

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037425.D
 Acq On : 12 Aug 2021 22:45
 Operator : SY/AP
 Sample : M3211-06RE
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1RE

Manual Integrations
 APPROVED

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 8/13/2021 3:03:11 PM

Quant Time: Aug 13 10:58:05 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1239559	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3664795	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3049478	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2181068	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	26483	0.140	ppbv 96
3) Chlorodifluoromethane	2.99	51	105999m	0.435	ppbv
4) Chloromethane	3.14	50	60056	0.686	ppbv 98
5) Vinyl Chloride	3.26	62	262	0.003	ppbv 94
6) Bromomethane	3.48	94	396	0.008	ppbv # 34
7) Chloroethane	3.56	64	532	0.017	ppbv # 61
8) Dichlorotetrafluoroethane	3.18	85	1545	0.007	ppbv # 13
9) Propene	3.02	41	618974	7.573	ppbv # 66
10) Heptane	8.13	43	115438m	0.581	ppbv
11) Trichlorofluoromethane	3.95	101	2869736	14.004	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1766	0.012	ppbv # 1
13) Ethanol	3.61	45	4602281	527.587	ppbv 89
14) Bromoethene	3.55	108	119	0.002	ppbv # 1
15) Acetone	3.84	43	14798411	112.572	ppbv 97
17) tert-Butyl alcohol	4.31	59	37819m	0.301	ppbv
18) 1,1-Dichloroethene	4.30	96	342	0.005	ppbv # 1
19) Isopropyl Alcohol	3.97	45	938762	12.271	ppbv # 1
20) Methylene Chloride	4.35	84	582588	8.381	ppbv 96
22) trans-1,2-Dichloroethene	4.88	96	246	0.004	ppbv # 7
24) 1,1-Dichloroethane	5.01	63	501	0.003	ppbv # 89
26) Hexane	5.69	57	569326	3.521	ppbv # 54
27) Carbon Disulfide	4.55	76	18541m	0.136	ppbv
28) Methyl tert-Butyl Ether	5.04	73	864	0.005	ppbv # 52
29) Chloroform	5.75	83	333584	1.465	ppbv 99
30) Cyclohexane	7.13	84	45252	0.340	ppbv 91
31) cis-1,2-Dichloroethene	5.55	61	450	0.003	ppbv # 22
32) 1,1,1-Trichloroethane	6.52	97	253	0.001	ppbv # 22
34) 2-Butanone	5.24	43	1059219	7.001	ppbv 96
35) Carbon Tetrachloride	7.02	117	18371m	0.081	ppbv
36) Benzene	6.89	78	237740	0.769	ppbv 94
37) 1,2-Dichloroethane	6.30	62	2158	0.014	ppbv # 80
40) 1,4-Dioxane	7.83	88	186	0.006	ppbv # 100
41) Tetrahydrofuran	6.02	42	40049m	0.576	ppbv
42) Bromodichloromethane	7.79	83	6434	0.029	ppbv # 66
43) Methyl Methacrylate	8.01	69	28273m	0.270	ppbv
44) 2,2,4-Trimethylpentane	7.87	57	394895	0.764	ppbv 90
45) t-1,3-Dichloropropene	9.28	75	104	0.001	ppbv # 44
46) cis-1,3-Dichloropropene	8.70	75	67	0.001	ppbv # 36
47) 1,1,2-Trichloroethane	9.47	97	130	0.001	ppbv # 74
48) Dibromochloromethane	10.30	129	194	0.001	ppbv # 10
49) Bromoform	13.05	173	184	0.001	ppbv # 45

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 2021
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

50) 4-Methyl-2-Pentanone	8.75	43	64291m	0.338	ppbv	
52) Tetrachloroethene	11.22	164	12969m	0.100	ppbv	
53) Toluene	9.80	91	4746368	13.453	ppbv	99
54) 1,2-Dibromoethane	10.63	107	142	0.001	ppbv	83
56) 1,1,1,2-Tetrachloroethane	12.12	131	176	0.001	ppbv #	1
57) Chlorobenzene	12.14	112	816	0.003	ppbv #	52
58) Ethyl Benzene	12.71	91	485800	1.174	ppbv	99
59) m/p-Xylene	12.96	91	1578247m	4.343	ppbv	
60) o-Xylene	13.68	91	426898m	1.265	ppbv	
61) Styrene	13.53	104	68260m	0.400	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	353	0.001	ppbv #	24
64) n-propylbenzene	15.55	120	23327m	0.192	ppbv	
65) tert-Butylbenzene	16.75	119	63631m	0.146	ppbv	
66) Benzyl Chloride	17.00	91	505	0.025	ppbv #	1
67) sec-Butylbenzene	17.29	105	3675	0.006	ppbv #	58
69) p-Isopropyltoluene	17.64	119	54799m	0.113	ppbv	
70) n-Butylbenzene	18.55	91	56289m	0.125	ppbv	
71) 2-Chlorotoluene	15.59	91	4570	0.013	ppbv	89
72) 4-Ethyltoluene	15.83	105	158437m	0.404	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	157430	0.425	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	510417	1.346	ppbv #	71
76) 1,4-Dichlorobenzene	17.13	146	3702277	16.088	ppbv	98
77) 1,2-Dichlorobenzene	17.81	146	489	0.002	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.36	225	231	0.001	ppbv #	1
79) Naphthalene	22.19	128	110476m	0.536	ppbv	
80) Naphthalene,2-methyl-	24.97	142	3874m	0.089	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	833	0.006	ppbv #	3

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

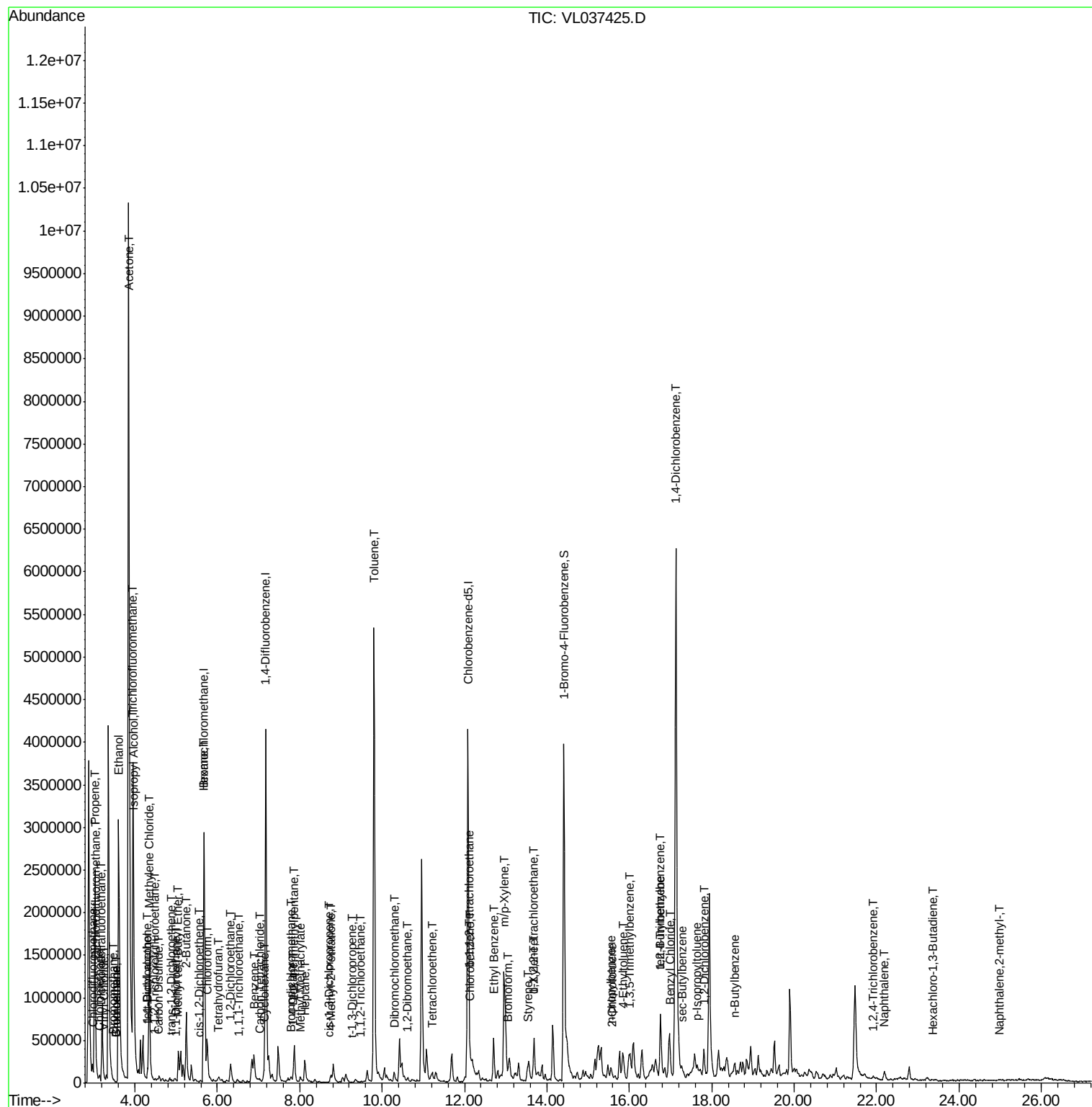
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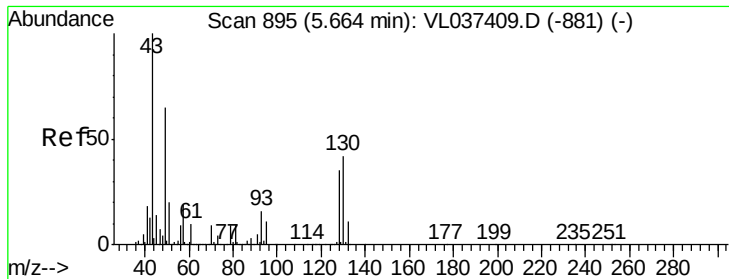
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion: 49 Resp: 1239559

Ion Ratio Lower Upper

49 100

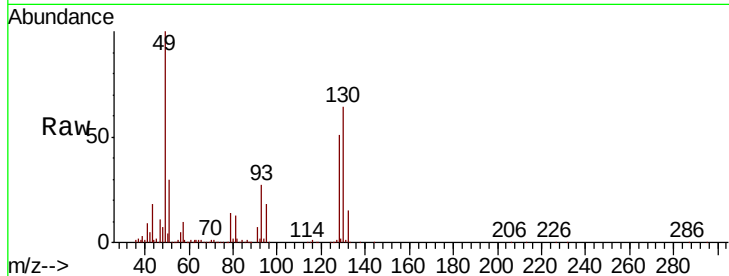
128 53.7 27.9 83.6

130 69.0 34.6 103.8

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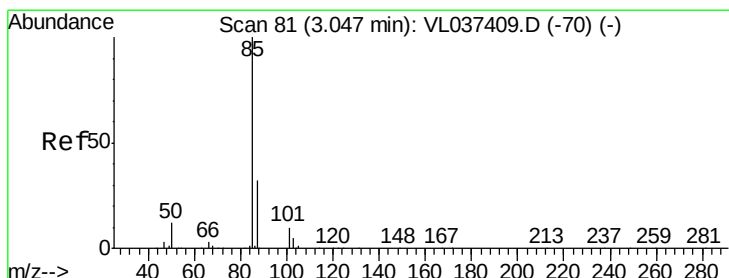
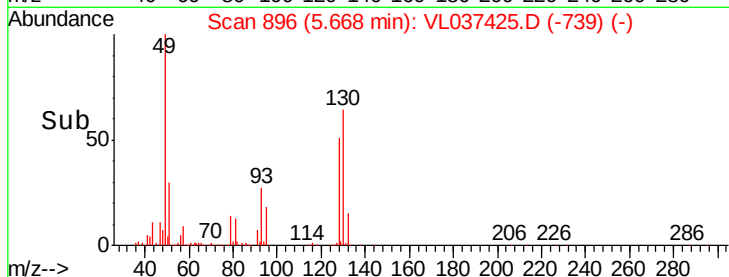
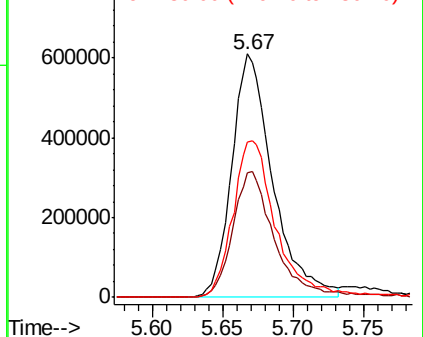
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.140 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037425.D

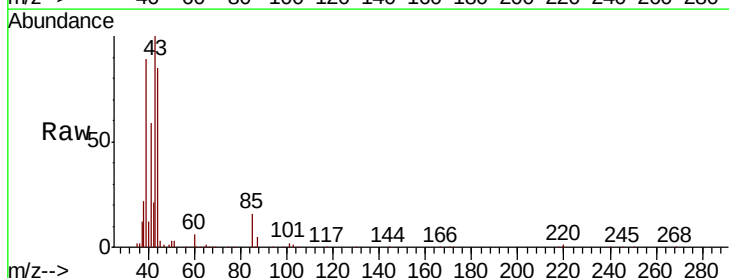
Acq: 12 Aug 2021 22:45

Tgt Ion: 85 Resp: 26483

Ion Ratio Lower Upper

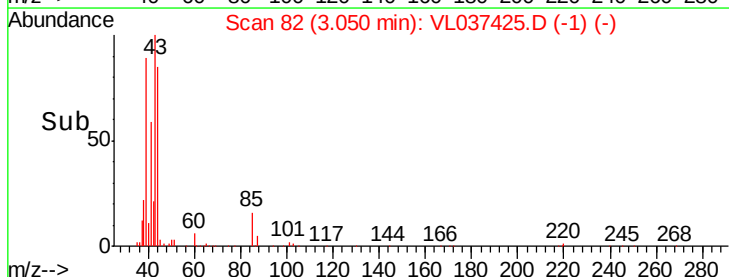
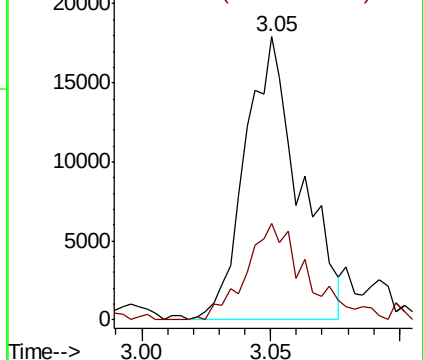
85 100

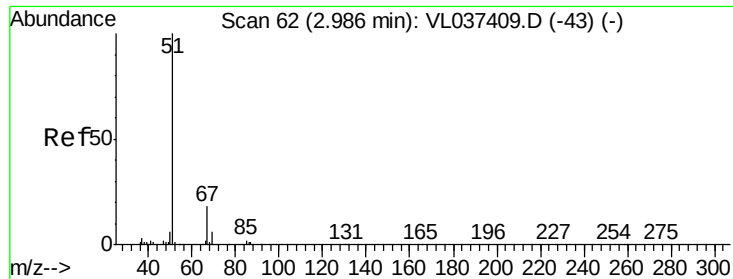
87 34.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





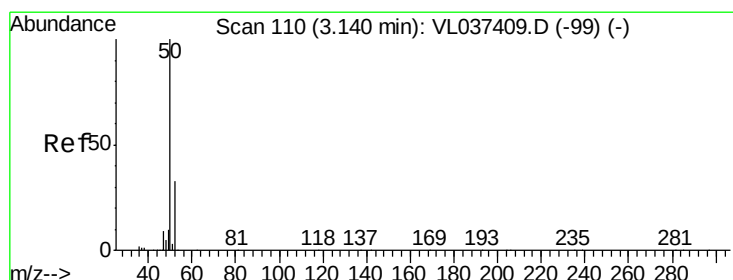
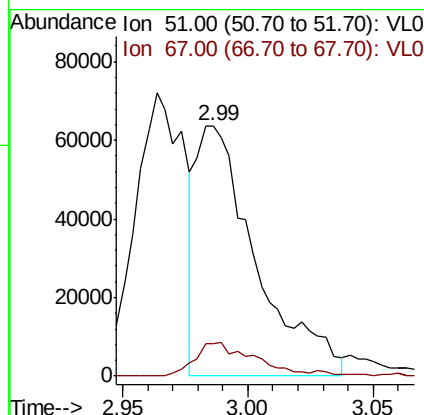
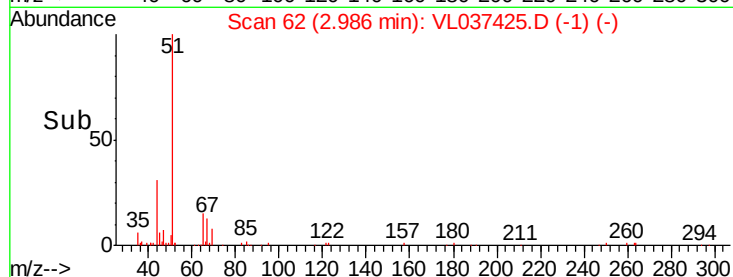
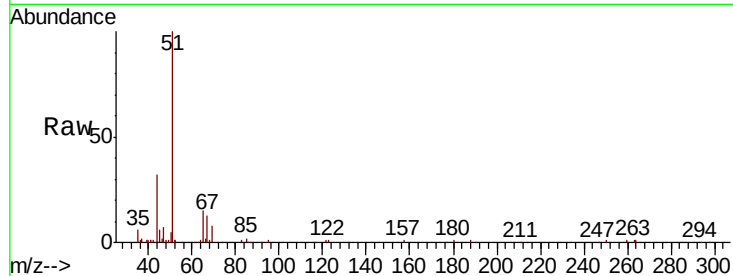
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Chlorodifluoromethane
Concen: 0.435 ppbv
RT: 2.99 min Scan# 62
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampleId :
IA-1RE

Tot Ion: 51 Resp: 105999
Ion Ratio Lower Upper
51 100
67 14.0 14.7 22.1#

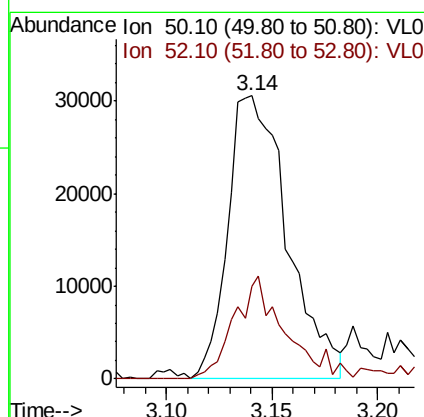
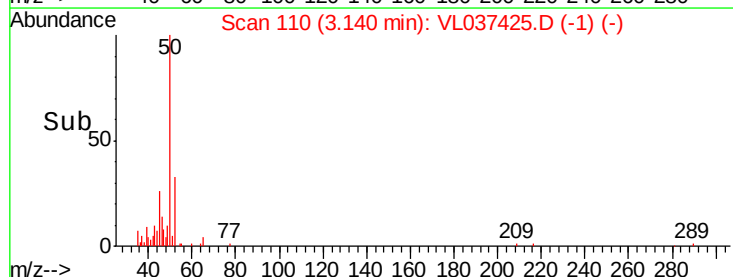
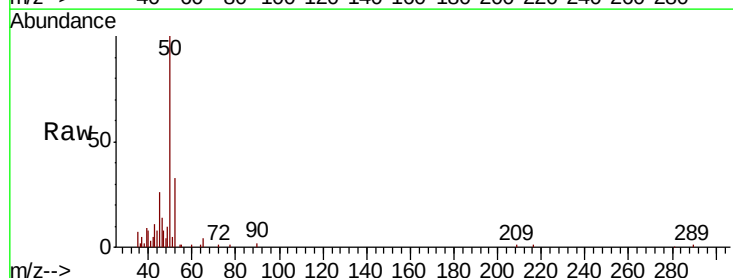
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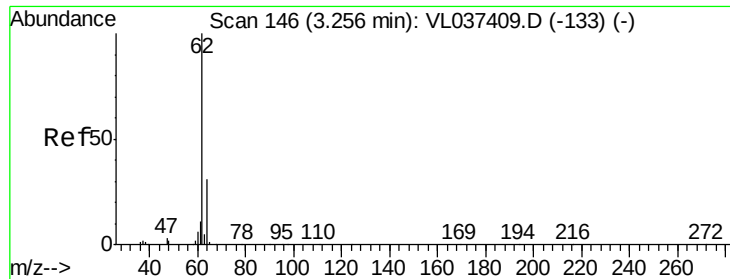
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#4
Chloromethane
Concen: 0.686 ppbv
RT: 3.14 min Scan# 110
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion: 50 Resp: 60056
Ion Ratio Lower Upper
50 100
52 34.1 26.2 39.4





#5

Vinyl Chloride

Concen: 0.003 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion: 62 Resp: 262

Ion Ratio Lower Upper

62 100

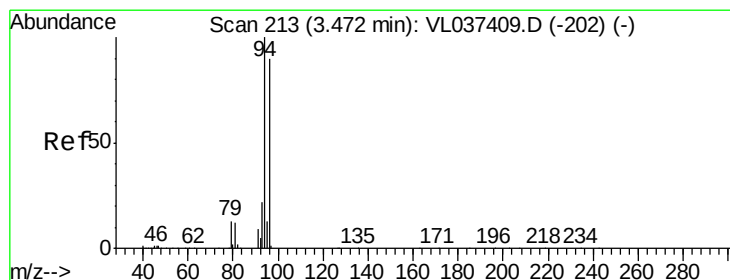
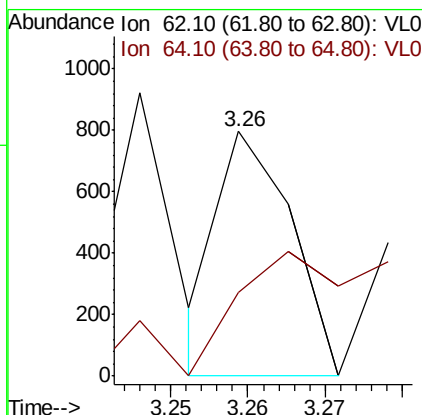
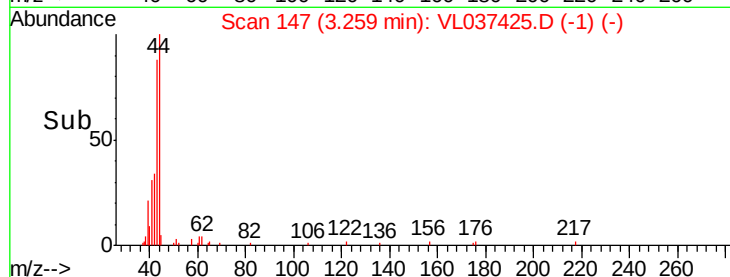
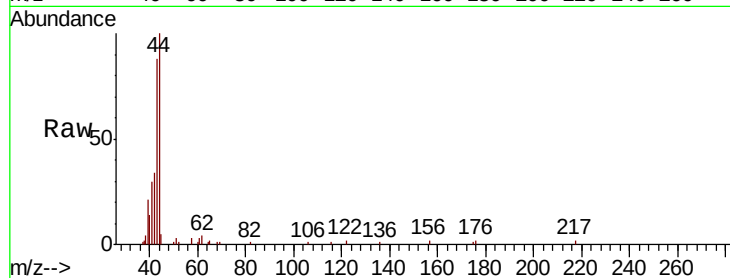
64 34.4 25.0 37.6

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#6

Bromomethane

Concen: 0.008 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL037425.D

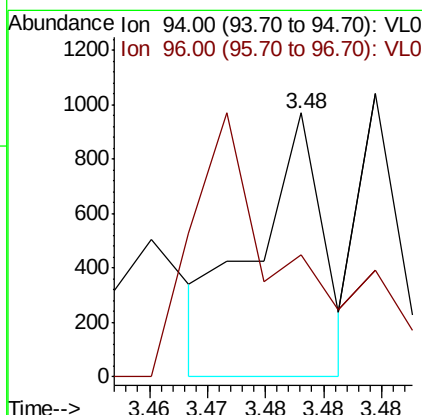
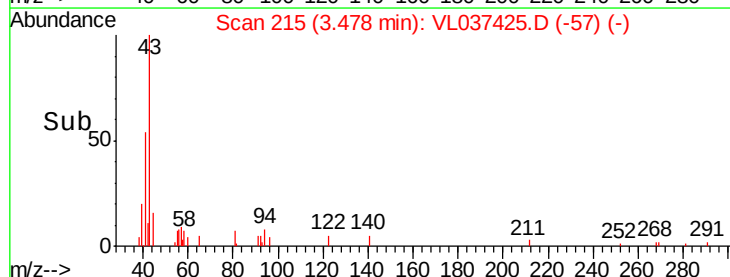
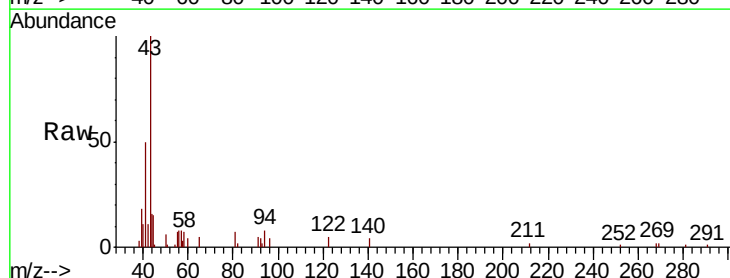
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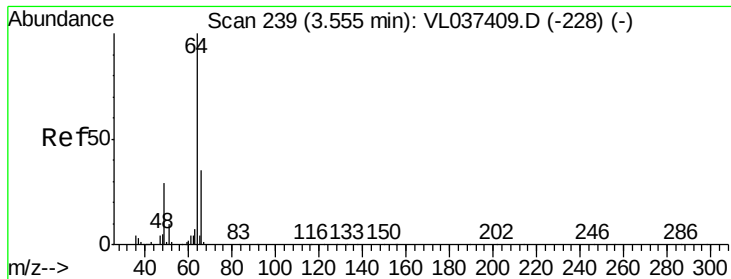
Tgt Ion: 94 Resp: 396

Ion Ratio Lower Upper

94 100

96 27.7 72.2 108.4#





#7

Chloroethane

Concen: 0.017 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion: 64 Resp: 532

Ion Ratio Lower Upper

64 100

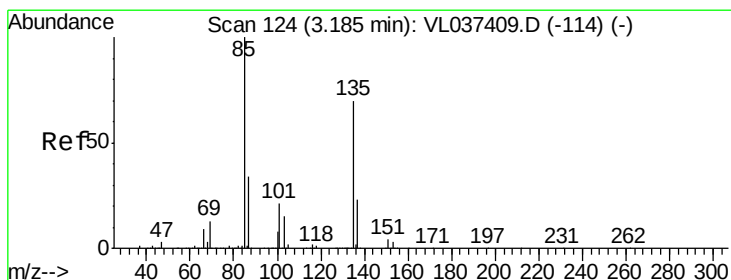
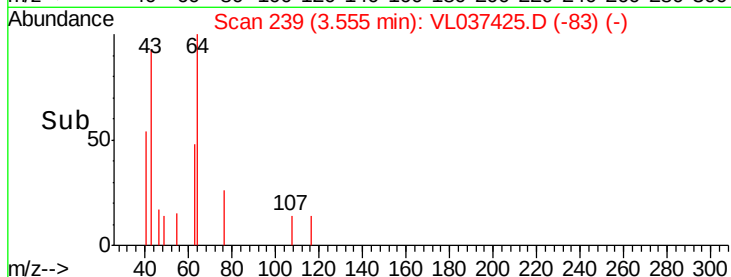
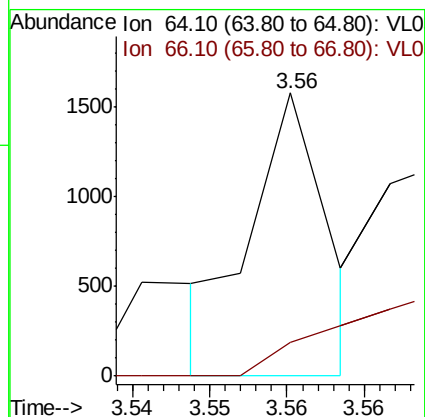
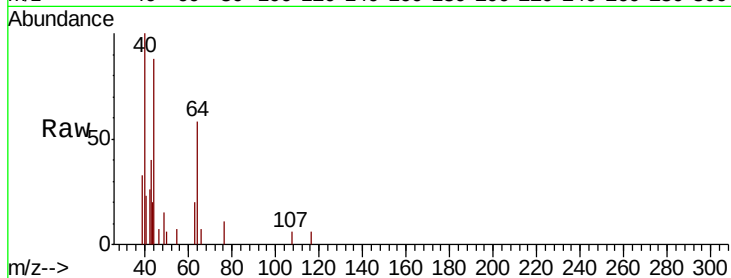
66 12.0 27.8 41.8#

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#8

Dichlorotetrafluoroethane

Concen: 0.007 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL037425.D

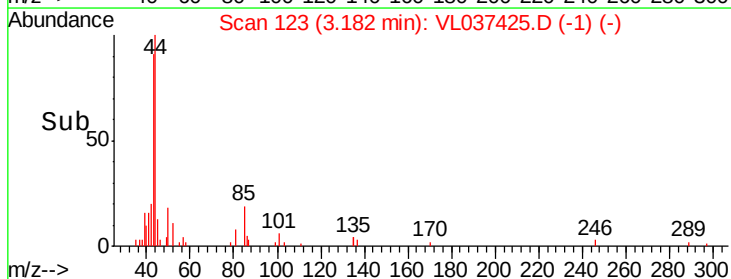
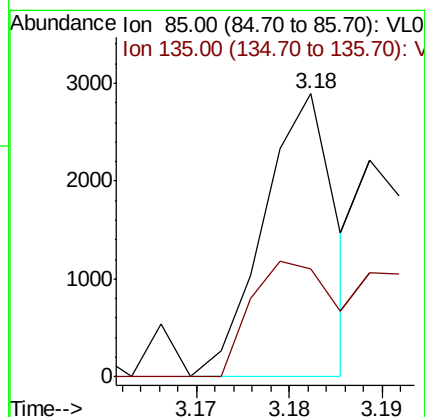
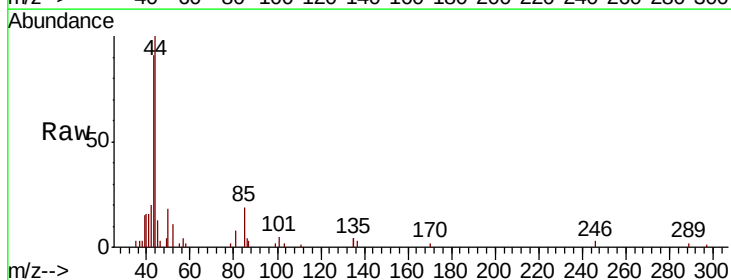
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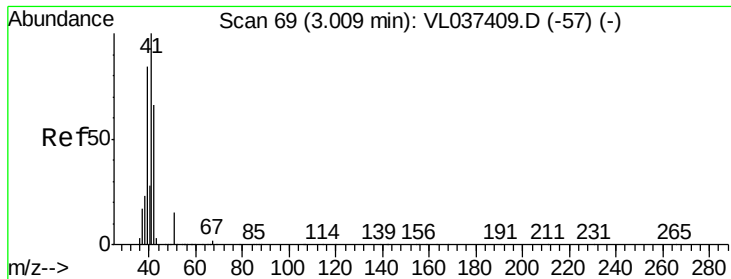
Tgt Ion: 85 Resp: 1545

Ion Ratio Lower Upper

85 100

135 0.0 58.6 88.0#





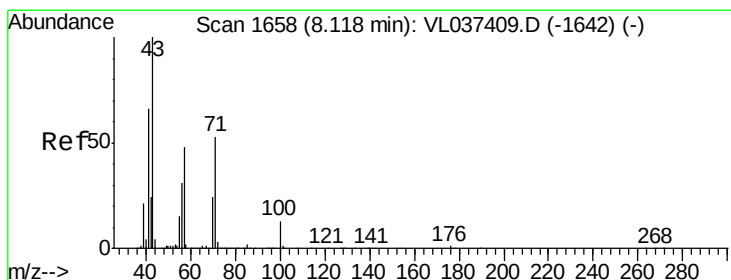
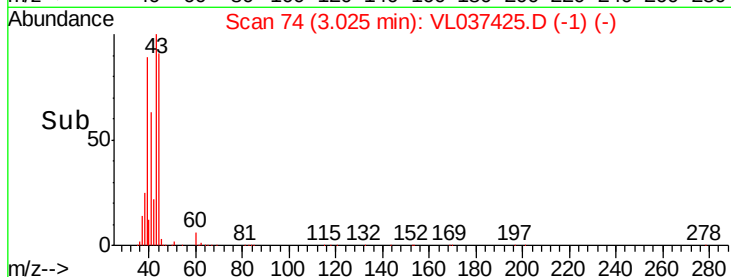
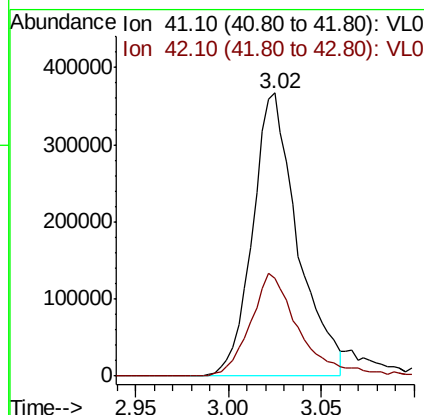
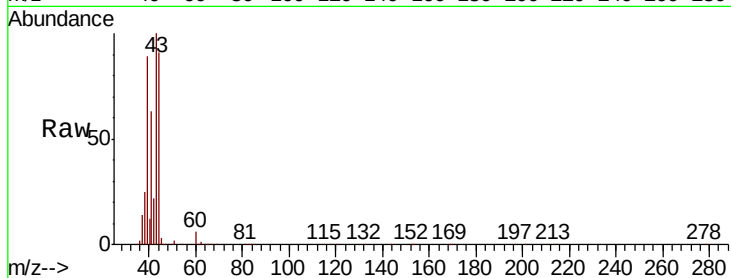
#9
Propene
Concen: 7.573 ppbv
RT: 3.02 min Scan# 74
Delta R.T. 0.02 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	41	Resp	618974
Ion Ratio	100	Lower	Upper
42	39.8	53.8	80.8#

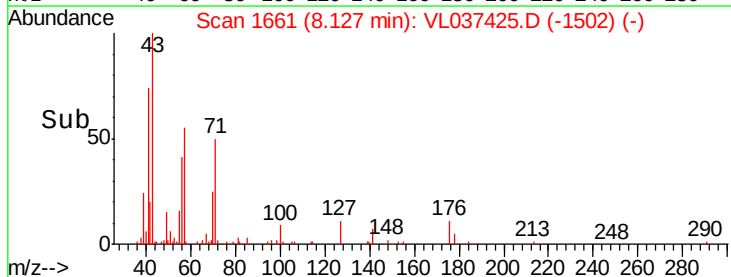
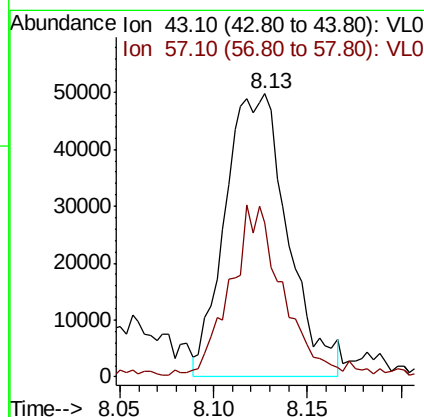
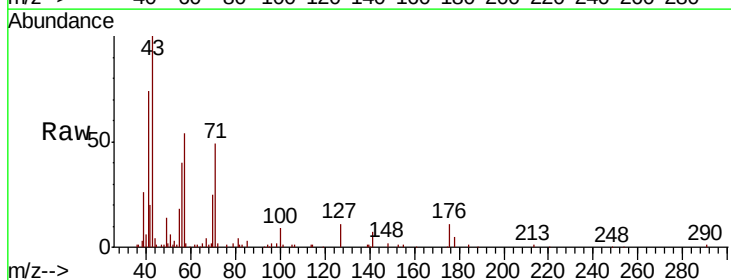
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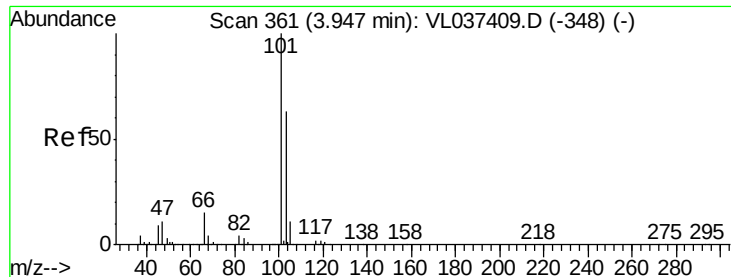
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#10
Heptane
Concen: 0.581 ppbv m
RT: 8.13 min Scan# 1661
Delta R.T. 0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	43	Resp	115438
Ion Ratio	100	Lower	Upper
57	53.3	40.3	60.5





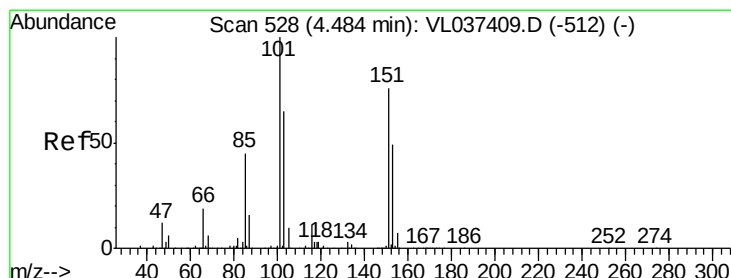
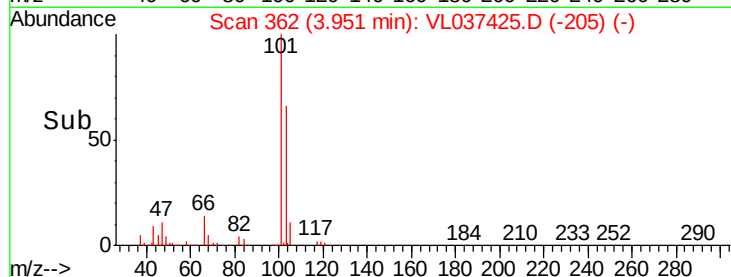
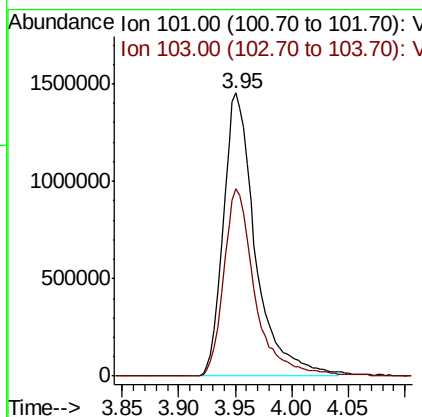
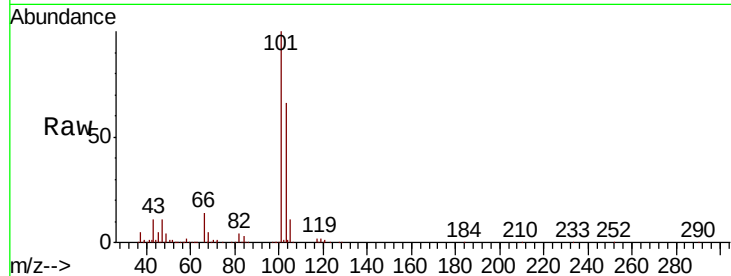
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 Trichlorofluoromethane
 Concen: 14.004 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion:101 Resp: 2869736
 Ion Ratio Lower Upper
 101 100
 103 66.1 50.2 75.4

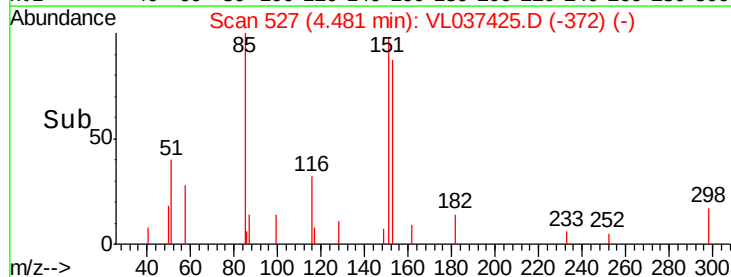
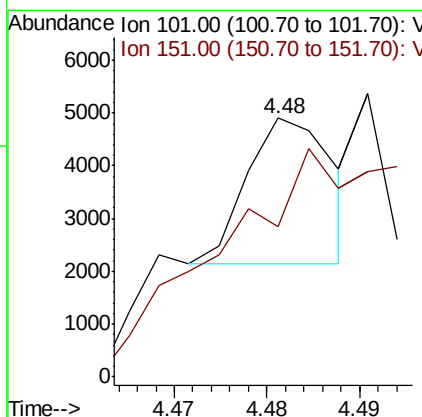
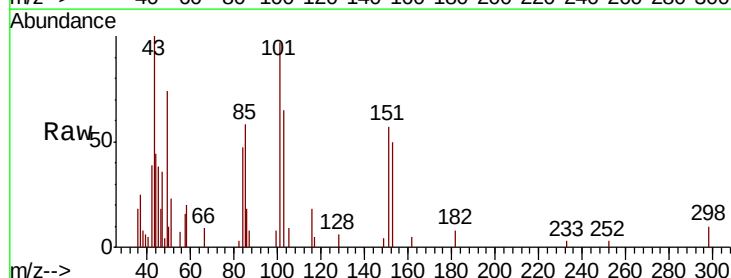
Manual Integrations
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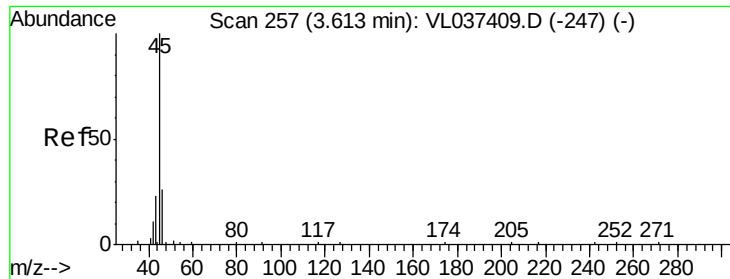
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.012 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion:101 Resp: 1766
 Ion Ratio Lower Upper
 101 100
 151 473.4 61.2 91.8#





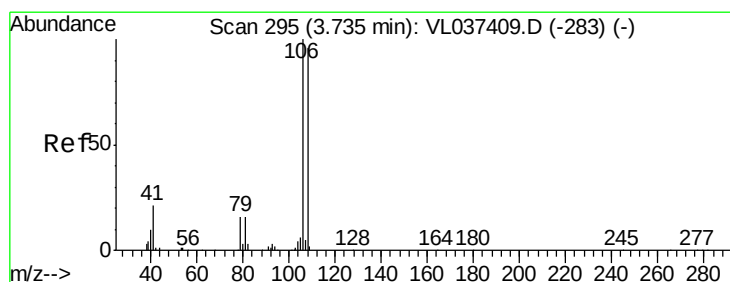
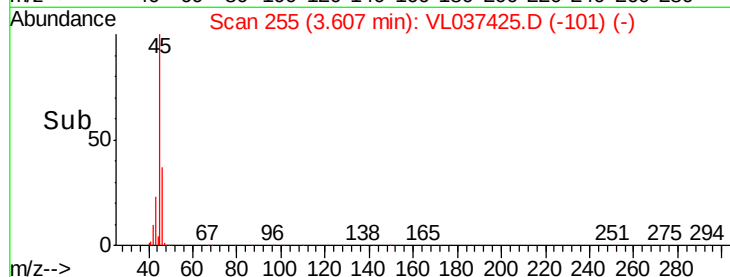
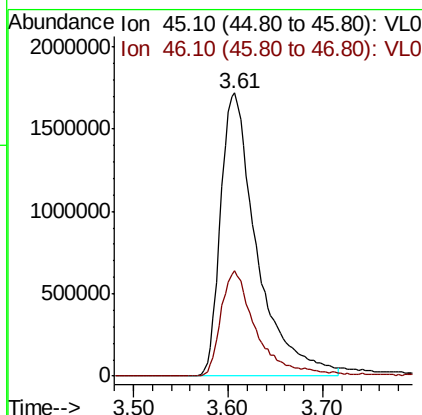
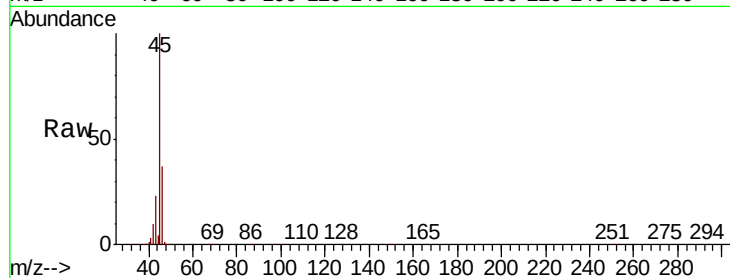
#13
Ethanol
Concen: 527.587 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampleId :
IA-1RE

Tot Ion: 45 Resp: 4602281
Ion Ratio Lower Upper
45 100
46 37.6 18.0 72.2

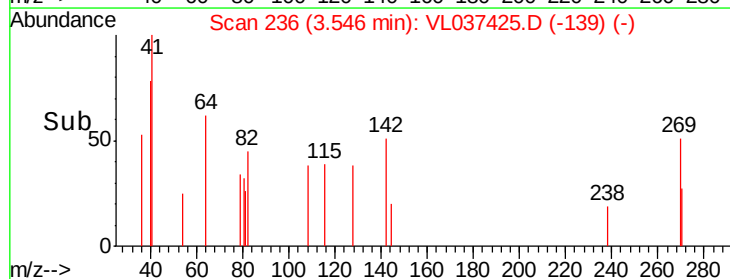
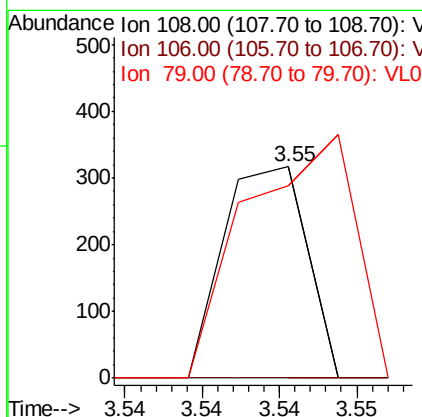
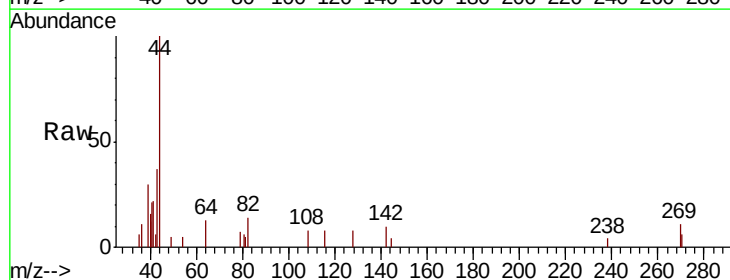
Manual Integrations
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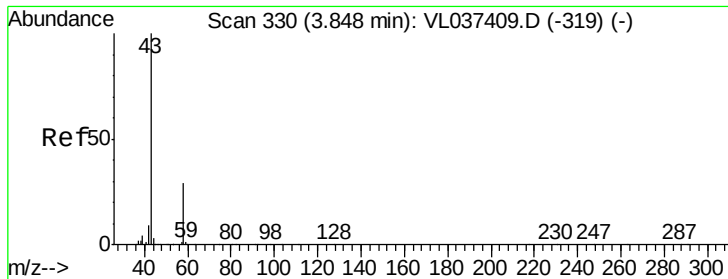
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#14
Bromoethene
Concen: 0.002 ppbv
RT: 3.55 min Scan# 236
Delta R.T. -0.19 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion: 108 Resp: 119
Ion Ratio Lower Upper
108 100
106 0.0 87.5 131.3#
79 177.3 13.5 20.3#





#15

Acetone

Concen: 112.572 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion: 43 Resp:14798411

Ion Ratio Lower Upper

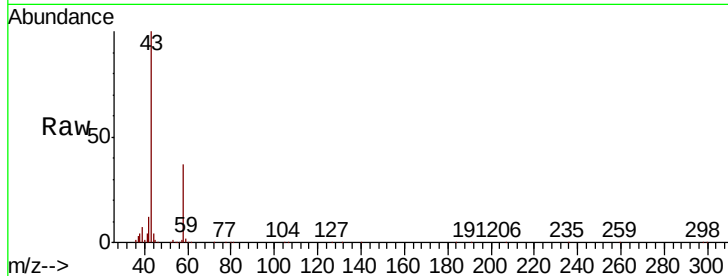
43 100

58 32.3 24.4 36.6

Manual Integrations
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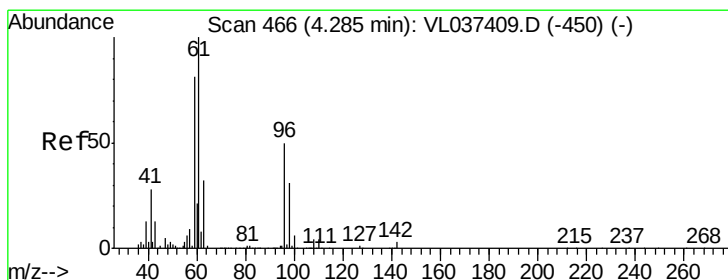
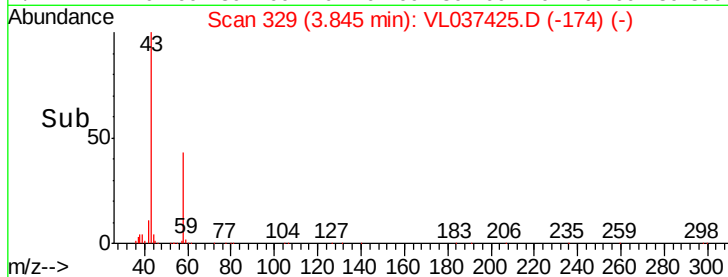
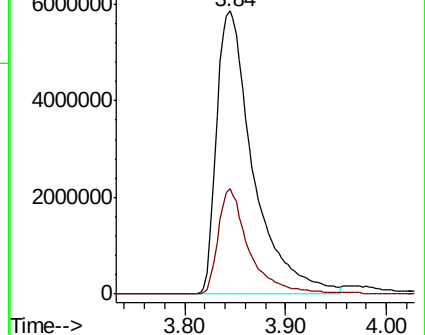
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.301 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.03 min

Lab File: VL037425.D

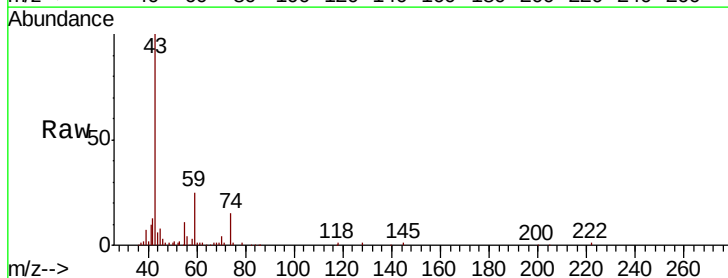
Acq: 12 Aug 2021 22:45

Tgt Ion: 59 Resp: 37819

Ion Ratio Lower Upper

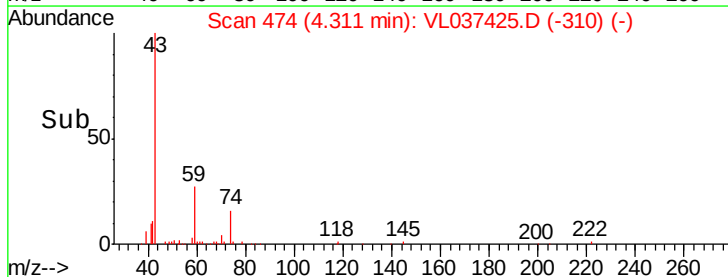
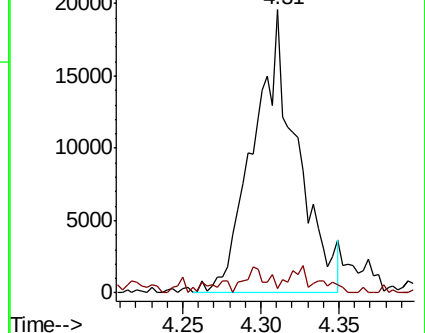
59 100

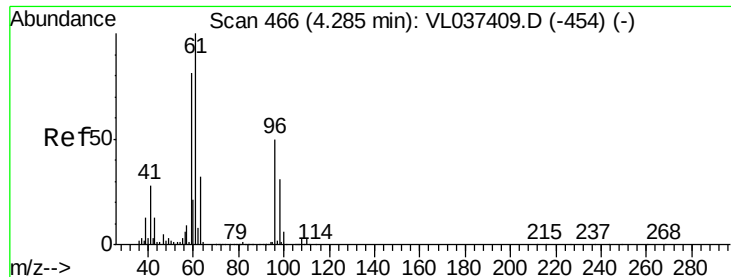
57 0.0 8.5 12.7#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





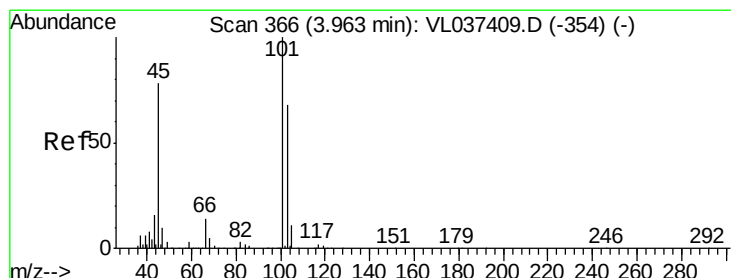
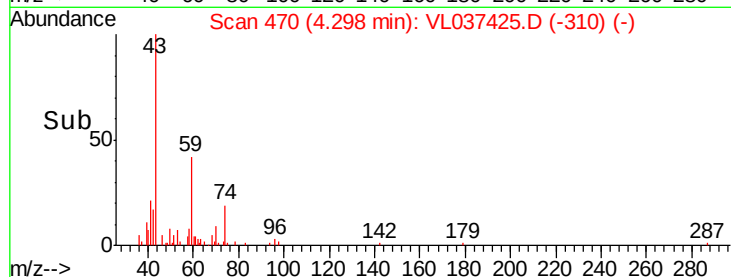
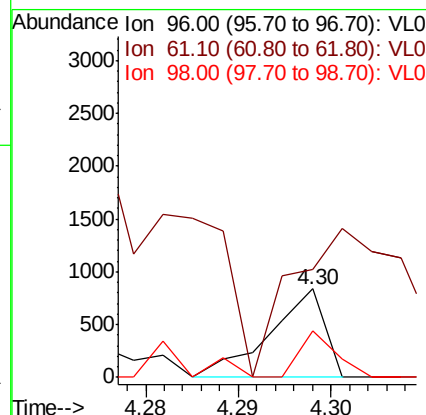
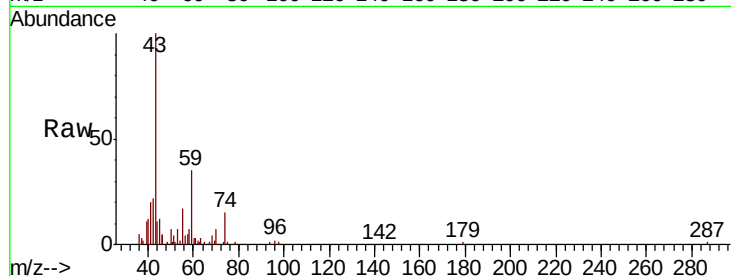
#18
 1,1-Dichloroethene
 Concen: 0.005 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	159.0	238.4#
98	52.8	49.4	74.2

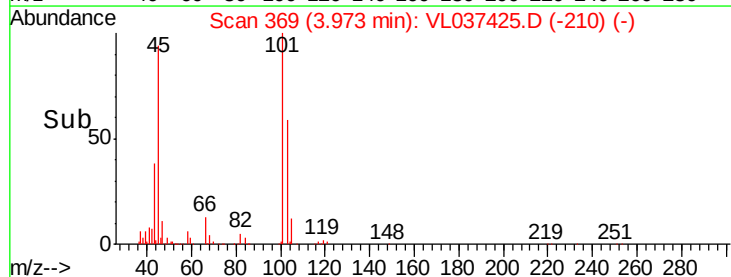
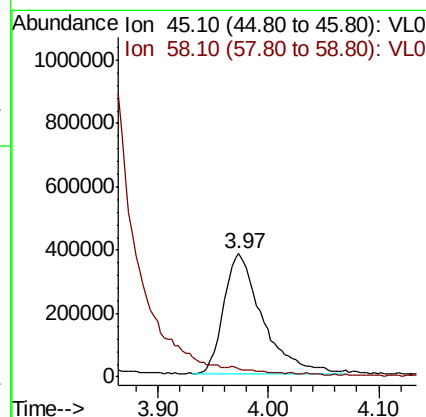
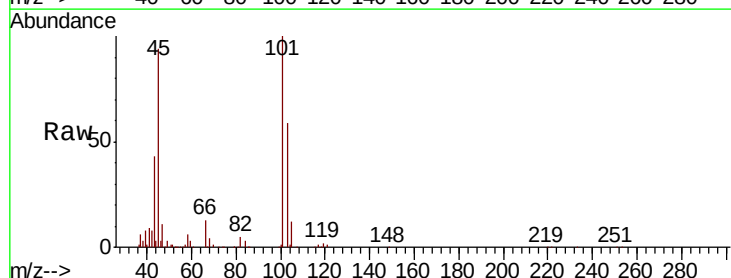
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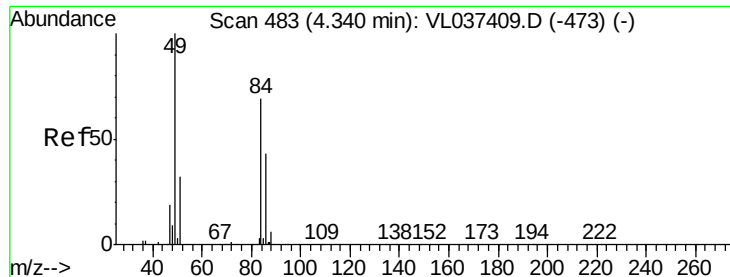
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#19
 Isopropyl Alcohol
 Concen: 12.271 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.01 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
45	100		
58	508.5	2.2	3.4#





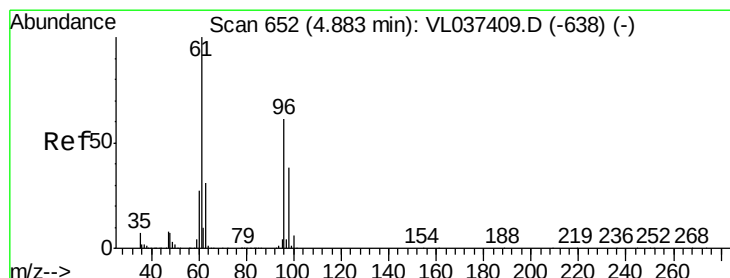
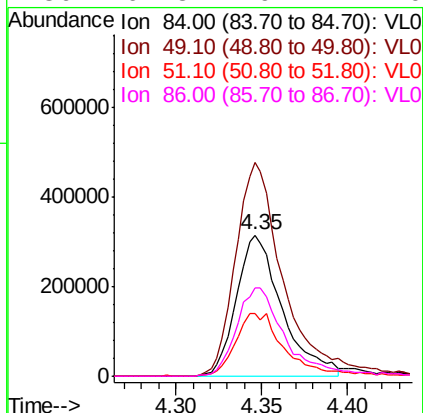
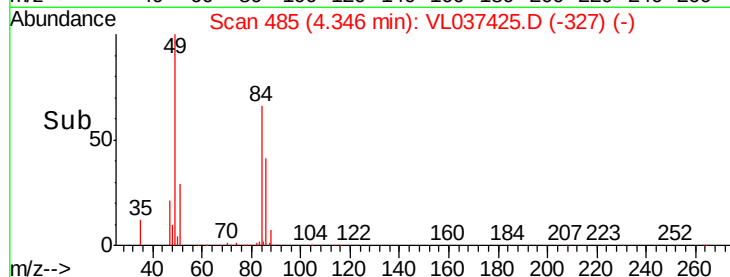
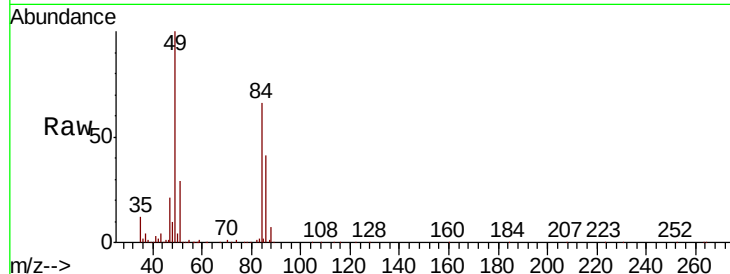
#20
Methvlene Chloride
Concen: 8.381 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion:	84	Resp:	582588
Ion Ratio	Lower	Upper	
84	100		
49	151.0	116.0	174.0
51	43.8	37.1	55.7
86	62.3	49.4	74.0

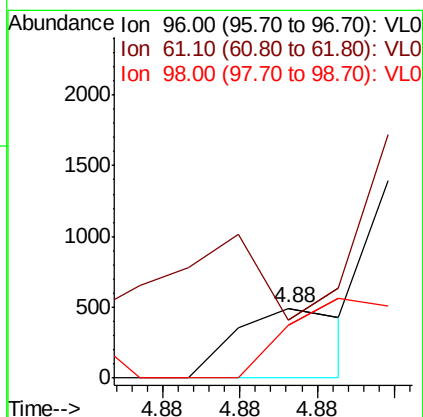
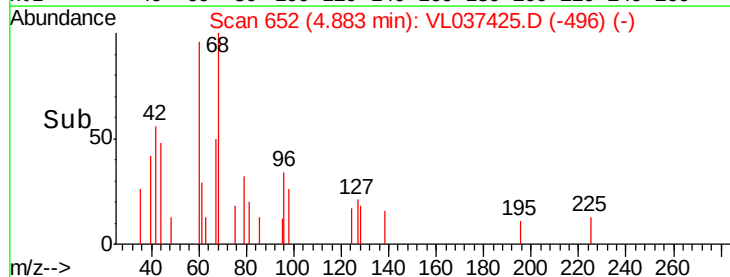
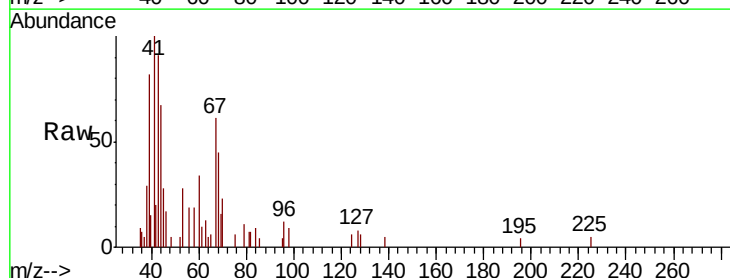
Manual Integrations
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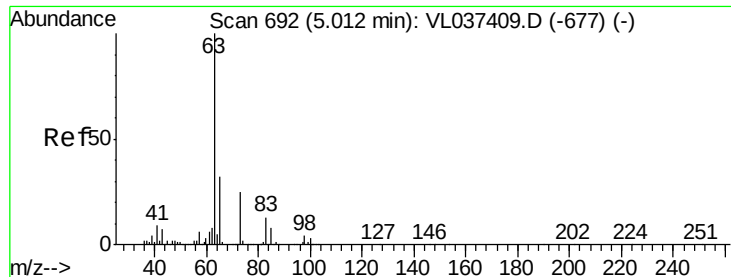
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#22
trans-1,2-Dichloroethene
Concen: 0.004 ppbv
RT: 4.88 min Scan# 652
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion:	96	Resp:	246
Ion Ratio	Lower	Upper	
96	100		
61	0.0	131.0	196.4#
98	75.5	50.2	75.4#





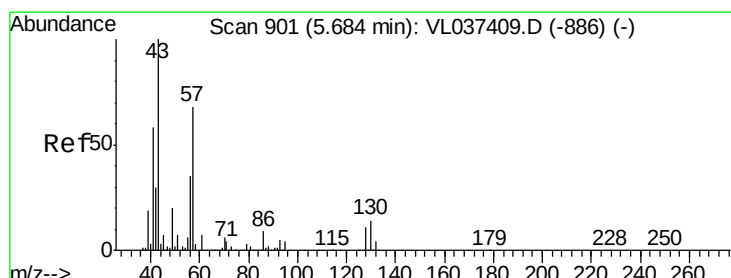
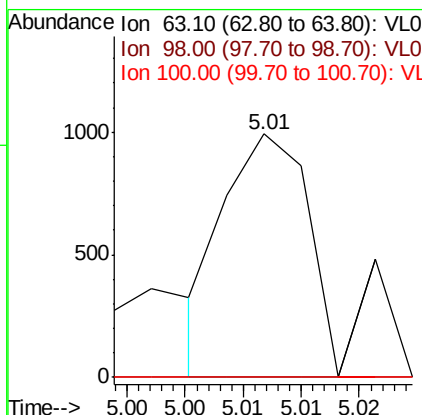
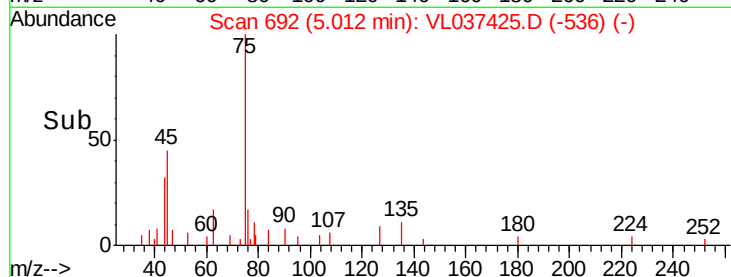
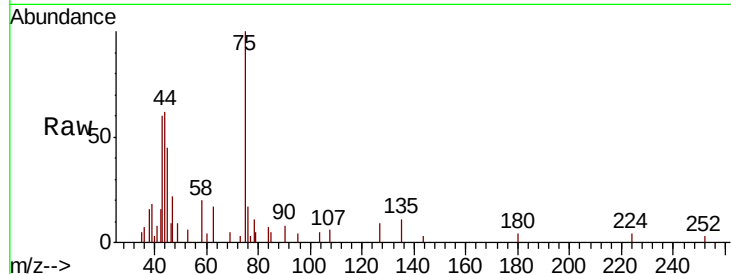
#24
 1,1-Dichloroethane
 Concen: 0.003 ppbv
 RT: 5.01 min Scan# 692
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.3#
100	0.0	1.6	4.7#

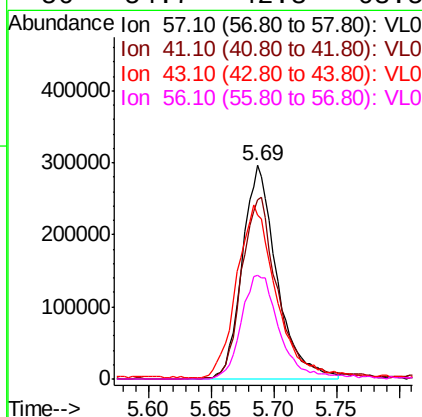
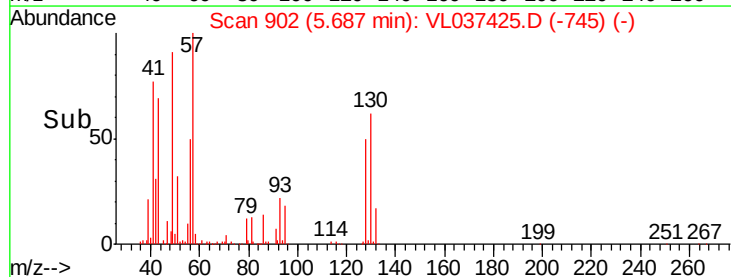
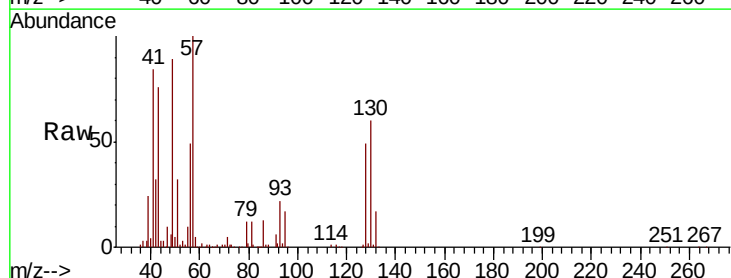
Manual Integrations
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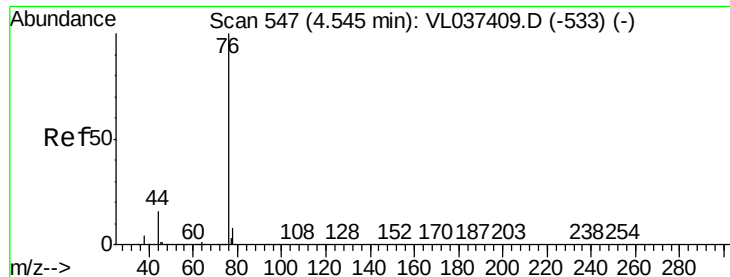
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#26
 Hexane
 Concen: 3.521 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.6	72.5	108.7
43	91.0	169.3	253.9#
56	54.7	42.3	63.5





#27

Carbon Disulfide

Concen: 0.136 ppbv m

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

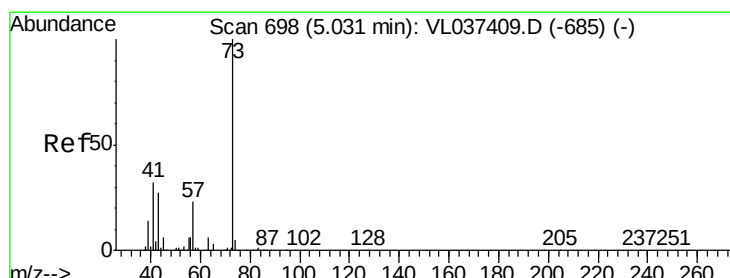
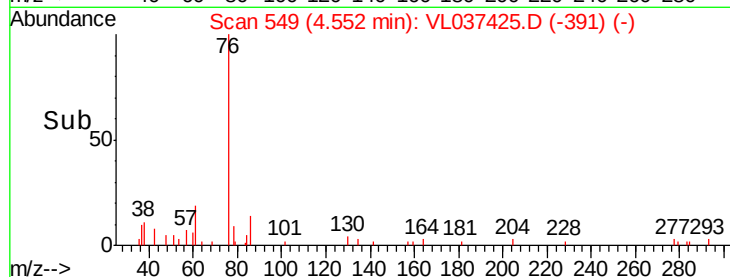
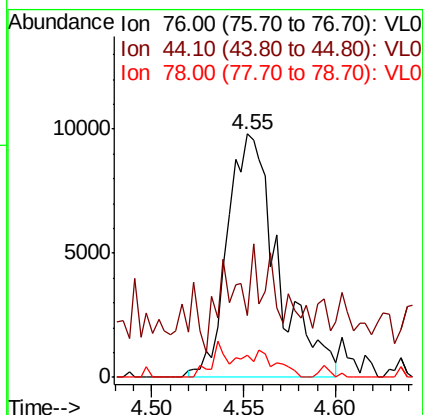
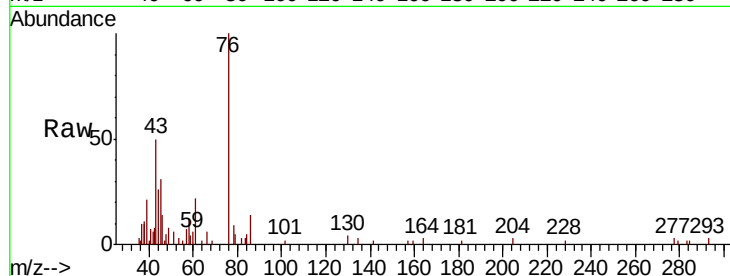
ClientSampled :

IA-1RE

Tot Ion:	76	Resp:	18541
Ion Ratio	Lower	Upper	
76	100		
44	36.6	14.4	21.6#
78	0.0	8.0	12.0#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.005 ppbv

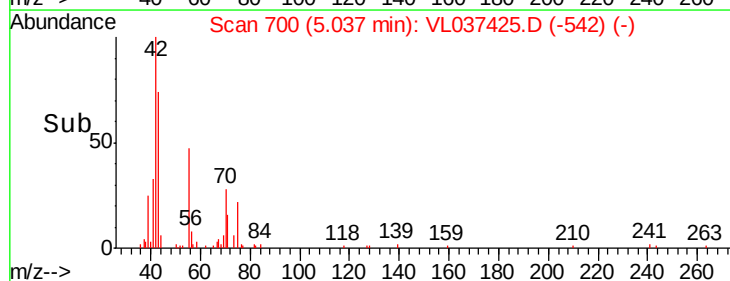
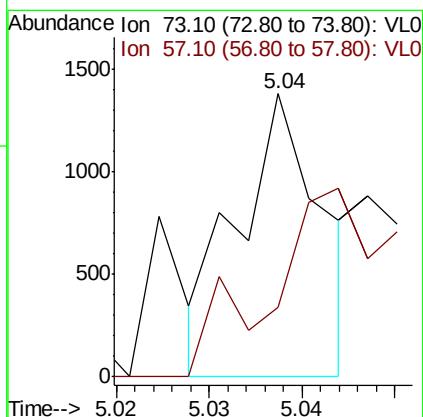
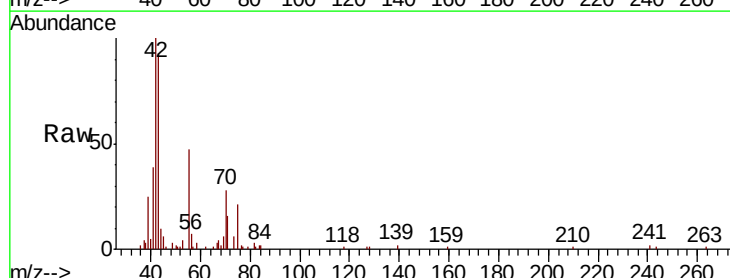
RT: 5.04 min Scan# 700

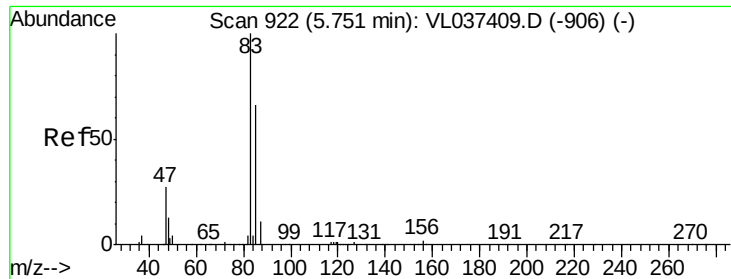
Delta R.T. 0.01 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Tgt Ion:	73	Resp:	864
Ion Ratio	Lower	Upper	
73	100		
57	0.0	19.0	28.4#





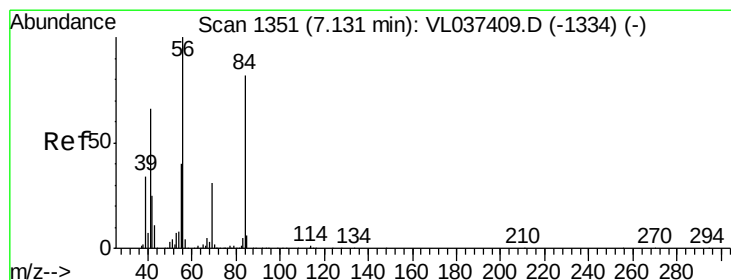
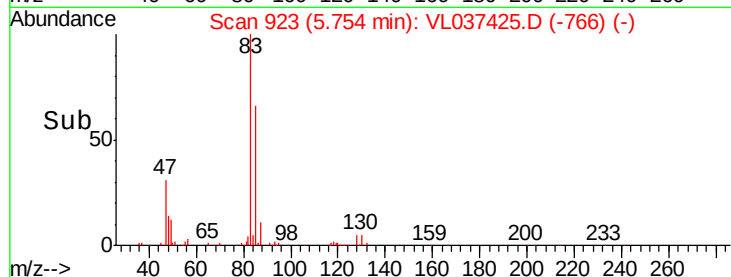
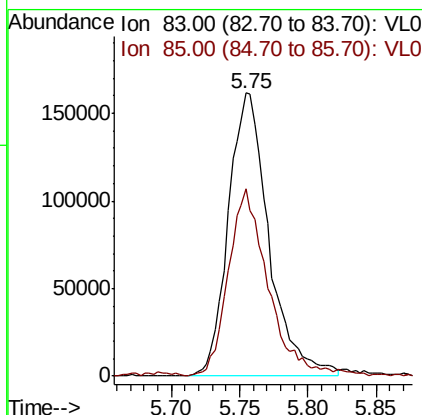
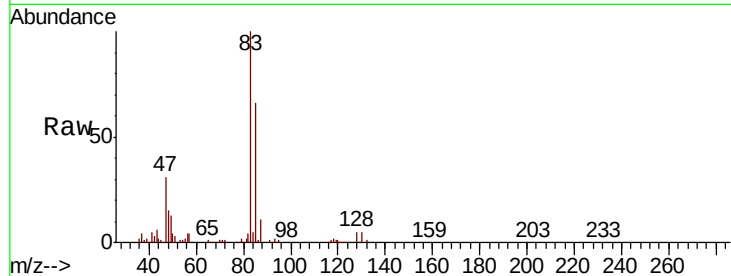
#29
Chloroform
Concen: 1.465 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.4	78.6

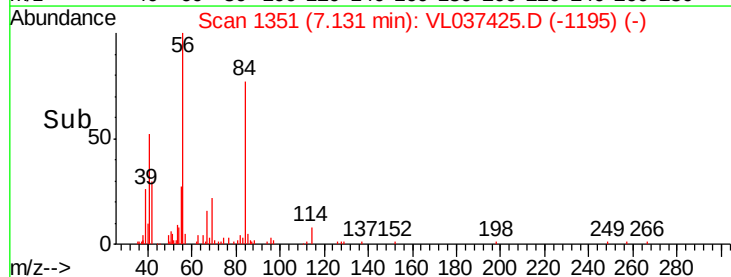
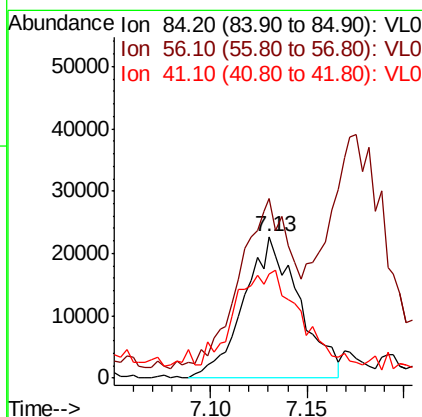
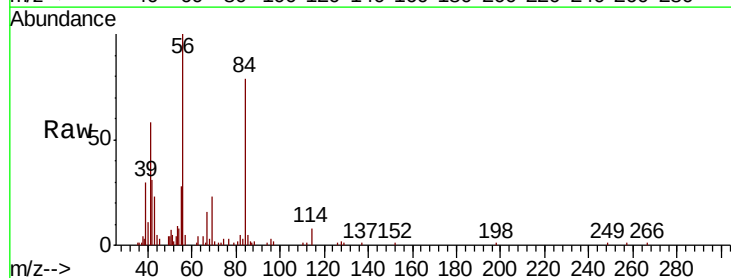
Manual Integrations
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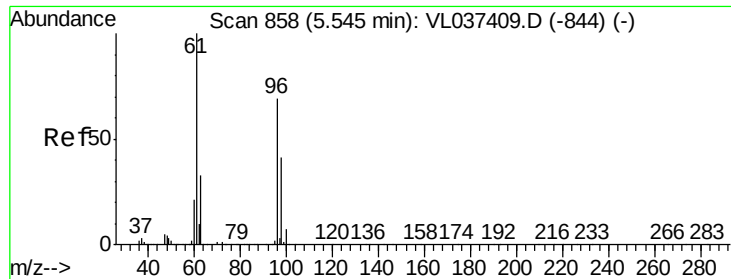
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#30
Cyclohexane
Concen: 0.340 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
84	100		
56	125.7	109.6	164.4
41	91.4	66.6	99.8





#31

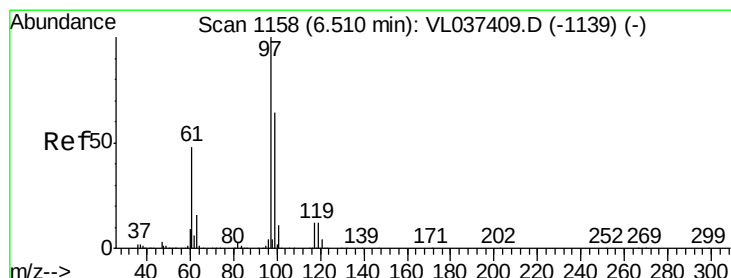
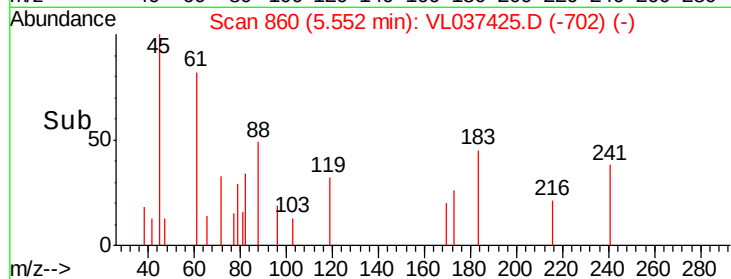
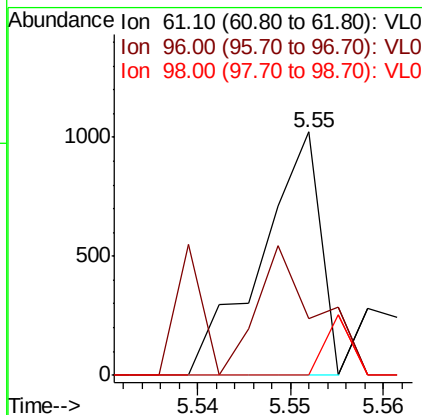
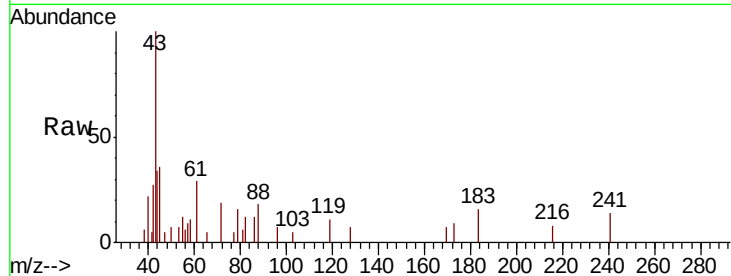
cis-1,2-Dichloroethene
 Concen: 0.003 ppbv
 RT: 5.55 min Scan# 860
 Delta R.T. 0.01 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1RE

Tot Ion:	61	Resp:	450
Ion Ratio	Lower	Upper	
61	100		
96	0.0	55.5	83.3#
98	0.0	33.1	49.7#

Manual Integrations
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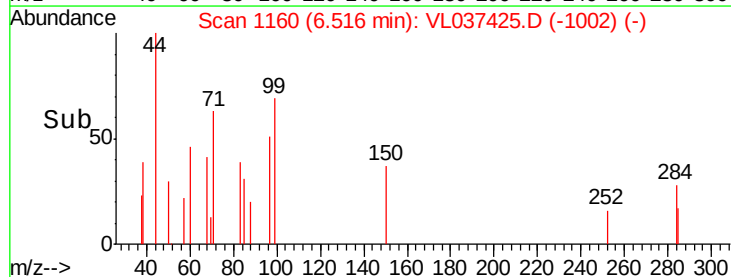
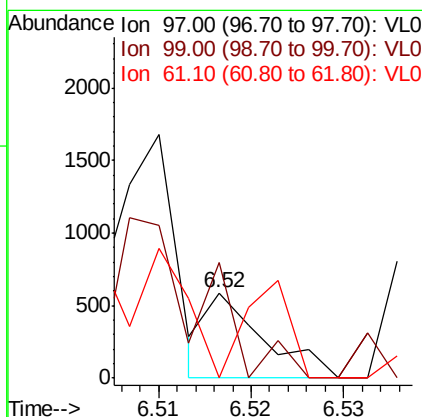
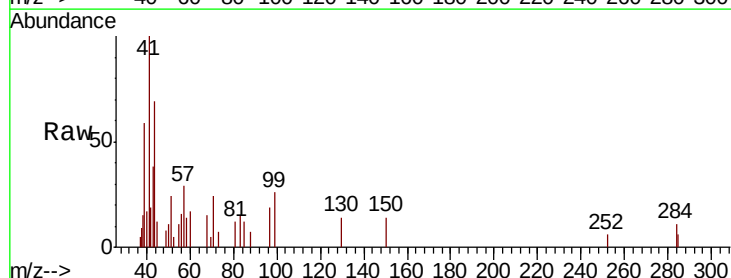
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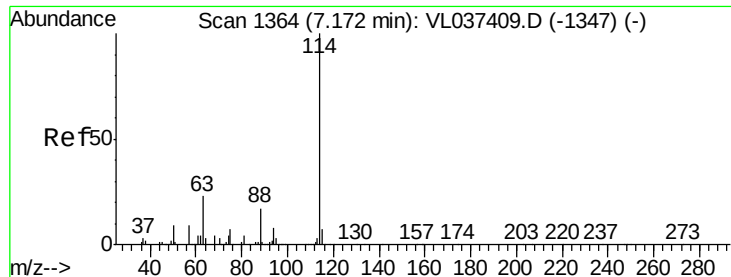


#32

1,1,1-Trichloroethane
 Concen: 0.001 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. 0.01 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion:	97	Resp:	253
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.3	78.5#
61	0.0	40.1	60.1#





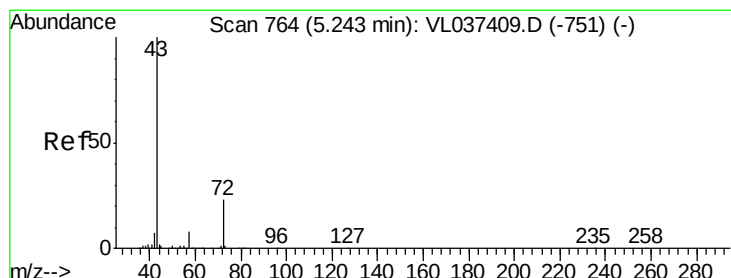
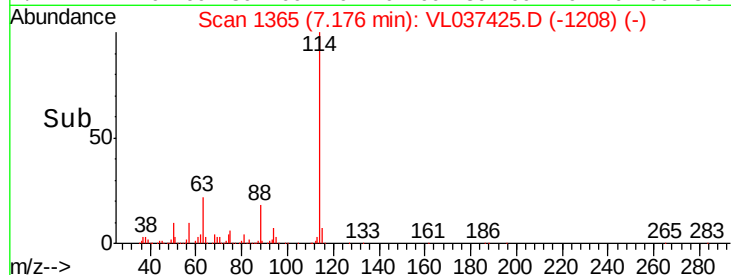
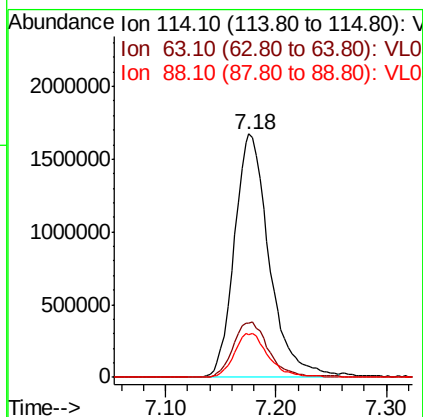
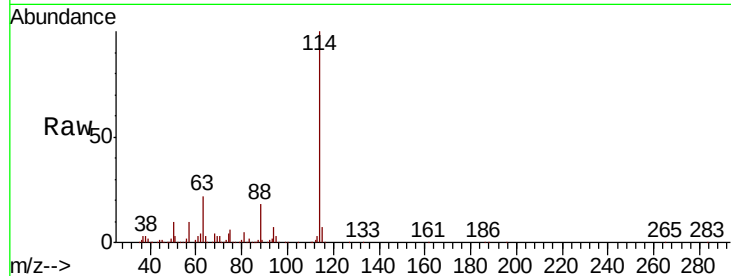
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1RE

Tot Ion:114 Resp: 3664795
 Ion Ratio Lower Upper
 114 100
 63 23.7 19.4 29.2
 88 18.0 14.2 21.4

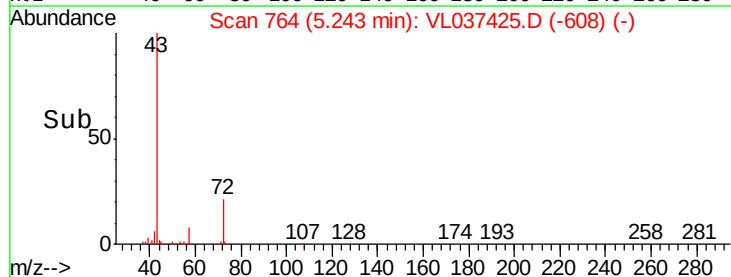
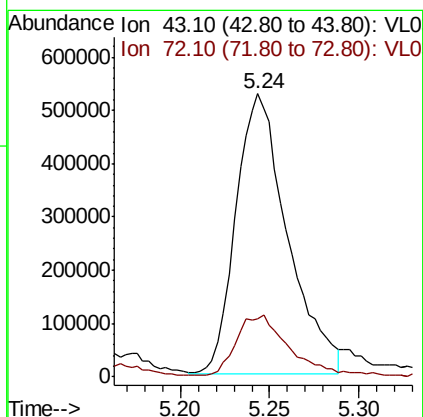
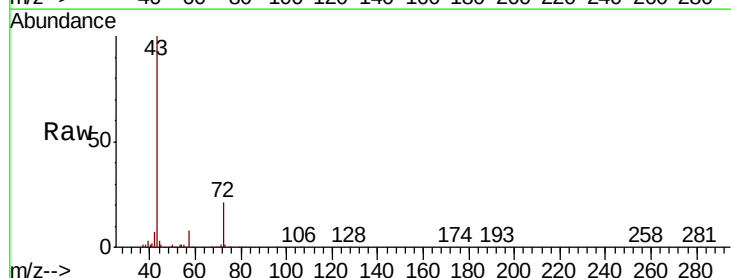
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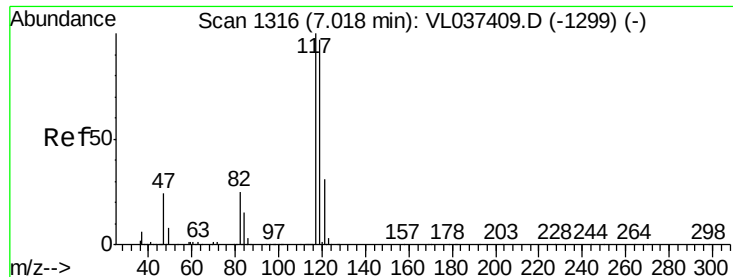
apatel
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#34
 2-Butanone
 Concen: 7.001 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion: 43 Resp: 1059219
 Ion Ratio Lower Upper
 43 100
 72 24.2 17.7 26.5





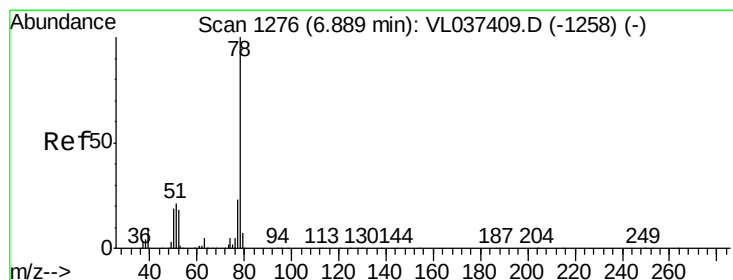
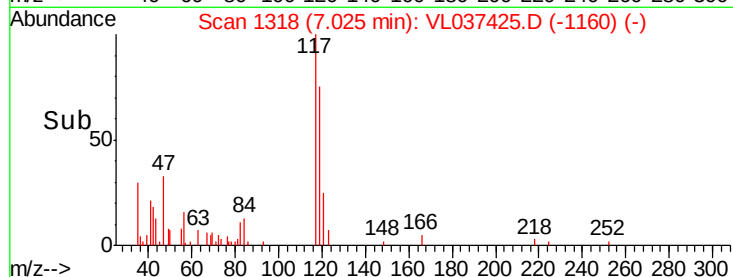
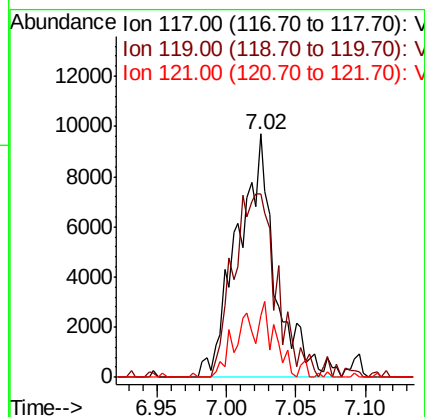
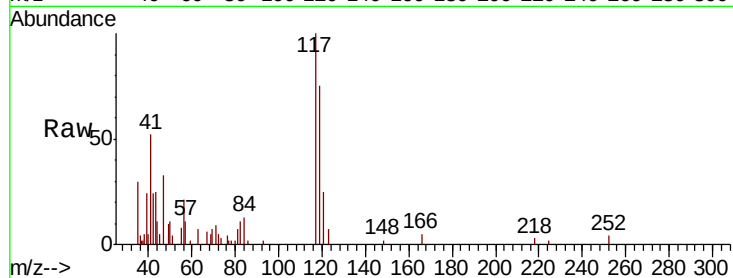
#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Lower	Upper
117	100		
119	75.4	77.5	116.3#
121	25.4	24.7	37.1

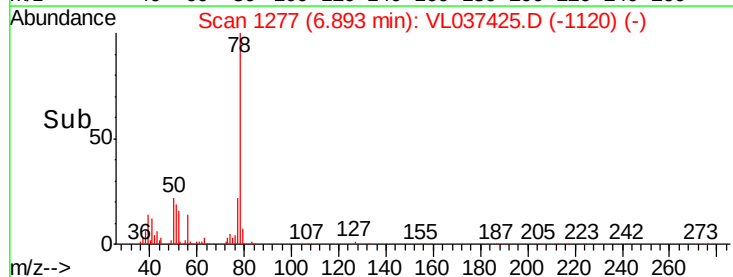
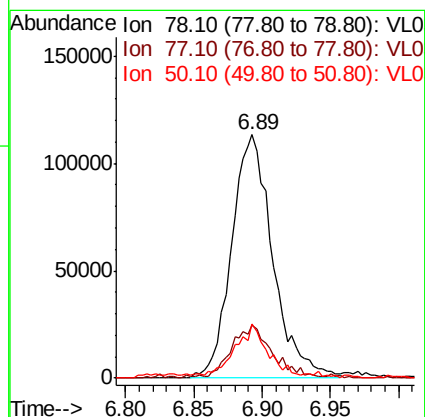
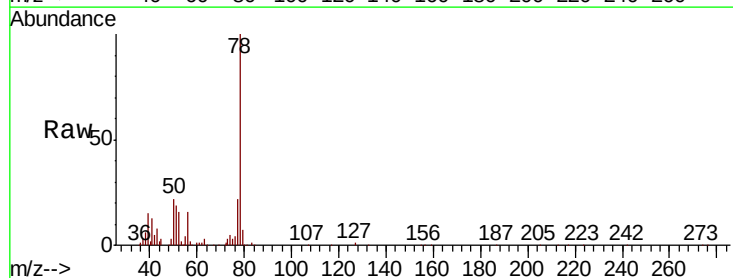
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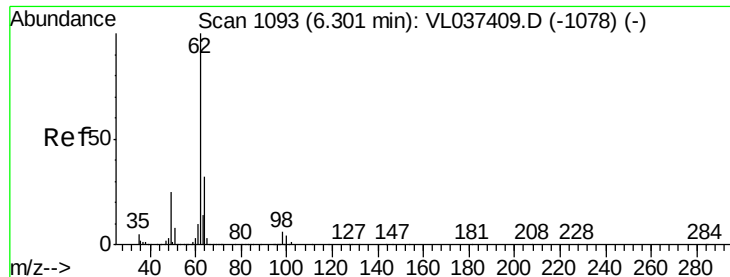
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#36
Benzene
Concen: 0.769 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	18.6	27.8
50	22.3	14.9	22.3





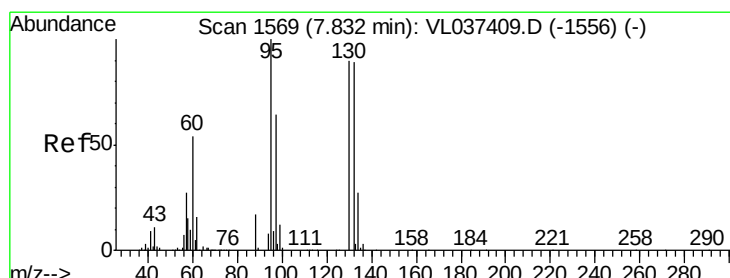
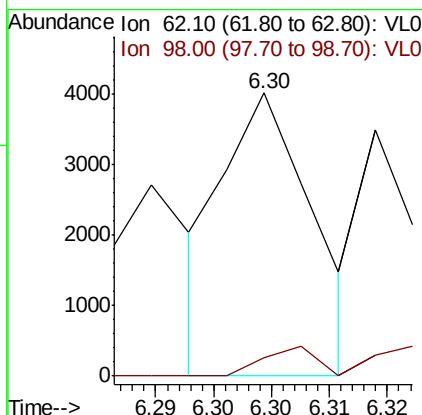
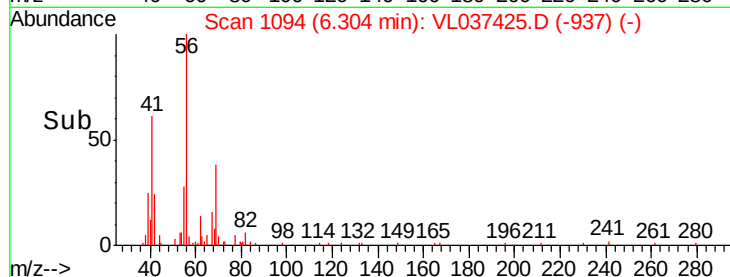
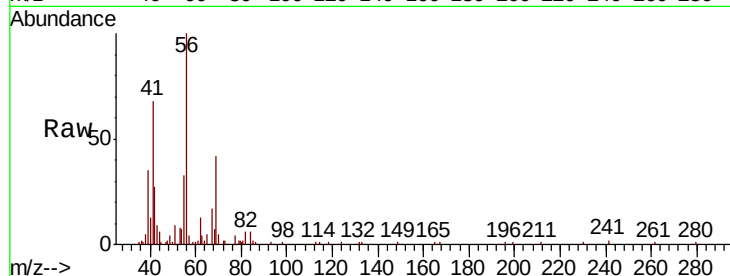
#37
 1,2-Dichloroethane
 Concen: 0.014 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-1RE

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.4	8.2#

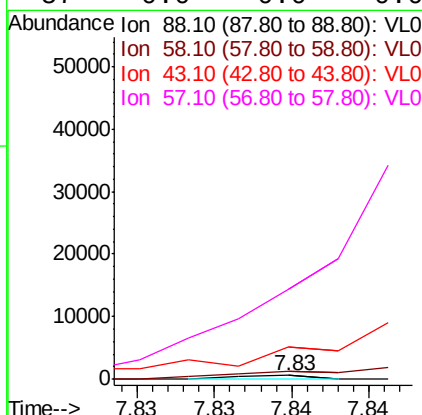
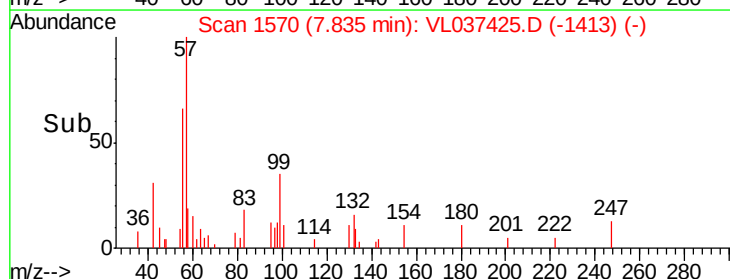
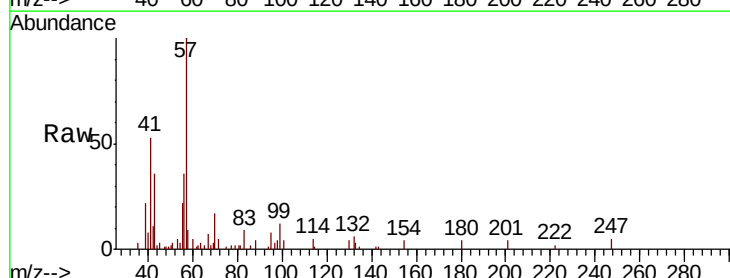
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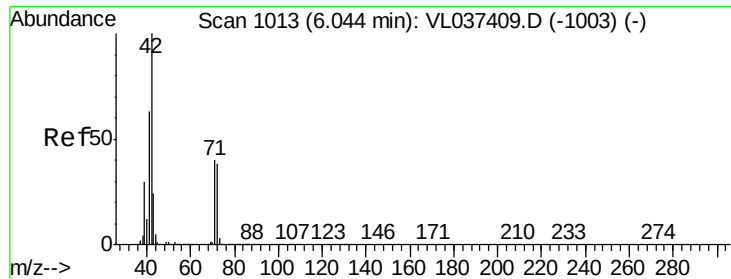
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#40
 1,4-Dioxane
 Concen: 0.006 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0





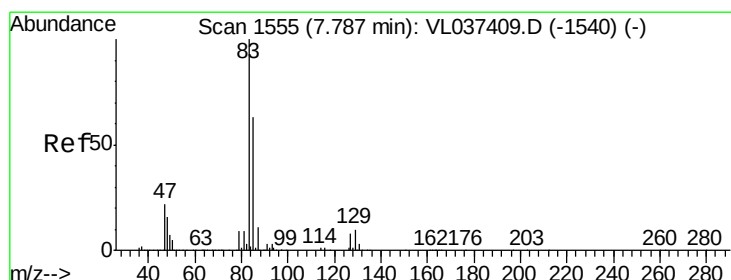
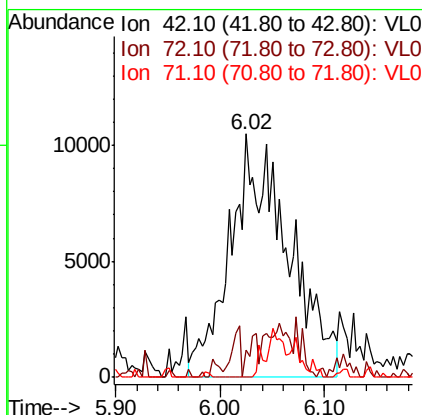
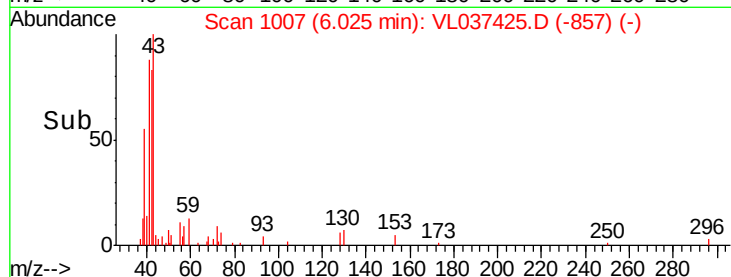
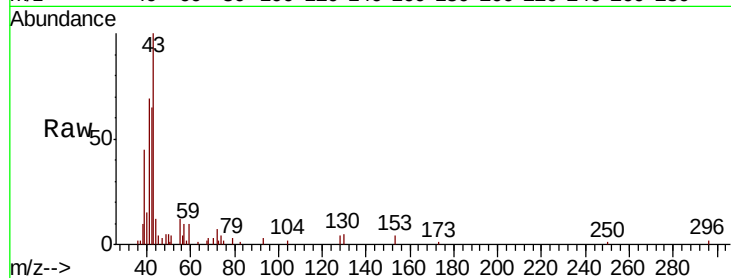
#41
Tetrahydrofuran
Concen: 0.576 ppbv m
RT: 6.02 min Scan# 1007
Delta R.T. -0.02 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.5	50.3#
71	0.0	32.6	48.8#

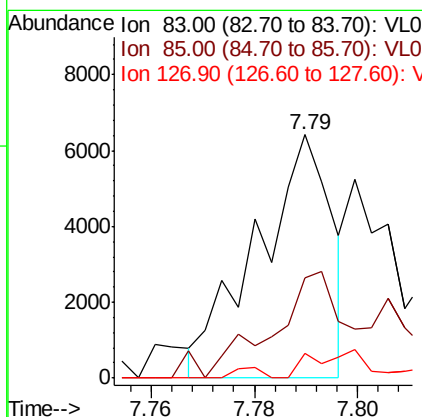
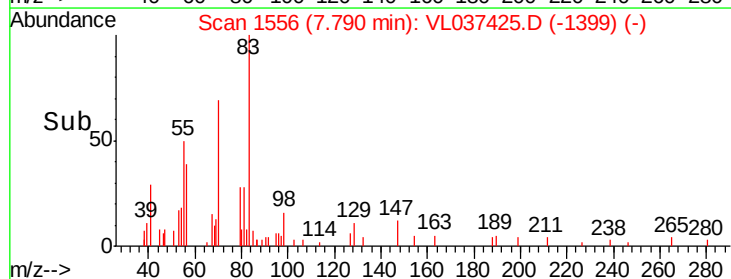
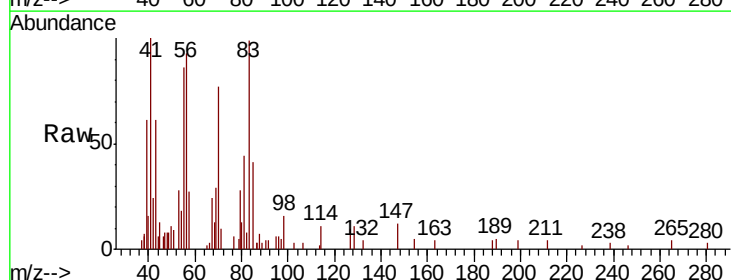
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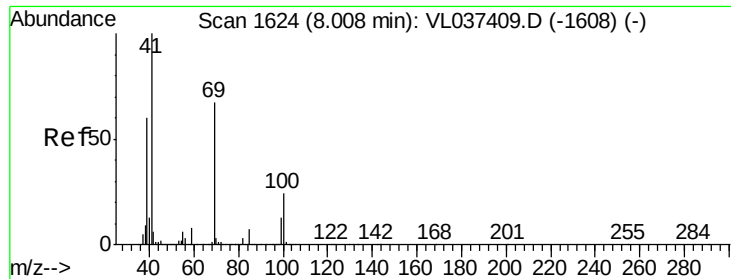
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#42
Bromodichloromethane
Concen: 0.029 ppbv
RT: 7.79 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	33.9	50.2	75.2#
127	11.6	6.6	9.8#





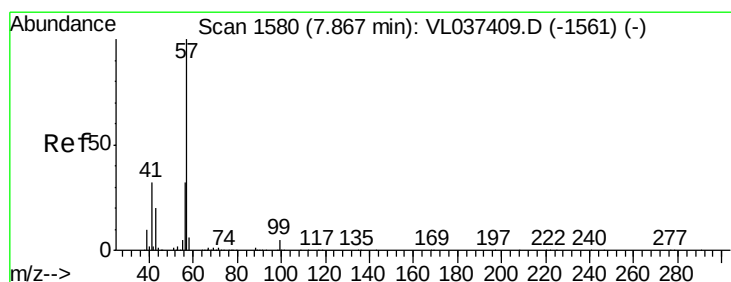
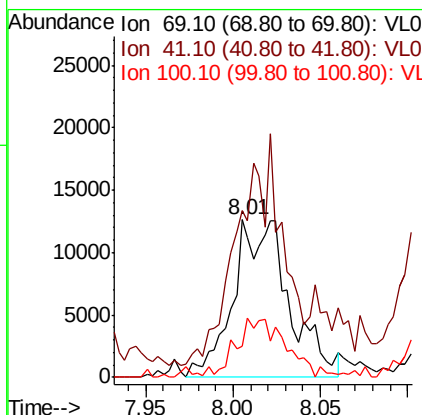
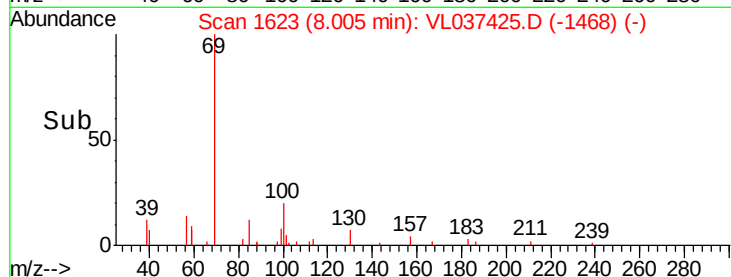
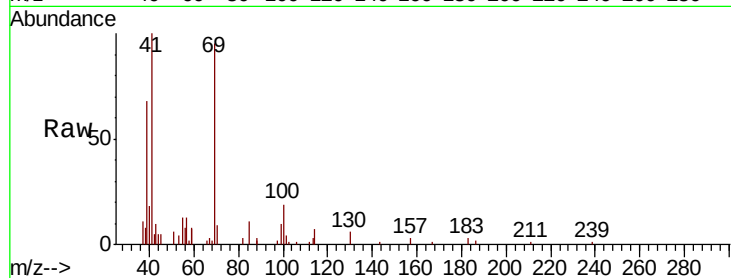
#43
Methyl Methacrylate
Concen: 0.270 ppbv m
RT: 8.01 min Scan# 1623
Delta R.T. -0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.1	177.1#
100	35.4	27.6	41.4

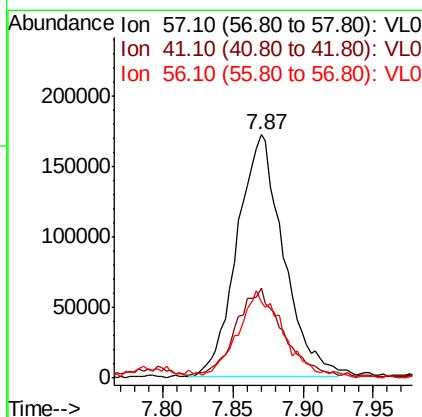
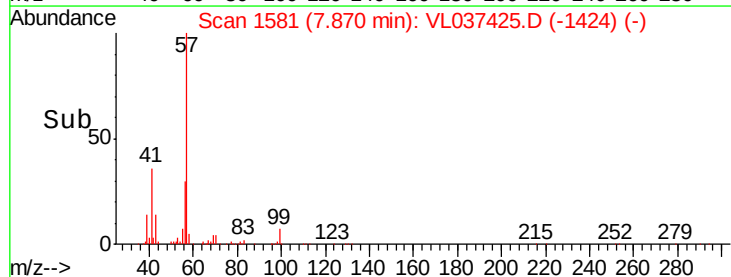
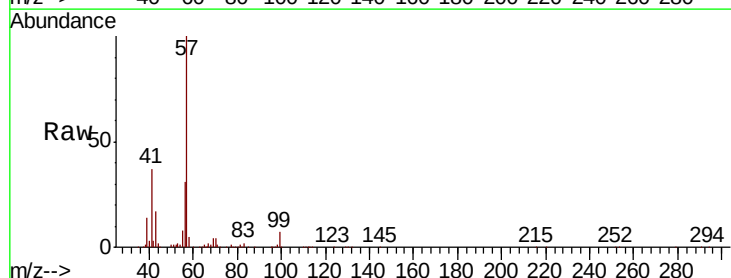
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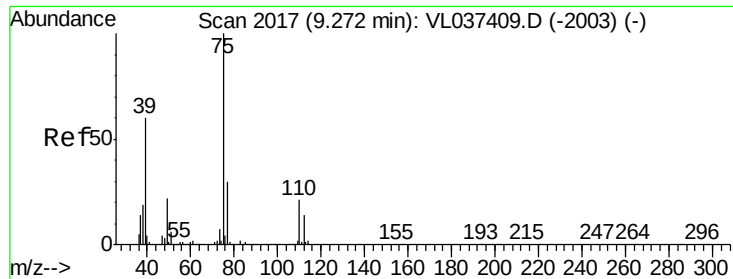
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#44
2,2,4-Trimethylpentane
Concen: 0.764 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	39.3	26.4	39.6
56	35.7	25.0	37.4





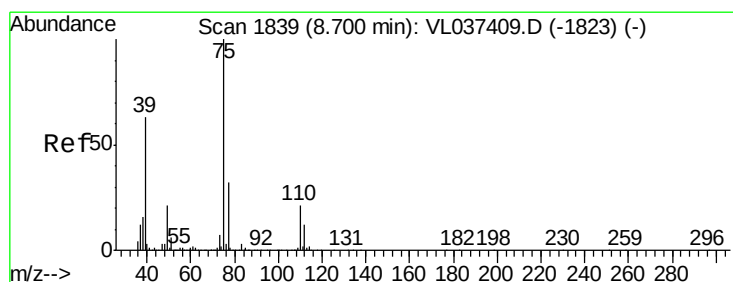
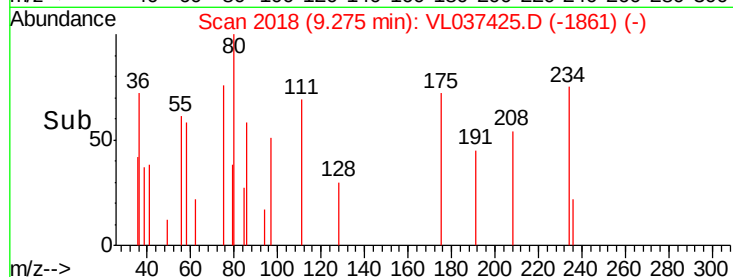
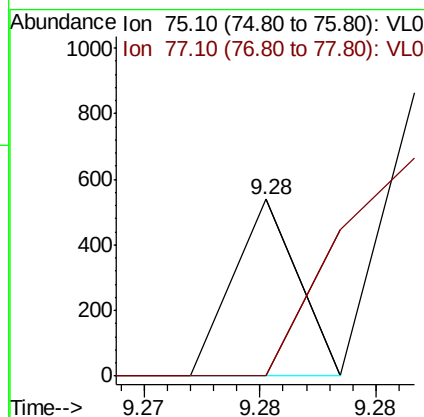
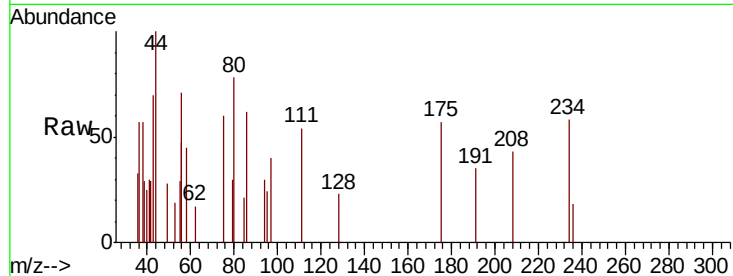
#45
t-1,3-Dichloropropene
Concen: 0.001 ppbv
RT: 9.28 min Scan# 2018
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion: 75 Resp: 104
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#

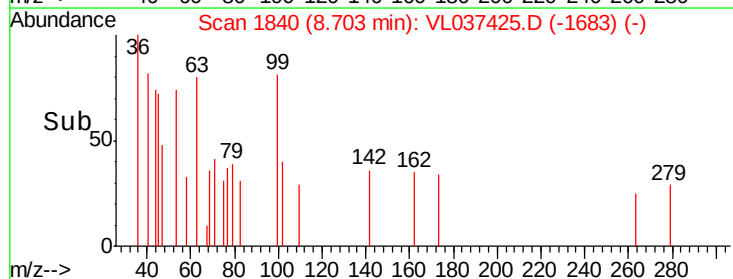
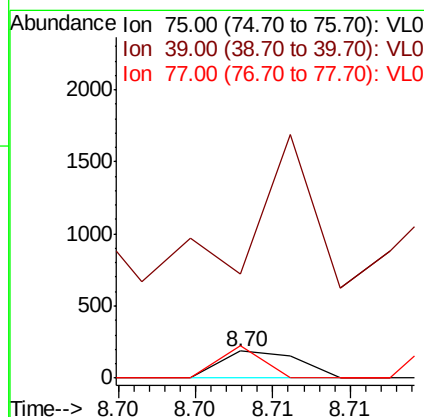
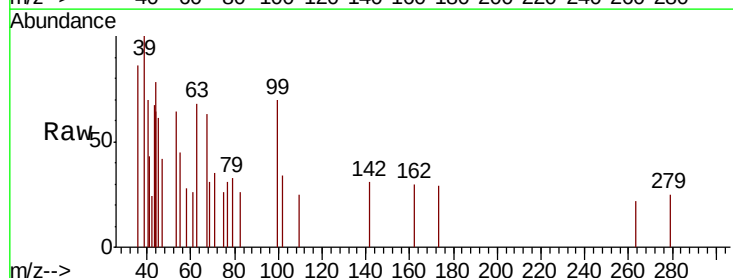
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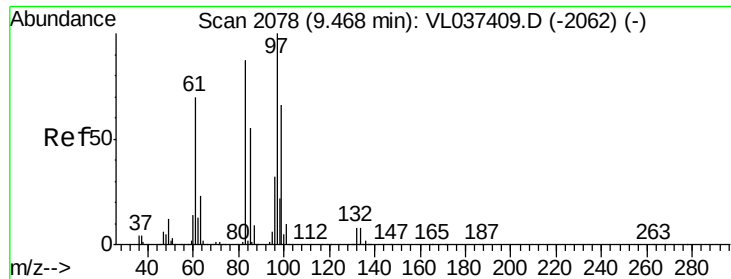
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#46
cis-1,3-Dichloropropene
Concen: 0.001 ppbv
RT: 8.70 min Scan# 1840
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion: 75 Resp: 67
Ion Ratio Lower Upper
75 100
39 50.0 50.1 75.1#
77 120.2 25.8 38.8#





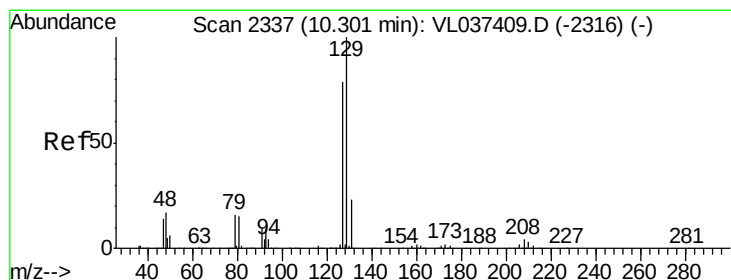
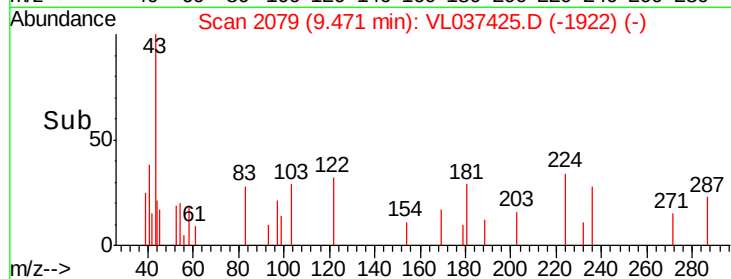
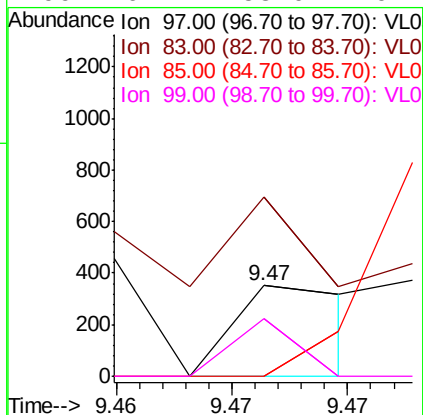
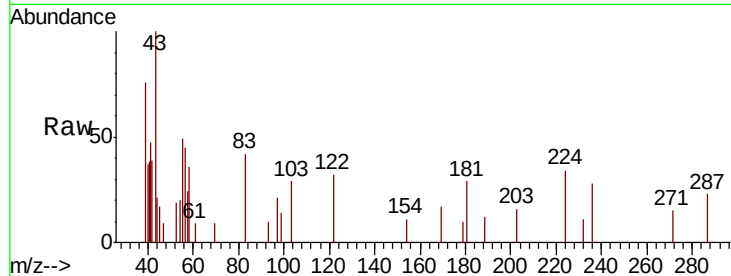
#47
 1,1,2-Trichloroethane
 Concen: 0.001 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	98.3	69.5	104.3	
85	0.0	43.8	65.8#	
99	64.1	53.0	79.4	

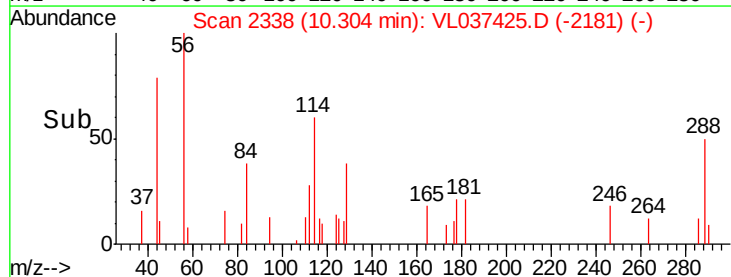
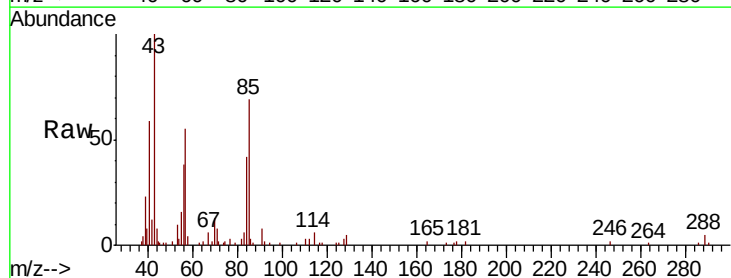
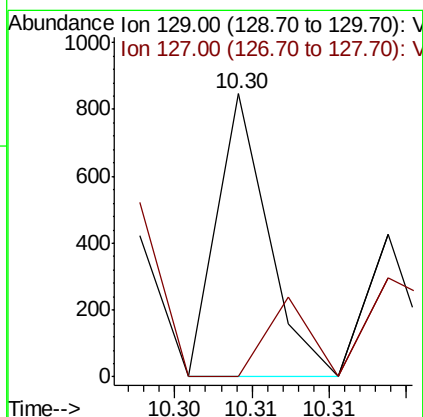
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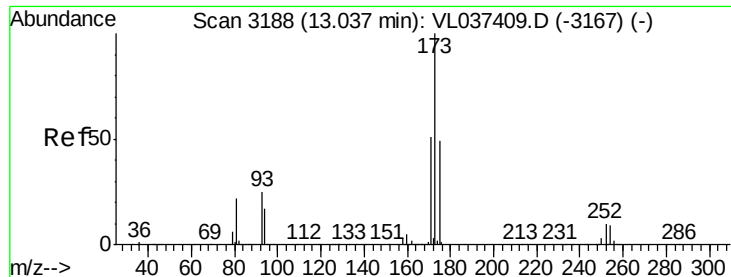
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#48
 Dibromochloromethane
 Concen: 0.001 ppbv
 RT: 10.30 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	0.0	39.6	118.8#	





#49

Bromoform

Concen: 0.001 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. 0.01 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

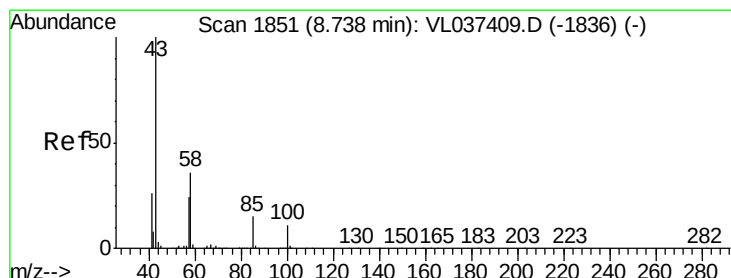
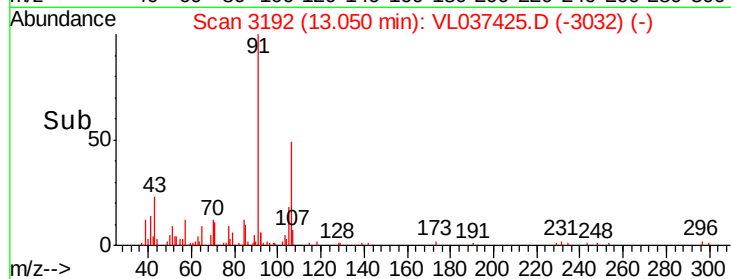
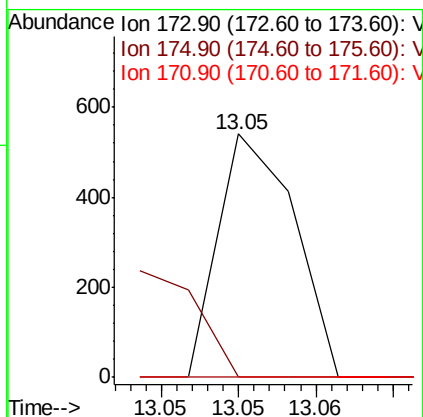
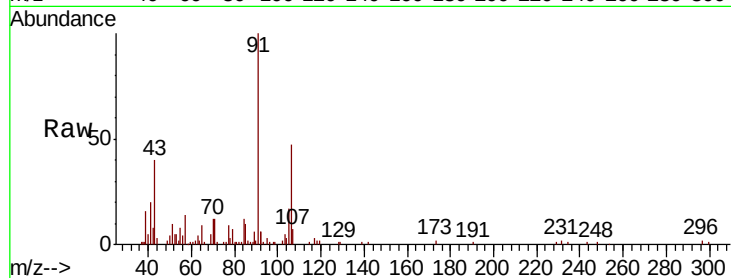
ClientSampled :

IA-1RE

Tot Ion:	173	Resp:	184
Ion Ratio	Lower	Upper	
173	100		
175	45.1	39.9	59.9
171	122.8	41.4	62.2#

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#50

4-Methyl-2-Pentanone

Concen: 0.338 ppbv m

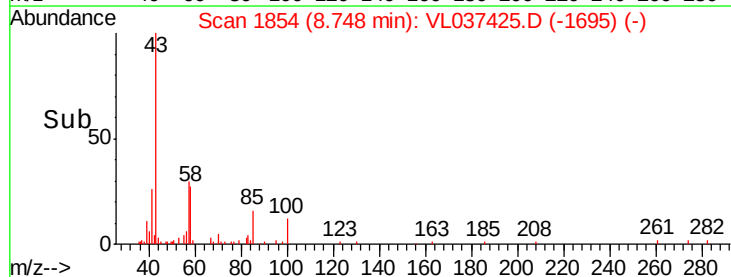
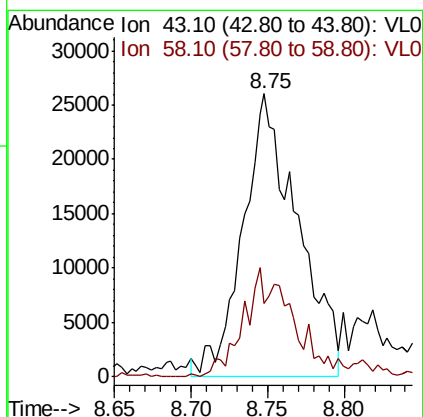
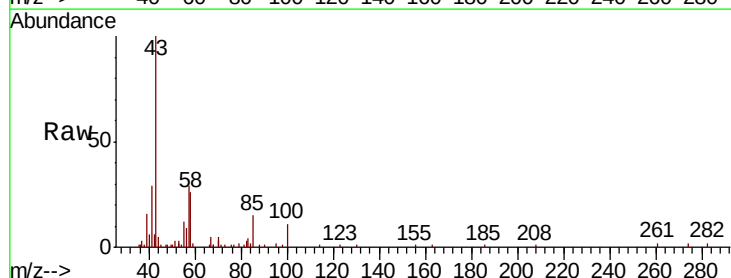
RT: 8.75 min Scan# 1854

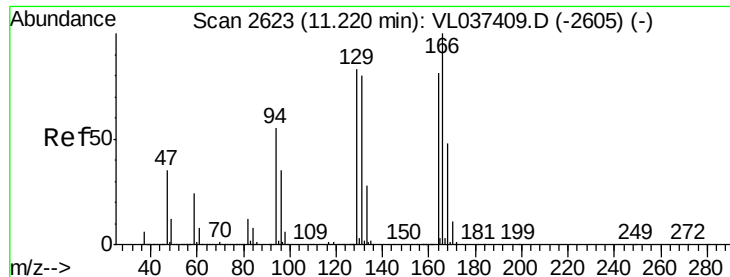
Delta R.T. 0.01 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Tgt Ion:	43	Resp:	64291
Ion Ratio	Lower	Upper	
43	100		
58	34.9	29.9	44.9





#52

Tetrachloroethene

Concen: 0.100 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion:164 Resp: 12969

Ion Ratio Lower Upper

164 100

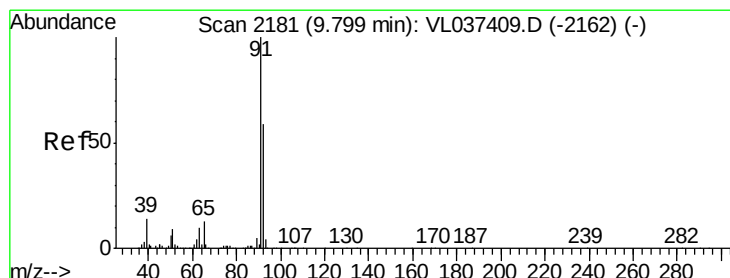
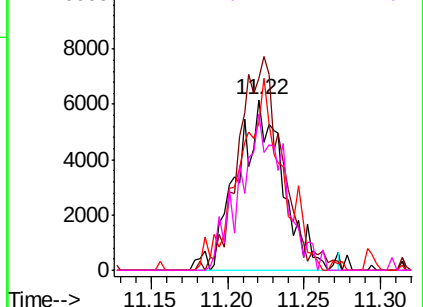
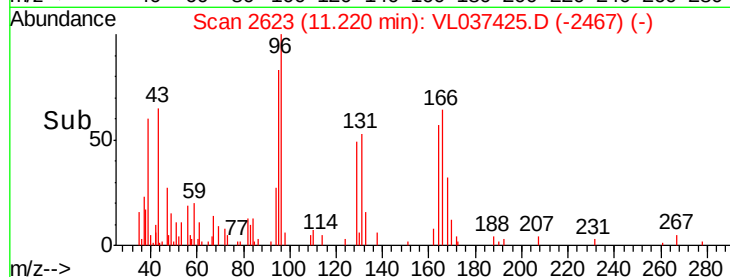
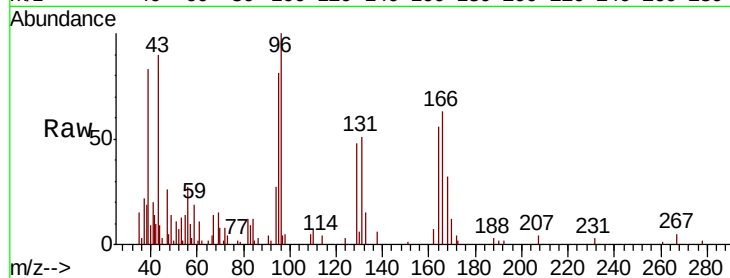
166 112.5 98.6 147.8

129 86.4 82.0 123.0

131 91.9 78.6 117.8

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#53

Toluene

Concen: 13.453 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL037425.D

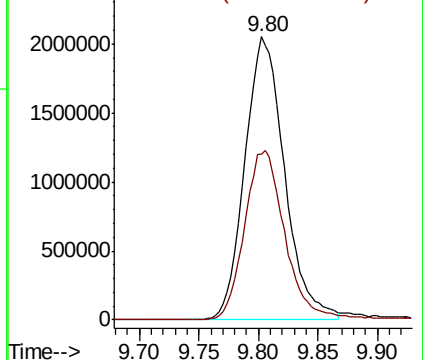
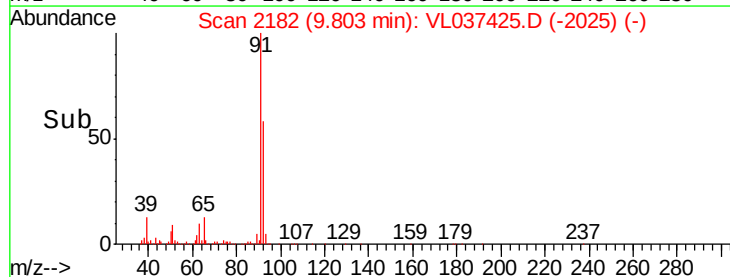
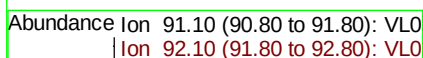
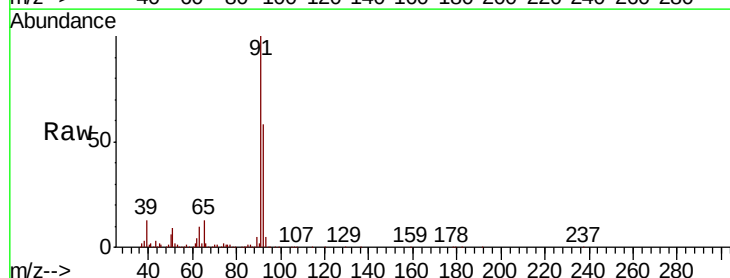
Acq: 12 Aug 2021 22:45

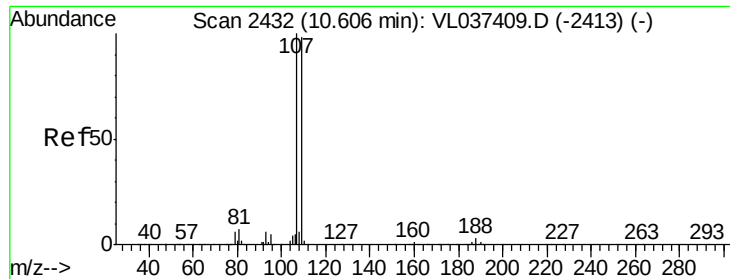
Tgt Ion: 91 Resp: 4746368

Ion Ratio Lower Upper

91 100

92 61.9 49.0 73.6





#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 10.63 min Scan# 2438

Delta R.T. 0.02 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion:107 Resp: 142

Ion Ratio Lower Upper

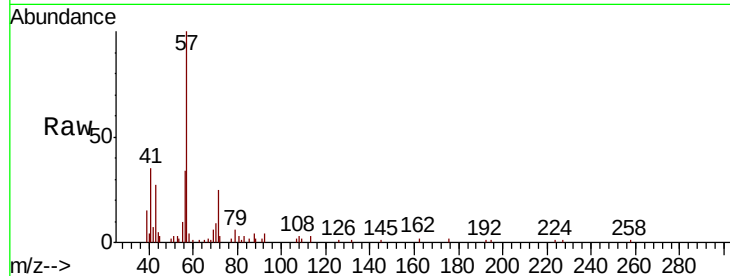
107 100

109 80.9 78.4 117.6

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

600

500

400

300

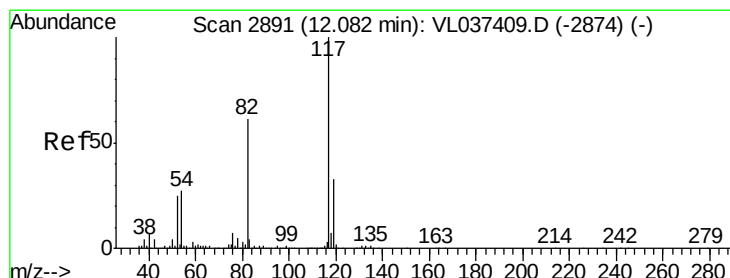
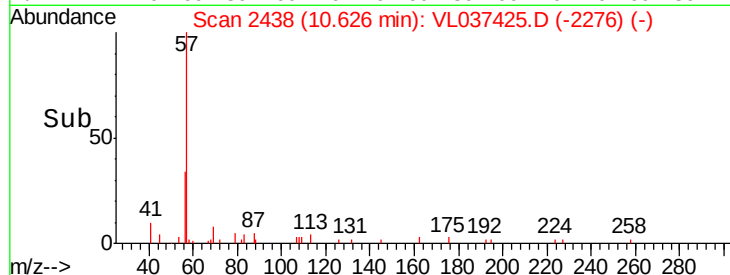
200

100

0

10.62 10.62 10.63 10.63

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

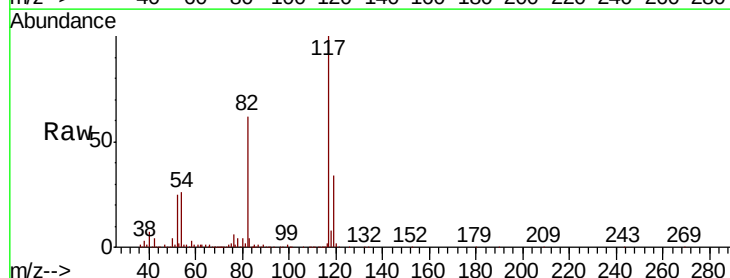
Tgt Ion:117 Resp: 3049478

Ion Ratio Lower Upper

117 100

82 68.6 53.1 79.7

119 36.6 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1500000

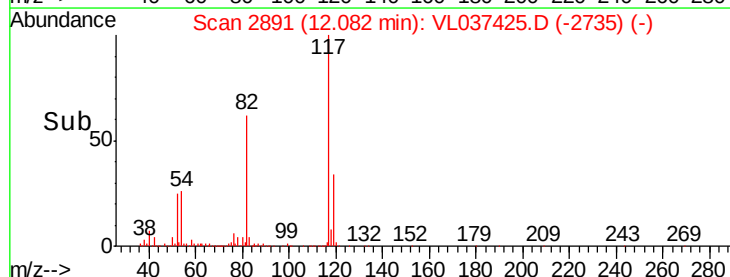
1000000

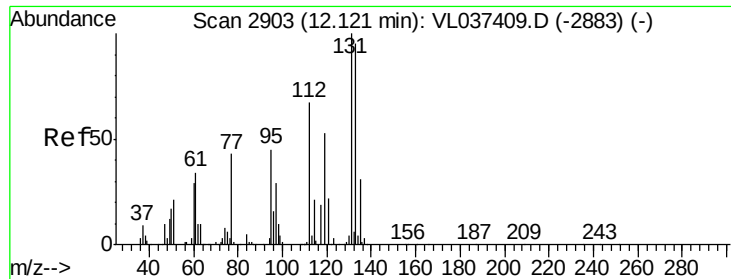
500000

0

12.00 12.10

Time-->





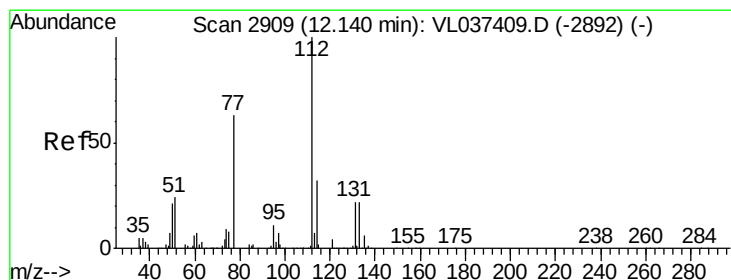
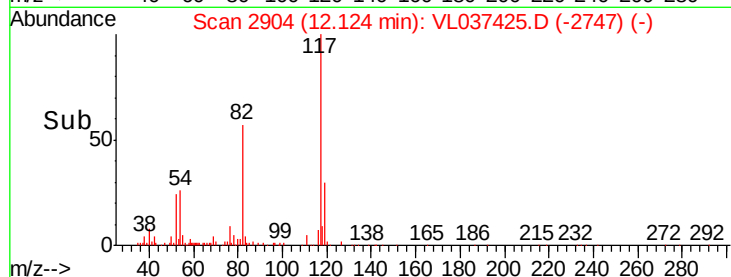
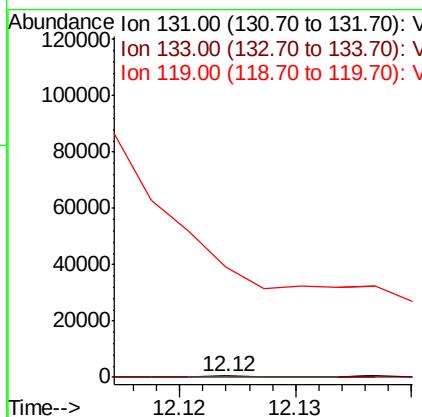
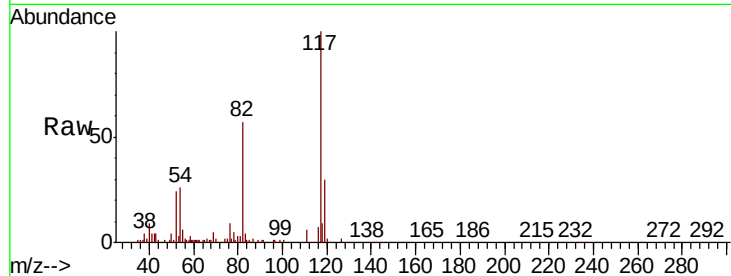
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.001 ppbv
 RT: 12.12 min Scan# 2904
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion:131 Resp: 176
 Ion Ratio Lower Upper
 131 100
 133 0.0 77.1 115.7#
 119 628333.0 59.7 89

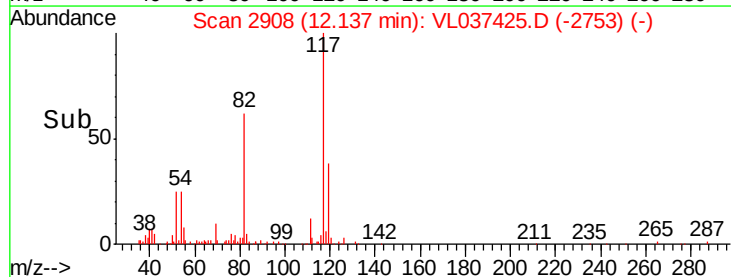
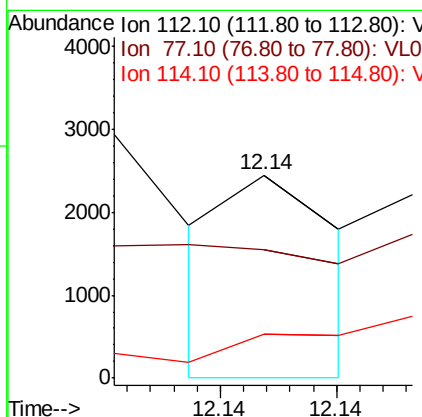
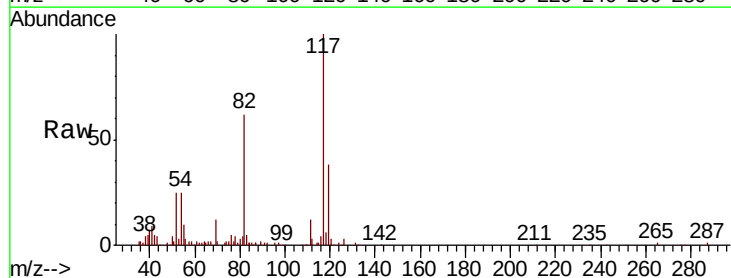
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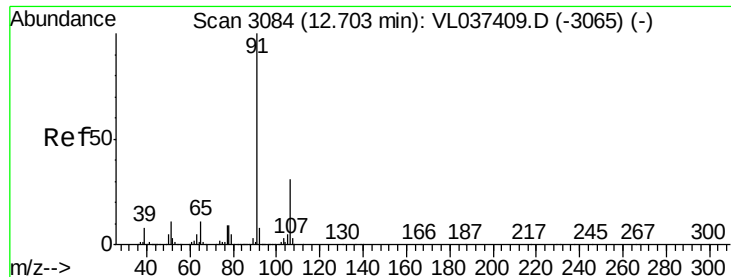
apatel
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#57
 Chlorobenzene
 Concen: 0.003 ppbv
 RT: 12.14 min Scan# 2908
 Delta R.T. -0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion:112 Resp: 816
 Ion Ratio Lower Upper
 112 100
 77 27.5 50.0 75.0#
 114 2.3 28.5 34.9#





#58

Ethyl Benzene

Concen: 1.174 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampleId :

IA-1RE

Tot Ion: 91 Resp: 485800

Ion Ratio Lower Upper

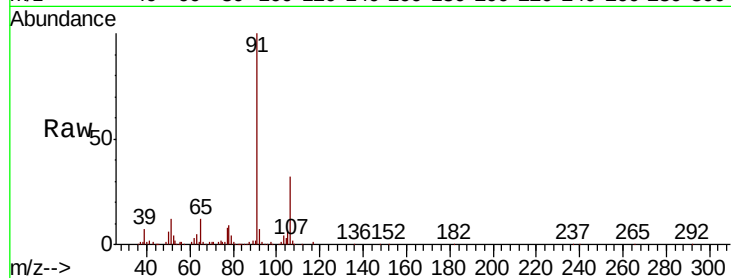
91 100

106 31.6 24.7 37.1

Manual Integrations
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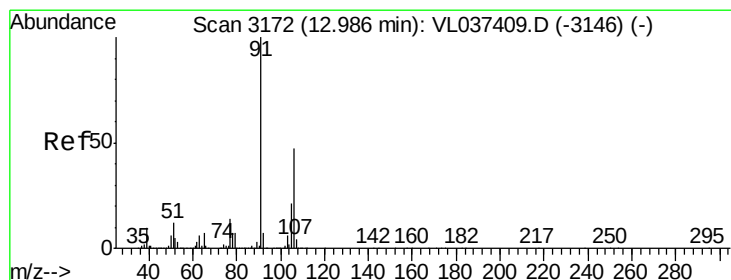
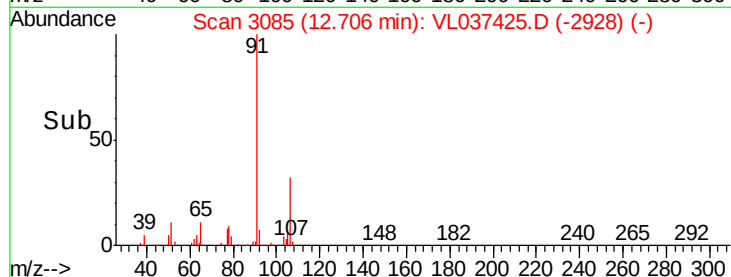
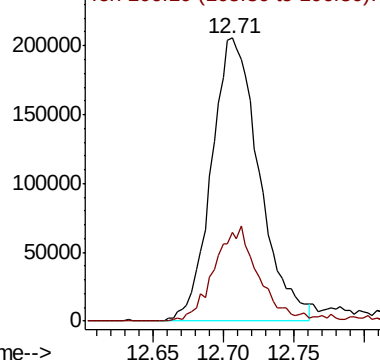
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 4.343 ppbv m

RT: 12.96 min Scan# 3164

Delta R.T. -0.03 min

Lab File: VL037425.D

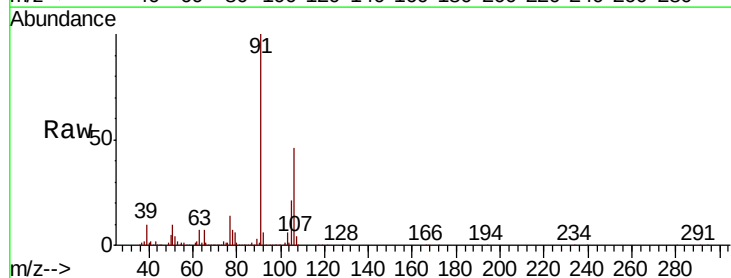
Acq: 12 Aug 2021 22:45

Tgt Ion: 91 Resp: 1578247

Ion Ratio Lower Upper

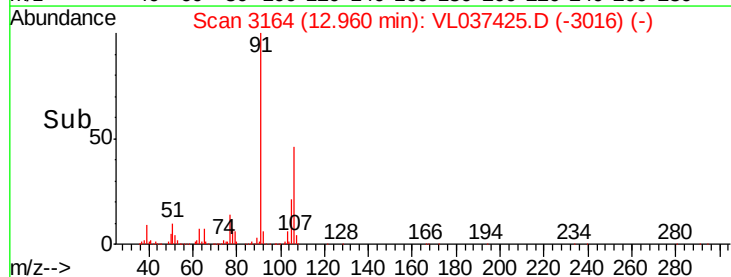
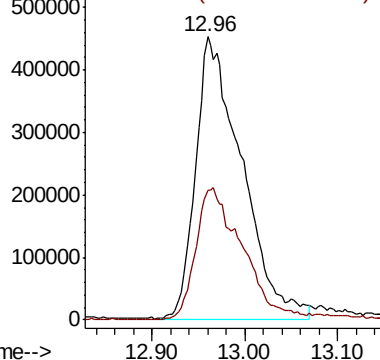
91 100

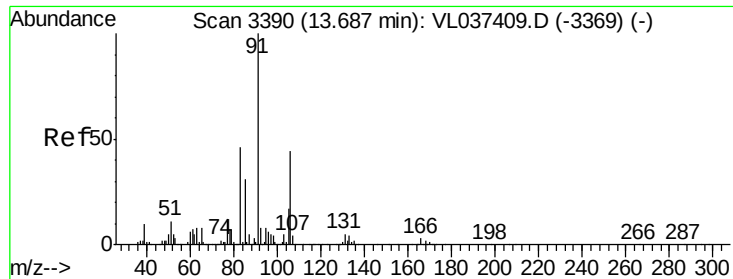
106 48.2 36.6 54.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





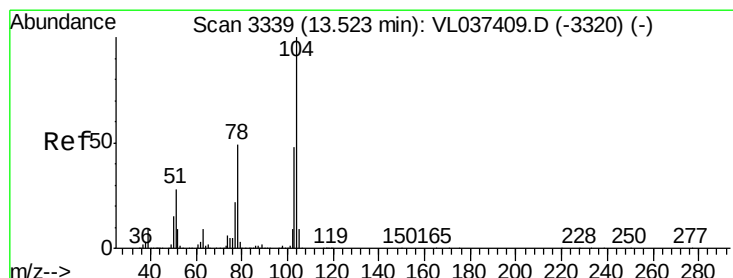
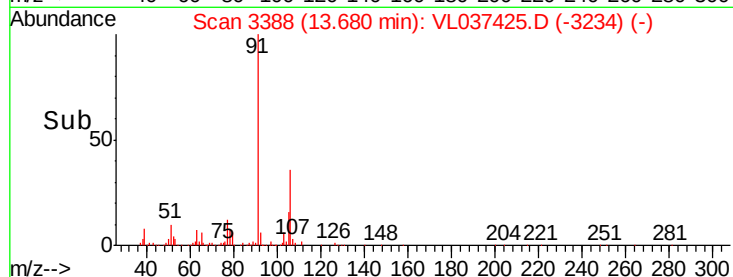
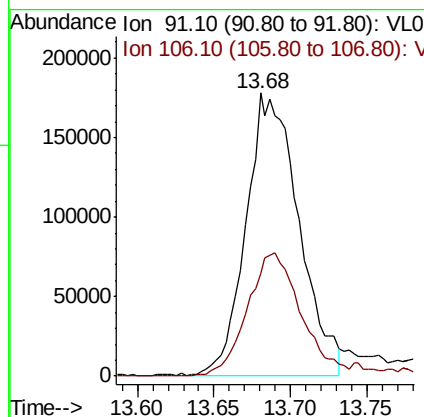
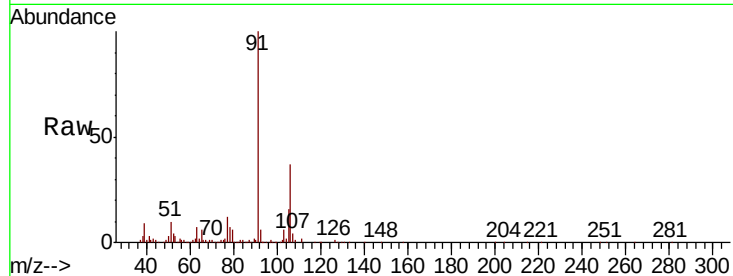
#60
o-Xylene
Concen: 1.265 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Lower	Upper
91	100		
106	46.1	24.1	72.2

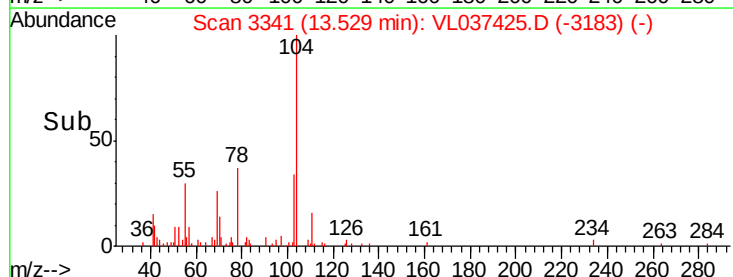
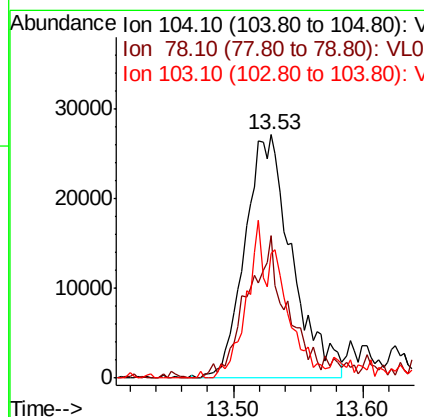
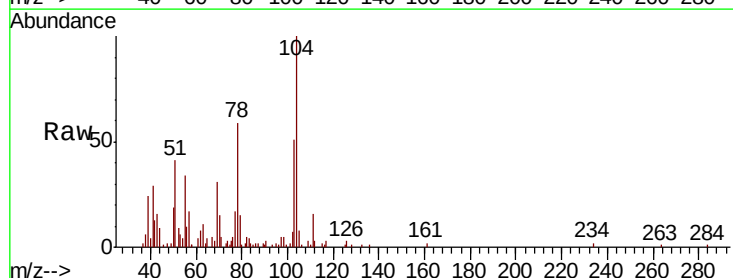
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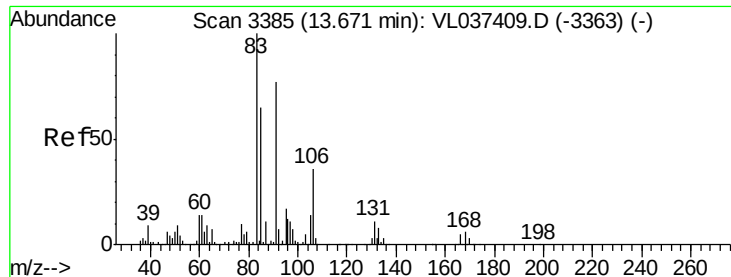
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#61
Styrene
Concen: 0.400 ppbv m
RT: 13.53 min Scan# 3341
Delta R.T. 0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
104	100		
78	0.0	41.5	62.3#
103	52.8	40.2	60.2





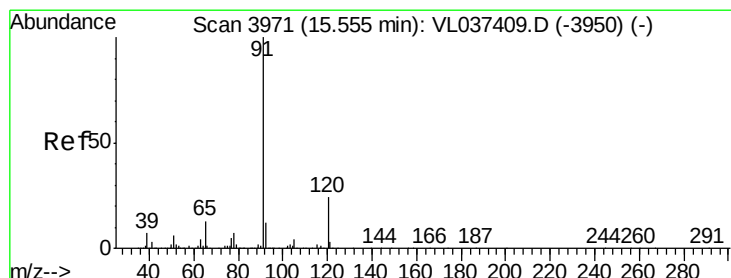
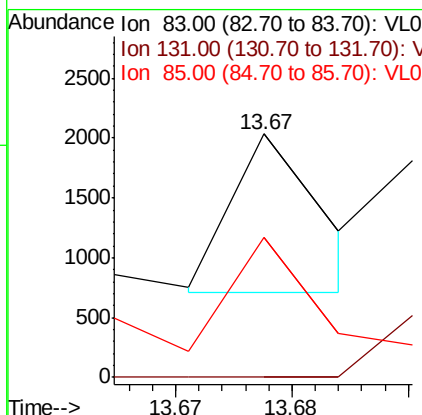
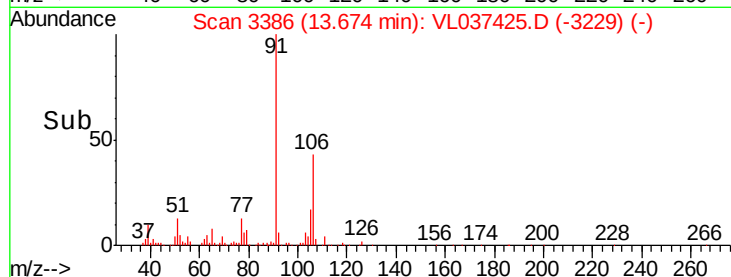
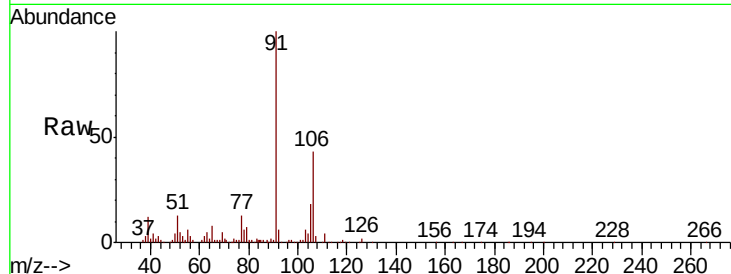
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.001 ppbv
 RT: 13.67 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.1	15.4#
85	0.0	33.4	100.2#

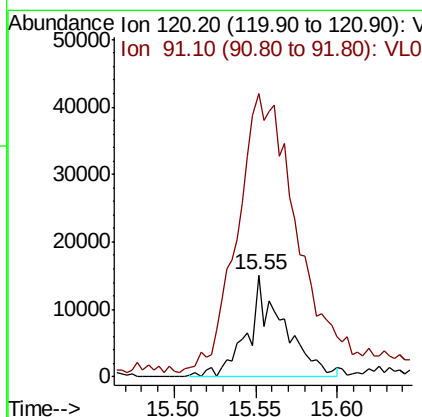
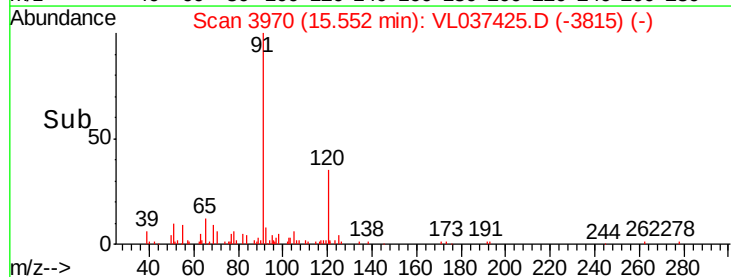
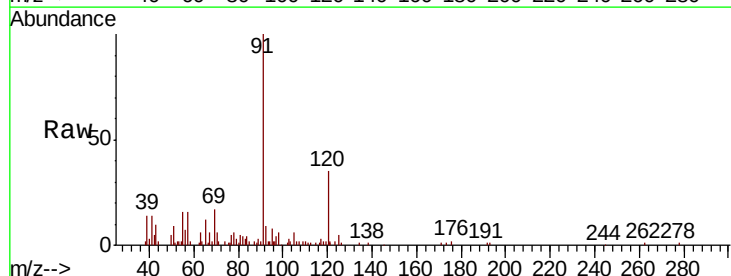
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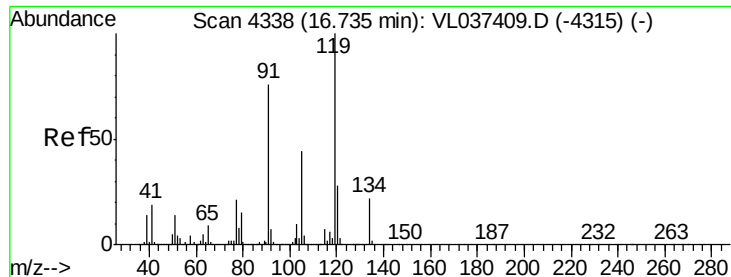
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#64
 n-propylbenzene
 Concen: 0.192 ppbv m
 RT: 15.55 min Scan# 3970
 Delta R.T. -0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
120	100		
91	0.0	388.4	582.6#





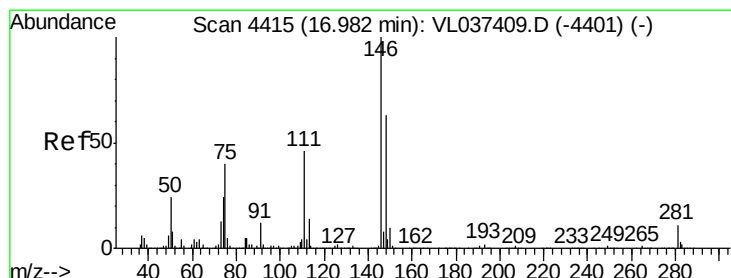
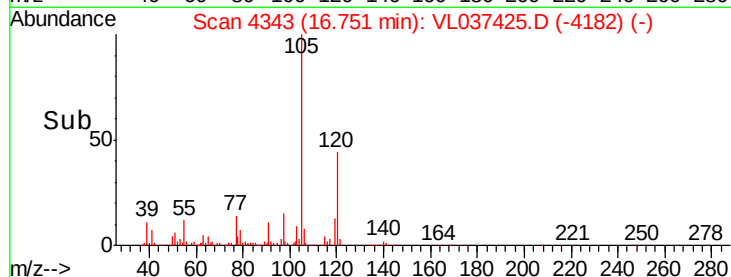
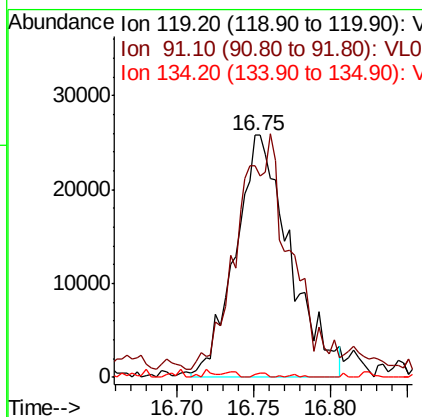
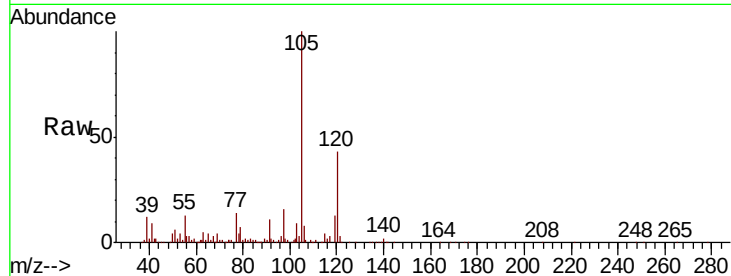
#65
tert-Butylbenzene
Concen: 0.146 ppbv m
RT: 16.75 min Scan# 4343
Delta R.T. 0.02 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Resp	Lower	Upper
119	100	63631		
91	0.0	62.2	93.4#	
134	1.2	16.1	24.1#	

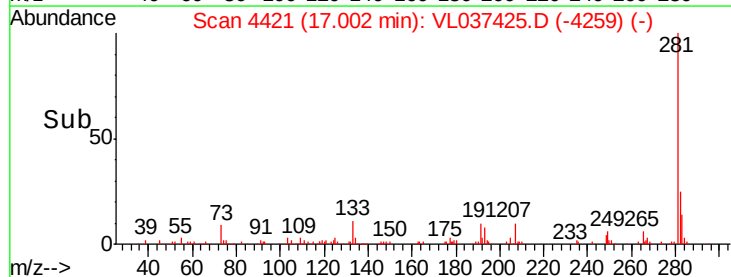
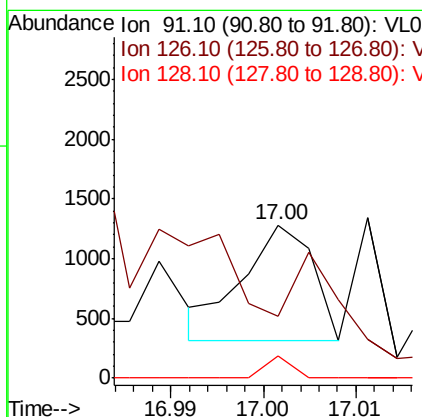
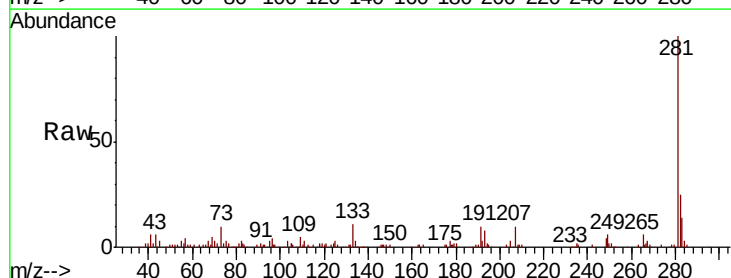
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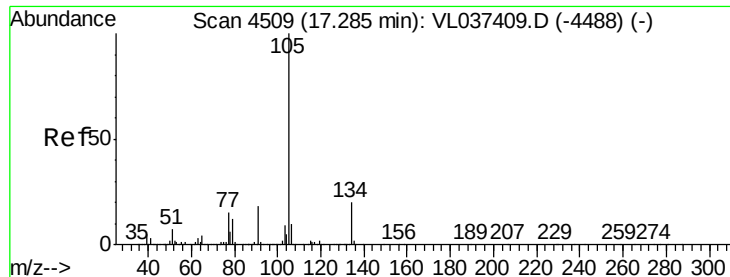
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#66
Benzyl Chloride
Concen: 0.025 ppbv
RT: 17.00 min Scan# 4421
Delta R.T. 0.02 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	505		
126	850.5	14.3	21.5#	
128	0.0	4.6	7.0#	





#67

sec-Butylbenzene

Concen: 0.006 ppbv

RT: 17.29 min Scan# 4510

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion: 105 Resp: 3675

Ion Ratio Lower Upper

105 100

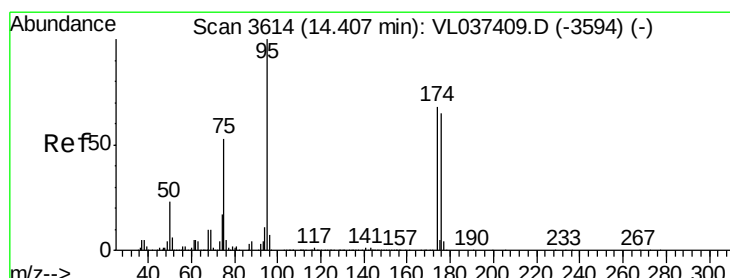
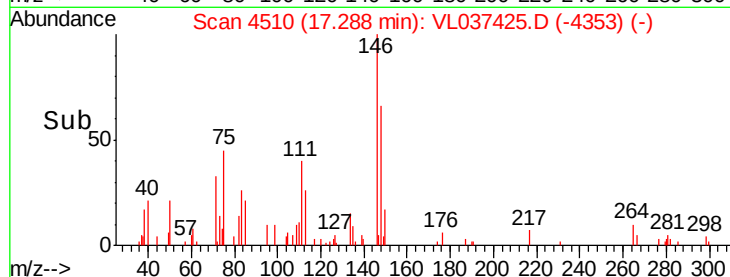
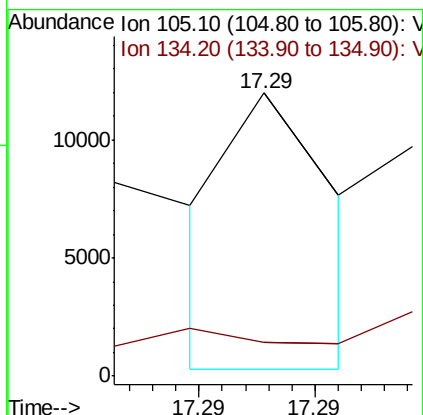
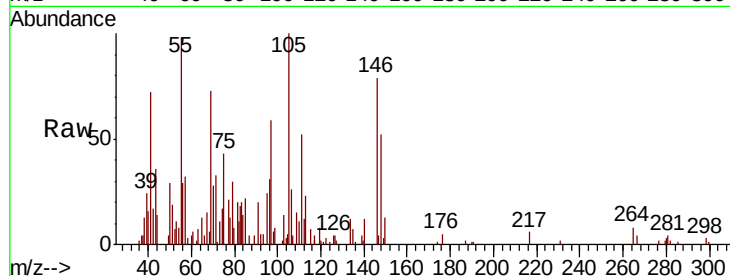
134 0.0 15.4 23.0#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.970 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

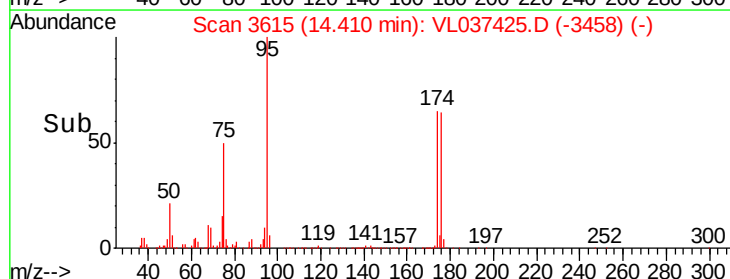
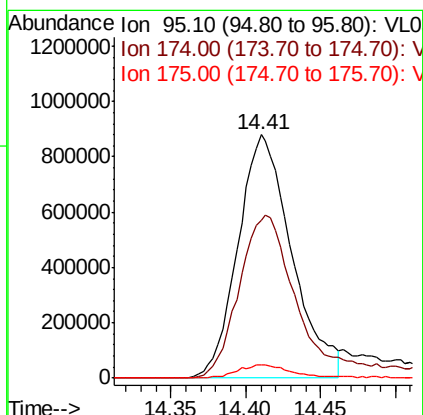
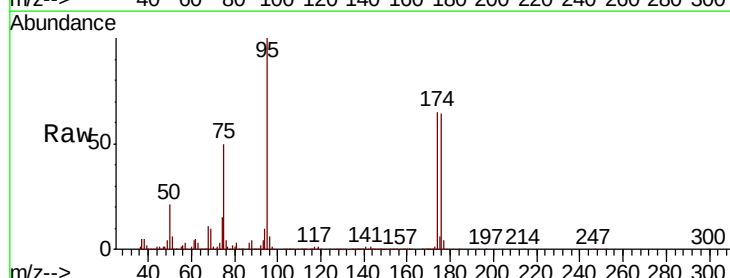
Tgt Ion: 95 Resp: 2181068

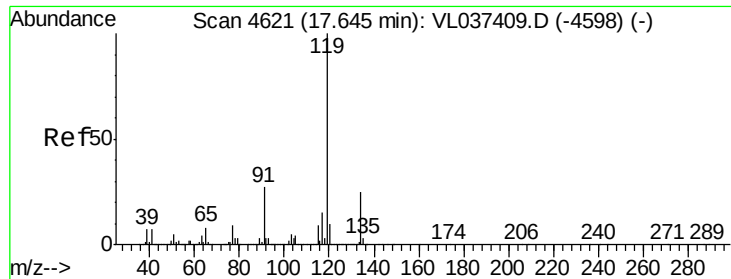
Ion Ratio Lower Upper

95 100

174 79.9 59.6 89.4

175 6.0 4.3 6.5





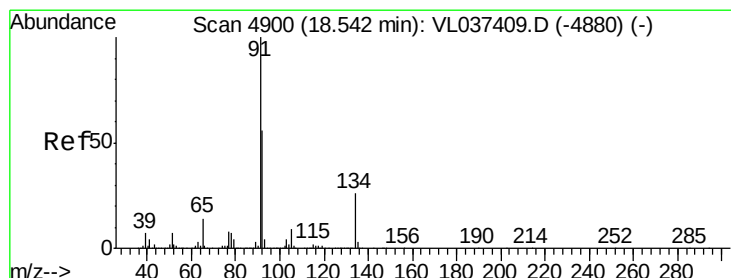
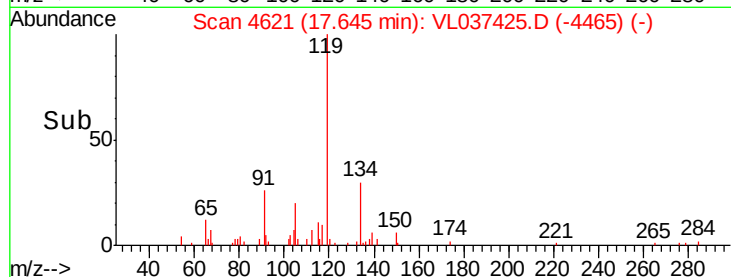
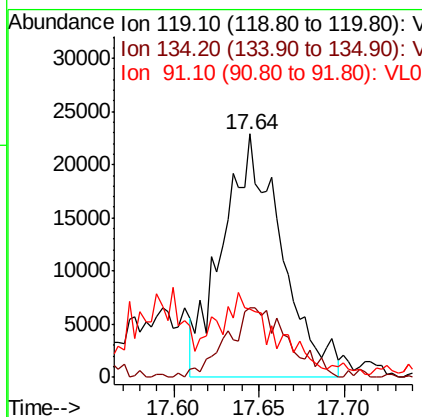
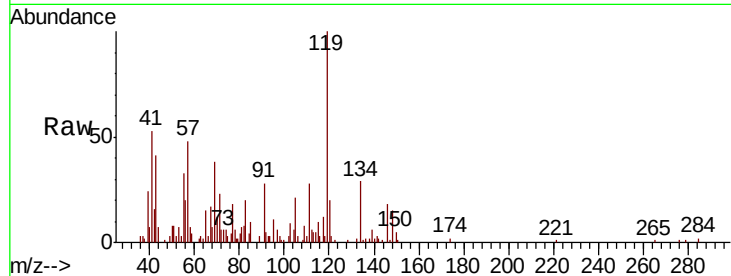
#69
 p-Isopropyltoluene
 Concen: 0.113 ppbv m
 RT: 17.64 min Scan# 4621
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1RE

Tot Ion	Ratio	Resp	Lower	Upper
119	100	54799		
134	30.9		20.6	31.0
91	0.0		22.4	33.6#

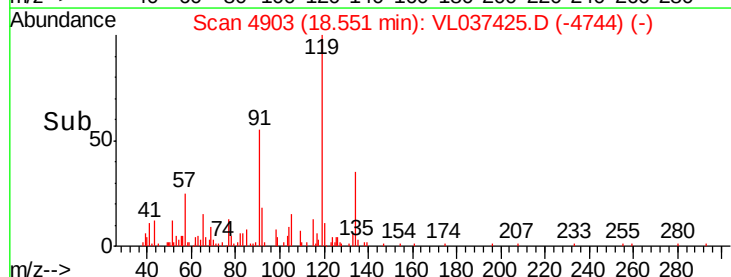
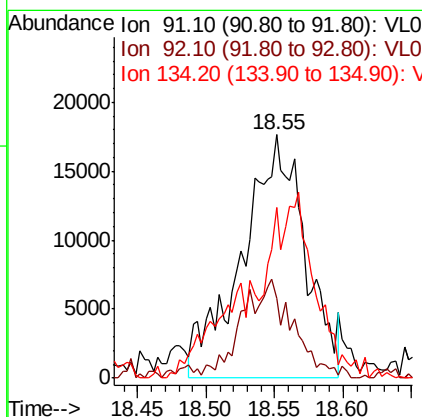
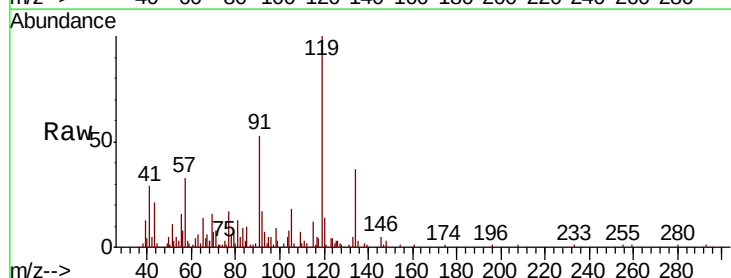
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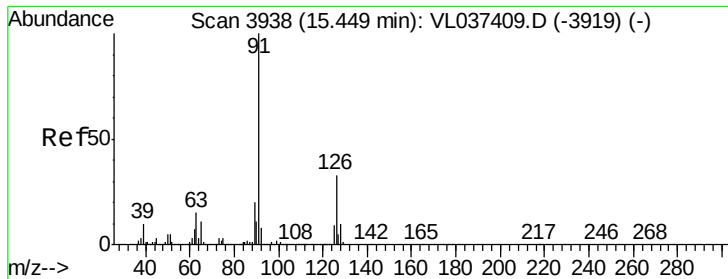
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#70
 n-Butylbenzene
 Concen: 0.125 ppbv m
 RT: 18.55 min Scan# 4903
 Delta R.T. 0.01 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	56289		
92	0.0		44.2	66.2#
134	0.0		19.5	29.3#





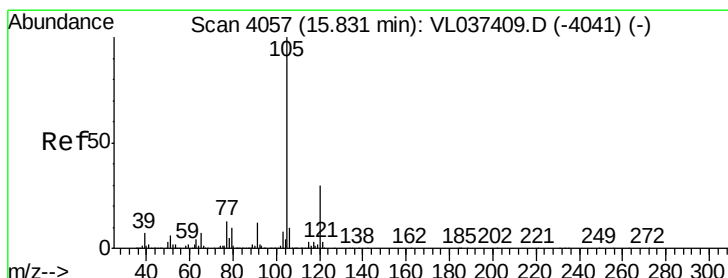
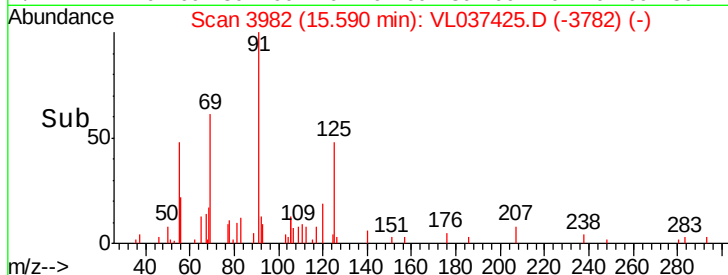
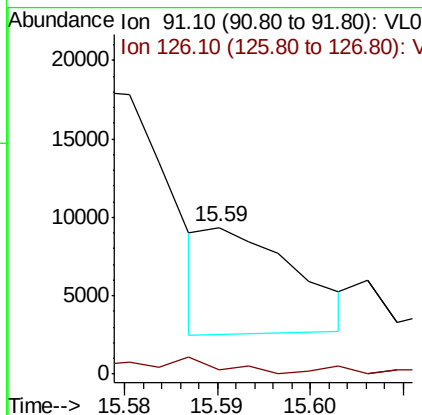
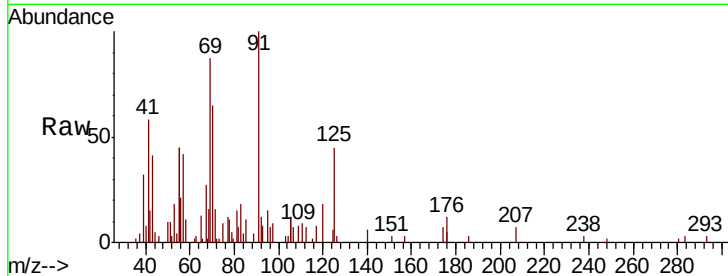
#71
 2-Chlorotoluene
 Concen: 0.013 ppbv
 RT: 15.59 min Scan# 3982
 Delta R.T. 0.14 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion: 91 Resp: 4570
 Ion Ratio Lower Upper
 91 100
 126 39.9 13.5 53.9

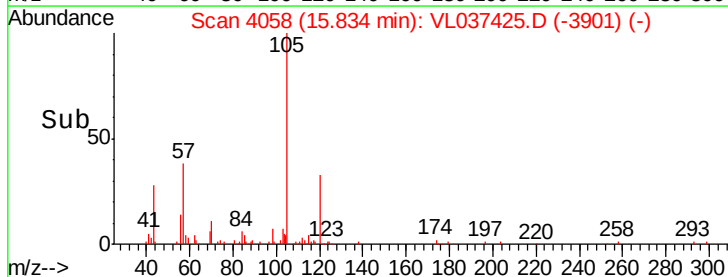
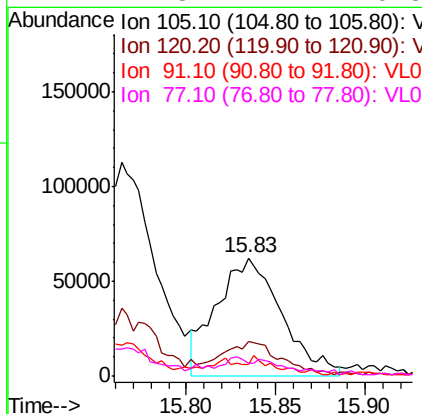
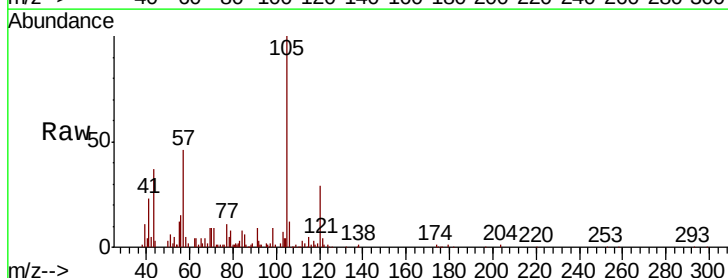
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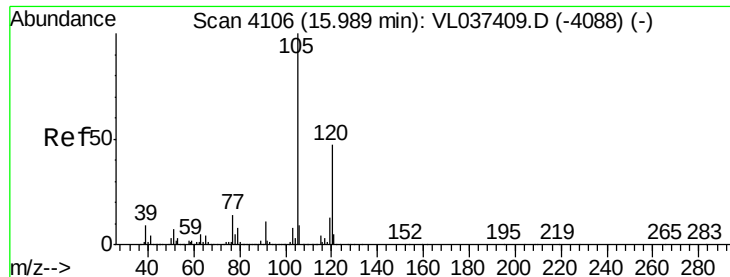
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#72
 4-Ethyltoluene
 Concen: 0.404 ppbv m
 RT: 15.83 min Scan# 4058
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion: 105 Resp: 158437
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.0 37.4#
 91 0.0 11.2 16.8#
 77 17.8 11.2 16.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.425 ppbv

RT: 16.00 min Scan# 4108

Delta R.T. 0.01 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Instrument :

MSVOA_L

ClientSampled :

IA-1RE

Tot Ion:105 Resp: 157430

Ion Ratio Lower Upper

105 100

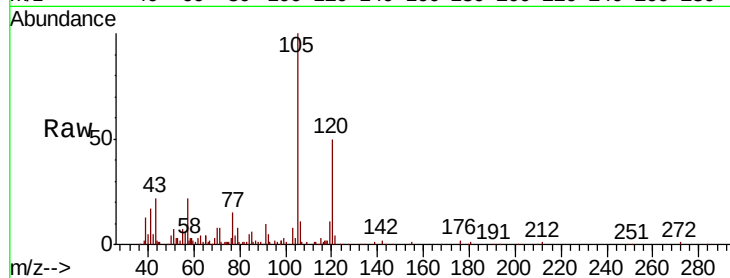
120 48.1 37.4 56.0

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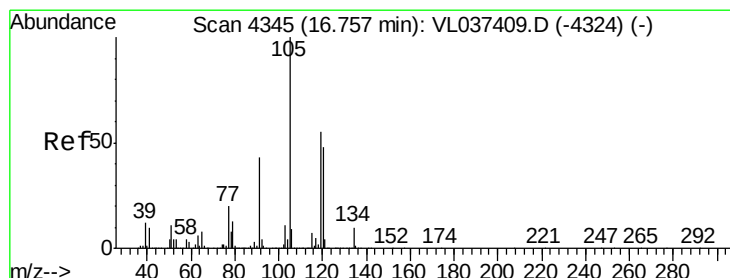
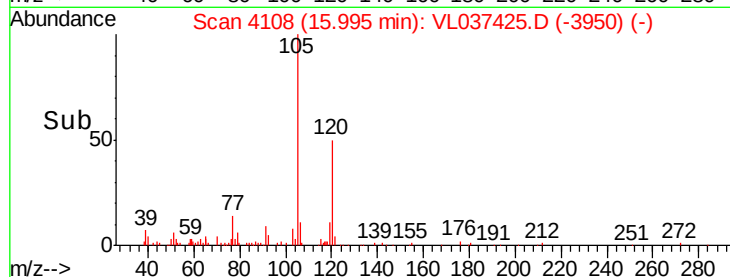
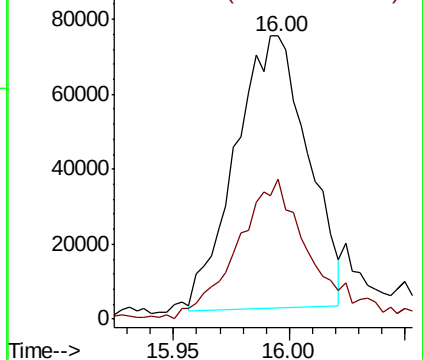
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.346 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL037425.D

Acq: 12 Aug 2021 22:45

Tgt Ion:105 Resp: 510417

Ion Ratio Lower Upper

105 100

120 41.3 38.2 57.2

91 9.5 35.4 53.2#

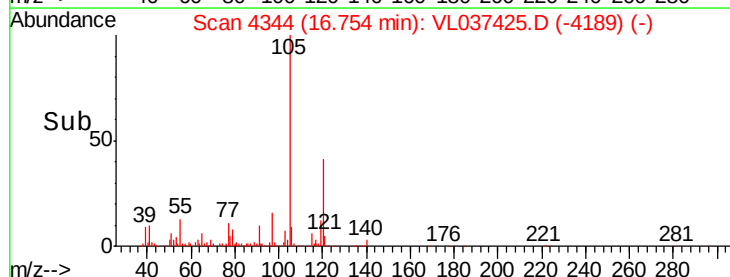
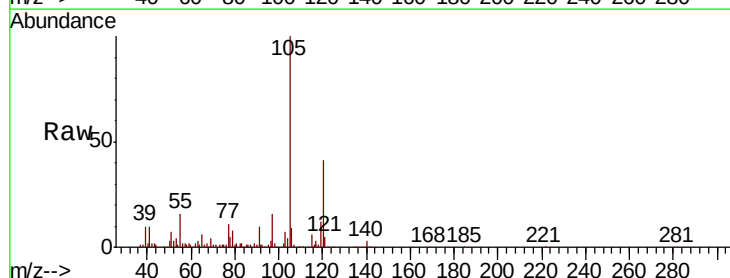
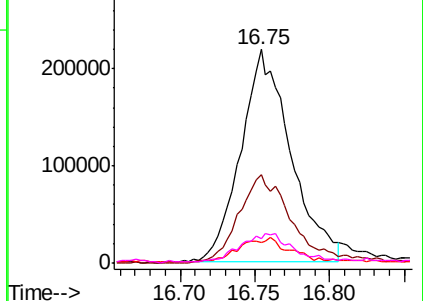
77 10.9 16.2 24.2#

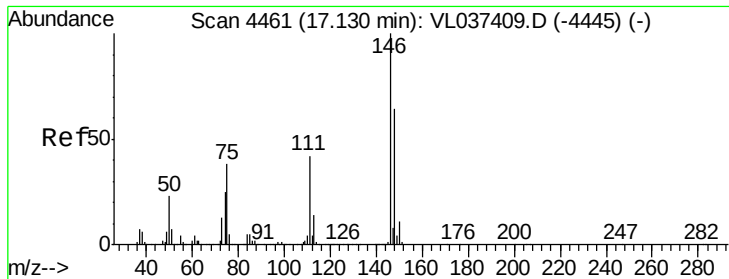
Abundance Ion 105.10 (104.80 to 105.80): V

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





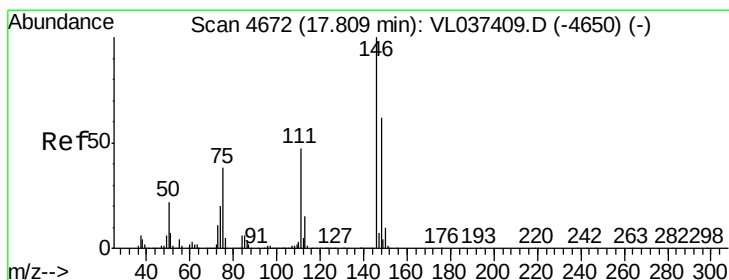
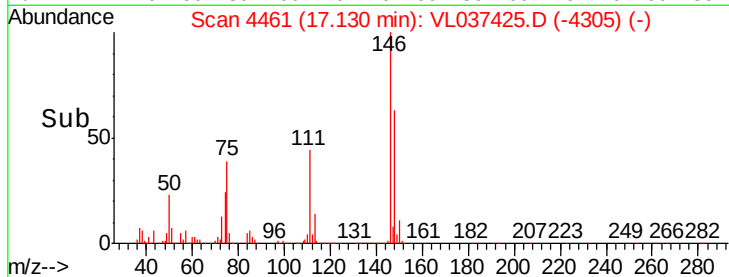
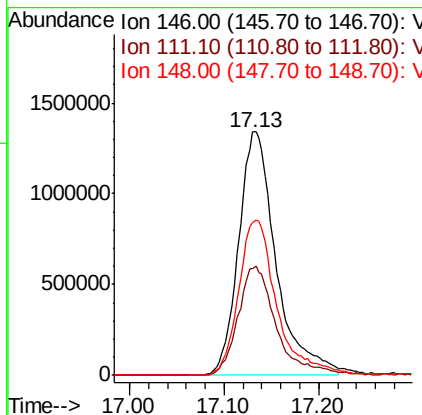
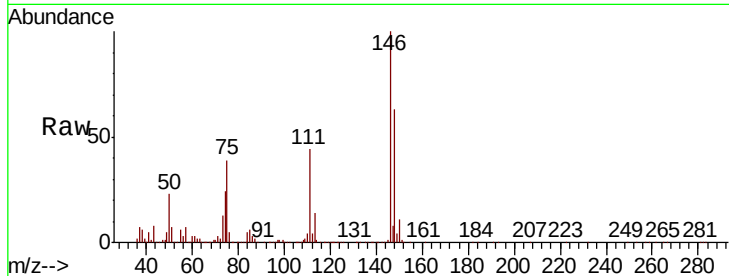
#76
 1,4-Dichlorobenzene
 Concen: 16.088 ppbv
 RT: 17.13 min Scan# 4461
 Delta R.T. 0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1RE

Tot Ion:146 Resp: 3702277
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.8 68.4
 148 65.3 34.0 102.0

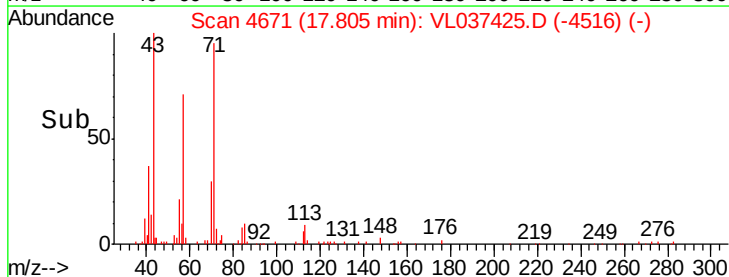
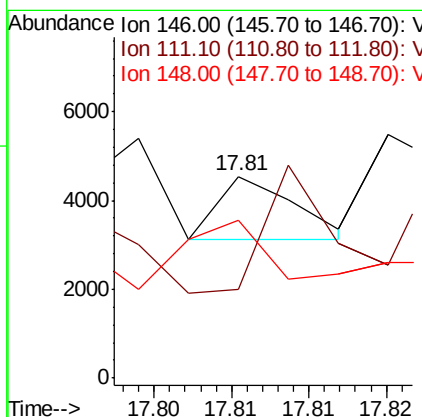
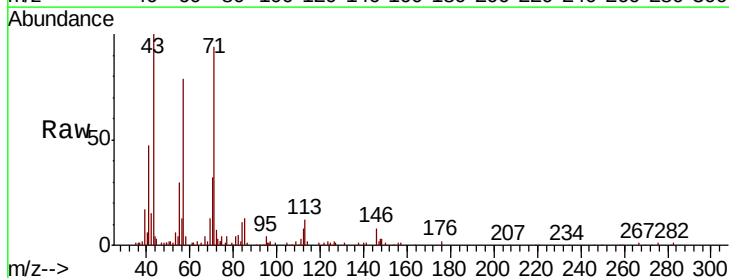
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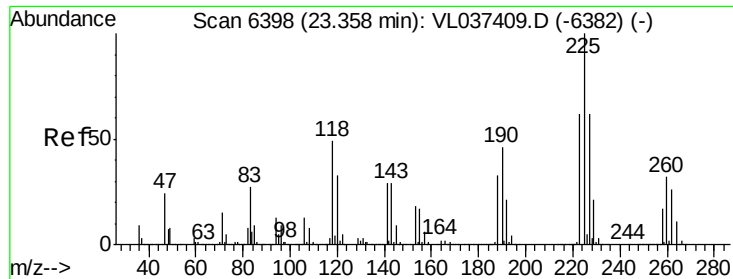
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#77
 1,2-Dichlorobenzene
 Concen: 0.002 ppbv
 RT: 17.81 min Scan# 4671
 Delta R.T. -0.00 min
 Lab File: VL037425.D
 Acq: 12 Aug 2021 22:45

Tgt Ion:146 Resp: 489
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.8 71.5#
 148 0.0 32.5 97.4#





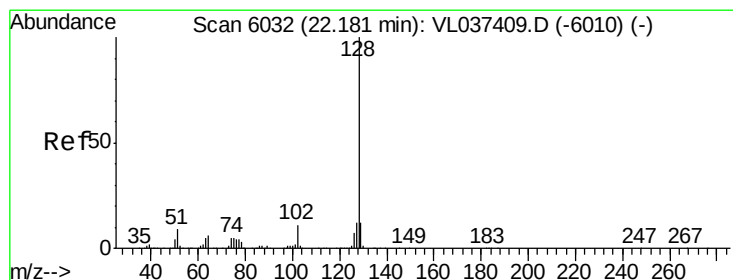
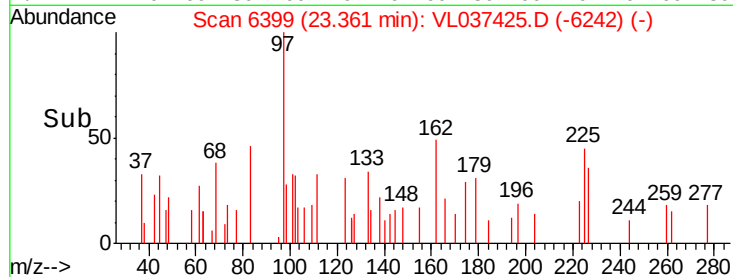
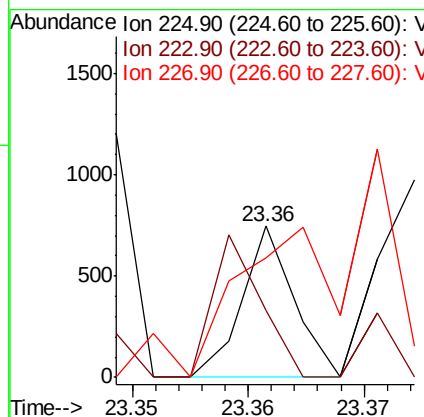
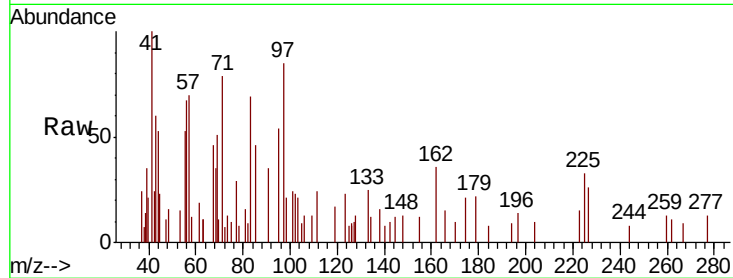
#78
Hexachloro-1,3-Butadiene
Concen: 0.001 ppbv
RT: 23.36 min Scan# 6399
Delta R.T. 0.00 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Lower	Upper
225	100		
223	242.4	51.2	76.8#
227	0.0	52.2	78.4#

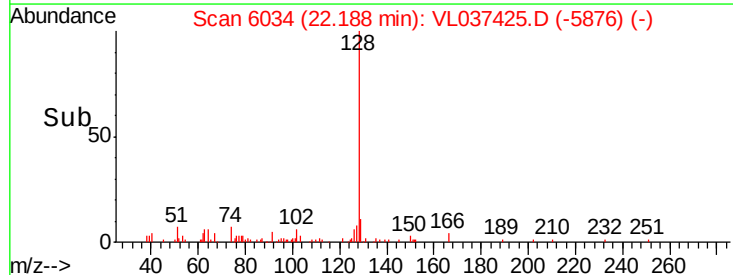
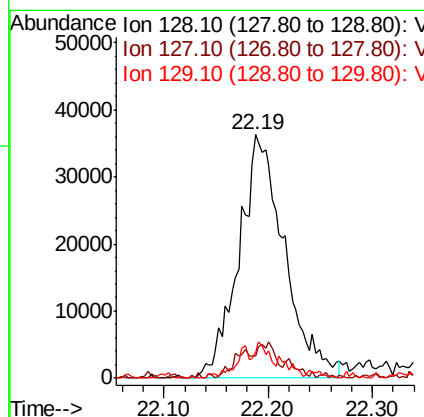
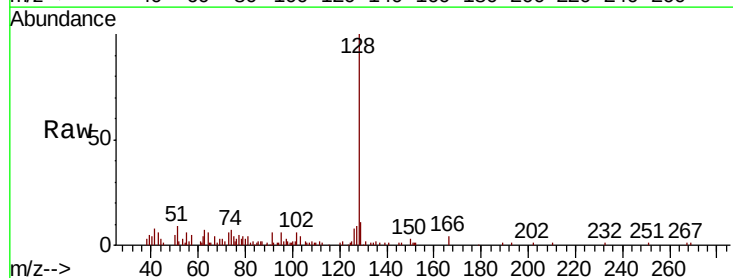
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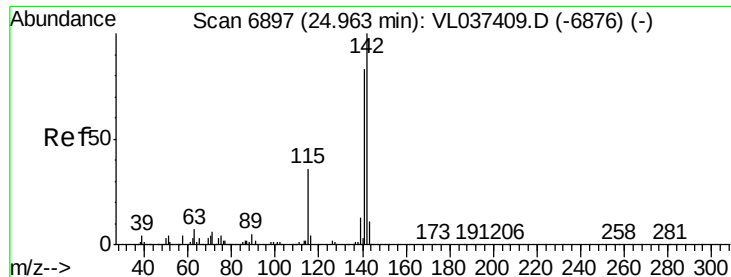
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#79
Naphthalene
Concen: 0.536 ppbv m
RT: 22.19 min Scan# 6034
Delta R.T. 0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.2	9.9	14.9#
129	10.6	9.4	14.0





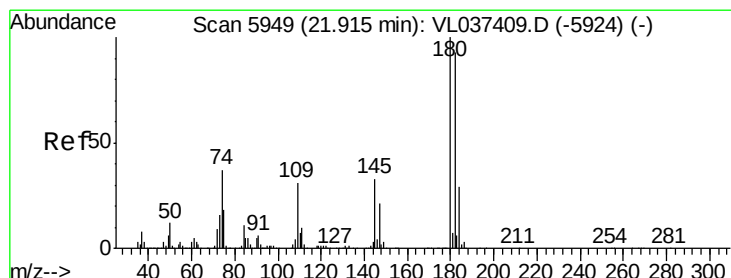
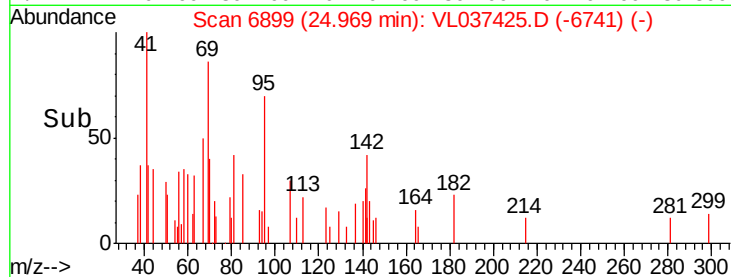
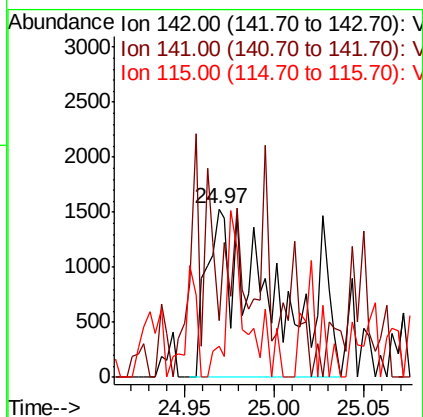
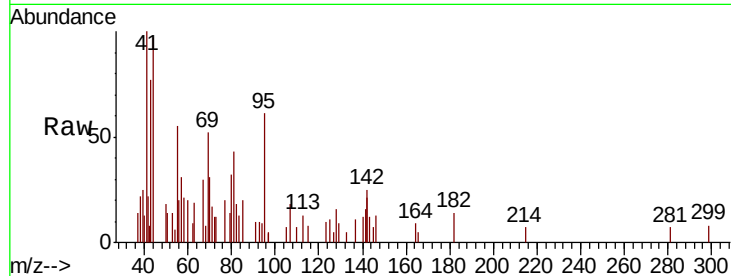
#80
Naphthalene, 2-methyl-
Concen: 0.089 ppbv m
RT: 24.97 min Scan# 6899
Delta R.T. 0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Instrument :
MSVOA_L
ClientSampled :
IA-1RE

Tot Ion	Ratio	Lower	Upper
142	100		
141	0.0	68.7	103.1#
115	0.0	32.7	49.1#

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#81
1,2,4-Trichlorobenzene
Concen: 0.006 ppbv
RT: 21.92 min Scan# 5951
Delta R.T. 0.01 min
Lab File: VL037425.D
Acq: 12 Aug 2021 22:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.6	118.0#
184	80.8	24.6	36.8#

