

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036866.D
 Acq On : 27 Apr 2021 20:30
 Operator : SY/AP
 Sample : M2172-08DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 28 05:26:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1540993	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3633944	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3200319	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2495558	9.71	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

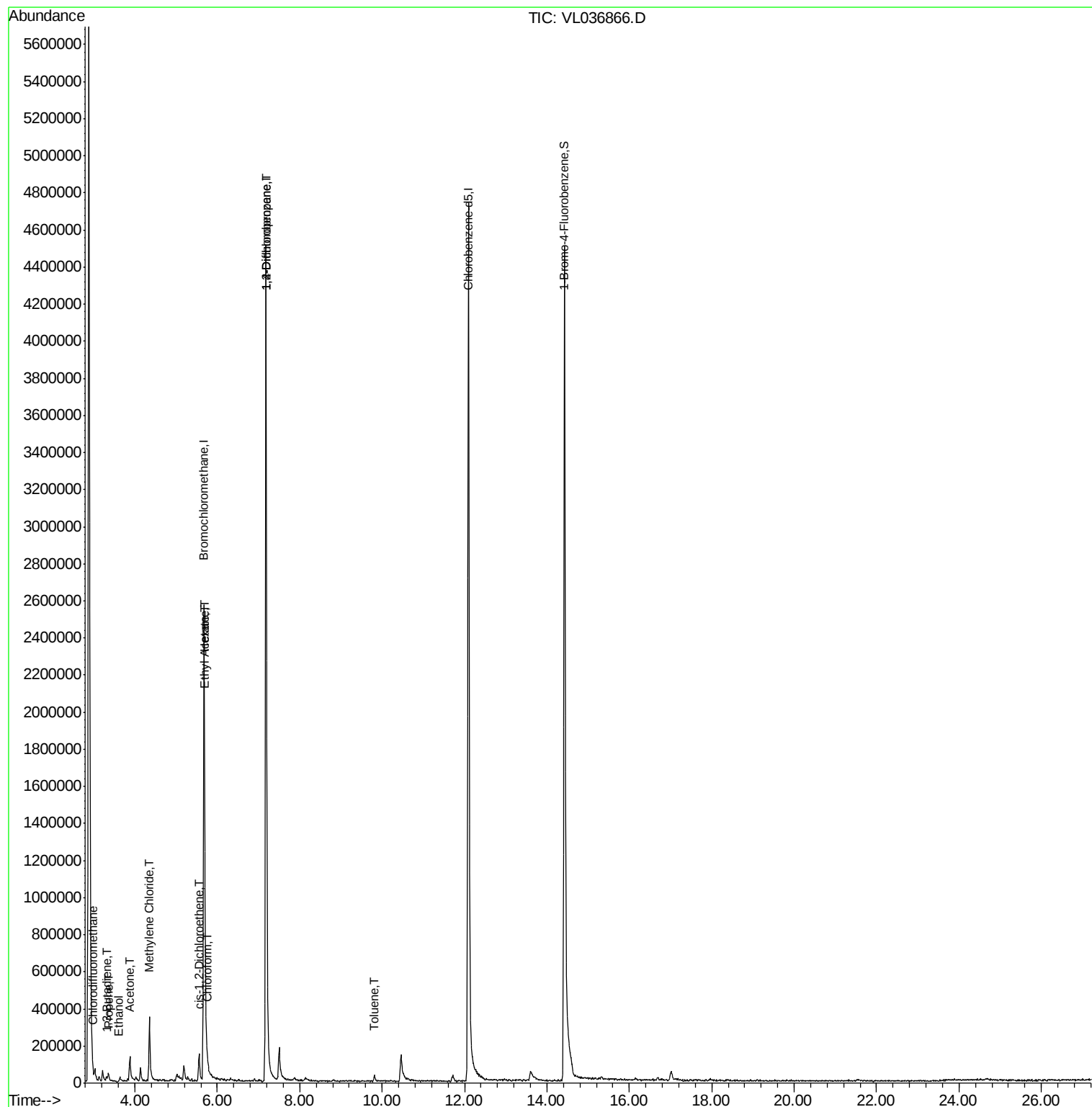
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	16284	0.058	ppbv #	79
9) Propene	3.36	41	8156	0.095	ppbv	92
13) Ethanol	3.61	45	724	0.066	ppbv #	34
15) Acetone	3.88	43	95386	0.657	ppbv #	59
16) 1,3-Butadiene	3.32	39	3504	0.038	ppbv #	12
20) Methylene Chloride	4.35	84	133257	1.919	ppbv	96
25) Ethyl Acetate	5.70	43	85205	0.240	ppbv #	87
26) Hexane	5.69	57	95363	0.575	ppbv #	46
29) Chloroform	5.75	83	9878	0.038	ppbv	93
31) cis-1,2-Dichloroethene	5.56	61	93573	0.628	ppbv	97
39) 1,2-Dichloropropane	7.18	63	969585	7.904	ppbv #	24
53) Toluene	9.81	91	15060	0.047	ppbv #	75

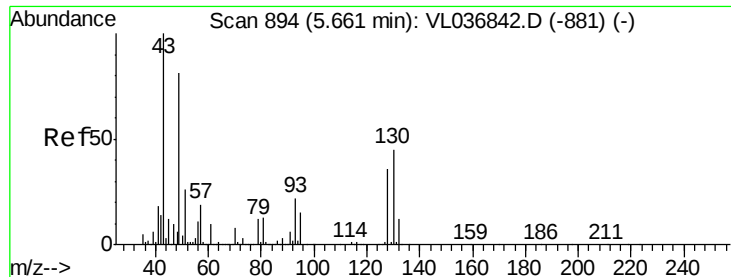
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 27 16:56:35 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 20:30

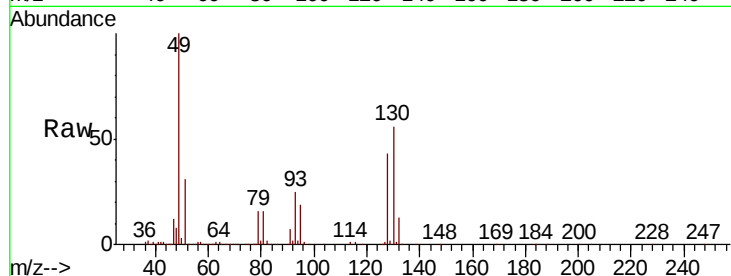
Tot Ion: 49 Resp: 1540993

Ion Ratio Lower Upper

49 100

128 46.8 24.4 73.2

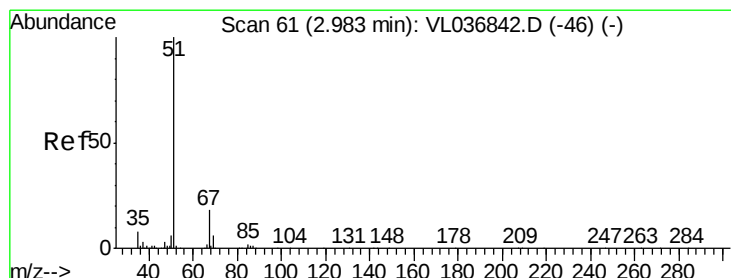
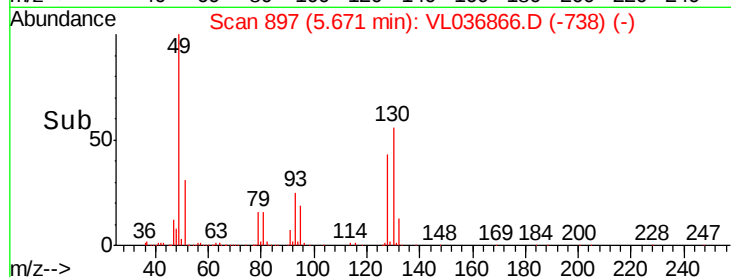
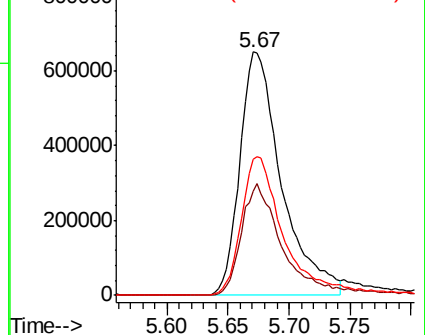
130 59.3 30.3 90.8



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: 0.058 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036866.D

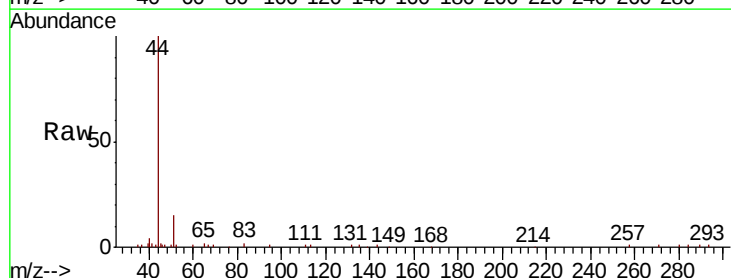
Acq: 27 Apr 2021 20:30

Tgt Ion: 51 Resp: 16284

Ion Ratio Lower Upper

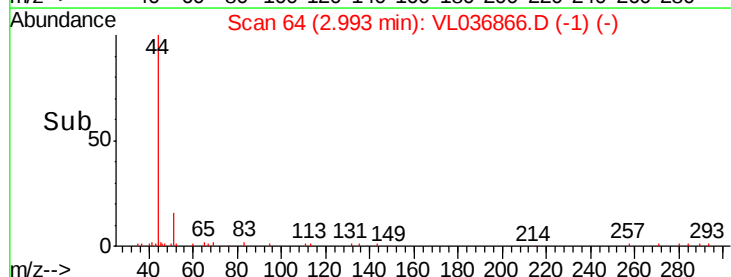
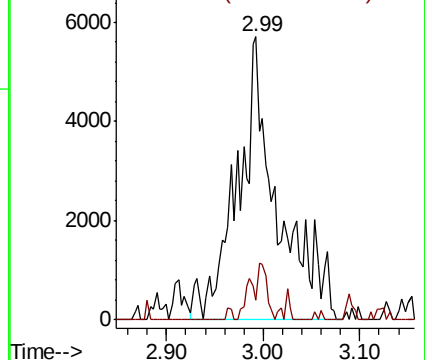
51 100

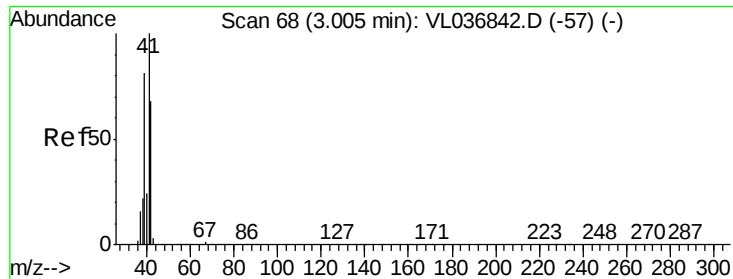
67 9.1 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.095 ppbv

RT: 3.36 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

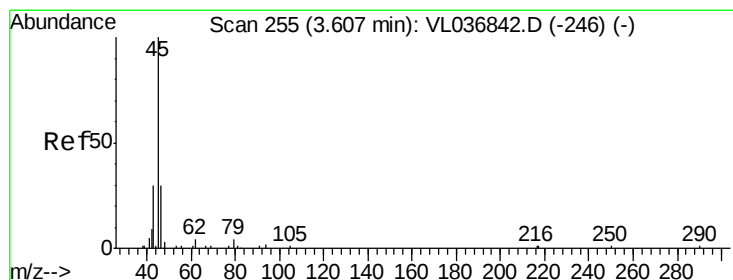
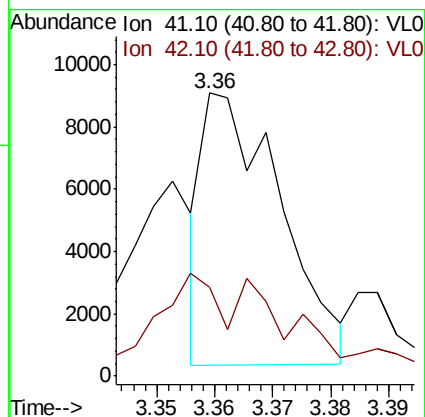
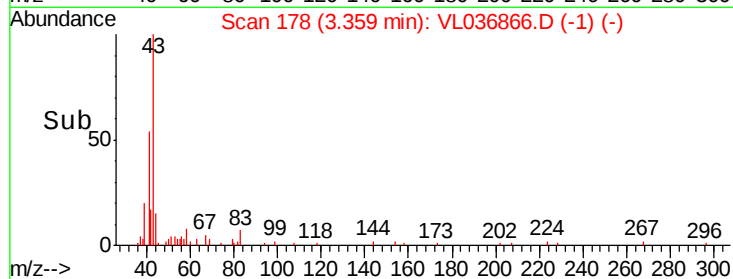
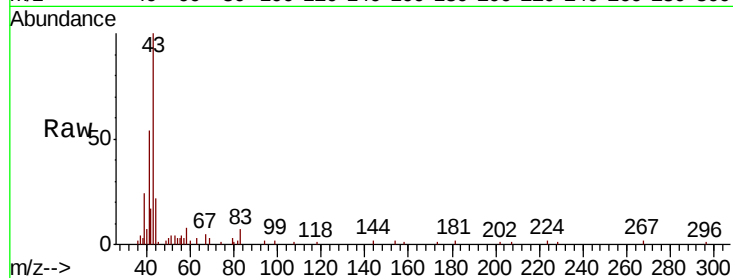
Acq: 27 Apr 2021 20:30

Tot Ion: 41 Resp: 8156

Ion Ratio Lower Upper

41 100

42 76.8 56.0 84.0



#13

Ethanol

Concen: 0.066 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL036866.D

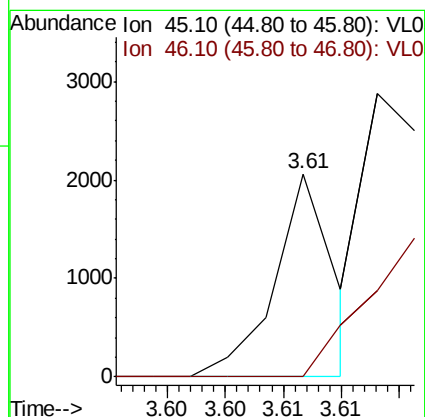
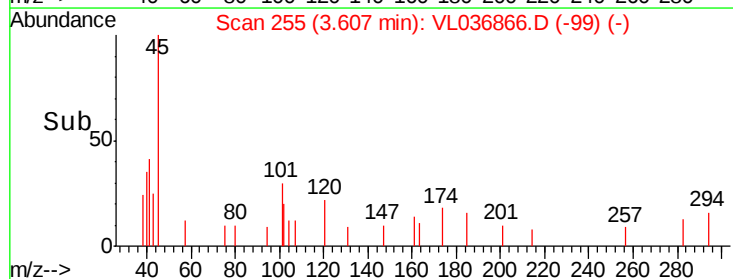
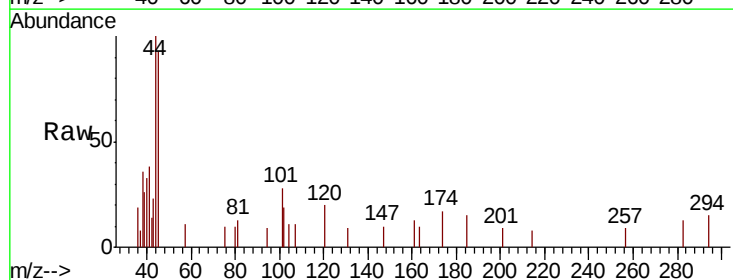
Acq: 27 Apr 2021 20:30

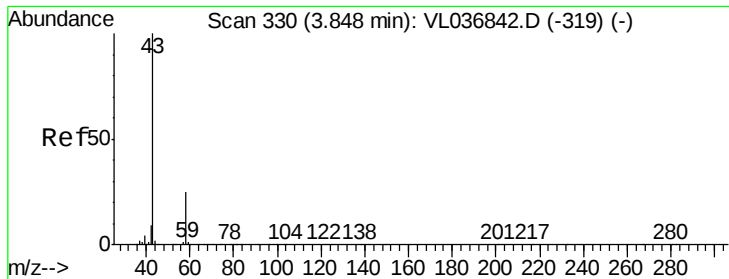
Tgt Ion: 45 Resp: 724

Ion Ratio Lower Upper

45 100

46 0.0 16.8 67.4#





#15

Acetone

Concen: 0.657 ppbv

RT: 3.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

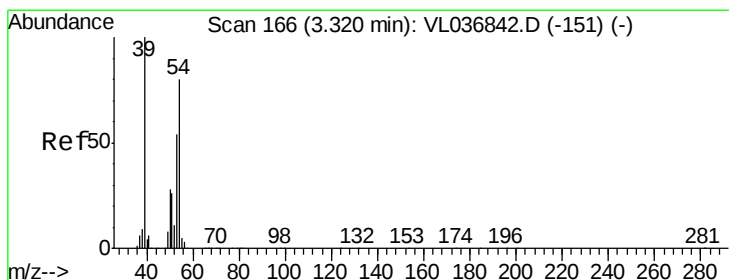
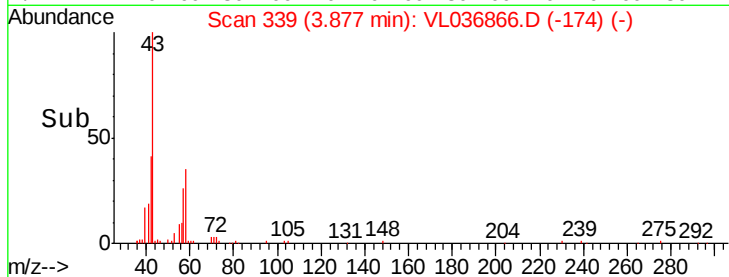
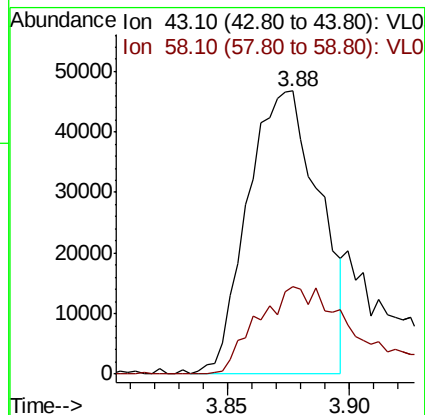
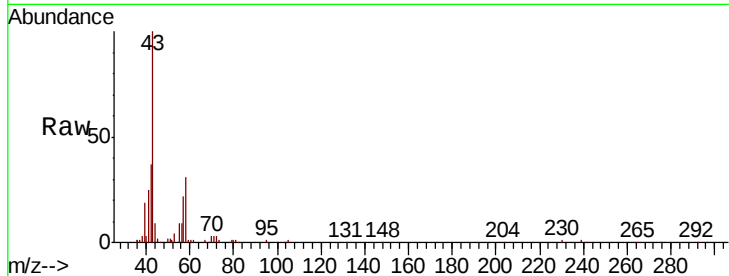
Acq: 27 Apr 2021 20:30

Tot Ion: 43 Resp: 95386

Ion Ratio Lower Upper

43 100

58 48.2 21.7 32.5#



#16

1,3-Butadiene

Concen: 0.038 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL036866.D

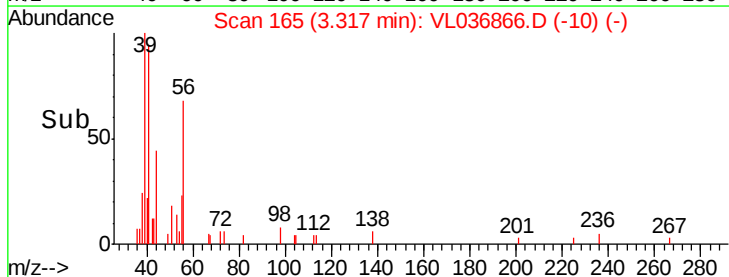
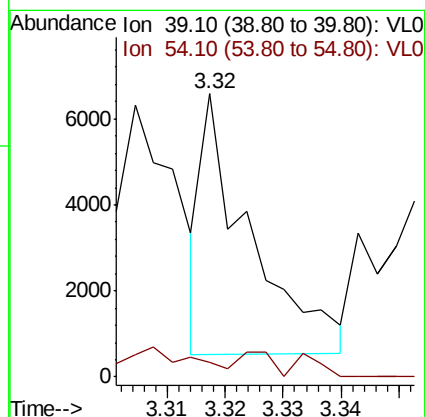
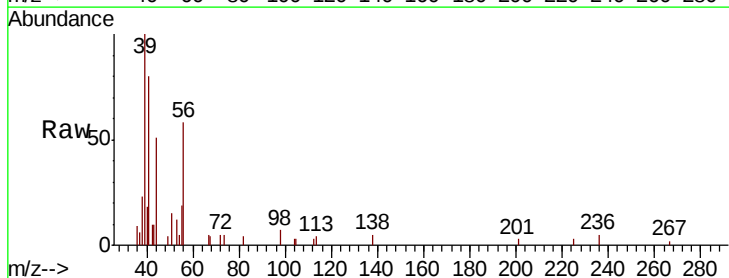
Acq: 27 Apr 2021 20:30

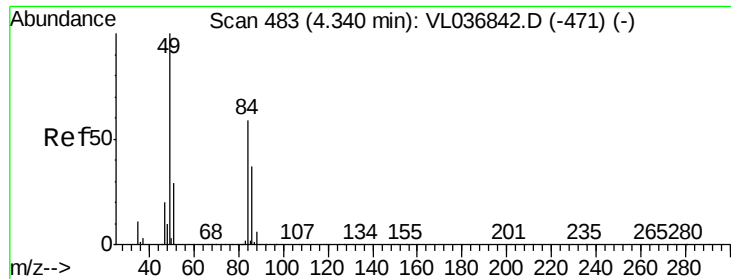
Tgt Ion: 39 Resp: 3504

Ion Ratio Lower Upper

39 100

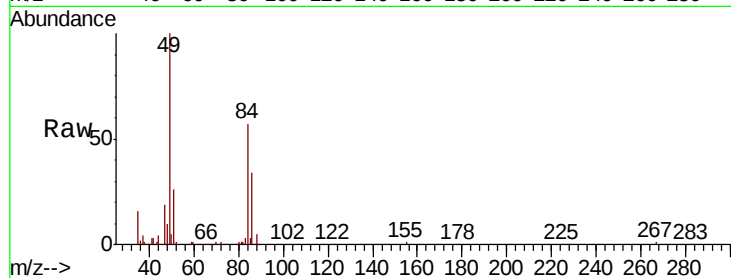
54 0.0 59.6 89.4#



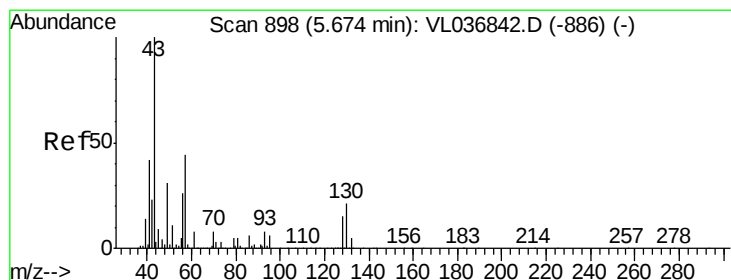
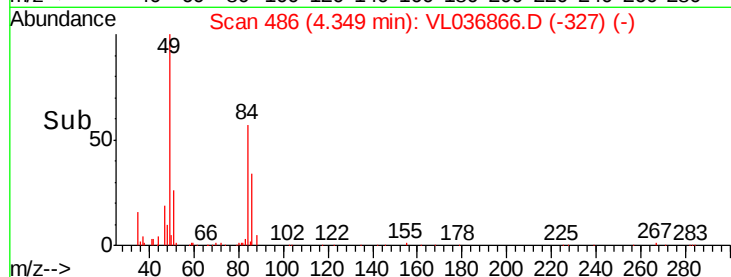
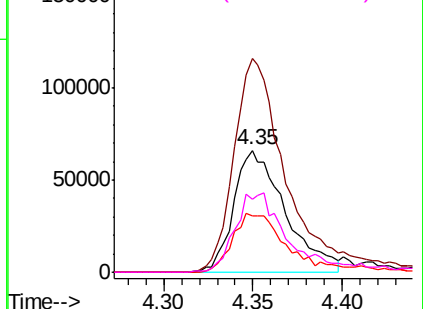


#20
Methvlene Chloride
Concen: 1.919 ppbv
RT: 4.35 Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 27 Apr 2021 20:30

Tot Ion:	84	Resp:	133257
Ion	Ratio	Lower	Upper
84	100		
49	175.0	135.4	203.0
51	46.3	39.3	58.9
86	59.7	50.2	75.2

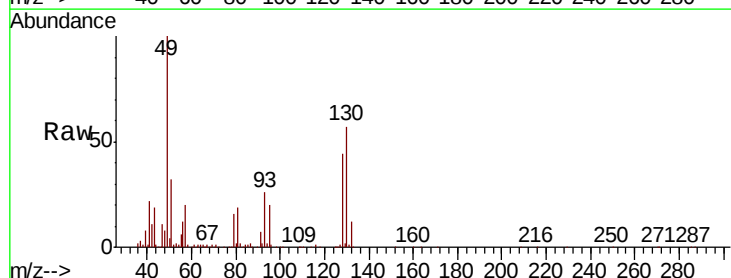


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

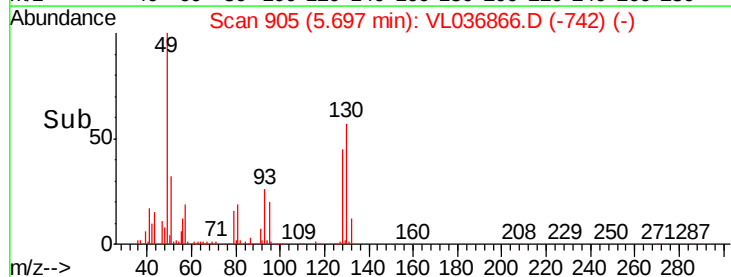
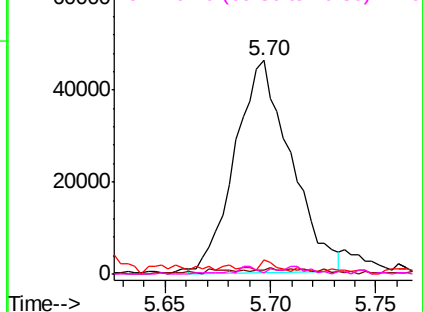


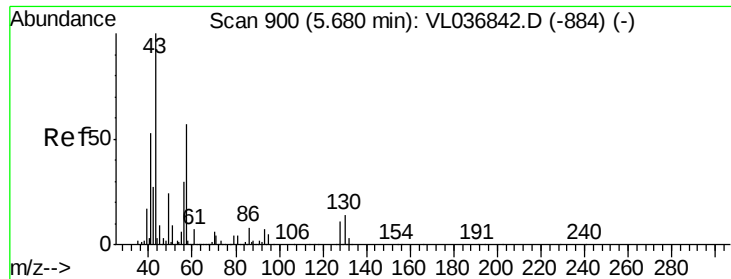
#25
Ethyl Acetate
Concen: 0.240 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.02 min
Lab File: VL036866.D
Acq: 27 Apr 2021 20:30

Tgt Ion:	43	Resp:	85205
Ion	Ratio	Lower	Upper
43	100		
45	4.3	7.8	11.8#
61	4.2	7.4	11.0#
70	3.6	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: 0.575 ppbv

RT: 5.69 Instrument:

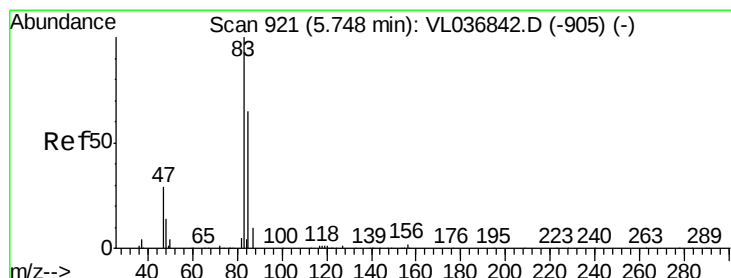
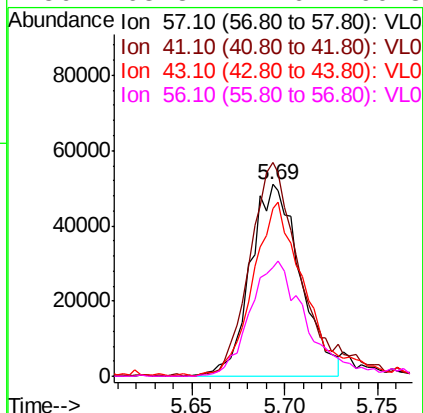
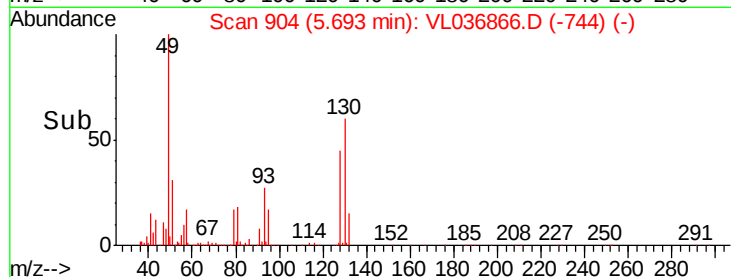
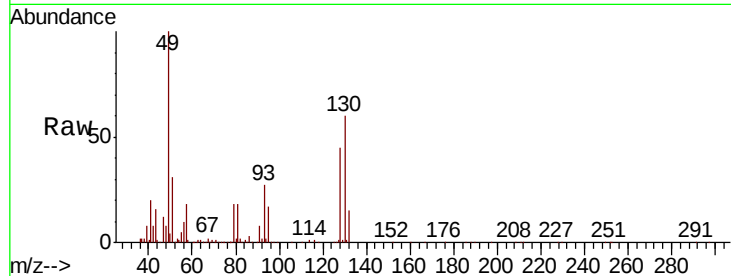
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 20:30

Tot Ion: 57 Resp: 95363

Ion	Ratio	Lower	Upper
57	100		
41	114.3	77.7	116.5
43	96.8	180.5	270.7#
56	68.8	44.6	66.8#



#29

Chloroform

Concen: 0.038 ppbv

RT: 5.75 min Scan# 923

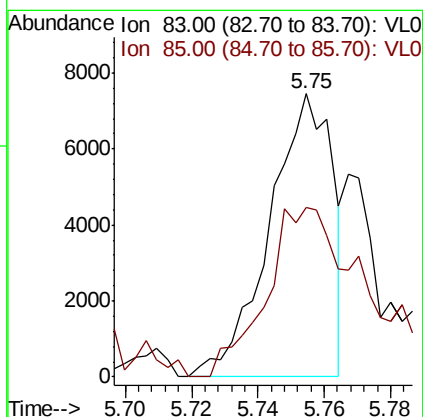
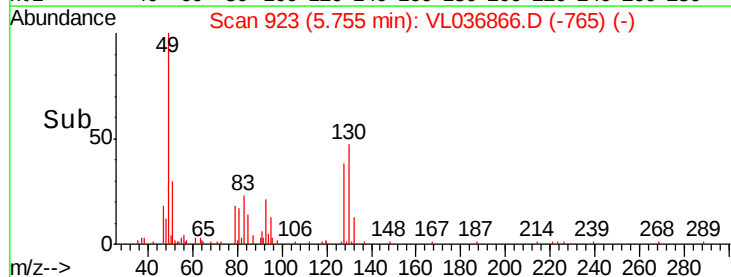
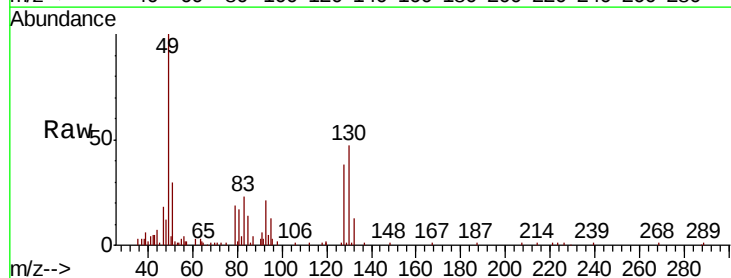
Delta R.T. 0.01 min

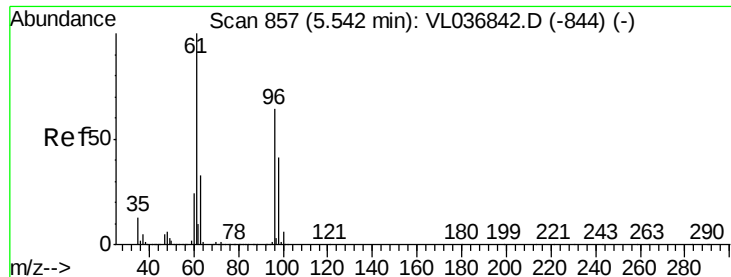
Lab File: VL036866.D

Acq: 27 Apr 2021 20:30

Tgt Ion: 83 Resp: 9878

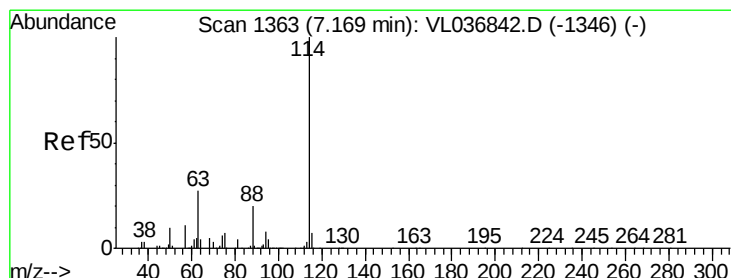
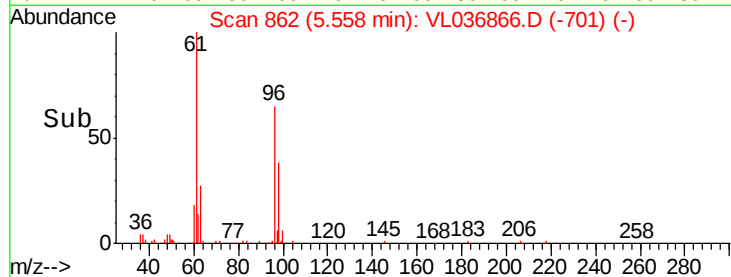
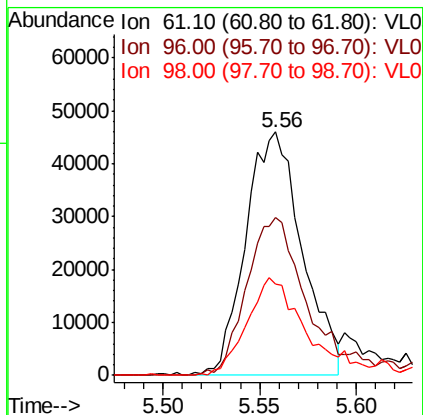
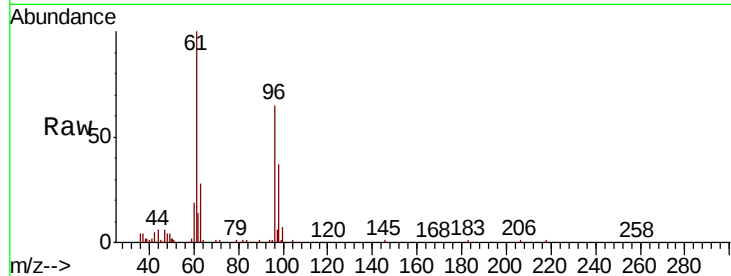
Ion	Ratio	Lower	Upper
83	100		
85	60.0	52.2	78.4





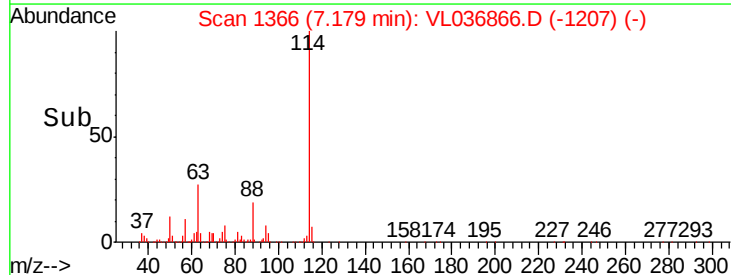
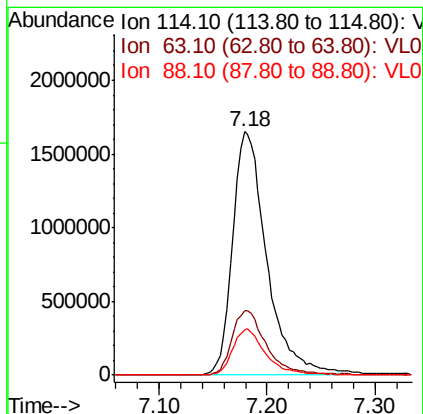
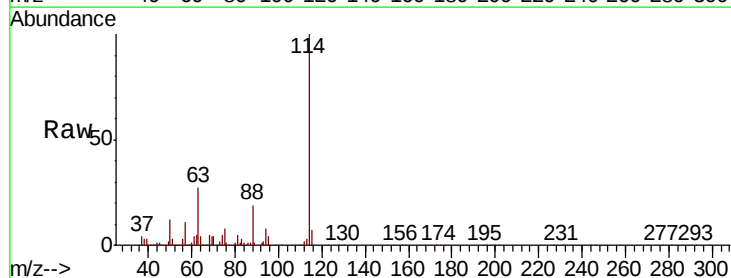
#31
 cis-1,2-Dichloroethene
 Concen: 0.628 ppbv
 RT: 5.56 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 20:30

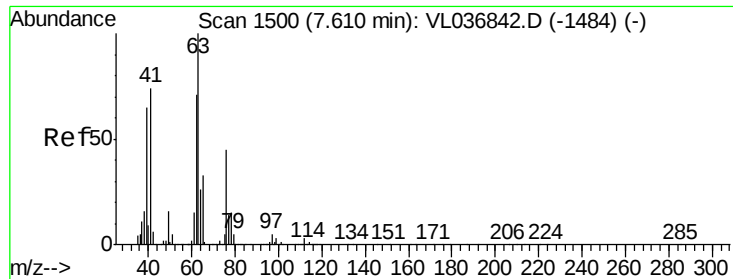
Tot Ion	61	Resp	93573
Ion Ratio	Lower	Upper	
61	100		
96	64.6	51.0	76.6
98	37.3	32.7	49.1



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL036866.D
 Acq: 27 Apr 2021 20:30

Tgt Ion	114	Resp	3633944
Ion Ratio	Lower	Upper	
114	100		
63	27.3	21.9	32.9
88	18.6	15.1	22.7





#39

1,2-Dichloropropane

Concen: 7.904 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 20:30

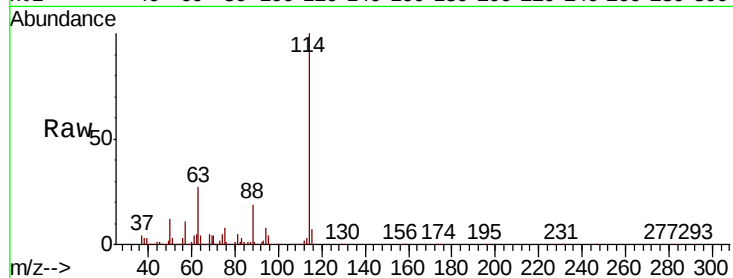
Tot Ion: 63 Resp: 969585

Ion Ratio Lower Upper

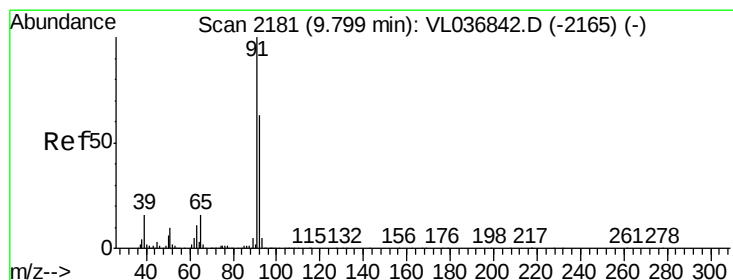
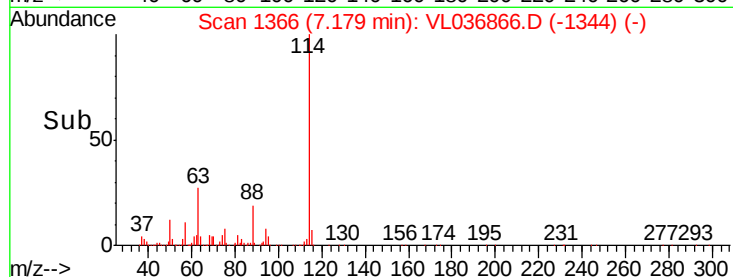
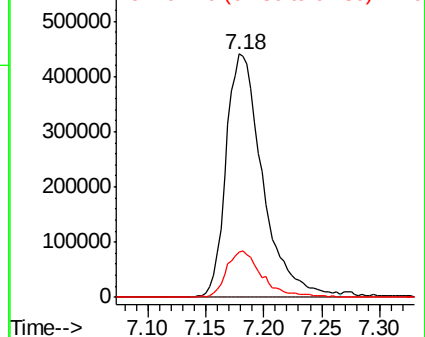
63 100

41 0.0 59.1 88.7#

62 18.6 56.9 85.3#



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



#53

Toluene

Concen: 0.047 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL036866.D

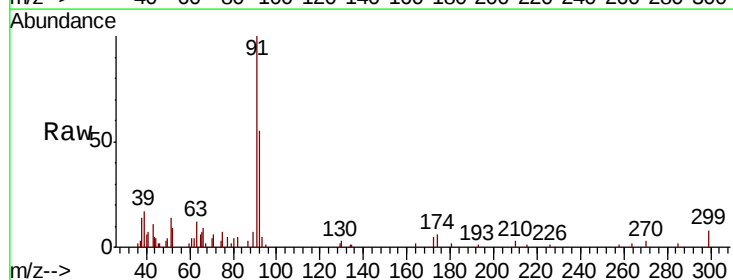
Acq: 27 Apr 2021 20:30

Tgt Ion: 91 Resp: 15060

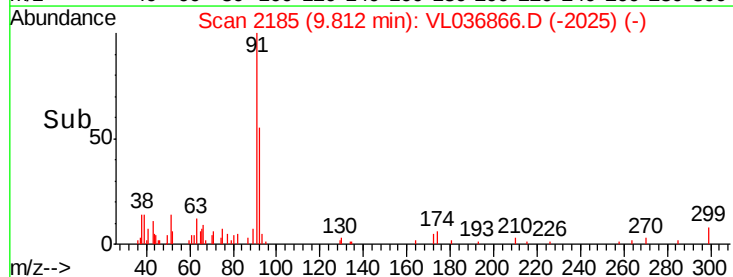
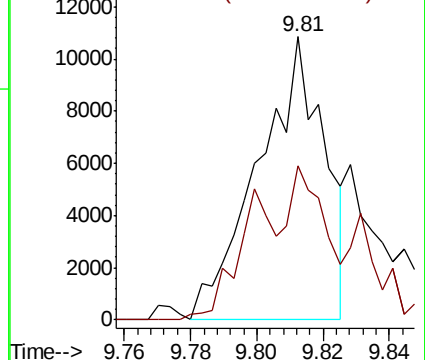
Ion Ratio Lower Upper

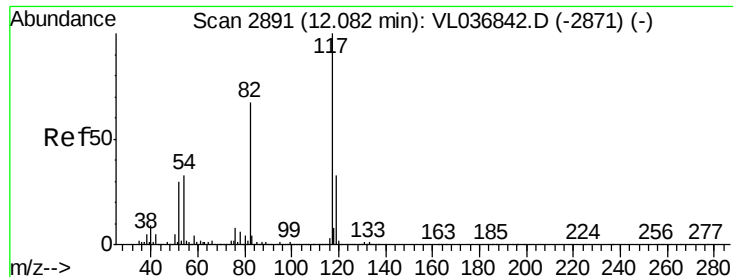
91 100

92 80.2 49.0 73.4#



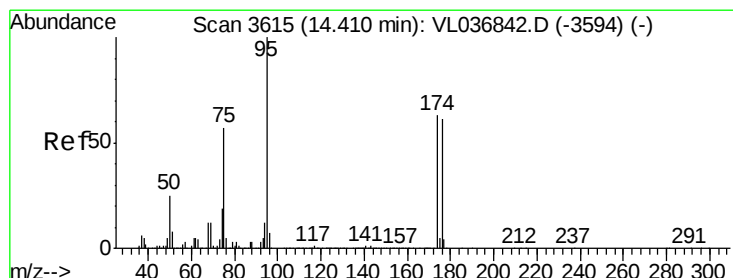
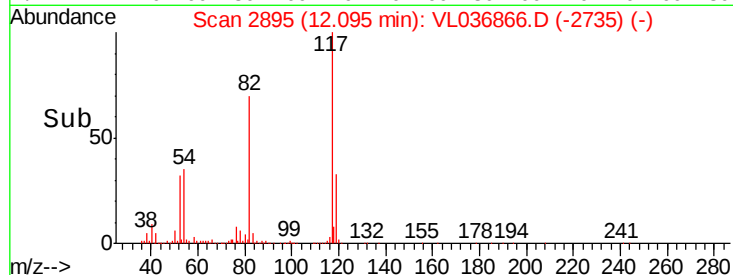
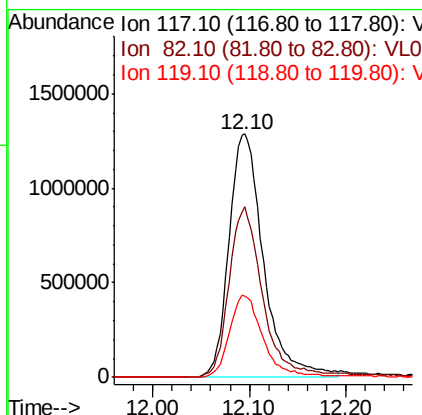
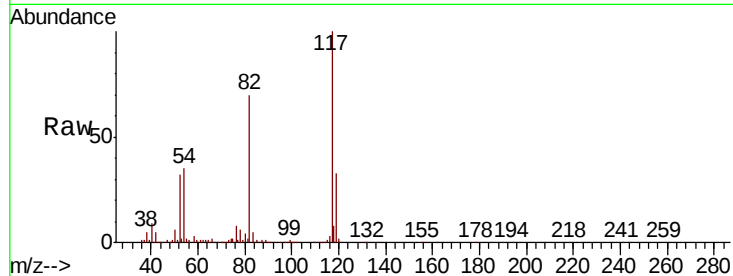
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 20:30

Tot Ion: 117 Resp: 3200319
 Ion Ratio Lower Upper
 117 100
 82 70.3 53.5 80.3
 119 33.6 25.6 38.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.714 ppbv
 RT: 14.43 min Scan# 3620
 Delta R.T.: 0.02 min
 Lab File: VL036866.D
 Acq: 27 Apr 2021 20:30

Tgt Ion: 95 Resp: 2495558
 Ion Ratio Lower Upper
 95 100
 174 66.9 52.2 78.2
 175 4.6 4.0 6.0

