

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\
 Data File : VL035983.D
 Acq On : 18 Nov 2020 21:26
 Operator : SY/AP
 Sample : L4781-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DUP

Manual Integrations
 APPROVED

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 11/20/2020 12:27:59 PM

Quant Time: Nov 19 21:30:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1122687	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	3912878	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.04	117	3556760	10.00	ppbv	-0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	2661341	10.53	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	55238	0.261	ppbv	94
3) Chlorodifluoromethane	2.96	51	67636	0.503	ppbv #	86
4) Chloromethane	3.11	50	32472	0.497	ppbv	97
9) Propene	2.99	41	40468	0.822	ppbv	90
11) Trichlorofluoromethane	3.92	101	67894	0.256	ppbv	97
13) Ethanol	3.57	45	441336	41.341	ppbv	100
15) Acetone	3.82	43	570757	4.755	ppbv	95
19) Isopropyl Alcohol	3.94	45	89069	1.208	ppbv #	67
20) Methylene Chloride	4.31	84	1557600	18.434	ppbv	99
26) Hexane	5.65	57	921501	7.067	ppbv #	47
30) Cyclohexane	7.12	84	19117m	0.135	ppbv	
34) 2-Butanone	5.21	43	23229m	0.183	ppbv	
35) Carbon Tetrachloride	6.97	117	13943	0.067	ppbv	94
36) Benzene	6.85	78	56712	0.195	ppbv	99
52) Tetrachloroethene	11.18	164	12360m	0.090	ppbv	
53) Toluene	9.76	91	764436	2.178	ppbv	97
59) m/p-Xylene	12.92	91	40295m	0.110	ppbv	

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

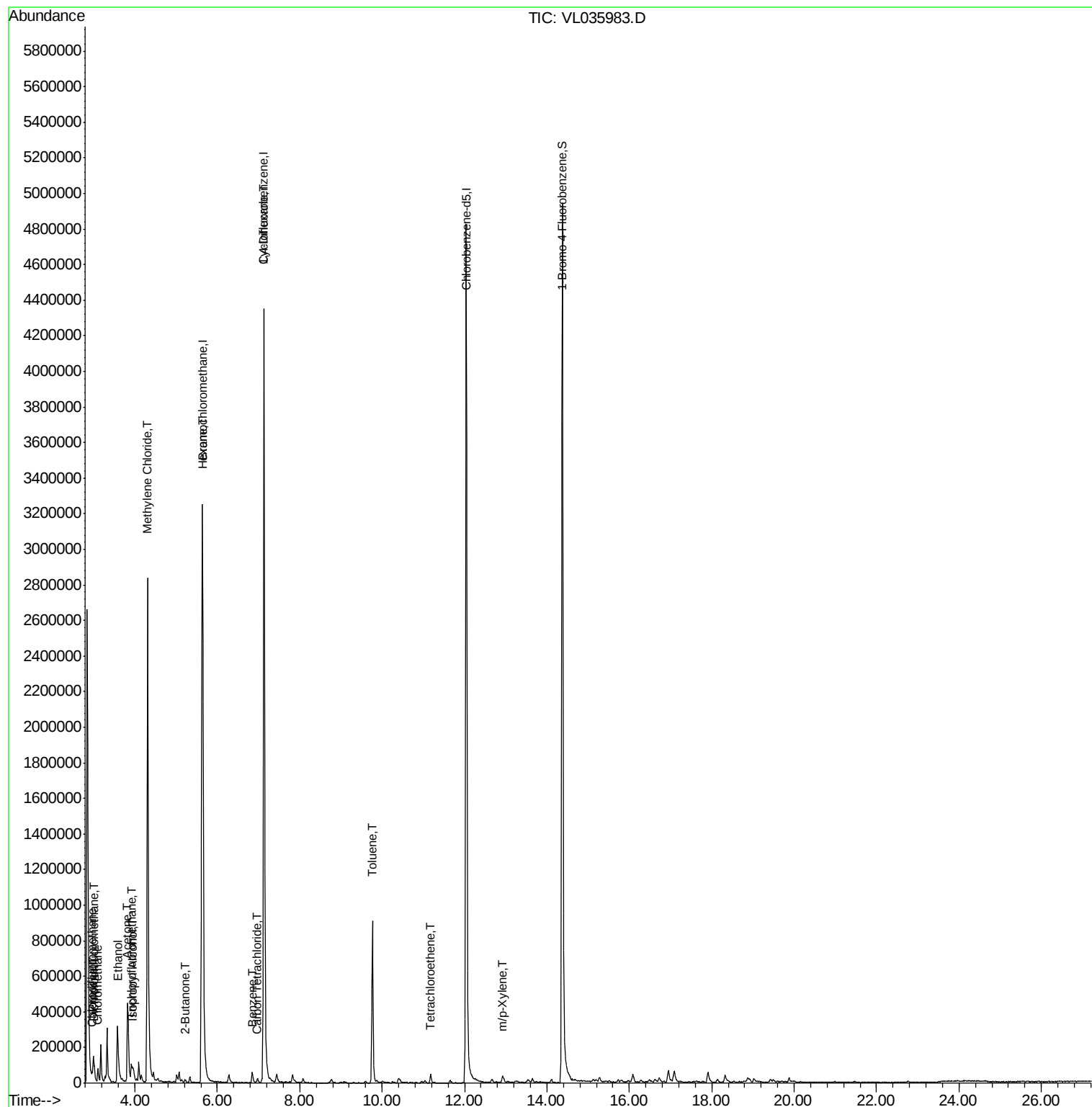
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111820\
Data File : VL035983.D
Acq On : 18 Nov 2020 21:26
Operator : SY/AP
Sample : L4781-02DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

Manual Integrations
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Quant Time: Nov 19 21:30:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 883

Delta R.T. -0.04 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion: 49 Resp: 1122687

Ion Ratio Lower Upper

49 100

128 77.2 41.5 124.6

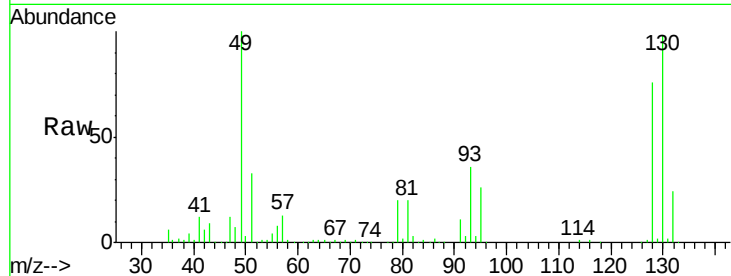
130 98.9 53.7 161.1

Manual Integrations

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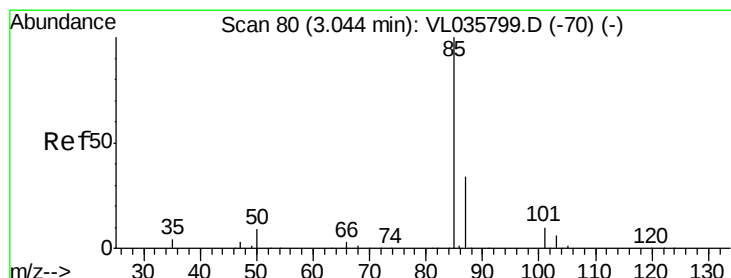
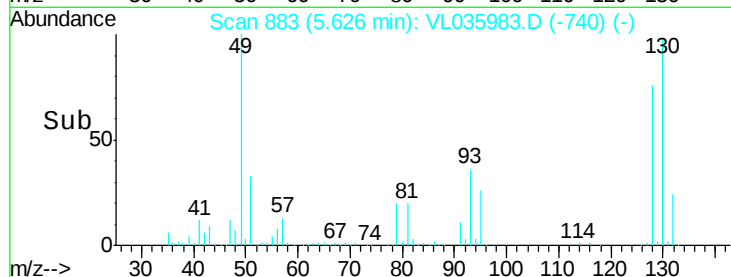
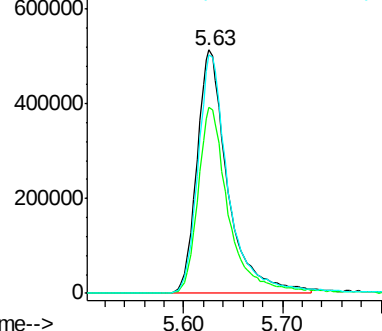
11/20/2020 12:27:59 PM



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: 0.261 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.03 min

Lab File: VL035983.D

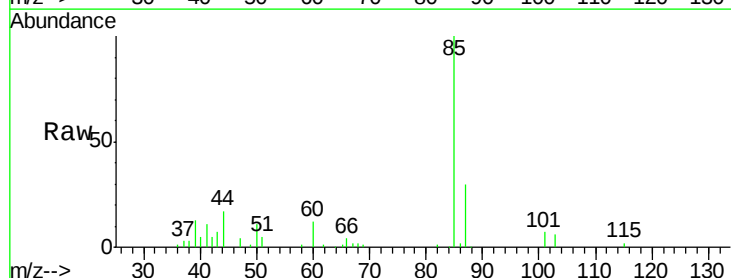
Acq: 18 Nov 2020 21:26

Tgt Ion: 85 Resp: 55238

Ion Ratio Lower Upper

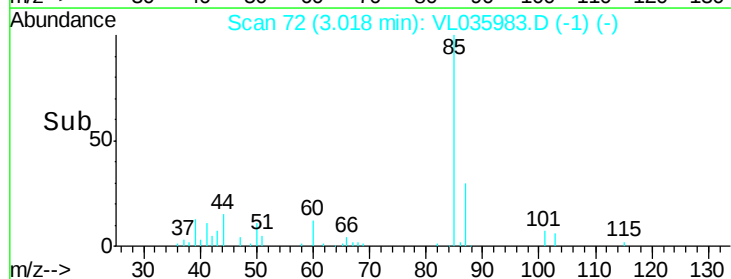
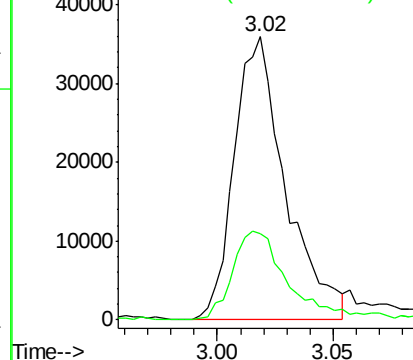
85 100

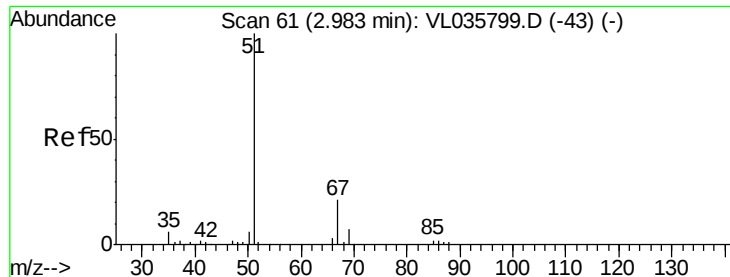
87 30.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.503 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.03 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion: 51 Resp: 67636

Ion Ratio Lower Upper

51 100

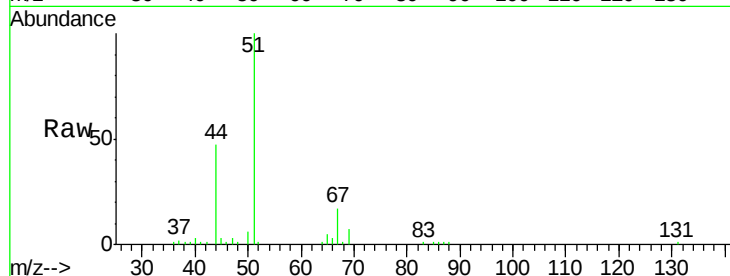
67 14.5 17.0 25.4#

Manual Integrations

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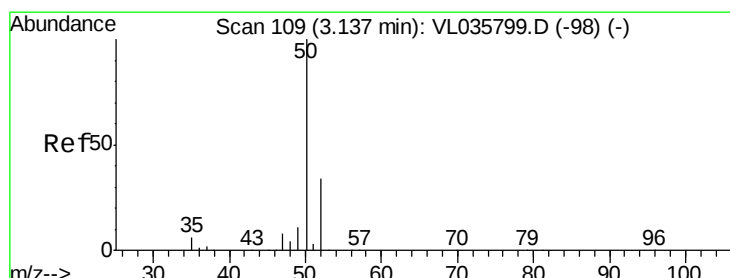
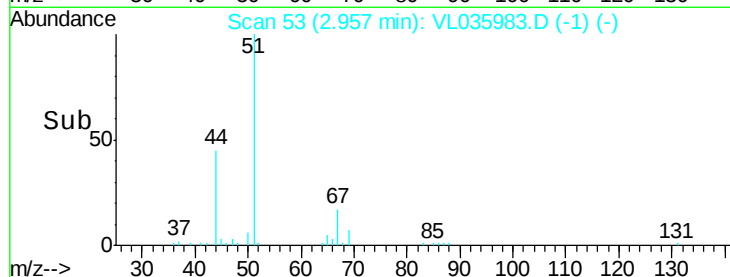
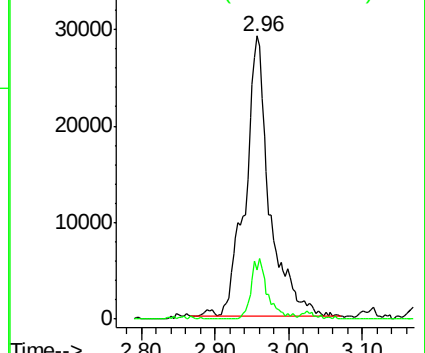
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.497 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.03 min

Lab File: VL035983.D

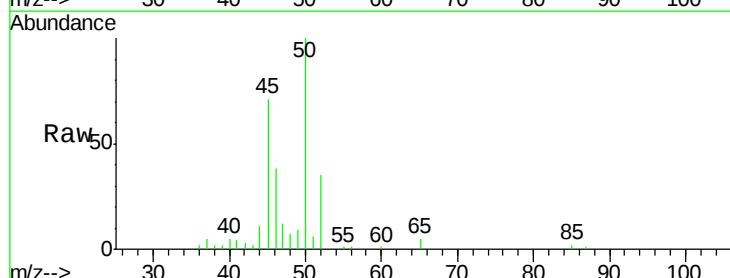
Acq: 18 Nov 2020 21:26

Tgt Ion: 50 Resp: 32472

Ion Ratio Lower Upper

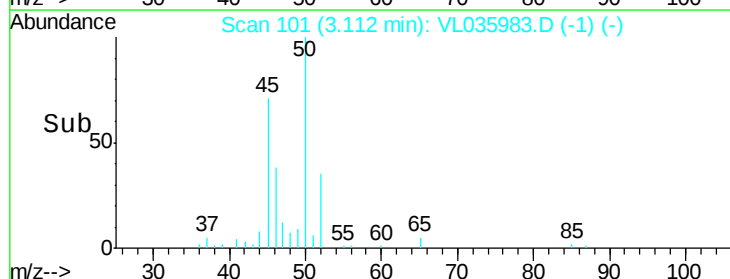
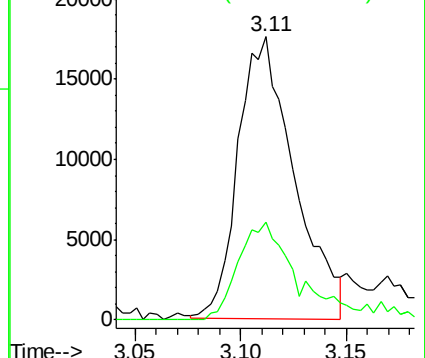
50 100

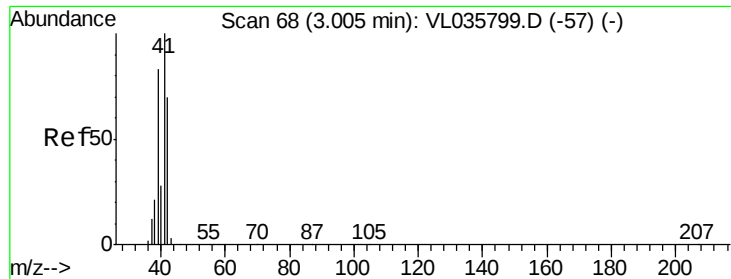
52 35.6 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.822 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion: 41 Resp: 40468

Ion Ratio Lower Upper

41 100

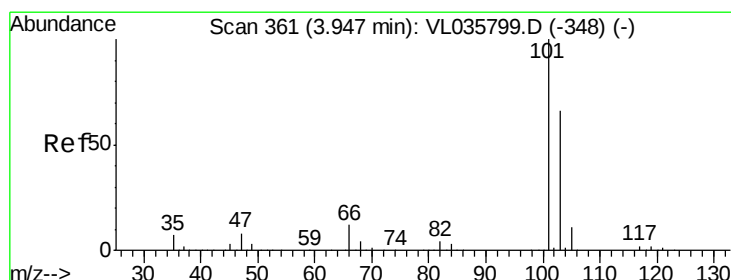
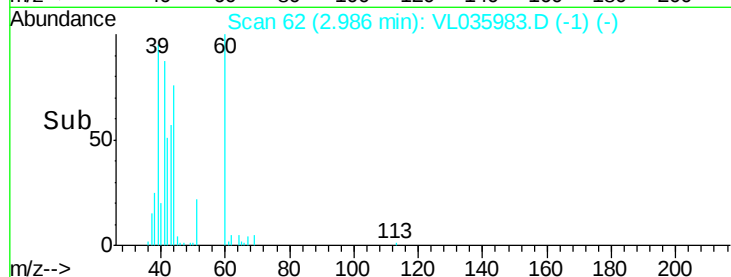
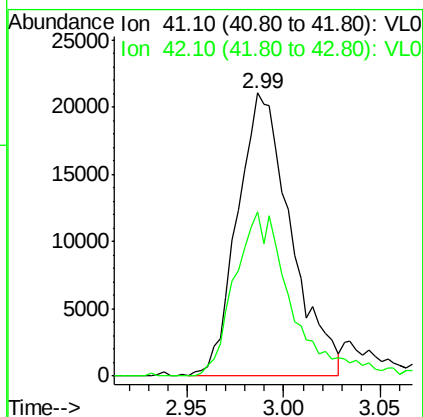
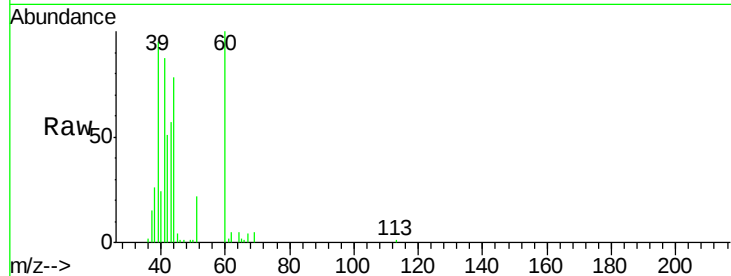
42 61.8 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 0.256 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.03 min

Lab File: VL035983.D

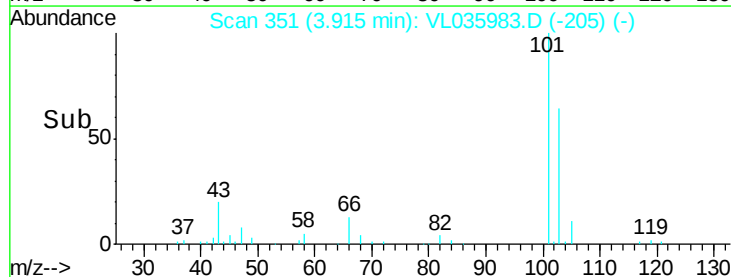
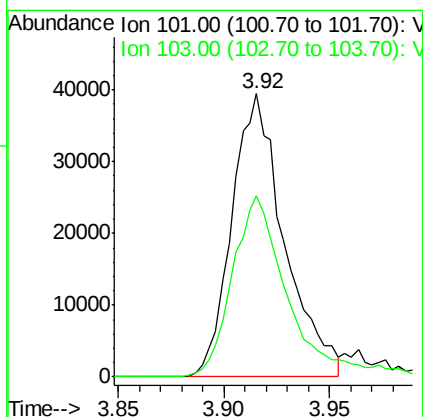
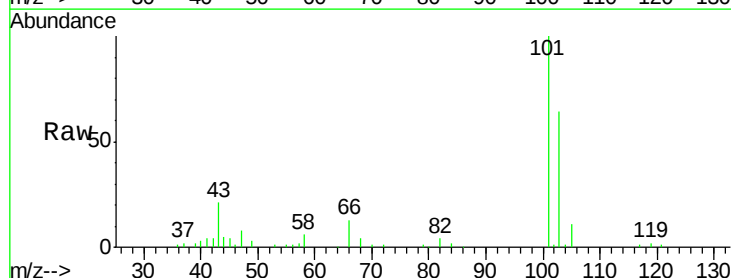
Acq: 18 Nov 2020 21:26

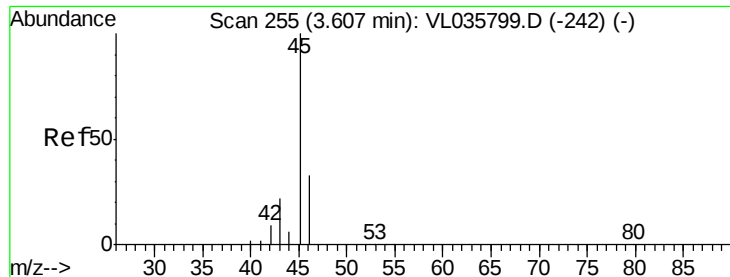
Tgt Ion: 101 Resp: 67894

Ion Ratio Lower Upper

101 100

103 63.5 53.0 79.4





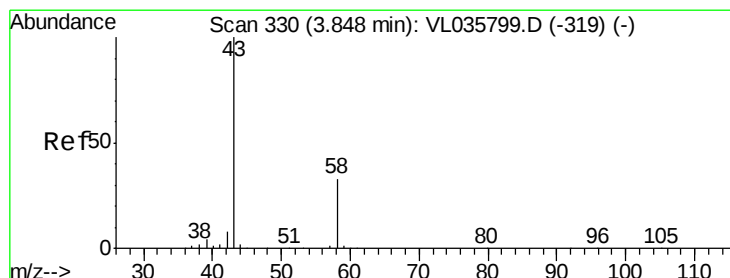
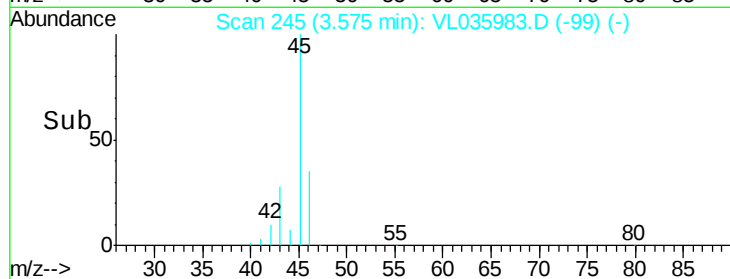
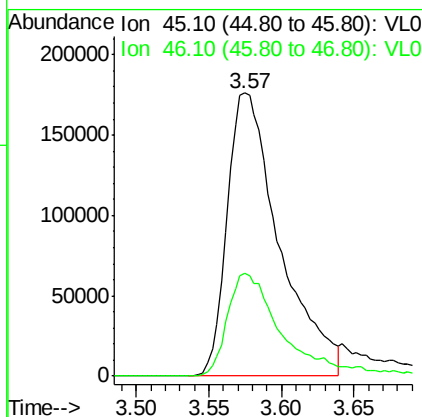
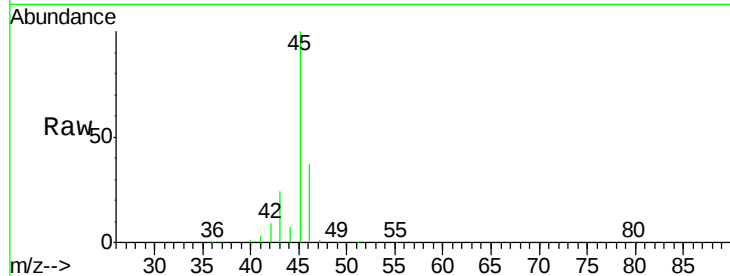
#13
Ethanol
Concen: 41.341 ppbv
RT: 3.57 min Scan# 245
Delta R.T. -0.03 min
Lab File: VL035983.D
Acq: 18 Nov 2020 21:26

Instrument :
MSVOA_L
ClientSampled :
IA2DUP

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	40.4		16.1	64.5	

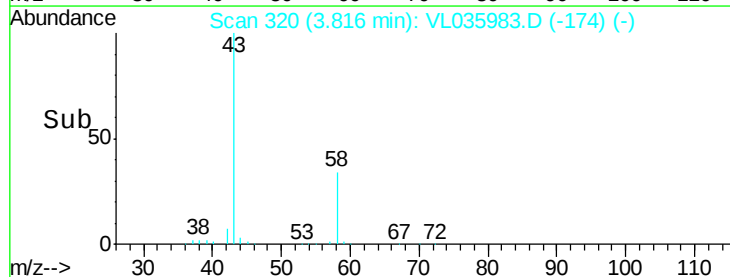
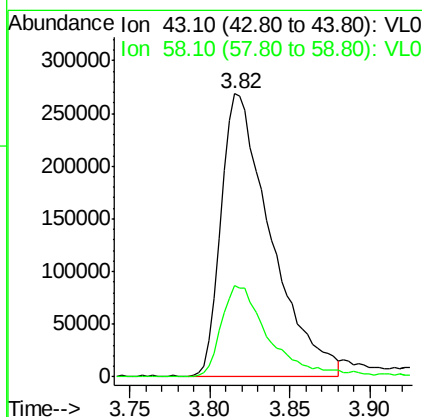
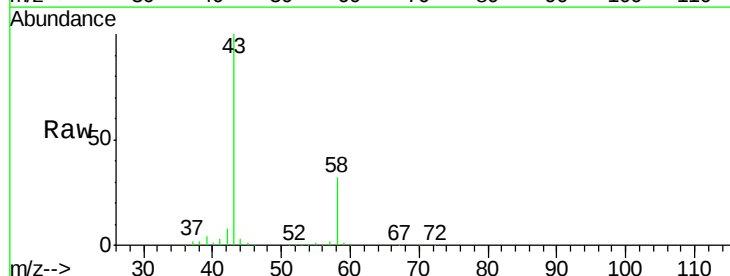
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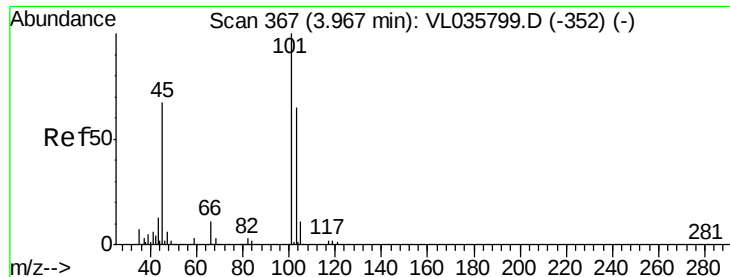
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#15
Acetone
Concen: 4.755 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.03 min
Lab File: VL035983.D
Acq: 18 Nov 2020 21:26

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	31.5		27.5	41.3	





#19

Isopropyl Alcohol

Concen: 1.208 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.02 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion: 45 Resp: 89069

Ion Ratio Lower Upper

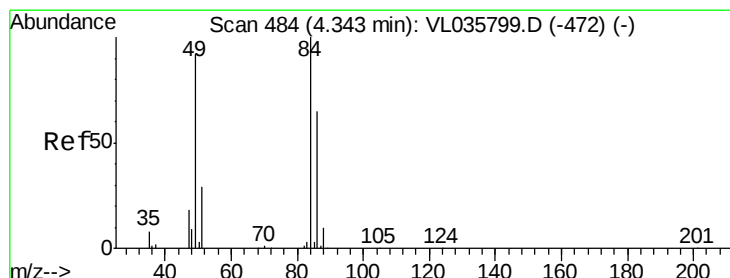
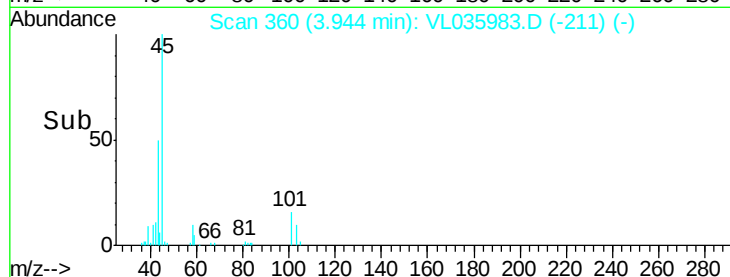
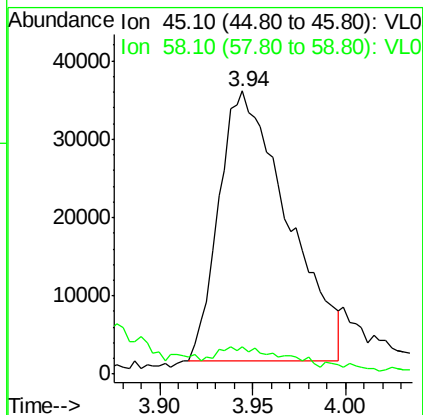
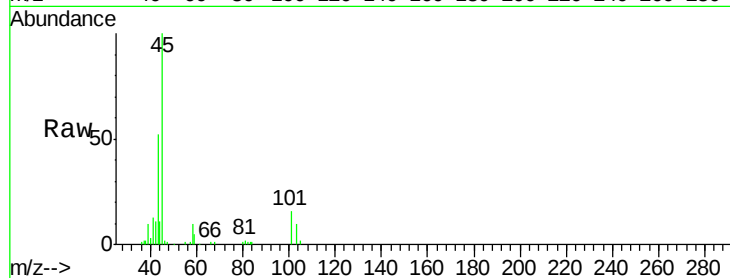
45 100

58 14.0 2.6 3.8#

Manual Integrations
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#20

Methylene Chloride

Concen: 18.434 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.04 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Tgt Ion: 84 Resp: 1557600

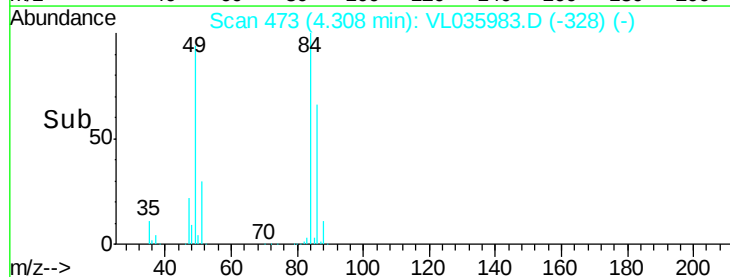
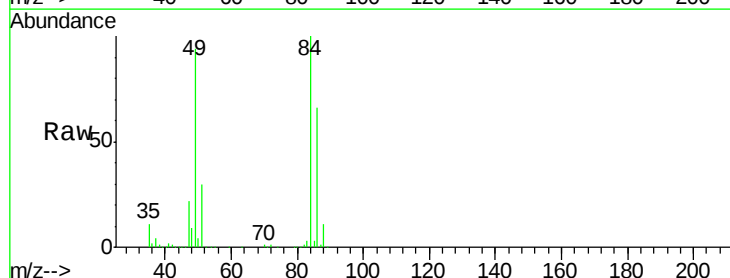
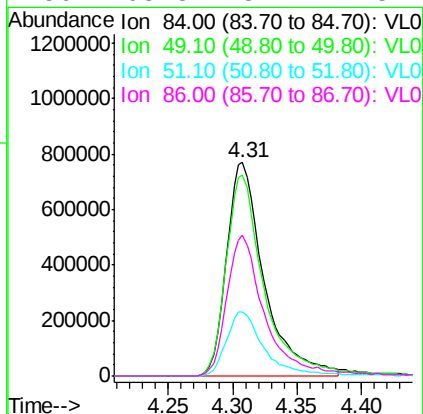
Ion Ratio Lower Upper

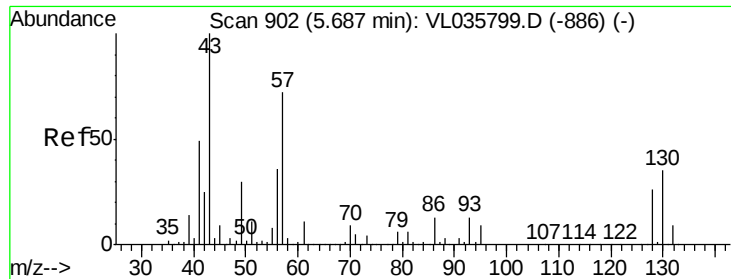
84 100

49 93.8 73.8 110.8

51 30.1 23.0 34.4

86 65.8 52.1 78.1





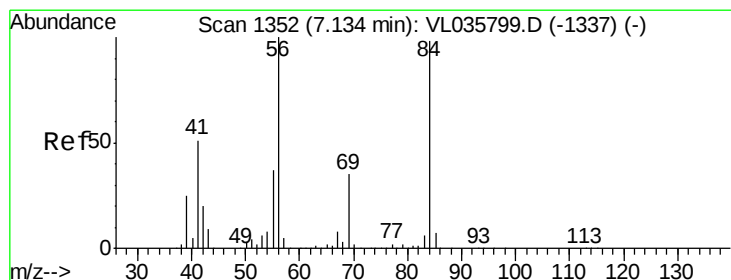
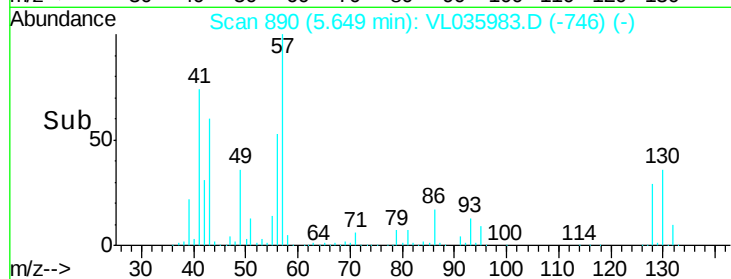
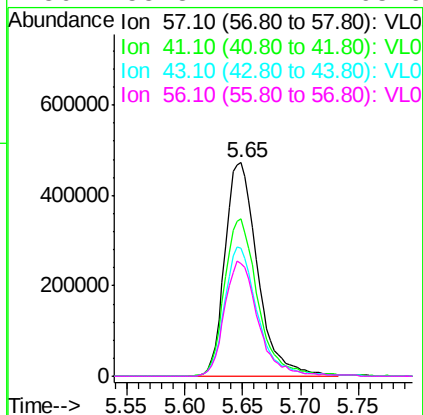
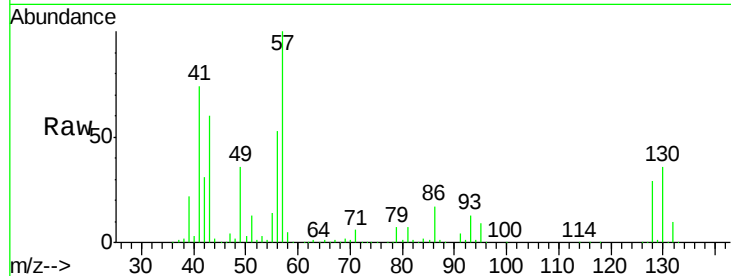
#26
Hexane
Concen: 7.067 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.04 min
Lab File: VL035983.D
Acq: 18 Nov 2020 21:26

Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

Tot Ion	57	Resp	921501
Ion Ratio	Lower	Upper	
57	100		
41	75.8	58.9	88.3
43	61.1	150.2	225.2#
56	55.8	42.4	63.6

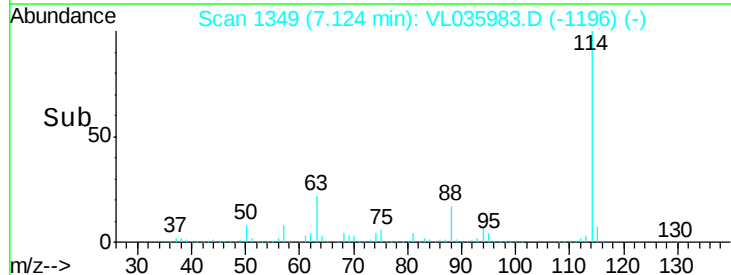
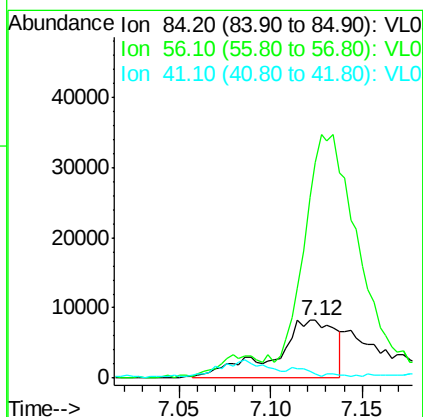
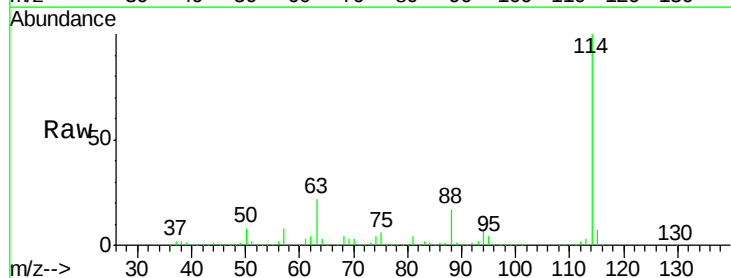
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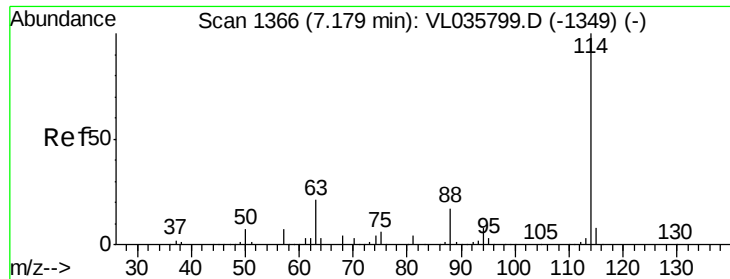
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#30
Cyclohexane
Concen: 0.135 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL035983.D
Acq: 18 Nov 2020 21:26

Tgt Ion	84	Resp	19117
Ion Ratio	Lower	Upper	
84	100		
56	0.0	86.4	129.6#
41	0.0	42.1	63.1#





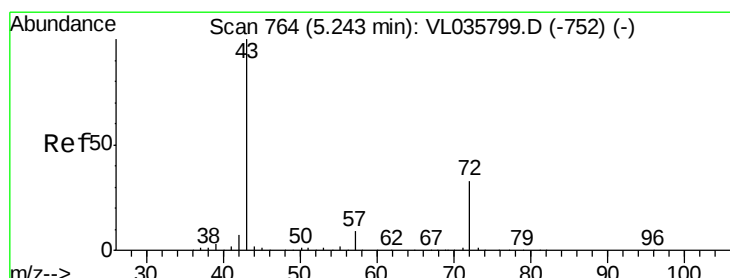
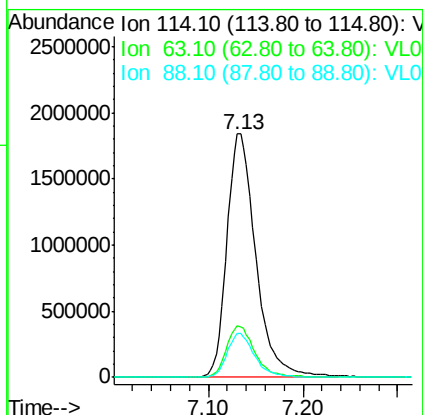
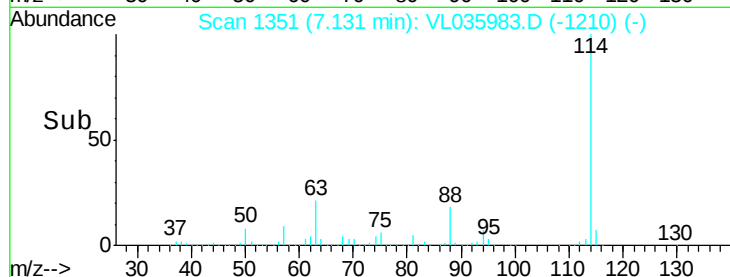
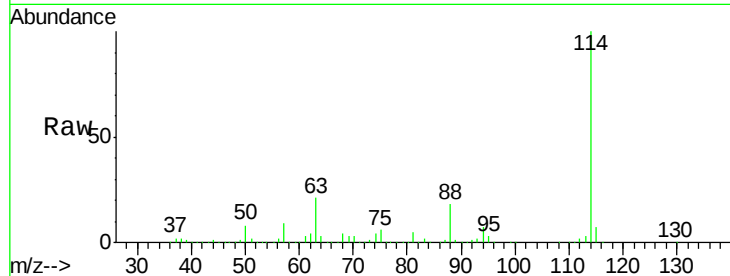
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.13 min Scan# 1351
 Delta R.T. -0.05 min
 Lab File: VL035983.D
 Acq: 18 Nov 2020 21:26

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.1	24.1
88	17.4	13.7	20.5

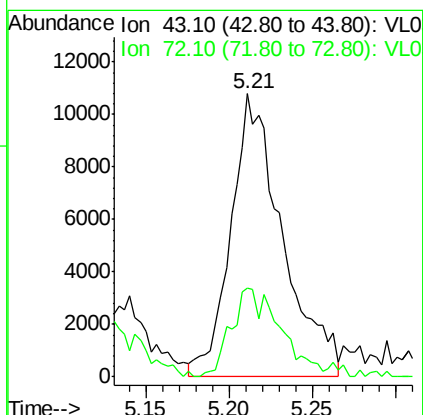
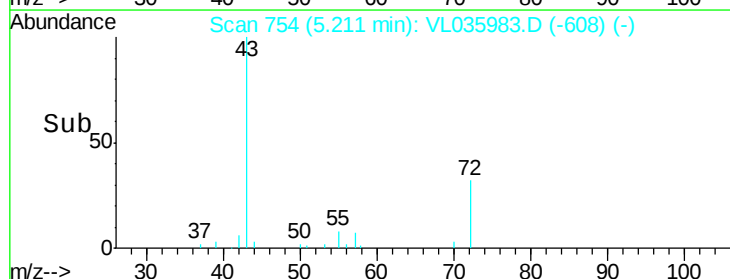
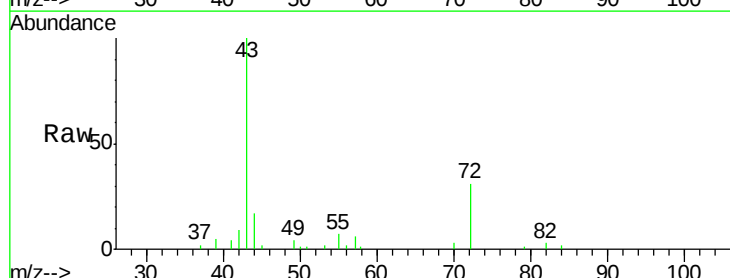
Manual Integrations
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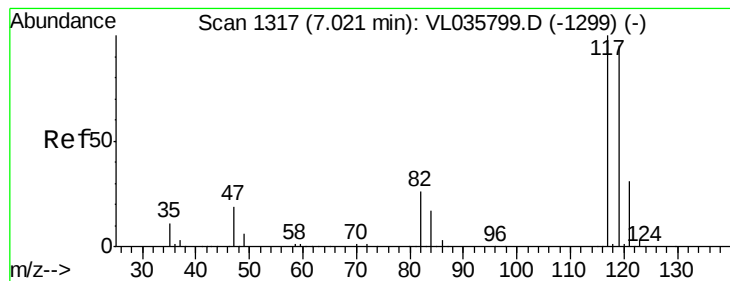
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#34
 2-Butanone
 Concen: 0.183 ppbv m
 RT: 5.21 min Scan# 754
 Delta R.T. -0.03 min
 Lab File: VL035983.D
 Acq: 18 Nov 2020 21:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.1	26.5	39.7





#35

Carbon Tetrachloride

Concen: 0.067 ppbv

RT: 6.97 min Scan# 1302

Delta R.T. -0.05 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion: 117 Resp: 13943

Ion Ratio Lower Upper

117 100

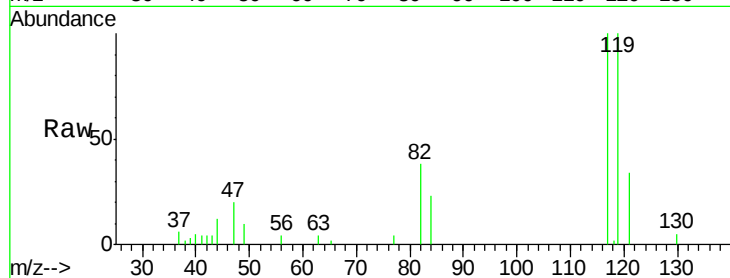
119 100.4 75.6 113.4

121 34.3 25.1 37.7

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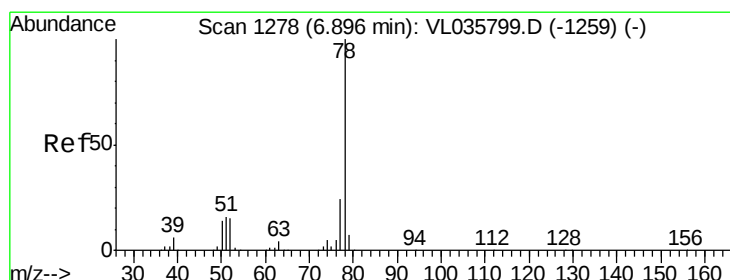
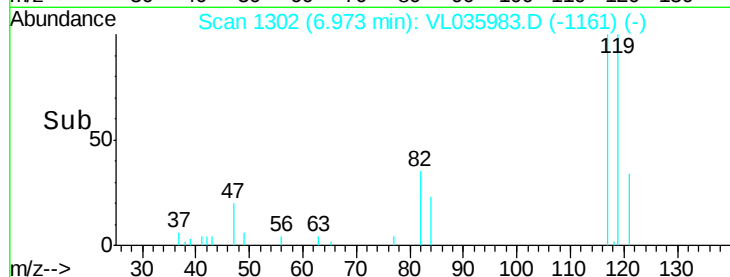
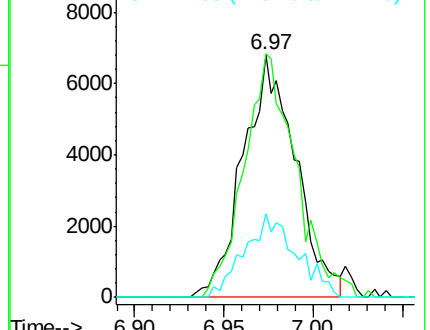
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.195 ppbv

RT: 6.85 min Scan# 1263

Delta R.T. -0.05 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

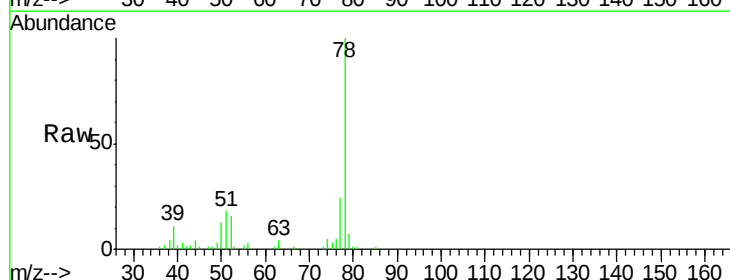
Tgt Ion: 78 Resp: 56712

Ion Ratio Lower Upper

78 100

77 24.1 19.3 28.9

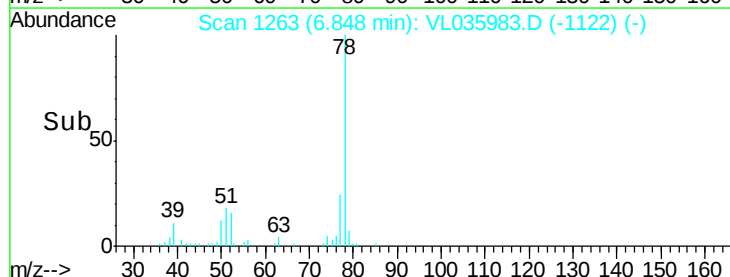
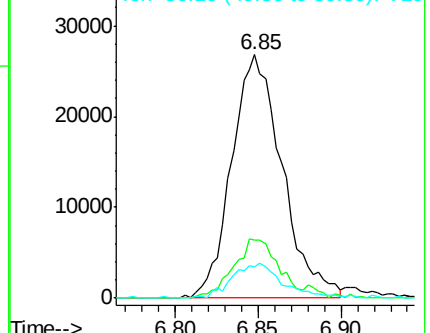
50 12.8 11.4 17.2

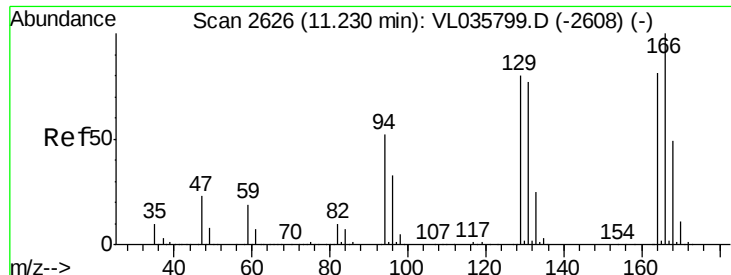


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#52

Tetrachloroethene

Concen: 0.090 ppbv m

RT: 11.18 min Scan# 2609

Delta R.T. -0.05 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Instrument :

MSVOA_L

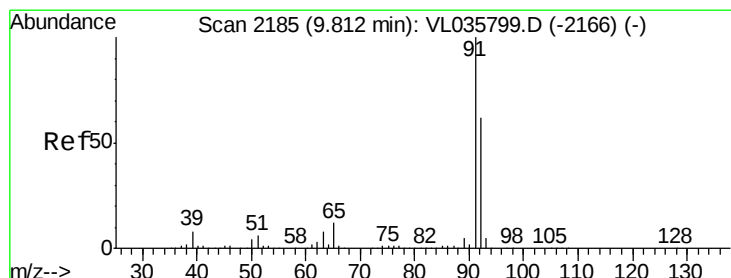
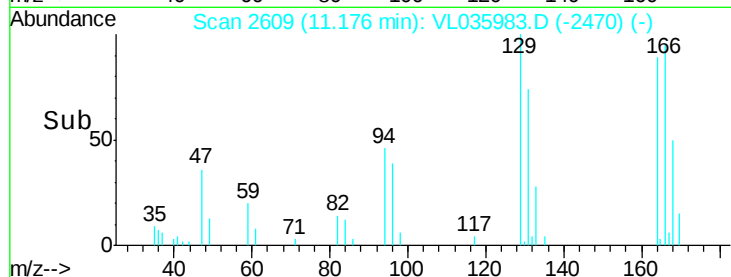
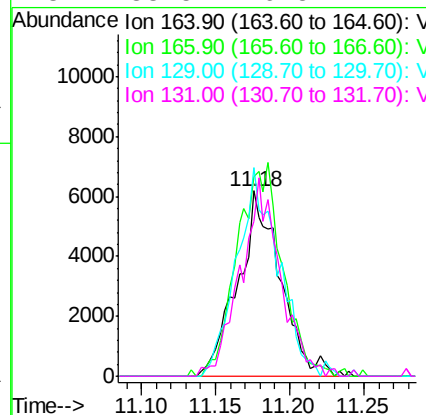
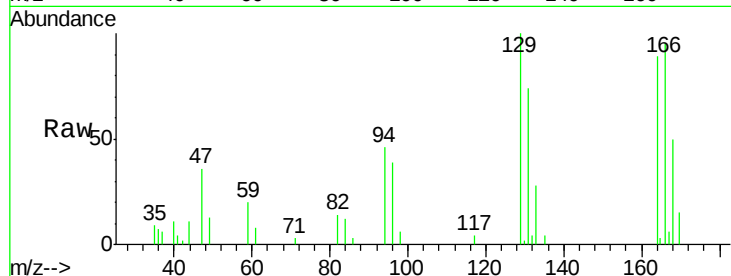
ClientSampled :

IA2DUP

Tot Ion	164	Resp	12360
Ion	Ratio	Lower	Upper
164	100		
166	107.6	99.3	148.9
129	112.7	79.3	118.9
131	83.5	76.5	114.7

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#53

Toluene

Concen: 2.178 ppbv

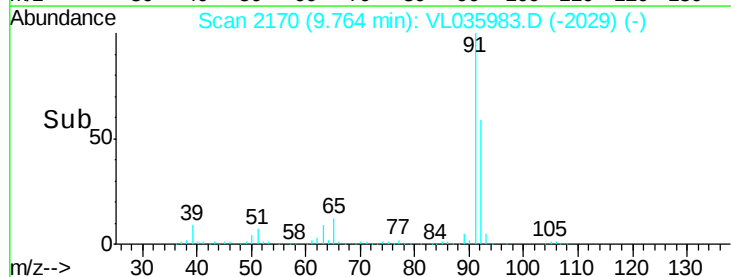
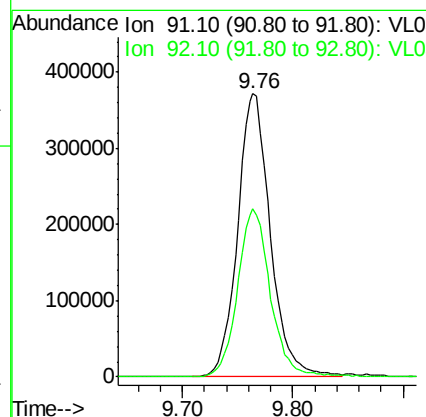
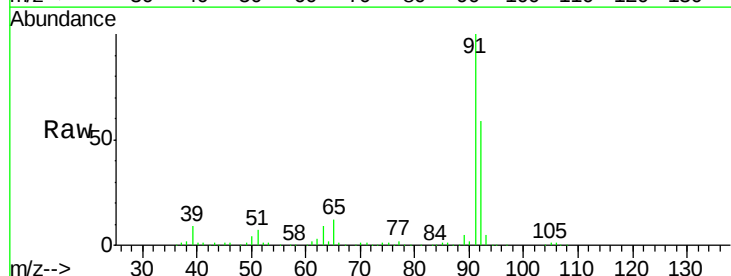
RT: 9.76 min Scan# 2170

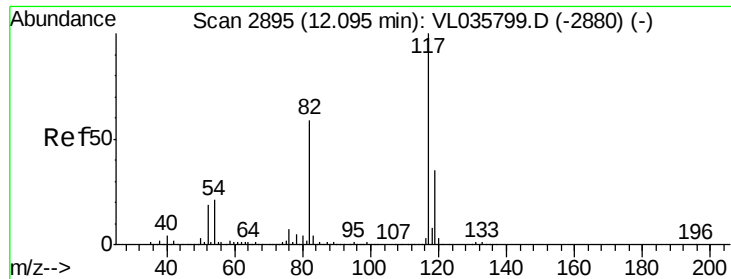
Delta R.T. -0.05 min

Lab File: VL035983.D

Acq: 18 Nov 2020 21:26

Tgt Ion	91	Resp	764436
Ion	Ratio	Lower	Upper
91	100		
92	59.9	49.8	74.6





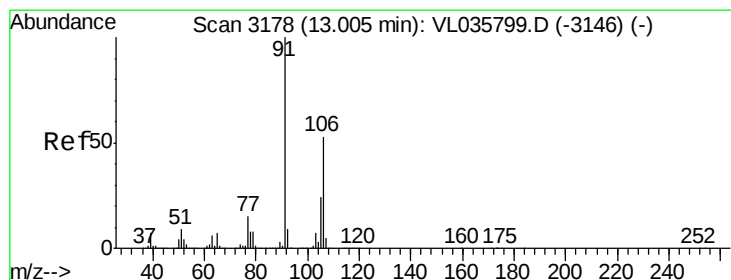
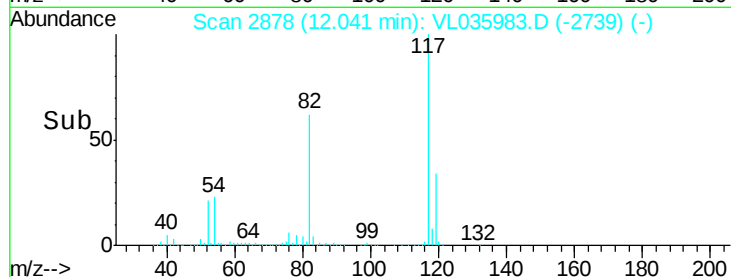
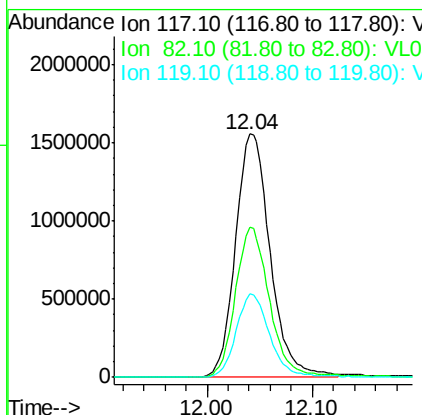
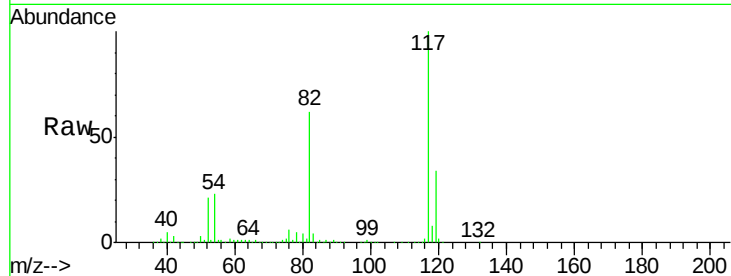
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min Scan# 2878
Delta R.T. -0.05 min
Lab File: VL035983.D
Acq: 18 Nov 2020 21:26

Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

Tot Ion:117 Resp: 3556760
Ion Ratio Lower Upper
117 100
82 62.0 50.6 76.0
119 33.9 52.6 78.8#

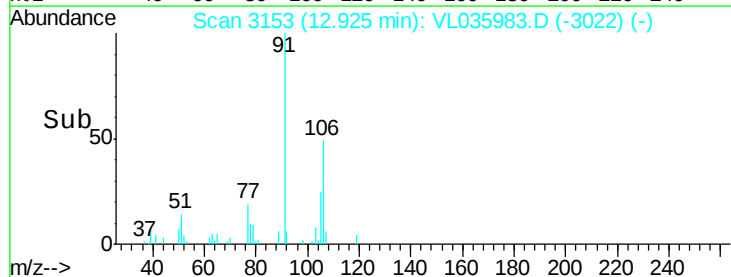
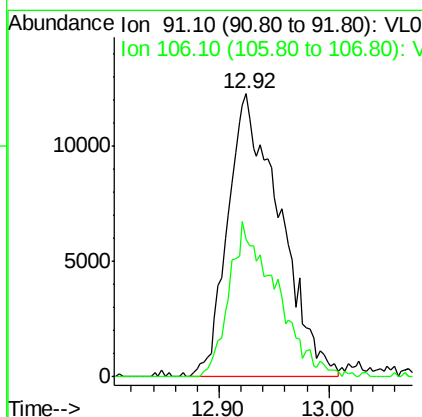
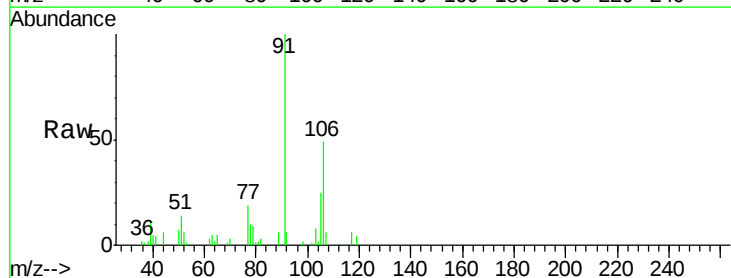
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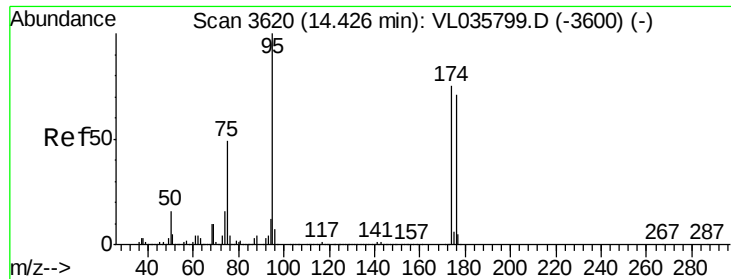
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#59
m/p-Xylene
Concen: 0.110 ppbv m
RT: 12.92 min Scan# 3153
Delta R.T. -0.08 min
Lab File: VL035983.D
Acq: 18 Nov 2020 21:26

Tgt Ion: 91 Resp: 40295
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.532 ppbv
 RT: 14.37 min Scan# 3603
 Delta R.T. -0.05 min
 Lab File: VL035983.D
 Acq: 18 Nov 2020 21:26

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DUP

Tot Ion:	95	Resp:	2661341
Ion	Ratio	Lower	Upper
95	100		
174	71.1	59.8	89.6
175	4.9	4.3	6.5

Manual Integrations
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