

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL033121\
 Data File : VL036594.D
 Acq On : 31 Mar 2021 9:36
 Operator : SY/AP
 Sample : M1797-04DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-05(2021)DL

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:52:00 PM

Quant Time: Apr 01 22:16:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1757795	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3921671	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3507938	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2791938	9.99	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	28737m	0.100	ppbv	
3) Chlorodifluoromethane	2.99	51	31458	0.096	ppbv	96
4) Chloromethane	3.13	50	11927	0.103	ppbv	90
13) Ethanol	3.60	45	972764	78.021	ppbv	95
15) Acetone	3.84	43	2420766	13.992	ppbv	99
19) Isopropyl Alcohol	3.97	45	114592m	1.204	ppbv	
20) Methylene Chloride	4.34	84	446331	5.510	ppbv	93
26) Hexane	5.68	57	558388	2.925	ppbv #	46
29) Chloroform	5.74	83	29052m	0.095	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	47988m	0.156	ppbv	
34) 2-Butanone	5.24	43	99665	0.521	ppbv	91
53) Toluene	9.80	91	55613	0.144	ppbv	90
70) n-Butylbenzene	18.55	91	159103m	0.277	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	66136m	0.150	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	251043	0.533	ppbv #	68
79) Naphthalene	22.20	128	69704m	0.254	ppbv	

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

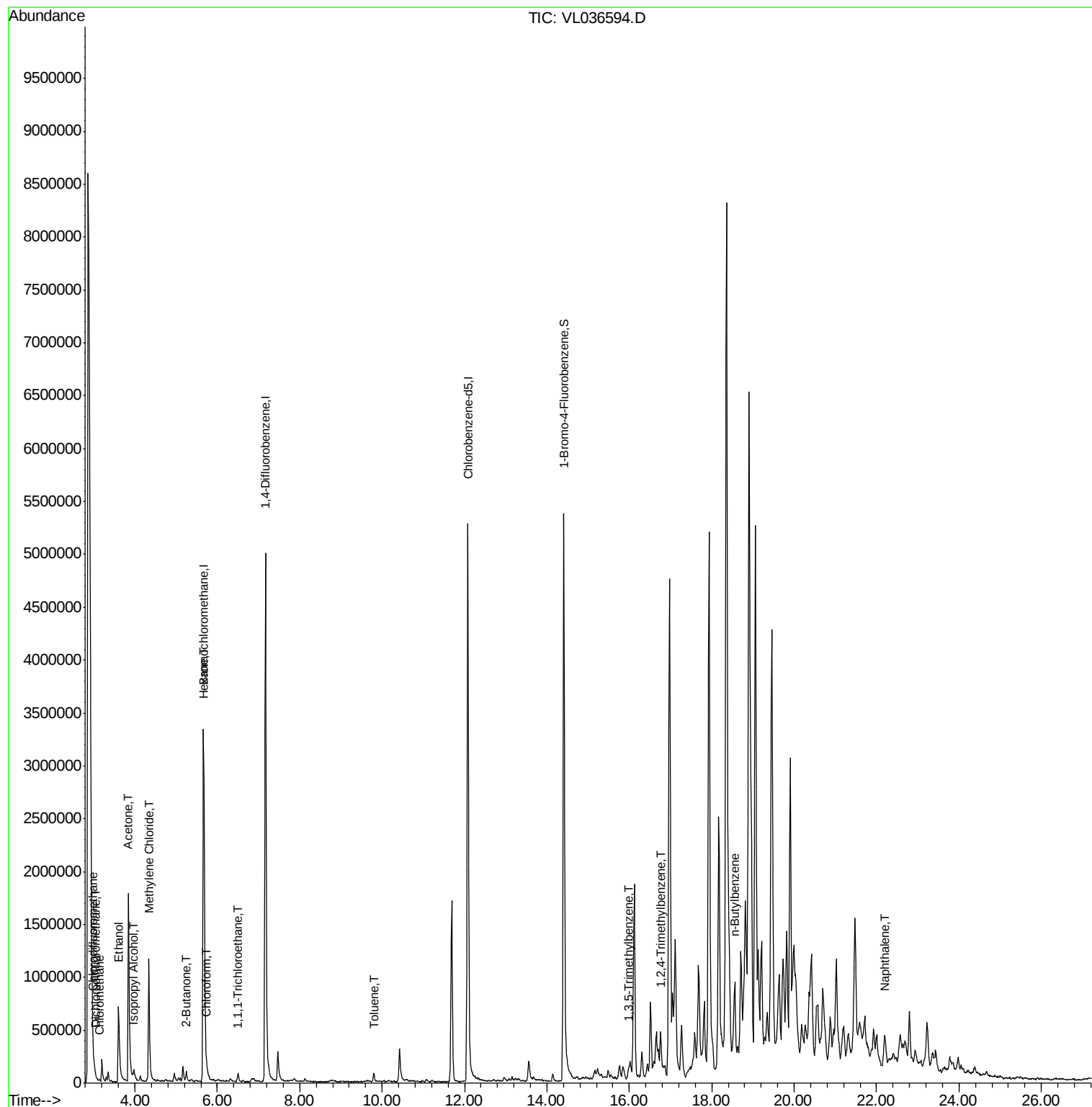
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL033121\
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Acq On : 31 Mar 2021 9:36
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Quant Time: Apr 01 22:16:15 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-05(2021)DL

Tot Ion: 49 Resp: 1757795

Ion Ratio Lower Upper

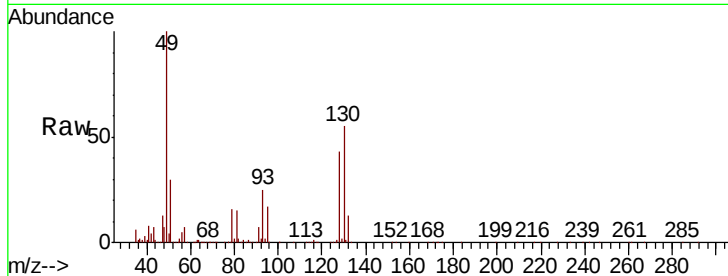
49 100

128 43.5 23.5 70.6

130 56.3 29.1 87.4

Manual Integrations
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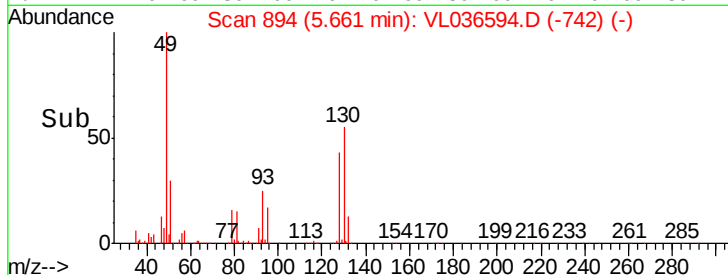


Abundance Ion 49.10 (48.80 to 49.80): VL0

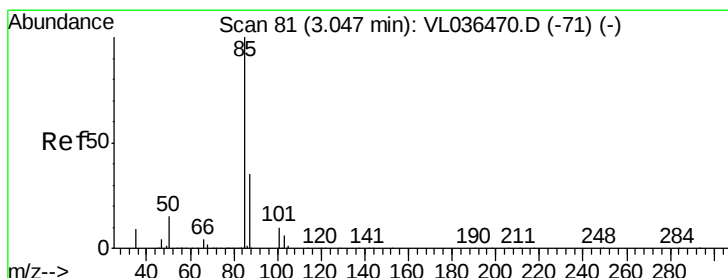
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.100 ppbv m

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036594.D

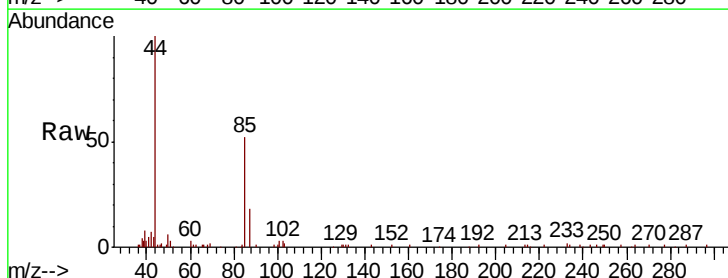
Acq: 31 Mar 2021 9:36

Tgt Ion: 85 Resp: 28737

Ion Ratio Lower Upper

85 100

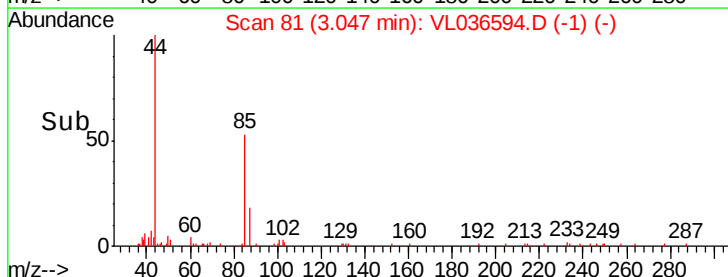
87 34.2 27.8 41.8



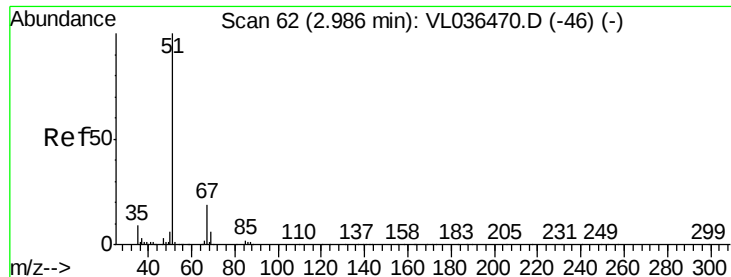
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 0.096 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Tot Ion: 51 Resp: 31458

Ion Ratio Lower Upper

51 100

67 16.4 14.7 22.1

Instrument :

MSVOA_L

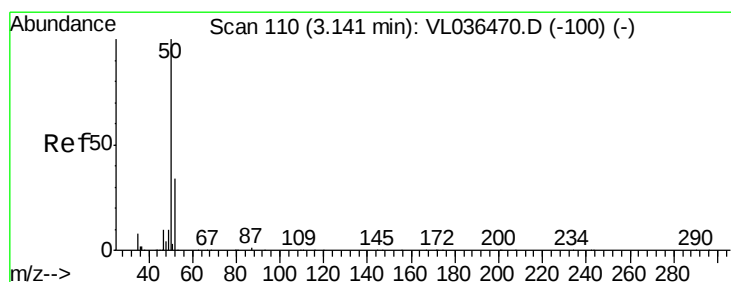
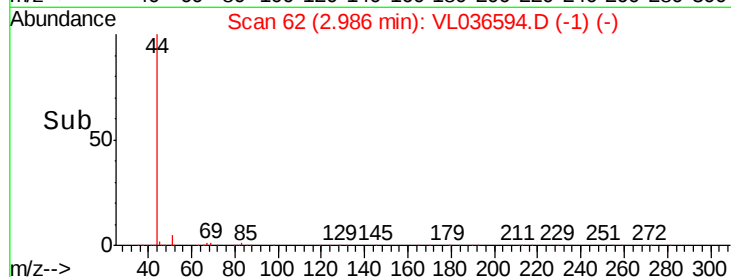
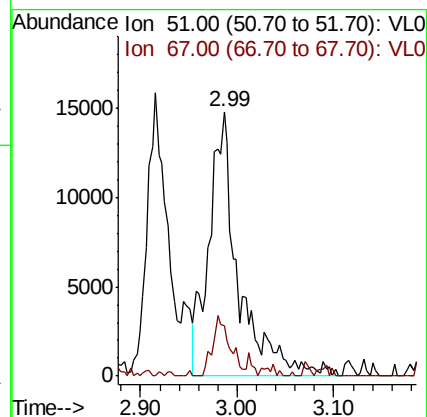
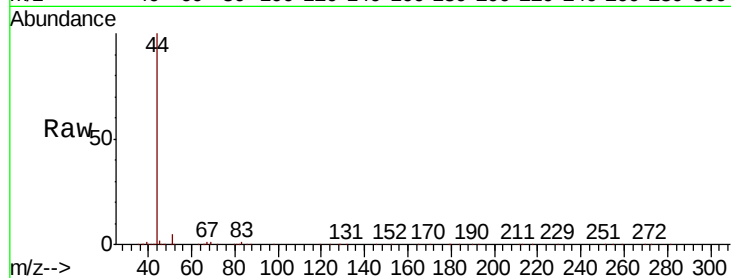
ClientSampleId :

MF-SG-05(2021)DL

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#4

Chloromethane

Concen: 0.103 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036594.D

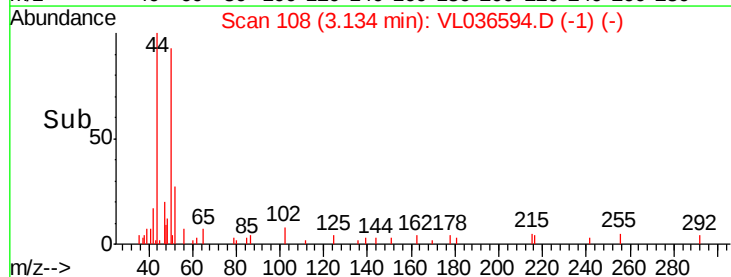
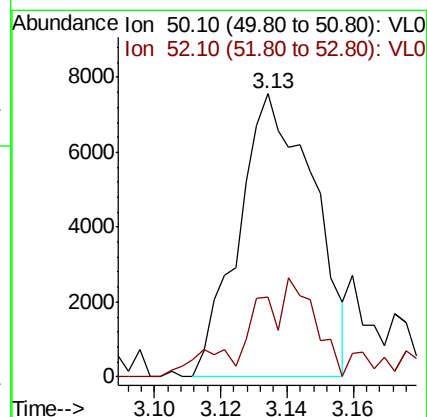
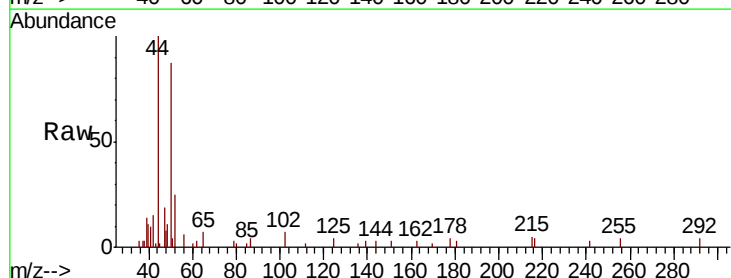
Acq: 31 Mar 2021 9:36

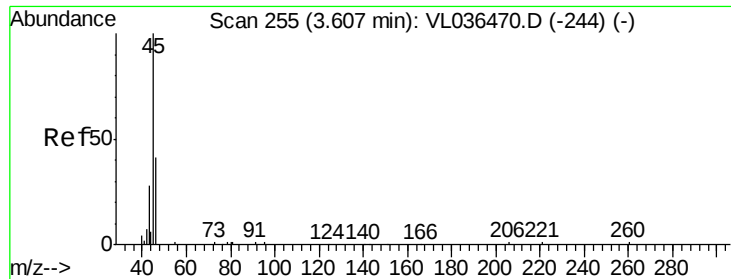
Tgt Ion: 50 Resp: 11927

Ion Ratio Lower Upper

50 100

52 28.1 27.0 40.6





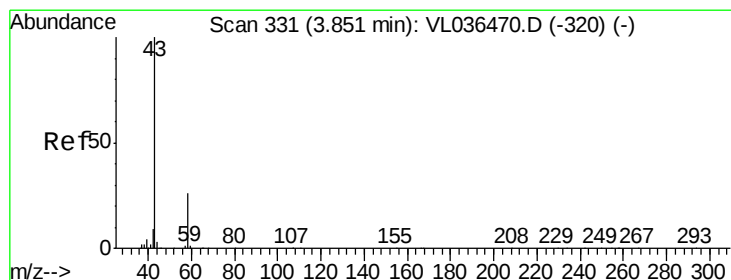
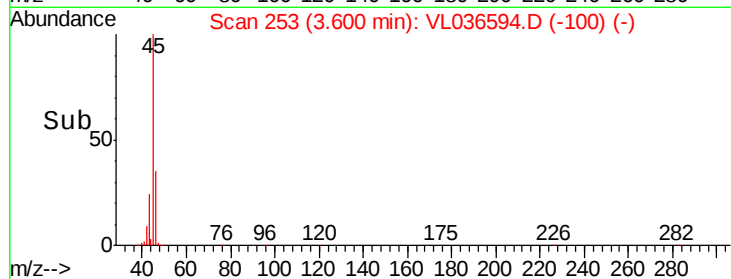
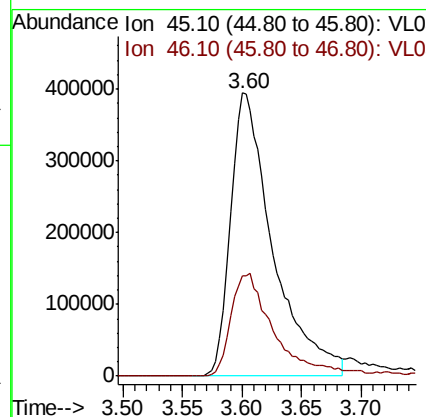
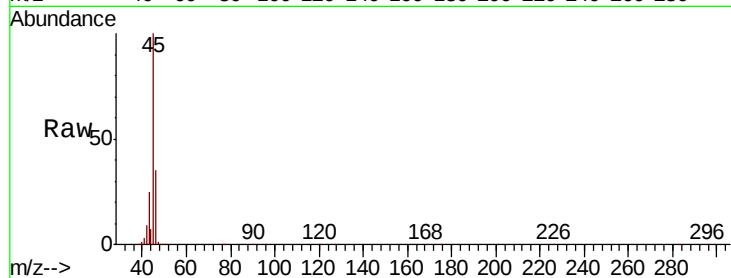
#13
Ethanol
Concen: 78.021 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-05(2021)DL

Tot Ion	45	46	Ratio	Lower	Upper
Resp: 972764	100	38.3		16.6	66.2

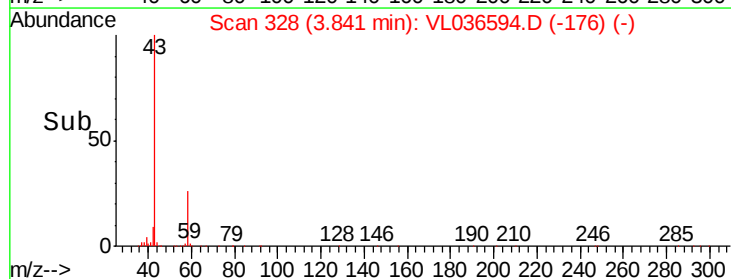
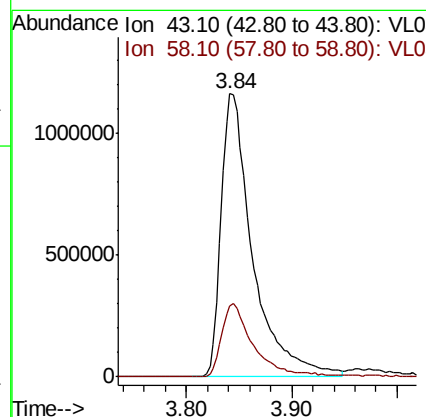
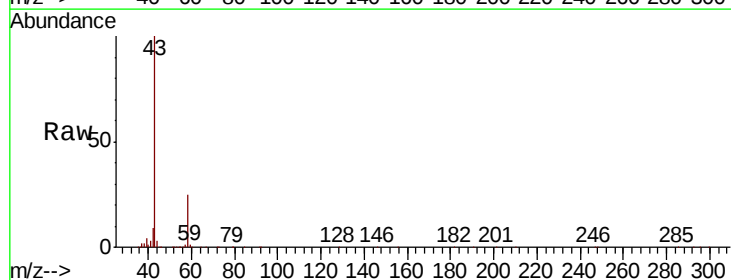
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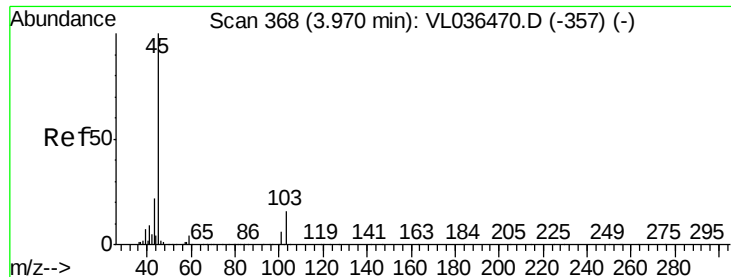
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#15
Acetone
Concen: 13.992 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Tgt Ion	43	58	Ratio	Lower	Upper
Resp: 2420766	100	27.2		21.2	31.8





#19

Isopropyl Alcohol

Concen: 1.204 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-05(2021)DL

Tot Ion: 45 Resp: 114592

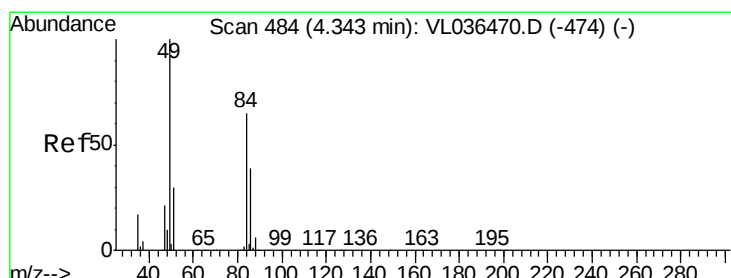
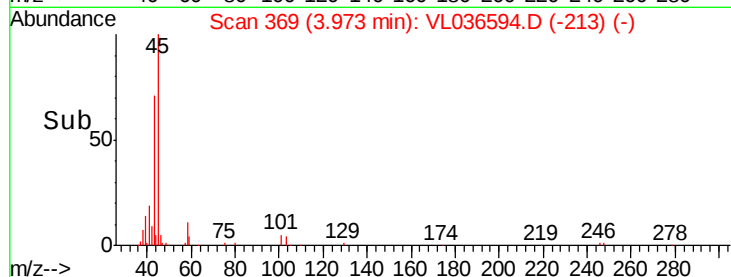
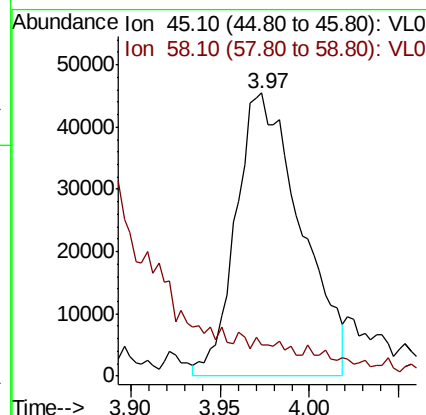
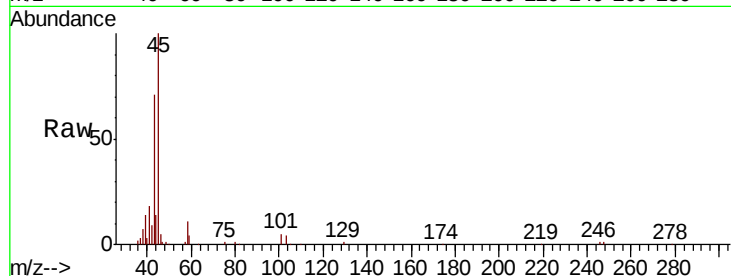
Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#

Manual Integrations
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#20

Methylene Chloride

Concen: 5.510 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Tgt Ion: 84 Resp: 446331

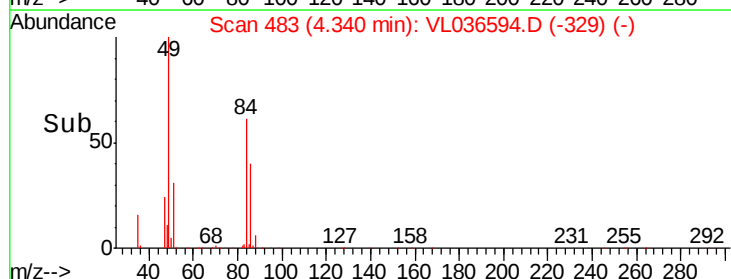
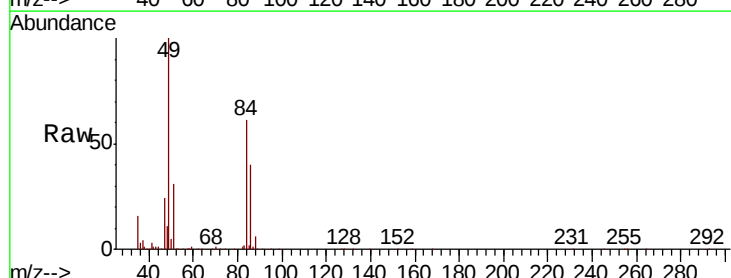
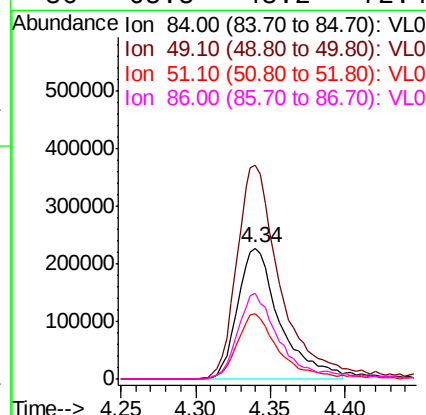
Ion Ratio Lower Upper

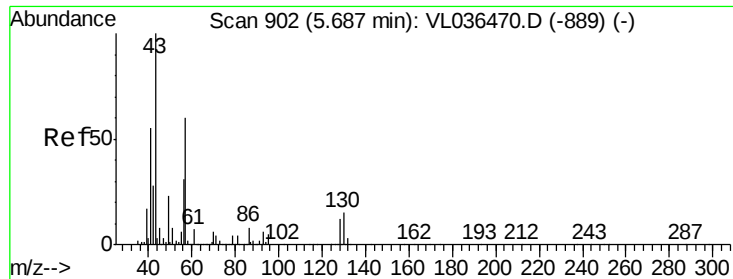
84 100

49 163.3 122.9 184.3

51 50.2 36.9 55.3

86 65.5 48.2 72.4





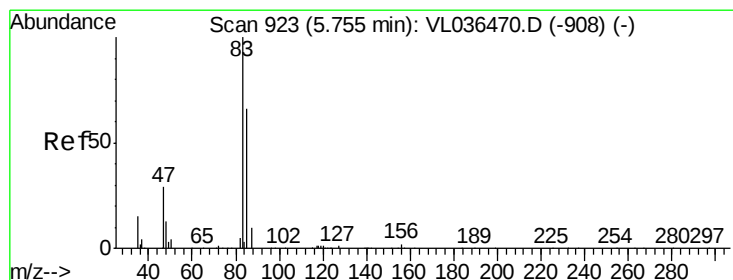
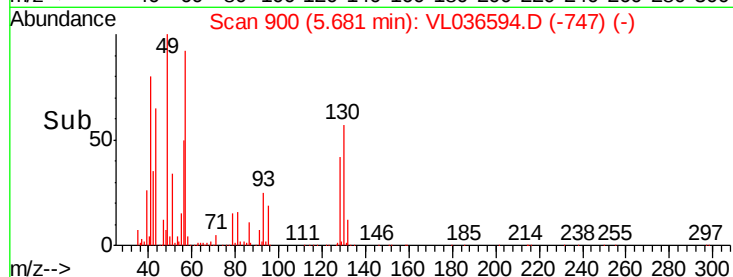
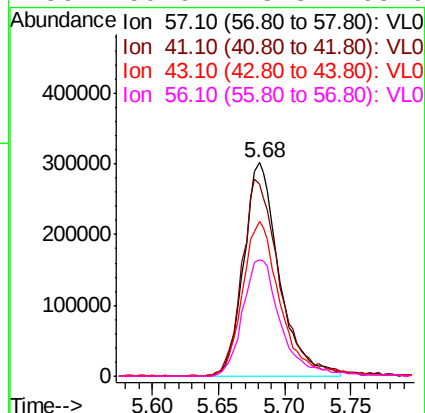
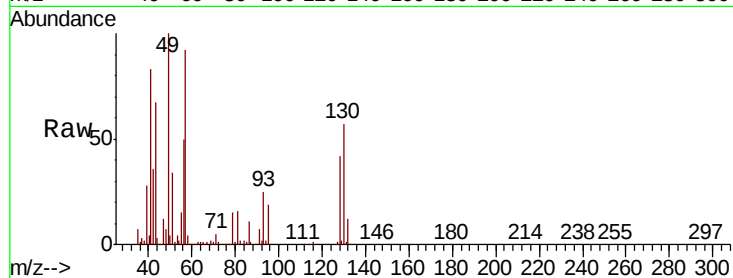
#26
Hexane
Concen: 2.925 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-05(2021)DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	100.8	77.2	115.8
43	77.5	173.8	260.6#
56	59.6	43.8	65.6

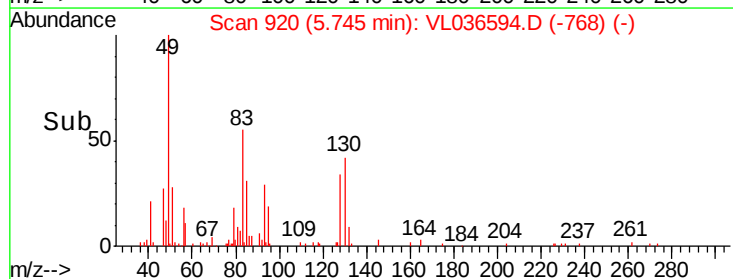
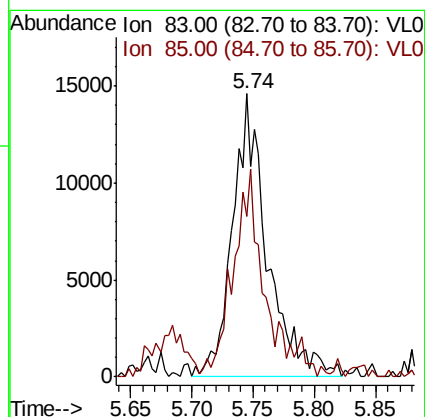
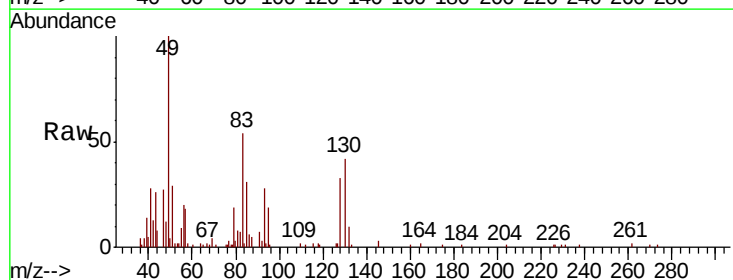
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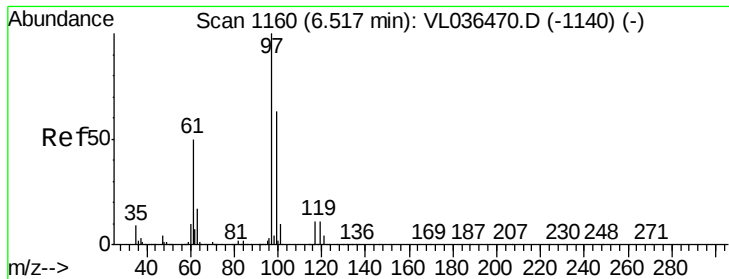
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#29
Chloroform
Concen: 0.095 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.8	52.6	78.8





#32

1,1,1-Trichloroethane

Concen: 0.156 ppbv m

RT: 6.51 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Instrument :

MSVOA_L

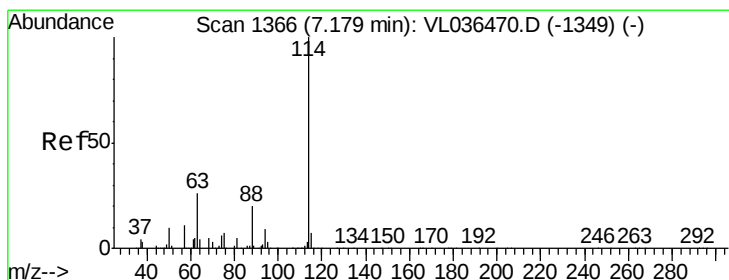
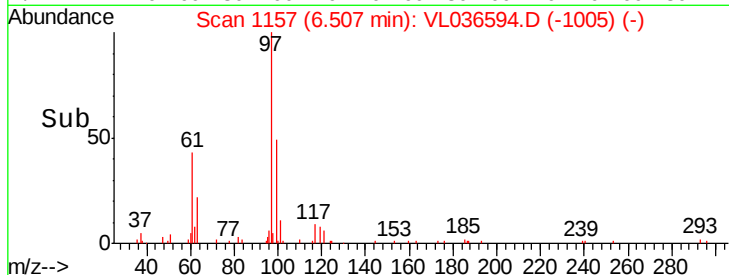
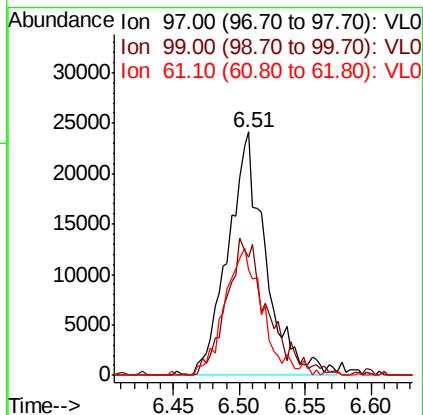
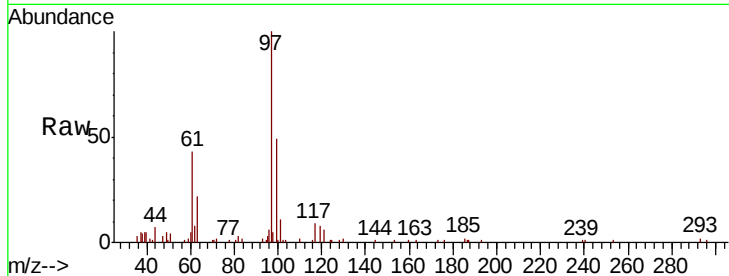
ClientSampleId :

MF-SG-05(2021)DL

Tot Ion:	97	Resp:	47988
Ion Ratio	Lower	Upper	
97	100		
99	62.9	51.4	77.0
61	53.8	40.6	60.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

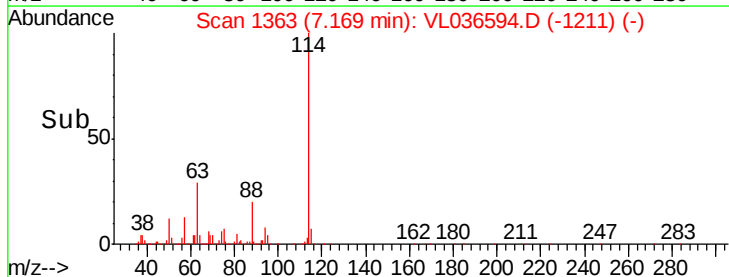
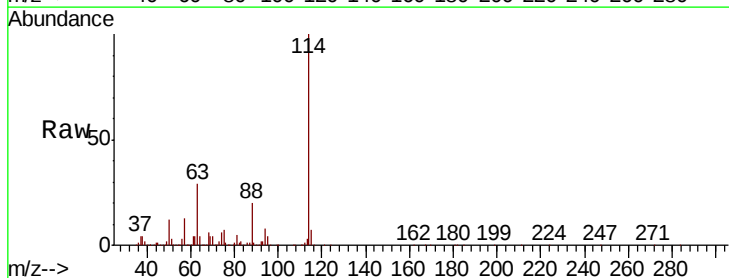
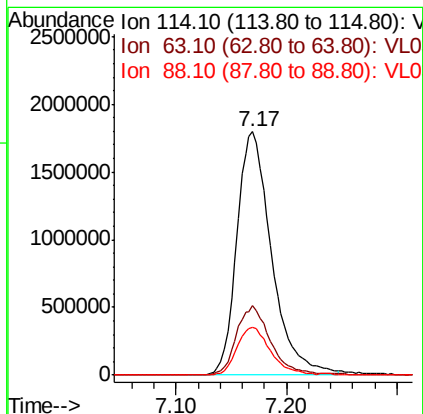
RT: 7.17 min Scan# 1363

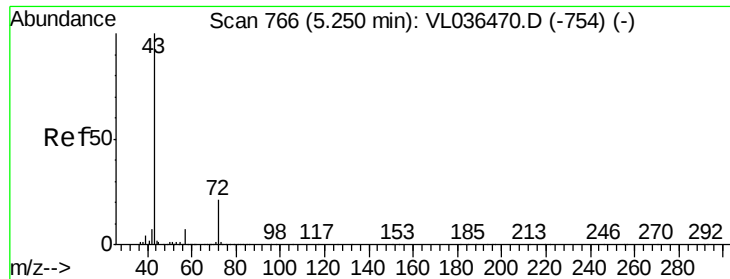
Delta R.T. -0.01 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Tgt Ion:	114	Resp:	3921671
Ion Ratio	Lower	Upper	
114	100		
63	28.5	22.4	33.6
88	19.4	15.4	23.0





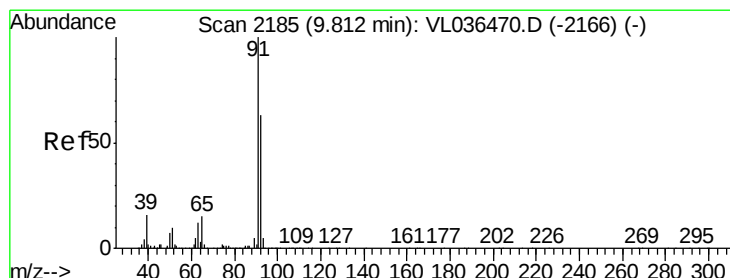
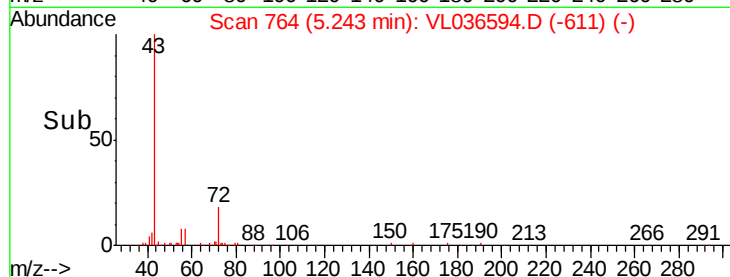
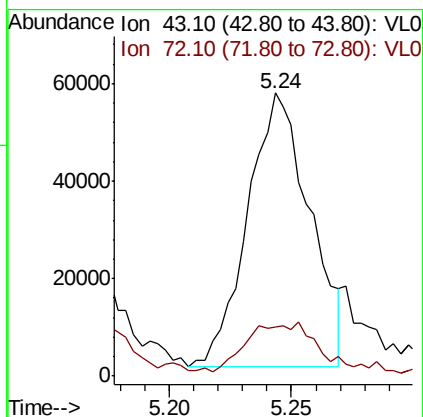
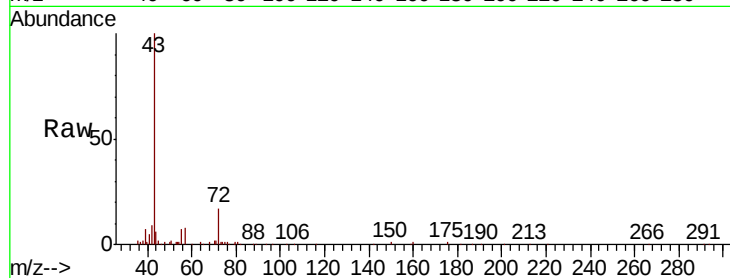
#34
2-Butanone
Concen: 0.521 ppbv
RT: 5.24 min Scan# 764
Delta R.T. -0.01 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-05(2021)DL

Tot Ion	43	Resp	99665
Ion Ratio	100	Lower	Upper
72	25.3	17.0	25.6

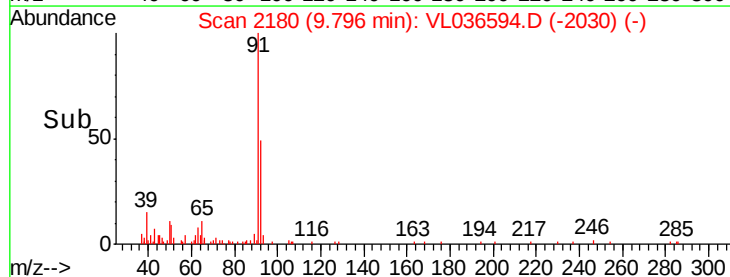
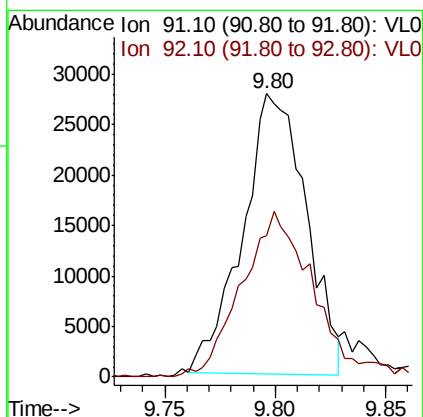
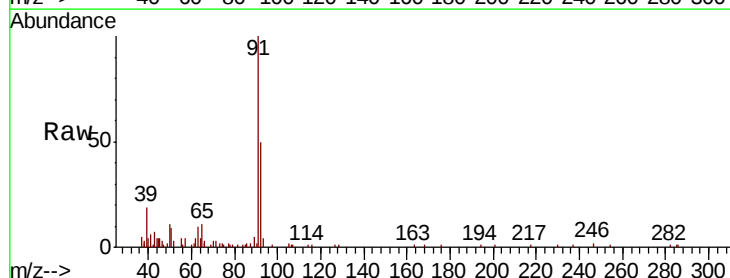
Manual Integrations
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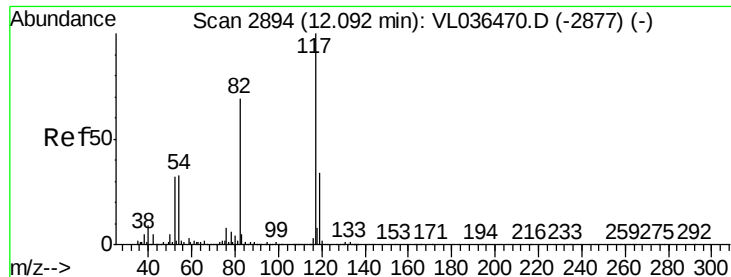
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#53
Toluene
Concen: 0.144 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.02 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Tgt Ion	91	Resp	55613
Ion Ratio	100	Lower	Upper
92	68.9	48.8	73.2





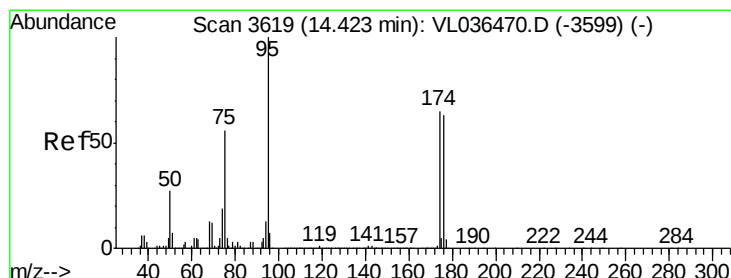
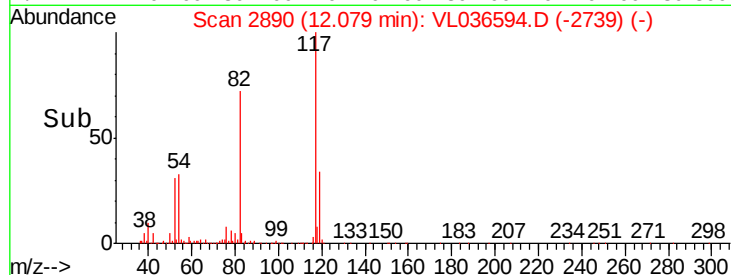
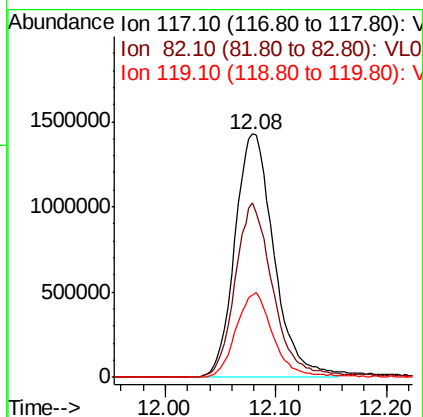
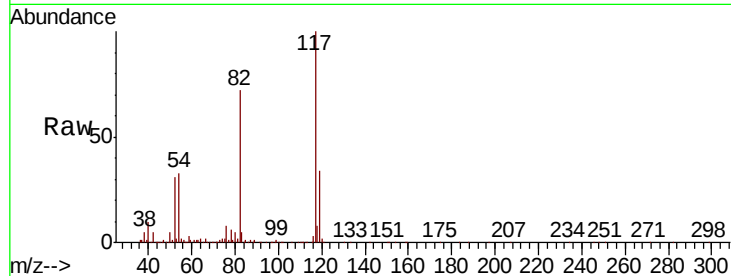
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-05(2021)DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.7	57.4	86.0
119	33.8	47.4	71.0#

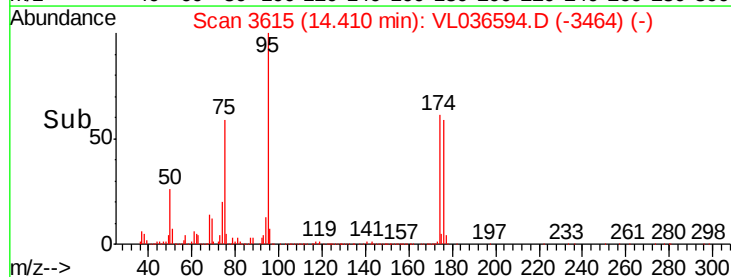
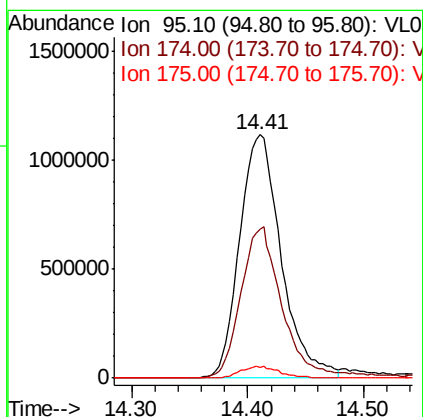
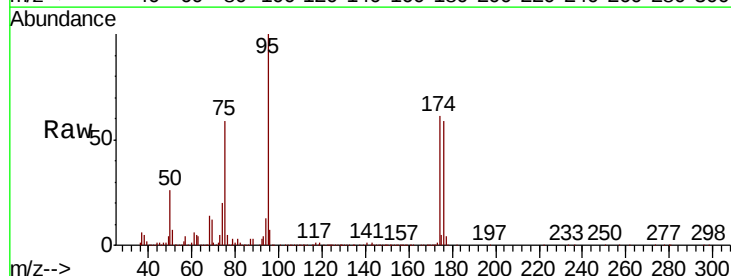
Manual Integrations
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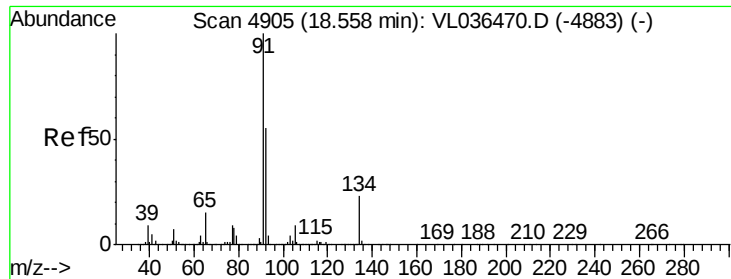
MMDadoda
4/2/2021 6:52:00 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.986 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. -0.01 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.7	51.0	76.6
175	4.8	3.9	5.9





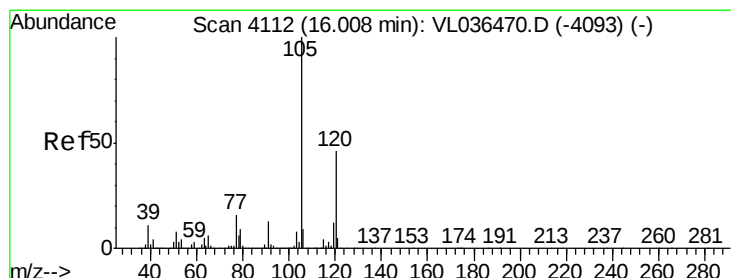
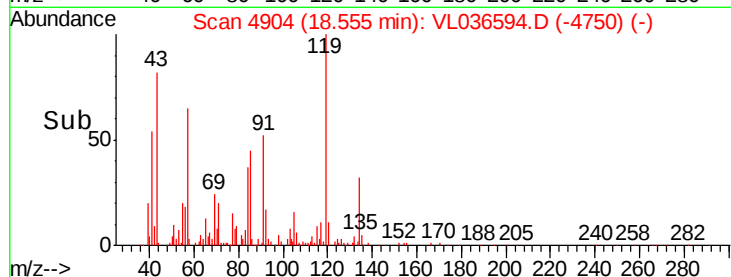
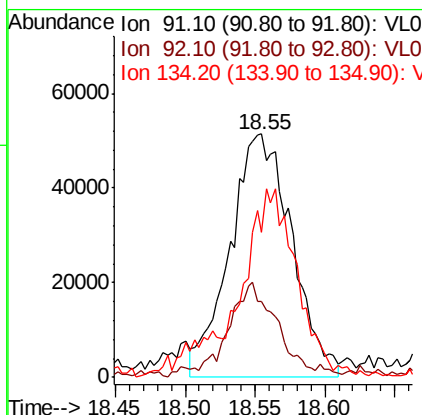
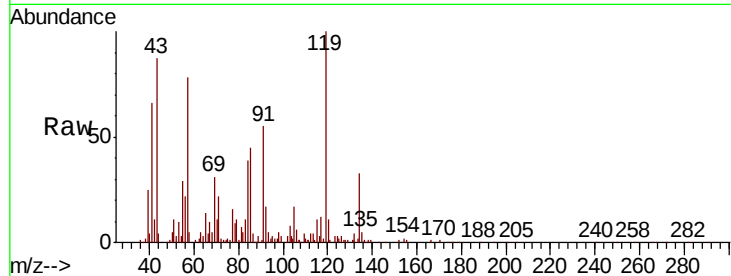
#70
n-Butylbenzene
Concen: 0.277 ppbv m
RT: 18.55 min Scan# 4904
Delta R.T. -0.00 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-05(2021)DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	31.1	43.8	65.8#
134	0.0	18.0	27.0#

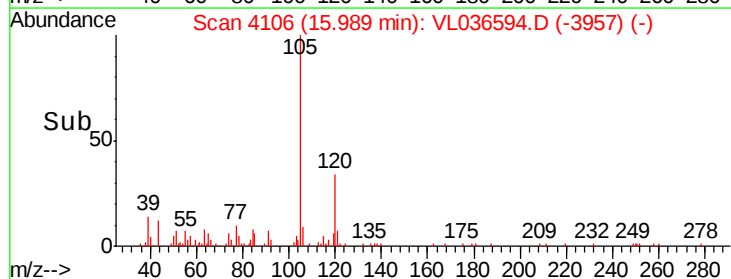
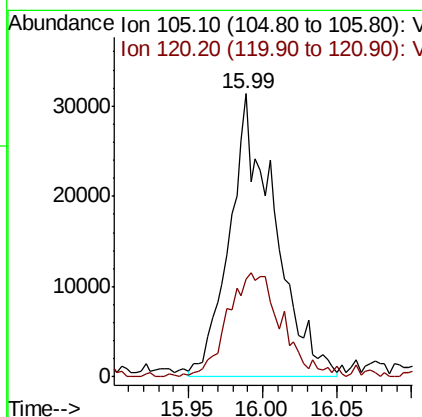
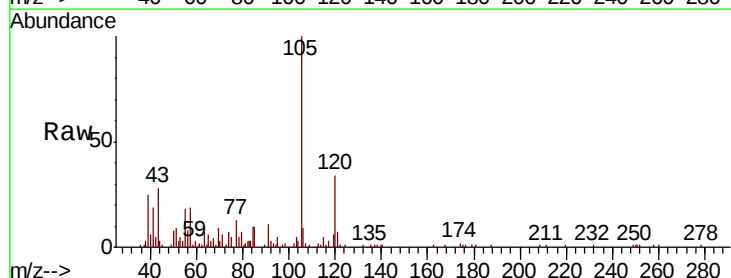
Manual Integrations
APPROVED

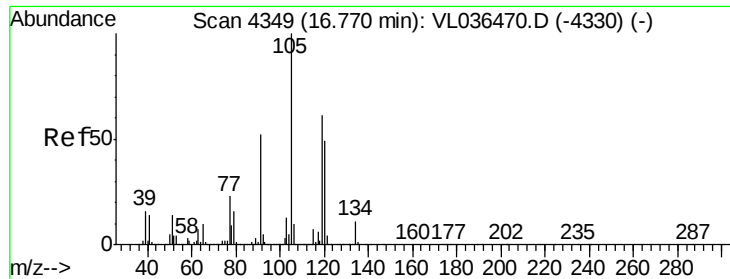
MMDadoda
4/2/2021 6:52:00 PM



#73
1,3,5-Trimethylbenzene
Concen: 0.150 ppbv m
RT: 15.99 min Scan# 4106
Delta R.T. -0.02 min
Lab File: VL036594.D
Acq: 31 Mar 2021 9:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.4	36.6	54.8#





#74

1,2,4-Trimethylbenzene

Concen: 0.533 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Instrument :

MSVOA_L

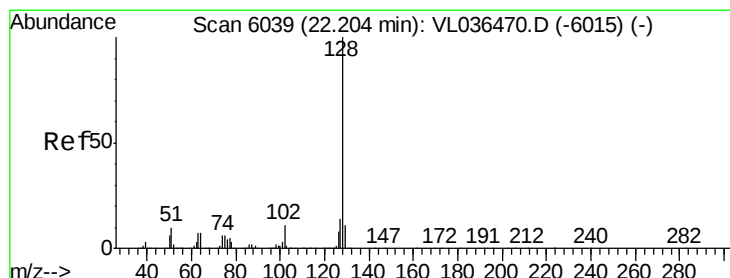
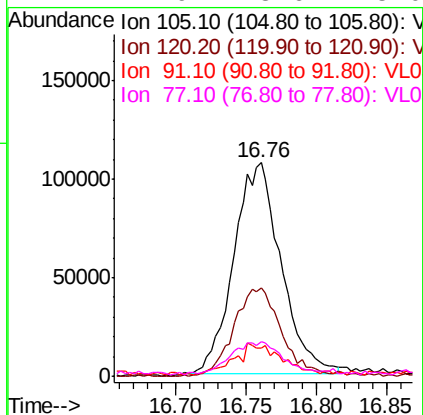
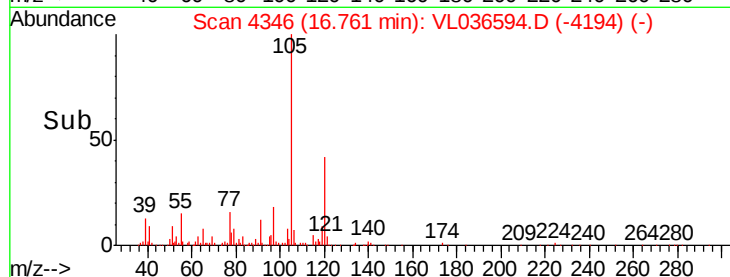
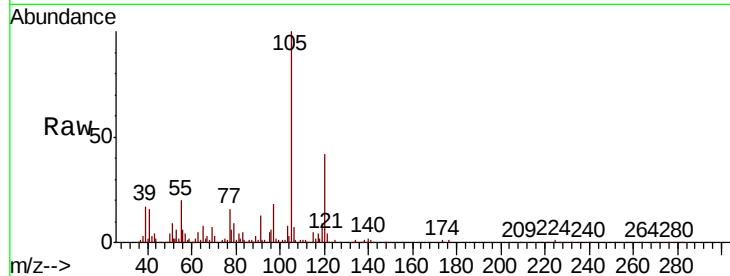
ClientSampleId :

MF-SG-05(2021)DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	41.9	39.2	58.8
91	12.2	42.6	64.0#
77	14.9	18.6	28.0#

Manual Integrations
APPROVED

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4/2/2021 6:52:00 PM



#79

Naphthalene

Concen: 0.254 ppbv m

RT: 22.20 min Scan# 6037

Delta R.T. -0.01 min

Lab File: VL036594.D

Acq: 31 Mar 2021 9:36

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
127	13.7	10.9	16.3
129	11.4	9.0	13.4

