

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037503.D
 Acq On : 19 Aug 2021 17:56
 Operator : SY/AP
 Sample : M3480-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-7

Manual Integrations
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 8/20/2021 6:31:13 PM

Quant Time: Aug 20 01:07:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1416679	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4138928	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	3435930	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2383539	9.76	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	47840m	0.210	ppbv	
3) Chlorodifluoromethane	3.00	51	1004830m	3.704	ppbv	
4) Chloromethane	3.15	50	34218	0.353	ppbv	98
9) Propene	3.02	41	65840m	0.678	ppbv	
11) Trichlorofluoromethane	3.96	101	44478m	0.208	ppbv	
13) Ethanol	3.61	45	2911301	308.238	ppbv	97
15) Acetone	3.85	43	1861215	12.909	ppbv	95
17) tert-Butyl alcohol	4.31	59	50724	0.385	ppbv #	79
19) Isopropyl Alcohol	3.98	45	698197	8.453	ppbv #	95
20) Methylene Chloride	4.35	84	3408259	47.215	ppbv	98
26) Hexane	5.70	57	2803181	15.664	ppbv #	46
29) Chloroform	5.76	83	93970	0.371	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	57558	0.355	ppbv #	85
34) 2-Butanone	5.25	43	247312	1.463	ppbv #	83
35) Carbon Tetrachloride	7.02	117	15964m	0.065	ppbv	
36) Benzene	6.90	78	2667388	7.666	ppbv	98
38) Trichloroethene	7.84	130	133054	0.932	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	35677m	0.162	ppbv	
52) Tetrachloroethene	11.23	164	17852m	0.125	ppbv	
53) Toluene	9.82	91	130821	0.329	ppbv	100
59) m/p-Xylene	12.98	91	76509m	0.185	ppbv	
62) Isopropylbenzene	14.67	105	819131	1.504	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	93115m	0.205	ppbv	
79) Naphthalene	22.20	128	67277m	0.221	ppbv	
80) Naphthalene,2-methyl-	24.98	142	11263	0.133	ppbv #	88

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

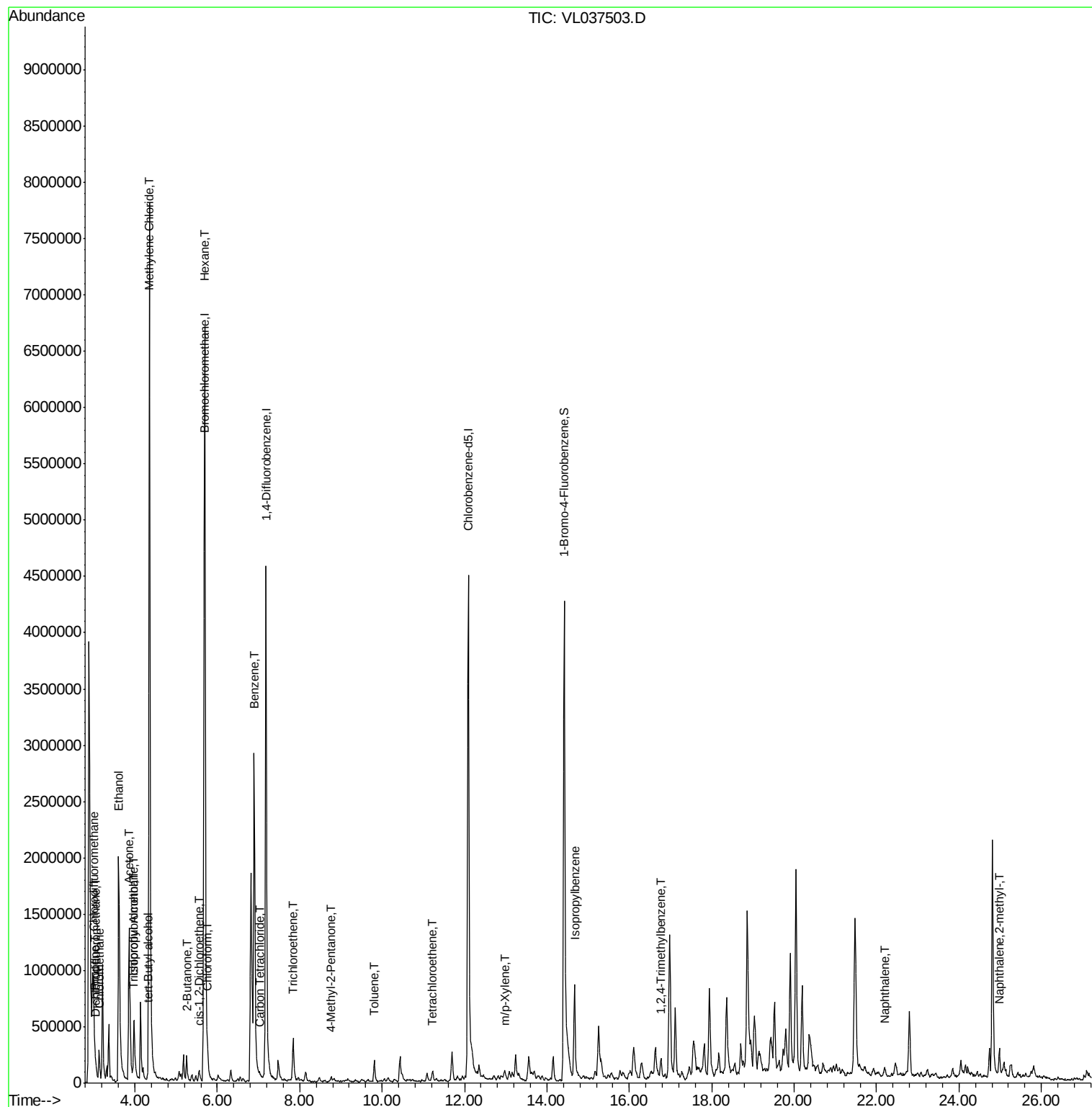
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081921\
Data File : VL037503.D
Acq On : 19 Aug 2021 17:56
Operator : SY/AP
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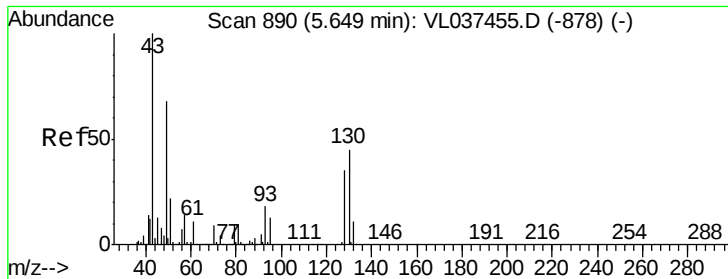
Instrument :
MSVOA_L
ClientSampled :
SR-SG-7

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Quant Time: Aug 20 01:07:09 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.02 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-7

Tot Ion: 49 Resp: 1416679

Ion Ratio Lower Upper

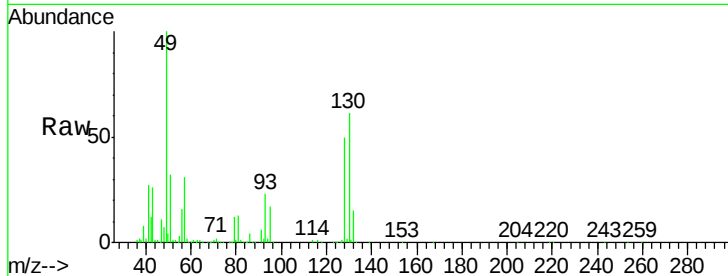
49 100

128 52.0 27.5 82.4

130 66.9 34.0 101.8

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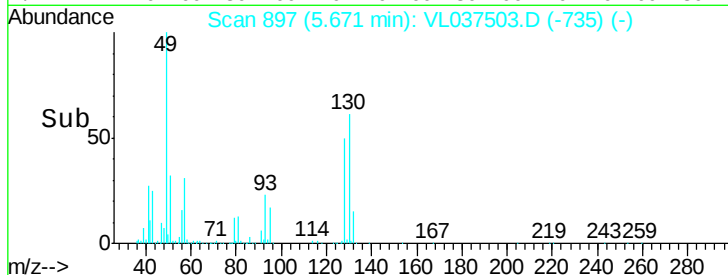
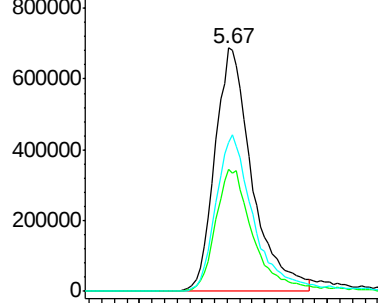
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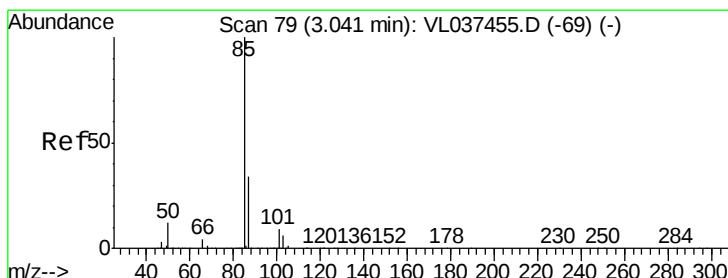
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 0.210 ppbv m

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL037503.D

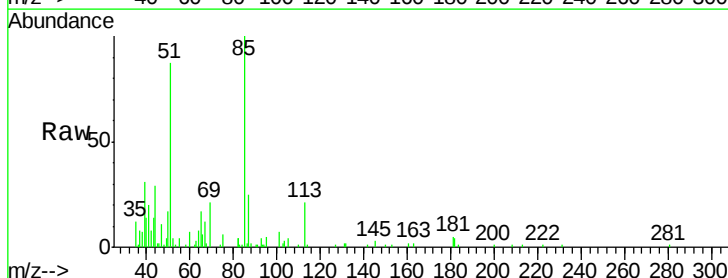
Acq: 19 Aug 2021 17:56

Tgt Ion: 85 Resp: 47840

Ion Ratio Lower Upper

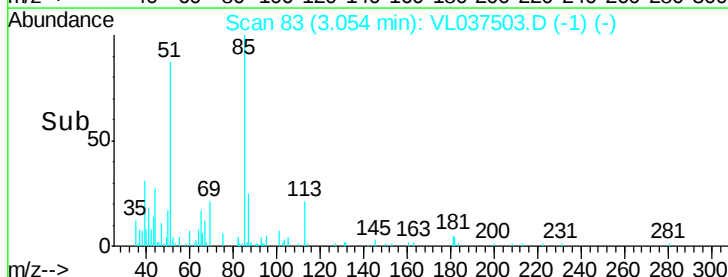
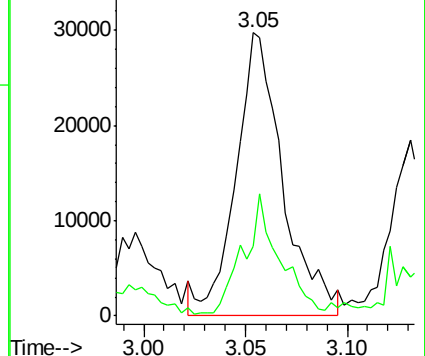
85 100

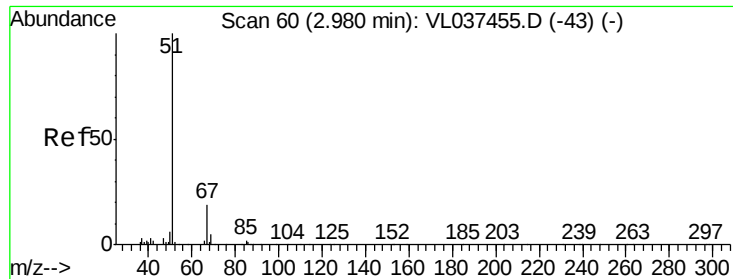
87 24.8 27.6 41.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 3.704 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-7

Tot Ion: 51 Resp: 1004830

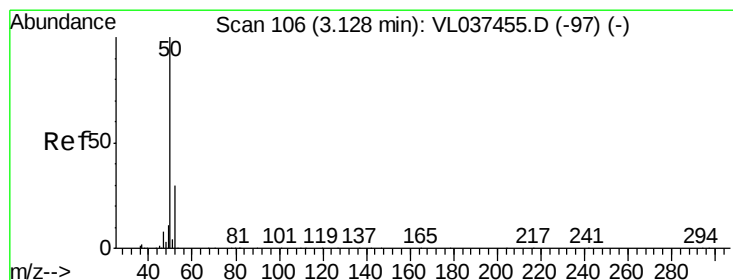
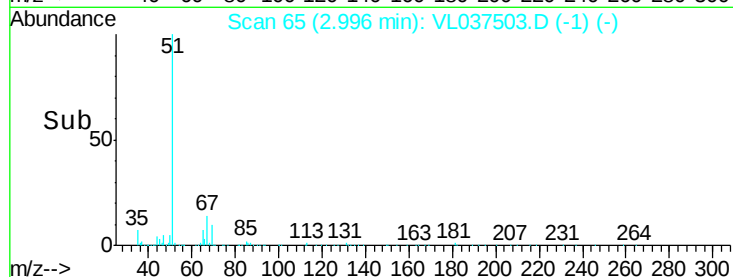
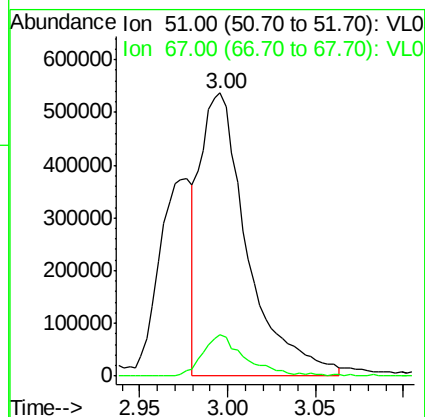
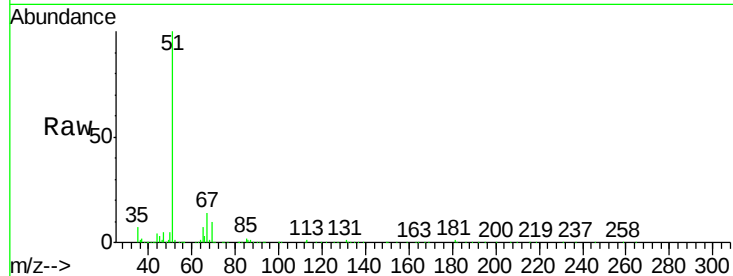
Ion Ratio Lower Upper

51 100

67 13.9 14.2 21.2#

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#4

Chloromethane

Concen: 0.353 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.02 min

Lab File: VL037503.D

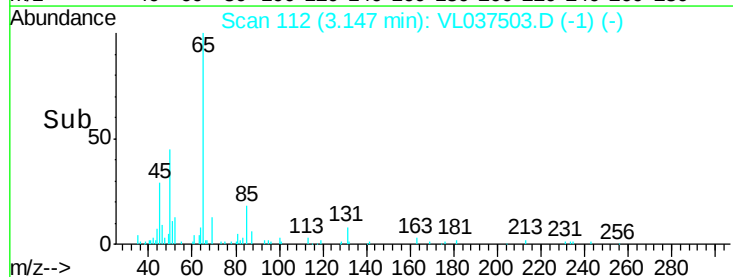
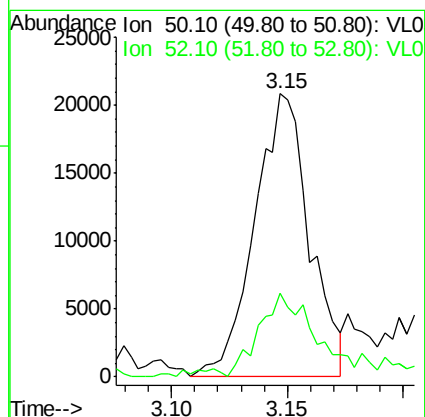
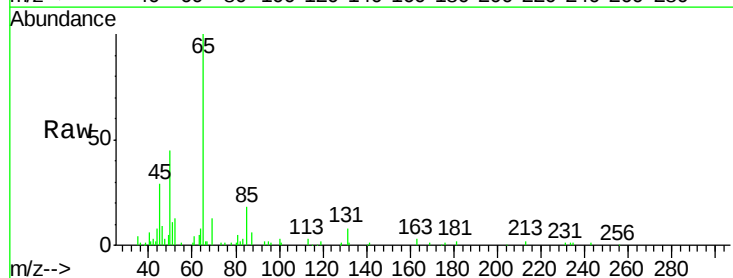
Acq: 19 Aug 2021 17:56

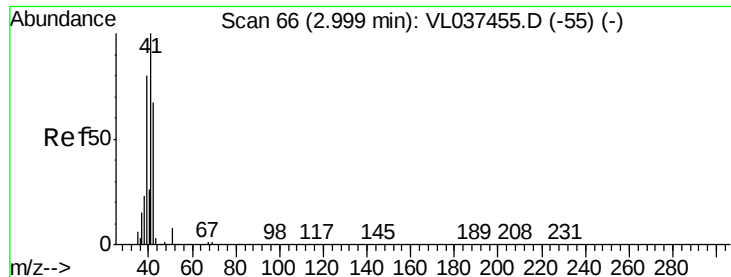
Tgt Ion: 50 Resp: 34218

Ion Ratio Lower Upper

50 100

52 28.8 24.0 36.0





#9

Propene

Concen: 0.678 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.03 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-7

Tot Ion: 41 Resp: 65840

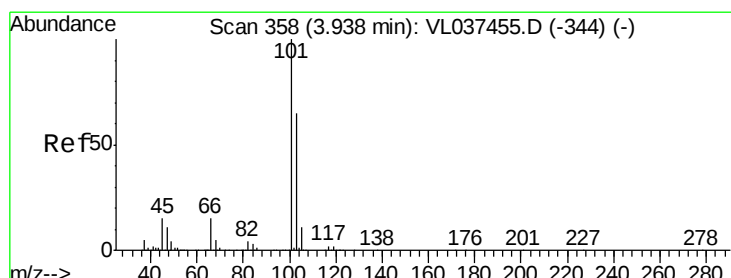
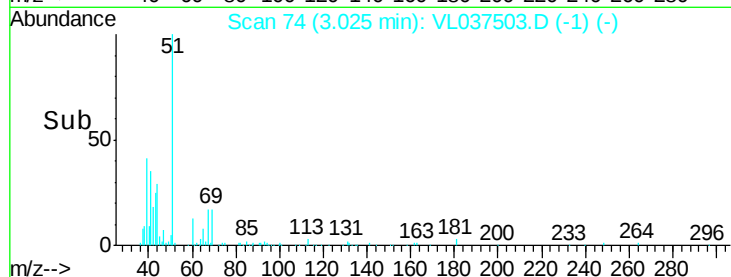
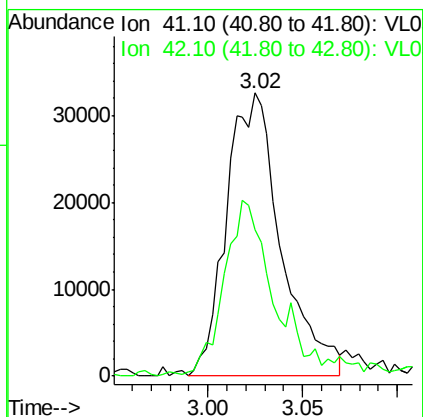
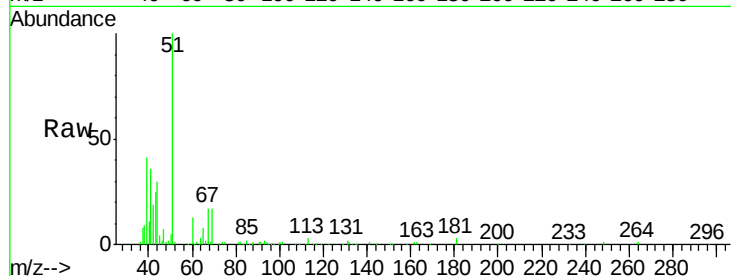
Ion Ratio Lower Upper

41 100

42 365.3 53.7 80.5#

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#11

Trichlorofluoromethane

Concen: 0.208 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL037503.D

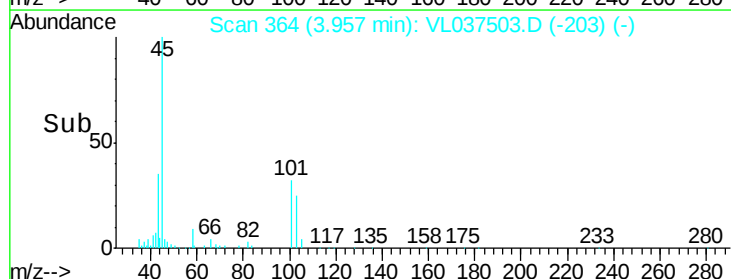
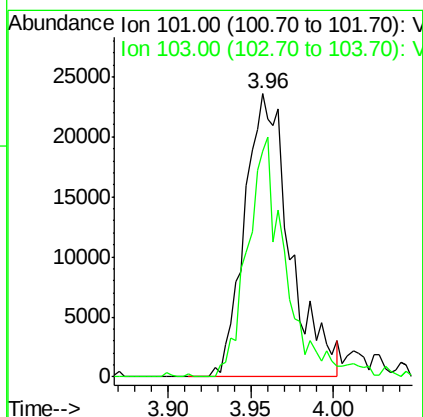
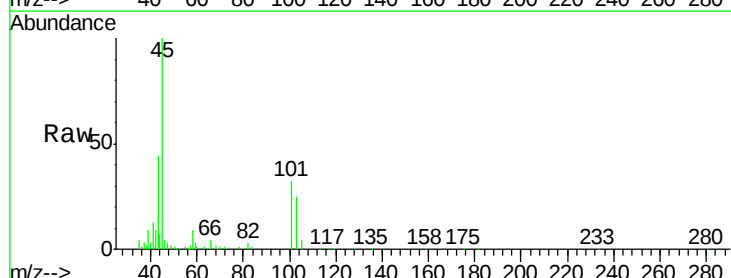
Acq: 19 Aug 2021 17:56

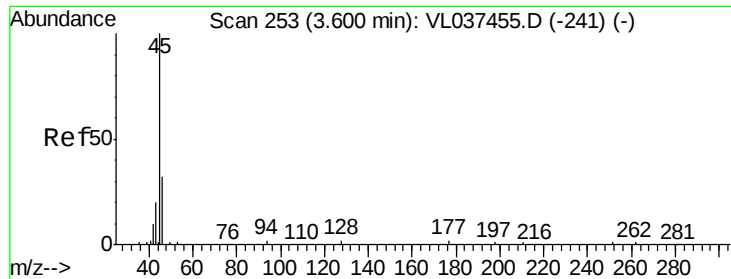
Tgt Ion: 101 Resp: 44478

Ion Ratio Lower Upper

101 100

103 80.0 51.8 77.6#





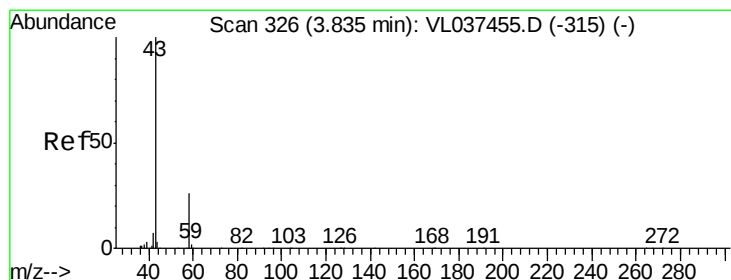
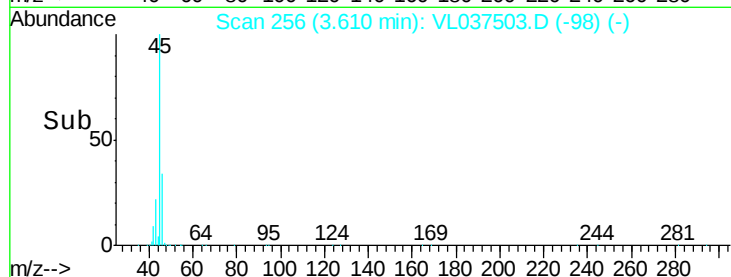
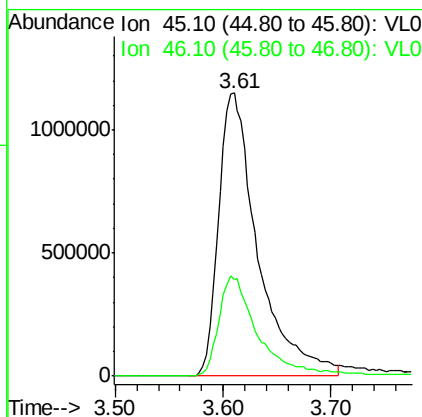
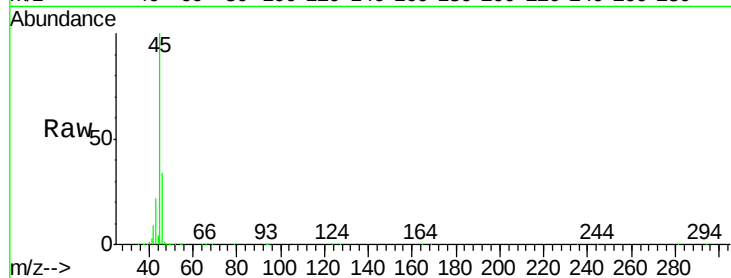
#13
Ethanol
Concen: 308.238 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.01 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Instrument :
MSVOA_L
ClientSampled :
SR-SG-7

Tot Ion: 45 Resp: 2911301
Ion Ratio Lower Upper
45 100
46 36.8 14.1 56.5

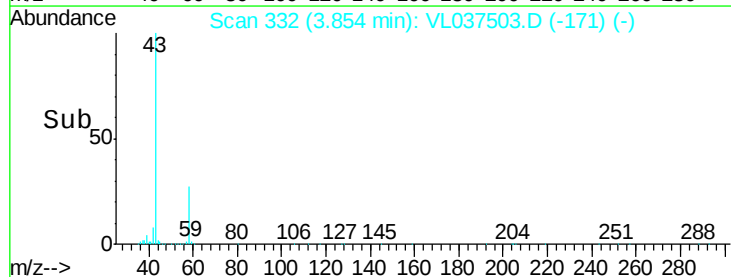
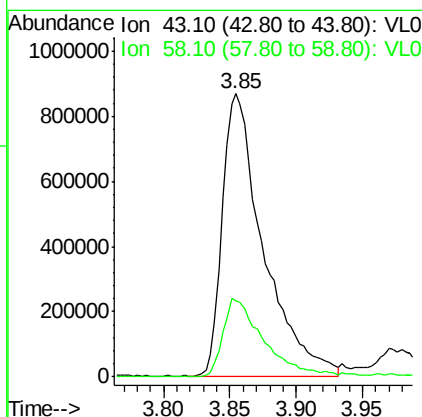
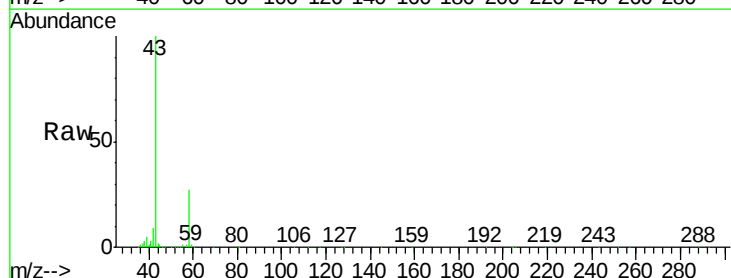
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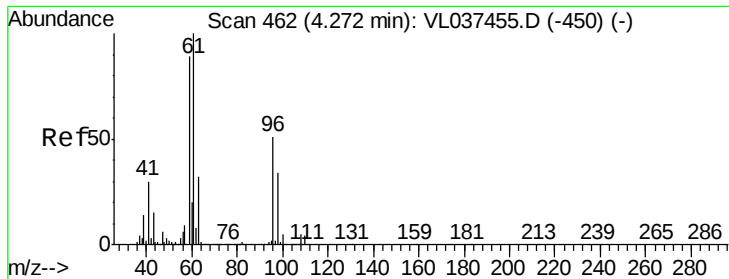
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#15
Acetone
Concen: 12.909 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Tgt Ion: 43 Resp: 1861215
Ion Ratio Lower Upper
43 100
58 28.2 24.8 37.2





#17

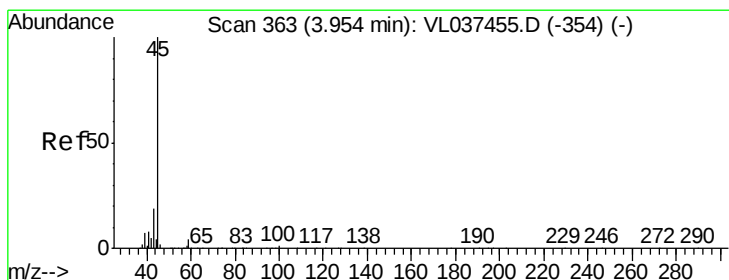
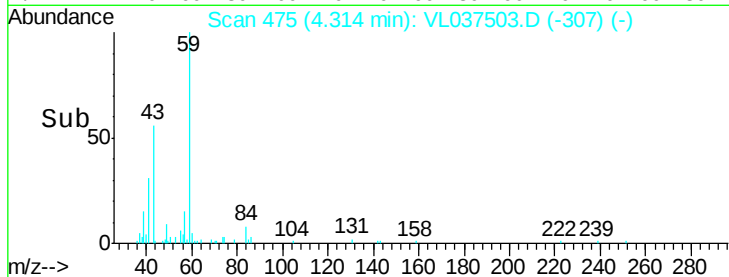
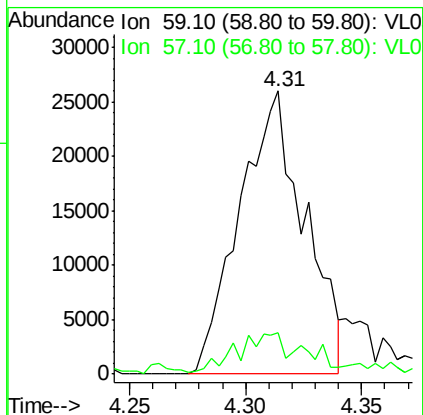
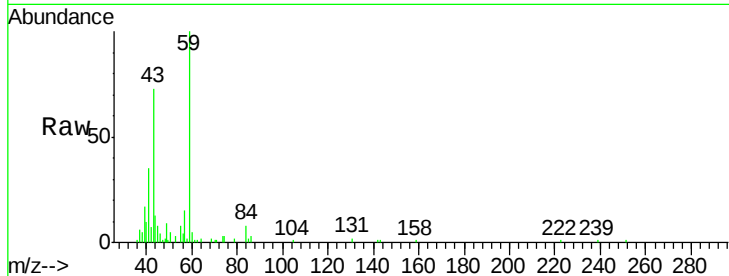
tert-Butyl alcohol
Concen: 0.385 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.04 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Instrument :
MSVOA_L
ClientSampled :
SR-SG-7

Tot Ion	Ratio	Lower	Upper
59	100		
57	18.2	8.3	12.5#

Manual Integrations
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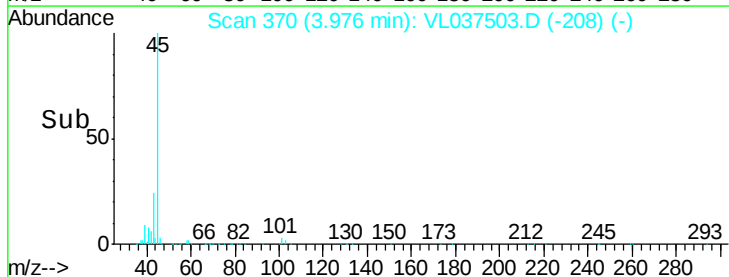
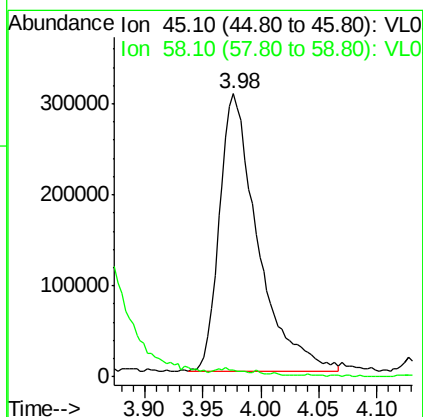
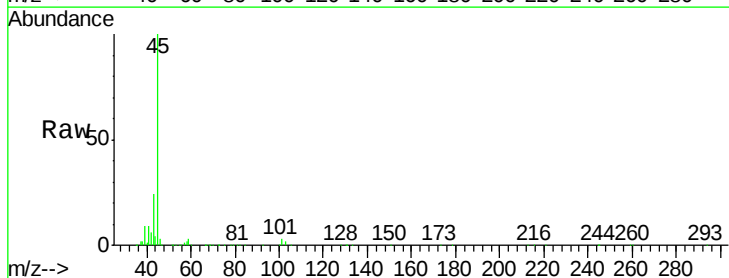
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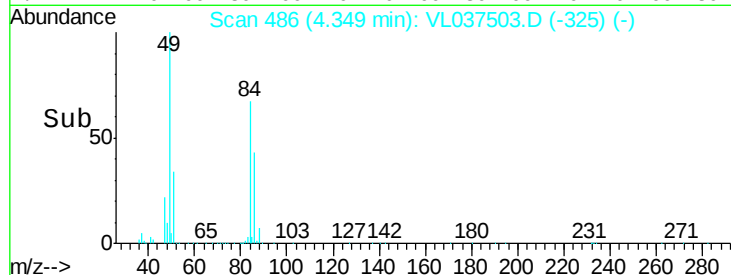
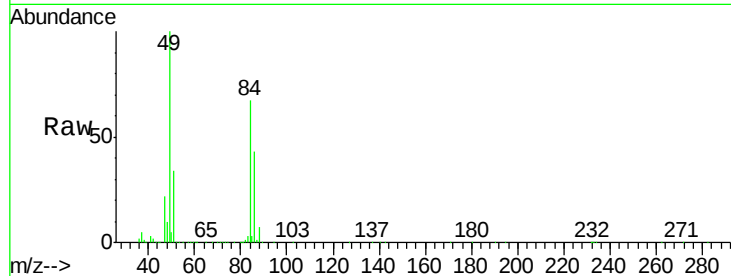
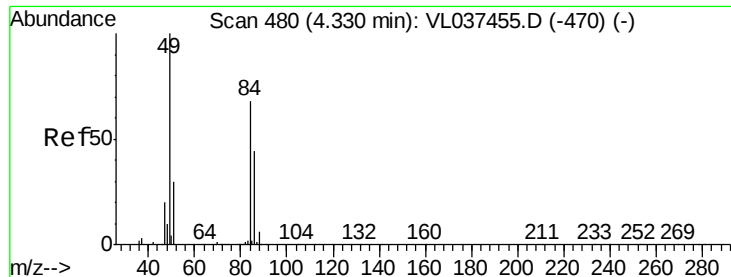


#19

Isopropyl Alcohol
Concen: 8.453 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.02 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Tgt Ion	Ratio	Lower	Upper
45	100		
58	3.6	1.4	2.2#





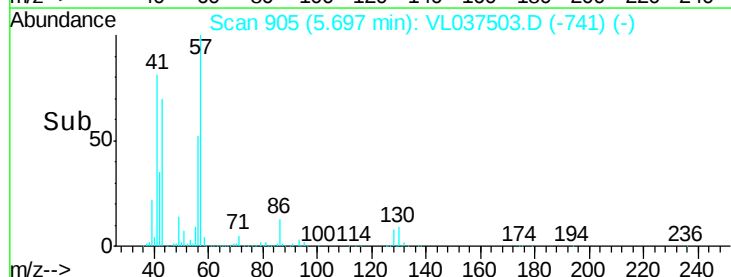
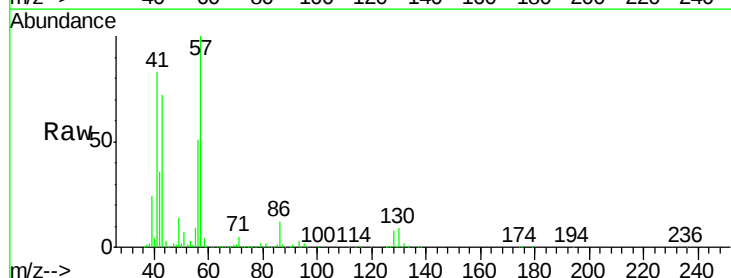
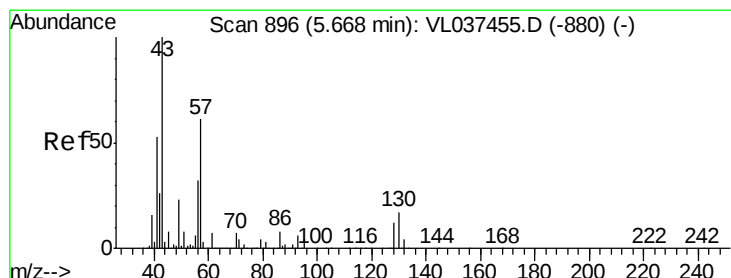
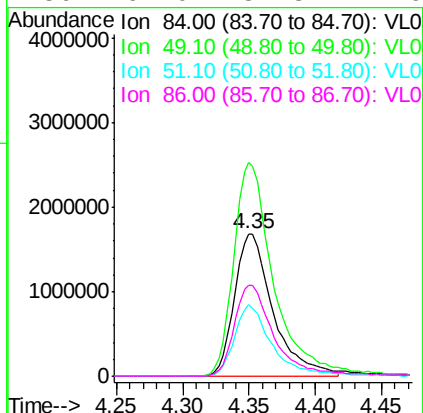
#20
Methvlene Chloride
Concen: 47.215 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.02 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Tot Ion:	84	Resp:	3408259
Ion	Ratio	Lower	Upper
84	100		
49	149.6	118.2	177.2
51	50.2	36.6	55.0
86	64.0	51.8	77.6

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-7

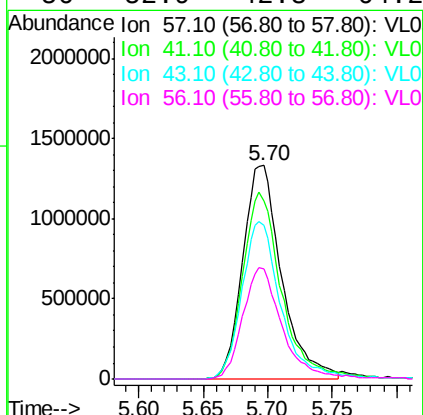
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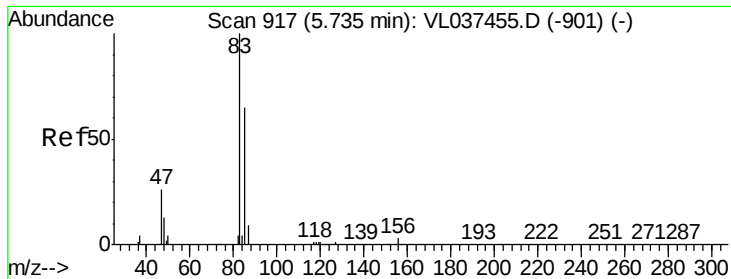
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#26
Hexane
Concen: 15.664 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Tgt Ion:	57	Resp:	2803181
Ion	Ratio	Lower	Upper
57	100		
41	88.2	72.3	108.5
43	74.7	172.3	258.5
56	52.9	42.8	64.2





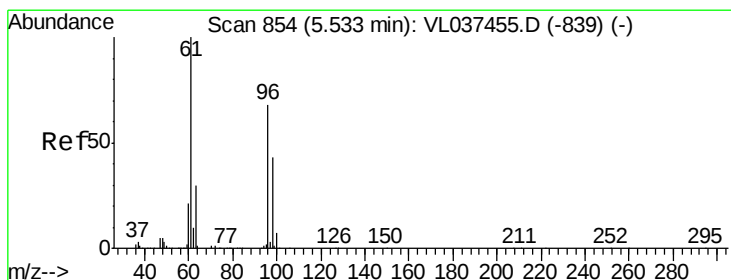
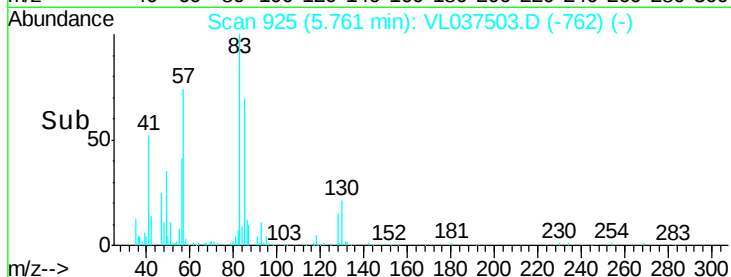
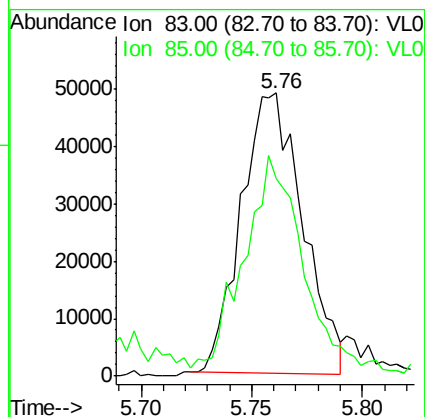
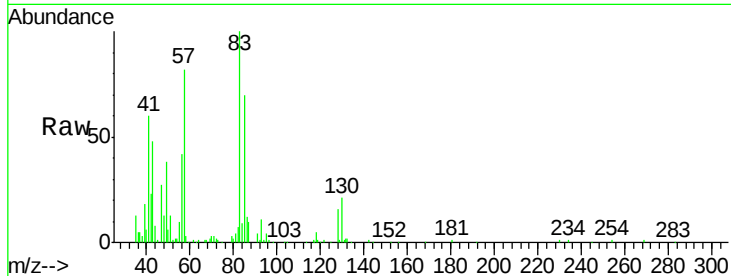
#29
Chloroform
Concen: 0.371 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.03 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-7

Tot Ion: 83 Resp: 93970
Ion Ratio Lower Upper
83 100
85 67.8 52.3 78.5

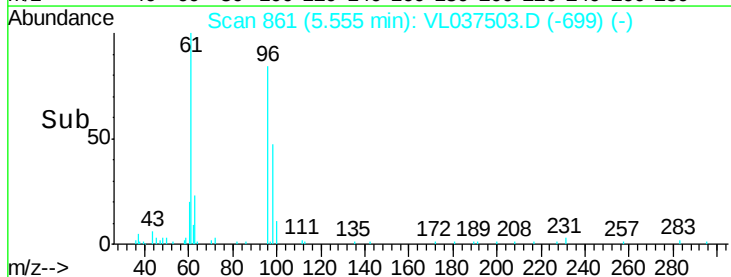
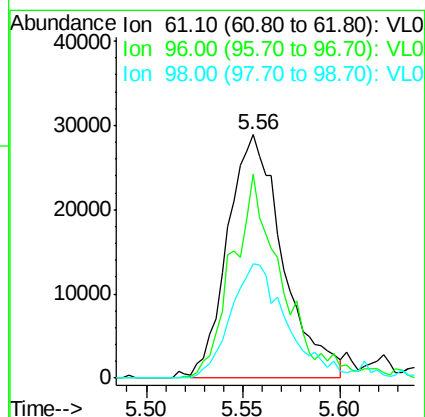
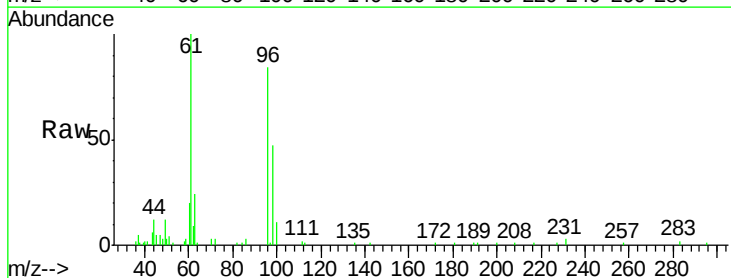
Manual Integrations
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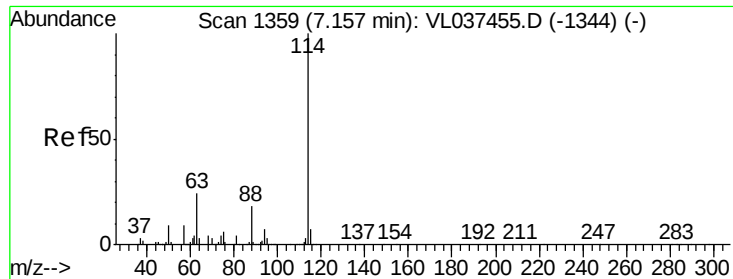
MMDadoda
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#31
cis-1,2-Dichloroethene
Concen: 0.355 ppbv
RT: 5.56 min Scan# 861
Delta R.T. 0.02 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Tgt Ion: 61 Resp: 57558
Ion Ratio Lower Upper
61 100
96 84.3 54.8 82.2#
98 47.6 34.2 51.2





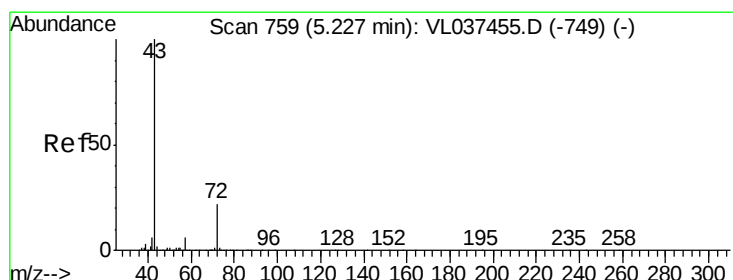
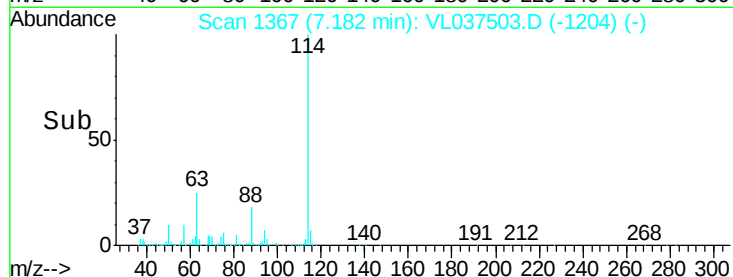
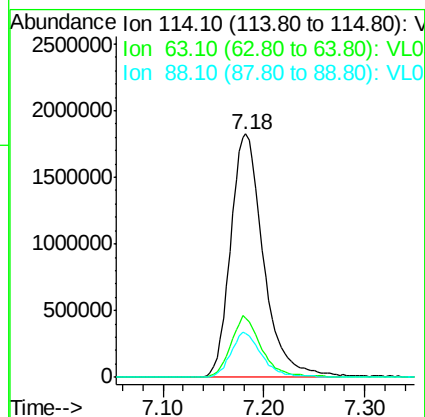
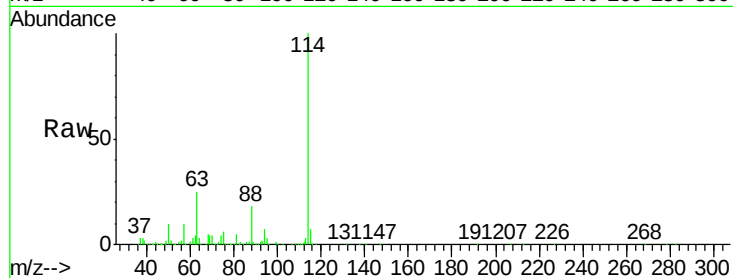
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.03 min
 Lab File: VL037503.D
 Acq: 19 Aug 2021 17:56

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-7

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.3	28.9
88	17.7	14.2	21.4

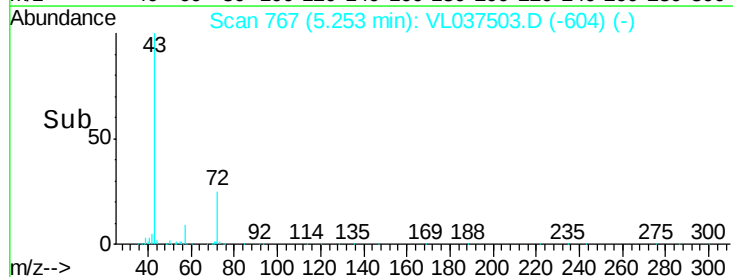
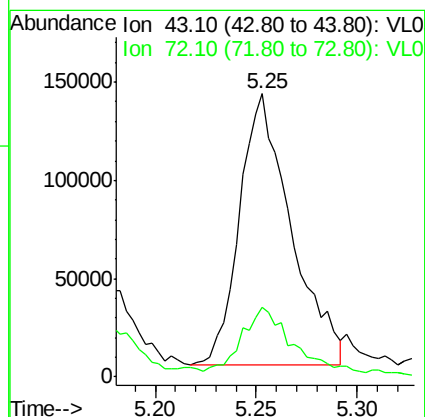
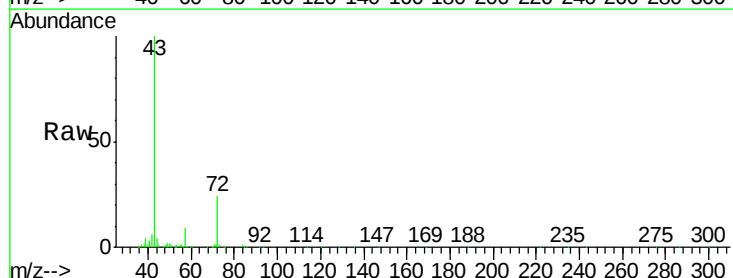
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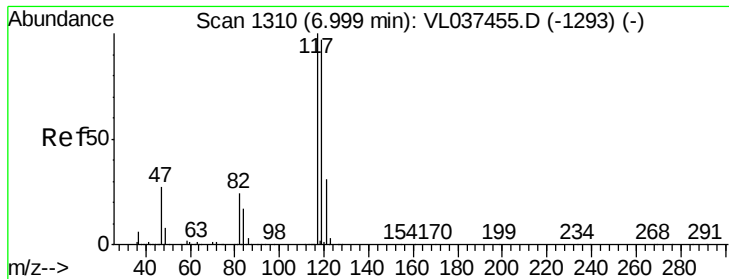
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 8/20/2021 6:31:13 PM



#34
 2-Butanone
 Concen: 1.463 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.03 min
 Lab File: VL037503.D
 Acq: 19 Aug 2021 17:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	29.8	17.4	26.0





#35

Carbon Tetrachloride

Concen: 0.065 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. 0.03 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Instrument :

MSVOA_L

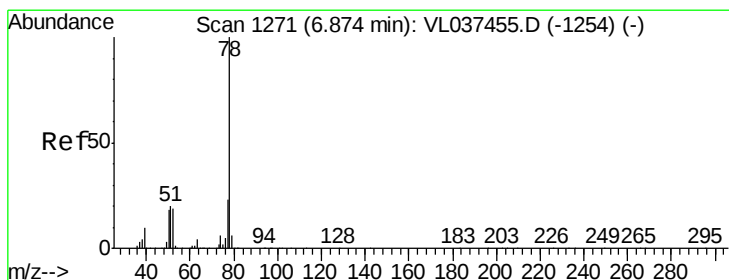
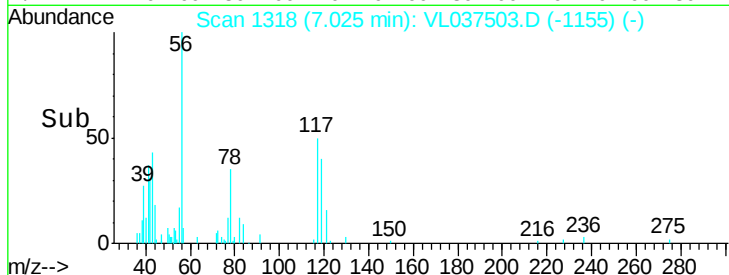
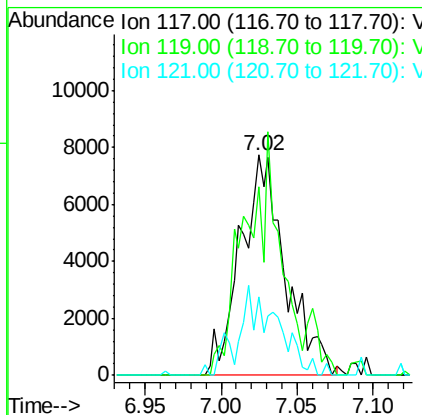
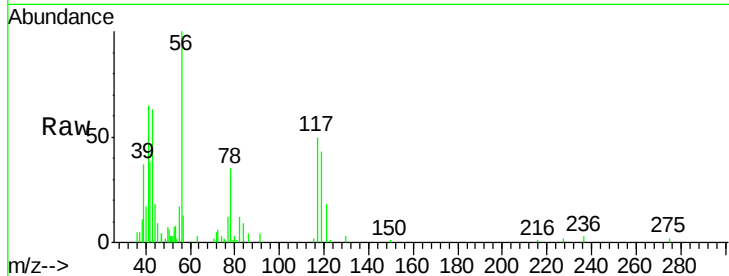
ClientSampleId :

SR-SG-7

Tot Ion:	117	Resp:	15964
Ion	Ratio	Lower	Upper
117	100		
119	85.5	77.3	115.9
121	36.0	25.2	37.8

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#36

Benzene

Concen: 7.666 ppbv

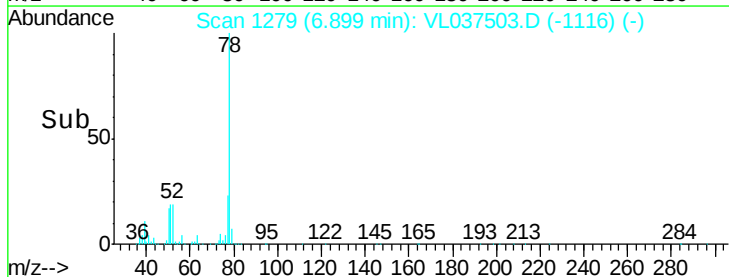
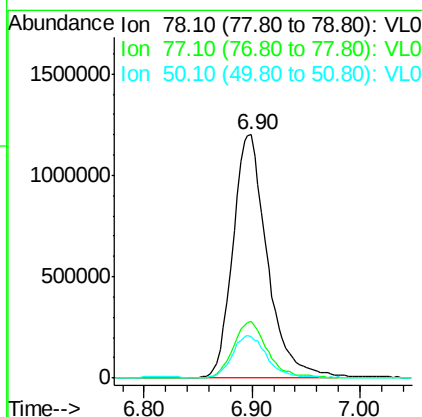
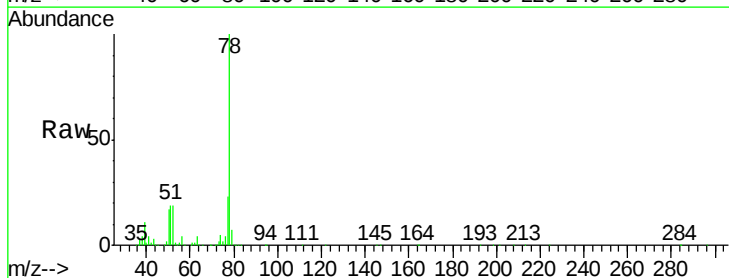
RT: 6.90 min Scan# 1279

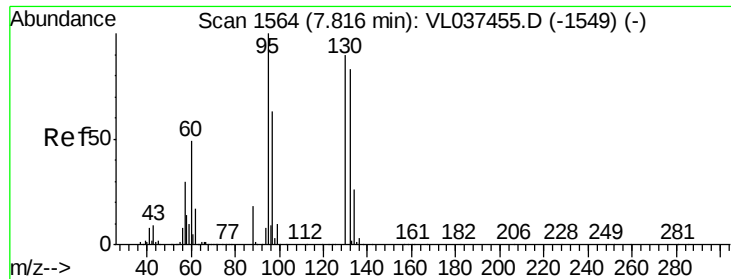
Delta R.T. 0.03 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Tgt Ion:	78	Resp:	2667388
Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.2	27.4
50	16.8	14.6	21.8





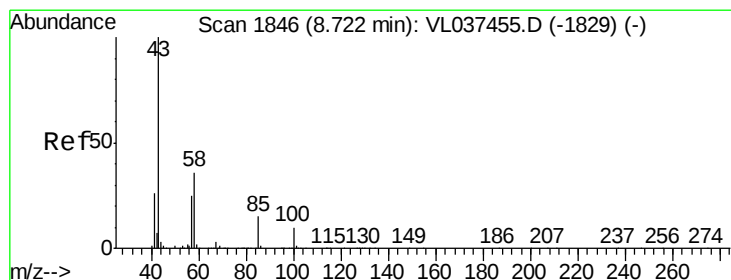
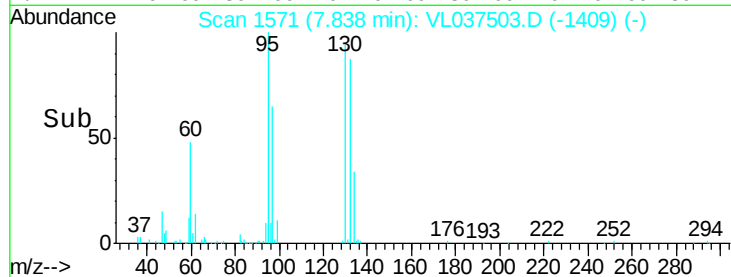
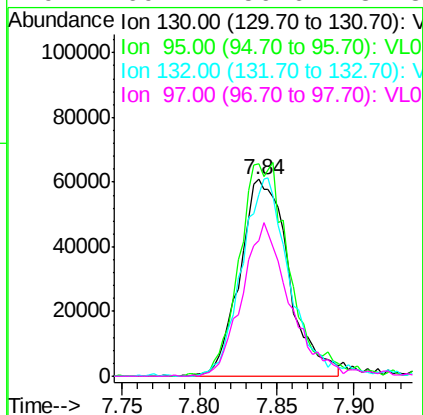
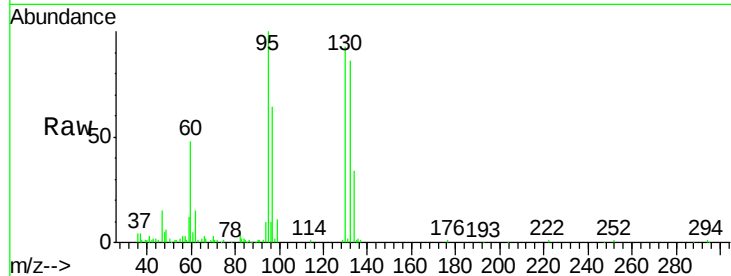
#38
 Trichloroethene
 Concen: 0.932 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.02 min
 Lab File: VL037503.D
 Acq: 19 Aug 2021 17:56

Instrument :
 MSVOA_L
 ClientSampled :
 SR-SG-7

Tot Ion	Ratio	Lower	Upper
130	100		
95	107.5	89.2	133.8
132	93.3	74.0	111.0
97	69.7	56.6	84.8

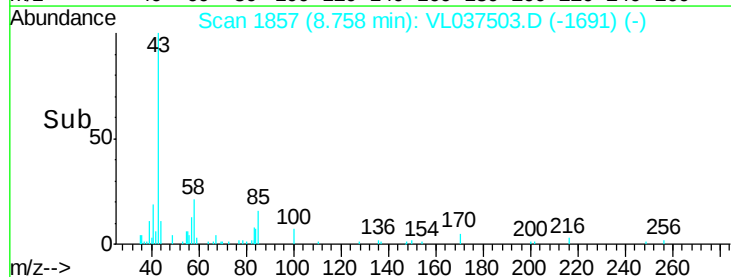
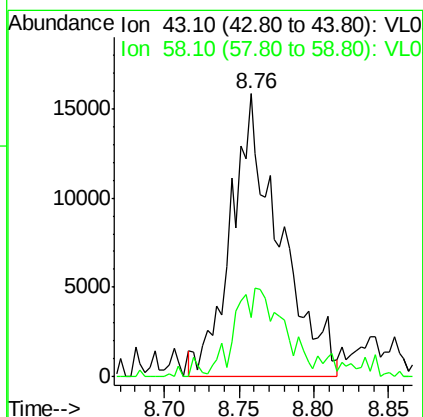
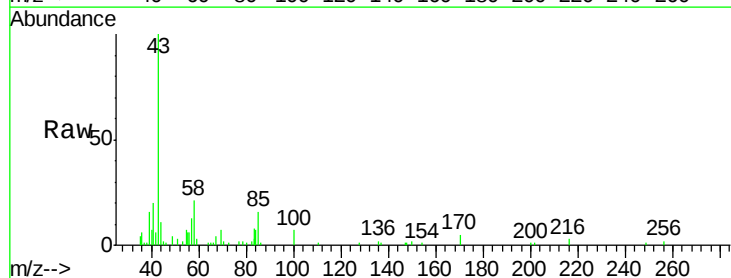
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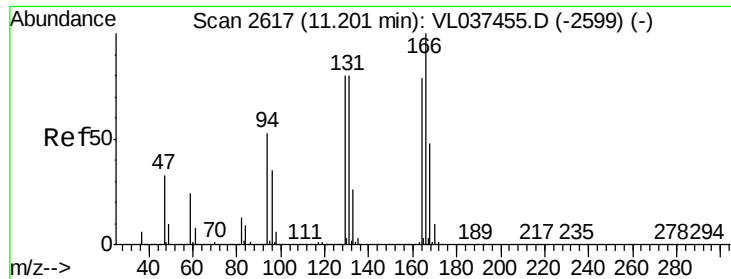
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#50
 4-Methyl-2-Pentanone
 Concen: 0.162 ppbv m
 RT: 8.76 min Scan# 1857
 Delta R.T. 0.04 min
 Lab File: VL037503.D
 Acq: 19 Aug 2021 17:56

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.9	44.9





#52

Tetrachloroethene

Concen: 0.125 ppbv m

RT: 11.23 min Scan# 2626

Delta R.T. 0.03 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-7

Tot Ion:164 Resp: 17852

Ion Ratio Lower Upper

164 100

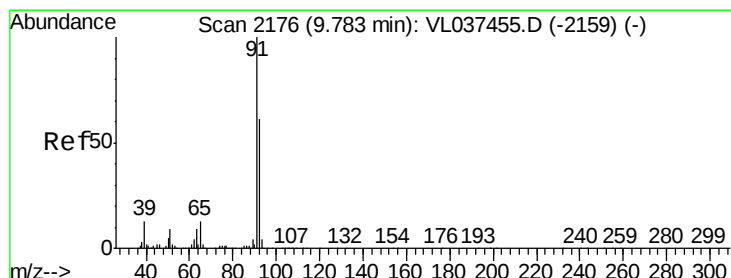
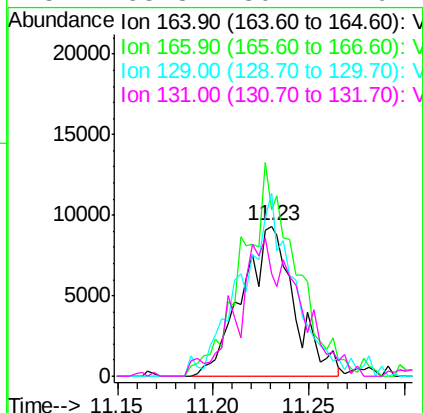
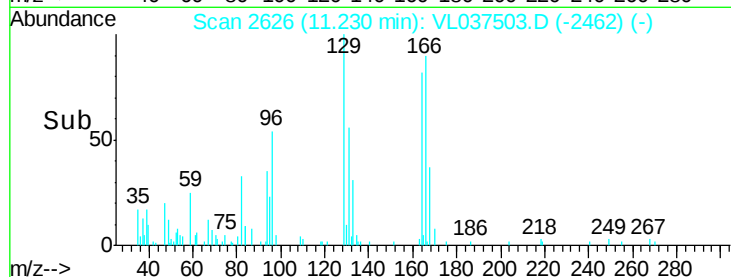
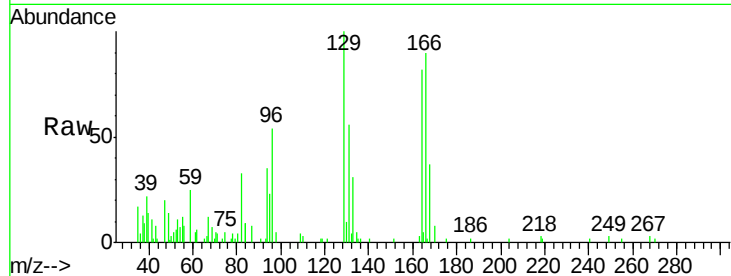
166 110.3 100.7 151.1

129 122.0 80.9 121.3#

131 68.3 80.2 120.4#

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#53

Toluene

Concen: 0.329 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.03 min

Lab File: VL037503.D

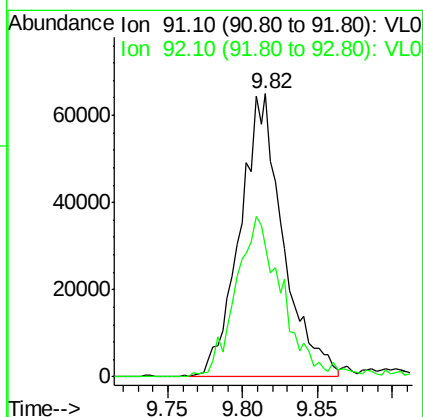
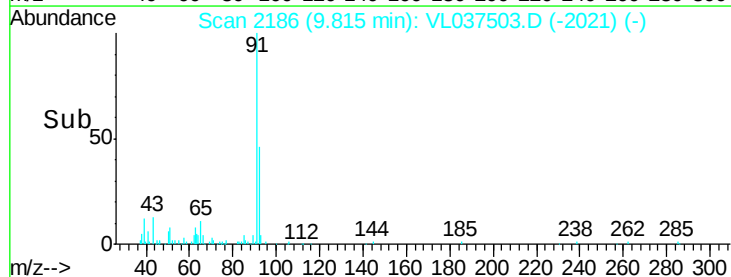
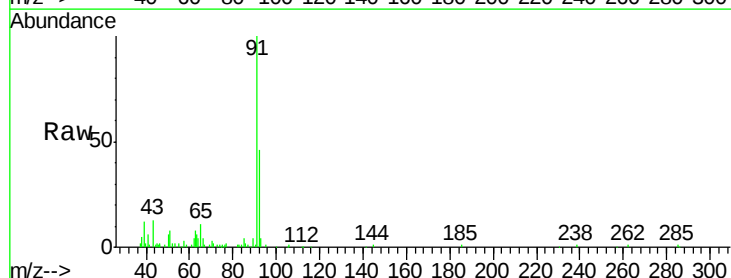
Acq: 19 Aug 2021 17:56

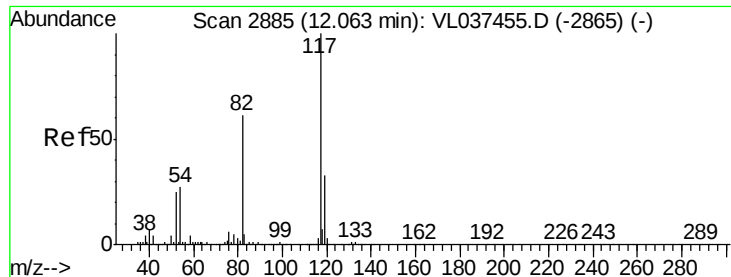
Tgt Ion: 91 Resp: 130821

Ion Ratio Lower Upper

91 100

92 61.1 48.8 73.2





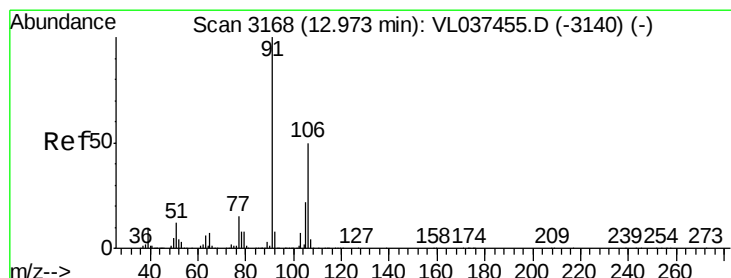
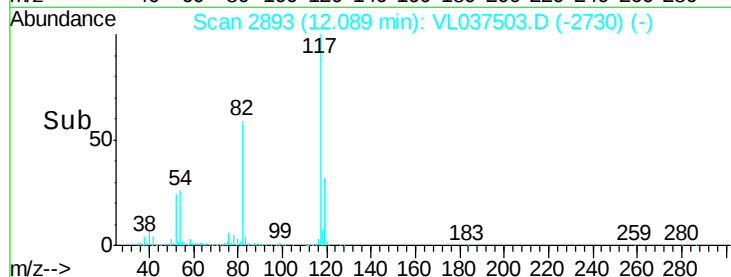
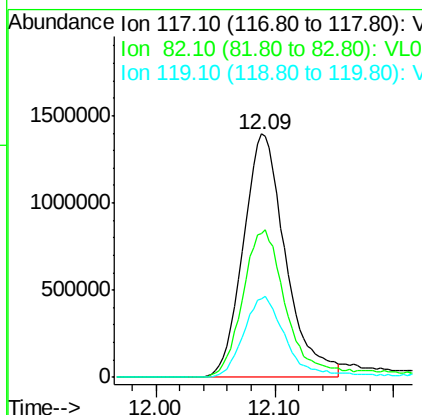
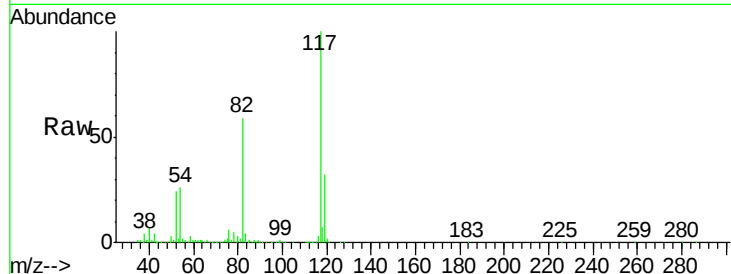
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. 0.03 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-7

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.2	52.9	79.3
119	35.6	24.8	37.2

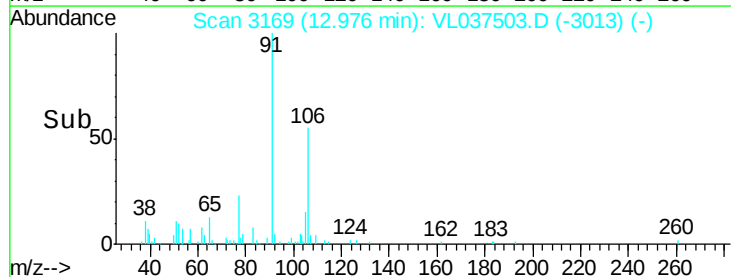
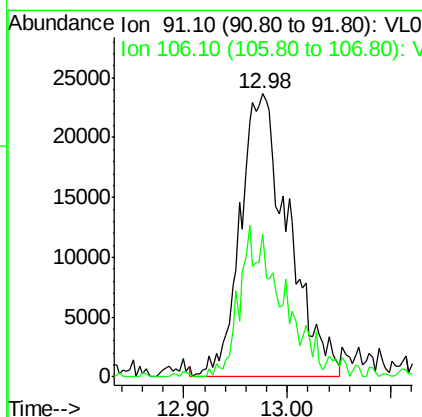
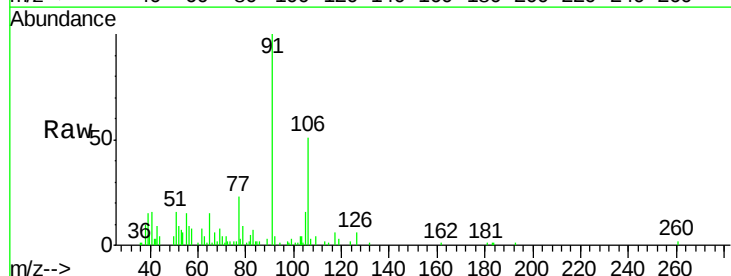
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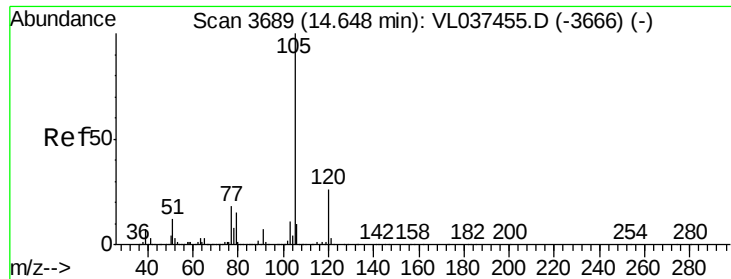
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#59
m/p-Xylene
Concen: 0.185 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VL037503.D
Acq: 19 Aug 2021 17:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.9	55.3





#62

Isopropylbenzene

Concen: 1.504 ppbv

RT: 14.67 min Scan# 3697

Delta R.T. 0.03 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-7

Tot Ion: 105 Resp: 819131

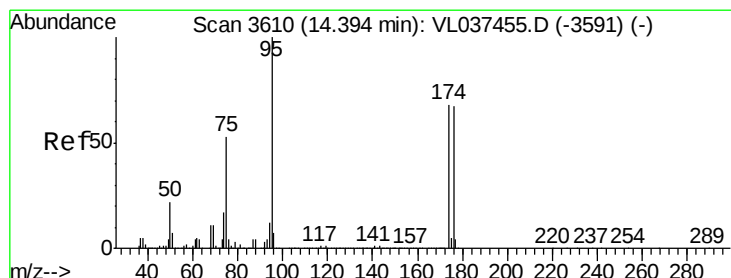
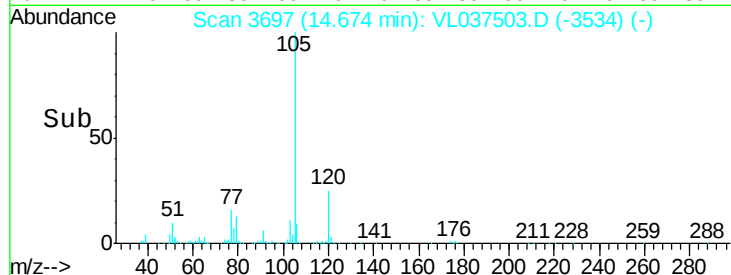
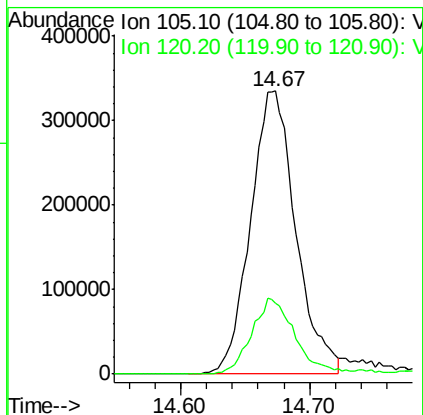
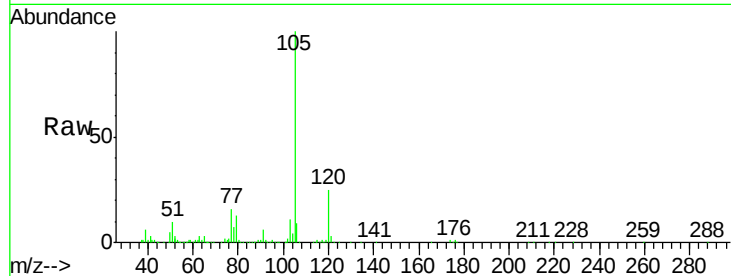
Ion Ratio Lower Upper

105 100

120 26.5 21.5 32.3

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.764 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.03 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

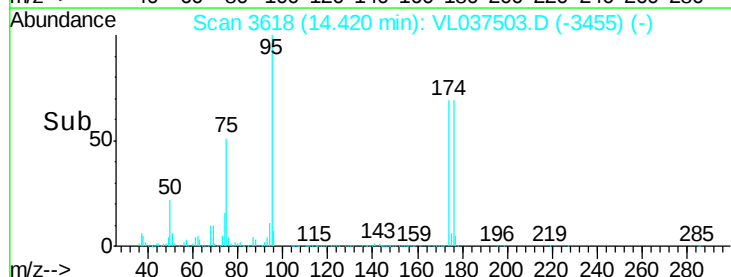
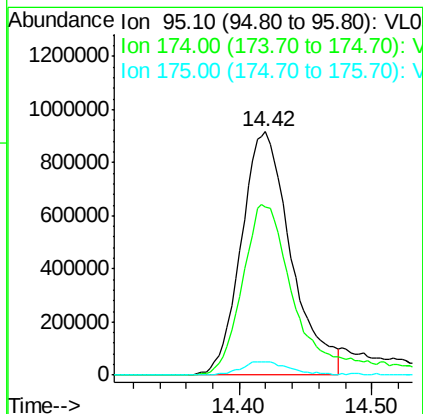
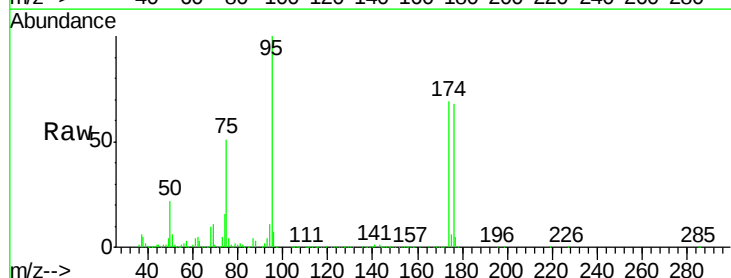
Tgt Ion: 95 Resp: 2383539

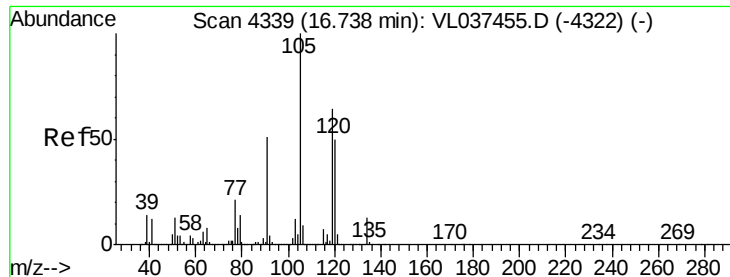
Ion Ratio Lower Upper

95 100

174 79.6 59.6 89.4

175 5.7 4.6 7.0





#74

1,2,4-Trimethylbenzene

Concen: 0.205 ppbv m

RT: 16.76 min Scan# 4347

Delta R.T. 0.03 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

Instrument :

MSVOA_L

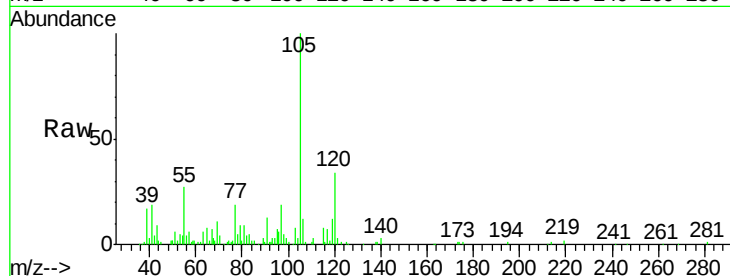
ClientSampleId :

SR-SG-7

Tot Ion	Ratio	Resp	Lower	Upper
105	100	93115		
120	34.1	40.4	60.6#	
91	12.6	44.6	67.0#	
77	19.1	17.8	26.6	

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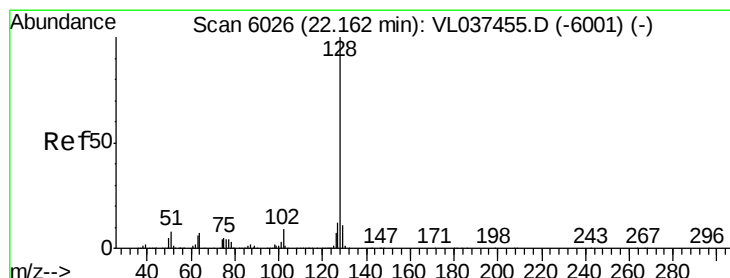
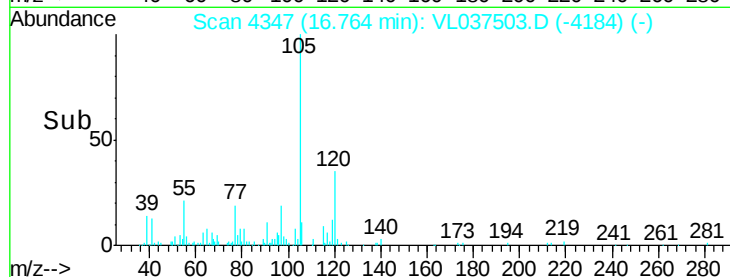
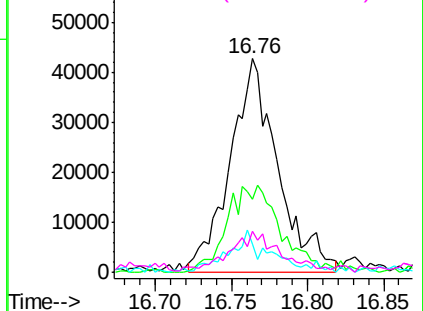


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.221 ppbv m

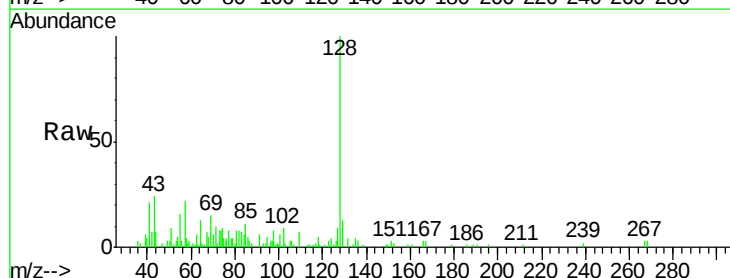
RT: 22.20 min Scan# 6038

Delta R.T. 0.04 min

Lab File: VL037503.D

Acq: 19 Aug 2021 17:56

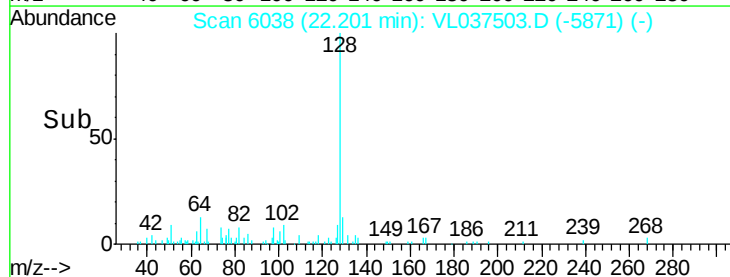
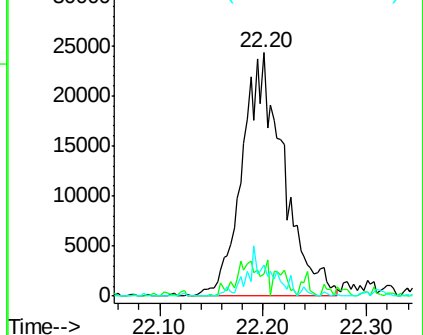
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	67277		
127	9.2	9.4	14.2#	
129	13.1	8.8	13.2	

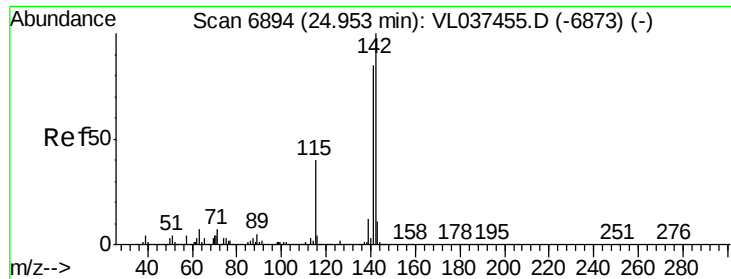


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80
 Naphthalene,2-methyl-
 Concen: 0.133 ppbv
 RT: 24.98 min Scan# 6903
 Delta R.T. 0.03 min
 Lab File: VL037503.D
 Acq: 19 Aug 2021 17:56

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-7

Tot Ion	Ratio	Lower	Upper
142	100		
141	79.1	64.7	97.1
115	56.6	28.4	42.6

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