

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034629.D
 Acq On : 18 Feb 2020 18:21
 Operator : SY/AP
 Sample : L1532-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

Manual Integrations
 APPROVED

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 2/21/2020 3:25:53 PM

Quant Time: Feb 19 06:48:55 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	901264	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	1854668	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	1848130	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1599004	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	47007	0.237	ppbv	89
3) Chlorodifluoromethane	2.95	51	35778m	0.329	ppbv	
4) Chloromethane	3.10	50	29767	0.447	ppbv	92
9) Propene	2.98	41	33964	0.801	ppbv #	72
11) Trichlorofluoromethane	3.92	101	43958	0.244	ppbv	89
13) Ethanol	3.57	45	913256	80.409	ppbv	99
15) Acetone	3.82	43	616348	4.653	ppbv	100
19) Isopropyl Alcohol	3.94	45	55129	0.713	ppbv #	1
20) Methylene Chloride	4.32	84	88137	1.747	ppbv	92
26) Hexane	5.67	57	100203	1.116	ppbv #	44
29) Chloroform	5.74	83	16568m	0.104	ppbv	
35) Carbon Tetrachloride	7.02	117	12461m	0.070	ppbv	
36) Benzene	6.89	78	20148m	0.122	ppbv	
52) Tetrachloroethene	11.24	164	11703m	0.177	ppbv	
53) Toluene	9.82	91	497055	2.743	ppbv	95

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

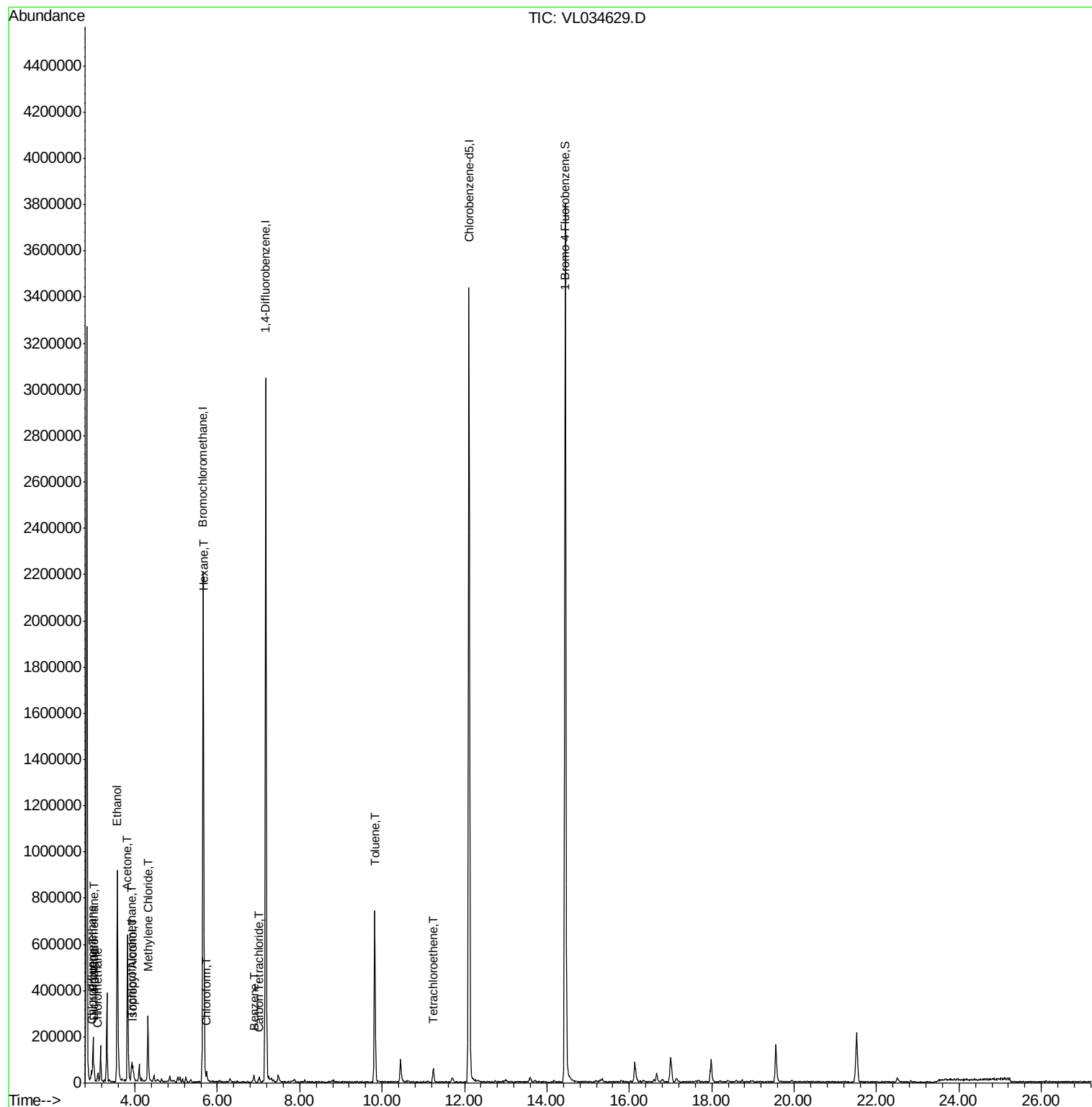
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034629.D
Acq On : 18 Feb 2020 18:21
Operator : SY/AP
Sample : L1532-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

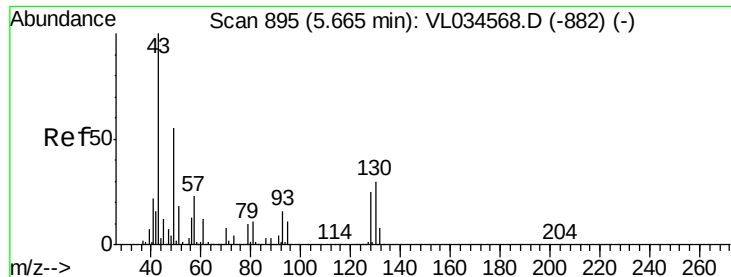
Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

Manual Integrations
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Quant Time: Feb 19 06:48:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tot Ion: 49 Resp: 901264
Ion Ratio Lower Upper

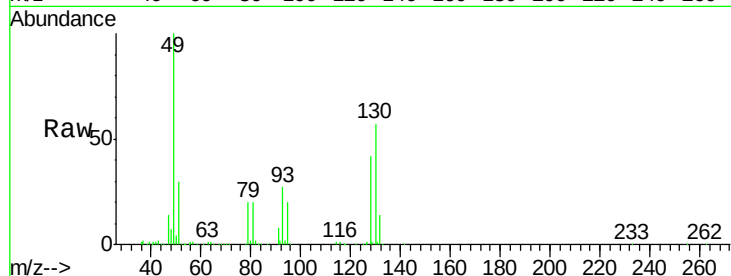
49 100

128 46.0 22.7 68.1

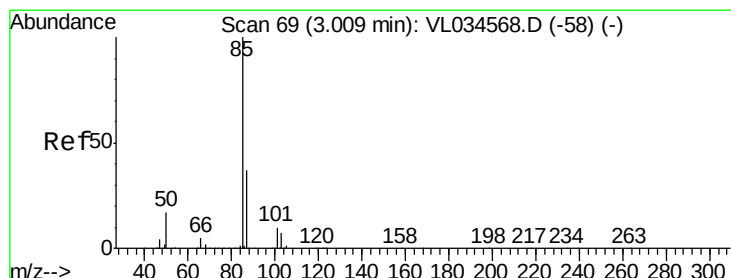
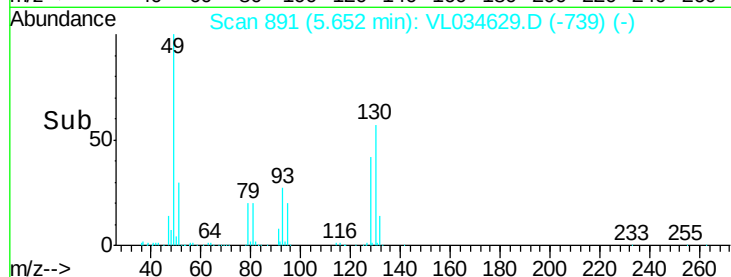
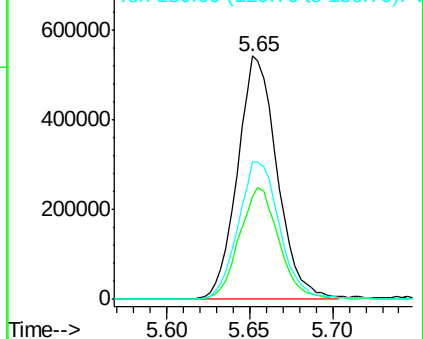
130 59.5 28.6 85.8

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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: 0.237 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

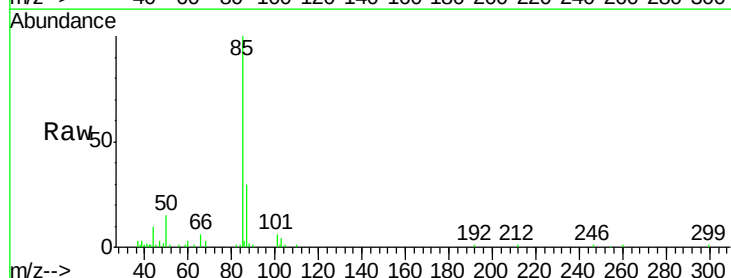
Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

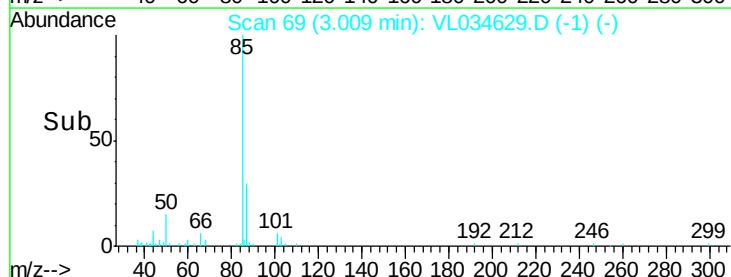
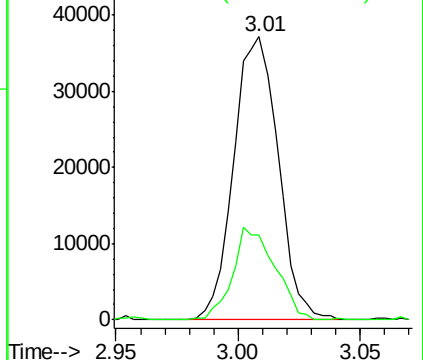
Tgt Ion: 85 Resp: 47007
Ion Ratio Lower Upper

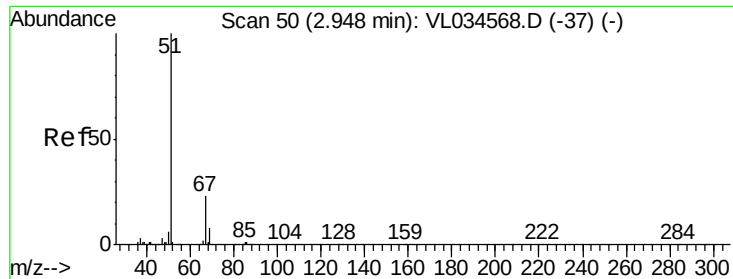
85 100

87 30.2 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

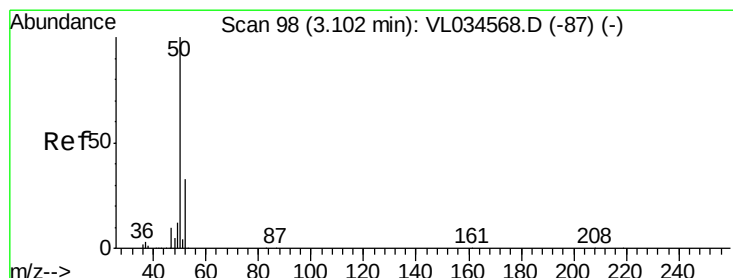
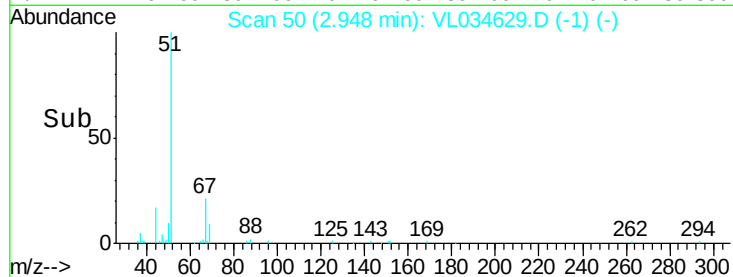
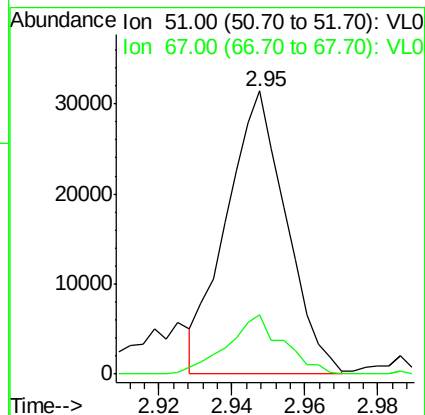
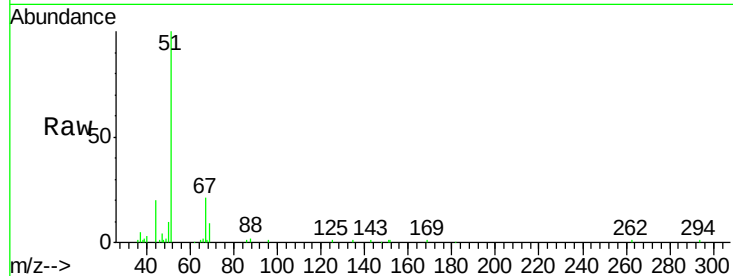
Chlorodifluoromethane
 Concen: 0.329 ppbv
 RT: 2.95 min Scan# 50
 Delta R.T. 0.00 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.4	17.8	26.8

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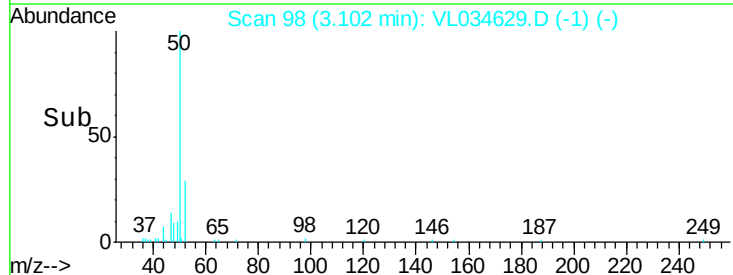
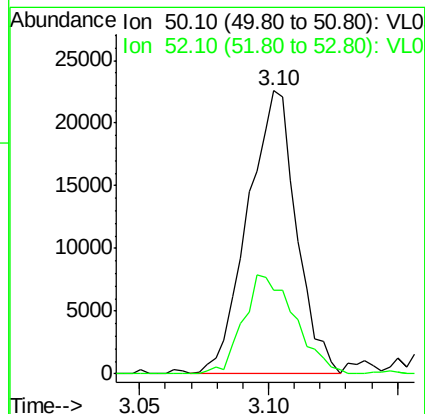
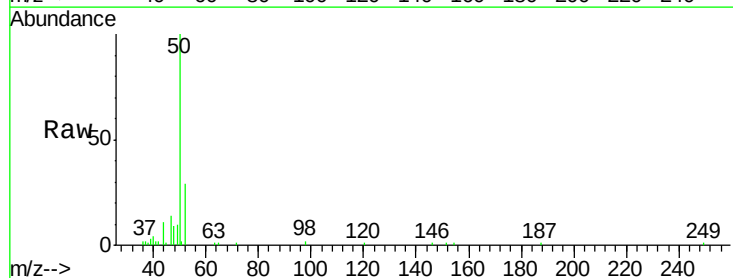
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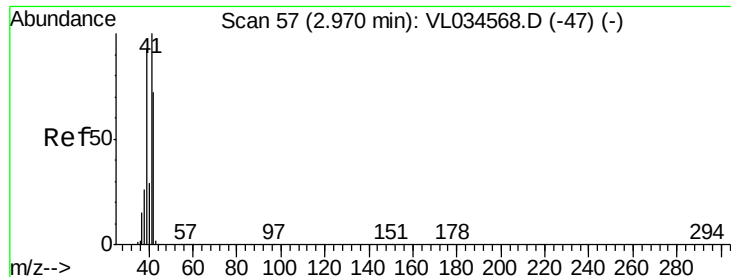


#4

Chloromethane
 Concen: 0.447 ppbv
 RT: 3.10 min Scan# 98
 Delta R.T. 0.00 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Tgt Ion	Ratio	Lower	Upper
50	100		
52	28.9	26.6	39.8





#9

Propene

Concen: 0.801 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tot Ion: 41 Resp: 33964

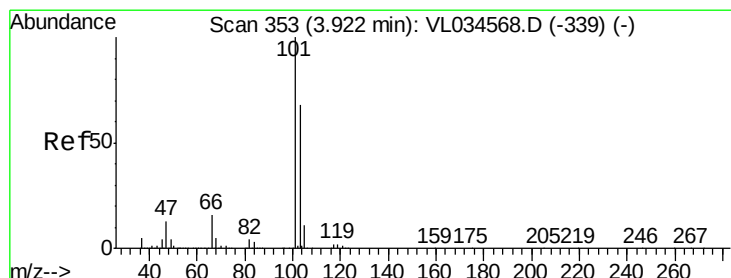
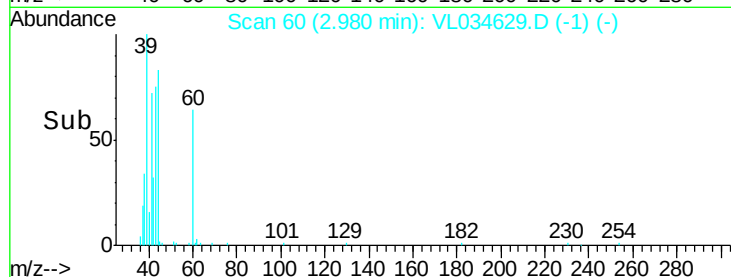
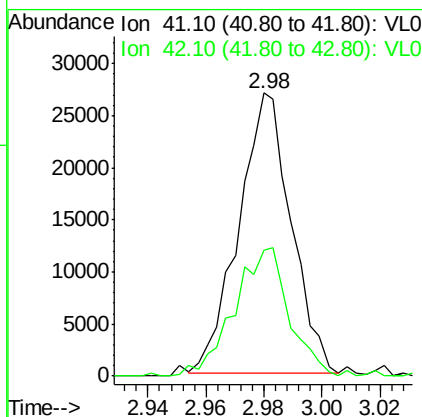
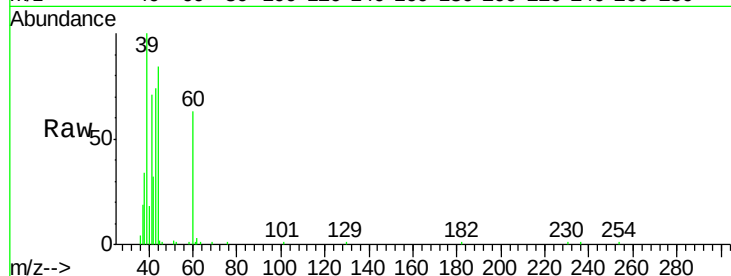
Ion Ratio Lower Upper

41 100

42 48.1 57.0 85.4#

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034629.D

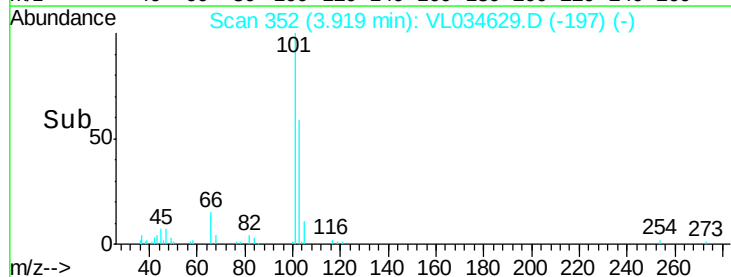
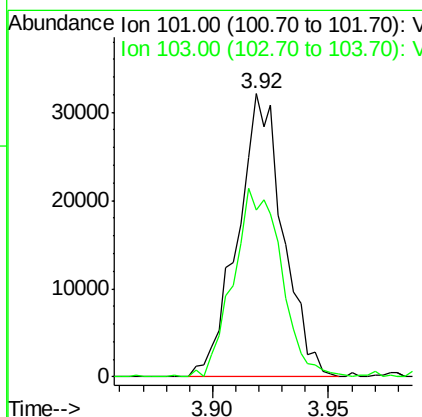
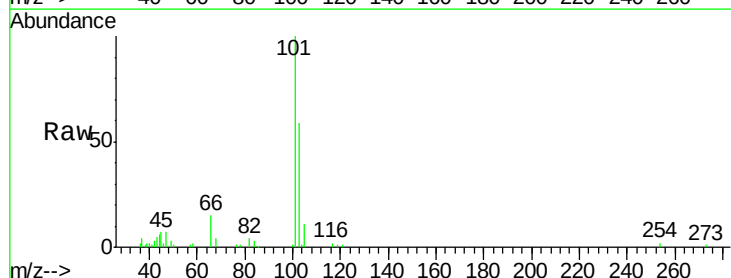
Acq: 18 Feb 2020 18:21

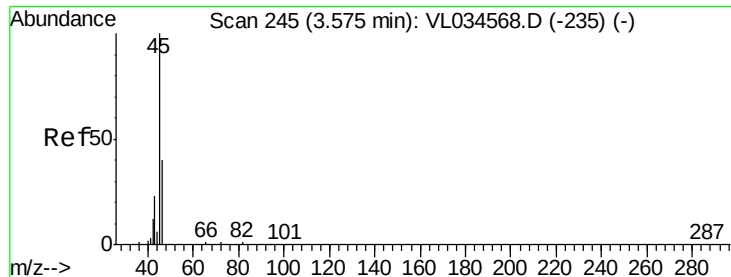
Tgt Ion: 101 Resp: 43958

Ion Ratio Lower Upper

101 100

103 58.9 54.4 81.6





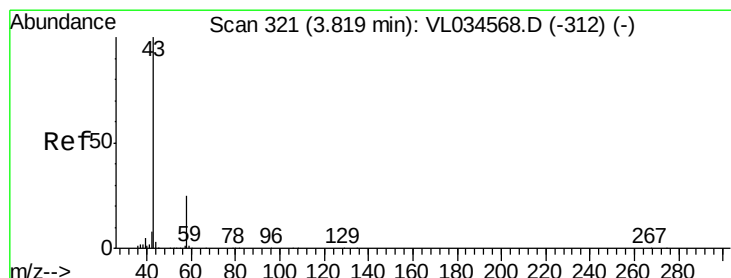
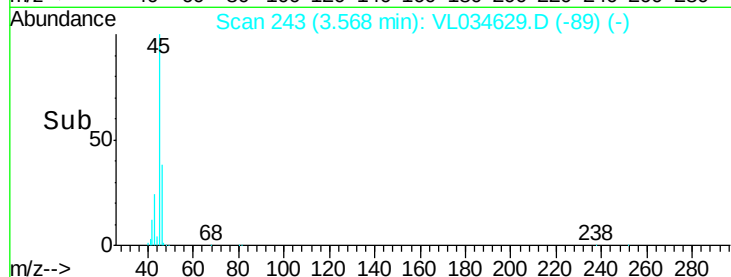
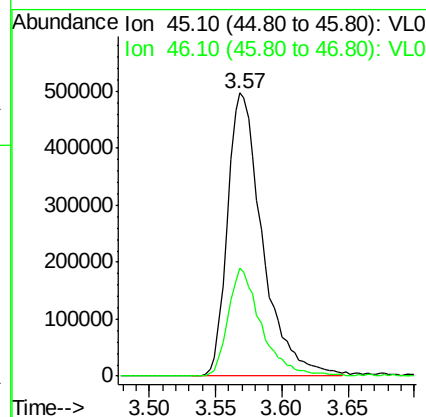
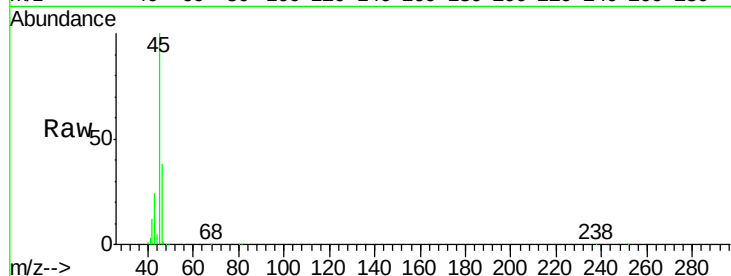
#13
Ethanol
Concen: 80.409 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.01 min
Lab File: VL034629.D
Acq: 18 Feb 2020 18:21

Instrument :
MSVOA_L
ClientSampled :
IR-PR-IA

Tot Ion: 45 Resp: 913256
Ion Ratio Lower Upper
45 100
46 36.3 14.8 59.2

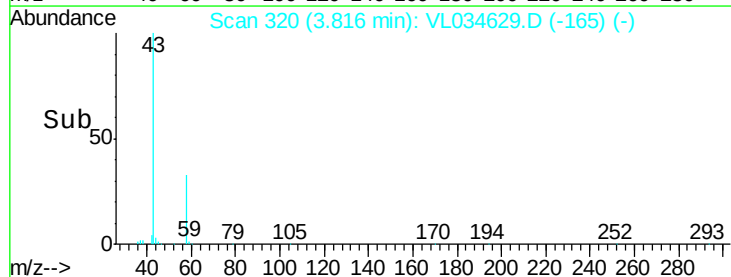
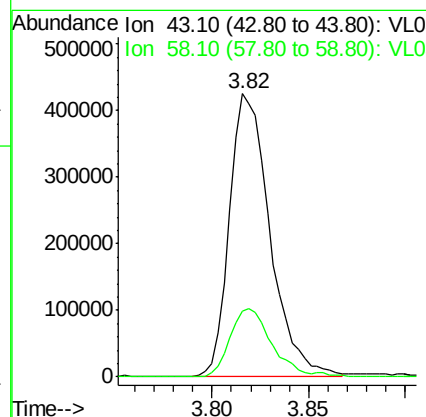
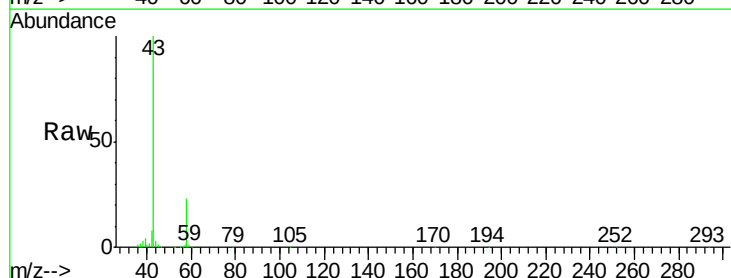
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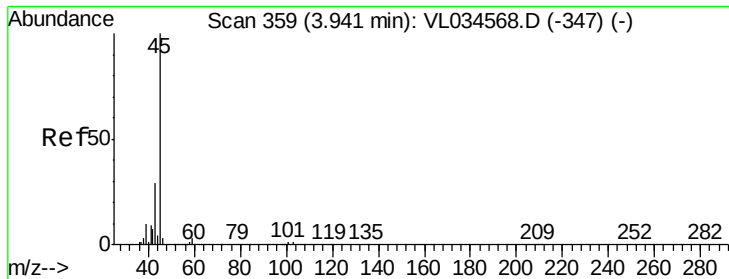
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#15
Acetone
Concen: 4.653 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034629.D
Acq: 18 Feb 2020 18:21

Tgt Ion: 43 Resp: 616348
Ion Ratio Lower Upper
43 100
58 25.3 20.3 30.5





#19

Isopropyl Alcohol

Concen: 0.713 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tot Ion: 45 Resp: 55129

Ion Ratio Lower Upper

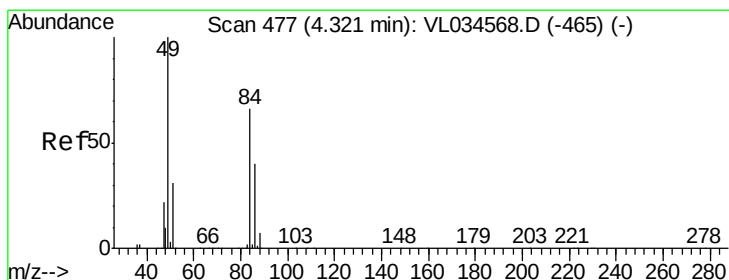
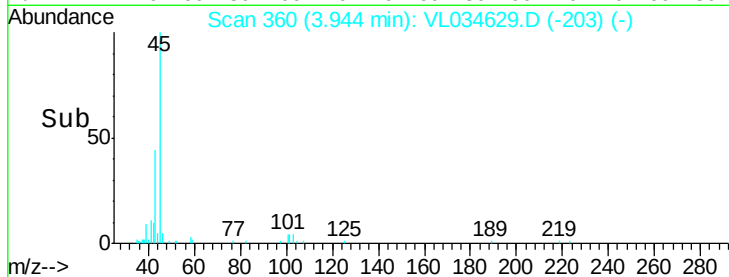
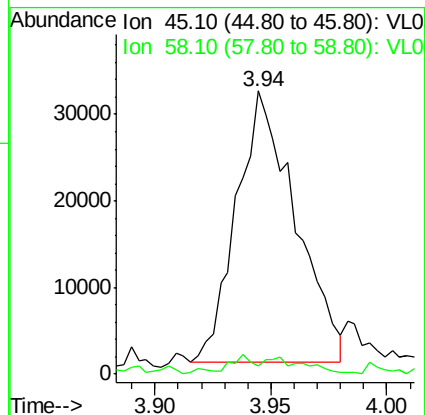
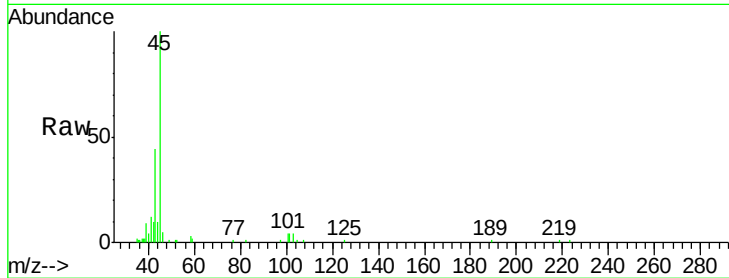
45 100

58 282.5 1.7 2.5#

Manual Integrations
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#20

Methylene Chloride

Concen: 1.747 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Tgt Ion: 84 Resp: 88137

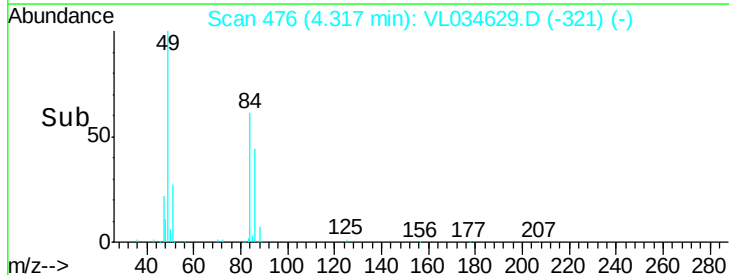
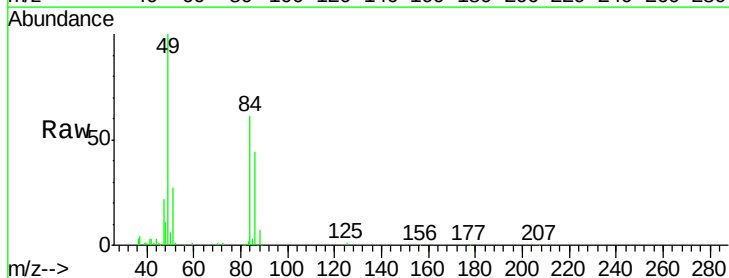
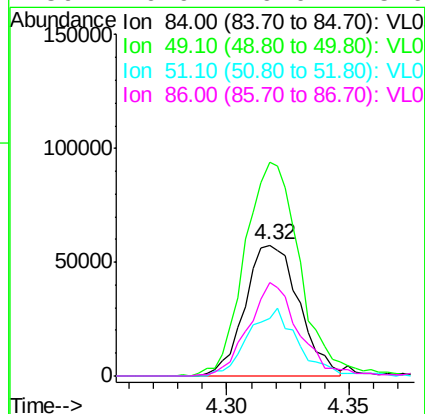
Ion Ratio Lower Upper

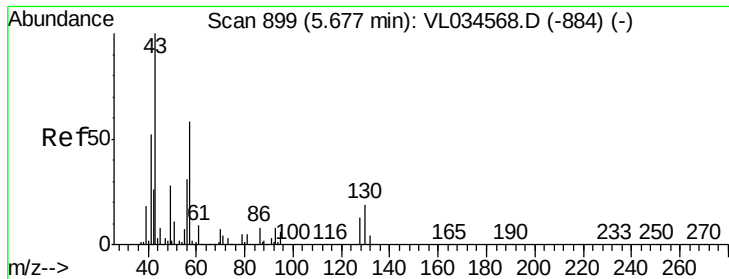
84 100

49 162.5 122.4 183.6

51 43.8 38.6 57.8

86 70.9 49.0 73.6





#26

Hexane

Concen: 1.116 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tot Ion: 57 Resp: 100203
Ion Ratio Lower Upper

57 100

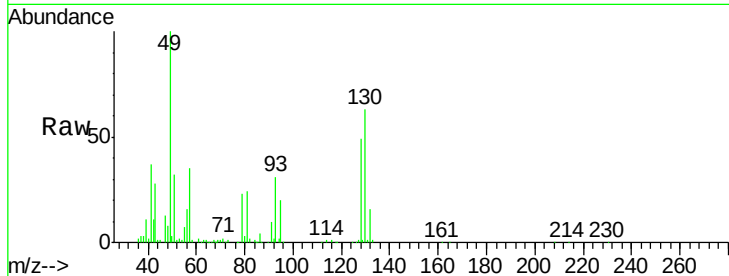
41 110.1 76.2 114.2

43 94.3 189.9 284.9#

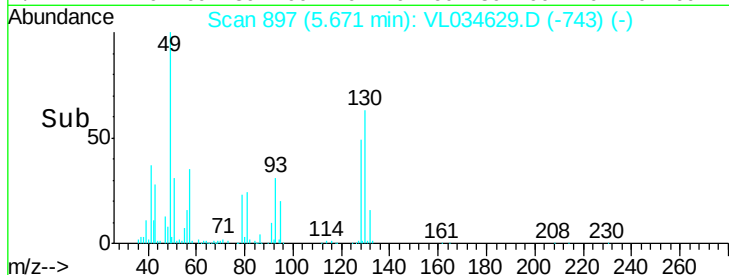
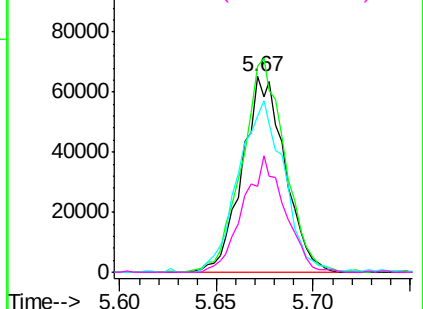
56 57.7 43.6 65.4

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Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.104 ppbv m

RT: 5.74 min Scan# 917

Delta R.T. -0.02 min

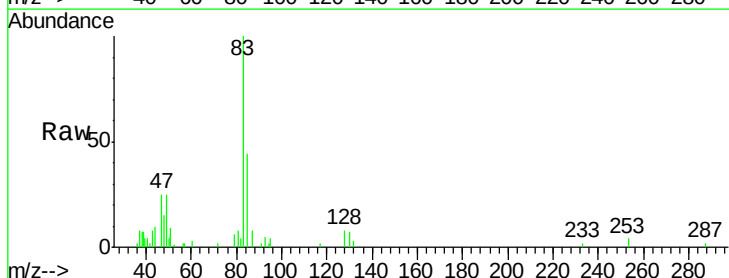
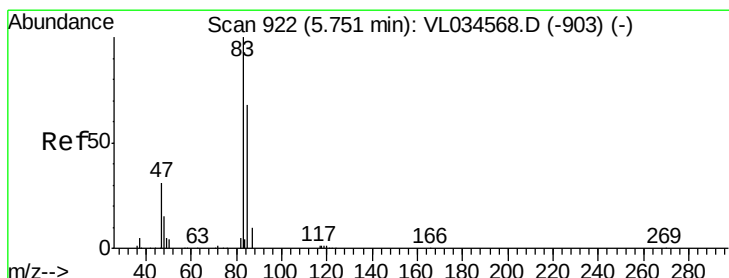
Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

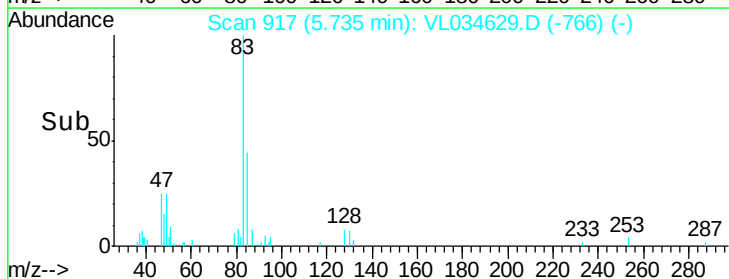
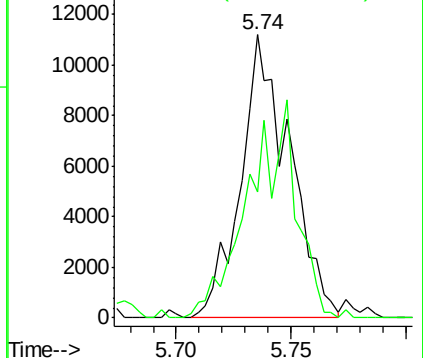
Tgt Ion: 83 Resp: 16568
Ion Ratio Lower Upper

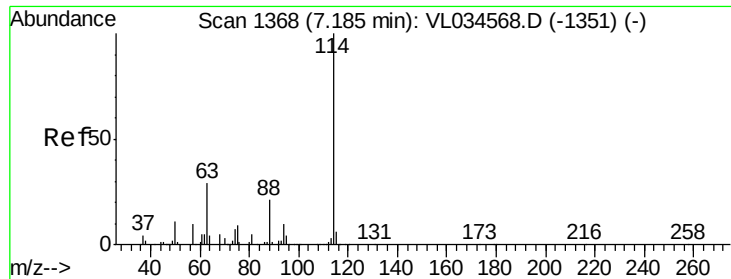
83 100

85 44.4 54.0 81.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





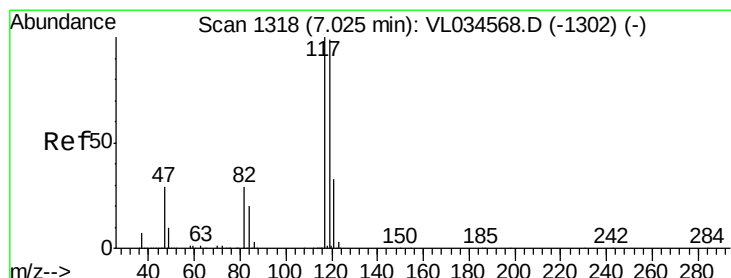
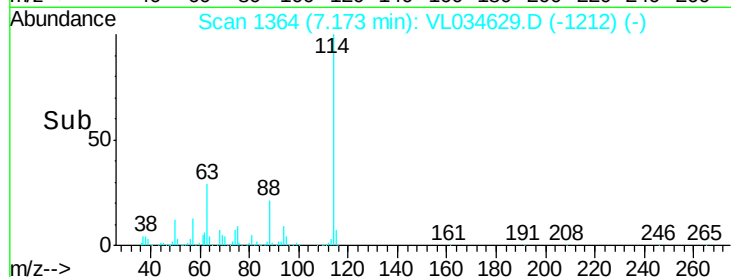
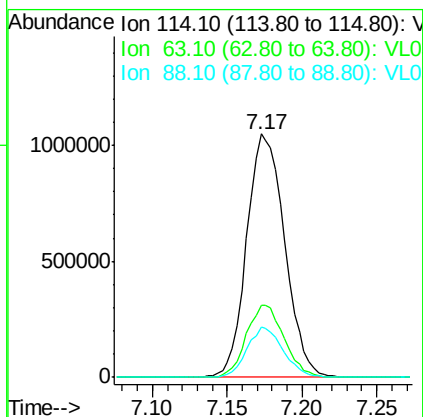
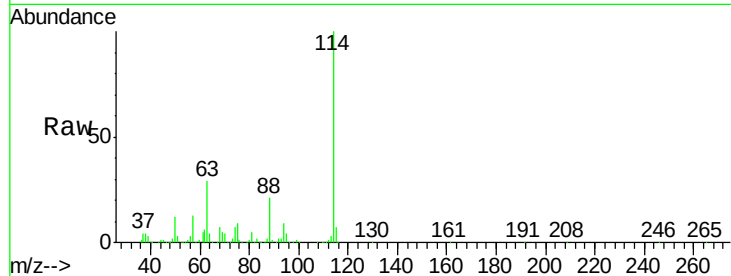
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.6	24.1	36.1
88	19.7	15.9	23.9

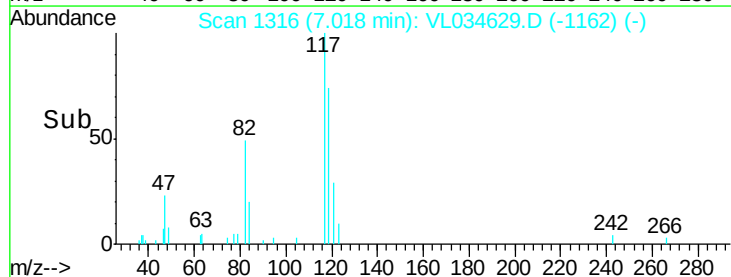
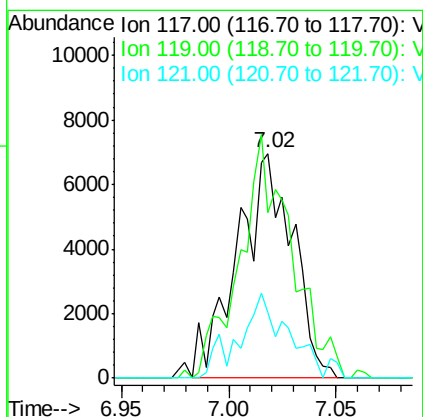
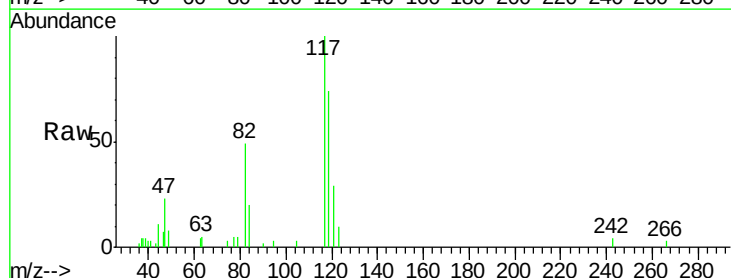
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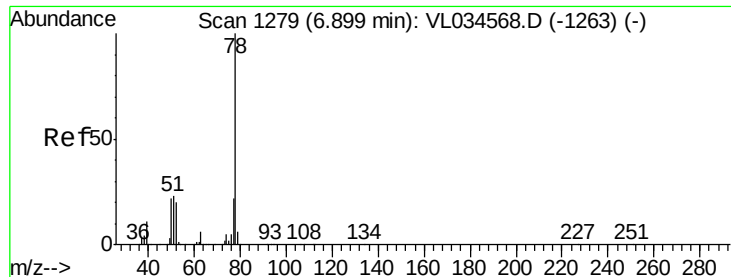
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#35
 Carbon Tetrachloride
 Concen: 0.070 ppbv m
 RT: 7.02 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	73.7	79.5	119.3#
121	29.2	26.2	39.2





#36

Benzene

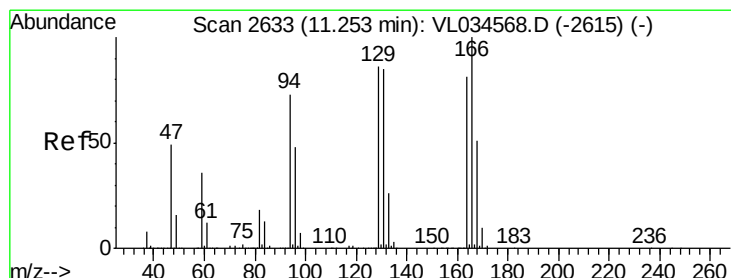
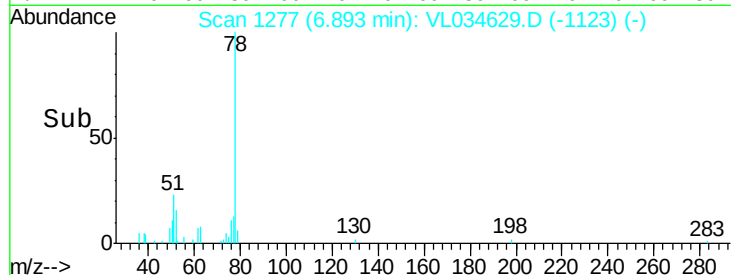
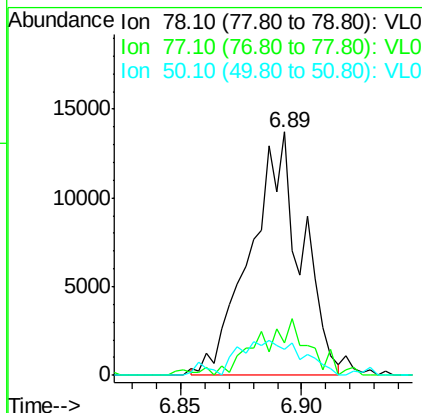
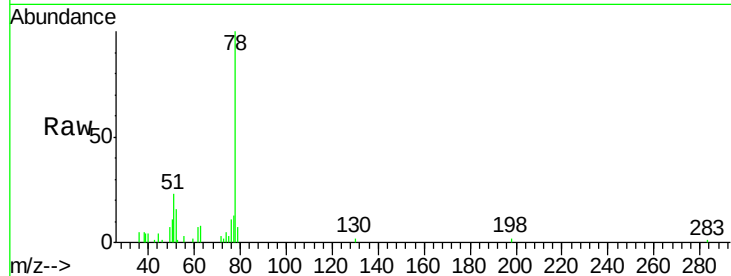
Concen: 0.122 ppbv m
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

Tot Ion	Ratio	Lower	Upper
78	100		
77	13.1	17.3	25.9#
50	10.5	17.4	26.2#

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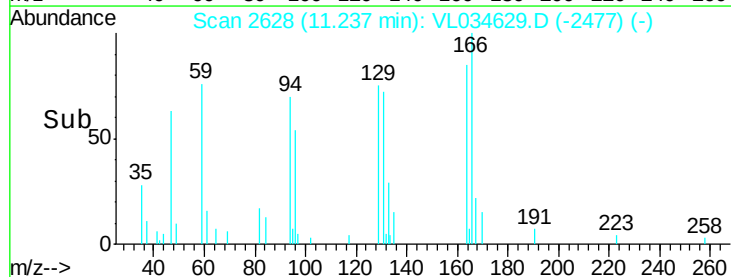
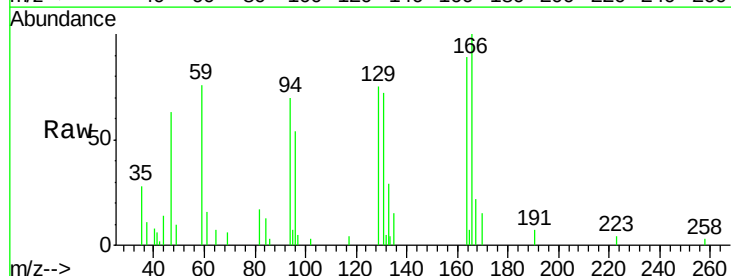
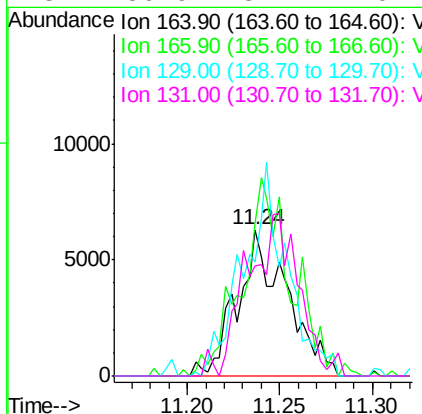


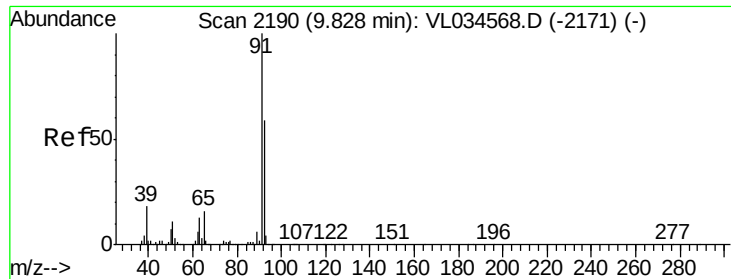
#52

Tetrachloroethene

Concen: 0.177 ppbv m
 RT: 11.24 min Scan# 2628
 Delta R.T. -0.02 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	112.0	99.0	148.4
129	84.3	85.3	127.9#
131	80.9	84.2	126.2#





#53

Toluene

Concen: 2.743 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tot Ion: 91 Resp: 497055

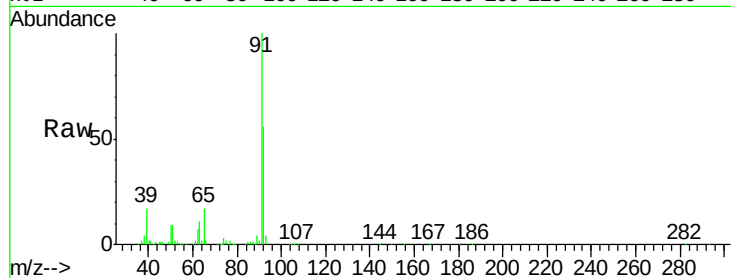
Ion Ratio Lower Upper

91 100

92 56.2 48.2 72.2

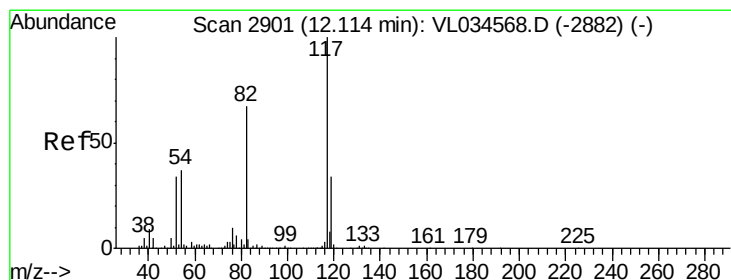
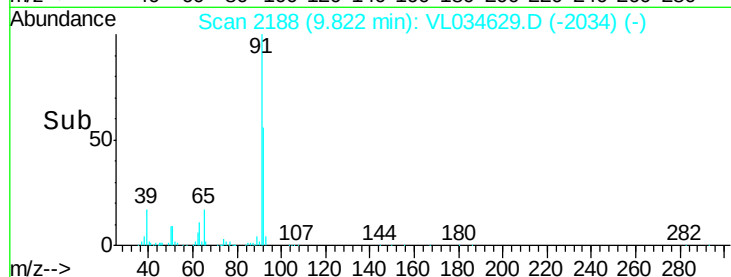
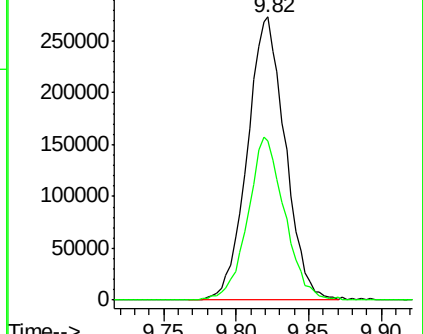
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

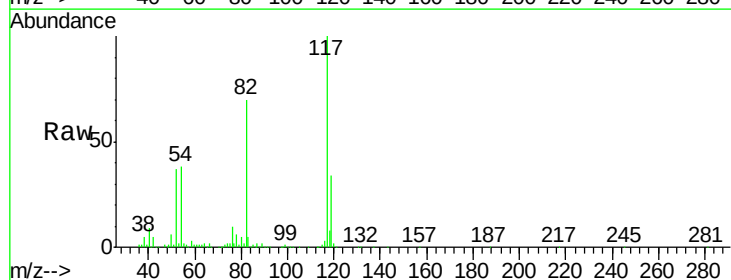
Tgt Ion: 117 Resp: 1848130

Ion Ratio Lower Upper

117 100

82 70.6 54.2 81.4

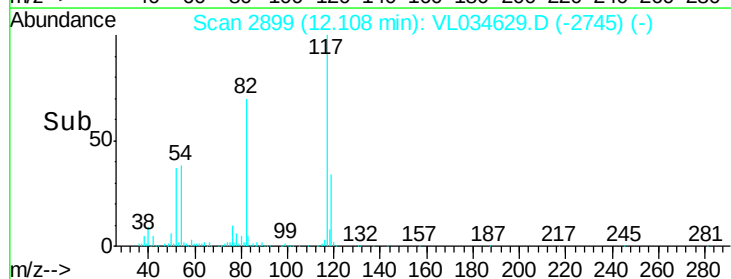
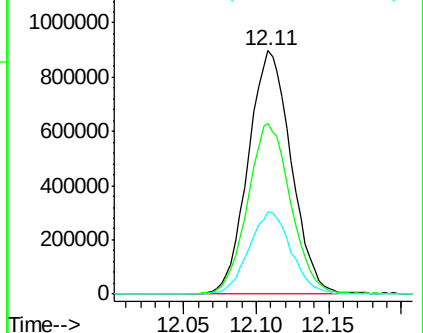
119 33.5 26.1 39.1

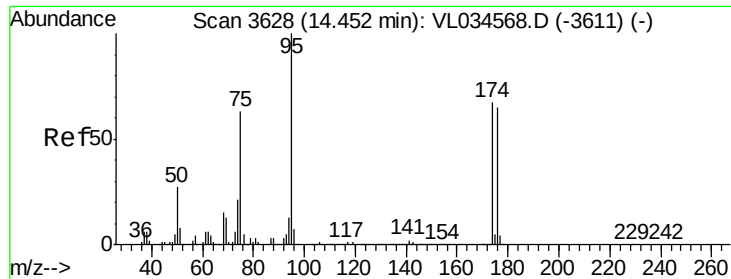


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.237 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.1	52.3	78.5
175	4.7	3.8	5.6

Manual Integrations
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