

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122320\
 Data File : VL036202.D
 Acq On : 23 Dec 2020 21:32
 Operator : SY/AP
 Sample : L5196-03DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA2DUP

Manual Integrations
 APPROVED

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 12/26/2020 1:36:43 PM

Quant Time: Dec 25 23:47:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1351204	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.15	114	2622095	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.06	117	2310945	10.00	ppbv	-0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2075655	11.31	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	49519	0.314	ppbv	96
3) Chlorodifluoromethane	2.97	51	188923	1.225	ppbv	98
4) Chloromethane	3.12	50	40748	0.538	ppbv	91
9) Propene	3.00	41	147234m	1.906	ppbv	
10) Heptane	8.10	43	45584m	0.231	ppbv	
11) Trichlorofluoromethane	3.93	101	65753	0.355	ppbv	95
13) Ethanol	3.58	45	1521803	142.941	ppbv	85
15) Acetone	3.83	43	725661m	4.469	ppbv	
19) Isopropyl Alcohol	3.95	45	923498	9.304	ppbv #	100
20) Methylene Chloride	4.32	84	154083m	2.315	ppbv	
26) Hexane	5.66	57	432518	2.962	ppbv #	41
34) 2-Butanone	5.22	43	60195	0.346	ppbv	95
35) Carbon Tetrachloride	6.98	117	11621m	0.076	ppbv	
36) Benzene	6.86	78	119338m	0.537	ppbv	
44) 2,2,4-Trimethylpentane	7.84	57	111593	0.277	ppbv #	77
53) Toluene	9.78	91	315410	1.264	ppbv	100
58) Ethyl Benzene	12.69	91	58296m	0.184	ppbv	
59) m/p-Xylene	12.95	91	160420m	0.601	ppbv	
60) o-Xylene	13.66	91	58614	0.233	ppbv	95
74) 1,2,4-Trimethylbenzene	16.74	105	51867m	0.199	ppbv	

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

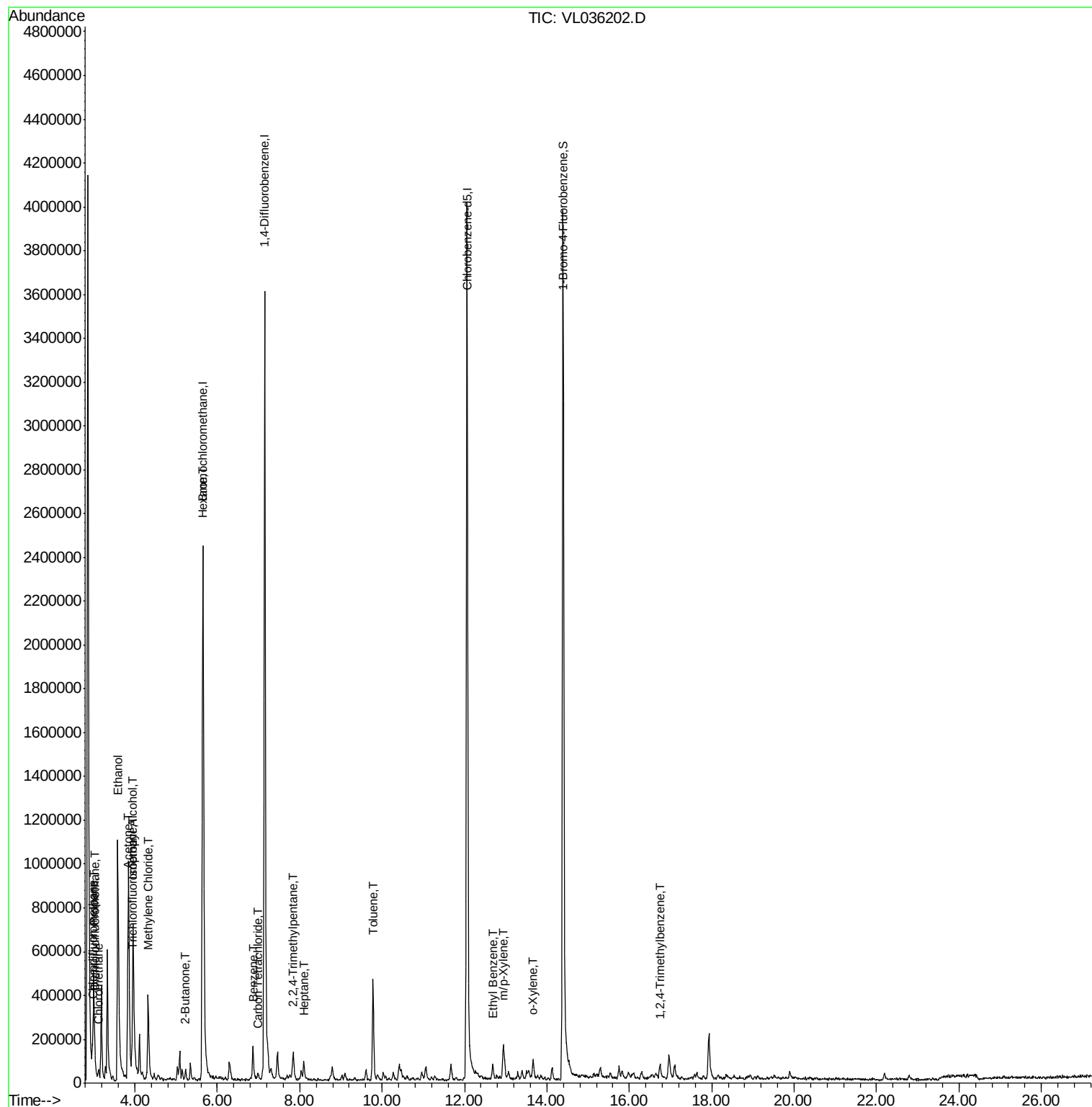
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122320\
Data File : VL036202.D
Acq On : 23 Dec 2020 21:32
Operator : SY/AP
Sample : L5196-03DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

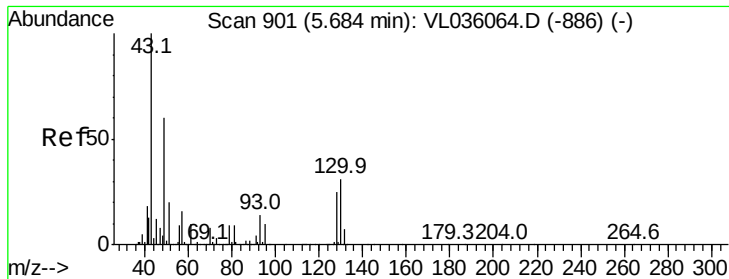
Instrument :
MSVOA_L
ClientSampleId :
IIA2DUP

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Quant Time: Dec 25 23:47:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.04 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

Instrument :

MSVOA_L

ClientSampleId :

IIA2DUP

Tot Ion: 49 Resp: 1351204

Ion Ratio Lower Upper

49 100

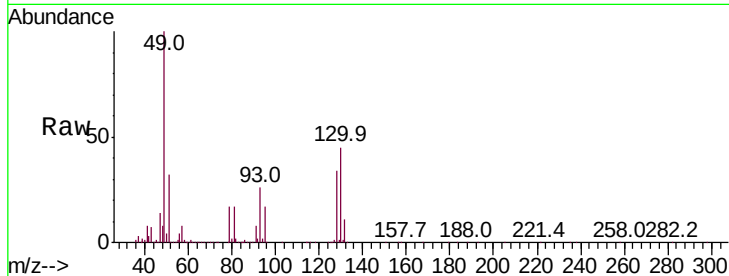
128 35.6 21.1 63.1

130 45.2 27.1 81.3

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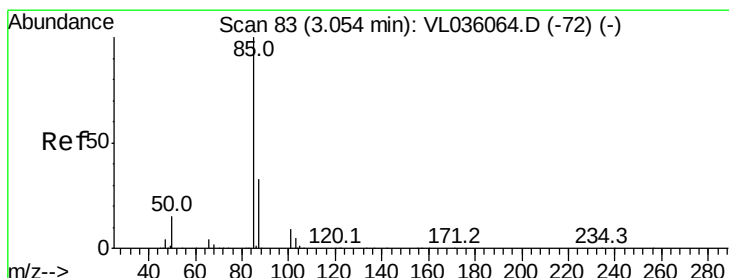
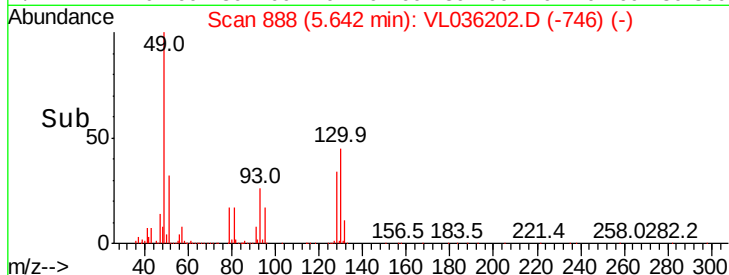
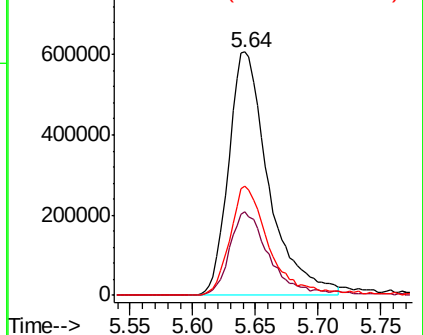
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.314 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.03 min

Lab File: VL036202.D

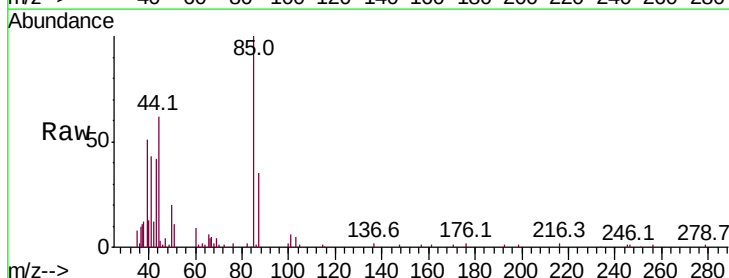
Acq: 23 Dec 2020 21:32

Tgt Ion: 85 Resp: 49519

Ion Ratio Lower Upper

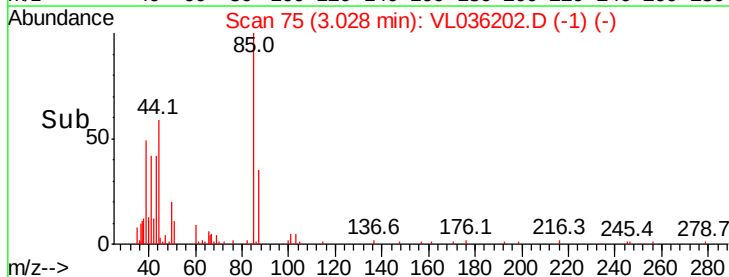
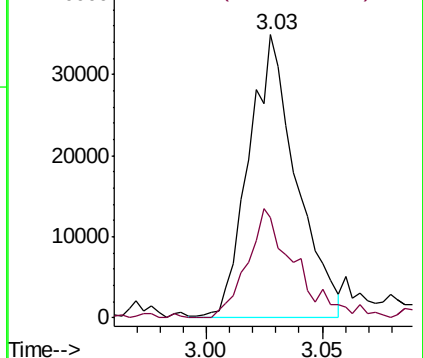
85 100

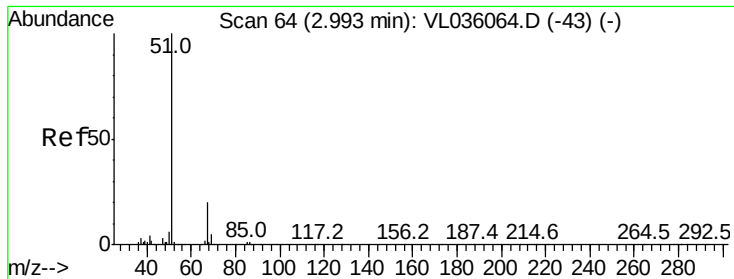
87 35.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.225 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.03 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

Instrument :

MSVOA_L

ClientSampleId :

IIA2DUP

Tot Ion: 51 Resp: 188923

Ion Ratio Lower Upper

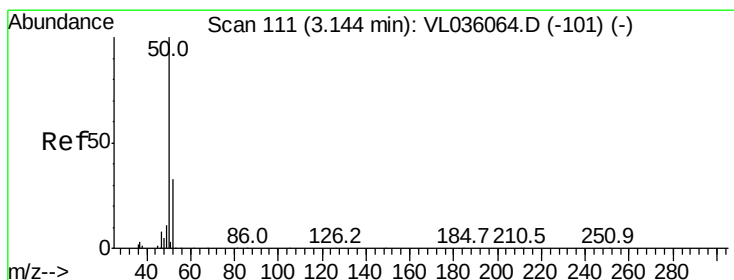
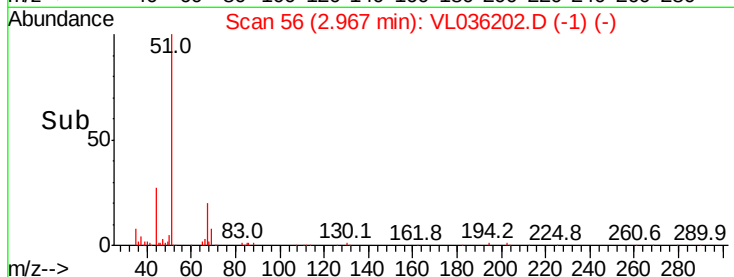
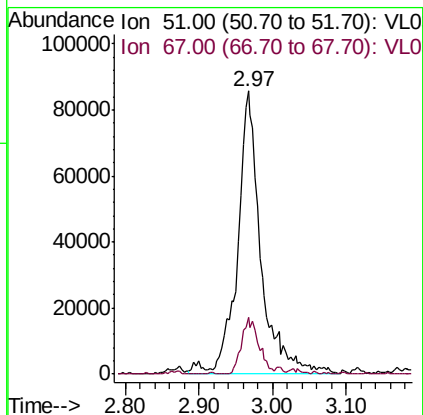
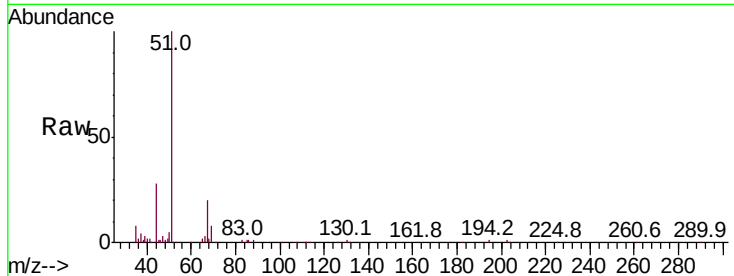
51 100

67 16.8 14.3 21.5

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#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036202.D

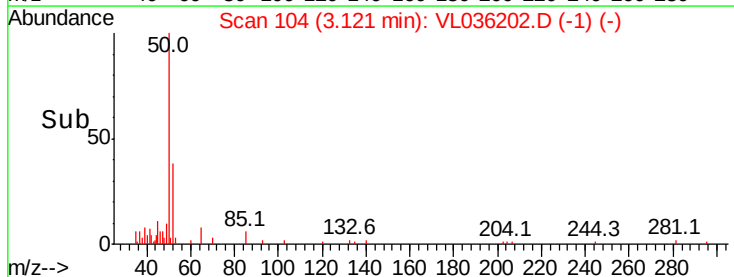
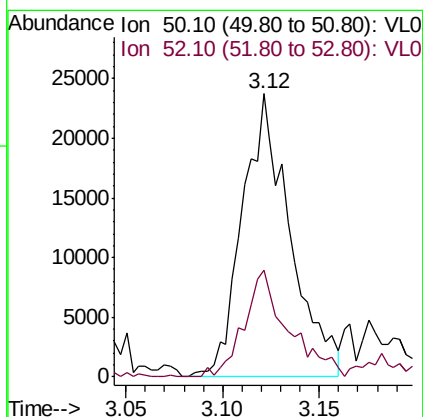
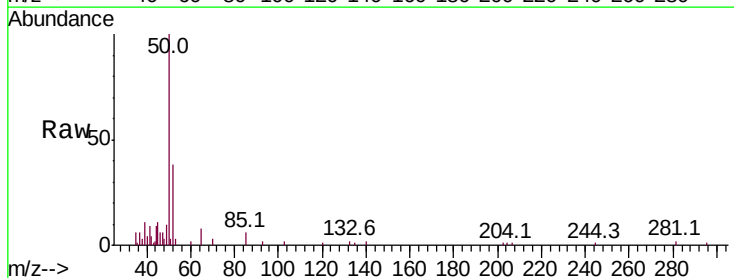
Acq: 23 Dec 2020 21:32

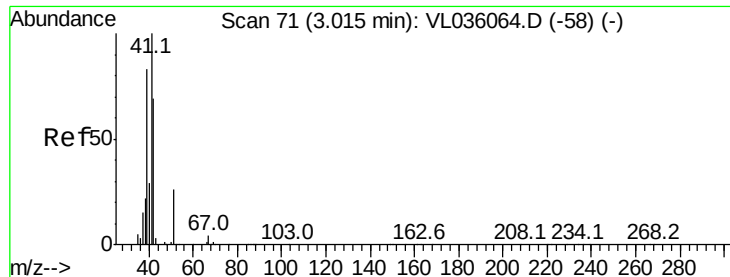
Tgt Ion: 50 Resp: 40748

Ion Ratio Lower Upper

50 100

52 37.6 26.1 39.1





#9

Propene

Concen: 1.906 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.02 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

Instrument :

MSVOA_L

ClientSampleId :

IIA2DUP

Tot Ion: 41 Resp: 147234

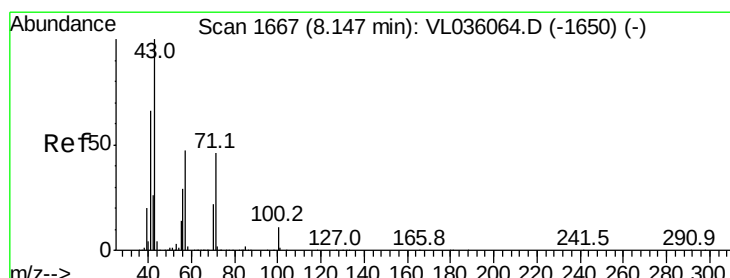
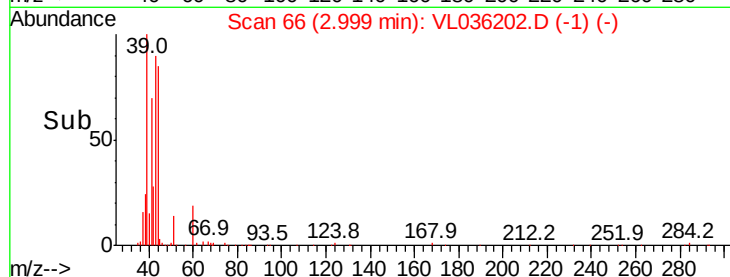
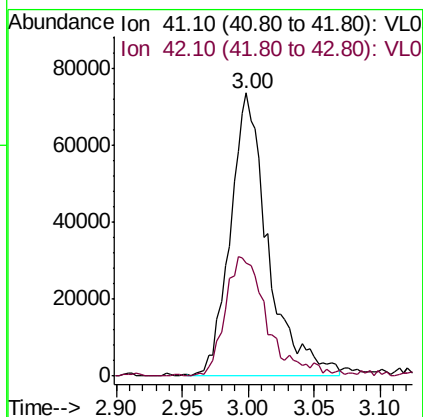
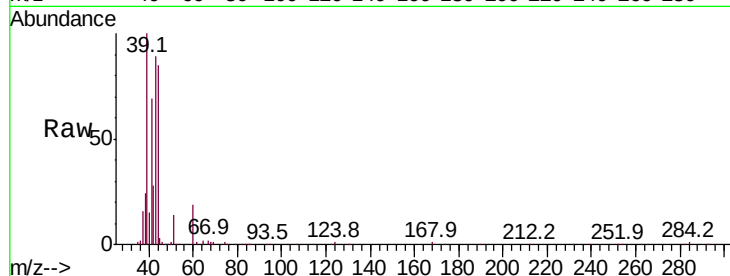
Ion Ratio Lower Upper

41 100

42 63.1 57.0 85.6

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#10

Heptane

Concen: 0.231 ppbv m

RT: 8.10 min Scan# 1651

Delta R.T. -0.05 min

Lab File: VL036202.D

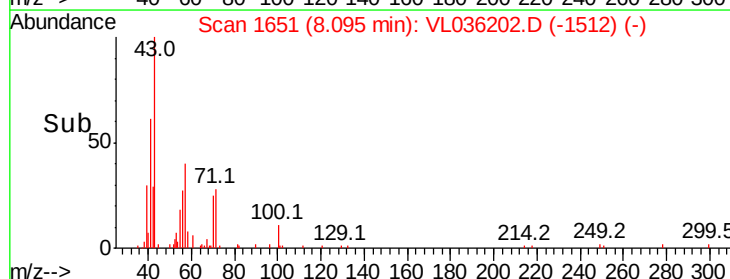
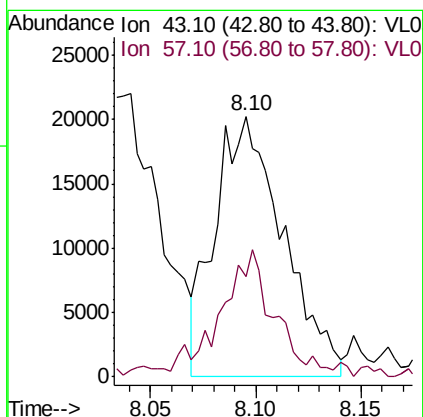
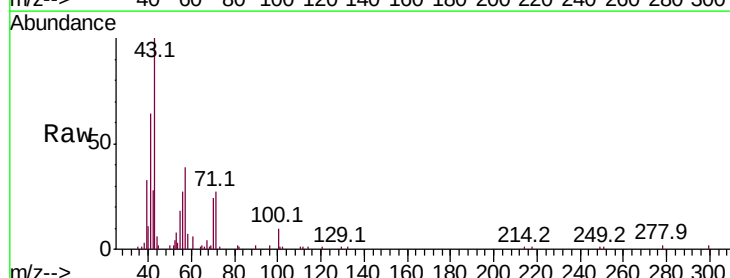
Acq: 23 Dec 2020 21:32

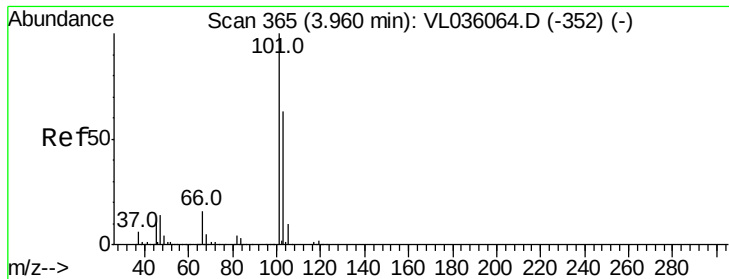
Tgt Ion: 43 Resp: 45584

Ion Ratio Lower Upper

43 100

57 0.0 37.9 56.9#





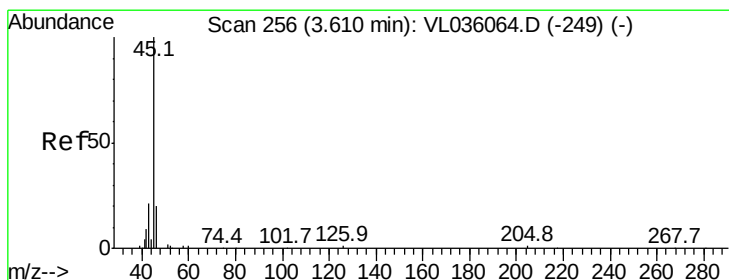
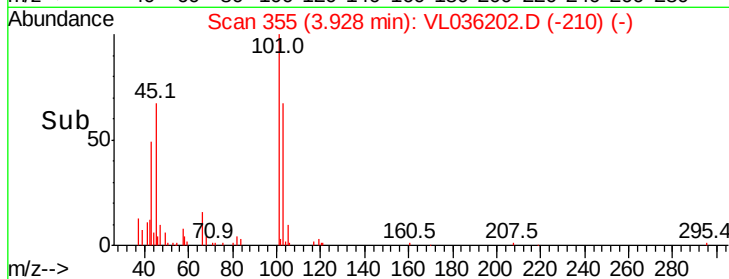
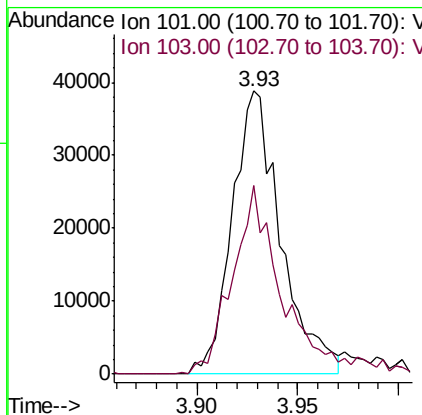
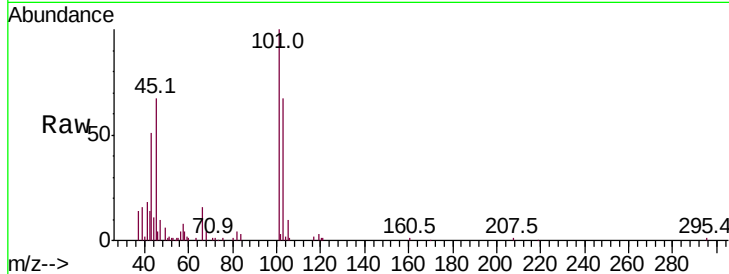
#11
Trichlorofluoromethane
Concen: 0.355 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.03 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Instrument :
MSVOA_L
ClientSampleId :
IIA2DUP

Tot Ion:101 Resp: 65753
Ion Ratio Lower Upper
101 100
103 66.7 50.3 75.5

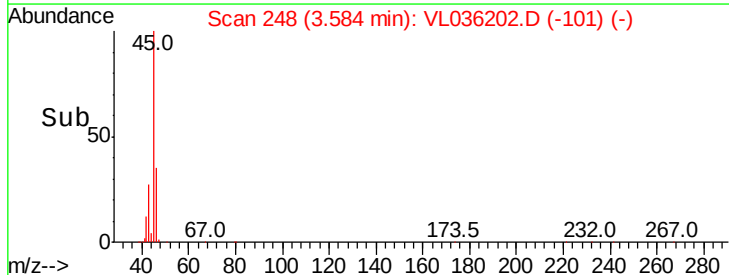
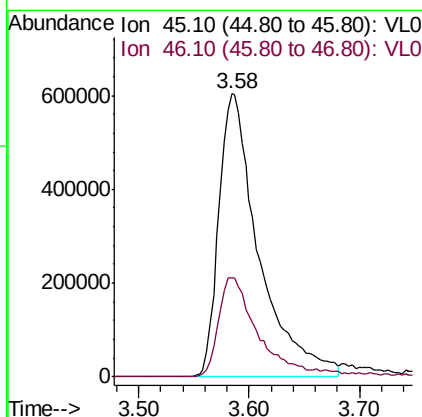
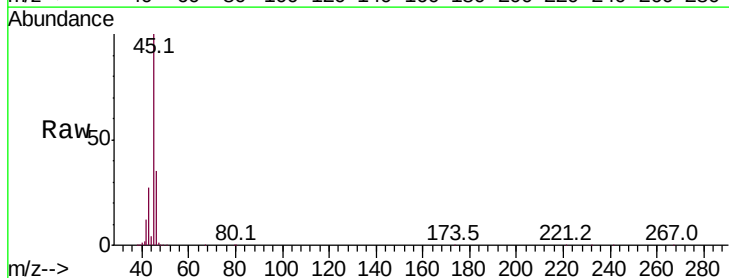
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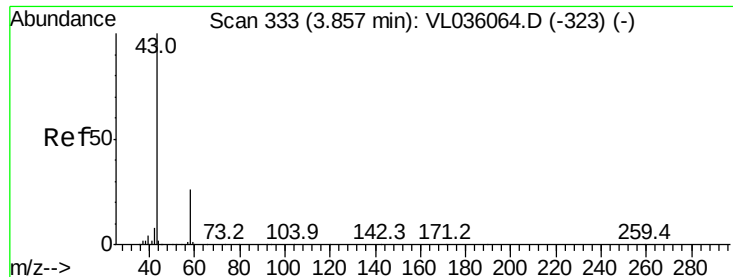
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#13
Ethanol
Concen: 142.941 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.03 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Tgt Ion: 45 Resp: 1521803
Ion Ratio Lower Upper
45 100
46 37.0 19.0 75.8





#15

Acetone

Concen: 4.469 ppbv m

RT: 3.83 min Scan# 324

Delta R.T. -0.03 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

Instrument :

MSVOA_L

ClientSampleId :

IIA2DUP

Tot Ion: 43 Resp: 725661

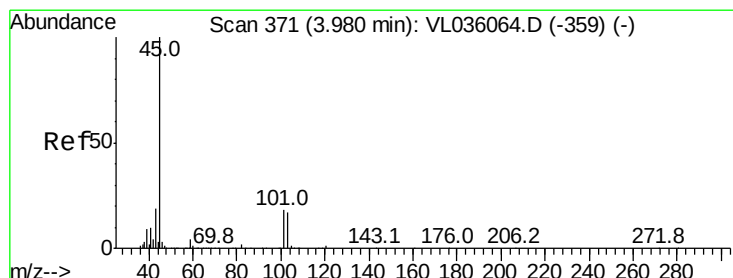
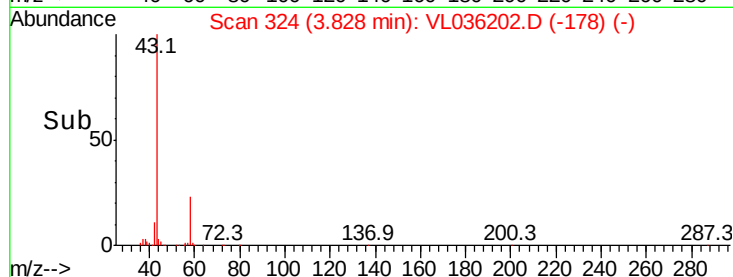
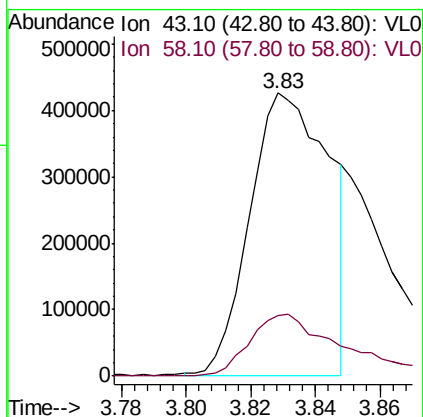
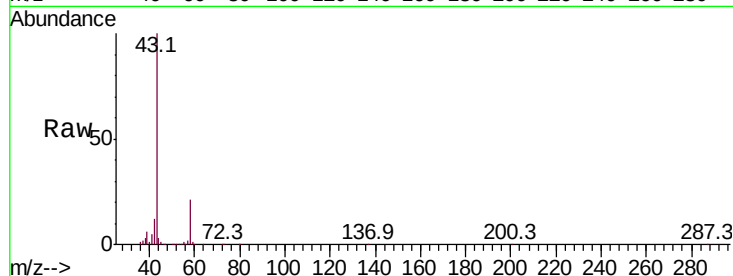
Ion Ratio Lower Upper

43 100

58 27.8 20.9 31.3

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#19

Isopropyl Alcohol

Concen: 9.304 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.03 min

Lab File: VL036202.D

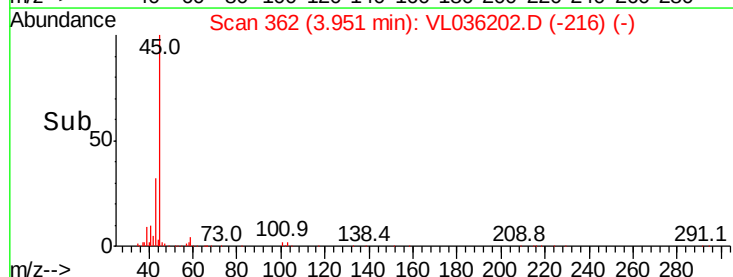
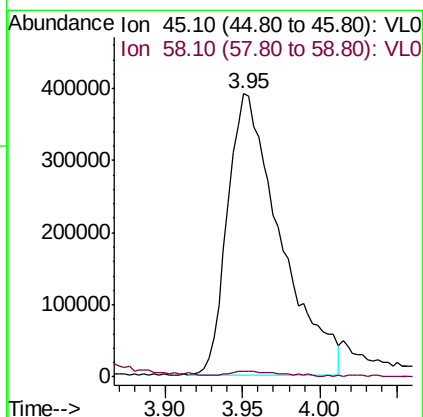
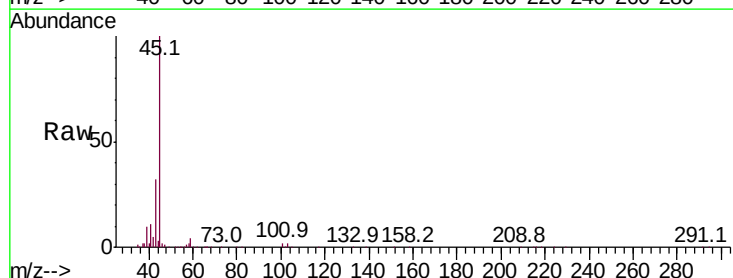
Acq: 23 Dec 2020 21:32

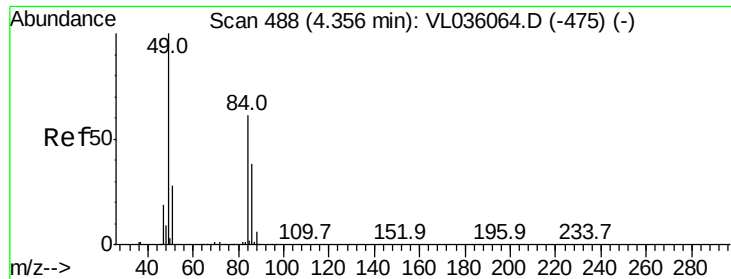
Tgt Ion: 45 Resp: 923498

Ion Ratio Lower Upper

45 100

58 3.0 0.0 0.0#





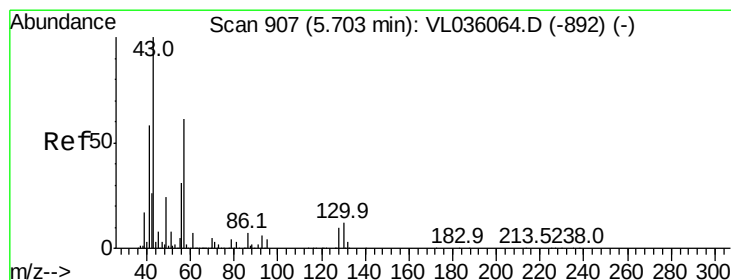
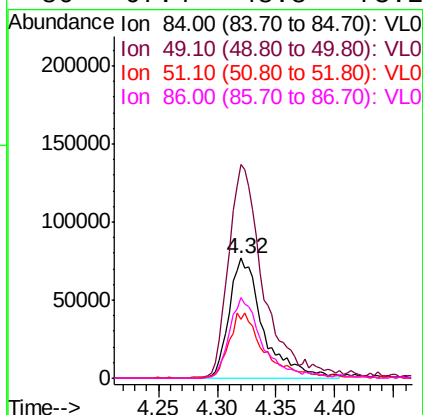
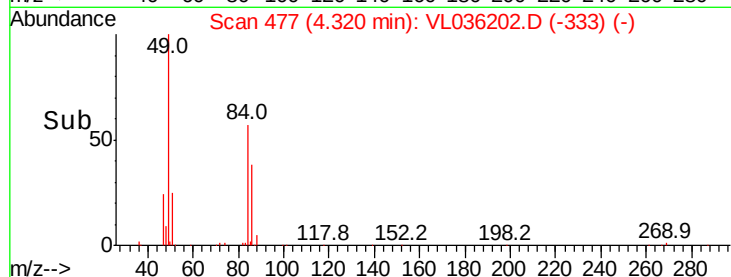
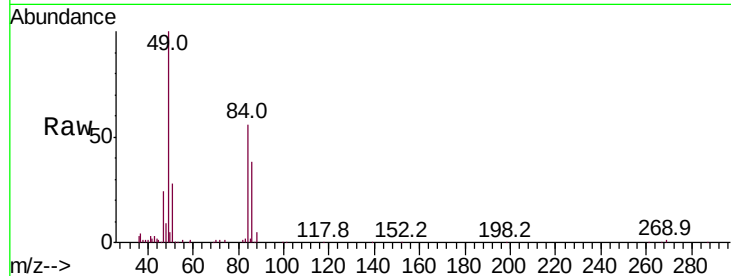
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Methvlene Chloride
Concen: 2.315 ppbv m
RT: 4.32 min Scan# 477
Delta R.T. -0.04 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Instrument :
MSVOA_L
ClientSampleId :
IIA2DUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	177.6	133.0	199.4		
51	48.9	38.9	58.3		
86	67.4	48.8	73.2		

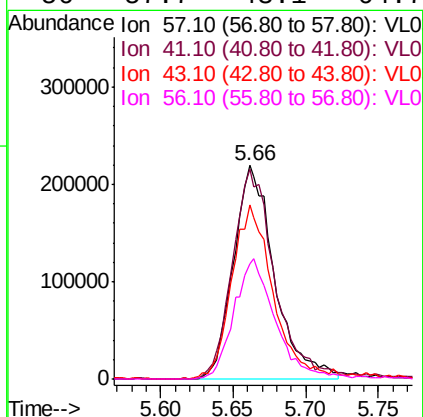
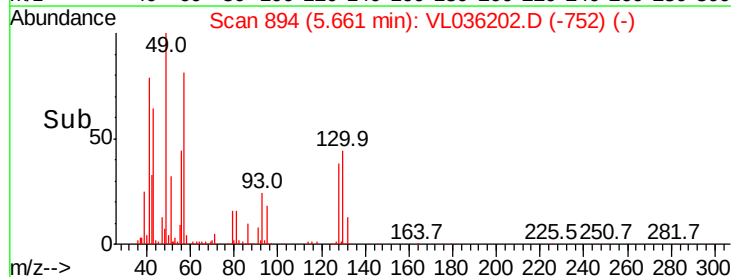
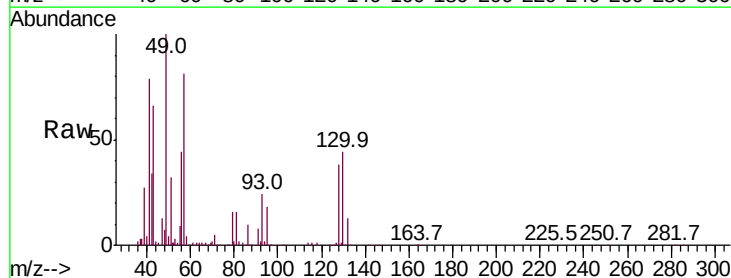
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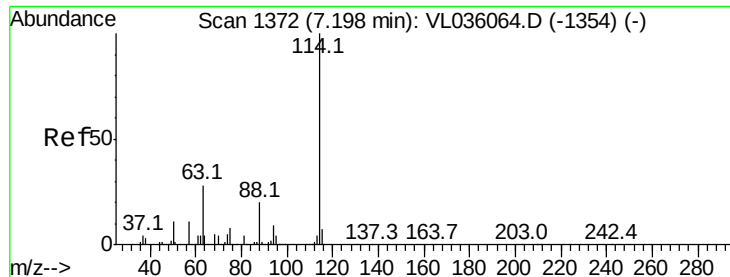
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#26
Hexane
Concen: 2.962 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.04 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	103.7	82.9	124.3		
43	84.6	199.9	299.9#		
56	57.7	43.1	64.7		





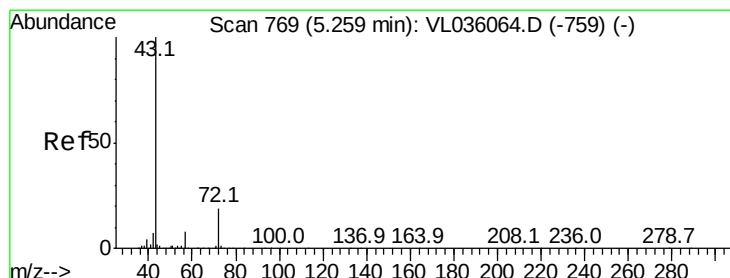
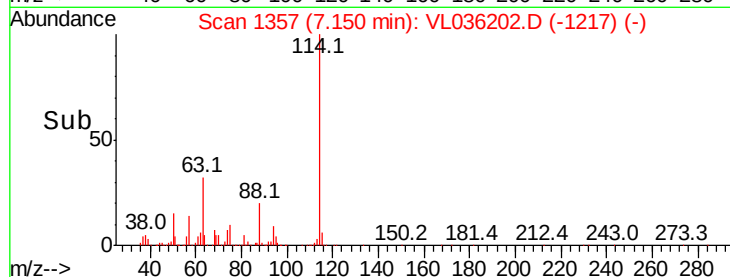
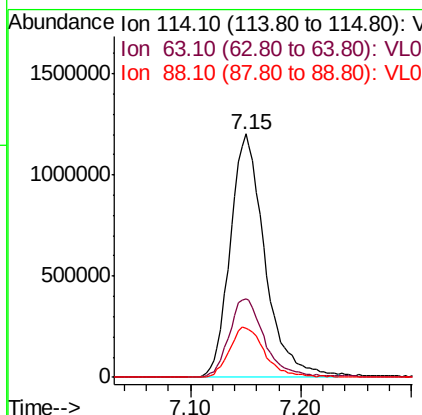
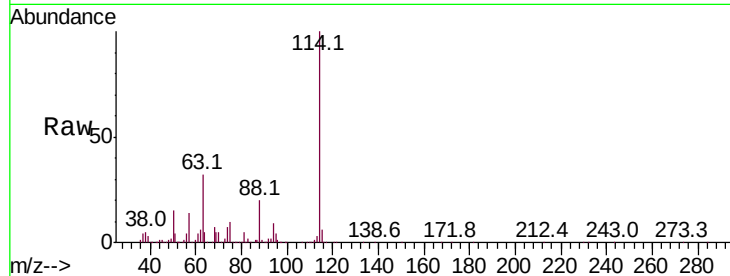
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.05 min
 Lab File: VL036202.D
 Acq: 23 Dec 2020 21:32

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA2DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.7	23.6	35.4
88	21.2	15.8	23.6

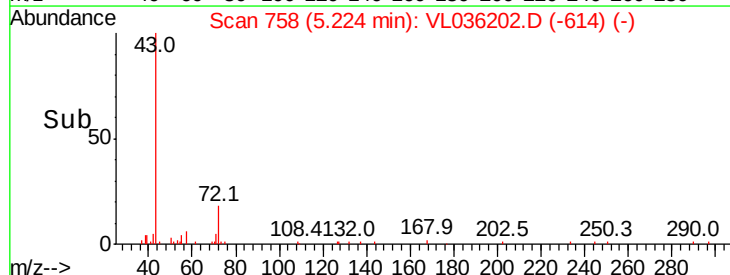
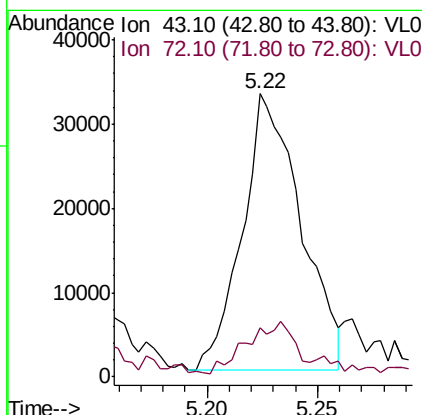
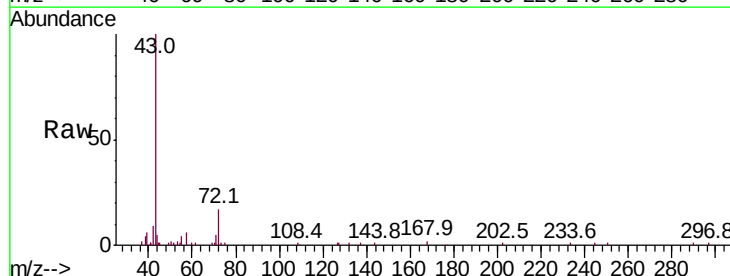
Manual Integrations
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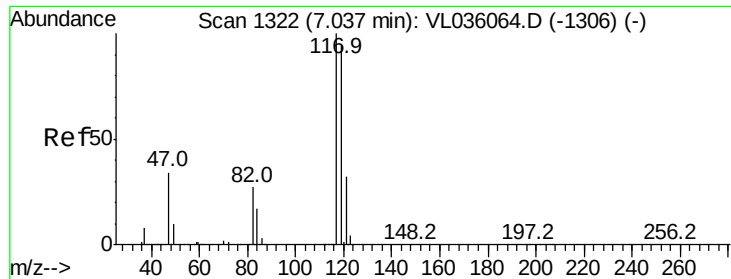
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#34
 2-Butanone
 Concen: 0.346 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.04 min
 Lab File: VL036202.D
 Acq: 23 Dec 2020 21:32

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	16.5	24.7





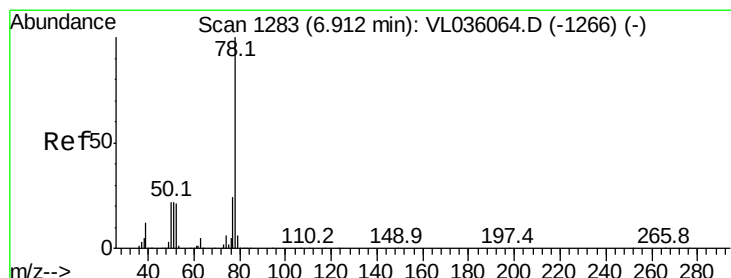
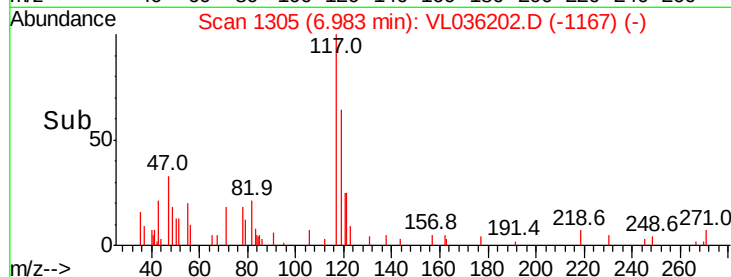
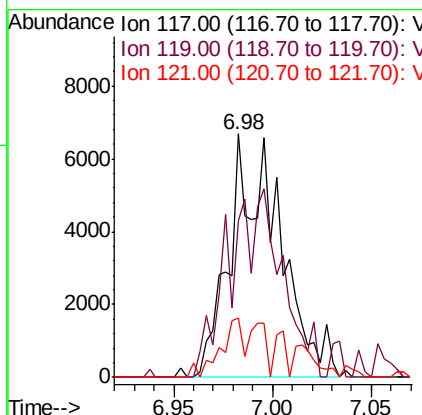
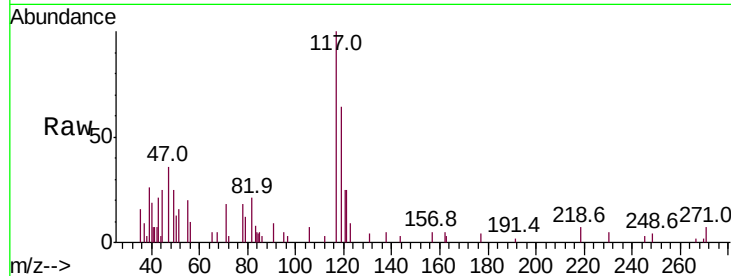
#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.98 min Scan# 1305
Delta R.T. -0.05 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Instrument :
MSVOA_L
ClientSampleId :
IIA2DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	64.4	75.1	112.7#
121	24.6	25.6	38.4#

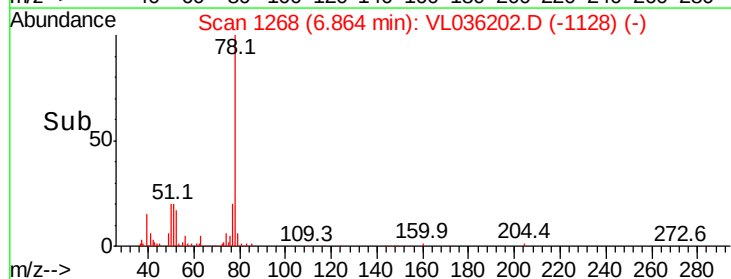
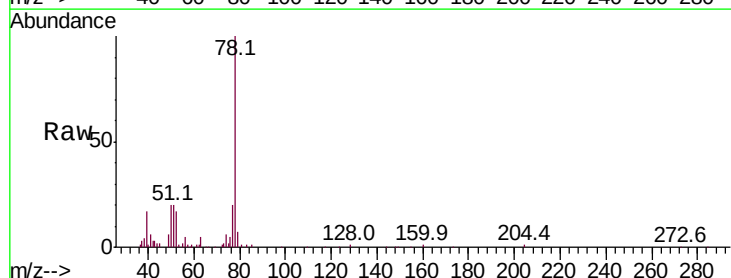
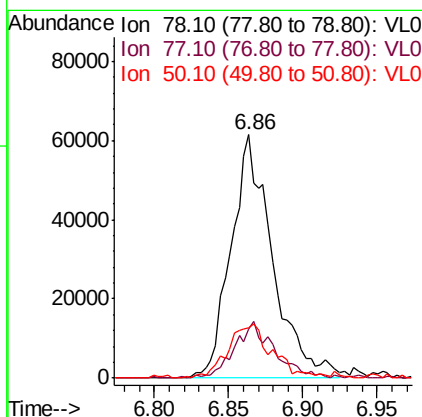
Manual Integrations
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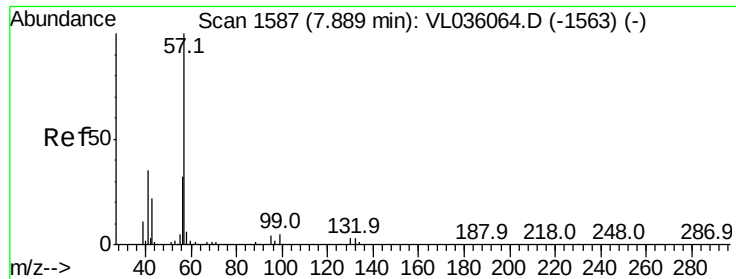
MMDadoda
12/26/2020 1:36:43 PM



#36
Benzene
Concen: 0.537 ppbv m
RT: 6.86 min Scan# 1268
Delta R.T. -0.05 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.2	19.4	29.2
50	20.5	17.8	26.8





#44

2,2,4-Trimethylpentane

Concen: 0.277 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.05 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

Instrument :

MSVOA_L

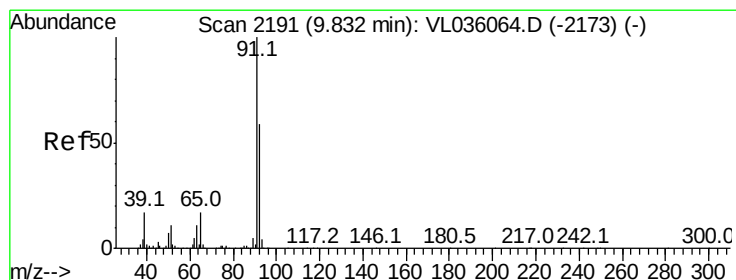
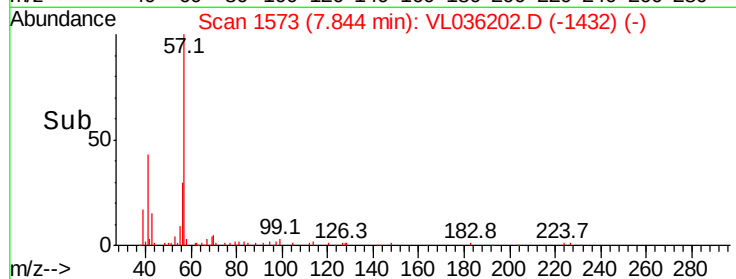
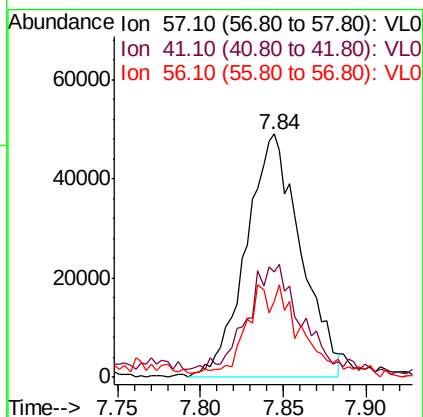
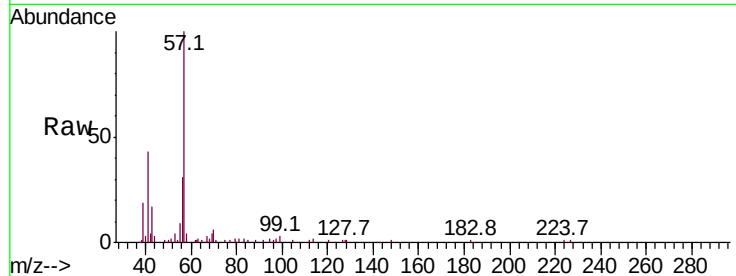
ClientSampleId :

IIA2DUP

Tot Ion:	57	Resp:	111593
Ion Ratio		Lower	Upper
57	100		
41	53.9	28.9	43.3#
56	39.9	25.3	37.9#

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12/26/2020 1:36:43 PM



#53

Toluene

Concen: 1.264 ppbv

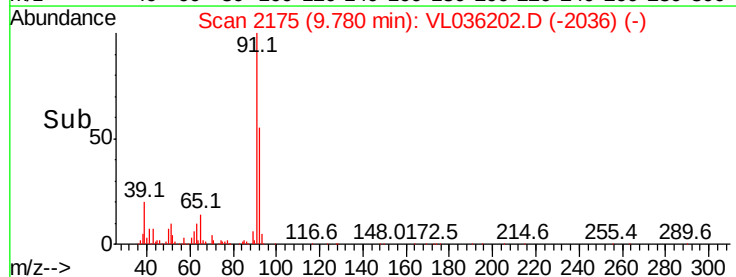
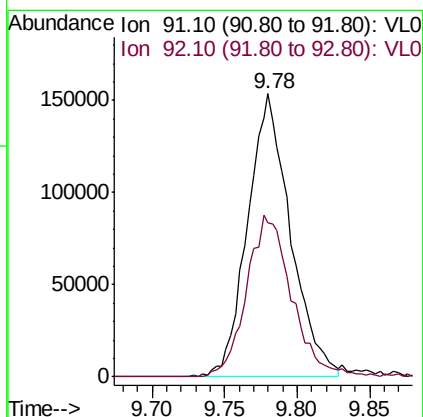
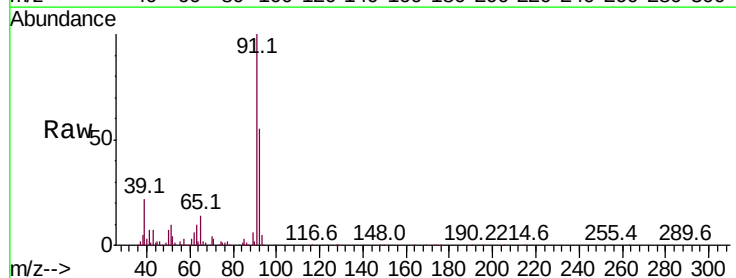
RT: 9.78 min Scan# 2175

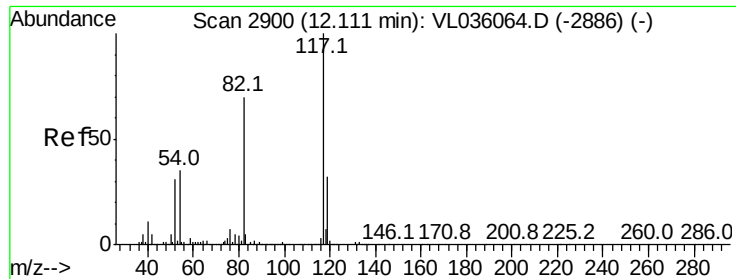
Delta R.T. -0.05 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

Tgt Ion:	91	Resp:	315410
Ion Ratio		Lower	Upper
91	100		
92	60.1	48.2	72.2





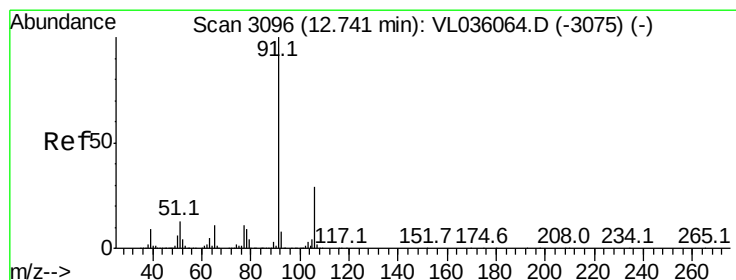
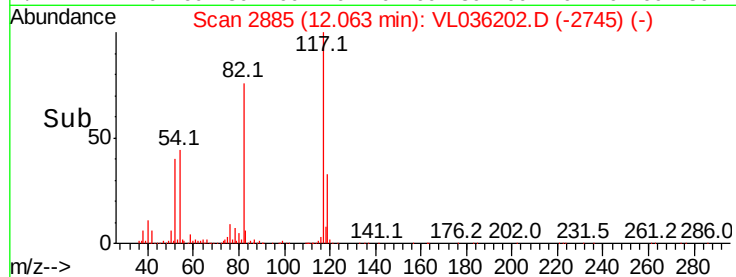
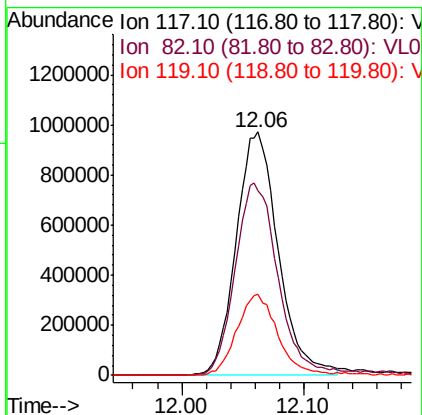
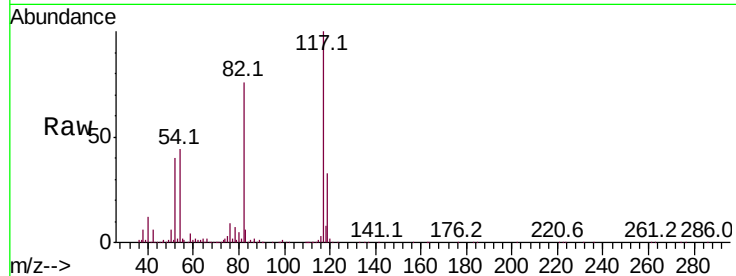
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.05 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Instrument :
MSVOA_L
ClientSampleId :
IIA2DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	82.3	0.0	0.0#
119	33.0	0.0	0.0#

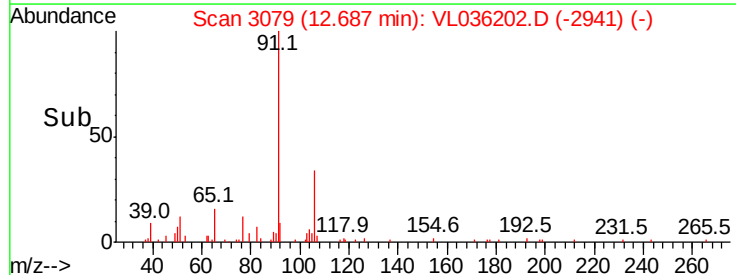
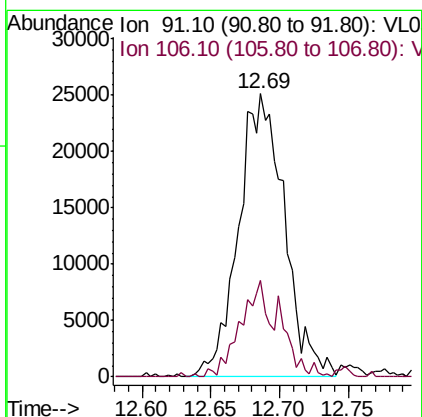
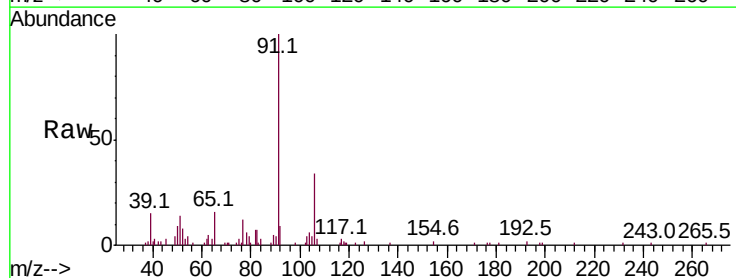
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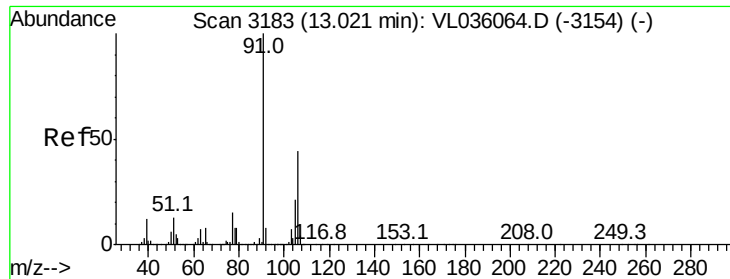
MMDadoda
12/26/2020 1:36:43 PM



#58
Ethyl Benzene
Concen: 0.184 ppbv m
RT: 12.69 min Scan# 3079
Delta R.T. -0.05 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.2	23.0	34.4





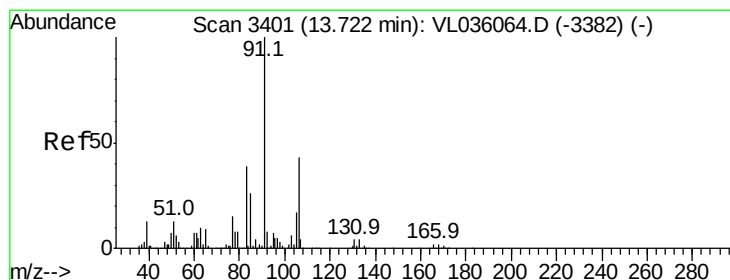
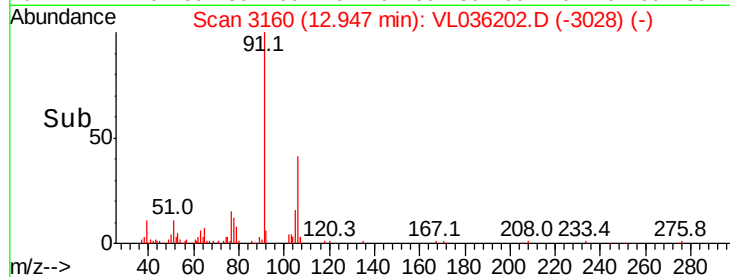
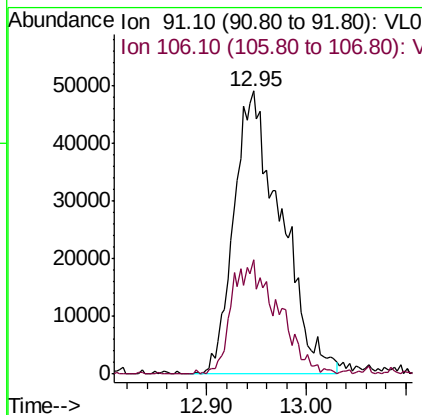
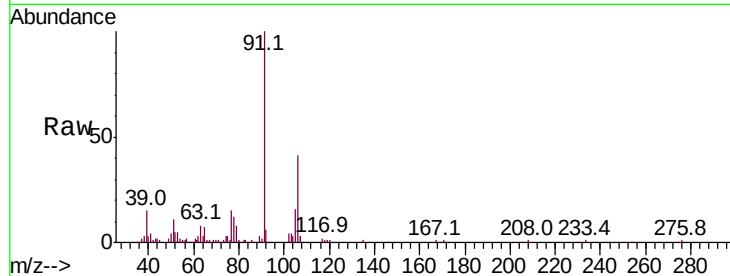
#59
m/p-Xylene
Concen: 0.601 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.07 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Instrument :
MSVOA_L
ClientSampleId :
IIA2DUP

Tot Ion: 91 Resp: 160420
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#

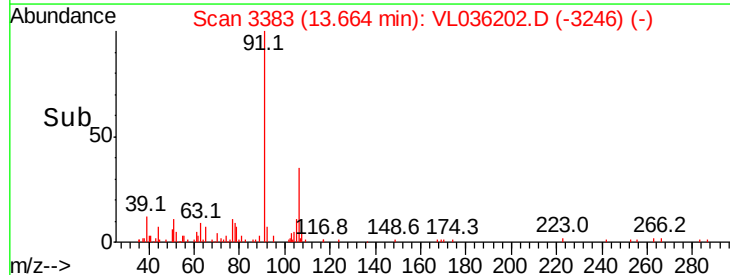
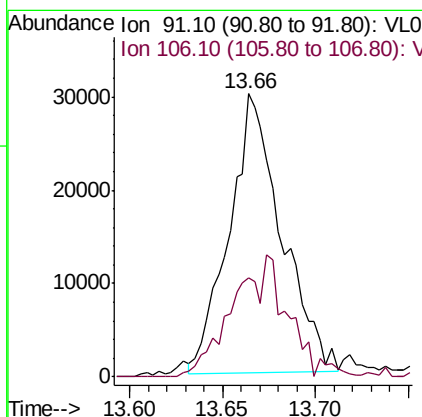
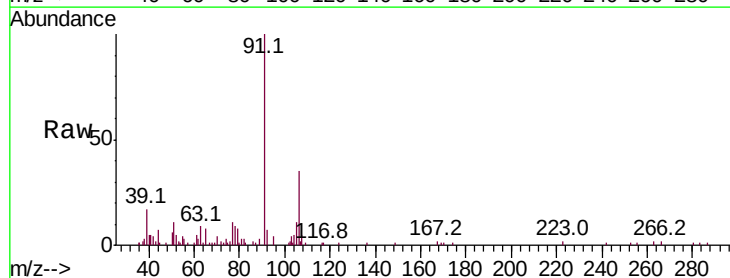
Manual Integrations
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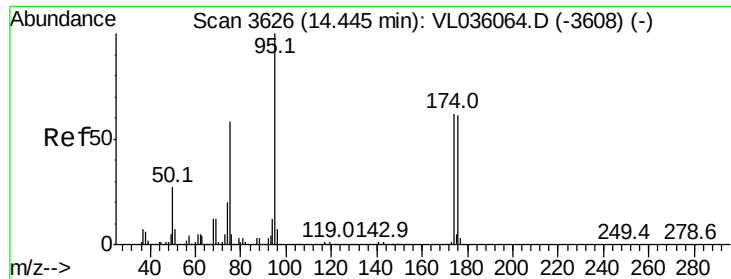
MMDadoda
12/26/2020 1:36:43 PM



#60
o-Xylene
Concen: 0.233 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.06 min
Lab File: VL036202.D
Acq: 23 Dec 2020 21:32

Tgt Ion: 91 Resp: 58614
Ion Ratio Lower Upper
91 100
106 46.5 21.6 64.6





#68

1-Bromo-4-Fluorobenzene

Concen: 11.312 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.05 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

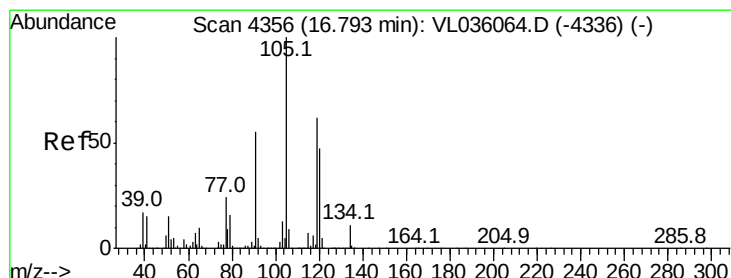
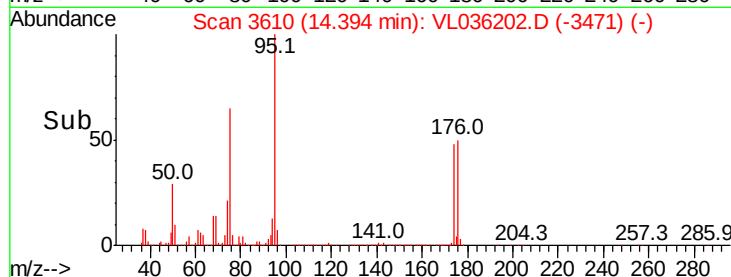
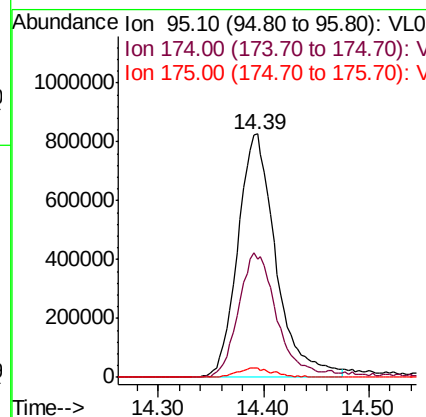
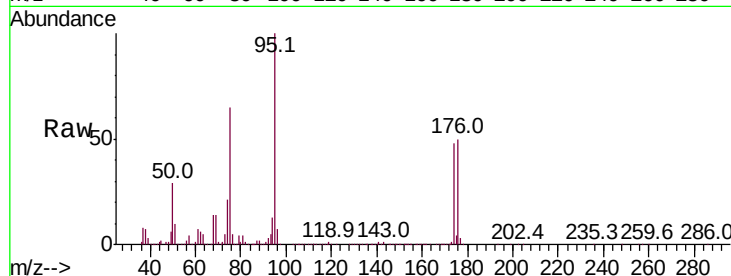
Instrument :
MSVOA_L
ClientSampled :
IIA2DUP

Tot Ion: 95 Resp: 2075655

Ion	Ratio	Lower	Upper
95	100		
174	53.0	50.7	76.1
175	3.7	4.0	6.0#

Manual Integrations
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12/26/2020 1:36:43 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.199 ppbv m

RT: 16.74 min Scan# 4339

Delta R.T. -0.05 min

Lab File: VL036202.D

Acq: 23 Dec 2020 21:32

Tgt Ion: 105 Resp: 51867

Ion	Ratio	Lower	Upper
105	100		
120	35.8	37.4	56.0#
91	9.9	45.6	68.4#
77	14.4	19.4	29.2#

