

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
 Data File : VL032820.D
 Acq On : 27 Nov 2018 23:27
 Operator : SY/AP
 Sample : J6046-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-05

Manual Integrations
 APPROVED

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 11/28/2018 4:21:35 PM

Quant Time: Nov 28 15:58:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1290211	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3297283	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2981054	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2222269	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	314831	1.70	ppbv	98
3) Chlorodifluoromethane	3.01	51	23467442m	229.42	ppbv	
9) Propene	3.05	41	628462	15.35	ppbv	99
11) Trichlorofluoromethane	4.02	101	5469395	31.29	ppbv	97
13) Ethanol	3.66	45	1128283	84.15	ppbv	98
15) Acetone	3.91	43	2551299	21.65	ppbv #	51
19) Isopropyl Alcohol	4.04	45	994892m	12.68	ppbv	
20) Methylene Chloride	4.42	84	51471m	0.84	ppbv	
26) Hexane	5.80	57	74726	0.61	ppbv #	1
29) Chloroform	5.86	83	38176	0.18	ppbv	90
32) 1,1,1-Trichloroethane	6.63	97	31301	0.13	ppbv	96
34) 2-Butanone	5.34	43	10556952	61.73	ppbv	94
35) Carbon Tetrachloride	7.15	117	9892m	0.04	ppbv	
36) Benzene	7.02	78	96439	0.37	ppbv	96
41) Tetrahydrofuran	6.16	42	458961	4.68	ppbv	100
51) 2-Hexanone	10.30	43	118284m	0.69	ppbv	
52) Tetrachloroethene	11.39	164	431741	4.73	ppbv	94
53) Toluene	9.96	91	624876	2.28	ppbv	98
58) Ethyl Benzene	12.88	91	42995m	0.12	ppbv	
59) m/p-Xylene	13.14	91	104844m	0.33	ppbv	

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

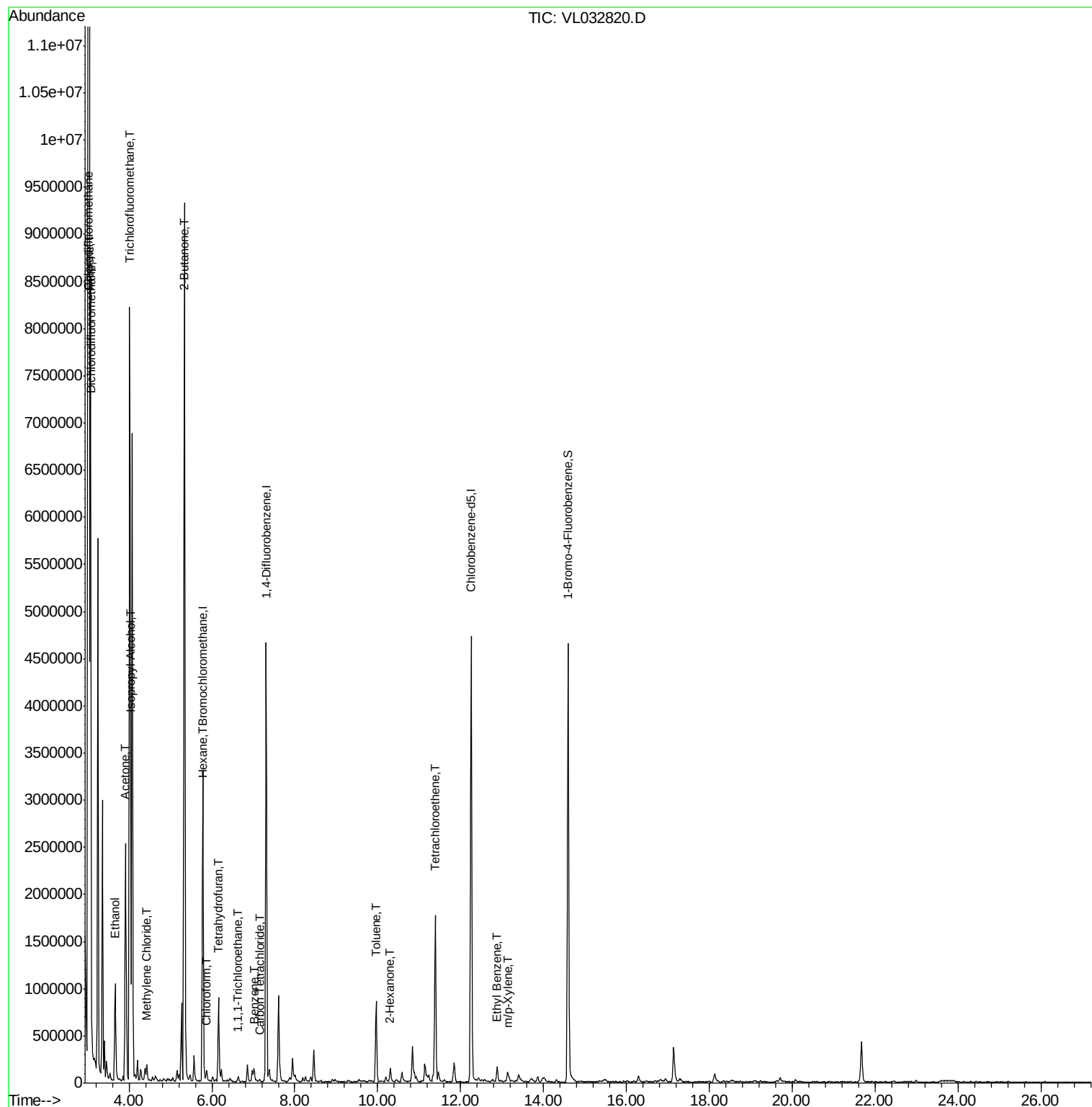
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
Data File : VL032820.D
Acq On : 27 Nov 2018 23:27
Operator : SY/AP
Sample : J6046-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

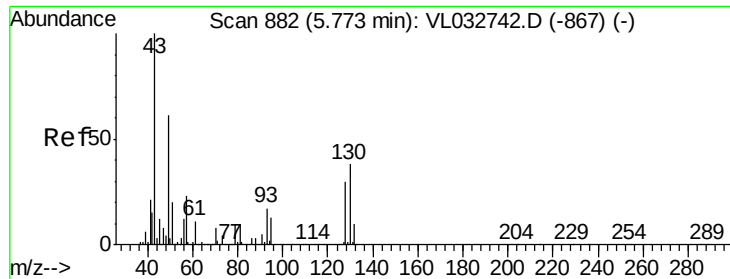
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05

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Quant Time: Nov 28 15:58:19 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

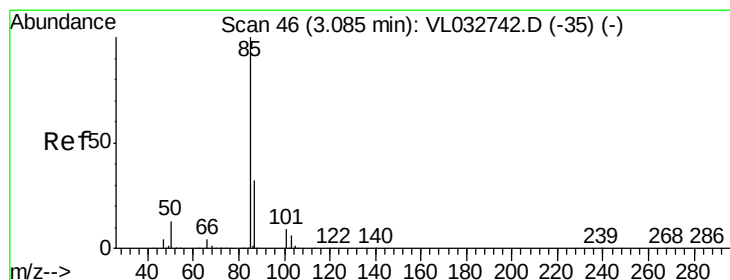
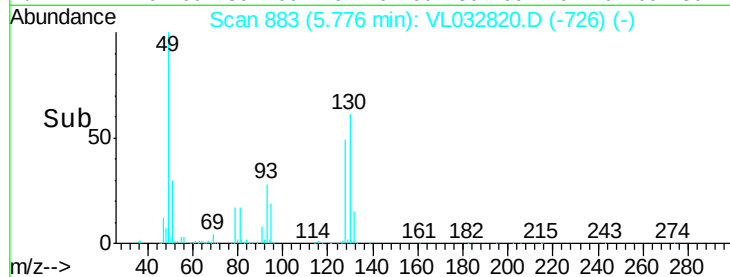
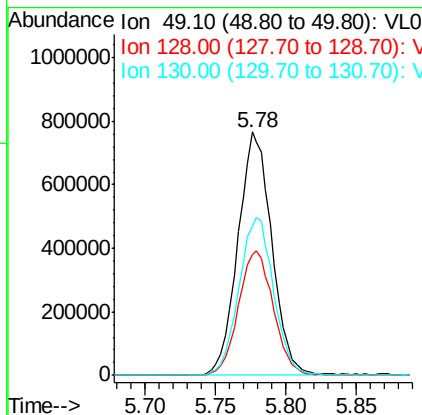
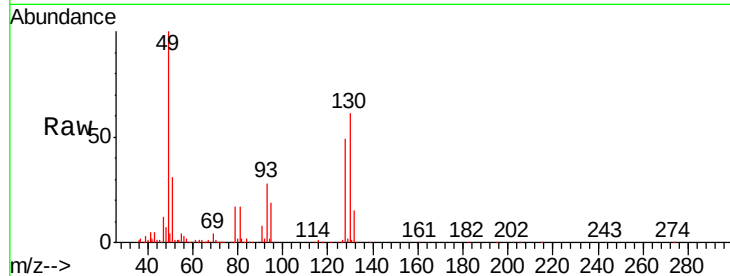
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.78 min Scan# 883
 Delta R.T. 0.00 min
 Lab File: VL032820.D
 Acq: 27 Nov 2018 23:27

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-05

Tgt Ion	Ratio	Lower	Upper
49	100		
128	52.9	24.9	74.6
130	66.8	31.4	94.2

Manual Integrations
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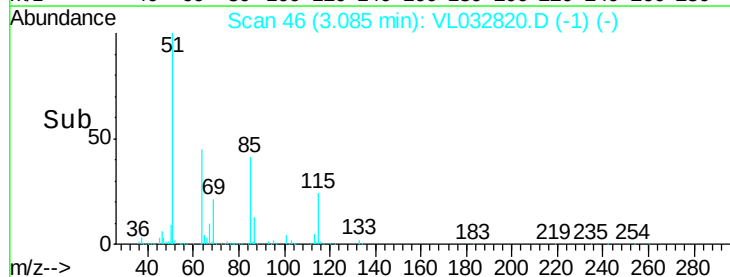
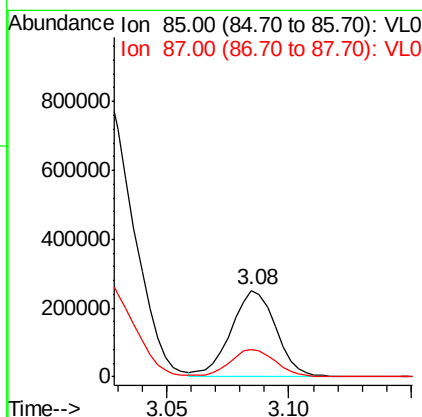
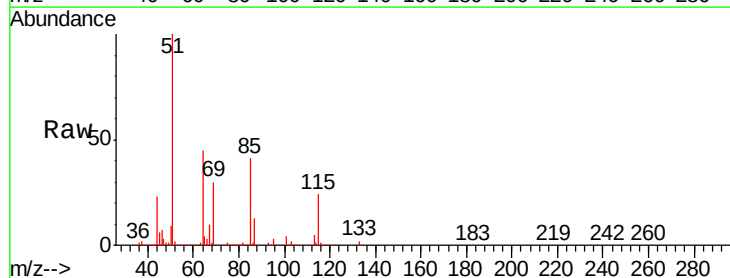
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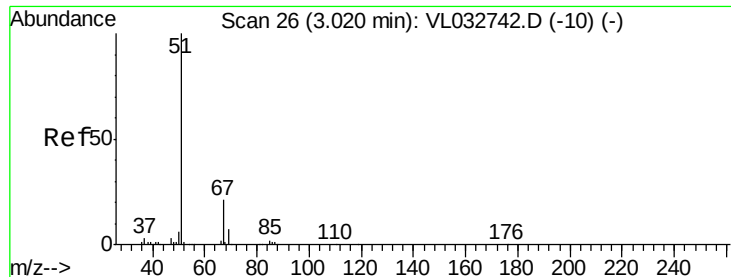


#2

Dichlorodifluoromethane
 Concen: 1.70 ppbv
 RT: 3.08 min Scan# 46
 Delta R.T. 0.00 min
 Lab File: VL032820.D
 Acq: 27 Nov 2018 23:27

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.5	26.0	39.0





#3

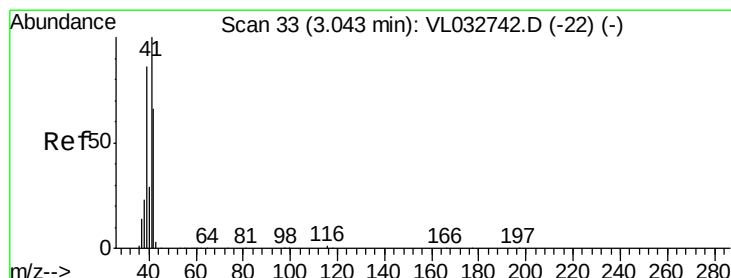
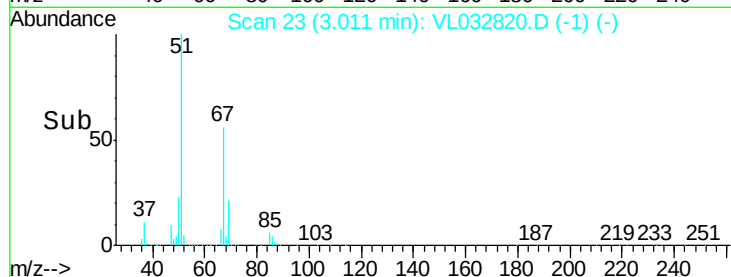
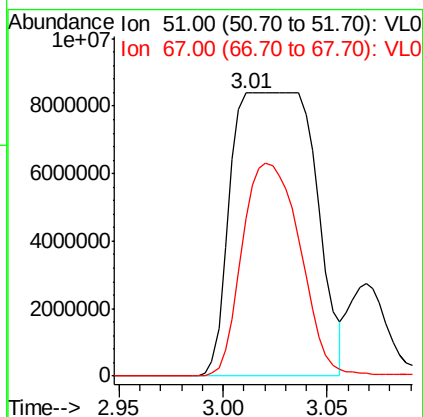
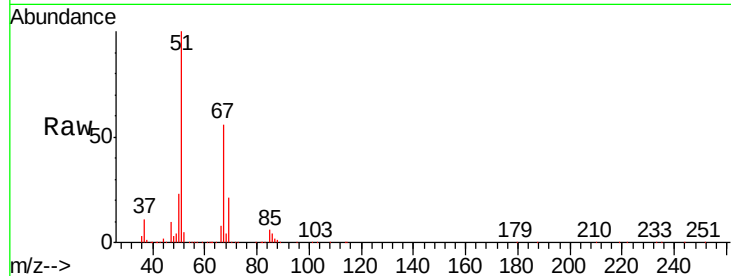
Chlorodifluoromethane
 Concen: 229.42 ppbv m
 RT: 3.01 min Scan# 23
 Delta R.T. -0.01 min
 Lab File: VL032820.D
 Acq: 27 Nov 2018 23:27

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-05

Tgt Ion: 51 Resp:23467442
 Ion Ratio Lower Upper
 51 100
 67 53.1 16.1 24.1#

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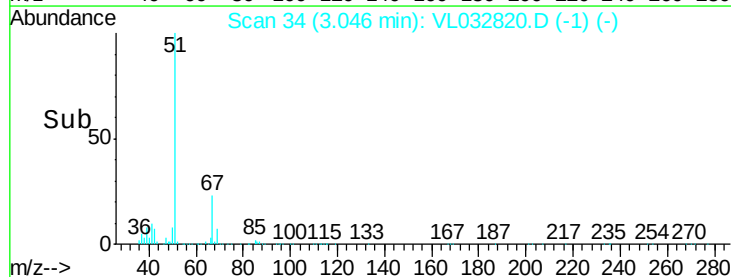
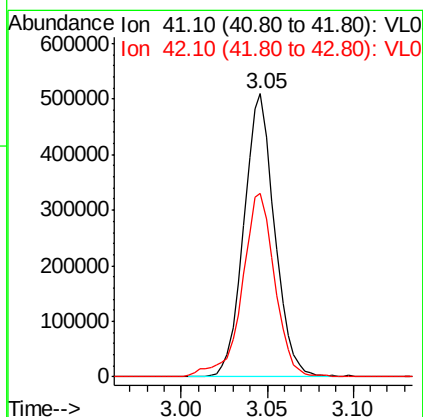
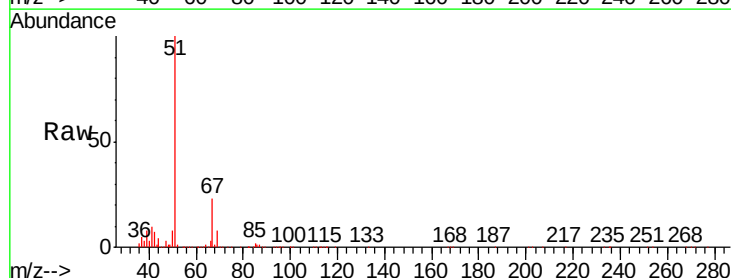
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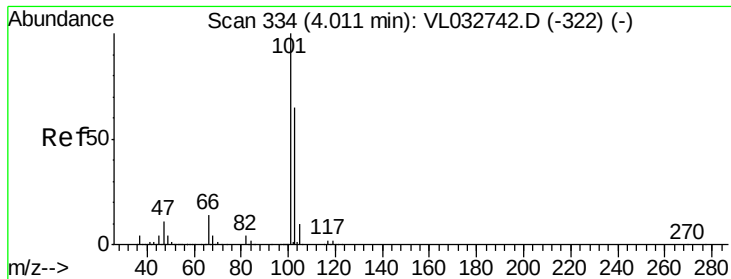


#9

Propene
 Concen: 15.35 ppbv
 RT: 3.05 min Scan# 34
 Delta R.T. 0.00 min
 Lab File: VL032820.D
 Acq: 27 Nov 2018 23:27

Tgt Ion: 41 Resp: 628462
 Ion Ratio Lower Upper
 41 100
 42 69.6 55.0 82.6





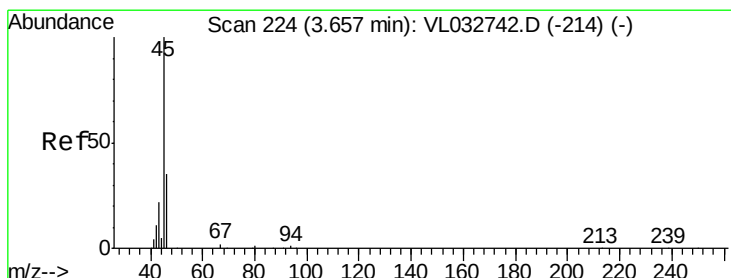
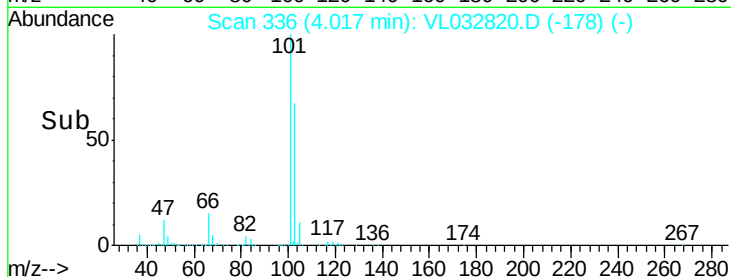
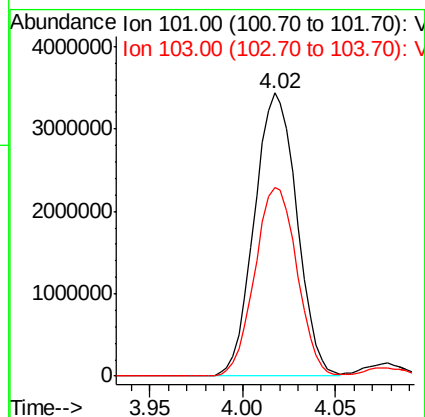
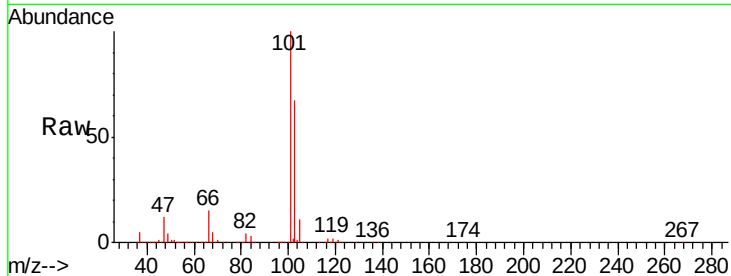
#11
Trichlorofluoromethane
Concen: 31.29 ppbv
RT: 4.02 min Scan# 336
Delta R.T. 0.01 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05

Tgt Ion: 101 Resp: 5469395
Ion Ratio Lower Upper
101 100
103 66.9 51.6 77.4

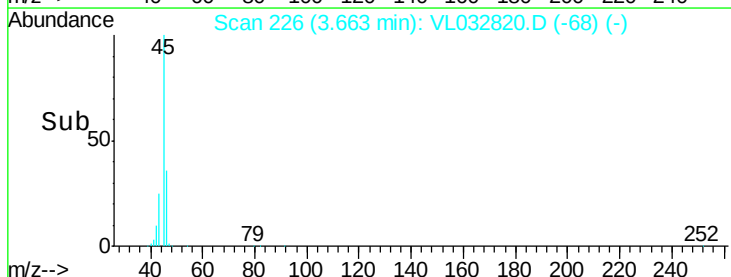
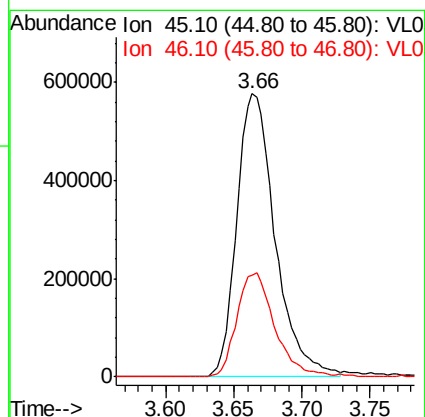
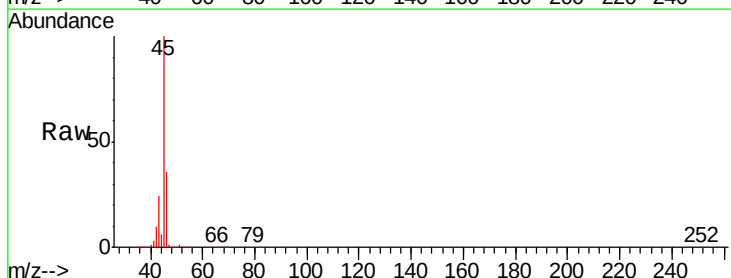
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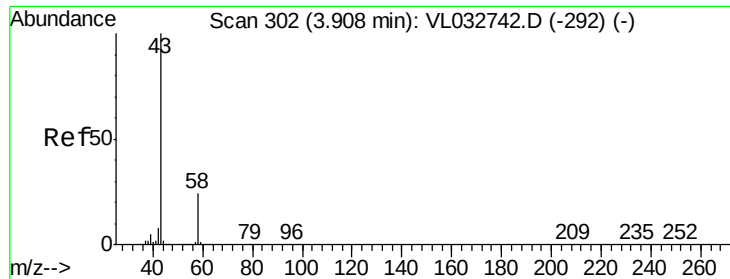
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#13
Ethanol
Concen: 84.15 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Tgt Ion: 45 Resp: 1128283
Ion Ratio Lower Upper
45 100
46 37.2 14.5 57.9





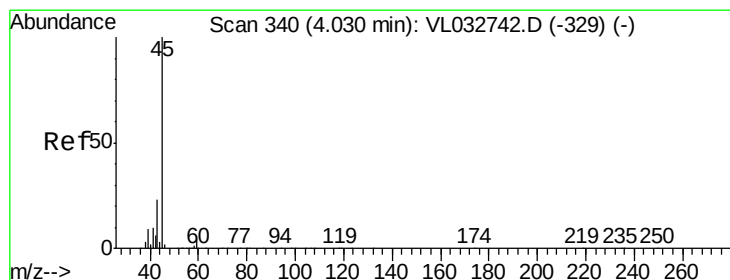
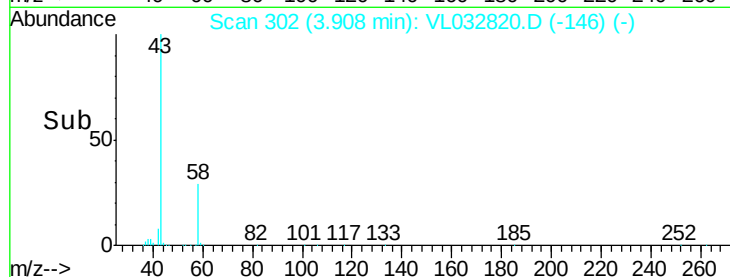
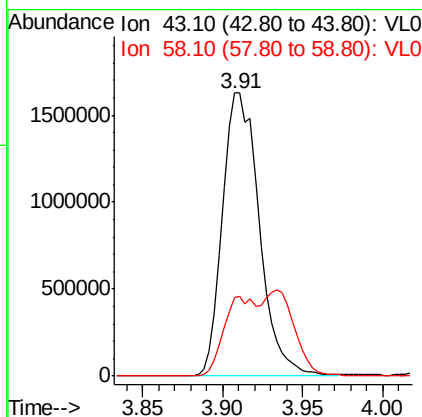
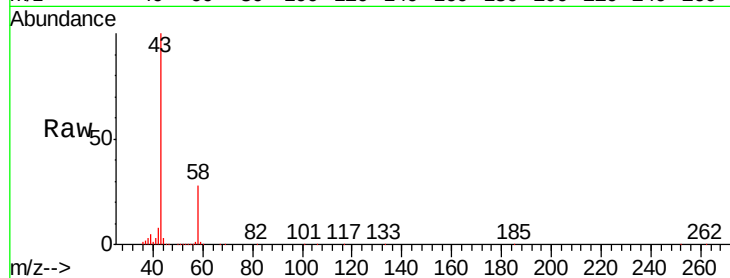
#15
Acetone
Concen: 21.65 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05

Tgt Ion: 43 Resp: 2551299
Ion Ratio Lower Upper
43 100
58 51.6 21.1 31.7#

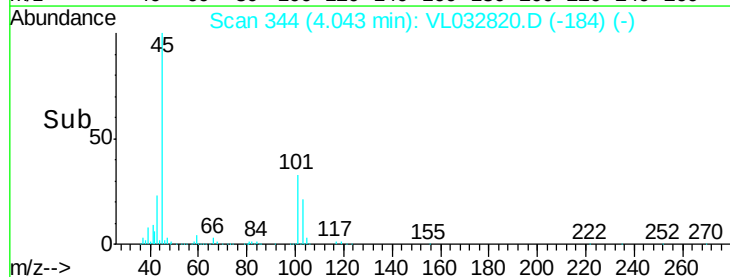
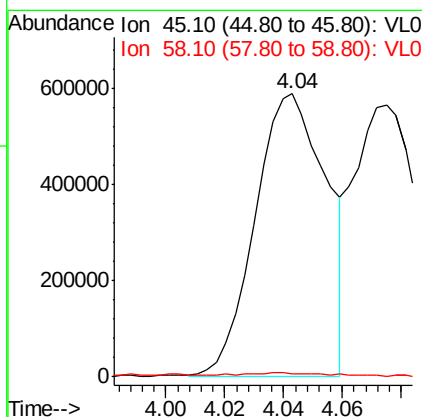
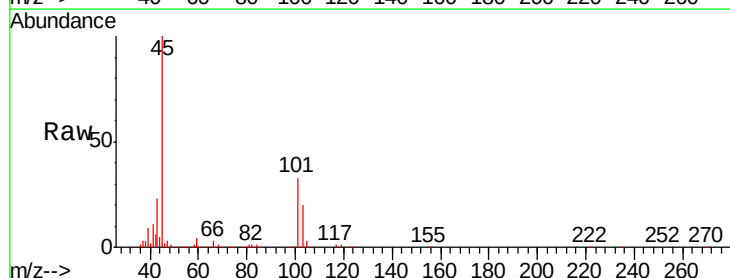
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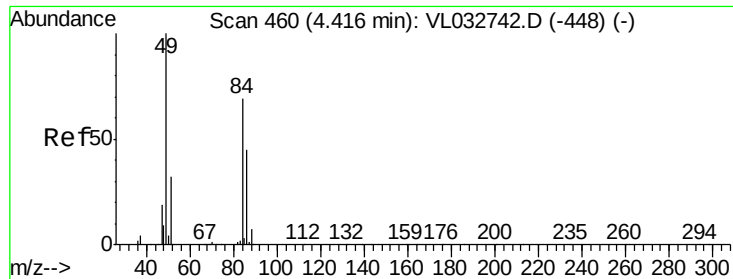
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#19
Isopropyl Alcohol
Concen: 12.68 ppbv m
RT: 4.04 min Scan# 344
Delta R.T. 0.01 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Tgt Ion: 45 Resp: 994892
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.0#





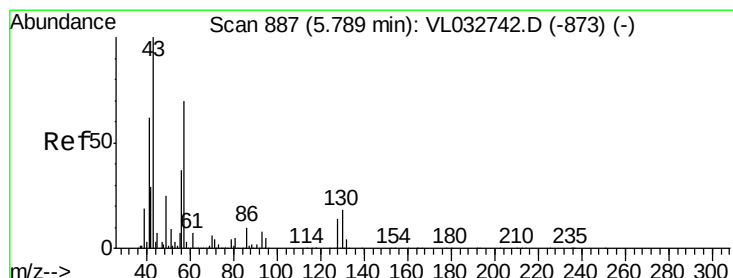
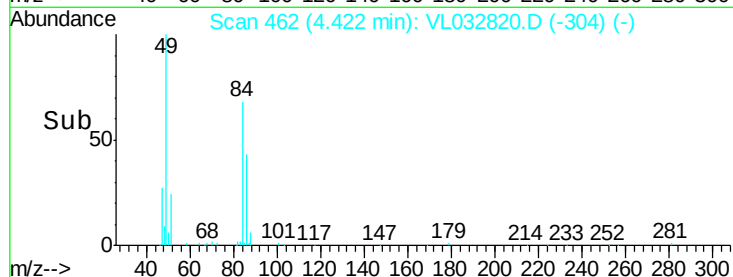
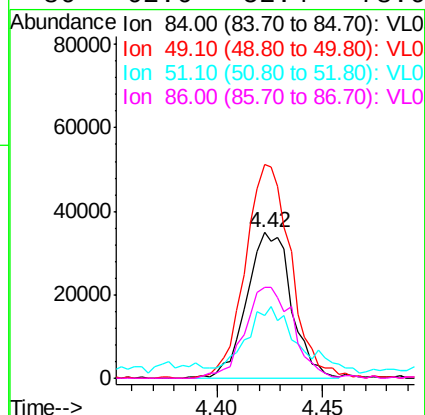
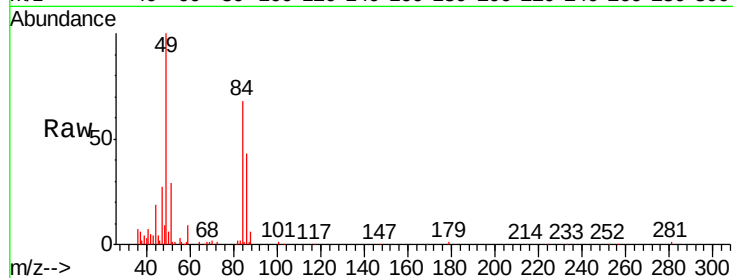
#20
Methylene Chloride
Concen: 0.84 ppbv m
RT: 4.42 min Scan# 462
Delta R.T. 0.01 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	146.9	115.8	173.6
51	43.2	36.9	55.3
86	62.6	52.4	78.6

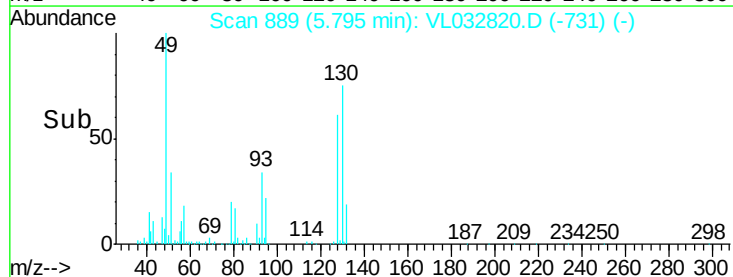
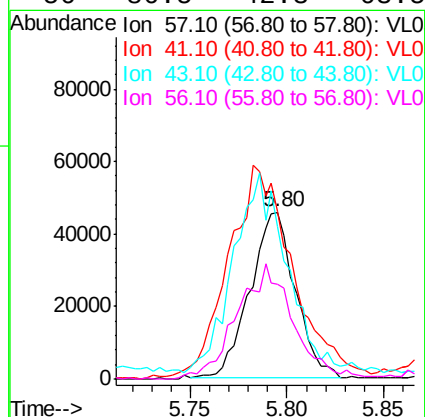
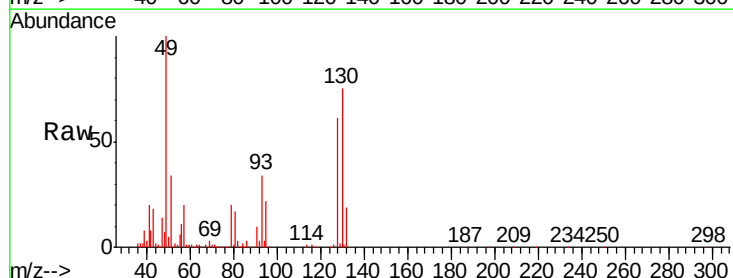
Manual Integrations
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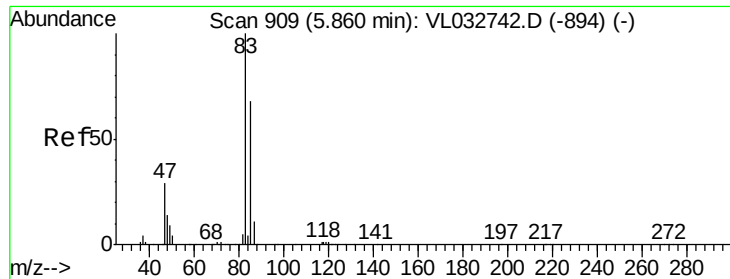
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#26
Hexane
Concen: 0.61 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.01 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	183.2	70.3	105.5#
43	0.0	174.0	261.0#
56	86.5	42.3	63.5#





#29

Chloroform

Concen: 0.18 ppbv

RT: 5.86 min Scan# 910

Delta R.T. 0.00 min

Lab File: VL032820.D

Acq: 27 Nov 2018 23:27

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-05

Tgt Ion: 83 Resp: 38176

Ion Ratio Lower Upper

83 100

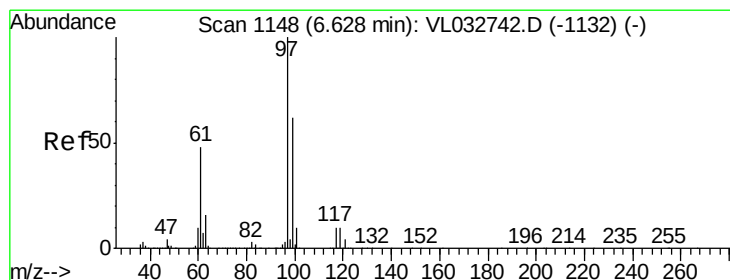
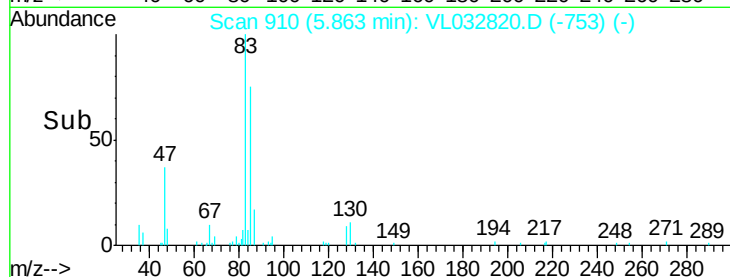
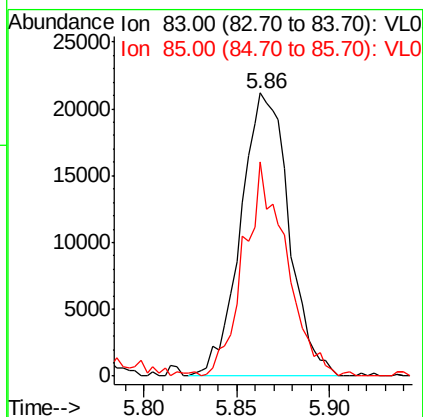
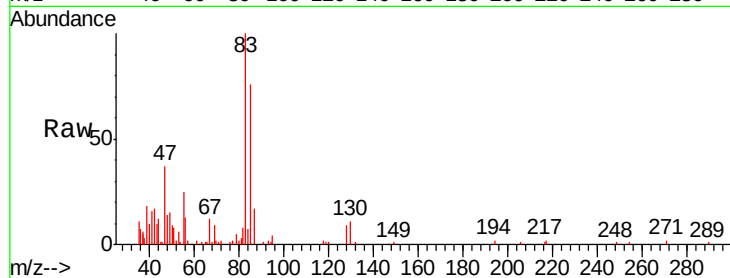
85 75.8 54.2 81.4

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 0.13 ppbv

RT: 6.63 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VL032820.D

Acq: 27 Nov 2018 23:27

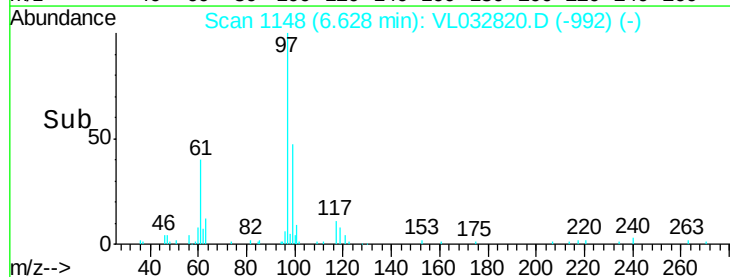
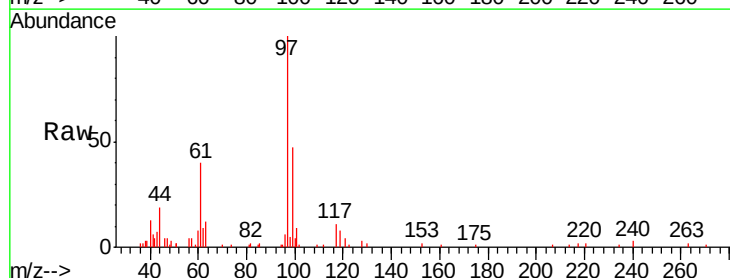
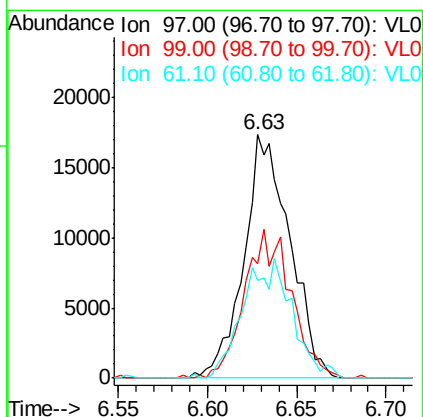
Tgt Ion: 97 Resp: 31301

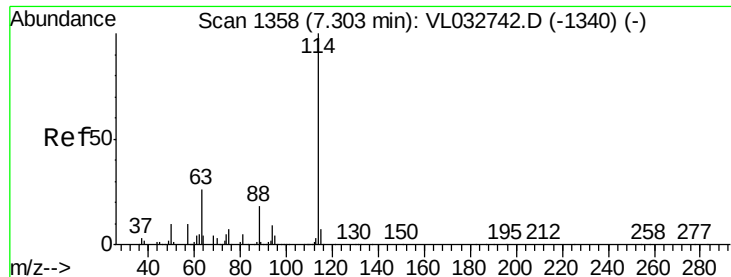
Ion Ratio Lower Upper

97 100

99 61.7 51.8 77.6

61 52.0 39.7 59.5





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.31 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VL032820.D

Acq: 27 Nov 2018 23:27

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-05

Tgt Ion: 114 Resp: 3297283

Ion Ratio Lower Upper

114 100

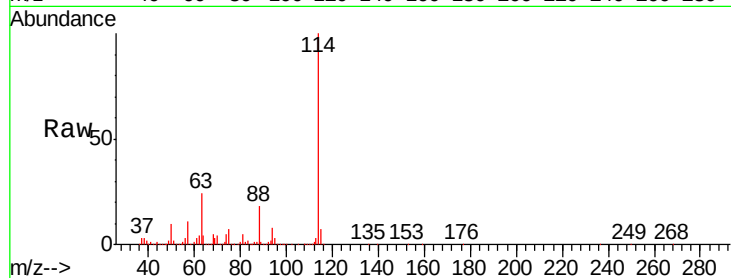
63 24.6 20.9 31.3

88 17.4 14.4 21.6

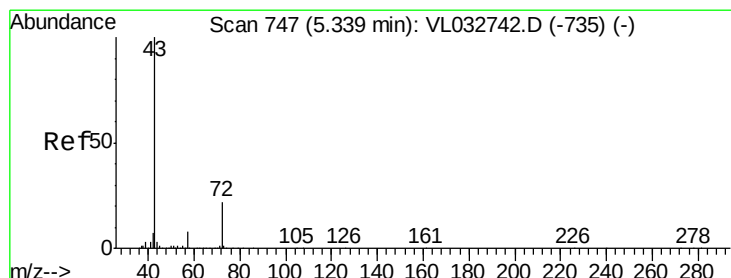
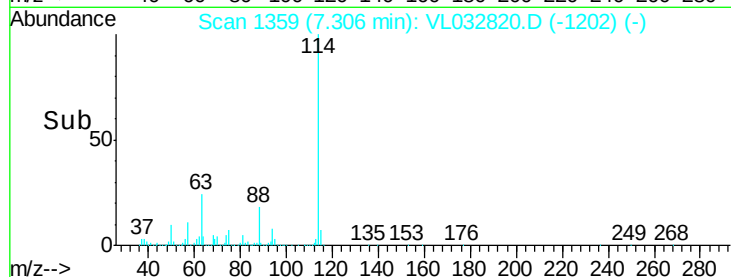
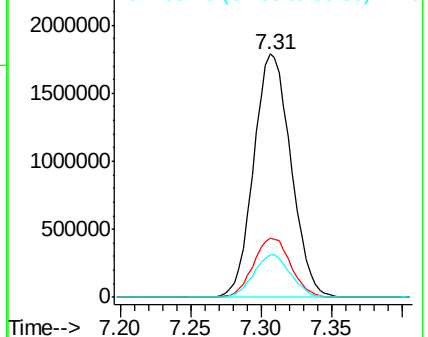
Manual Integrations
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Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 61.73 ppbv

RT: 5.34 min Scan# 746

Delta R.T. -0.00 min

Lab File: VL032820.D

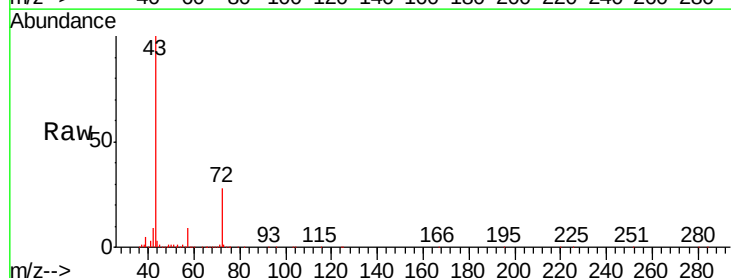
Acq: 27 Nov 2018 23:27

Tgt Ion: 43 Resp: 10556952

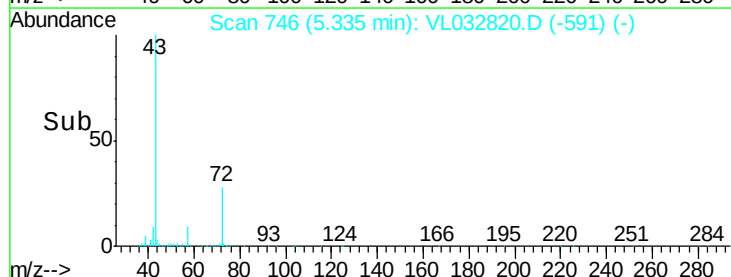
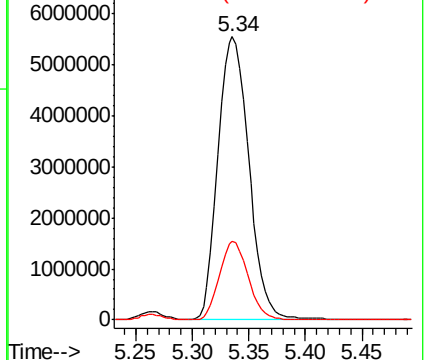
Ion Ratio Lower Upper

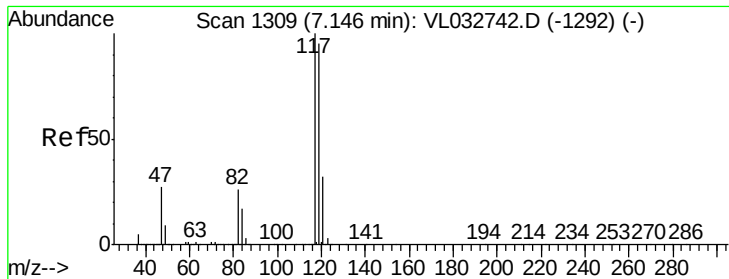
43 100

72 25.9 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.04 ppbv m

RT: 7.15 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL032820.D

Acq: 27 Nov 2018 23:27

Instrument :

MSVOA_L

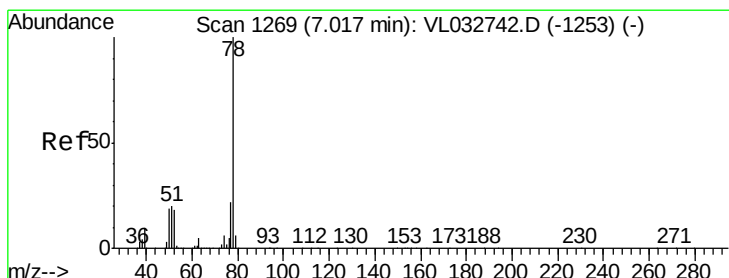
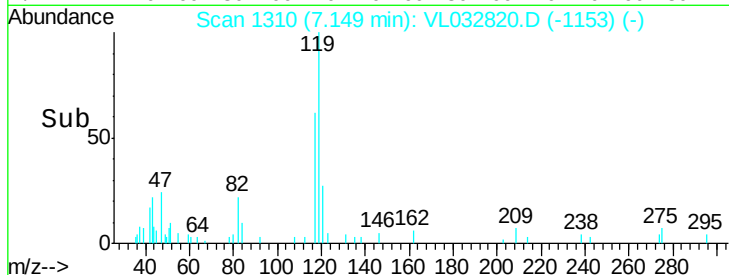
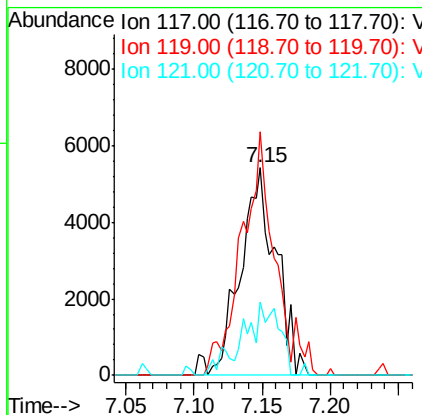
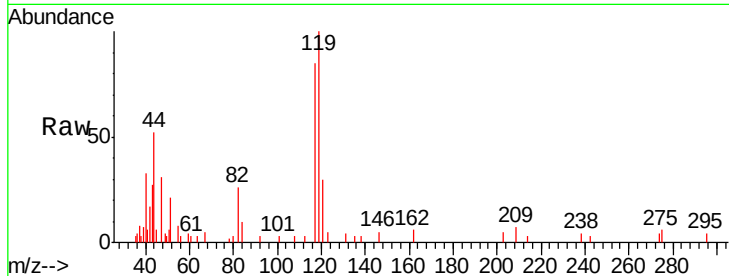
ClientSampled :

EP2-SV-05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	117.4	76.1	114.1#
121	35.3	25.4	38.0

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#36

Benzene

Concen: 0.37 ppbv

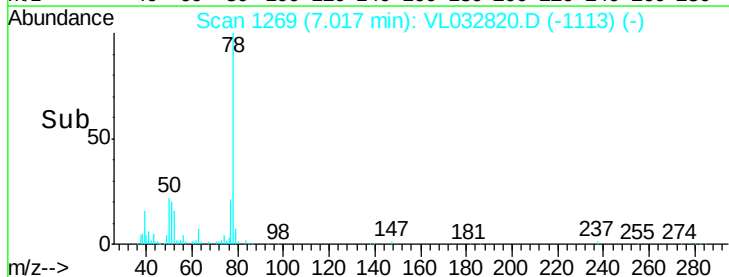
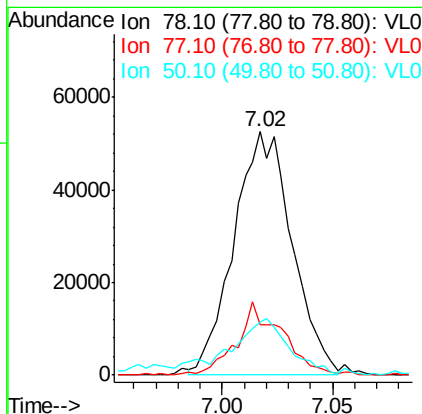
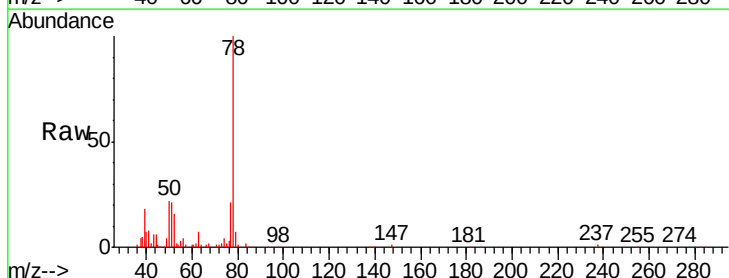
RT: 7.02 min Scan# 1269

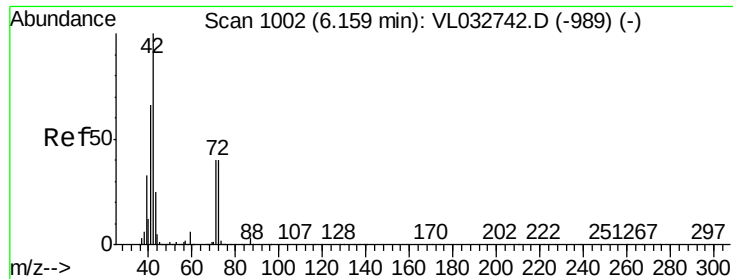
Delta R.T. 0.00 min

Lab File: VL032820.D

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Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.4	17.8	26.8
50	21.5	15.4	23.0





#41

Tetrahydrofuran

Concen: 4.68 ppbv

RT: 6.16 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VL032820.D

Acq: 27 Nov 2018 23:27

Instrument :

MSVOA_L

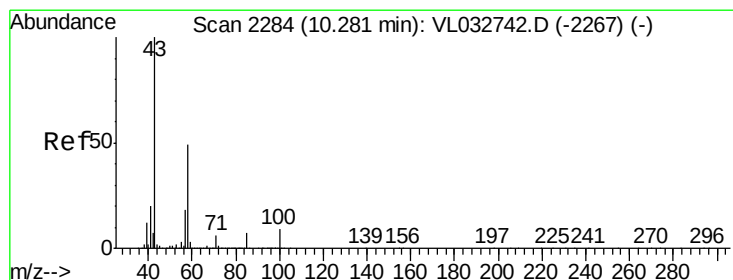
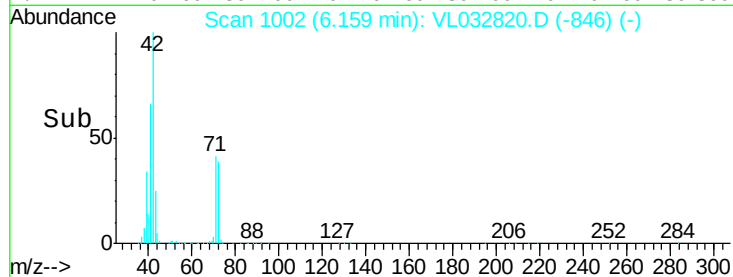
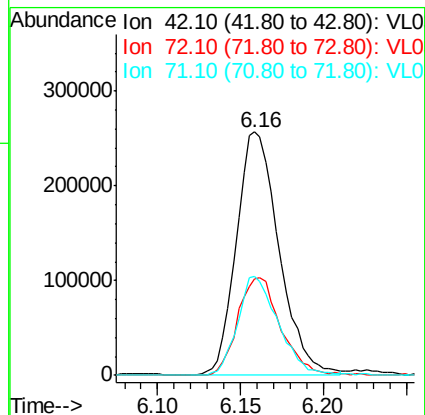
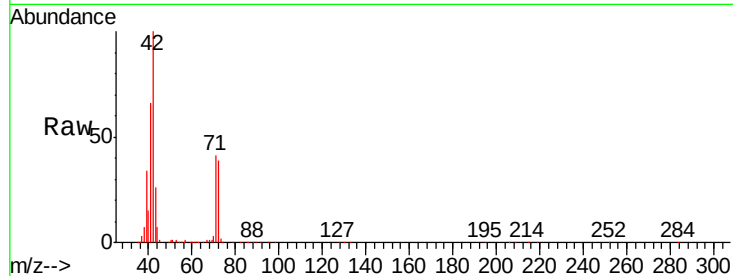
ClientSampleId :

EP2-SV-05

Tgt Ion:	42	Resp:	458961
Ion Ratio	Lower	Upper	
42	100		
72	40.8	32.4	48.6
71	39.4	31.6	47.4

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#51

2-Hexanone

Concen: 0.69 ppbv m

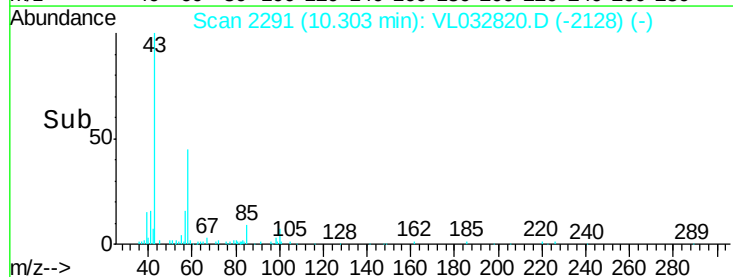
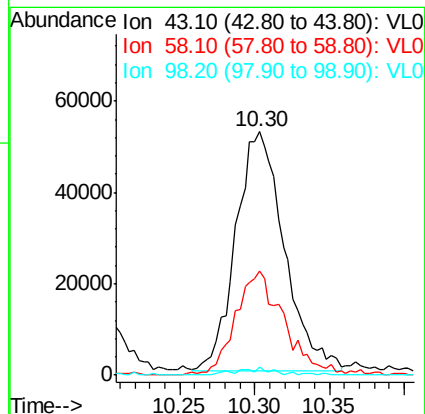
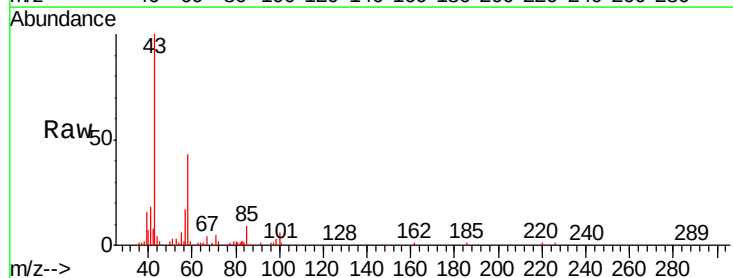
RT: 10.30 min Scan# 2291

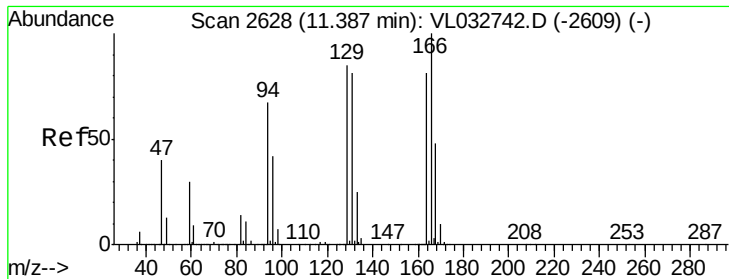
Delta R.T. 0.02 min

Lab File: VL032820.D

Acq: 27 Nov 2018 23:27

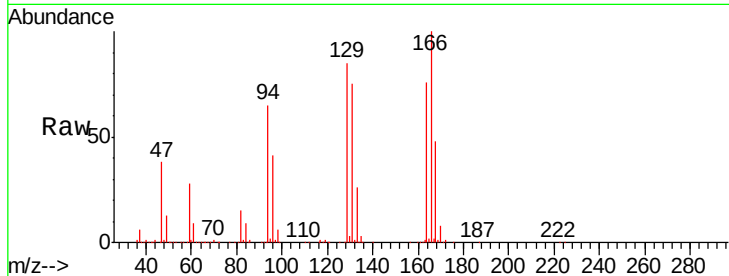
Tgt Ion:	43	Resp:	118284
Ion Ratio	Lower	Upper	
43	100		
58	44.3	38.9	58.3
98	2.4	0.2	0.4#





#52
Tetrachloroethene
Concen: 4.73 ppbv
RT: 11.39 min Scan# 2629
Delta R.T. 0.00 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

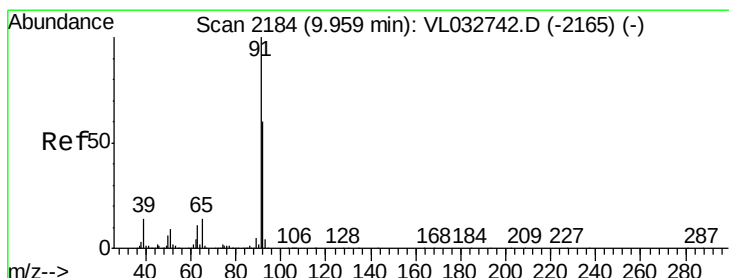
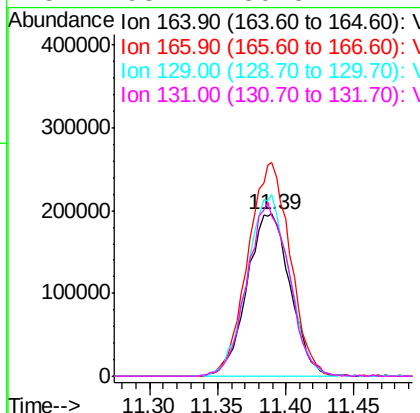
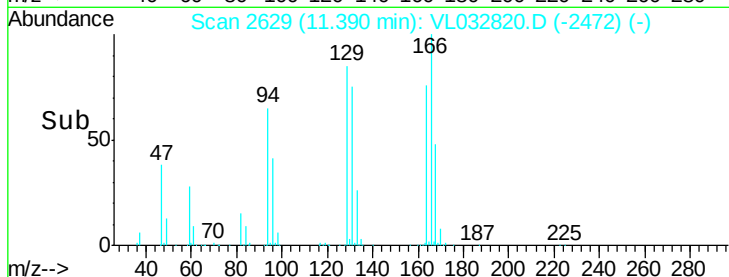
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05



Tgt Ion	Ratio	Resp	Lower	Upper
164	100	431741		
166	131.9	99.3	148.9	
129	112.0	83.9	125.9	
131	98.4	80.8	121.2	

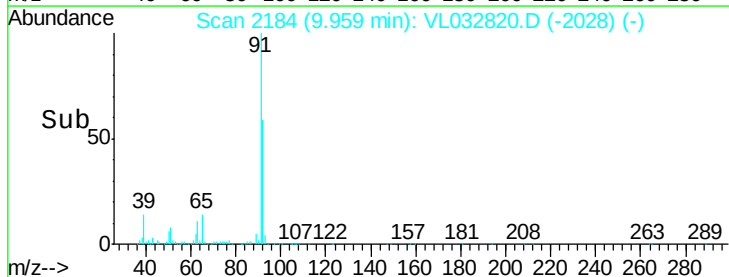
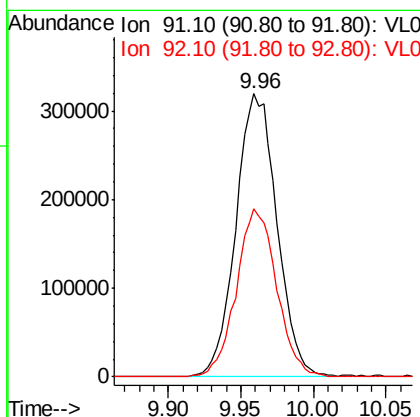
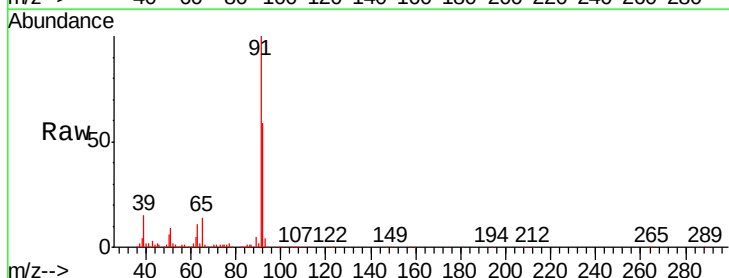
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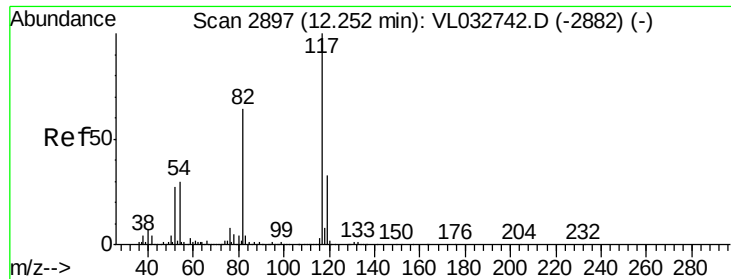
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#53
Toluene
Concen: 2.28 ppbv
RT: 9.96 min Scan# 2184
Delta R.T. 0.00 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	624876		
92	58.7	47.9	71.9	





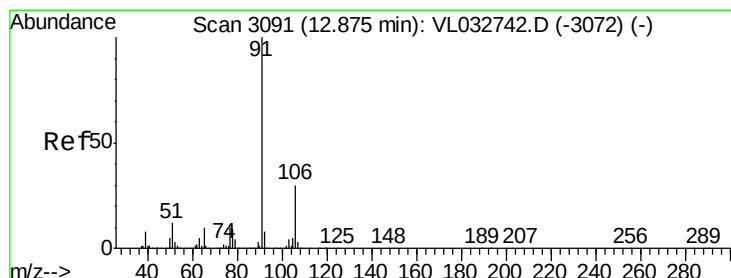
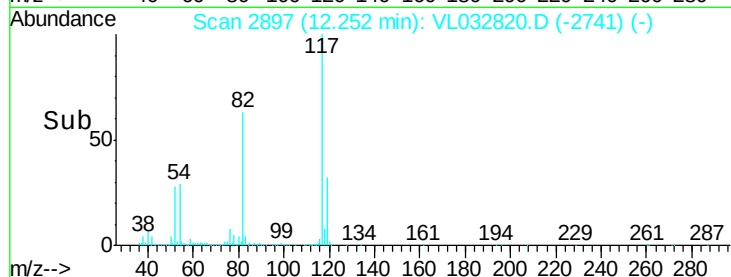
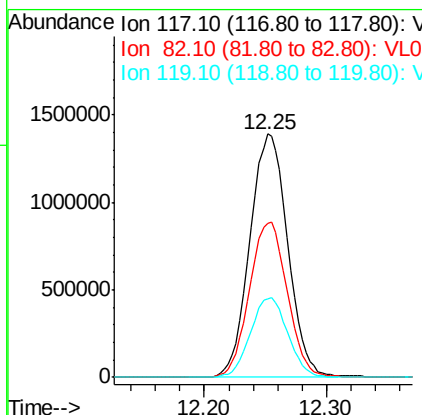
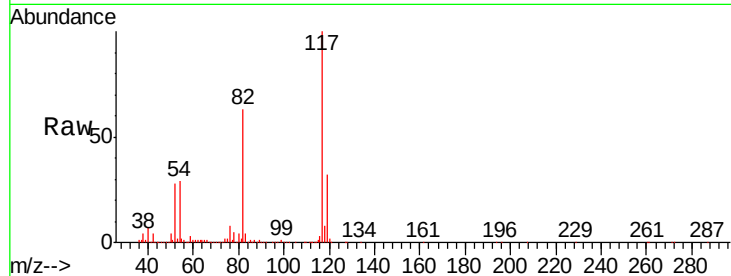
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05

Tgt Ion:117 Resp: 2981054
Ion Ratio Lower Upper
117 100
82 64.4 51.0 76.6
119 32.5 28.0 42.0

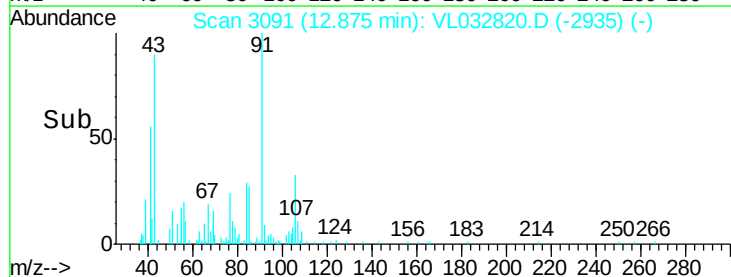
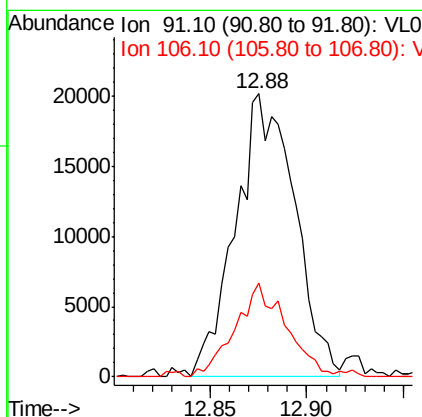
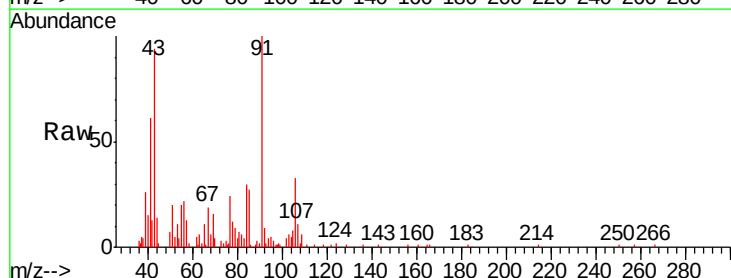
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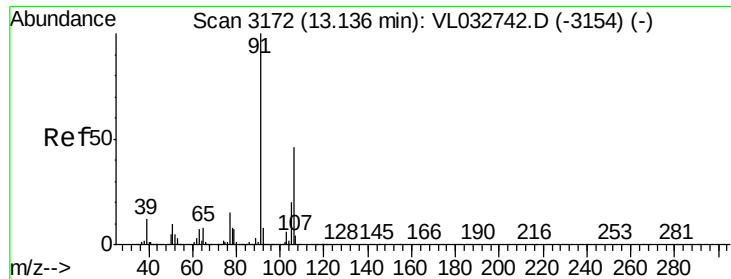
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#58
Ethyl Benzene
Concen: 0.12 ppbv m
RT: 12.88 min Scan# 3091
Delta R.T. 0.00 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Tgt Ion: 91 Resp: 42995
Ion Ratio Lower Upper
91 100
106 33.1 23.6 35.4





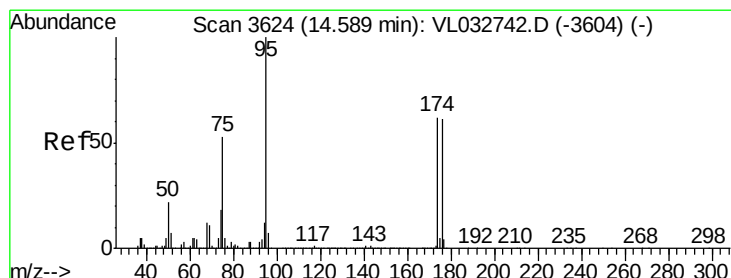
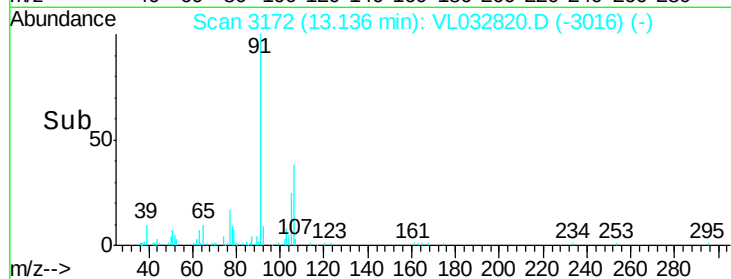
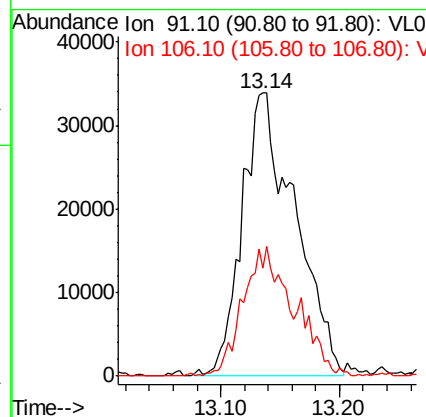
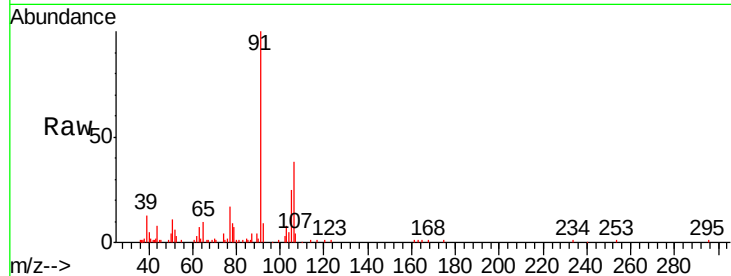
#59
m/p-Xylene
Concen: 0.33 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. 0.00 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Instrument :
MSVOA_L
ClientSampled :
EP2-SV-05

Tgt Ion: 91 Resp: 104844
Ion Ratio Lower Upper
91 100
106 43.8 36.1 54.1

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.97 ppbv
RT: 14.59 min Scan# 3624
Delta R.T. 0.00 min
Lab File: VL032820.D
Acq: 27 Nov 2018 23:27

Tgt Ion: 95 Resp: 2222269
Ion Ratio Lower Upper
95 100
174 66.2 50.7 76.1
175 4.8 3.8 5.6

