

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050720\
 Data File : VL034972.D
 Acq On : 7 May 2020 17:51
 Operator : SY/AP
 Sample : L2524-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA2

Manual Integrations
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 5/8/2020 5:22:39 PM

Quant Time: May 08 15:23:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1022877	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2345396	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2134344	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.46	95	1766884	10.23	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	40795	0.281	ppbv	91
3) Chlorodifluoromethane	2.96	51	32083m	0.275	ppbv	
4) Chloromethane	3.11	50	35370	0.528	ppbv	96
11) Trichlorofluoromethane	3.93	101	33070	0.221	ppbv	98
13) Ethanol	3.59	45	1304799	78.028	ppbv	100
15) Acetone	3.83	43	1564880	11.572	ppbv	100
19) Isopropyl Alcohol	3.96	45	8627017	95.662	ppbv #	98
20) Methylene Chloride	4.33	84	81578	1.822	ppbv	92
26) Hexane	5.69	57	165050	1.676	ppbv #	50
34) 2-Butanone	5.24	43	414650	2.845	ppbv	97
35) Carbon Tetrachloride	7.04	117	7964m	0.054	ppbv	
41) Tetrahydrofuran	6.06	42	79414	1.035	ppbv	98
53) Toluene	9.84	91	290502	1.417	ppbv	99
59) m/p-Xylene	13.00	91	26508m	0.114	ppbv	

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

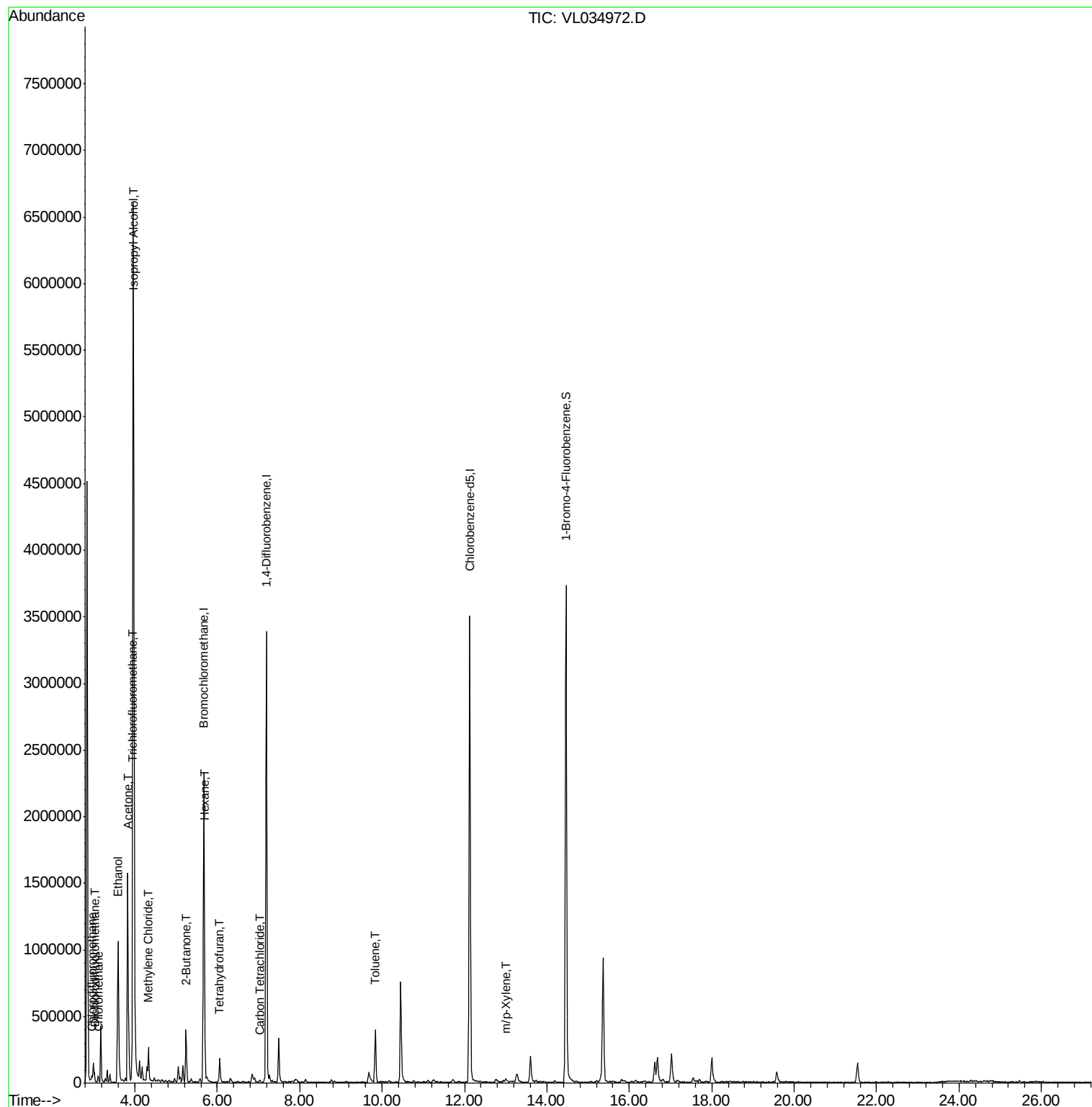
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050720\
Data File : VL034972.D
Acq On : 7 May 2020 17:51
Operator : SY/AP
Sample : L2524-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

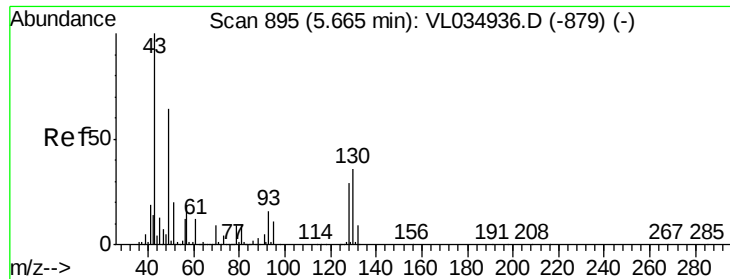
Instrument :
MSVOA_L
ClientSampleId :
IIA2

Quant Time: May 08 15:23:38 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

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#1

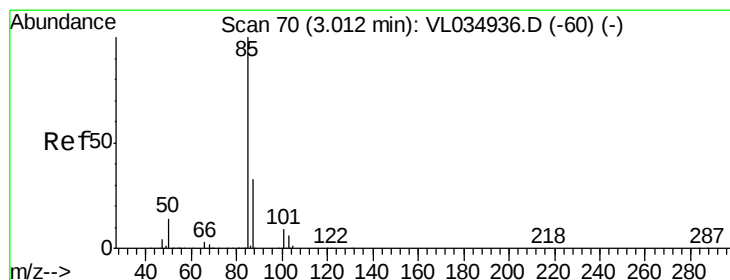
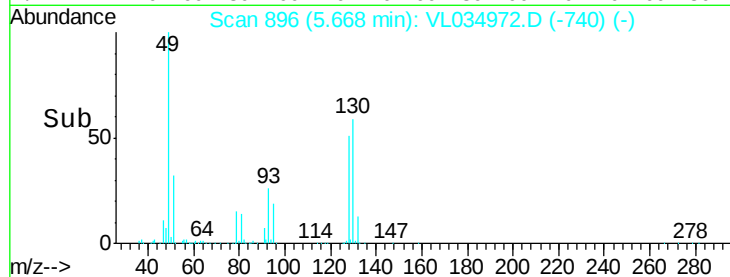
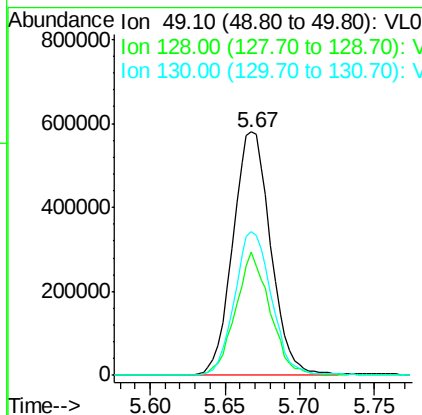
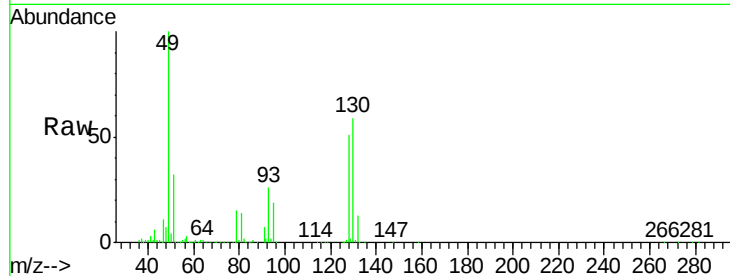
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Instrument :
MSVOA_L
ClientSampled :
IIA2

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.4	22.1	66.5
130	58.2	29.1	87.3

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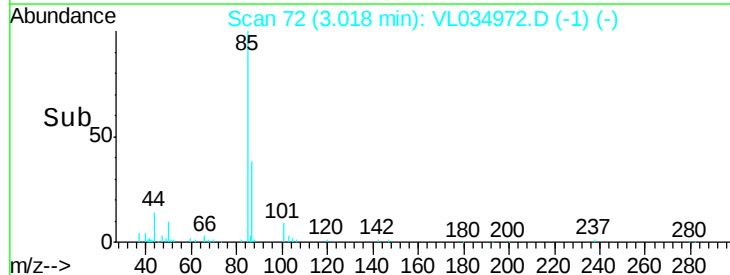
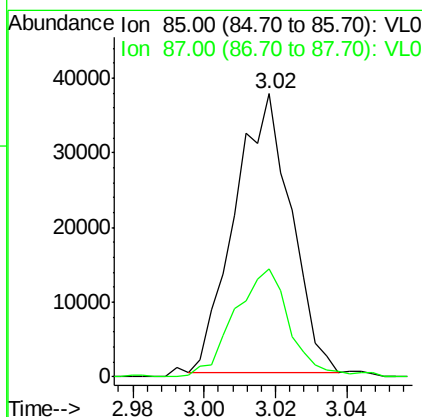
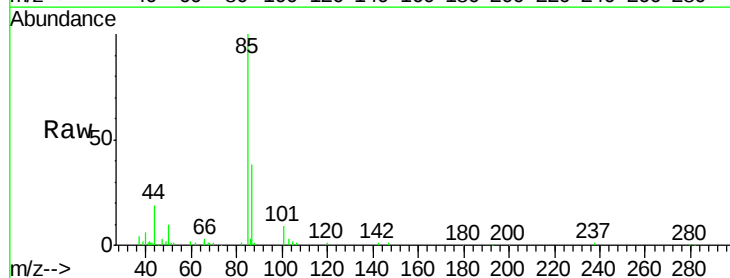
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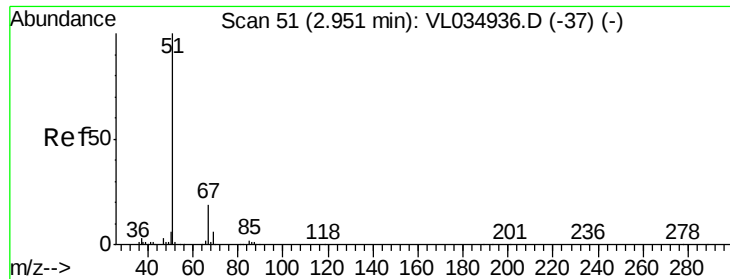


#2

Dichlorodifluoromethane
Concen: 0.281 ppbv
RT: 3.02 min Scan# 72
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Tgt Ion	Ratio	Lower	Upper
85	100		
87	38.0	26.2	39.2





#3

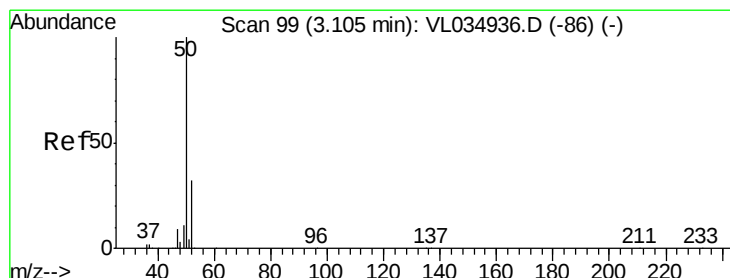
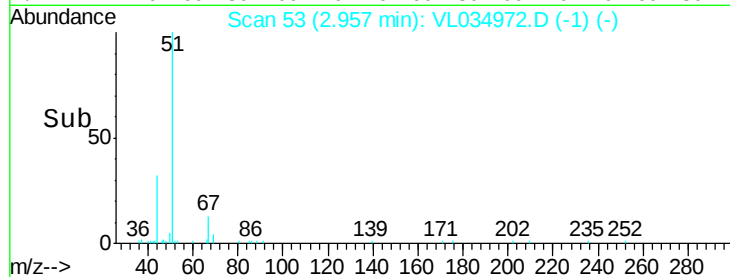
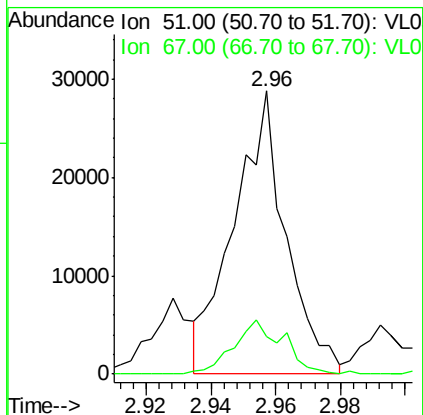
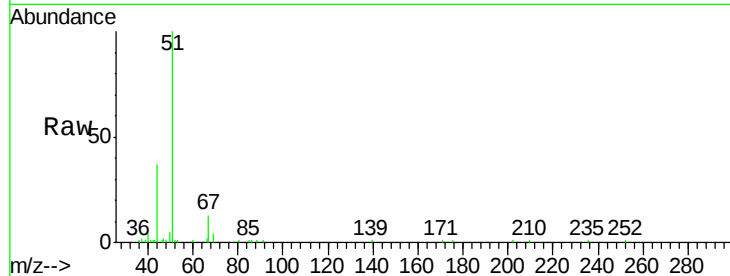
Chlorodifluoromethane
Concen: 0.275 ppbv
RT: 2.96 min Scan# 53
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Instrument :
MSVOA_L
ClientSampled :
IIA2

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.6	15.0	22.6

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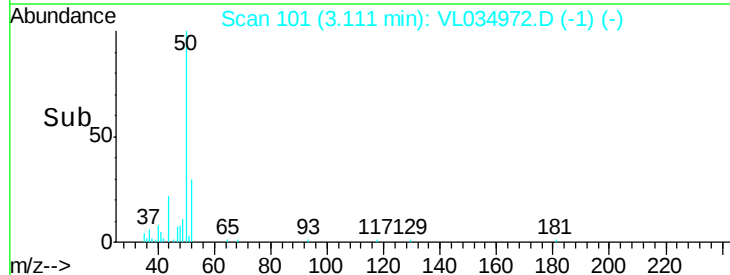
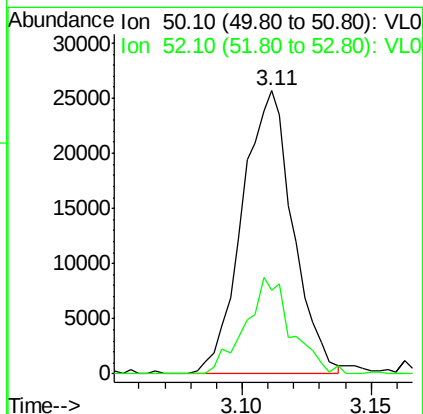
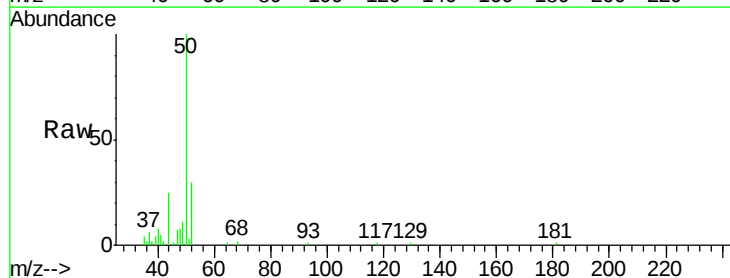
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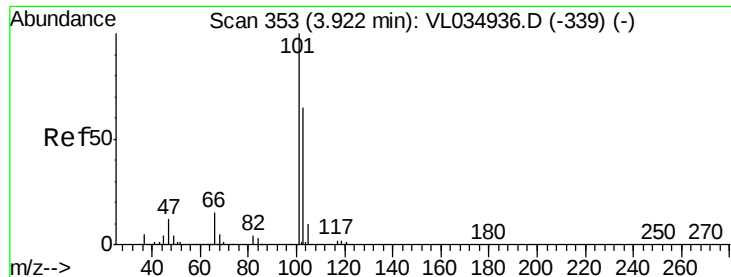


#4

Chloromethane
Concen: 0.528 ppbv
RT: 3.11 min Scan# 101
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.7	25.4	38.2





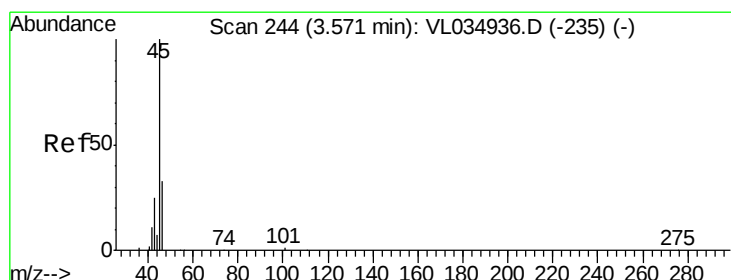
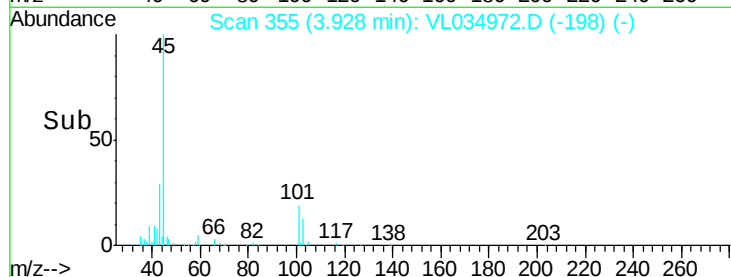
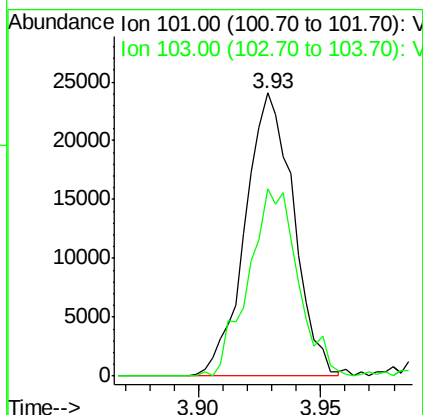
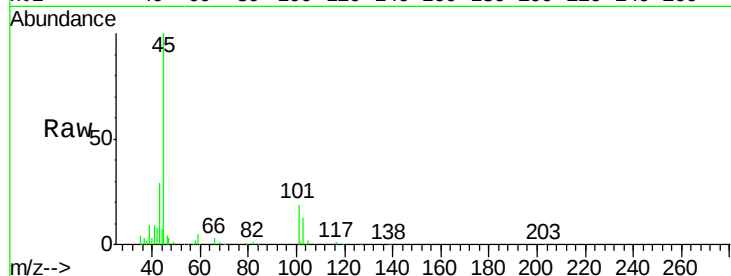
#11
 Trichlorofluoromethane
 Concen: 0.221 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VL034972.D
 Acq: 7 May 2020 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		33070		
103	66.3	51.9	77.9		

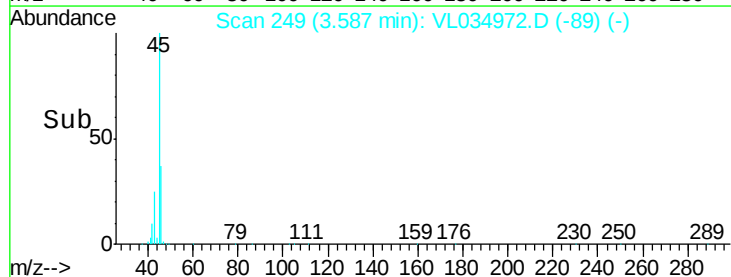
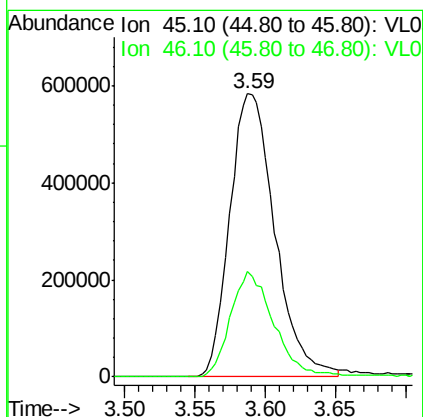
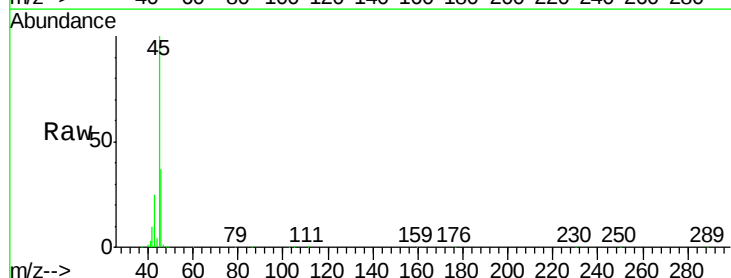
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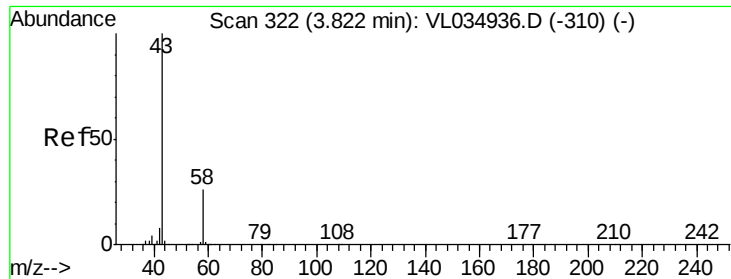
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#13
 Ethanol
 Concen: 78.028 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. 0.02 min
 Lab File: VL034972.D
 Acq: 7 May 2020 17:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		1304799		
46	36.1	14.3	57.3		





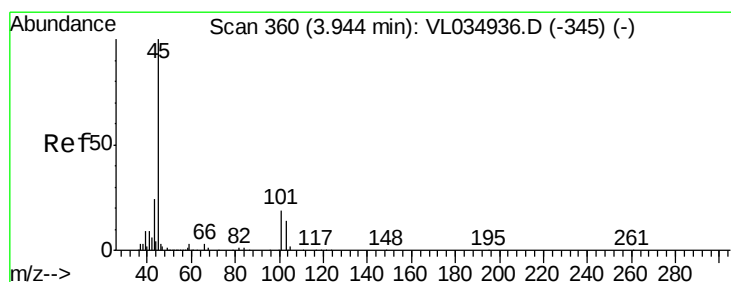
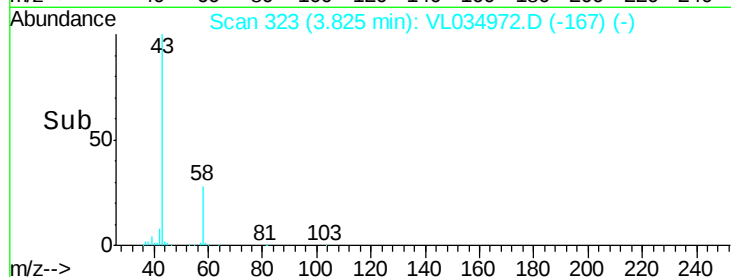
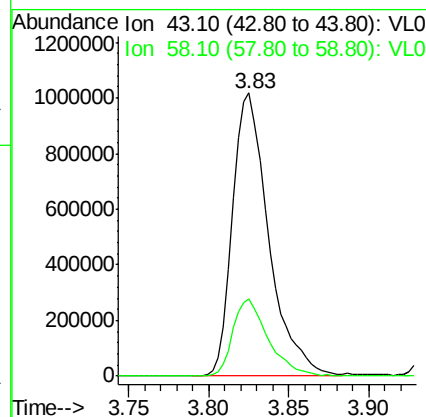
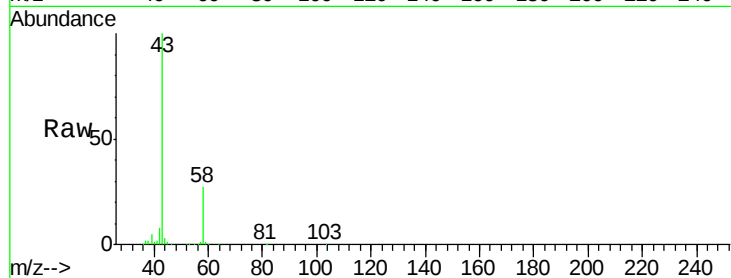
#15
Acetone
Concen: 11.572 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.00 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Instrument :
MSVOA_L
ClientSampled :
IIA2

Tot Ion: 43 Resp: 1564880
Ion Ratio Lower Upper
43 100
58 26.9 21.7 32.5

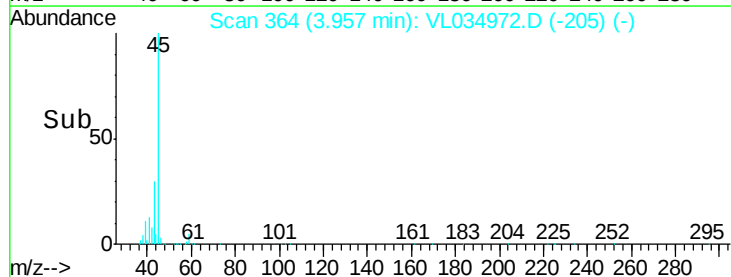
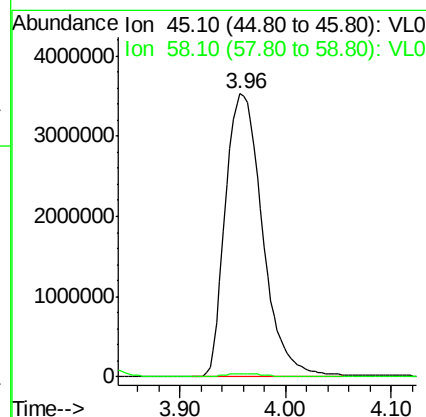
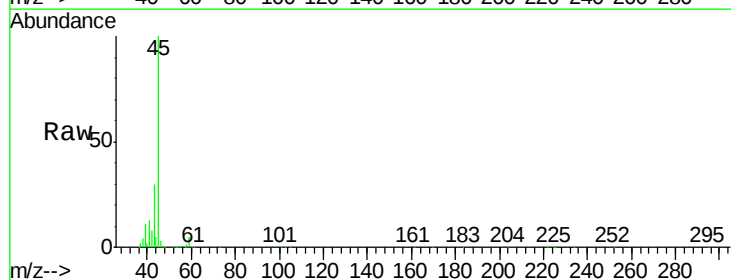
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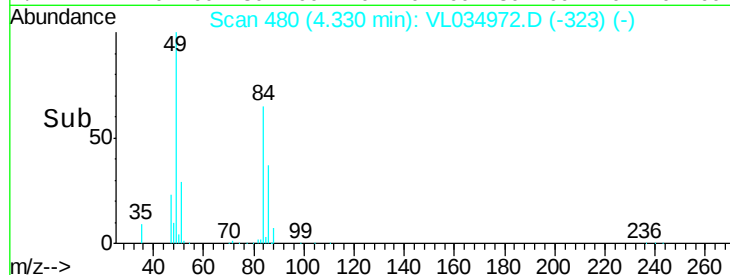
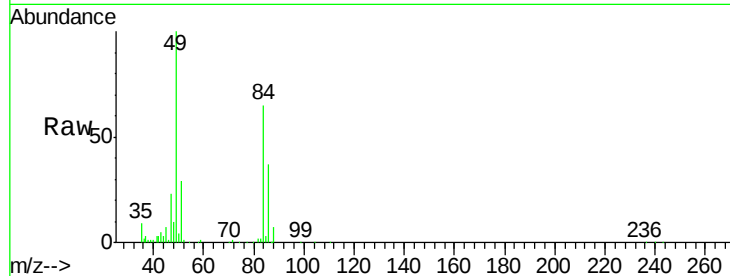
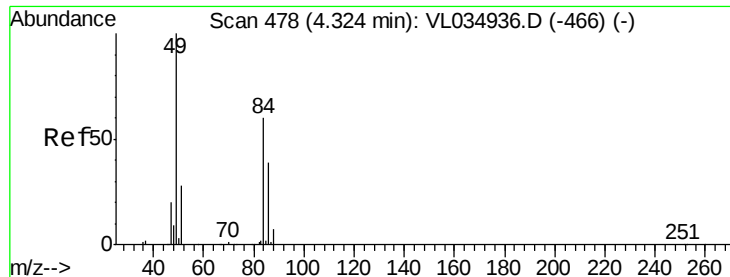
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#19
Isopropyl Alcohol
Concen: 95.662 ppbv
RT: 3.96 min Scan# 364
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Tgt Ion: 45 Resp: 8627017
Ion Ratio Lower Upper
45 100
58 1.3 1.7 2.5#





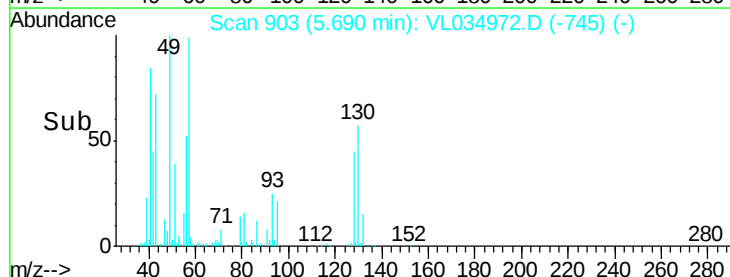
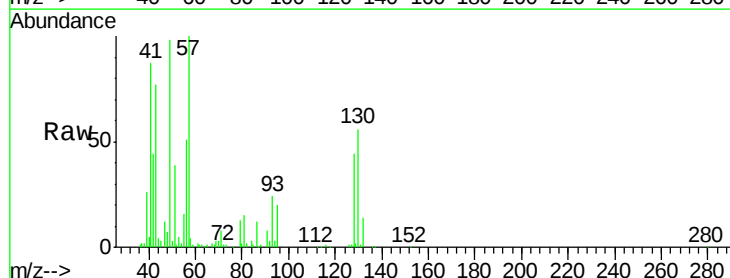
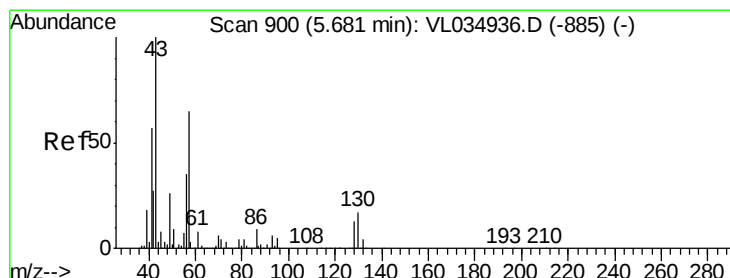
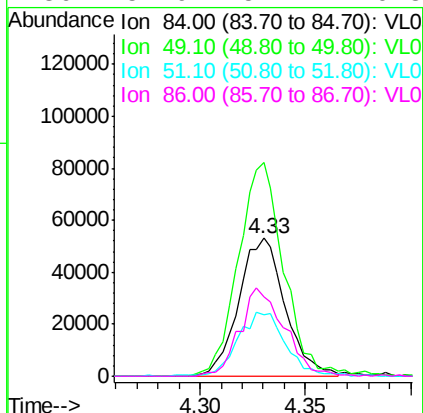
#20
Methvlene Chloride
Concen: 1.822 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Tot Ion:	84	Resp:	81578
Ion Ratio	Lower	Upper	
84	100		
49	154.3	132.5	198.7
51	42.9	38.4	57.6
86	57.9	51.2	76.8

Instrument :
MSVOA_L
ClientSampled :
IIA2

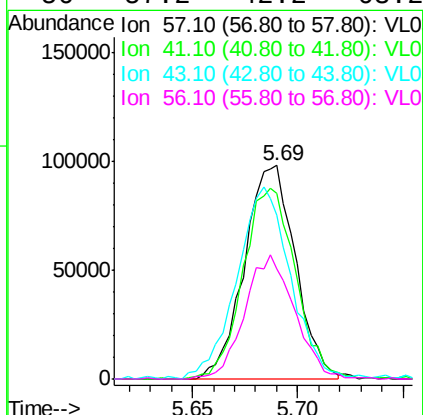
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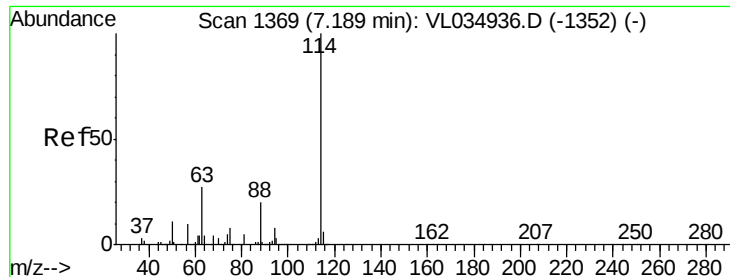
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#26
Hexane
Concen: 1.676 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Tgt Ion:	57	Resp:	165050
Ion Ratio	Lower	Upper	
57	100		
41	92.3	72.7	109.1
43	97.0	182.1	273.1#
56	57.2	42.2	63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VL034972.D

Acq: 7 May 2020 17:51

Instrument :

MSVOA_L

ClientSampleId :

IIA2

Tot Ion:114 Resp: 2345396

Ion Ratio Lower Upper

114 100

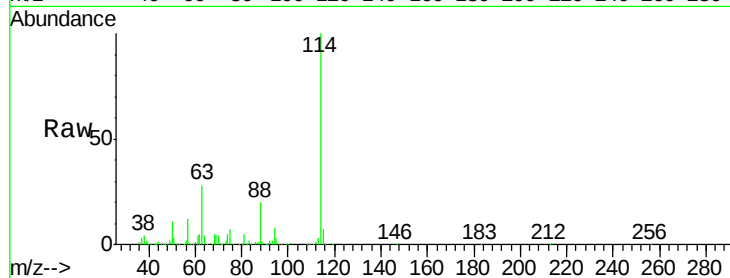
63 27.4 22.2 33.4

88 19.2 15.5 23.3

Manual Integrations
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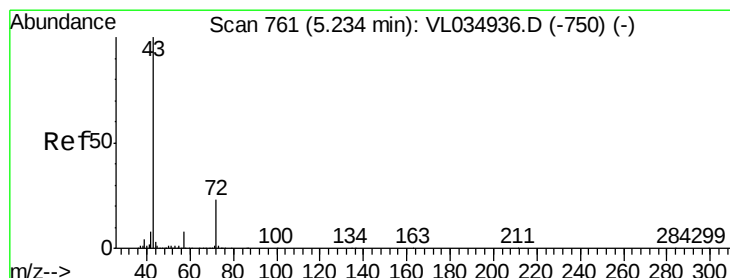
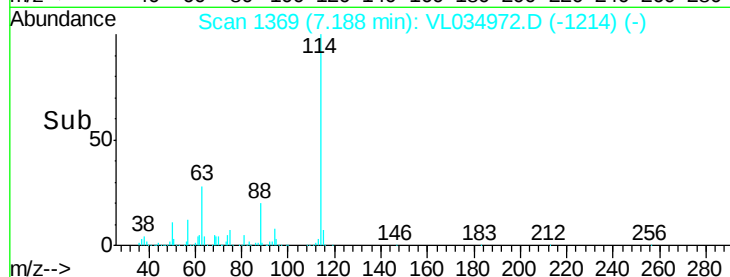
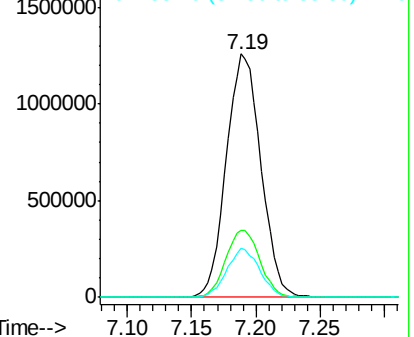
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 2.845 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.00 min

Lab File: VL034972.D

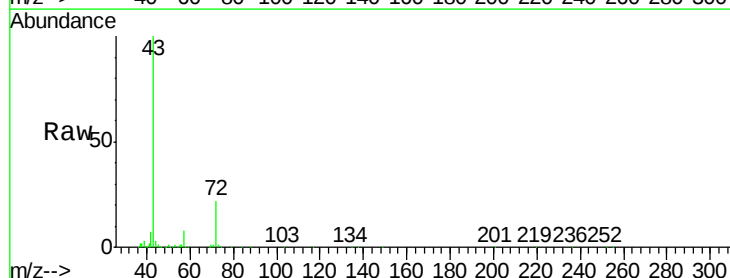
Acq: 7 May 2020 17:51

Tgt Ion: 43 Resp: 414650

Ion Ratio Lower Upper

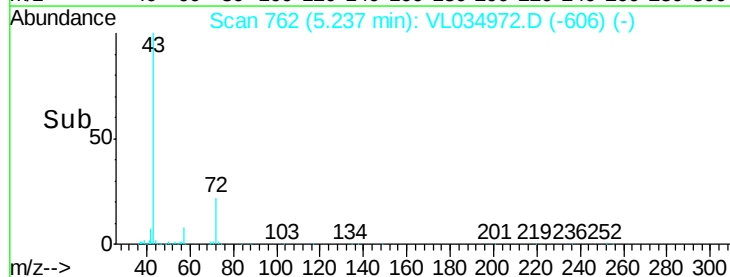
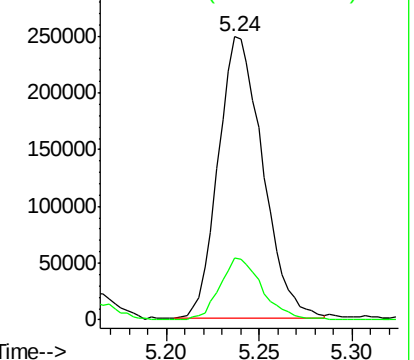
43 100

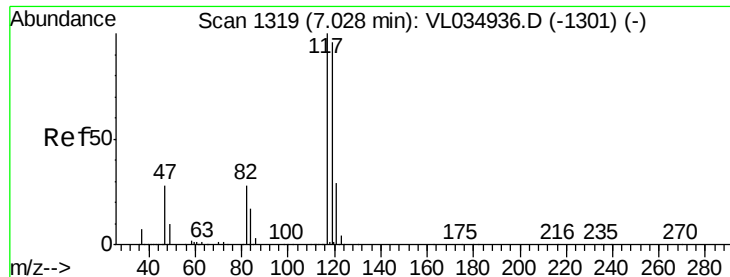
72 21.1 18.0 27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





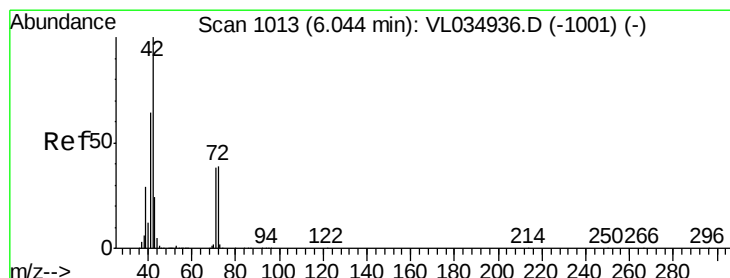
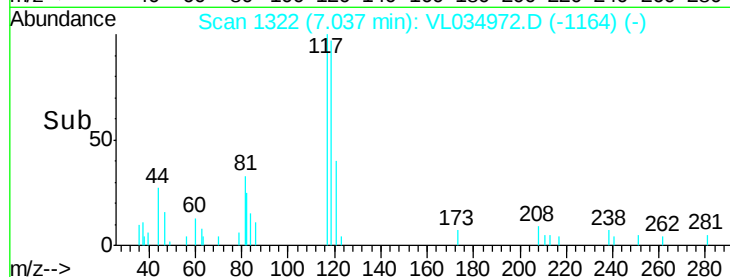
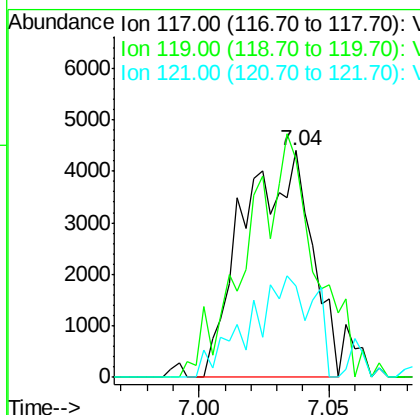
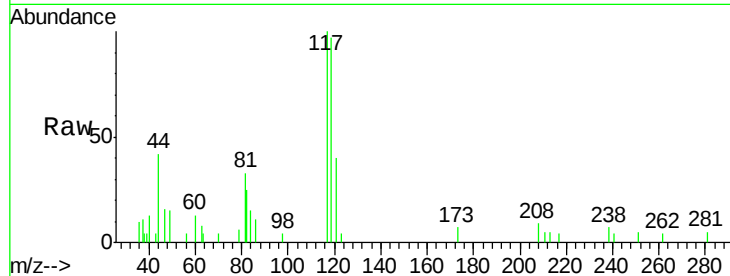
#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 7.04 min Scan# 1322
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Instrument :
MSVOA_L
ClientSampleId :
IIA2

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.0	115.6
121	40.1	23.0	34.6

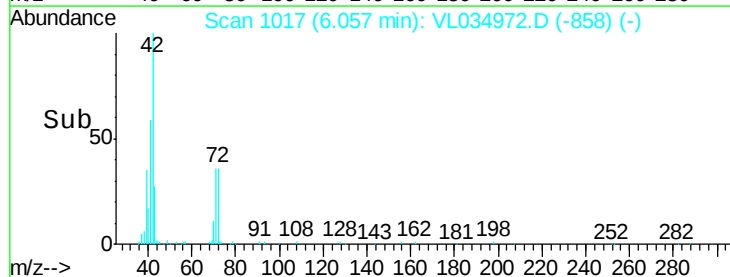
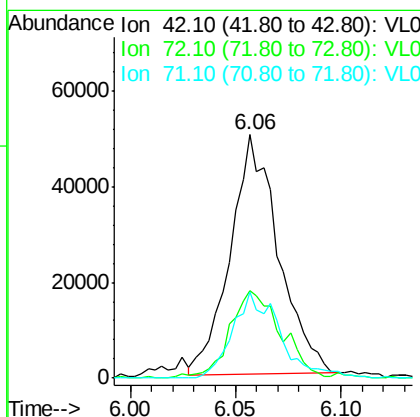
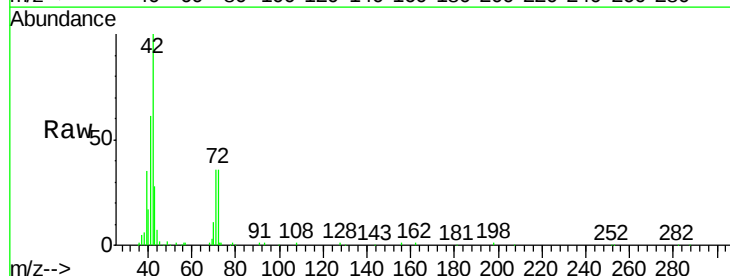
Manual Integrations
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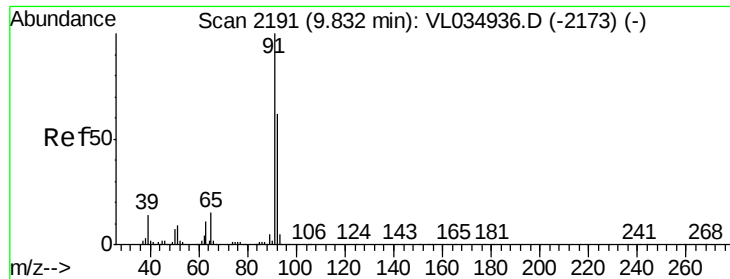
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#41
Tetrahydrofuran
Concen: 1.035 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VL034972.D
Acq: 7 May 2020 17:51

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.1	31.4	47.0
71	35.9	29.8	44.8





#53

Toluene

Concen: 1.417 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VL034972.D

Acq: 7 May 2020 17:51

Instrument :

MSVOA_L

ClientSampleId :

IIA2

Tot Ion: 91 Resp: 290502

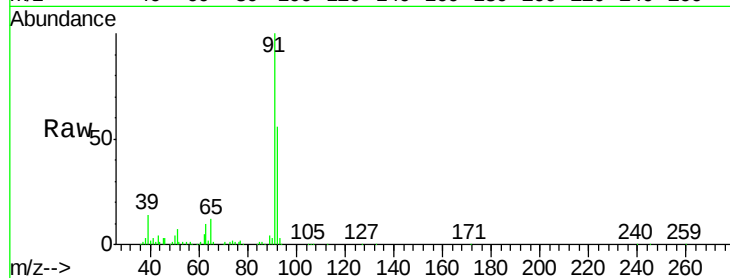
Ion Ratio Lower Upper

91 100

92 59.8 48.6 73.0

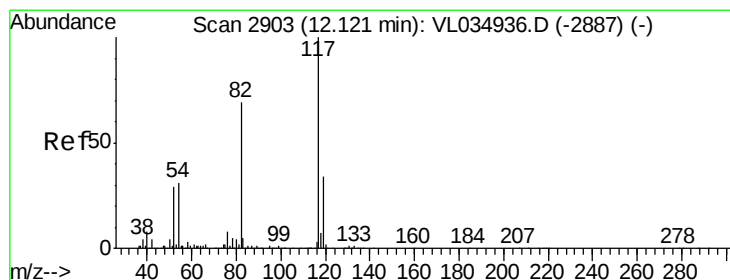
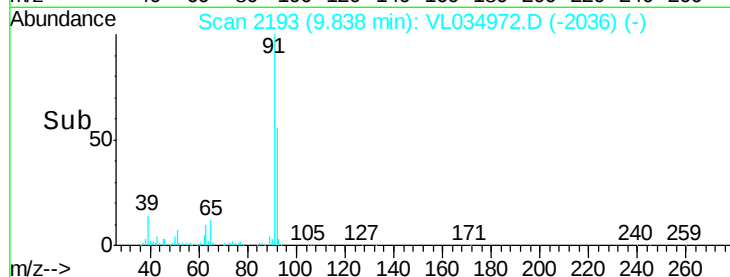
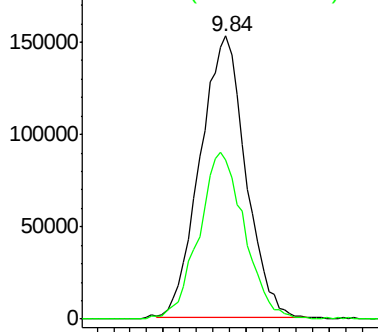
Manual Integrations
APPROVED

MMDadoda
5/8/2020 5:22:39 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VL034972.D

Acq: 7 May 2020 17:51

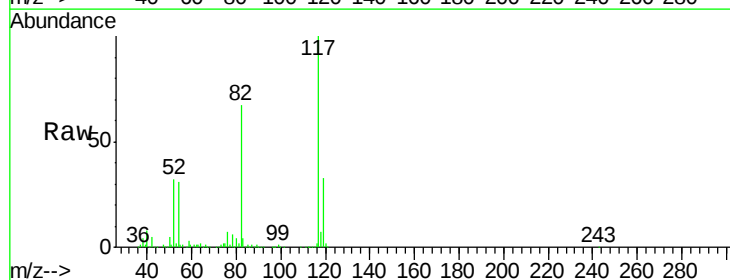
Tgt Ion: 117 Resp: 2134344

Ion Ratio Lower Upper

117 100

82 70.0 53.1 79.7

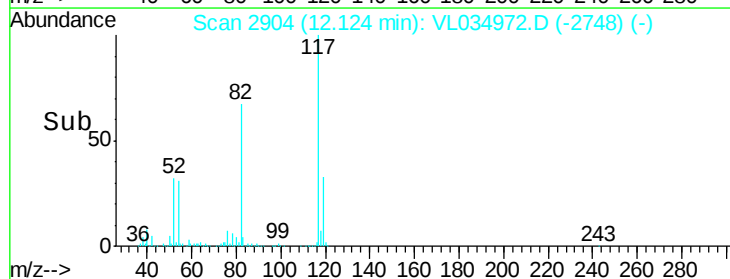
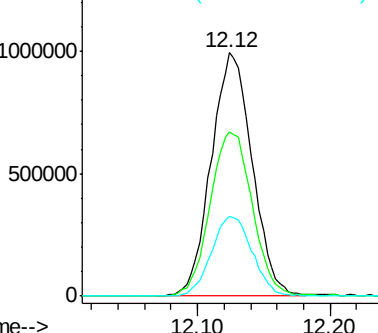
119 32.9 26.7 40.1

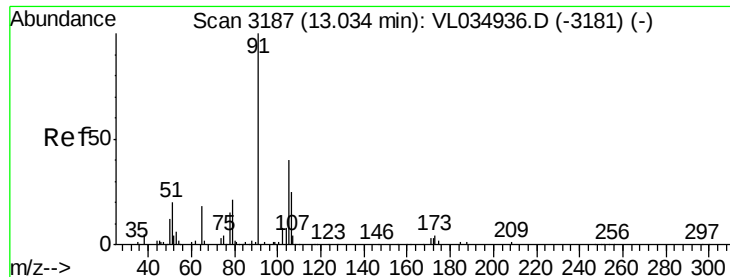


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#59

m/p-Xylene

Concen: 0.114 ppbv m

RT: 13.00 min Scan# 3177

Delta R.T. -0.03 min

Lab File: VL034972.D

Acq: 7 May 2020 17:51

Instrument :

MSVOA_L

ClientSampleId :

IIA2

Tot Ion: 91 Resp: 26508

Ion Ratio Lower Upper

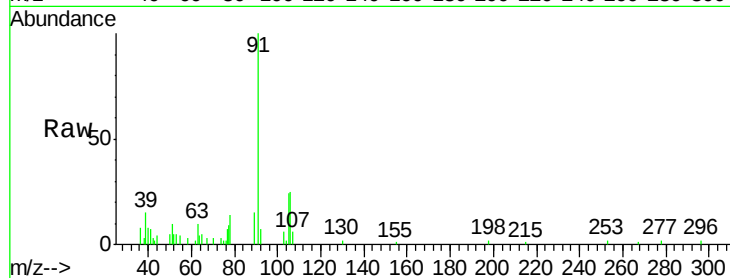
91 100

106 11.6 66.0 99.0#

Manual Integrations
APPROVED

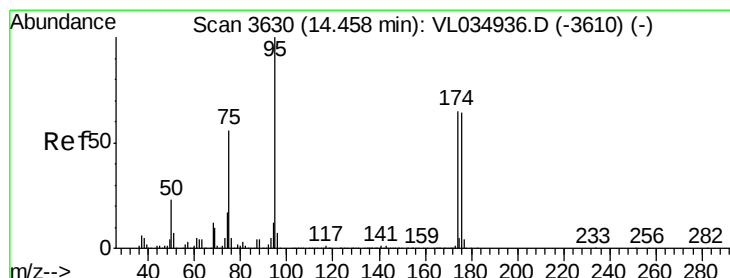
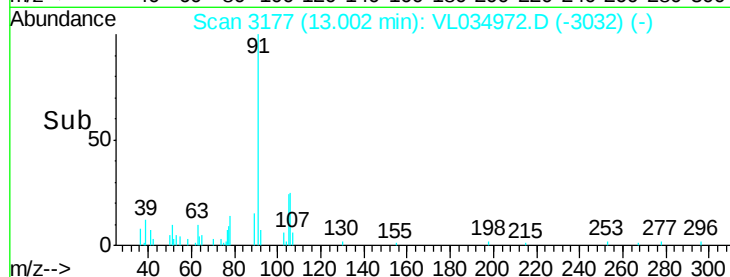
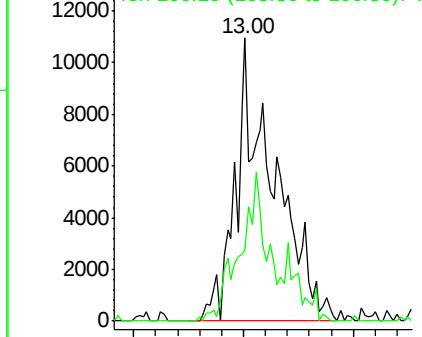
MMDadoda

5/8/2020 5:22:39 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.227 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VL034972.D

Acq: 7 May 2020 17:51

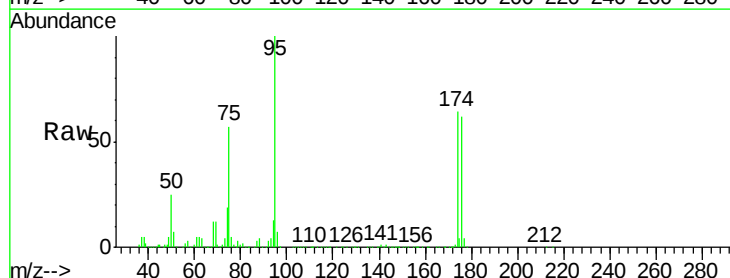
Tgt Ion: 95 Resp: 1766884

Ion Ratio Lower Upper

95 100

174 66.1 51.5 77.3

175 4.6 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

