

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032885.D
 Acq On : 4 Dec 2018 20:42
 Operator : SY/AP
 Sample : J6175-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-04DL

Manual Integrations
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 12/10/2018 1:00:36 PM

Quant Time: Dec 05 15:21:55 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 07:00:23 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	5.76	49	1577182	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3961479	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3952239	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2834633	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.17	50	15331	0.221	ppbv	90
7) Chloroethane	3.60	64	27756	1.048	ppbv	95
9) Propene	3.04	41	579825	11.587	ppbv	90
13) Ethanol	3.66	45	69753m	4.256	ppbv	
15) Acetone	3.91	43	590361	4.099	ppbv	94
27) Carbon Disulfide	4.62	76	213956	1.129	ppbv #	94
30) Cyclohexane	7.25	84	29264m	0.224	ppbv	
34) 2-Butanone	5.33	43	1174465	5.716	ppbv	99
36) Benzene	7.01	78	324094	1.027	ppbv	95
41) Tetrahydrofuran	6.17	42	105407	0.894	ppbv	96
51) 2-Hexanone	10.30	43	81440m	0.394	ppbv	
53) Toluene	9.95	91	113200m	0.344	ppbv	
59) m/p-Xylene	13.12	91	47047m	0.111	ppbv	

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

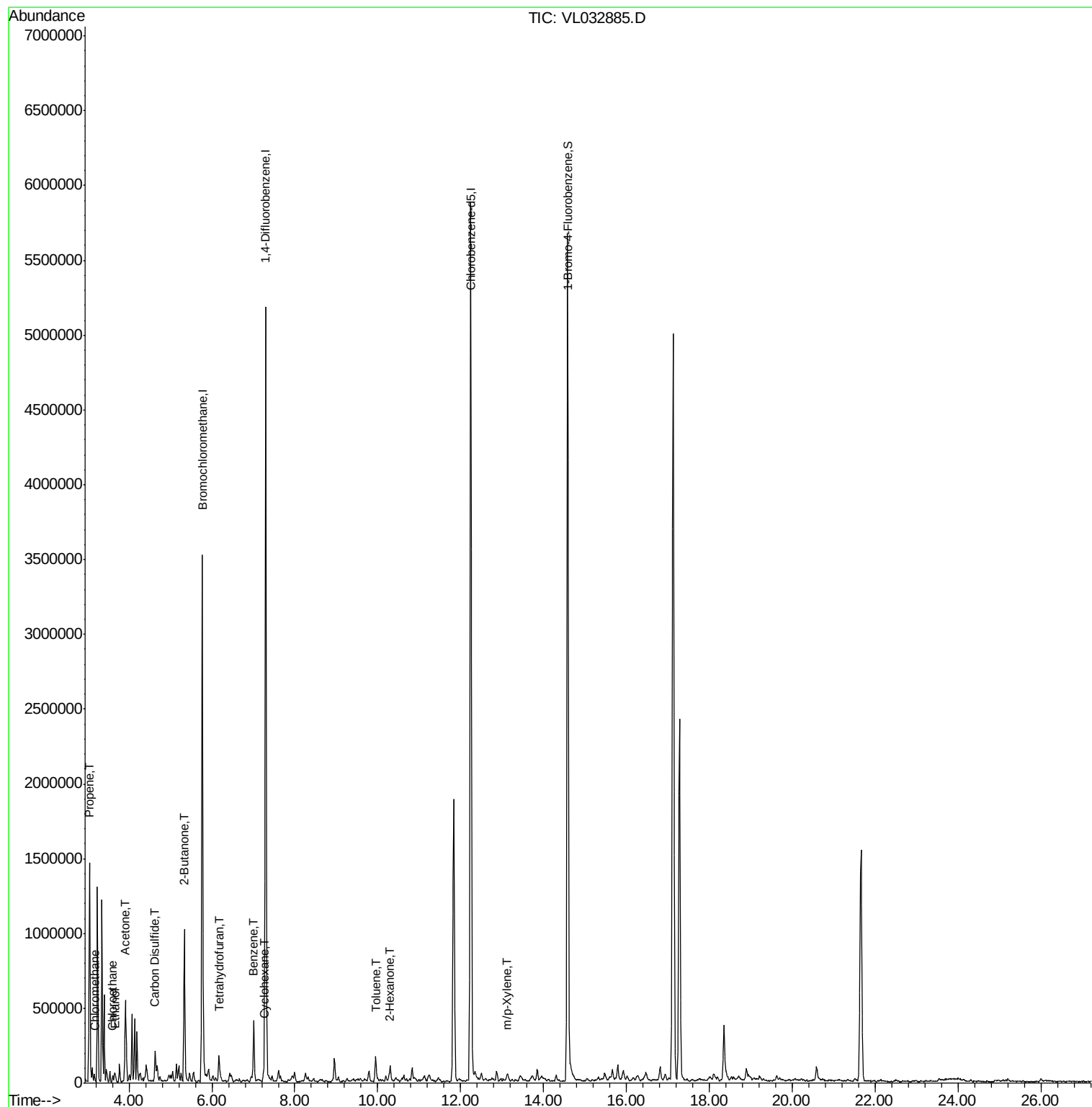
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120418\
Data File : VL032885.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

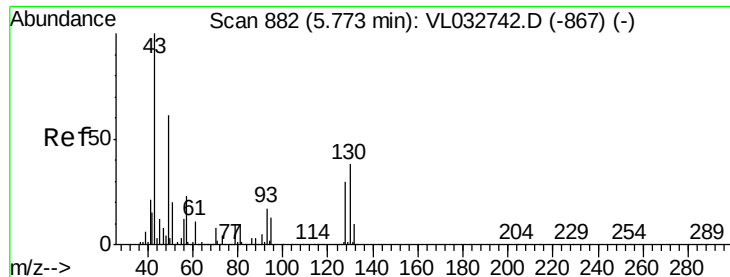
Instrument :
MSVOA_L
ClientSampleId :
MMSV-04DL

Manual Integrations
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Quant Time: Dec 05 15:21:55 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: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032885.D

Acq: 4 Dec 2018 20:42

Instrument :

MSVOA_L

ClientSampled :

MMSV-04DL

Tot Ion: 49 Resp: 1577182

Ion Ratio Lower Upper

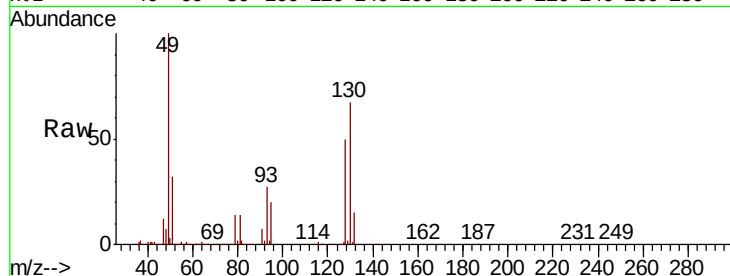
49 100

128 52.3 24.9 74.6

130 67.2 31.4 94.2

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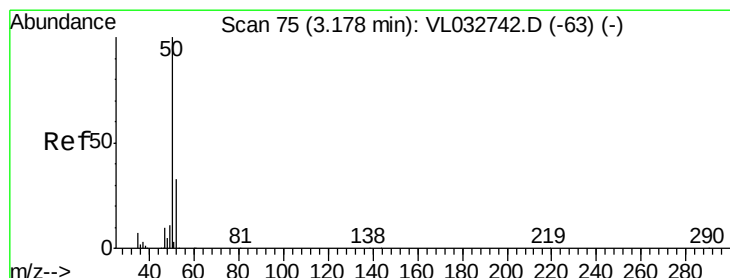
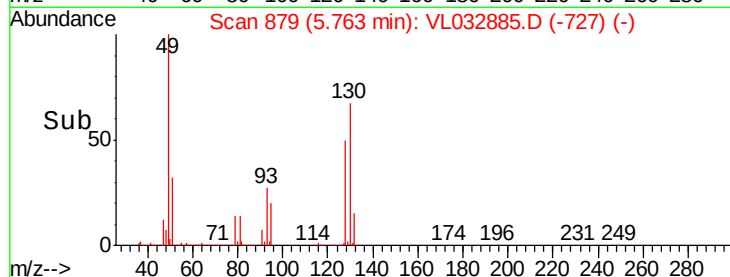
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.76

Time-->



#4

Chloromethane

Concen: 0.221 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032885.D

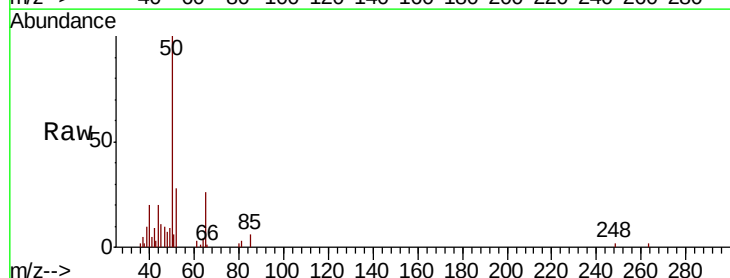
Acq: 4 Dec 2018 20:42

Tgt Ion: 50 Resp: 15331

Ion Ratio Lower Upper

50 100

52 27.8 26.6 40.0

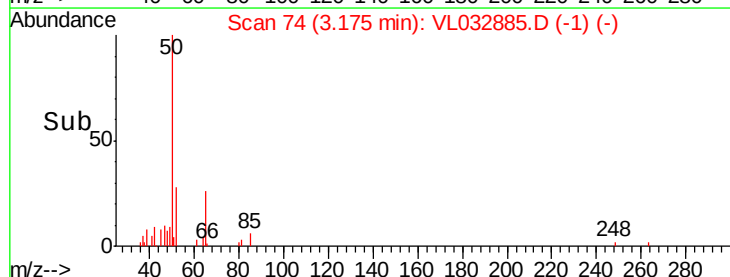


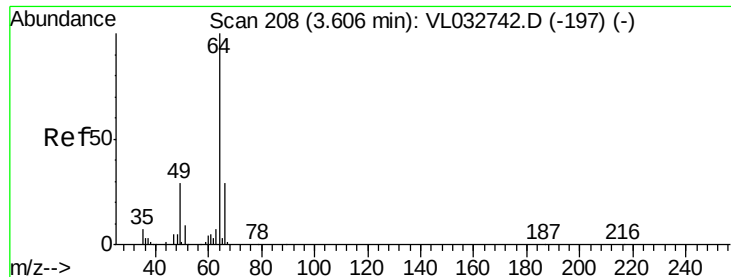
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

Time-->





#7

Chloroethane

Concen: 1.048 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL032885.D

Acq: 4 Dec 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

MMSV-04DL

Tot Ion: 64 Resp: 27756

Ion Ratio Lower Upper

64 100

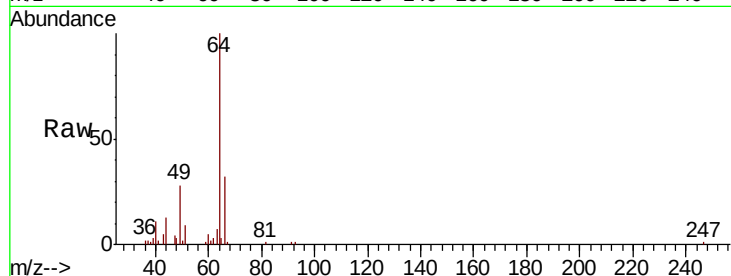
66 31.6 23.2 34.8

Manual Integrations

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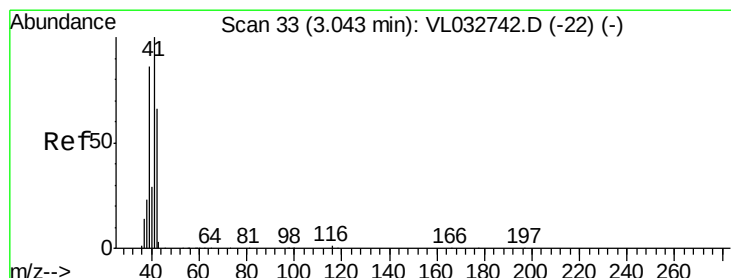
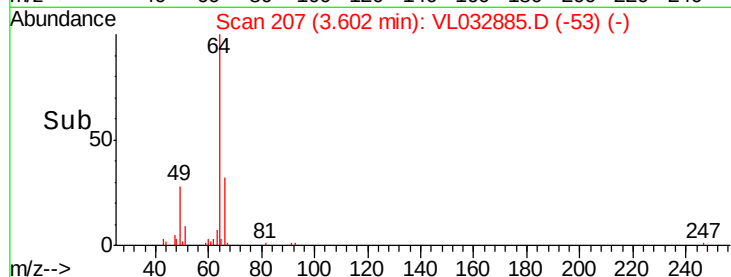
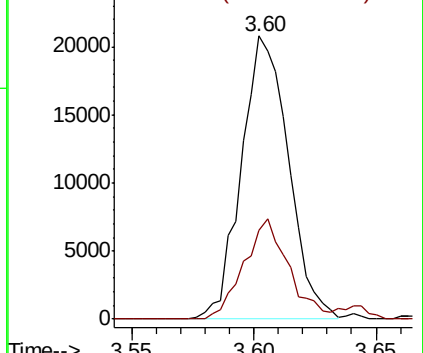
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 11.587 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032885.D

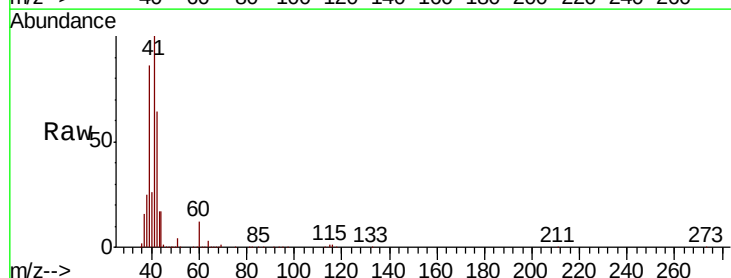
Acq: 4 Dec 2018 20:42

Tgt Ion: 41 Resp: 579825

Ion Ratio Lower Upper

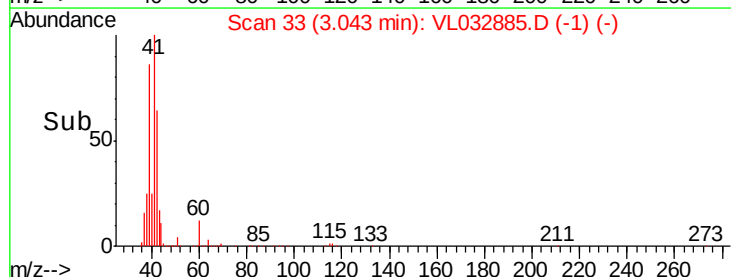
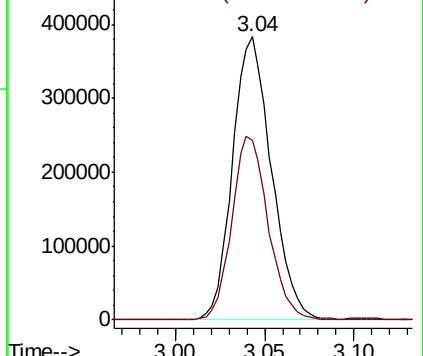
41 100

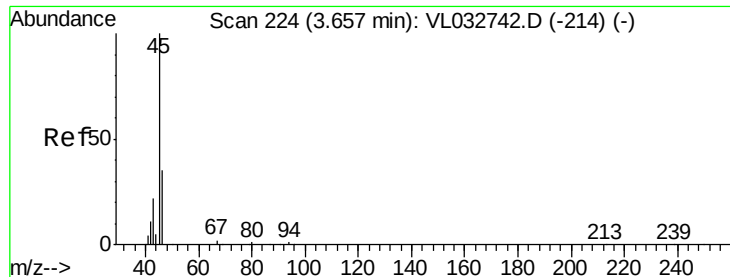
42 60.9 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 4.256 ppbv m

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL032885.D

Acq: 4 Dec 2018 20:42

Tot Ion: 45 Resp: 69753

Ion Ratio Lower Upper

45 100

46 35.7 14.5 57.9

Instrument :

MSVOA_L

ClientSampleId :

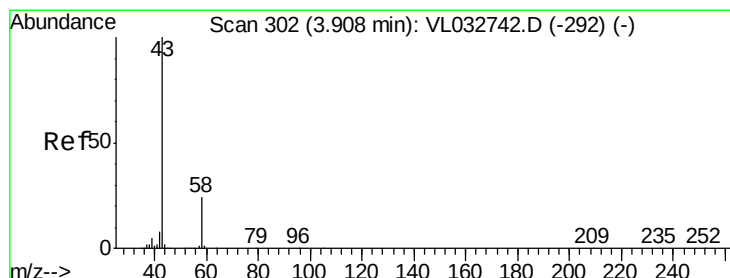
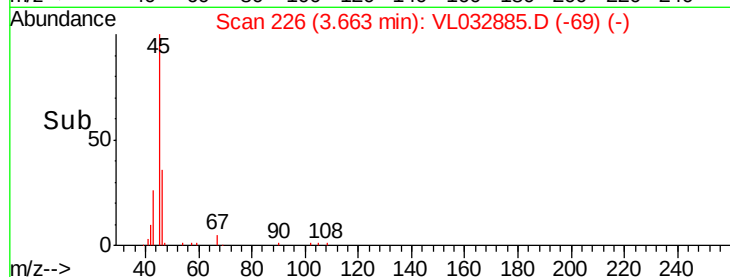
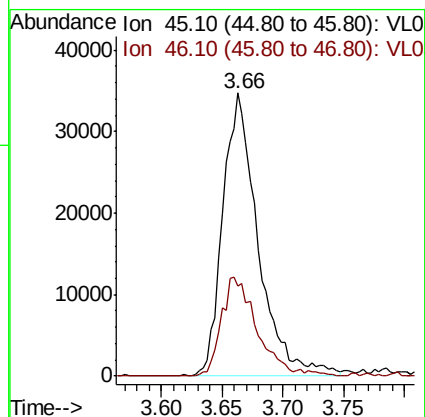
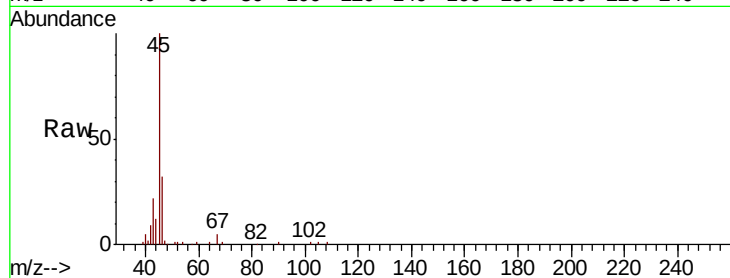
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#15

Acetone

Concen: 4.099 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032885.D

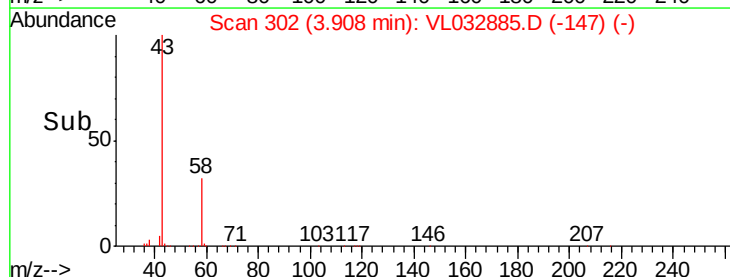
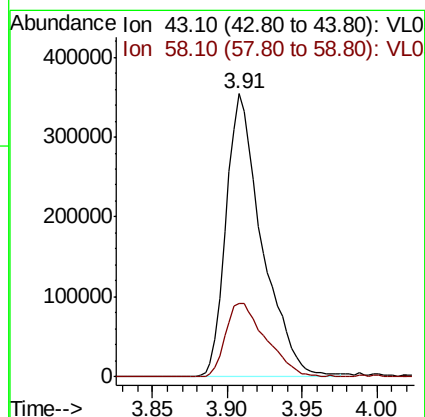
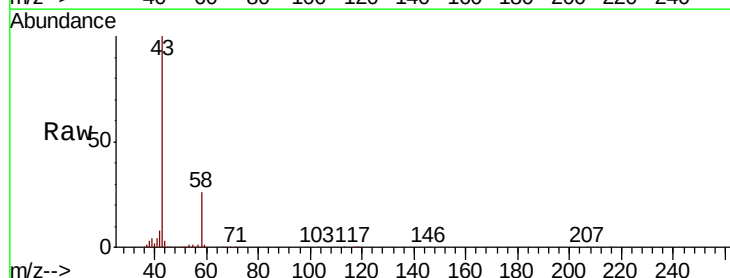
Acq: 4 Dec 2018 20:42

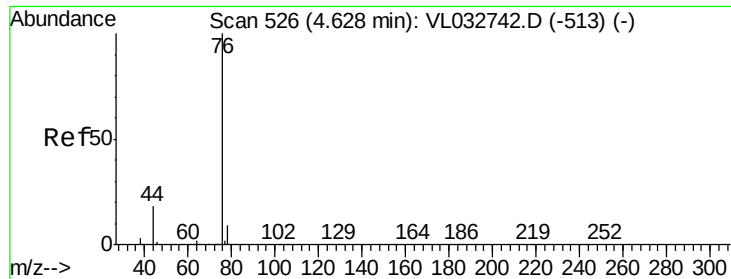
Tgt Ion: 43 Resp: 590361

Ion Ratio Lower Upper

43 100

58 29.5 21.1 31.7





#27

Carbon Disulfide

Concen: 1.129 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032885.D

Acq: 4 Dec 2018 20:42

Instrument :

MSVOA_L

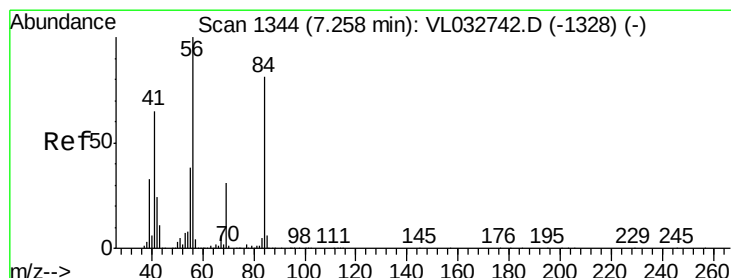
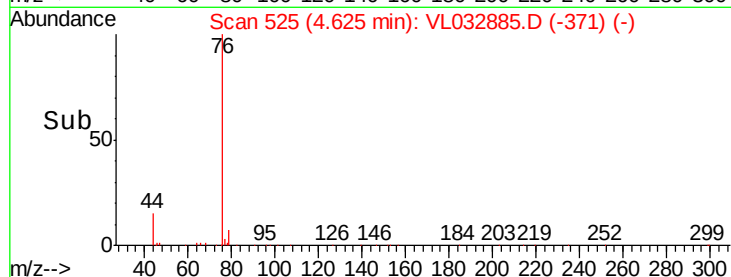
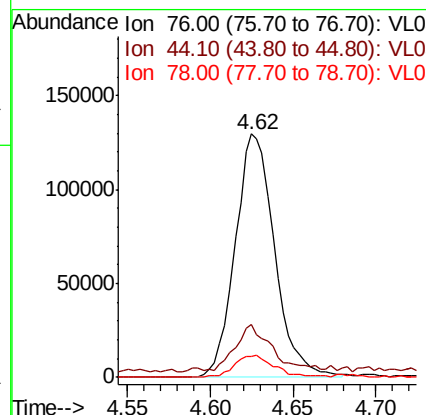
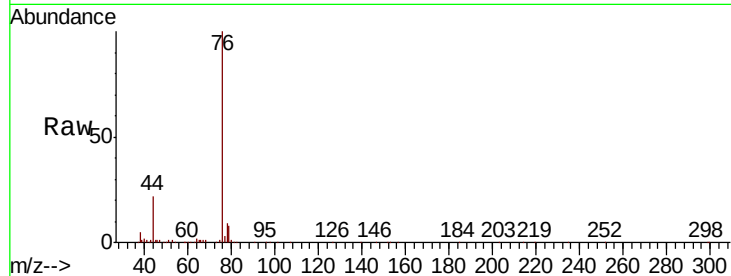
ClientSampleId :

MMSV-04DL

Tot Ion:	76	Resp:	213956
Ion Ratio	Lower	Upper	
76	100		
44	22.1	14.4	21.6#
78	9.3	7.7	11.5

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#30

Cyclohexane

Concen: 0.224 ppbv m

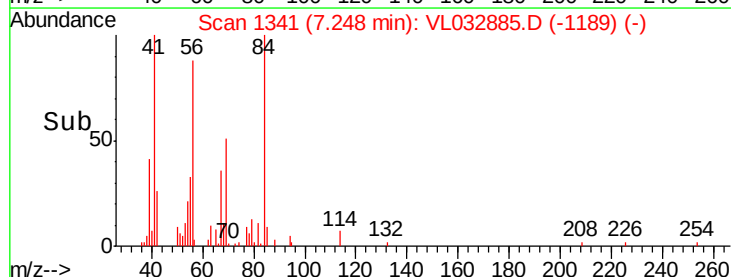
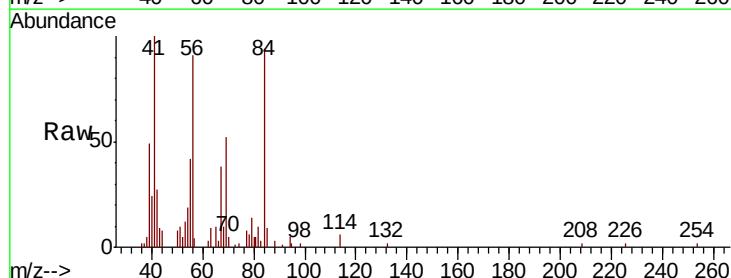
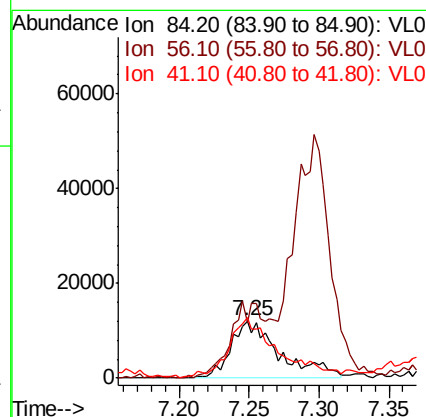
RT: 7.25 min Scan# 1341

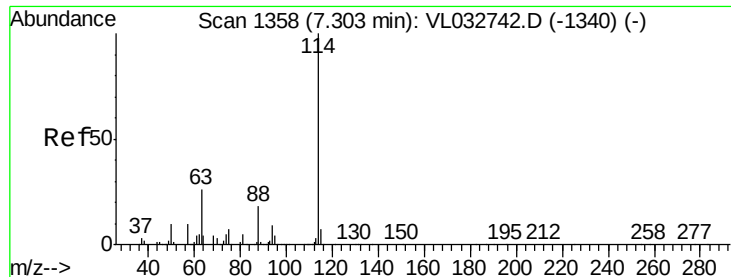
Delta R.T. -0.01 min

Lab File: VL032885.D

Acq: 4 Dec 2018 20:42

Tgt Ion:	84	Resp:	29264
Ion Ratio	Lower	Upper	
84	100		
56	0.0	105.0	157.4#
41	103.7	65.3	97.9#





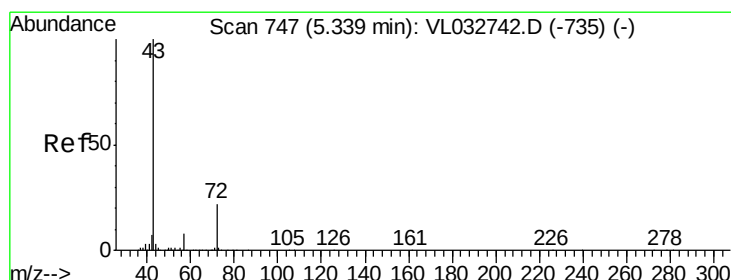
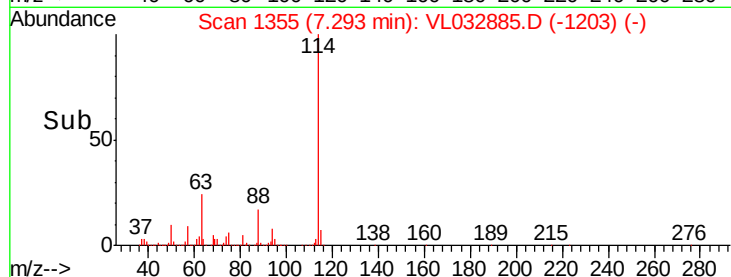
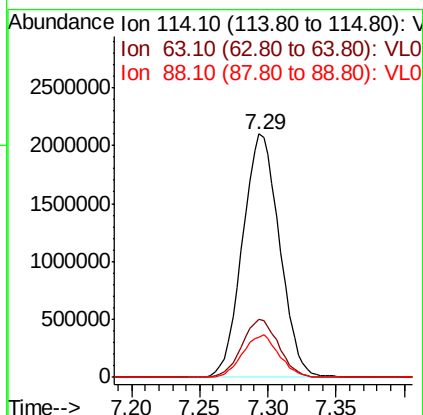
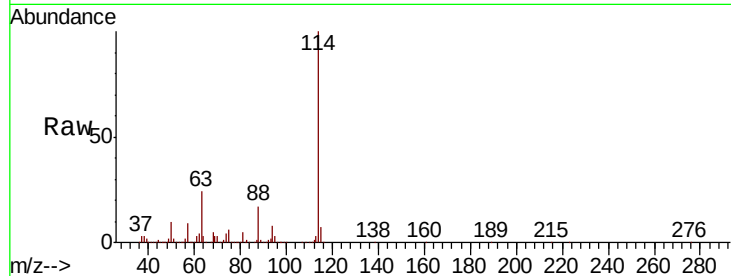
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032885.D
 Acq: 4 Dec 2018 20:42

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-04DL

Tot Ion:114 Resp: 3961479
 Ion Ratio Lower Upper
 114 100
 63 23.3 20.9 31.3
 88 17.2 14.4 21.6

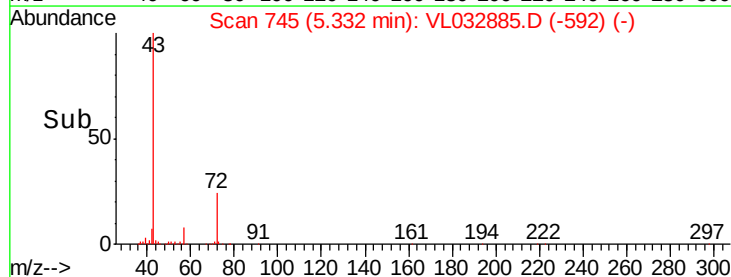
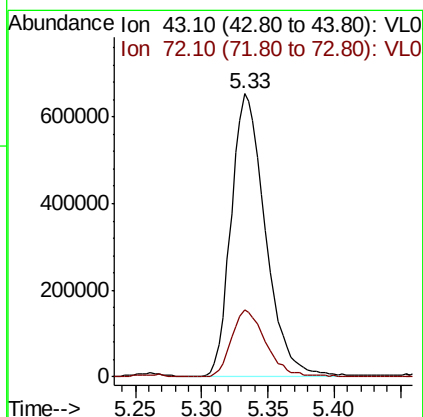
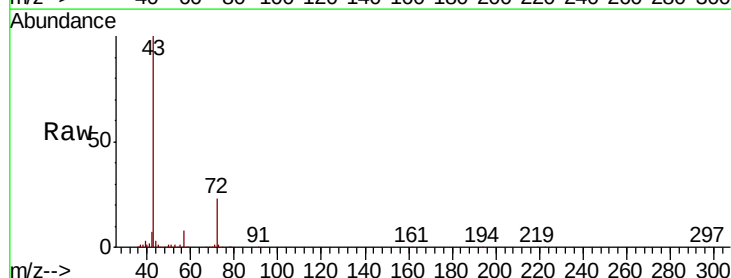
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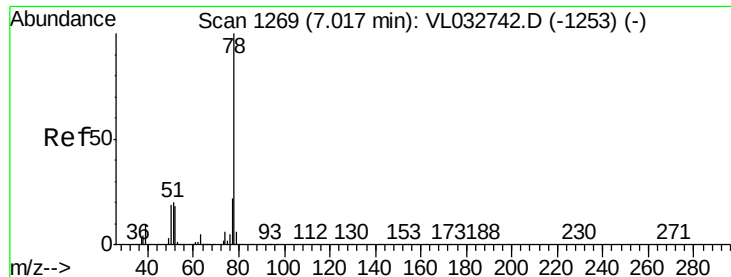
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#34
 2-Butanone
 Concen: 5.716 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: VL032885.D
 Acq: 4 Dec 2018 20:42

Tgt Ion: 43 Resp: 1174465
 Ion Ratio Lower Upper
 43 100
 72 23.7 18.4 27.6





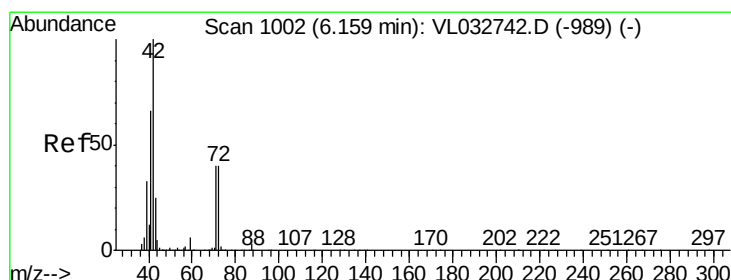
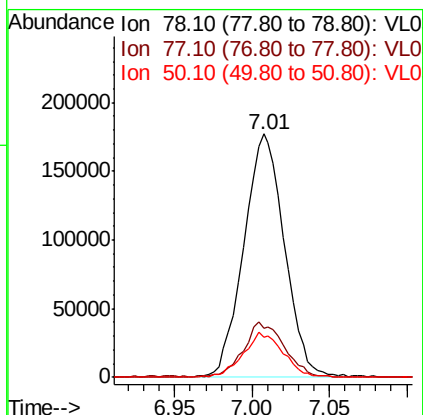
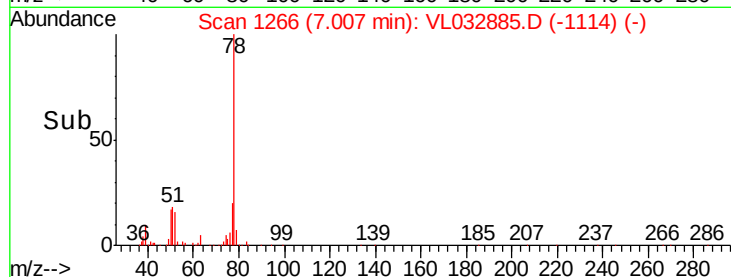
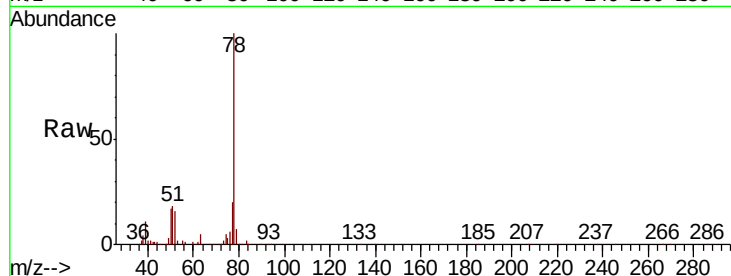
#36
Benzene
Concen: 1.027 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VL032885.D
Acq: 4 Dec 2018 20:42

Instrument :
MSVOA_L
ClientSampleId :
MMSV-04DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.1	17.8	26.8
50	16.6	15.4	23.0

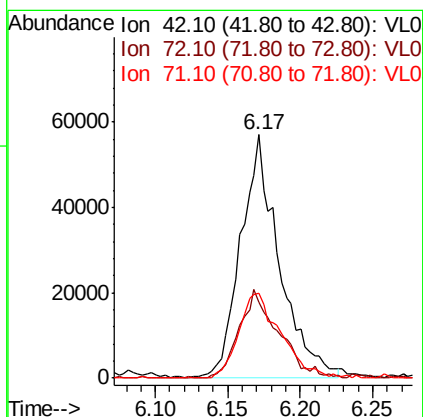
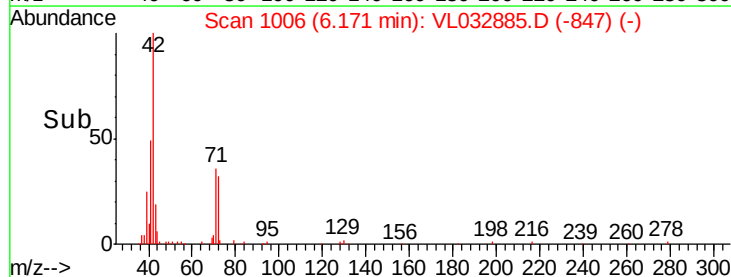
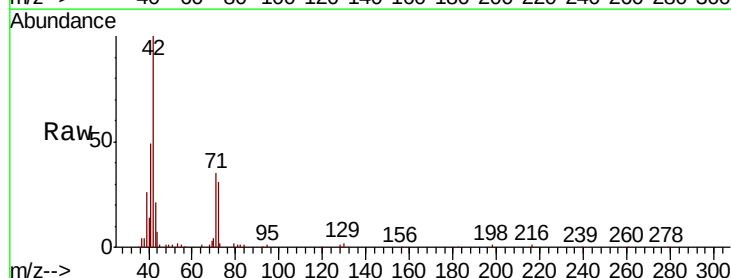
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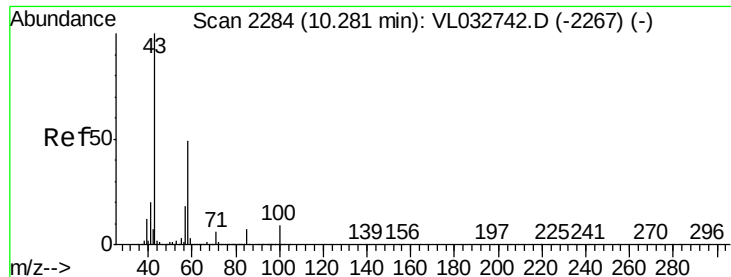
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#41
Tetrahydrofuran
Concen: 0.894 ppbv
RT: 6.17 min Scan# 1006
Delta R.T. 0.01 min
Lab File: VL032885.D
Acq: 4 Dec 2018 20:42

Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.0	32.4	48.6
71	37.9	31.6	47.4





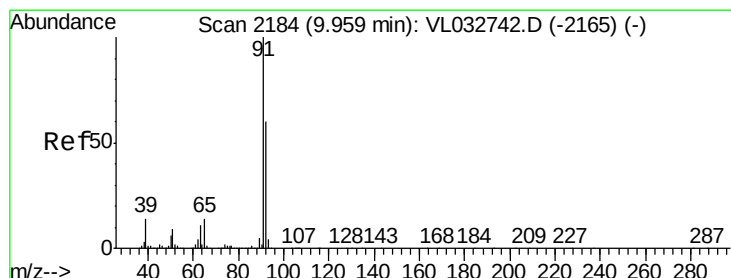
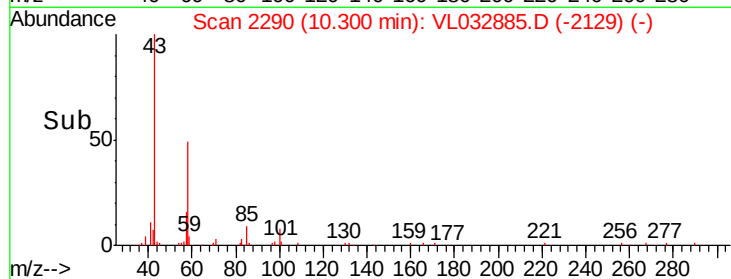
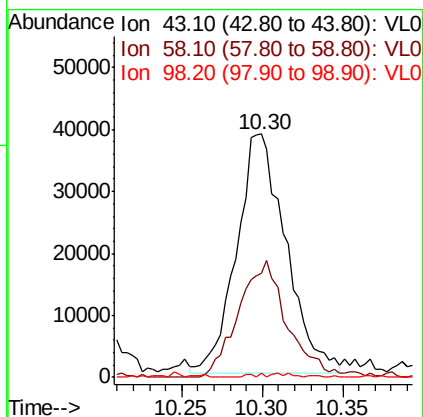
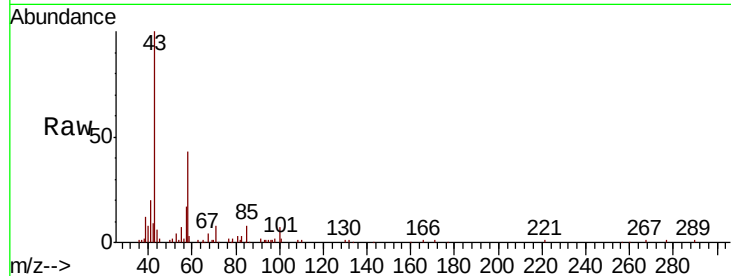
#51
2-Hexanone
Concen: 0.394 ppbv m
RT: 10.30 min Scan# 2290
Delta R.T. 0.02 min
Lab File: VL032885.D
Acq: 4 Dec 2018 20:42

Instrument :
MSVOA_L
ClientSampleId :
MMSV-04DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.9	58.3#
98	0.8	0.2	0.4#

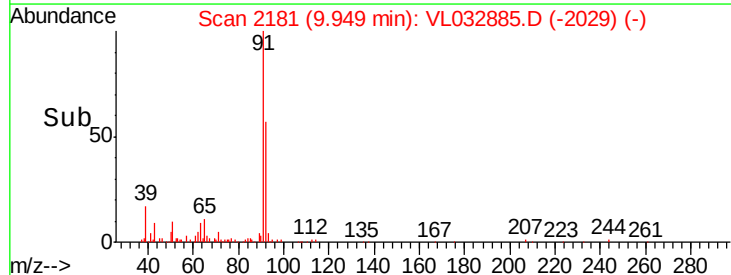
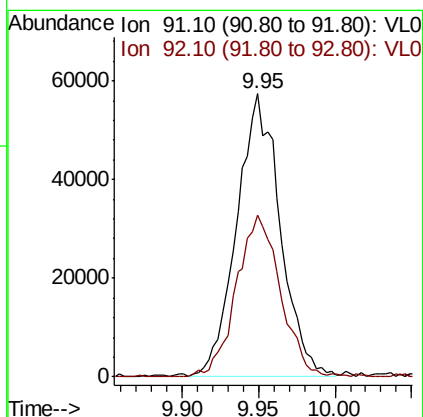
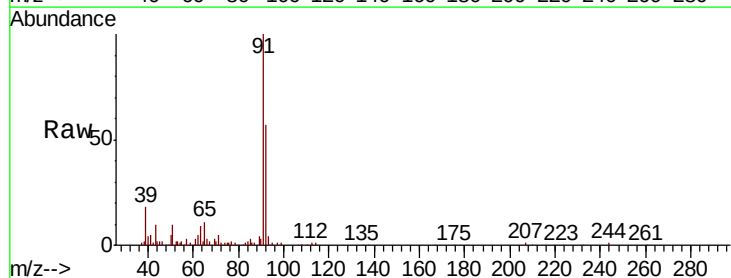
Manual Integrations
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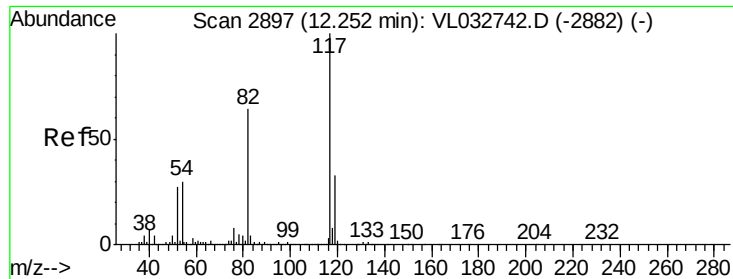
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#53
Toluene
Concen: 0.344 ppbv m
RT: 9.95 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL032885.D
Acq: 4 Dec 2018 20:42

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.9	71.9





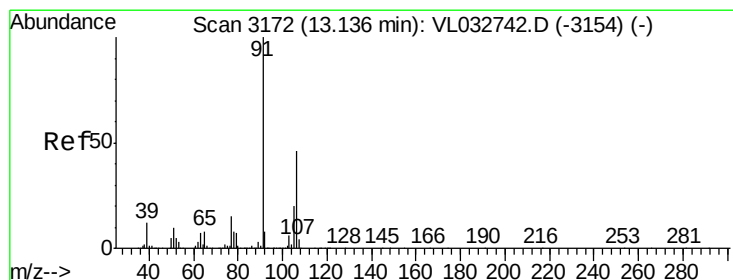
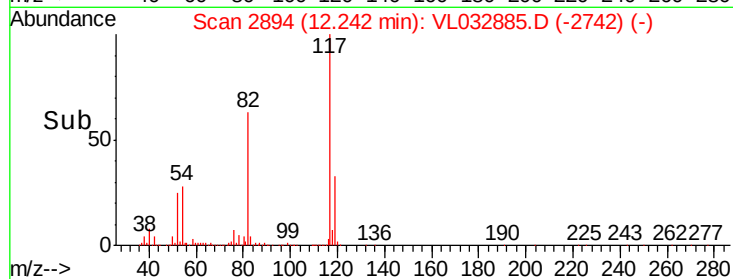
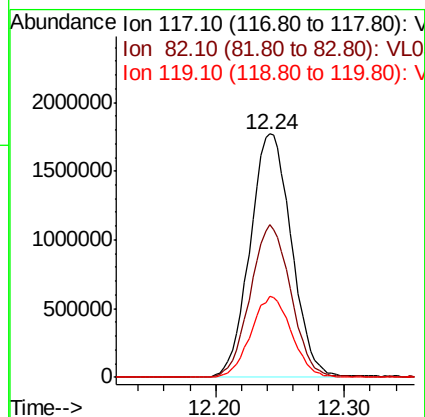
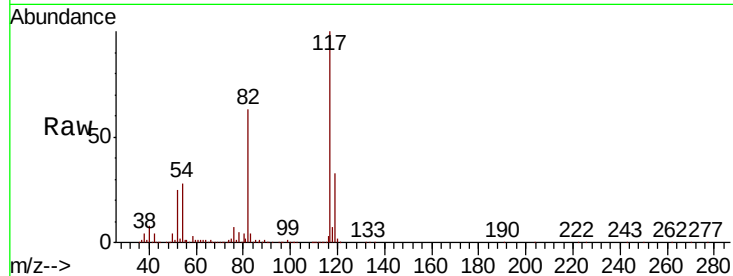
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL032885.D
Acq: 4 Dec 2018 20:42

Instrument :
MSVOA_L
ClientSampleId :
MMSV-04DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.6	51.0	76.6
119	32.9	28.0	42.0

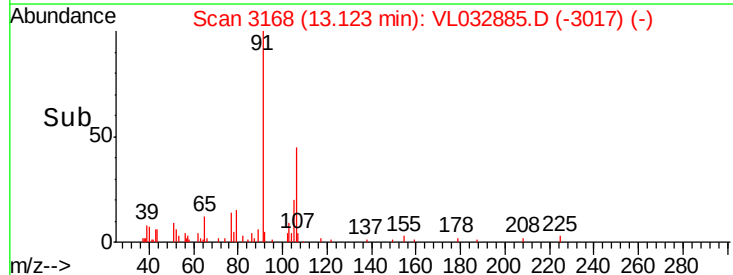
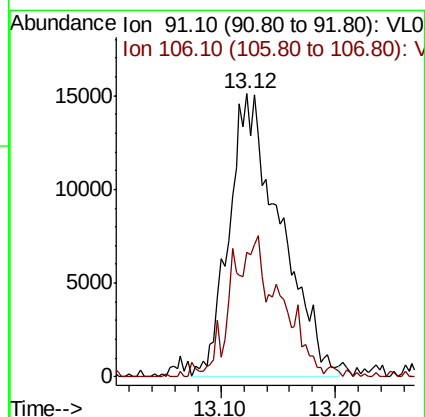
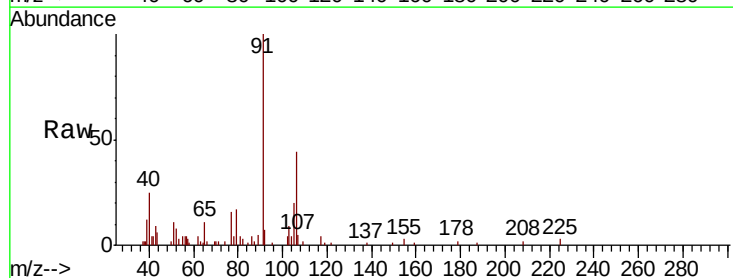
Manual Integrations
APPROVED

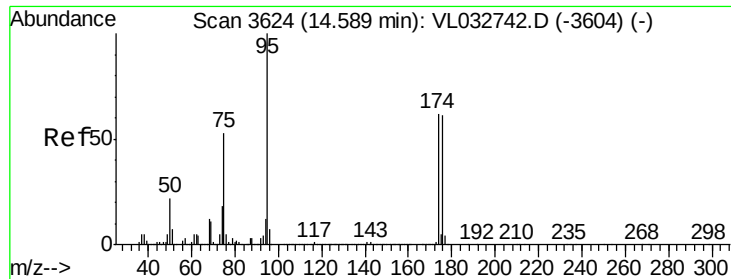
MMDadoda
12/10/2018 1:00:36 PM



#59
m/p-Xylene
Concen: 0.111 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL032885.D
Acq: 4 Dec 2018 20:42

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.1	54.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.589 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032885.D

Acq: 4 Dec 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

MMSV-04DL

Tot Ion: 95 Resp: 2834633

Ion Ratio Lower Upper

95 100

174 66.4 50.7 76.1

175 5.0 3.8 5.6

Manual Integrations

APPROVED

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12/10/2018 1:00:36 PM

