

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112718\
 Data File : VL032824.D
 Acq On : 28 Nov 2018 10:08
 Operator : SY/AP
 Sample : J6046-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-06

Manual Integrations
 APPROVED

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 11/28/2018 4:21:39 PM

Quant Time: Nov 29 15:22:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	5.77	49	1271231	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3198698	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2969521	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2213319	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	40421	0.221	ppbv	92
3) Chlorodifluoromethane	3.02	51	787945	7.818	ppbv	100
4) Chloromethane	3.17	50	20468m	0.366	ppbv	
9) Propene	3.04	41	759406	18.829	ppbv	96
11) Trichlorofluoromethane	4.01	101	103628	0.602	ppbv	94
13) Ethanol	3.67	45	1315515	99.582	ppbv	98
15) Acetone	3.91	43	3357050	28.917	ppbv #	68
19) Isopropyl Alcohol	4.04	45	1787978	23.119	ppbv #	1
20) Methylene Chloride	4.42	84	334656	5.568	ppbv	97
26) Hexane	5.79	57	318067	2.641	ppbv #	43
34) 2-Butanone	5.34	43	9437444	56.885	ppbv	95
35) Carbon Tetrachloride	7.15	117	13757m	0.053	ppbv	
36) Benzene	7.02	78	76286	0.299	ppbv	98
41) Tetrahydrofuran	6.16	42	738565	7.761	ppbv	98
52) Tetrachloroethene	11.39	164	18488m	0.209	ppbv	
53) Toluene	9.96	91	993278	3.738	ppbv	99
59) m/p-Xylene	13.13	91	76504m	0.240	ppbv	

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

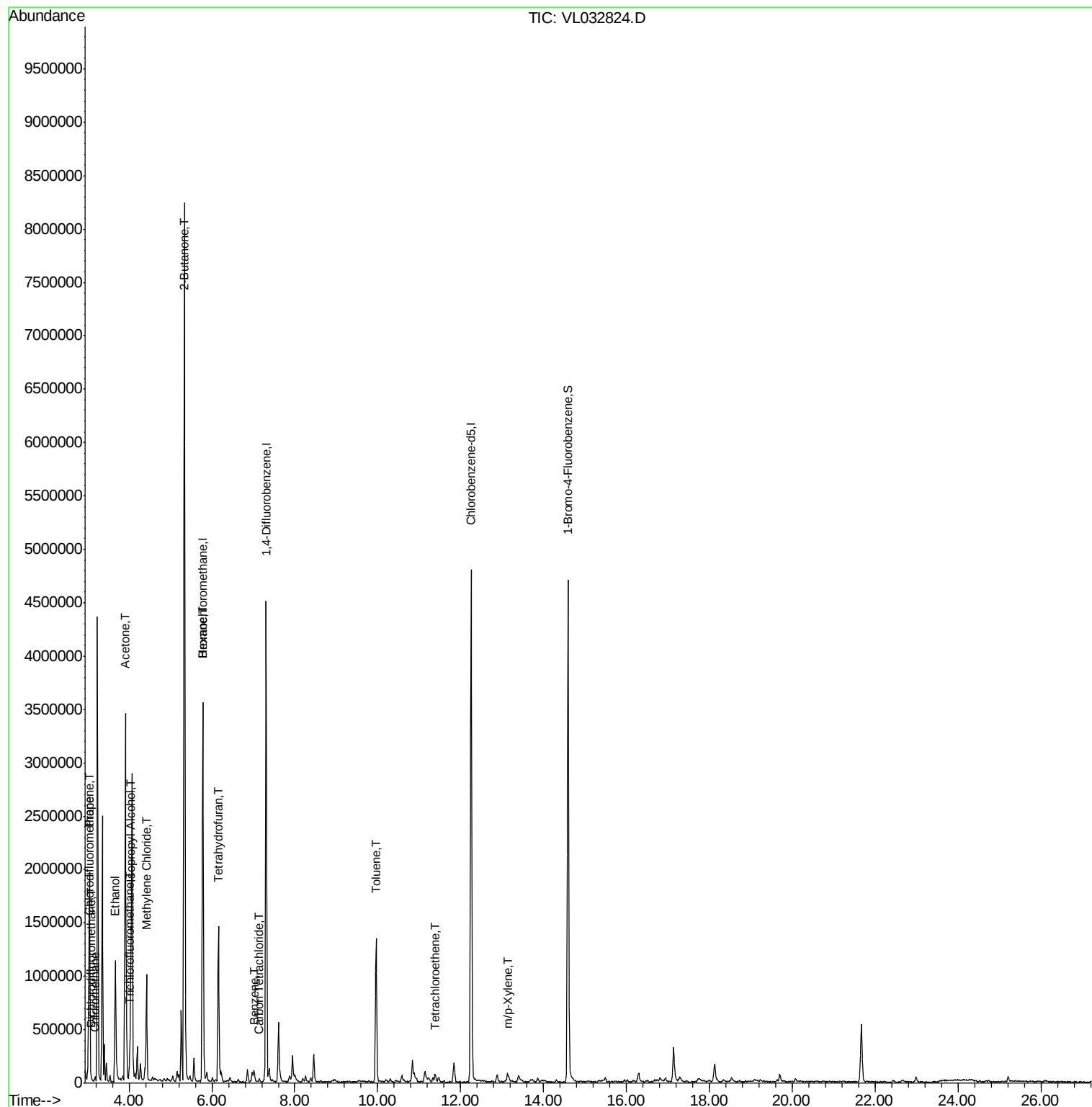
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112718\
Data File : VL032824.D
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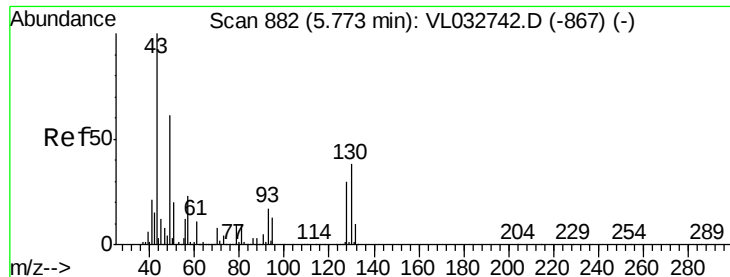
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06

Manual Integrations
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Quant Time: Nov 29 15:22:59 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: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032824.D

Acq: 28 Nov 2018 10:08

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-06

Tot Ion: 49 Resp: 1271231

Ion Ratio Lower Upper

49 100

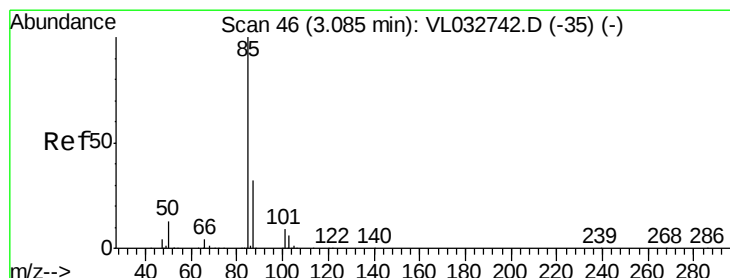
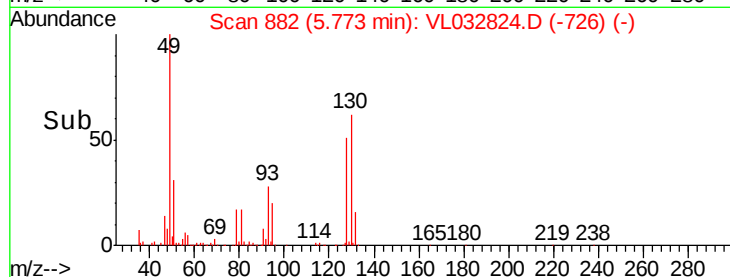
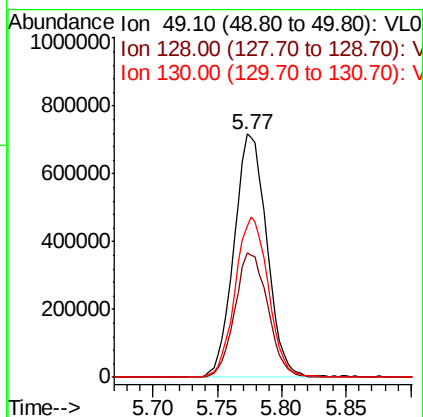
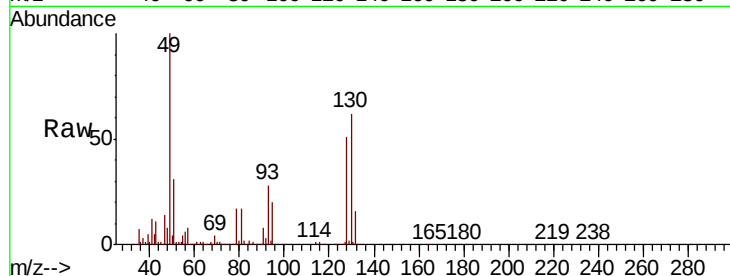
128 51.9 24.9 74.6

130 66.8 31.4 94.2

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.221 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032824.D

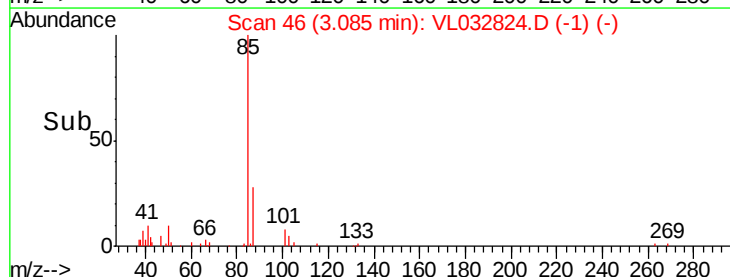
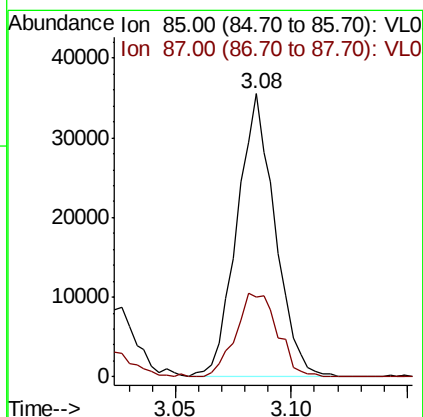
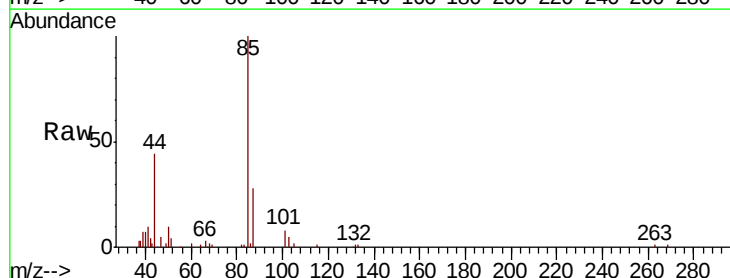
Acq: 28 Nov 2018 10:08

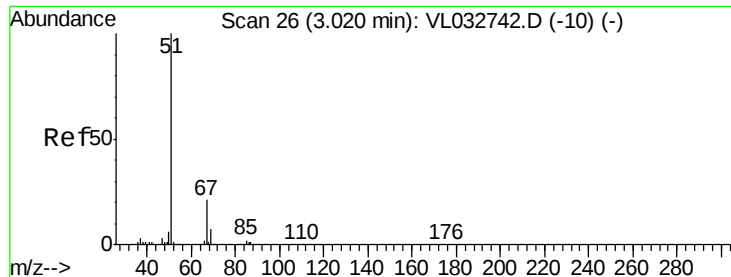
Tgt Ion: 85 Resp: 40421

Ion Ratio Lower Upper

85 100

87 28.1 26.0 39.0





#3

Chlorodifluoromethane

Concen: 7.818 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032824.D

Acq: 28 Nov 2018 10:08

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-06

Tot Ion: 51 Resp: 787945

Ion Ratio Lower Upper

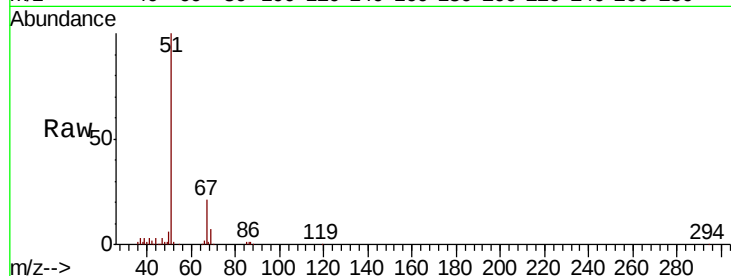
51 100

67 20.0 16.1 24.1

Manual Integrations
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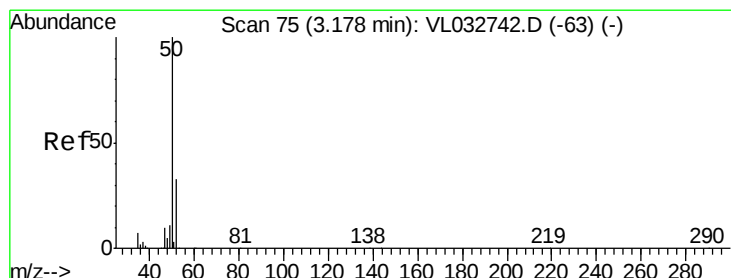
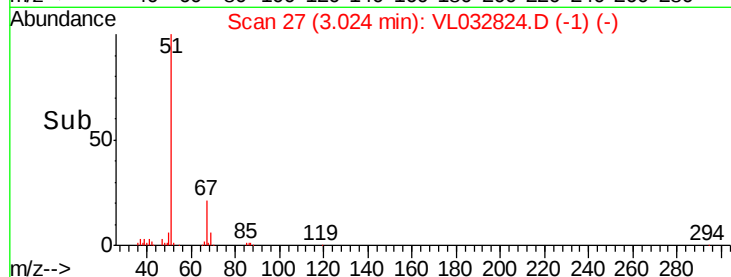
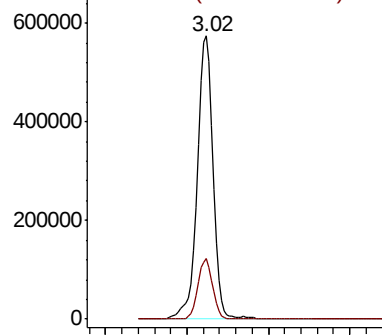
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.366 ppbv m

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032824.D

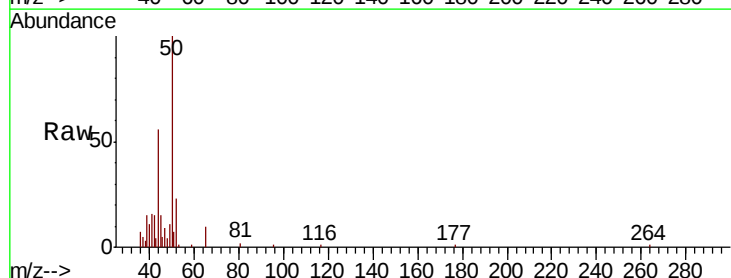
Acq: 28 Nov 2018 10:08

Tgt Ion: 50 Resp: 20468

Ion Ratio Lower Upper

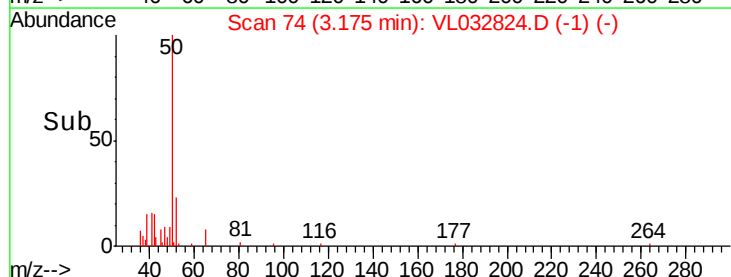
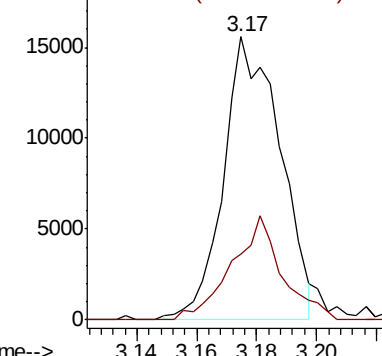
50 100

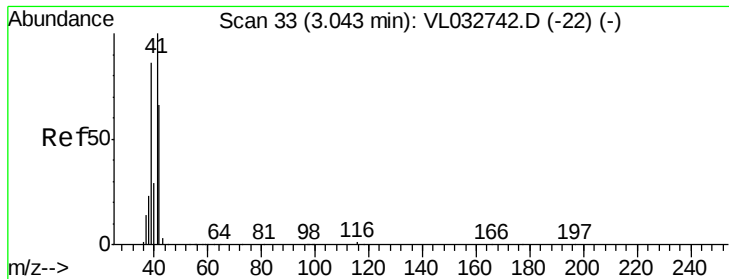
52 23.5 26.6 40.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 18.829 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032824.D

Acq: 28 Nov 2018 10:08

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-06

Tot Ion: 41 Resp: 759406

Ion Ratio Lower Upper

41 100

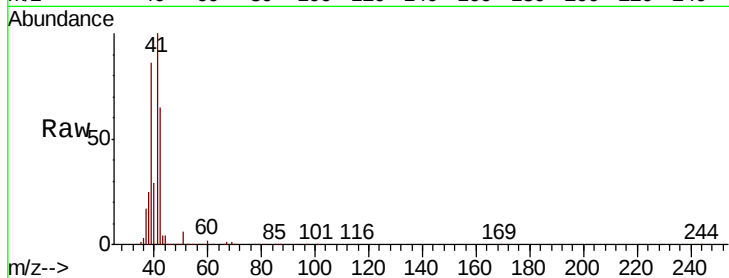
42 65.8 55.0 82.6

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

600000

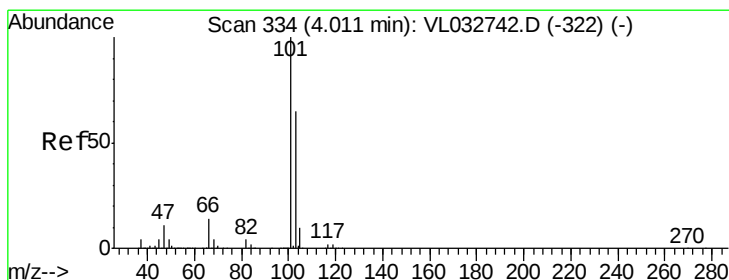
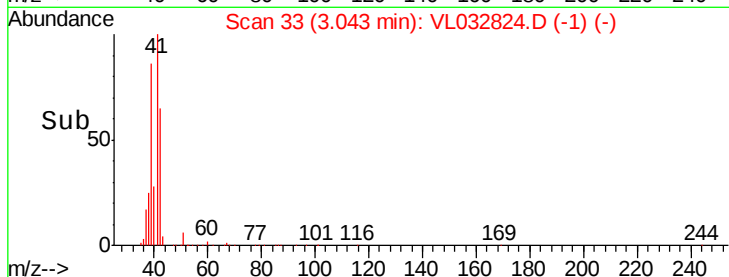
400000

200000

0

3.00 3.05 3.10

Time-->



#11

Trichlorofluoromethane

Concen: 0.602 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032824.D

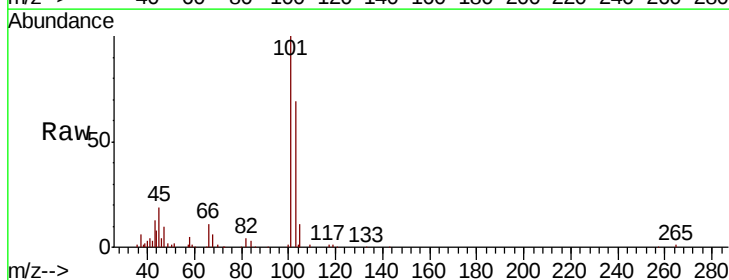
Acq: 28 Nov 2018 10:08

Tgt Ion: 101 Resp: 103628

Ion Ratio Lower Upper

101 100

103 69.1 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

80000

60000

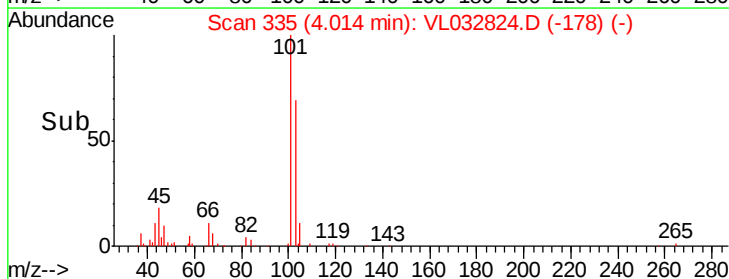
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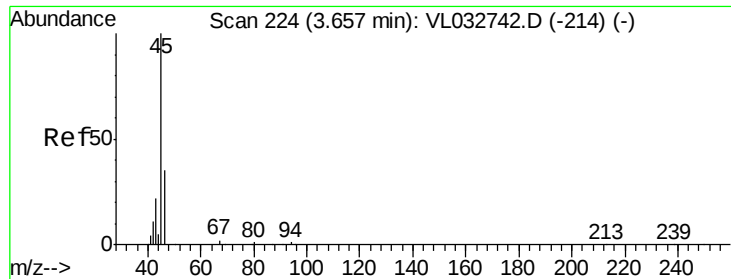
20000

0

3.95 4.00 4.05

Time-->





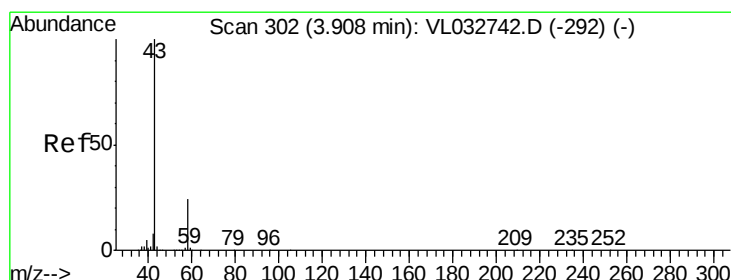
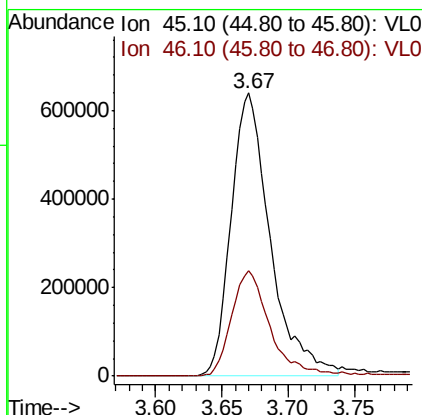
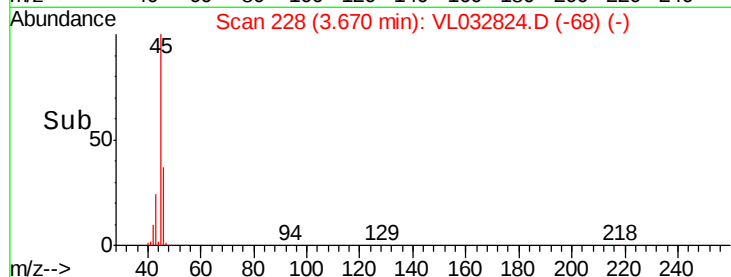
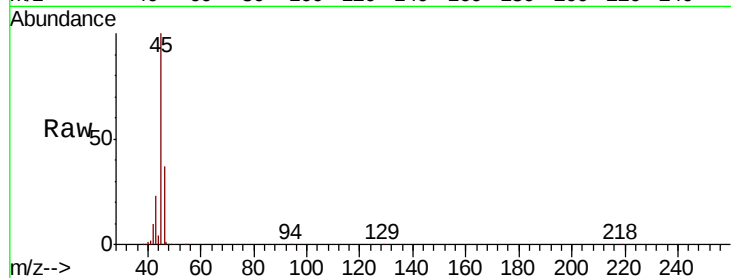
#13
Ethanol
Concen: 99.582 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.01 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06

Tot Ion: 45 Resp: 1315515
Ion Ratio Lower Upper
45 100
46 37.4 14.5 57.9

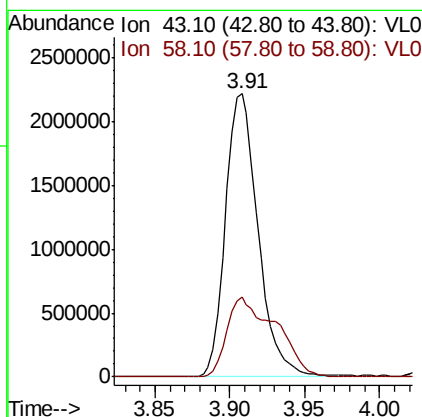
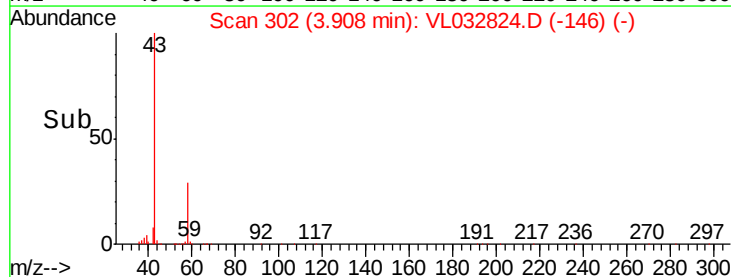
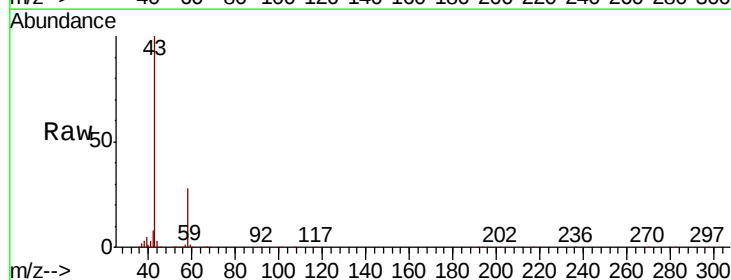
Manual Integrations
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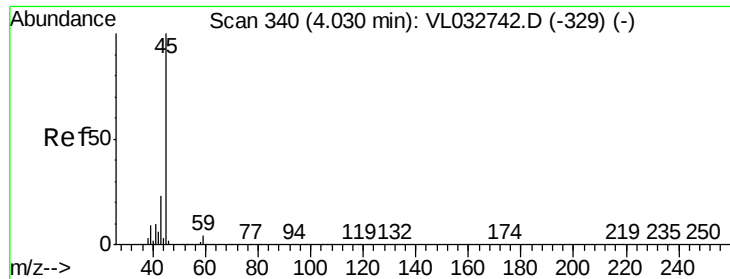
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#15
Acetone
Concen: 28.917 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Tgt Ion: 43 Resp: 3357050
Ion Ratio Lower Upper
43 100
58 42.7 21.1 31.7#





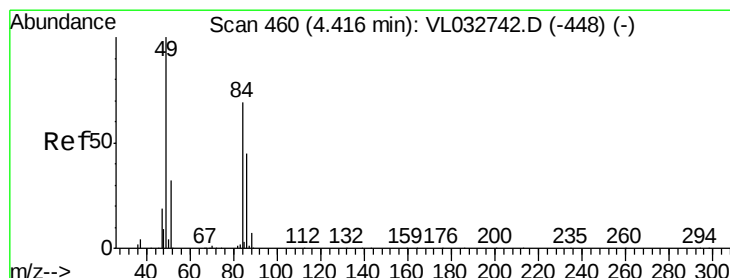
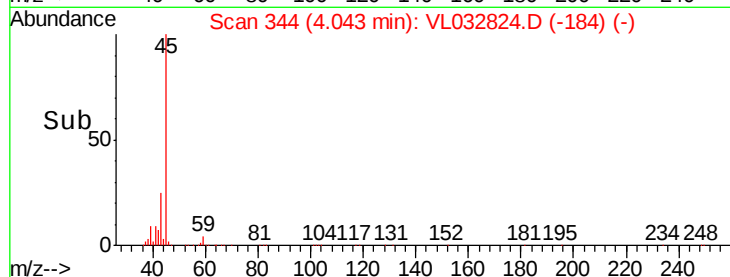
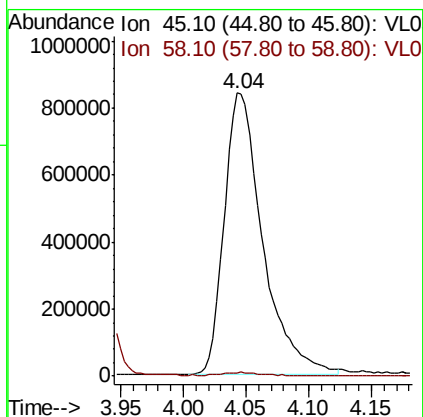
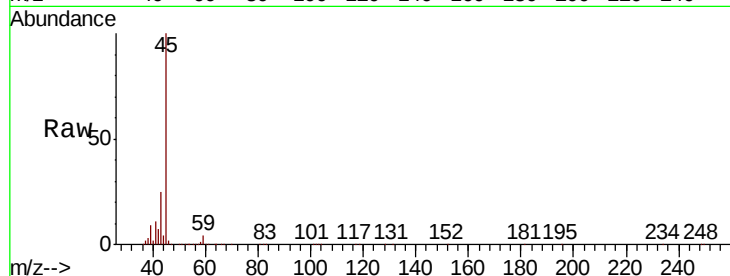
#19
Isopropyl Alcohol
Concen: 23.119 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.01 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Instrument :
MSVOA_L
ClientSampleID :
EP2-SV-06

Tot Ion: 45 Resp: 1787978
Ion Ratio Lower Upper
45 100
58 80.3 1.4 2.0#

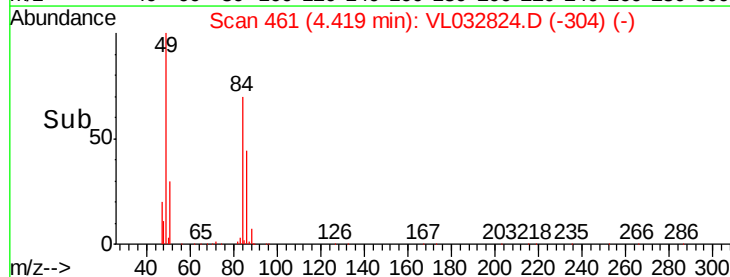
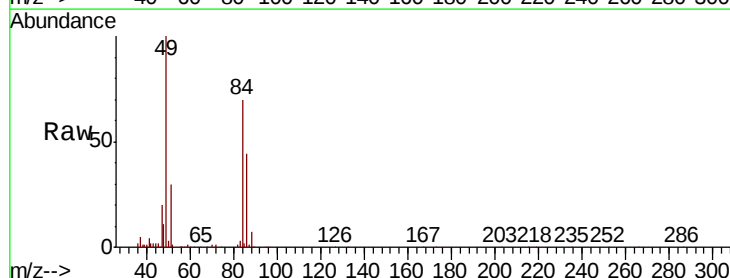
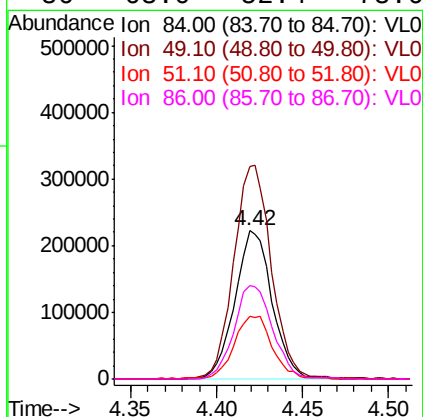
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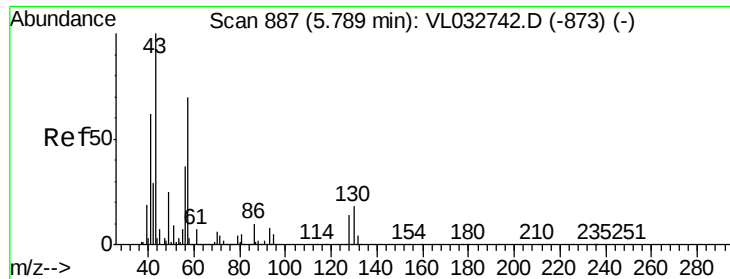
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#20
Methylene Chloride
Concen: 5.568 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Tgt Ion: 84 Resp: 334656
Ion Ratio Lower Upper
84 100
49 142.9 115.8 173.6
51 42.5 36.9 55.3
86 63.0 52.4 78.6





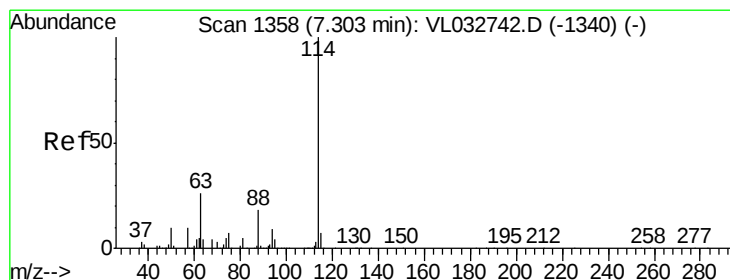
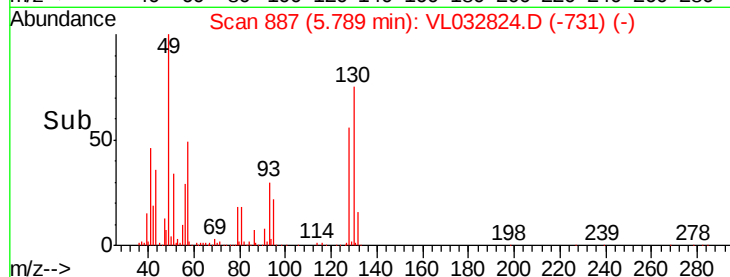
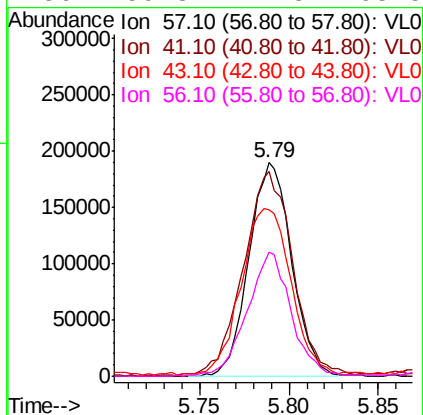
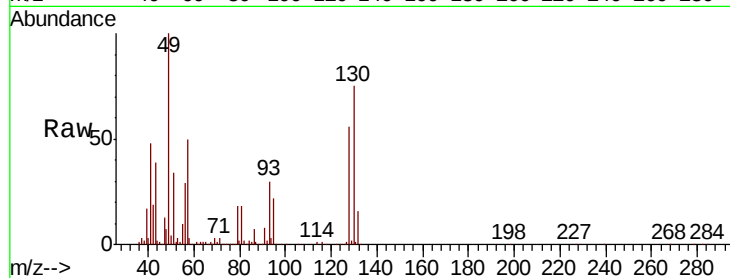
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Hexane
Concen: 2.641 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06

Tot Ion	Ratio	Lower	Upper
57	100		
41	112.5	70.3	105.5#
43	89.4	174.0	261.0#
56	59.8	42.3	63.5

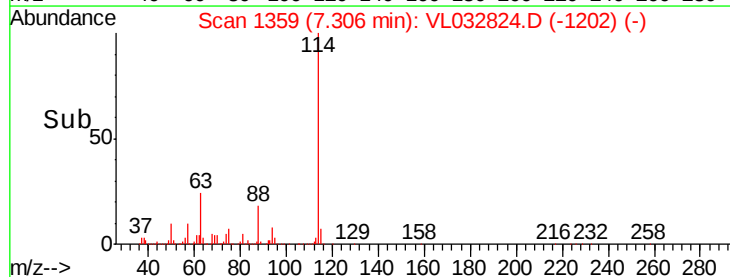
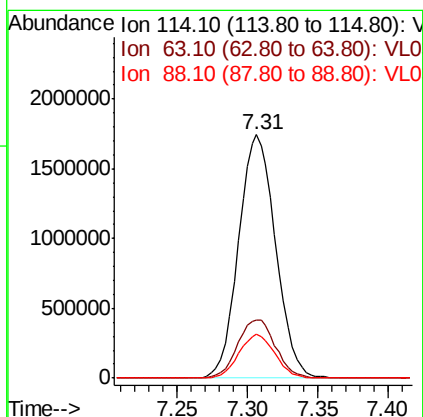
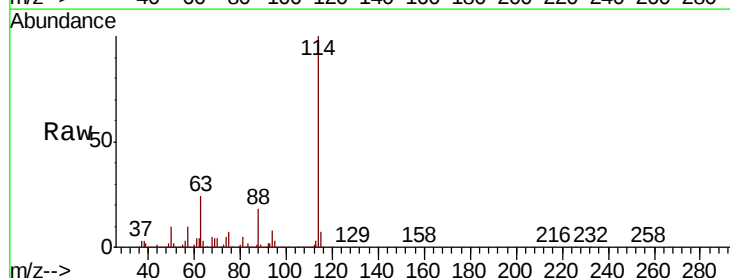
Manual Integrations
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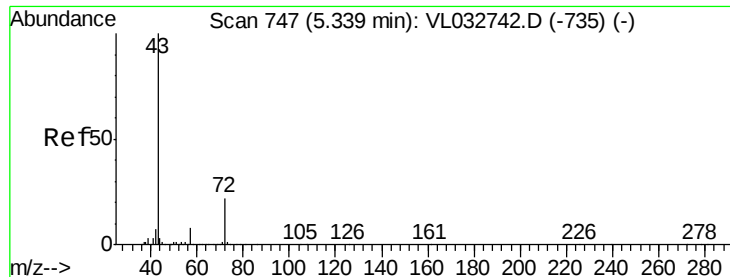
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.31 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.7	20.9	31.3
88	17.6	14.4	21.6





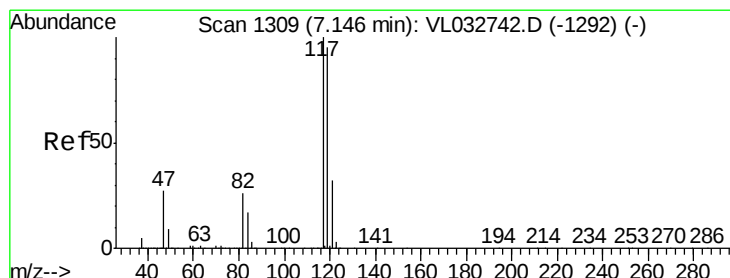
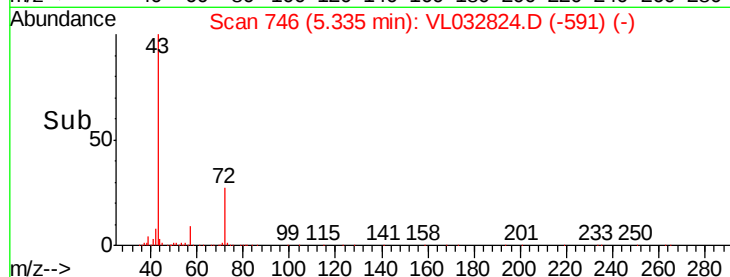
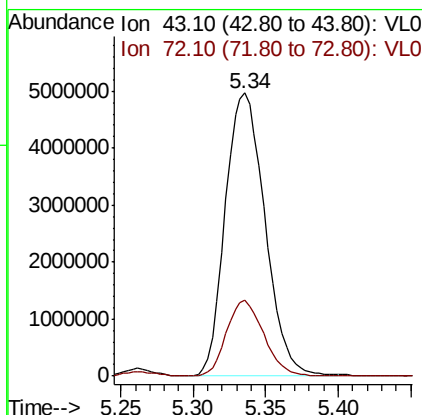
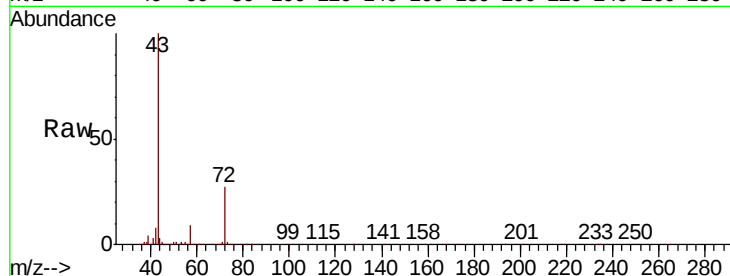
#34
2-Butanone
Concen: 56.885 ppbv
RT: 5.34 min Scan# 746
Delta R.T. -0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06

Tot Ion: 43 Resp: 9437444
Ion Ratio Lower Upper
43 100
72 25.3 18.4 27.6

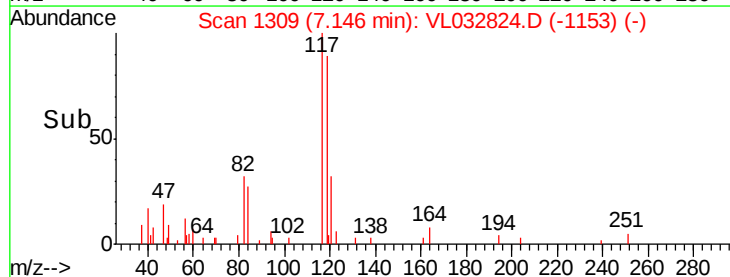
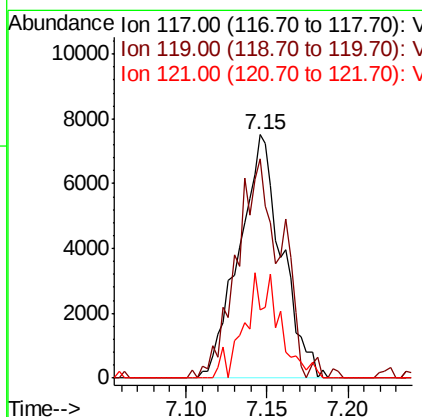
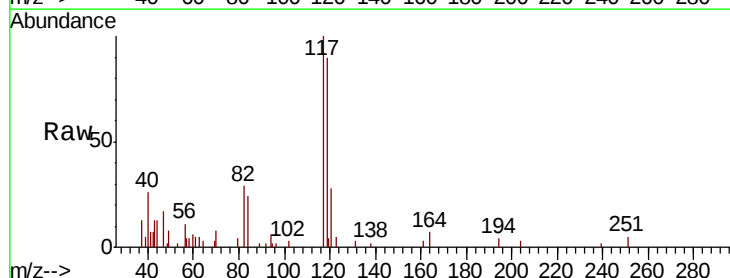
Manual Integrations
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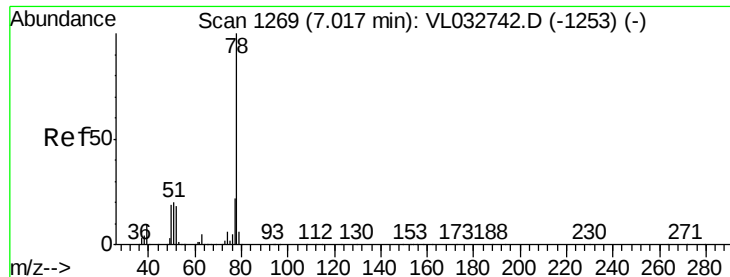
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#35
Carbon Tetrachloride
Concen: 0.053 ppbv m
RT: 7.15 min Scan# 1309
Delta R.T. 0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Tgt Ion: 117 Resp: 13757
Ion Ratio Lower Upper
117 100
119 90.0 76.1 114.1
121 28.1 25.4 38.0





#36

Benzene

Concen: 0.299 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032824.D

Acq: 28 Nov 2018 10:08

Instrument :

MSVOA_L

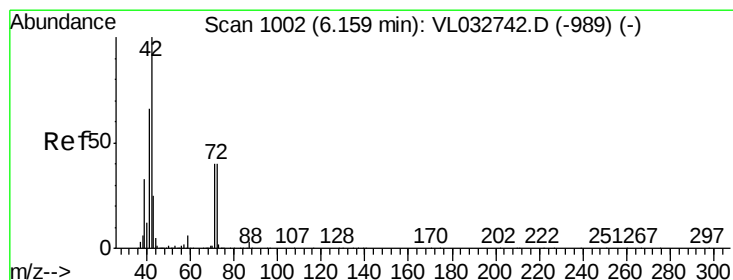
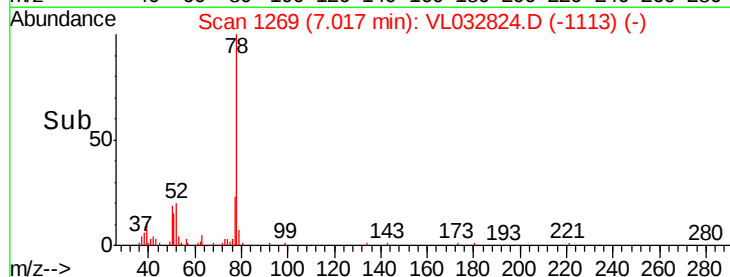
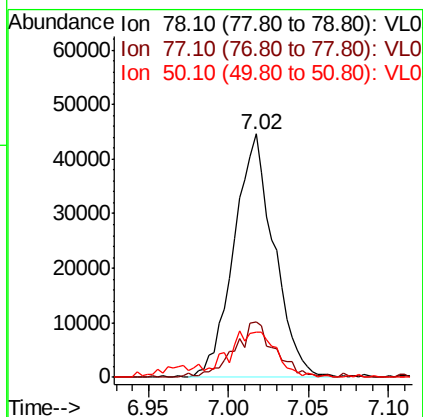
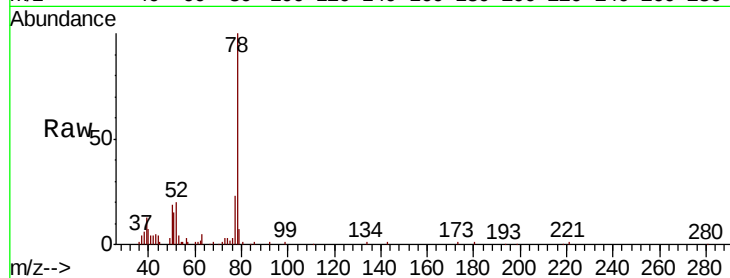
ClientSampleId :

EP2-SV-06

Tot Ion:	78	Resp:	76286
Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.8	26.8
50	18.4	15.4	23.0

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#41

Tetrahydrofuran

Concen: 7.761 ppbv

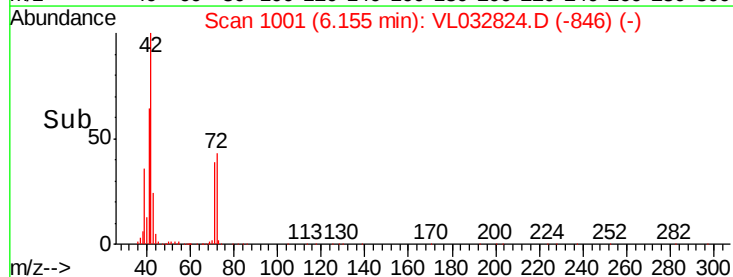
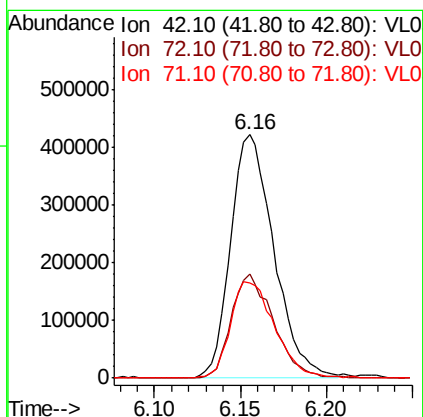
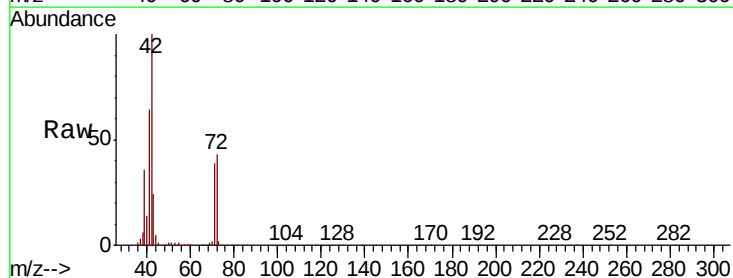
RT: 6.16 min Scan# 1001

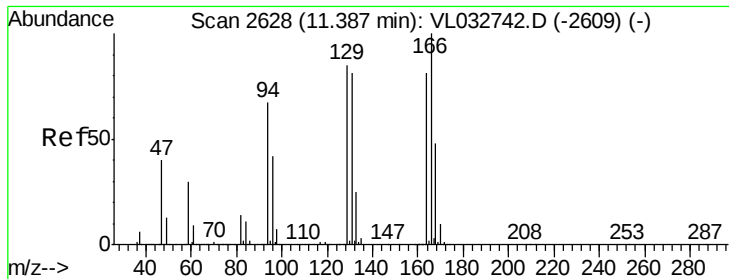
Delta R.T. -0.00 min

Lab File: VL032824.D

Acq: 28 Nov 2018 10:08

Tgt Ion:	42	Resp:	738565
Ion	Ratio	Lower	Upper
42	100		
72	42.1	32.4	48.6
71	40.6	31.6	47.4





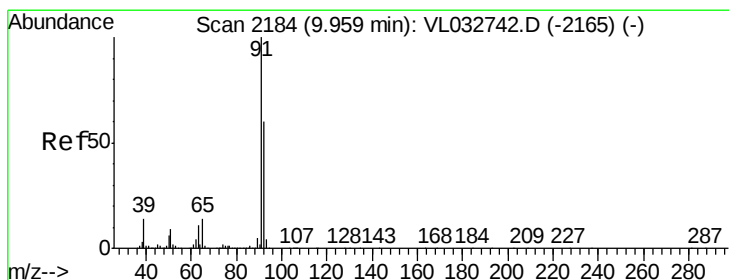
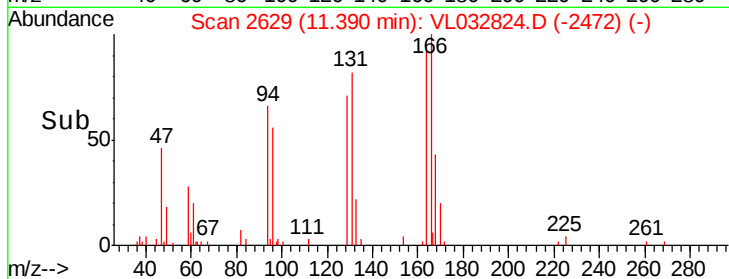
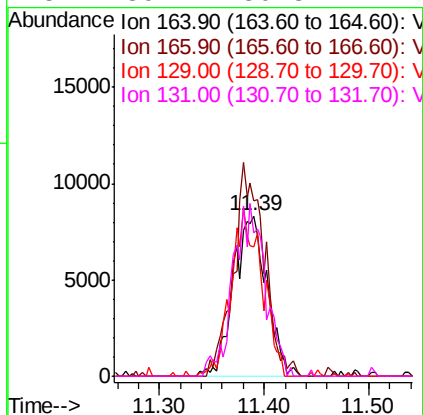
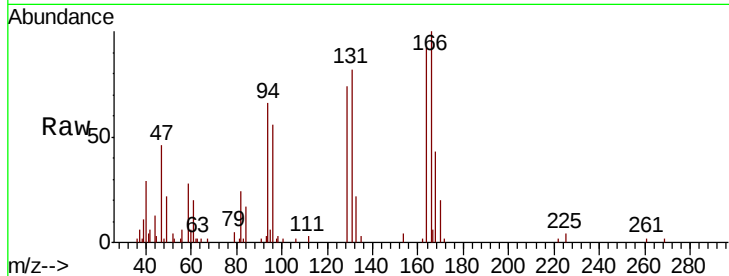
#52
Tetrachloroethene
Concen: 0.209 ppbv m
RT: 11.39 min Scan# 2629
Delta R.T. 0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06

Tot Ion	Ratio	Lower	Upper
164	100		
166	109.1	99.3	148.9
129	80.5	83.9	125.9
131	89.2	80.8	121.2

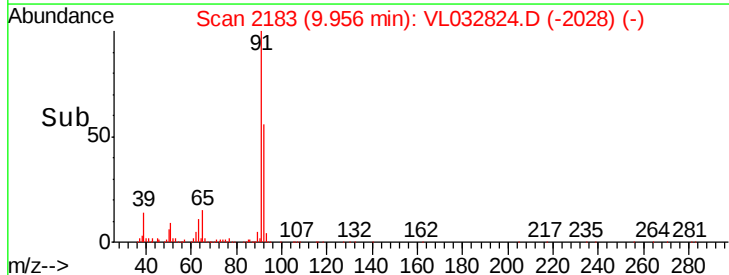
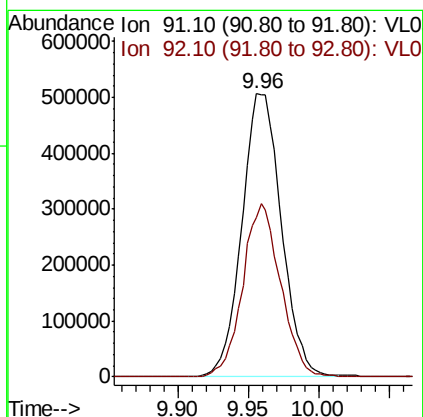
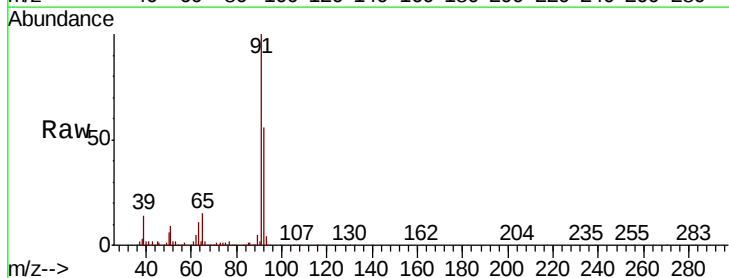
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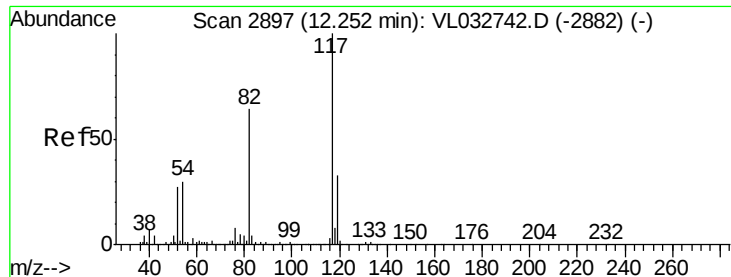
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#53
Toluene
Concen: 3.738 ppbv
RT: 9.96 min Scan# 2183
Delta R.T. -0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.9	71.9





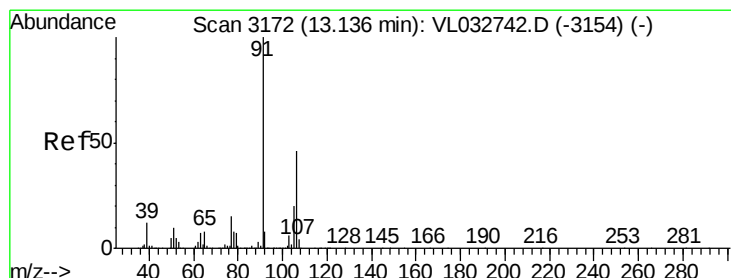
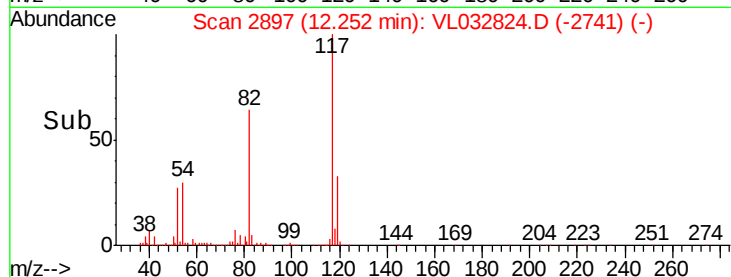
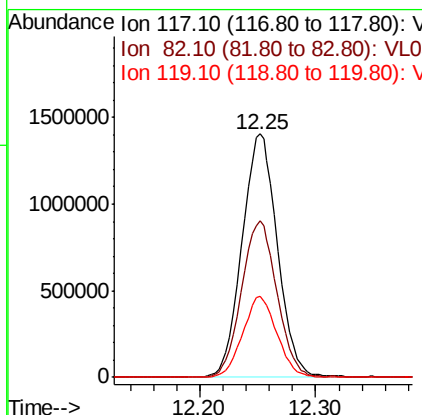
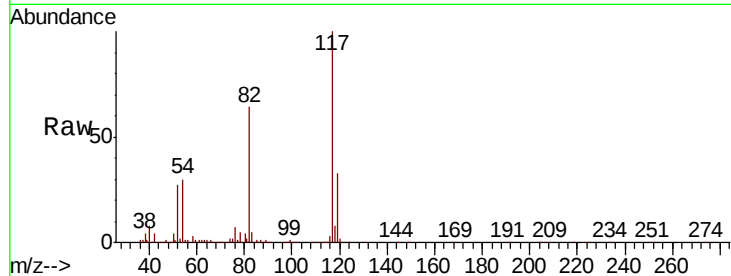
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Instrument :
MSVOA_L
ClientSampled :
EP2-SV-06

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.6	51.0	76.6
119	32.4	28.0	42.0

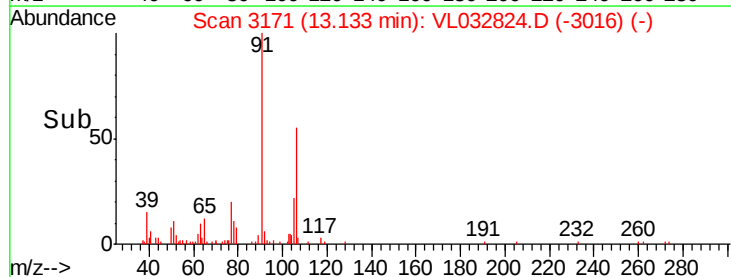
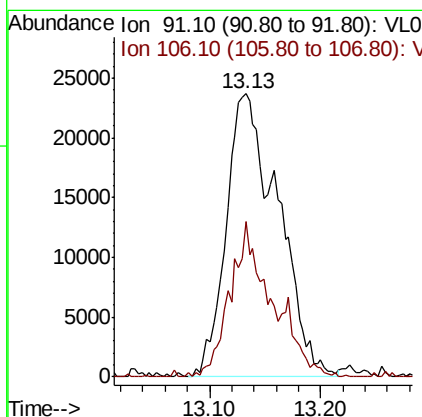
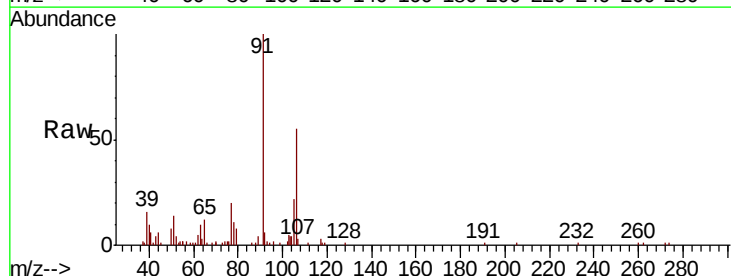
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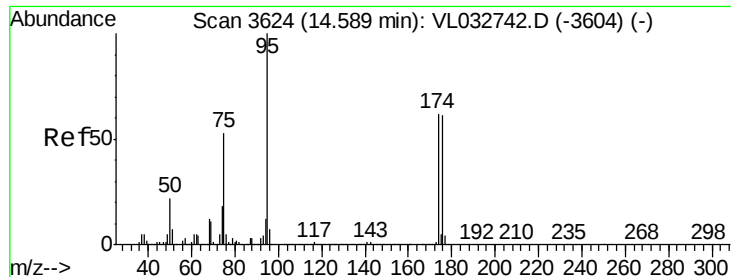
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#59
m/p-Xylene
Concen: 0.240 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032824.D
Acq: 28 Nov 2018 10:08

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.7	36.1	54.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.965 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL032824.D
 Acq: 28 Nov 2018 10:08

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-06

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.5	50.7	76.1
175	4.9	3.8	5.6

Manual Integrations
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