

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037694.D
 Acq On : 27 Sep 2021 23:47
 Operator : SY/AP
 Sample : M3948-06 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:35 AM

Quant Time: Sep 28 21:04:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1551127	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	4435864	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3896707	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2858580	10.15	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	3.27	62	14769m	0.145	ppbv	
9) Propene	3.02	41	218163	2.114	ppbv #	82
10) Heptane	8.13	43	100151m	0.416	ppbv	
13) Ethanol	3.61	45	87233m	8.641	ppbv	
15) Acetone	3.85	43	8133715	50.470	ppbv	100
17) tert-Butyl alcohol	4.30	59	63884m	0.467	ppbv	
20) Methylene Chloride	4.36	84	32941m	0.428	ppbv	
26) Hexane	5.69	57	336998	1.818	ppbv #	46
29) Chloroform	5.76	83	33933m	0.125	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	9080	0.036	ppbv #	80
34) 2-Butanone	5.25	43	725748	4.026	ppbv	94
36) Benzene	6.90	78	37448m	0.101	ppbv	
38) Trichloroethene	7.84	130	430752	2.788	ppbv	98
52) Tetrachloroethene	11.23	164	2091551	14.729	ppbv	97
53) Toluene	9.81	91	178529	0.434	ppbv	96
58) Ethyl Benzene	12.72	91	122959m	0.238	ppbv	
59) m/p-Xylene	12.98	91	322163m	0.715	ppbv	
60) o-Xylene	13.69	91	178980m	0.417	ppbv	
72) 4-Ethyltoluene	15.84	105	76339	0.155	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.00	105	99915m	0.218	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	354405	0.733	ppbv #	74

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

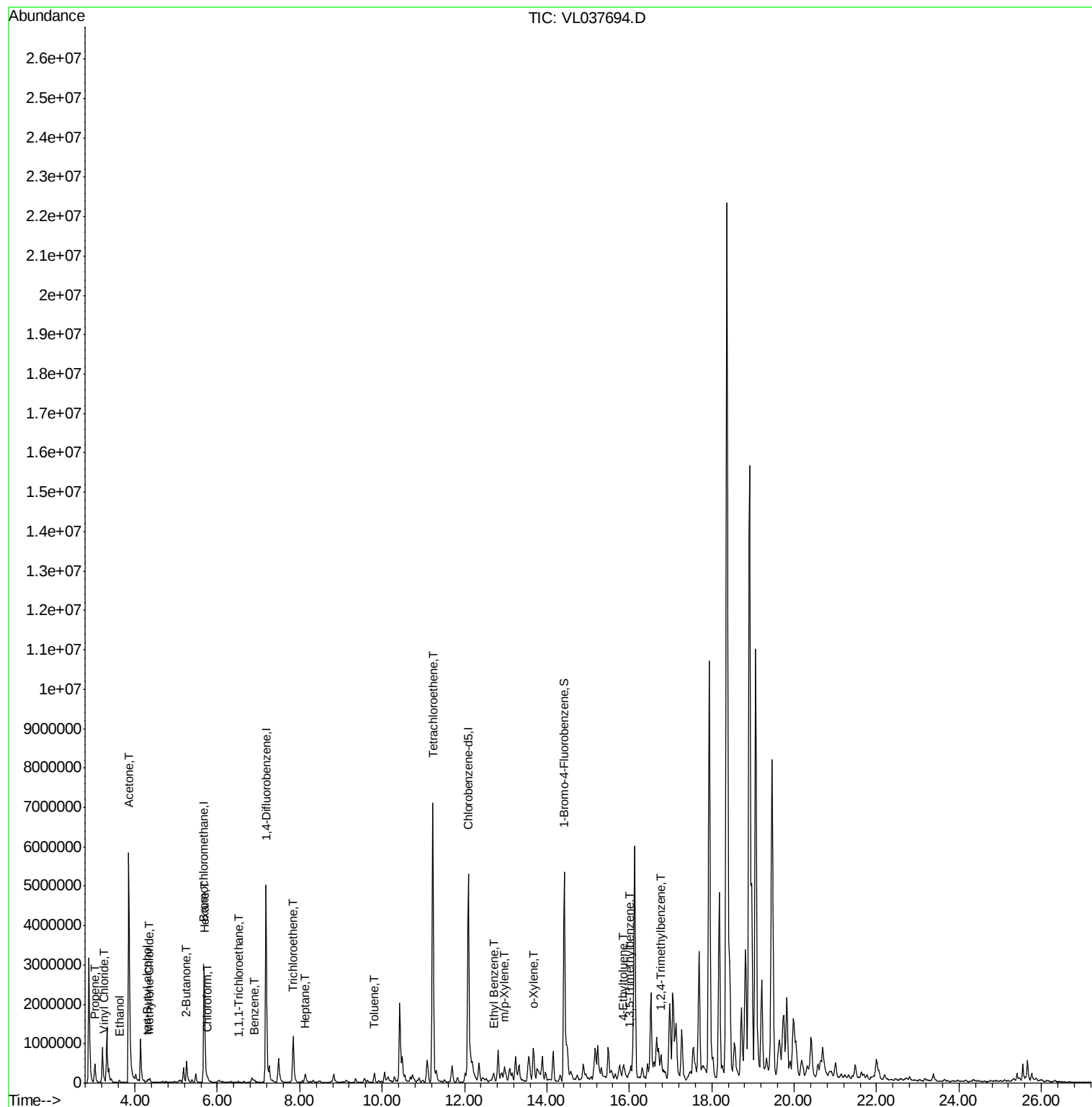
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
Data File : VL037694.D
Acq On : 27 Sep 2021 23:47
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ALS Vial : 9 Sample Multiplier: 1

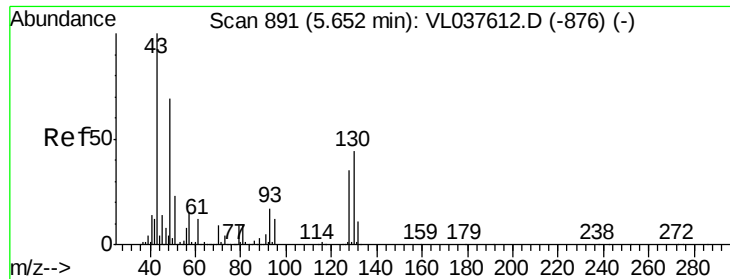
Instrument :
MSVOA_L
ClientSampleId :
SV6

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Quant Time: Sep 28 21:04:26 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037694.D

Acq: 27 Sep 2021 23:47

Instrument :

MSVOA_L

ClientSampled :

SV6

Tgt Ion: 49 Resp: 1551127

Ion Ratio Lower Upper

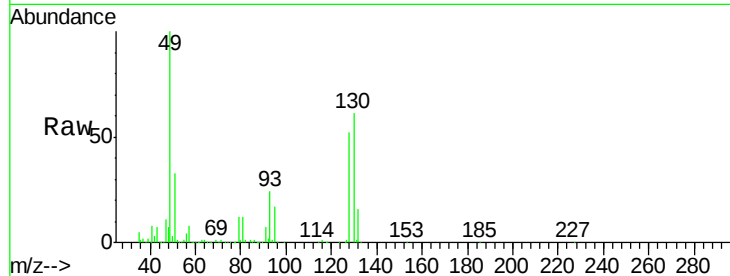
49 100

128 52.0 27.9 83.6

130 66.6 33.9 101.7

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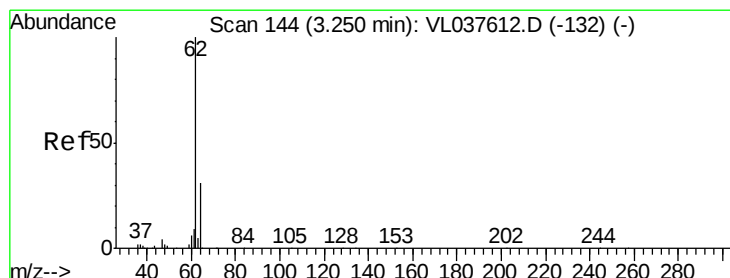
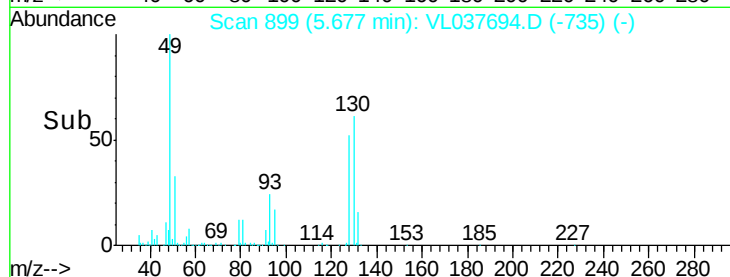
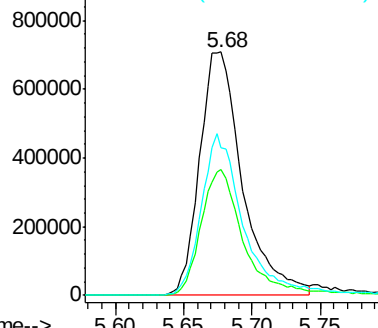
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.145 ppbv m

RT: 3.27 min Scan# 149

Delta R.T. 0.02 min

Lab File: VL037694.D

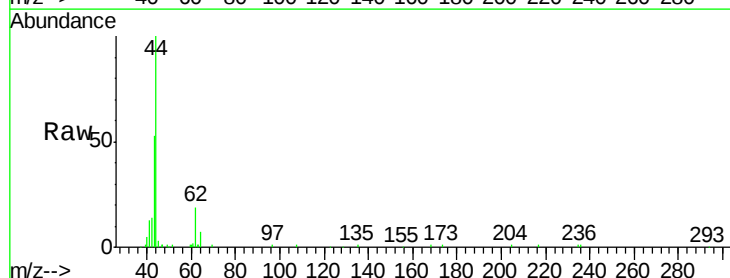
Acq: 27 Sep 2021 23:47

Tgt Ion: 62 Resp: 14769

Ion Ratio Lower Upper

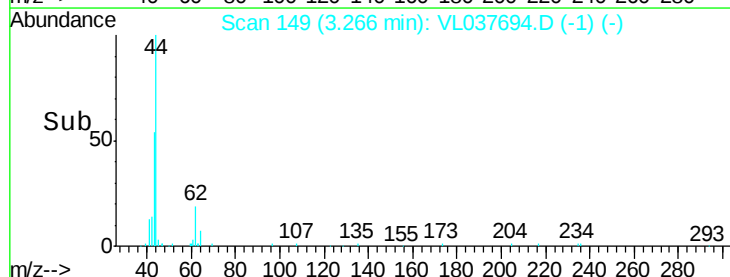
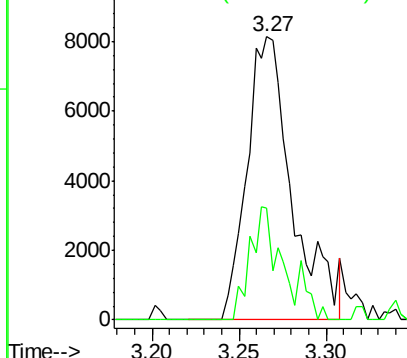
62 100

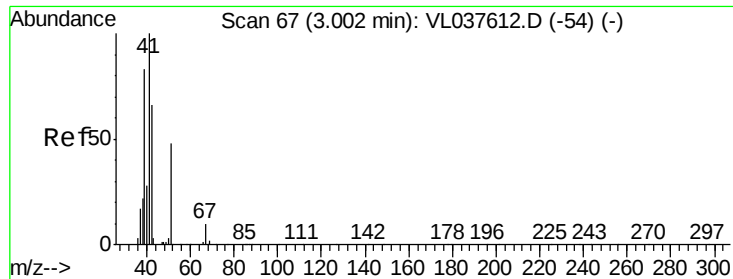
64 39.4 24.9 37.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





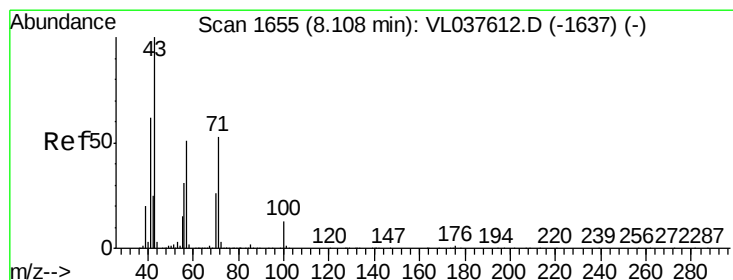
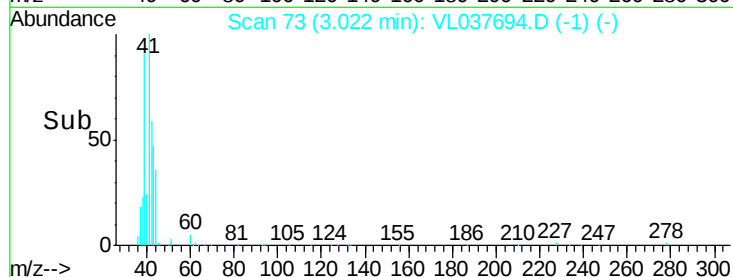
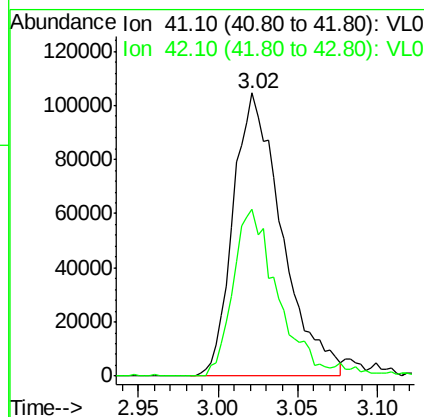
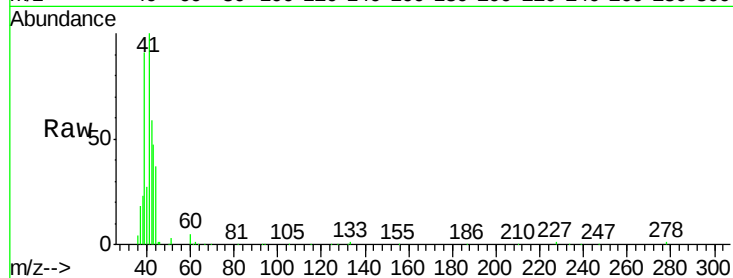
#9
 Propene
 Concen: 2.114 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. 0.02 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

Tgt Ion: 41 Resp: 218163
 Ion Ratio Lower Upper
 41 100
 42 56.2 57.2 85.8#

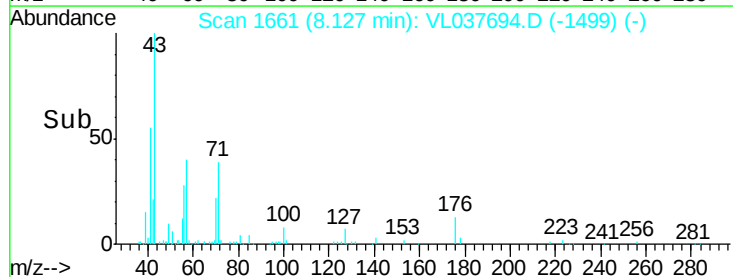
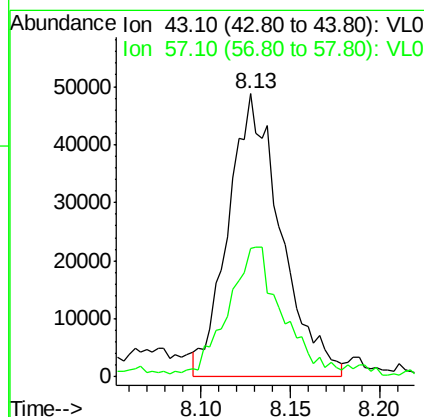
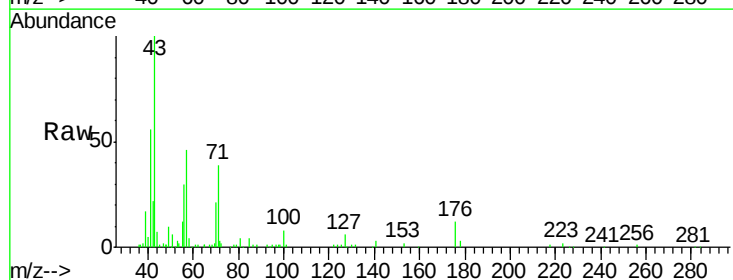
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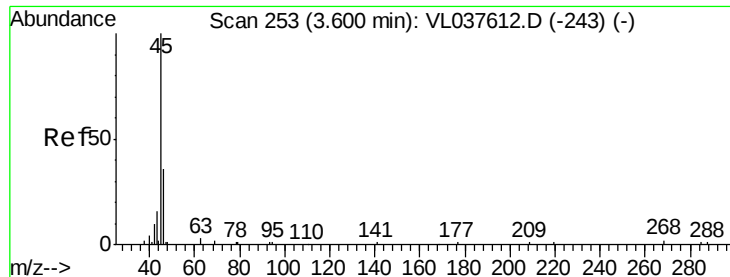
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#10
 Heptane
 Concen: 0.416 ppbv m
 RT: 8.13 min Scan# 1661
 Delta R.T. 0.02 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Tgt Ion: 43 Resp: 100151
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.1 60.1#





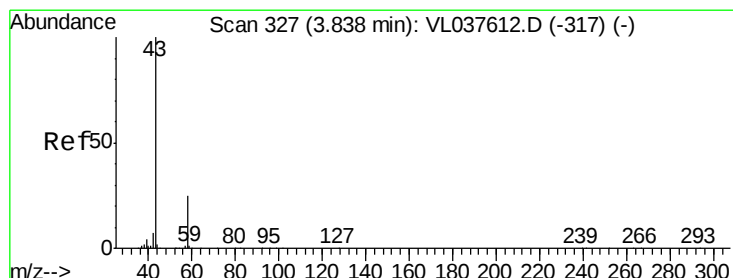
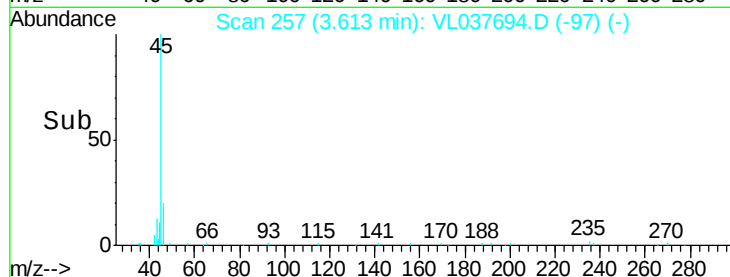
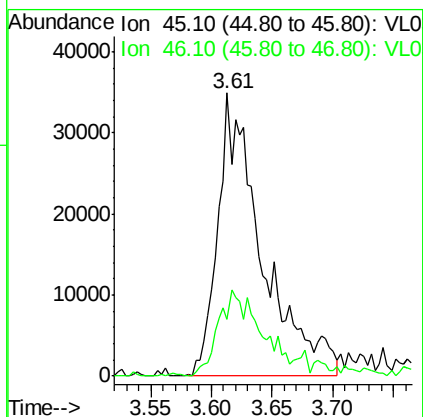
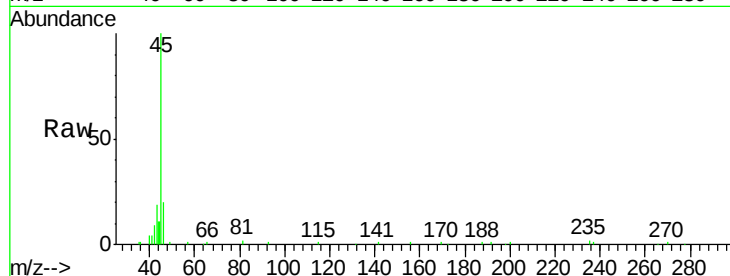
#13
Ethanol
Concen: 8.641 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL037694.D
Acq: 27 Sep 2021 23:47

Instrument :
MSVOA_L
ClientSampled :
SV6

Tgt Ion: 45 Resp: 87233
Ion Ratio Lower Upper
45 100
46 35.8 17.2 68.8

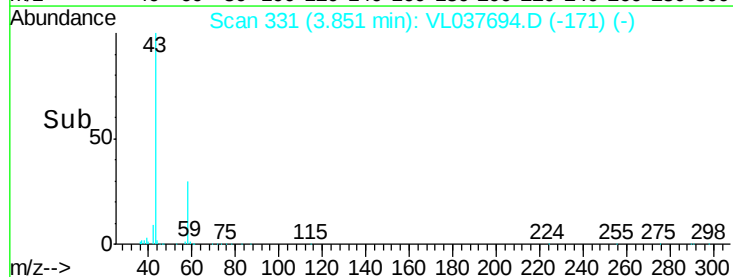
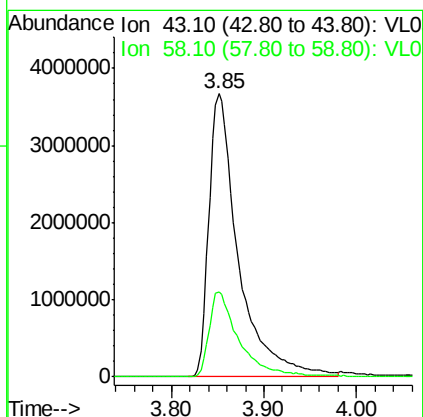
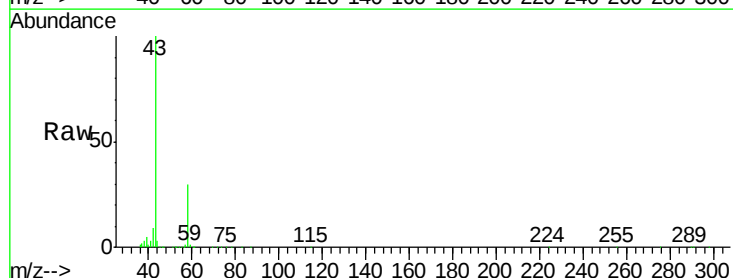
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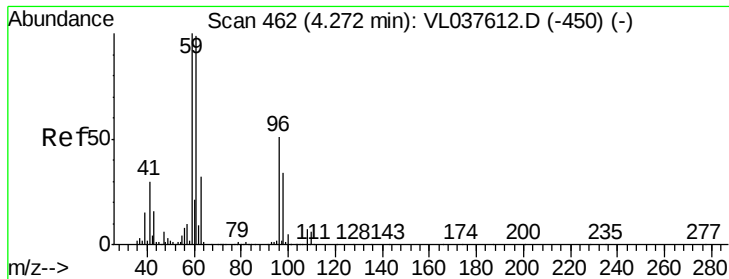
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#15
Acetone
Concen: 50.470 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037694.D
Acq: 27 Sep 2021 23:47

Tgt Ion: 43 Resp: 8133715
Ion Ratio Lower Upper
43 100
58 31.2 24.9 37.3





#17

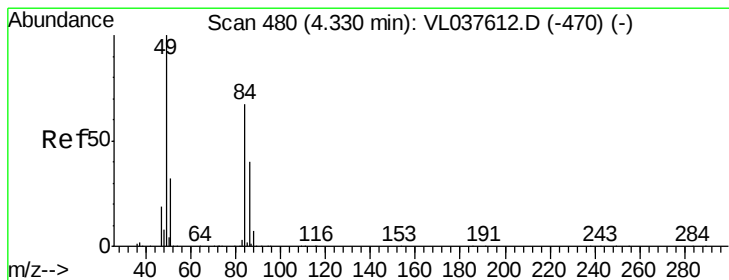
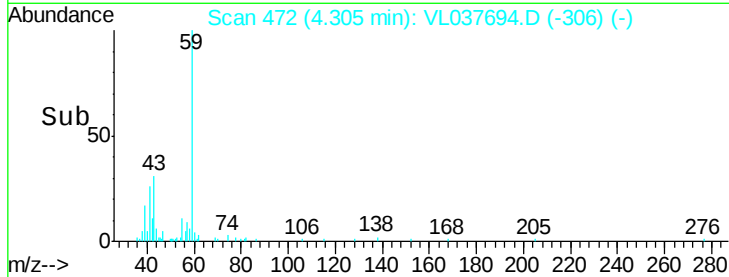
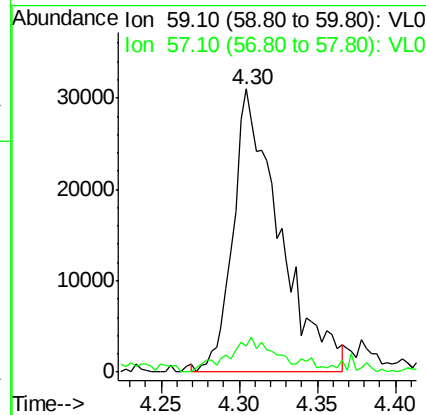
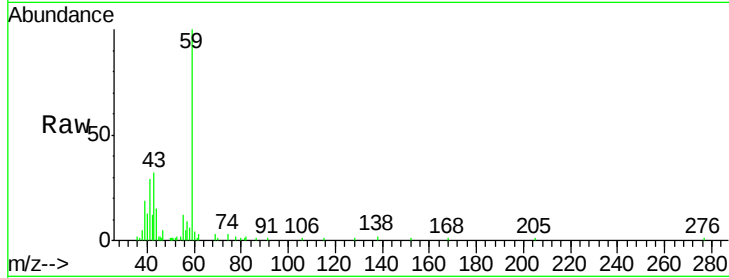
tert-Butyl alcohol
 Concen: 0.467 ppbv m
 RT: 4.30 min Scan# 472
 Delta R.T. 0.03 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

Tgt Ion: 59 Resp: 63884
 Ion Ratio Lower Upper
 59 100
 57 15.9 8.4 12.6#

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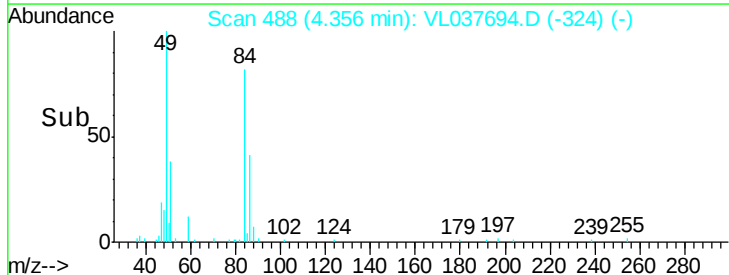
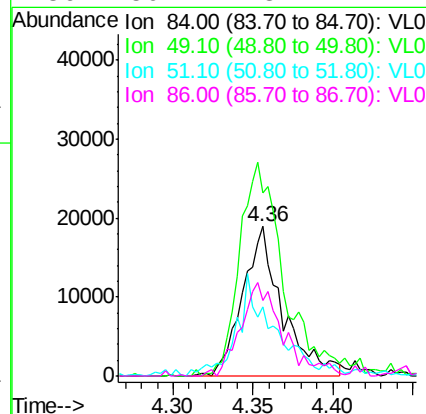
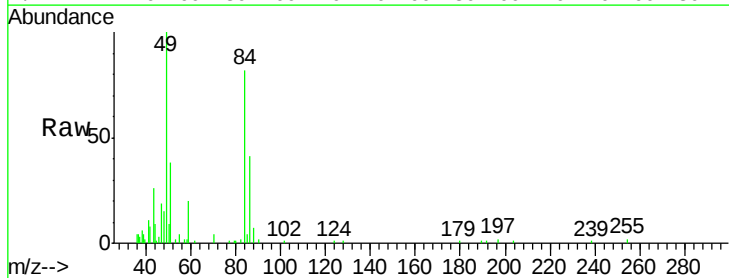
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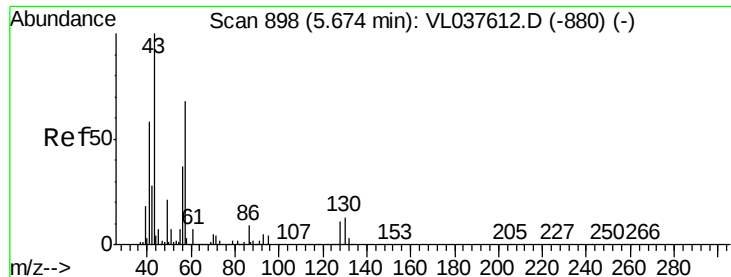


#20

Methylene Chloride
 Concen: 0.428 ppbv m
 RT: 4.36 min Scan# 488
 Delta R.T. 0.03 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Tgt Ion: 84 Resp: 32941
 Ion Ratio Lower Upper
 84 100
 49 122.7 120.0 180.0
 51 46.1 38.0 57.0
 86 50.2 48.2 72.2





#26

Hexane

Concen: 1.818 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.02 min

Lab File: VL037694.D

Acq: 27 Sep 2021 23:47

Instrument :

MSVOA_L

ClientSampled :

SV6

Tgt Ion: 57 Resp: 336998

Ion Ratio Lower Upper

57 100

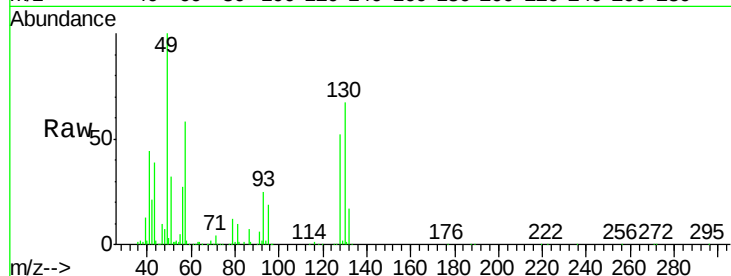
41 90.9 70.9 106.3

43 72.8 170.4 255.6#

56 54.1 42.6 64.0

Manual Integrations
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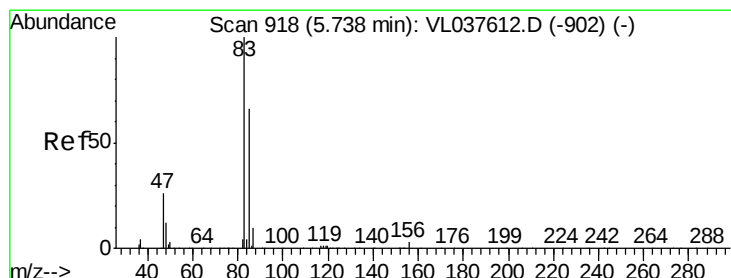
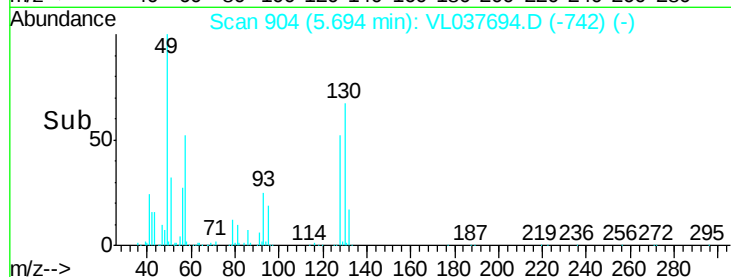
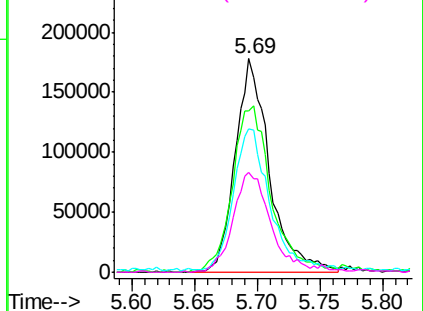


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.125 ppbv m

RT: 5.76 min Scan# 926

Delta R.T. 0.03 min

Lab File: VL037694.D

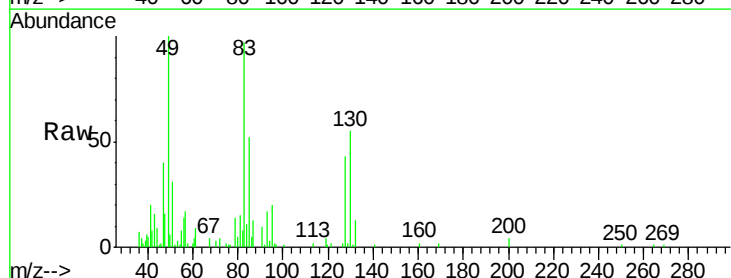
Acq: 27 Sep 2021 23:47

Tgt Ion: 83 Resp: 33933

Ion Ratio Lower Upper

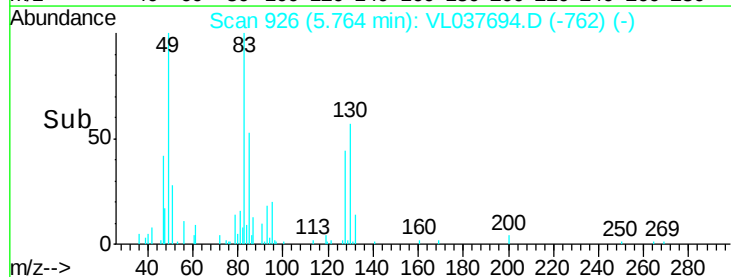
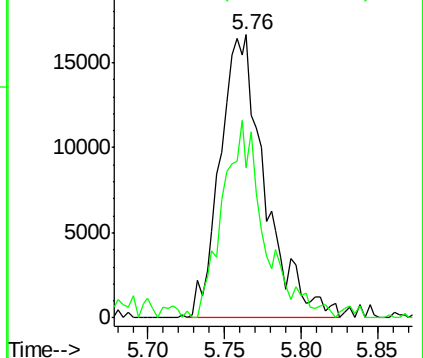
83 100

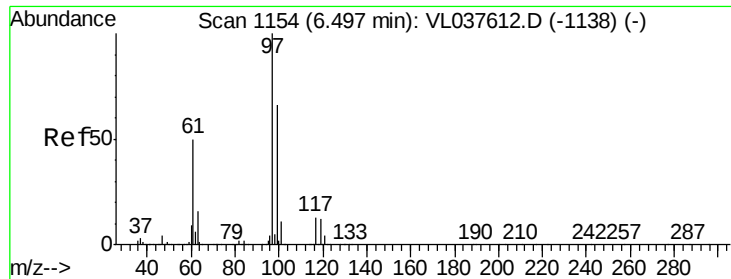
85 52.9 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





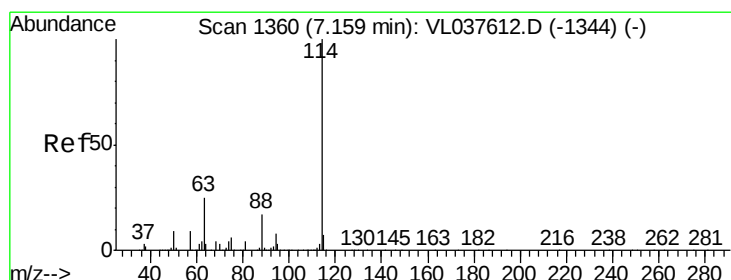
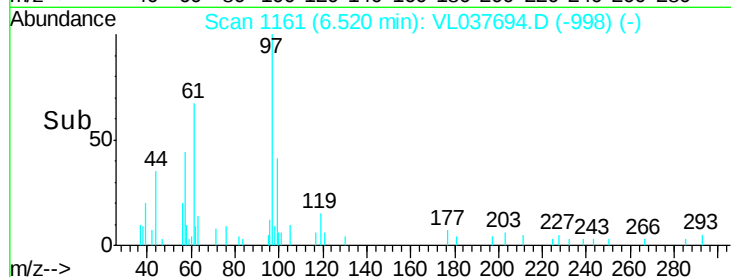
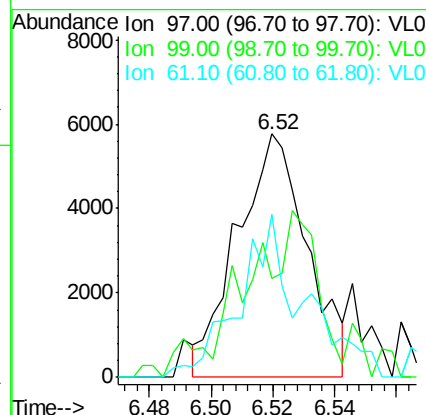
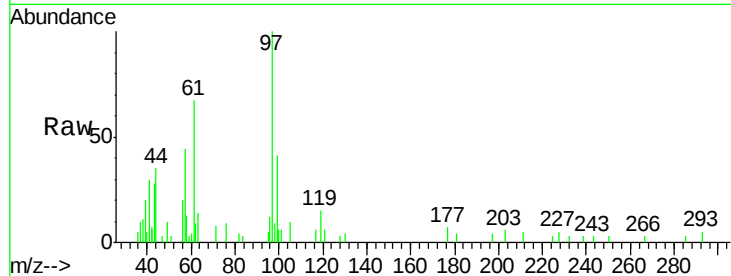
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 1,1,1-Trichloroethane
 Concen: 0.036 ppbv
 RT: 6.52 min Scan# 1161
 Delta R.T. 0.02 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Instrument :
 MSVOA_L
 ClientSampled :
 SV6

Tgt Ion	Ratio	Lower	Upper
97	100		
99	79.6	52.3	78.5#
61	64.7	39.5	59.3#

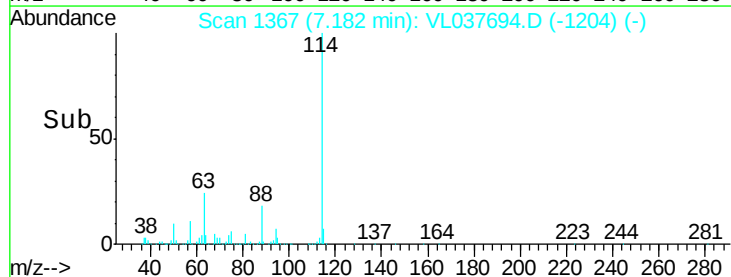
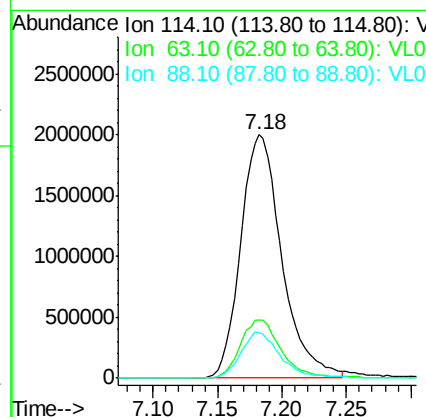
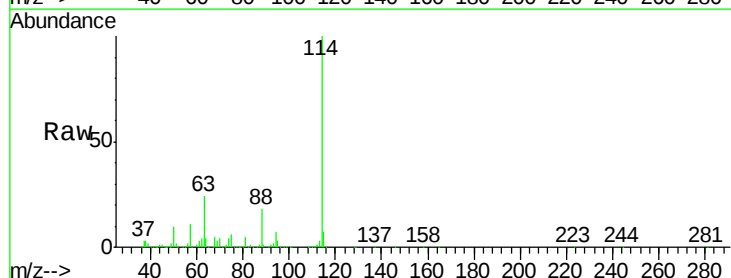
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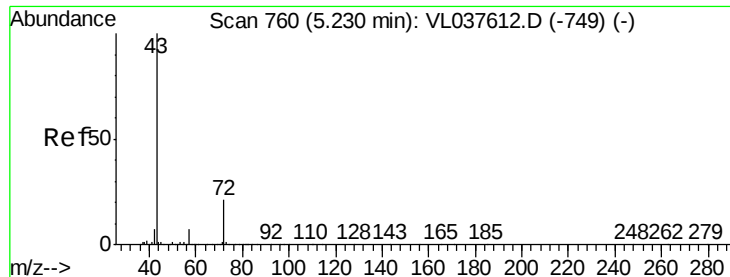
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.02 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	18.4	14.2	21.4





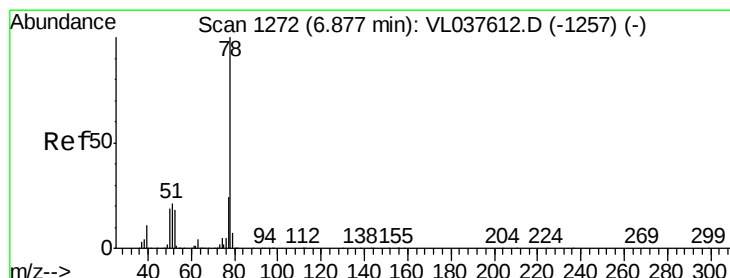
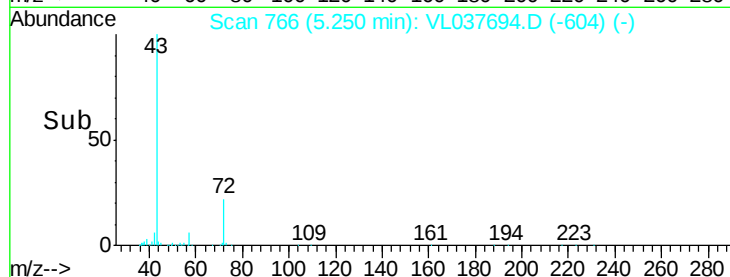
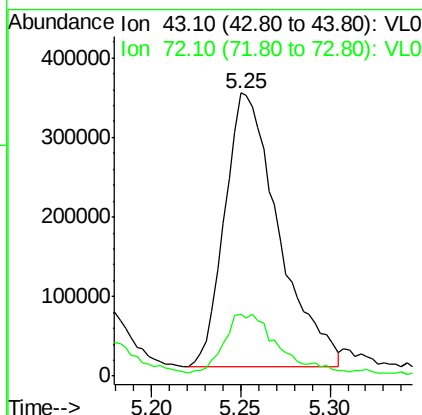
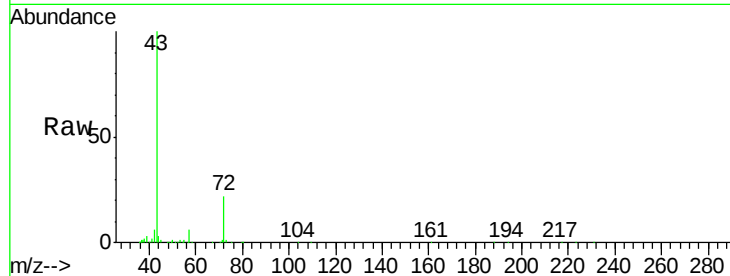
#34
2-Butanone
Concen: 4.026 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL037694.D
Acq: 27 Sep 2021 23:47

Instrument :
MSVOA_L
ClientSampleId :
SV6

Tgt Ion: 43 Resp: 725748
Ion Ratio Lower Upper
43 100
72 25.9 18.4 27.6

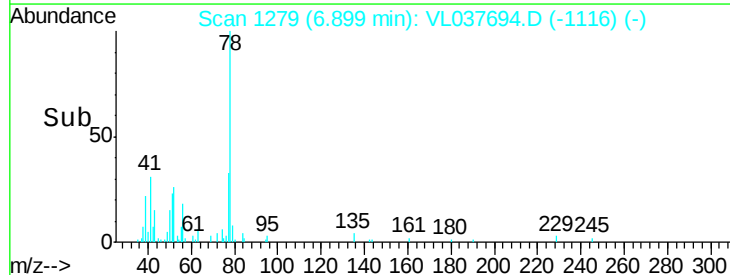
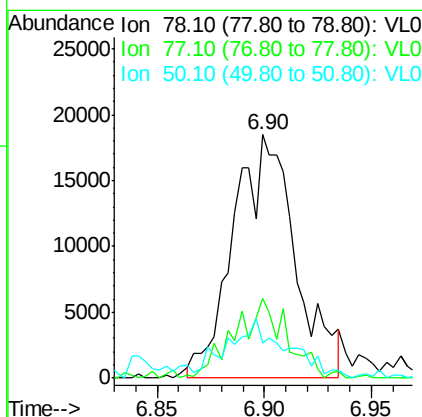
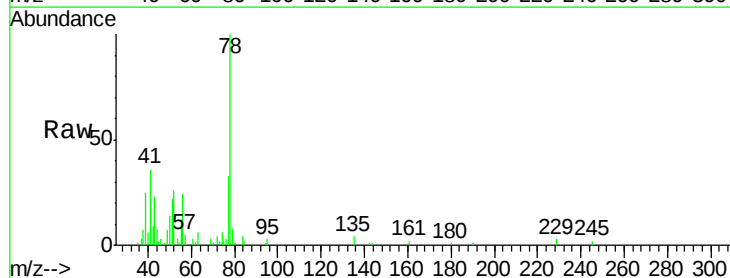
Manual Integrations
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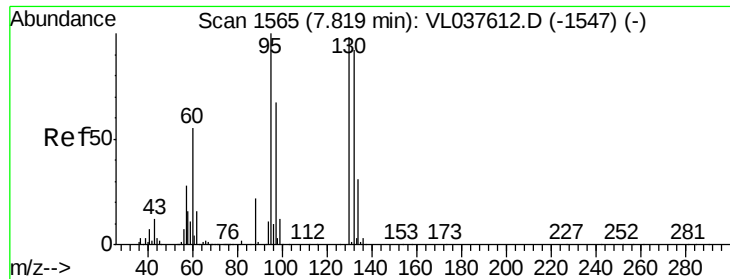
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#36
Benzene
Concen: 0.101 ppbv m
RT: 6.90 min Scan# 1279
Delta R.T. 0.02 min
Lab File: VL037694.D
Acq: 27 Sep 2021 23:47

Tgt Ion: 78 Resp: 37448
Ion Ratio Lower Upper
78 100
77 32.6 19.0 28.4#
50 14.5 14.8 22.2#





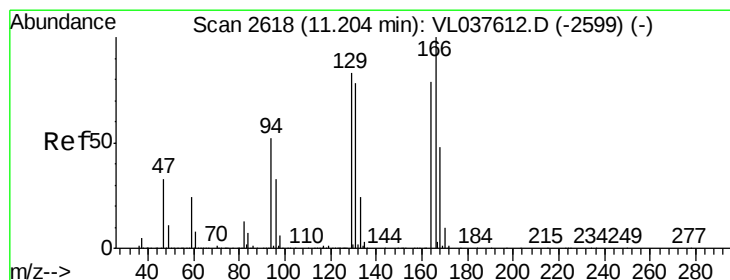
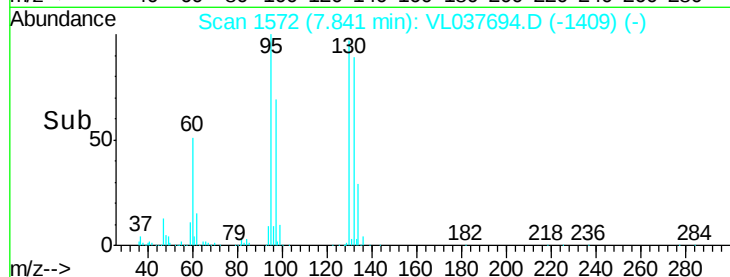
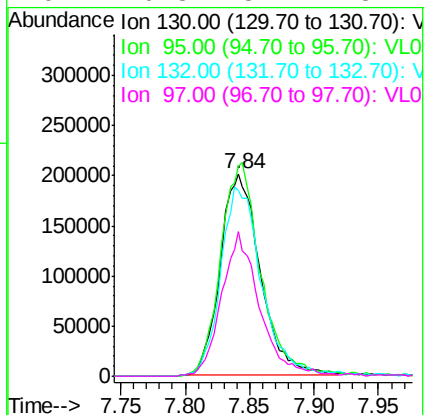
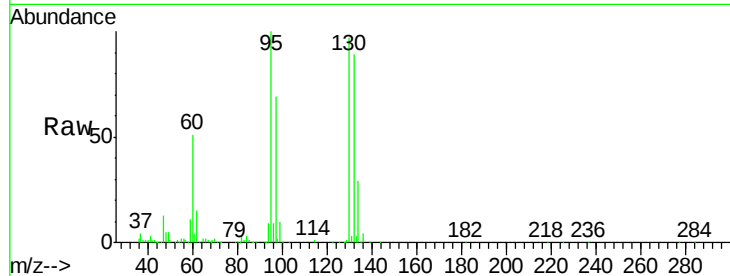
#38
 Trichloroethene
 Concen: 2.788 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.02 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	430752		
95	103.0	81.8	122.6	
132	91.4	75.3	112.9	
97	70.8	54.7	82.1	

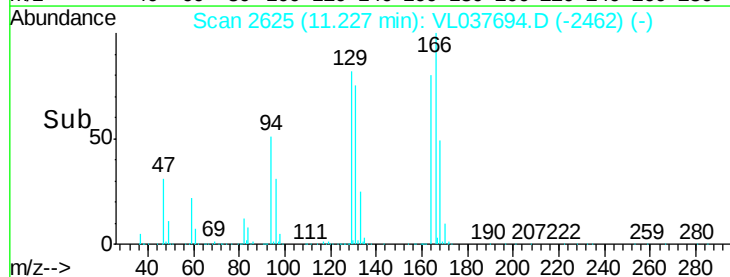
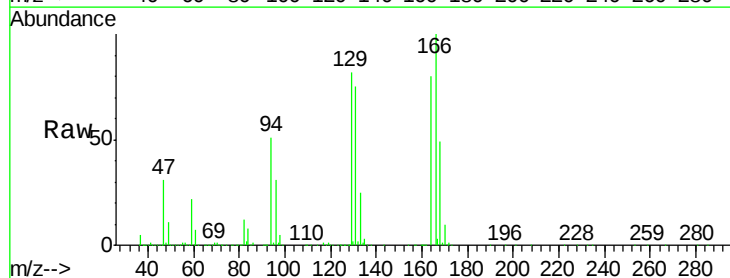
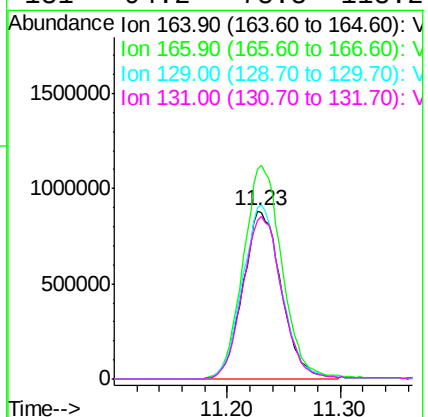
Manual Integrations
 APPROVED

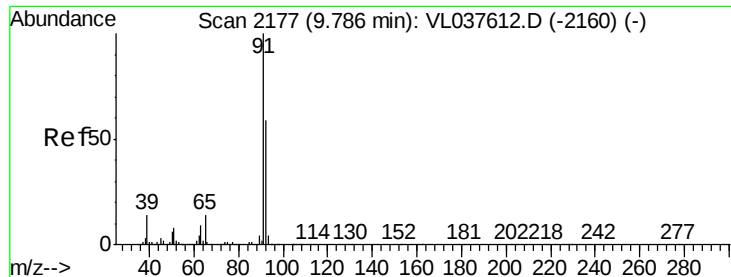
MMDadoda
 10/1/2021 11:05:35 AM



#52
 Tetrachloroethene
 Concen: 14.729 ppbv
 RT: 11.23 min Scan# 2625
 Delta R.T. 0.02 min
 Lab File: VL037694.D
 Acq: 27 Sep 2021 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	2091551		
166	125.1	101.2	151.8	
129	102.2	84.0	126.0	
131	94.2	78.8	118.2	





#53

Toluene

Concen: 0.434 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.02 min

Lab File: VL037694.D

Acq: 27 Sep 2021 23:47

Instrument :

MSVOA_L

ClientSampleId :

SV6

Tgt Ion: 91 Resp: 178529

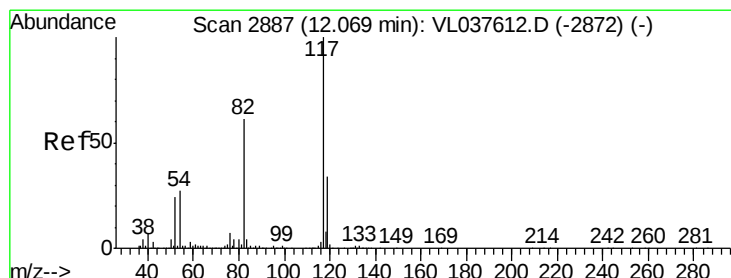
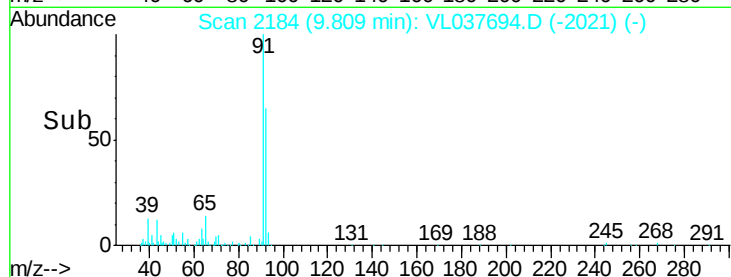
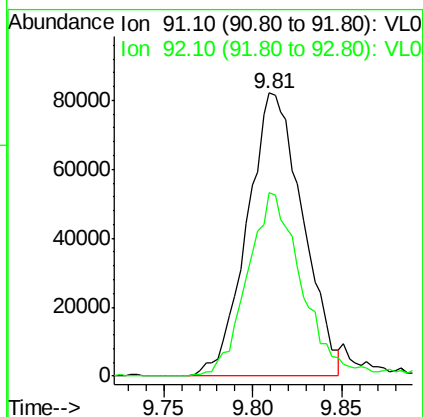
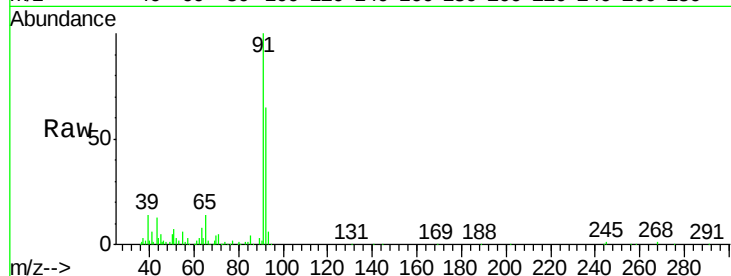
Ion Ratio Lower Upper

91 100

92 64.2 48.9 73.3

Manual Integrations
APPROVED

MMDadoda
10/1/2021 11:05:35 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.02 min

Lab File: VL037694.D

Acq: 27 Sep 2021 23:47

Tgt Ion: 117 Resp: 3896707

Ion Ratio Lower Upper

117 100

82 63.0 50.6 75.8

119 34.1 26.2 39.2

