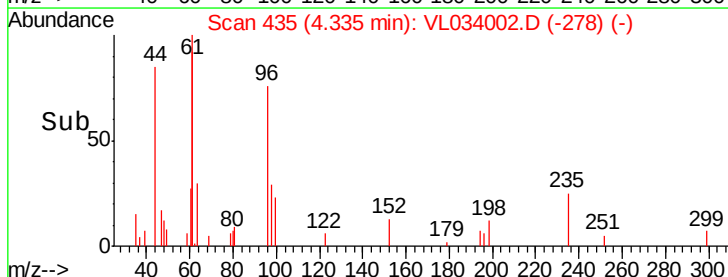
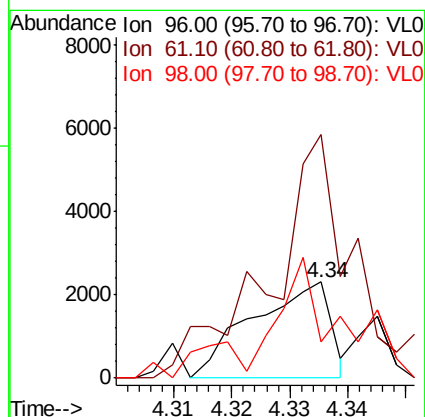
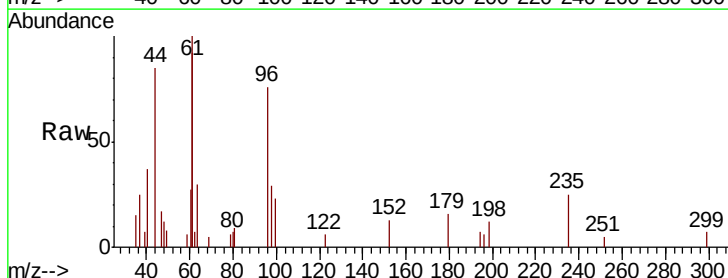
Tgt Ion: 96 Resp: 2155

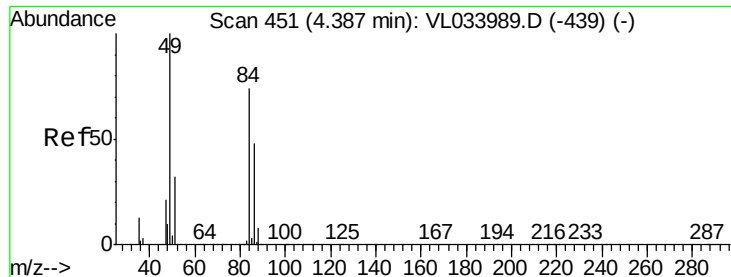
Ion Ratio Lower Upper

96 100

61 199.4 139.4 209.0

98 10.4 49.4 74.0#

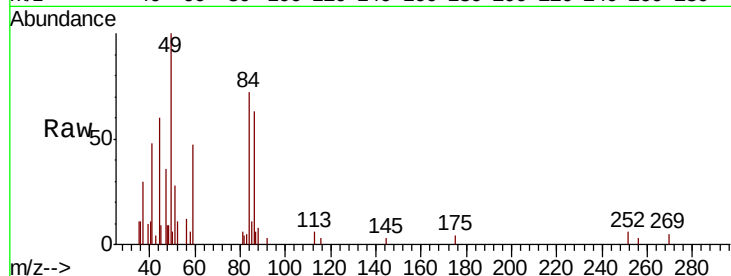




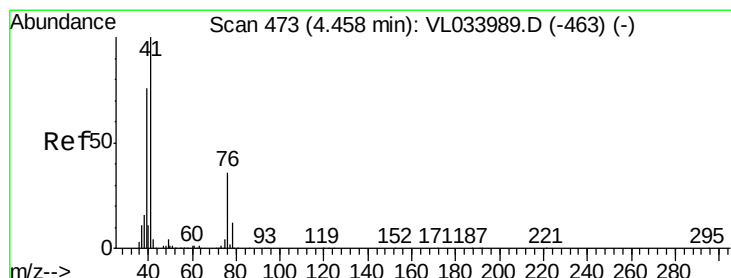
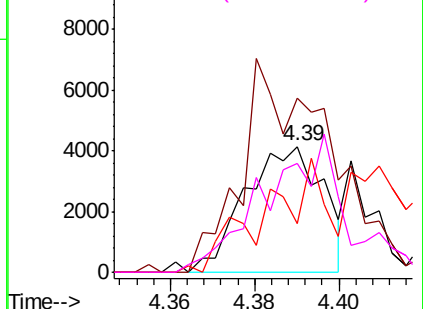
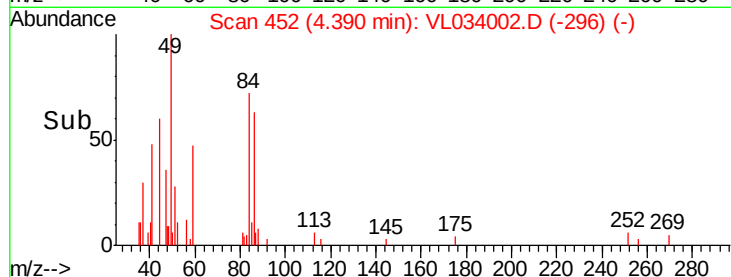
#20
Methvlene Chloride
Concen: 0.077 ppbv
RT: 4.39 min Scan# 452
Delta R.T. 0.00 min
Lab File: VL034002.D
Acq: 3 Jul 2019 2:33

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 5334
Ion Ratio Lower Upper
84 100
49 138.0 107.6 161.4
51 33.4 35.0 52.6#
86 80.3 52.1 78.1#

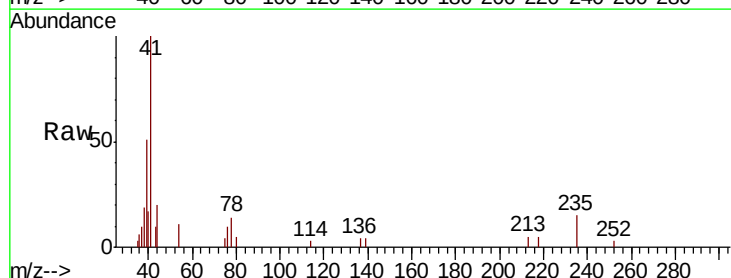


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

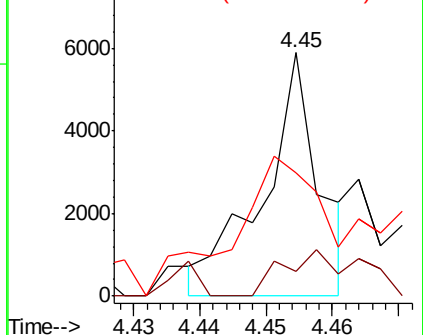
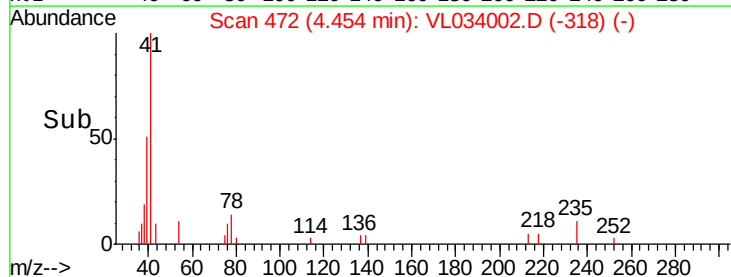


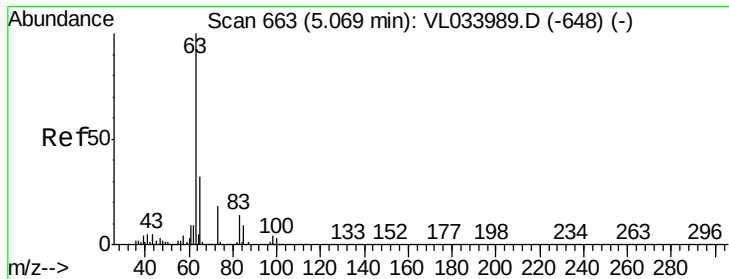
#21
Allyl Chloride
Concen: 0.035 ppbv
RT: 4.45 min Scan# 472
Delta R.T. -0.00 min
Lab File: VL034002.D
Acq: 3 Jul 2019 2:33

Tgt Ion: 41 Resp: 3480
Ion Ratio Lower Upper
41 100
76 40.9 26.8 40.2#
39 173.2 63.1 94.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#24

1,1-Dichloroethane

Concen: 0.032 ppbv

RT: 5.06 min Scan# 661

Delta R.T. -0.01 min

Lab File: VL034002.D

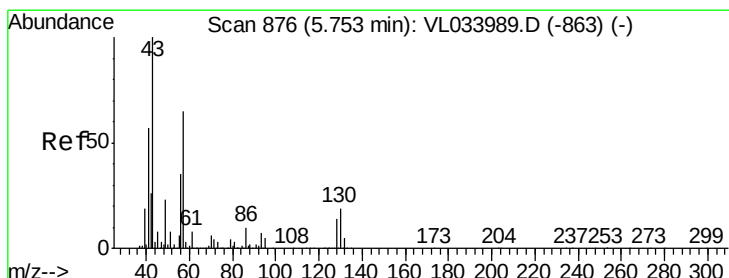
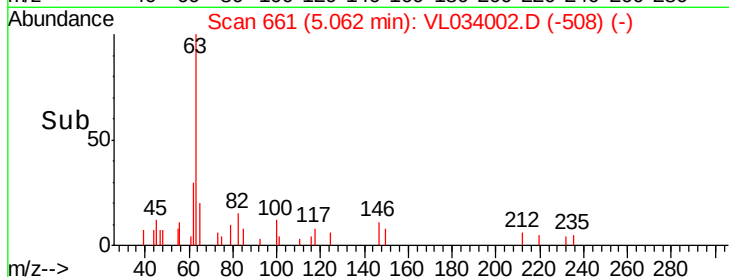
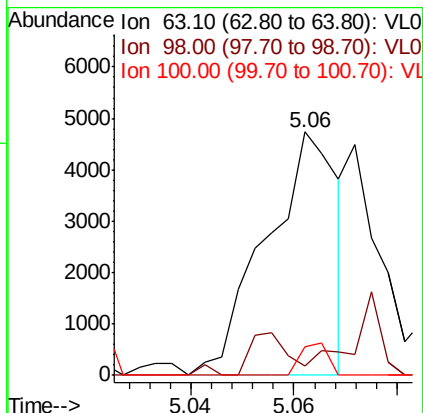
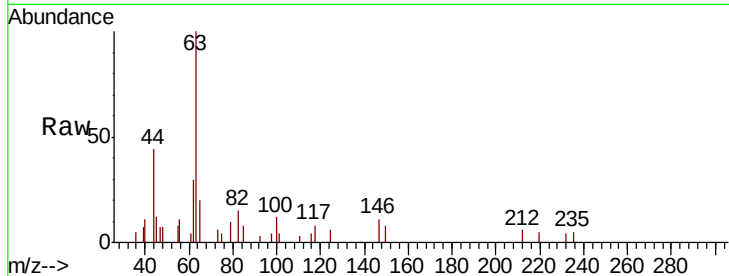
Acq: 3 Jul 2019 2:33

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	63	Resp:	4525
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.2	6.6
100	11.7	1.4	4.2#



#26

Hexane

Concen: 0.033 ppbv

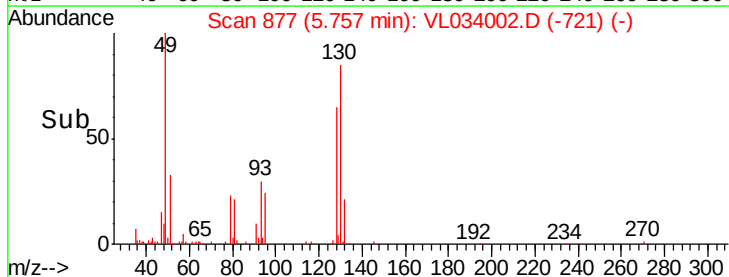
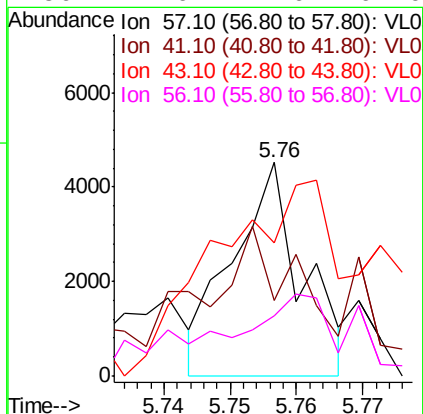
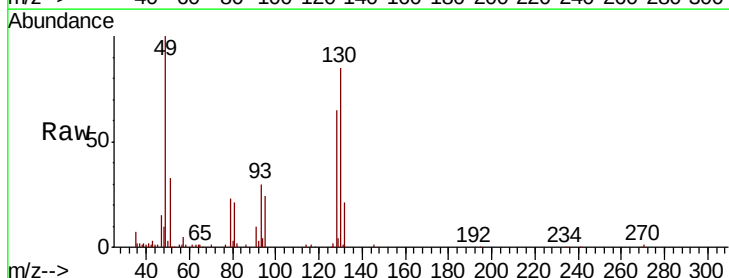
RT: 5.76 min Scan# 877

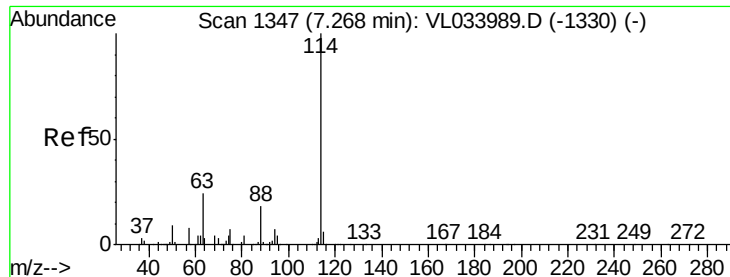
Delta R.T. 0.00 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Tgt Ion:	57	Resp:	3295
Ion	Ratio	Lower	Upper
57	100		
41	144.7	70.6	105.8#
43	231.3	177.6	266.4
56	74.6	42.6	64.0#



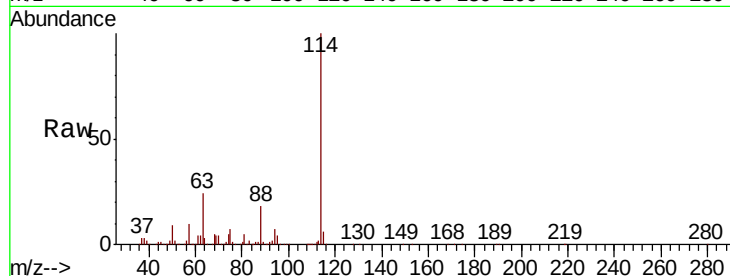


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1344
 Delta R.T. -0.01 min
 Lab File: VL034002.D
 Acq: 3 Jul 2019 2:33

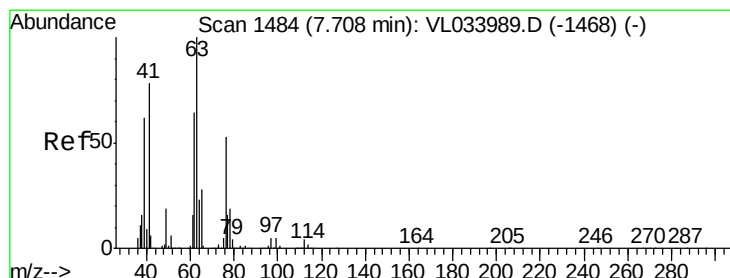
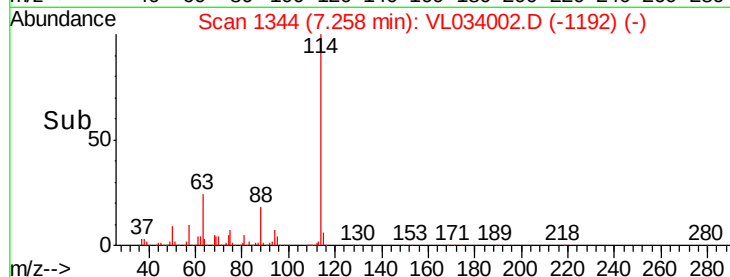
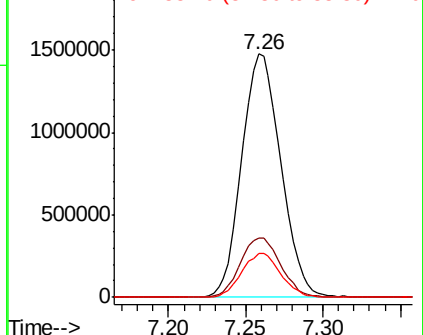
Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2599767

Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.2	30.2
88	18.1	14.1	21.1



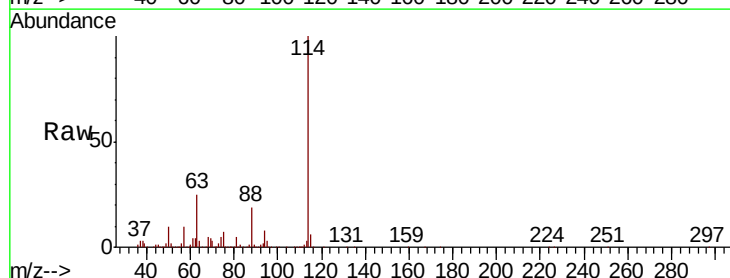
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



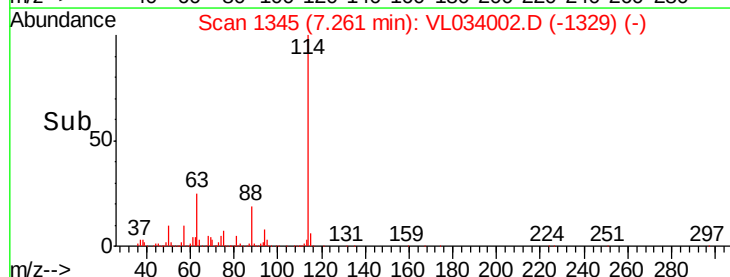
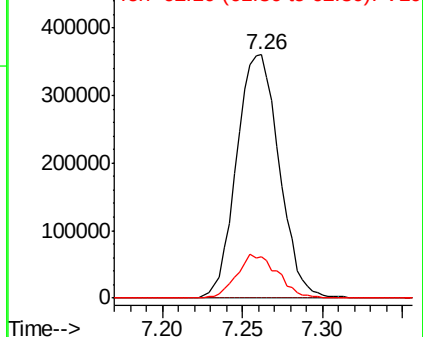
#39
 1,2-Dichloropropane
 Concen: 8.630 ppbv
 RT: 7.26 min Scan# 1345
 Delta R.T. -0.45 min
 Lab File: VL034002.D
 Acq: 3 Jul 2019 2:33

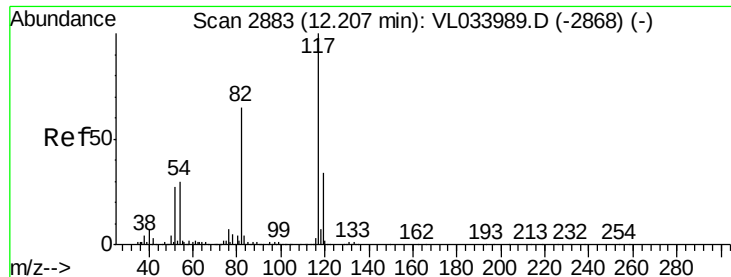
Tgt Ion: 63 Resp: 652818

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.3	93.5#
62	17.1	51.4	77.2#



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

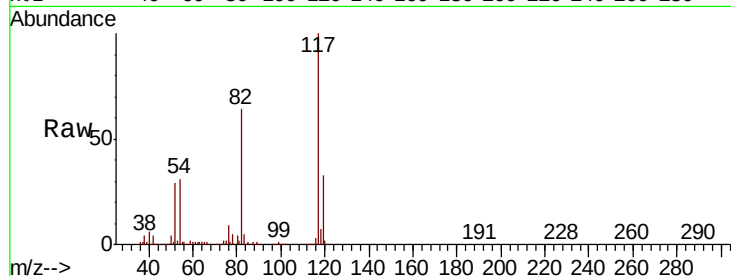




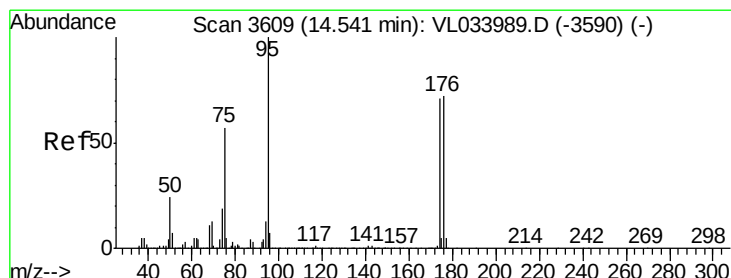
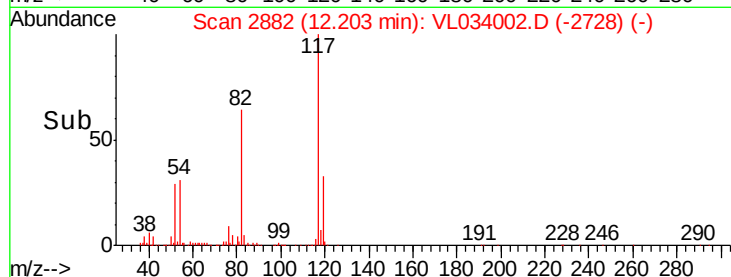
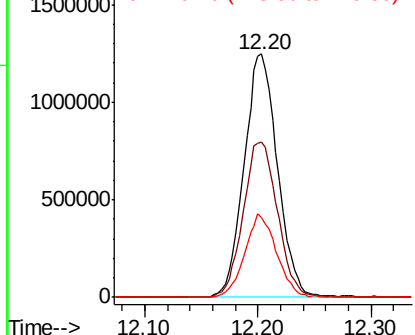
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2882
Delta R.T. -0.00 min
Lab File: VL034002.D
Acq: 3 Jul 2019 2:33

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2560559
Ion Ratio Lower Upper
117 100
82 66.0 50.8 76.2
119 32.8 24.0 36.0

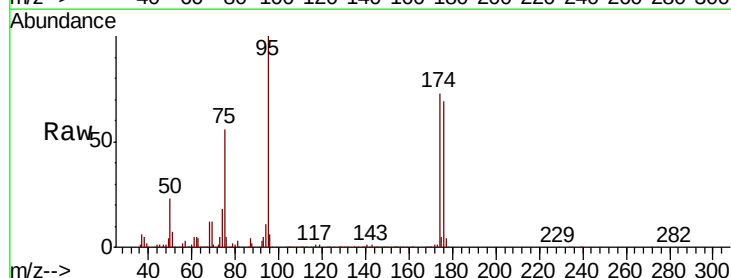


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.572 ppbv
RT: 14.54 min Scan# 3608
Delta R.T. -0.00 min
Lab File: VL034002.D
Acq: 3 Jul 2019 2:33

Tgt Ion: 95 Resp: 2090427
Ion Ratio Lower Upper
95 100
174 73.9 60.5 90.7
175 5.1 4.0 6.0



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

