

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037432.D
 Acq On : 13 Aug 2021 3:24
 Operator : SY/AP
 Sample : M3211-03RE 1.2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Manual Integrations
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 8/13/2021 3:03:21 PM

Quant Time: Aug 13 11:15:14 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	5.66	49	1293082	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3779454	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3240175	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2312967	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	32175m	0.163	ppbv	
3) Chlorodifluoromethane	2.99	51	58334	0.230	ppbv #	89
4) Chloromethane	3.14	50	27214m	0.298	ppbv	
5) Vinyl Chloride	3.25	62	2667	0.027	ppbv #	59
6) Bromomethane	3.47	94	1227	0.024	ppbv	81
7) Chloroethane	3.56	64	977	0.029	ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	3827	0.017	ppbv #	58
9) Propene	3.02	41	1250316m	14.663	ppbv	
10) Heptane	8.12	43	692415	3.339	ppbv	100
11) Trichlorofluoromethane	3.95	101	51163	0.239	ppbv	90
13) Ethanol	3.62	45	853727	93.817	ppbv	85
14) Bromoethene	3.74	108	701	0.011	ppbv #	1
15) Acetone	3.84	43	8633167m	62.955	ppbv	
17) tert-Butyl alcohol	4.30	59	154319m	1.179	ppbv	
18) 1,1-Dichloroethene	4.29	96	649	0.009	ppbv #	1
19) Isopropyl Alcohol	3.98	45	843294	10.566	ppbv #	92
20) Methylene Chloride	4.34	84	4063201	56.035	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	470	0.007	ppbv	95
24) 1,1-Dichloroethane	5.02	63	4500	0.028	ppbv #	85
26) Hexane	5.69	57	5195222	30.803	ppbv #	47
27) Carbon Disulfide	4.55	76	122067	0.858	ppbv	94
29) Chloroform	5.75	83	73879m	0.311	ppbv	
30) Cyclohexane	7.13	84	47755	0.344	ppbv #	80
31) cis-1,2-Dichloroethene	5.55	61	2055	0.014	ppbv #	30
32) 1,1,1-Trichloroethane	6.51	97	11053m	0.046	ppbv	
34) 2-Butanone	5.24	43	2636024	16.894	ppbv	99
35) Carbon Tetrachloride	7.02	117	12867m	0.055	ppbv	
36) Benzene	6.89	78	151637	0.476	ppbv #	86
37) 1,2-Dichloroethane	6.32	62	4194	0.026	ppbv #	71
38) Trichloroethene	7.84	130	9916m	0.070	ppbv	
40) 1,4-Dioxane	7.83	88	37510m	1.270	ppbv	
41) Tetrahydrofuran	6.04	42	4308976	60.134	ppbv	94
43) Methyl Methacrylate	8.01	69	937	0.009	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	69644	0.131	ppbv #	1
45) t-1,3-Dichloropropene	9.29	75	189	0.002	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1576	0.014	ppbv #	37
47) 1,1,2-Trichloroethane	9.47	97	1081	0.008	ppbv #	23
48) Dibromochloromethane	10.30	129	2739	0.014	ppbv #	53
49) Bromoform	13.04	173	406	0.003	ppbv #	27
50) 4-Methyl-2-Pentanone	8.74	43	168269m	0.857	ppbv	
51) 2-Hexanone	10.12	43	341093m	3.693	ppbv	

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 Misc : 400mL/MSVOA L
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Instrument :
 MSVOA_L
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 SVP-3RE

Manual Integrations
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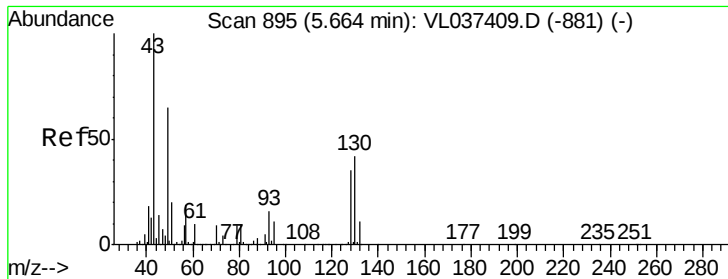
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Quant Time: Aug 13 11:15:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

52) Tetrachloroethene	11.22	164	328466	2.447	ppbv	95
53) Toluene	9.80	91	463446	1.274	ppbv	98
54) 1,2-Dibromoethane	10.61	107	4164	0.023	ppbv #	60
56) 1,1,1,2-Tetrachloroethane	12.12	131	832	0.006	ppbv #	6
57) Chlorobenzene	12.14	112	16435m	0.063	ppbv	
58) Ethyl Benzene	12.71	91	125809m	0.286	ppbv	
59) m/p-Xylene	12.96	91	295307m	0.765	ppbv	
60) o-Xylene	13.68	91	125908m	0.351	ppbv	
61) Styrene	13.53	104	22237m	0.123	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.66	83	12350m	0.046	ppbv	
64) n-propylbenzene	15.55	120	11691m	0.091	ppbv	
67) sec-Butylbenzene	17.28	105	15241	0.024	ppbv #	48
70) n-Butylbenzene	18.54	91	41869m	0.087	ppbv	
71) 2-Chlorotoluene	15.50	91	1176	0.003	ppbv	89
72) 4-Ethyltoluene	15.83	105	50546m	0.121	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	59799m	0.152	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	153258	0.380	ppbv #	72
75) 1,3-Dichlorobenzene	16.98	146	64770m	0.263	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	1748	0.007	ppbv #	1
77) 1,2-Dichlorobenzene	17.81	146	1549	0.007	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.36	225	1334	0.007	ppbv #	18
79) Naphthalene	22.18	128	41028m	0.187	ppbv	
80) Naphthalene,2-methyl-	24.96	142	2988m	0.065	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	926	0.006	ppbv #	1

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



#1

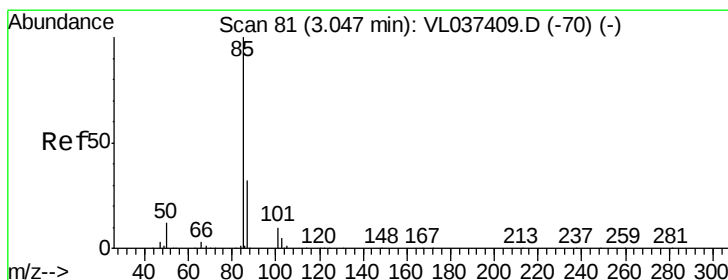
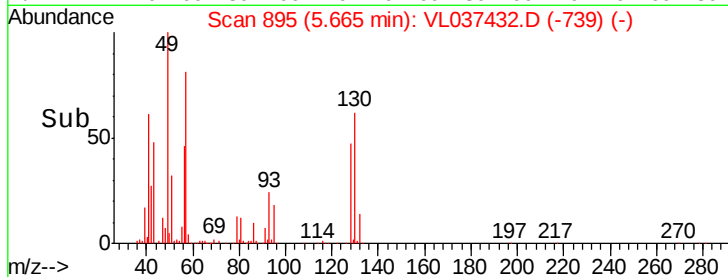
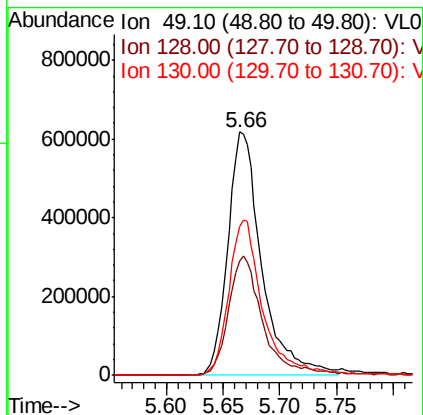
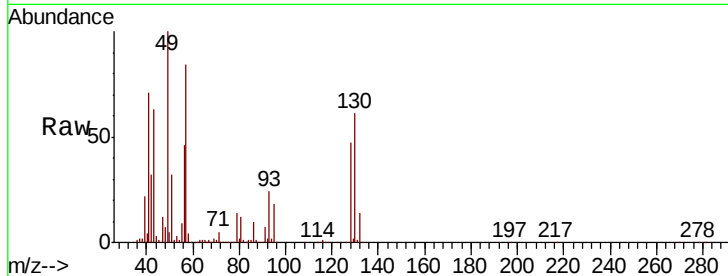
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 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampled :
 SVP-3RE

Tot Ion: 49 Resp: 1293082
 Ion Ratio Lower Upper
 49 100
 128 49.9 27.9 83.6
 130 64.3 34.6 103.8

Manual Integrations
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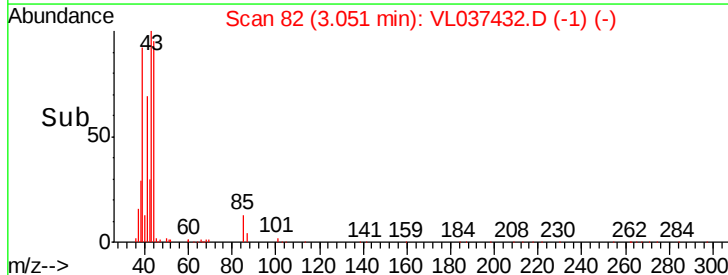
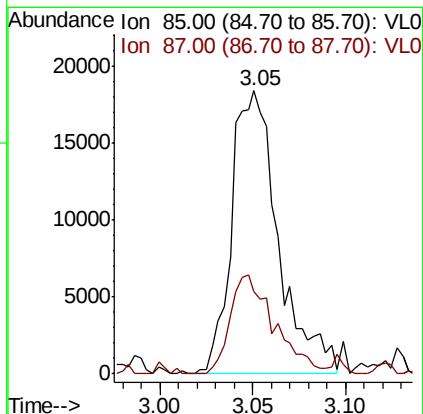
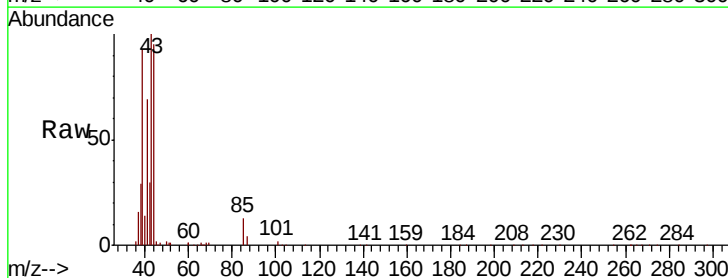
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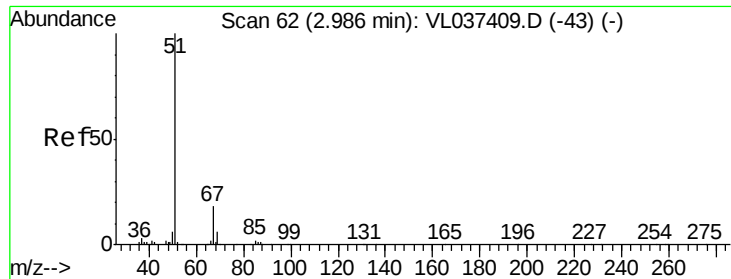


#2

Dichlorodifluoromethane
 Concen: 0.163 ppbv m
 RT: 3.05 min Scan# 82
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion: 85 Resp: 32175
 Ion Ratio Lower Upper
 85 100
 87 29.0 25.7 38.5





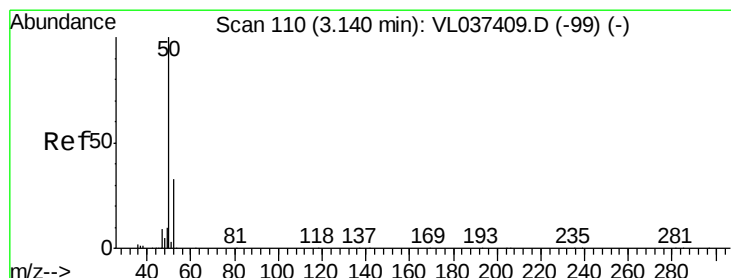
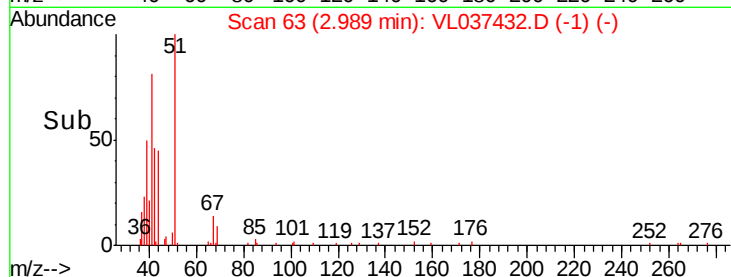
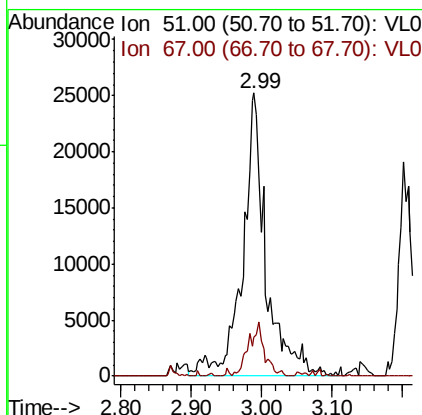
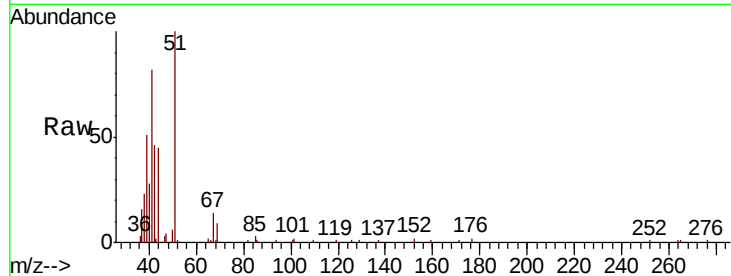
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Chlorodifluoromethane
Concen: 0.230 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-3RE

Tot Ion: 51 Resp: 58334
Ion Ratio Lower Upper
51 100
67 13.3 14.7 22.1#

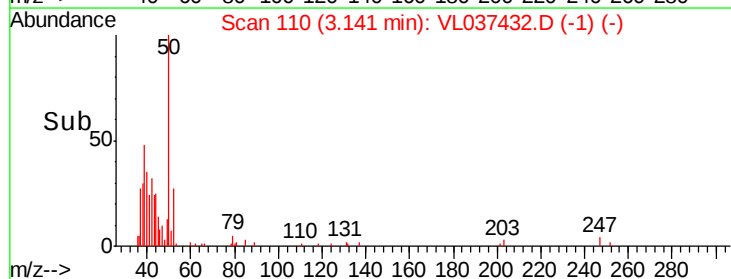
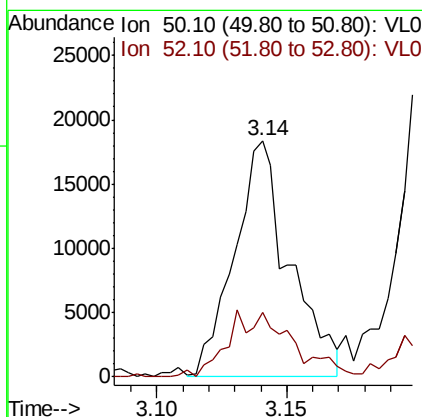
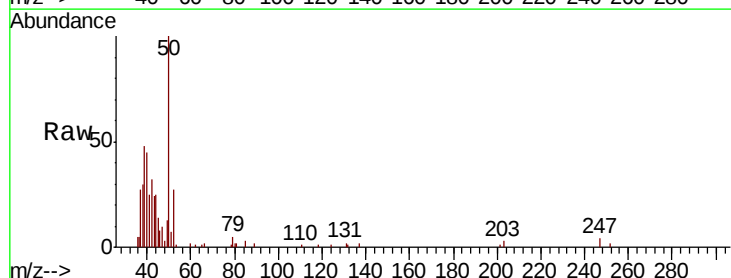
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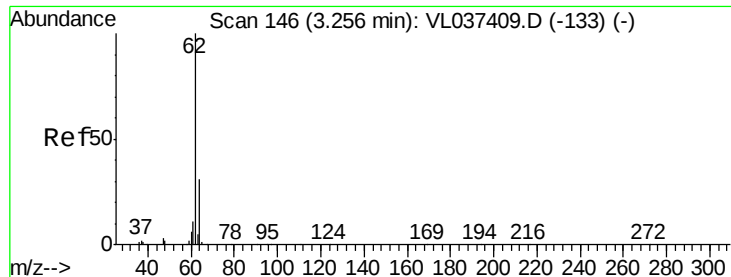
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#4
Chloromethane
Concen: 0.298 ppbv m
RT: 3.14 min Scan# 110
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion: 50 Resp: 27214
Ion Ratio Lower Upper
50 100
52 27.2 26.2 39.4





#5

Vinyl Chloride

Concen: 0.027 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampled :

SVP-3RE

Tot Ion: 62 Resp: 2667

Ion Ratio Lower Upper

62 100

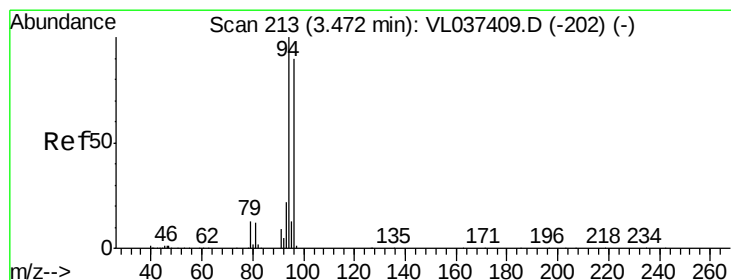
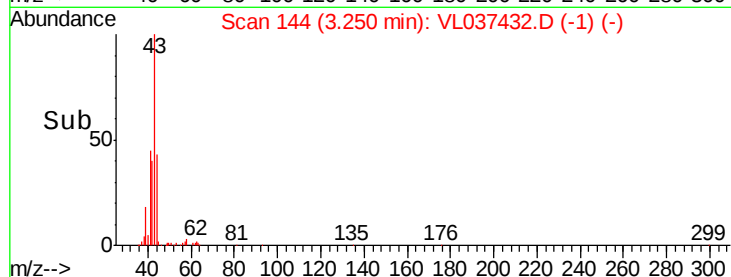
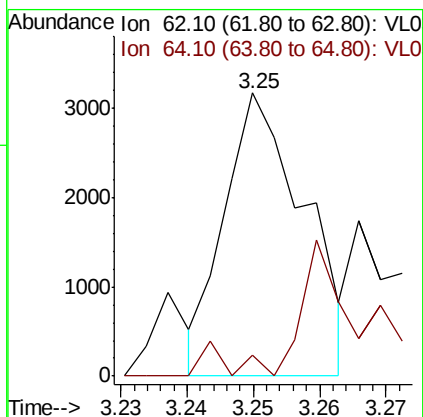
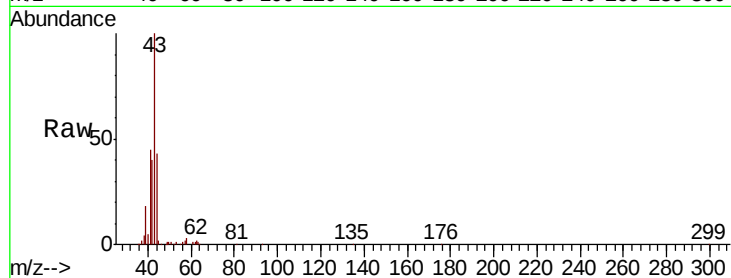
64 8.6 25.0 37.6#

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#6

Bromomethane

Concen: 0.024 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL037432.D

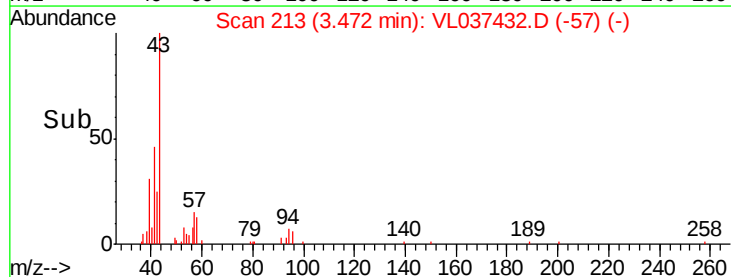
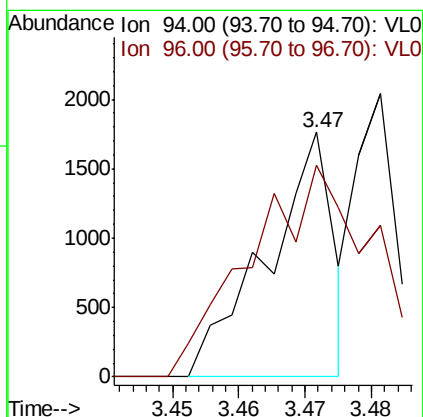
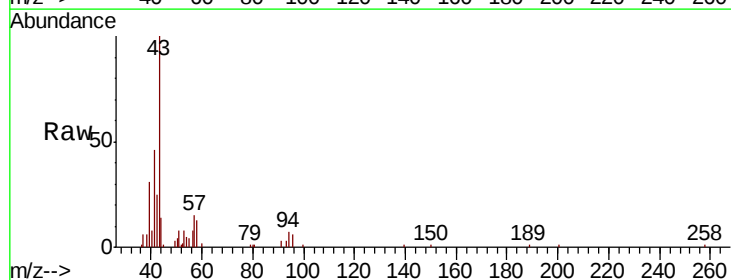
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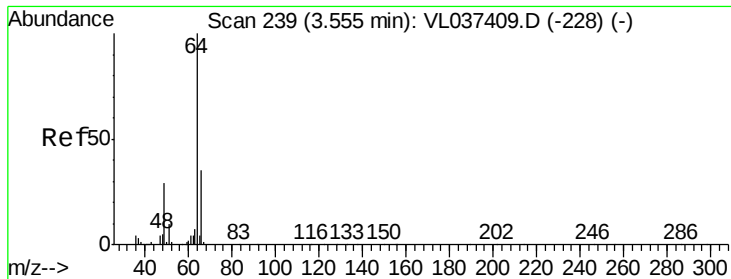
Tgt Ion: 94 Resp: 1227

Ion Ratio Lower Upper

94 100

96 72.6 72.2 108.4





#7

Chloroethane

Concen: 0.029 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-3RE

Tot Ion: 64 Resp: 977

Ion Ratio Lower Upper

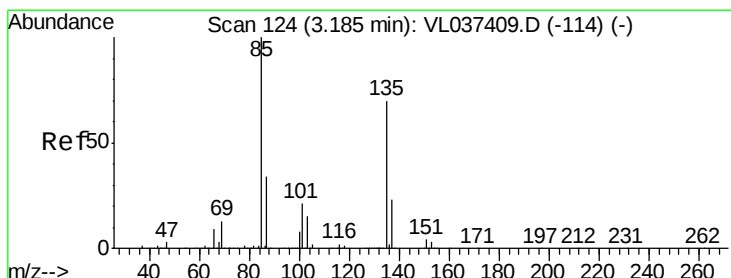
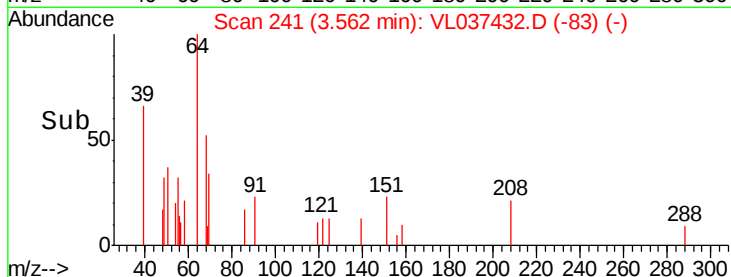
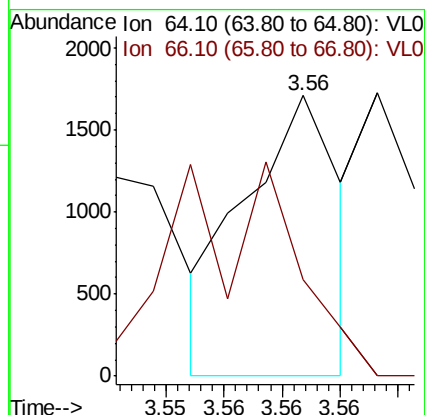
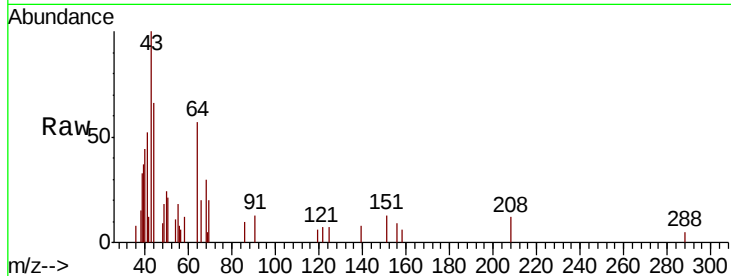
64 100

66 34.4 27.8 41.8

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 0.017 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL037432.D

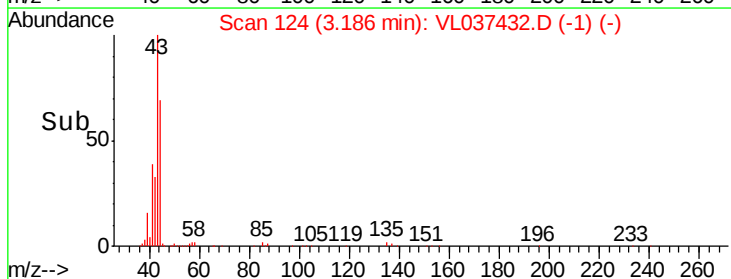
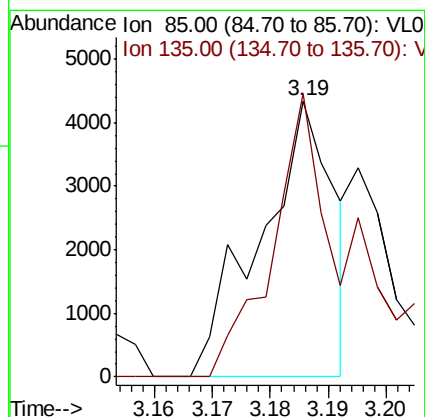
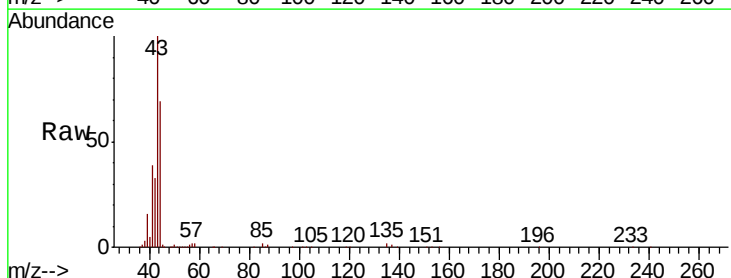
Acq: 13 Aug 2021 3:24

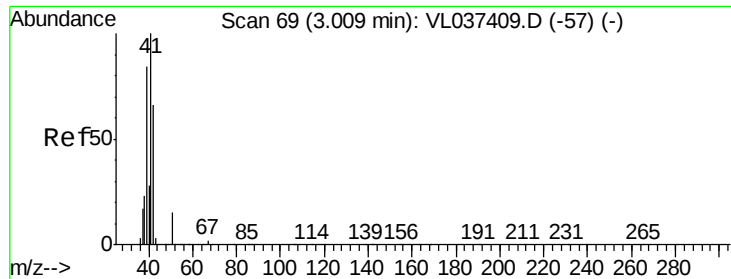
Tgt Ion: 85 Resp: 3827

Ion Ratio Lower Upper

85 100

135 108.5 58.6 88.0#





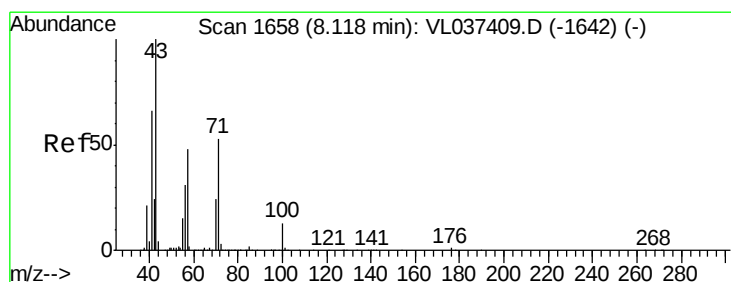
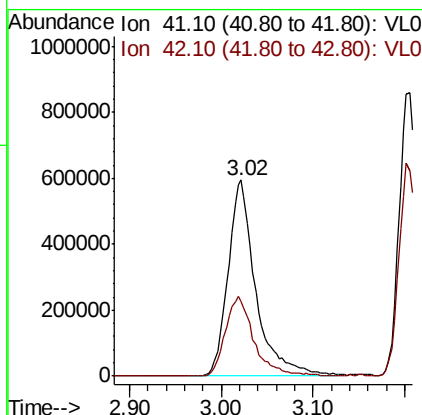
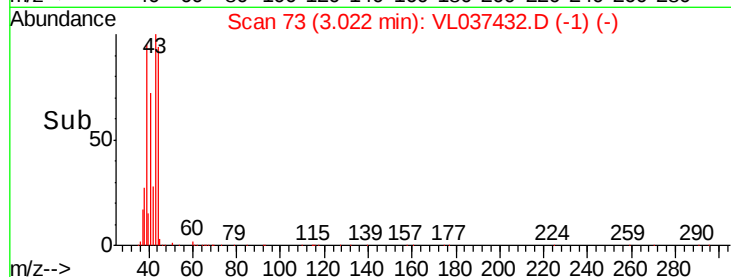
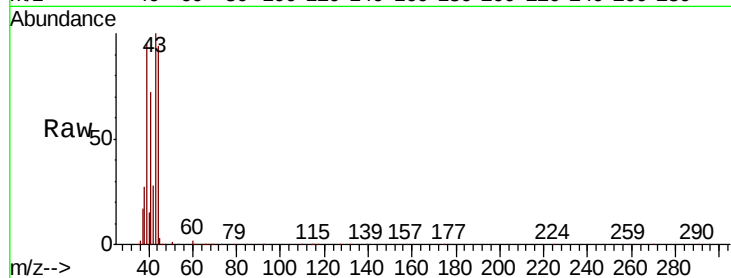
#9
 Propene
 Concen: 14.663 ppbv m
 RT: 3.02 min Scan# 73
 Delta R.T. 0.01 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Tot Ion: 41 Resp: 1250316
 Ion Ratio Lower Upper
 41 100
 42 86.3 53.8 80.8#

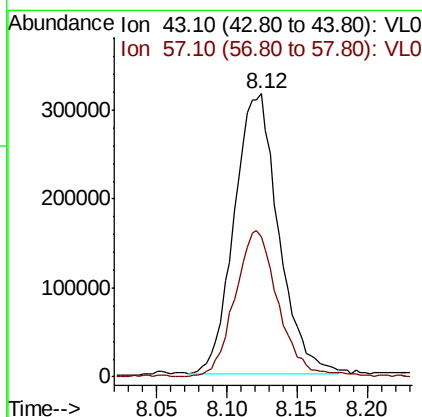
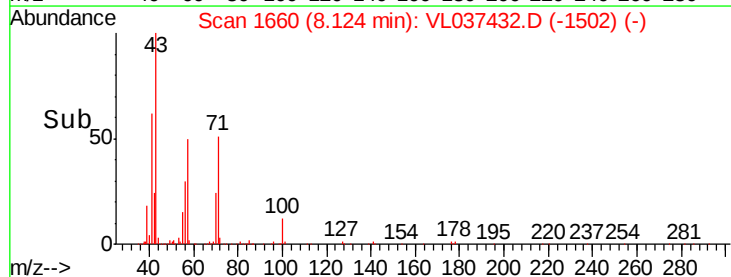
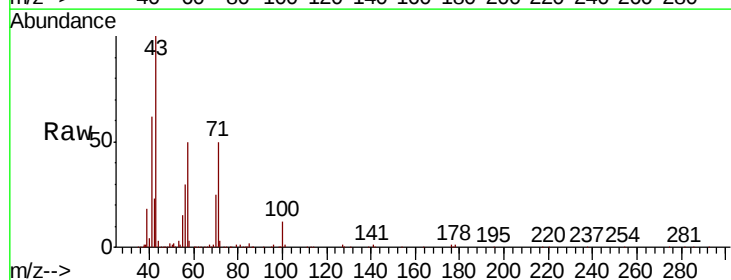
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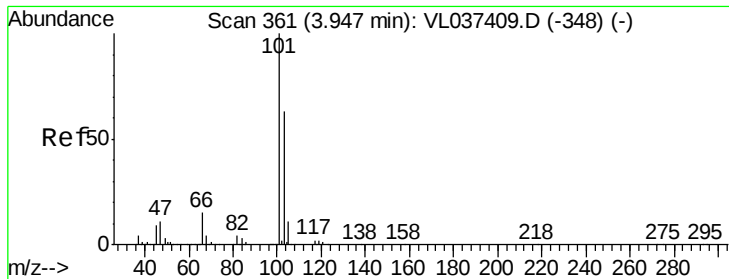
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#10
 Heptane
 Concen: 3.339 ppbv
 RT: 8.12 min Scan# 1660
 Delta R.T. 0.01 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion: 43 Resp: 692415
 Ion Ratio Lower Upper
 43 100
 57 50.5 40.3 60.5





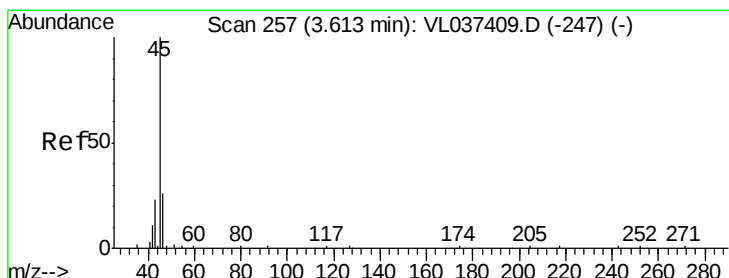
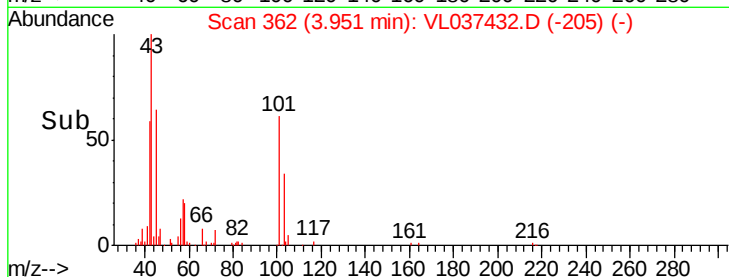
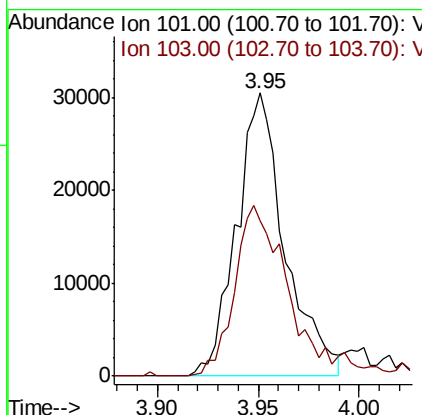
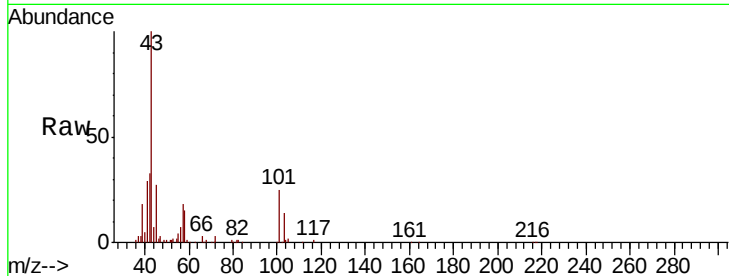
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Trichlorofluoromethane
Concen: 0.239 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
101	100		
103	54.7	50.2	75.4

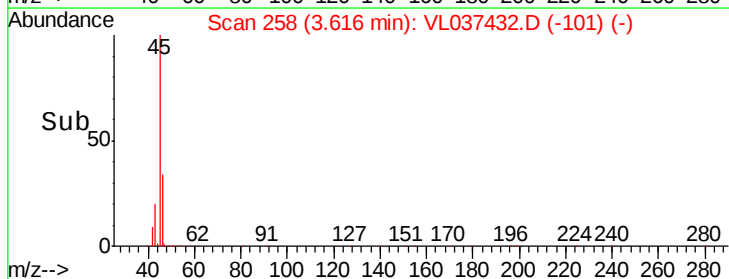
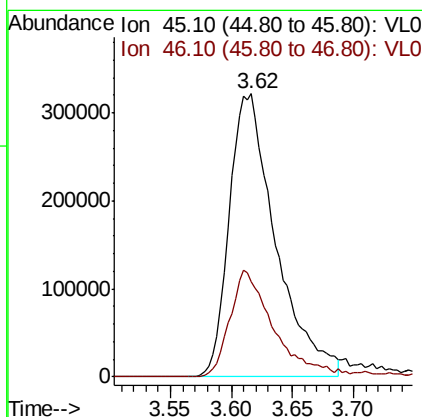
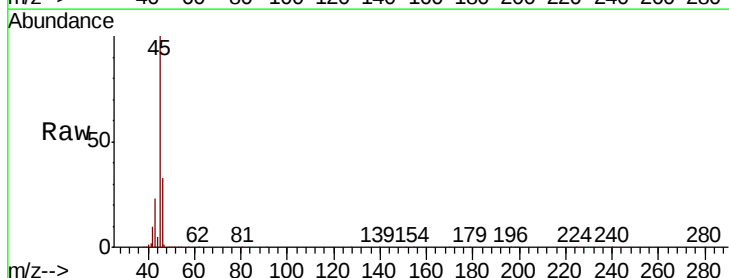
Manual Integrations
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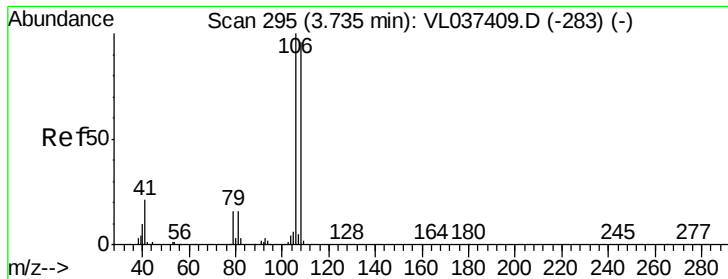
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#13
Ethanol
Concen: 93.817 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.4	18.0	72.2





#14

Bromoethene

Concen: 0.011 ppbv

RT: 3.74 min Scan# 295

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

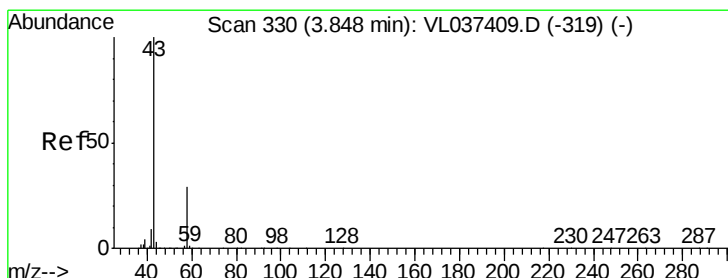
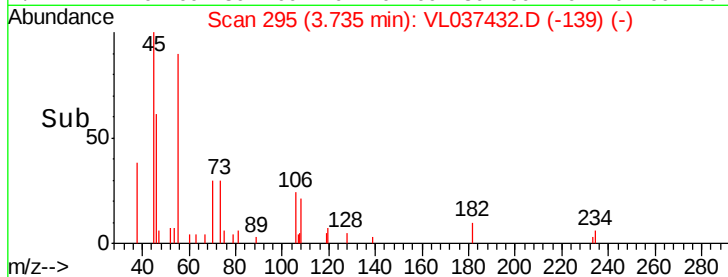
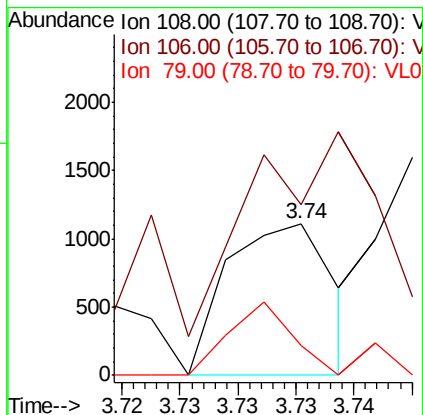
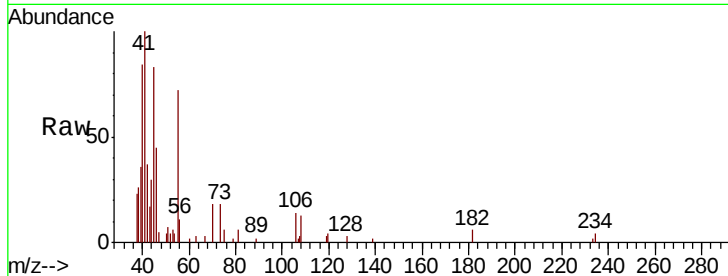
ClientSampleId :

SVP-3RE

Tot Ion:	108	Resp:	701
Ion Ratio	Lower	Upper	
108	100		
106	449.4	87.5	131.3#
79	0.0	13.5	20.3#

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#15

Acetone

Concen: 62.955 ppbv m

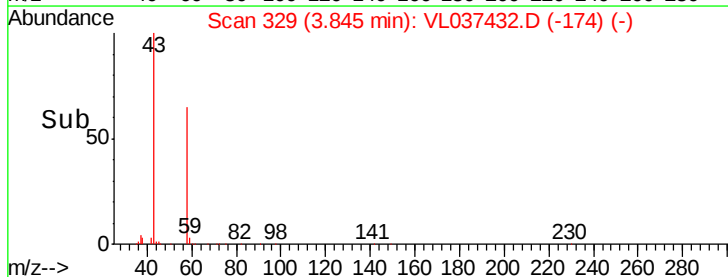
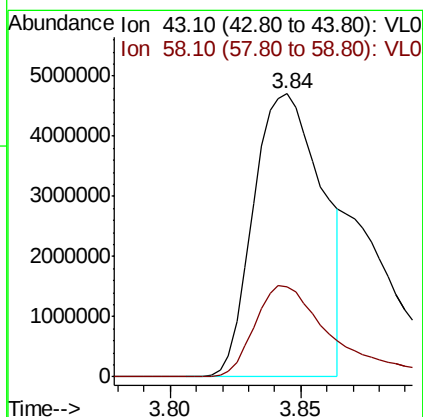
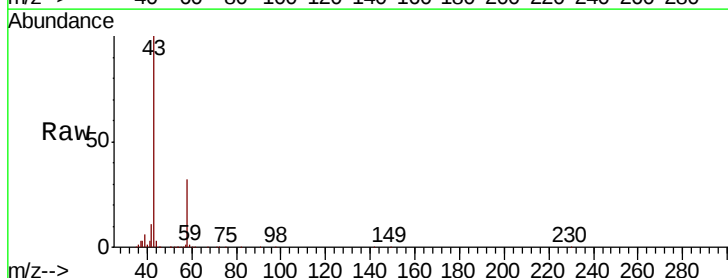
RT: 3.84 min Scan# 329

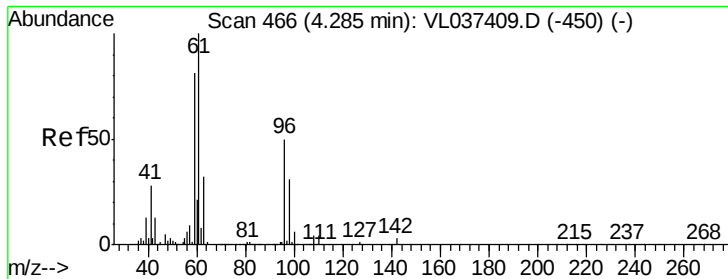
Delta R.T. -0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Tgt Ion:	43	Resp:	8633167
Ion Ratio	Lower	Upper	
43	100		
58	38.7	24.4	36.6#





#17

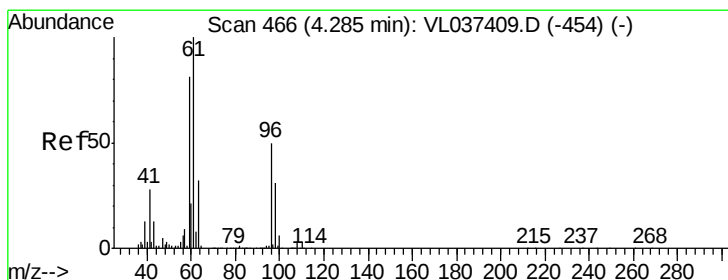
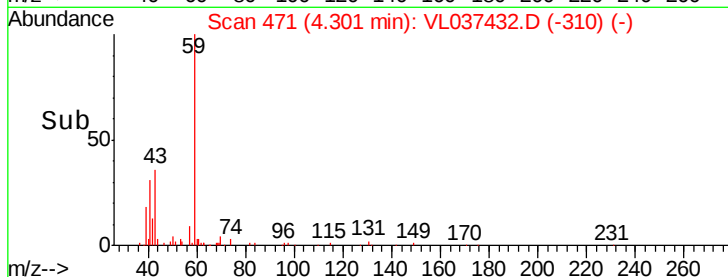
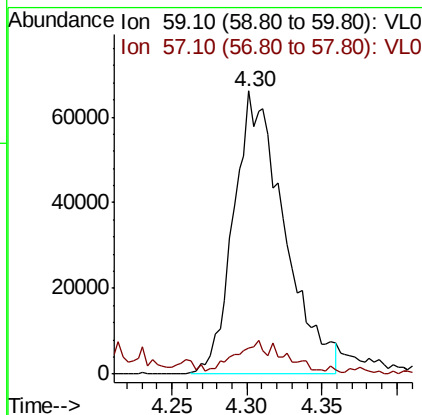
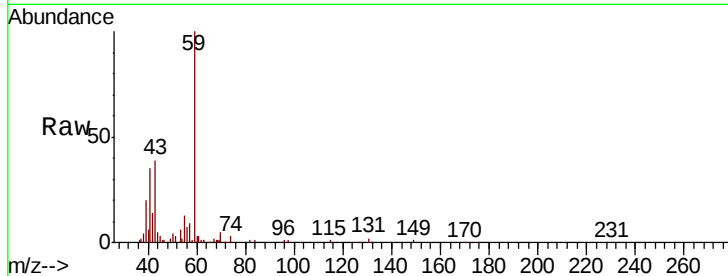
tert-Butyl alcohol
Concen: 1.179 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.02 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampled :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.5	12.7#

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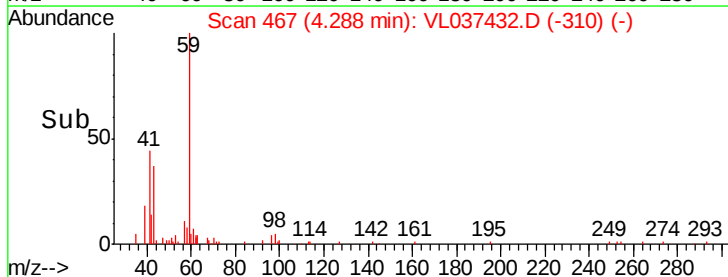
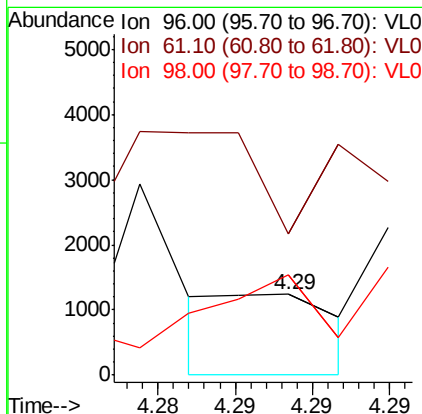
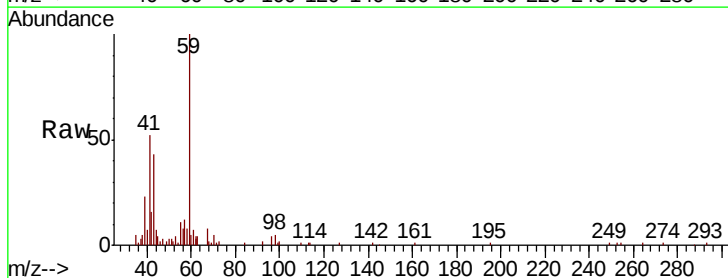
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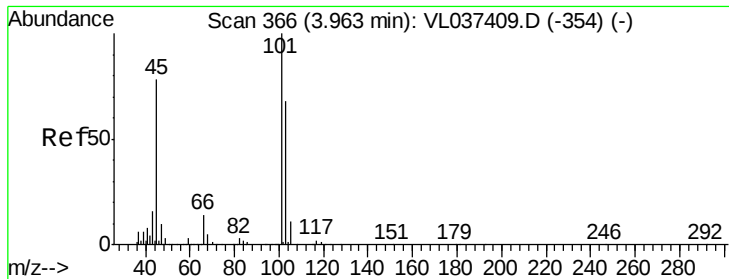


#18

1,1-Dichloroethene
Concen: 0.009 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.3	159.0	238.4#
98	276.4	49.4	74.2#





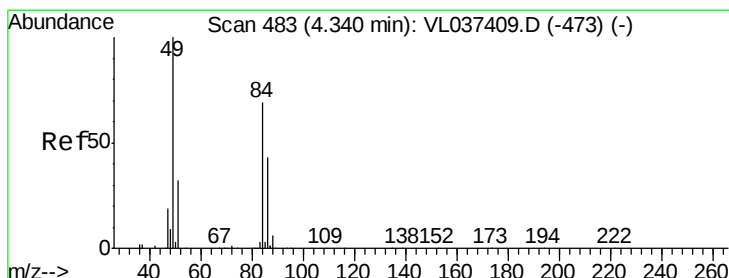
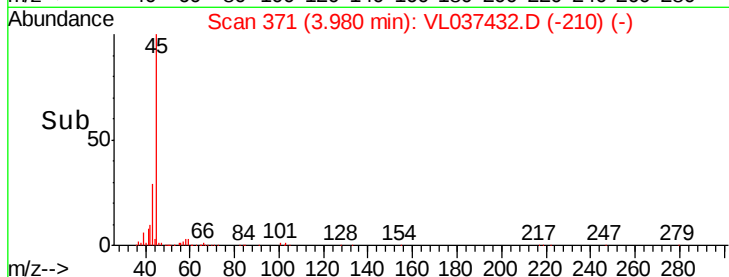
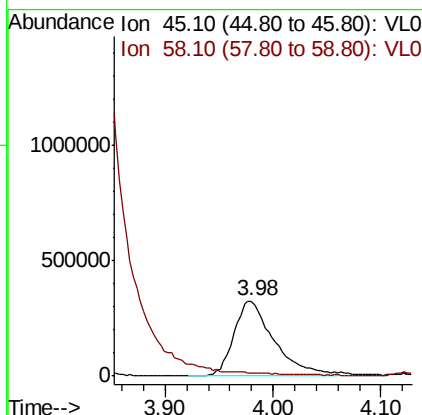
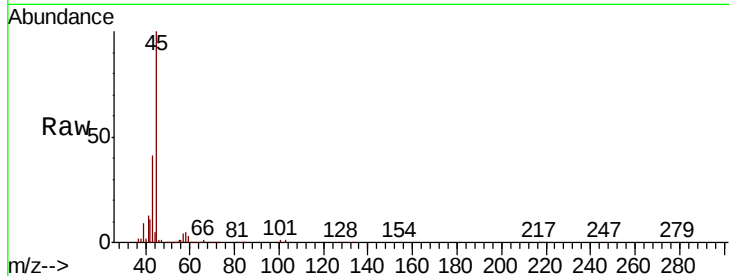
#19
Isopropyl Alcohol
Concen: 10.566 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.02 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampled :
SVP-3RE

Tot Ion: 45 Resp: 843294
Ion Ratio Lower Upper
45 100
58 0.0 2.2 3.4#

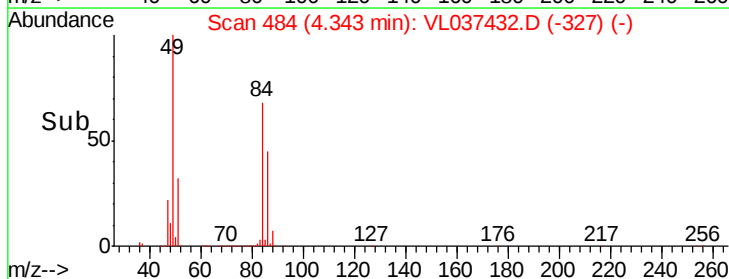
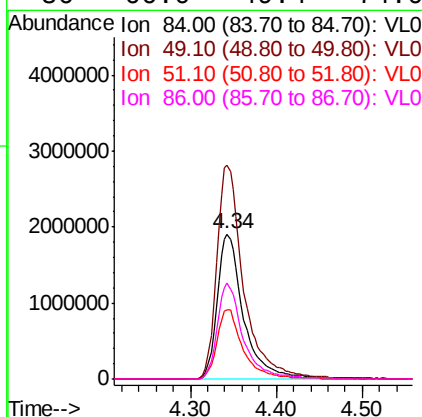
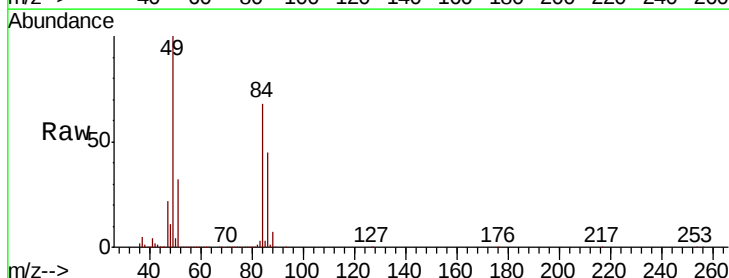
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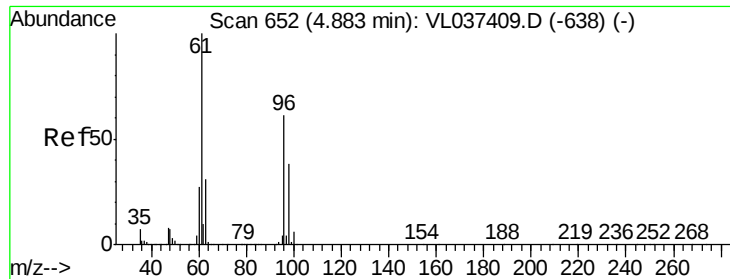
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#20
Methylene Chloride
Concen: 56.035 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion: 84 Resp: 4063201
Ion Ratio Lower Upper
84 100
49 147.4 116.0 174.0
51 47.7 37.1 55.7
86 66.0 49.4 74.0





#22

trans-1,2-Dichloroethene

Concen: 0.007 ppbv

RT: 4.87 min Scan# 648

Delta R.T. -0.01 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

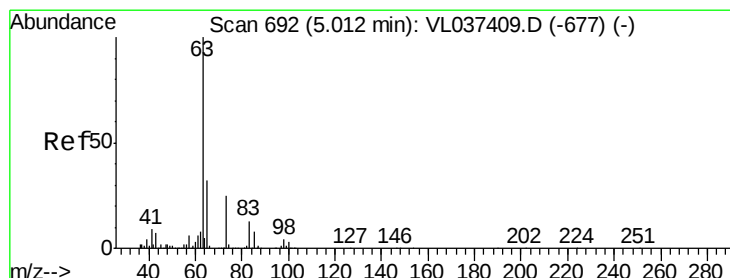
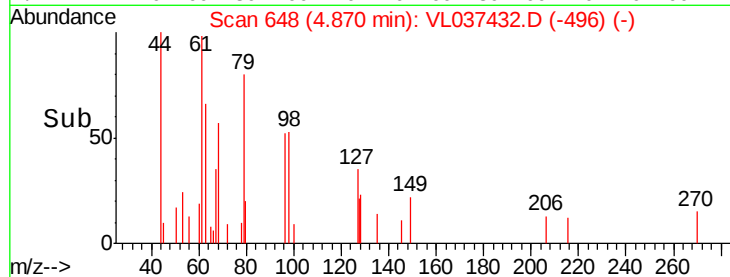
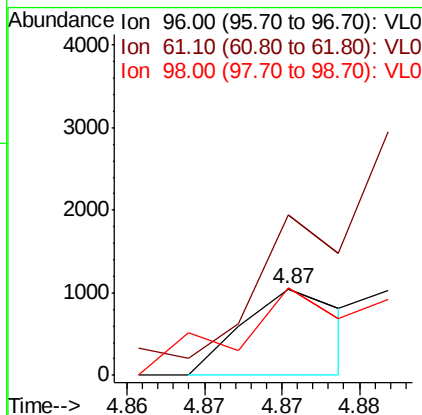
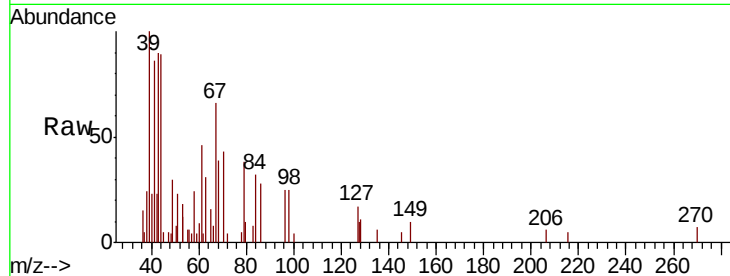
ClientSampled :

SVP-3RE

Tot Ion:	96	Resp:	470
Ion	Ratio	Lower	Upper
96	100		
61	166.5	131.0	196.4
98	52.2	50.2	75.4

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#24

1,1-Dichloroethane

Concen: 0.028 ppbv

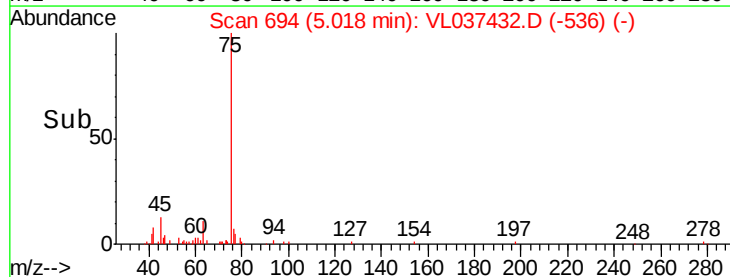
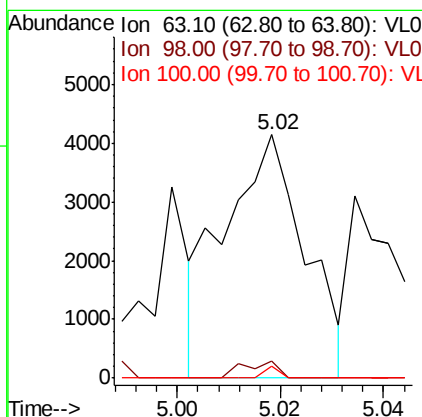
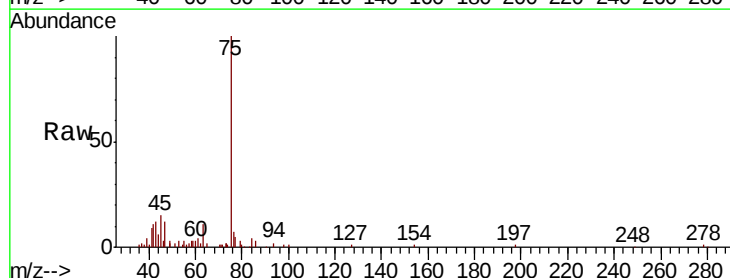
RT: 5.02 min Scan# 694

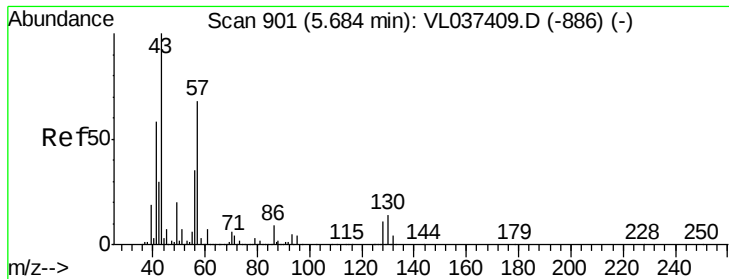
Delta R.T. 0.01 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Tgt Ion:	63	Resp:	4500
Ion	Ratio	Lower	Upper
63	100		
98	9.9	2.1	6.3#
100	6.8	1.6	4.7#





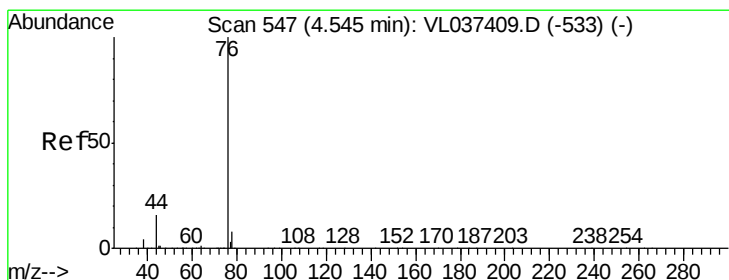
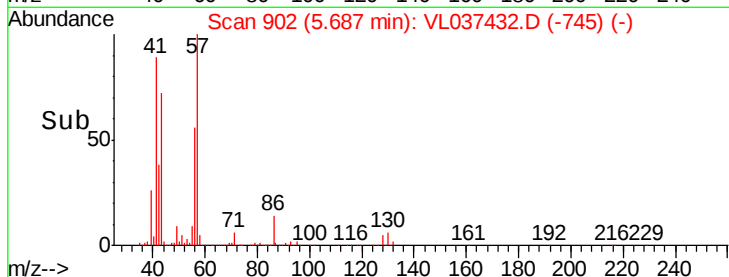
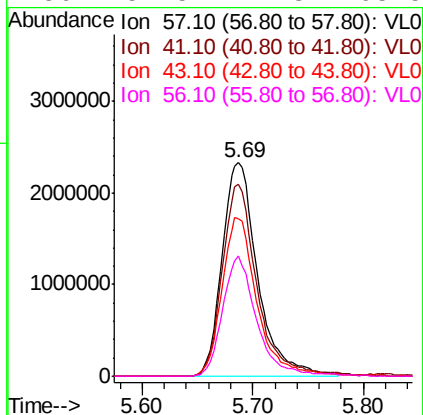
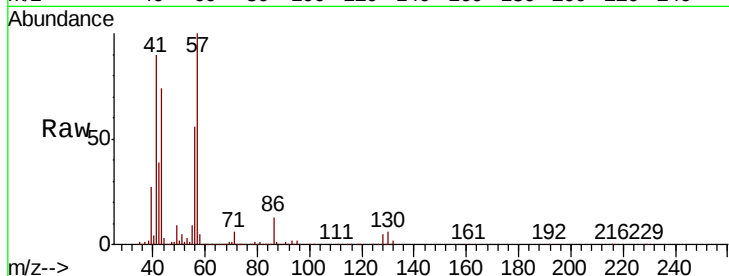
#26
Hexane
Concen: 30.803 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
57	100		
41	88.5	72.5	108.7
43	73.7	169.3	253.9#
56	54.5	42.3	63.5

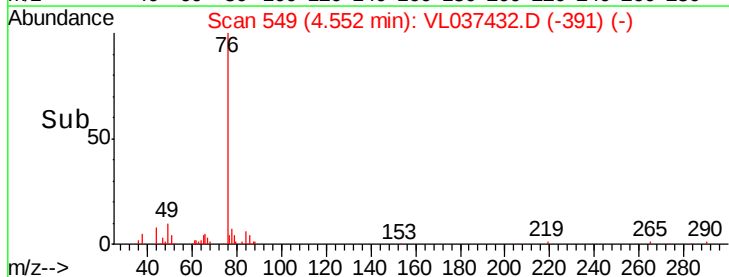
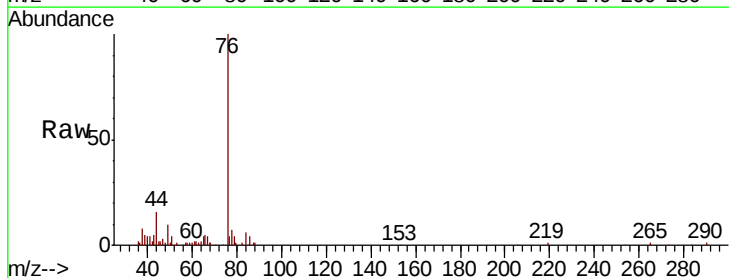
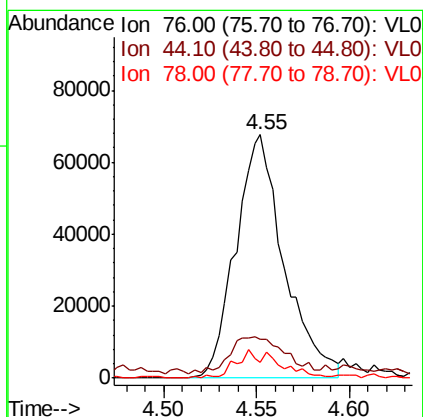
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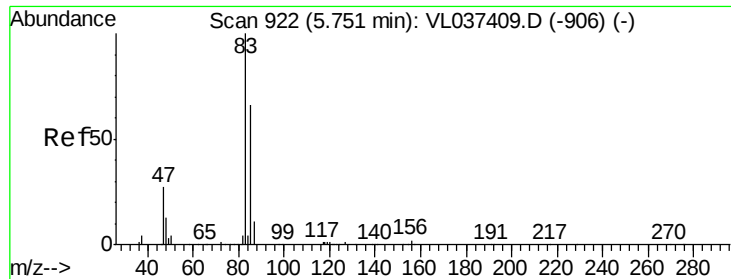
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#27
Carbon Disulfide
Concen: 0.858 ppbv
RT: 4.55 min Scan# 549
Delta R.T. 0.01 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
76	100		
44	21.3	14.4	21.6
78	11.3	8.0	12.0





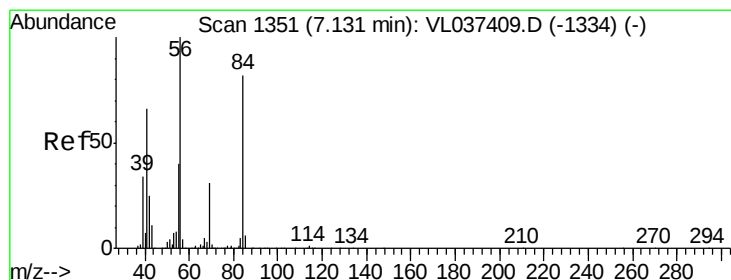
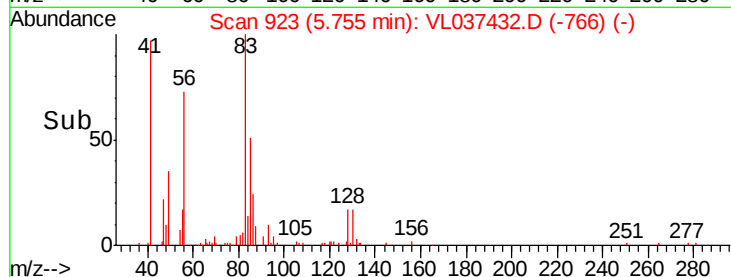
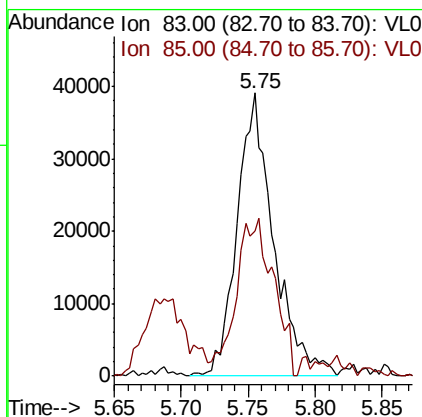
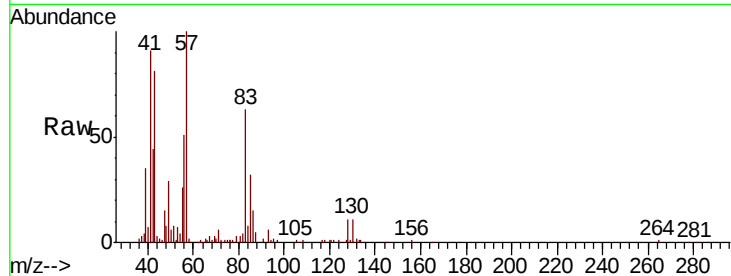
#29
Chloroform
Concen: 0.311 ppbv m
RT: 5.75 min Scan# 923
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-3RE

Tot Ion	83	Resp	73879
Ion Ratio	Lower	Upper	
83	100		
85	51.3	52.4	78.6#

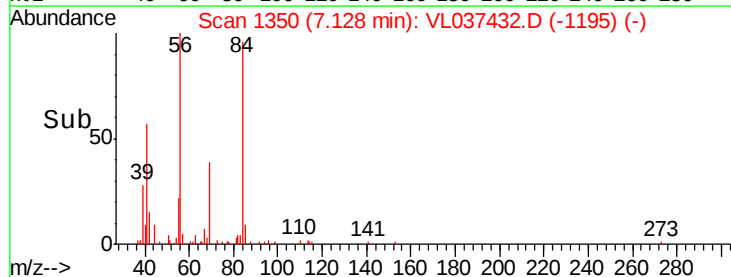
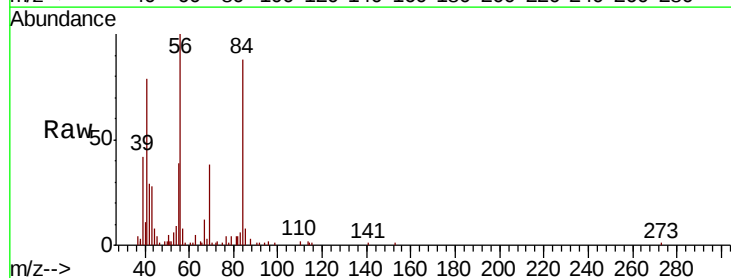
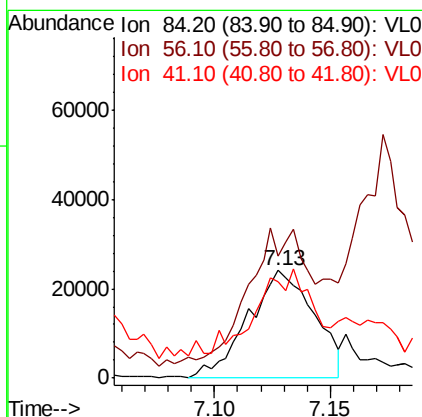
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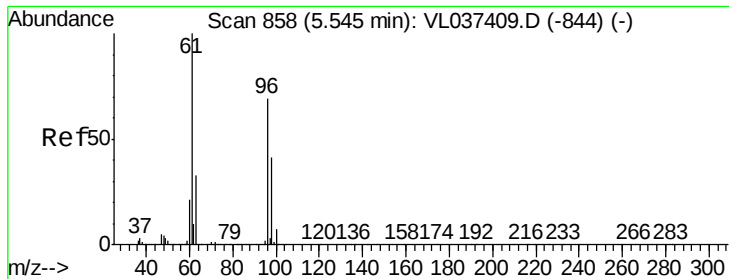
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#30
Cyclohexane
Concen: 0.344 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	84	Resp	47755
Ion Ratio	Lower	Upper	
84	100		
56	139.0	109.6	164.4
41	128.6	66.6	99.8#





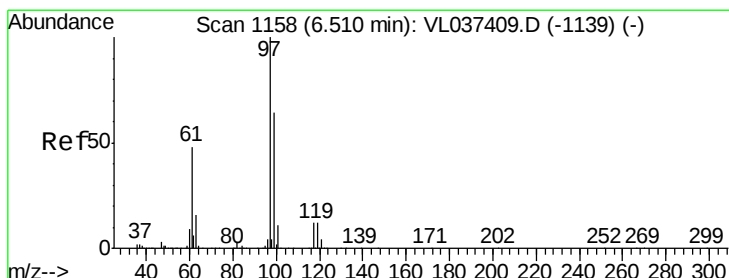
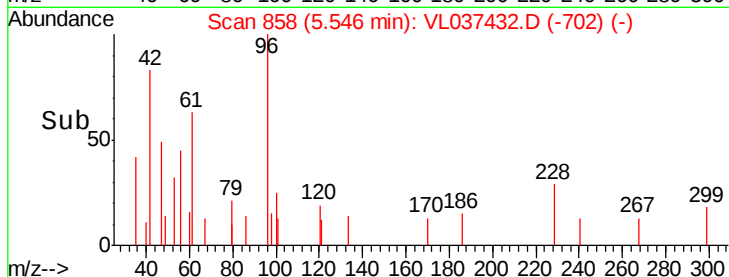
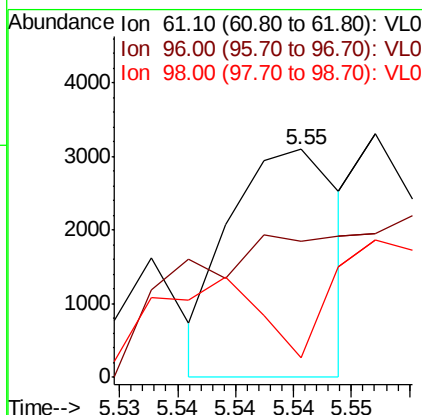
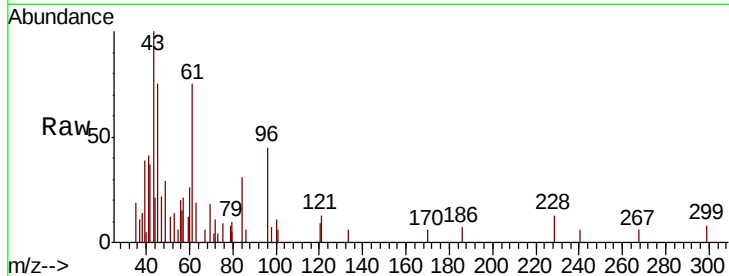
#31
 cis-1,2-Dichloroethene
 Concen: 0.014 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampled :
 SVP-3RE

Tot Ion:	61	Resp:	2055
Ion Ratio	Lower	Upper	
61	100		
96	9.9	55.5	83.3#
98	0.0	33.1	49.7#

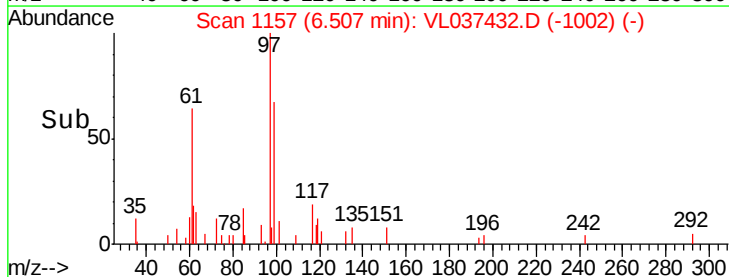
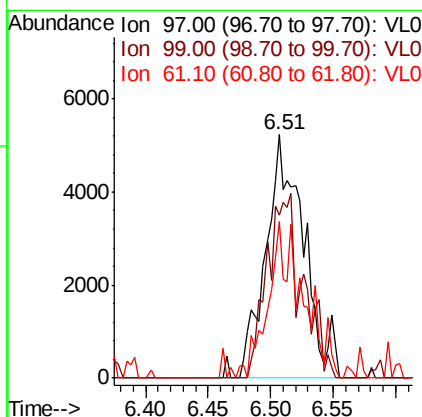
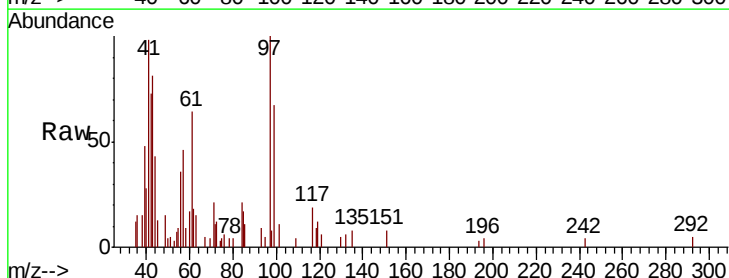
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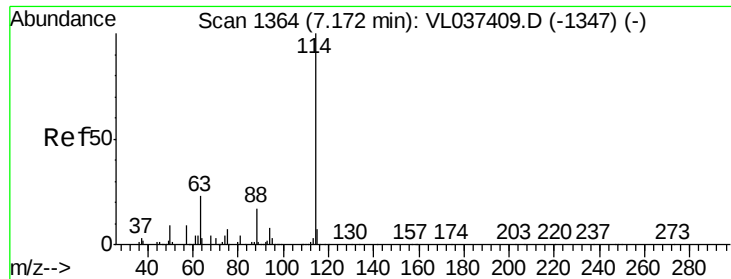
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#32
 1,1,1-Trichloroethane
 Concen: 0.046 ppbv m
 RT: 6.51 min Scan# 1157
 Delta R.T. -0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion:	97	Resp:	11053
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.3	78.5#
61	58.9	40.1	60.1





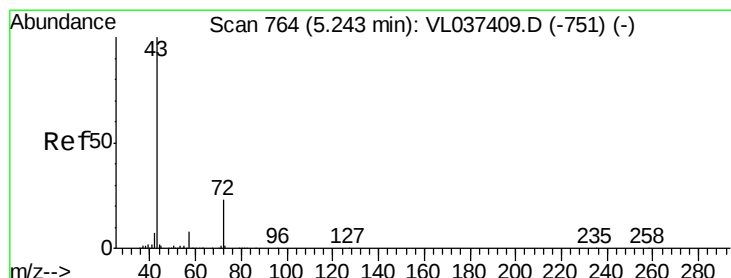
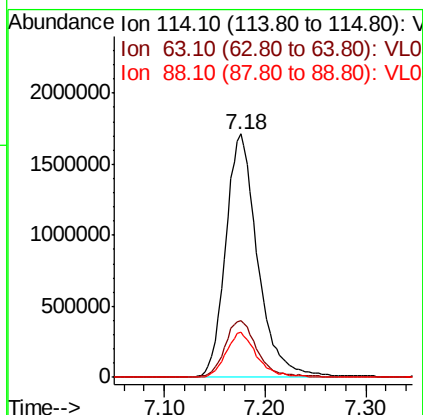
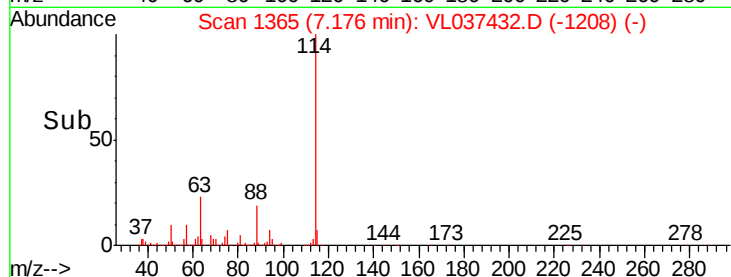
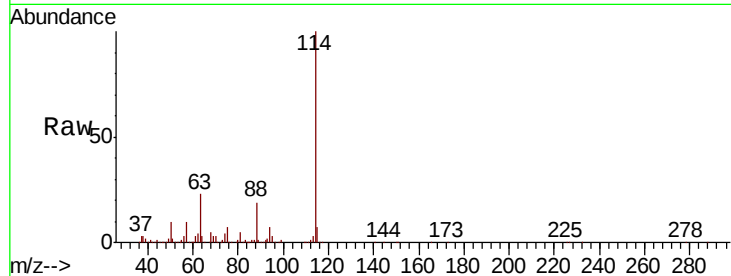
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.2
88	18.1	14.2	21.4

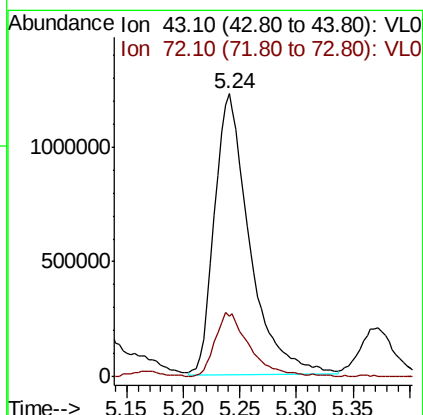
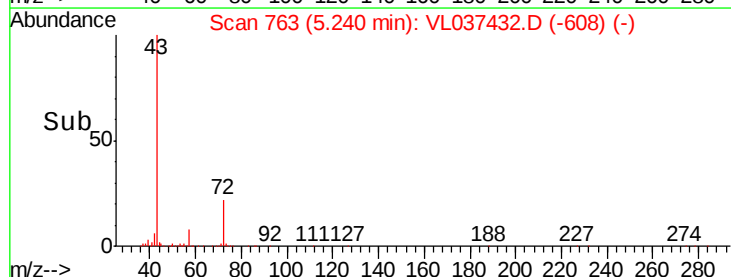
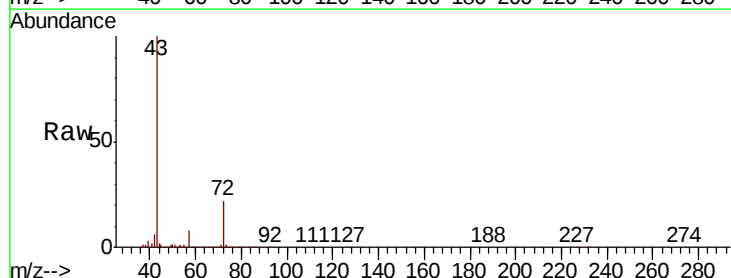
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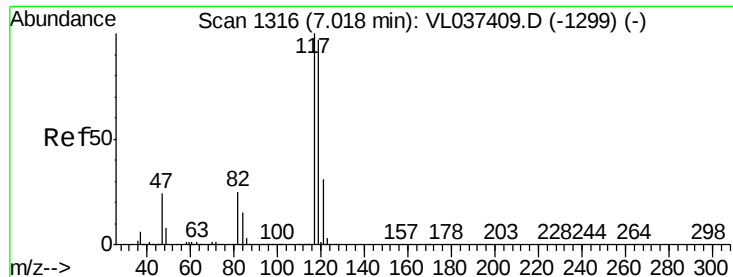
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#34
 2-Butanone
 Concen: 16.894 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.7	26.5





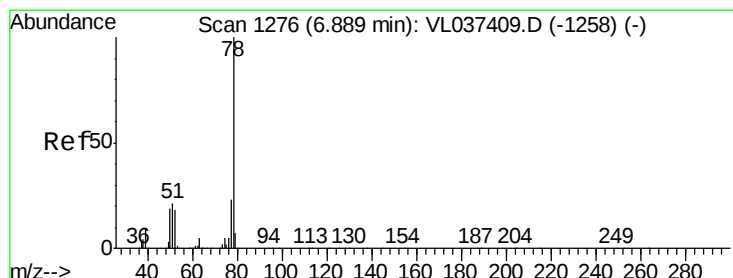
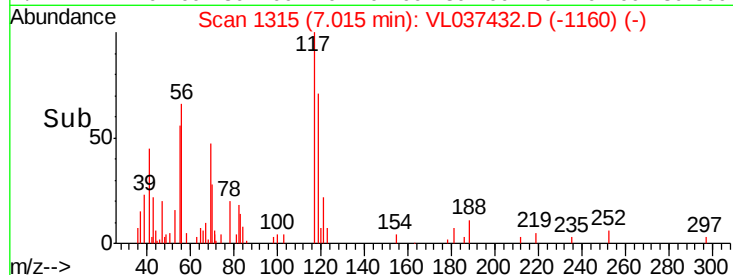
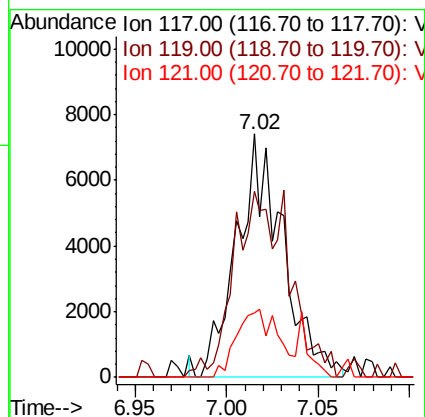
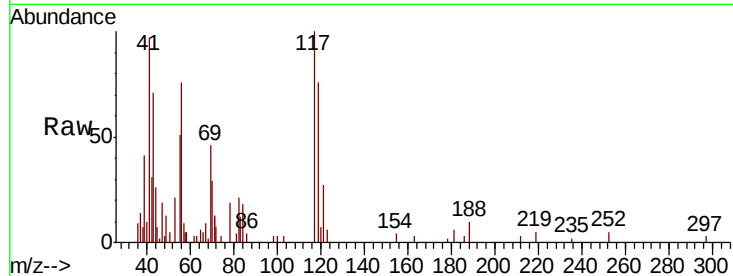
#35
Carbon Tetrachloride
Concen: 0.055 ppbv m
RT: 7.02 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
117	100		
119	76.2	77.5	116.3#
121	26.7	24.7	37.1

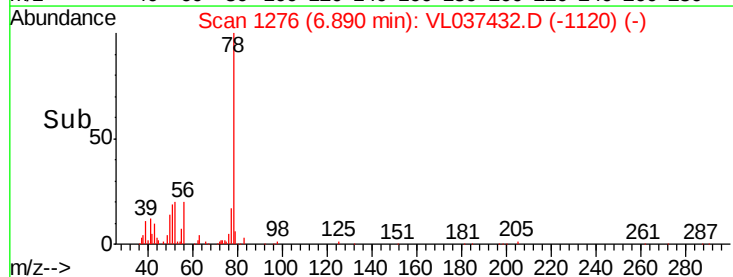
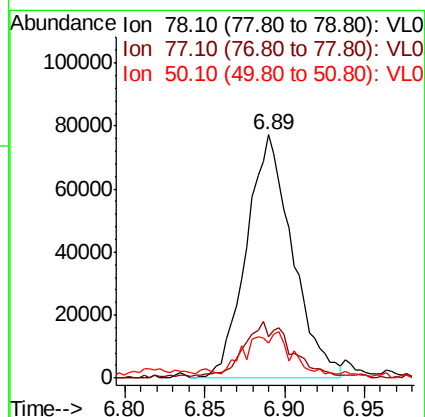
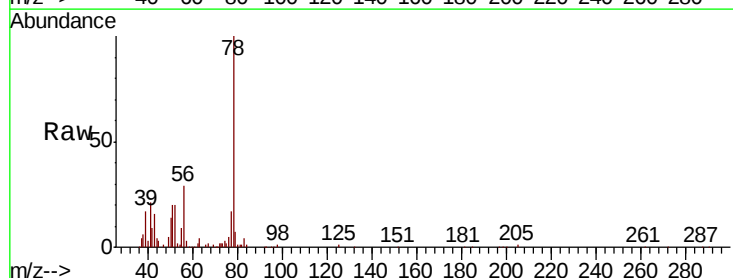
Manual Integrations
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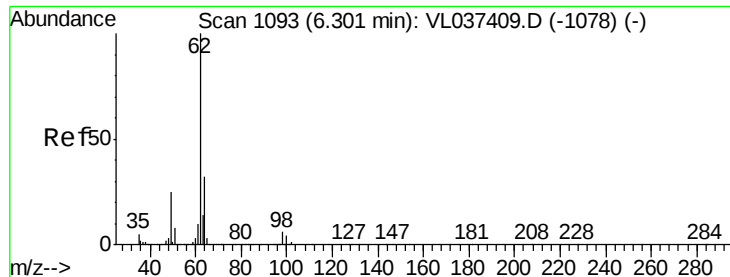
apatel
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#36
Benzene
Concen: 0.476 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.5	18.6	27.8#
50	12.7	14.9	22.3#





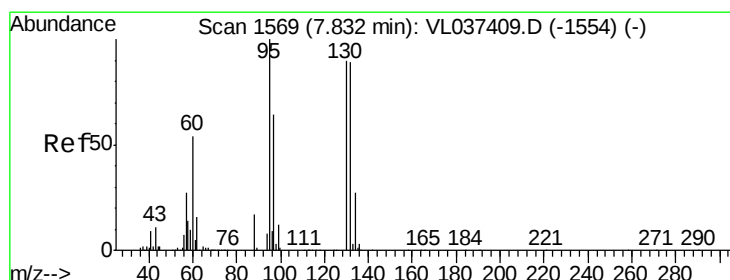
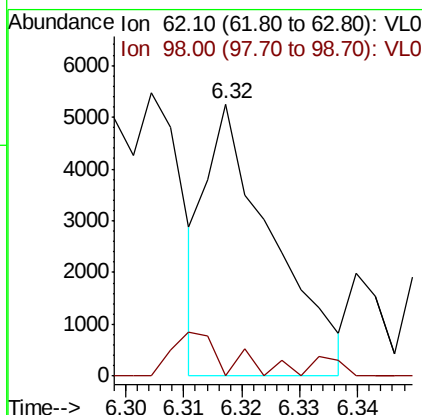
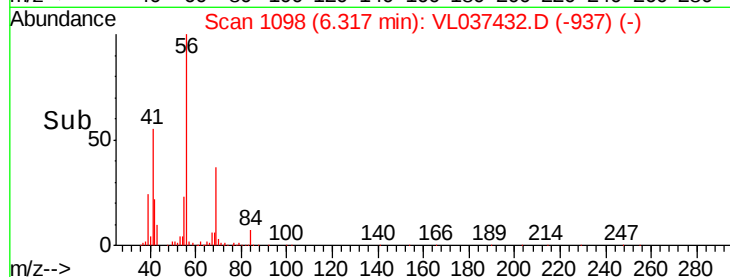
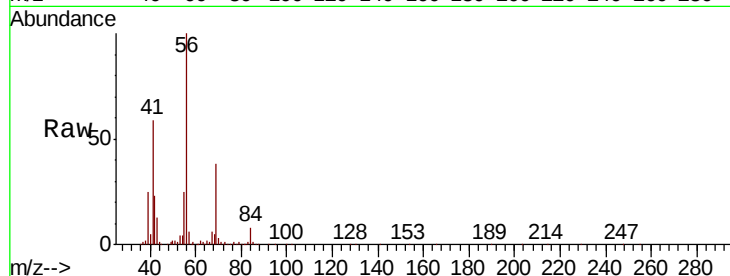
#37
 1,2-Dichloroethane
 Concen: 0.026 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. 0.02 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Tot Ion	Ratio	Lower	Upper
62	100		
98	16.8	5.4	8.2#

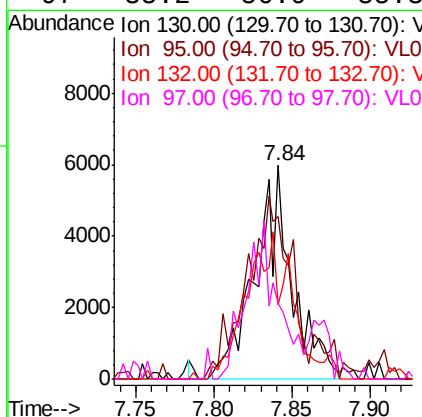
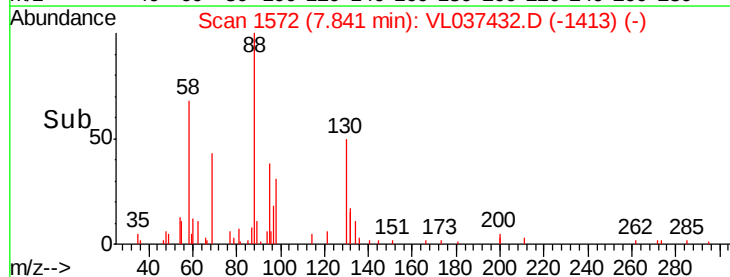
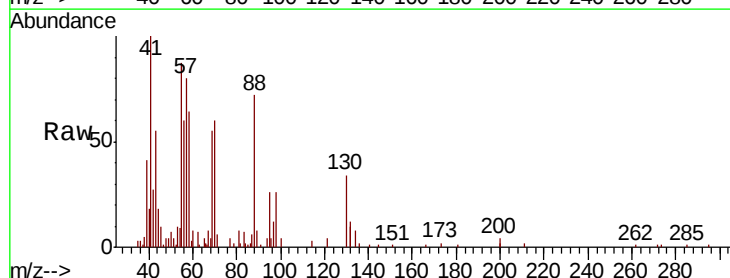
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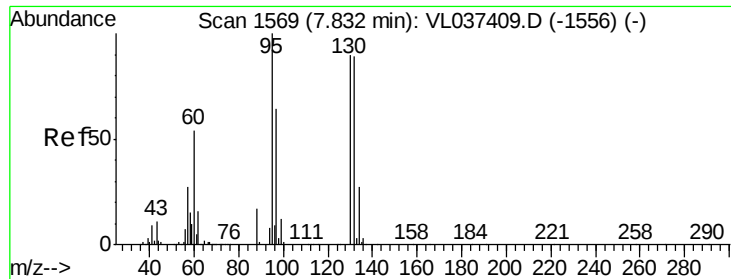
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#38
 Trichloroethene
 Concen: 0.070 ppbv m
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	75.9	88.6	132.8#
132	35.0	79.2	118.8#
97	35.2	56.9	85.3#





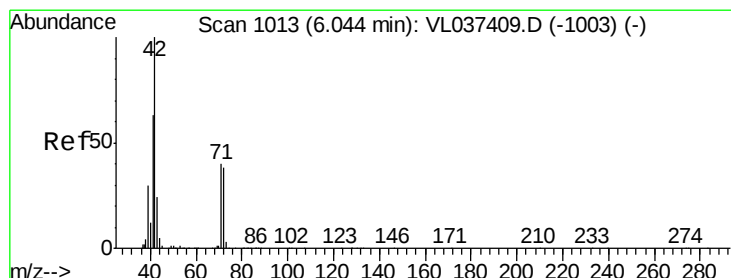
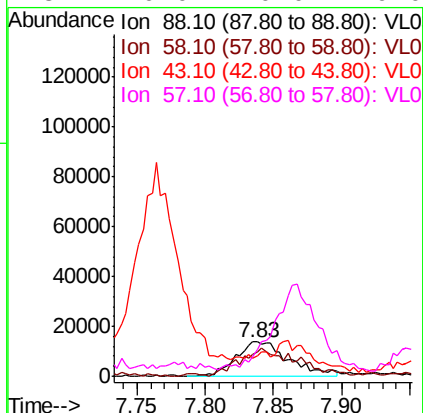
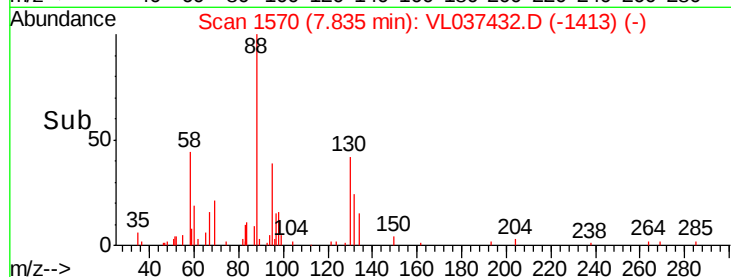
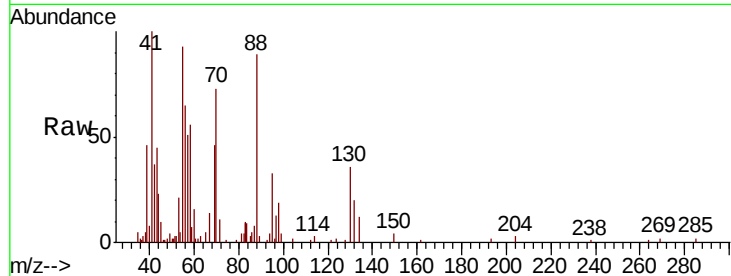
#40
 1,4-Dioxane
 Concen: 1.270 ppbv m
 RT: 7.83 min Scan# 1570
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampled :
 SVP-3RE

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
58	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0

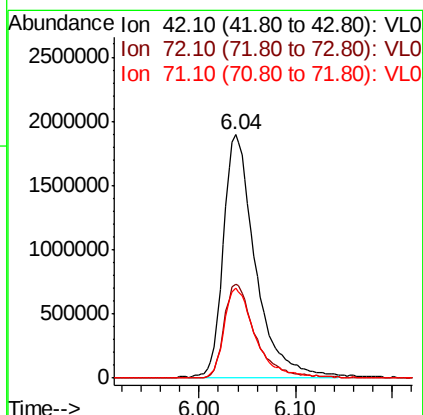
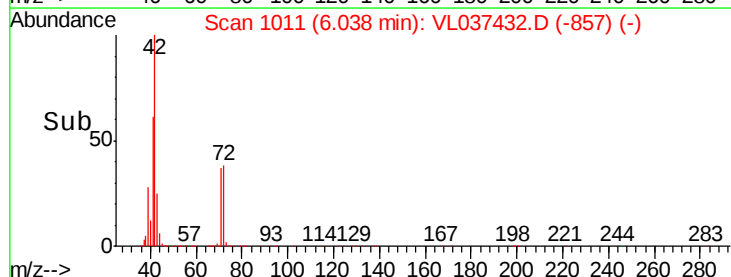
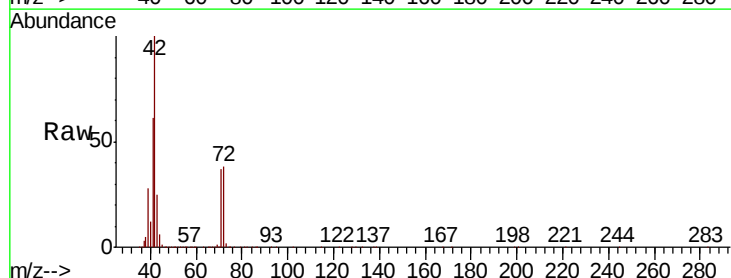
Manual Integrations
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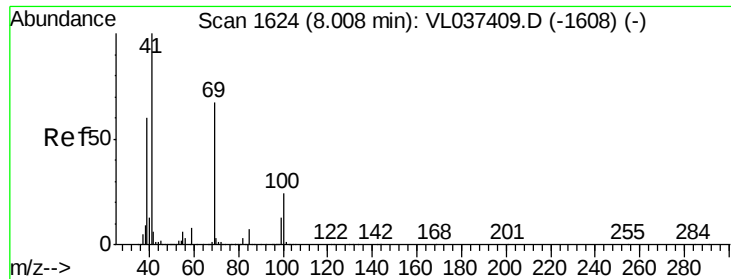
apatel
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#41
 Tetrahydrofuran
 Concen: 60.134 ppbv
 RT: 6.04 min Scan# 1011
 Delta R.T. -0.01 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Resp	Lower	Upper
42	100			
72	38.3	33.5	50.3	
71	37.3	32.6	48.8	





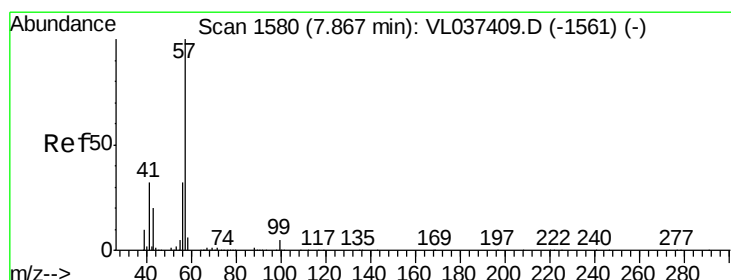
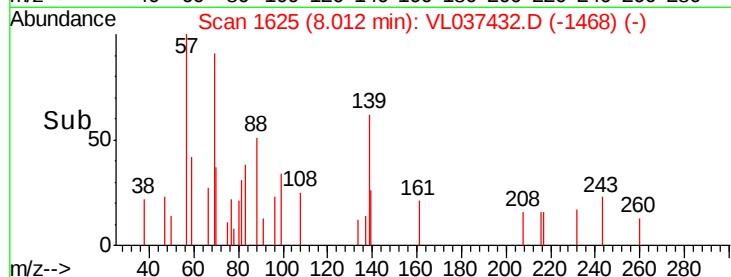
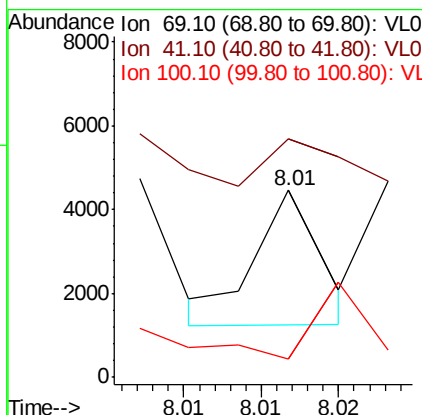
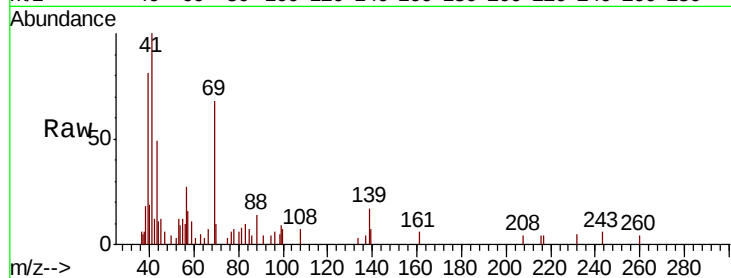
#43
Methvl Methacrilate
Concen: 0.009 ppbv
RT: 8.01 min Scan# 1625
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampled :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.1	177.1#
100	324.8	27.6	41.4#

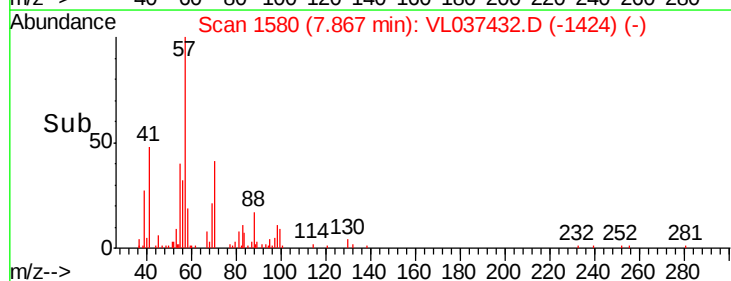
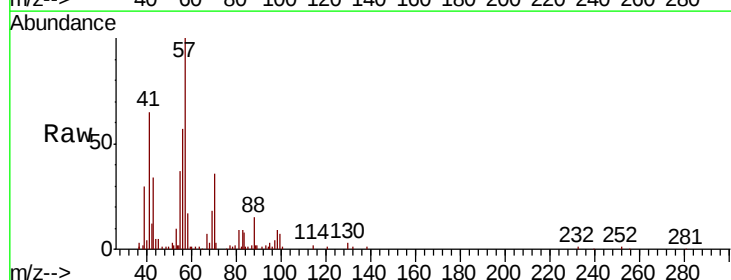
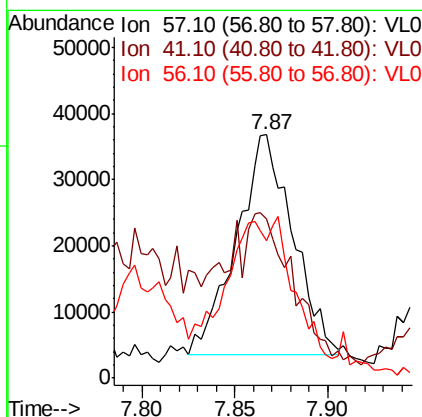
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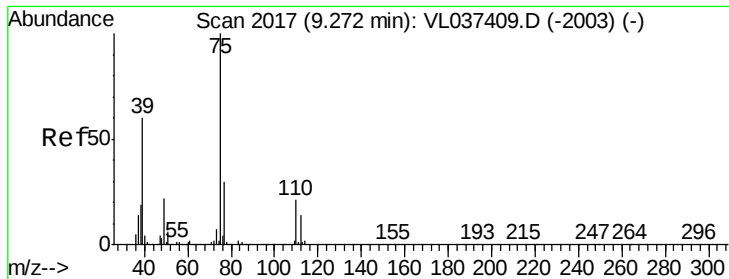
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#44
2,2,4-Trimethylpentane
Concen: 0.131 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.5	26.4	39.6#
56	87.3	25.0	37.4#





#45

t-1,3-Dichloropropene

Concen: 0.002 ppbv

RT: 9.29 min Scan# 2024

Delta R.T. 0.02 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampled :

SVP-3RE

Tot Ion: 75 Resp: 189

Ion Ratio Lower Upper

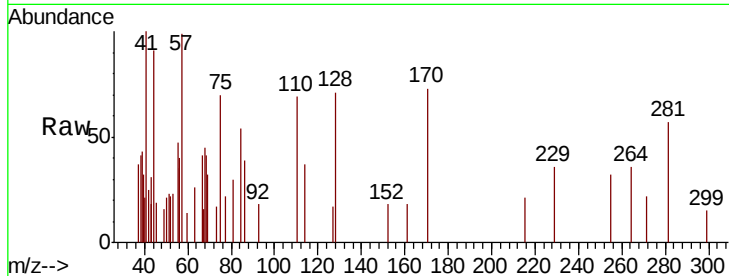
75 100

77 30.9 24.2 36.2

Manual Integrations
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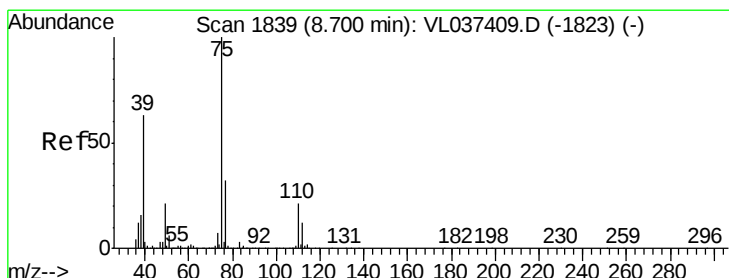
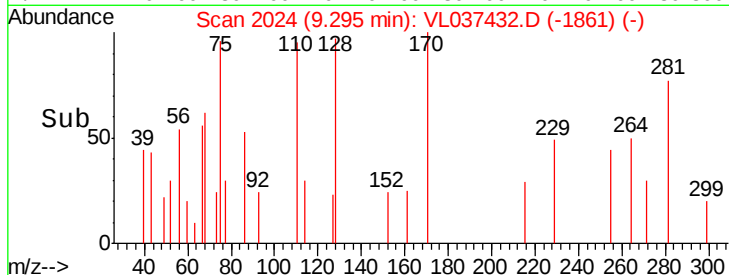
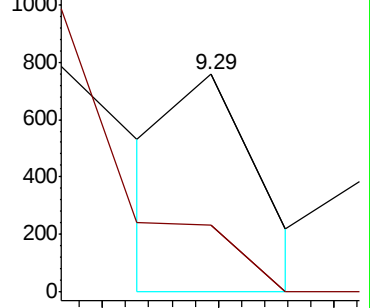
apatel

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.014 ppbv

RT: 8.71 min Scan# 1843

Delta R.T. 0.01 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

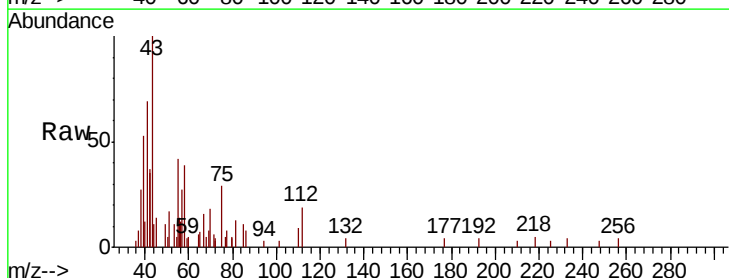
Tgt Ion: 75 Resp: 1576

Ion Ratio Lower Upper

75 100

39 4.5 50.1 75.1#

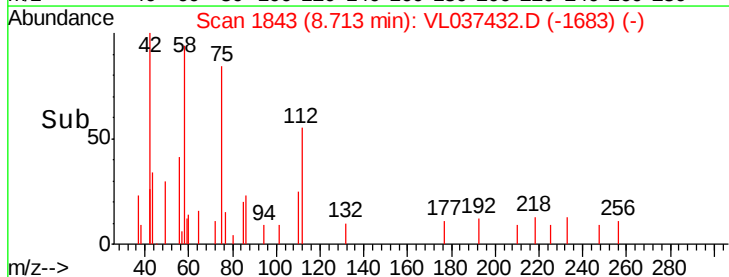
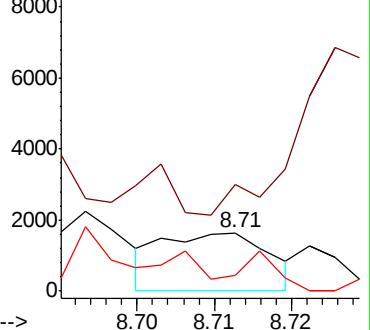
77 10.0 25.8 38.8#

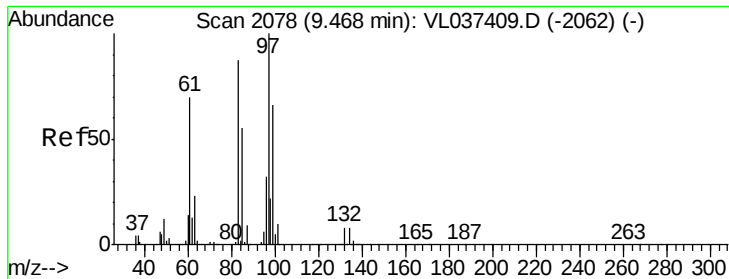


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





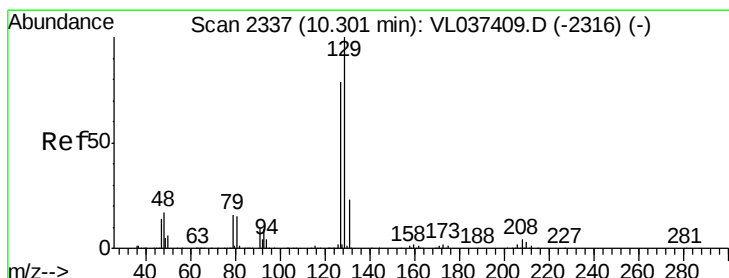
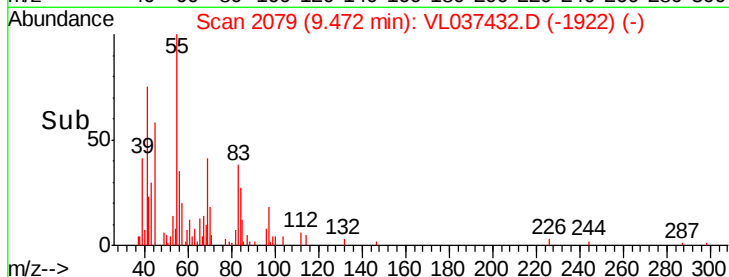
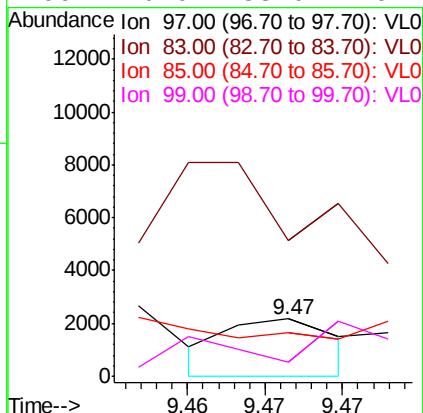
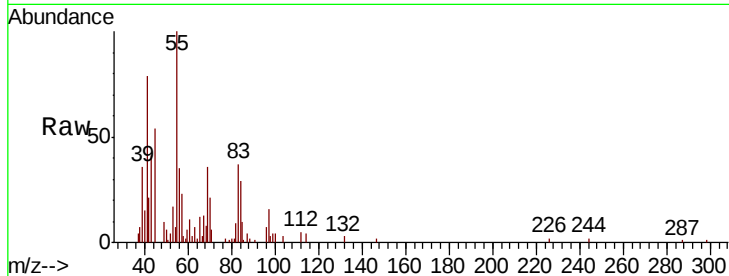
#47
 1,1,2-Trichloroethane
 Concen: 0.008 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		1081		
83	0.0	69.5	104.3#		
85	23.0	43.8	65.8#		
99	0.0	53.0	79.4#		

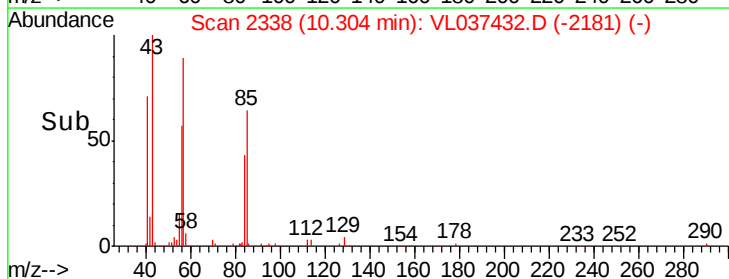
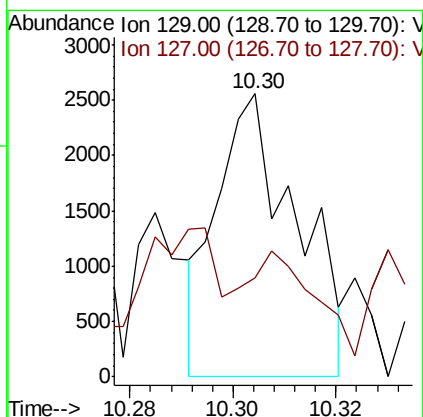
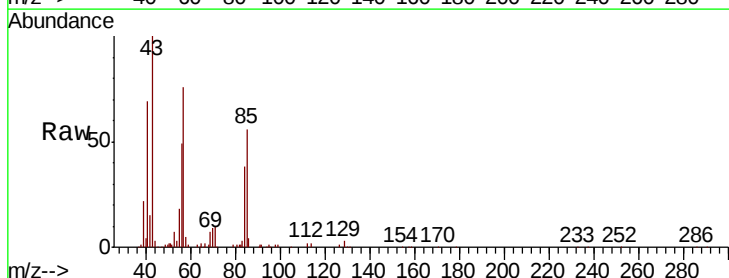
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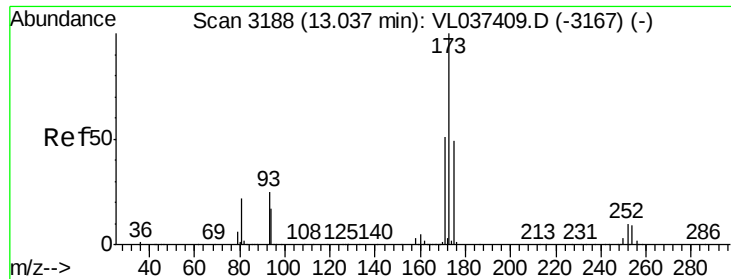
apatel
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#48
 Dibromochloromethane
 Concen: 0.014 ppbv
 RT: 10.30 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		2739		
127	120.0	39.6	118.8#		





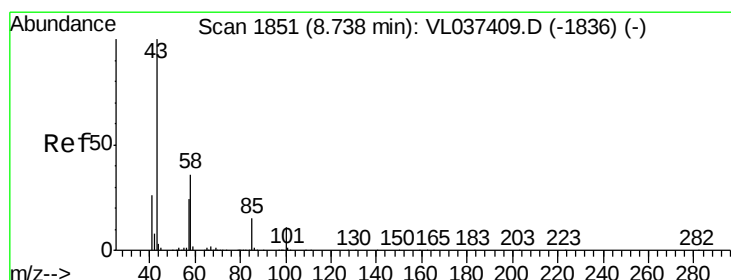
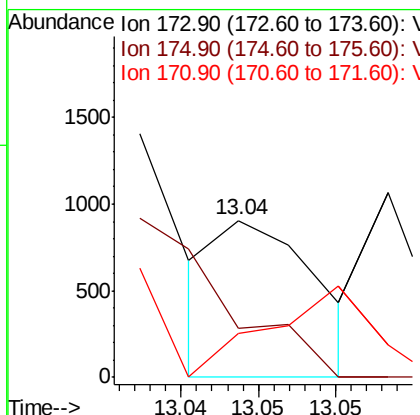
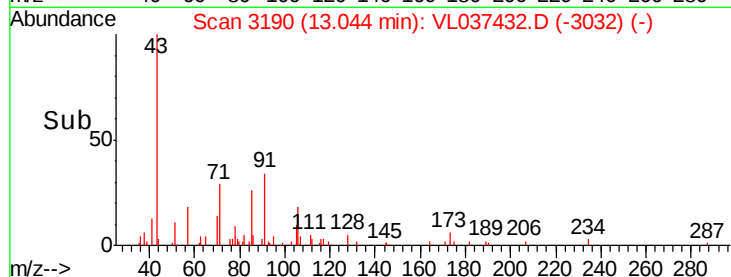
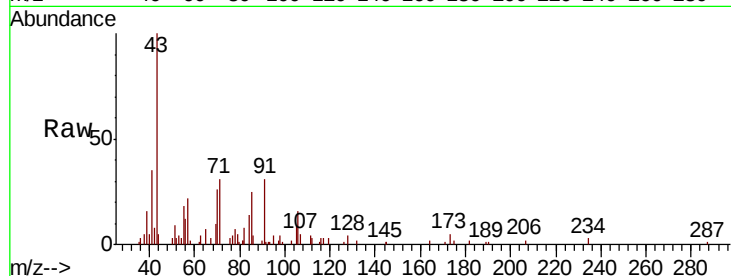
#49
Bromoform
Concen: 0.003 ppbv
RT: 13.04 min Scan# 3190
Delta R.T. 0.01 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampled :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.9	59.9#
171	0.0	41.4	62.2#

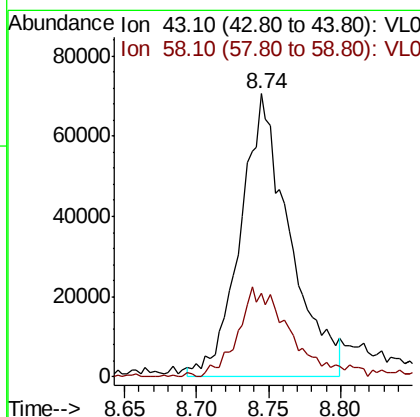
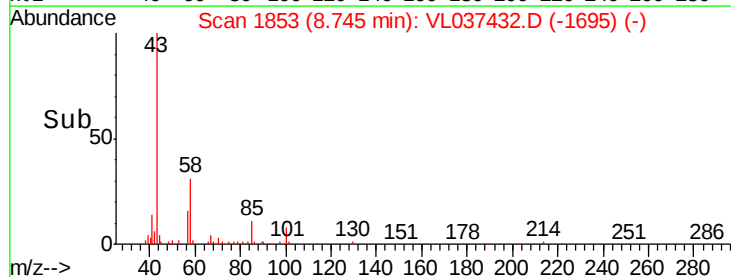
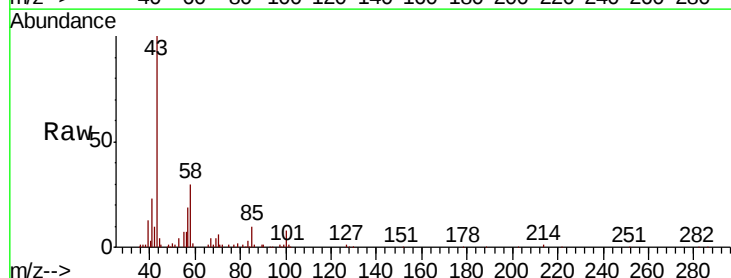
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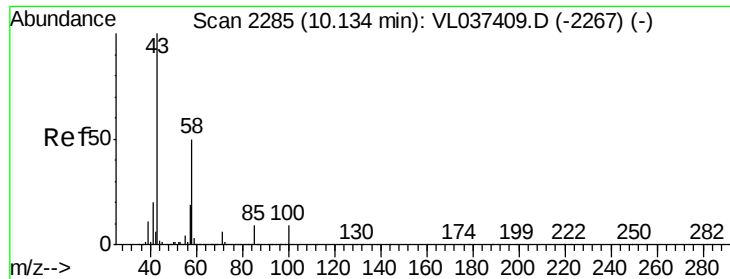
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#50
4-Methyl-2-Pentanone
Concen: 0.857 ppbv m
RT: 8.74 min Scan# 1853
Delta R.T. 0.01 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.6	29.9	44.9





#51

2-Hexanone

Concen: 3.693 ppbv m

RT: 10.12 min Scan# 2280

Delta R.T. -0.02 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-3RE

Tot Ion: 43 Resp: 341093

Ion Ratio Lower Upper

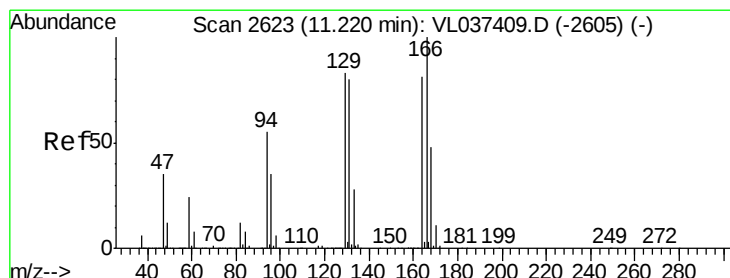
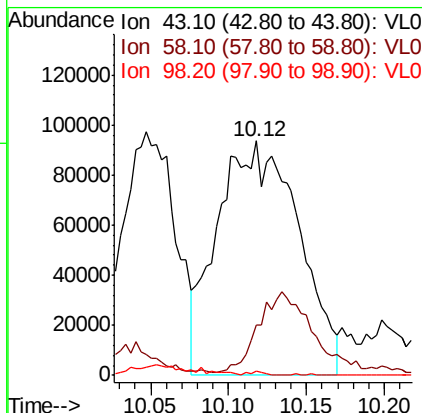
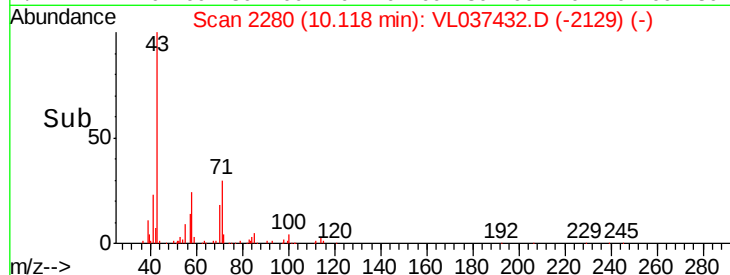
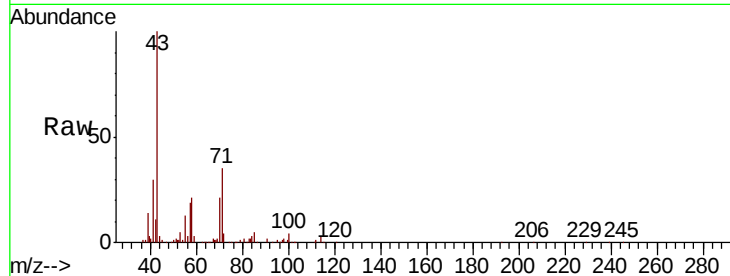
43 100

58 0.0 39.9 59.9#

98 0.0 0.2 0.2#

Manual Integrations
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#52

Tetrachloroethene

Concen: 2.447 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Tgt Ion: 164 Resp: 328466

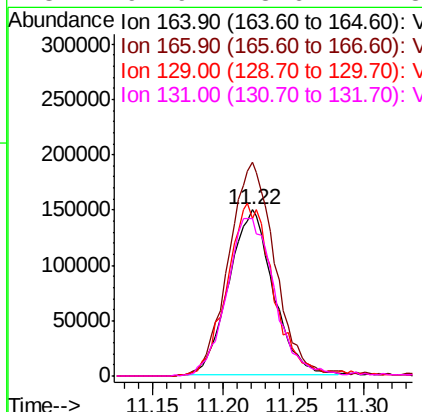
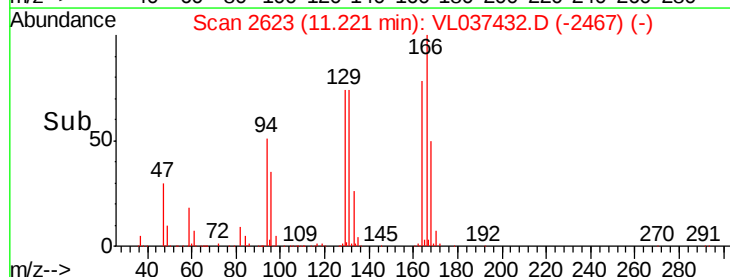
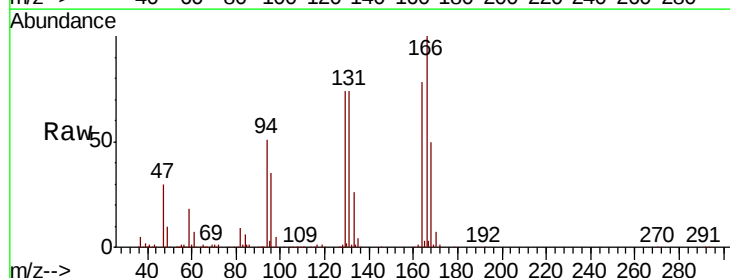
Ion Ratio Lower Upper

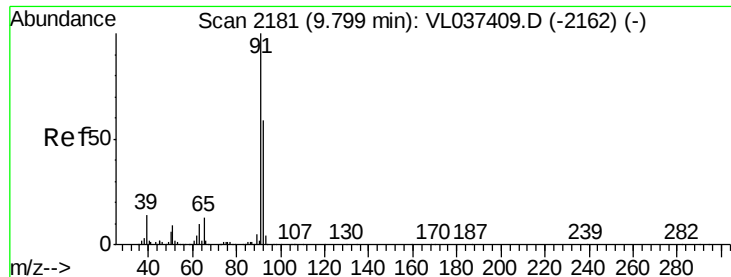
164 100

166 128.3 98.6 147.8

129 94.2 82.0 123.0

131 94.9 78.6 117.8





#53

Toluene

Concen: 1.274 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-3RE

Tot Ion: 91 Resp: 463446

Ion Ratio Lower Upper

91 100

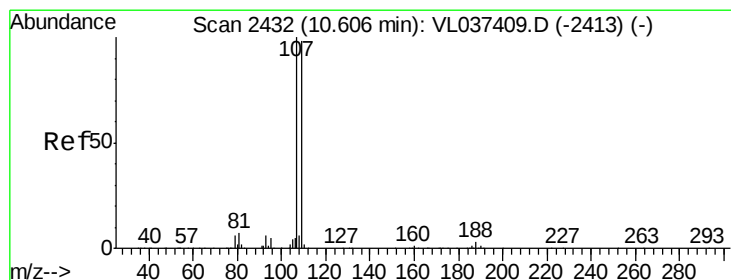
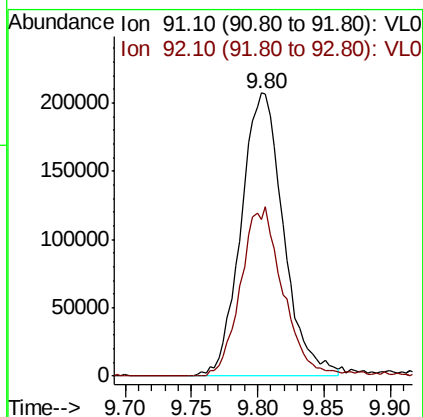
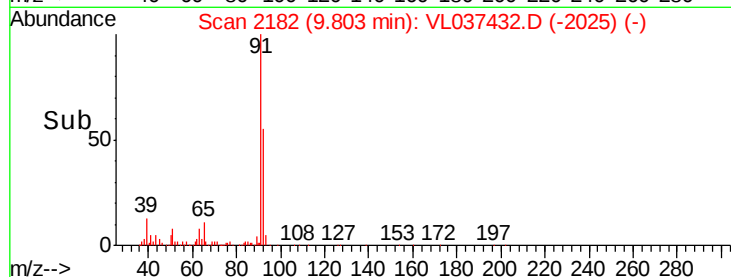
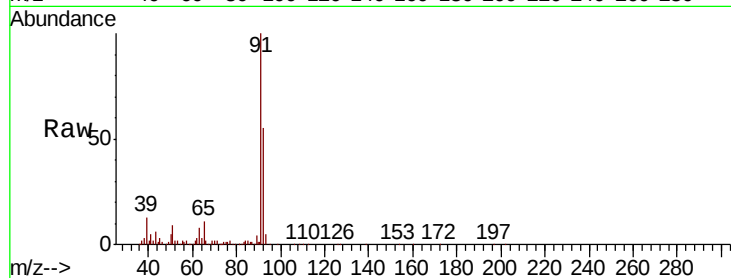
92 59.8 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 0.023 ppbv

RT: 10.61 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL037432.D

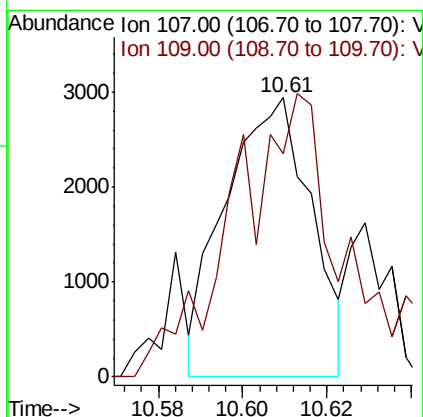
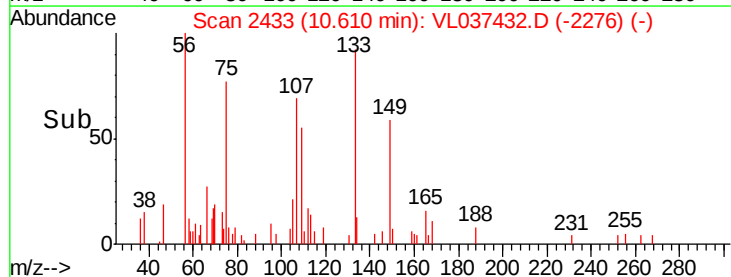
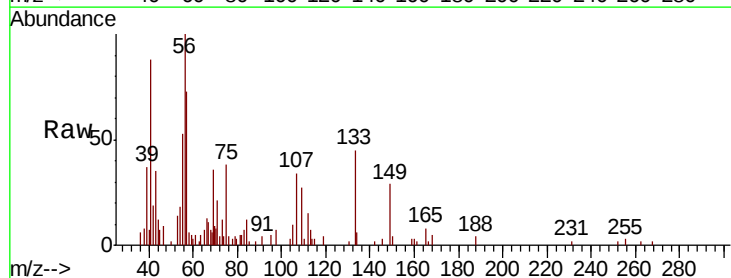
Acq: 13 Aug 2021 3:24

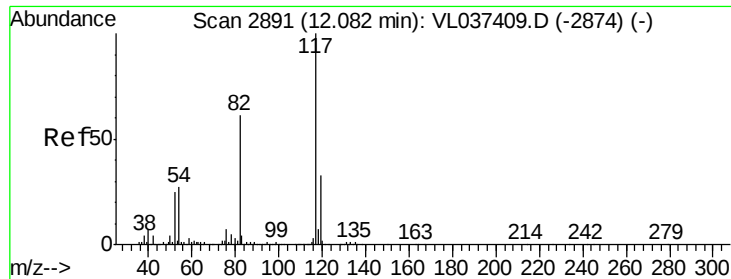
Tgt Ion: 107 Resp: 4164

Ion Ratio Lower Upper

107 100

109 58.1 78.4 117.6#





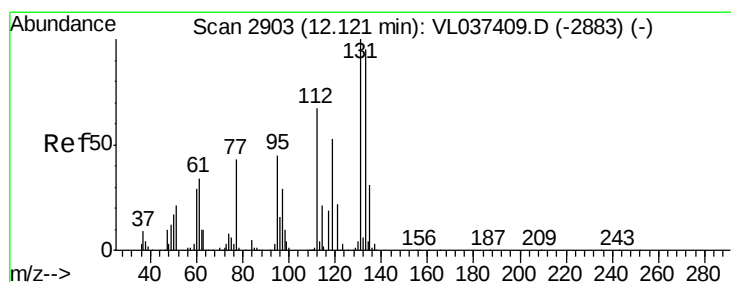
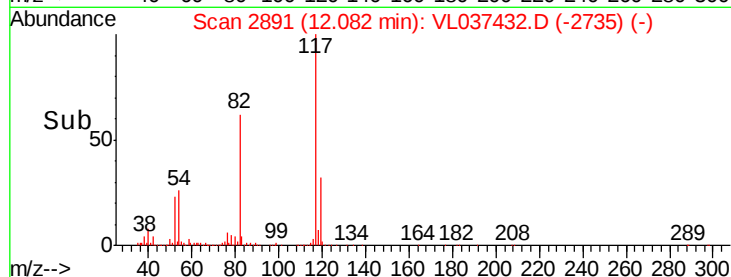
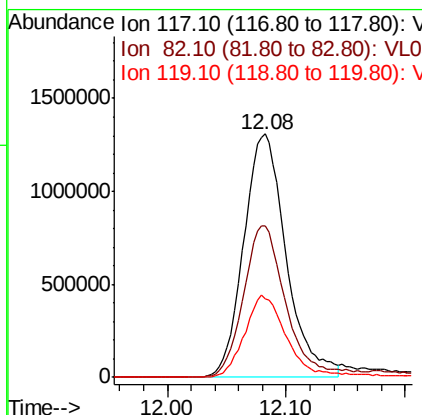
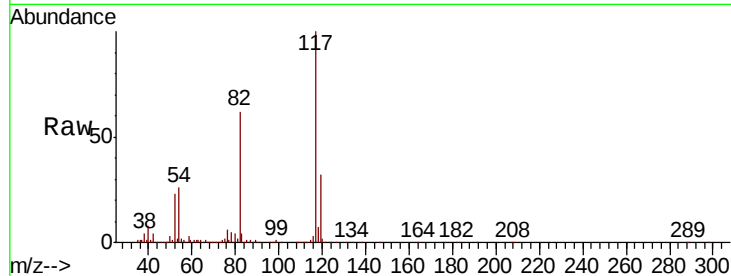
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampleId :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.4	53.1	79.7
119	34.3	28.0	42.0

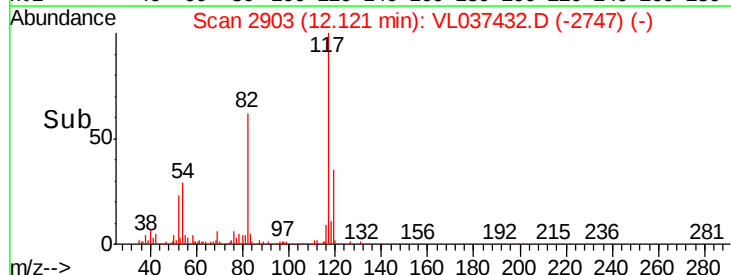
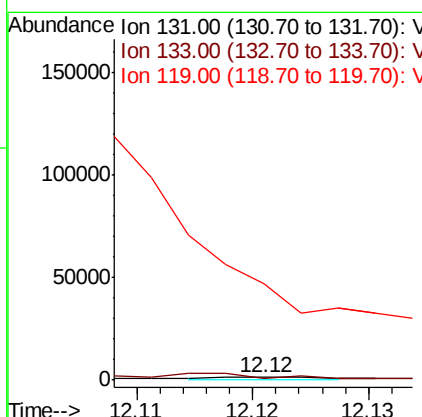
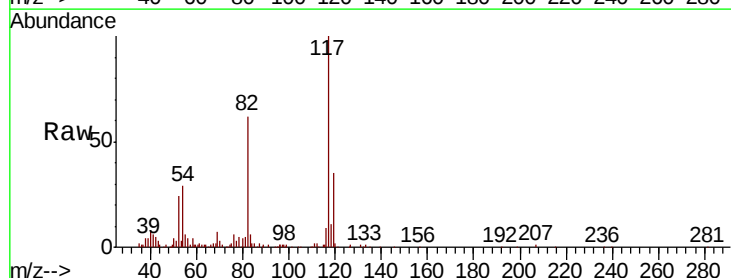
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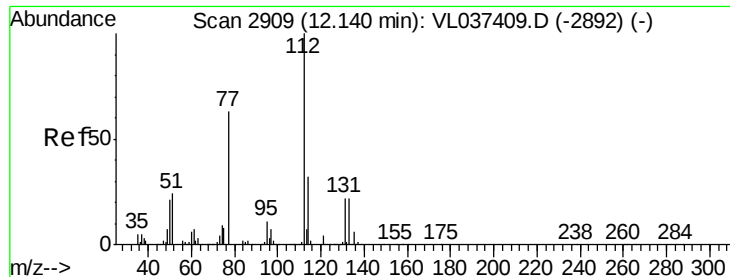
apatel
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.006 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.00 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.1	115.7#
119	0.0	59.7	89.5#





#57

Chlorobenzene

Concen: 0.063 ppbv m

RT: 12.14 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

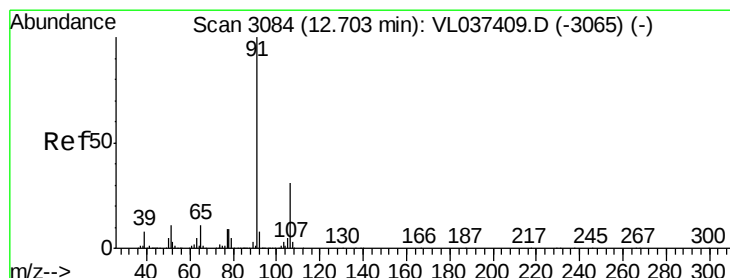
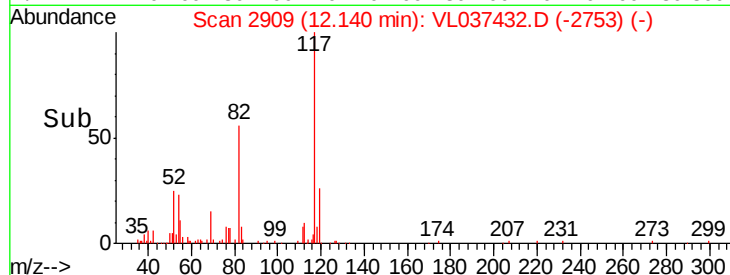
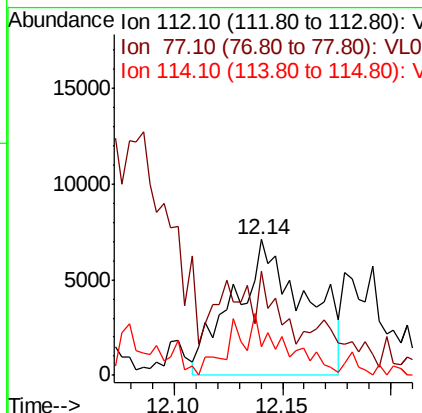
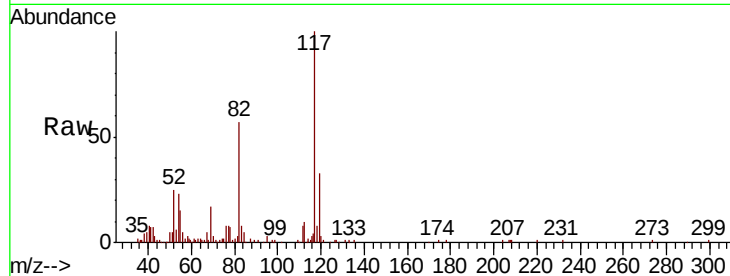
ClientSampleId :

SVP-3RE

Tot Ion	Ratio	Resp	Lower	Upper
112	100	16435		
77	76.7	50.0	75.0#	
114	20.7	28.5	34.9#	

Manual Integrations
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#58

Ethyl Benzene

Concen: 0.286 ppbv m

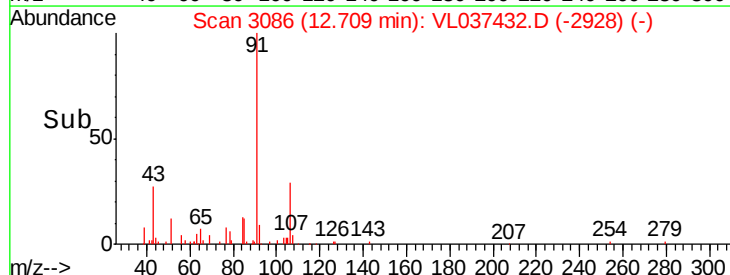
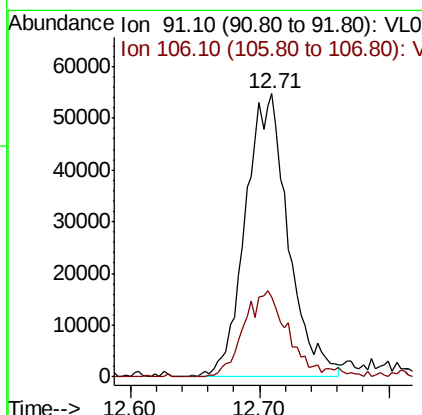
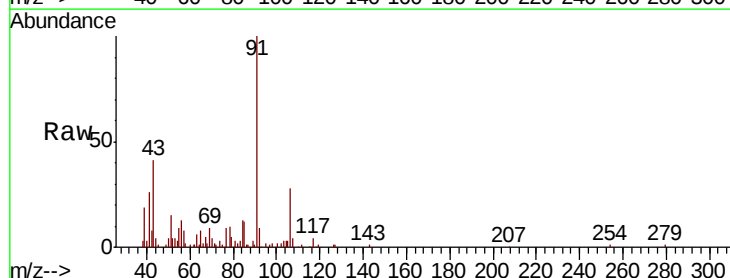
RT: 12.71 min Scan# 3086

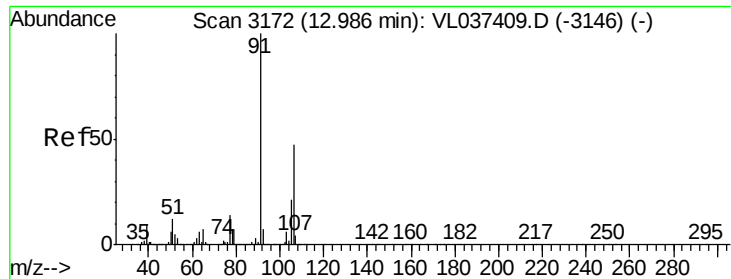
Delta R.T. 0.01 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	125809		
106	28.3	24.7	37.1	





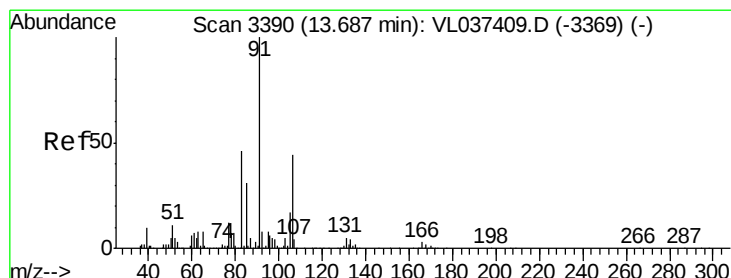
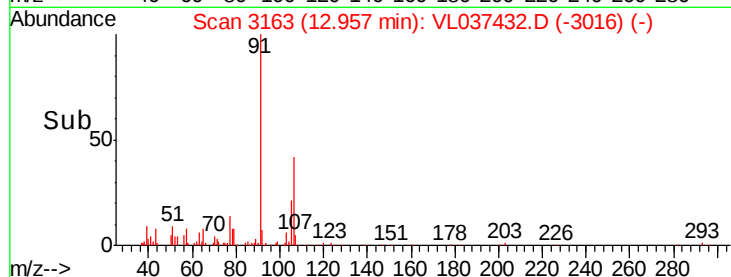
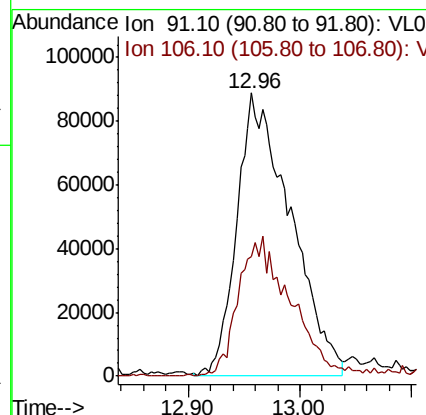
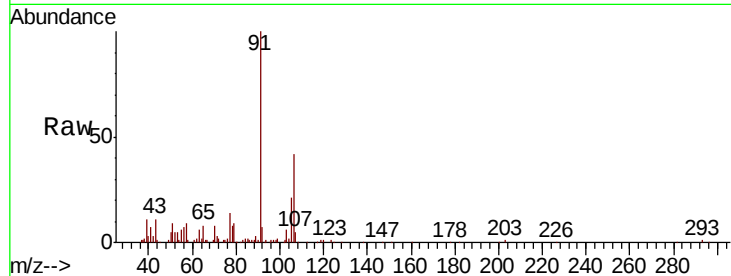
#59
m/p-Xylene
Concen: 0.765 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.03 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Instrument :
MSVOA_L
ClientSampled :
SVP-3RE

Tot Ion	91	Resp	295307
Ion Ratio	100	Lower	Upper
106	47.9	36.6	54.8

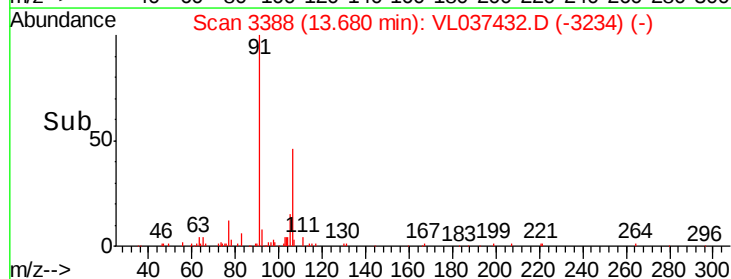
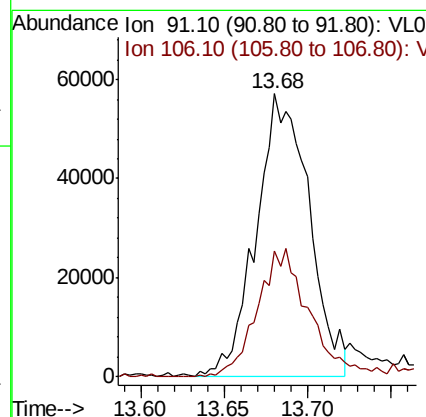
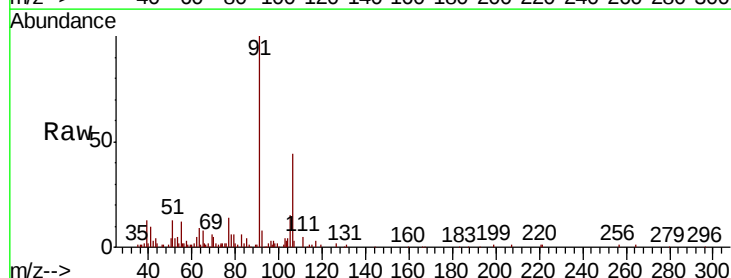
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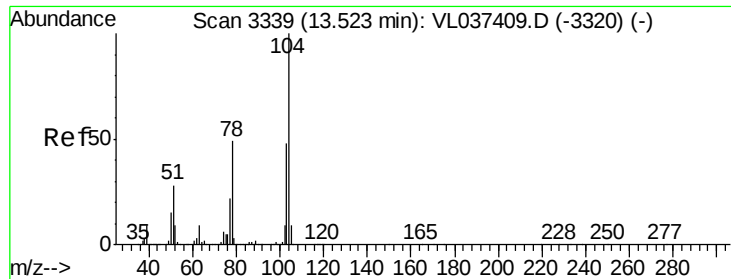
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#60
o-Xylene
Concen: 0.351 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037432.D
Acq: 13 Aug 2021 3:24

Tgt Ion	91	Resp	125908
Ion Ratio	100	Lower	Upper
106	44.7	24.1	72.2





#61

Stvrene

Concen: 0.123 ppbv m

RT: 13.53 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

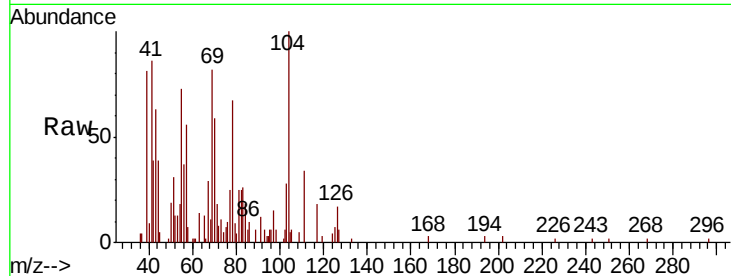
ClientSampleId :

SVP-3RE

Tot Ion	Ratio	Resp	Lower	Upper
104	100	22237		
78	48.1		41.5	62.3
103	0.0		40.2	60.2#

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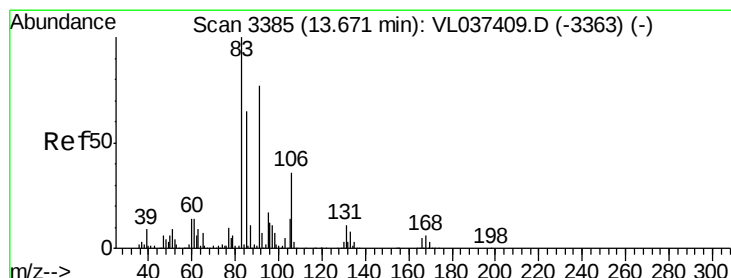
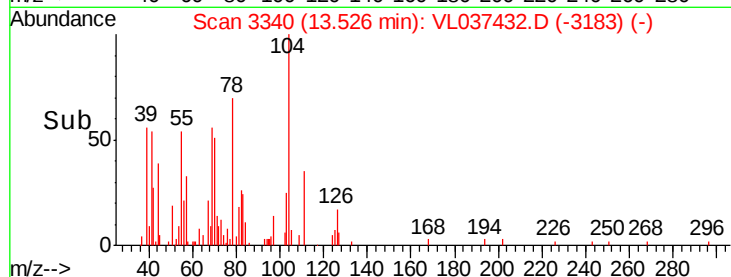
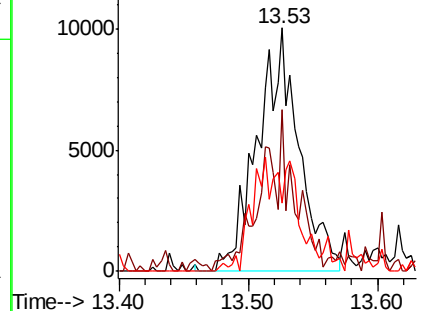
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.046 ppbv m

RT: 13.66 min Scan# 3382

Delta R.T. -0.01 min

Lab File: VL037432.D

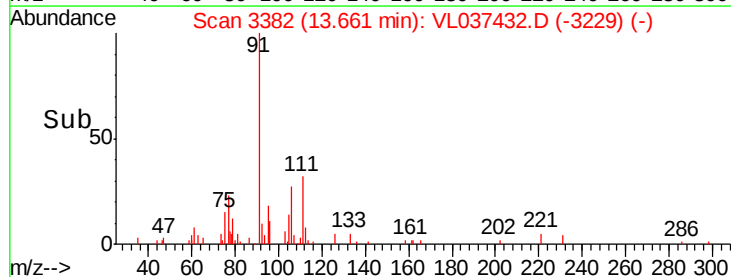
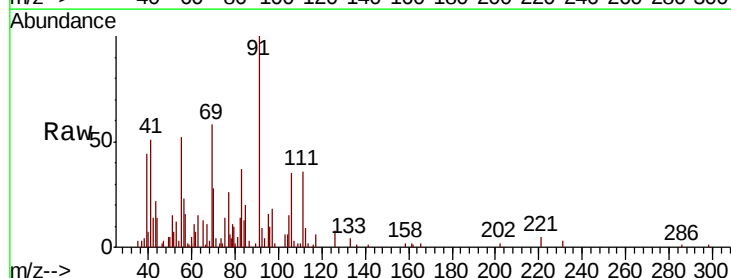
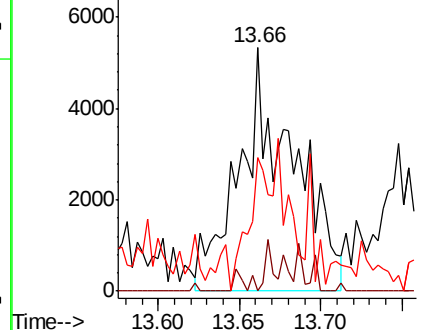
Acq: 13 Aug 2021 3:24

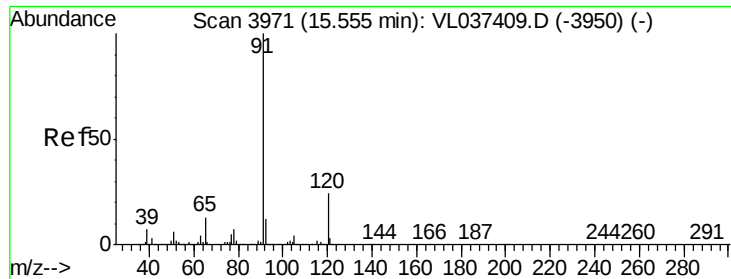
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	12350		
131	10.2		5.1	15.4
85	42.5		33.4	100.2

Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.091 ppbv m

RT: 15.55 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampleId :

SVP-3RE

Tot Ion:120 Resp: 11691

Ion Ratio Lower Upper

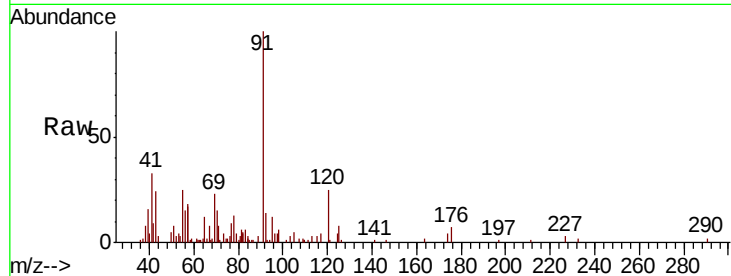
120 100

91 0.0 388.4 582.6#

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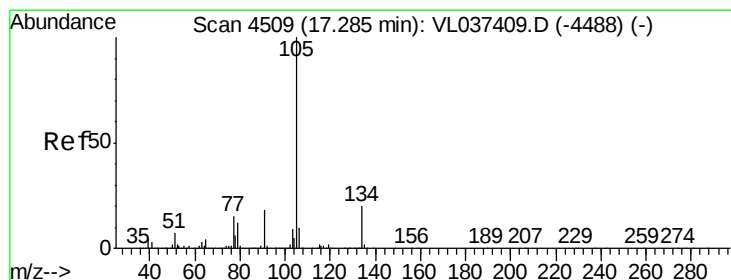
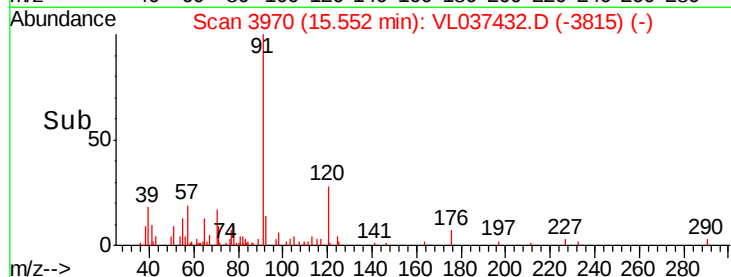
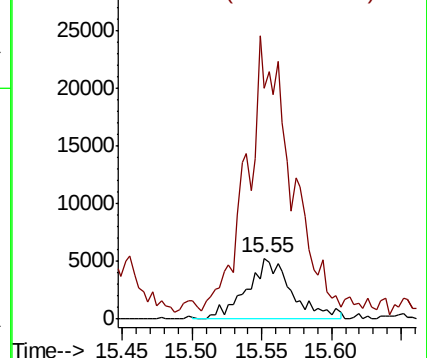
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#67

sec-Butylbenzene

Concen: 0.024 ppbv

RT: 17.28 min Scan# 4509

Delta R.T. 0.00 min

Lab File: VL037432.D

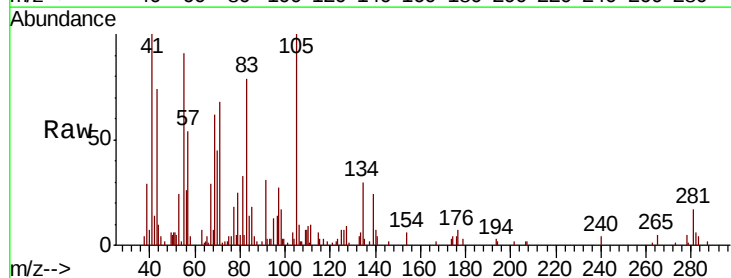
Acq: 13 Aug 2021 3:24

Tgt Ion:105 Resp: 15241

Ion Ratio Lower Upper

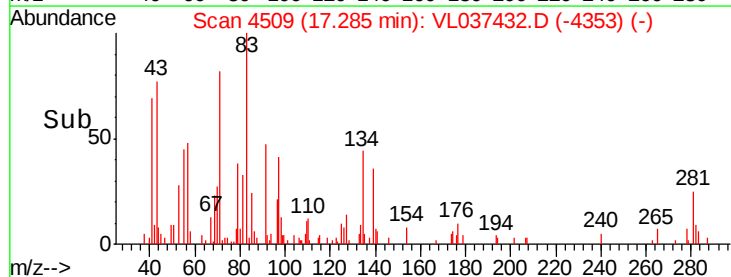
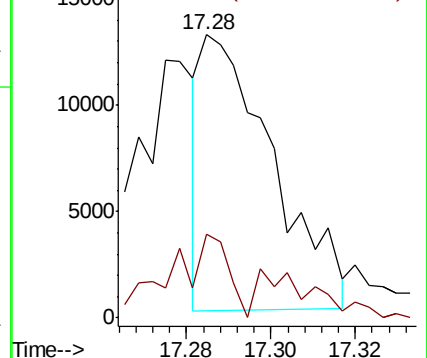
105 100

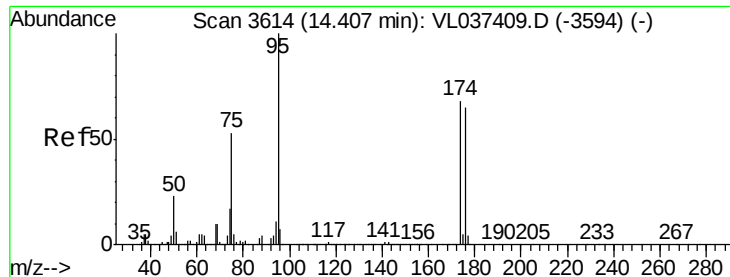
134 42.8 15.4 23.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V





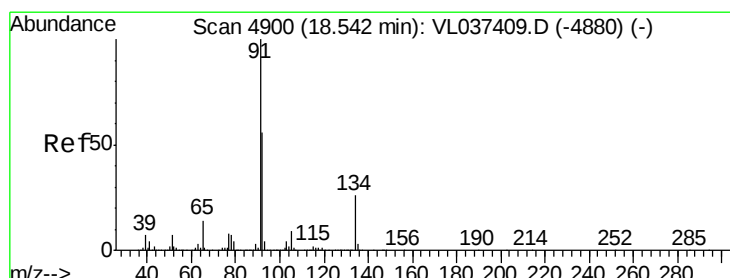
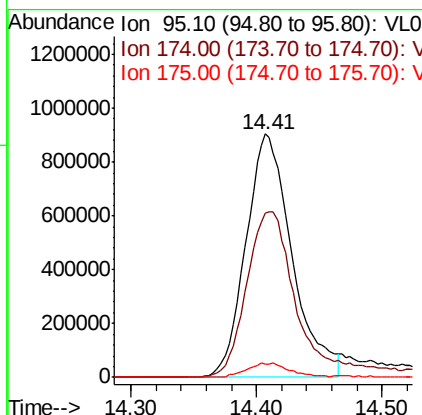
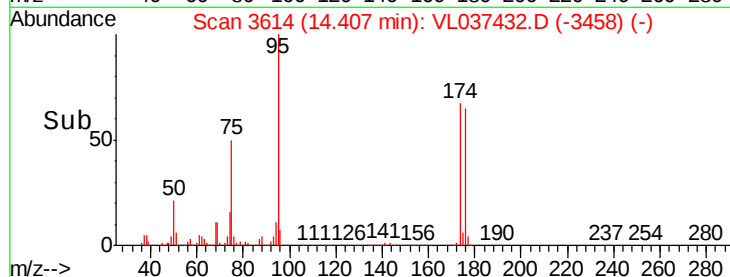
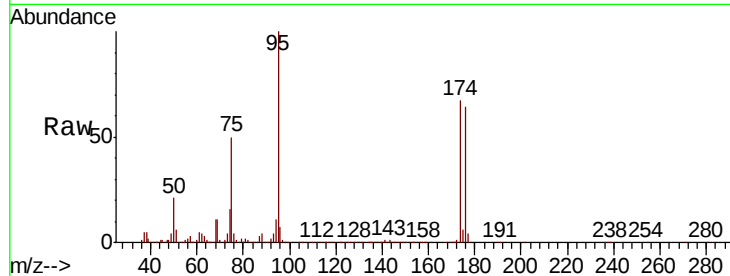
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.951 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Tot Ion: 95 Resp: 2312967
 Ion Ratio Lower Upper
 95 100
 174 79.0 59.6 89.4
 175 6.4 4.3 6.5

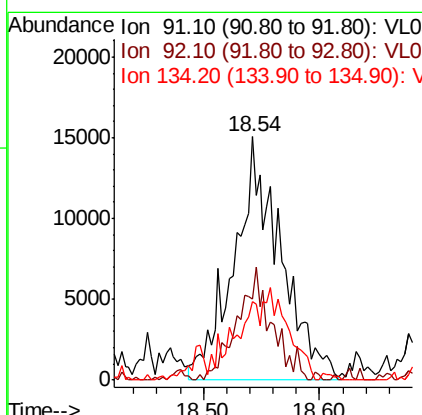
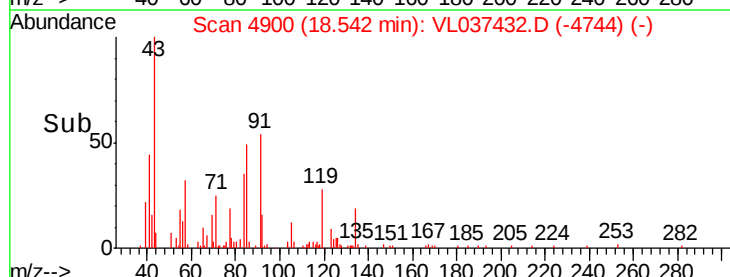
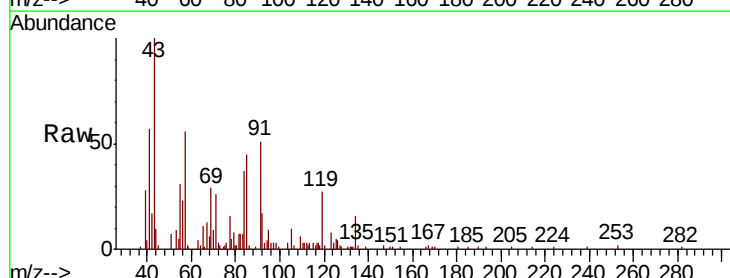
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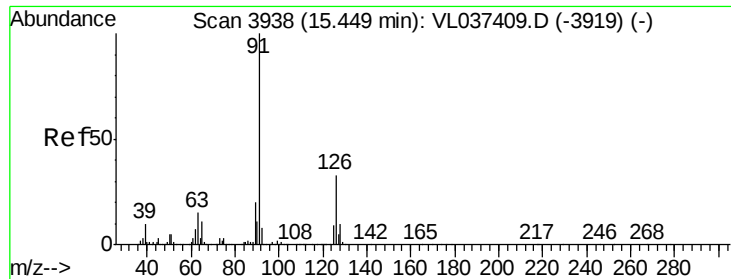
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#70
 n-Butylbenzene
 Concen: 0.087 ppbv m
 RT: 18.54 min Scan# 4900
 Delta R.T. 0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion: 91 Resp: 41869
 Ion Ratio Lower Upper
 91 100
 92 0.0 44.2 66.2#
 134 0.0 19.5 29.3#





#71

2-Chlorotoluene

Concen: 0.003 ppbv

RT: 15.50 min Scan# 3953

Delta R.T. 0.05 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampled :

SVP-3RE

Tot Ion: 91 Resp: 1176

Ion Ratio Lower Upper

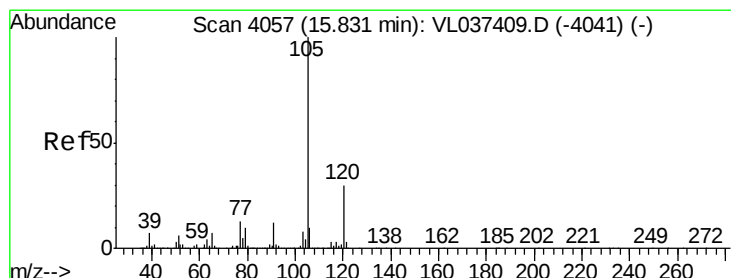
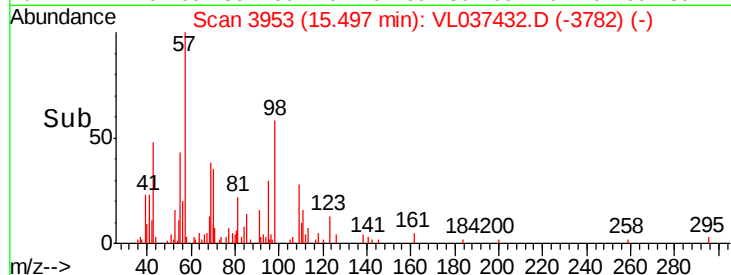
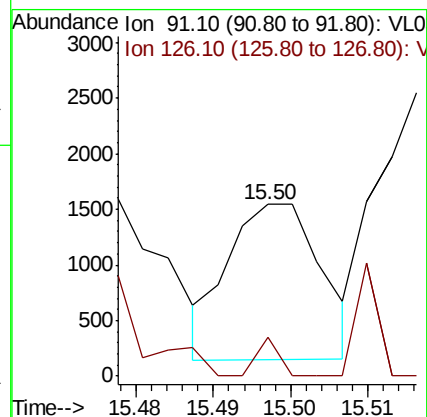
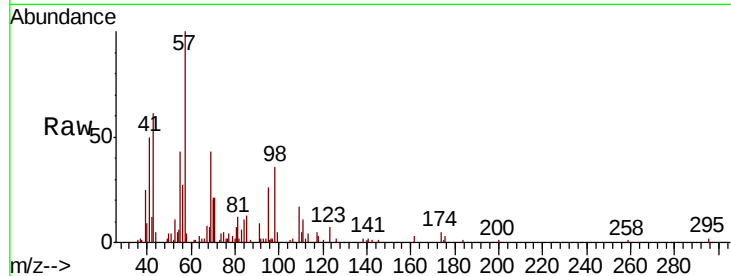
91 100

126 27.2 13.5 53.9

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#72

4-Ethyltoluene

Concen: 0.121 ppbv m

RT: 15.83 min Scan# 4058

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Tgt Ion: 105 Resp: 50546

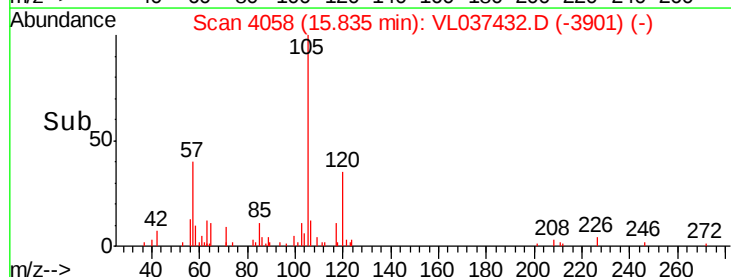
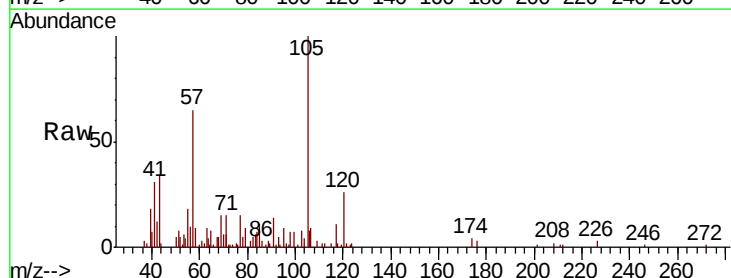
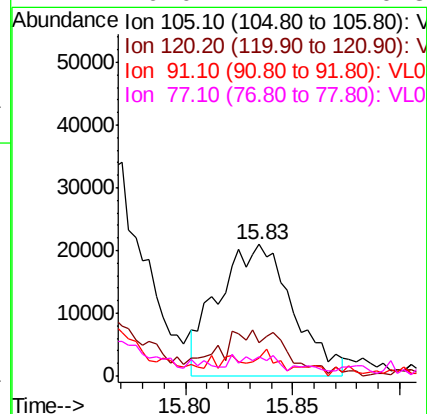
Ion Ratio Lower Upper

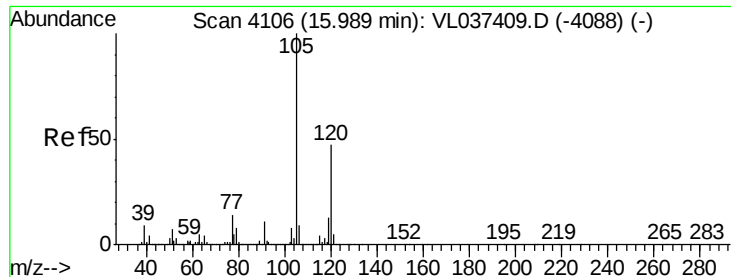
105 100

120 33.8 25.0 37.4

91 13.6 11.2 16.8

77 0.0 11.2 16.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.152 ppbv

RT: 15.99 min Scan# 4106

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

ClientSampled :

SVP-3RE

Tot Ion:105 Resp: 59799

Ion Ratio Lower Upper

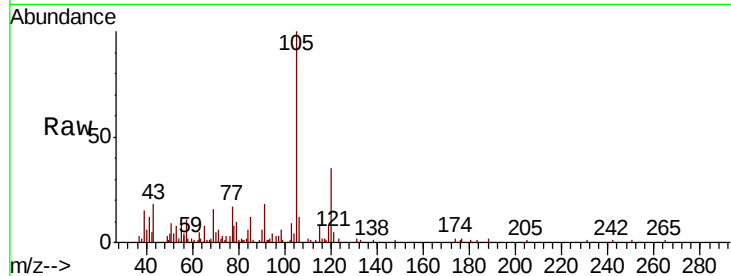
105 100

120 35.4 37.4 56.0#

Manual Integrations
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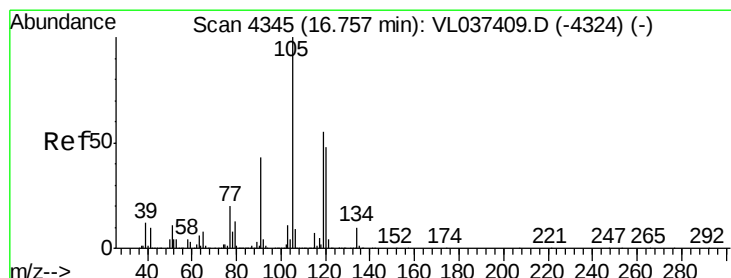
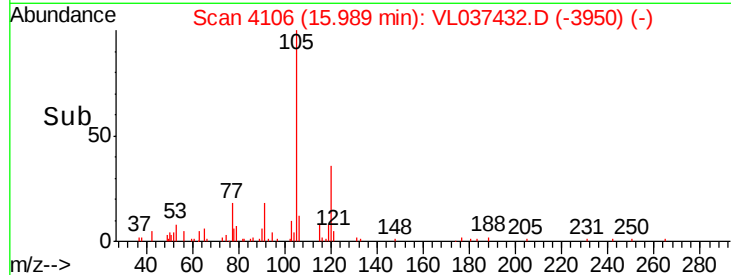
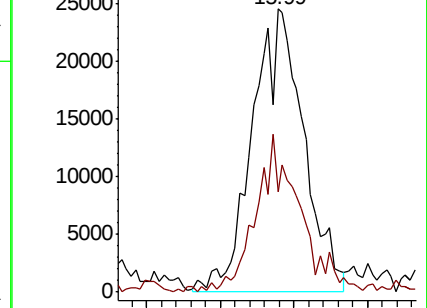
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.380 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Tgt Ion:105 Resp: 153258

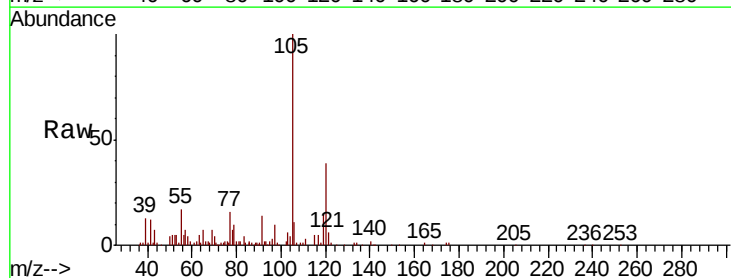
Ion Ratio Lower Upper

105 100

120 37.6 38.2 57.2#

91 12.5 35.4 53.2#

77 13.4 16.2 24.2#

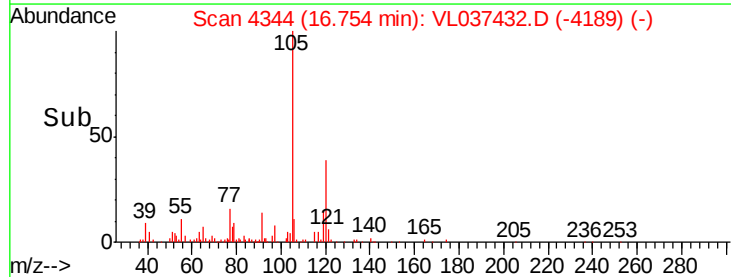
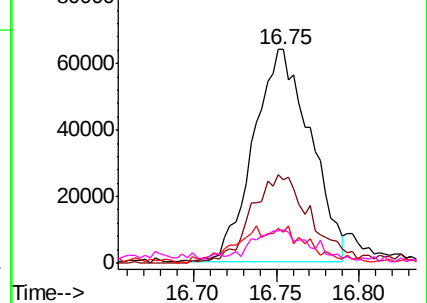


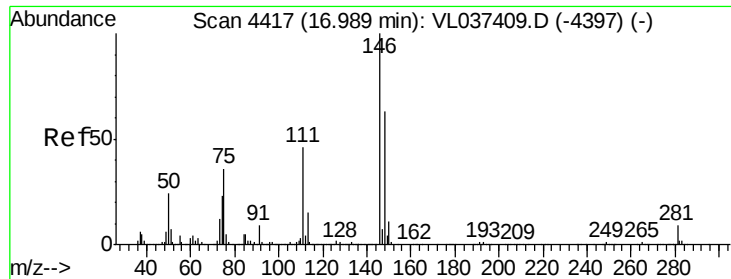
Abundance Ion 105.10 (104.80 to 105.80): V

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





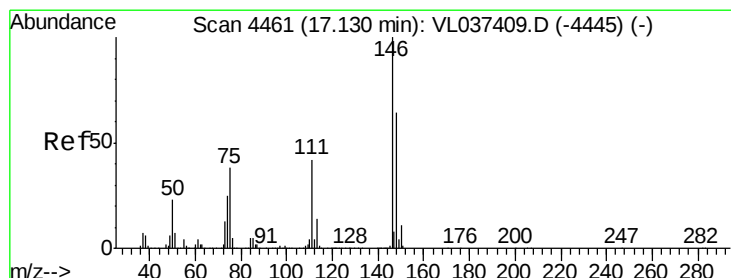
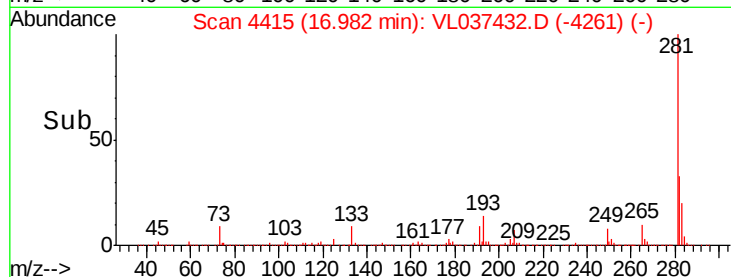
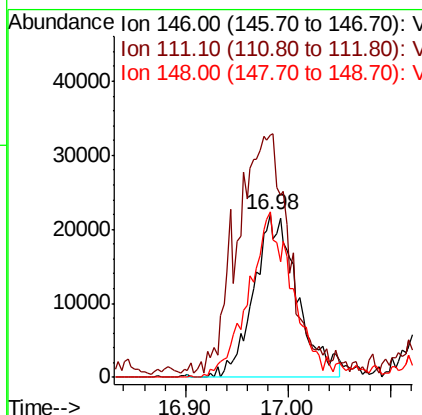
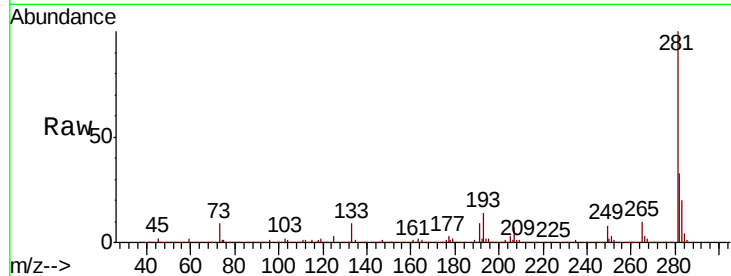
#75
 1,3-Dichlorobenzene
 Concen: 0.263 ppbv m
 RT: 16.98 min Scan# 4415
 Delta R.T. -0.01 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.9	68.7#
148	0.0	32.0	96.2#

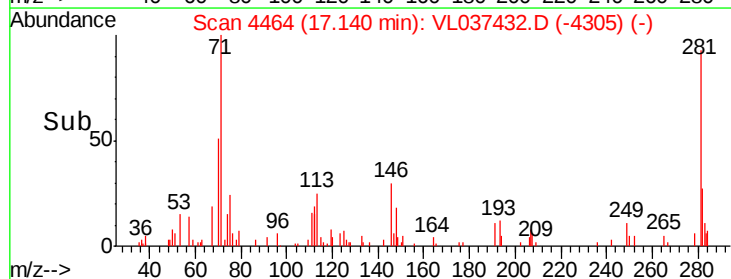
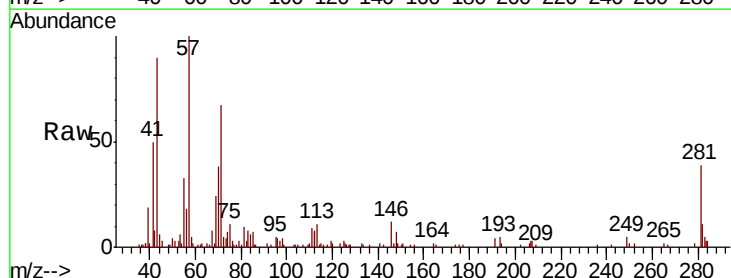
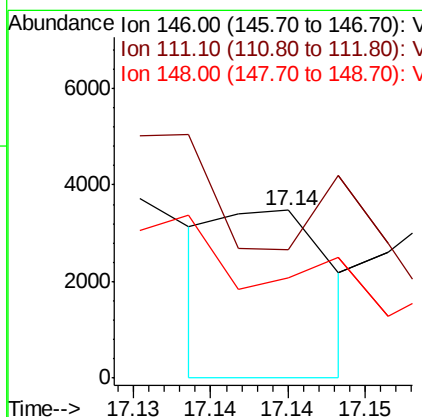
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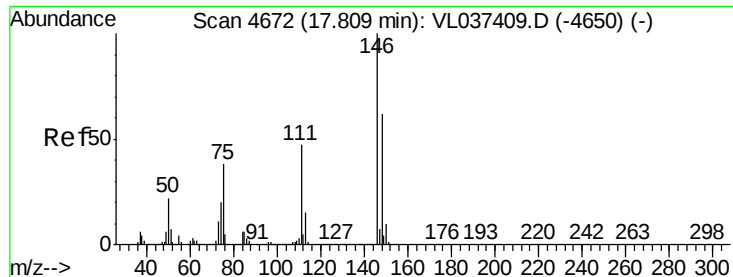
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#76
 1,4-Dichlorobenzene
 Concen: 0.007 ppbv
 RT: 17.14 min Scan# 4464
 Delta R.T. 0.01 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.8	68.4#
148	447.0	34.0	102.0#





#77

1,2-Dichlorobenzene

Concen: 0.007 ppbv

RT: 17.81 min Scan# 4672

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

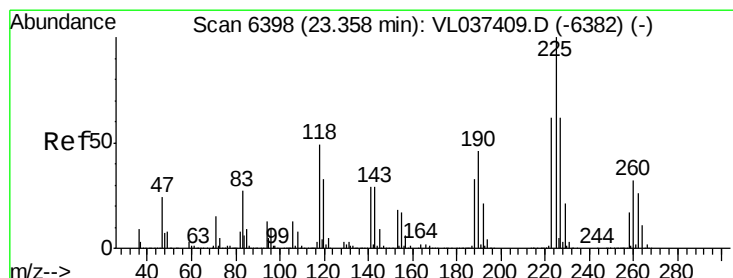
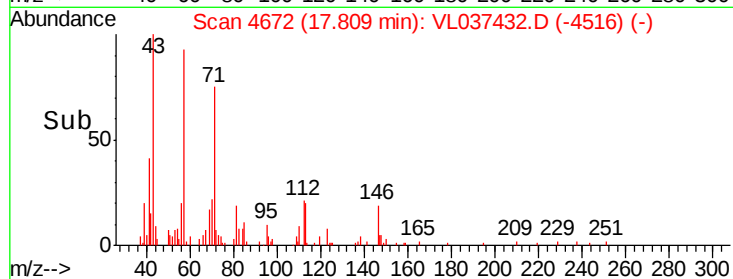
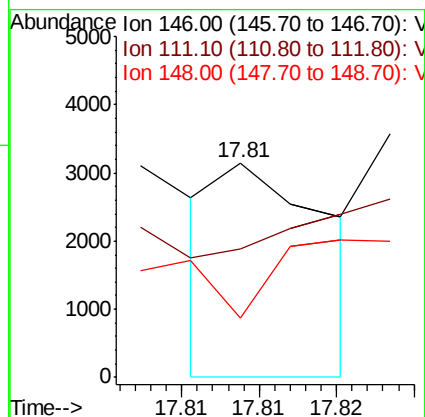
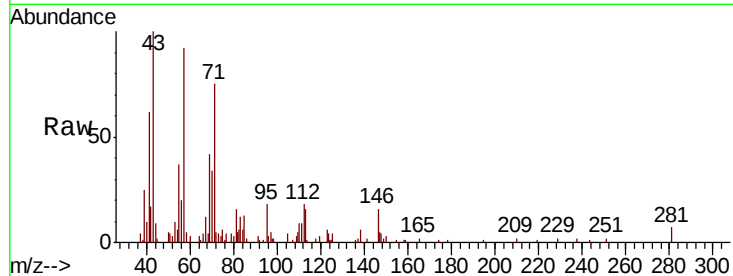
Instrument :
MSVOA_L

ClientSampled :
SVP-3RE

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.8	71.5#
148	0.0	32.5	97.4#

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#78

Hexachloro-1,3-Butadiene

Concen: 0.007 ppbv

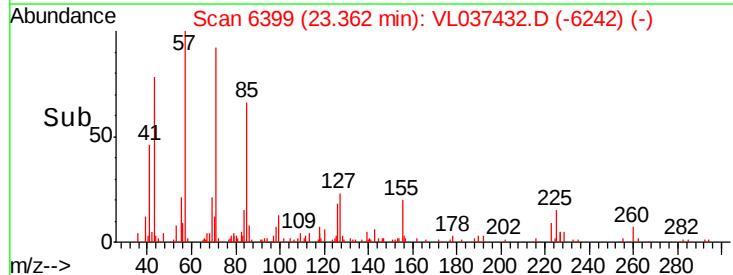
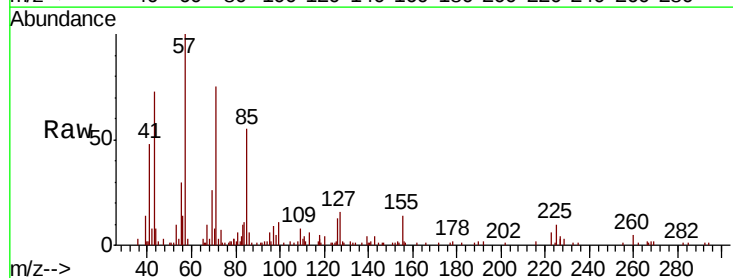
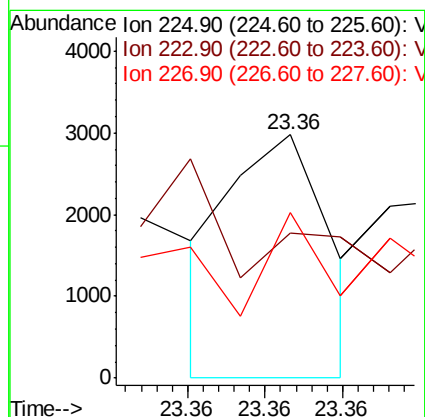
RT: 23.36 min Scan# 6399

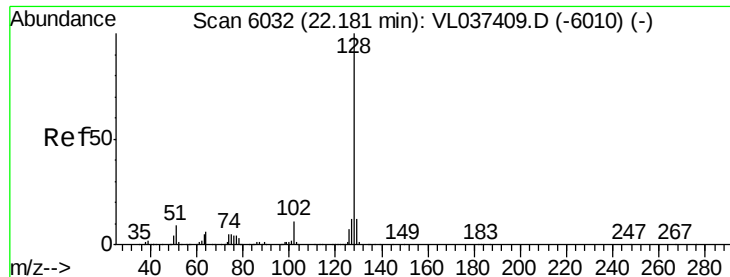
Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

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





#79

Naphthalene

Concen: 0.187 ppbv m

RT: 22.18 min Scan# 6032

Delta R.T. 0.00 min

Lab File: VL037432.D

Acq: 13 Aug 2021 3:24

Instrument :

MSVOA_L

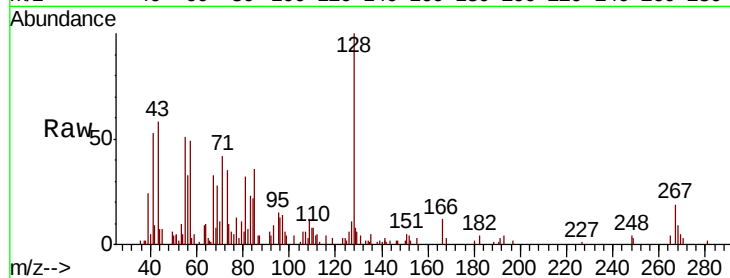
ClientSampleId :

SVP-3RE

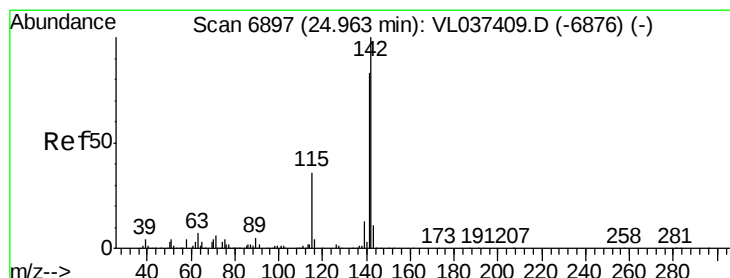
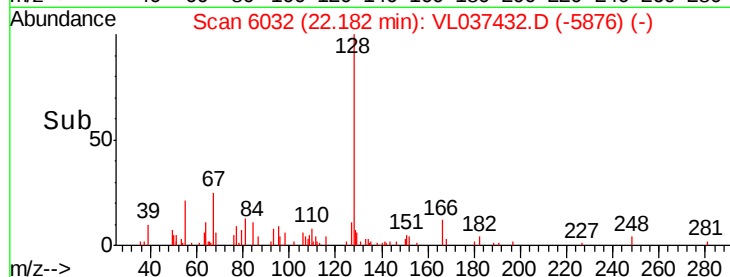
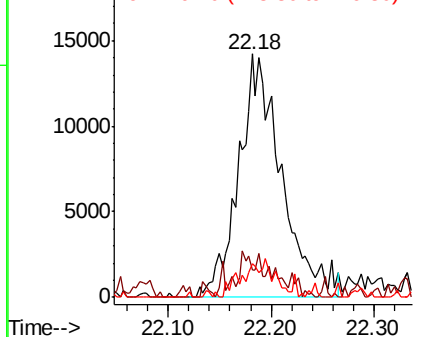
Tot Ion:	128	Resp:	41028
Ion Ratio	Lower	Upper	
128	100		
127	11.0	9.9	14.9
129	8.1	9.4	14.0#

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.065 ppbv m

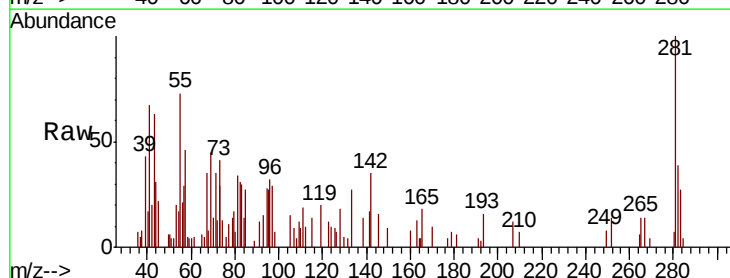
RT: 24.96 min Scan# 6897

Delta R.T. 0.00 min

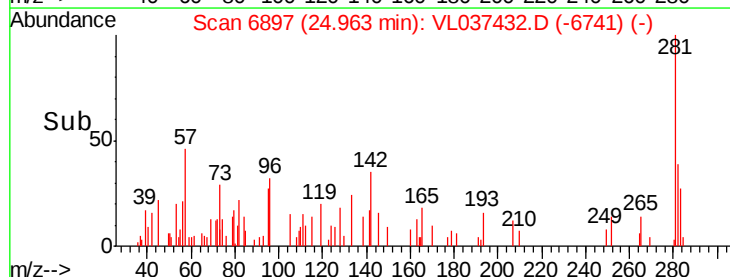
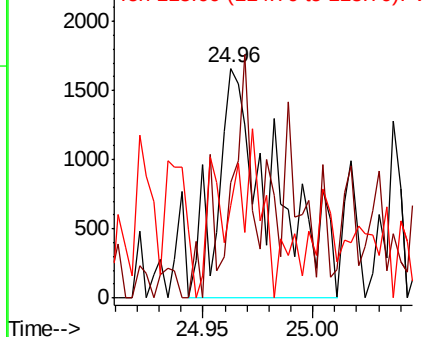
Lab File: VL037432.D

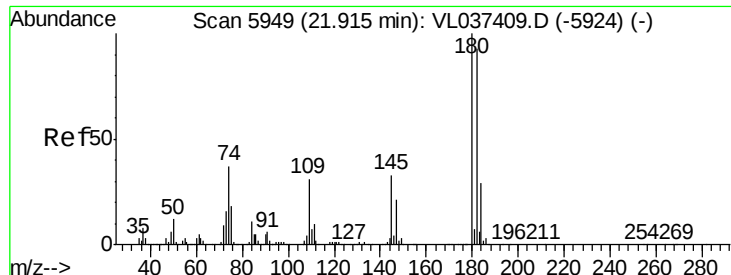
Acq: 13 Aug 2021 3:24

Tgt Ion:	142	Resp:	2988
Ion Ratio	Lower	Upper	
142	100		
141	0.0	68.7	103.1#
115	0.0	32.7	49.1#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.006 ppbv
 RT: 21.91 min Scan# 5948
 Delta R.T. -0.00 min
 Lab File: VL037432.D
 Acq: 13 Aug 2021 3:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-3RE

Tot Ion	Ratio	Lower	Upper
180	100		
182	758.6	78.6	118.0#
184	157.7	24.6	36.8#

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