

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037086.D
 Acq On : 2 Jun 2021 1:35
 Operator : SY/AP
 Sample : M2548-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1A

Manual Integrations
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MMDadoda
 6/7/2021 2:59:25 PM

Quant Time: Jun 06 21:28:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1347247	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3958860	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3465718	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2661208	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	142529	0.624	ppbv	95
4) Chloromethane	3.13	50	53197	0.633	ppbv	89
9) Propene	3.01	41	272579m	3.084	ppbv	
11) Trichlorofluoromethane	3.93	101	92925	0.439	ppbv	99
13) Ethanol	3.59	45	5423564	459.927	ppbv	94
15) Acetone	3.83	43	2360157	17.103	ppbv	96
17) tert-Butyl alcohol	4.29	59	24787m	0.196	ppbv	
19) Isopropyl Alcohol	3.96	45	3682744	49.647	ppbv #	34
20) Methylene Chloride	4.33	84	130375	1.763	ppbv	95
26) Hexane	5.67	57	108763	0.642	ppbv #	62
29) Chloroform	5.74	83	392151	1.639	ppbv	99
34) 2-Butanone	5.24	43	101629	0.705	ppbv	95
35) Carbon Tetrachloride	7.01	117	15610m	0.059	ppbv	
36) Benzene	6.88	78	47522m	0.139	ppbv	
53) Toluene	9.79	91	112782	0.278	ppbv	99
59) m/p-Xylene	12.95	91	62515m	0.155	ppbv	
69) p-Isopropyltoluene	17.64	119	276634	0.472	ppbv	97

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

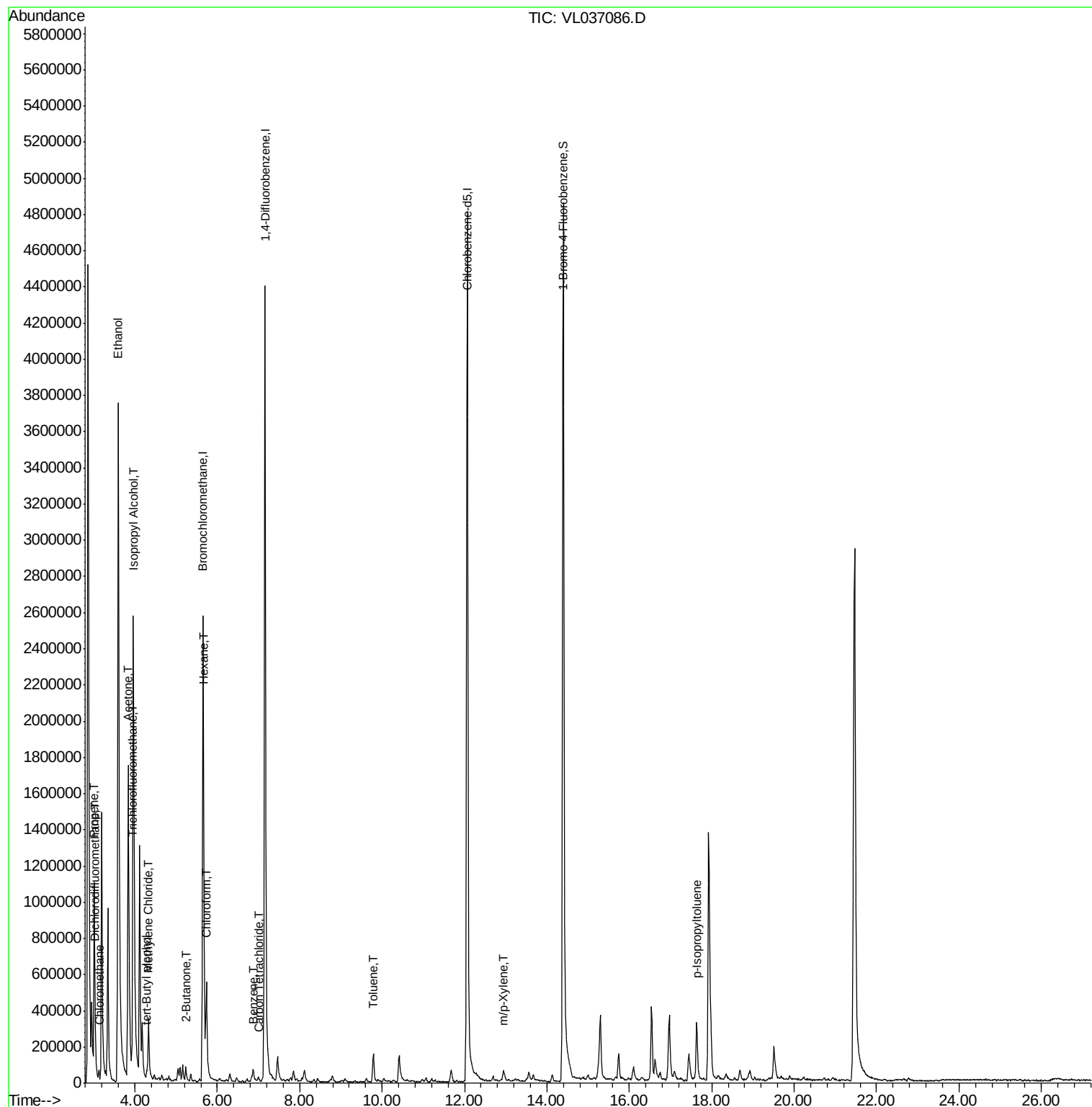
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037086.D
Acq On : 2 Jun 2021 1:35
Operator : SY/AP
Sample : M2548-04
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

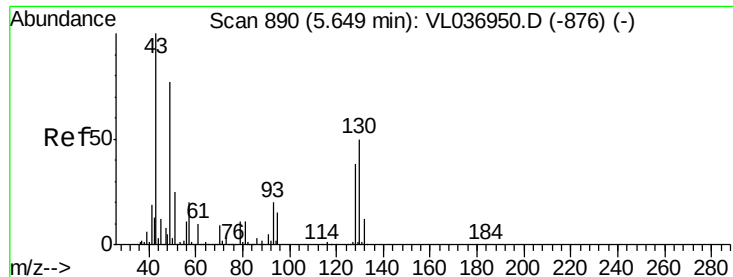
Instrument :
MSVOA_L
ClientSampleId :
IA-1A

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Quant Time: Jun 06 21:28:28 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

ClientSampled :

IA-1A

Tot Ion: 49 Resp: 1347247

Ion Ratio Lower Upper

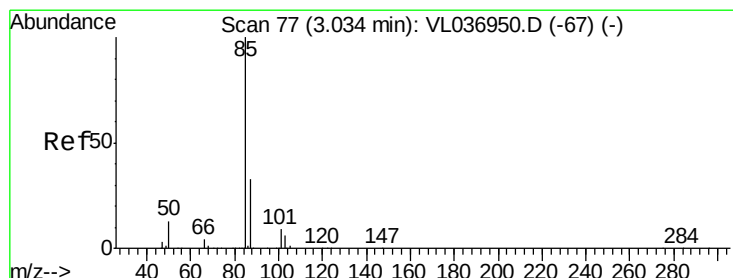
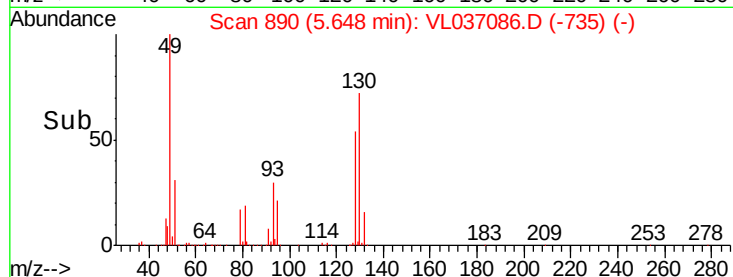
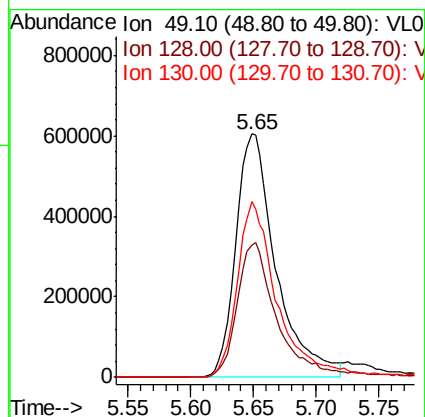
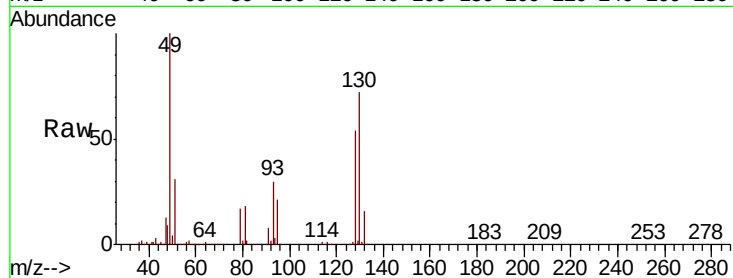
49 100

128 56.8 26.9 80.7

130 72.8 33.8 101.4

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#2

Dichlorodifluoromethane

Concen: 0.624 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL037086.D

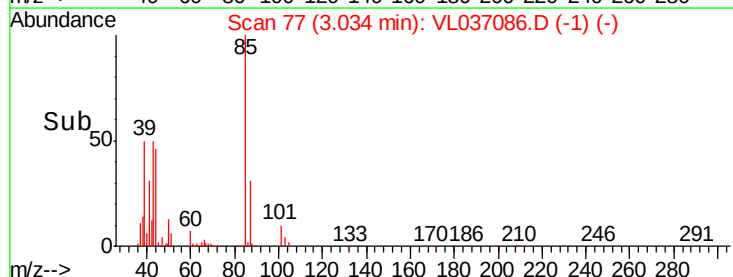
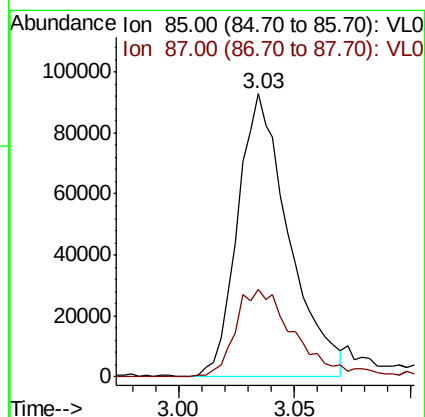
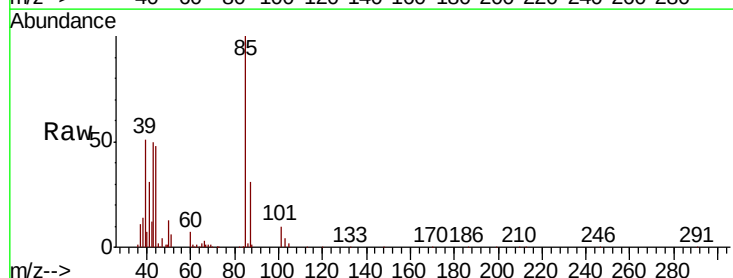
Acq: 2 Jun 2021 1:35

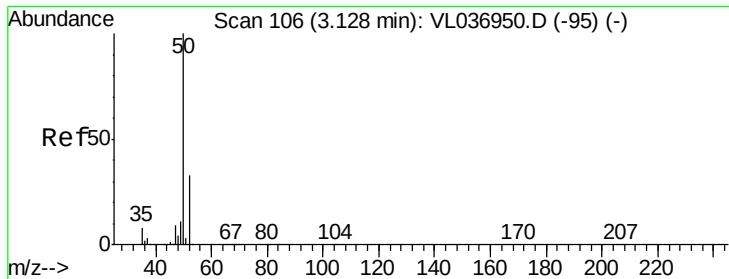
Tgt Ion: 85 Resp: 142529

Ion Ratio Lower Upper

85 100

87 30.5 26.6 39.8





#4

Chloromethane

Concen: 0.633 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

ClientSampled :

IA-1A

Tot Ion: 50 Resp: 53197

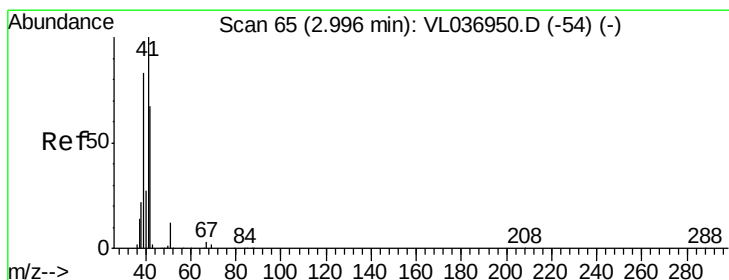
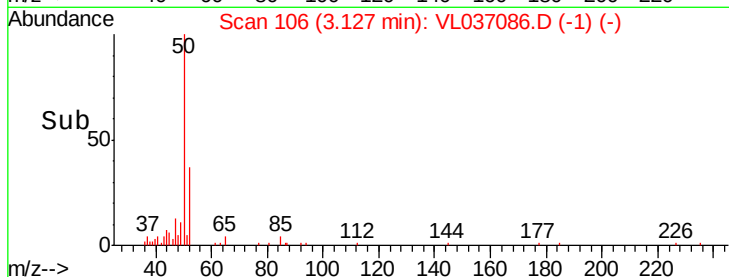
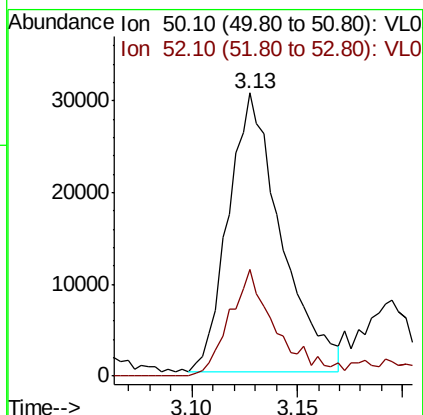
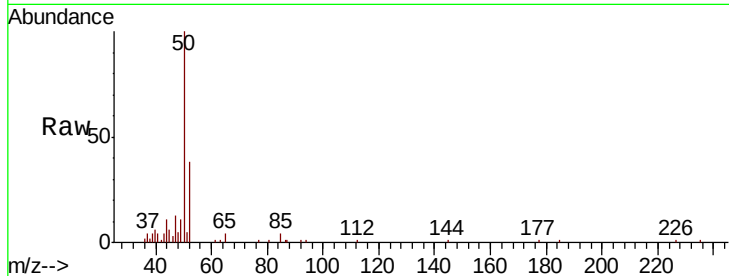
Ion Ratio Lower Upper

50 100

52 38.8 26.1 39.1

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#9

Propene

Concen: 3.084 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037086.D

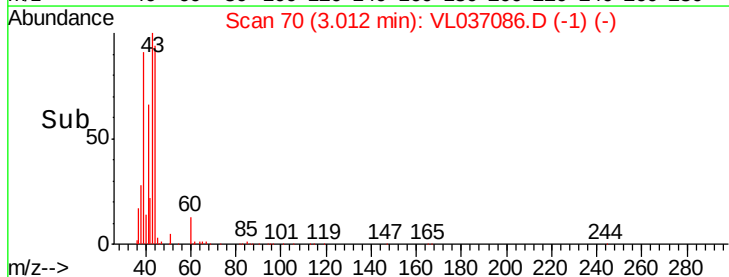
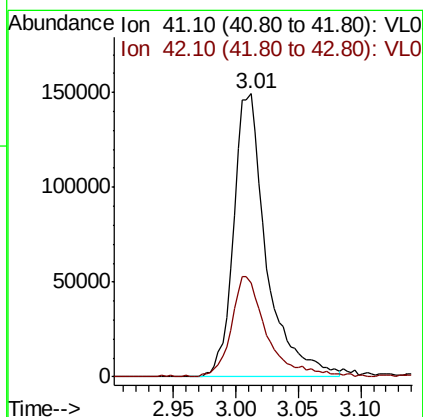
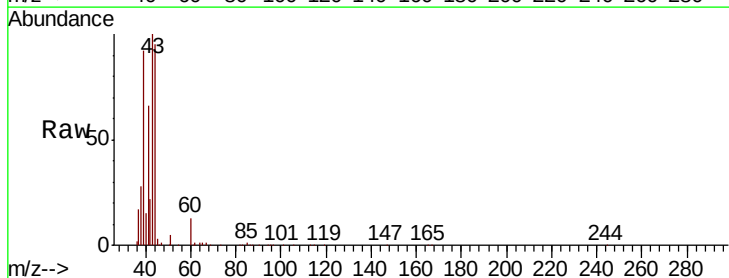
Acq: 2 Jun 2021 1:35

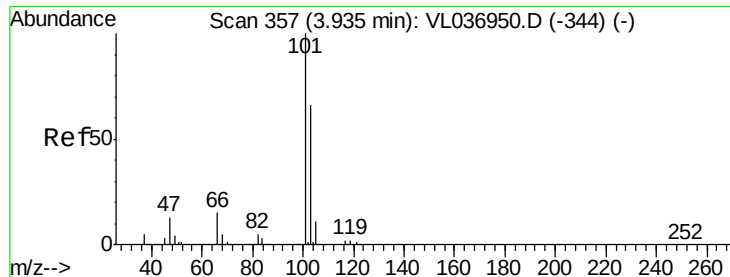
Tgt Ion: 41 Resp: 272579

Ion Ratio Lower Upper

41 100

42 129.8 53.9 80.9#





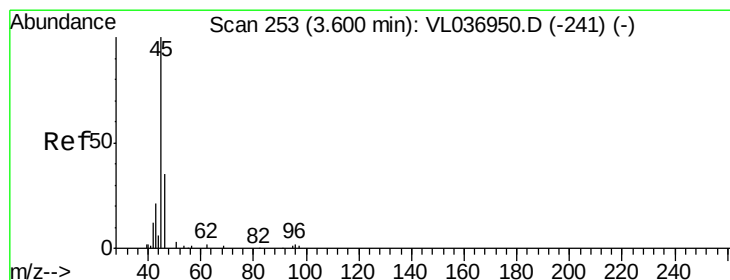
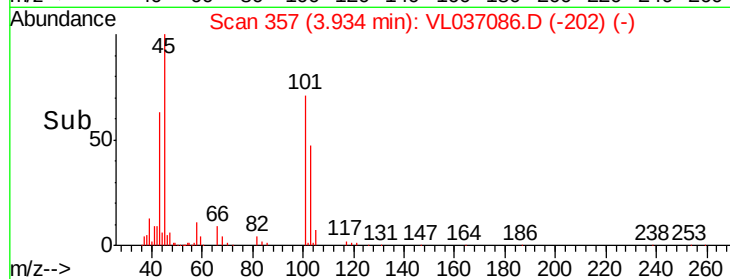
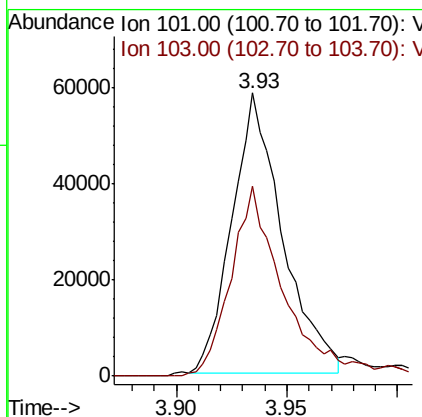
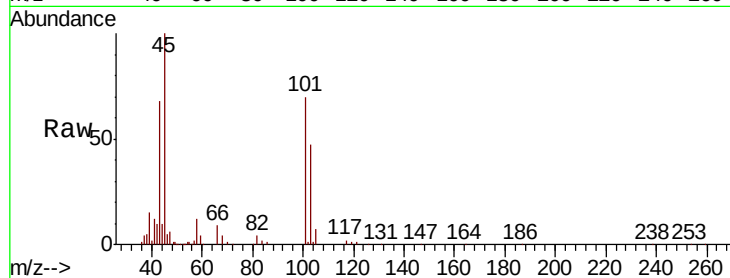
#11
 Trichlorofluoromethane
 Concen: 0.439 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1A

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.9	52.6	79.0

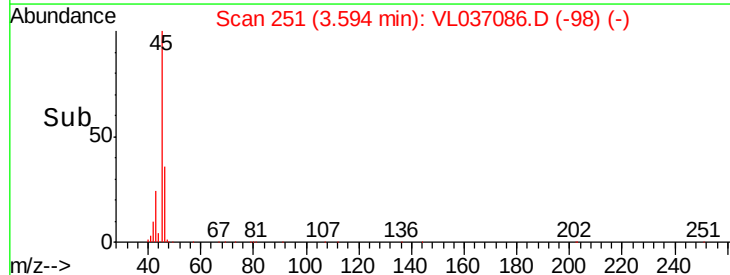
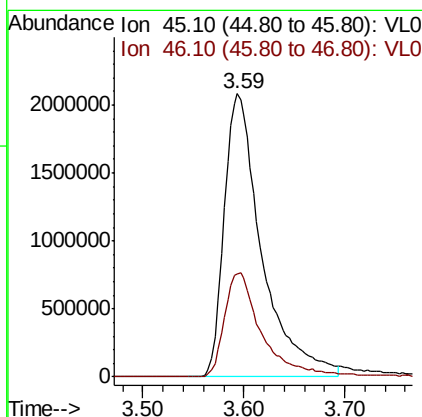
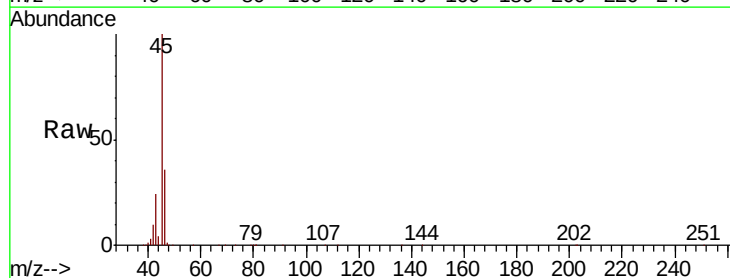
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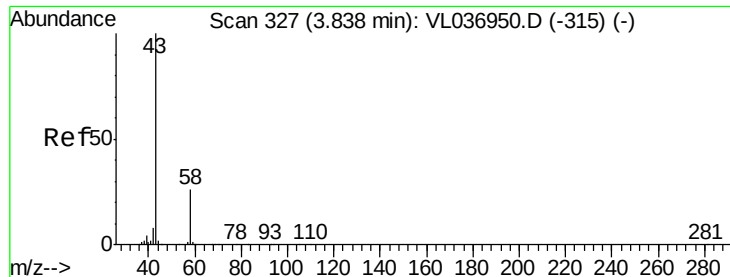
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#13
 Ethanol
 Concen: 459.927 ppbv
 RT: 3.59 min Scan# 251
 Delta R.T. -0.01 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.4	16.3	65.3





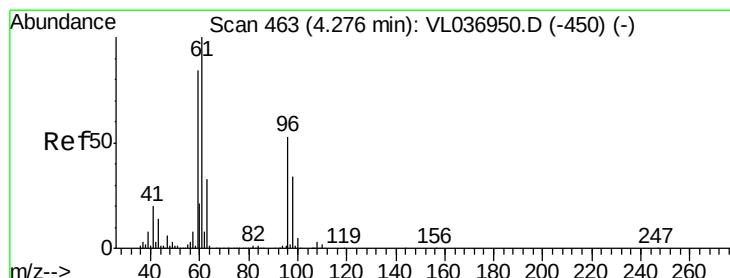
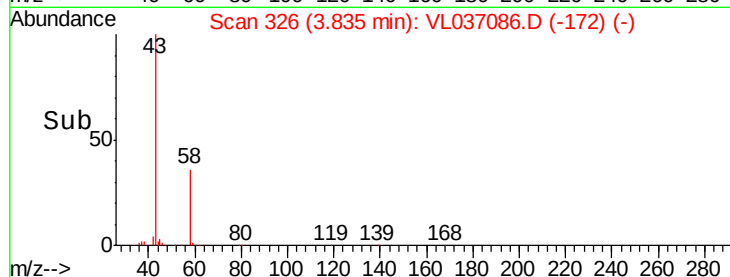
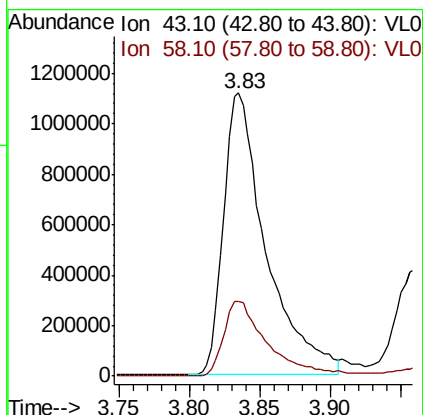
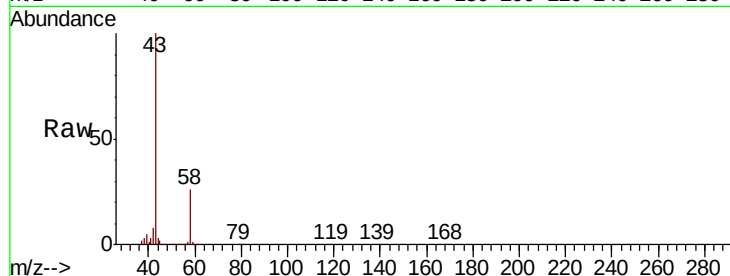
#15
Acetone
Concen: 17.103 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tot Ion: 43 Resp: 2360157
Ion Ratio Lower Upper
43 100
58 27.8 24.0 36.0

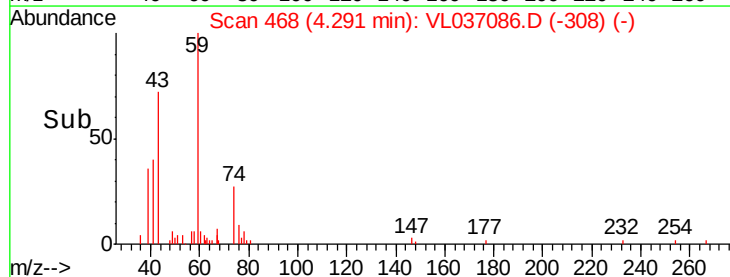
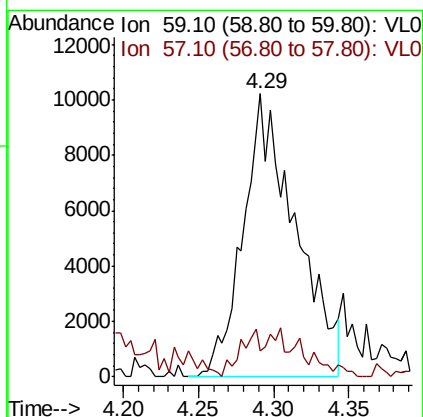
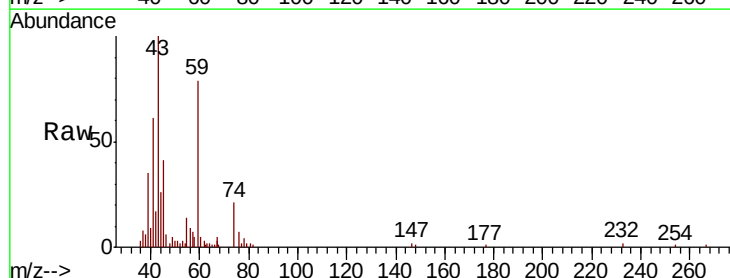
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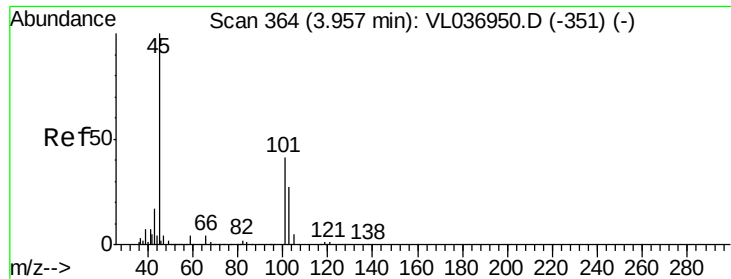
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#17
tert-Butyl alcohol
Concen: 0.196 ppbv m
RT: 4.29 min Scan# 468
Delta R.T. 0.02 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion: 59 Resp: 24787
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





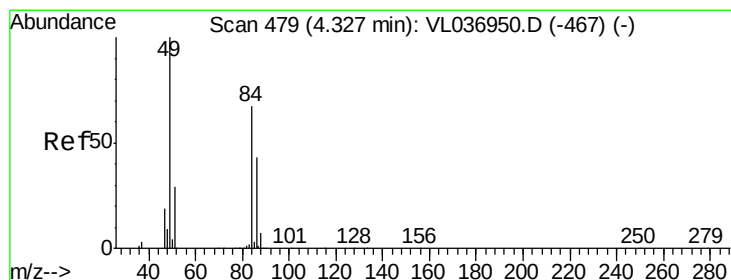
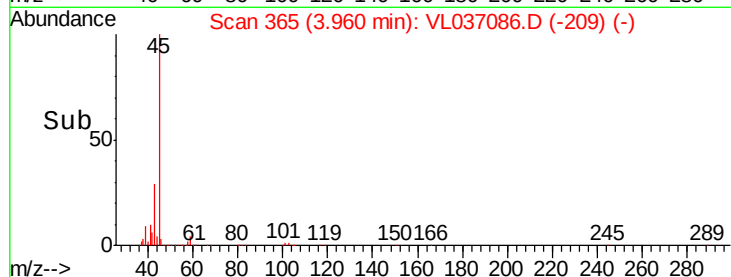
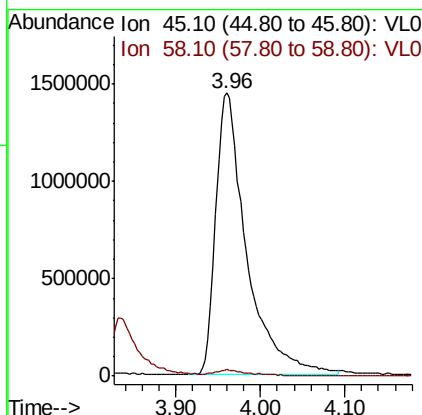
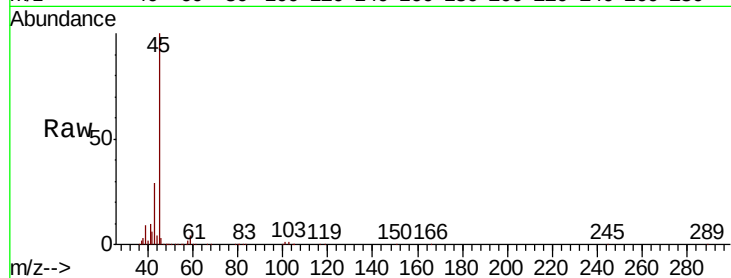
#19
Isopropyl Alcohol
Concen: 49.647 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampled :
IA-1A

Tot Ion: 45 Resp: 3682744
Ion Ratio Lower Upper
45 100
58 2.4 37.2 55.8#

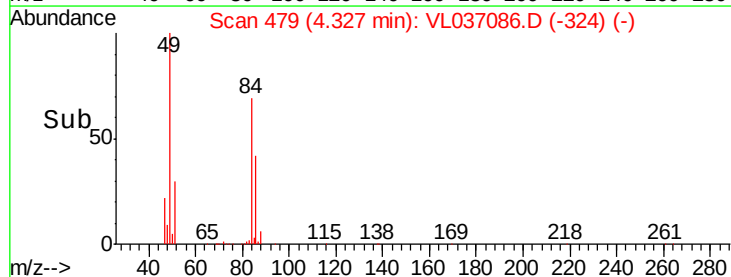
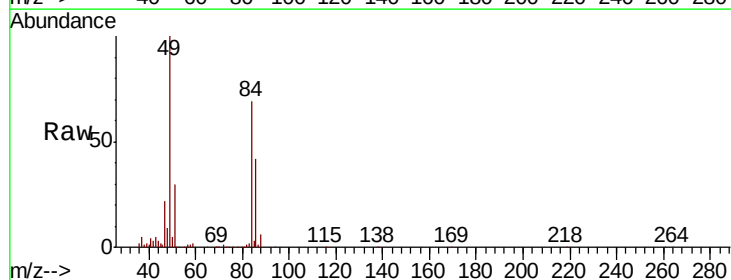
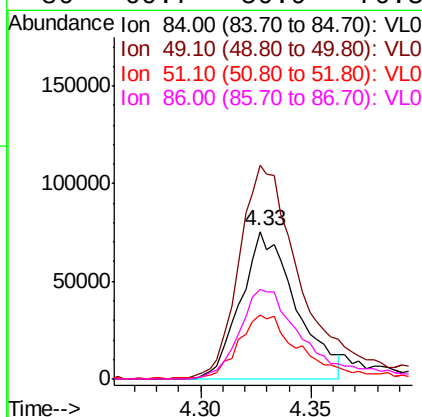
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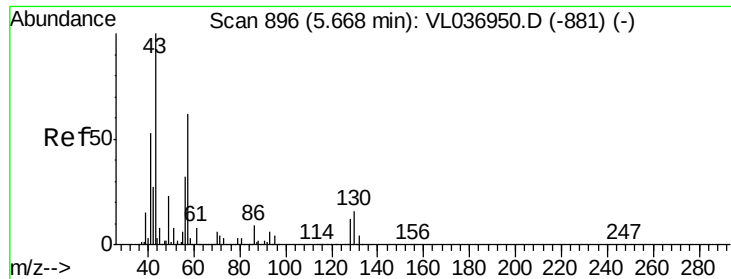
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#20
Methylene Chloride
Concen: 1.763 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion: 84 Resp: 130375
Ion Ratio Lower Upper
84 100
49 141.9 119.8 179.6
51 42.5 35.1 52.7
86 60.7 50.9 76.3





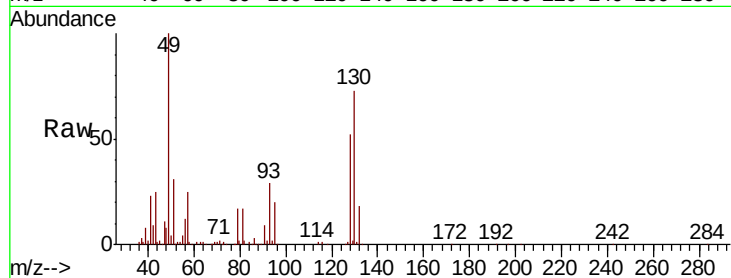
#26
Hexane
Concen: 0.642 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

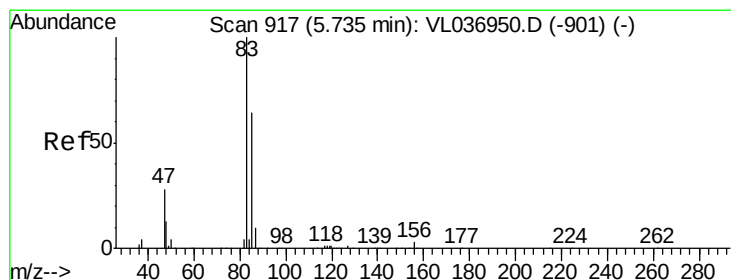
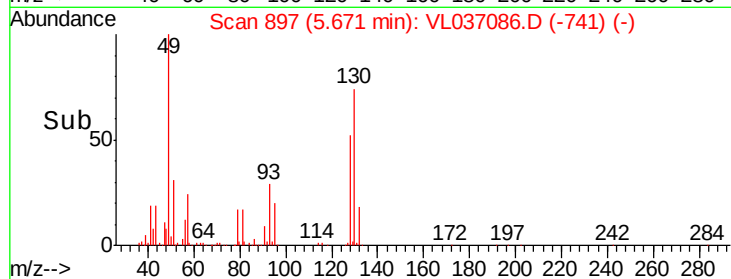
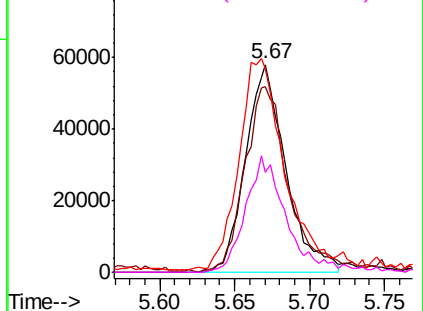
Tot Ion	57	Resp	108763
Ion Ratio	Lower	Upper	
57	100		
41	99.6	70.5	105.7
43	119.1	165.8	248.8#
56	57.9	42.2	63.4

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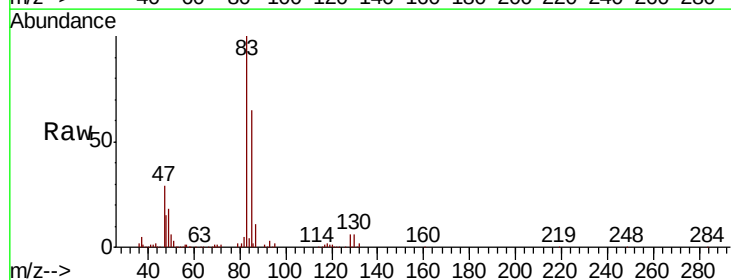


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

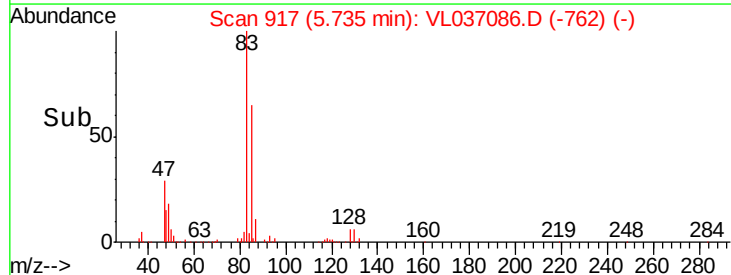
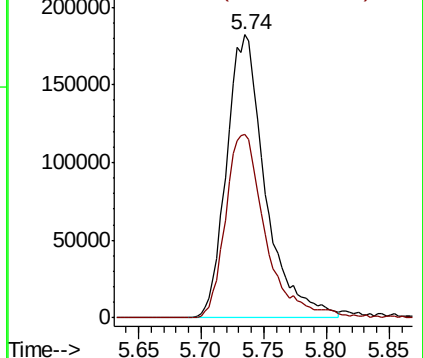


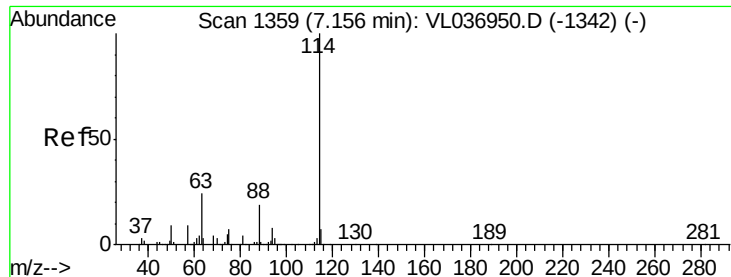
#29
Chloroform
Concen: 1.639 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion	83	Resp	392151
Ion Ratio	Lower	Upper	
83	100		
85	64.9	51.1	76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





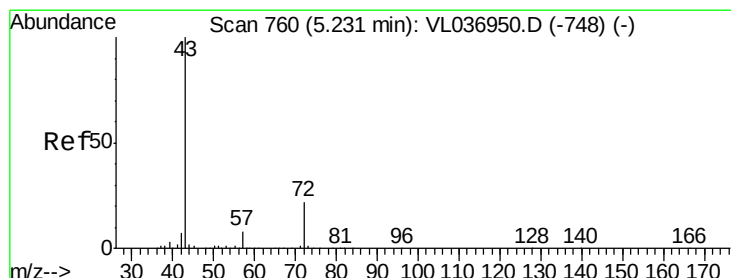
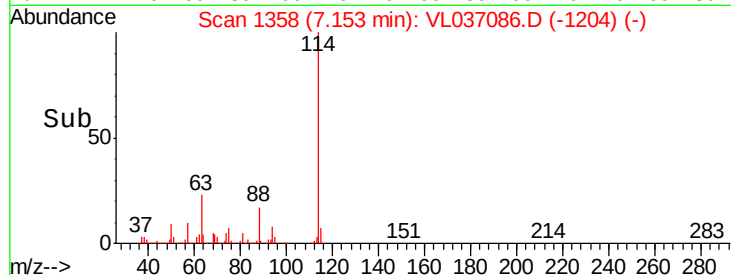
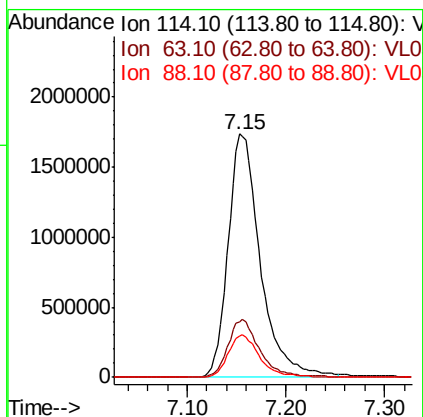
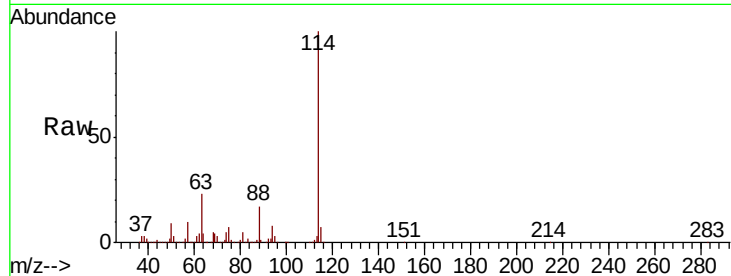
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1A

Tot Ion:114 Resp: 3958860
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.6 29.4
 88 17.4 14.6 21.8

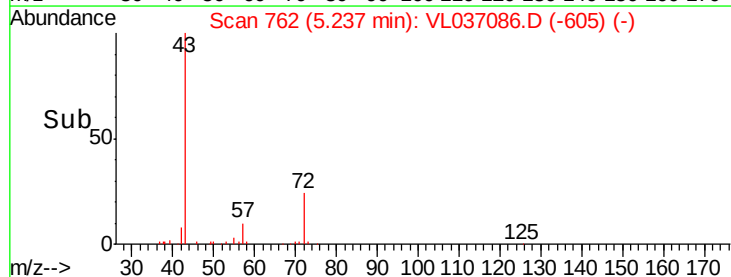
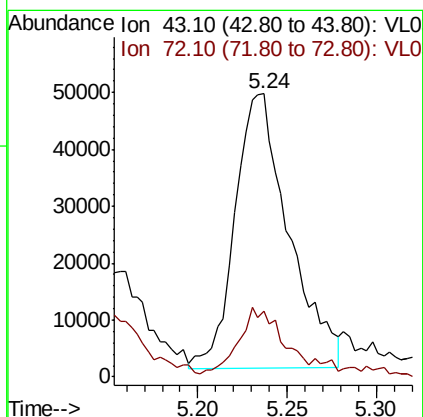
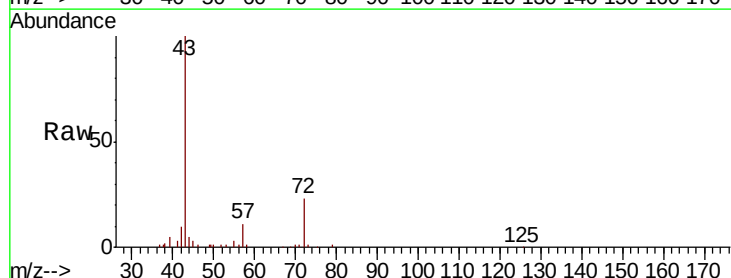
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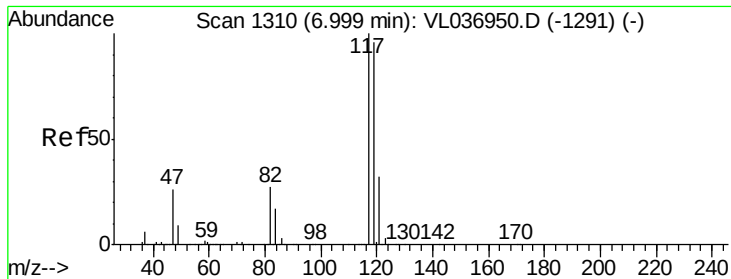
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#34
 2-Butanone
 Concen: 0.705 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Tgt Ion: 43 Resp: 101629
 Ion Ratio Lower Upper
 43 100
 72 26.0 19.0 28.4





#35

Carbon Tetrachloride

Concen: 0.059 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

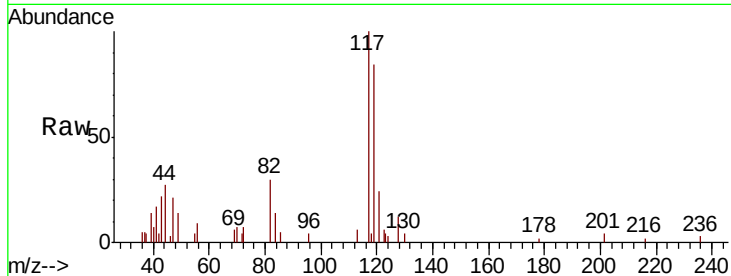
ClientSampled :

IA-1A

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.9	76.6	114.8
121	24.2	25.8	38.6#

Manual Integrations
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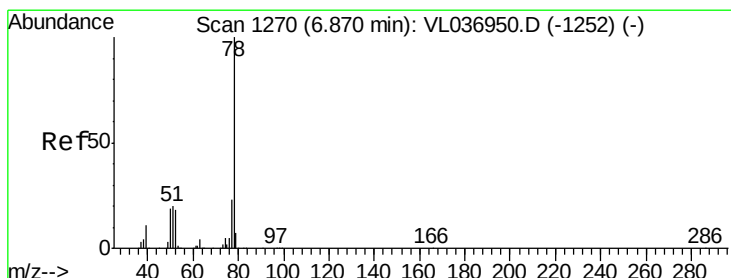
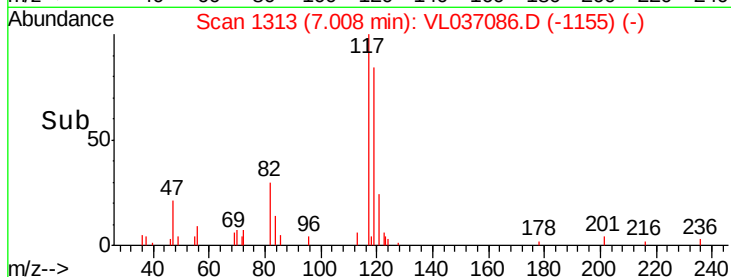
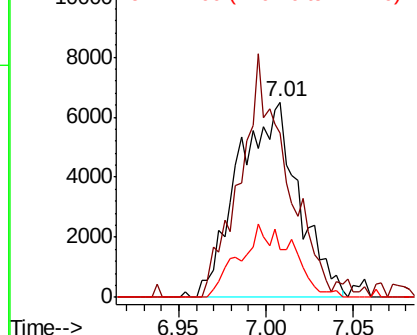


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.139 ppbv m

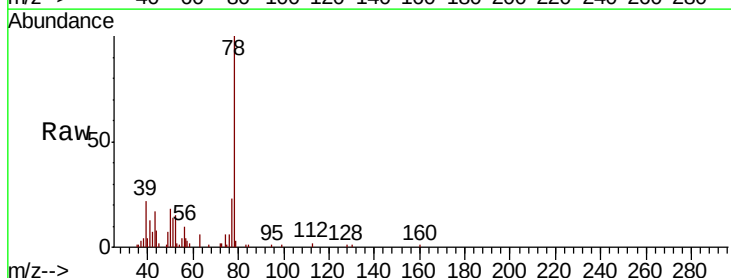
RT: 6.88 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	28.0
50	17.8	15.0	22.4

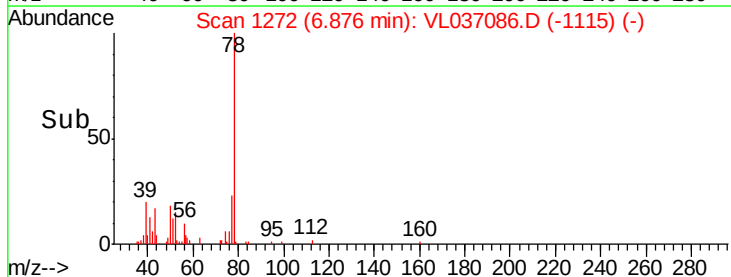
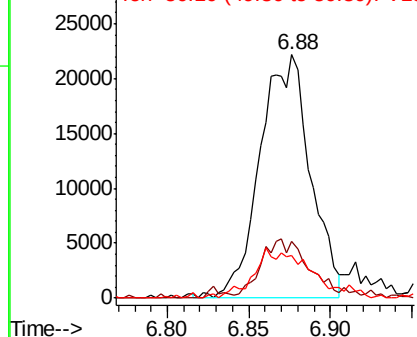


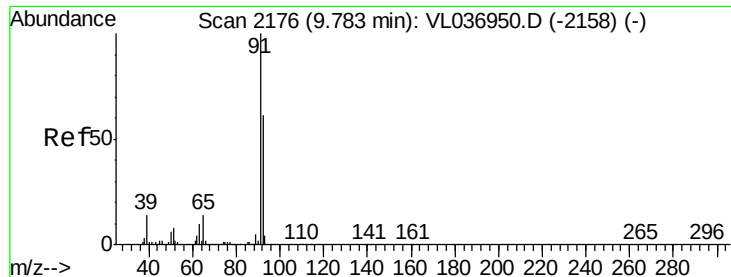
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#53

Toluene

Concen: 0.278 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

ClientSampled :

IA-1A

Tot Ion: 91 Resp: 112782

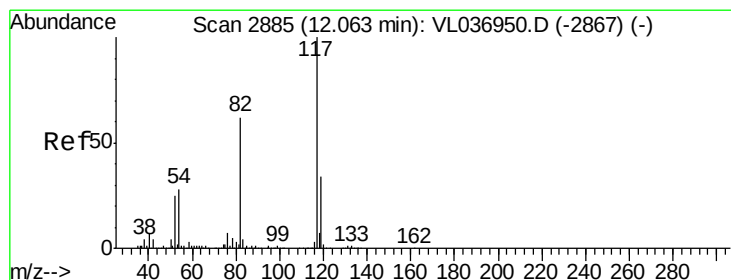
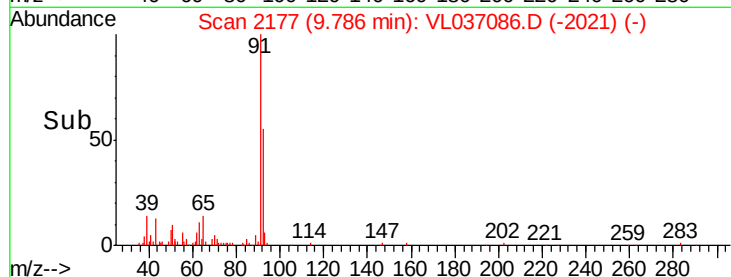
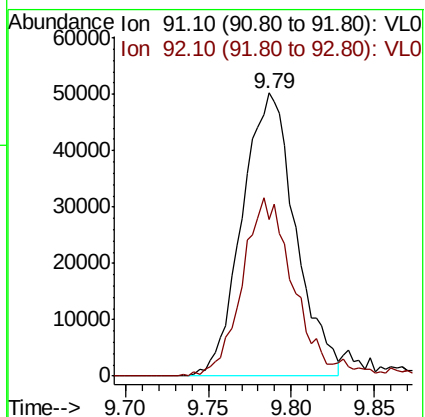
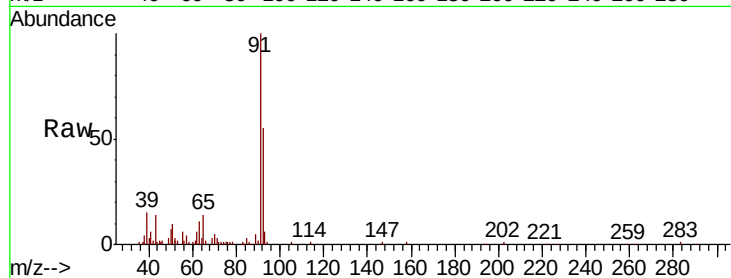
Ion Ratio Lower Upper

91 100

92 62.6 49.5 74.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

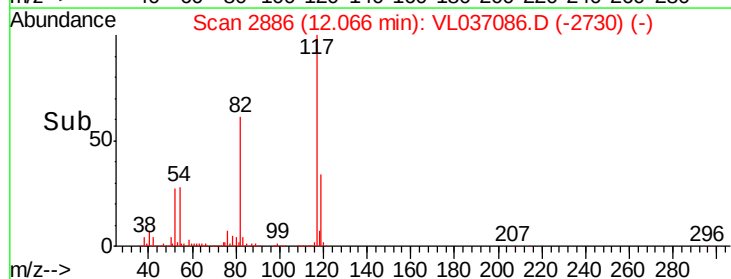
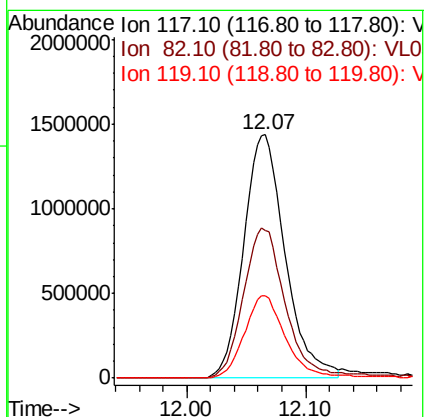
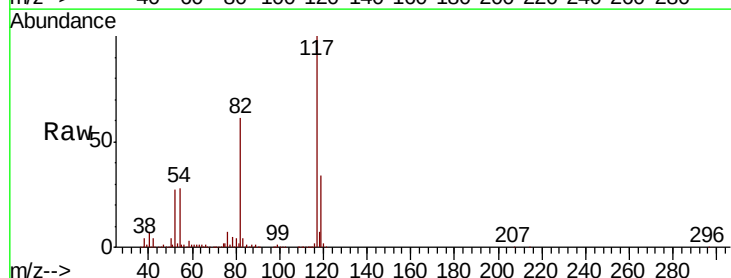
Tgt Ion: 117 Resp: 3465718

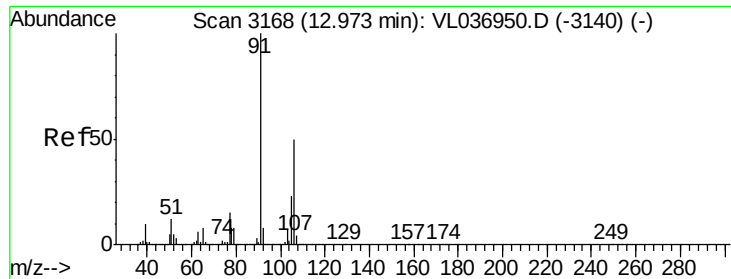
Ion Ratio Lower Upper

117 100

82 64.6 52.6 79.0

119 34.9 46.6 70.0#





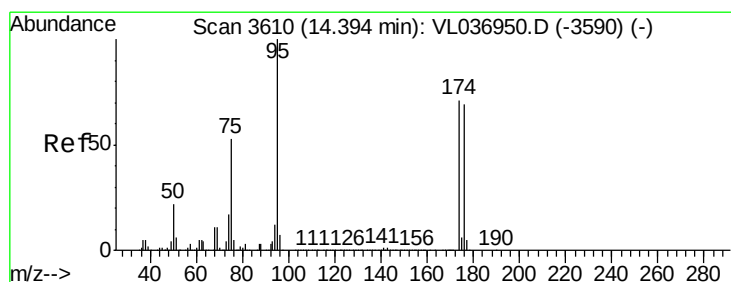
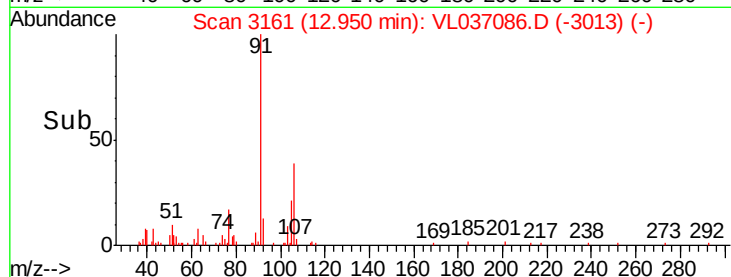
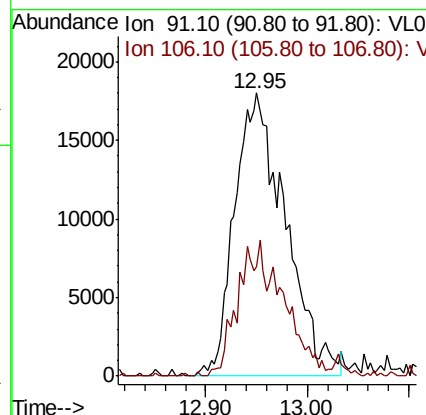
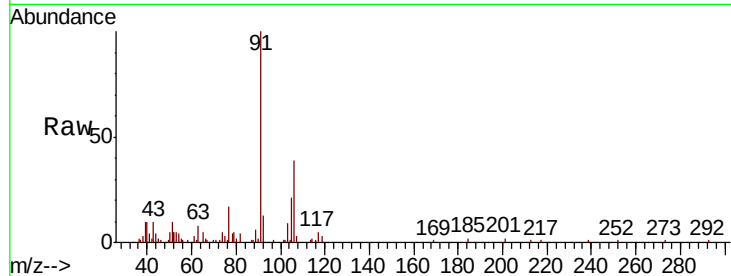
#59
m/p-Xylene
Concen: 0.155 ppbv m
RT: 12.95 min Scan# 3161
Delta R.T. -0.02 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampled :
IA-1A

Tot Ion: 91 Resp: 62515
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

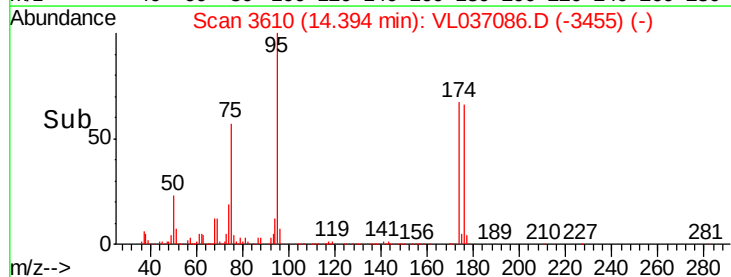
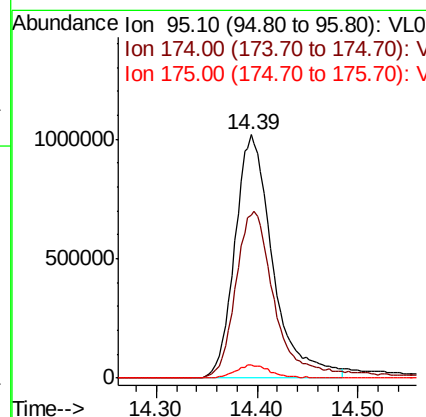
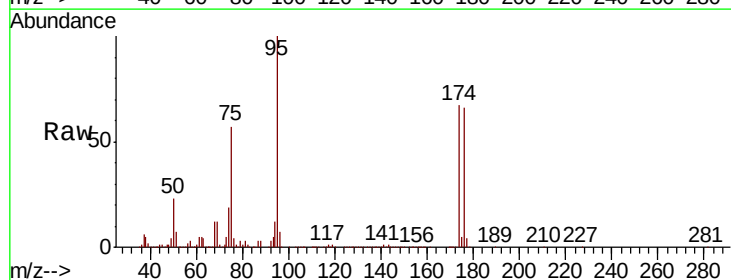
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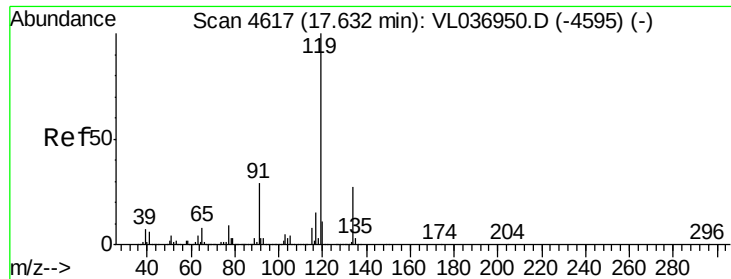
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.222 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion: 95 Resp: 2661208
Ion Ratio Lower Upper
95 100
174 73.6 58.4 87.6
175 5.2 4.4 6.6





#69
 p-Isopropyltoluene
 Concen: 0.472 ppbv
 RT: 17.64 min Scan# 4619
 Delta R.T. 0.01 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1A

Tot Ion:	119	Resp:	276634
Ion Ratio	Lower	Upper	
119	100		
134	26.5	21.2	31.8
91	30.5	22.2	33.4

Manual Integrations
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