

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081221\
 Data File : VL037423.D
 Acq On : 12 Aug 2021 21:25
 Operator : SY/AP
 Sample : M3239-03REDUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1REDUP

Manual Integrations
 APPROVED

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 8/13/2021 3:03:10 PM

Quant Time: Aug 13 10:54:11 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	1250261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3695449	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3036851	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2062236	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	36122	0.189 ppbv	# 85
3) Chlorodifluoromethane	2.99	51	131499	0.536 ppbv	# 91
4) Chloromethane	3.14	50	43568m	0.494 ppbv	
5) Vinyl Chloride	3.25	62	77	0.001 ppbv	# 43
6) Bromomethane	3.48	94	101	0.002 ppbv	# 4
7) Chloroethane	3.55	64	291	0.009 ppbv	# 40
8) Dichlorotetrafluoroethane	3.18	85	2178	0.010 ppbv	# 57
9) Propene	3.02	41	57655	0.699 ppbv	95
10) Heptane	8.11	43	23486m	0.117 ppbv	
11) Trichlorofluoromethane	3.95	101	36825	0.178 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	3561	0.025 ppbv	# 1
13) Ethanol	3.61	45	351044	39.898 ppbv	92
14) Bromoethene	3.46	108	204	0.003 ppbv	# 1
15) Acetone	3.85	43	655074	4.941 ppbv	97
17) tert-Butyl alcohol	4.29	59	333	0.003 ppbv	# 72
18) 1,1-Dichloroethene	4.19	96	123	0.002 ppbv	# 72
19) Isopropyl Alcohol	3.99	45	166689m	2.160 ppbv	
20) Methylene Chloride	4.34	84	1529696	21.818 ppbv	94
21) Allvl Chloride	4.40	41	2050	0.020 ppbv	# 20
22) trans-1,2-Dichloroethene	4.88	96	292	0.005 ppbv	# 58
24) 1,1-Dichloroethane	5.01	63	148	0.001 ppbv	# 89
26) Hexane	5.69	57	985655	6.044 ppbv	# 46
27) Carbon Disulfide	4.55	76	50492	0.367 ppbv	# 78
28) Methyl tert-Butyl Ether	5.02	73	75	0.000 ppbv	# 52
30) Cyclohexane	7.14	84	17068m	0.127 ppbv	
31) cis-1,2-Dichloroethene	5.52	61	131	0.001 ppbv	# 22
32) 1,1,1-Trichloroethane	6.51	97	465	0.002 ppbv	# 22
34) 2-Butanone	5.26	43	38997m	0.256 ppbv	
35) Carbon Tetrachloride	7.02	117	12017m	0.053 ppbv	
36) Benzene	6.89	78	85187	0.273 ppbv	95
37) 1,2-Dichloroethane	6.31	62	2278	0.014 ppbv	# 76
38) Trichloroethene	7.84	130	122	0.001 ppbv	# 43
40) 1,4-Dioxane	7.83	88	151	0.005 ppbv	# 100
42) Bromodichloromethane	7.79	83	586	0.003 ppbv	# 26
43) Methyl Methacrylate	8.01	69	551	0.005 ppbv	# 1
44) 2,2,4-Trimethylpentane	7.87	57	120479m	0.231 ppbv	
45) t-1,3-Dichloropropene	9.38	75	279	0.004 ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	233	0.002 ppbv	# 43
47) 1,1,2-Trichloroethane	9.47	97	159	0.001 ppbv	# 26
48) Dibromochloromethane	10.29	129	371	0.002 ppbv	97
49) Bromoform	13.03	173	106	0.001 ppbv	# 16

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Quant Time: Aug 13 10:54:11 2021
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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	8.74	43	256	0.001	ppbv #	38
51) 2-Hexanone	10.13	43	633	0.007	ppbv #	28
52) Tetrachloroethene	11.22	164	8180m	0.062	ppbv	
53) Toluene	9.80	91	430954	1.211	ppbv	97
54) 1,2-Dibromoethane	10.62	107	112	0.001	ppbv #	1
56) 1,1,1,2-Tetrachloroethane	12.13	131	255	0.002	ppbv #	6
57) Chlorobenzene	12.13	112	363	0.001	ppbv #	31
59) m/p-Xylene	12.97	91	78745m	0.218	ppbv	
61) Styrene	13.53	104	1158	0.007	ppbv #	1
62) Isopropylbenzene	14.66	105	943	0.002	ppbv #	48
63) 1,1,2,2-Tetrachloroethane	13.67	83	403	0.002	ppbv #	24
64) n-propylbenzene	15.67	120	117	0.001	ppbv	91
65) tert-Butylbenzene	16.74	119	435	0.001	ppbv #	19
66) Benzyl Chloride	17.00	91	231	0.012	ppbv #	65
67) sec-Butylbenzene	17.29	105	1262	0.002	ppbv #	55
69) p-Isopropyltoluene	17.64	119	746	0.002	ppbv #	48
70) n-Butylbenzene	18.54	91	423	0.001	ppbv #	32
71) 2-Chlorotoluene	15.52	91	147	0.000	ppbv	83
72) 4-Ethyltoluene	15.84	105	6955	0.018	ppbv #	57
73) 1,3,5-Trimethylbenzene	15.99	105	3341	0.009	ppbv #	34
74) 1,2,4-Trimethylbenzene	16.75	105	9795	0.026	ppbv #	62
75) 1,3-Dichlorobenzene	16.99	146	809	0.003	ppbv #	55
76) 1,4-Dichlorobenzene	17.13	146	824	0.004	ppbv #	22
77) 1,2-Dichlorobenzene	17.85	146	114	0.001	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	257	0.001	ppbv #	18
79) Naphthalene	22.18	128	166	0.001	ppbv #	69
80) Naphthalene,2-methyl-	24.96	142	49	0.001	ppbv #	1
81) 1,2,4-Trichlorobenzene	21.91	180	62	0.000	ppbv #	1

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

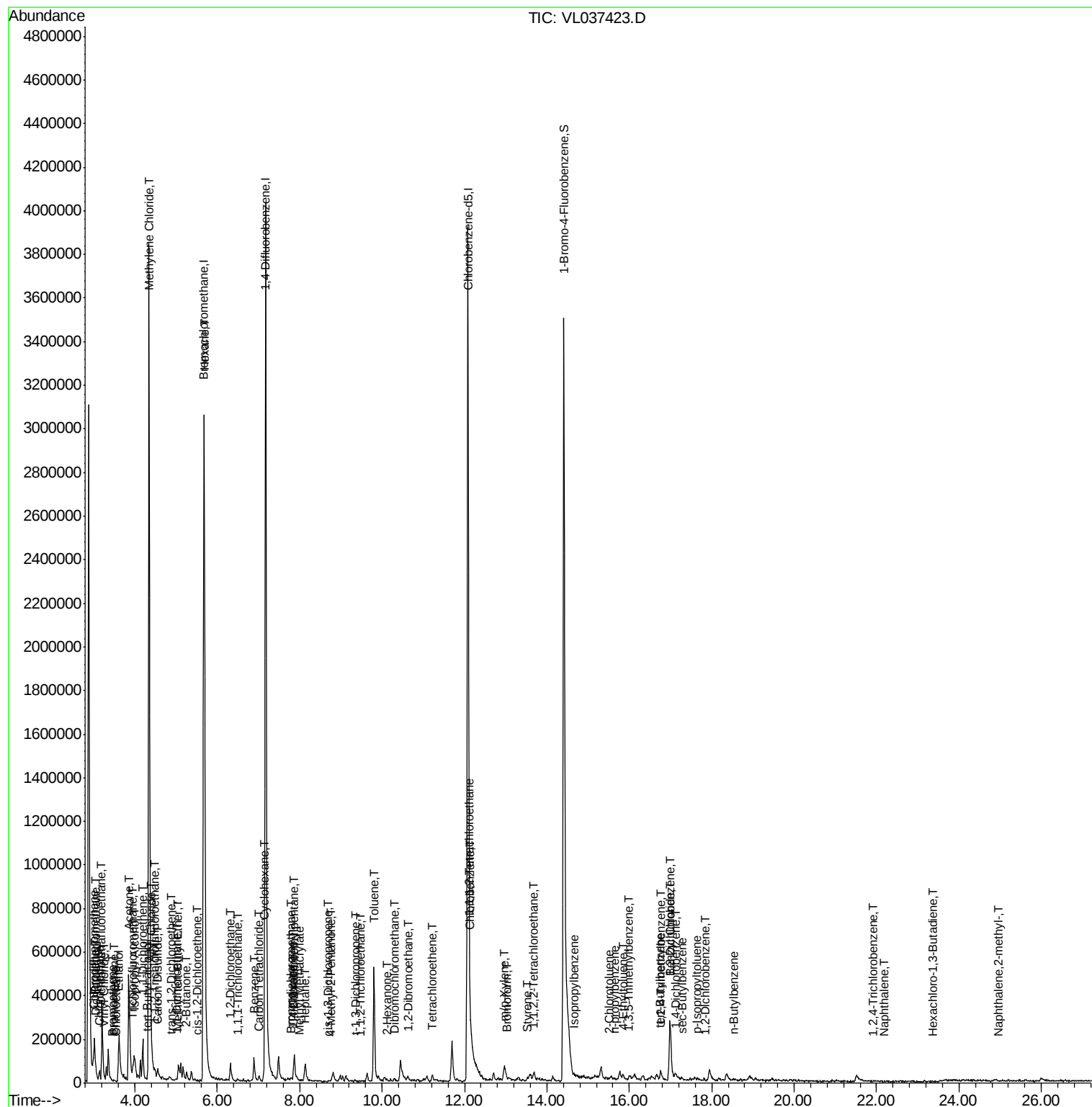
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Operator : SY/AP
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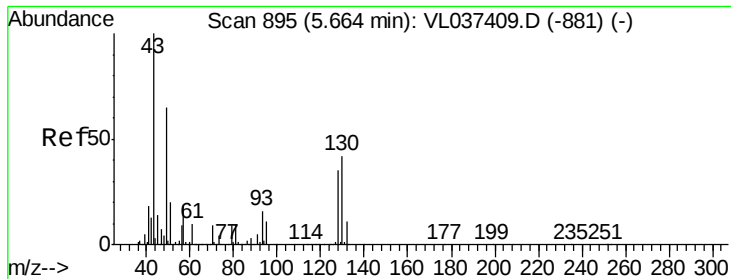
Instrument :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 13 01:37:35 2021
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#1

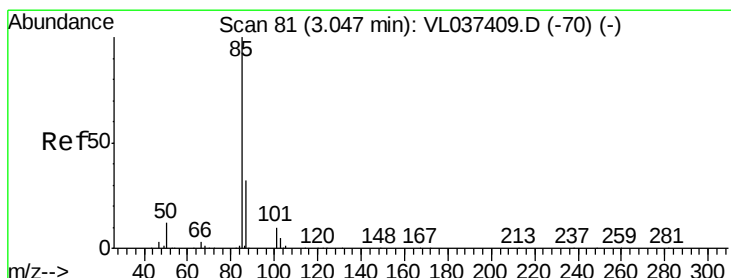
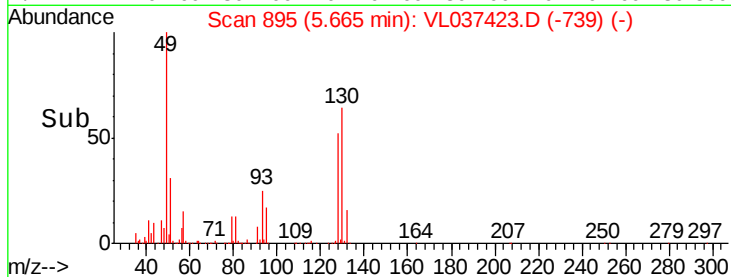
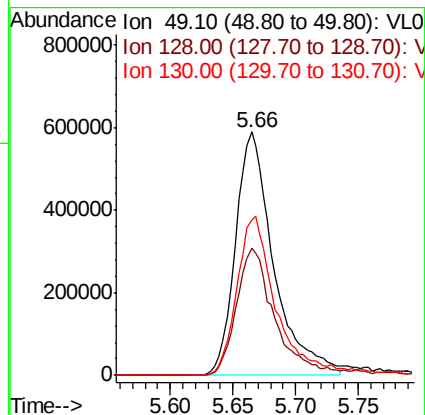
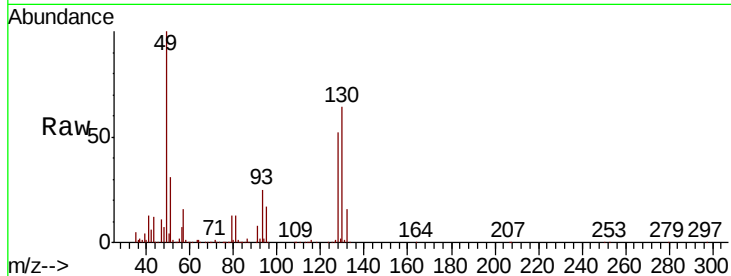
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1REDUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	54.8	27.9	83.6
130	68.7	34.6	103.8

Manual Integrations
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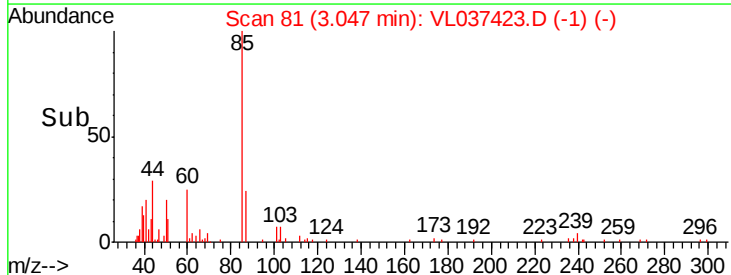
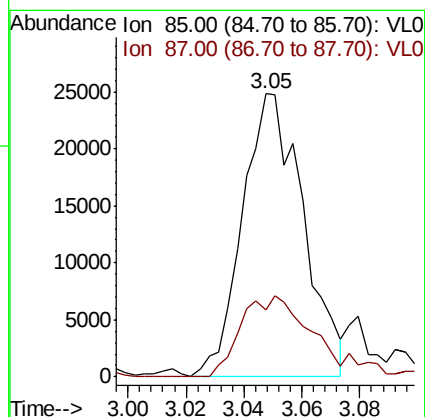
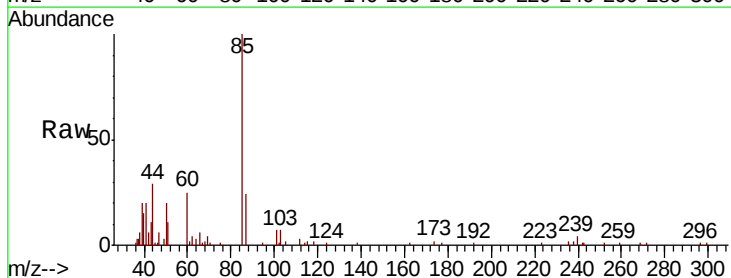
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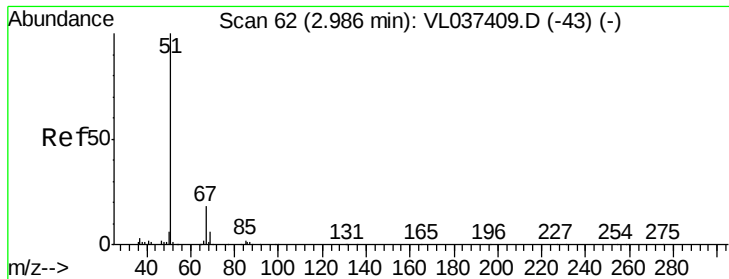


#2

Dichlorodifluoromethane
 Concen: 0.189 ppbv
 RT: 3.05 min Scan# 81
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
85	100		
87	23.8	25.7	38.5





#3

Chlorodifluoromethane

Concen: 0.536 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

ClientSampleId :

QA1REDUP

Tot Ion: 51 Resp: 131499

Ion Ratio Lower Upper

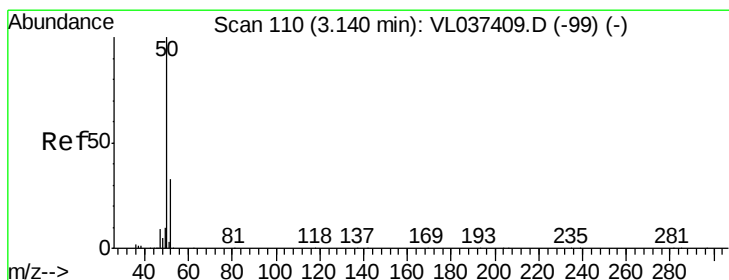
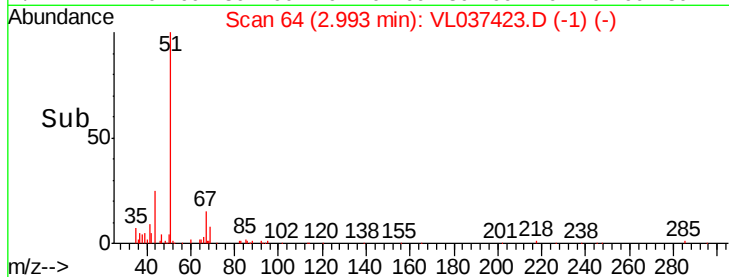
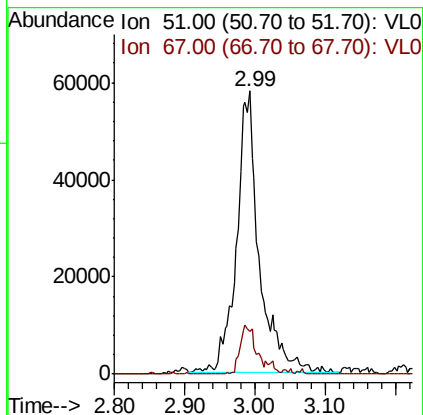
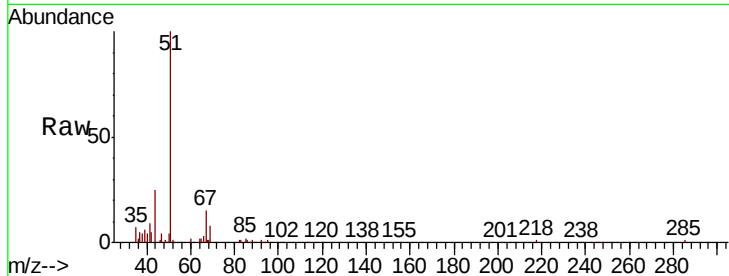
51 100

67 14.5 14.7 22.1#

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#4

Chloromethane

Concen: 0.494 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037423.D

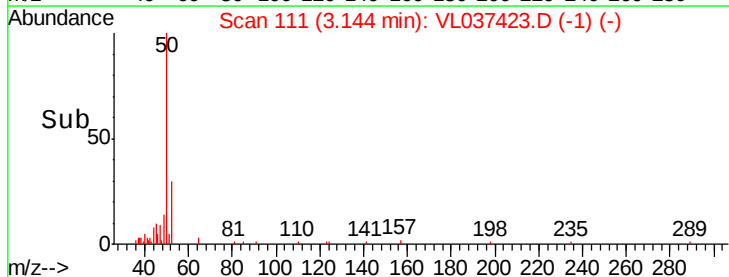
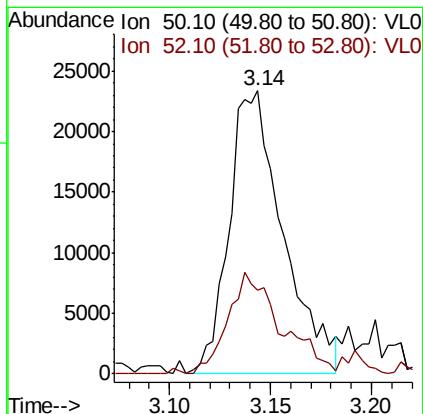
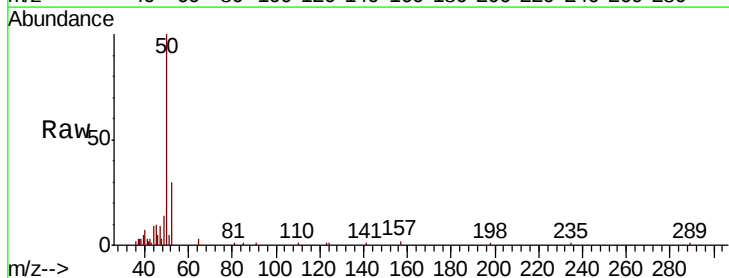
Acq: 12 Aug 2021 21:25

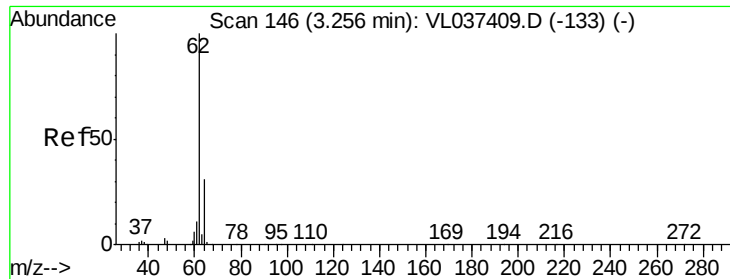
Tgt Ion: 50 Resp: 43568

Ion Ratio Lower Upper

50 100

52 29.7 26.2 39.4





#5

Vinyl Chloride

Concen: 0.001 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

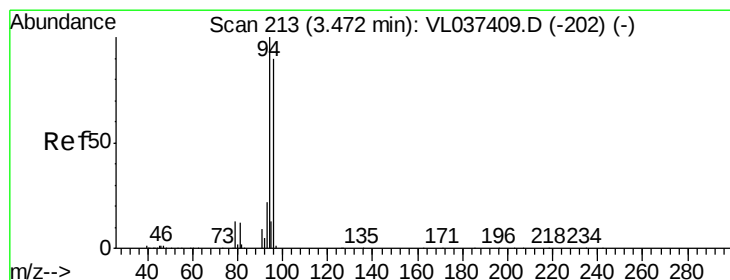
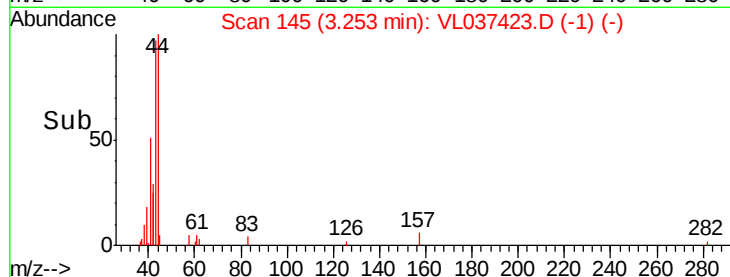
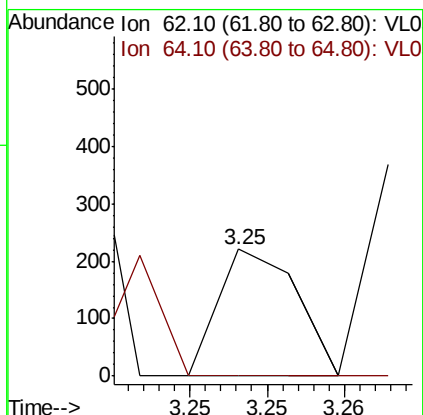
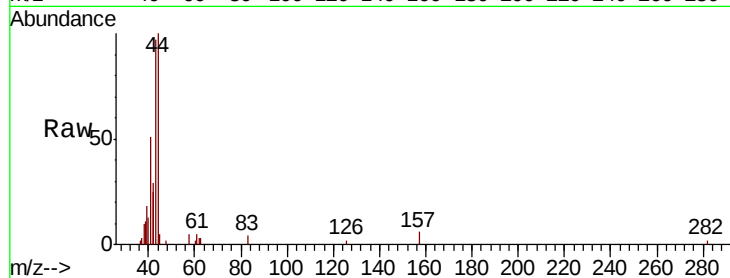
ClientSampleID :

QA1REDUP

Tot Ion	Ratio	Lower	Upper
62	100		
64	0.0	25.0	37.6#

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#6

Bromomethane

Concen: 0.002 ppbv

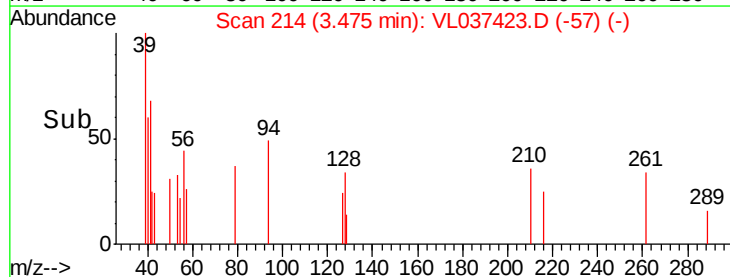
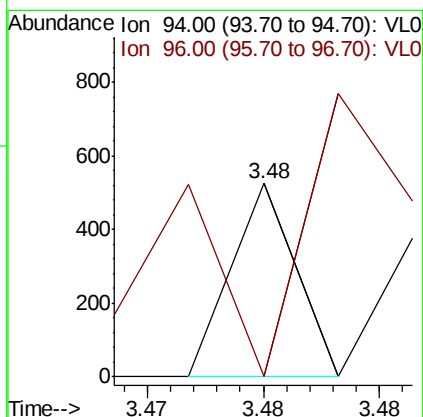
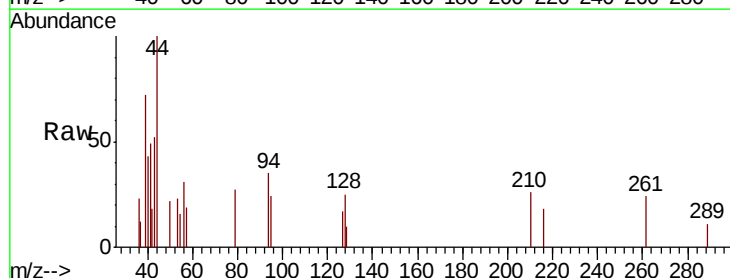
RT: 3.48 min Scan# 214

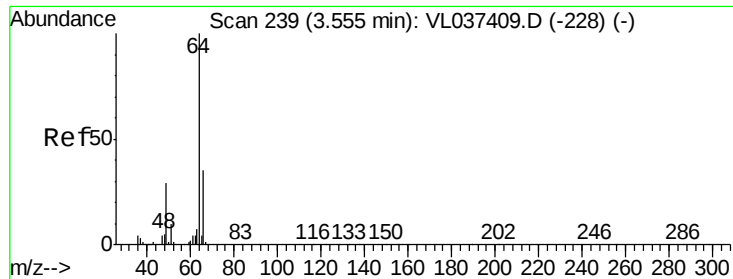
Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
94	100		
96	0.0	72.2	108.4#





#7

Chloroethane

Concen: 0.009 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

ClientSampleId :

OA1REDUP

Tot Ion: 64 Resp: 291

Ion Ratio Lower Upper

64 100

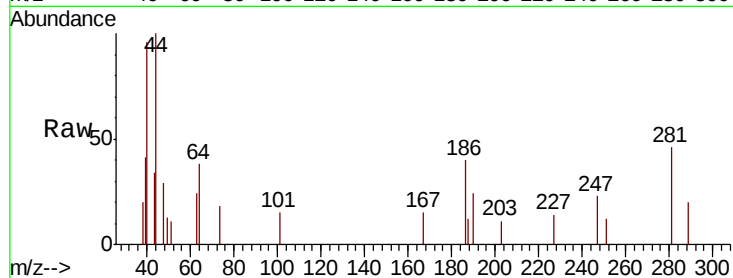
66 0.0 27.8 41.8#

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

600

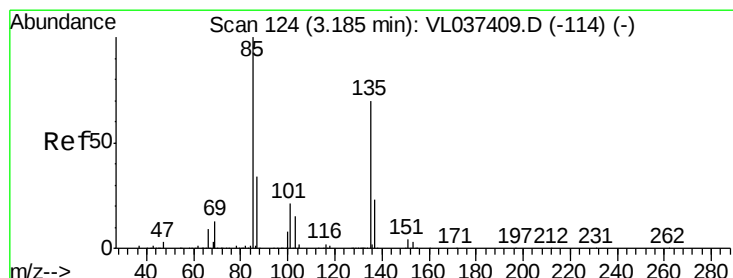
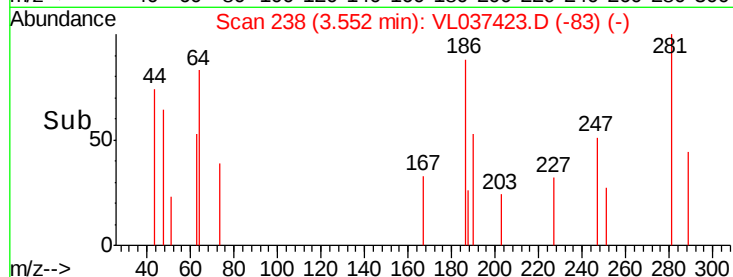
400

200

0

3.54 3.54 3.55 3.55 3.56 3.56

Time-->



#8

Dichlorotetrafluoroethane

Concen: 0.010 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL037423.D

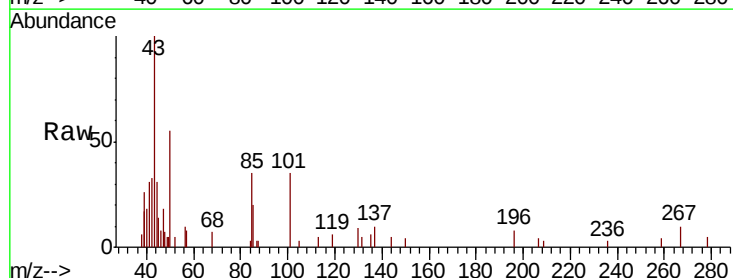
Acq: 12 Aug 2021 21:25

Tgt Ion: 85 Resp: 2178

Ion Ratio Lower Upper

85 100

135 109.5 58.6 88.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3000

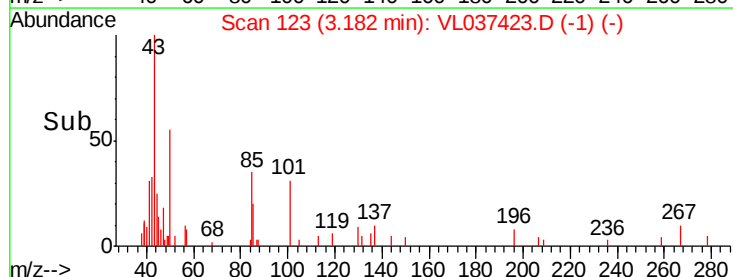
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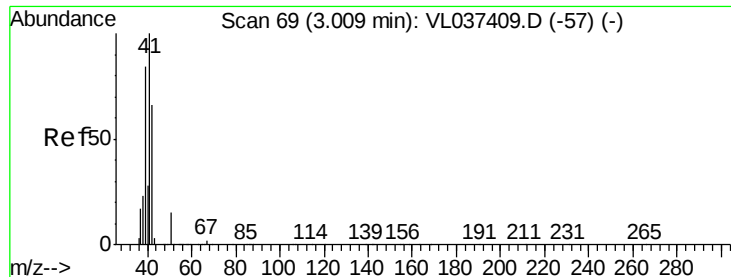
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0

3.16 3.17 3.18 3.18 3.19 3.19 3.20 3.20

Time-->





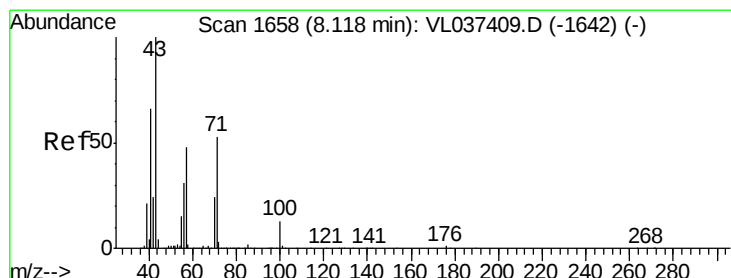
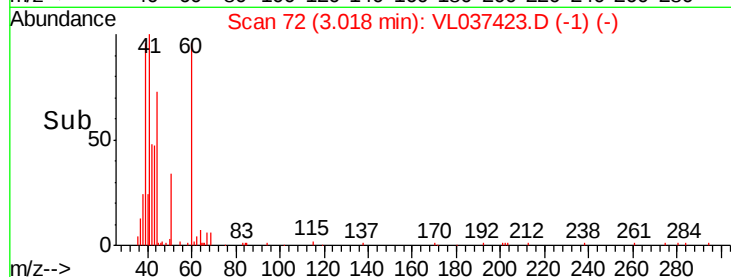
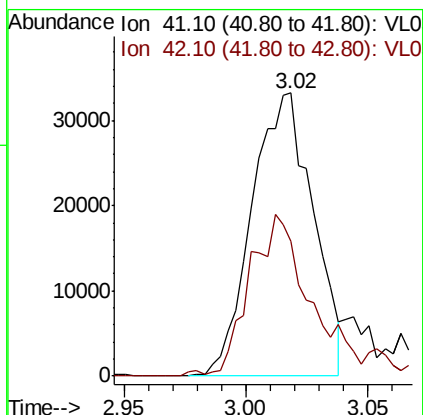
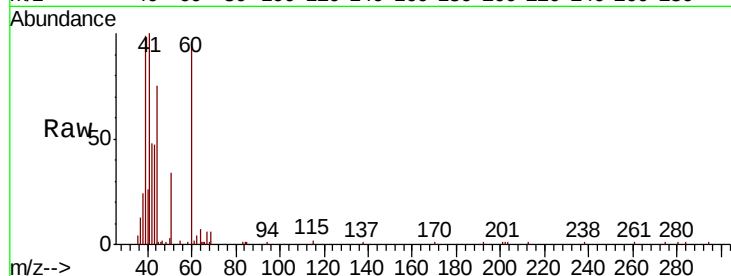
#9
 Propene
 Concen: 0.699 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. 0.01 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
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Tot Ion	Ratio	Lower	Upper
41	100		
42	63.6	53.8	80.8

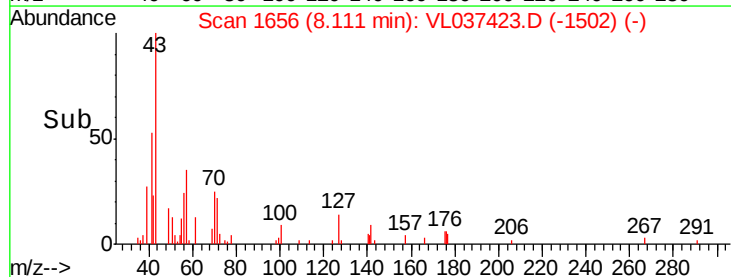
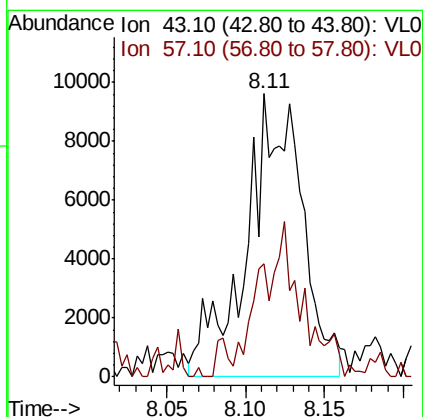
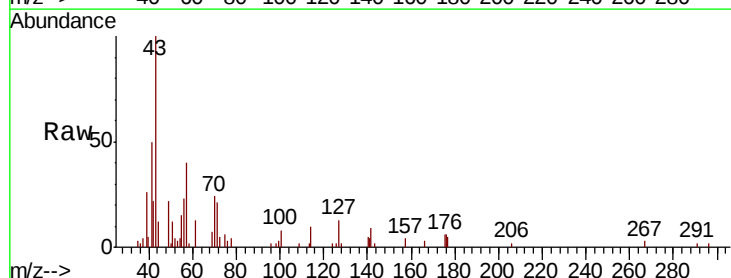
Manual Integrations
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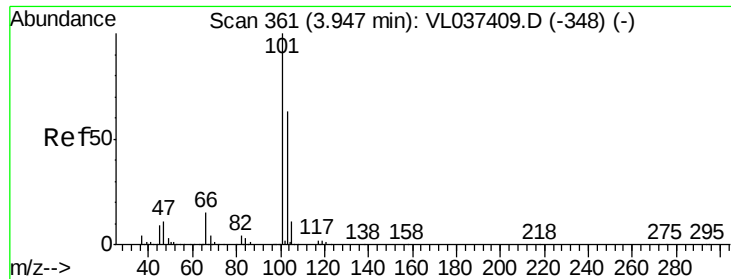
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#10
 Heptane
 Concen: 0.117 ppbv m
 RT: 8.11 min Scan# 1656
 Delta R.T. -0.01 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.3	60.5#





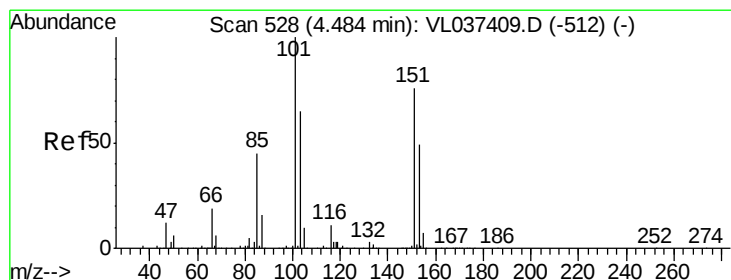
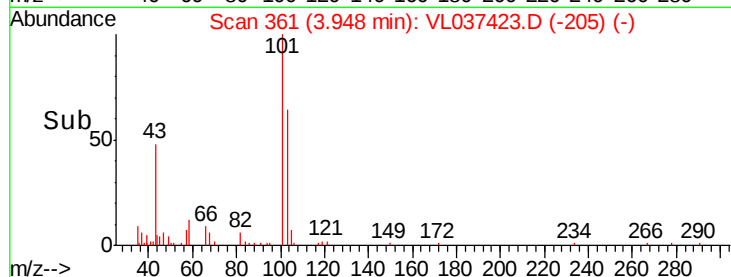
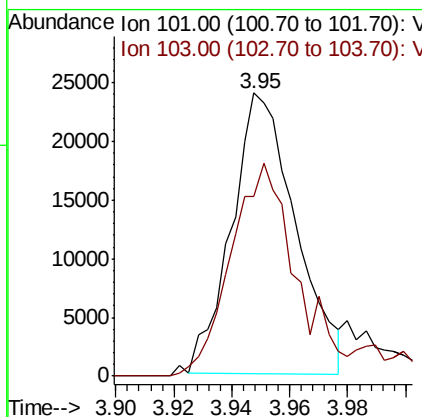
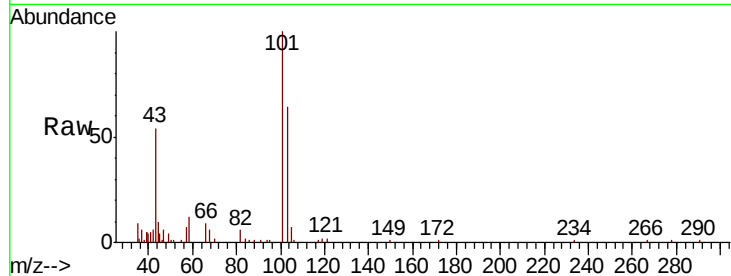
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 Trichlorofluoromethane
 Concen: 0.178 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
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 OA1REDUP

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.6	50.2	75.4

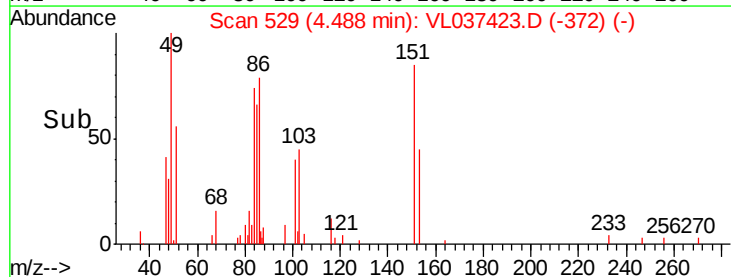
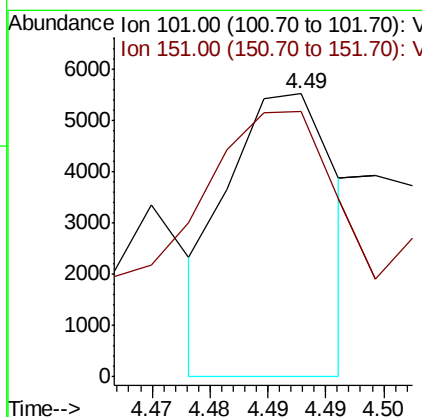
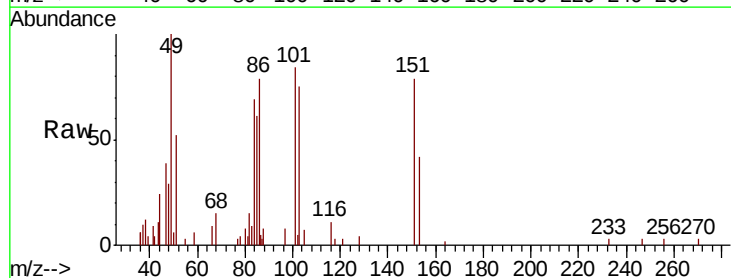
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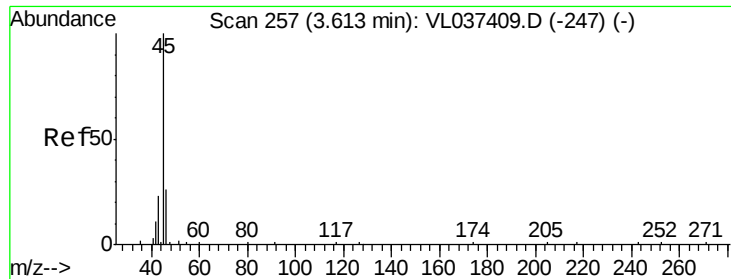
apatel
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.025 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
101	100		
151	257.5	61.2	91.8#





#13

Ethanol

Concen: 39.898 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

ClientSampleId :

QA1REDUP

Tot Ion: 45 Resp: 351044

Ion Ratio Lower Upper

45 100

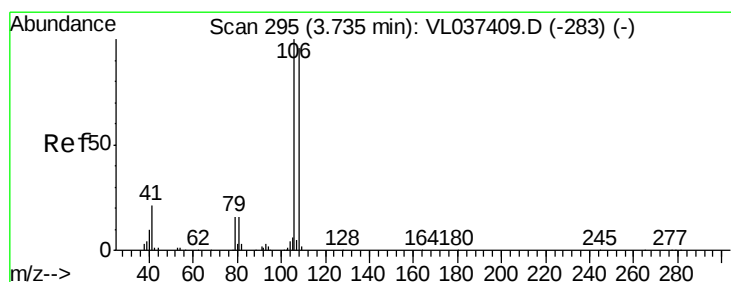
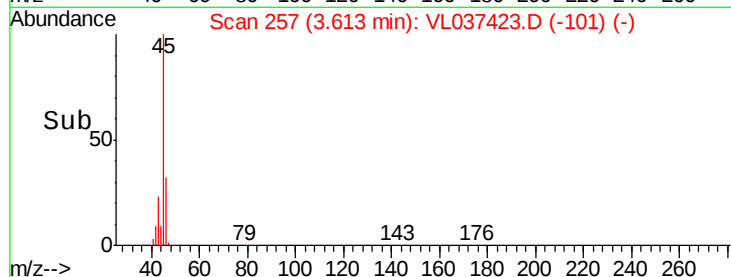
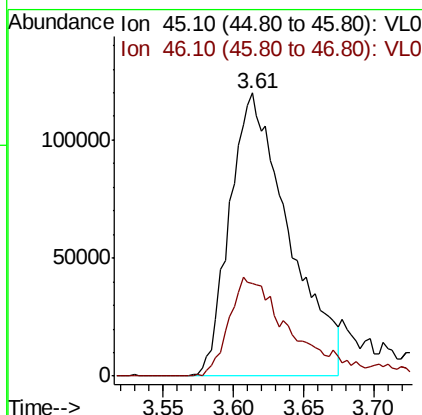
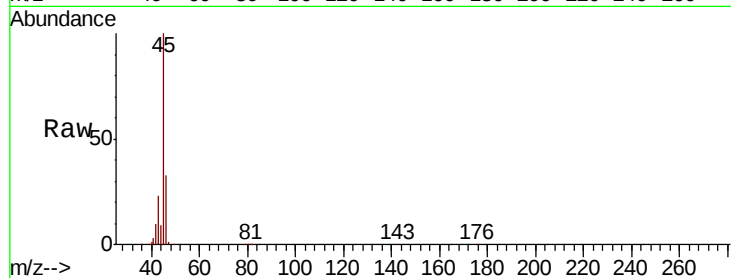
46 39.7 18.0 72.2

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#14

Bromoethene

Concen: 0.003 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.28 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

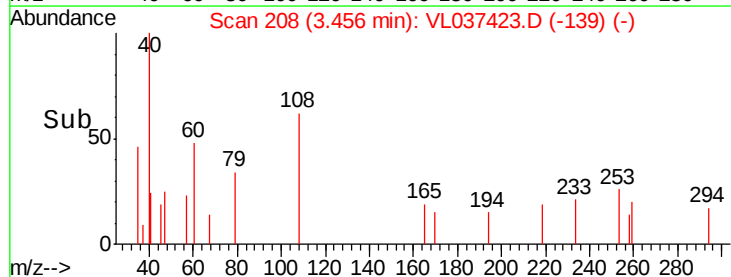
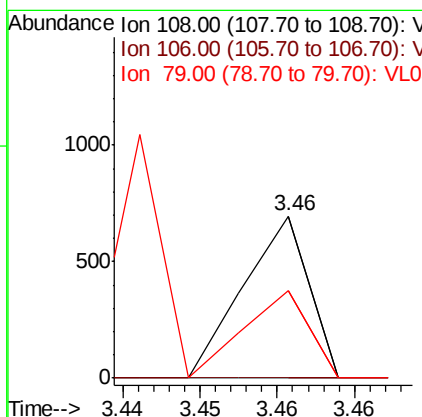
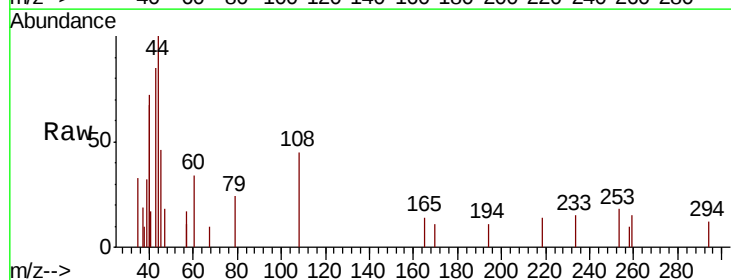
Tgt Ion: 108 Resp: 204

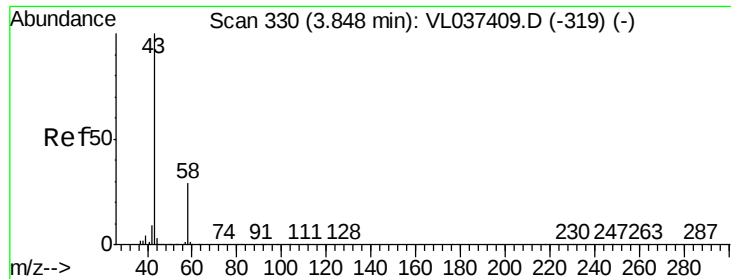
Ion Ratio Lower Upper

108 100

106 0.0 87.5 131.3#

79 261.8 13.5 20.3#





#15

Acetone

Concen: 4.941 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

ClientSampleId :

QA1REDUP

Tot Ion: 43 Resp: 655074

Ion Ratio Lower Upper

43 100

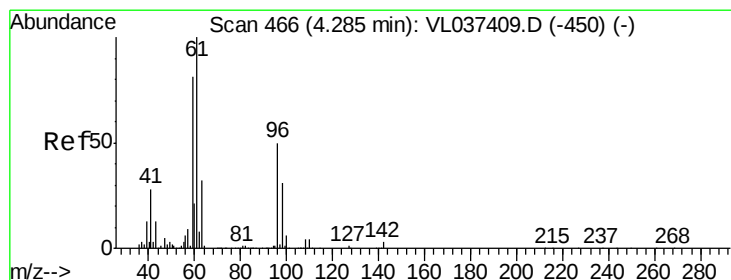
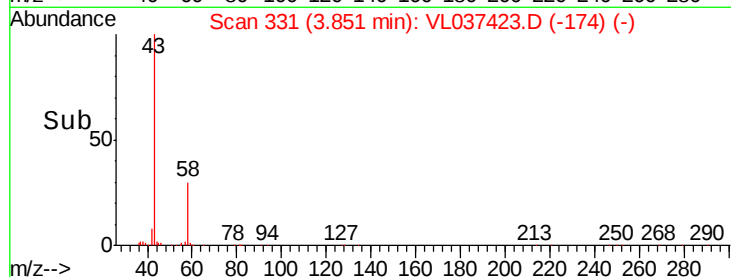
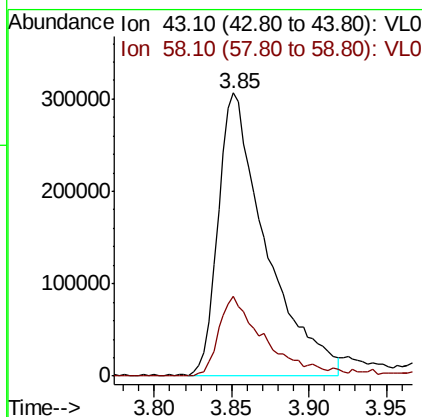
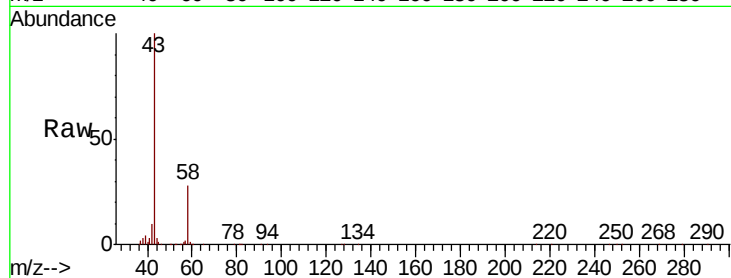
58 29.1 24.4 36.6

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#17

tert-Butyl alcohol

Concen: 0.003 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL037423.D

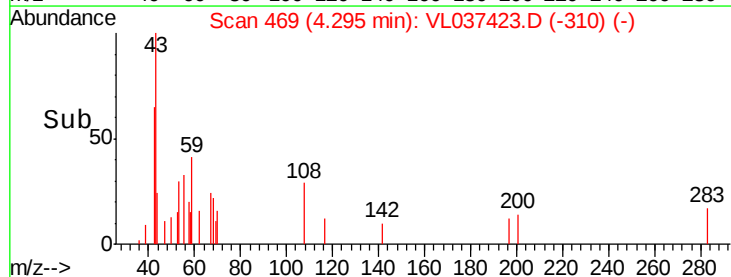
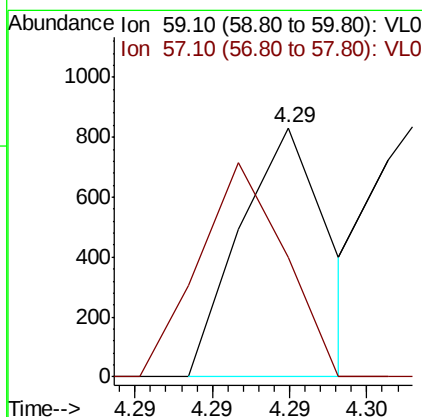
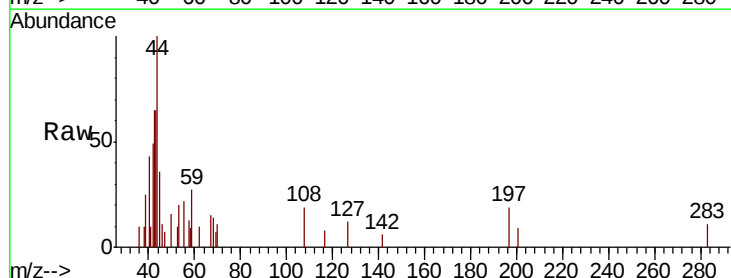
Acq: 12 Aug 2021 21:25

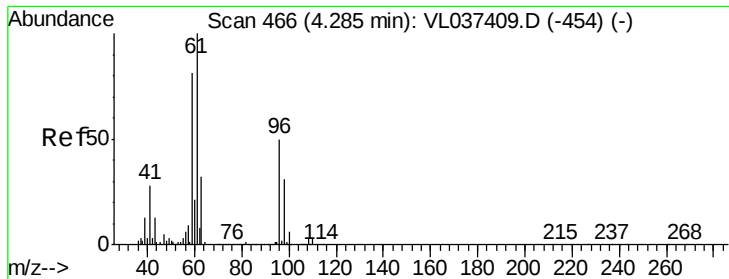
Tgt Ion: 59 Resp: 333

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#18

1,1-Dichloroethene

Concen: 0.002 ppbv

RT: 4.19 min Scan# 436

Delta R.T. -0.10 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

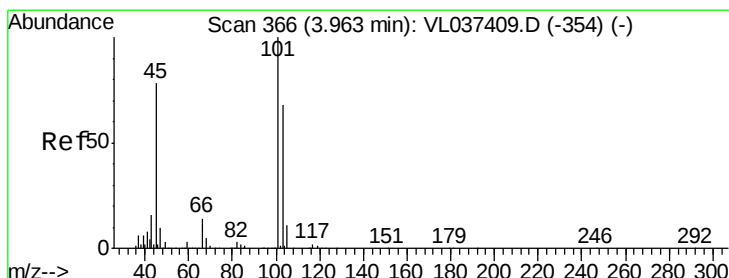
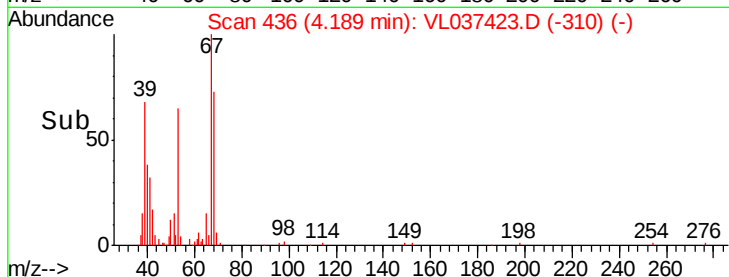
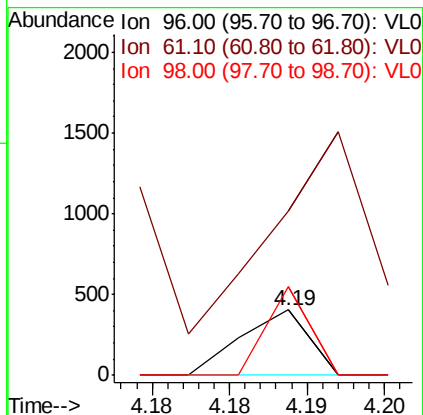
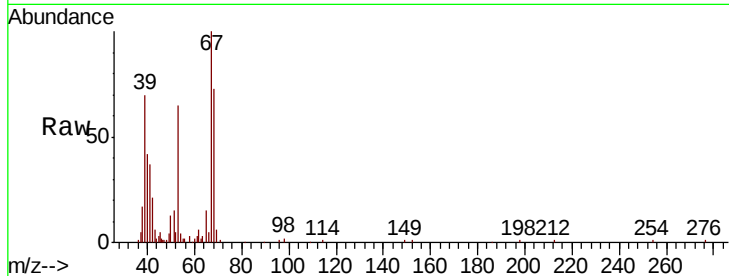
ClientSampleId :

QA1REDUP

Tot Ion:	96	Resp:	123
Ion	Ratio	Lower	Upper
96	100		
61	187.7	159.0	238.4
98	135.0	49.4	74.2#

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 2.160 ppbv m

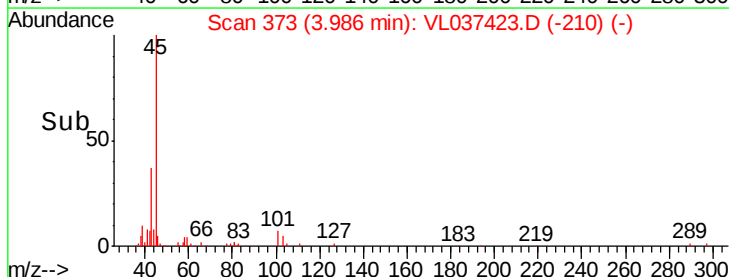
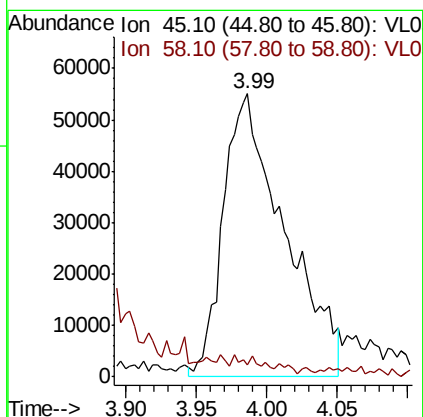
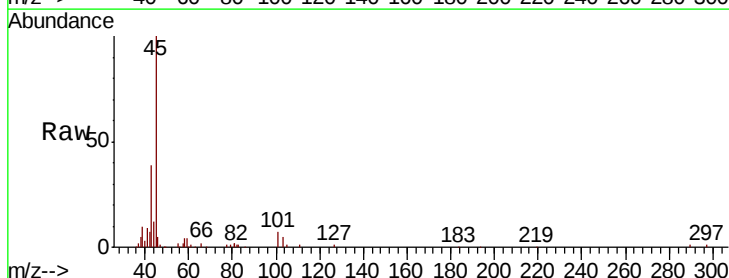
RT: 3.99 min Scan# 373

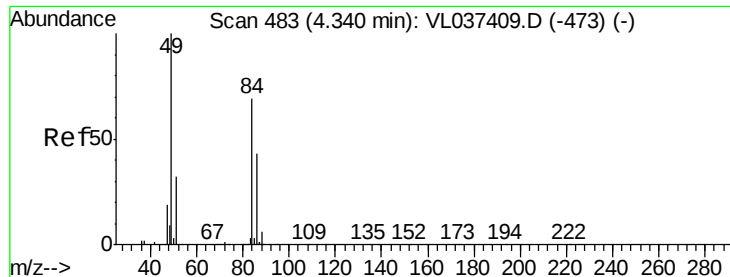
Delta R.T. 0.02 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:	45	Resp:	166689
Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.2	3.4#





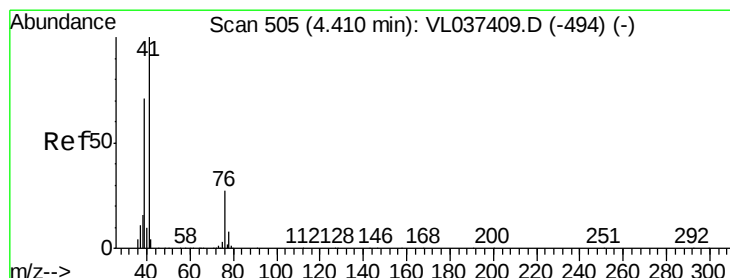
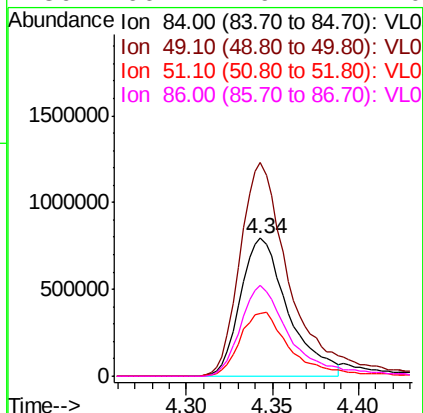
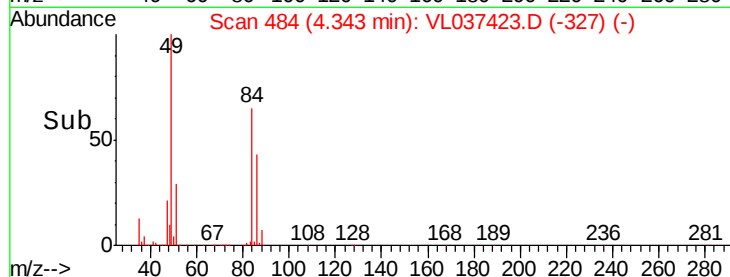
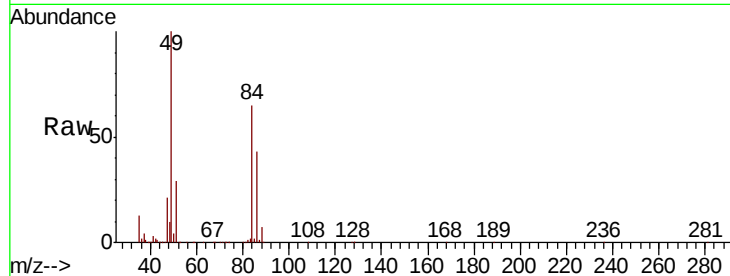
#20
Methvlene Chloride
Concen: 21.818 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

Tot Ion: 84 Resp: 1529696
Ion Ratio Lower Upper
84 100
49 154.6 116.0 174.0
51 45.4 37.1 55.7
86 66.1 49.4 74.0

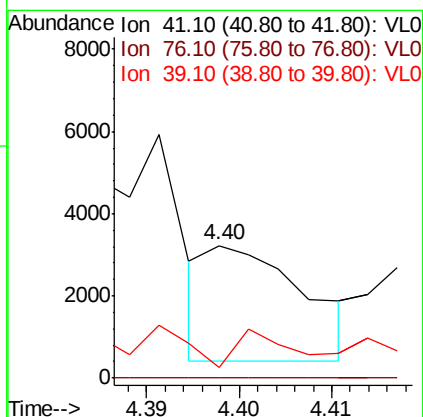
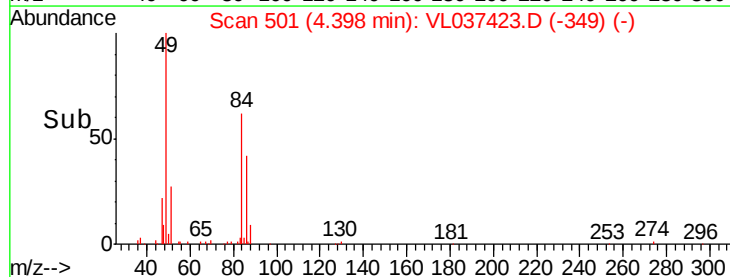
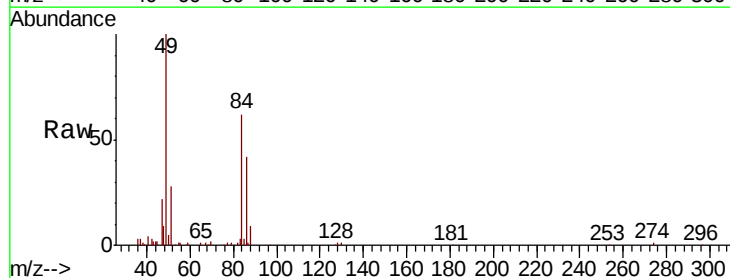
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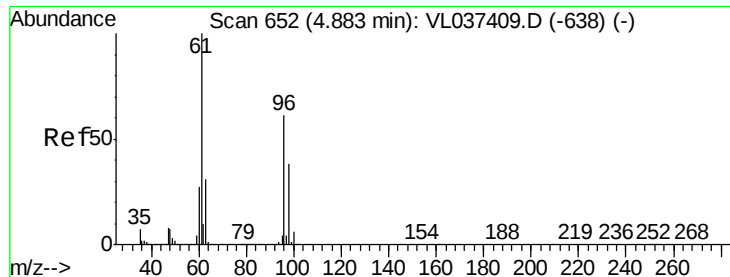
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#21
Allyl Chloride
Concen: 0.020 ppbv
RT: 4.40 min Scan# 501
Delta R.T. -0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion: 41 Resp: 2050
Ion Ratio Lower Upper
41 100
76 0.0 23.7 35.5#
39 0.0 62.3 93.5#





#22

trans-1,2-Dichloroethene

Concen: 0.005 ppbv

RT: 4.88 min Scan# 652

Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

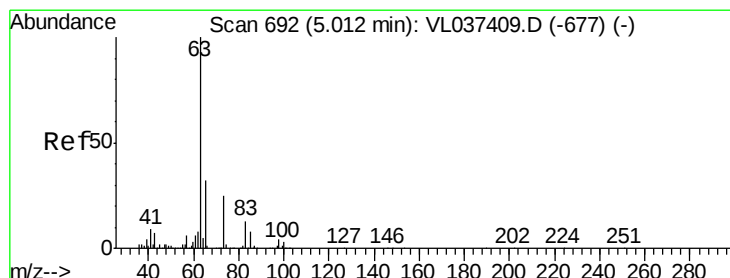
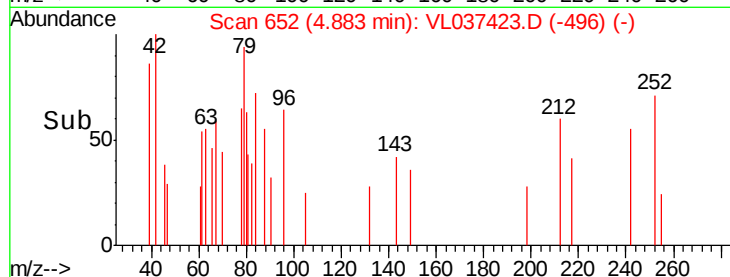
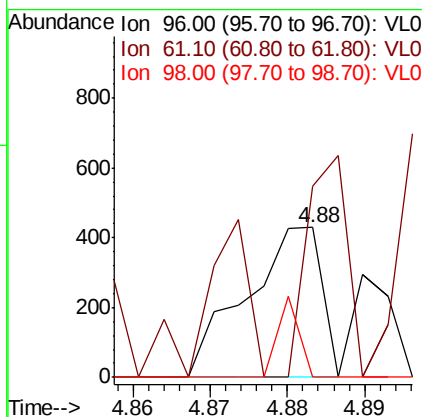
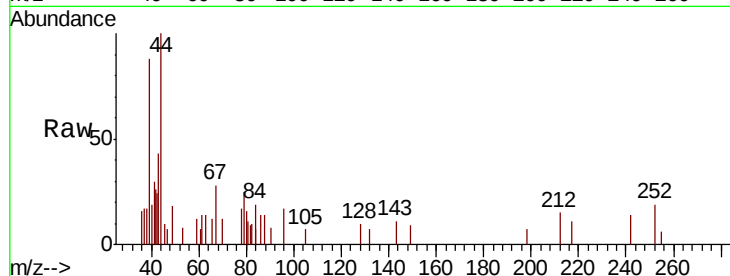
ClientSampleID :

0A1REDUP

Tot Ion:	96	Resp:	292
Ion Ratio	Lower	Upper	
96	100		
61	128.0	131.0	196.4#
98	0.0	50.2	75.4#

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#24

1,1-Dichloroethane

Concen: 0.001 ppbv

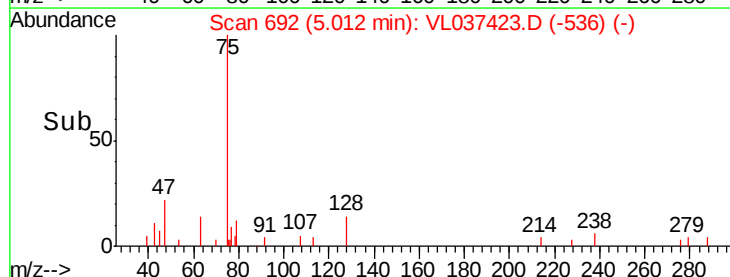
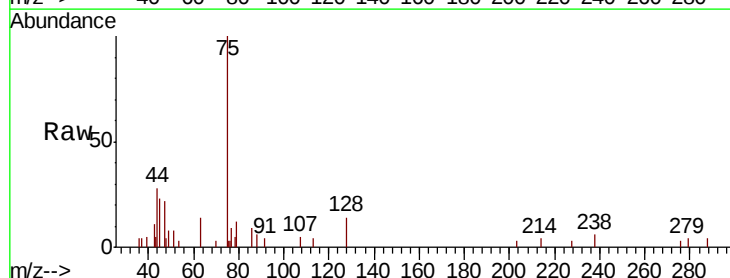
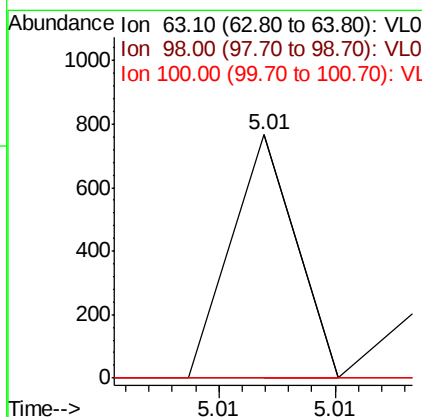
RT: 5.01 min Scan# 692

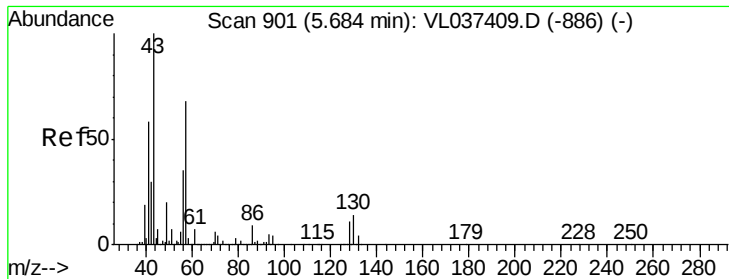
Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:	63	Resp:	148
Ion Ratio	Lower	Upper	
63	100		
98	0.0	2.1	6.3#
100	0.0	1.6	4.7#





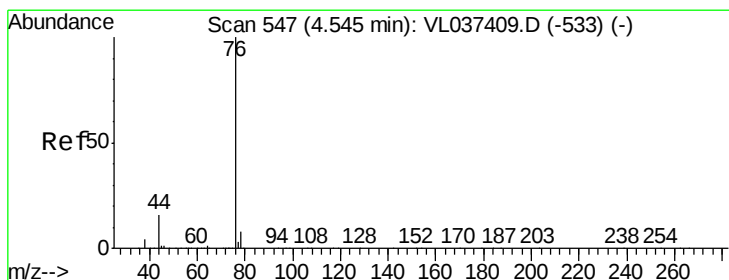
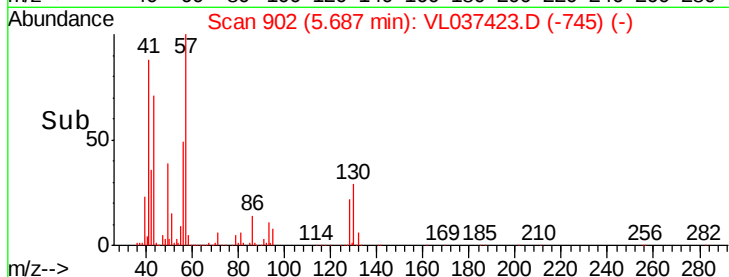
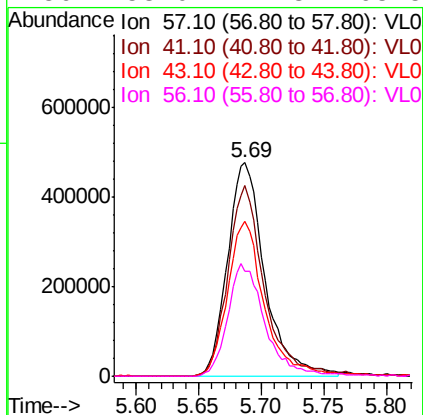
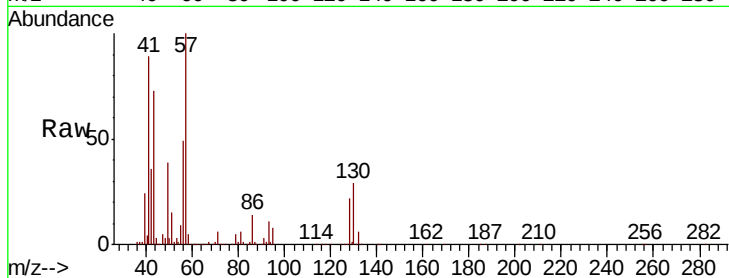
#26
Hexane
Concen: 6.044 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	88.9	72.5	108.7
43	71.8	169.3	253.9#
56	53.0	42.3	63.5

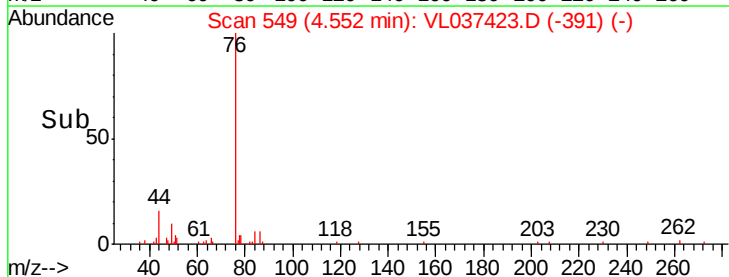
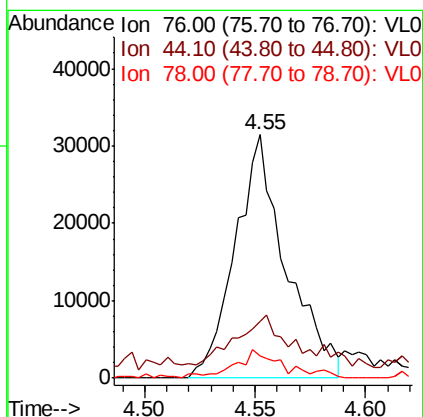
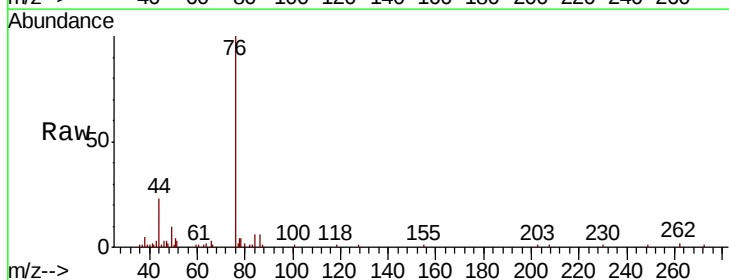
Manual Integrations
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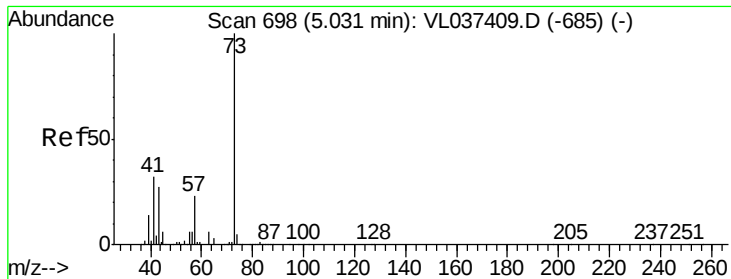
apatel
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#27
Carbon Disulfide
Concen: 0.367 ppbv
RT: 4.55 min Scan# 549
Delta R.T. 0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
76	100		
44	31.9	14.4	21.6#
78	11.6	8.0	12.0





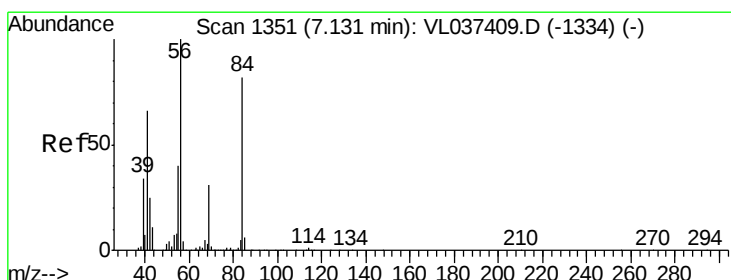
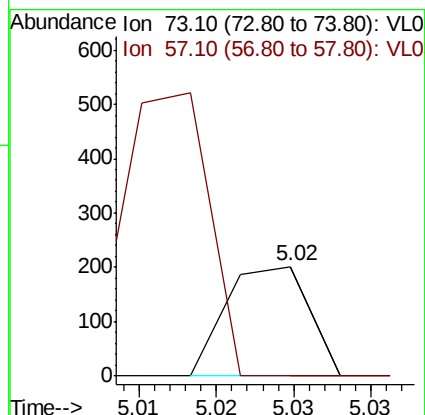
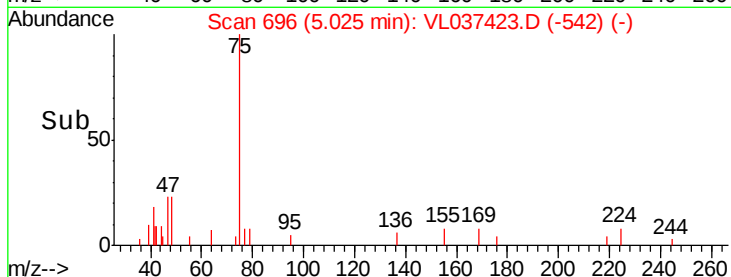
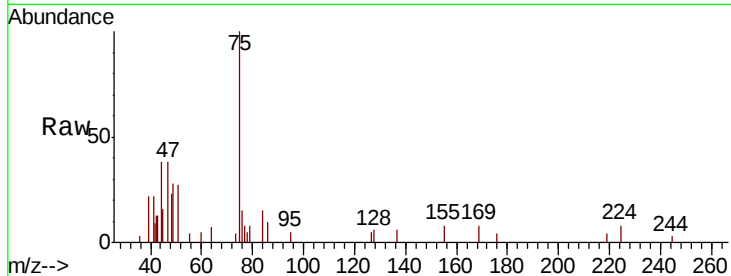
#28
Methvl tert-Butvl Ether
Concen: 0.000 ppbv
RT: 5.02 min Scan# 696
Delta R.T. -0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

Tot Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.0	28.4#

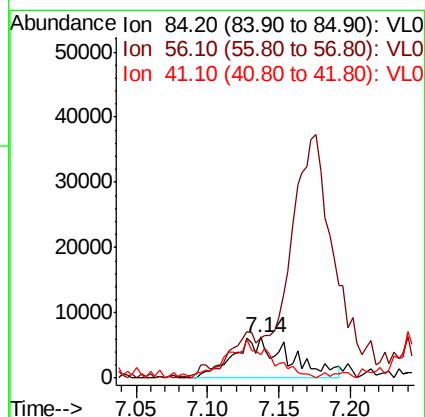
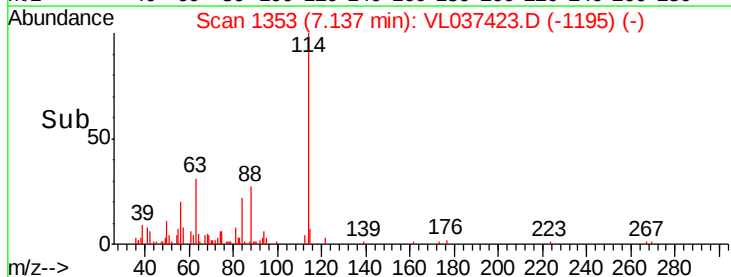
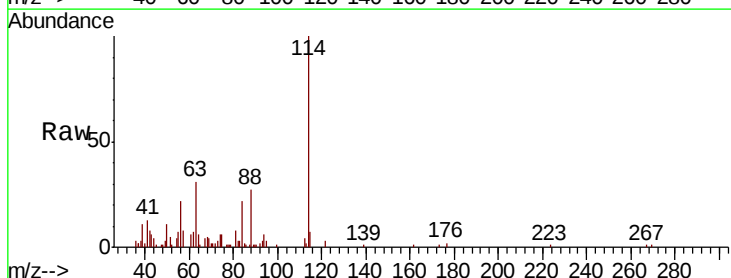
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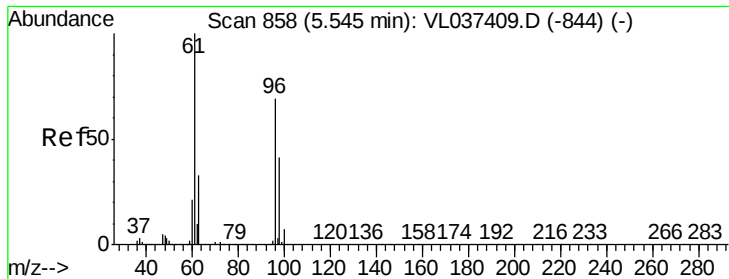
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#30
Cyclohexane
Concen: 0.127 ppbv m
RT: 7.14 min Scan# 1353
Delta R.T. 0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.6	164.4#
41	0.0	66.6	99.8#





#31

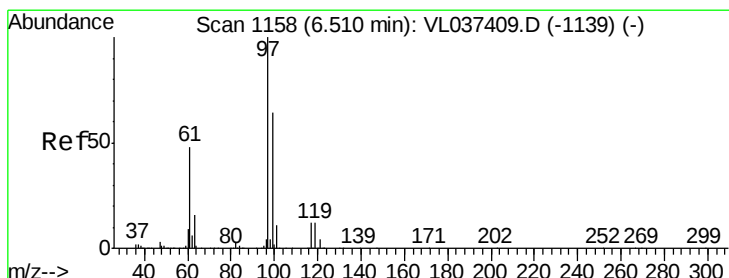
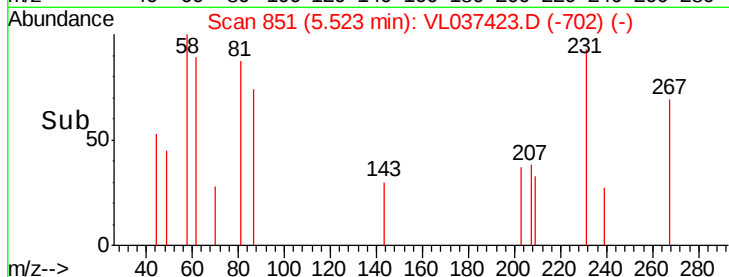
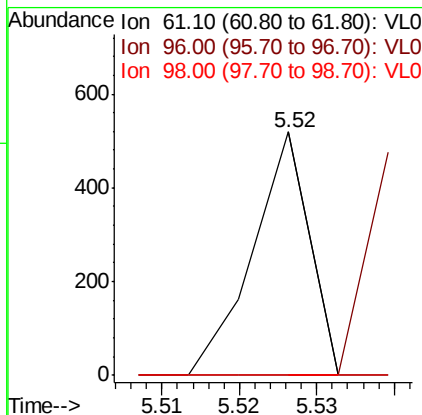
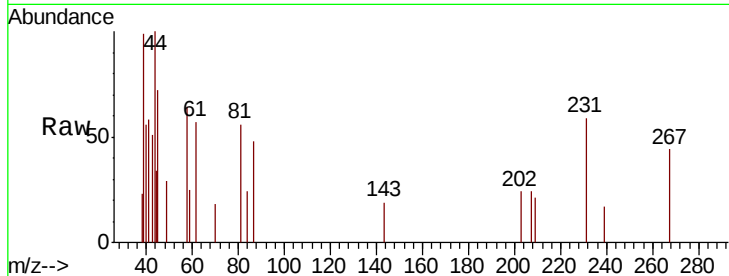
cis-1,2-Dichloroethene
Concen: 0.001 ppbv
RT: 5.52 min Scan# 851
Delta R.T. -0.02 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

Tot 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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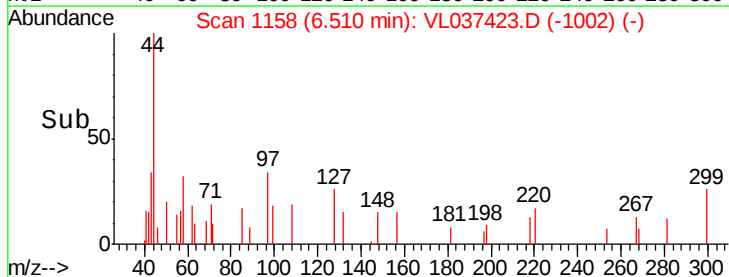
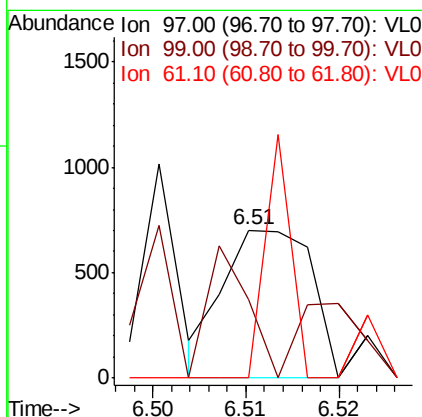
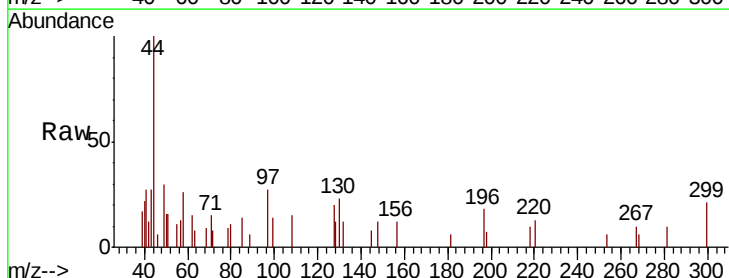
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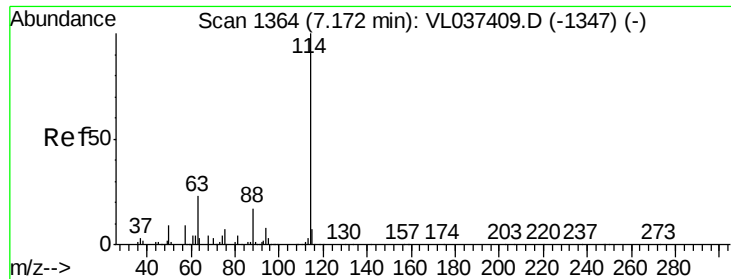


#32

1,1,1-Trichloroethane
Concen: 0.002 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

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





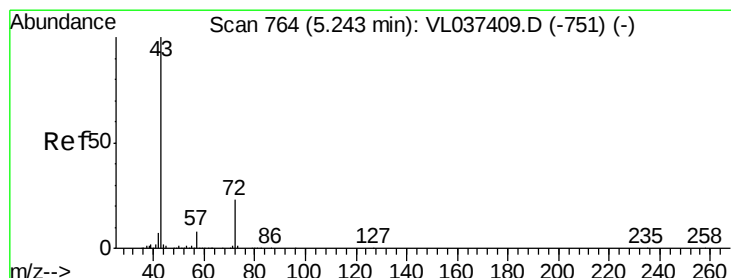
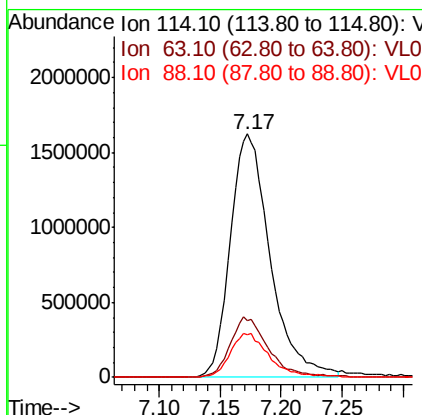
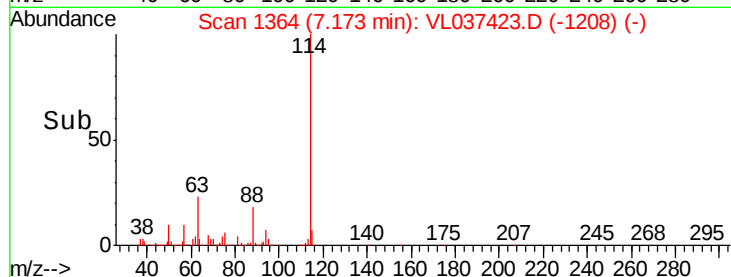
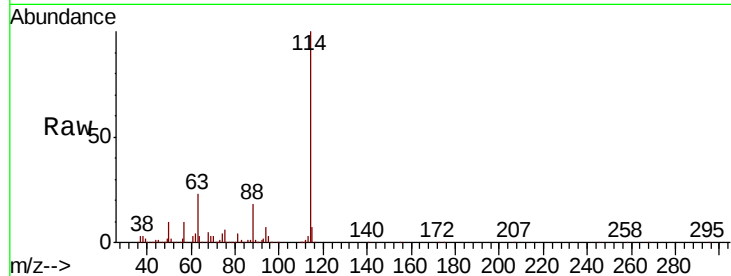
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 QA1REDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.4	29.2
88	18.1	14.2	21.4

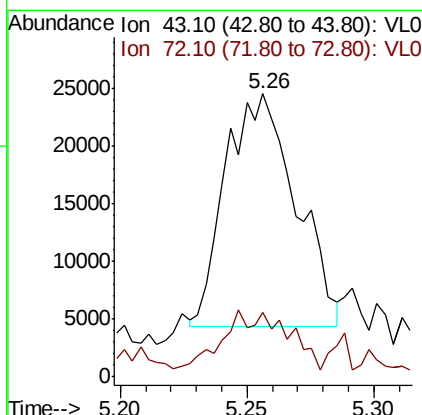
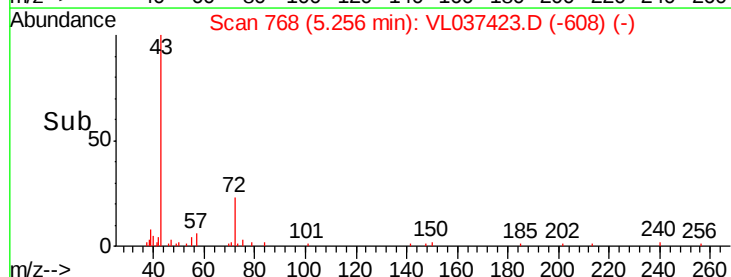
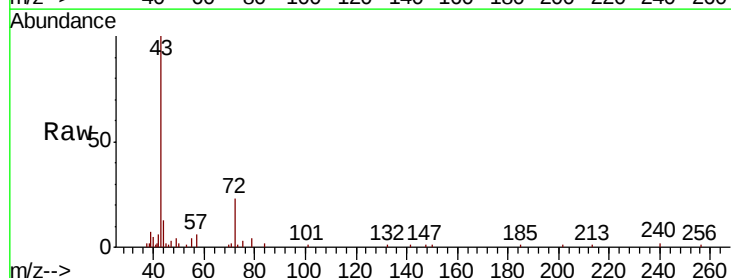
Manual Integrations
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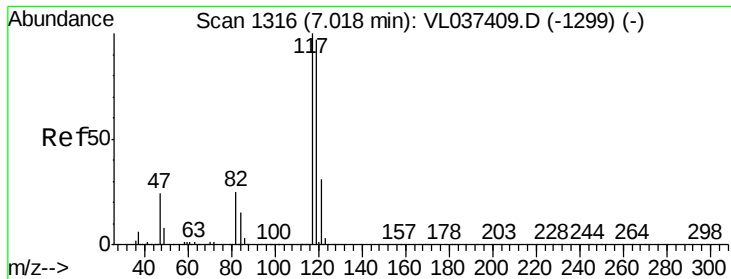
apatel
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#34
 2-Butanone
 Concen: 0.256 ppbv m
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	32.5	17.7	26.5#





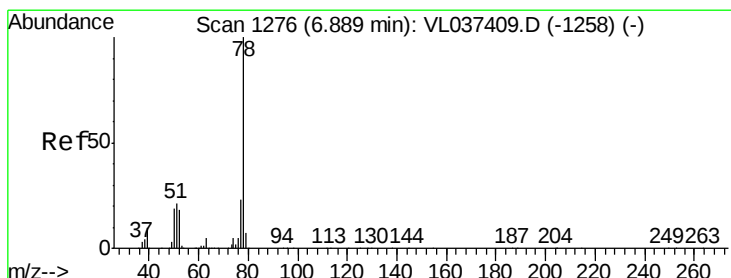
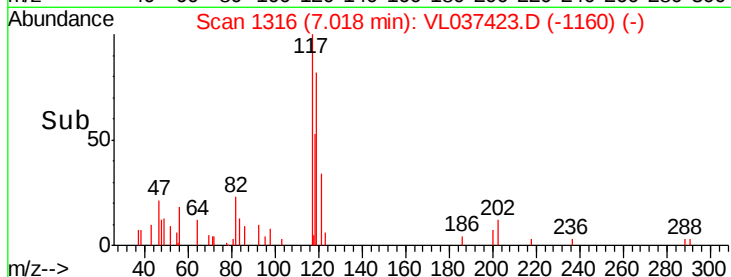
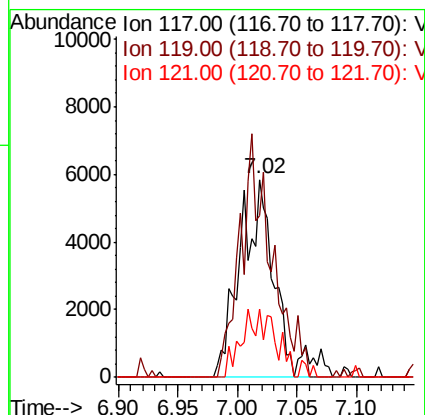
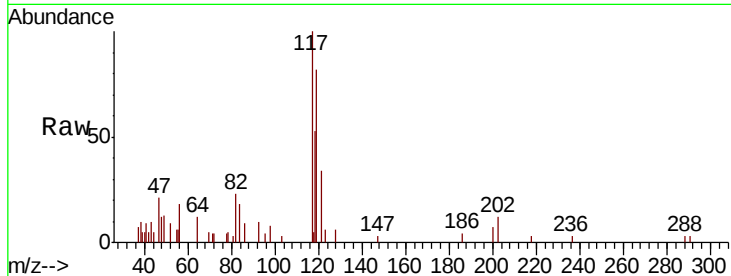
#35
Carbon Tetrachloride
Concen: 0.053 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	81.8	77.5	116.3
121	34.5	24.7	37.1

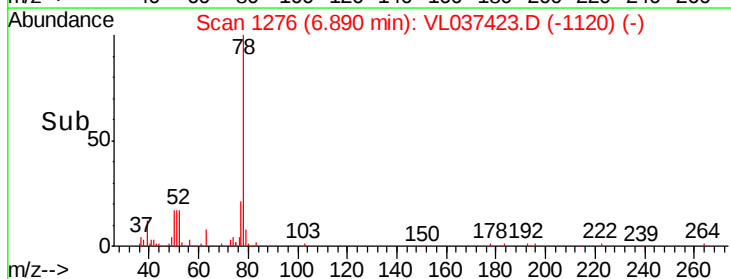
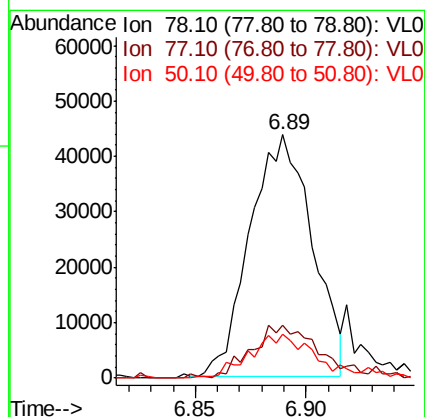
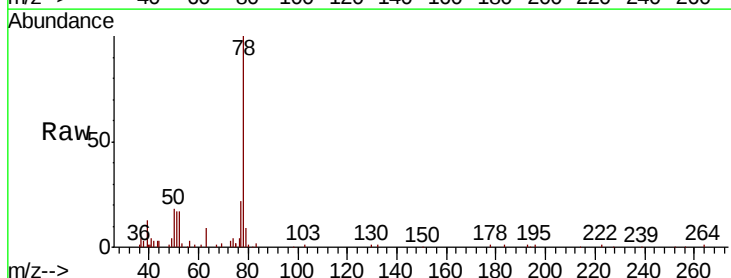
Manual Integrations
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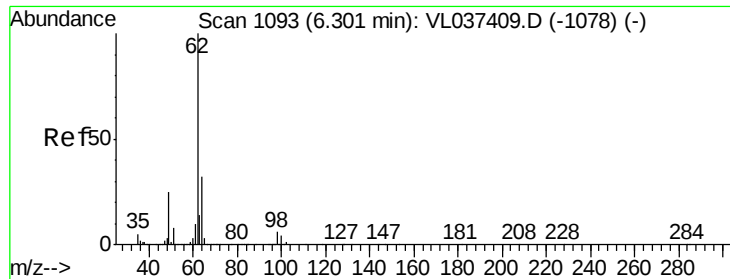
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#36
Benzene
Concen: 0.273 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.2	18.6	27.8
50	16.9	14.9	22.3





#37

1,2-Dichloroethane

Concen: 0.014 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. 0.01 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

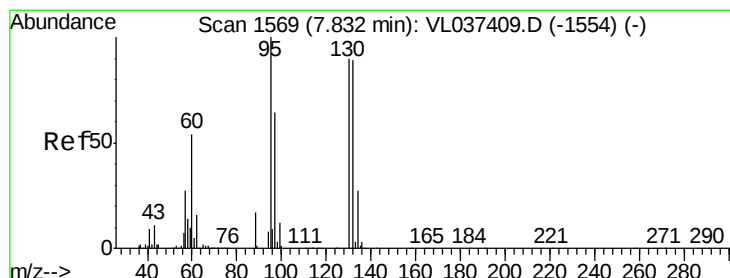
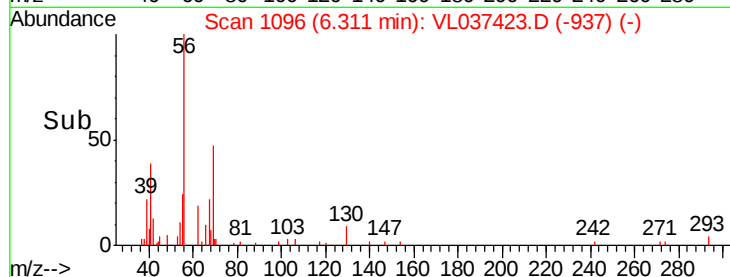
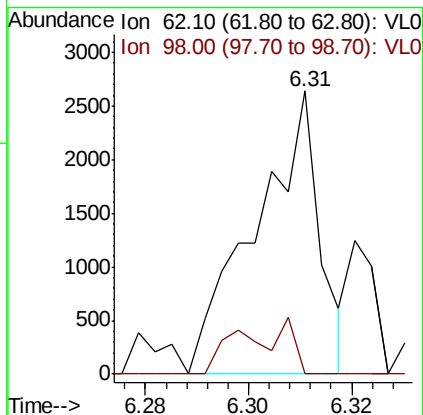
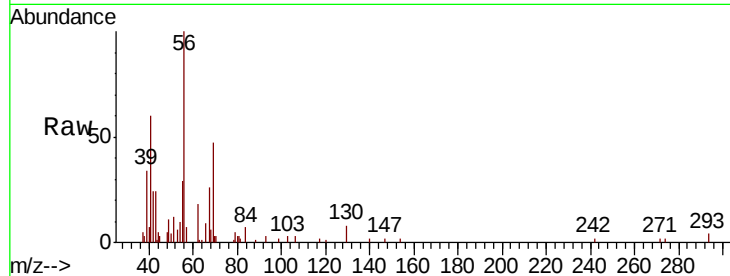
ClientSampleId :

QA1REDUP

Tot Ion:	62	Resp:	2278
Ion Ratio	Lower	Upper	
62	100		
98	15.1	5.4	8.2#

Manual Integrations
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#38

Trichloroethene

Concen: 0.001 ppbv

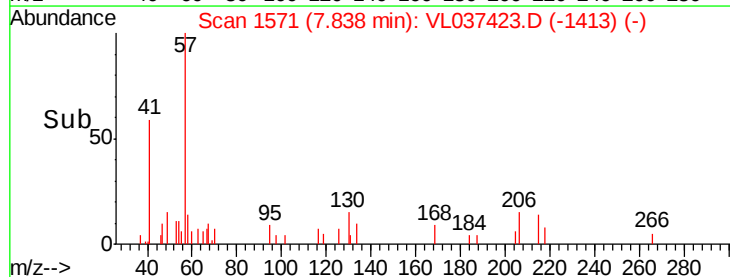
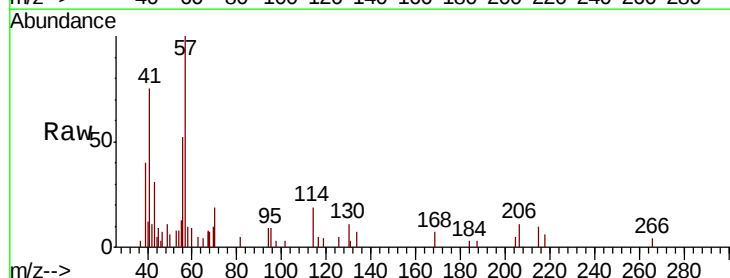
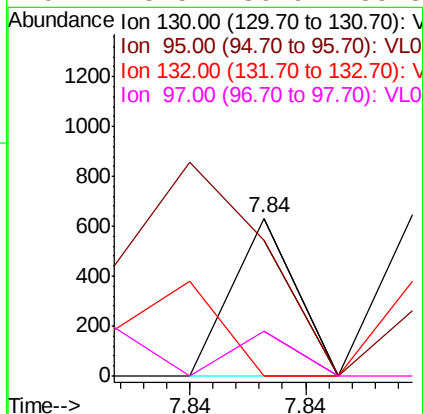
RT: 7.84 min Scan# 1571

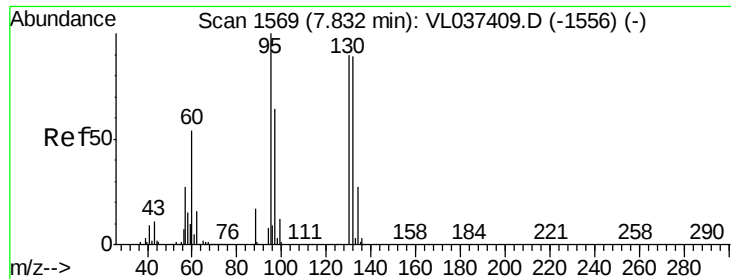
Delta R.T. 0.01 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:	130	Resp:	122
Ion Ratio	Lower	Upper	
130	100		
95	85.8	88.6	132.8#
132	0.0	79.2	118.8#
97	28.5	56.9	85.3#





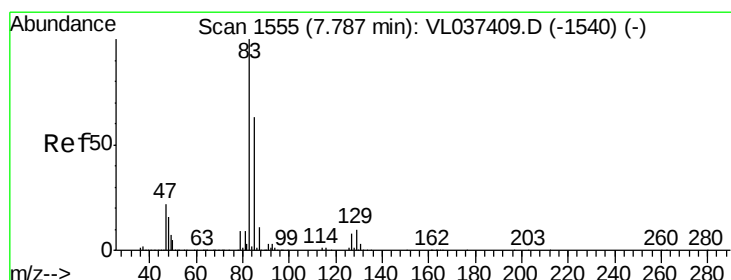
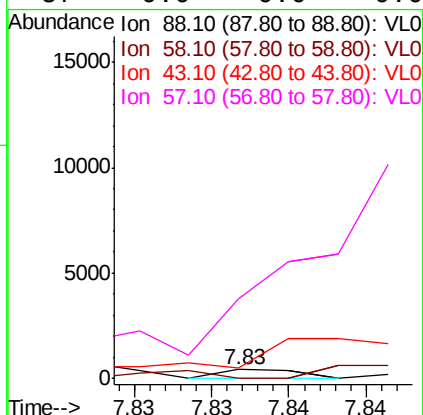
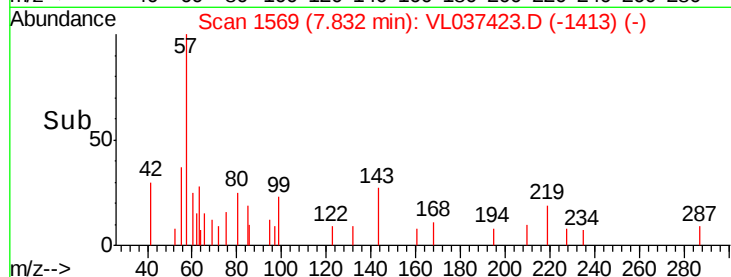
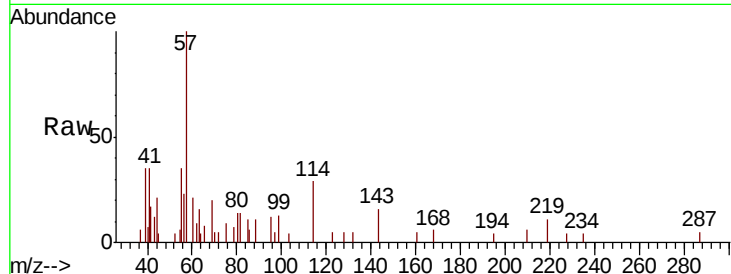
#40
 1,4-Dioxane
 Concen: 0.005 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1REDUP

Tot Ion	88	Resp	151
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

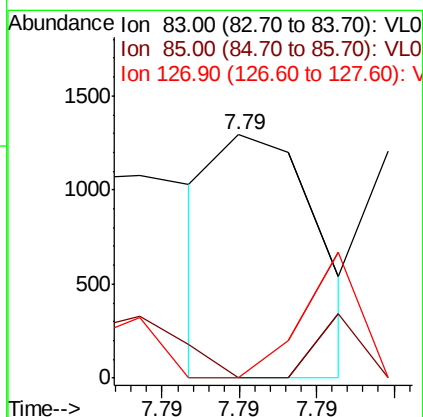
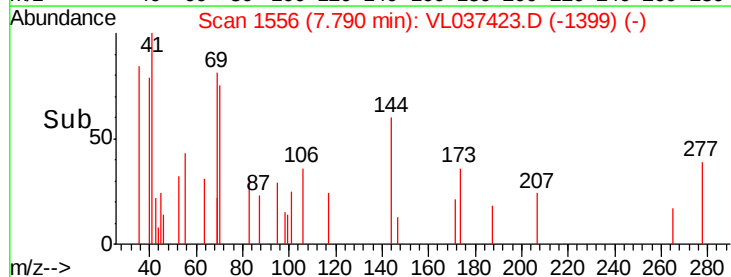
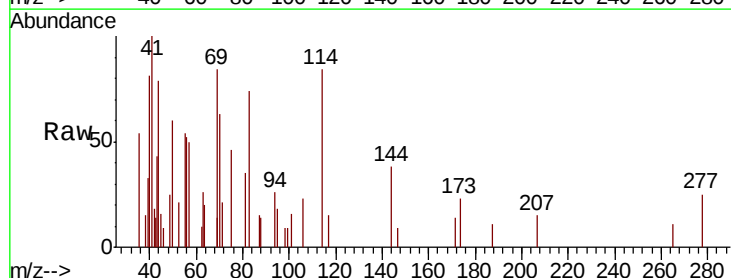
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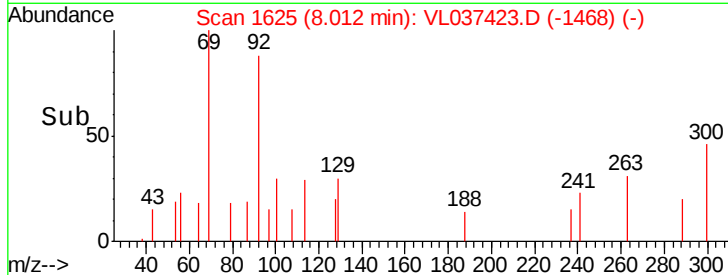
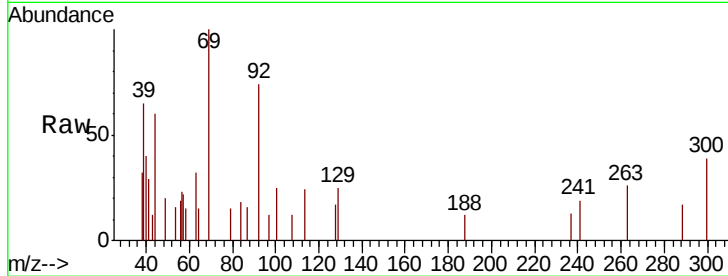
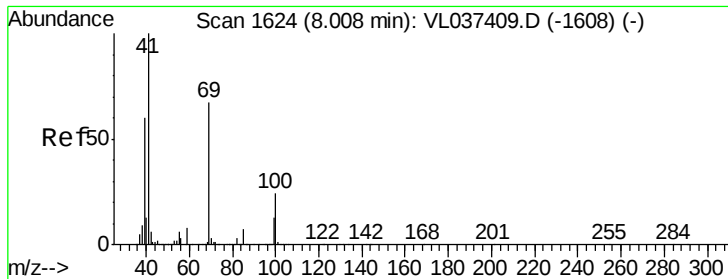
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#42
 Bromodichloromethane
 Concen: 0.003 ppbv
 RT: 7.79 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Tgt Ion	83	Resp	586
Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.2	75.2#
127	0.0	6.6	9.8#





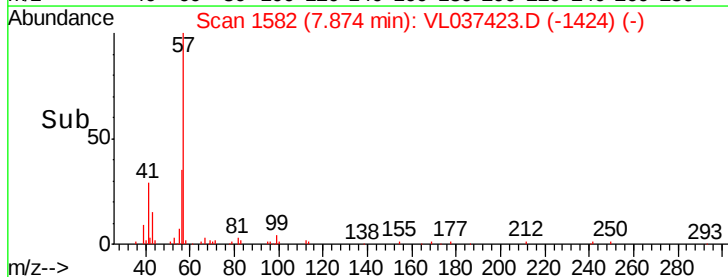
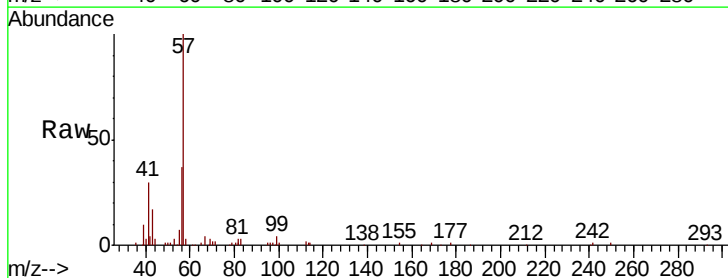
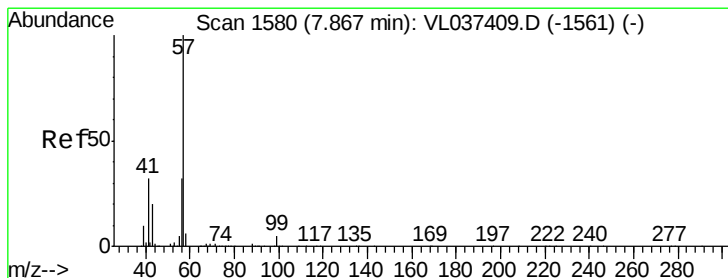
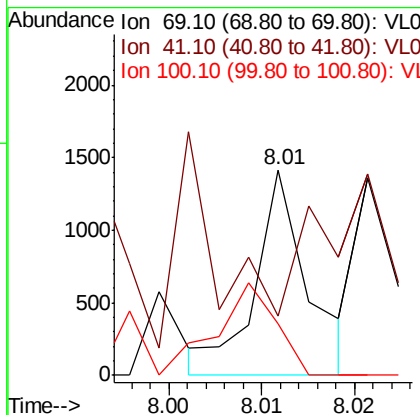
#43
Methvl Methacrilate
Concen: 0.005 ppbv
RT: 8.01 min Scan# 1625
Delta R.T. 0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.1	177.1#
100	67.5	27.6	41.4#

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

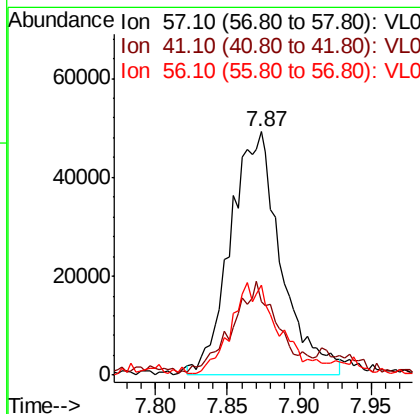
Manual Integrations
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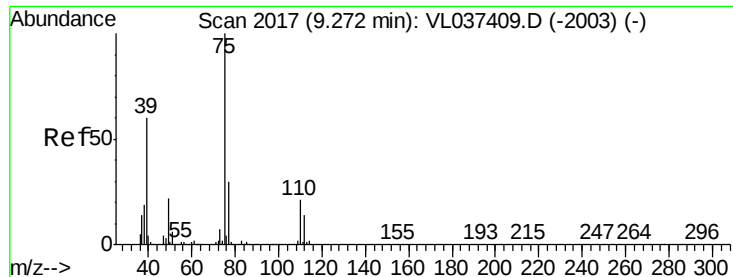
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#44
2,2,4-Trimethylpentane
Concen: 0.231 ppbv m
RT: 7.87 min Scan# 1582
Delta R.T. 0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.4	39.6#
56	41.2	25.0	37.4#





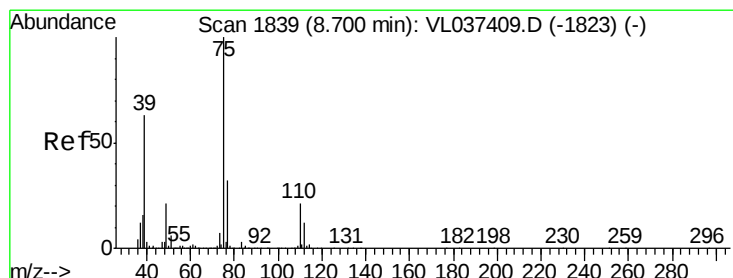
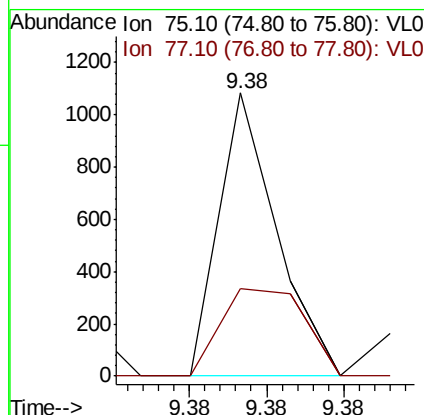
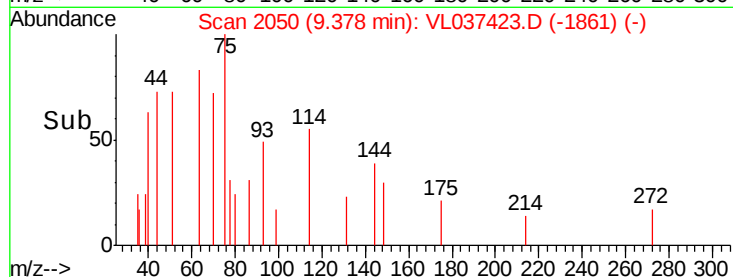
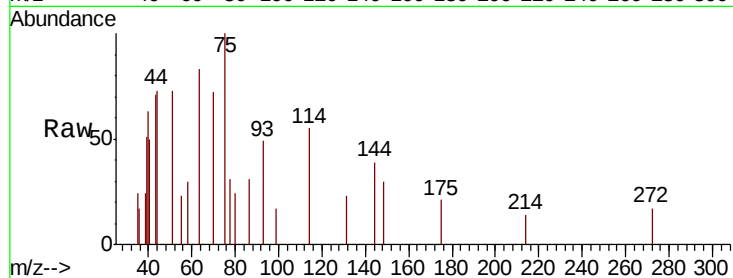
#45
t-1,3-Dichloropropene
Concen: 0.004 ppbv
RT: 9.38 min Scan# 2050
Delta R.T. 0.11 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampled :
QA1REDUP

Tot Ion: 75 Resp: 279
Ion Ratio Lower Upper
75 100
77 31.1 24.2 36.2

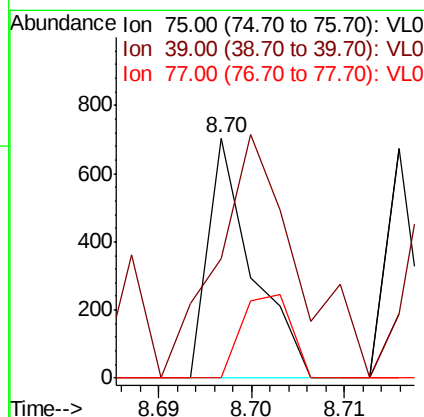
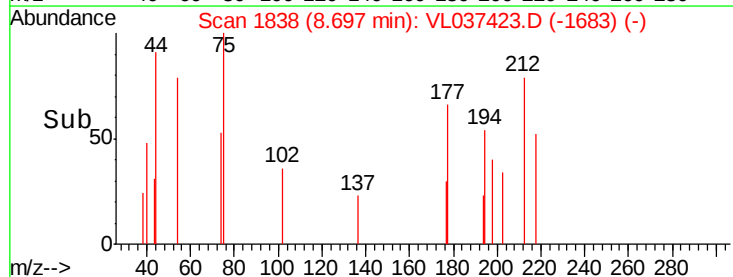
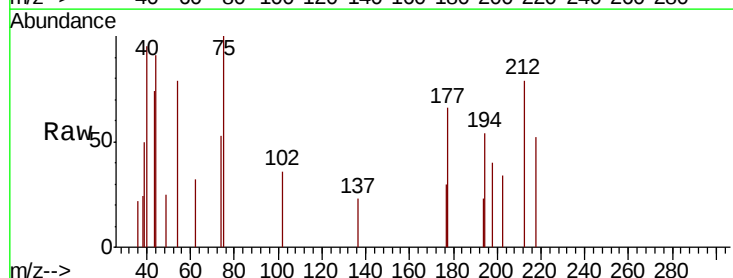
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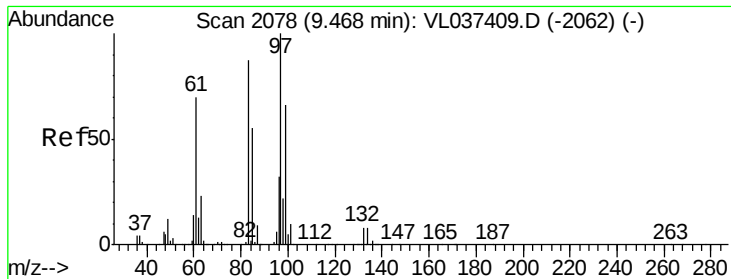
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#46
cis-1,3-Dichloropropene
Concen: 0.002 ppbv
RT: 8.70 min Scan# 1838
Delta R.T. -0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion: 75 Resp: 233
Ion Ratio Lower Upper
75 100
39 18.4 50.1 75.1#
77 0.0 25.8 38.8#





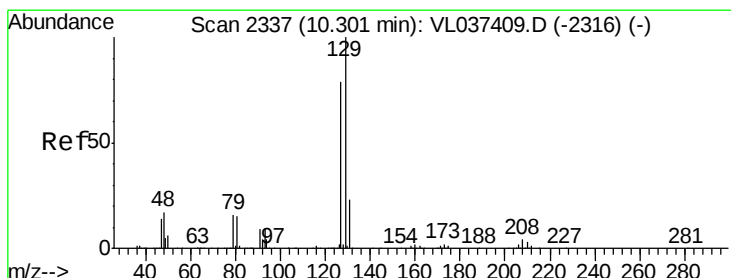
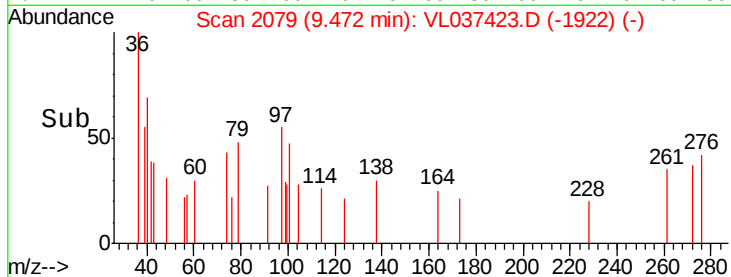
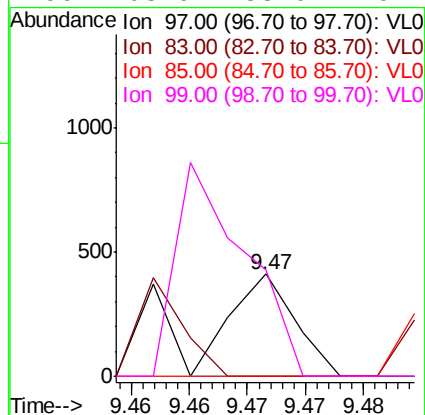
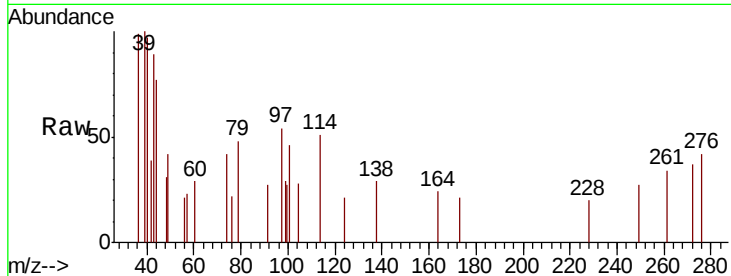
#47
 1,1,2-Trichloroethane
 Concen: 0.001 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1REDUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		159		
83	0.0	69.5	104.3#		
85	0.0	43.8	65.8#		
99	103.9	53.0	79.4#		

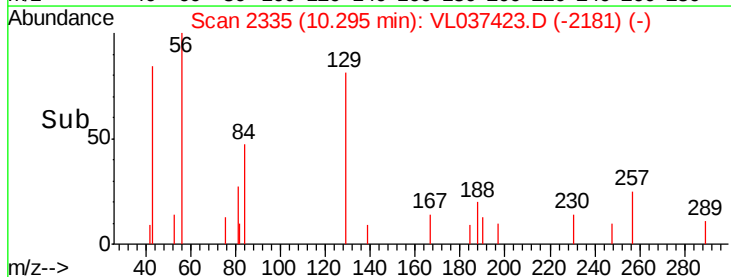
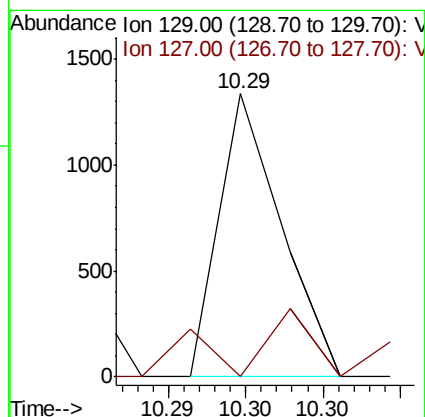
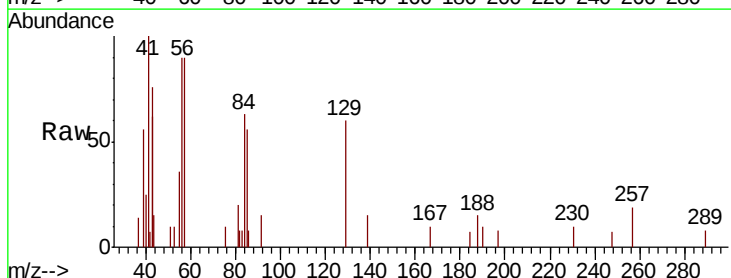
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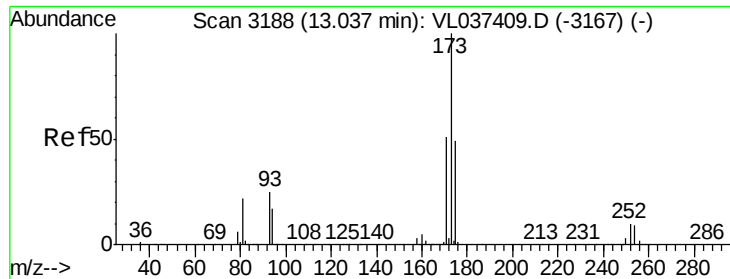
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#48
 Dibromochloromethane
 Concen: 0.002 ppbv
 RT: 10.29 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		371		
127	76.3	39.6	118.8		





#49

Bromoform

Concen: 0.001 ppbv

RT: 13.03 min Scan# 3186

Delta R.T. -0.01 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

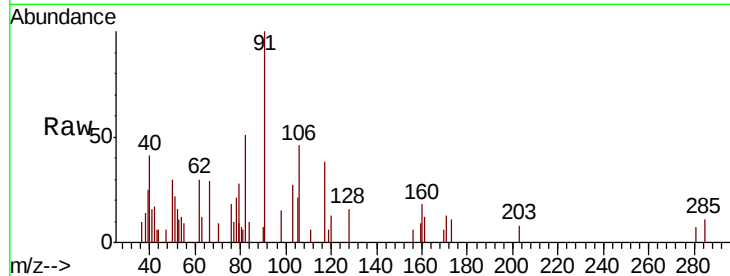
ClientSampleId :

QA1REDUP

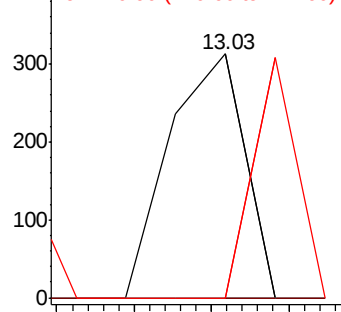
Tot Ion:	173	Resp:	106
Ion Ratio	Lower	Upper	
173	100		
175	115.1	39.9	59.9#
171	0.0	41.4	62.2#

Manual Integrations
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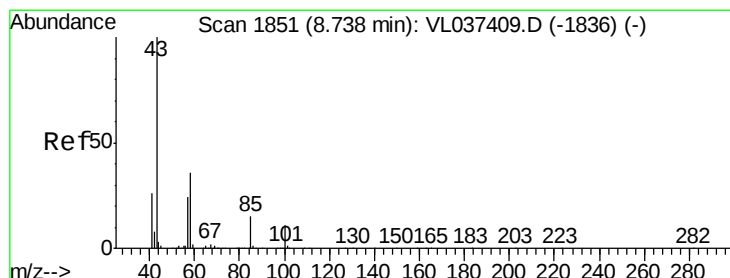
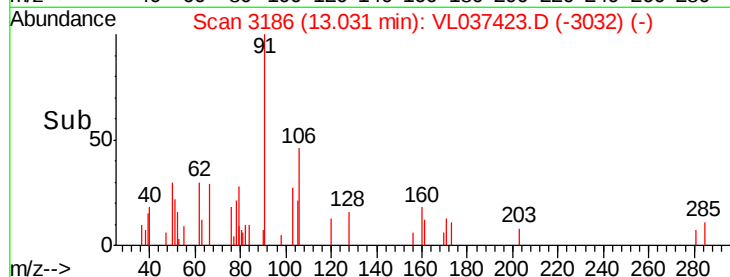
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



Time-->



#50

4-Methyl-2-Pentanone

Concen: 0.001 ppbv

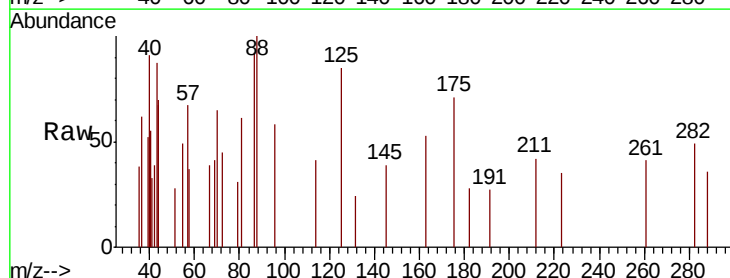
RT: 8.74 min Scan# 1852

Delta R.T. 0.00 min

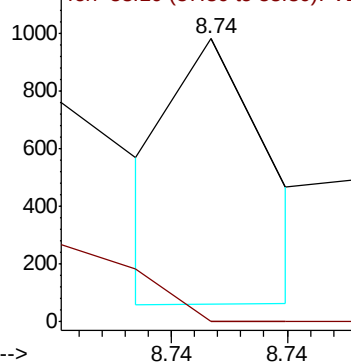
Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

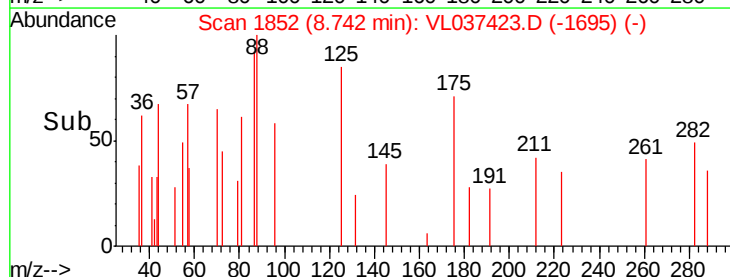
Tgt Ion:	43	Resp:	256
Ion Ratio	Lower	Upper	
43	100		
58	0.0	29.9	44.9#

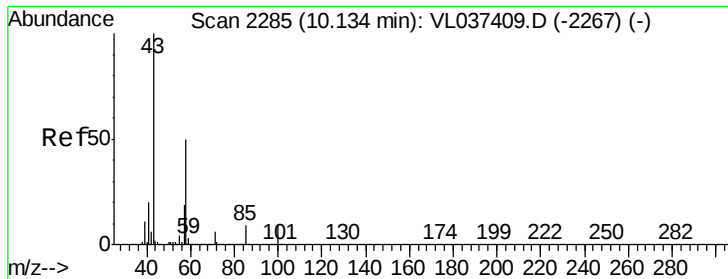


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0



Time-->





#51

2-Hexanone

Concen: 0.007 ppbv

RT: 10.13 min Scan# 2283

Delta R.T. -0.01 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

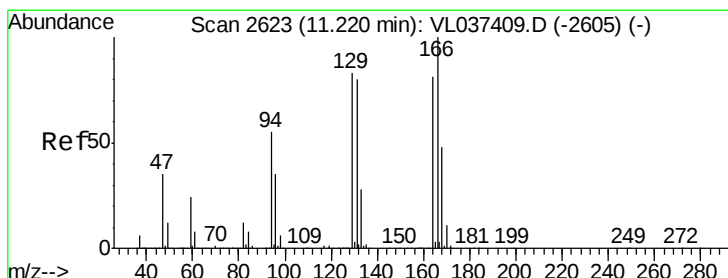
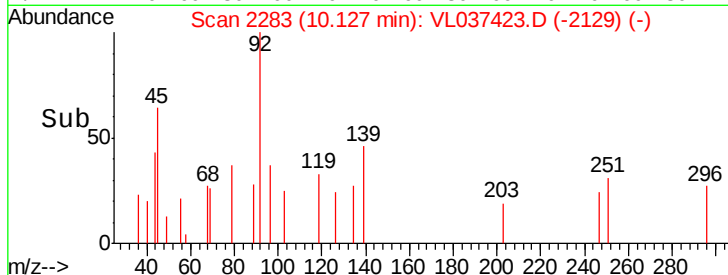
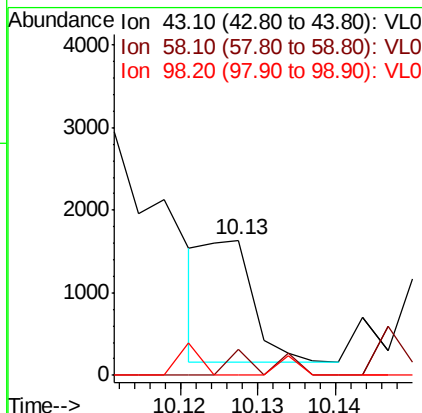
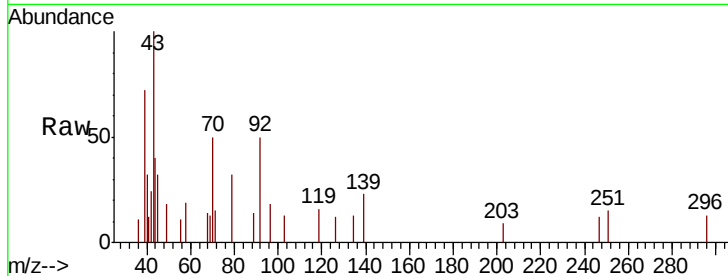
ClientSampleId :

OA1REDUP

Tot Ion:	43	Resp:	633
Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.9	59.9#
98	0.0	0.2	0.2#

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#52

Tetrachloroethene

Concen: 0.062 ppbv m

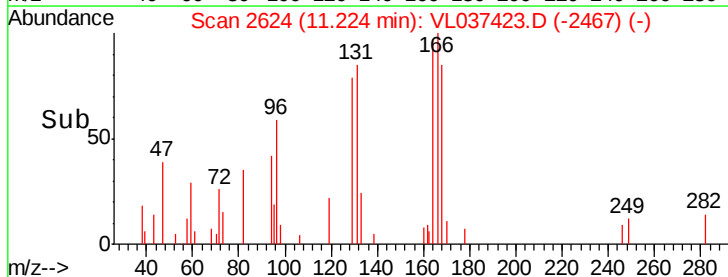
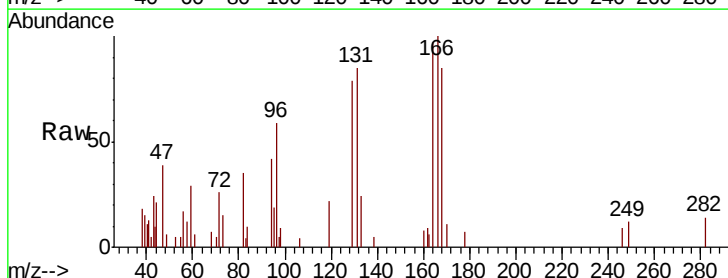
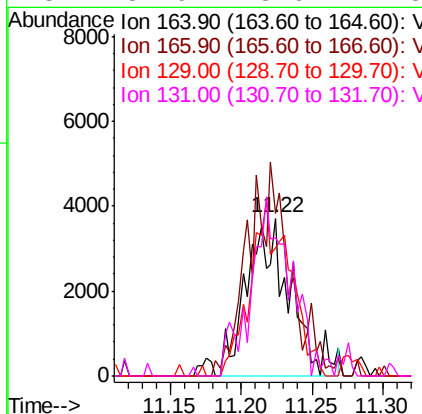
RT: 11.22 min Scan# 2624

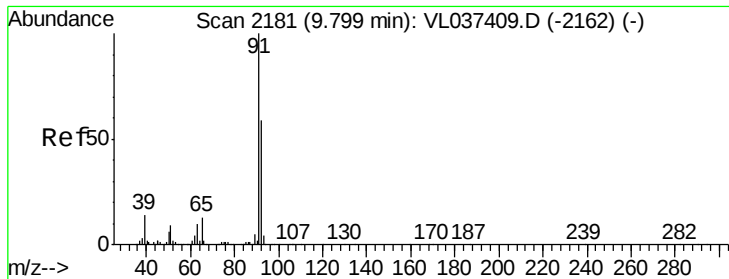
Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:	164	Resp:	8180
Ion	Ratio	Lower	Upper
164	100		
166	103.0	98.6	147.8
129	81.4	82.0	123.0#
131	87.9	78.6	117.8





#53

Toluene

Concen: 1.211 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

ClientSampleId :

QA1REDUP

Tot Ion: 91 Resp: 430954

Ion Ratio Lower Upper

91 100

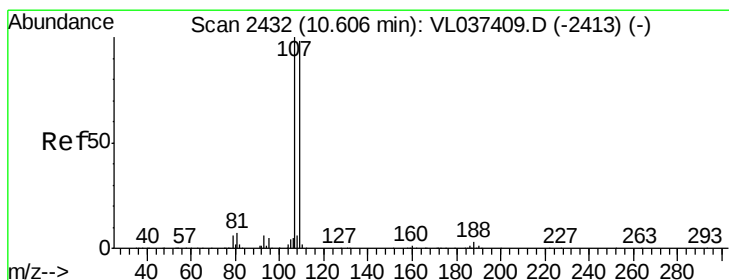
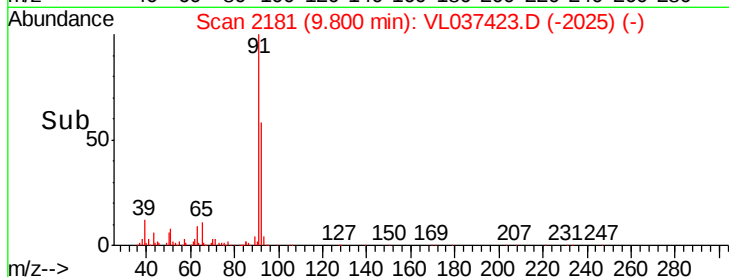
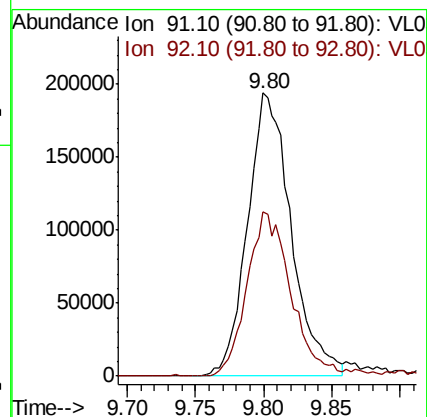
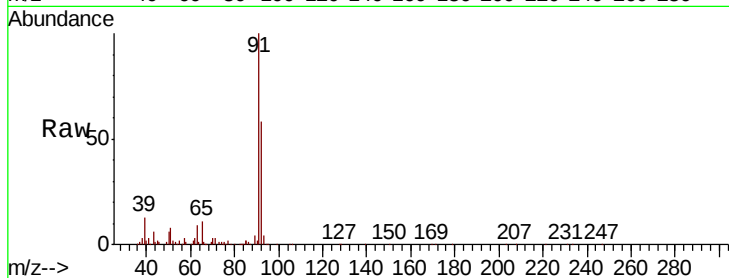
92 59.3 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. 0.02 min

Lab File: VL037423.D

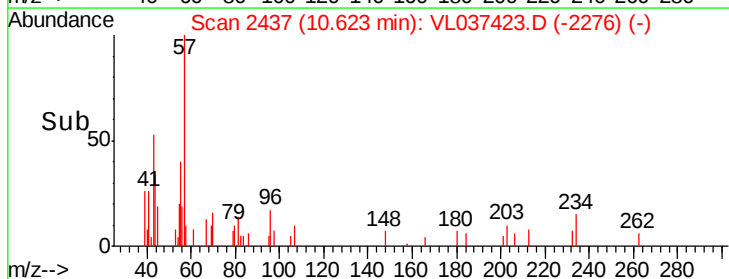
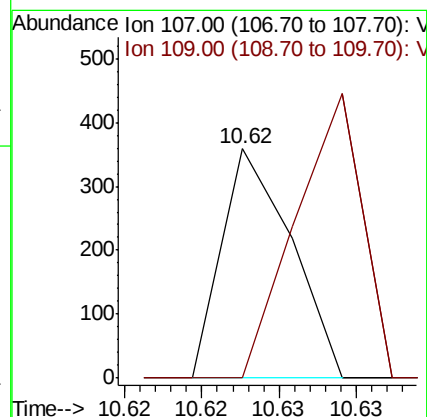
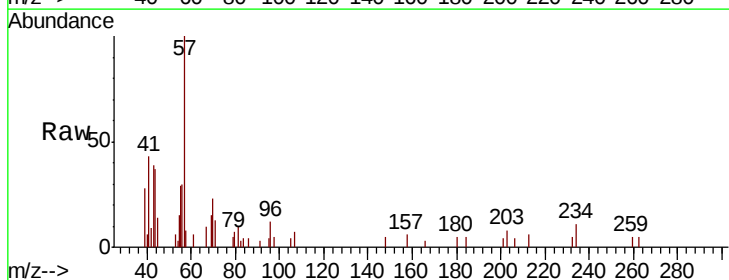
Acq: 12 Aug 2021 21:25

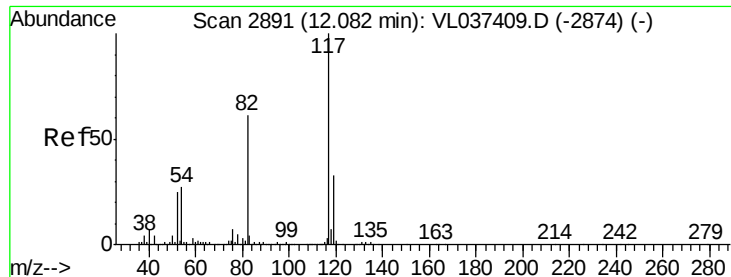
Tgt Ion: 107 Resp: 112

Ion Ratio Lower Upper

107 100

109 0.0 78.4 117.6#





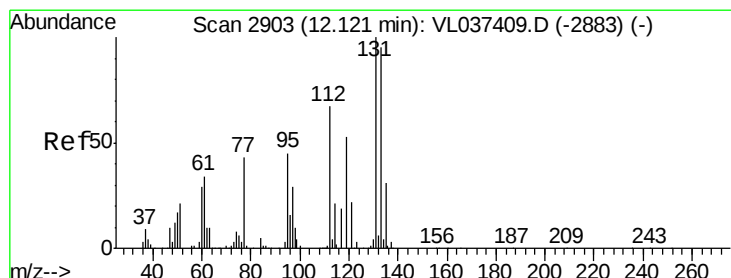
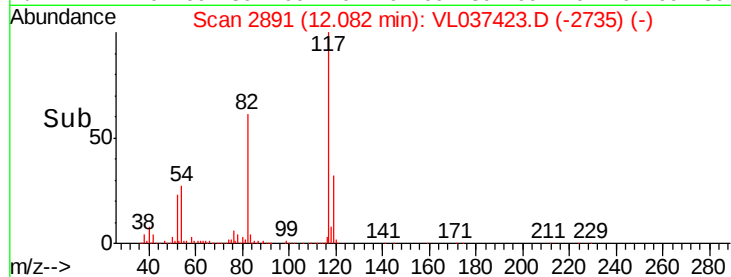
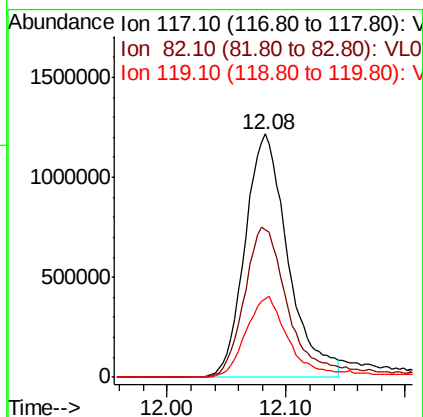
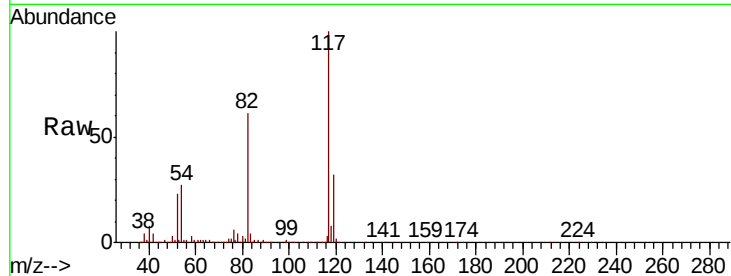
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.7	53.1	79.7
119	34.4	28.0	42.0

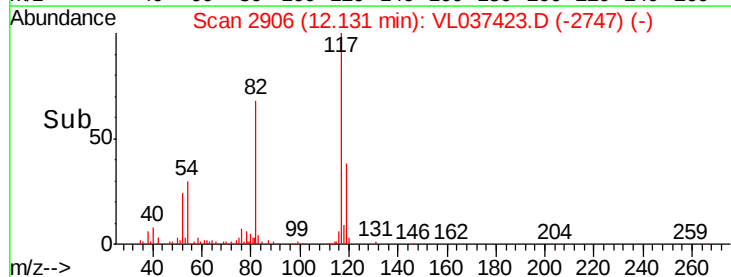
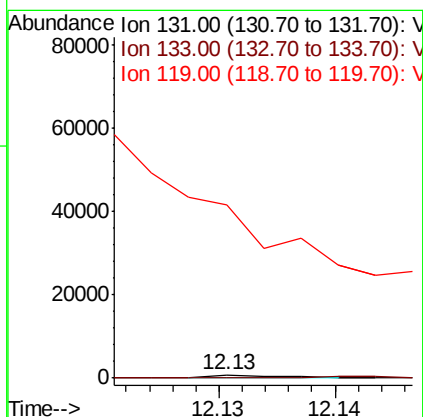
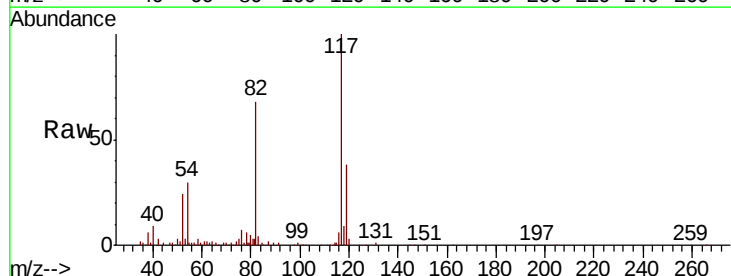
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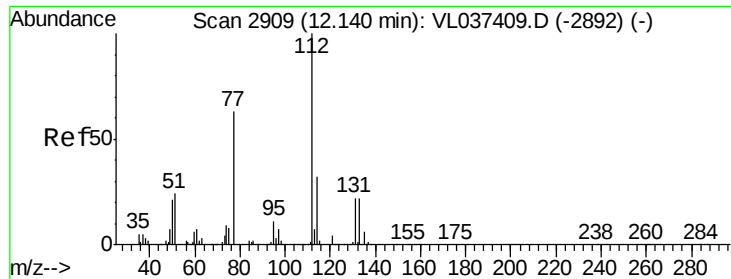
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.002 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. 0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

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





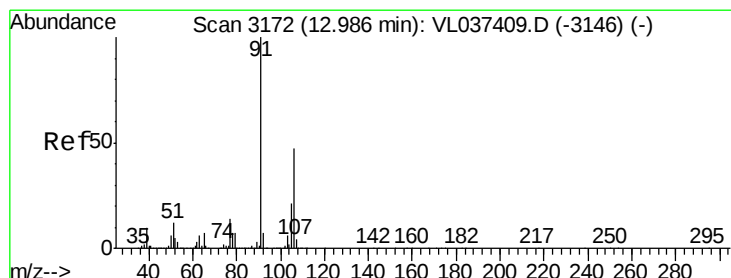
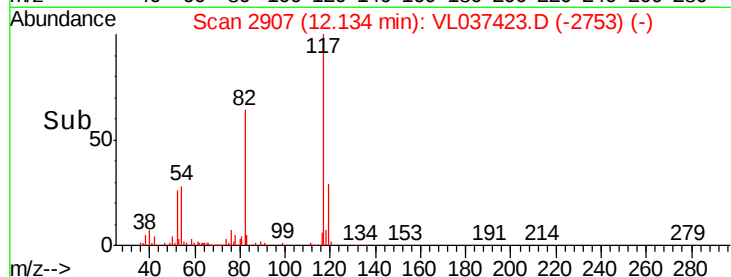
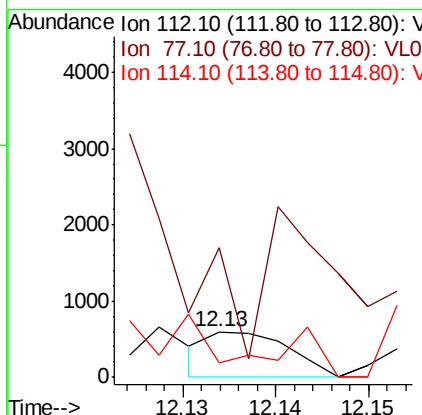
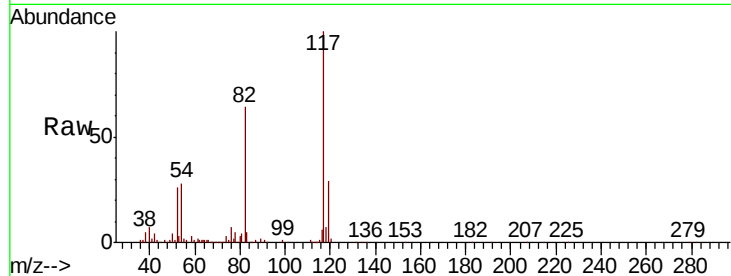
#57
Chlorobenzene
Concen: 0.001 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
QA1REDUP

Tot Ion	Ratio	Lower	Upper
112	100		
77	142.4	50.0	75.0#
114	31.5	28.5	34.9

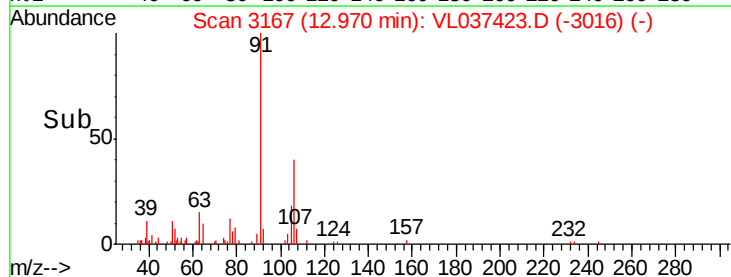
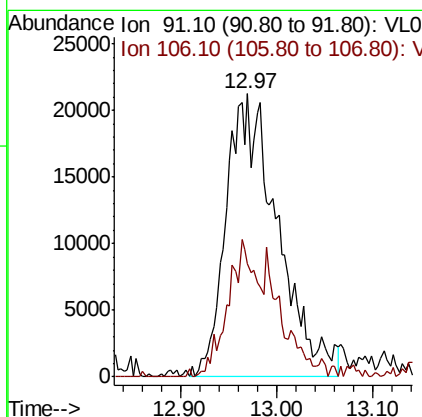
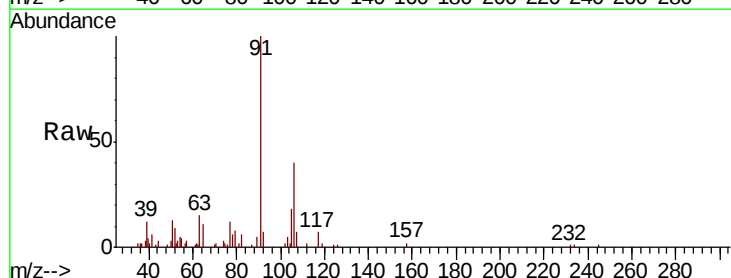
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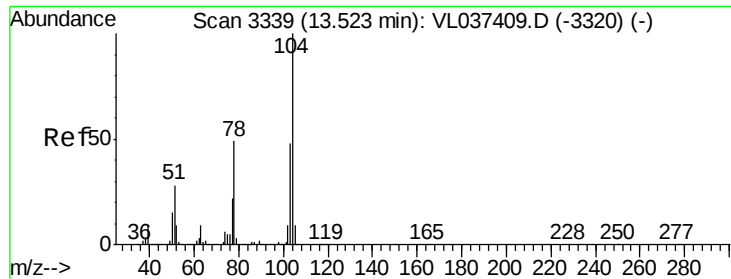
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#59
m/p-Xylene
Concen: 0.218 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.02 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	54.8#





#61

Stvrene

Concen: 0.007 ppbv

RT: 13.53 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

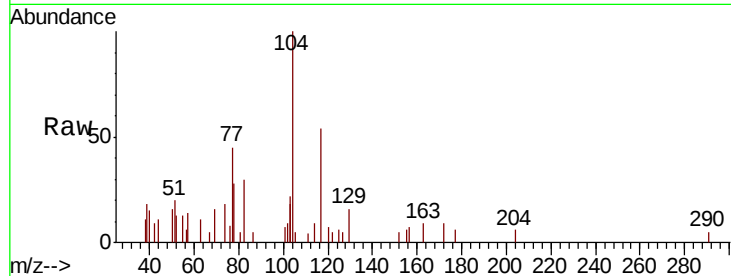
ClientSampleId :

OA1REDUP

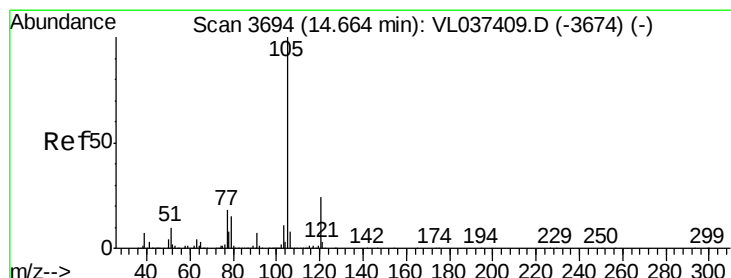
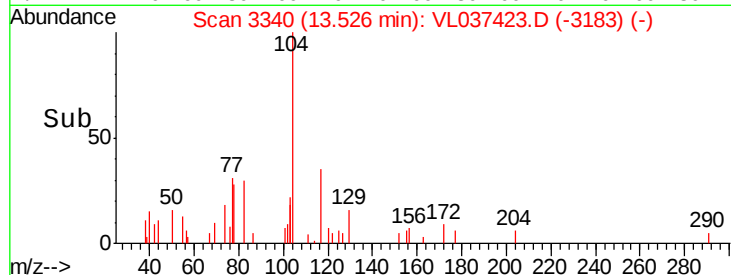
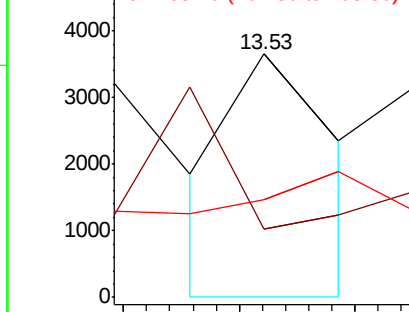
Tot Ion:	104	Resp:	1158
Ion Ratio	Lower	Upper	
104	100		
78	345.0	41.5	62.3#
103	259.9	40.2	60.2#

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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



#62

Isopropylbenzene

Concen: 0.002 ppbv

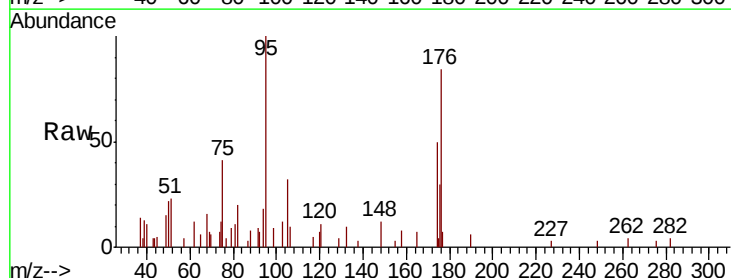
RT: 14.66 min Scan# 3693

Delta R.T. -0.00 min

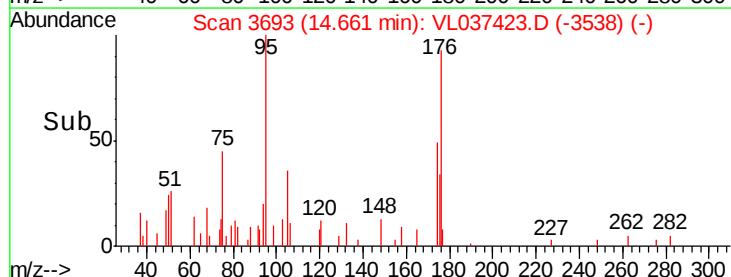
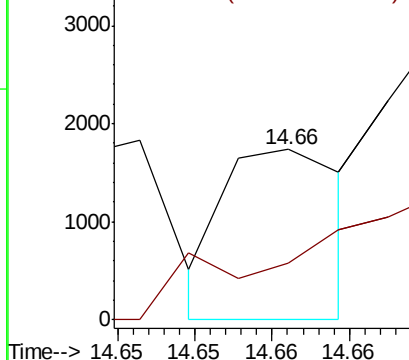
Lab File: VL037423.D

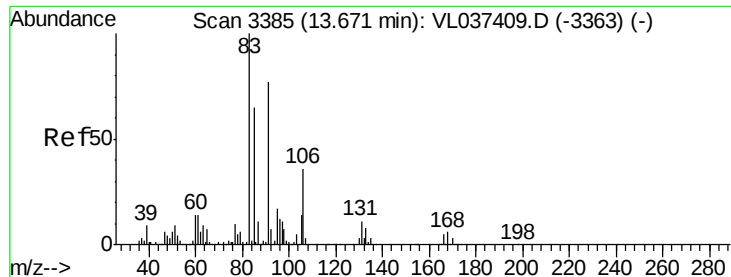
Acq: 12 Aug 2021 21:25

Tgt Ion:	105	Resp:	943
Ion Ratio	Lower	Upper	
105	100		
120	0.0	21.6	32.4#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.002 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

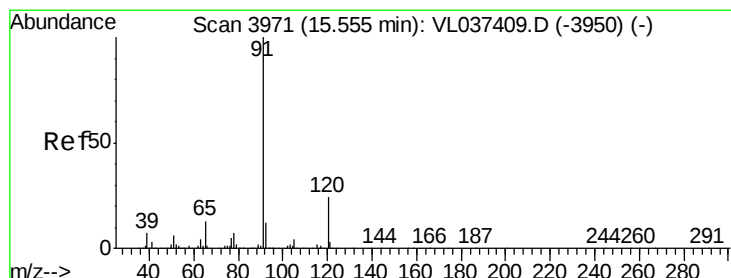
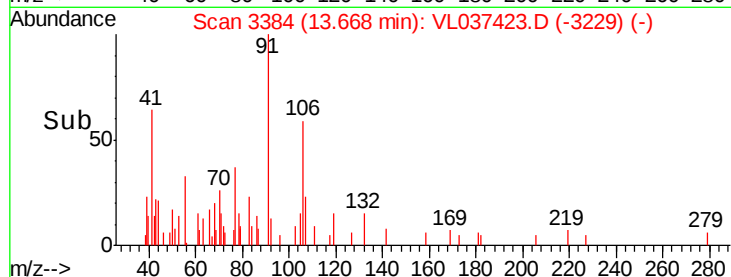
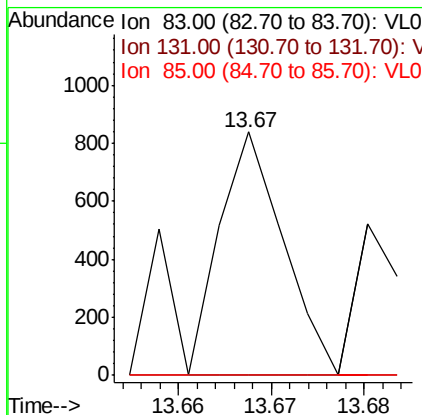
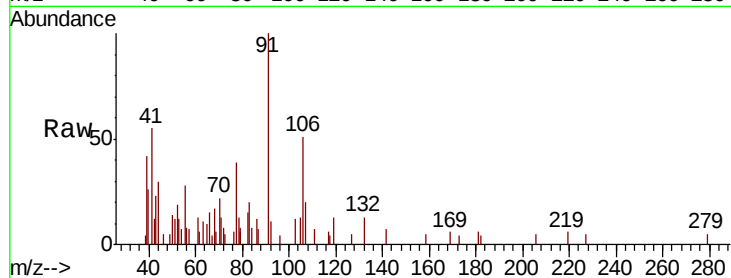
ClientSampleId :

QA1REDUP

Tot Ion:	83	Resp:	403
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.1	15.4#
85	0.0	33.4	100.2#

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#64

n-propylbenzene

Concen: 0.001 ppbv

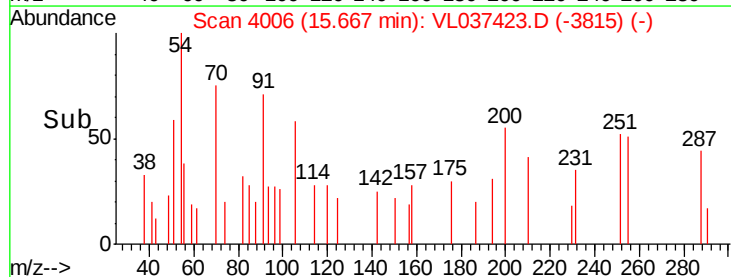
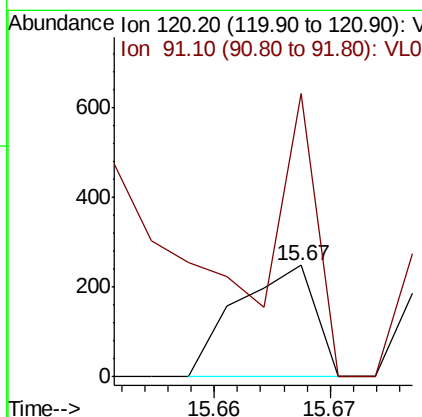
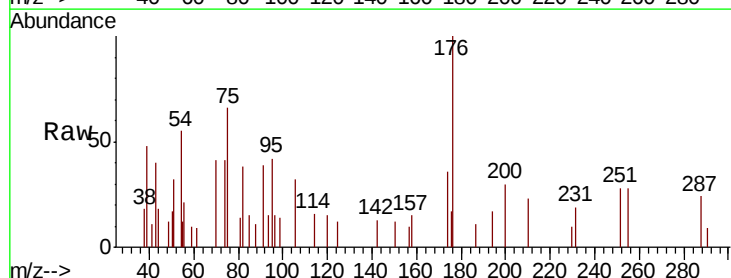
RT: 15.67 min Scan# 4006

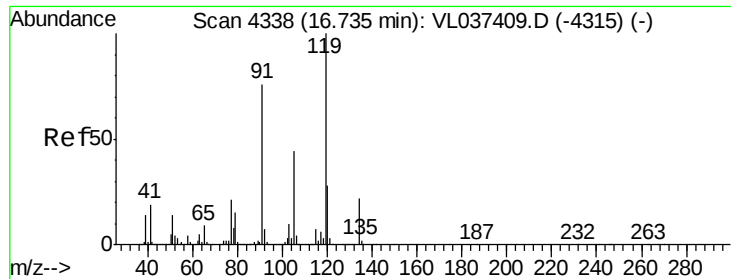
Delta R.T. 0.11 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:	120	Resp:	117
Ion Ratio	Lower	Upper	
120	100		
91	462.4	388.4	582.6





#65

tert-Butylbenzene

Concen: 0.001 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

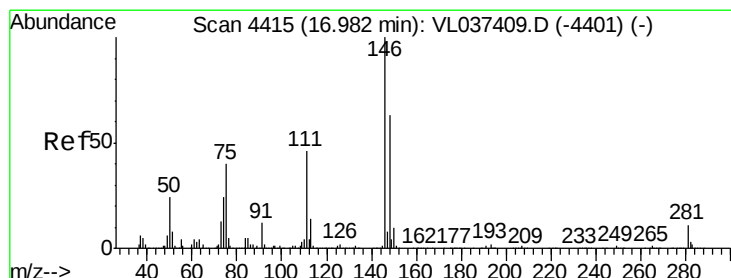
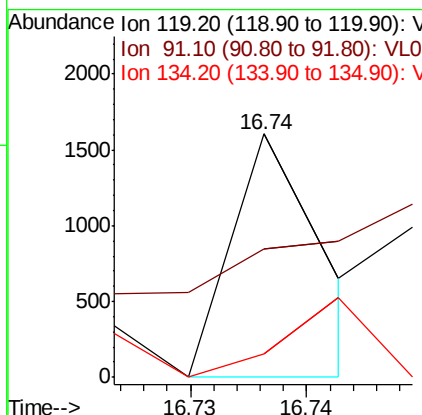
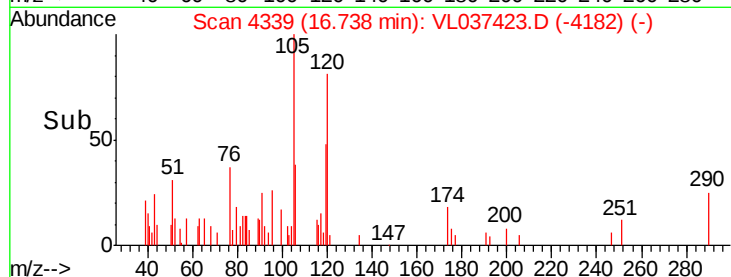
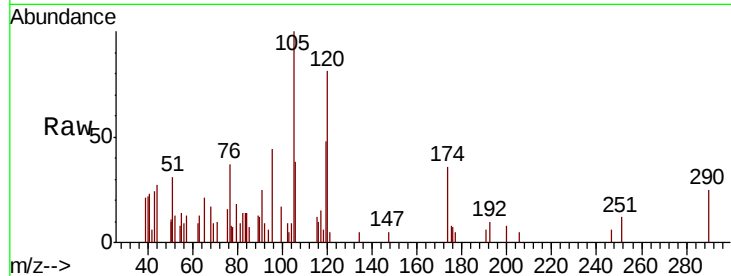
ClientSampleId :

QA1REDUP

Tot Ion:	119	Resp:	435
Ion Ratio	Lower	Upper	
119	100		
91	0.0	62.2	93.4#
134	43.2	16.1	24.1#

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#66

Benzyl Chloride

Concen: 0.012 ppbv

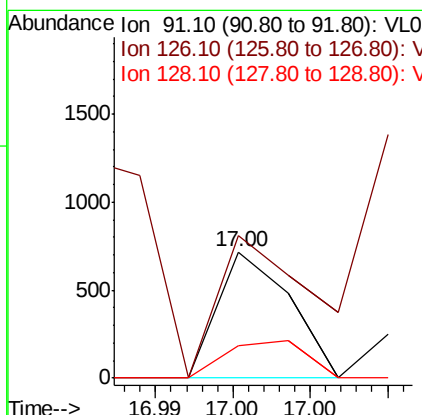
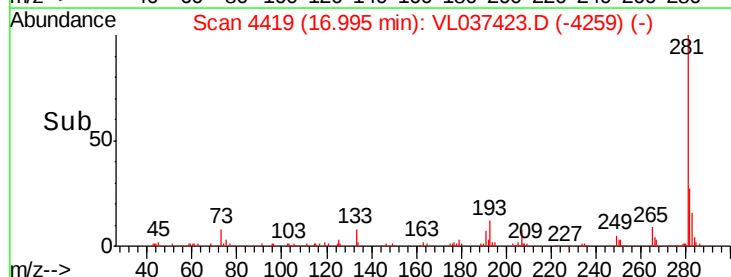
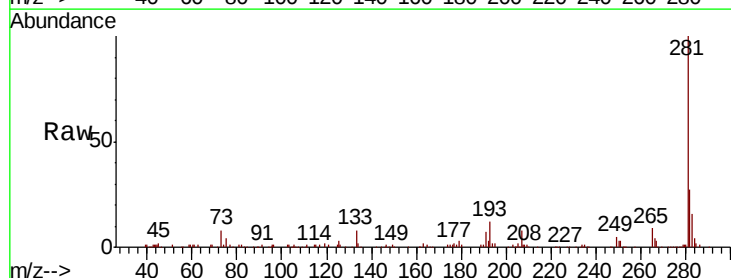
RT: 17.00 min Scan# 4419

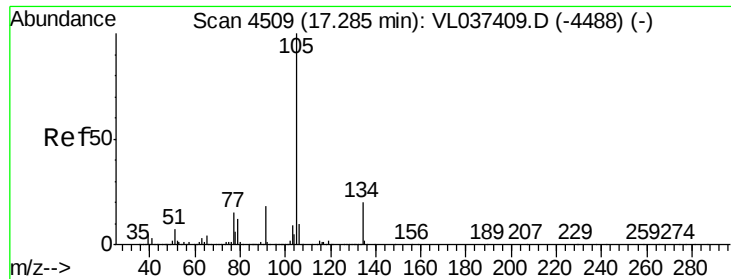
Delta R.T. 0.01 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:	91	Resp:	231
Ion Ratio	Lower	Upper	
91	100		
126	0.0	14.3	21.5#
128	0.0	4.6	7.0#





#67

sec-Butylbenzene

Concen: 0.002 ppbv

RT: 17.29 min Scan# 4510

Delta R.T. 0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

ClientSampleId :

QA1REDUP

Tot Ion: 105 Resp: 1262

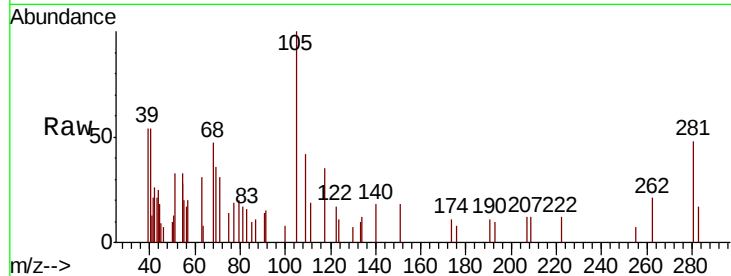
Ion Ratio Lower Upper

105 100

134 39.4 15.4 23.0#

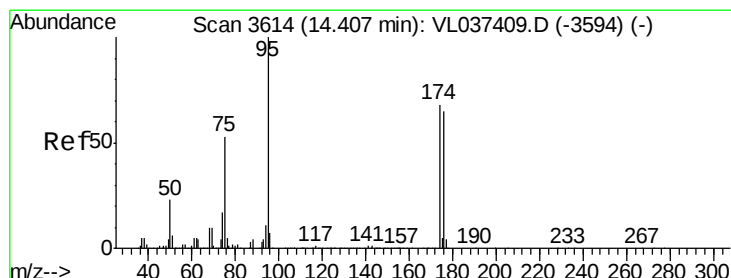
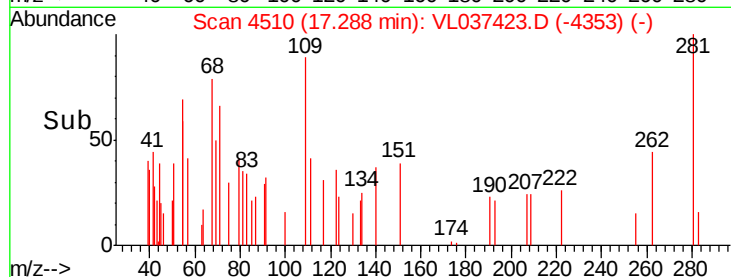
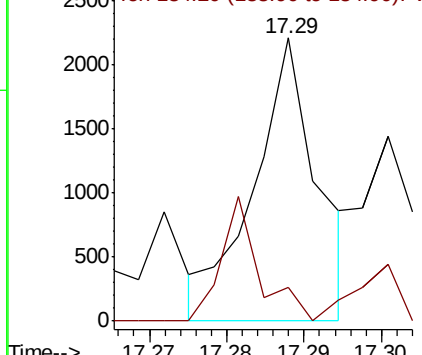
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.466 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.01 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

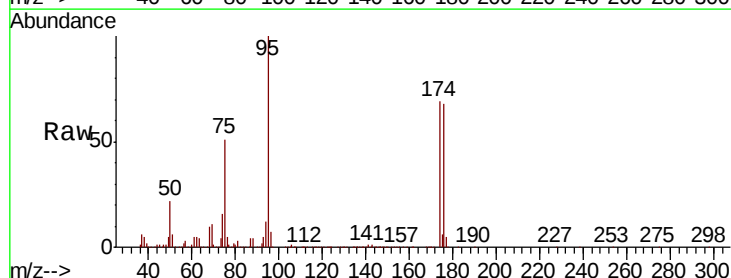
Tgt Ion: 95 Resp: 2062236

Ion Ratio Lower Upper

95 100

174 82.8 59.6 89.4

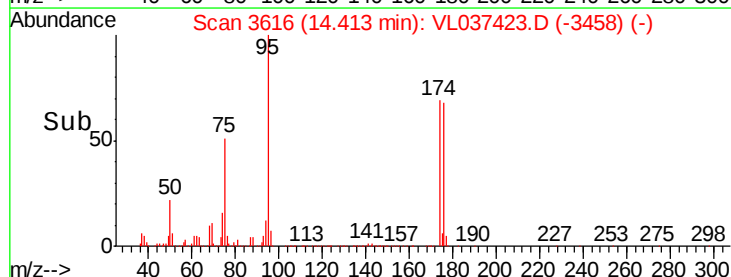
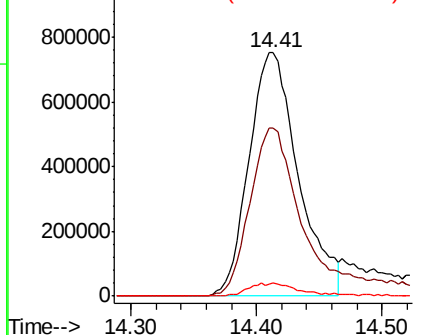
175 6.1 4.3 6.5

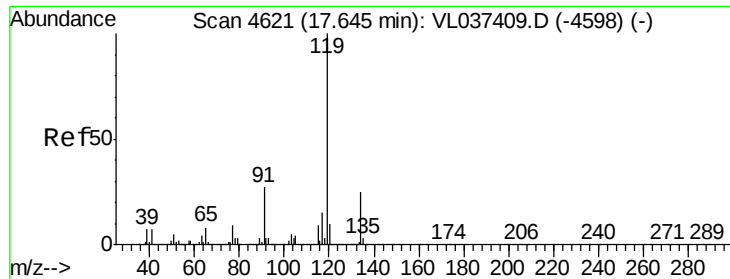


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





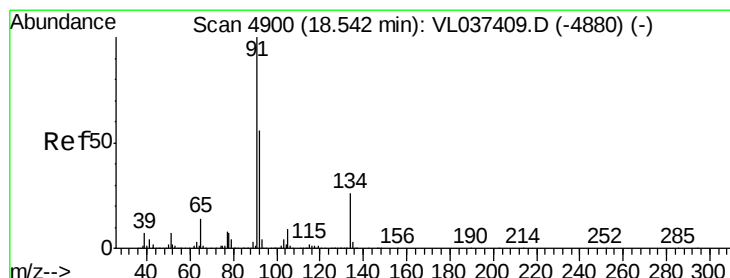
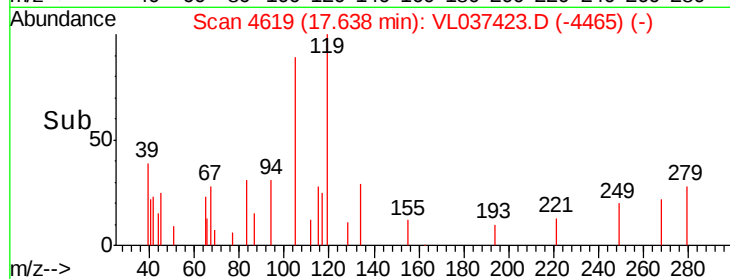
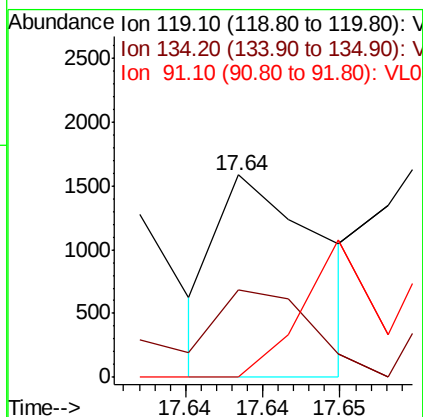
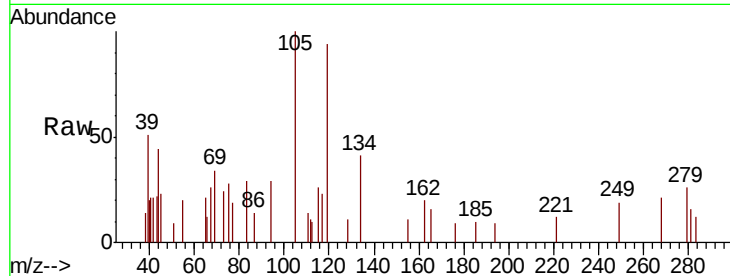
#69
 p-Isopropyltoluene
 Concen: 0.002 ppbv
 RT: 17.64 min Scan# 4619
 Delta R.T. -0.01 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampleID :
 OA1REDUP

Tot Ion	Ratio	Lower	Upper
119	100		
134	51.1	20.6	31.0#
91	0.0	22.4	33.6#

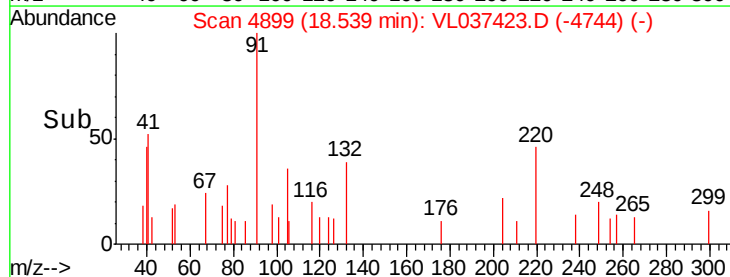
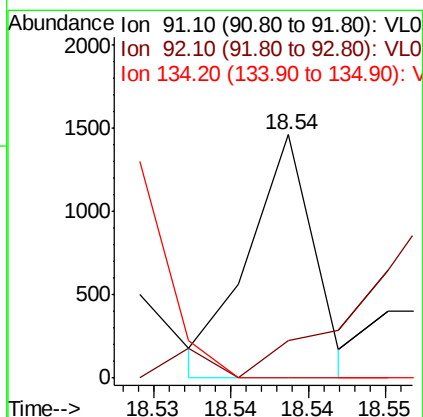
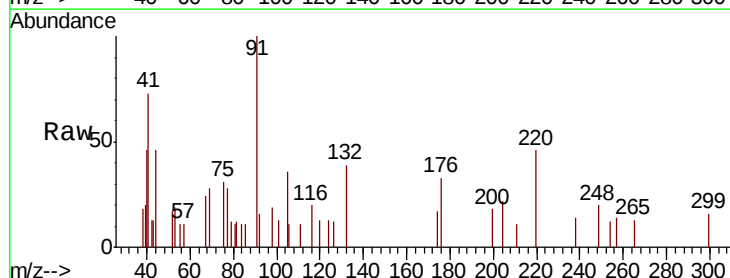
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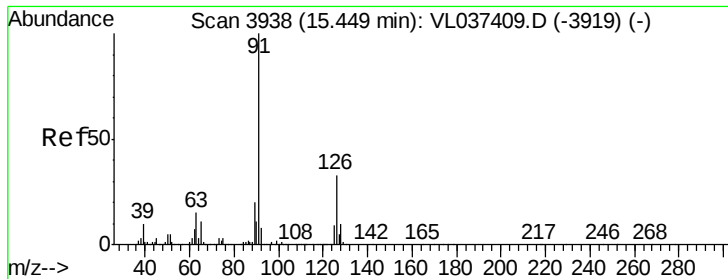
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#70
 n-Butylbenzene
 Concen: 0.001 ppbv
 RT: 18.54 min Scan# 4899
 Delta R.T. -0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

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





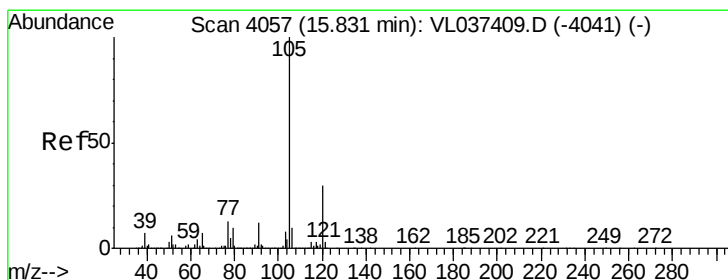
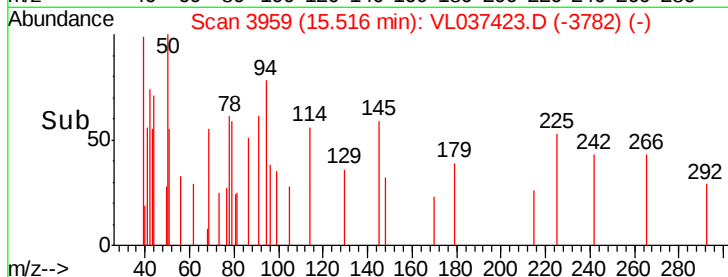
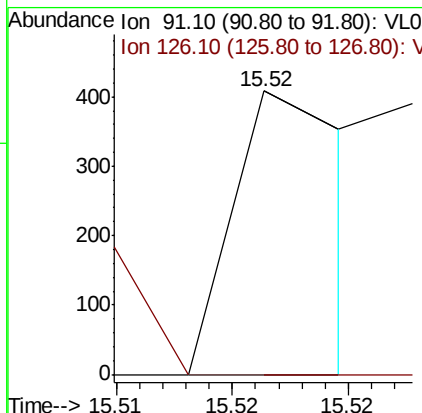
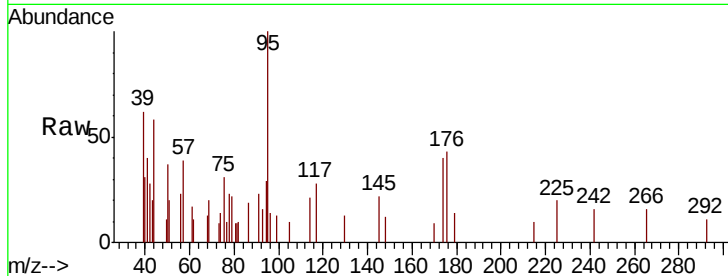
#71
 2-Chlorotoluene
 Concen: 0.000 ppbv
 RT: 15.52 min Scan# 3959
 Delta R.T. 0.07 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampled :
 OA1REDUP

Tot Ion: 91 Resp: 147
 Ion Ratio Lower Upper
 91 100
 126 23.8 13.5 53.9

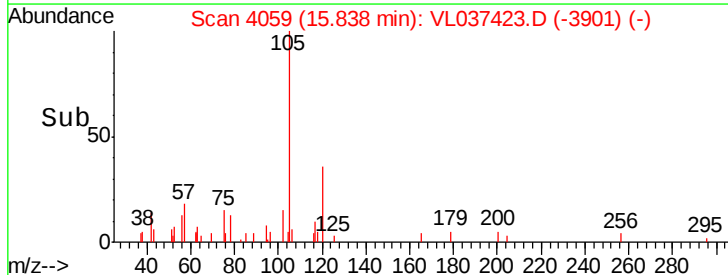
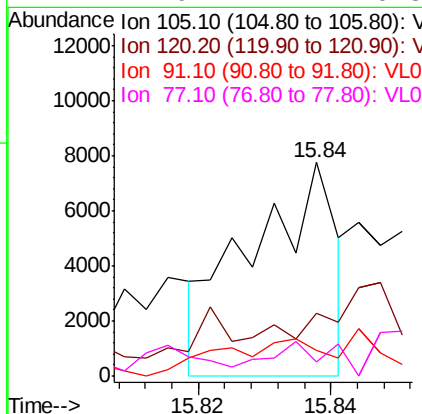
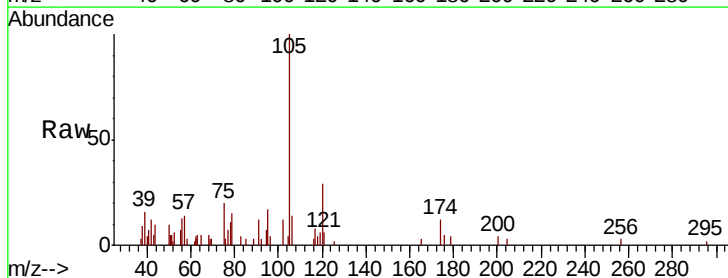
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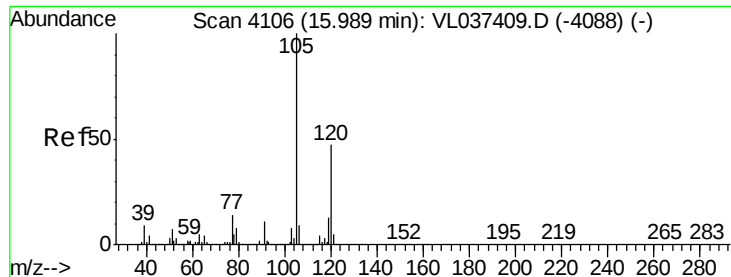
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#72
 4-Ethyltoluene
 Concen: 0.018 ppbv
 RT: 15.84 min Scan# 4059
 Delta R.T. 0.01 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Tgt Ion: 105 Resp: 6955
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.0 37.4#
 91 0.0 11.2 16.8#
 77 21.9 11.2 16.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.009 ppbv

RT: 15.99 min Scan# 4105

Delta R.T. -0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

ClientSampleId :

QA1REDUP

Tot Ion:105 Resp: 3341

Ion Ratio Lower Upper

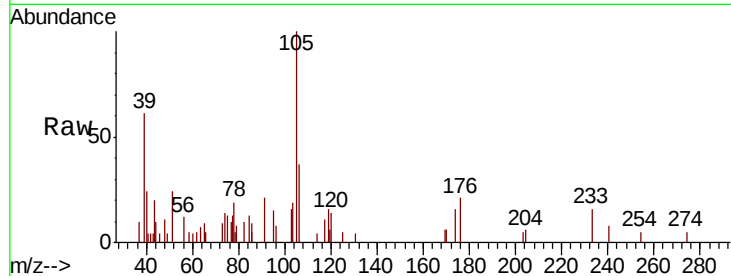
105 100

120 2.7 37.4 56.0#

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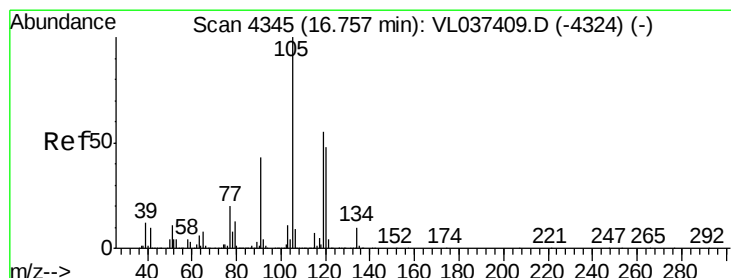
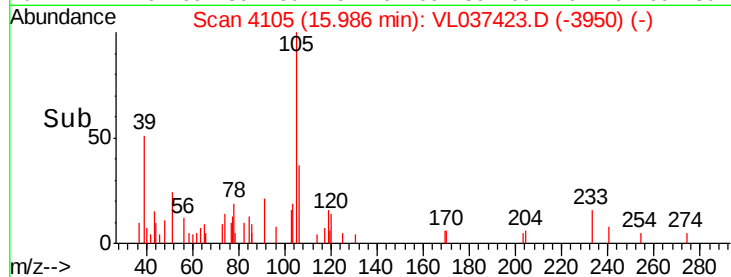
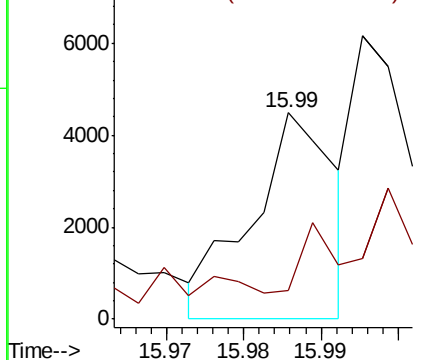
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.026 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:105 Resp: 9795

Ion Ratio Lower Upper

105 100

120 18.0 38.2 57.2#

91 17.9 35.4 53.2#

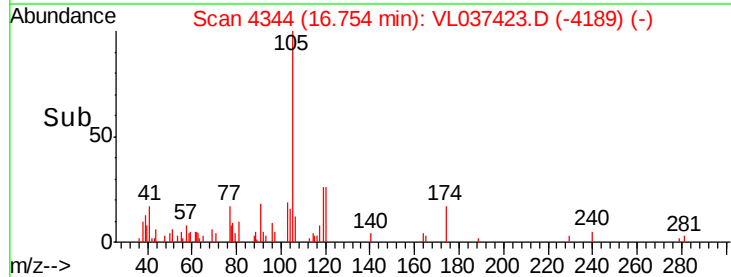
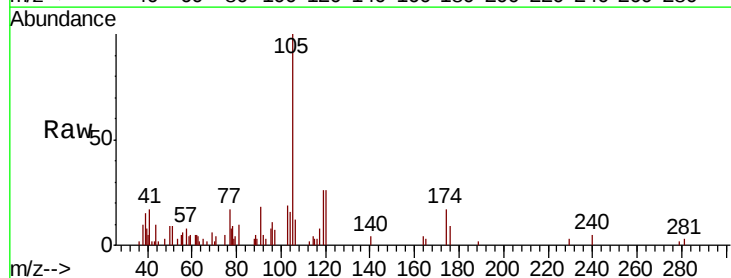
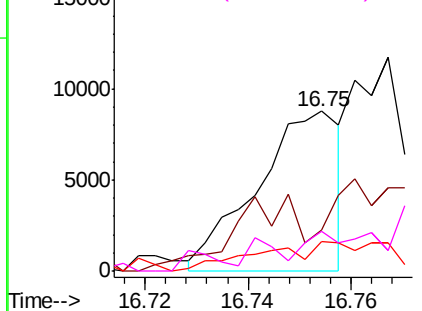
77 13.1 16.2 24.2#

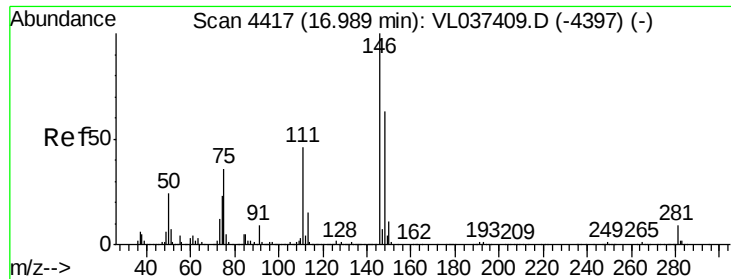
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.003 ppbv

RT: 16.99 min Scan# 4416

Delta R.T. -0.00 min

Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Instrument :

MSVOA_L

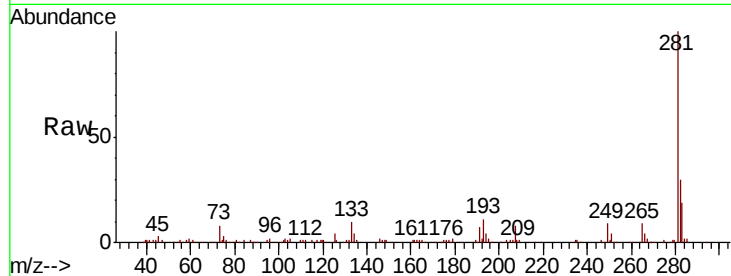
ClientSampleId :

OA1REDUP

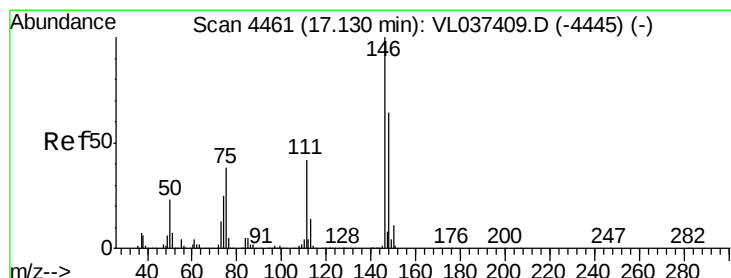
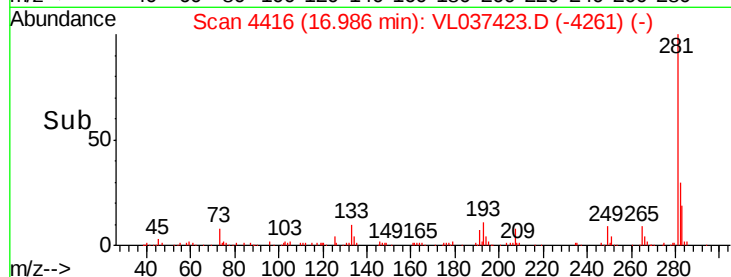
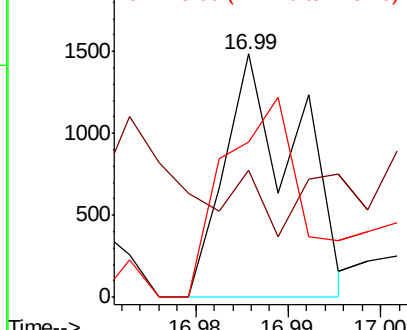
Tot Ion:	146	Resp:	809
Ion Ratio	Lower	Upper	
146	100		
111	0.0	22.9	68.7#
148	86.2	32.0	96.2

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.004 ppbv

RT: 17.13 min Scan# 4461

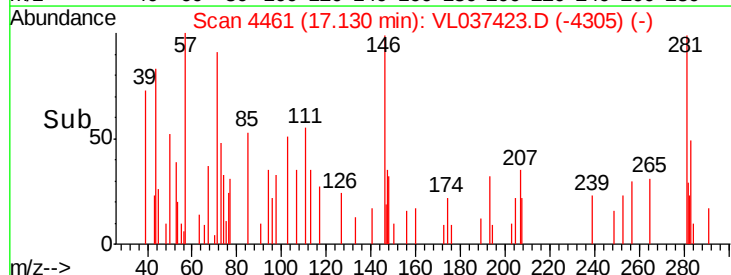
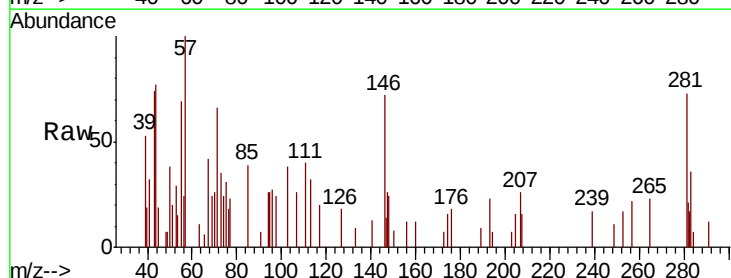
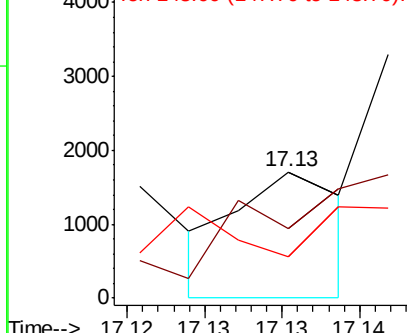
Delta R.T. 0.00 min

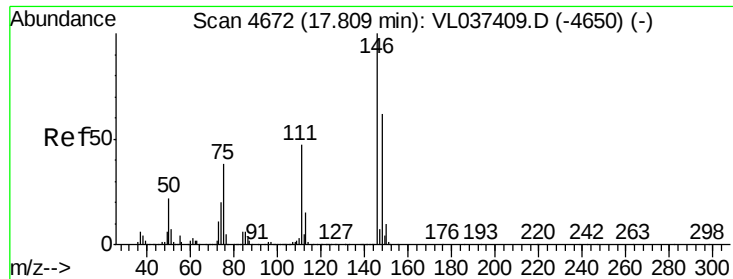
Lab File: VL037423.D

Acq: 12 Aug 2021 21:25

Tgt Ion:	146	Resp:	824
Ion Ratio	Lower	Upper	
146	100		
111	0.0	22.8	68.4#
148	0.0	34.0	102.0#

Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





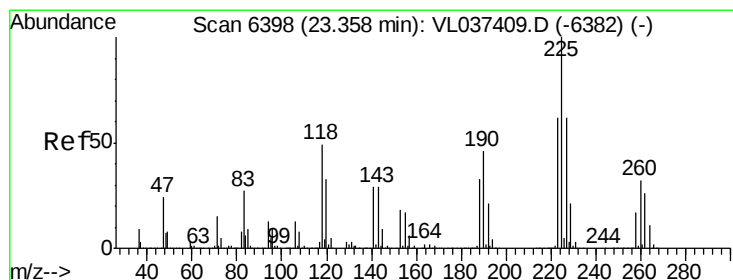
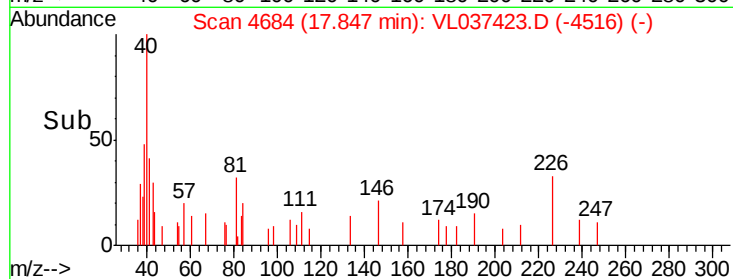
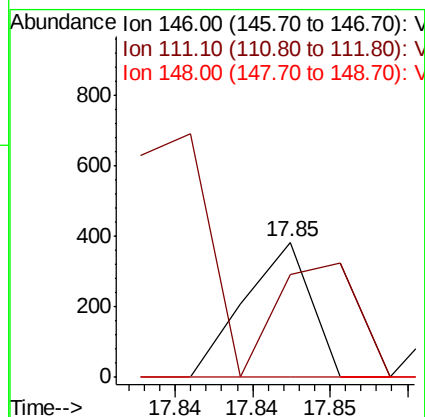
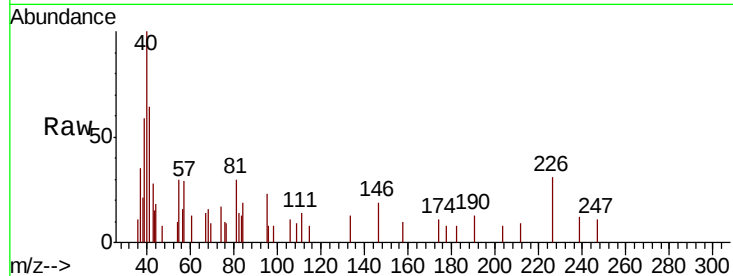
#77
 1,2-Dichlorobenzene
 Concen: 0.001 ppbv
 RT: 17.85 min Scan# 4684
 Delta R.T. 0.04 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1REDUP

Tot Ion	Ratio	Lower	Upper
146	100		
111	327.2	23.8	71.5#
148	0.0	32.5	97.4#

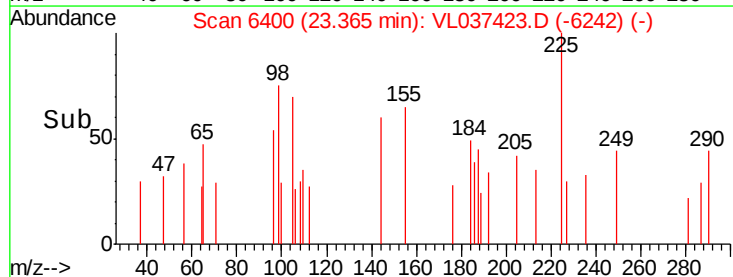
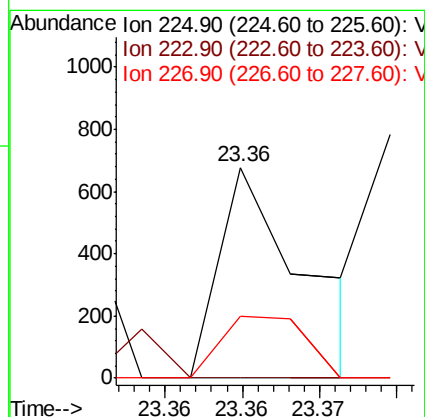
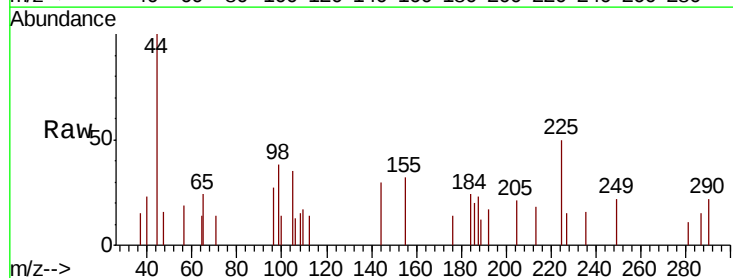
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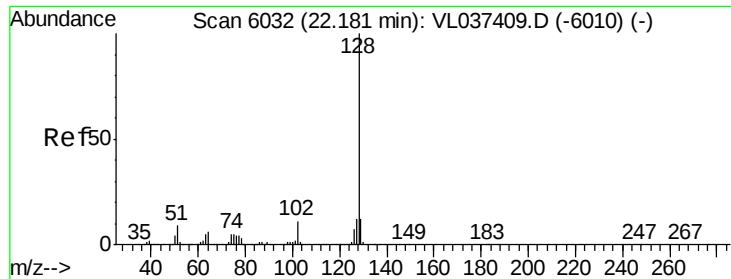
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.001 ppbv
 RT: 23.36 min Scan# 6400
 Delta R.T. 0.01 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

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





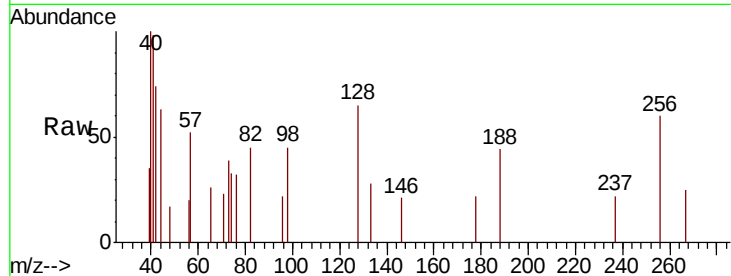
#79
Naphthalene
Concen: 0.001 ppbv
RT: 22.18 min Scan# 6031
Delta R.T. -0.00 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Instrument :
MSVOA_L
ClientSampleId :
OA1REDUP

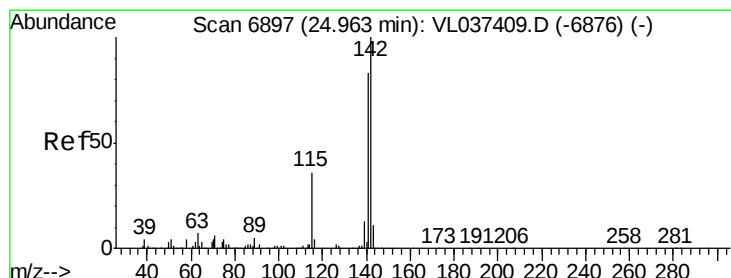
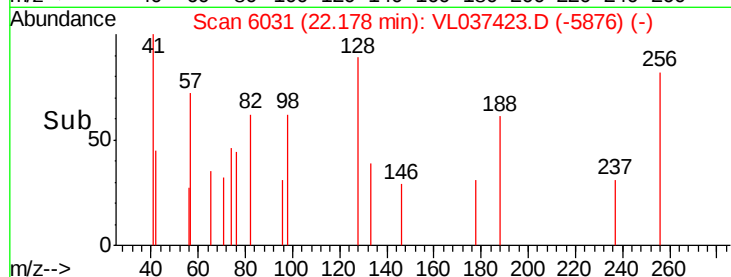
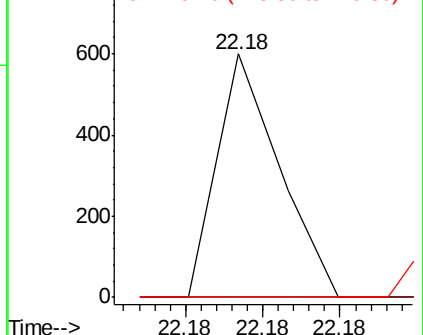
Tot Ion	Ratio	Resp	Lower	Upper
128	100	166		
127	0.0	9.9	14.9#	
129	0.0	9.4	14.0#	

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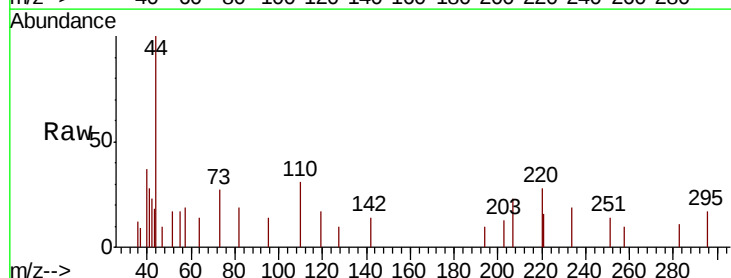


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

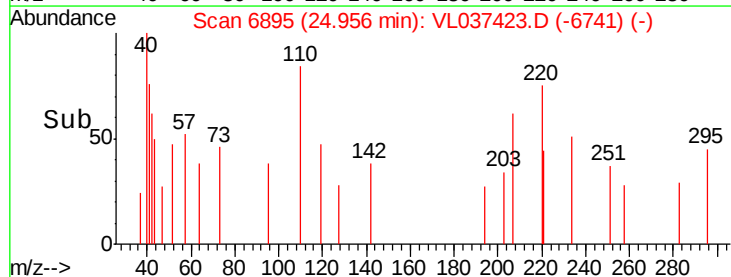
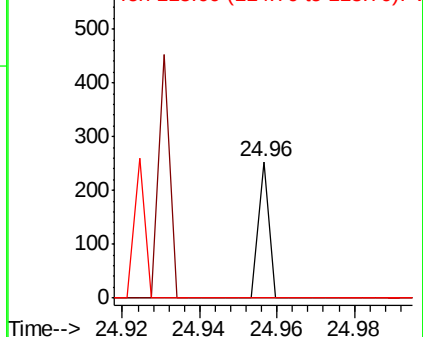


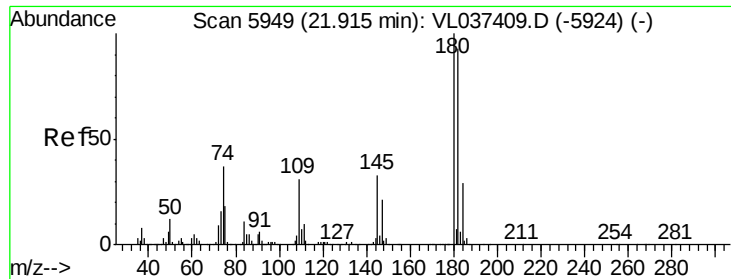
#80
Naphthalene, 2-methyl-
Concen: 0.001 ppbv
RT: 24.96 min Scan# 6895
Delta R.T. -0.01 min
Lab File: VL037423.D
Acq: 12 Aug 2021 21:25

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	49		
141	563.3	68.7	103.1#	
115	477.6	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: 0.000 ppbv
 RT: 21.91 min Scan# 5949
 Delta R.T. 0.00 min
 Lab File: VL037423.D
 Acq: 12 Aug 2021 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1REDUP

Tot Ion:	180	Resp:	62
Ion Ratio	Lower	Upper	
180	100		
182	0.0	78.6	118.0#
184	137.1	24.6	36.8#

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