

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037511.D
 Acq On : 19 Aug 2021 23:10
 Operator : SY/AP
 Sample : M3480-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-4

Manual Integrations
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 8/20/2021 6:31:42 PM

Quant Time: Aug 20 15:02:19 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	1390614	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4092423	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3473855	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2410337	9.77	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	56859m	0.255	ppbv	
3) Chlorodifluoromethane	2.99	51	2014707m	7.566	ppbv	
9) Propene	3.02	41	137815	1.446	ppbv	91
10) Heptane	8.12	43	35920m	0.164	ppbv	
11) Trichlorofluoromethane	3.96	101	35429	0.169	ppbv	92
13) Ethanol	3.61	45	9727406	1049.207	ppbv	95
15) Acetone	3.85	43	4405735	31.130	ppbv	91
19) Isopropyl Alcohol	3.98	45	4325400	53.347	ppbv	99
20) Methylene Chloride	4.35	84	487137	6.875	ppbv	91
26) Hexane	5.69	57	374915	2.134	ppbv	84
29) Chloroform	5.76	83	98493	0.396	ppbv	99
30) Cyclohexane	7.14	84	34558m	0.236	ppbv	
34) 2-Butanone	5.25	43	199735	1.195	ppbv	# 89
35) Carbon Tetrachloride	7.02	117	14990m	0.062	ppbv	
36) Benzene	6.89	78	42523m	0.124	ppbv	
38) Trichloroethene	7.83	130	23647m	0.168	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	40411m	0.185	ppbv	
52) Tetrachloroethene	11.22	164	8427m	0.060	ppbv	
53) Toluene	9.81	91	200596m	0.511	ppbv	
59) m/p-Xylene	12.97	91	84321m	0.202	ppbv	
61) Styrene	13.53	104	42314m	0.209	ppbv	
69) p-Isopropyltoluene	17.66	119	56778m	0.099	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	48174m	0.105	ppbv	
79) Naphthalene	22.21	128	46345m	0.151	ppbv	

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

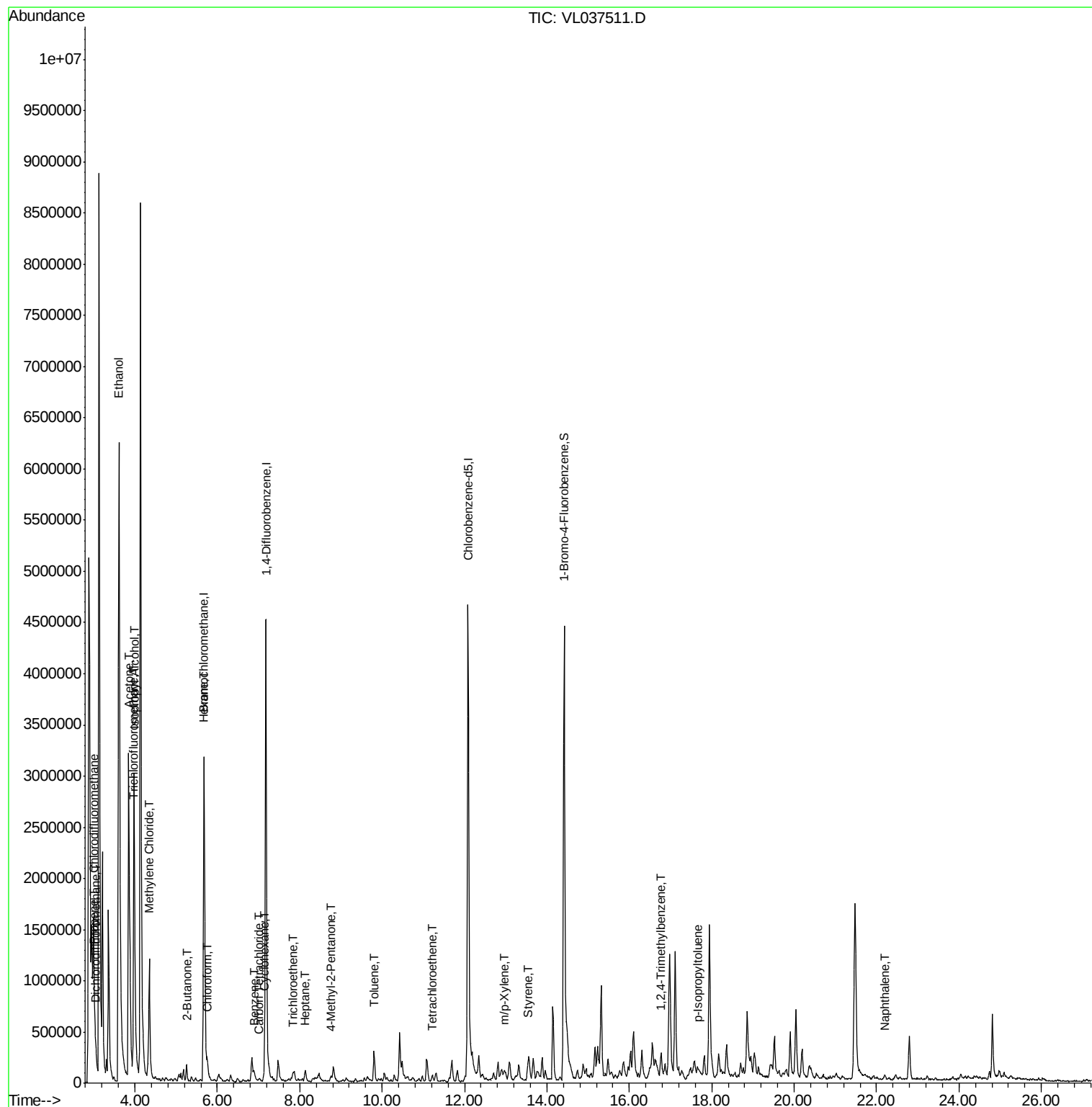
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081921\
Data File : VL037511.D
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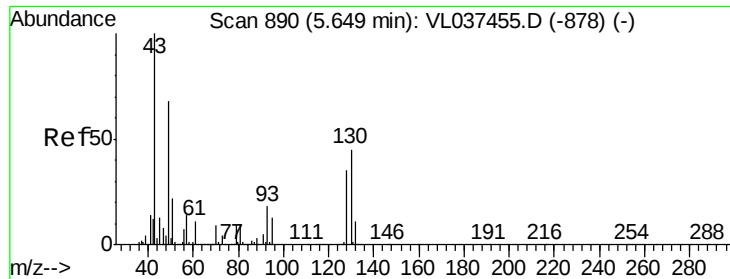
Instrument :
MSVOA_L
ClientSampleId :
SR-SG-4

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Quant Time: Aug 20 15:02:19 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: VL037511.D

Acq: 19 Aug 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-4

Tot Ion: 49 Resp: 1390614

Ion Ratio Lower Upper

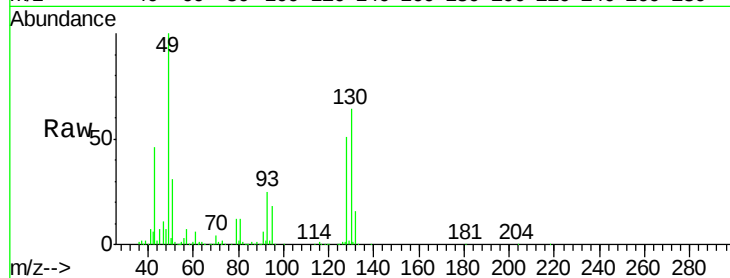
49 100

128 53.7 27.5 82.4

130 68.4 34.0 101.8

Manual Integrations
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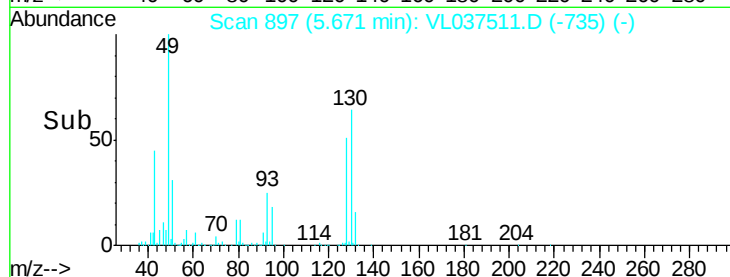
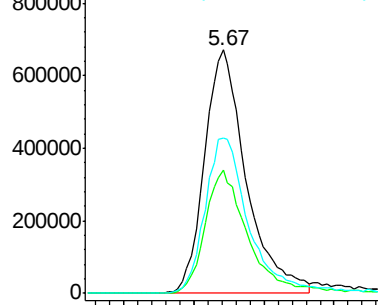
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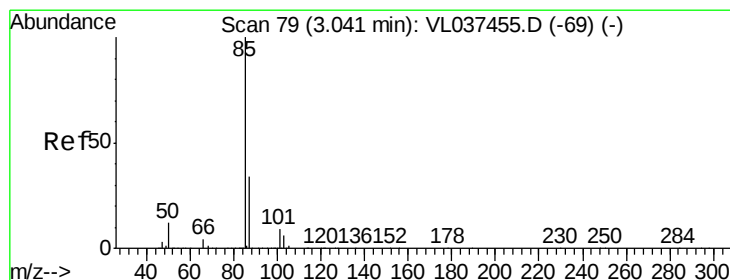
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.255 ppbv m

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL037511.D

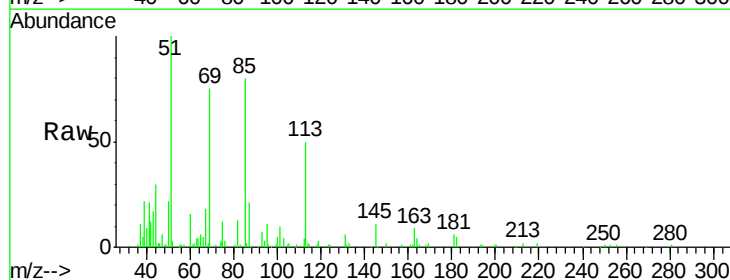
Acq: 19 Aug 2021 23:10

Tgt Ion: 85 Resp: 56859

Ion Ratio Lower Upper

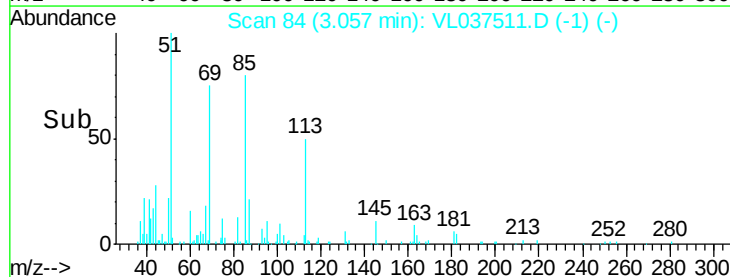
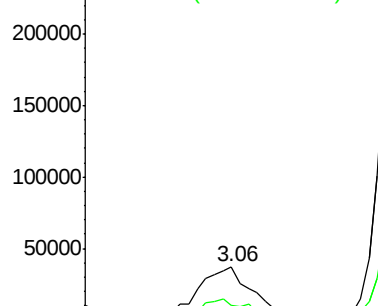
85 100

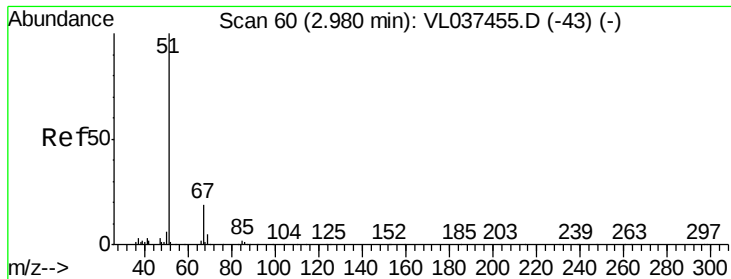
87 26.5 27.6 41.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





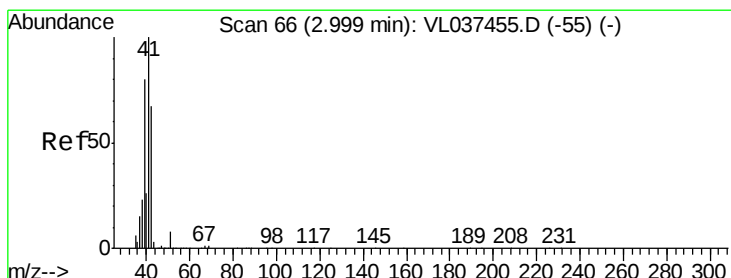
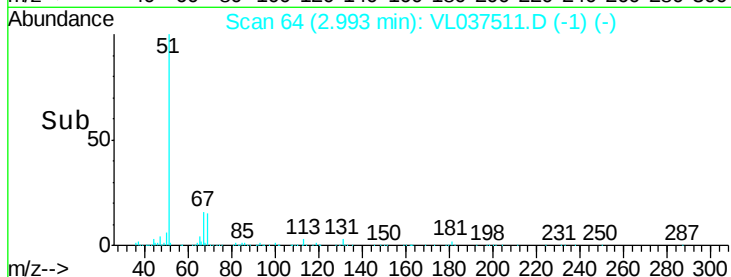
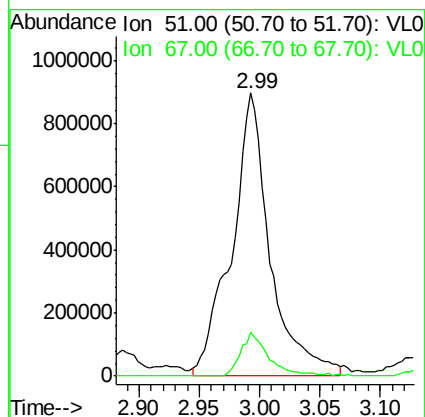
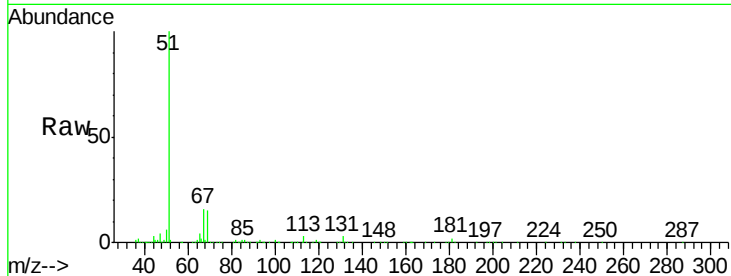
#3
Chlorodifluoromethane
Concen: 7.566 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.01 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Instrument :
MSVOA_L
ClientSampled :
SR-SG-4

Tot Ion: 51 Resp: 2014707
Ion Ratio Lower Upper
51 100
67 1.4 14.2 21.2#

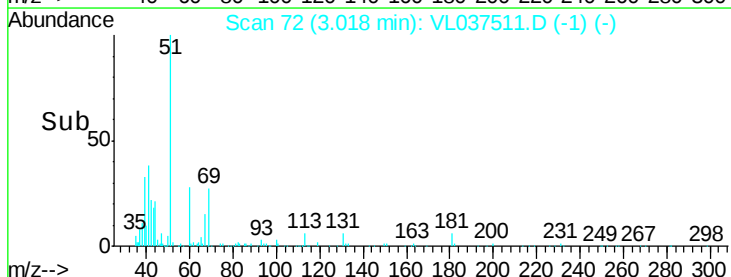
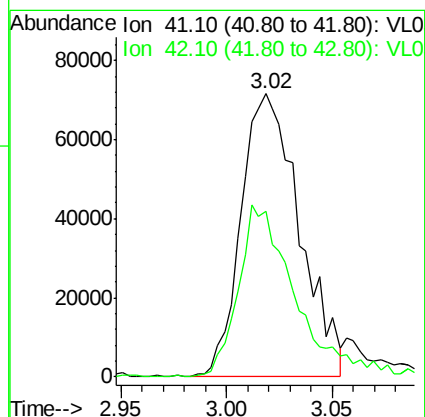
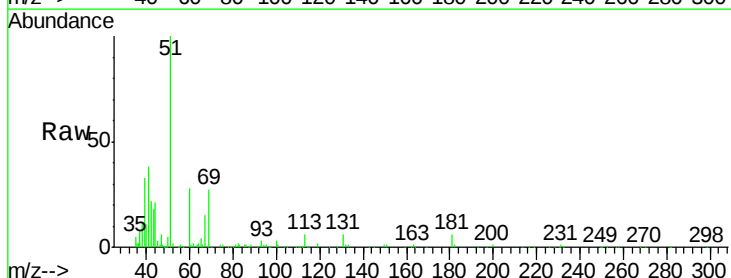
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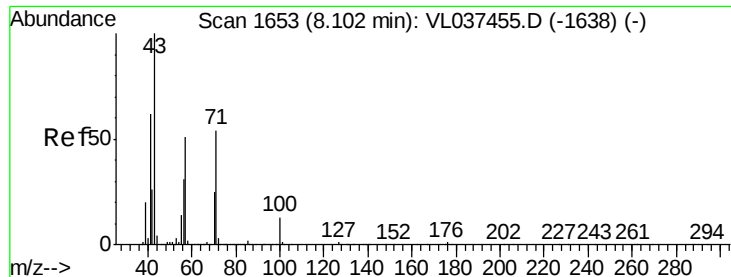
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#9
Propene
Concen: 1.446 ppbv
RT: 3.02 min Scan# 72
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Tgt Ion: 41 Resp: 137815
Ion Ratio Lower Upper
41 100
42 59.6 53.7 80.5





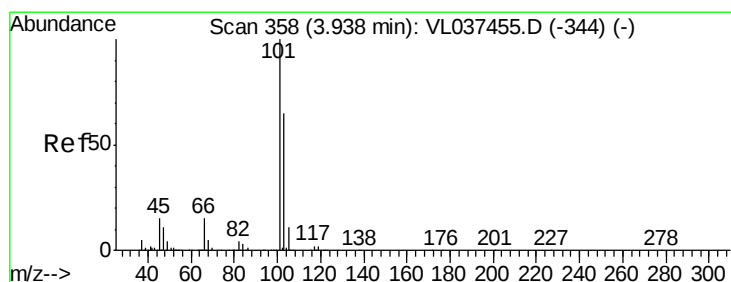
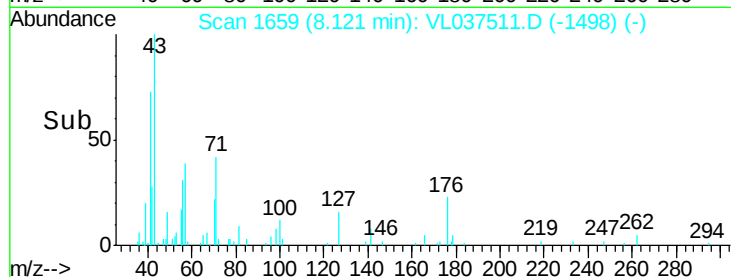
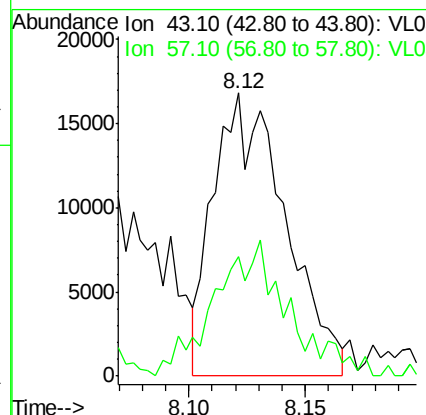
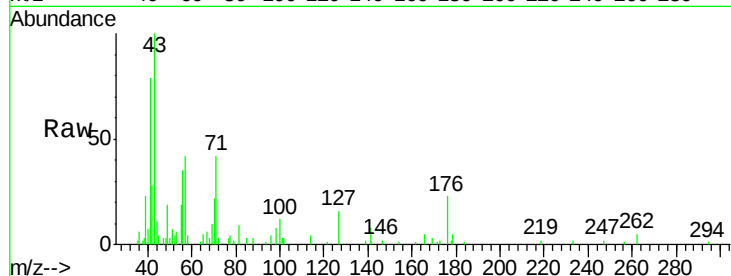
#10
 Heptane
 Concen: 0.164 ppbv m
 RT: 8.12 min Scan# 1659
 Delta R.T. 0.02 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-4

Tot Ion: 43 Resp: 35920
 Ion Ratio Lower Upper
 43 100
 57 51.4 41.0 61.6

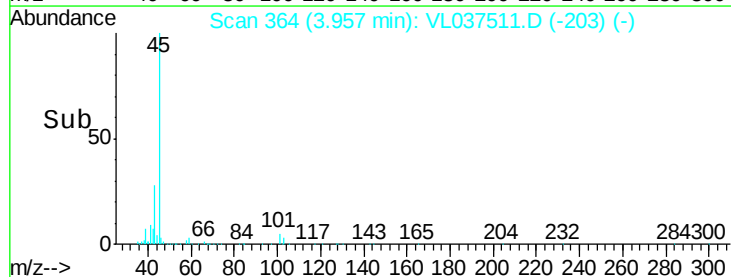
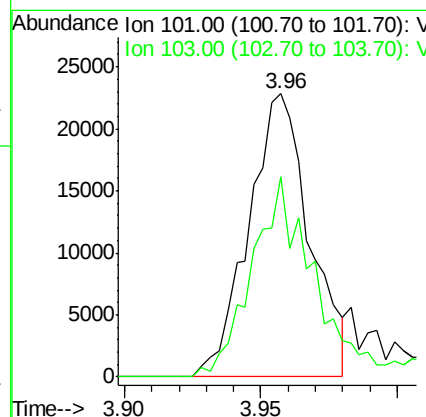
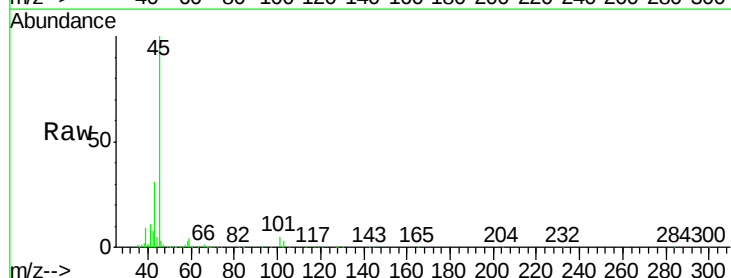
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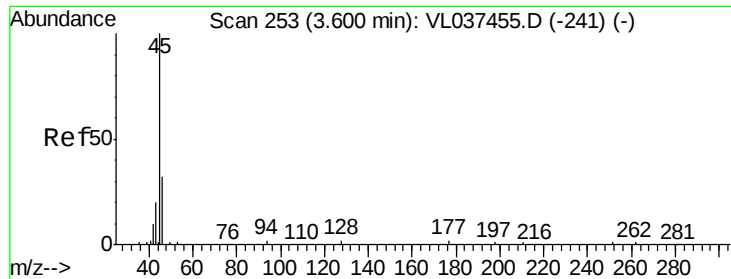
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#11
 Trichlorofluoromethane
 Concen: 0.169 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Tgt Ion: 101 Resp: 35429
 Ion Ratio Lower Upper
 101 100
 103 70.7 51.8 77.6





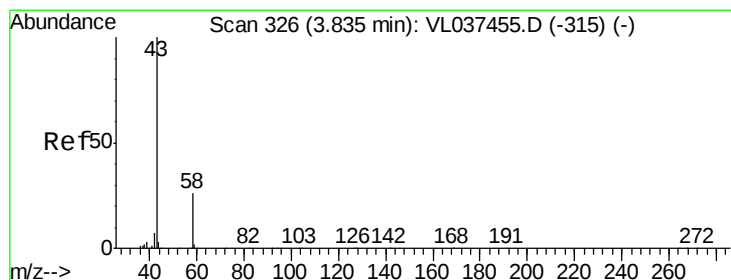
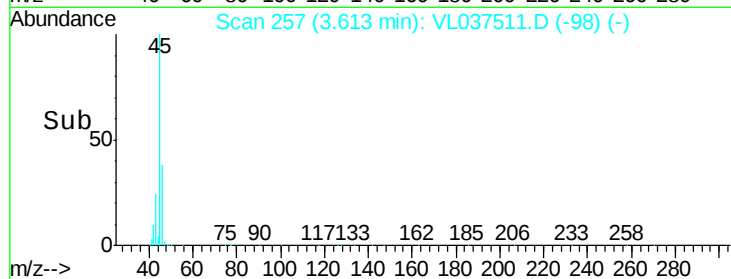
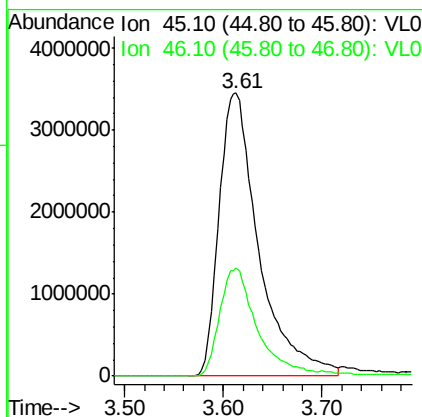
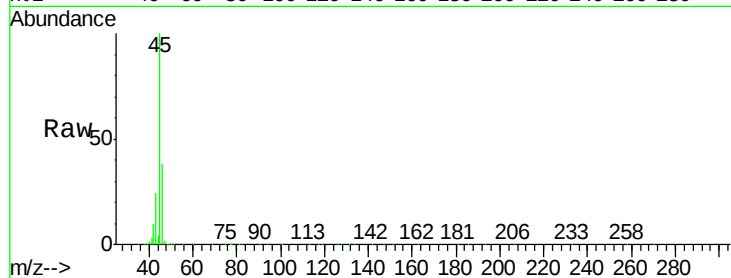
#13
Ethanol
Concen: 1049.207 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-4

Tot Ion: 45 Resp: 9727406
Ion Ratio Lower Upper
45 100
46 38.2 14.1 56.5

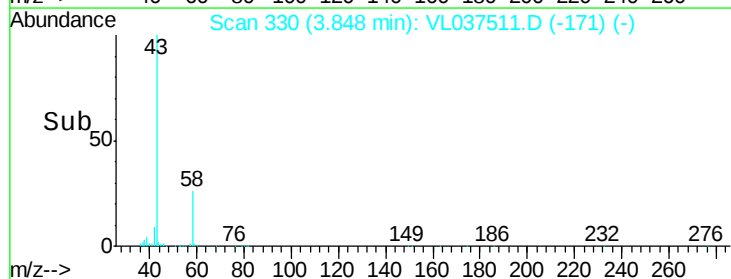
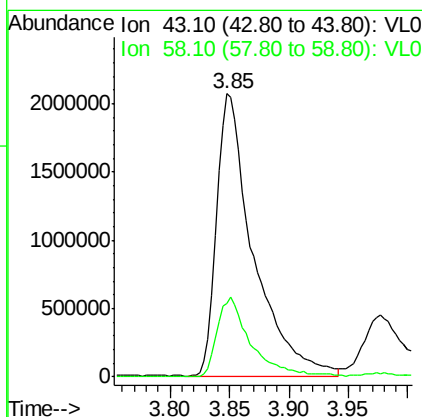
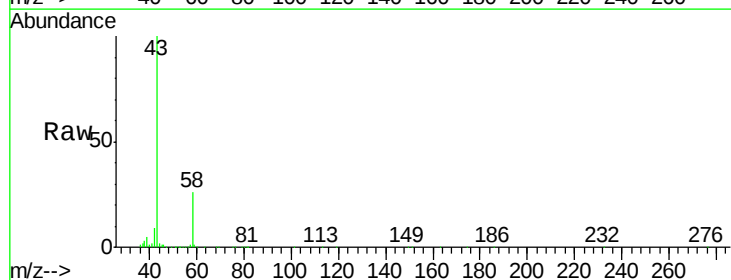
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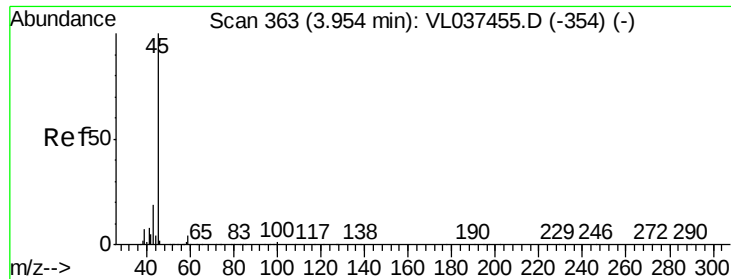
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#15
Acetone
Concen: 31.130 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Tgt Ion: 43 Resp: 4405735
Ion Ratio Lower Upper
43 100
58 26.3 24.8 37.2





#19

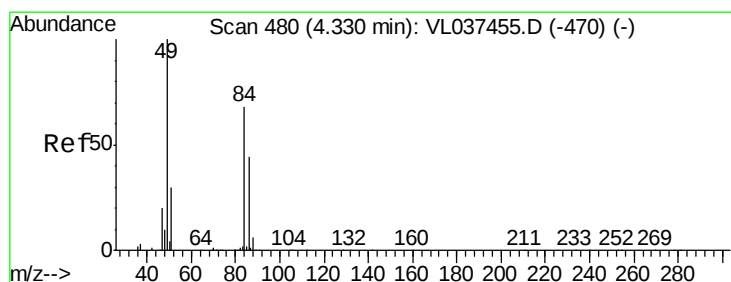
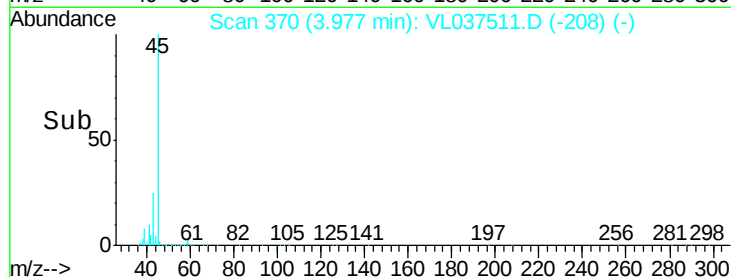
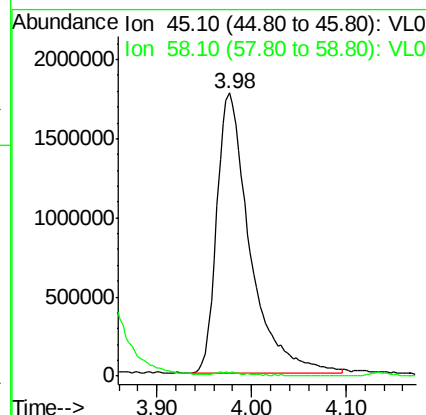
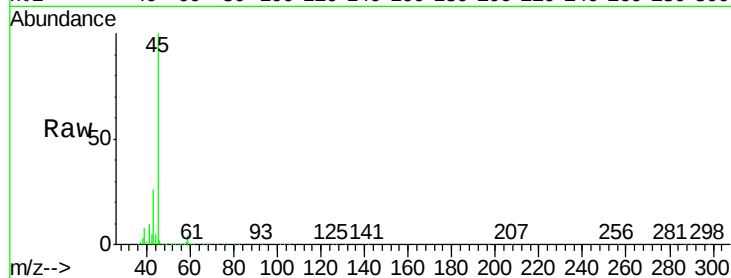
Isopropyl Alcohol
 Concen: 53.347 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.02 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-4

Tot Ion: 45 Resp: 4325400
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.2

Manual Integrations
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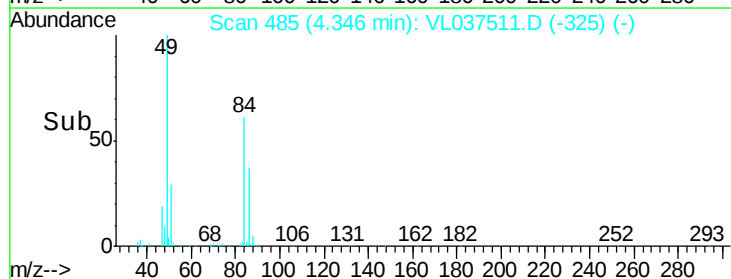
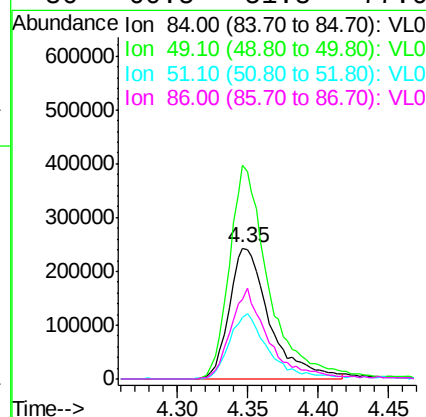
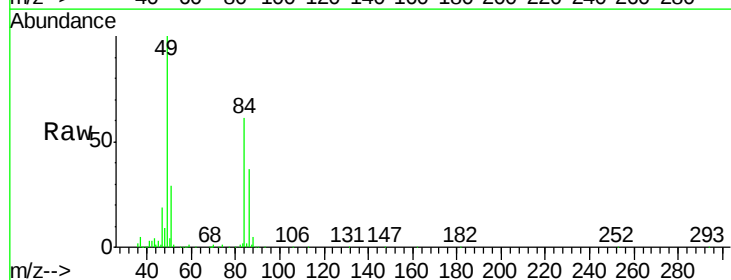
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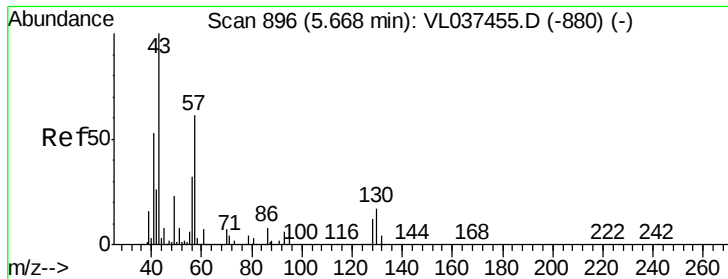


#20

Methylene Chloride
 Concen: 6.875 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. 0.02 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Tgt Ion: 84 Resp: 487137
 Ion Ratio Lower Upper
 84 100
 49 163.5 118.2 177.2
 51 47.1 36.6 55.0
 86 60.5 51.8 77.6





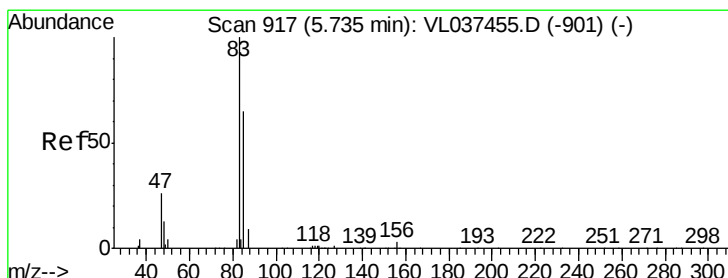
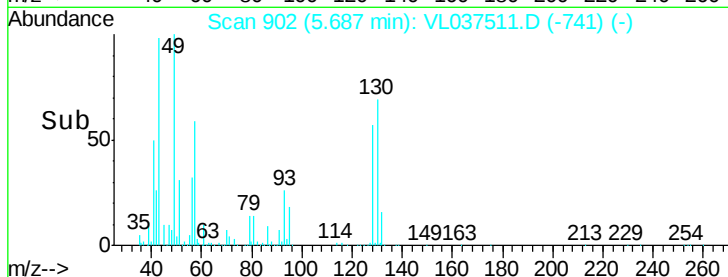
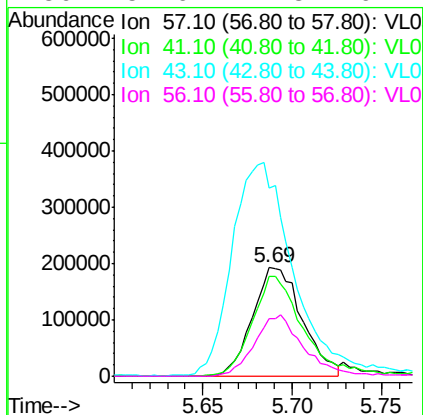
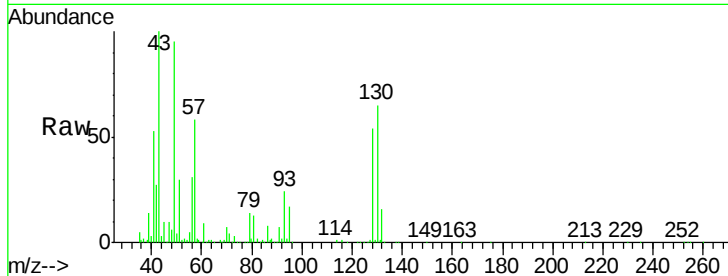
#26
Hexane
Concen: 2.134 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		374915		
41	99.5	72.3	108.5		
43	248.7	172.3	258.5		
56	57.6	42.8	64.2		

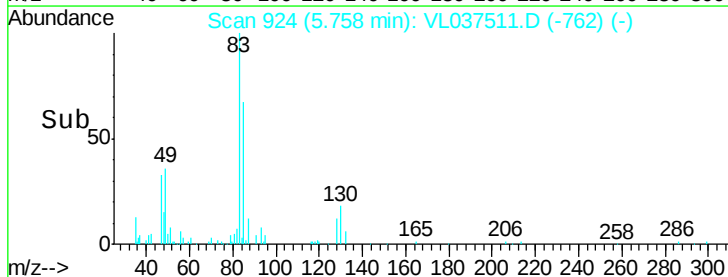
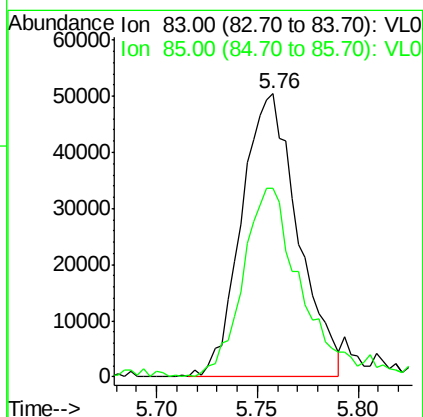
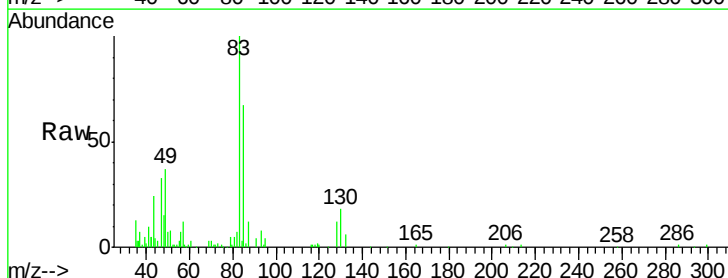
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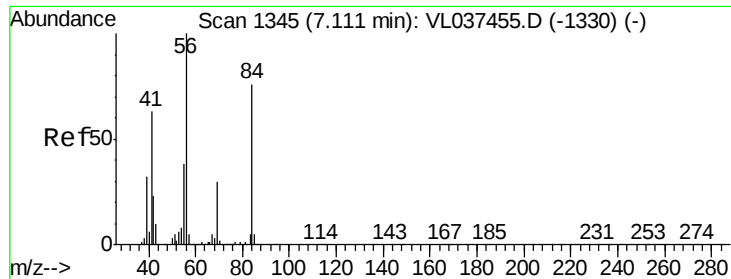
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#29
Chloroform
Concen: 0.396 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		98493		
85	66.0	52.3	78.5		





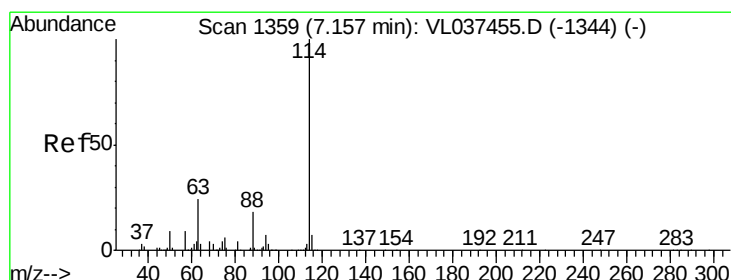
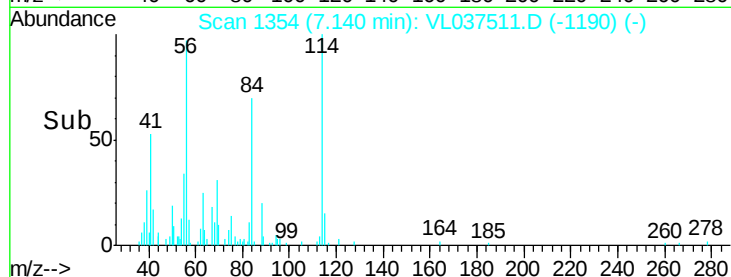
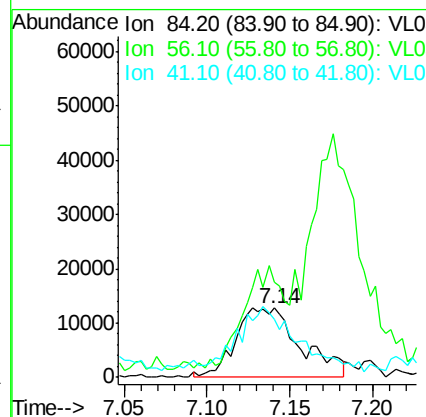
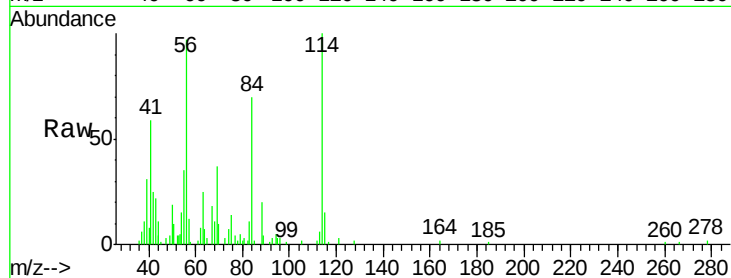
#30
Cvclohexane
Concen: 0.236 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. 0.03 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-4

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	0.0	67.0	100.6#

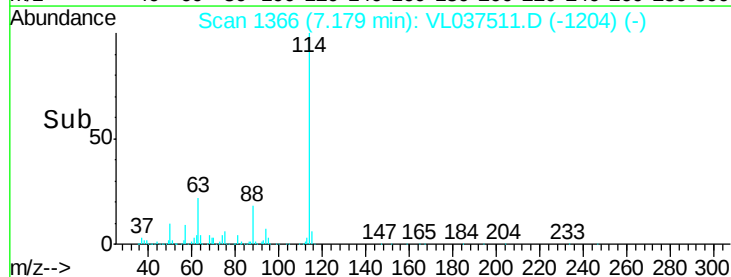
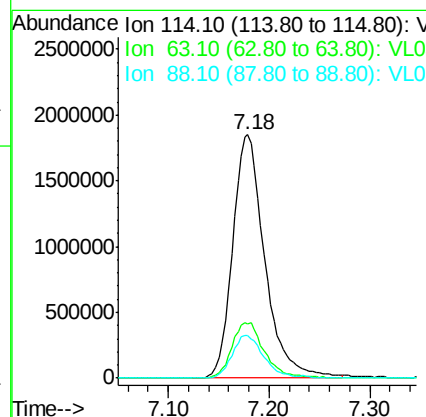
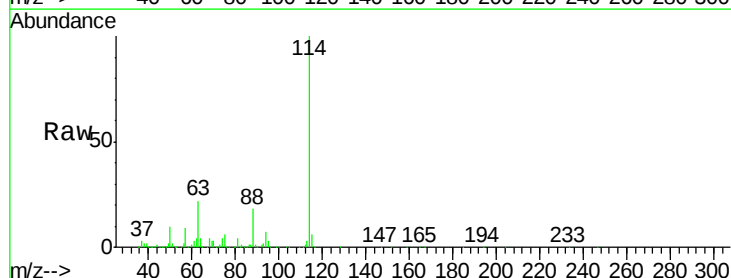
Manual Integrations
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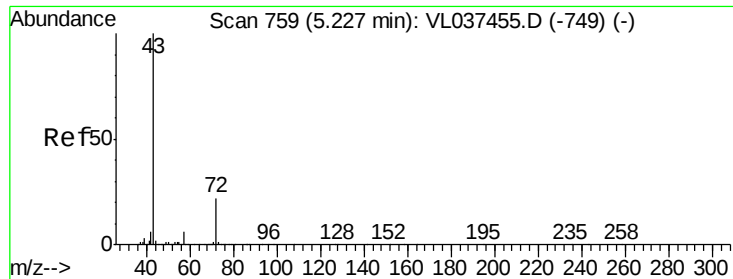
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.3	28.9
88	17.8	14.2	21.4





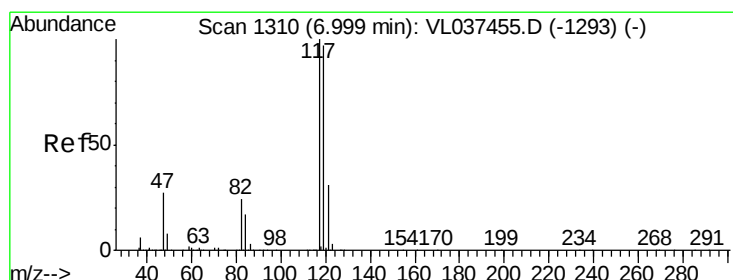
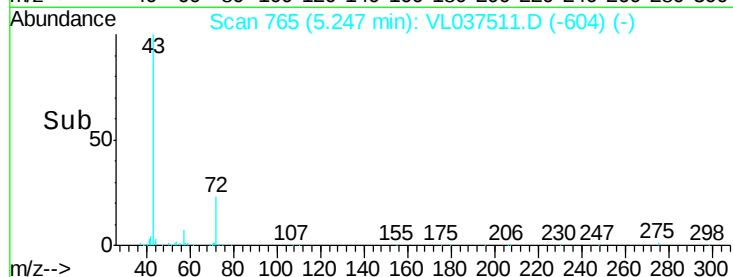
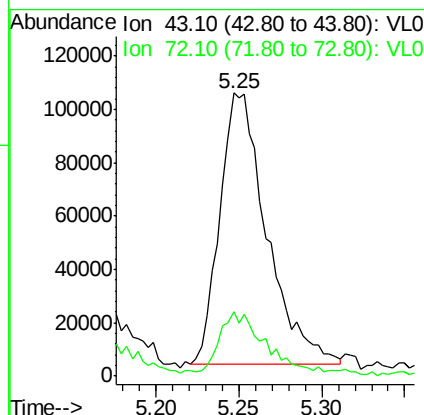
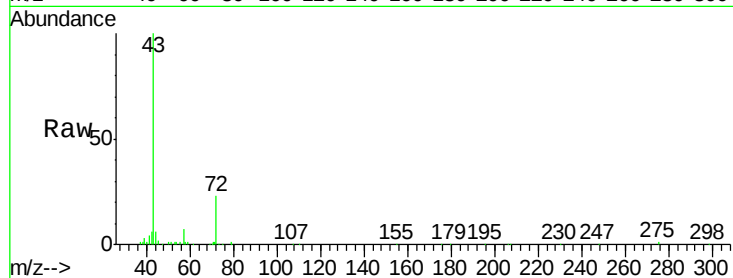
#34
2-Butanone
Concen: 1.195 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-4

Tot Ion	43	Resp	199735
Ion Ratio	Lower	Upper	
43	100		
72	26.8	17.4	26.0#

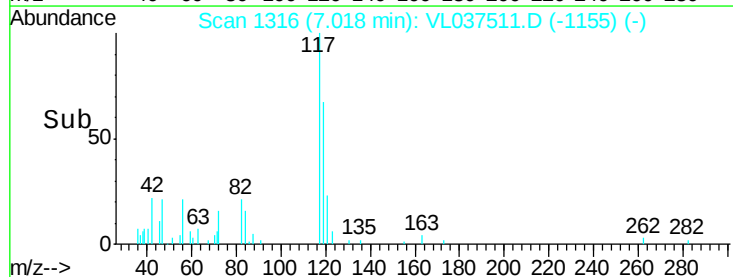
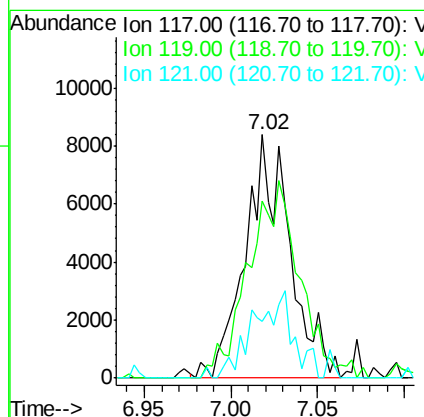
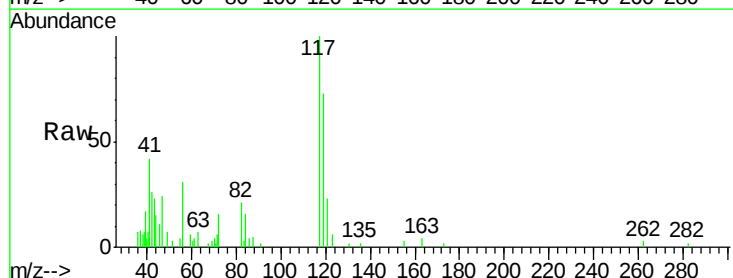
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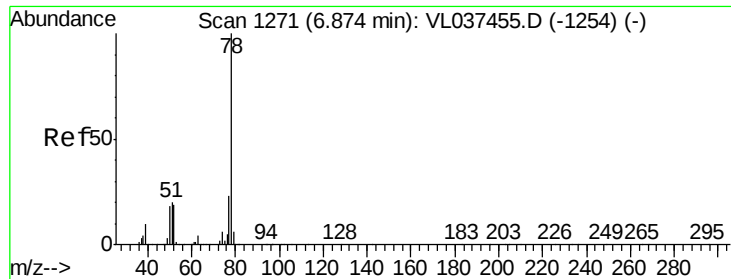
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#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Tgt Ion	117	Resp	14990
Ion Ratio	Lower	Upper	
117	100		
119	72.7	77.3	115.9#
121	23.5	25.2	37.8#





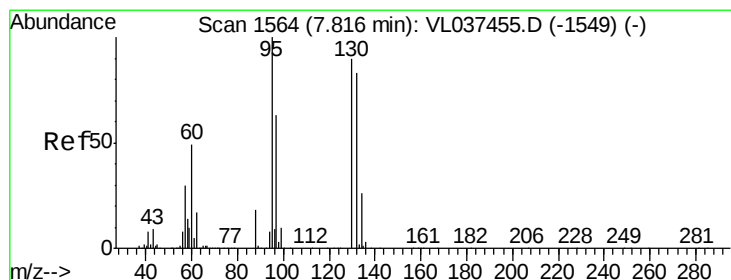
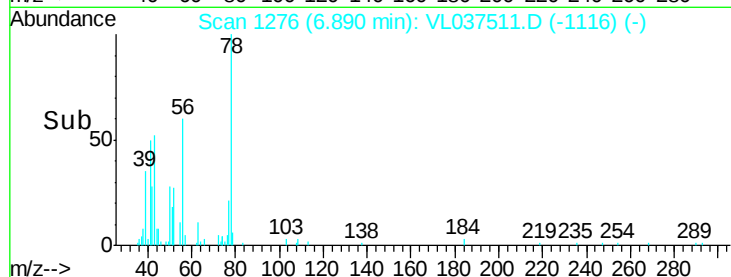
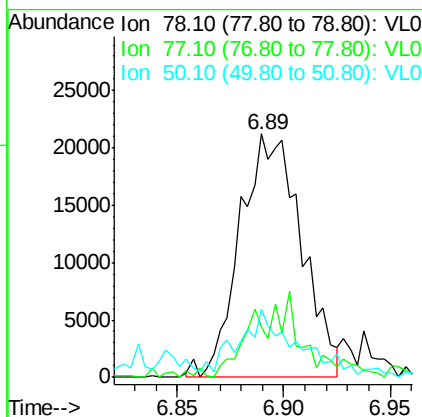
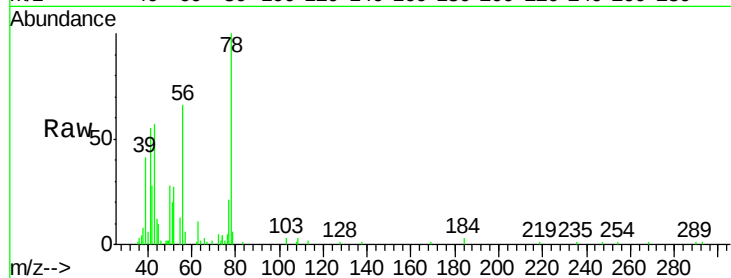
#36
Benzene
Concen: 0.124 ppbv m
RT: 6.89 min Scan# 1276
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-4

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.8	18.2	27.4
50	28.2	14.6	21.8#

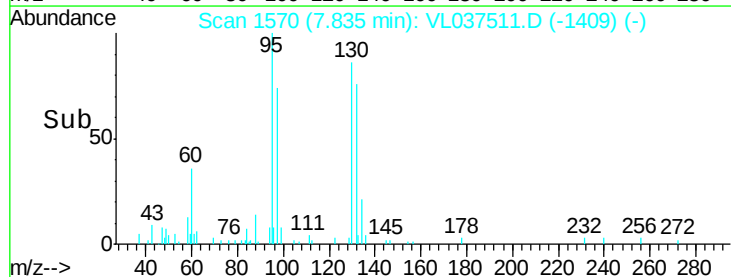
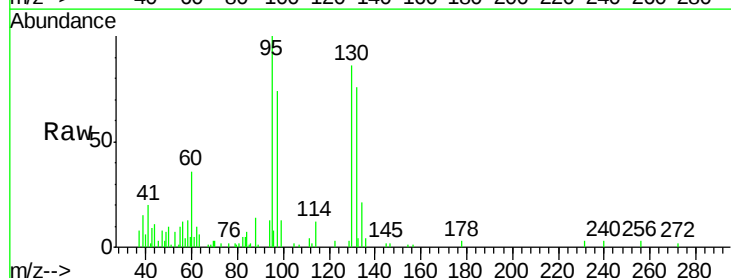
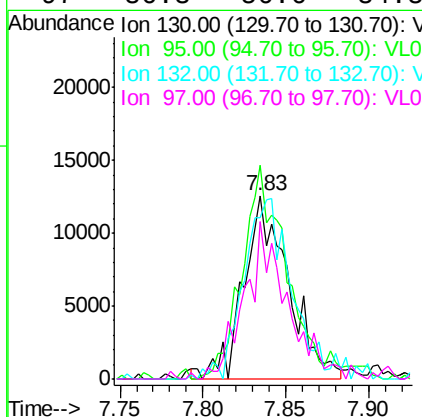
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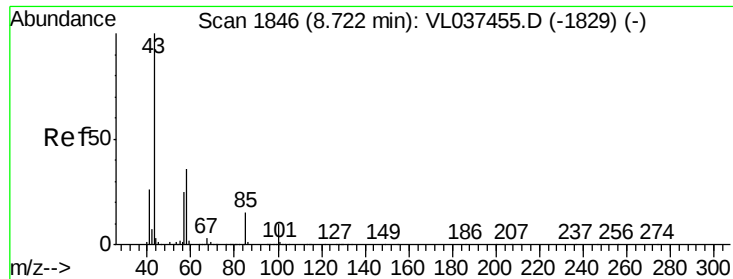
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#38
Trichloroethene
Concen: 0.168 ppbv m
RT: 7.83 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.6	89.2	133.8
132	88.2	74.0	111.0
97	86.3	56.6	84.8#





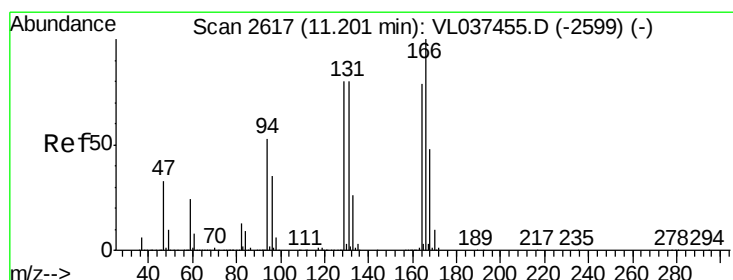
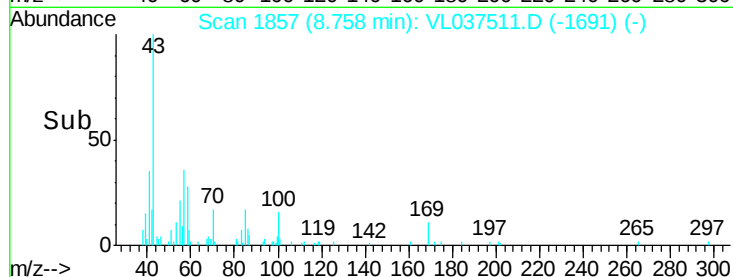
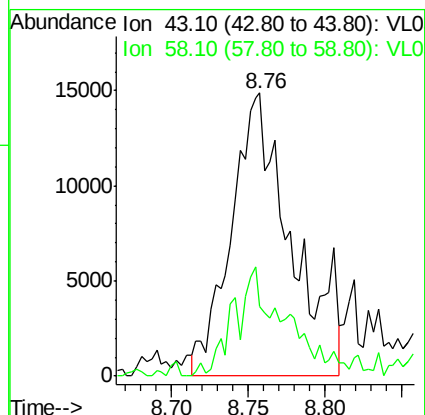
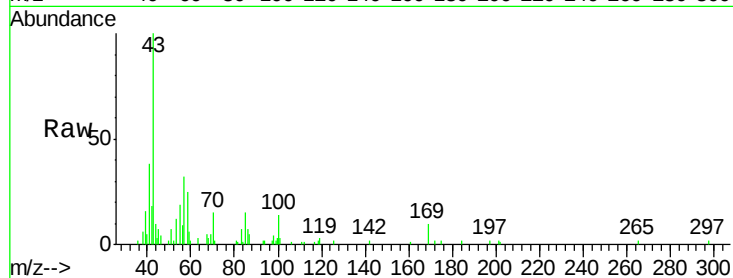
#50
4-Methyl-2-pentanone
Concen: 0.185 ppbv m
RT: 8.76 min Scan# 1857
Delta R.T. 0.04 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-4

Tot Ion	43	Resp	40411
Ion Ratio	100	Lower	Upper
58	35.4	29.9	44.9

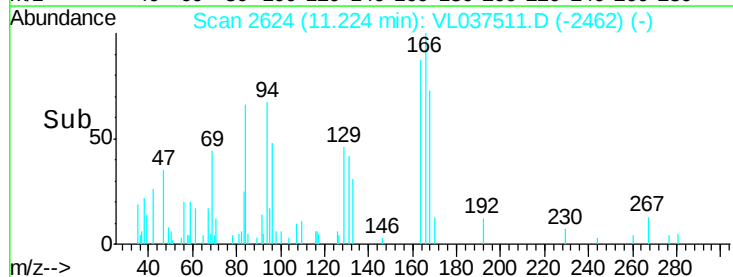
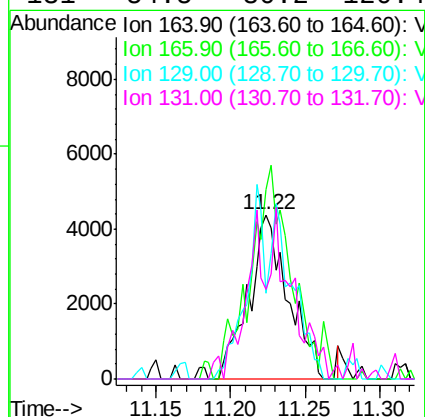
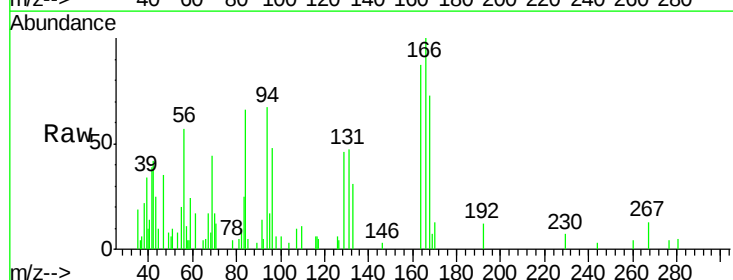
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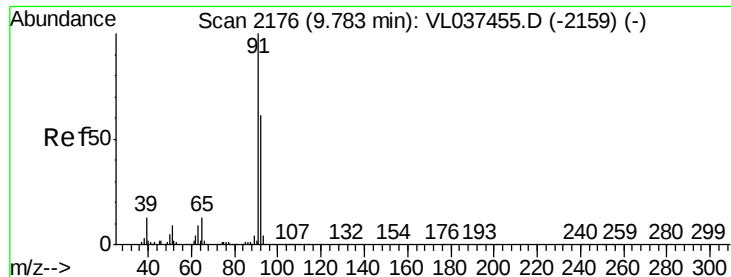
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#52
Tetrachloroethene
Concen: 0.060 ppbv m
RT: 11.22 min Scan# 2624
Delta R.T. 0.02 min
Lab File: VL037511.D
Acq: 19 Aug 2021 23:10

Tgt Ion	164	Resp	8427
Ion Ratio	100	Lower	Upper
166	115.2	100.7	151.1
129	52.6	80.9	121.3#
131	54.5	80.2	120.4#





#53

Toluene

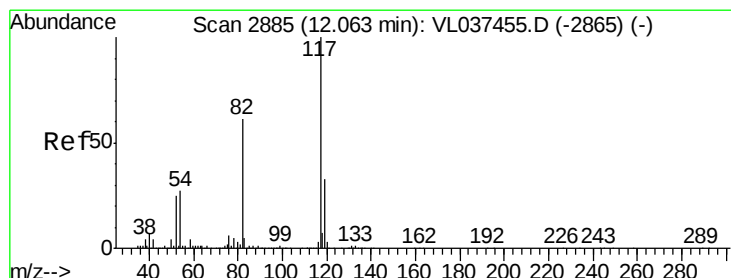
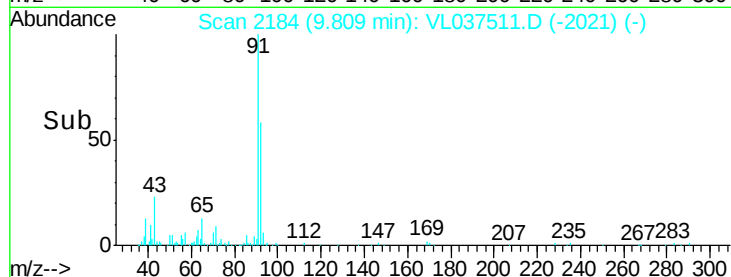
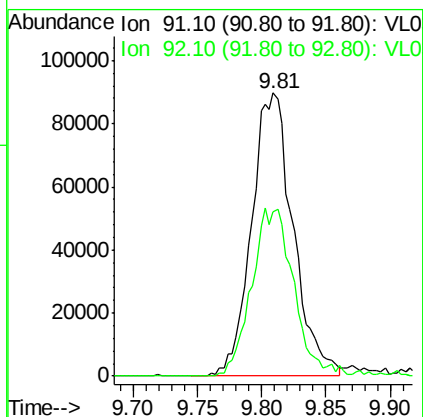
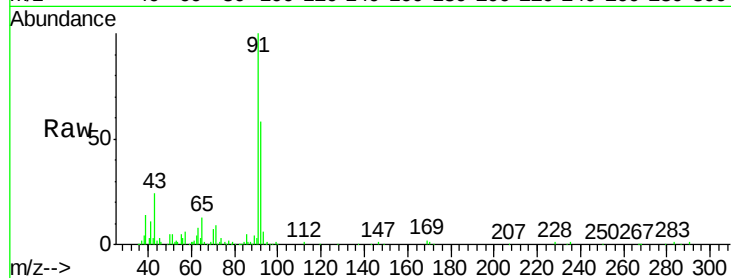
Concen: 0.511 ppbv m
 RT: 9.81 min Scan# 2184
 Delta R.T. 0.03 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-4

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

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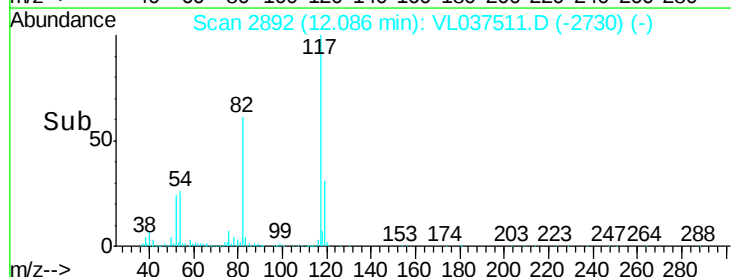
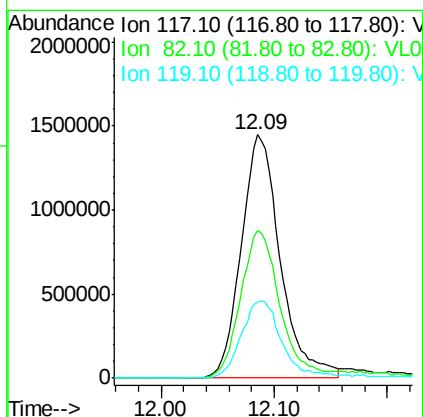
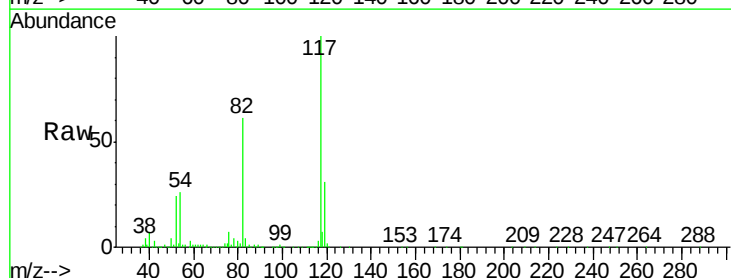


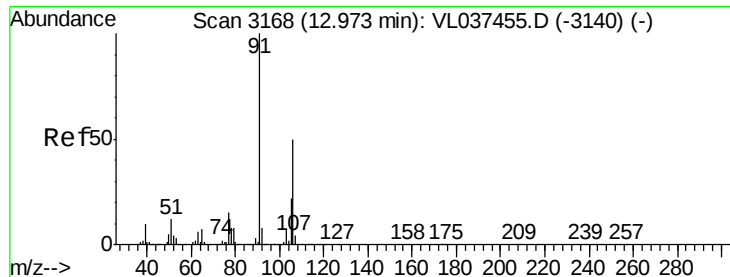
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2892
 Delta R.T. 0.02 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.4	52.9	79.3
119	34.4	24.8	37.2





#59

m/p-Xylene

Concen: 0.202 ppbv m

RT: 12.97 min Scan# 3167

Delta R.T. -0.00 min

Lab File: VL037511.D

Acq: 19 Aug 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

SR-SG-4

Tot Ion: 91 Resp: 84321

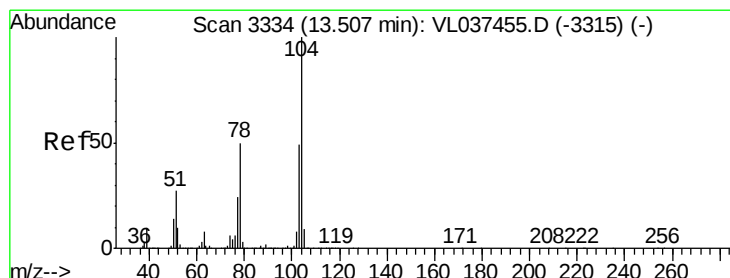
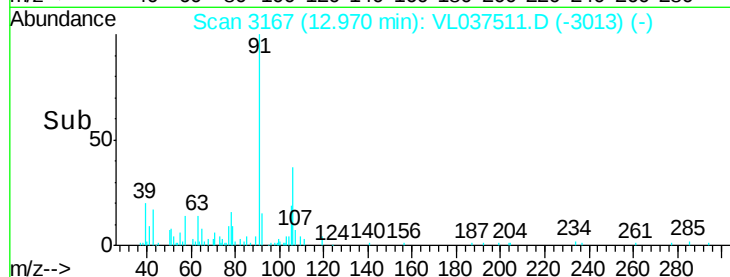
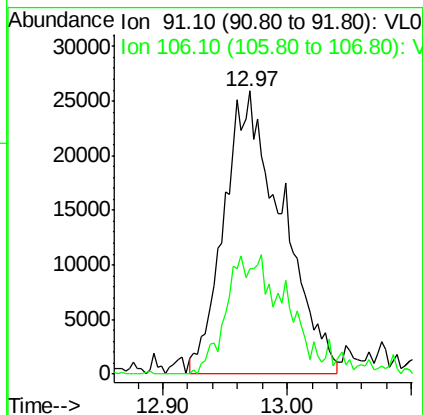
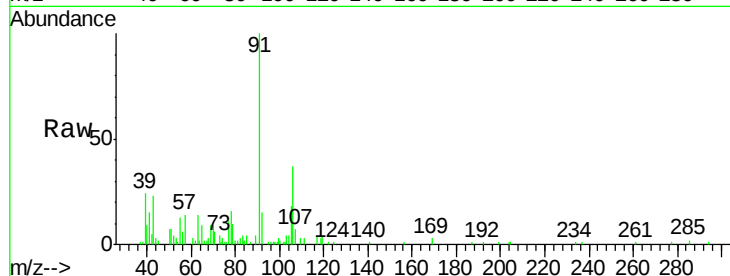
Ion Ratio Lower Upper

91 100

106 0.0 36.9 55.3#

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#61

Styrene

Concen: 0.209 ppbv m

RT: 13.53 min Scan# 3342

Delta R.T. 0.03 min

Lab File: VL037511.D

Acq: 19 Aug 2021 23:10

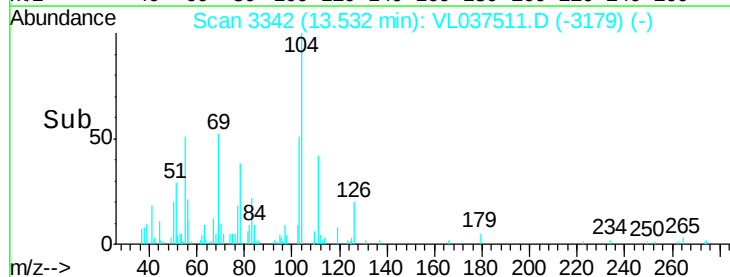
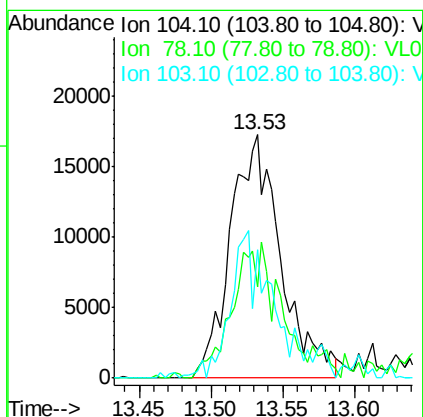
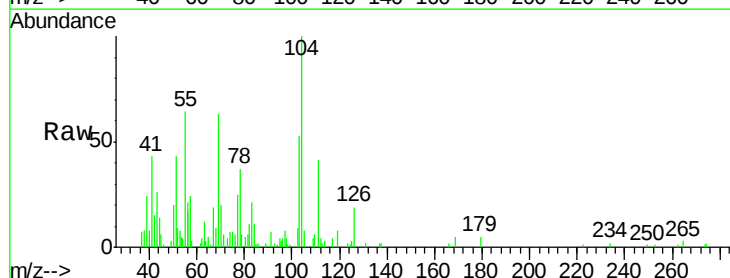
Tgt Ion: 104 Resp: 42314

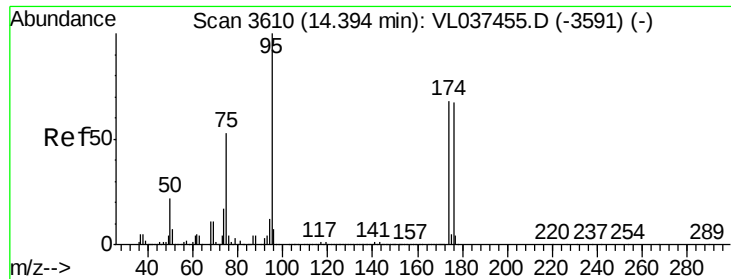
Ion Ratio Lower Upper

104 100

78 0.0 41.3 61.9#

103 57.2 39.4 59.0





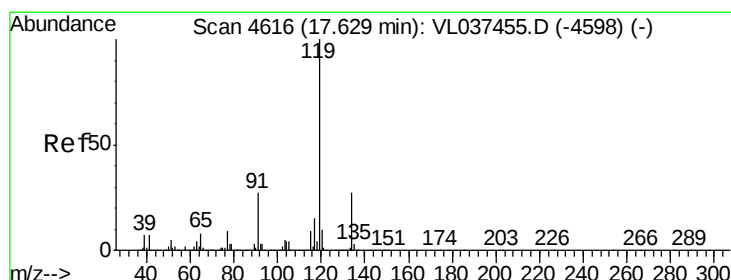
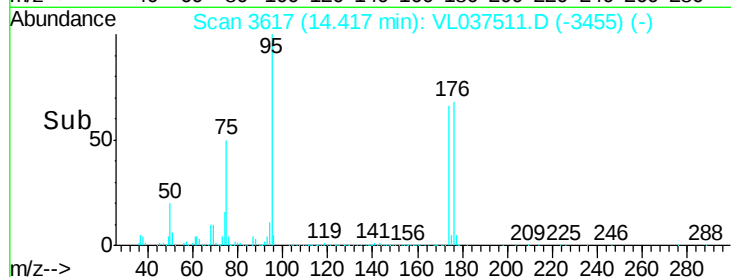
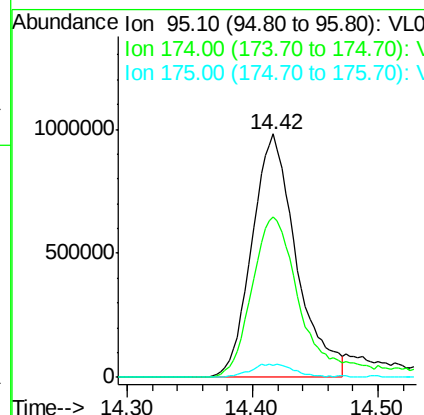
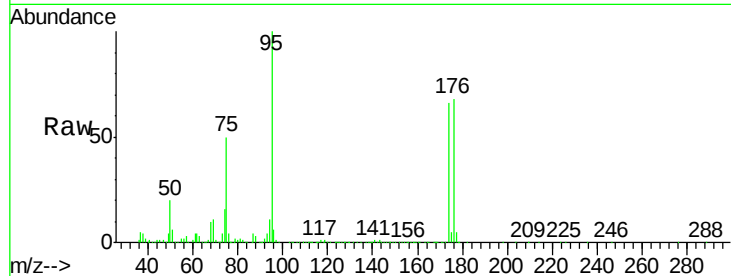
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.766 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. 0.02 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Instrument :
 MSVOA_L
 ClientSampled :
 SR-SG-4

Tot Ion: 95 Resp: 2410337
 Ion Ratio Lower Upper
 95 100
 174 78.4 59.6 89.4
 175 6.3 4.6 7.0

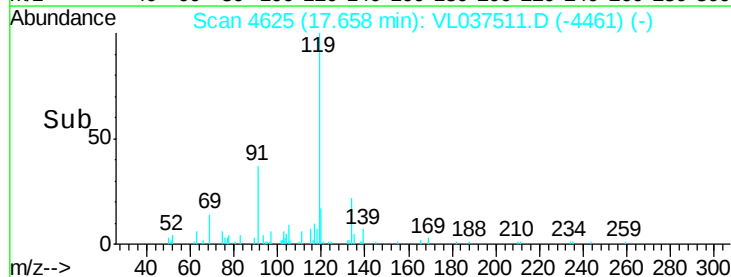
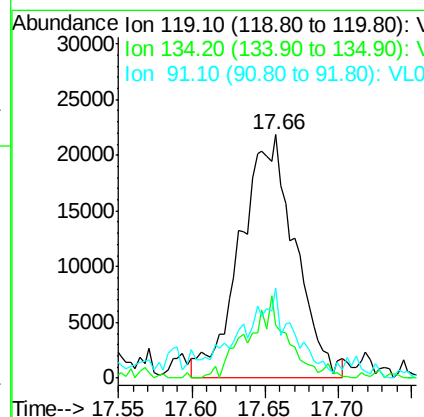
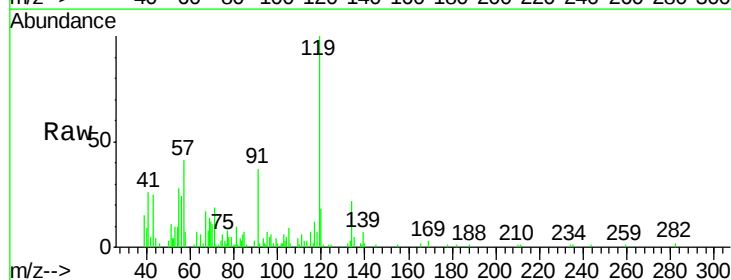
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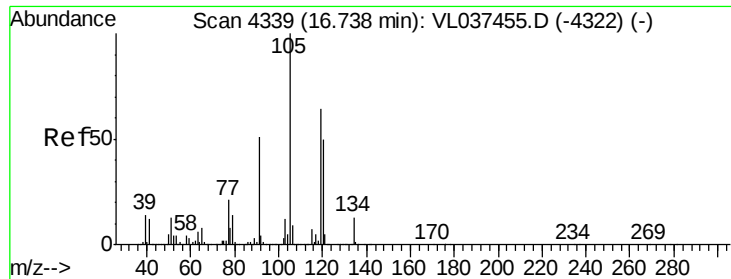
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#69
 p-Isopropyltoluene
 Concen: 0.099 ppbv m
 RT: 17.66 min Scan# 4625
 Delta R.T. 0.03 min
 Lab File: VL037511.D
 Acq: 19 Aug 2021 23:10

Tgt Ion: 119 Resp: 56778
 Ion Ratio Lower Upper
 119 100
 134 25.1 21.1 31.7
 91 40.0 22.4 33.6#





#74

1,2,4-Trimethylbenzene

Concen: 0.105 ppbv m

RT: 16.75 min Scan# 4344

Delta R.T. 0.02 min

Lab File: VL037511.D

Acq: 19 Aug 2021 23:10

Instrument :

MSVOA_L

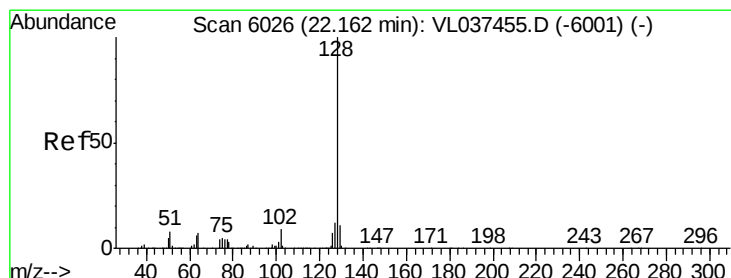
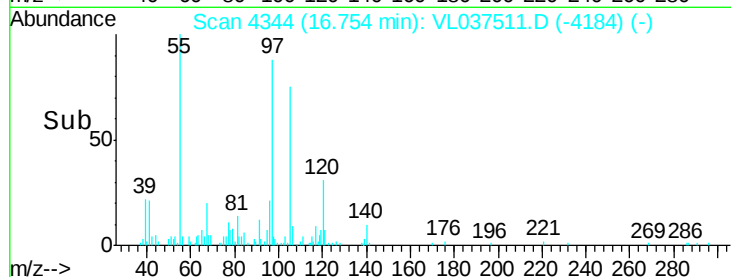
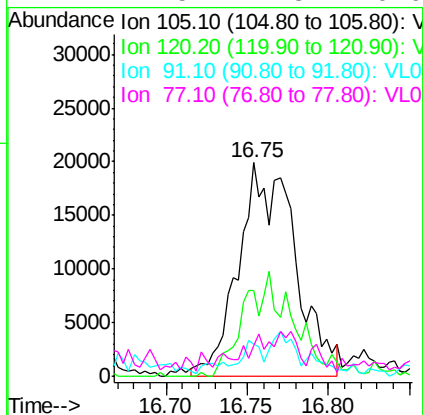
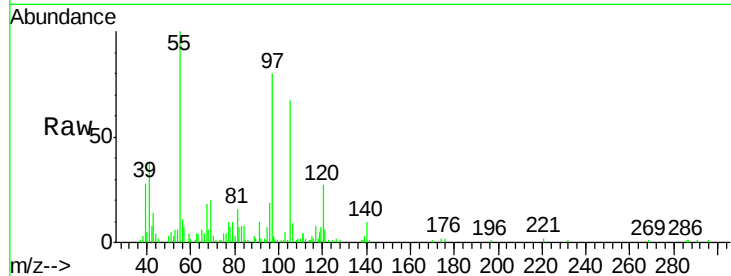
ClientSampleId :

SR-SG-4

Tot Ion:	105	Resp:	48174
Ion Ratio	Lower	Upper	
105	100		
120	40.4	40.4	60.6#
91	15.3	44.6	67.0#
77	14.5	17.8	26.6#

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#79

Naphthalene

Concen: 0.151 ppbv m

RT: 22.21 min Scan# 6040

Delta R.T. 0.04 min

Lab File: VL037511.D

Acq: 19 Aug 2021 23:10

Tgt Ion:	128	Resp:	46345
Ion Ratio	Lower	Upper	
128	100		
127	11.2	9.4	14.2
129	17.8	8.8	13.2#

