

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037823.D
 Acq On : 8 Oct 2021 9:05
 Operator : SY/AP
 Sample : M4012-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P23

Manual Integrations
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Quant Time: Oct 09 18:20:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1334369	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3803209	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3355359	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2456790	10.47	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	88347	0.415	ppbv	99
3) Chlorodifluoromethane	2.98	51	57687m	0.225	ppbv	
4) Chloromethane	3.13	50	52579	0.560	ppbv	93
6) Bromomethane	3.47	94	6311m	0.136	ppbv	
9) Propene	3.02	41	289888	3.073	ppbv #	64
10) Heptane	8.11	43	119125m	0.556	ppbv	
11) Trichlorofluoromethane	3.94	101	39036m	0.205	ppbv	
13) Ethanol	3.63	45	32576759	4222.522	ppbv	94
15) Acetone	3.83	43	17791481	148.527	ppbv	90
17) tert-Butyl alcohol	4.31	59	228381m	1.851	ppbv	
19) Isopropyl Alcohol	3.99	45	10954826	147.001	ppbv #	1
20) Methylene Chloride	4.33	84	1489531	24.611	ppbv	97
26) Hexane	5.67	57	858820	5.189	ppbv #	58
29) Chloroform	5.74	83	212201	0.897	ppbv	88
30) Cyclohexane	7.12	84	47854	0.341	ppbv	92
34) 2-Butanone	5.23	43	286930	1.869	ppbv	91
35) Carbon Tetrachloride	7.00	117	14833m	0.069	ppbv	
36) Benzene	6.87	78	66850	0.206	ppbv #	91
37) 1,2-Dichloroethane	6.29	62	97879	0.640	ppbv #	93
44) 2,2,4-Trimethylpentane	7.85	57	189353m	0.347	ppbv	
52) Tetrachloroethene	11.21	164	26365m	0.209	ppbv	
53) Toluene	9.79	91	1096806	3.047	ppbv	98
58) Ethyl Benzene	12.69	91	400014	0.888	ppbv	95
59) m/p-Xylene	12.95	91	945577	2.445	ppbv	98
60) o-Xylene	13.67	91	372145	1.004	ppbv	99
61) Styrene	13.51	104	129796m	0.724	ppbv	
69) p-Isopropyltoluene	17.63	119	92966m	0.185	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	62436m	0.163	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	218951	0.545	ppbv #	67
79) Naphthalene	22.17	128	122230m	0.497	ppbv	
80) Naphthalene,2-methyl-	24.95	142	62555	0.948	ppbv #	77

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

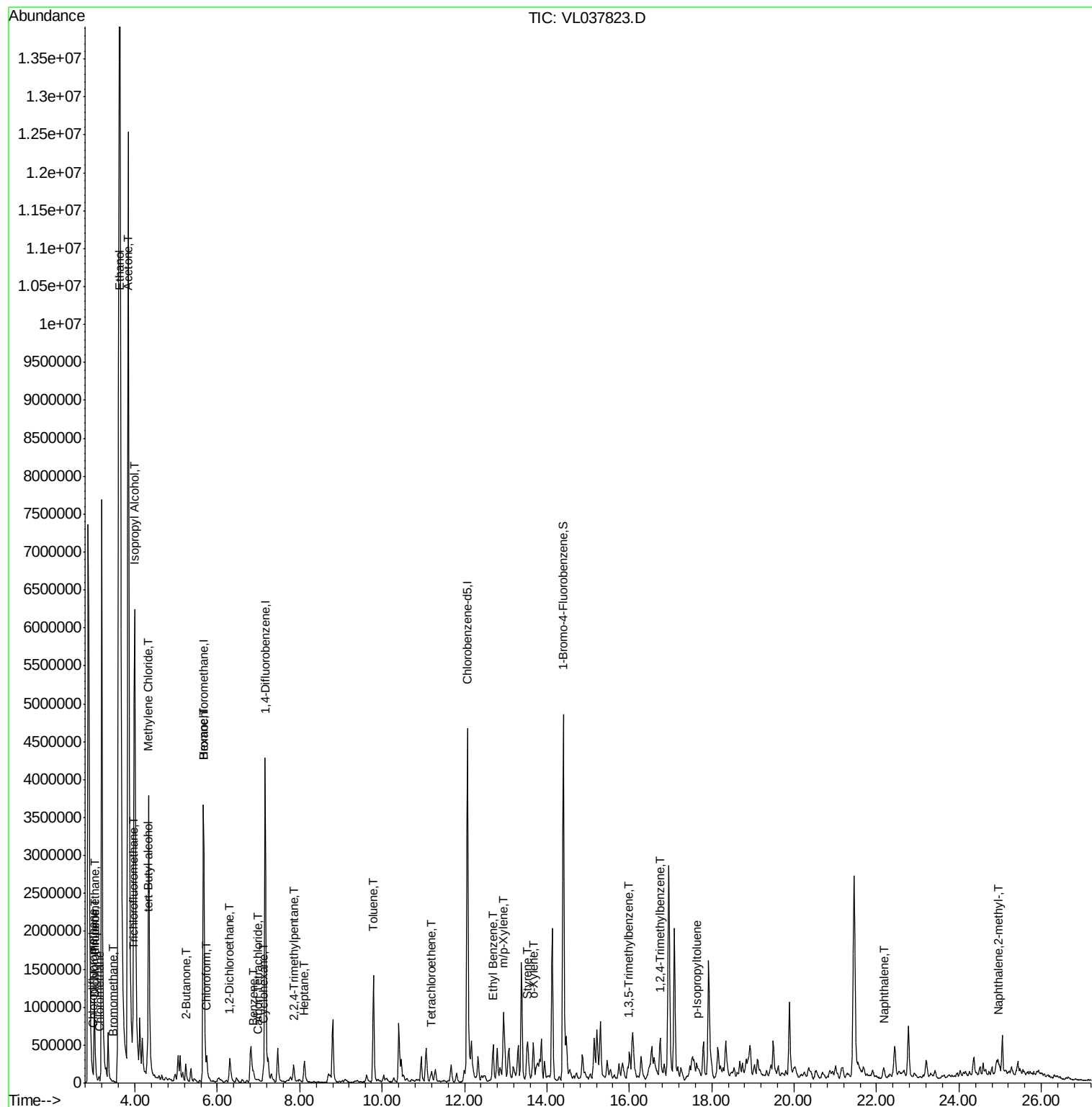
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
Data File : VL037823.D
Acq On : 8 Oct 2021 9:05
Operator : SY/AP
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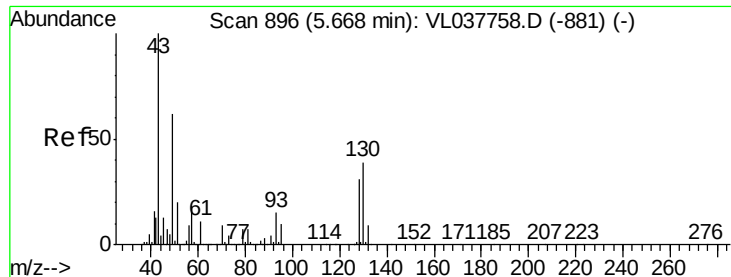
Instrument :
MSVOA_L
ClientSampleId :
C0P23

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Quant Time: Oct 09 18:20:22 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

ClientSampled :

C0P23

Tgt Ion: 49 Resp: 1334369

Ion Ratio Lower Upper

49 100

128 51.7 27.1 81.3

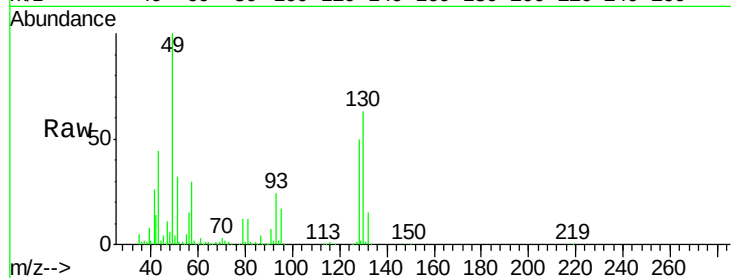
130 65.9 33.2 99.6

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

800000

600000

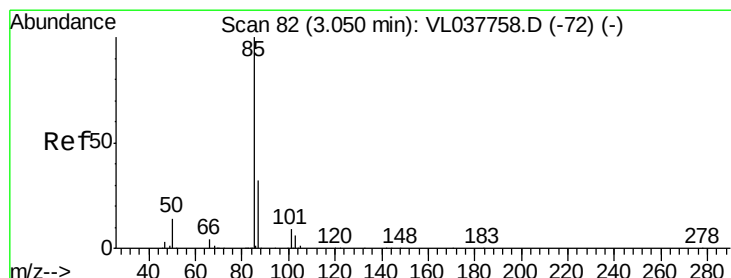
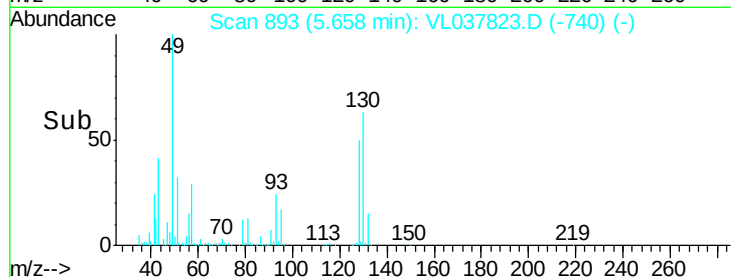
400000

200000

0

5.55 5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.415 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037823.D

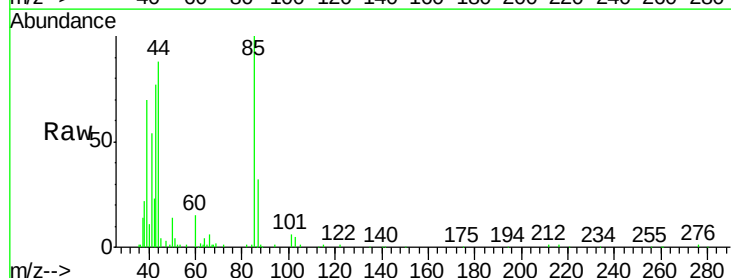
Acq: 8 Oct 2021 9:05

Tgt Ion: 85 Resp: 88347

Ion Ratio Lower Upper

85 100

87 31.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

60000

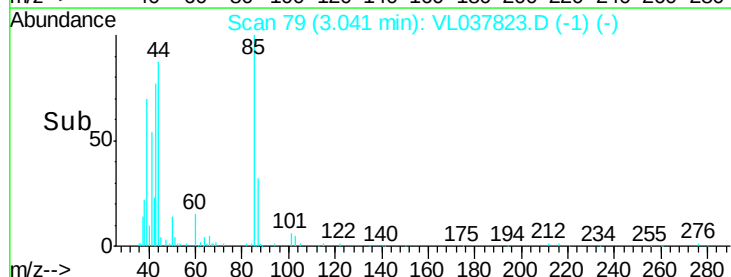
40000

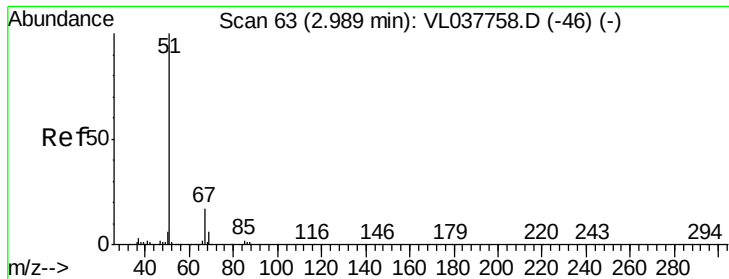
20000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.225 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

C0P23

Tgt Ion: 51 Resp: 57687

Ion Ratio Lower Upper

51 100

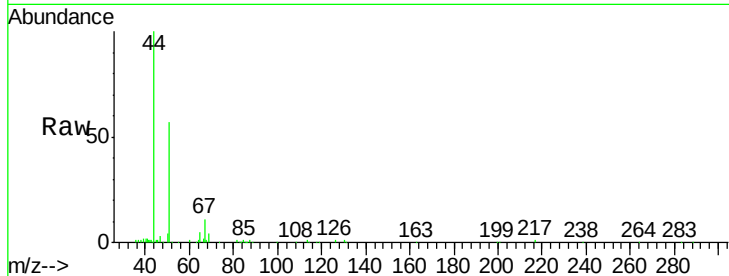
67 19.5 13.5 20.3

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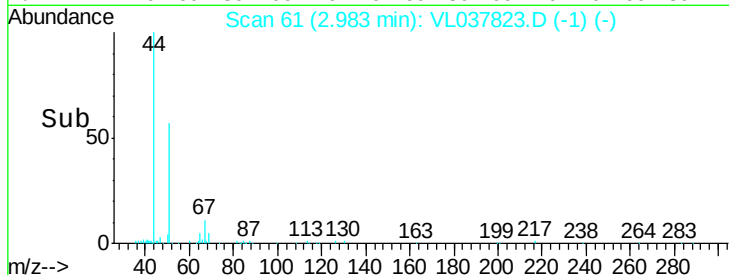
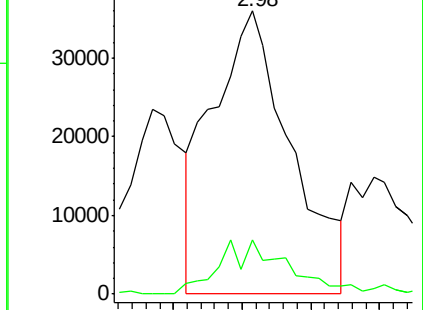
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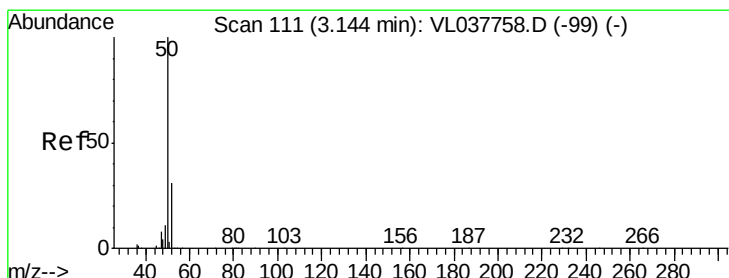


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.560 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037823.D

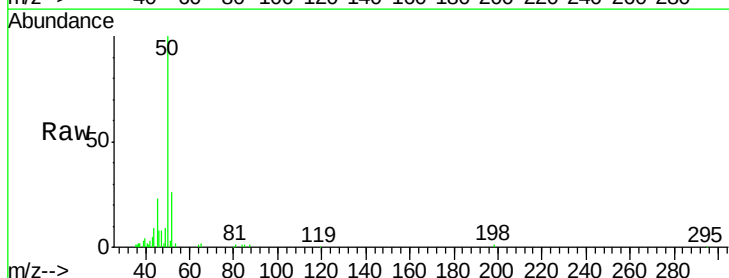
Acq: 8 Oct 2021 9:05

Tgt Ion: 50 Resp: 52579

Ion Ratio Lower Upper

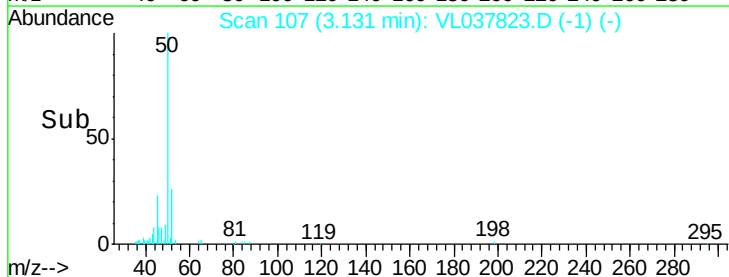
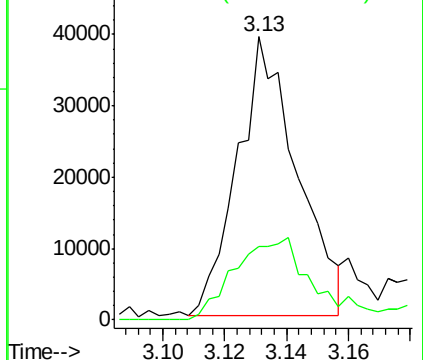
50 100

52 26.5 24.4 36.6

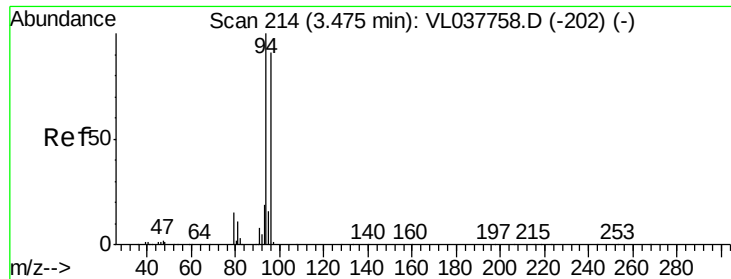


Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->



#6

Bromomethane

Concen: 0.136 ppbv m

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

C0P23

Tgt Ion: 94 Resp: 6311

Ion Ratio Lower Upper

94 100

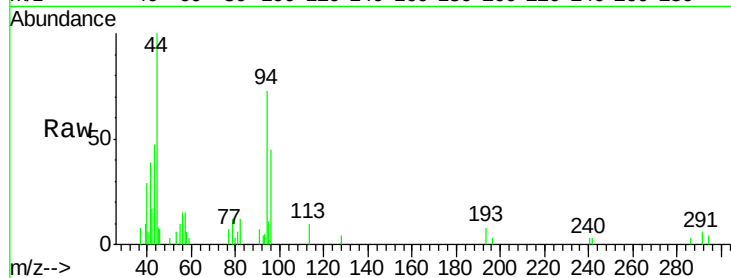
96 61.3 72.5 108.7#

Manual Integrations

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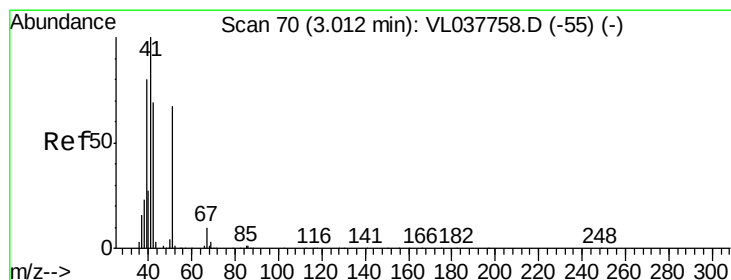
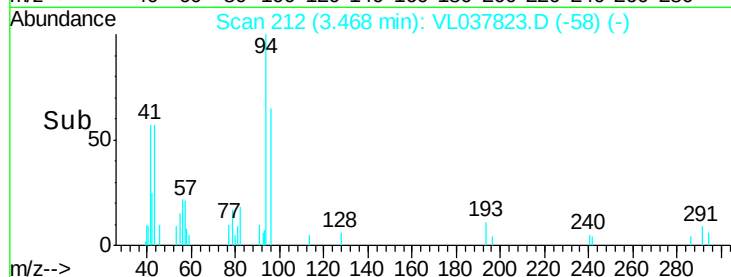
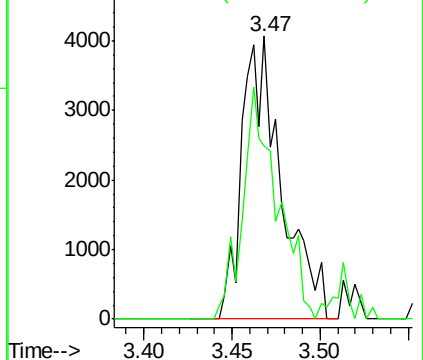
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Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#9

Propene

Concen: 3.073 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037823.D

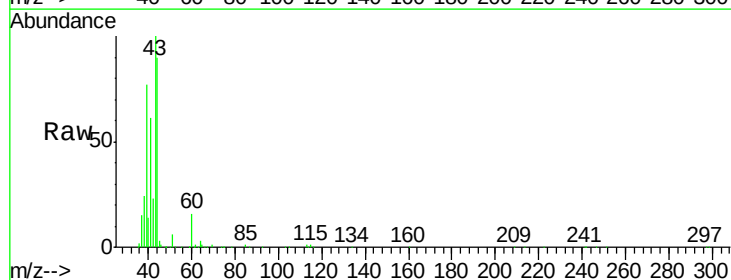
Acq: 8 Oct 2021 9:05

Tgt Ion: 41 Resp: 289888

Ion Ratio Lower Upper

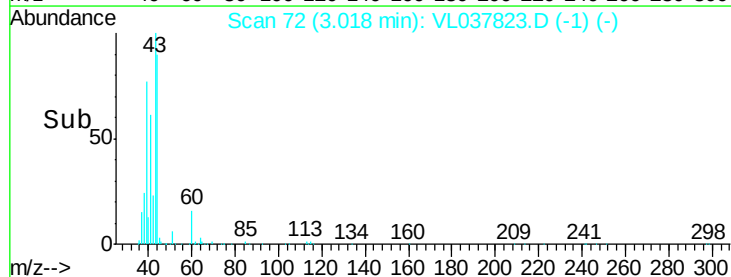
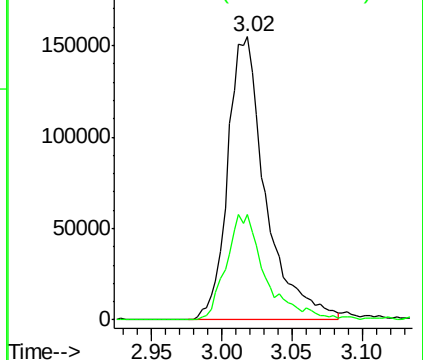
41 100

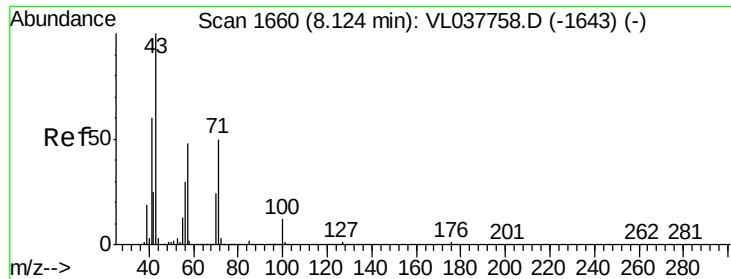
42 39.0 54.2 81.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





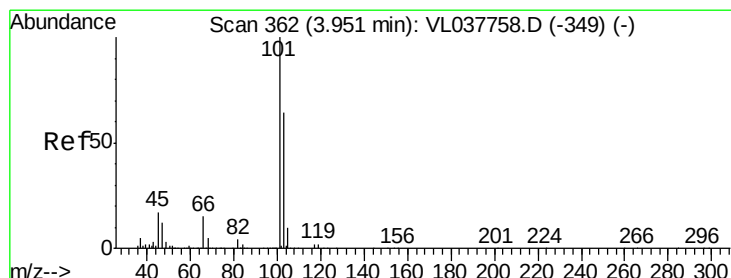
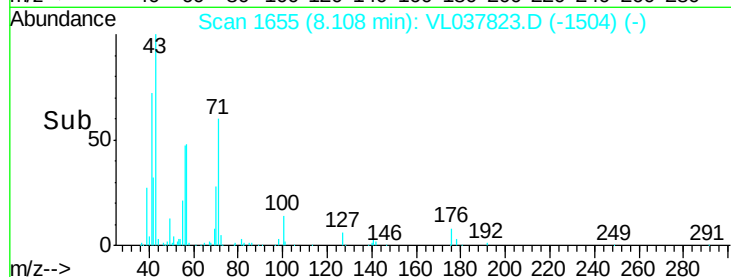
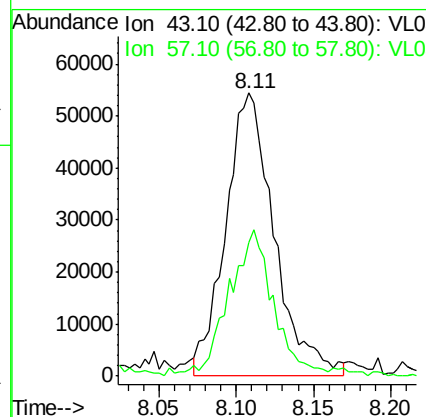
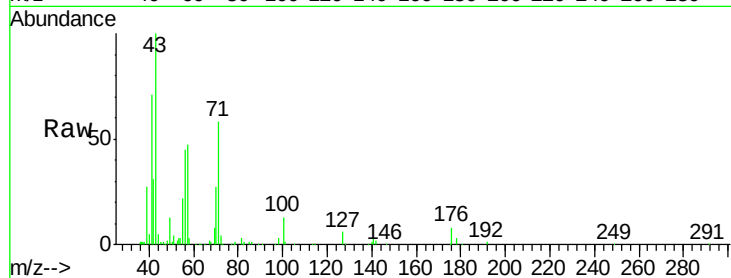
#10
 Heptane
 Concen: 0.556 ppbv m
 RT: 8.11 min Scan# 1655
 Delta R.T. -0.02 min
 Lab File: VL037823.D
 Acq: 8 Oct 2021 9:05

Instrument :
 MSVOA_L
 ClientSampled :
 C0P23

Tgt Ion: 43 Resp: 119125
 Ion Ratio Lower Upper
 43 100
 57 49.4 40.0 60.0

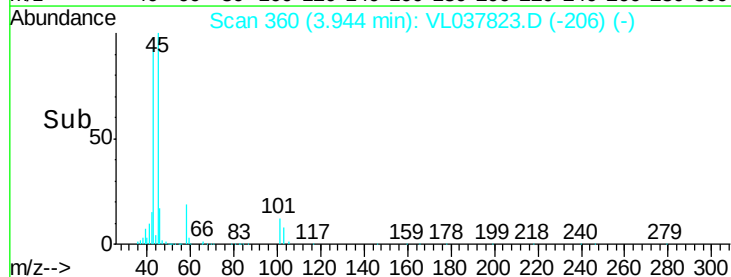
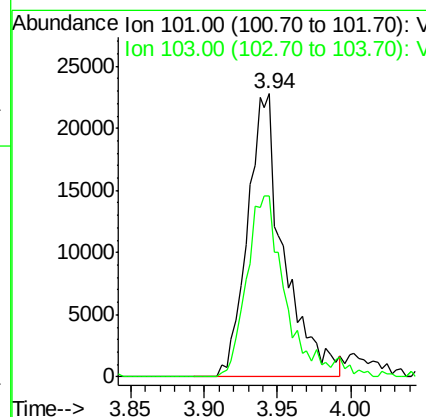
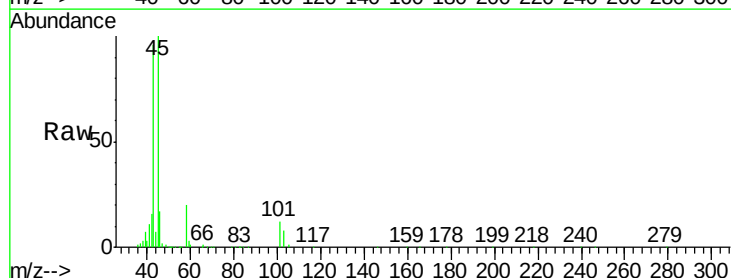
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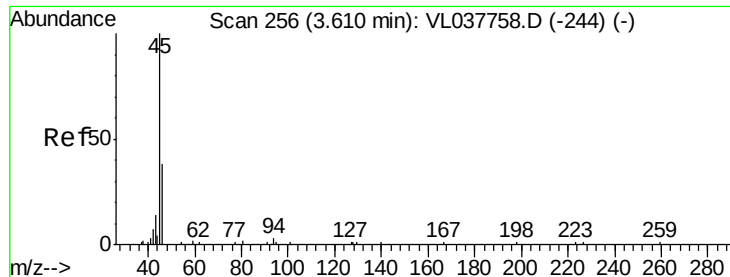
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#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv m
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL037823.D
 Acq: 8 Oct 2021 9:05

Tgt Ion: 101 Resp: 39036
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.5 77.3





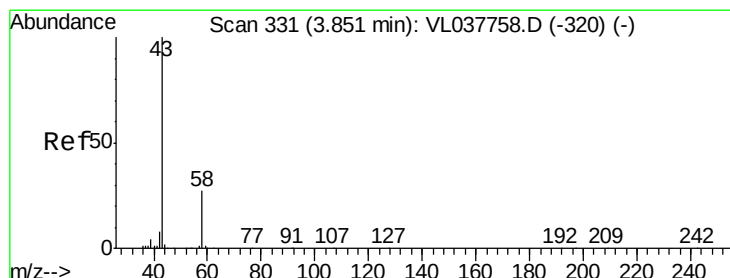
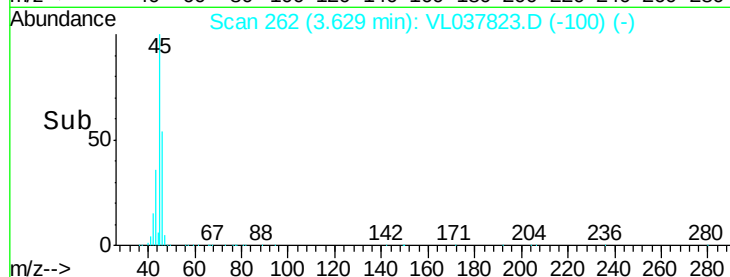
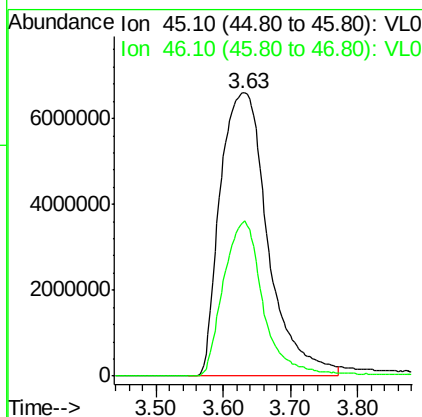
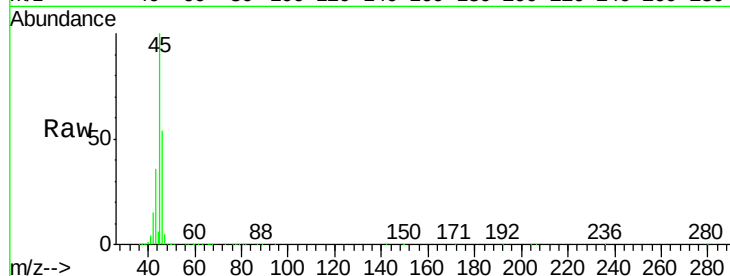
#13
Ethanol
Concen: 4222.522 ppbv
RT: 3.63 min Scan# 262
Delta R.T. 0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Instrument :
MSVOA_L
ClientSampled :
C0P23

Tgt Ion: 45 Resp:32576759
Ion Ratio Lower Upper
45 100
46 46.6 20.2 81.0

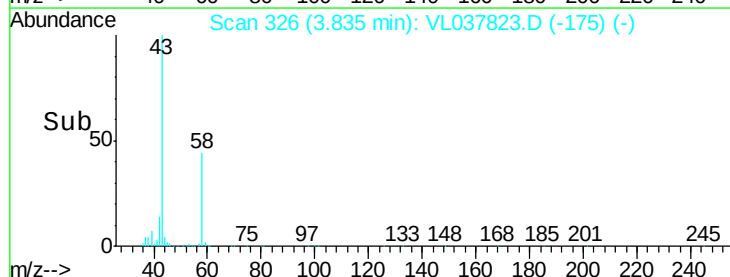
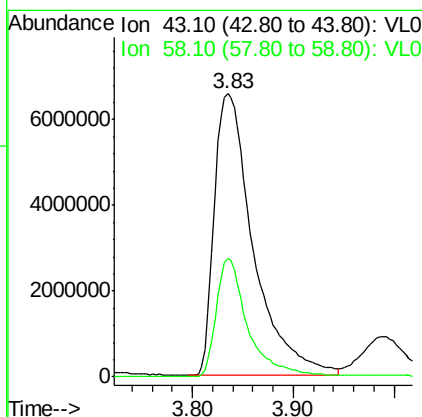
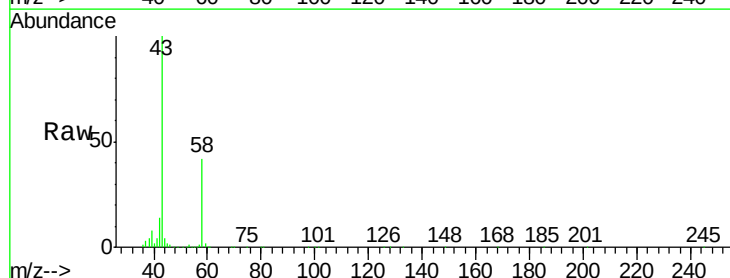
Manual Integrations
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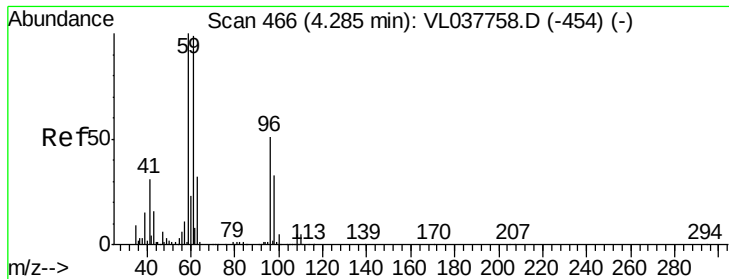
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#15
Acetone
Concen: 148.527 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Tgt Ion: 43 Resp:17791481
Ion Ratio Lower Upper
43 100
58 34.3 23.0 34.6





#17

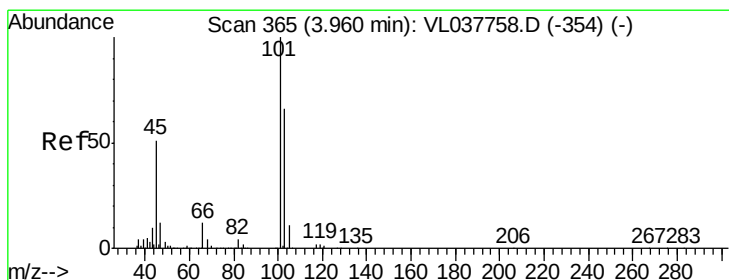
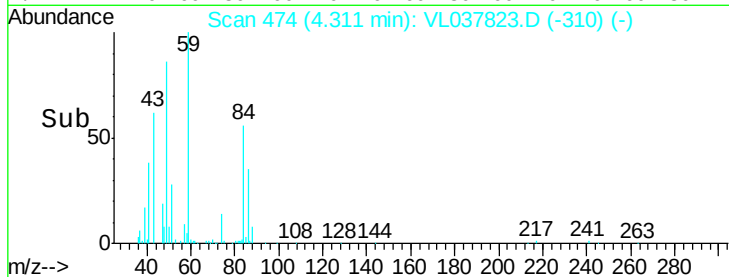
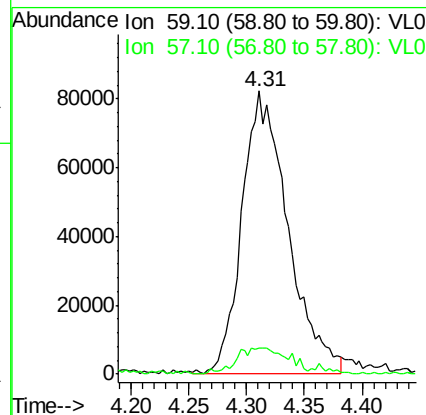
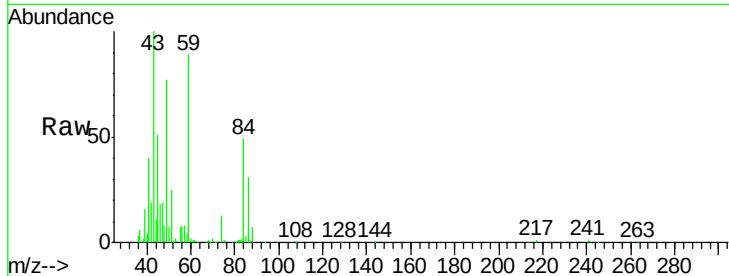
tert-Butyl alcohol
Concen: 1.851 ppbv m
RT: 4.31 min Scan# 474
Delta R.T. 0.03 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Instrument :
MSVOA_L
ClientSampleId :
C0P23

Tgt Ion	Ratio	Lower	Upper
59	100		
57	12.1	8.6	13.0

Manual Integrations
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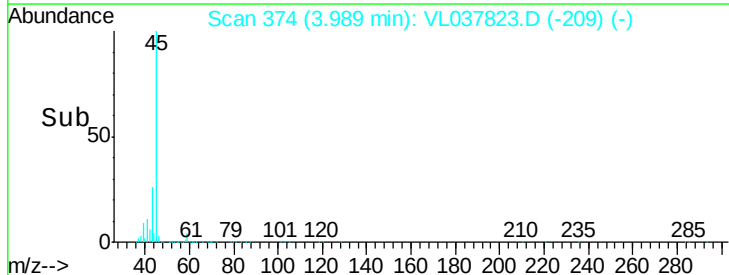
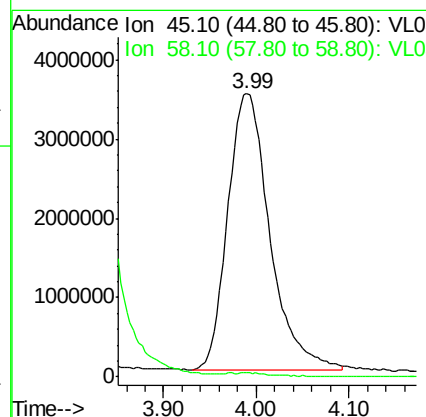
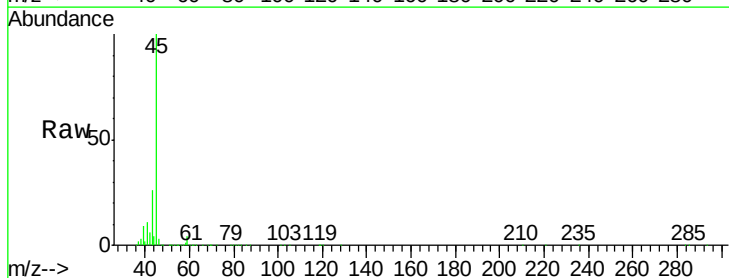
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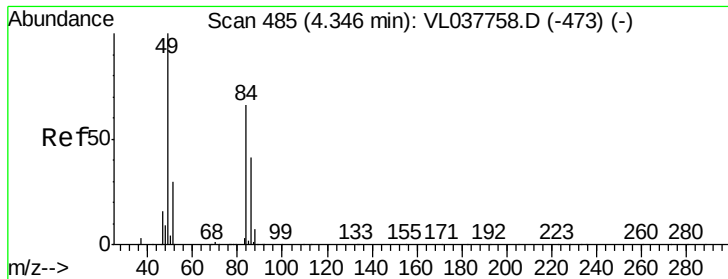


#19

Isopropyl Alcohol
Concen: 147.001 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.03 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Tgt Ion	Ratio	Lower	Upper
45	100		
58	55.8	1.1	1.7#





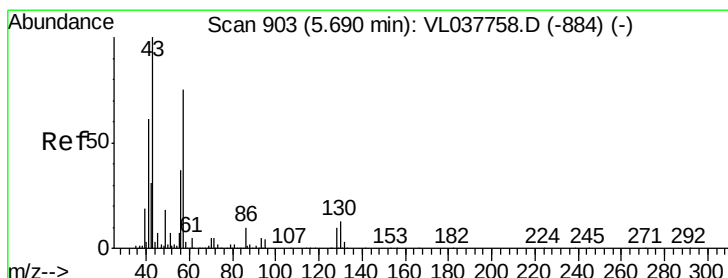
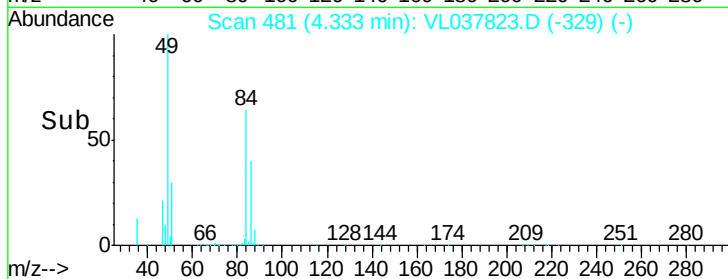
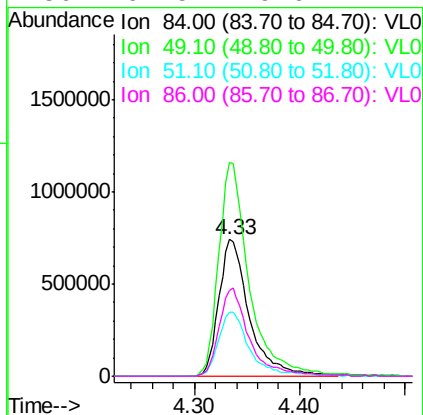
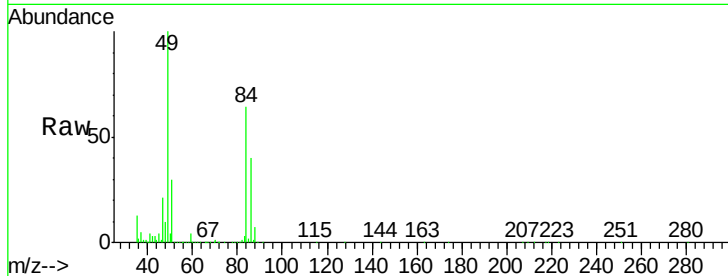
#20
Methylene Chloride
Concen: 24.611 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Instrument :
MSVOA_L
ClientSampled :
C0P23

Tgt Ion:	84	Resp:	1489531
Ion	Ratio	Lower	Upper
84	100		
49	155.9	120.7	181.1
51	46.7	36.2	54.4
86	62.5	49.6	74.4

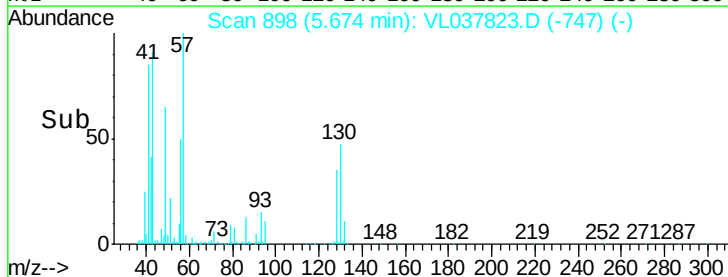
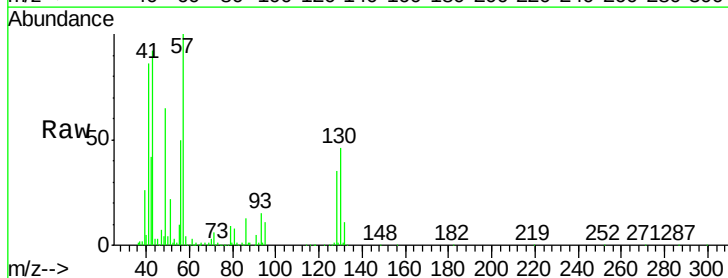
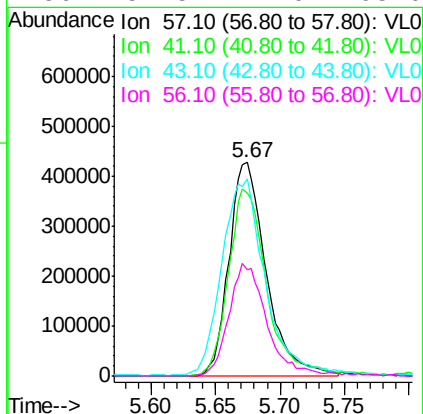
Manual Integrations
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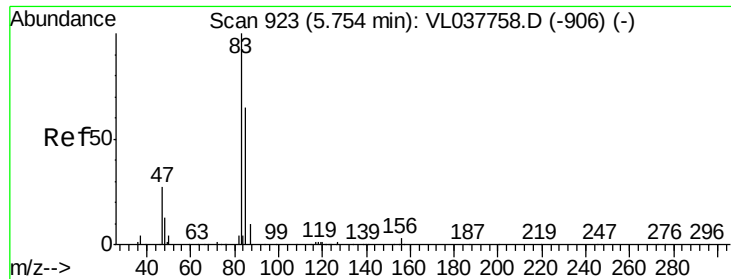
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#26
Hexane
Concen: 5.189 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Tgt Ion:	57	Resp:	858820
Ion	Ratio	Lower	Upper
57	100		
41	91.3	69.6	104.4
43	108.7	171.4	257.0#
56	54.5	42.0	63.0





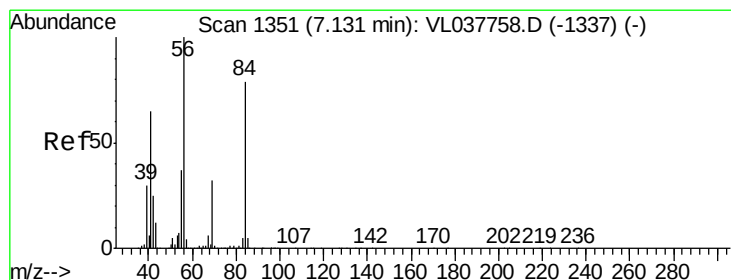
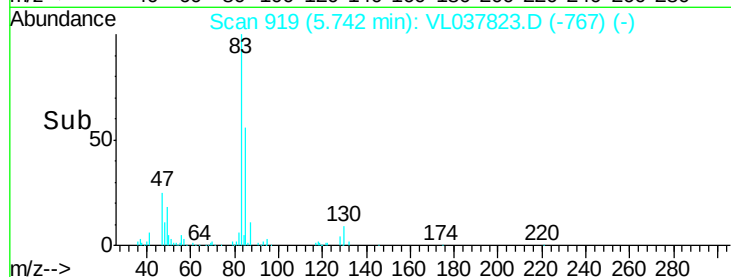
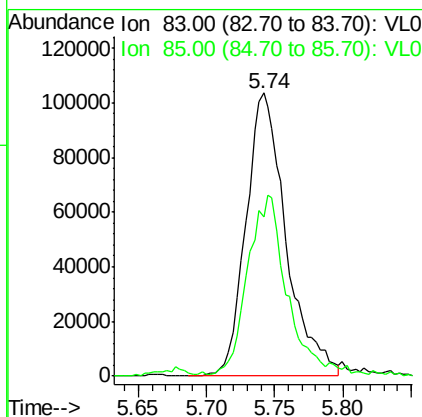
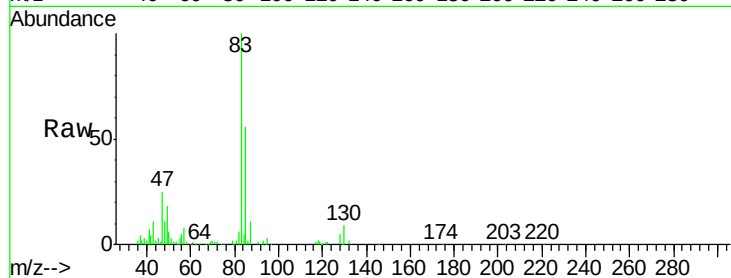
#29
Chloroform
Concen: 0.897 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Instrument :
MSVOA_L
ClientSampled :
C0P23

Tgt Ion: 83 Resp: 212201
Ion Ratio Lower Upper
83 100
85 55.1 51.8 77.8

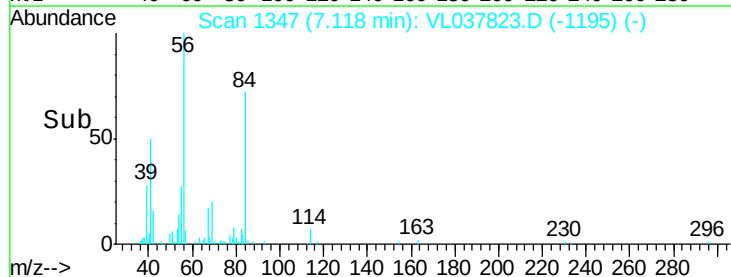
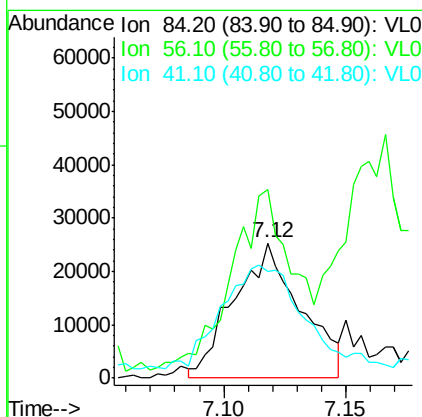
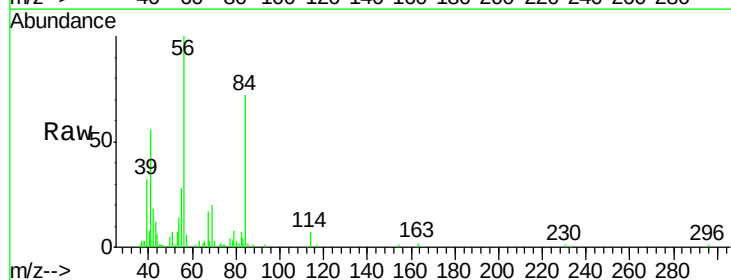
Manual Integrations
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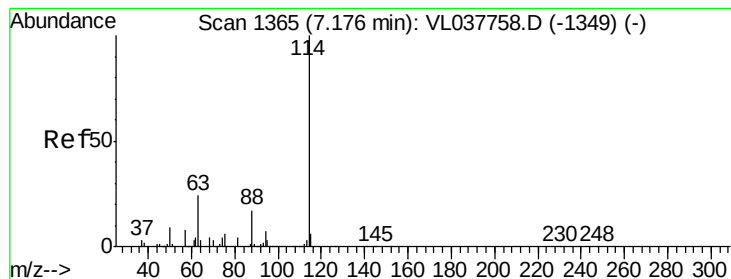
apatel
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#30
Cyclohexane
Concen: 0.341 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Tgt Ion: 84 Resp: 47854
Ion Ratio Lower Upper
84 100
56 136.5 113.0 169.4
41 101.2 69.1 103.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

C0P23

Tgt Ion: 114 Resp: 3803209

Ion Ratio Lower Upper

114 100

63 23.9 19.4 29.2

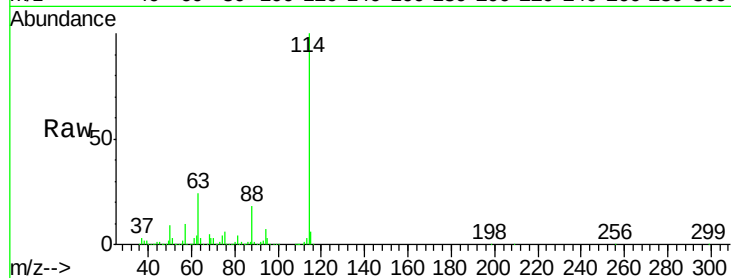
88 17.8 14.4 21.6

Manual Integrations

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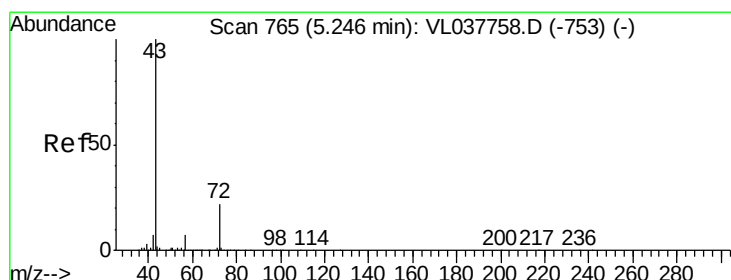
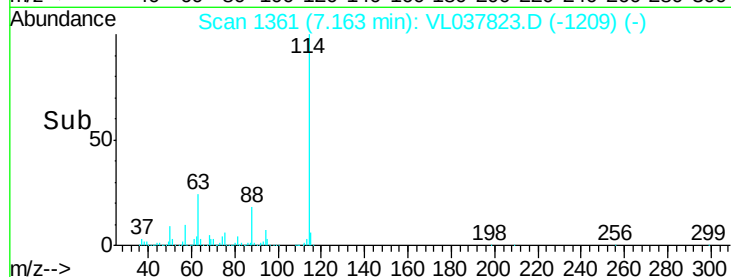
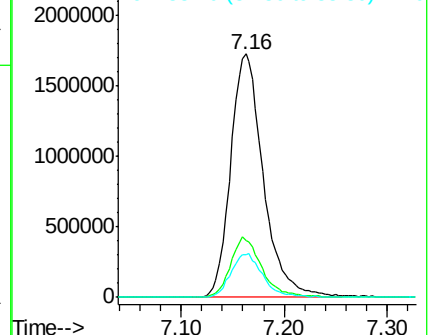
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.869 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.02 min

Lab File: VL037823.D

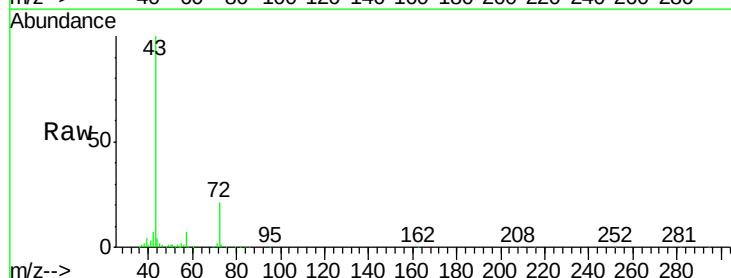
Acq: 8 Oct 2021 9:05

Tgt Ion: 43 Resp: 286930

Ion Ratio Lower Upper

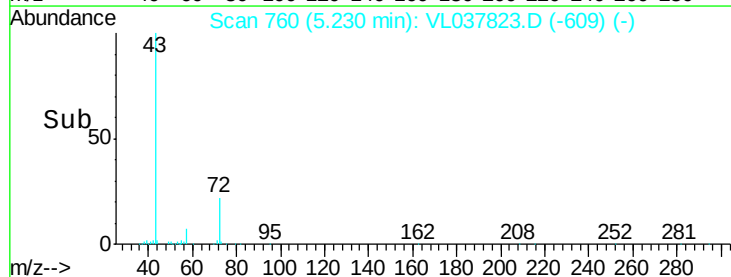
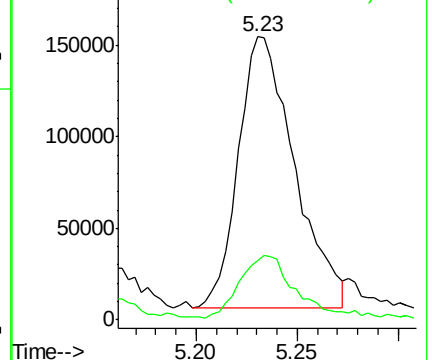
43 100

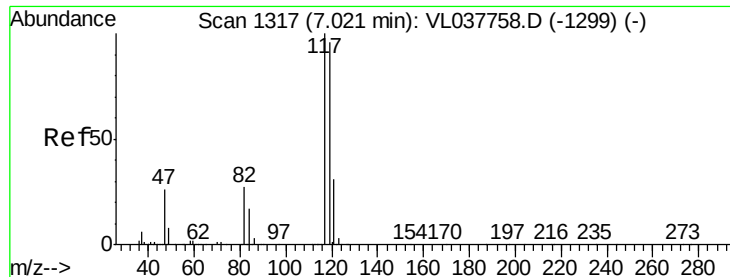
72 26.9 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.069 ppbv m

RT: 7.00 min Scan# 1310

Delta R.T. -0.02 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

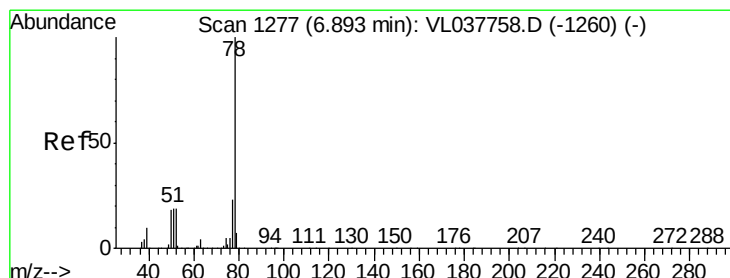
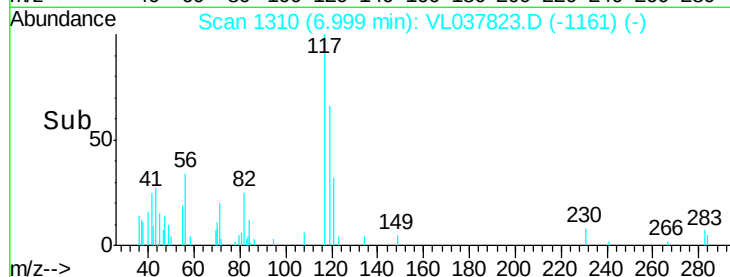
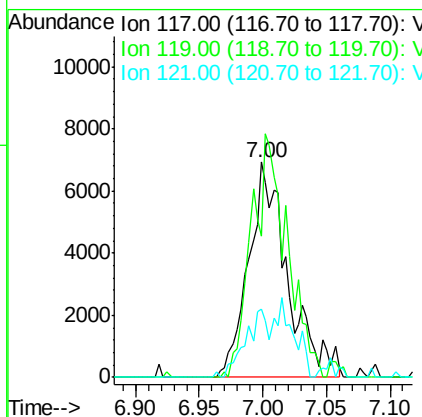
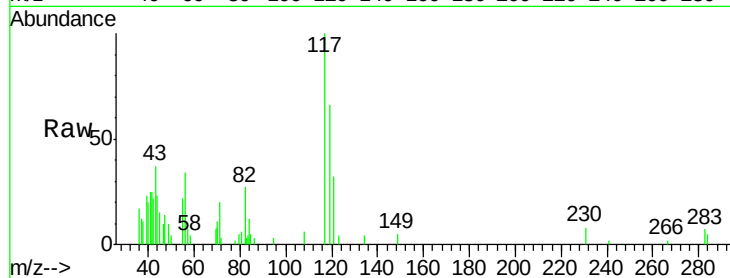
ClientSampled :

C0P23

Tgt Ion:	117	Resp:	14833
Ion Ratio	Lower	Upper	
117	100		
119	65.6	76.5	114.7#
121	31.8	24.9	37.3

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#36

Benzene

Concen: 0.206 ppbv

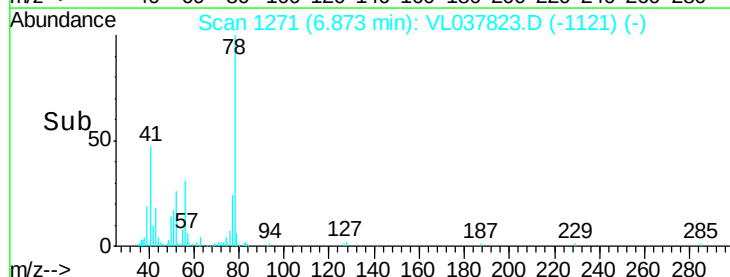
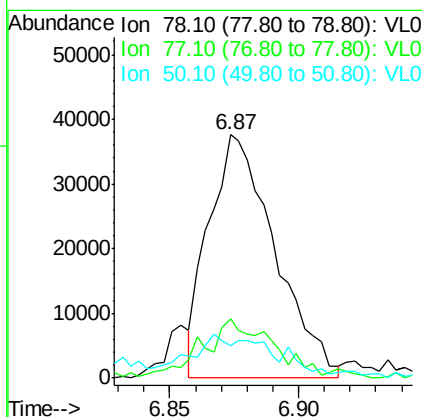
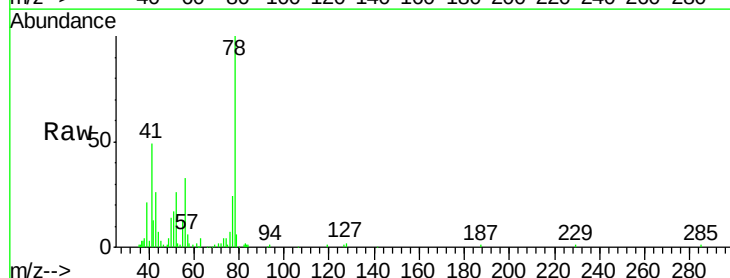
RT: 6.87 min Scan# 1271

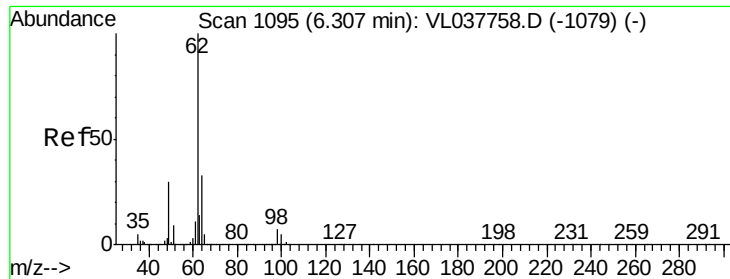
Delta R.T. -0.02 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Tgt Ion:	78	Resp:	66850
Ion Ratio	Lower	Upper	
78	100		
77	21.4	18.8	28.2
50	11.9	14.7	22.1#





#37

1,2-Dichloroethane

Concen: 0.640 ppbv

RT: 6.29 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

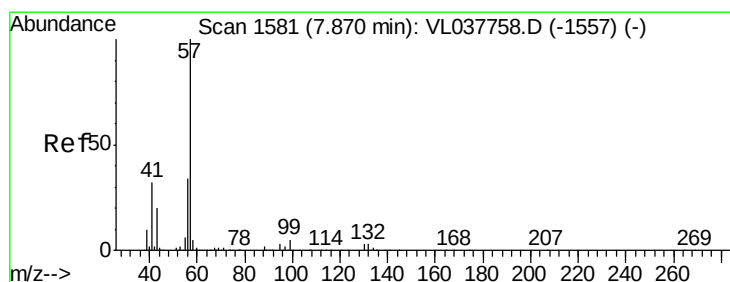
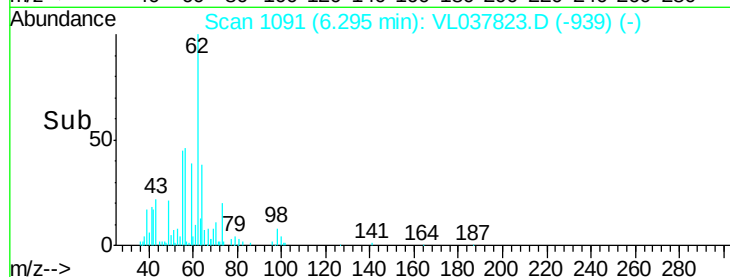
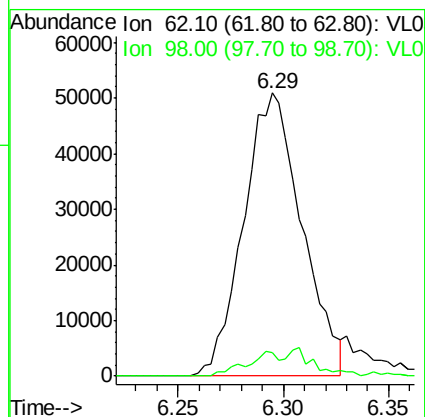
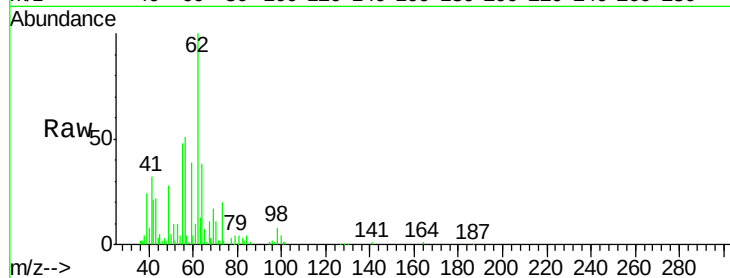
ClientSampled :

C0P23

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	97879		
98	9.9	6.1	9.1#	

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#44

2,2,4-Trimethylpentane

Concen: 0.347 ppbv m

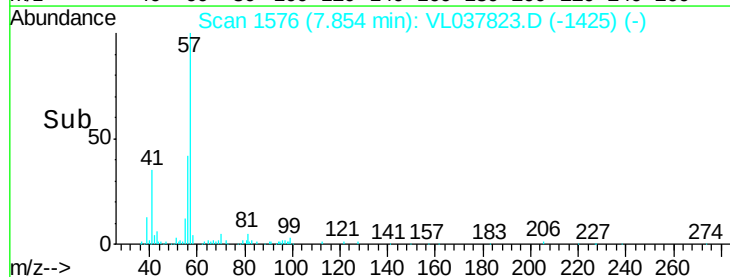
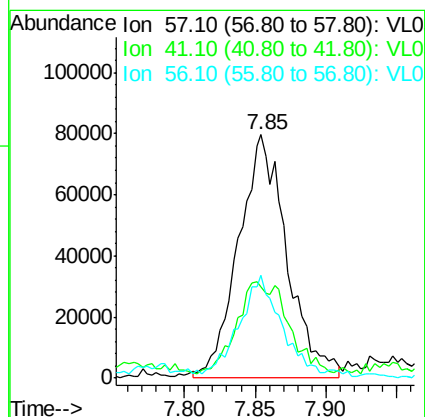
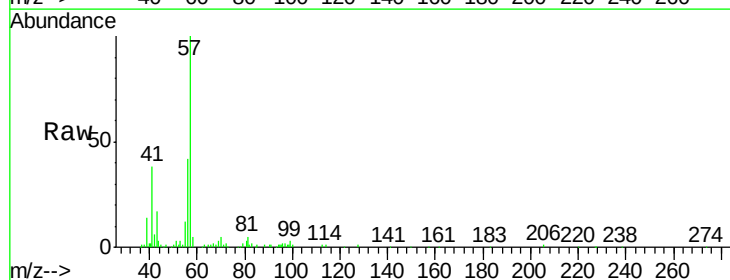
RT: 7.85 min Scan# 1576

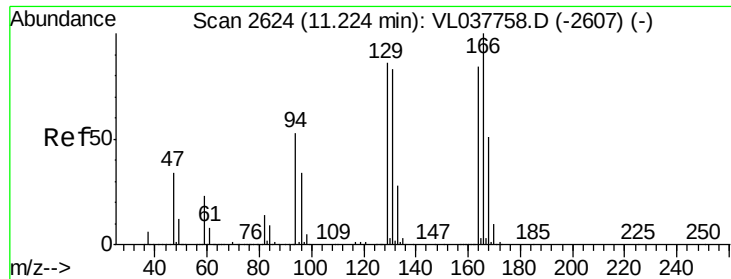
Delta R.T. -0.02 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	189353		
41	40.9	25.6	38.4#	
56	38.9	25.5	38.3#	





#52

Tetrachloroethene

Concen: 0.209 ppbv m

RT: 11.21 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL037823.D

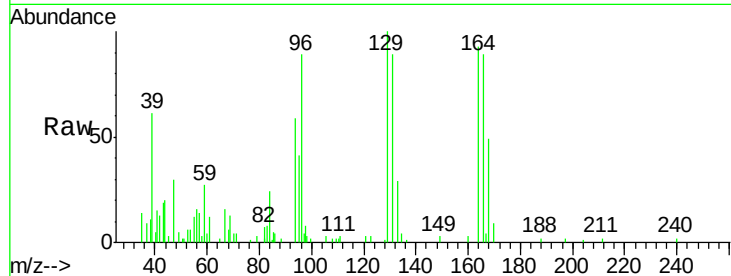
Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

ClientSampleId :

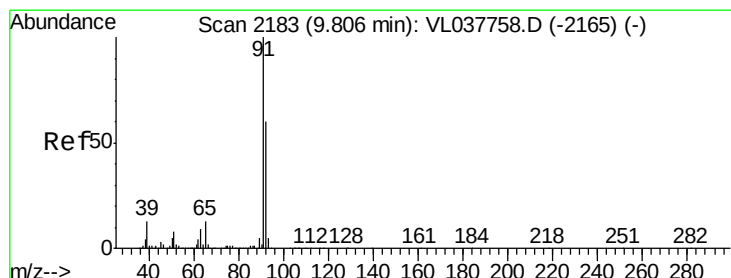
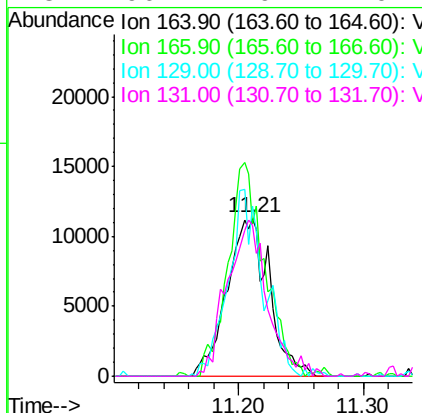
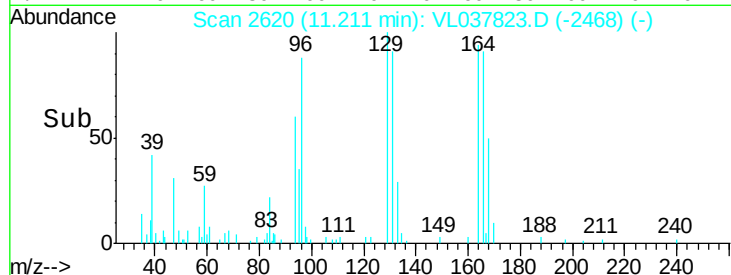
C0P23



Tgt Ion	Ratio	Resp	Lower	Upper
164	100	26365		
166	96.6	95.4	143.2	
129	108.0	82.2	123.4	
131	96.2	79.4	119.2	

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#53

Toluene

Concen: 3.047 ppbv

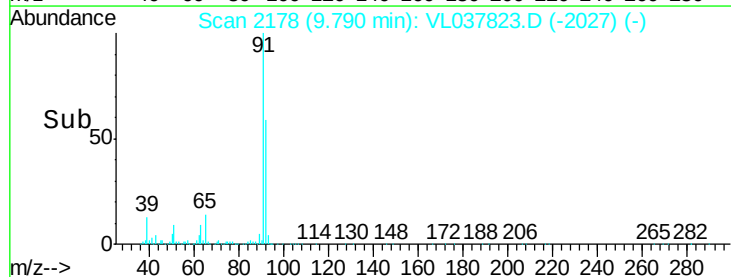
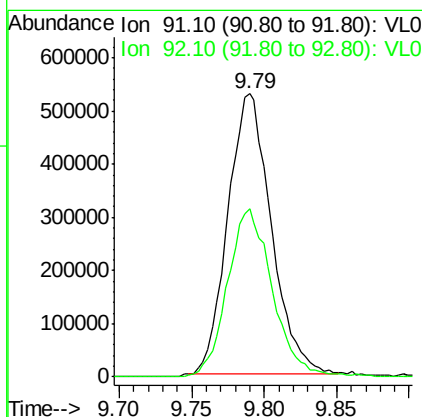
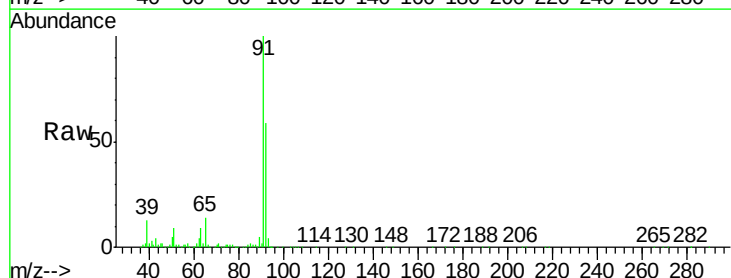
RT: 9.79 min Scan# 2178

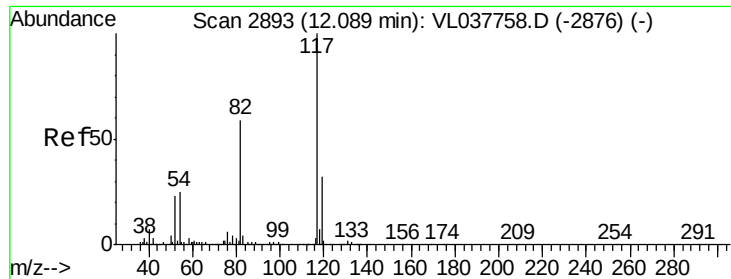
Delta R.T. -0.02 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1096806		
92	62.3	48.4	72.6	





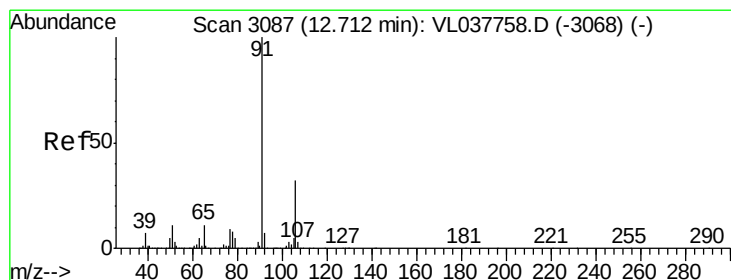
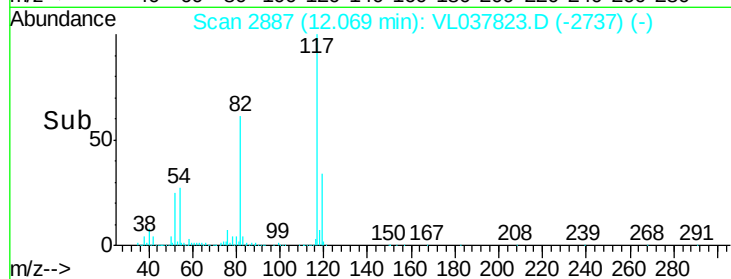
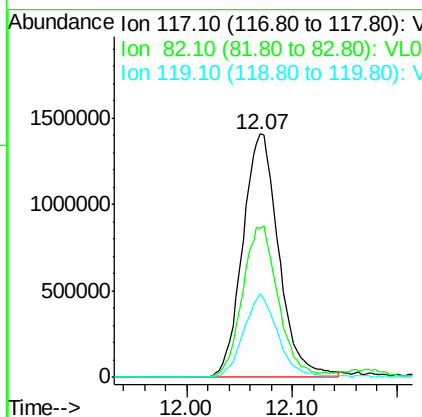
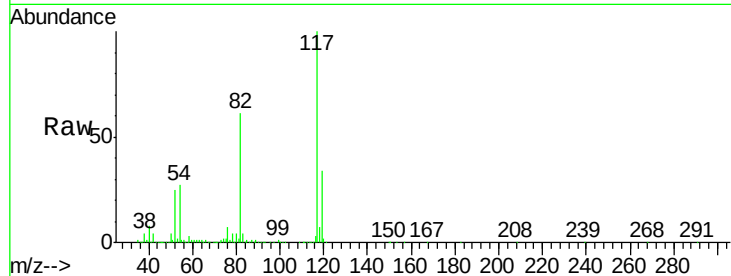
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. -0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Instrument :
MSVOA_L
ClientSampled :
C0P23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.5	52.2	78.2
119	33.6	26.0	39.0

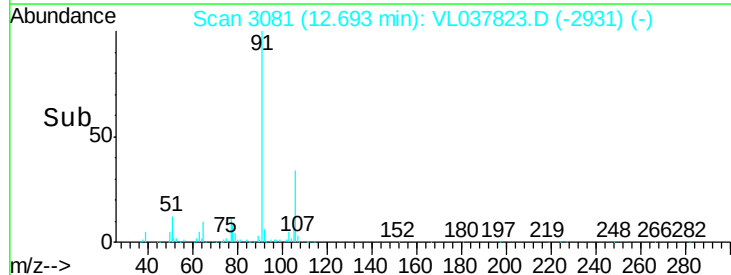
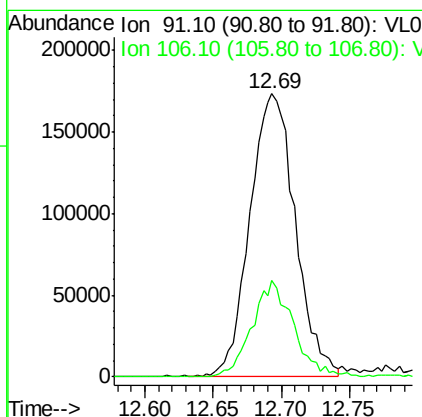
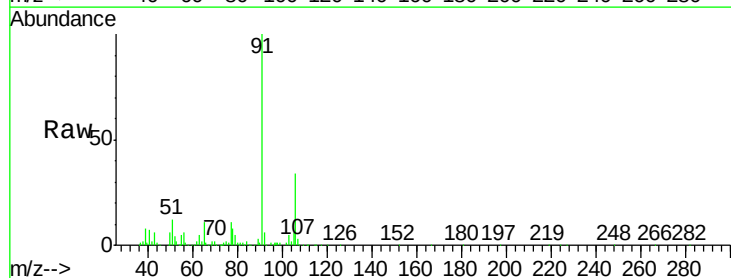
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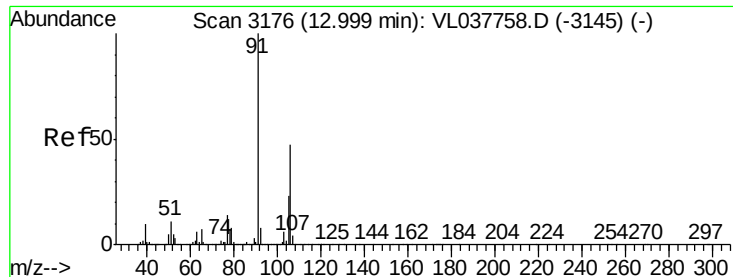
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#58
Ethyl Benzene
Concen: 0.888 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. -0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.1	25.3	37.9





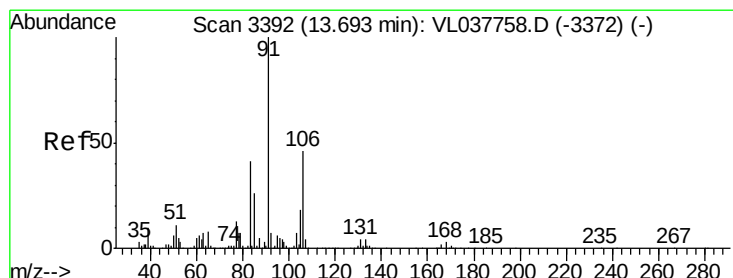
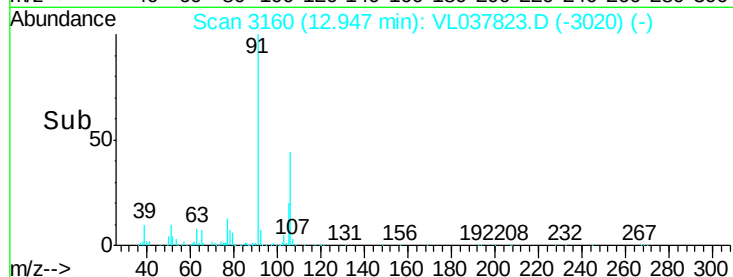
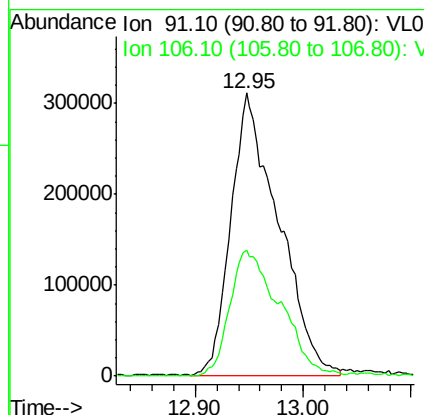
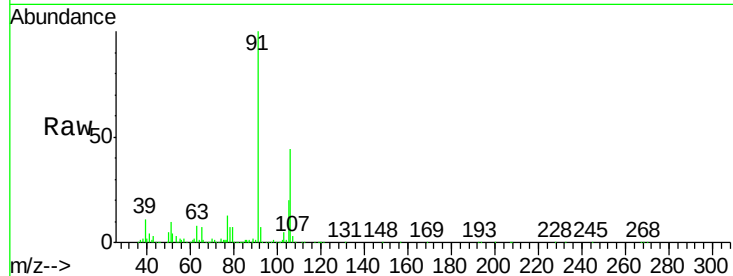
#59
m/p-Xylene
Concen: 2.445 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.05 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Instrument :
MSVOA_L
ClientSampled :
C0P23

Tgt Ion: 91 Resp: 945577
Ion Ratio Lower Upper
91 100
106 47.3 36.7 55.1

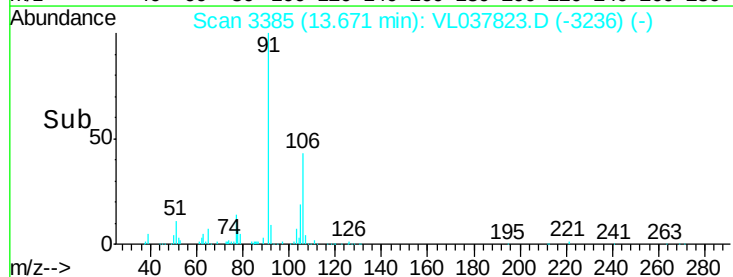
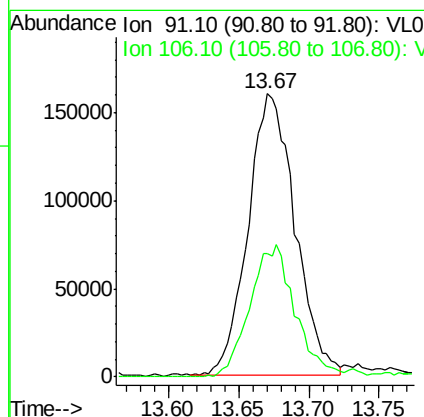
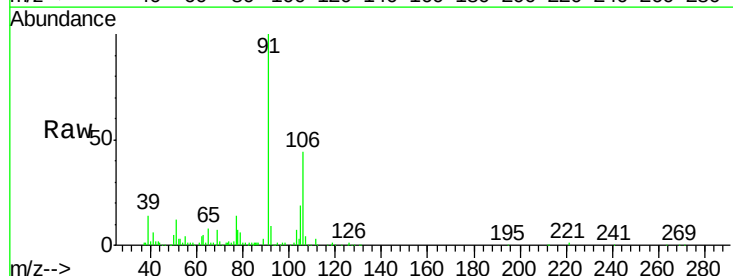
Manual Integrations
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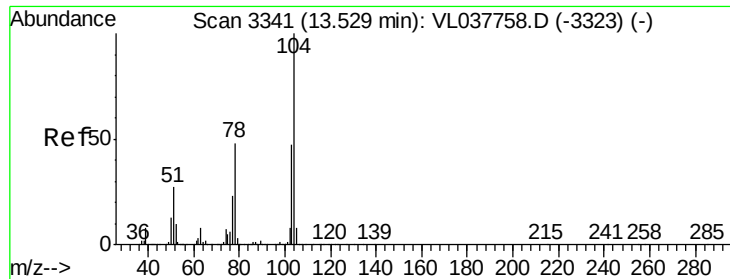
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#60
o-Xylene
Concen: 1.004 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Tgt Ion: 91 Resp: 372145
Ion Ratio Lower Upper
91 100
106 46.4 23.5 70.5





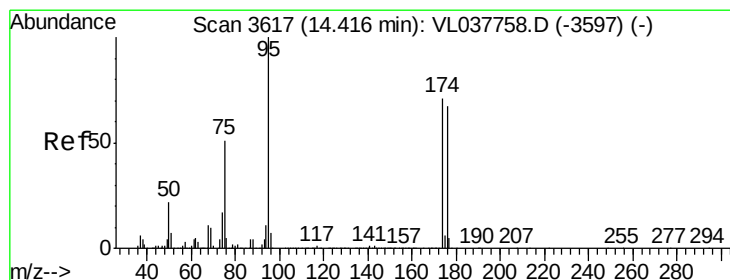
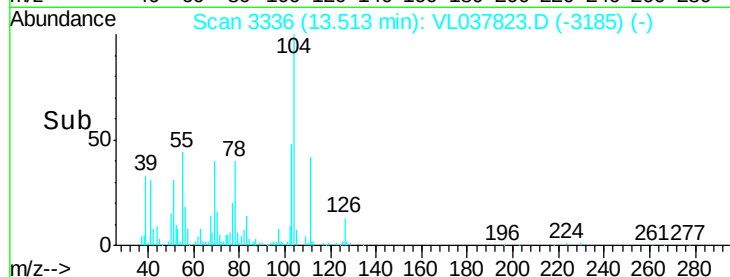
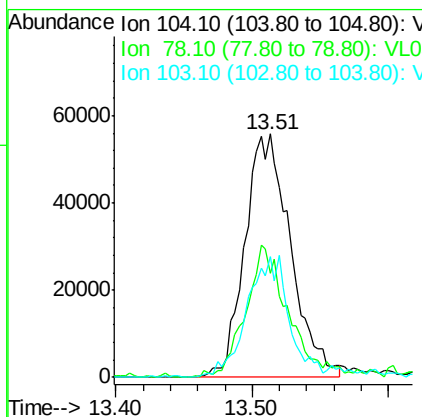
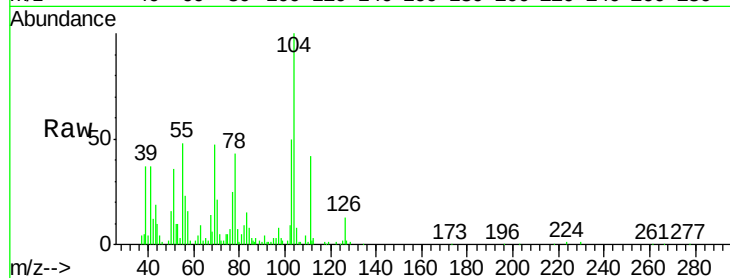
#61
Styrene
Concen: 0.724 ppbv m
RT: 13.51 min Scan# 3336
Delta R.T. -0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Instrument :
MSVOA_L
ClientSampled :
C0P23

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	129796		
78	52.0	40.6	61.0	
103	0.0	39.6	59.4#	

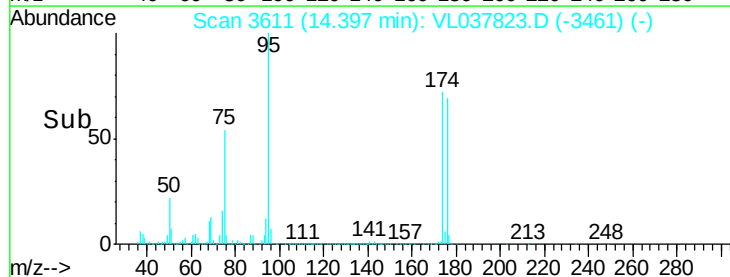
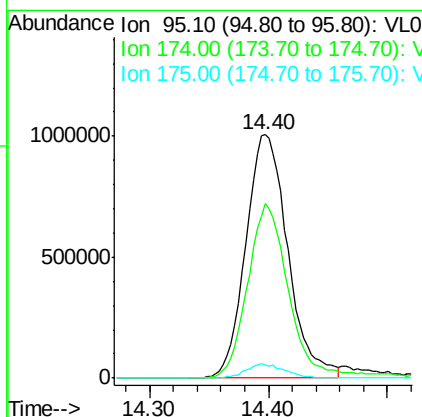
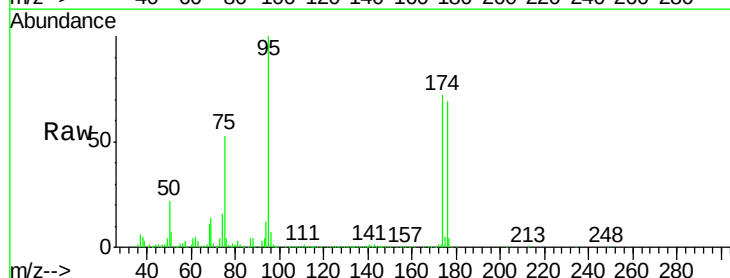
Manual Integrations
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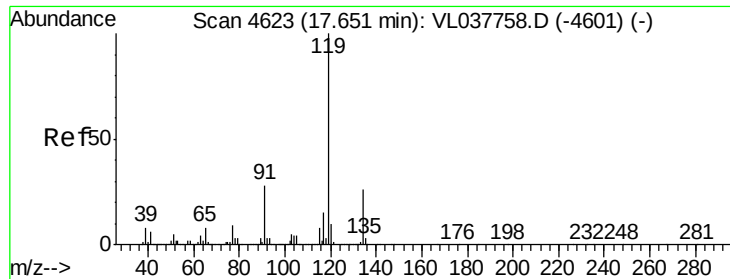
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.470 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.02 min
Lab File: VL037823.D
Acq: 8 Oct 2021 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	2456790		
174	71.8	57.8	86.6	
175	5.6	4.7	7.1	





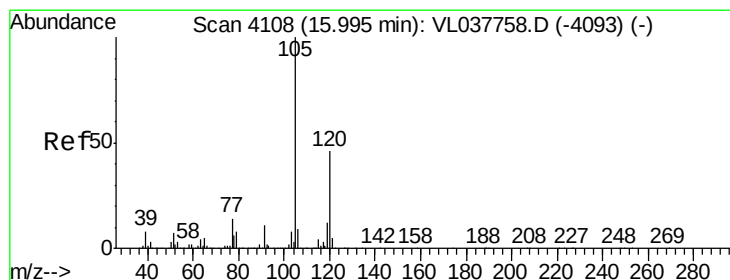
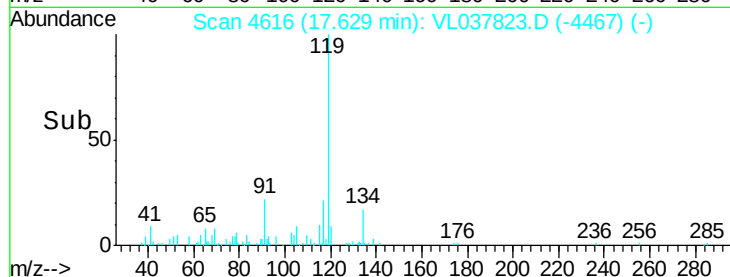
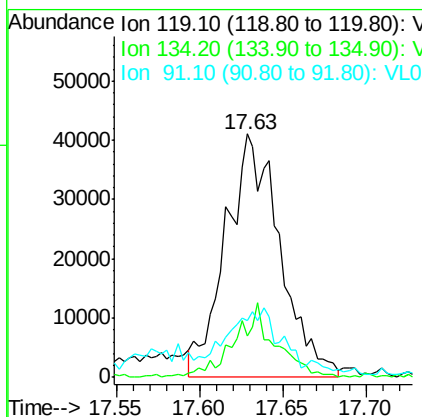
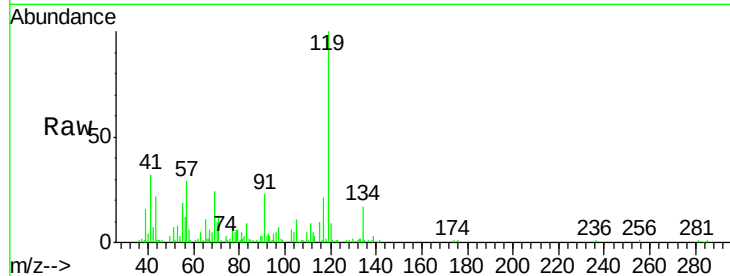
#69
 p-Isopropyltoluene
 Concen: 0.185 ppbv m
 RT: 17.63 min Scan# 4616
 Delta R.T. -0.02 min
 Lab File: VL037823.D
 Acq: 8 Oct 2021 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P23

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	92966		
134	0.0	21.2	31.8#	
91	0.0	22.2	33.4#	

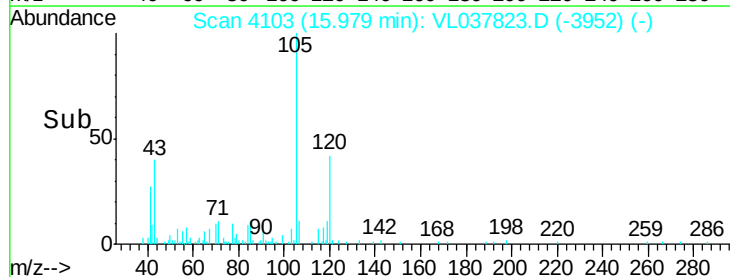
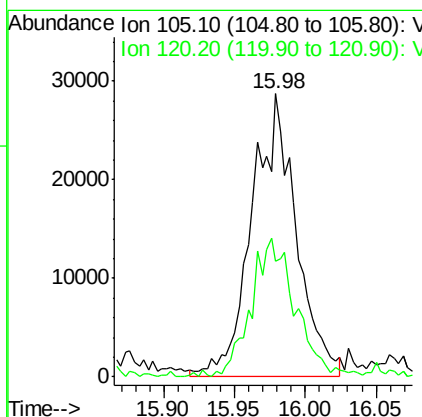
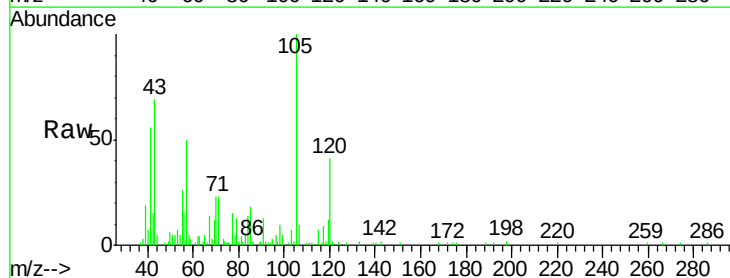
Manual Integrations
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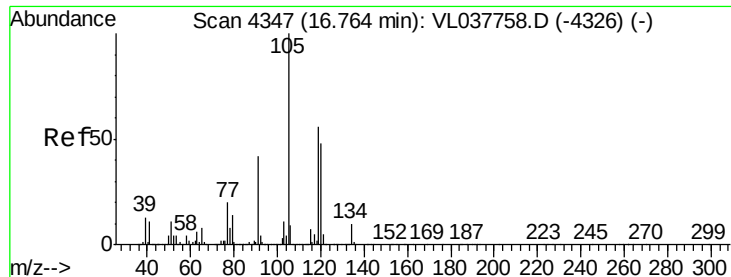
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.163 ppbv m
 RT: 15.98 min Scan# 4103
 Delta R.T. -0.02 min
 Lab File: VL037823.D
 Acq: 8 Oct 2021 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	62436		
120	41.0	36.6	54.8	





#74

1,2,4-Trimethylbenzene

Concen: 0.545 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.03 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Instrument :

MSVOA_L

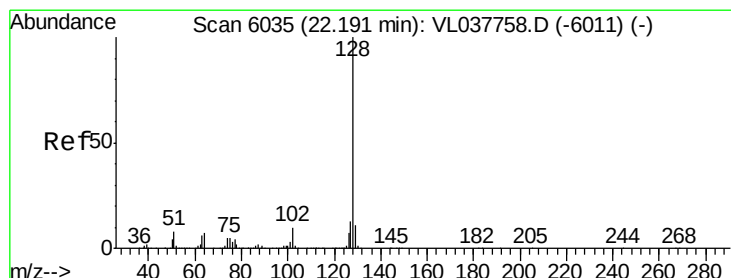
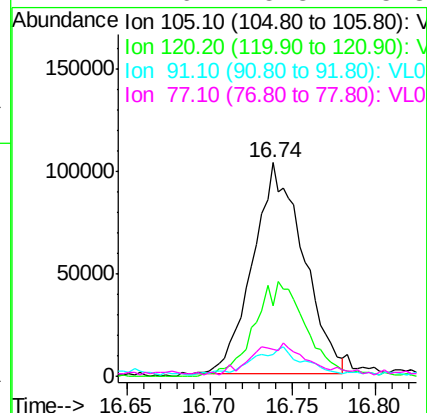
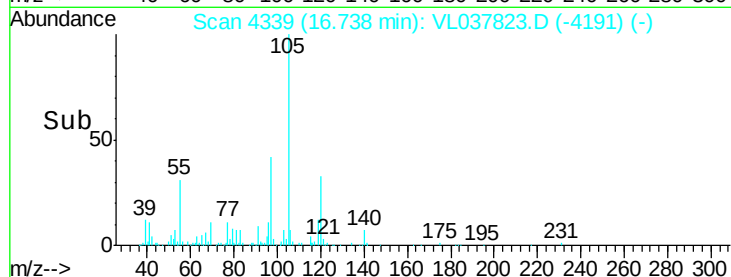
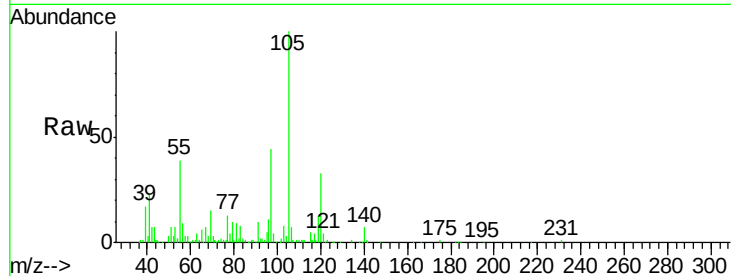
ClientSampled :

C0P23

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	218951		
120	32.8	38.4	57.6#	
91	9.6	34.2	51.2#	
77	11.6	15.8	23.8#	

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#79

Naphthalene

Concen: 0.497 ppbv m

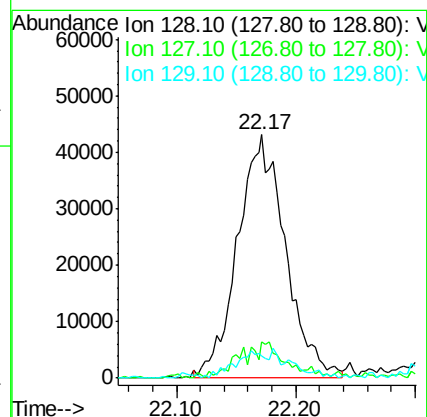
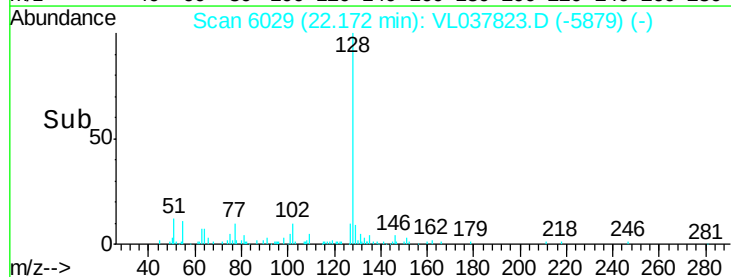
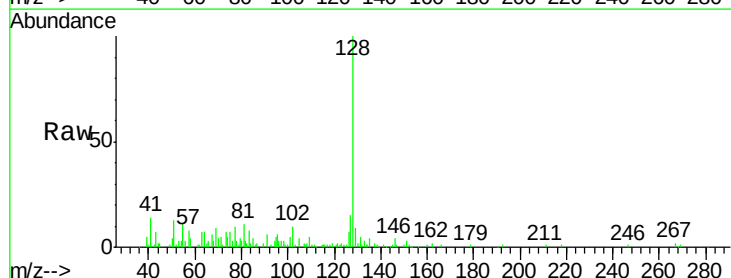
RT: 22.17 min Scan# 6029

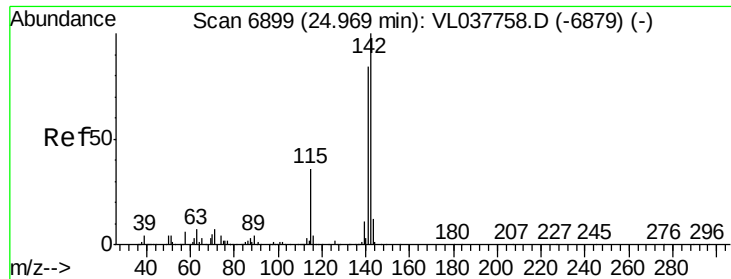
Delta R.T. -0.02 min

Lab File: VL037823.D

Acq: 8 Oct 2021 9:05

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	122230		
127	14.8	10.1	15.1	
129	9.2	9.1	13.7	





#80
 Naphthalene, 2-methyl-
 Concen: 0.948 ppbv
 RT: 24.95 min Scan# 6893
 Delta R.T. -0.02 min
 Lab File: VL037823.D
 Acq: 8 Oct 2021 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P23

Tgt Ion:	142	Resp:	62555
Ion Ratio	Lower	Upper	
142	100		
141	93.8	68.6	102.8
115	68.6	29.0	43.6

Manual Integrations
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