

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035942.D
 Acq On : 16 Nov 2020 13:58
 Operator : SY/AP
 Sample : L4755-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AS-EFF-201112DL

Manual Integrations
 APPROVED

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 11/18/2020 9:06:28 AM

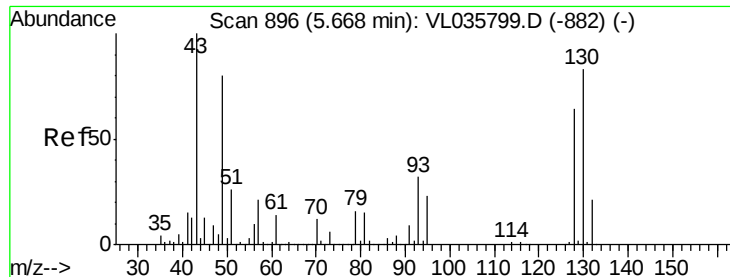
Quant Time: Nov 17 21:44:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1251493	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4233297	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4128198	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3043357	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	66499	0.282	ppbv	99
3) Chlorodifluoromethane	2.98	51	104918	0.700	ppbv	100
11) Trichlorofluoromethane	3.95	101	563930	1.906	ppbv	100
13) Ethanol	3.61	45	47185m	3.965	ppbv	
18) 1,1-Dichloroethene	4.29	96	38329	0.379	ppbv	96
24) 1,1-Dichloroethane	5.01	63	28251	0.158	ppbv	97
28) Methyl tert-Butyl Ether	5.05	73	39103	0.150	ppbv	96
31) cis-1,2-Dichloroethene	5.55	61	229410	1.534	ppbv	92
32) 1,1,1-Trichloroethane	6.51	97	12215m	0.041	ppbv	
35) Carbon Tetrachloride	7.01	117	10003m	0.044	ppbv	
38) Trichloroethene	7.84	130	2035814	13.243	ppbv	98
52) Tetrachloroethene	11.23	164	1475138	9.893	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112DL

Tot Ion: 49 Resp: 1251493

Ion Ratio Lower Upper

49 100

128 76.0 41.5 124.6

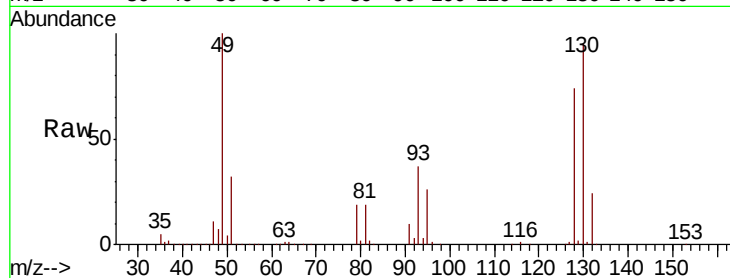
130 96.7 53.7 161.1

Manual Integrations

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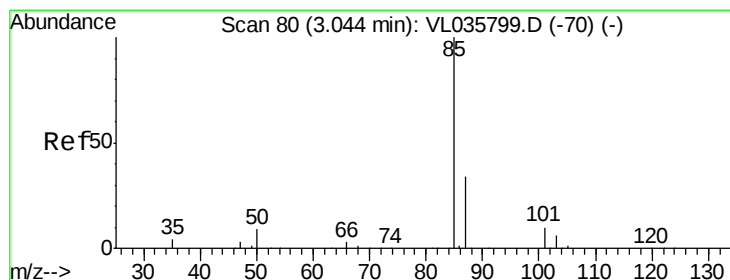
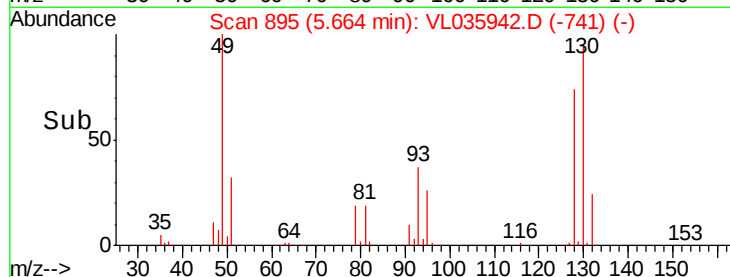
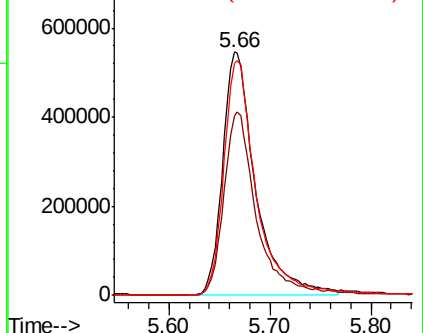
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.282 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035942.D

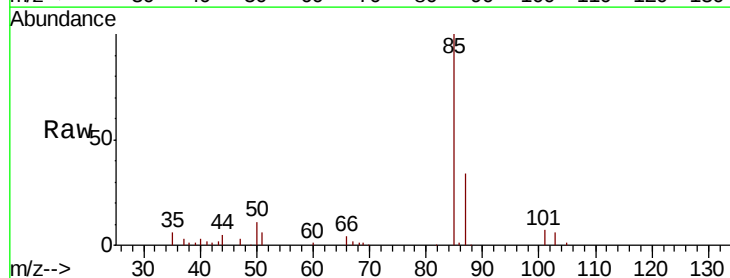
Acq: 16 Nov 2020 13:58

Tgt Ion: 85 Resp: 66499

Ion Ratio Lower Upper

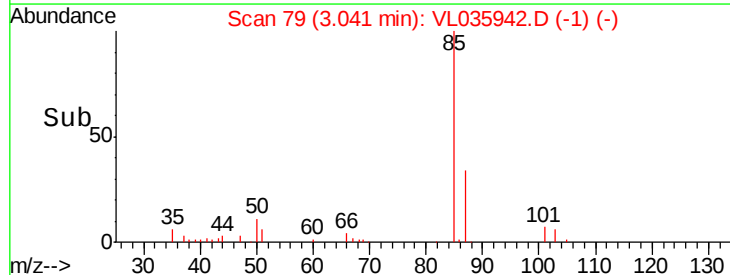
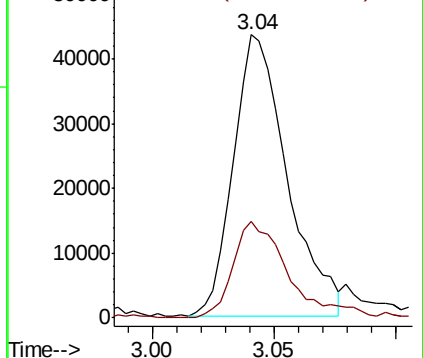
85 100

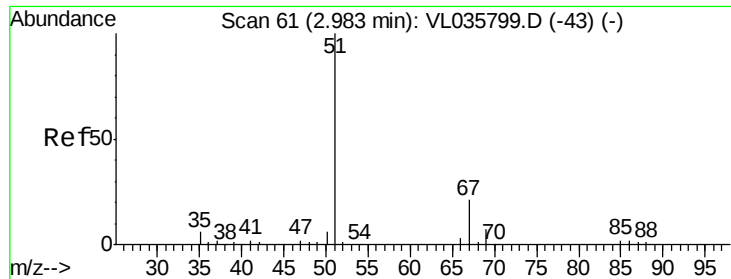
87 34.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.700 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112DL

Tot Ion: 51 Resp: 104918

Ion Ratio Lower Upper

51 100

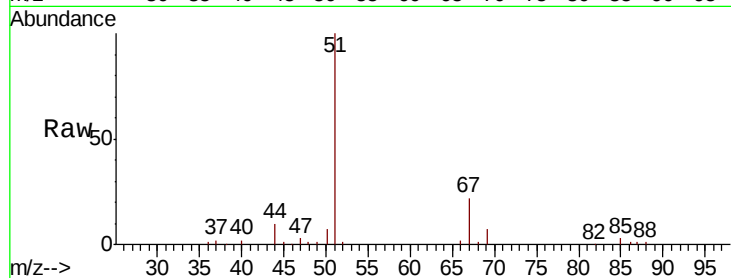
67 21.1 17.0 25.4

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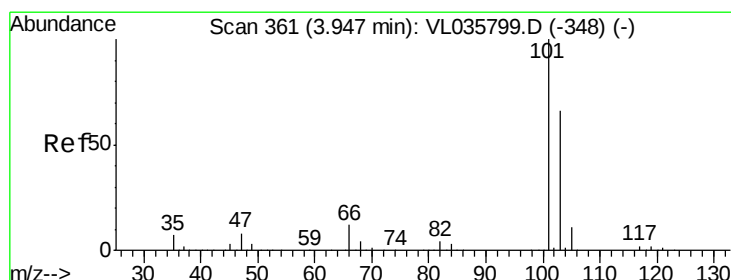
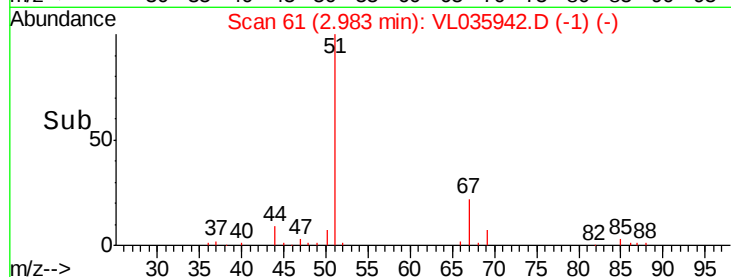
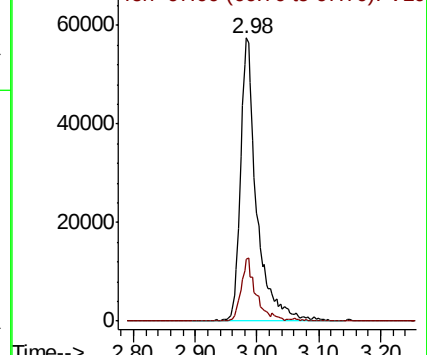
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#11

Trichlorofluoromethane

Concen: 1.906 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL035942.D

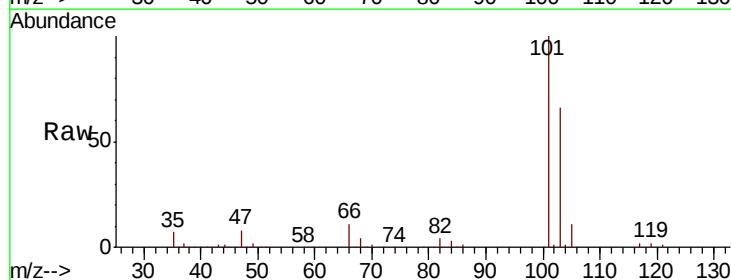
Acq: 16 Nov 2020 13:58

Tgt Ion:101 Resp: 563930

Ion Ratio Lower Upper

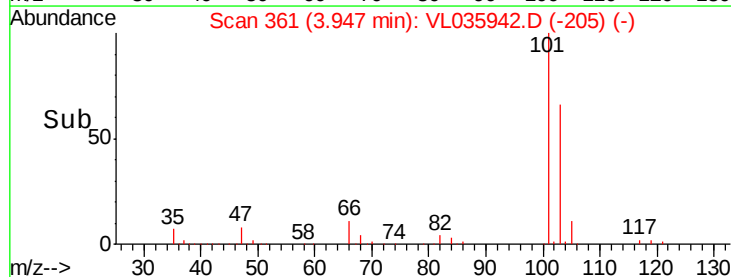
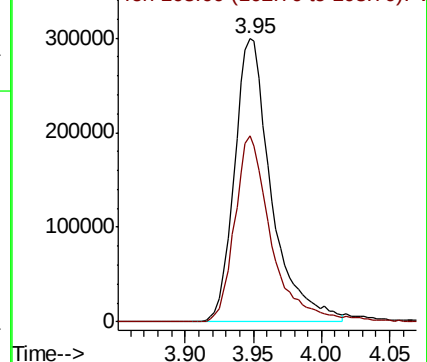
101 100

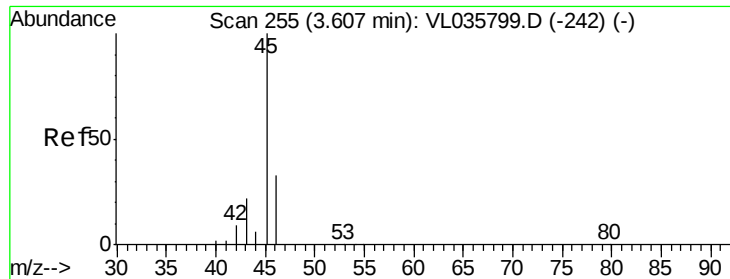
103 65.9 53.0 79.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 3.965 ppbv m

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112DL

Tot Ion: 45 Resp: 47185

Ion Ratio Lower Upper

45 100

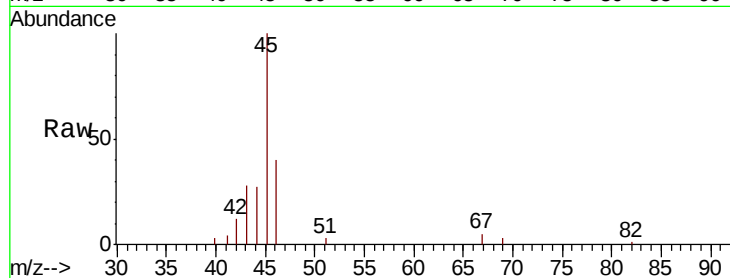
46 39.1 16.1 64.5

Manual Integrations

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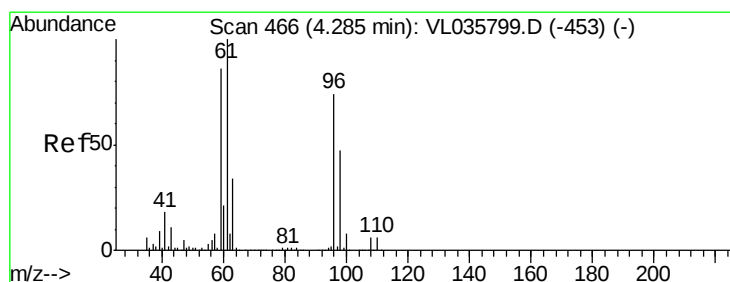
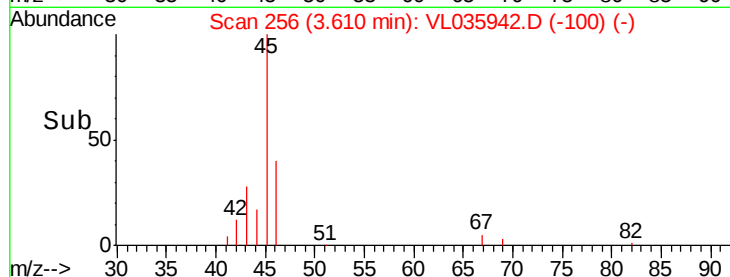
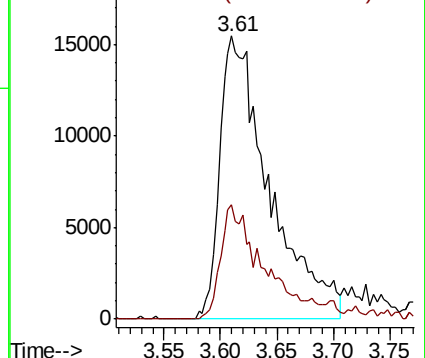
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#18

1,1-Dichloroethene

Concen: 0.379 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

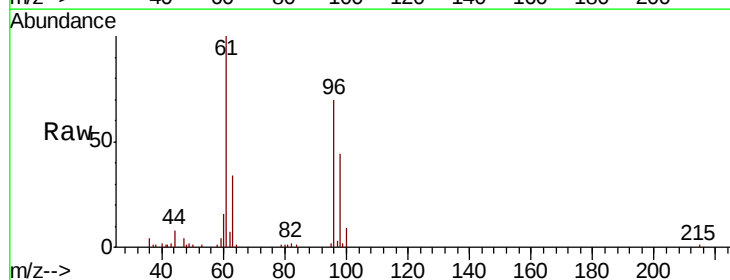
Tgt Ion: 96 Resp: 38329

Ion Ratio Lower Upper

96 100

61 142.4 108.5 162.7

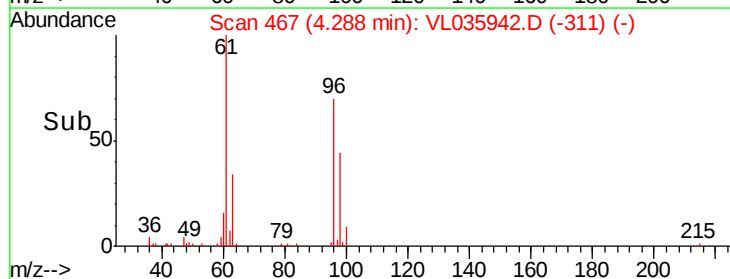
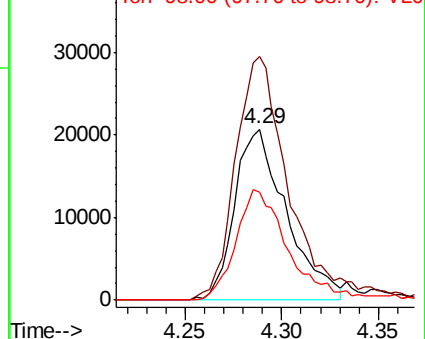
98 62.9 50.7 76.1

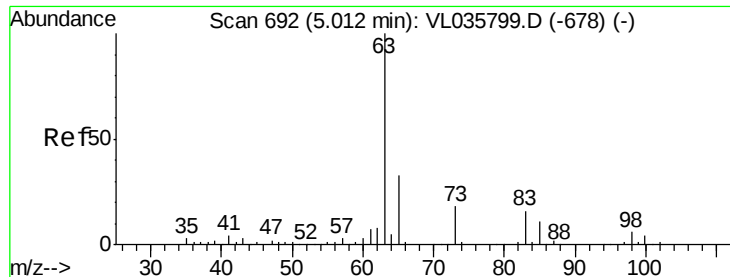


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





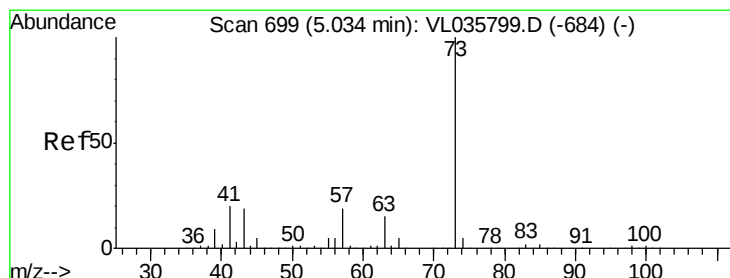
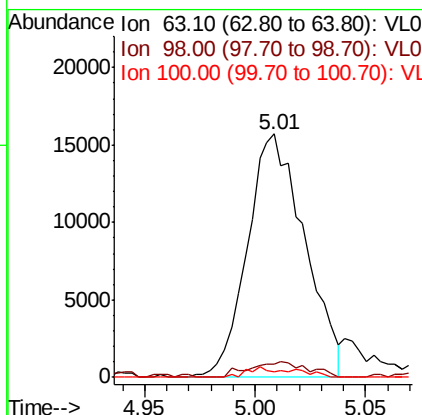
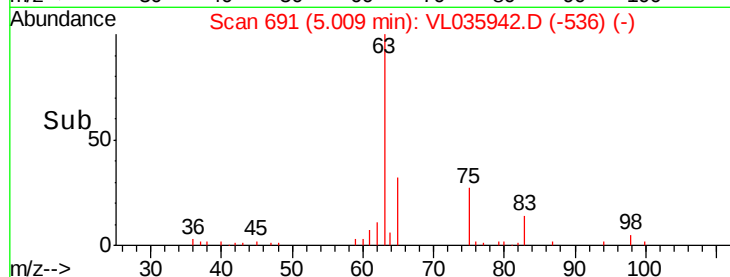
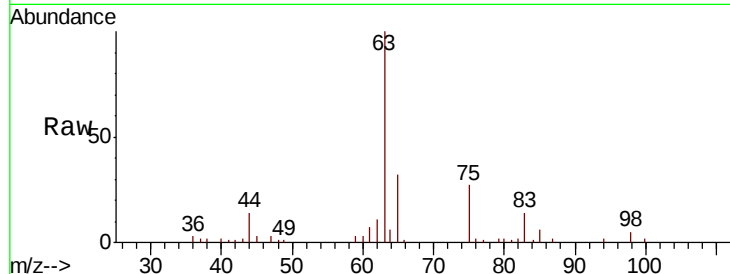
#24
1,1-Dichloroethane
Concen: 0.158 ppbv
RT: 5.01 min Scan# 691
Delta R.T. -0.00 min
Lab File: VL035942.D
Acq: 16 Nov 2020 13:58

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112DL

Tot Ion	Ratio	Lower	Upper
63	100		
98	5.2	3.0	9.2
100	2.3	1.8	5.4

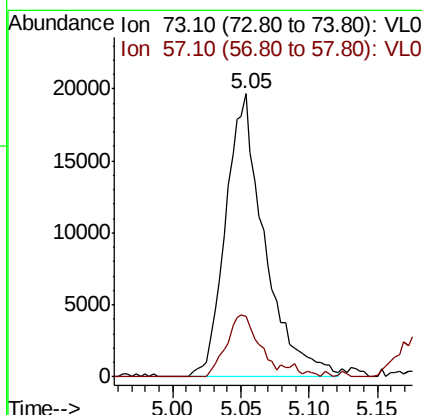
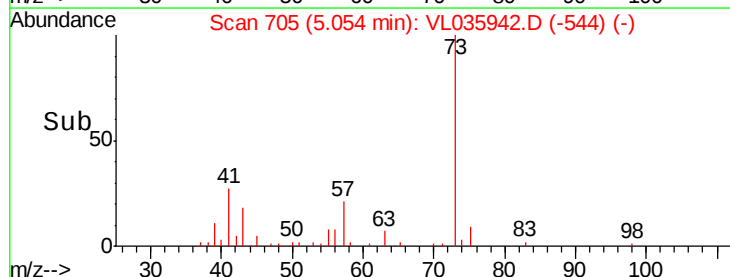
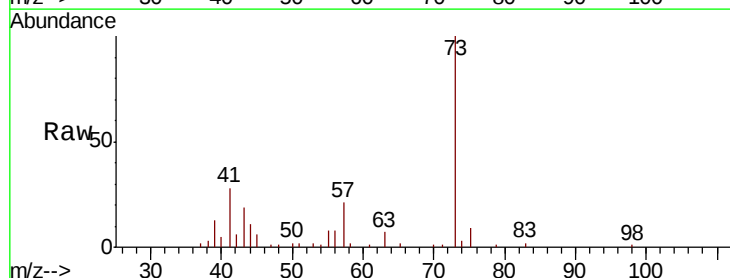
Manual Integrations
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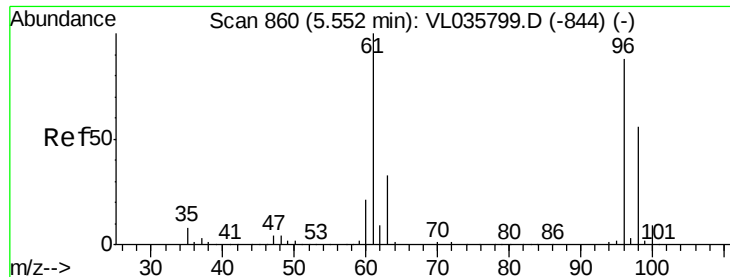
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#28
Methyl tert-Butyl Ether
Concen: 0.150 ppbv
RT: 5.05 min Scan# 705
Delta R.T. 0.02 min
Lab File: VL035942.D
Acq: 16 Nov 2020 13:58

Tgt Ion	Ratio	Lower	Upper
73	100		
57	20.9	15.4	23.2





#31

cis-1,2-Dichloroethene

Concen: 1.534 ppbv

RT: 5.55 min Scan# 860

Delta R.T. -0.00 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

Instrument :

MSVOA_L

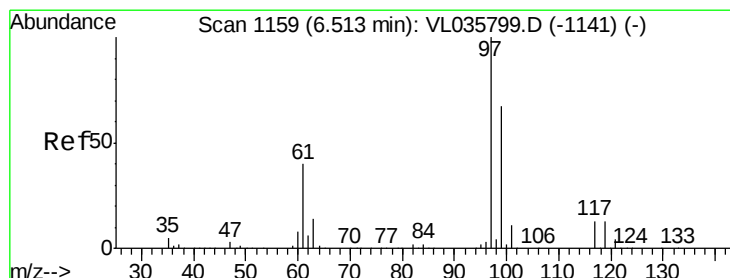
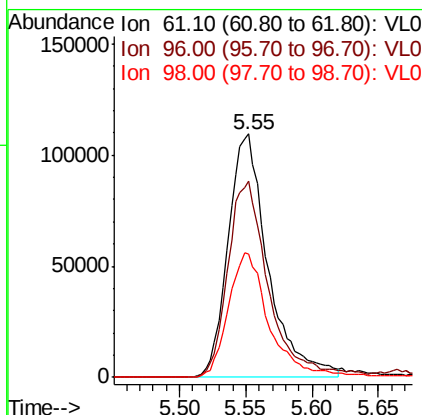
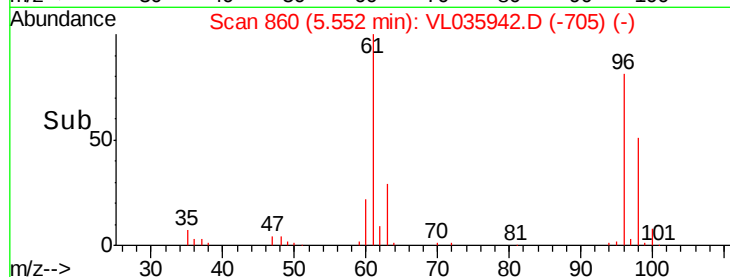
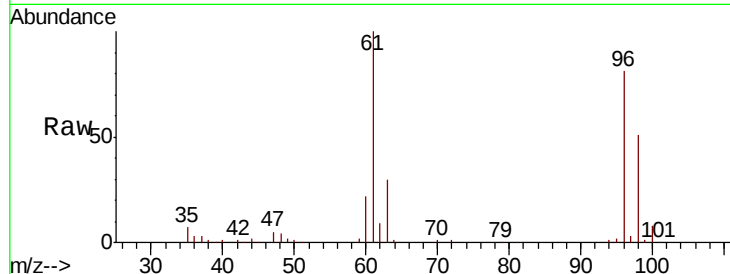
ClientSampleId :

AS-EFF-201112DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
61	100		229410		
96	80.7	70.3	105.5		
98	50.8	45.0	67.6		

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#32

1,1,1-Trichloroethane

Concen: 0.041 ppbv m

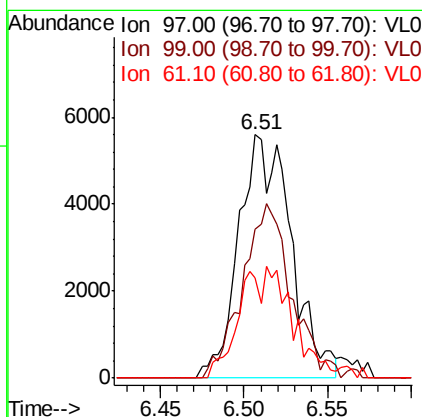
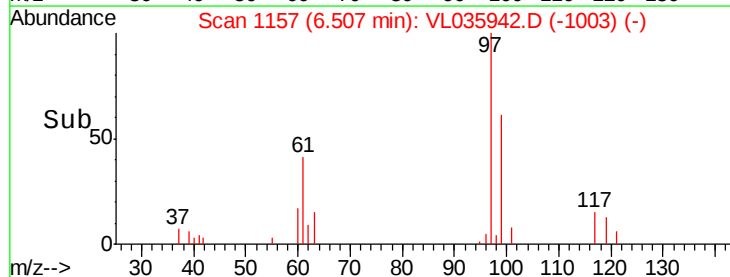
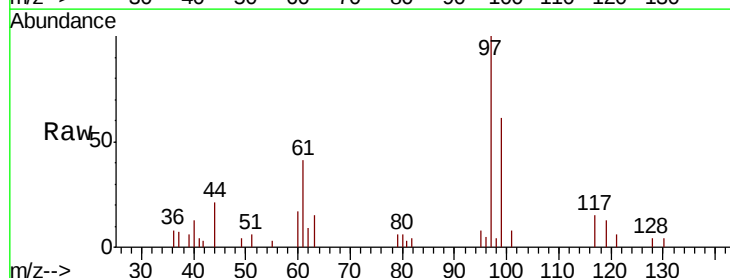
RT: 6.51 min Scan# 1157

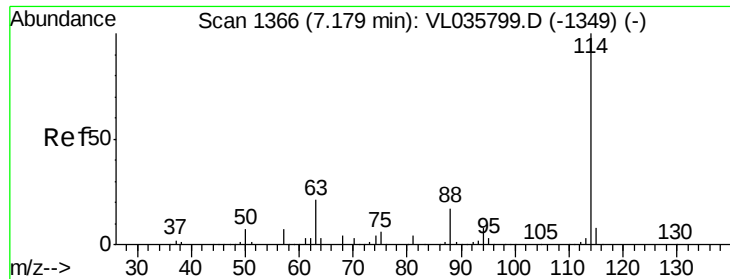
Delta R.T. -0.01 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		12215		
99	67.9	52.3	78.5		
61	47.7	32.0	48.0		





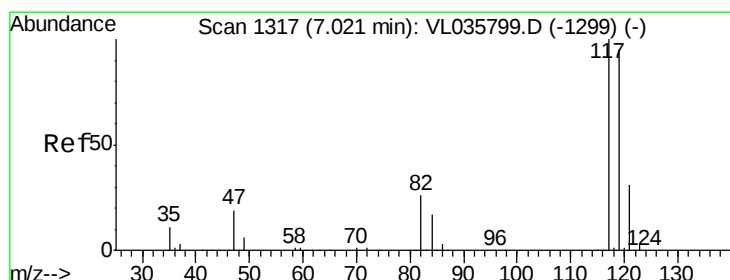
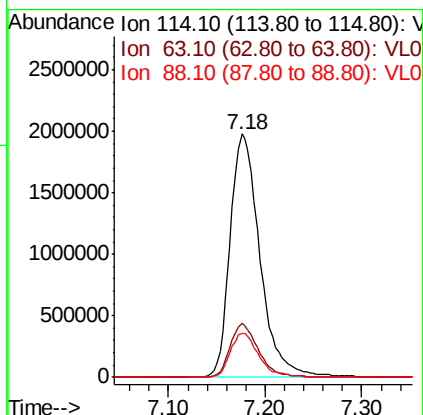
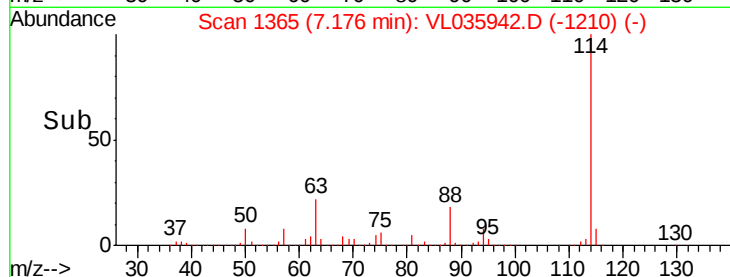
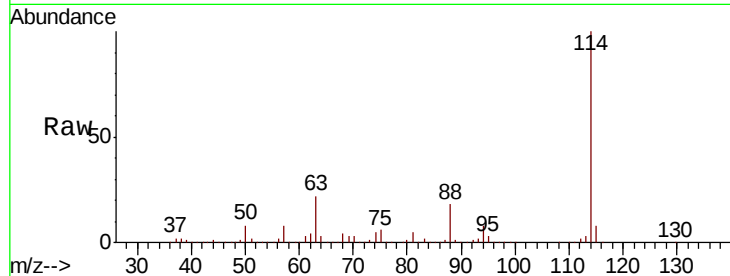
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL035942.D
Acq: 16 Nov 2020 13:58

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112DL

Tot Ion:114 Resp: 4233297
Ion Ratio Lower Upper
114 100
63 21.4 16.1 24.1
88 17.7 13.7 20.5

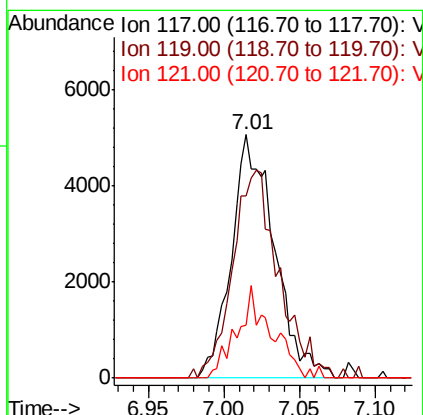
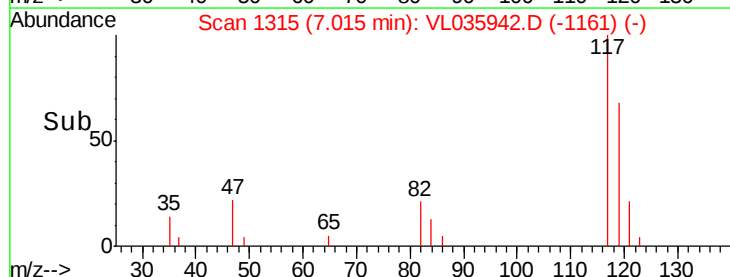
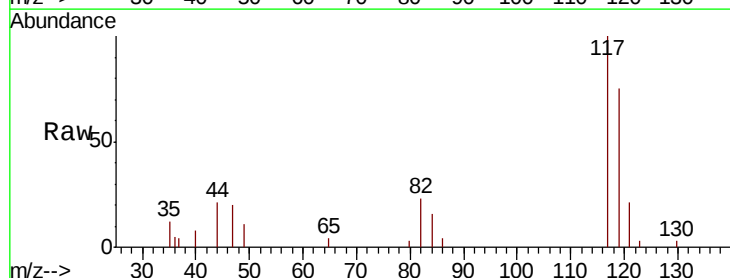
Manual Integrations
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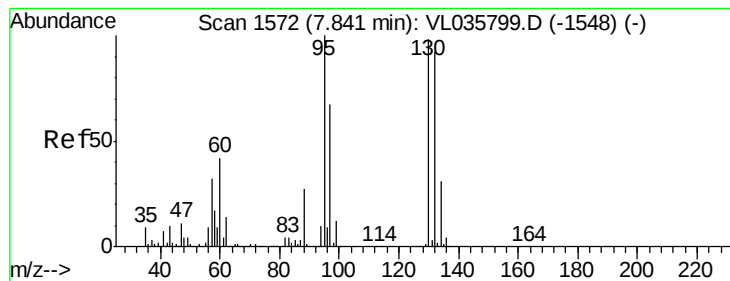
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#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL035942.D
Acq: 16 Nov 2020 13:58

Tgt Ion:117 Resp: 10003
Ion Ratio Lower Upper
117 100
119 75.0 75.6 113.4#
121 21.5 25.1 37.7#





#38

Trichloroethene

Concen: 13.243 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

Instrument :

MSVOA_L

ClientSampleId :

AS-EFF-201112DL

Tot Ion:130 Resp: 2035814

Ion Ratio Lower Upper

130 100

95 105.7 81.6 122.4

132 94.4 75.1 112.7

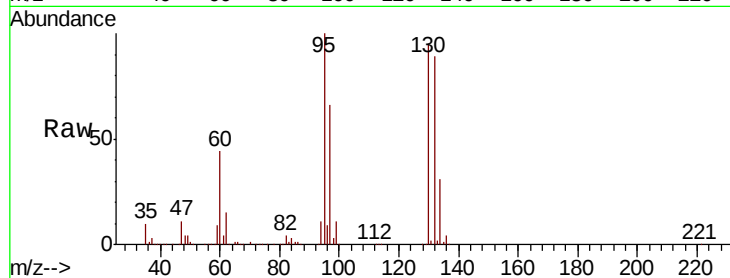
97 69.6 54.6 81.8

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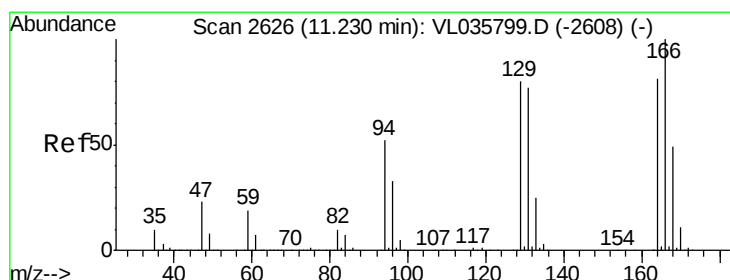
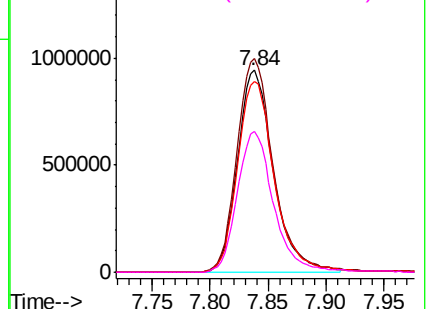
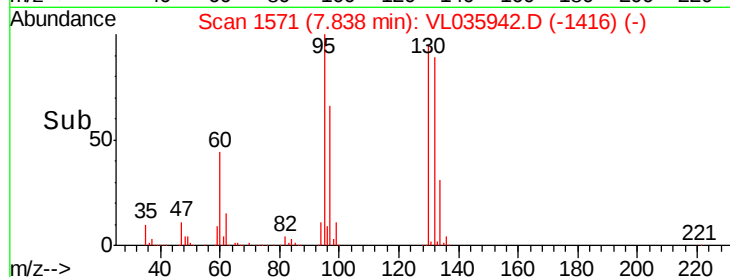
Abundance

Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#52

Tetrachloroethene

Concen: 9.893 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL035942.D

Acq: 16 Nov 2020 13:58

Tgt Ion:164 Resp: 1475138

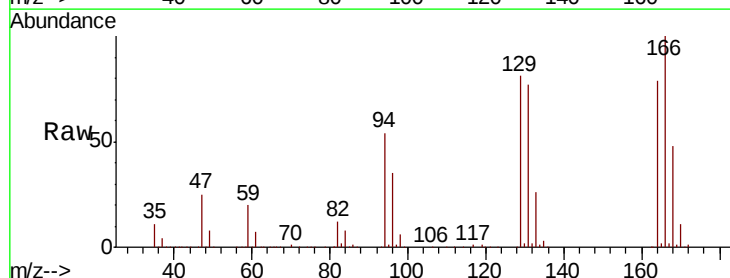
Ion Ratio Lower Upper

164 100

166 126.4 99.3 148.9

129 101.8 79.3 118.9

131 97.2 76.5 114.7



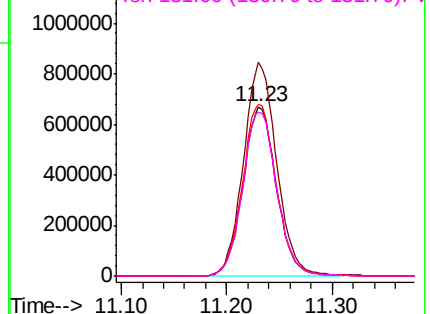
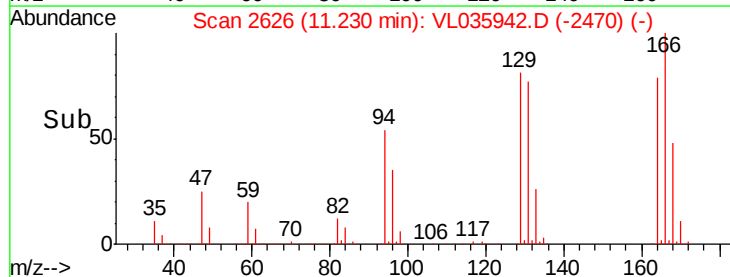
Abundance

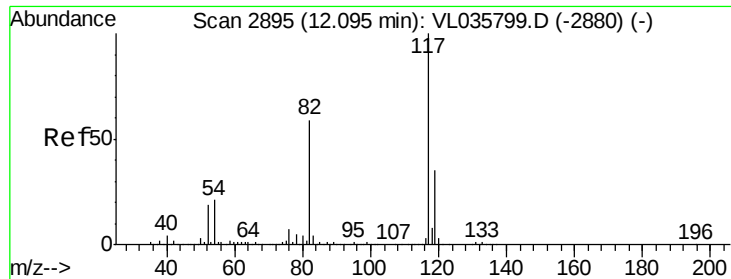
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





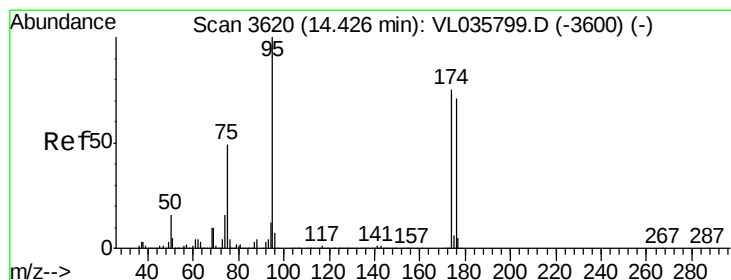
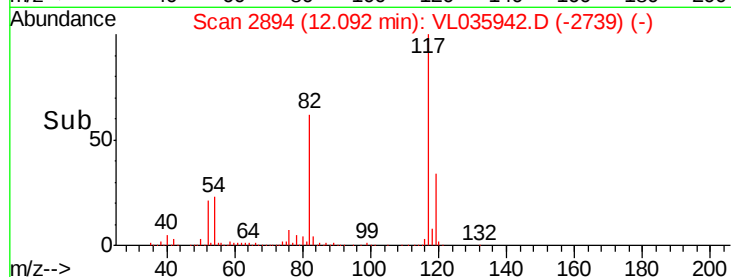
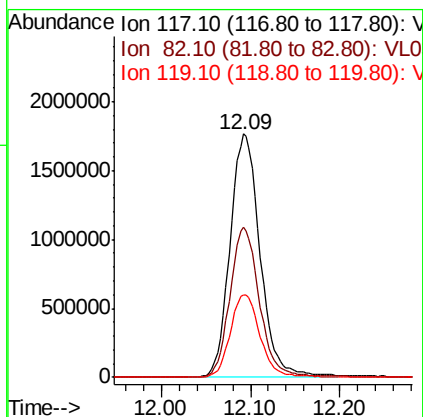
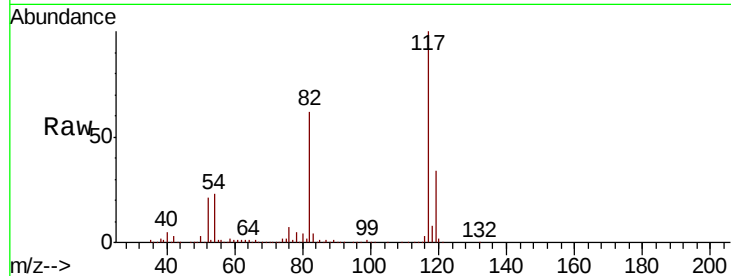
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035942.D
Acq: 16 Nov 2020 13:58

Instrument :
MSVOA_L
ClientSampleId :
AS-EFF-201112DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.8	50.6	76.0
119	34.1	52.6	78.8#

Manual Integrations
APPROVED

MMDadoda
11/18/2020 9:06:28 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.376 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL035942.D
Acq: 16 Nov 2020 13:58

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.9	59.8	89.6
175	5.1	4.3	6.5

