

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091721\
 Data File : VL037644.D
 Acq On : 17 Sep 2021 16:42
 Operator : SY/AP
 Sample : M3801-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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 9/20/2021 5:28:35 PM

Quant Time: Sep 18 09:17:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1411440	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3971872	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3471884	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2545492	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	54373m	0.213	ppbv	
3) Chlorodifluoromethane	2.98	51	232731m	0.874	ppbv	
4) Chloromethane	3.13	50	57333	0.583	ppbv	92
9) Propene	3.01	41	82088	0.874	ppbv	85
10) Heptane	8.11	43	37170m	0.170	ppbv	
11) Trichlorofluoromethane	3.94	101	230890	1.126	ppbv	86
13) Ethanol	3.59	45	3809200	414.686	ppbv	92
15) Acetone	3.84	43	1521243	10.374	ppbv	97
19) Isopropyl Alcohol	3.95	45	7575931	94.947	ppbv #	92
20) Methylene Chloride	4.33	84	2358065	33.681	ppbv	98
26) Hexane	5.67	57	818628	4.852	ppbv #	51
29) Chloroform	5.74	83	37128m	0.151	ppbv	
34) 2-Butanone	5.23	43	167050	1.035	ppbv	93
35) Carbon Tetrachloride	7.00	117	14006m	0.062	ppbv	
36) Benzene	6.88	78	69743m	0.211	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	82349m	0.148	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	50152m	0.245	ppbv	
52) Tetrachloroethene	11.22	164	6104m	0.048	ppbv	
53) Toluene	9.78	91	145050m	0.394	ppbv	
59) m/p-Xylene	12.95	91	78656m	0.196	ppbv	
61) Styrene	13.51	104	65816m	0.349	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	48958m	0.114	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	74568m	0.282	ppbv	
79) Naphthalene	22.18	128	37543m	0.142	ppbv	

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

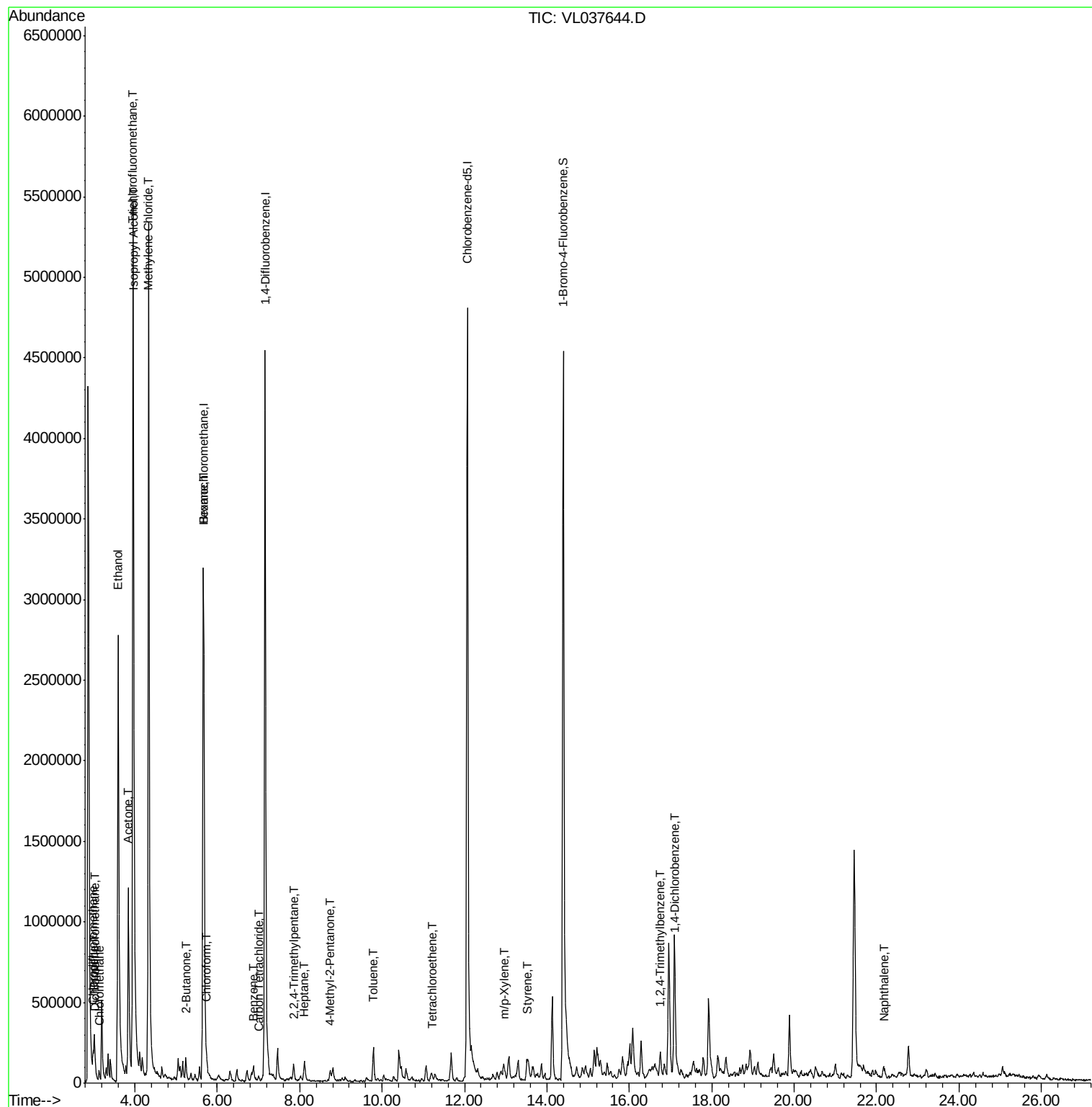
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091721\
Data File : VL037644.D
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Misc : 400mL/MSVOA L
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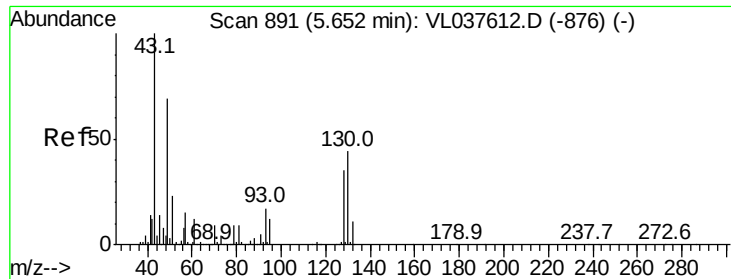
Instrument :
MSVOA_L
ClientSampleId :
IA1

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Quant Time: Sep 18 09:17:00 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037644.D

Acq: 17 Sep 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 49 Resp: 1411440

Ion Ratio Lower Upper

49 100

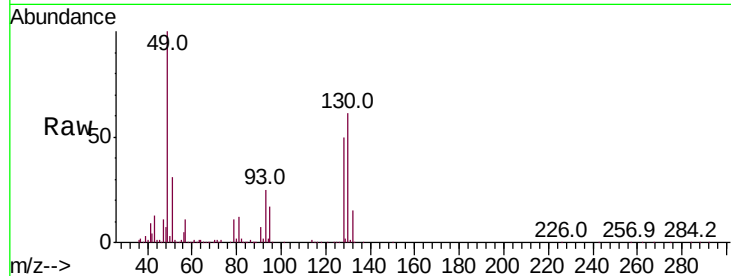
128 53.7 27.9 83.6

130 67.9 33.9 101.7

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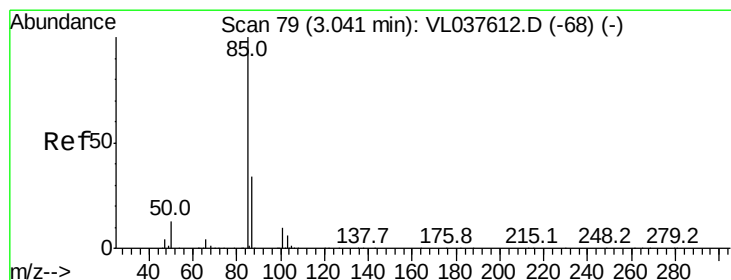
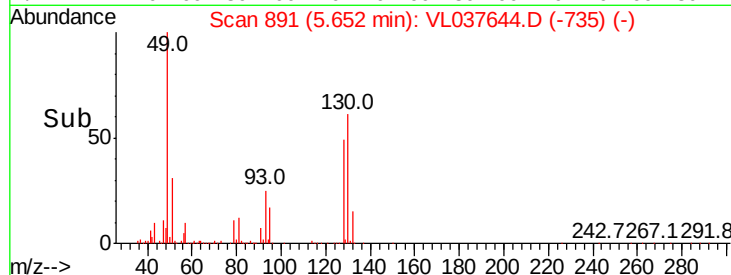
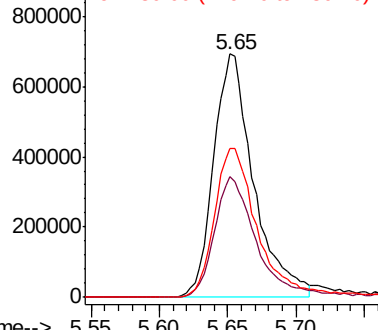
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.213 ppbv m

RT: 3.04 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL037644.D

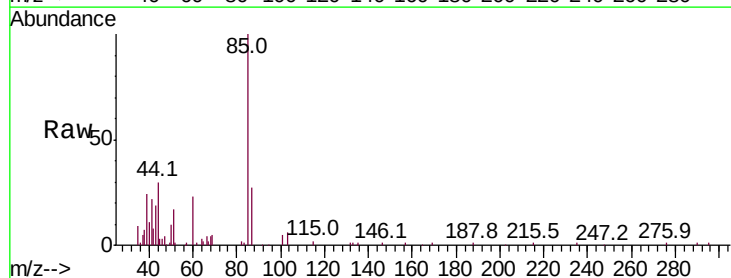
Acq: 17 Sep 2021 16:42

Tgt Ion: 85 Resp: 54373

Ion Ratio Lower Upper

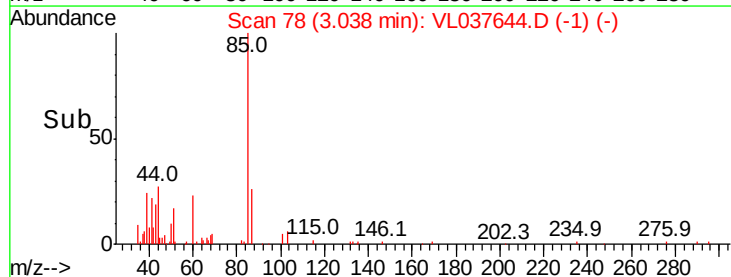
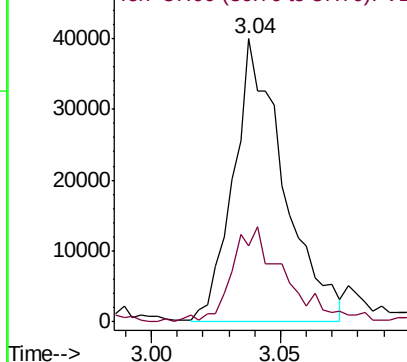
85 100

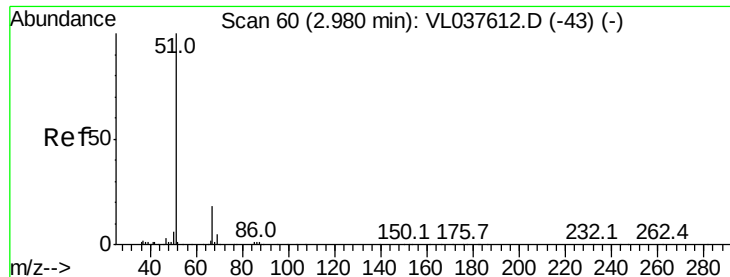
87 26.8 26.8 40.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

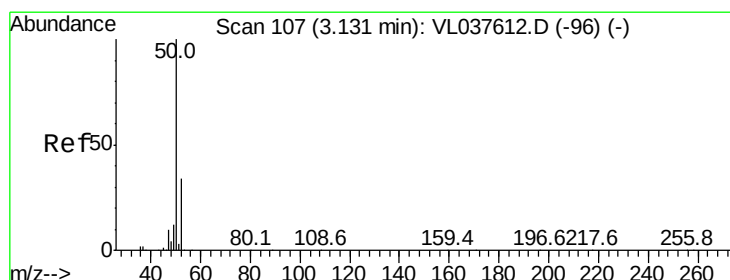
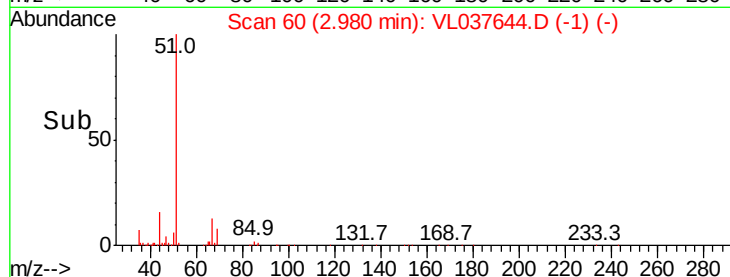
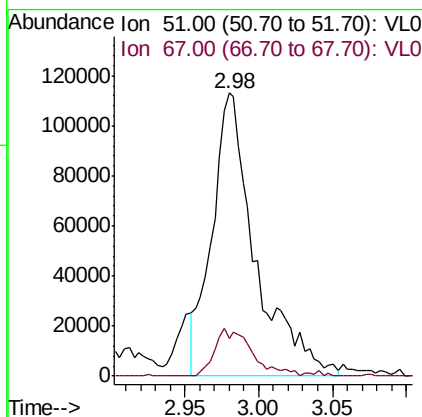
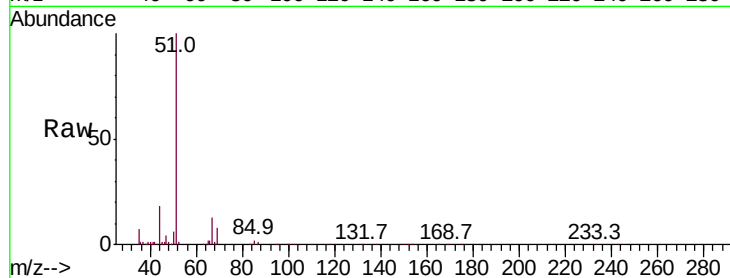
Chlorodifluoromethane
Concen: 0.874 ppbv
RT: 2.98 min Scan# 60
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
51	100		
67	15.1	14.0	21.0

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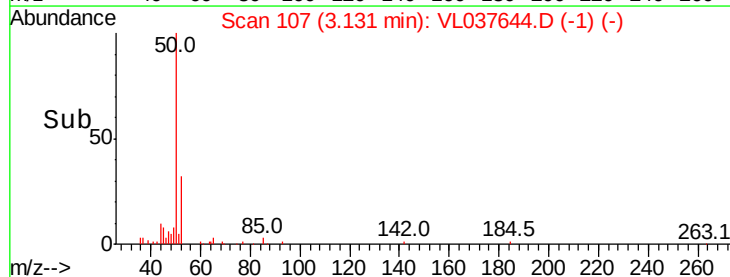
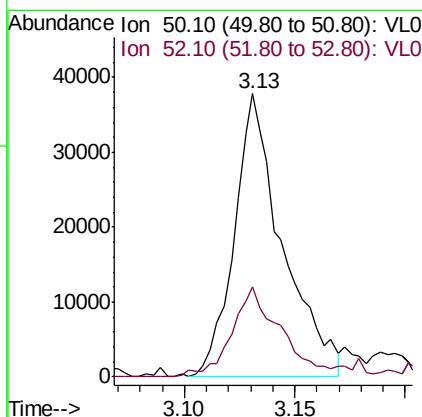
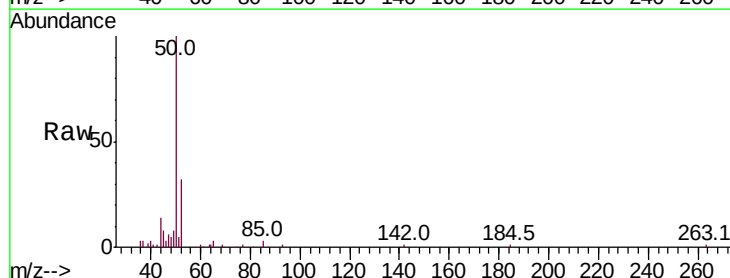
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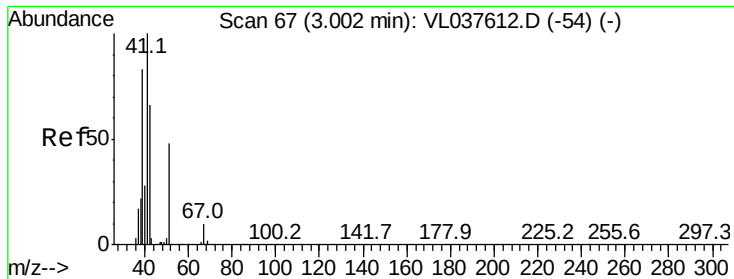


#4

Chloromethane
Concen: 0.583 ppbv
RT: 3.13 min Scan# 107
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.4	27.1	40.7





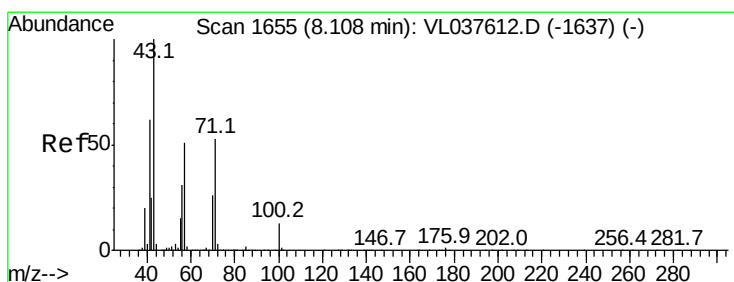
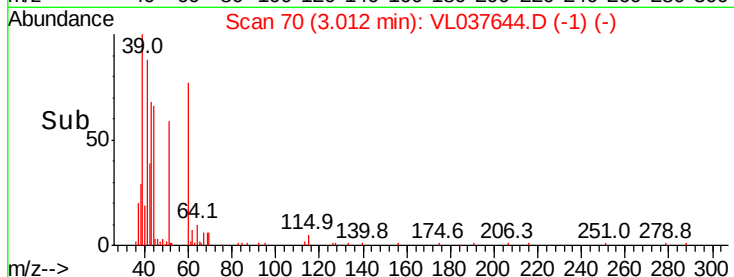
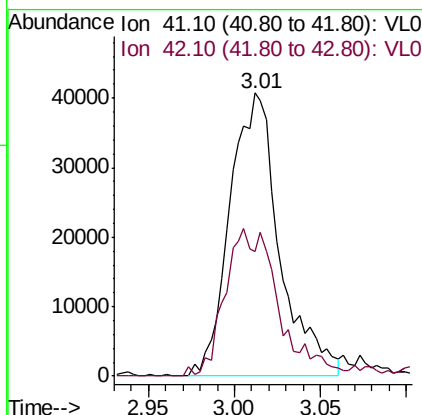
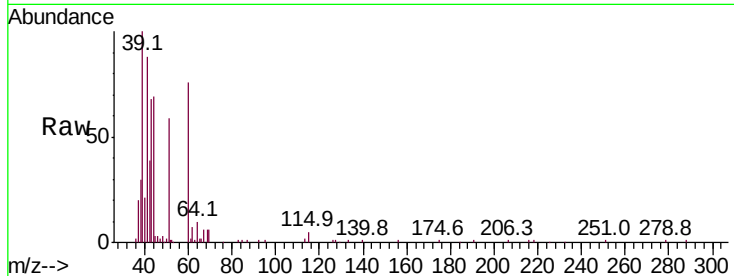
#9
 Propene
 Concen: 0.874 ppbv
 RT: 3.01 min Scan# 70
 Delta R.T. 0.01 min
 Lab File: VL037644.D
 Acq: 17 Sep 2021 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion: 41 Resp: 82088
 Ion Ratio Lower Upper
 41 100
 42 58.9 57.2 85.8

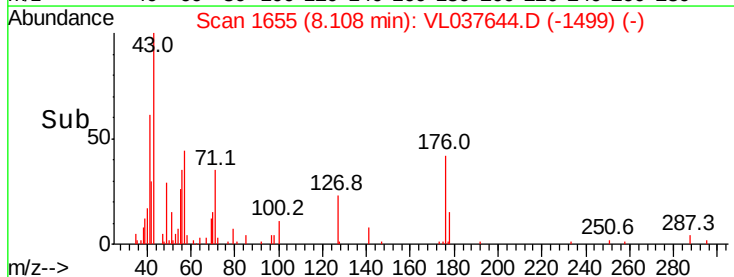
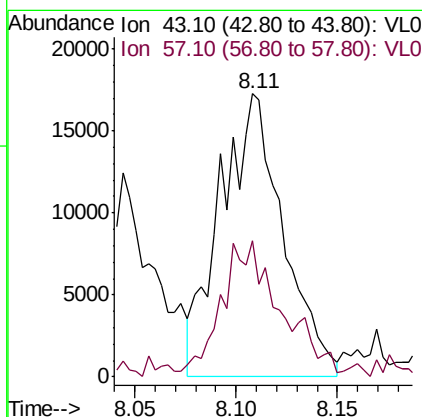
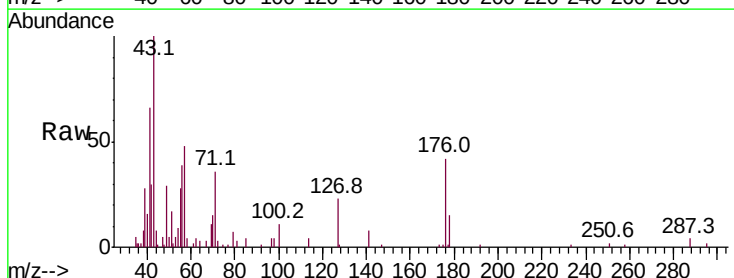
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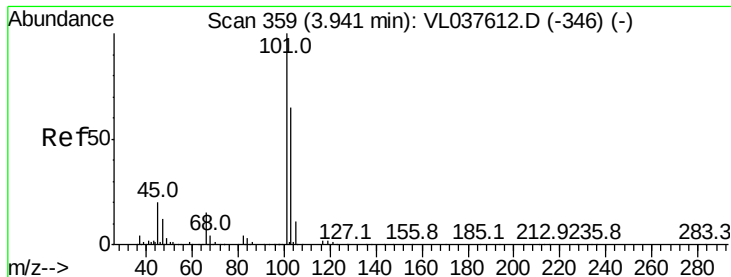
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#10
 Heptane
 Concen: 0.170 ppbv m
 RT: 8.11 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VL037644.D
 Acq: 17 Sep 2021 16:42

Tgt Ion: 43 Resp: 37170
 Ion Ratio Lower Upper
 43 100
 57 47.7 40.1 60.1





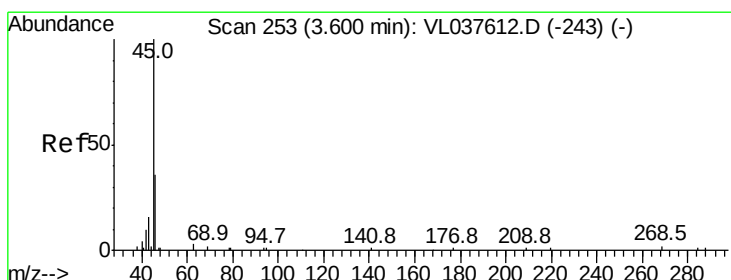
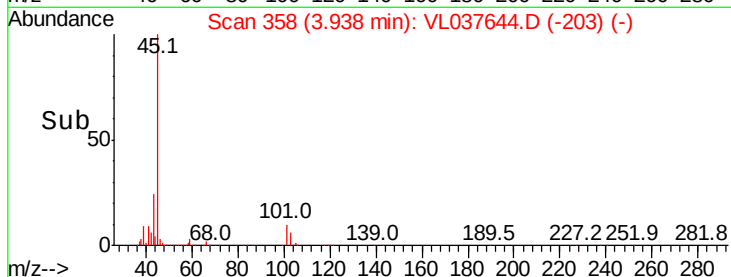
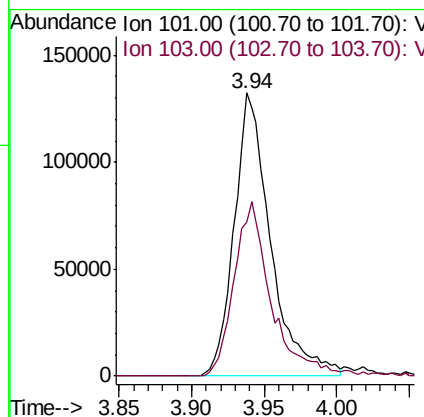
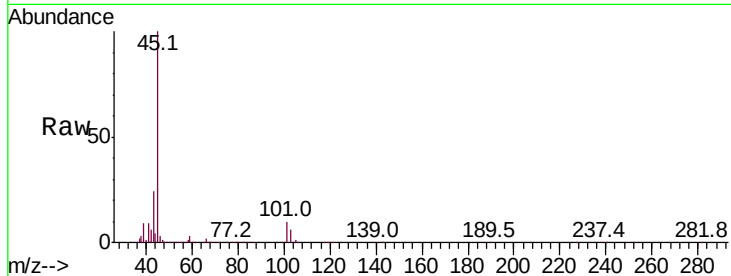
#11
 Trichlorofluoromethane
 Concen: 1.126 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL037644.D
 Acq: 17 Sep 2021 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion	Ratio	Lower	Upper
101	100		
103	54.2	51.9	77.9

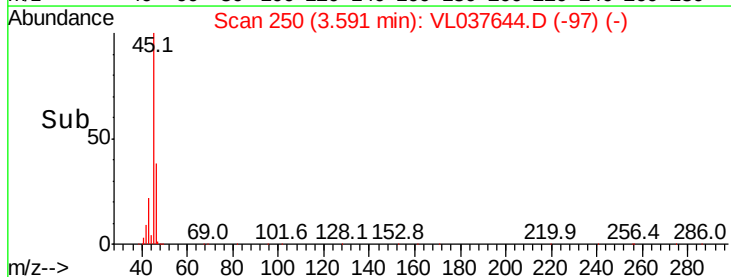
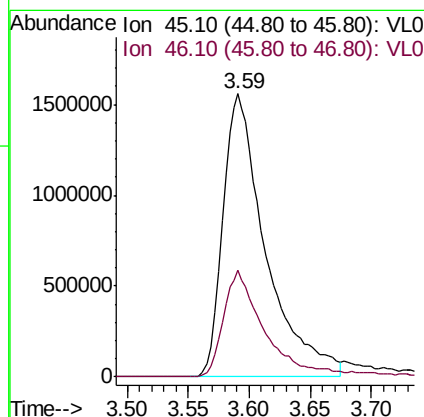
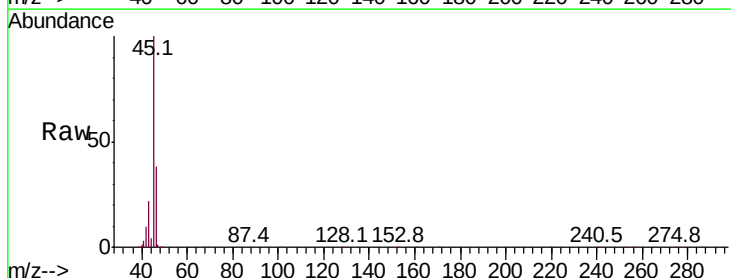
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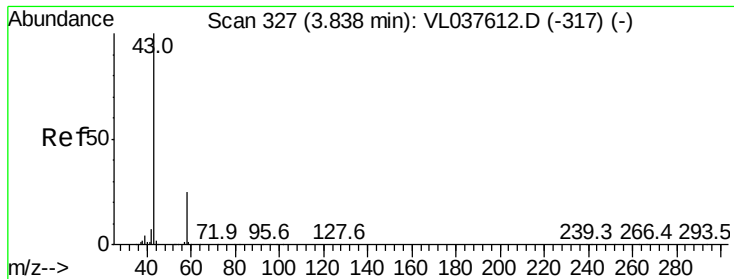
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#13
 Ethanol
 Concen: 414.686 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.01 min
 Lab File: VL037644.D
 Acq: 17 Sep 2021 16:42

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.8	17.2	68.8





#15

Acetone

Concen: 10.374 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL037644.D

Acq: 17 Sep 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 43 Resp: 1521243

Ion Ratio Lower Upper

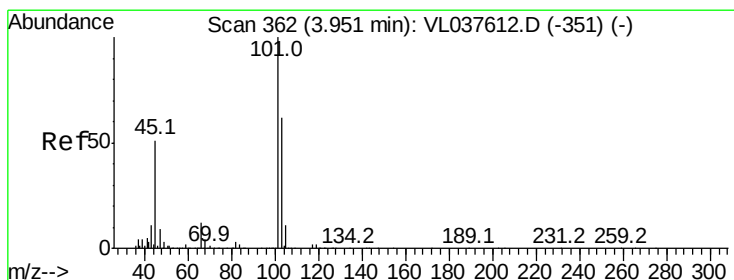
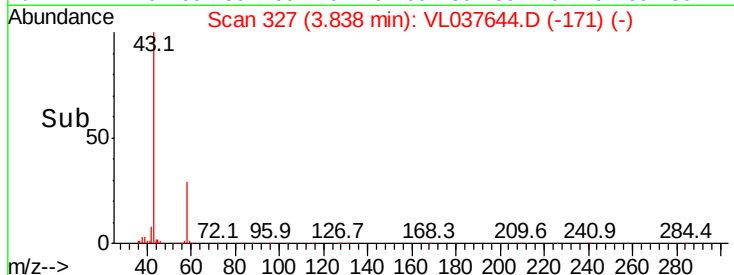
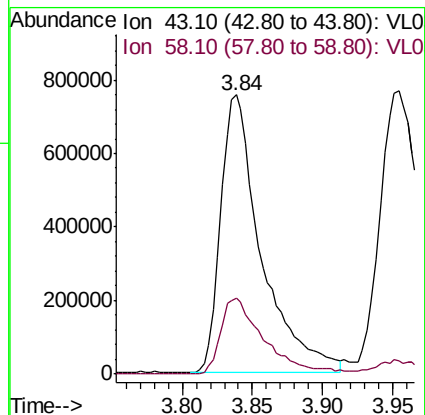
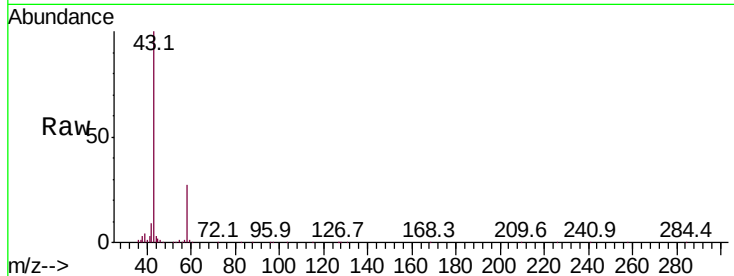
43 100

58 29.5 24.9 37.3

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 94.947 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL037644.D

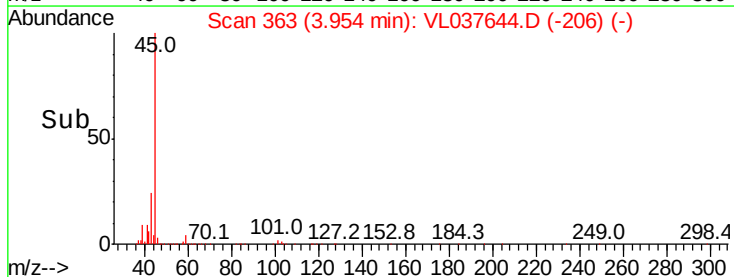
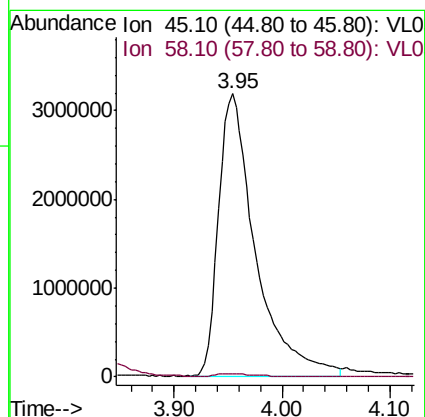
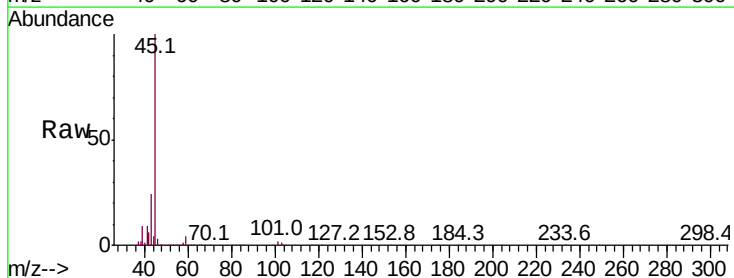
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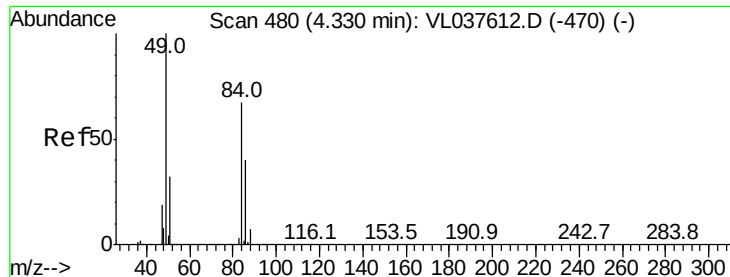
Tgt Ion: 45 Resp: 7575931

Ion Ratio Lower Upper

45 100

58 1.1 2.9 4.3#





#20
Methvlene Chloride
Concen: 33.681 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

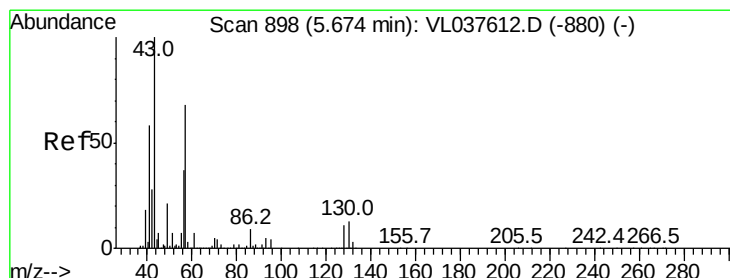
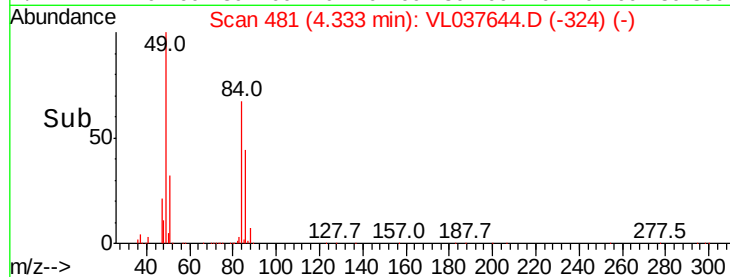
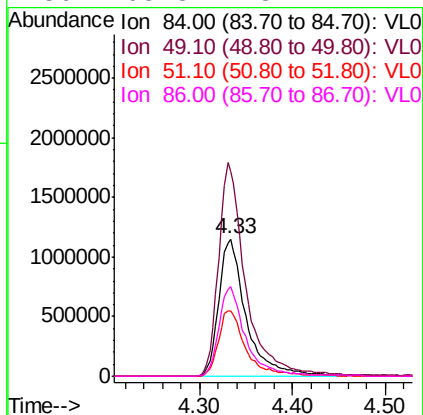
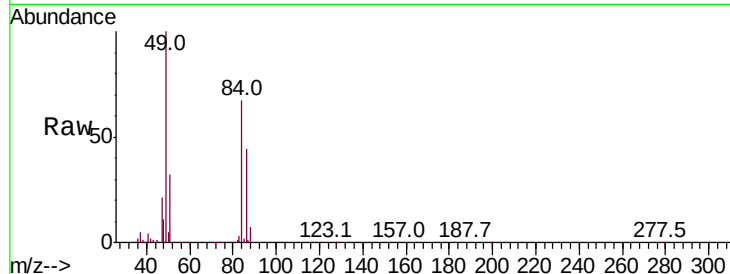
Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 84 Resp: 2358065

Ion	Ratio	Lower	Upper
84	100		
49	149.4	120.0	180.0
51	47.9	38.0	57.0
86	65.3	48.2	72.2

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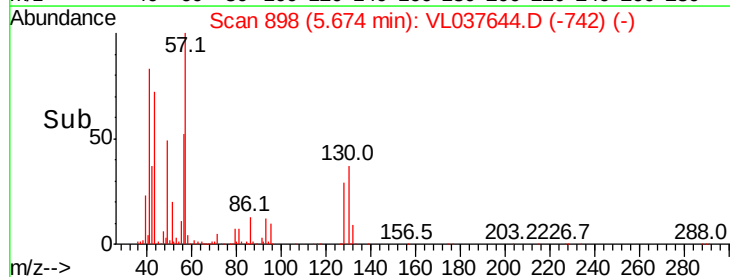
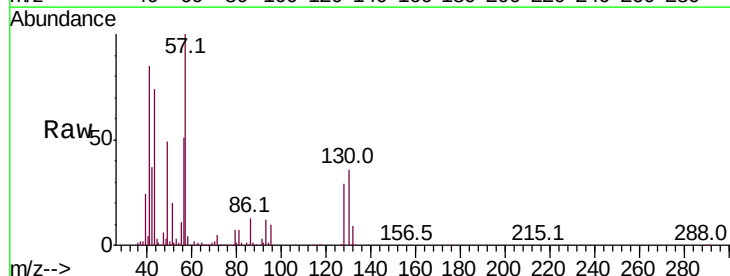
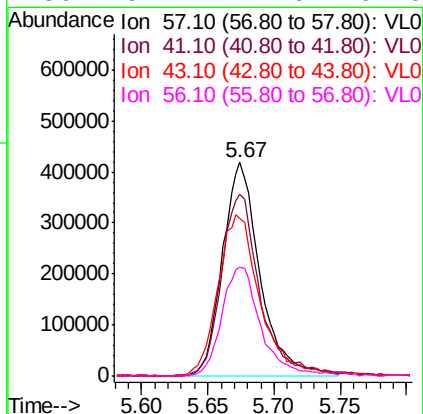
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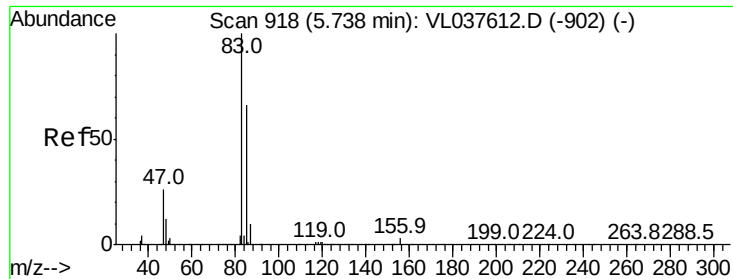


#26
Hexane
Concen: 4.852 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Tgt Ion: 57 Resp: 818628

Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.9	106.3
43	85.3	170.4	255.6#
56	54.1	42.6	64.0





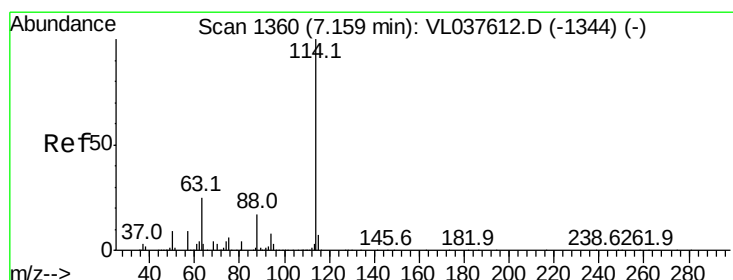
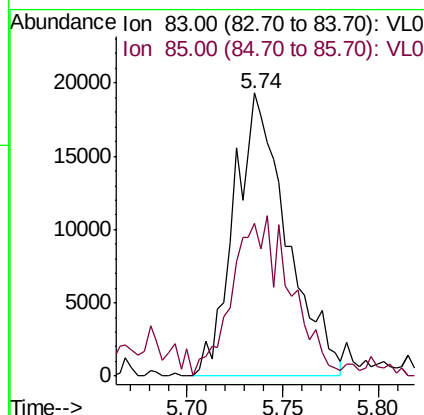
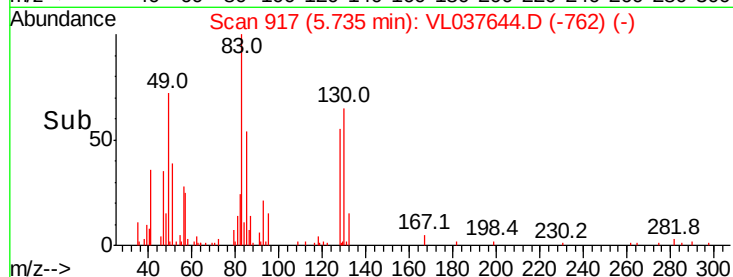
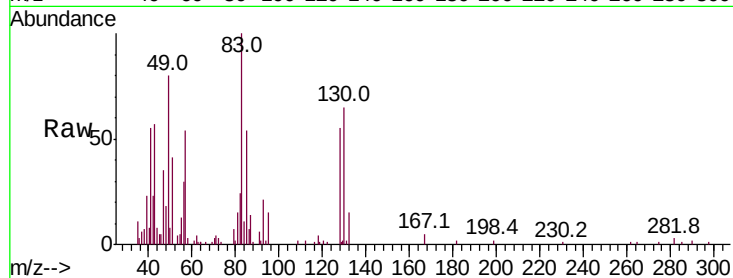
#29
Chloroform
Concen: 0.151 ppbv m
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 83 Resp: 37128
Ion Ratio Lower Upper
83 100
85 53.9 52.6 79.0

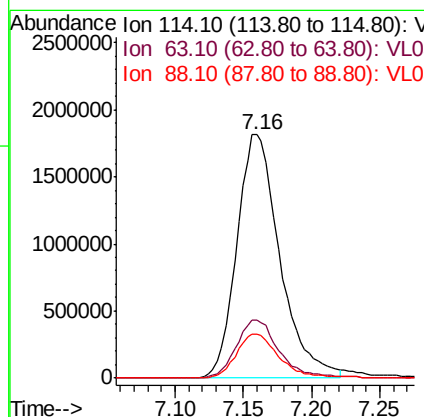
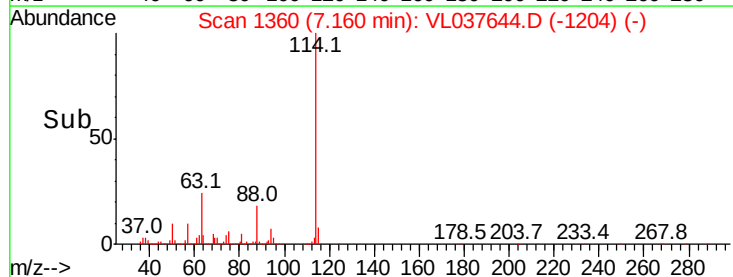
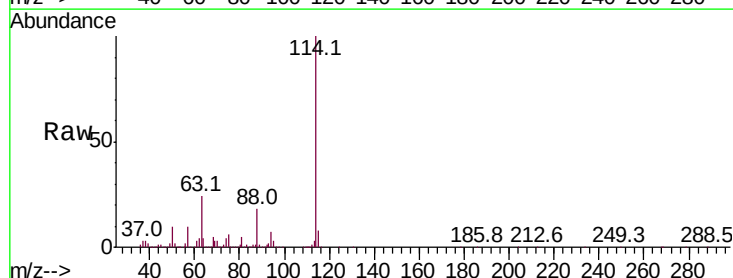
Manual Integrations
APPROVED

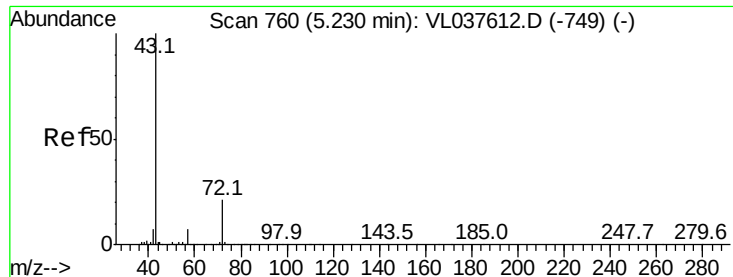
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Tgt Ion: 114 Resp: 3971872
Ion Ratio Lower Upper
114 100
63 24.1 19.6 29.4
88 18.3 14.2 21.4





#34

2-Butanone

Concen: 1.035 ppbv

RT: 5.23 min Scan# 761

Delta R.T. 0.00 min

Lab File: VL037644.D

Acq: 17 Sep 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 43 Resp: 167050

Ion Ratio Lower Upper

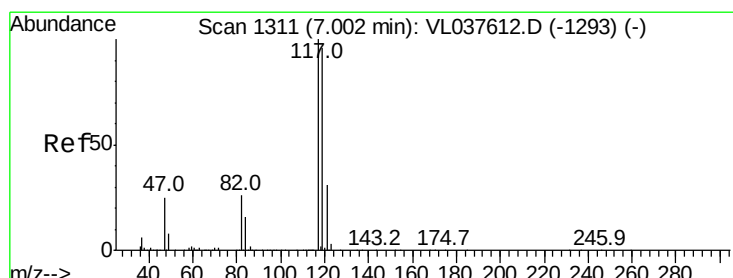
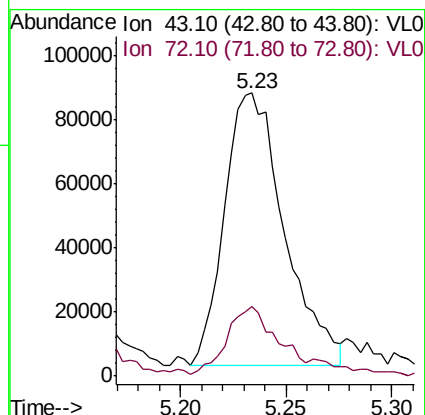
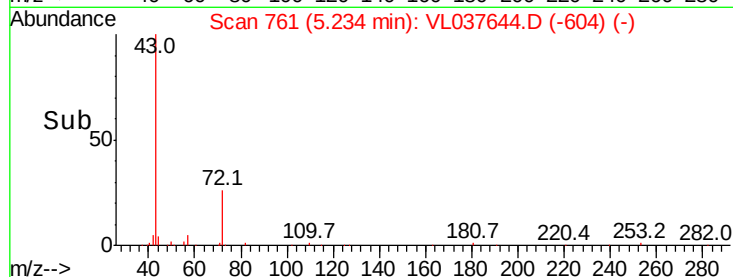
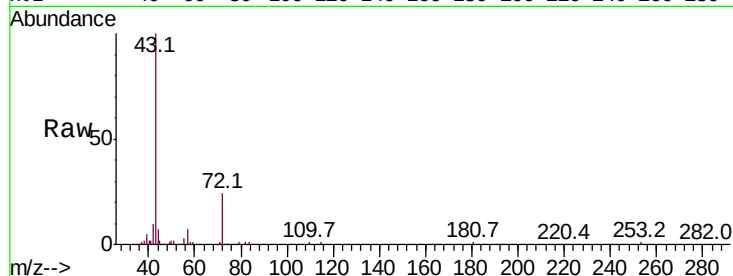
43 100

72 26.5 18.4 27.6

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#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VL037644.D

Acq: 17 Sep 2021 16:42

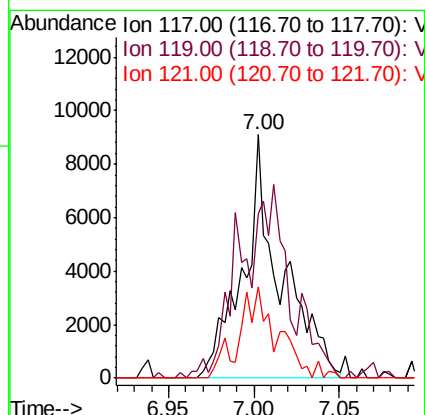
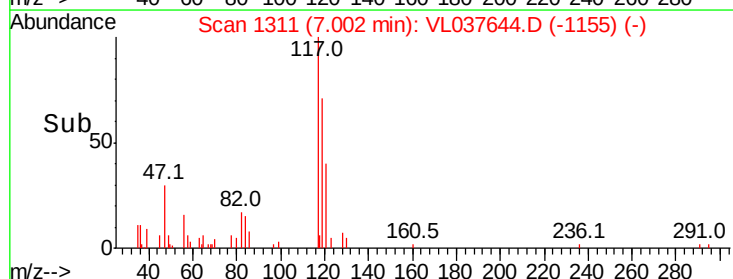
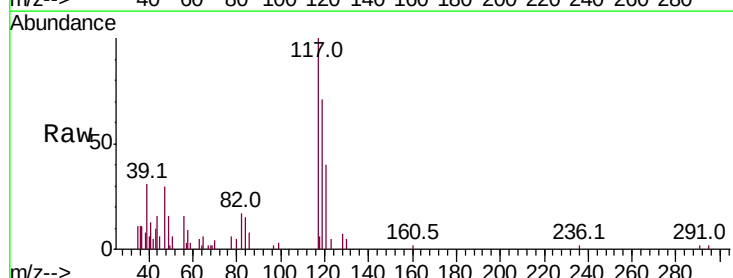
Tgt Ion: 117 Resp: 14006

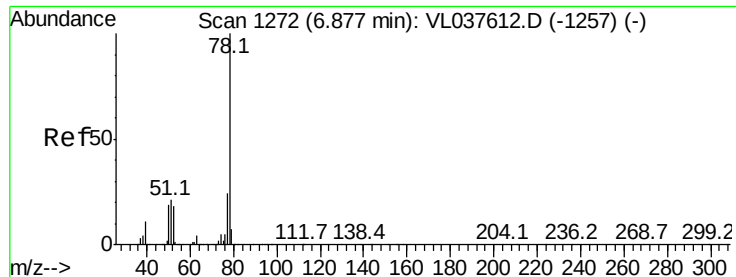
Ion Ratio Lower Upper

117 100

119 70.9 77.0 115.6#

121 39.7 24.5 36.7#





#36

Benzene

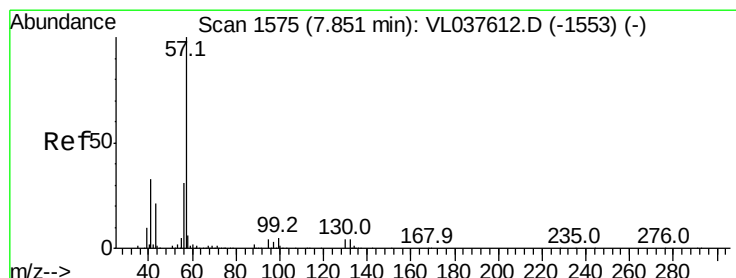
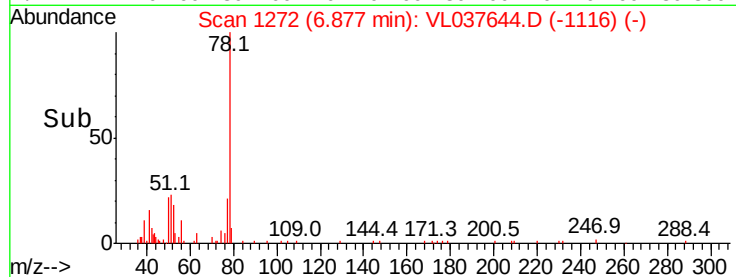
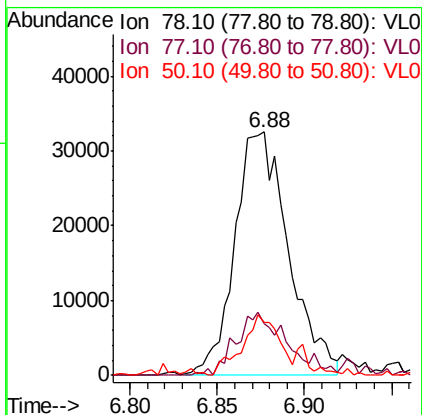
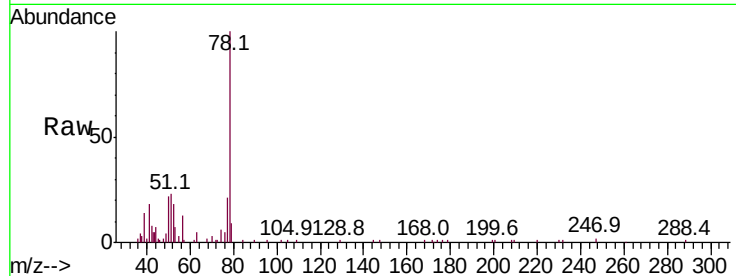
Concen: 0.211 ppbv m
RT: 6.88 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.0	19.0	28.4
50	21.8	14.8	22.2

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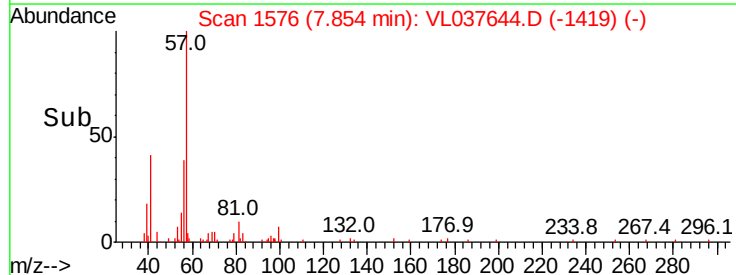
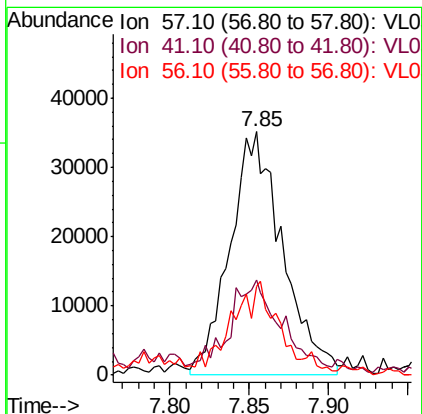
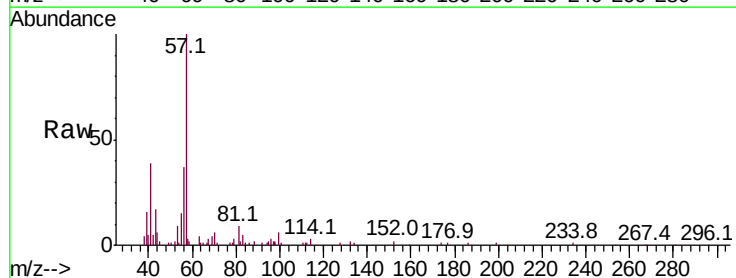


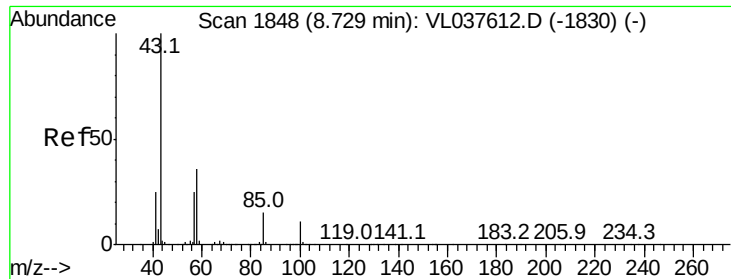
#44

2,2,4-Trimethylpentane

Concen: 0.148 ppbv m
RT: 7.85 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	41.8	26.1	39.1#
56	36.2	25.7	38.5





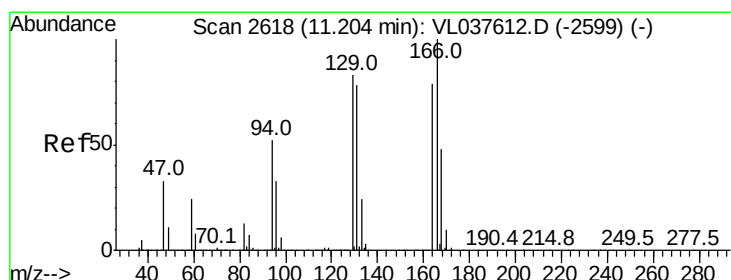
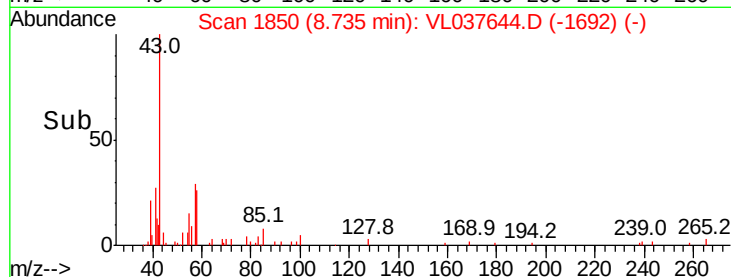
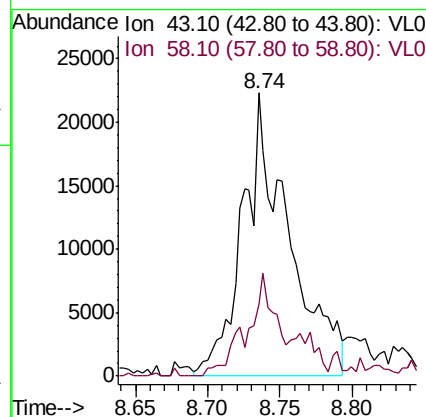
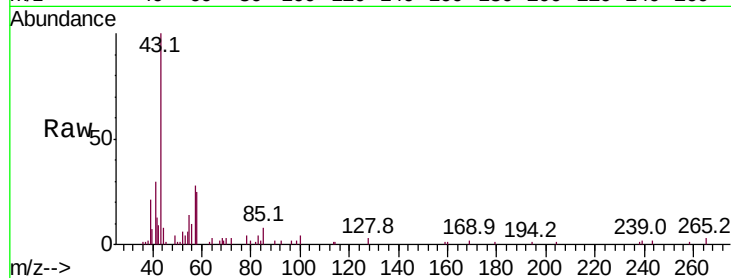
#50
4-Methyl-2-Pentanone
Concen: 0.245 ppbv
RT: 8.74 min Scan# 1850
Delta R.T. 0.01 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#

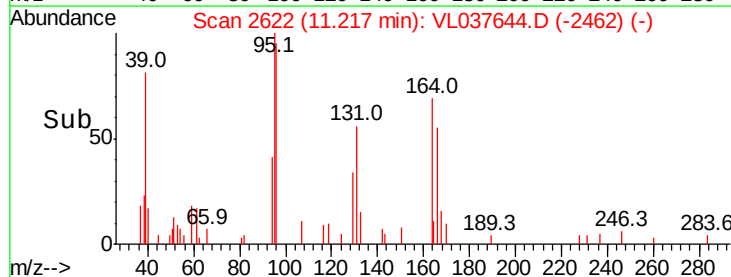
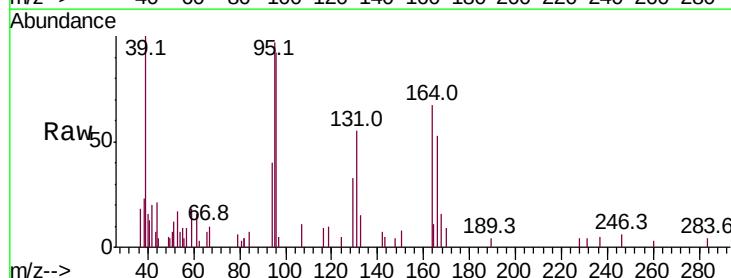
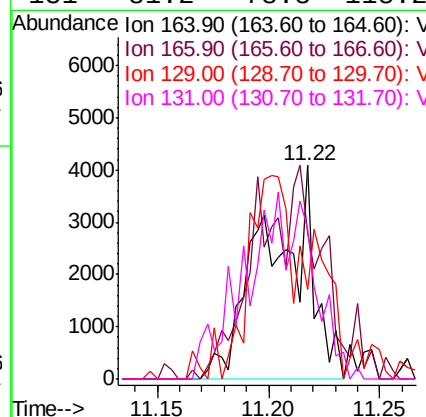
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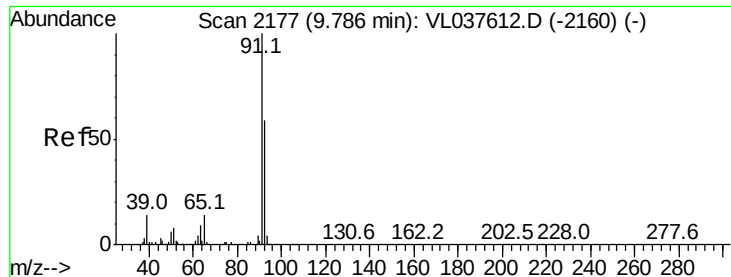
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#52
Tetrachloroethene
Concen: 0.048 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. 0.01 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	79.4	101.2	151.8#
129	48.6	84.0	126.0#
131	81.2	78.8	118.2





#53

Toluene

Concen: 0.394 ppbv m

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037644.D

Acq: 17 Sep 2021 16:42

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 91 Resp: 145050

Ion Ratio Lower Upper

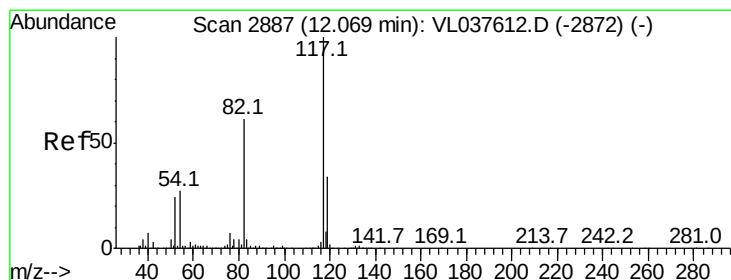
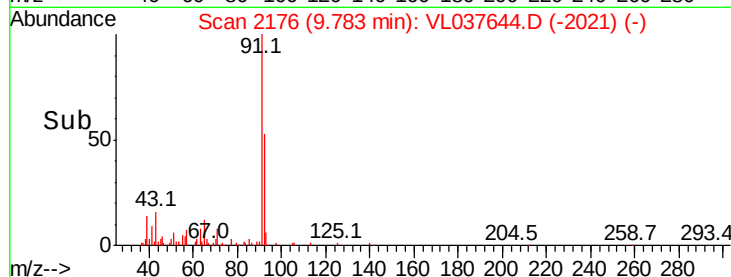
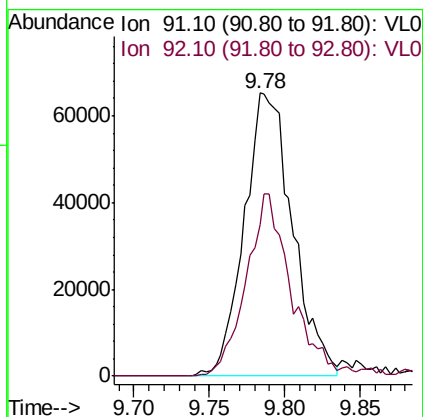
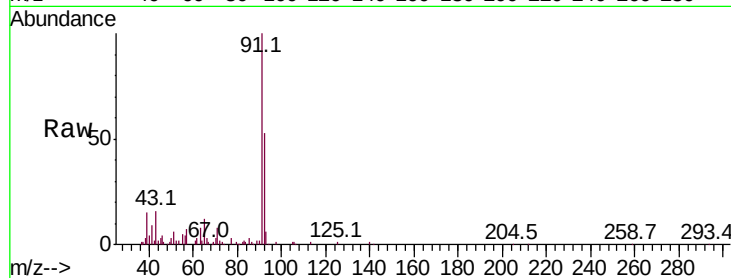
91 100

92 61.1 48.9 73.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VL037644.D

Acq: 17 Sep 2021 16:42

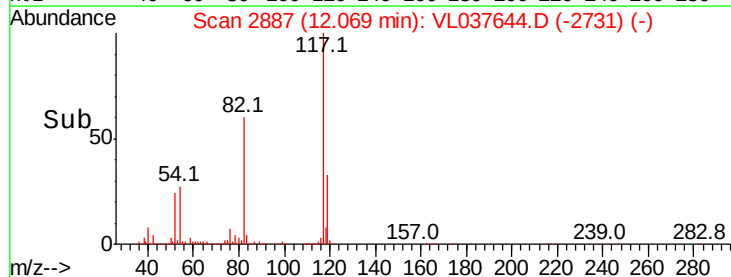
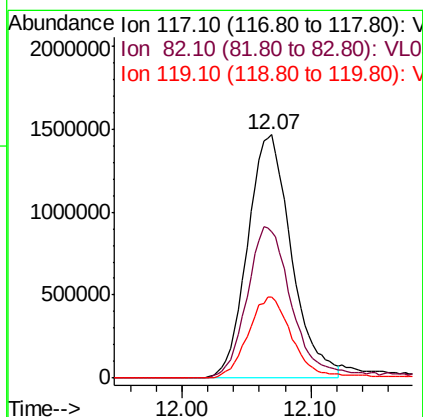
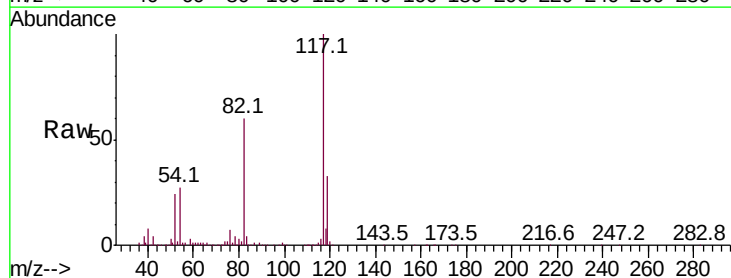
Tgt Ion: 117 Resp: 3471884

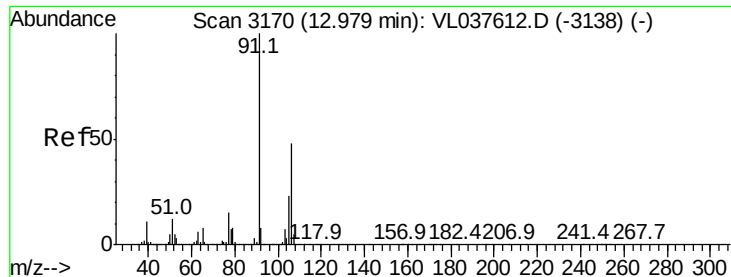
Ion Ratio Lower Upper

117 100

82 66.8 50.6 75.8

119 34.9 26.2 39.2





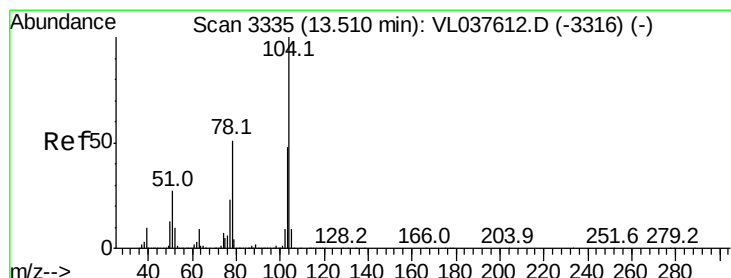
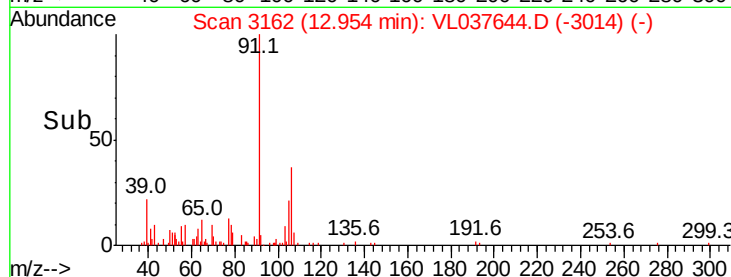
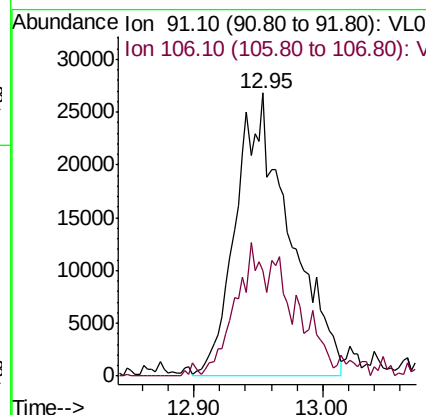
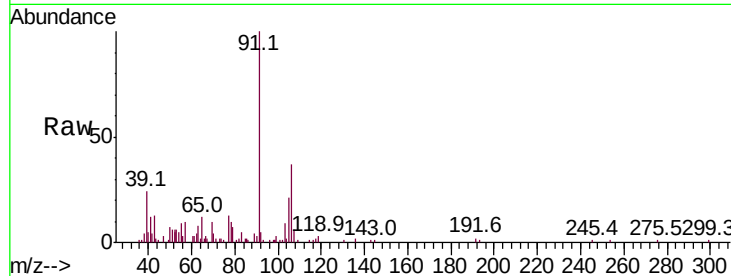
#59
m/p-Xylene
Concen: 0.196 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.03 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0#

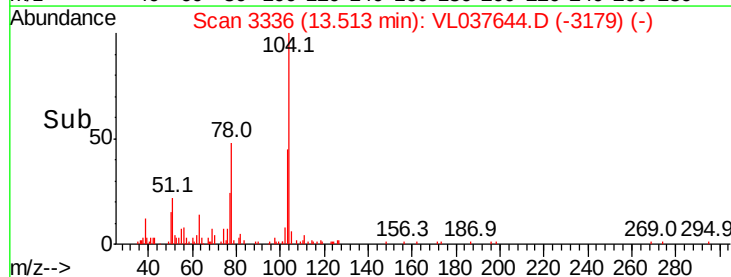
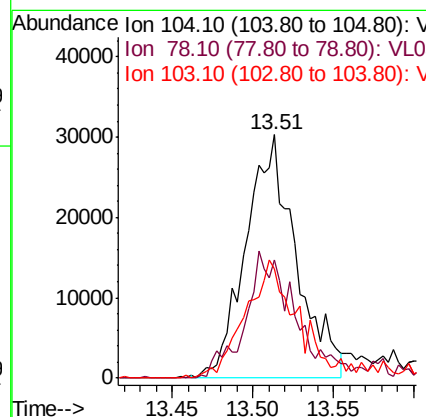
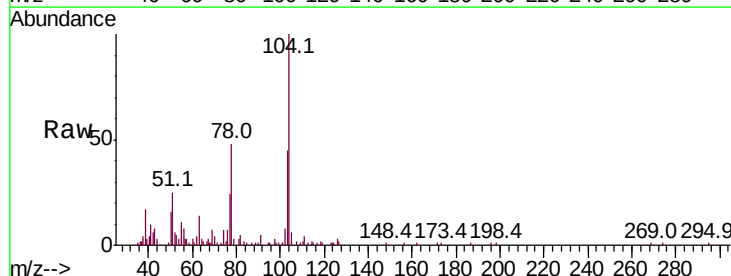
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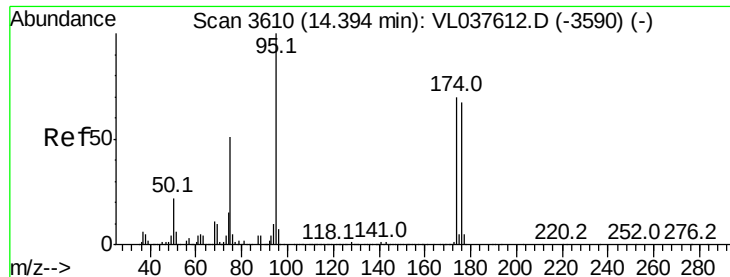
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#61
Styrene
Concen: 0.349 ppbv m
RT: 13.51 min Scan# 3336
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Tgt Ion	Ratio	Lower	Upper
104	100		
78	0.0	39.7	59.5#
103	49.8	38.8	58.2





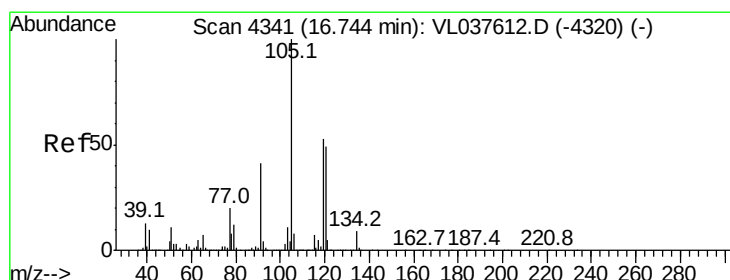
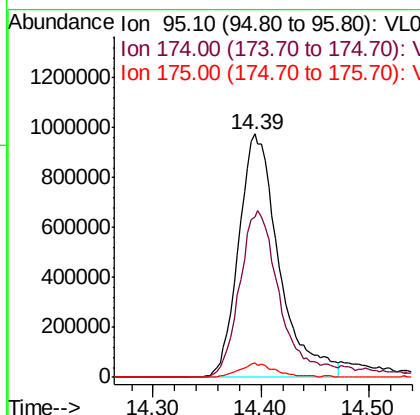
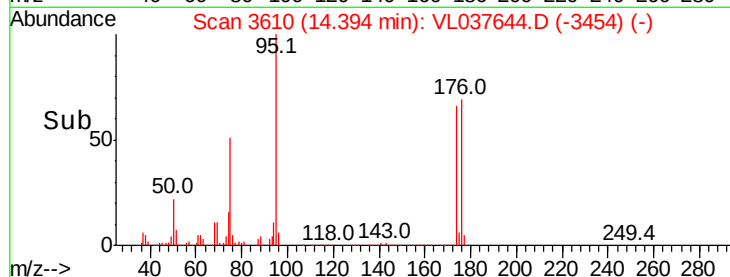
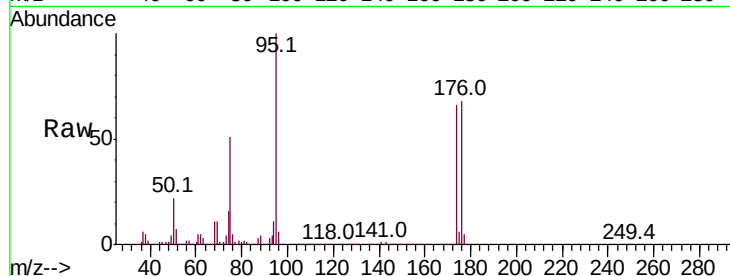
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.145 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL037644.D
 Acq: 17 Sep 2021 16:42

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tot Ion: 95 Resp: 2545492
 Ion Ratio Lower Upper
 95 100
 174 74.4 56.3 84.5
 175 5.7 4.4 6.6

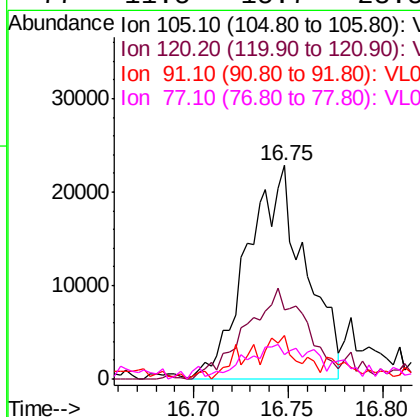
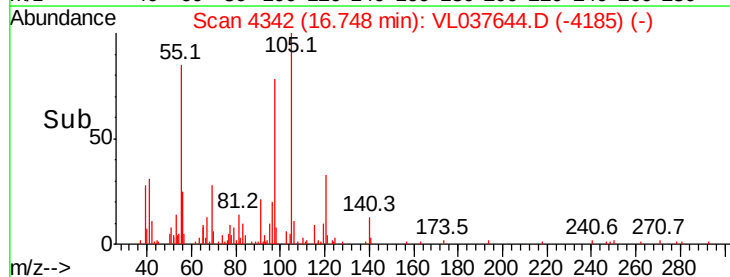
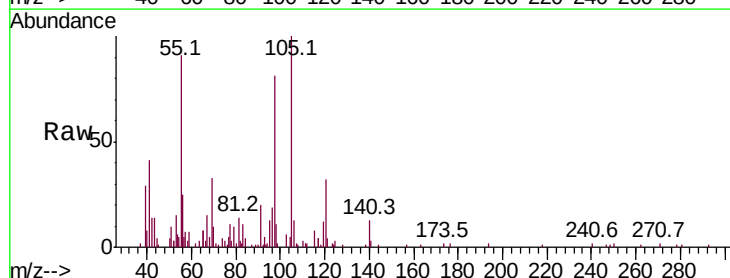
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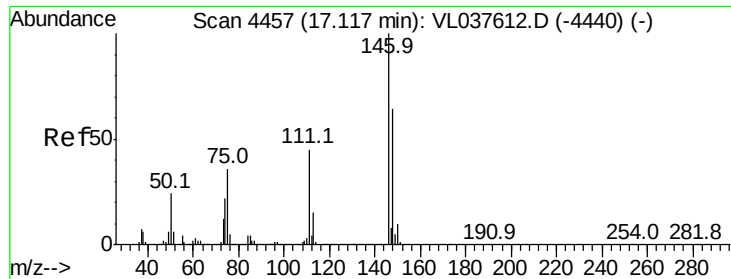
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.114 ppbv m
 RT: 16.75 min Scan# 4342
 Delta R.T. 0.00 min
 Lab File: VL037644.D
 Acq: 17 Sep 2021 16:42

Tgt Ion: 105 Resp: 48958
 Ion Ratio Lower Upper
 105 100
 120 32.3 39.4 59.0#
 91 20.3 33.3 49.9#
 77 11.5 15.7 23.5#





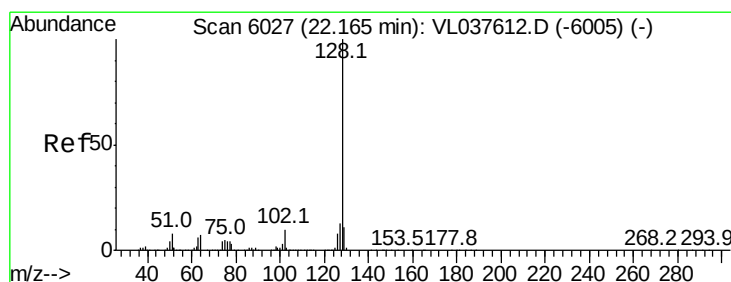
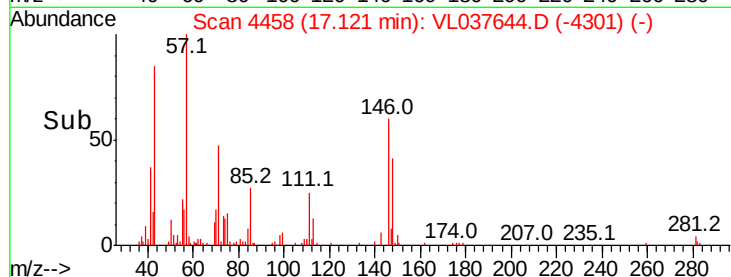
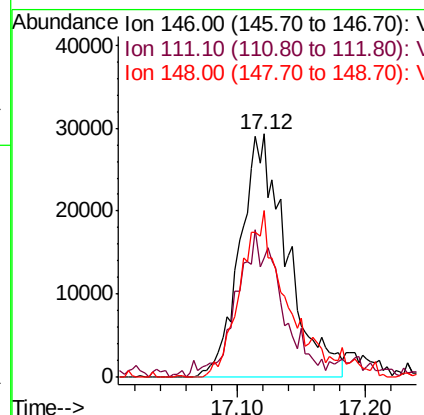
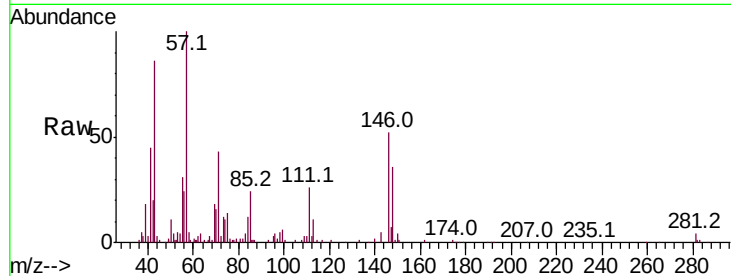
#76
1,4-Dichlorobenzene
Concen: 0.282 ppbv m
RT: 17.12 min Scan# 4458
Delta R.T. 0.00 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.5	67.5#
148	70.4	32.9	98.6

Manual Integrations
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#79
Naphthalene
Concen: 0.142 ppbv m
RT: 22.18 min Scan# 6030
Delta R.T. 0.01 min
Lab File: VL037644.D
Acq: 17 Sep 2021 16:42

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	16.6	8.6	12.8#

