

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030121\
 Data File : VL036415.D
 Acq On : 1 Mar 2021 15:16
 Operator : SY/AP
 Sample : M1463-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 02 02:40:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1716775	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.20	114	3753261	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3399712	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2676089	9.57	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

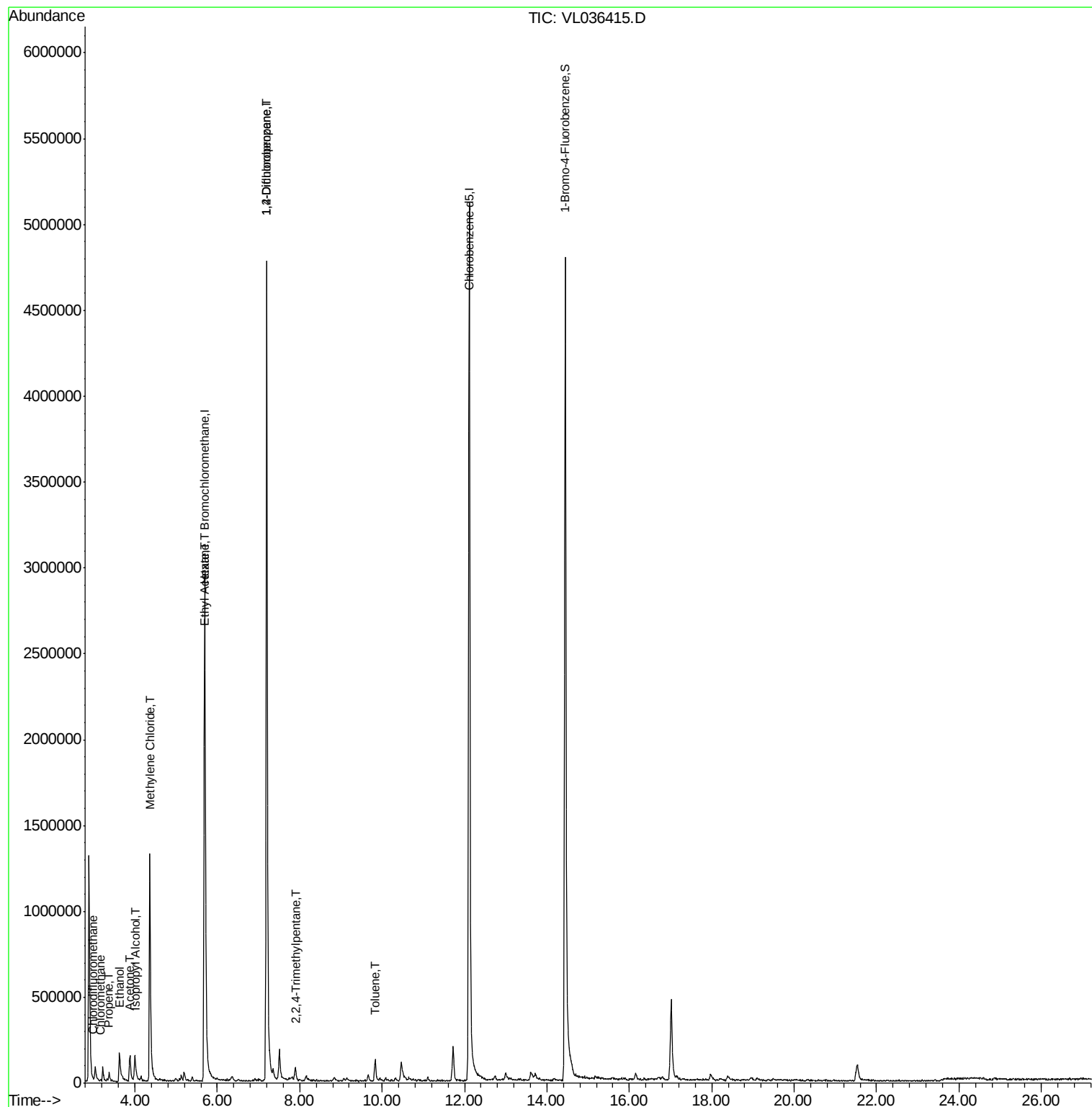
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	8339	0.039	ppbv	98
4) Chloromethane	3.15	50	4259	0.041	ppbv #	68
9) Propene	3.37	41	11234	0.141	ppbv	99
13) Ethanol	3.62	45	179226	11.998	ppbv	90
15) Acetone	3.87	43	193998	0.924	ppbv	93
19) Isopropyl Alcohol	4.00	45	186739	1.606	ppbv #	90
20) Methylene Chloride	4.36	84	551680	8.148	ppbv	93
25) Ethyl Acetate	5.71	43	181095	0.447	ppbv #	79
26) Hexane	5.71	57	230113	1.382	ppbv #	39
39) 1,2-Dichloropropane	7.19	63	1072852	8.284	ppbv #	22
44) 2,2,4-Trimethylpentane	7.90	57	48700	0.084	ppbv #	71
53) Toluene	9.83	91	69053	0.200	ppbv	93

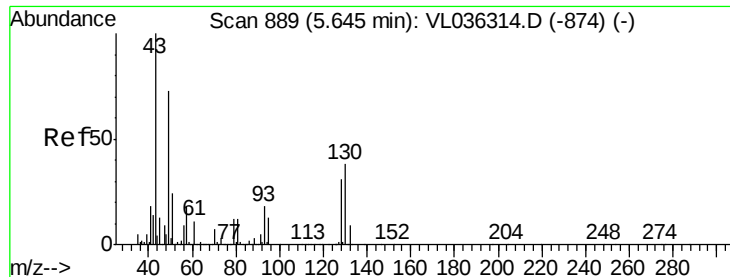
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 02 02:40:53 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.04 min

Lab File: VL036415.D

Acq: 1 Mar 2021 15:16

Instrument :

MSVOA_L

ClientSampleId :

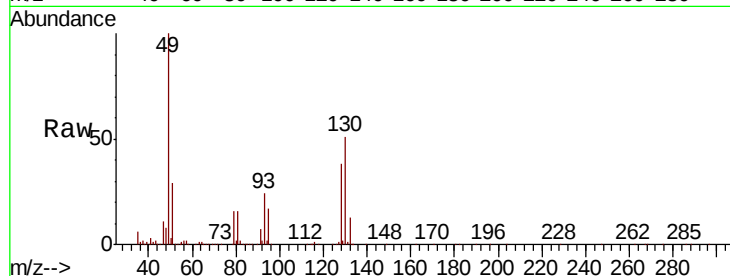
Tot Ion: 49 Resp: 1716775

Ion Ratio Lower Upper

49 100

128 42.2 20.8 62.5

130 54.6 26.7 80.1



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

5.69

800000

600000

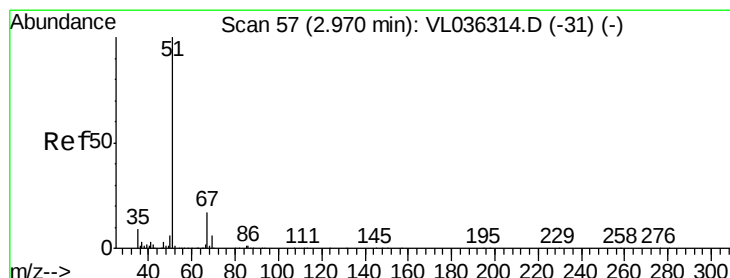
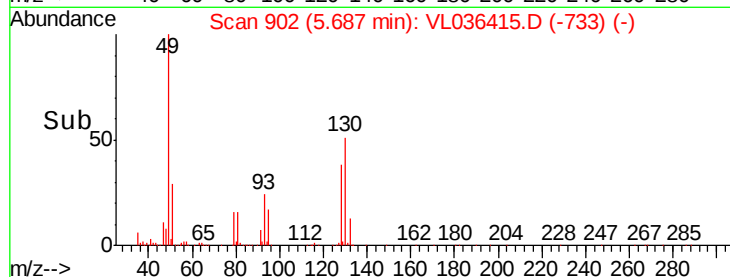
400000

200000

0

Time-->

5.60 5.65 5.70 5.75



#3

Chlorodifluoromethane

Concen: 0.039 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.03 min

Lab File: VL036415.D

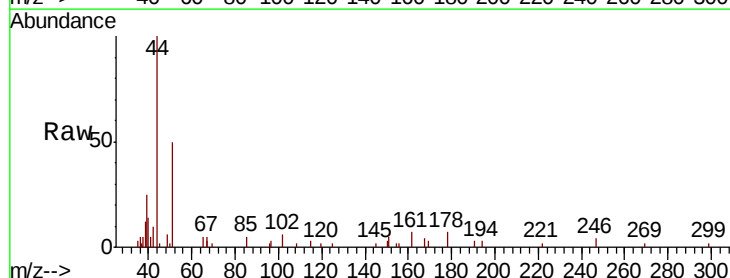
Acq: 1 Mar 2021 15:16

Tgt Ion: 51 Resp: 8339

Ion Ratio Lower Upper

51 100

67 17.3 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.00

4000

3000

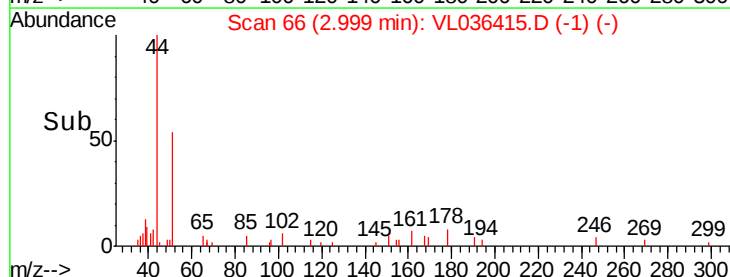
2000

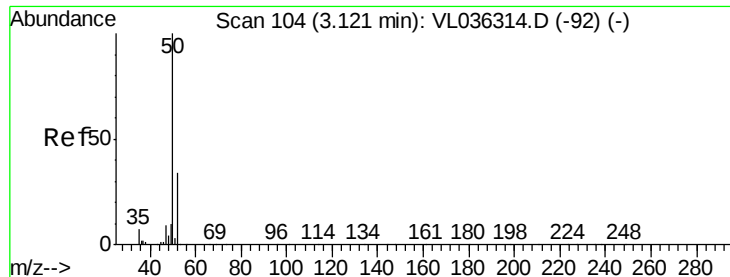
1000

0

Time-->

2.95 3.00 3.05





#4

Chloromethane

Concen: 0.041 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.03 min

Lab File: VL036415.D

Acq: 1 Mar 2021 15:16

Instrument :

MSVOA_L

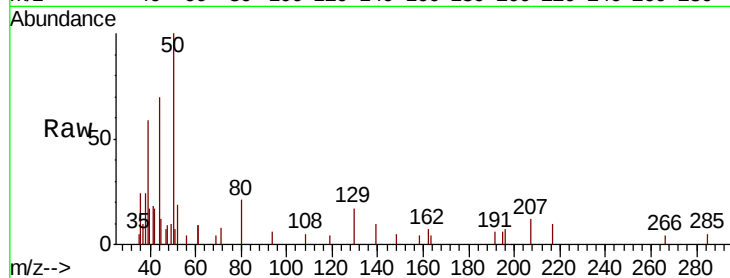
ClientSampleId :

Tot Ion: 50 Resp: 4259

Ion Ratio Lower Upper

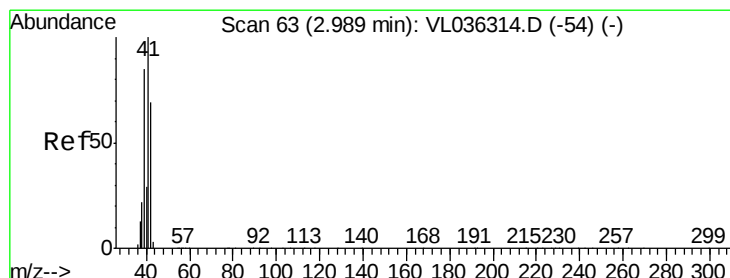
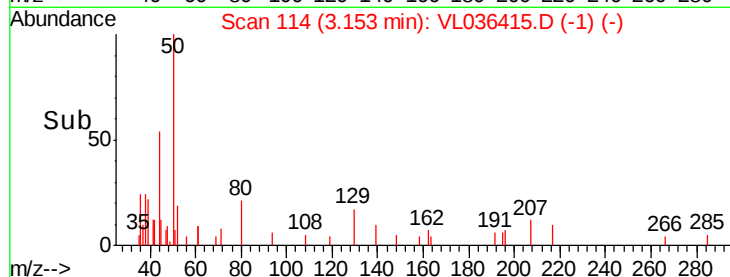
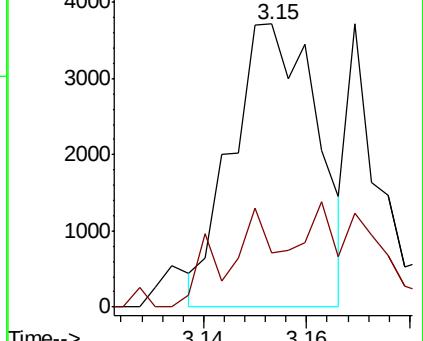
50 100

52 15.4 27.0 40.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.141 ppbv

RT: 3.37 min Scan# 182

Delta R.T. 0.38 min

Lab File: VL036415.D

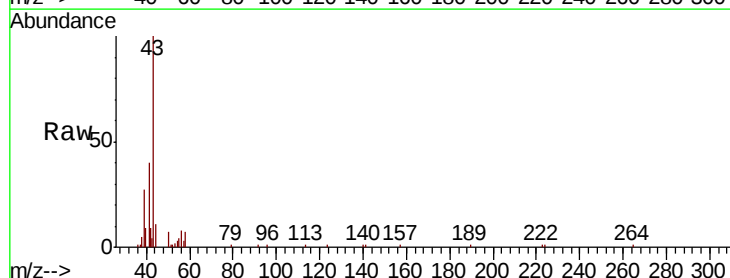
Acq: 1 Mar 2021 15:16

Tgt Ion: 41 Resp: 11234

Ion Ratio Lower Upper

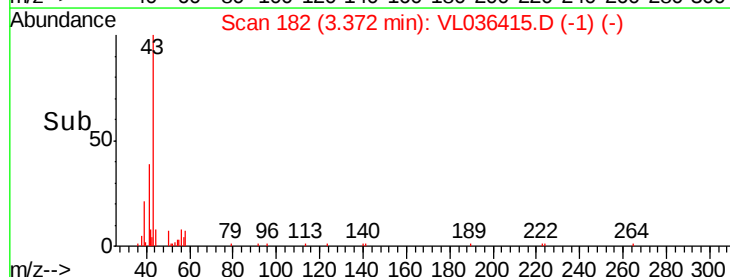
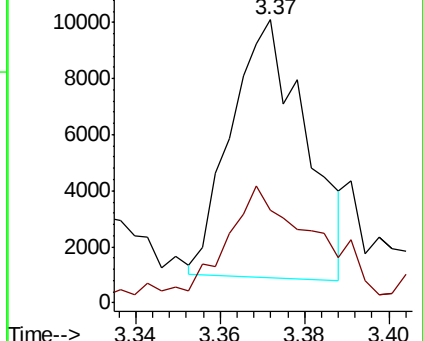
41 100

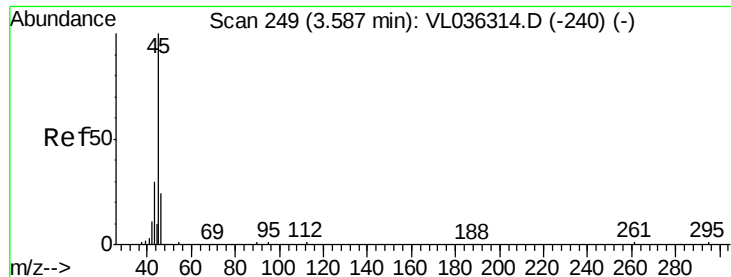
42 71.0 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 11.998 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.04 min

Lab File: VL036415.D

Acq: 1 Mar 2021 15:16

Instrument :

MSVOA_L

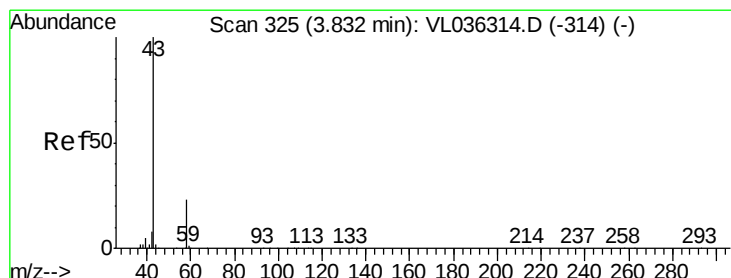
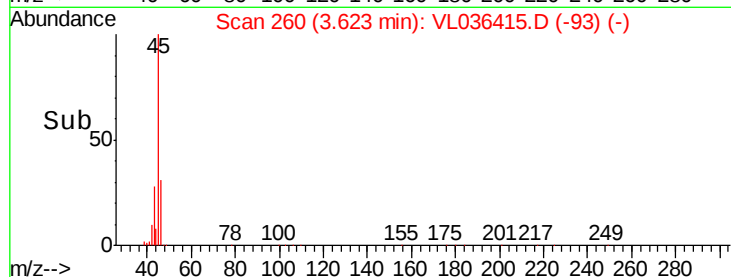
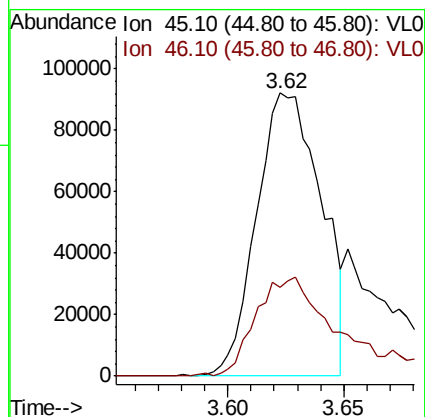
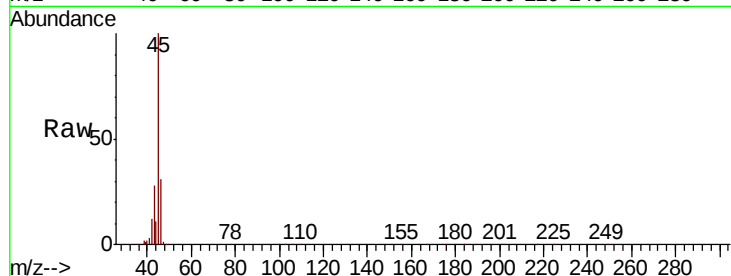
ClientSampleId :

Tot Ion: 45 Resp: 179226

Ion Ratio Lower Upper

45 100

46 50.5 17.7 70.7



#15

Acetone

Concen: 0.924 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.04 min

Lab File: VL036415.D

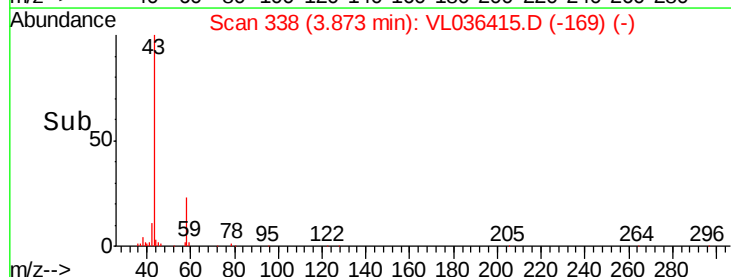
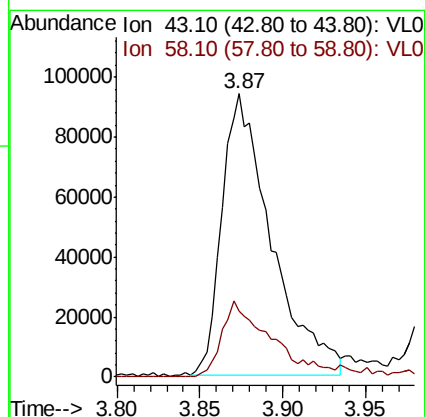
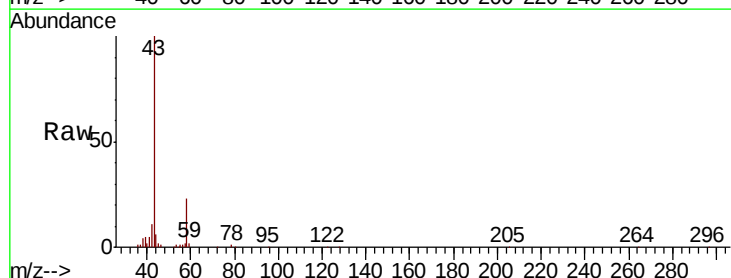
Acq: 1 Mar 2021 15:16

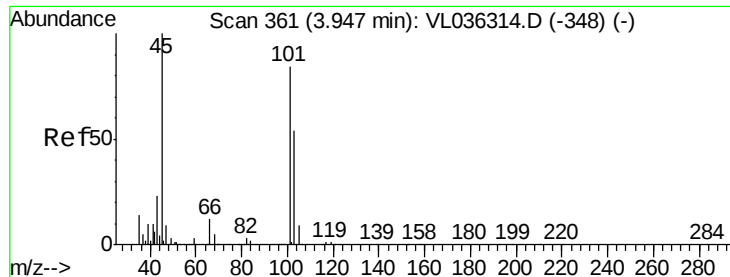
Tgt Ion: 43 Resp: 193998

Ion Ratio Lower Upper

43 100

58 28.9 20.3 30.5





#19

Isopropyl Alcohol

Concen: 1.606 ppbv

RT: 4.00 min Scan# 377

Delta R.T. 0.05 min

Lab File: VL036415.D

Acq: 1 Mar 2021 15:16

Instrument :

MSVOA_L

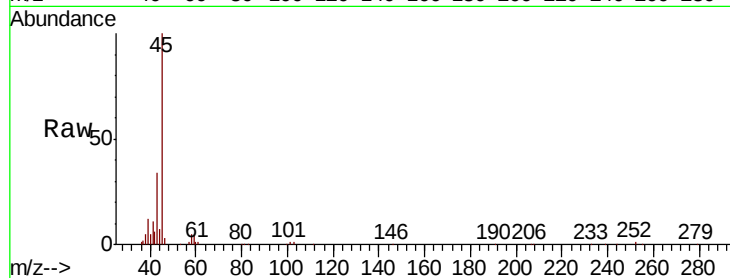
ClientSampleId :

Tot Ion: 45 Resp: 186739

Ion Ratio Lower Upper

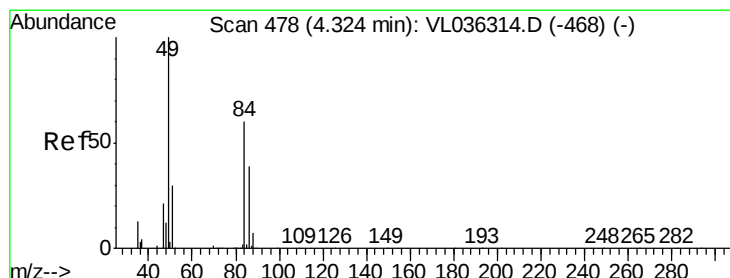
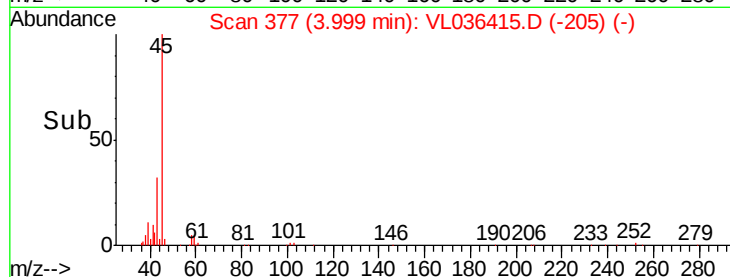
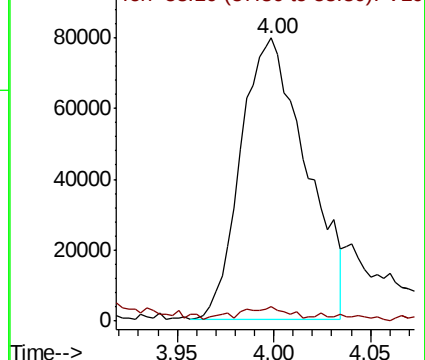
45 100

58 5.8 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.148 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.04 min

Lab File: VL036415.D

Acq: 1 Mar 2021 15:16

Tgt Ion: 84 Resp: 551680

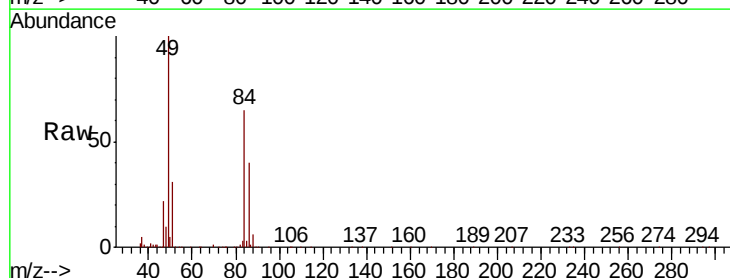
Ion Ratio Lower Upper

84 100

49 154.5 133.8 200.8

51 48.4 41.4 62.0

86 61.4 51.5 77.3

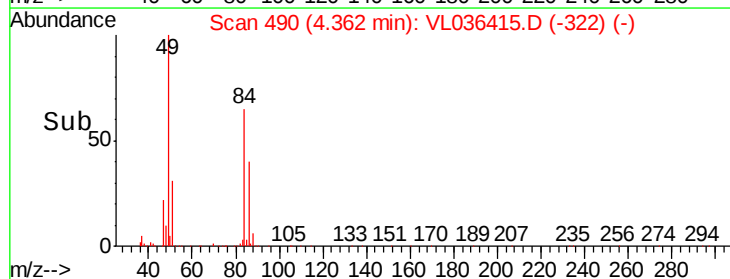
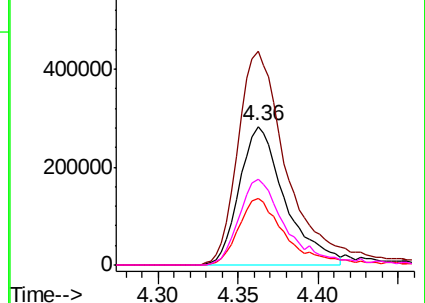


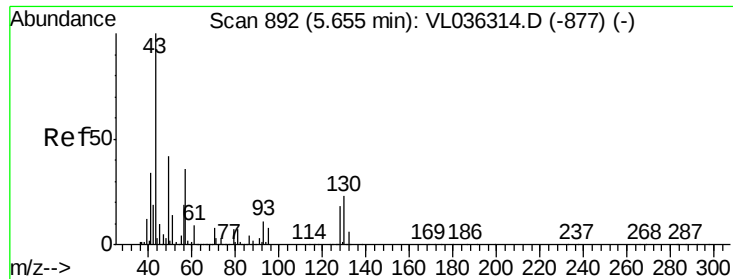
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

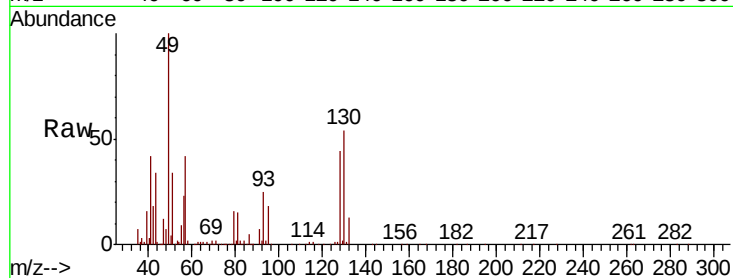




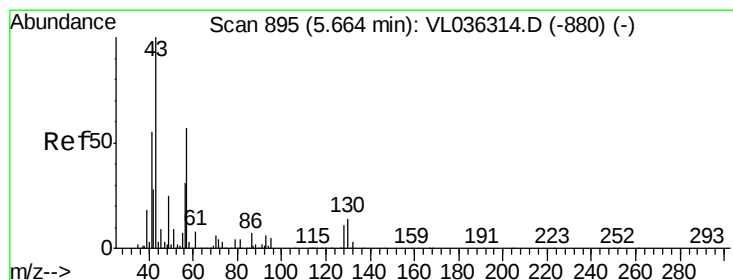
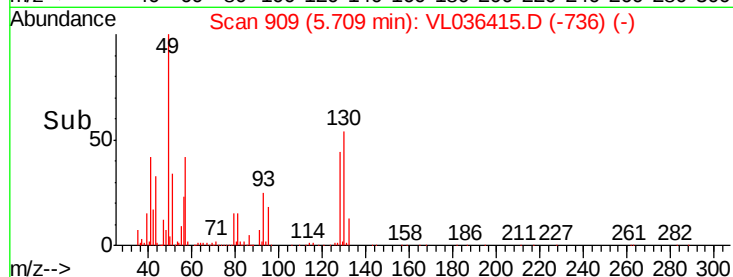
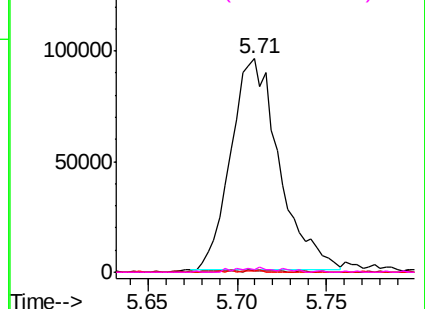
#25
Ethyl Acetate
Concen: 0.447 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.05 min
Lab File: VL036415.D
Acq: 1 Mar 2021 15:16

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	181095
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.3	12.5#
61	0.6	7.3	10.9#
70	2.2	5.4	8.0#

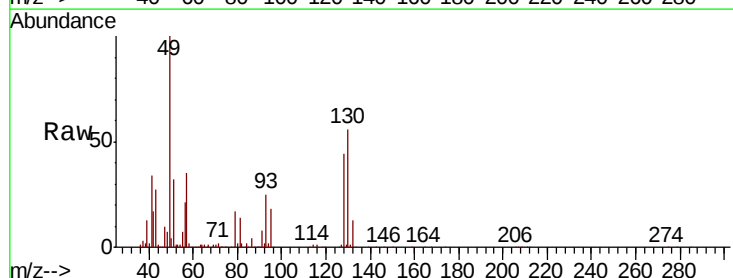


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

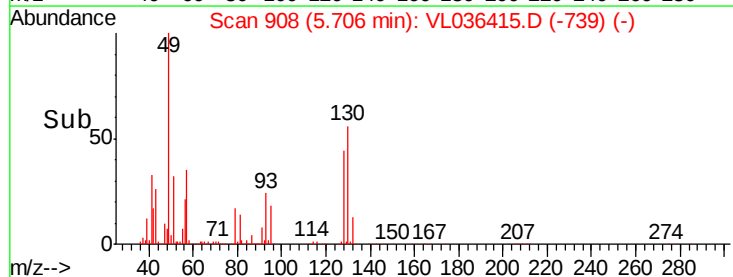
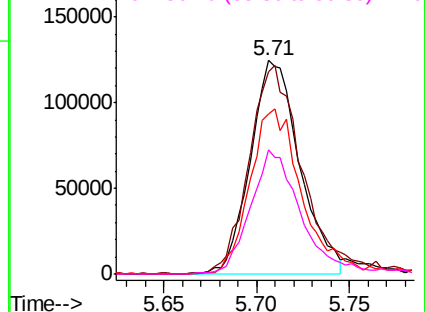


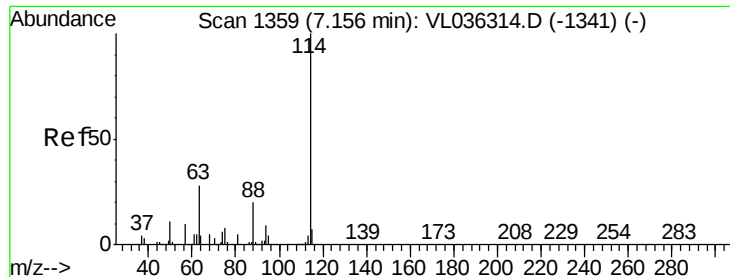
#26
Hexane
Concen: 1.382 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.04 min
Lab File: VL036415.D
Acq: 1 Mar 2021 15:16

Tgt Ion:	57	Resp:	230113
Ion	Ratio	Lower	Upper
57	100		
41	109.4	81.7	122.5
43	83.6	199.1	298.7#
56	61.4	44.0	66.0



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

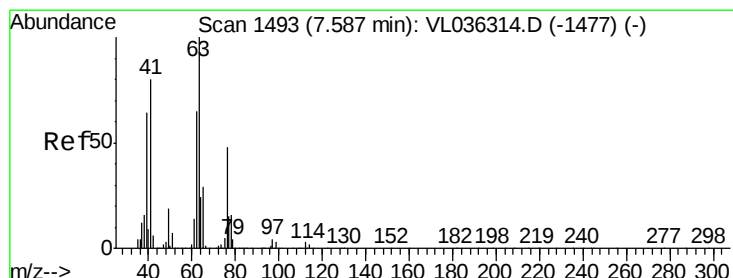
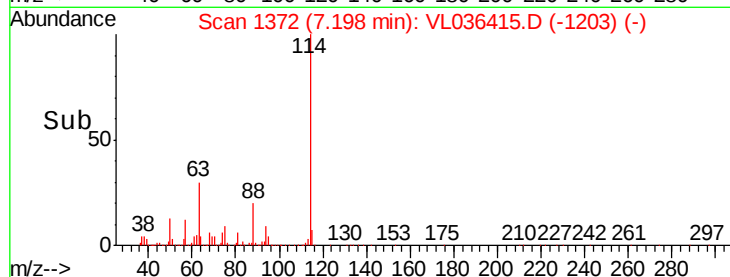
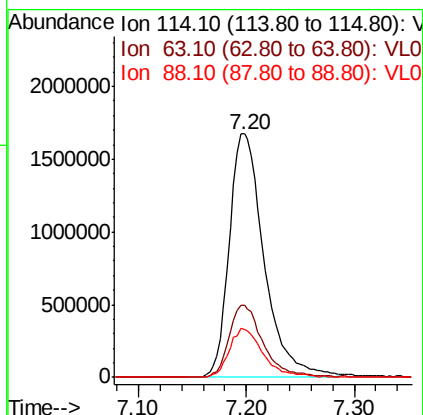
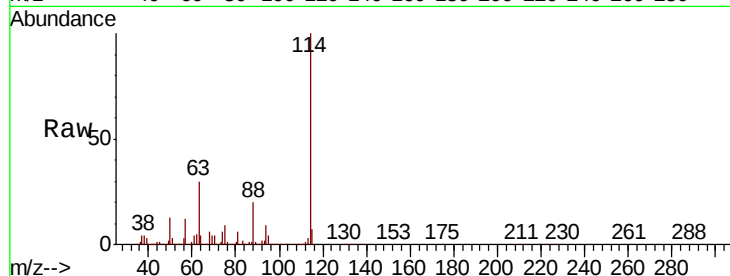




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.04 min
 Lab File: VL036415.D
 Acq: 1 Mar 2021 15:16

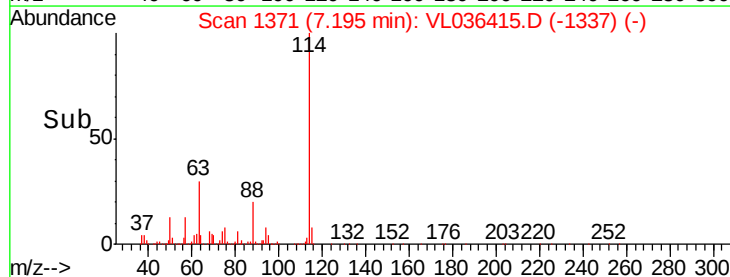
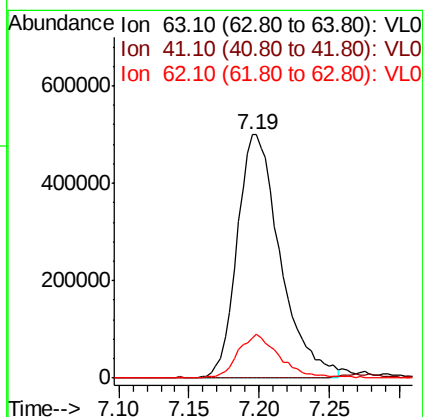
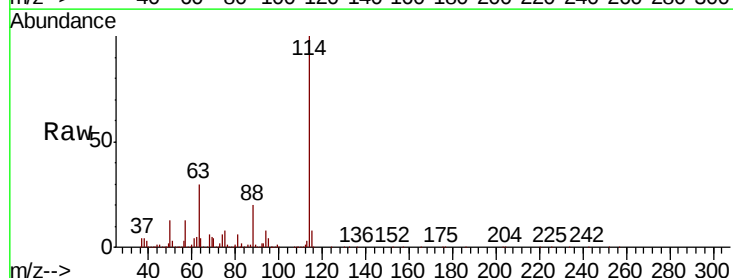
Instrument :
 MSVOA_L
 ClientSampleId :

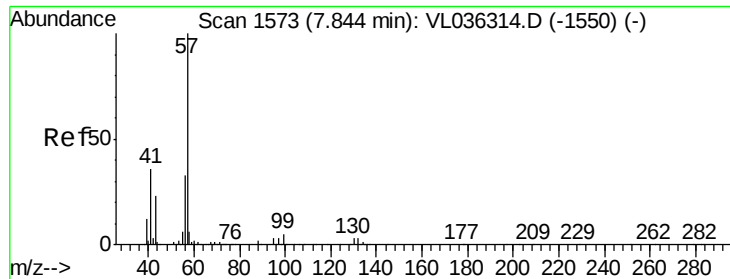
Tot Ion:114 Resp: 3753261
 Ion Ratio Lower Upper
 114 100
 63 29.6 24.1 36.1
 88 19.9 16.0 24.0



#39
 1,2-Dichloropropane
 Concen: 8.284 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.39 min
 Lab File: VL036415.D
 Acq: 1 Mar 2021 15:16

Tgt Ion: 63 Resp: 1072852
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.8 95.6#
 62 16.5 52.3 78.5#

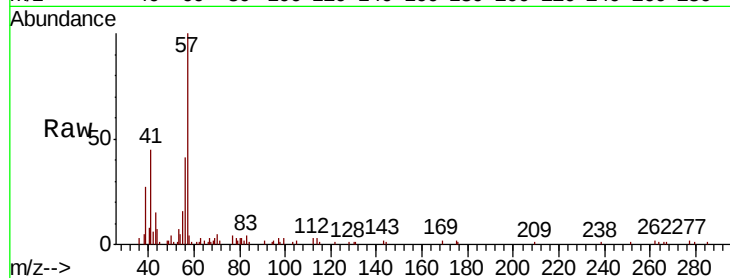




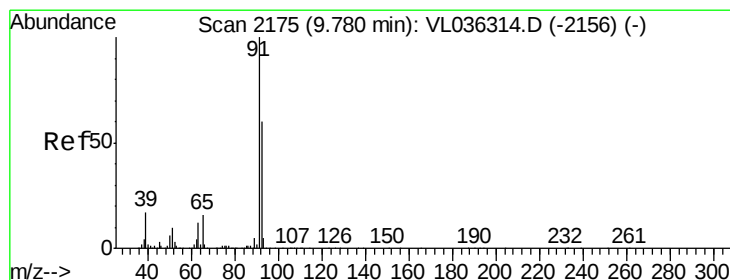
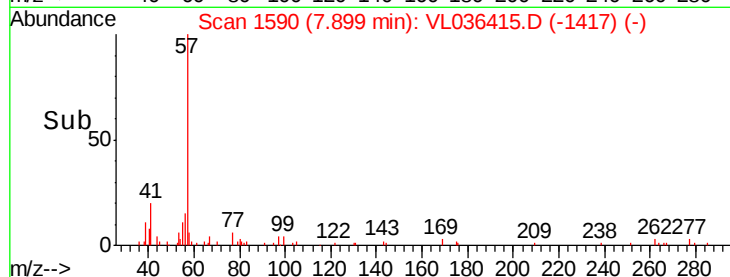
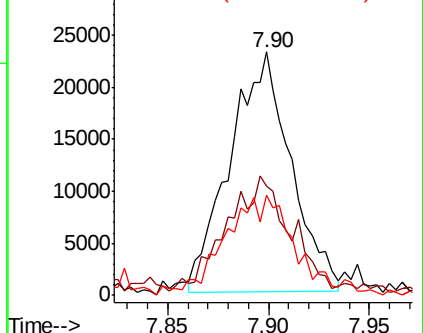
#44
 2,2,4-Trimethylpentane
 Concen: 0.084 ppbv
 RT: 7.90 min Scan# 1590
 Delta R.T. 0.05 min
 Lab File: VL036415.D
 Acq: 1 Mar 2021 15:16

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 57 Resp: 48700
 Ion Ratio Lower Upper
 57 100
 41 52.6 28.8 43.2#
 56 49.0 25.8 38.6#

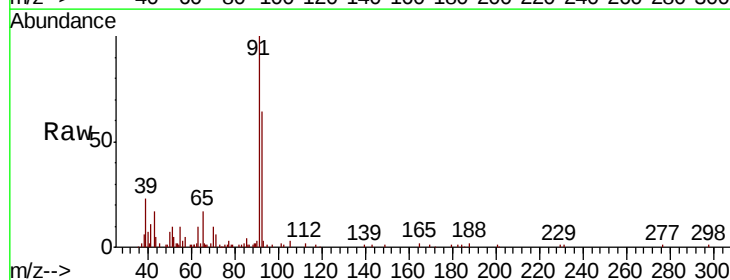


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

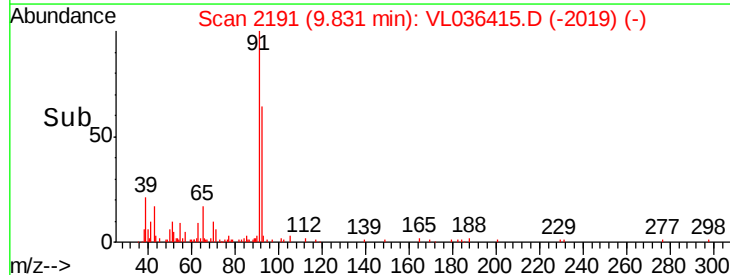
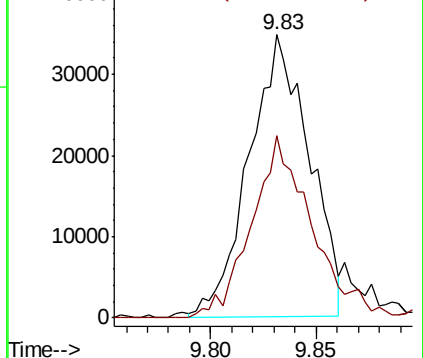


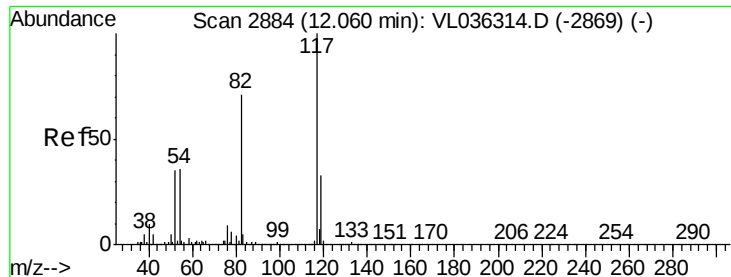
#53
 Toluene
 Concen: 0.200 ppbv
 RT: 9.83 min Scan# 2191
 Delta R.T. 0.05 min
 Lab File: VL036415.D
 Acq: 1 Mar 2021 15:16

Tgt Ion: 91 Resp: 69053
 Ion Ratio Lower Upper
 91 100
 92 66.1 48.6 72.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

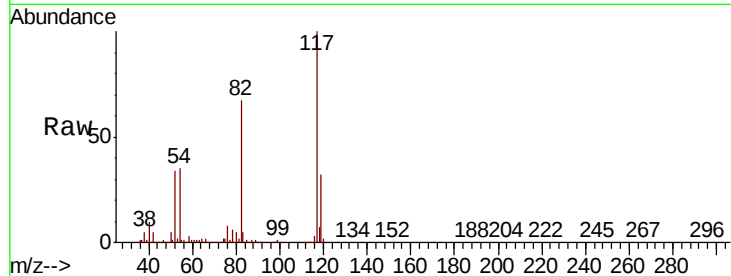




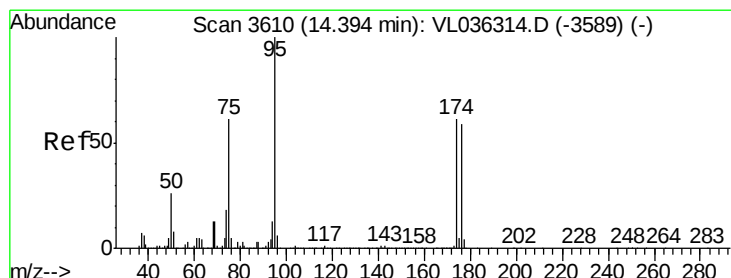
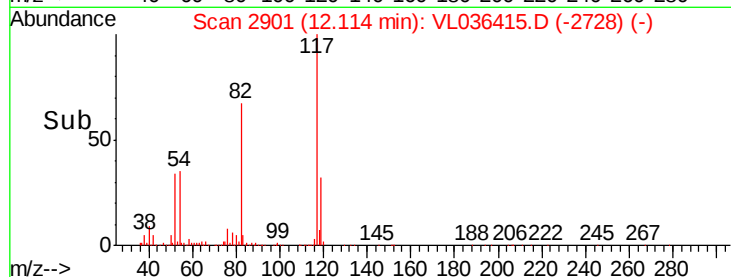
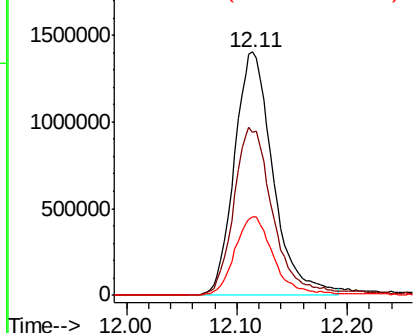
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.05 min
Lab File: VL036415.D
Acq: 1 Mar 2021 15:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3399712
Ion Ratio Lower Upper
117 100
82 72.6 59.1 88.7
119 33.5 46.3 69.5#

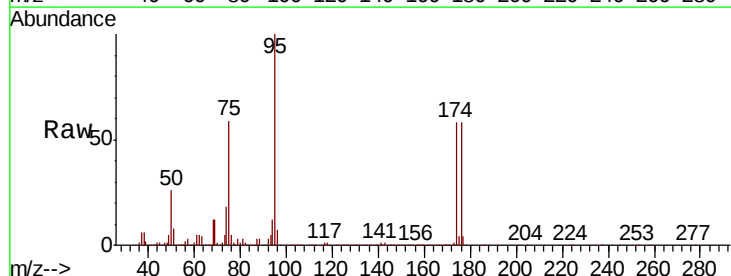


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.567 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. 0.05 min
Lab File: VL036415.D
Acq: 1 Mar 2021 15:16

Tgt Ion: 95 Resp: 2676089
Ion Ratio Lower Upper
95 100
174 62.5 49.8 74.6
175 4.6 3.7 5.5



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

