

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
 Data File : VL032553.D
 Acq On : 27 Sep 2018 17:16
 Operator : SY/AP
 Sample : J5136-01 1.4X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 239-LODGE

Manual Integrations
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 10/1/2018 11:57:37 AM

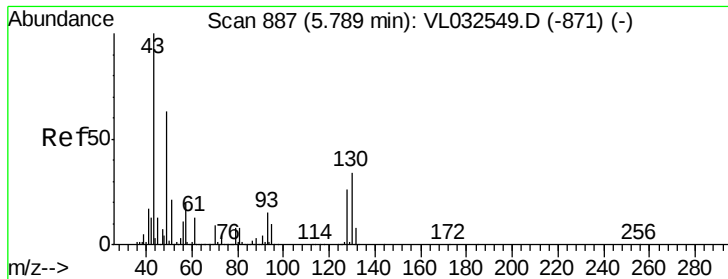
Quant Time: Sep 28 10:20:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Sep 28
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1260329	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.32	114	2649053	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2941413	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2082123	9.39	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	27513	0.236	ppbv	100
3) Chlorodifluoromethane	3.03	51	1135430	10.833	ppbv	97
4) Chloromethane	3.18	50	25149	0.412	ppbv	99
9) Propene	3.05	41	19331	0.425	ppbv	99
11) Trichlorofluoromethane	4.03	101	27318	0.197	ppbv	100
13) Ethanol	3.67	45	79726	5.833	ppbv	96
15) Acetone	3.92	43	661678	5.981	ppbv	95
19) Isopropyl Alcohol	4.05	45	21686m	0.281	ppbv	
20) Methylene Chloride	4.43	84	234250	4.373	ppbv	98
26) Hexane	5.81	57	207162	1.708	ppbv #	44
27) Carbon Disulfide	4.64	76	45517m	0.349	ppbv	
34) 2-Butanone	5.36	43	247132	1.567	ppbv	97
35) Carbon Tetrachloride	7.16	117	12646m	0.069	ppbv	
36) Benzene	7.03	78	25766	0.120	ppbv #	88
38) Trichloroethene	7.99	130	3815m	0.047	ppbv	
53) Toluene	9.98	91	33459m	0.128	ppbv	
73) 1,3,5-Trimethylbenzene	16.20	105	51547m	0.158	ppbv	
74) 1,2,4-Trimethylbenzene	16.96	105	146658	0.418	ppbv #	71

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.03 min

Lab File: VL032553.D

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Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion: 49 Resp: 1260329

Ion Ratio Lower Upper

49 100

128 43.5 20.7 62.1

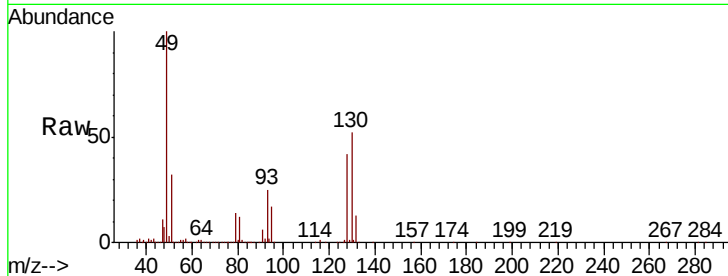
130 55.0 26.6 79.7

Manual Integrations

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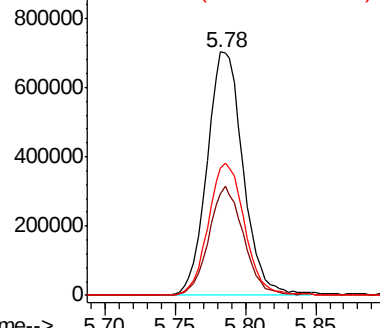
10/1/2018 11:57:37 AM



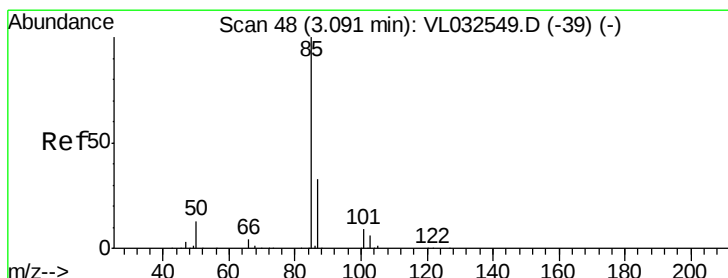
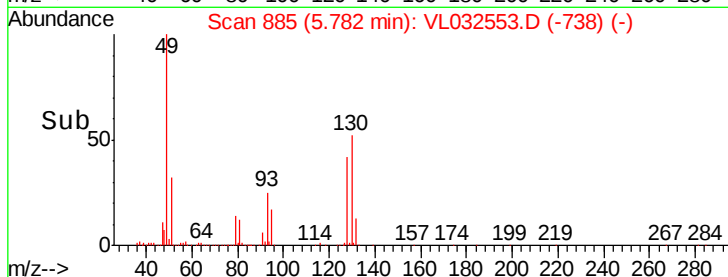
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.236 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032553.D

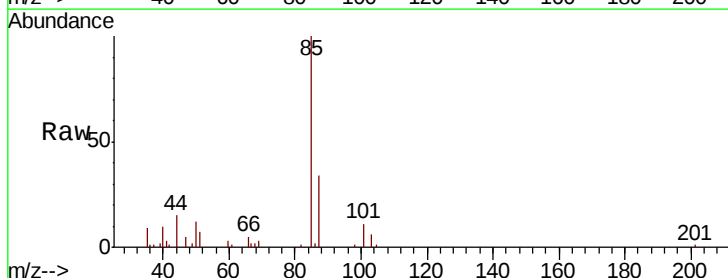
Acq: 27 Sep 2018 17:16

Tgt Ion: 85 Resp: 27513

Ion Ratio Lower Upper

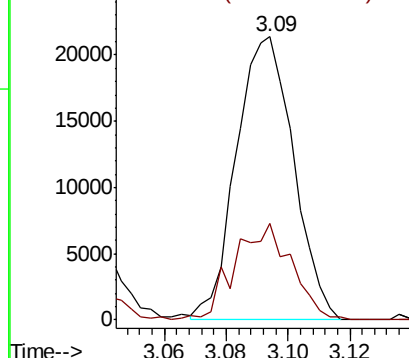
85 100

87 33.1 26.2 39.4

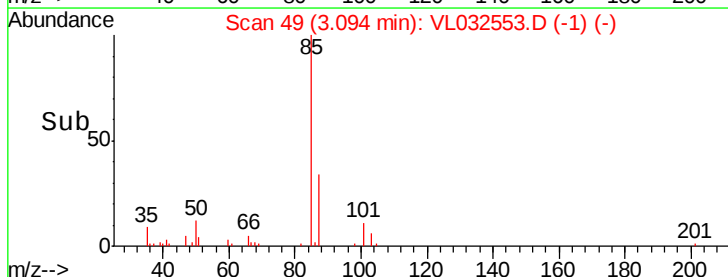


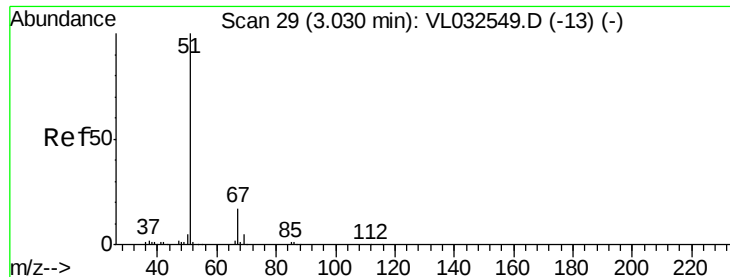
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





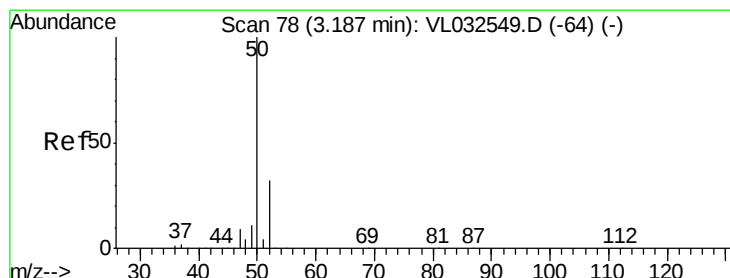
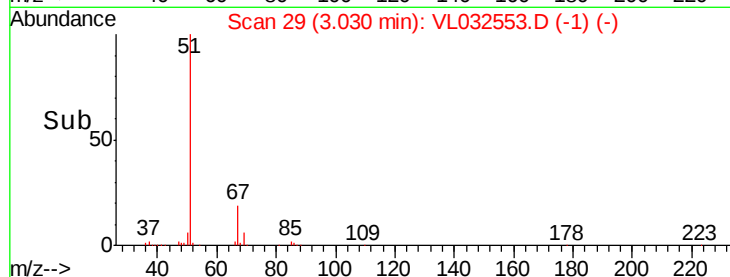
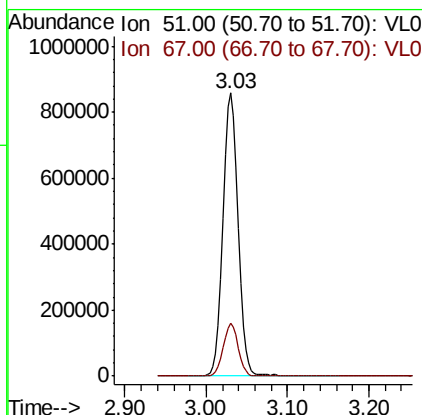
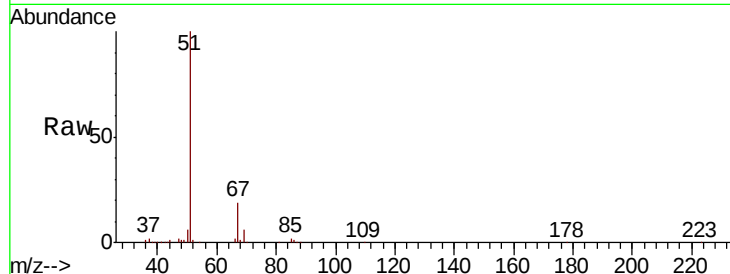
#3
Chlorodifluoromethane
Concen: 10.833 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032553.D
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MSVOA_L
ClientSampleId :
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Tgt Ion: 51 Resp: 1135430
Ion Ratio Lower Upper
51 100
67 18.5 13.8 20.8

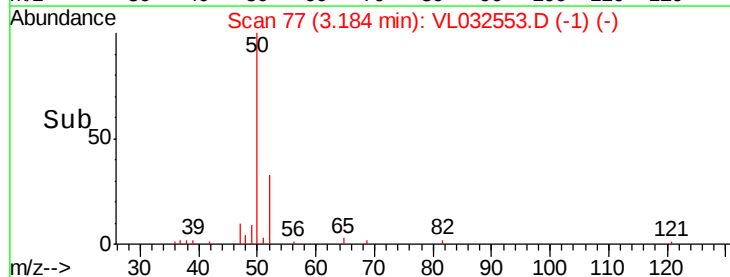
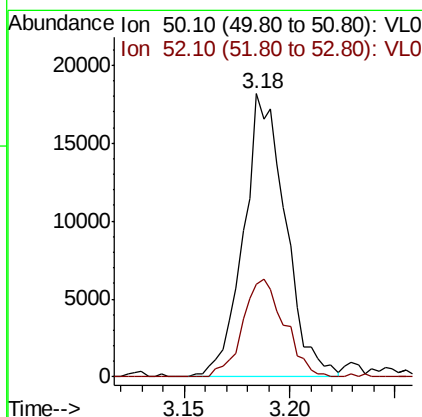
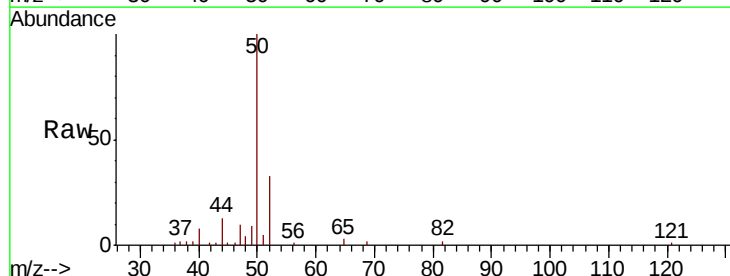
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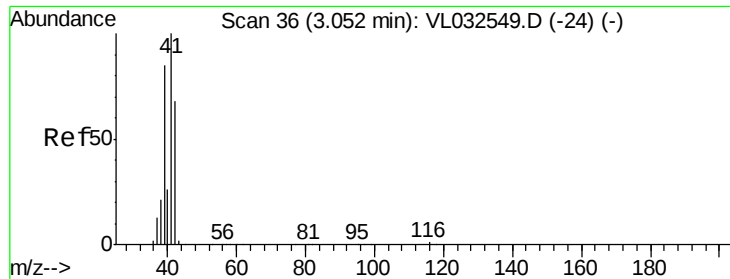
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#4
Chloromethane
Concen: 0.412 ppbv
RT: 3.18 min Scan# 77
Delta R.T. -0.02 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

Tgt Ion: 50 Resp: 25149
Ion Ratio Lower Upper
50 100
52 32.8 25.6 38.4





#9

Propene

Concen: 0.425 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032553.D

Acq: 27 Sep 2018 17:16

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion: 41 Resp: 19331

Ion Ratio Lower Upper

41 100

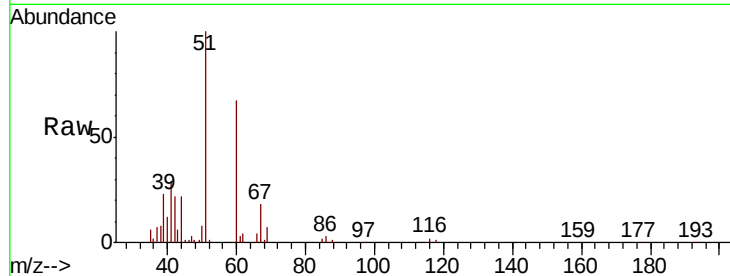
42 70.0 56.6 84.8

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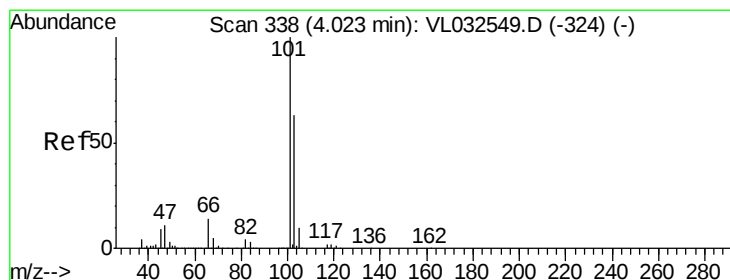
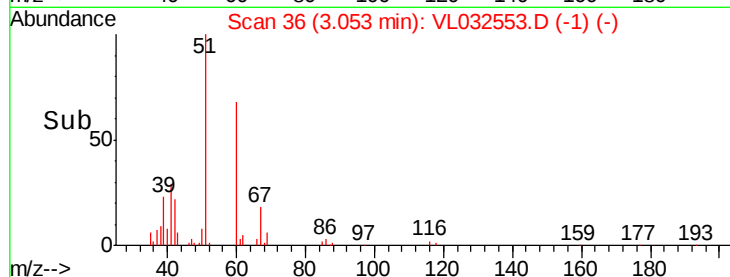
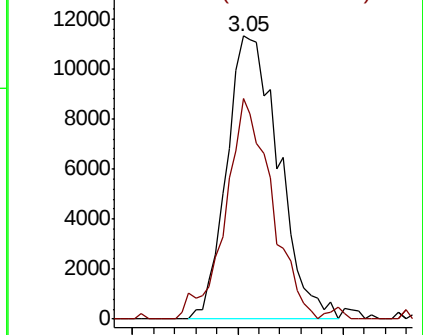
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.197 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL032553.D

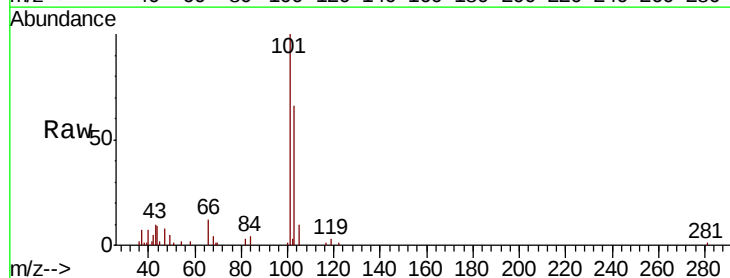
Acq: 27 Sep 2018 17:16

Tgt Ion: 101 Resp: 27318

Ion Ratio Lower Upper

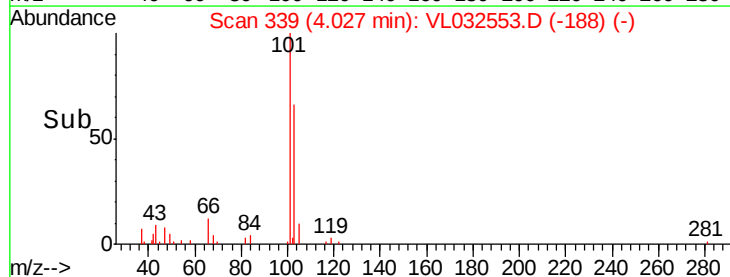
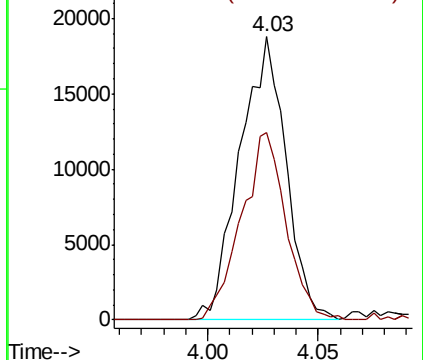
101 100

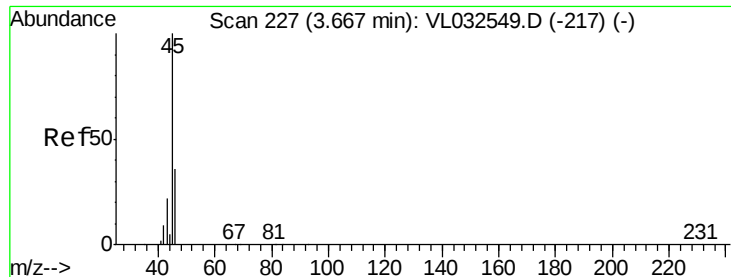
103 66.0 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





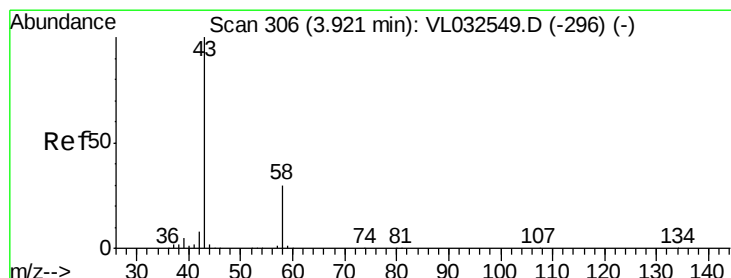
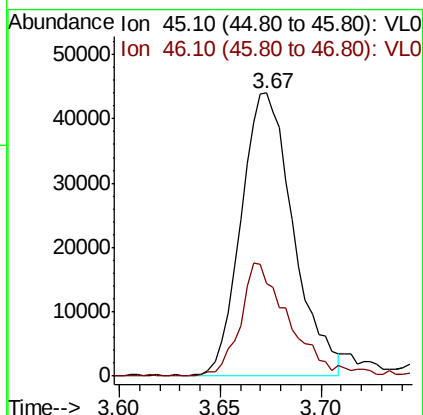
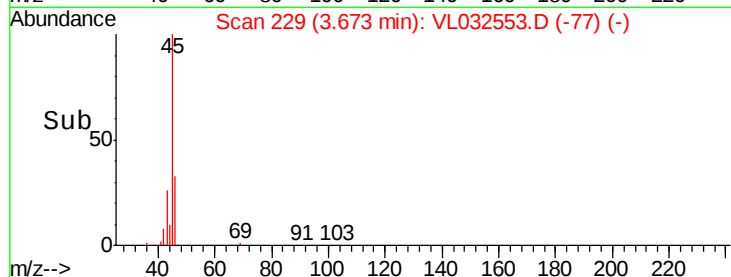
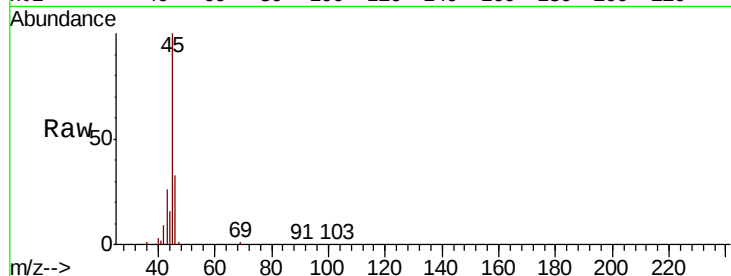
#13
Ethanol
Concen: 5.833 ppbv
RT: 3.67 min Scan# 229
Delta R.T. -0.01 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

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MSVOA_L
ClientSampleId :
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Tgt Ion: 45 Resp: 79726
Ion Ratio Lower Upper
45 100
46 37.9 14.2 56.8

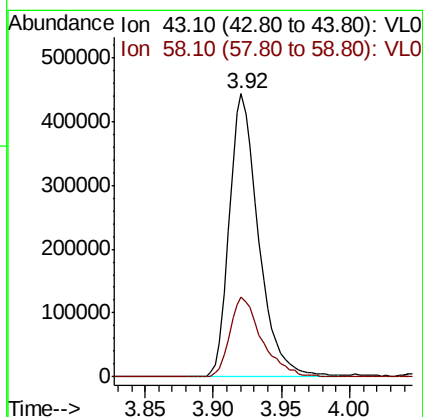
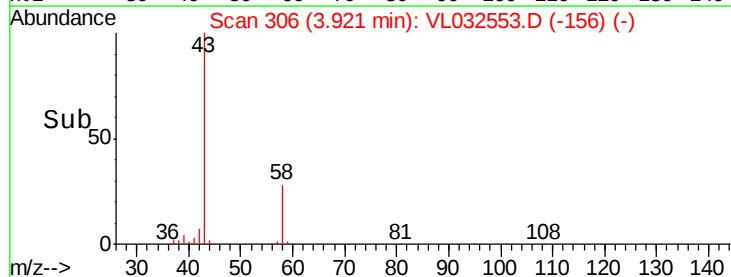
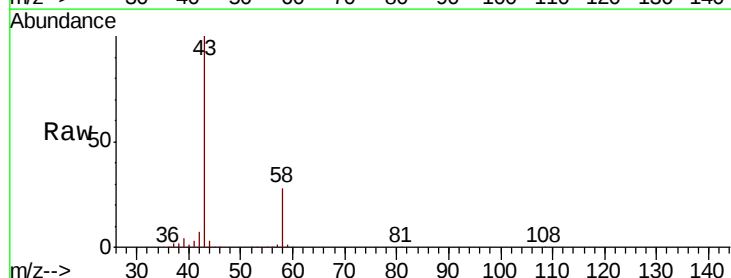
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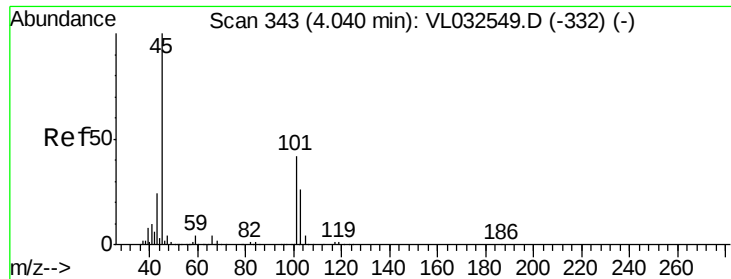
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#15
Acetone
Concen: 5.981 ppbv
RT: 3.92 min Scan# 306
Delta R.T. -0.02 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

Tgt Ion: 43 Resp: 661678
Ion Ratio Lower Upper
43 100
58 30.9 22.6 33.8





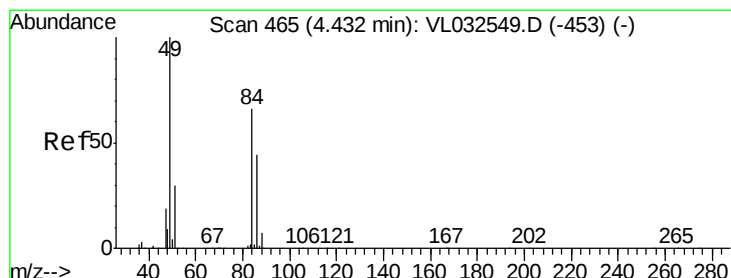
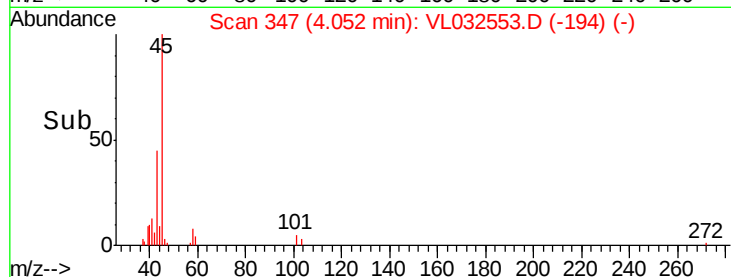
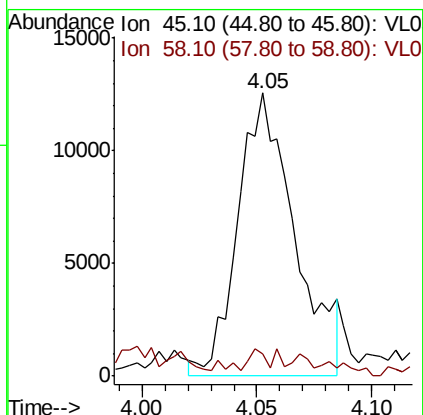
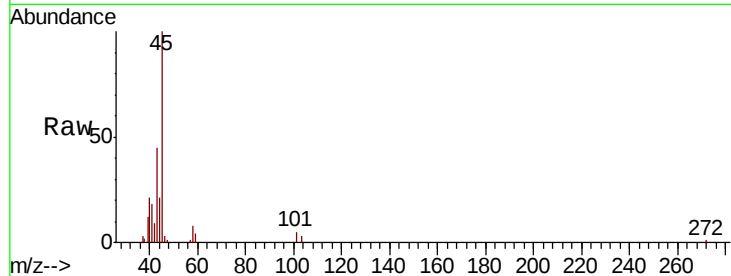
#19
Isopropyl Alcohol
Concen: 0.281 ppbv m
RT: 4.05 min Scan# 347
Delta R.T. -0.01 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 45 Resp: 21686
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#

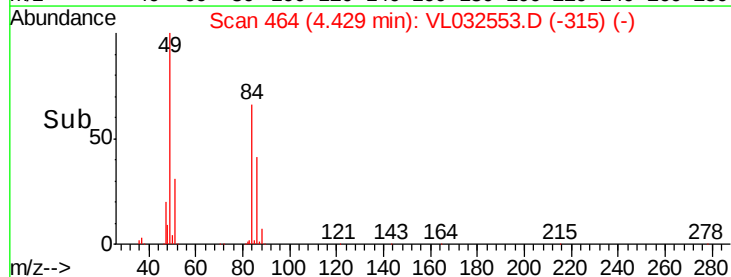
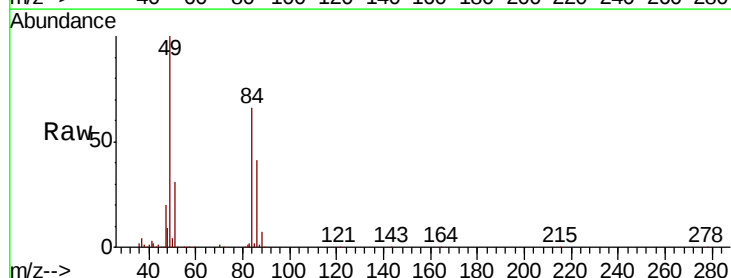
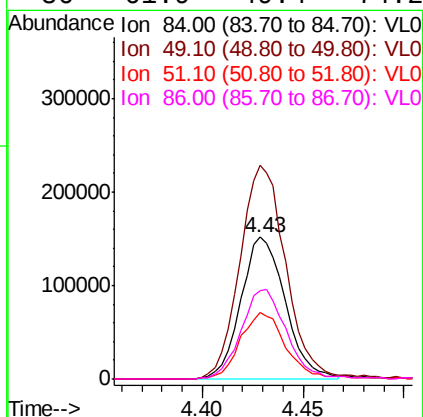
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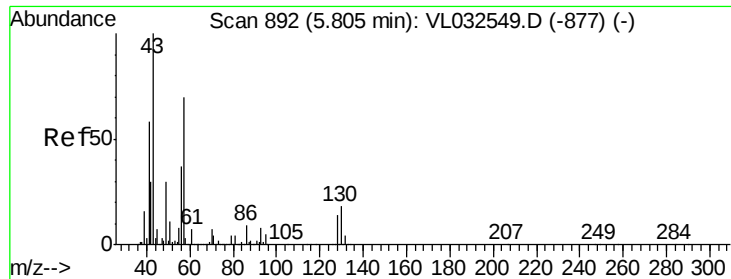
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#20
Methylene Chloride
Concen: 4.373 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.02 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

Tgt Ion: 84 Resp: 234250
Ion Ratio Lower Upper
84 100
49 150.9 119.1 178.7
51 46.4 35.2 52.8
86 61.9 49.4 74.2





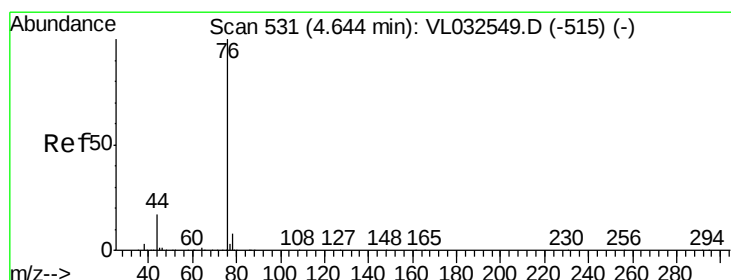
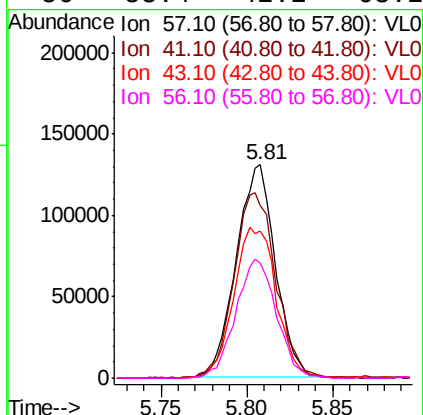
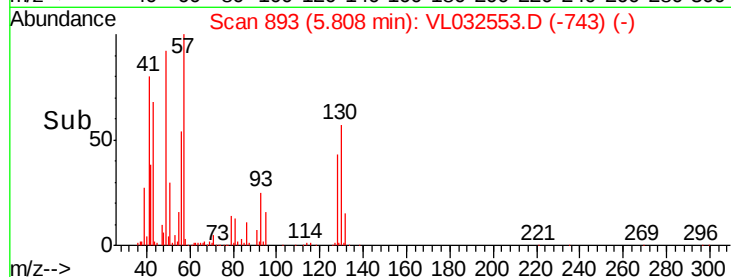
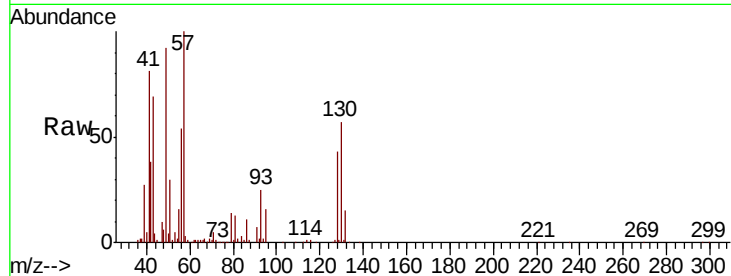
#26
Hexane
Concen: 1.708 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

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ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.7	69.0	103.4
43	77.3	172.1	258.1#
56	58.4	42.2	63.2

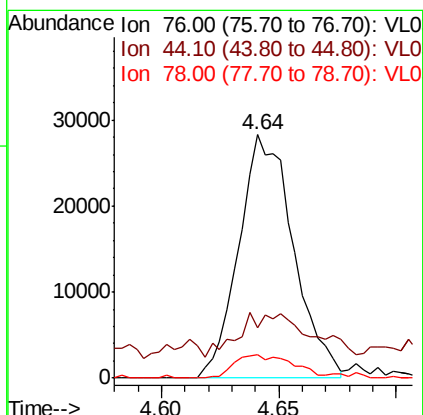
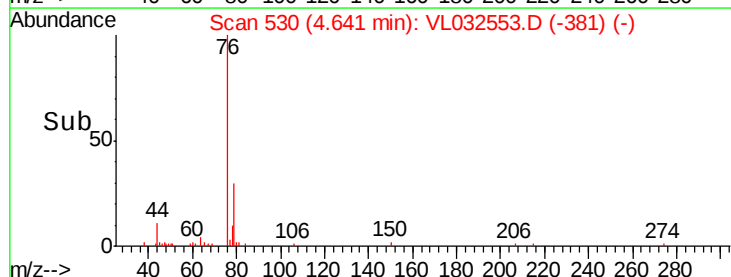
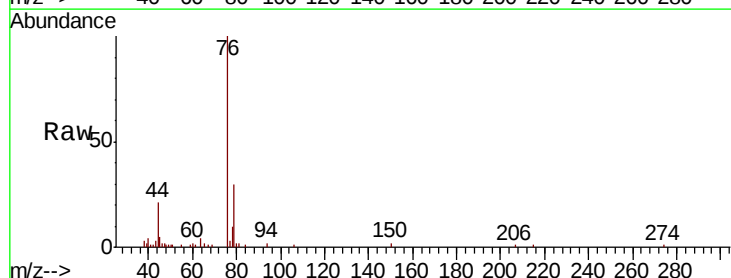
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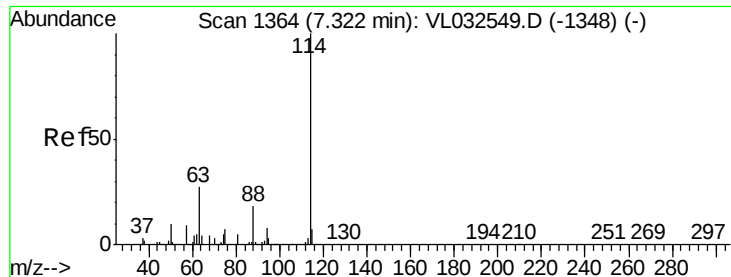
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#27
Carbon Disulfide
Concen: 0.349 ppbv m
RT: 4.64 min Scan# 530
Delta R.T. -0.02 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

Tgt Ion	Ratio	Lower	Upper
76	100		
44	37.4	14.0	21.0#
78	11.3	7.5	11.3





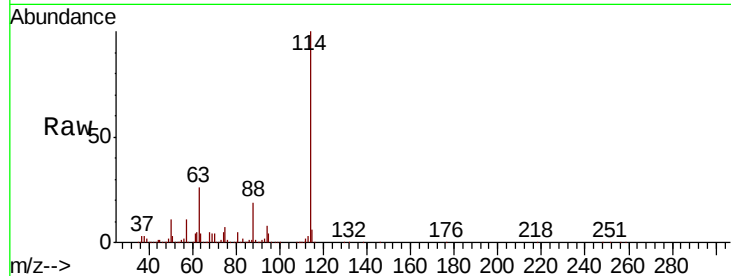
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1362
 Delta R.T. -0.03 min
 Lab File: VL032553.D
 Acq: 27 Sep 2018 17:16

Instrument :
 MSVOA_L
 ClientSampleId :
 239-LODGE

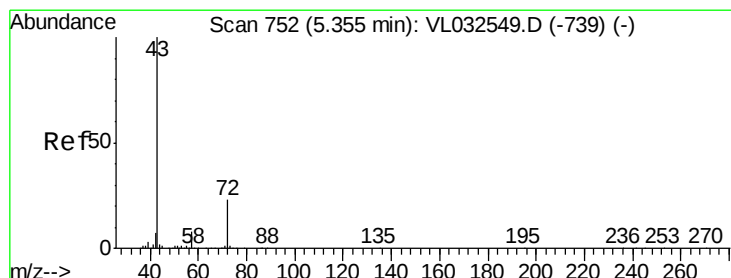
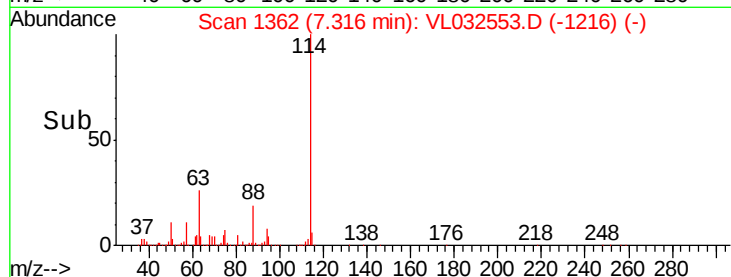
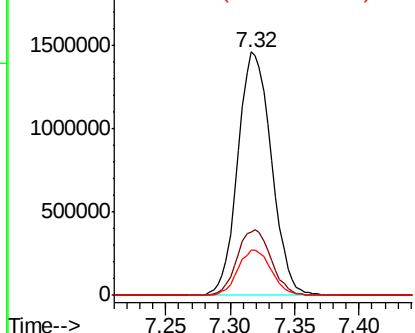
Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.4
88	18.7	15.0	22.4

Manual Integrations
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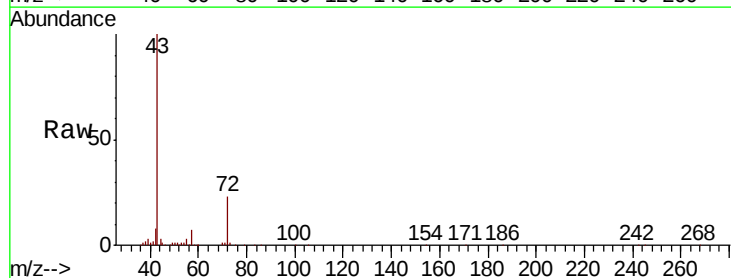


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

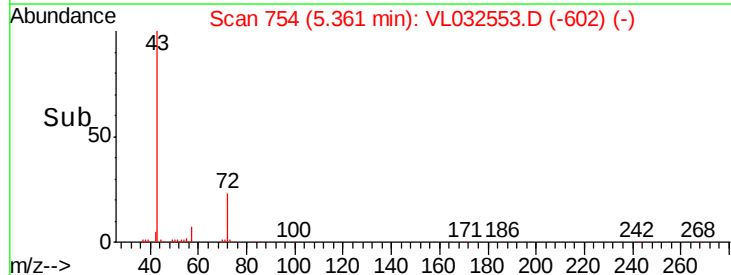
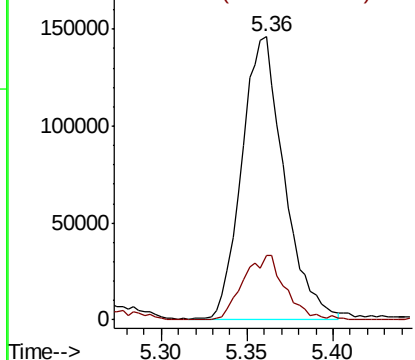


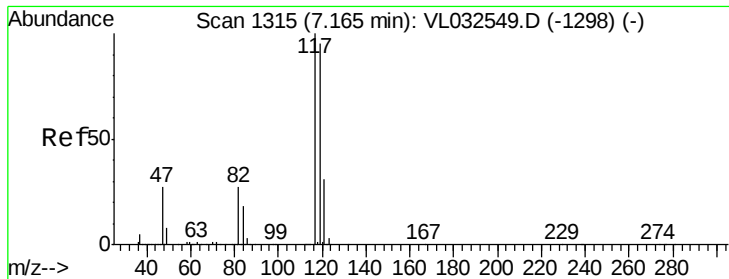
#34
 2-Butanone
 Concen: 1.567 ppbv
 RT: 5.36 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VL032553.D
 Acq: 27 Sep 2018 17:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	17.8	26.6



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





#35

Carbon Tetrachloride

Concen: 0.069 ppbv m

RT: 7.16 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL032553.D

Acq: 27 Sep 2018 17:16

Instrument :

MSVOA_L

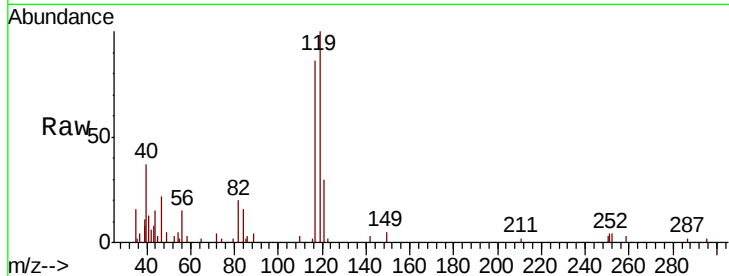
ClientSampleId :

239-LODGE

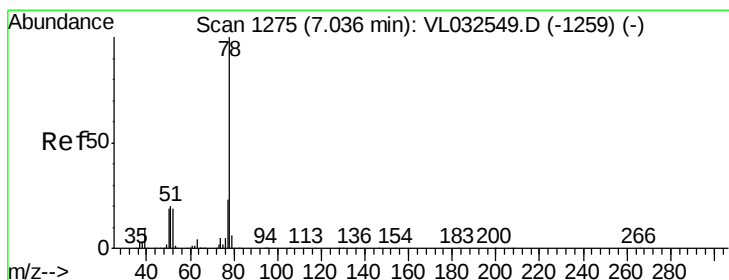
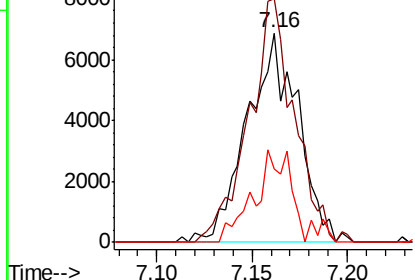
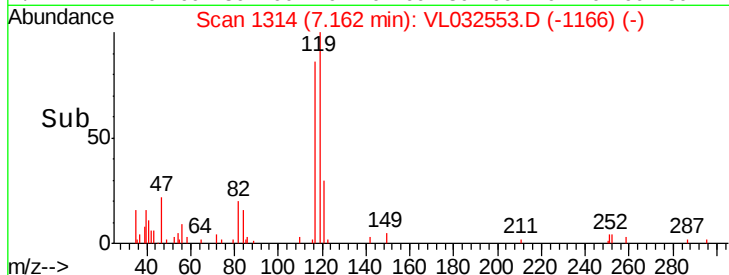
Tgt Ion:	117	Resp:	12646
Ion	Ratio	Lower	Upper
117	100		
119	116.3	76.6	115.0#
121	35.3	24.6	36.8

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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: 0.120 ppbv

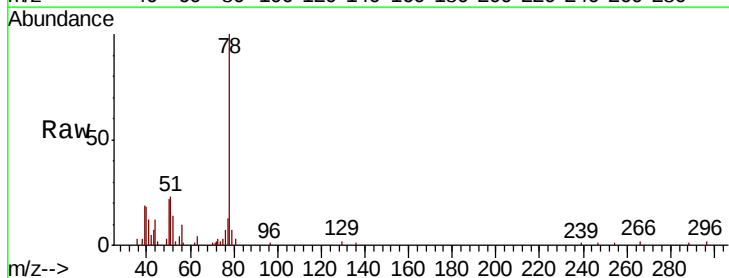
RT: 7.03 min Scan# 1274

Delta R.T. -0.02 min

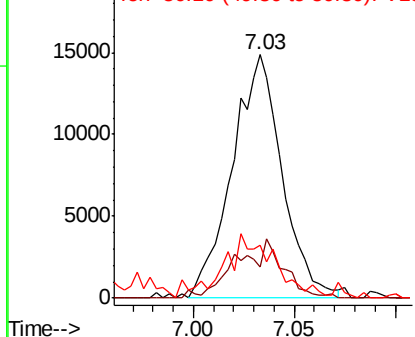
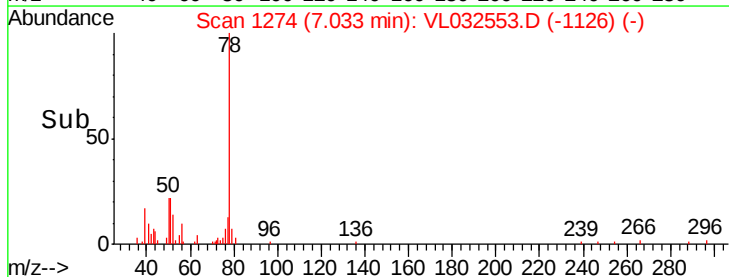
Lab File: VL032553.D

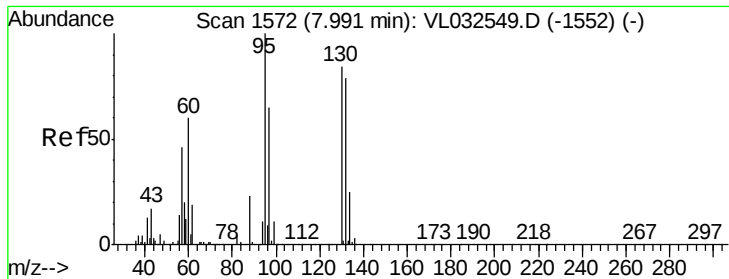
Acq: 27 Sep 2018 17:16

Tgt Ion:	78	Resp:	25766
Ion	Ratio	Lower	Upper
78	100		
77	12.7	18.4	27.6#
50	18.3	14.4	21.6



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





#38

Trichloroethene

Concen: 0.047 ppbv m

RT: 7.99 min Scan# 1572

Delta R.T. -0.02 min

Lab File: VL032553.D

Acq: 27 Sep 2018 17:16

Instrument :

MSVOA_L

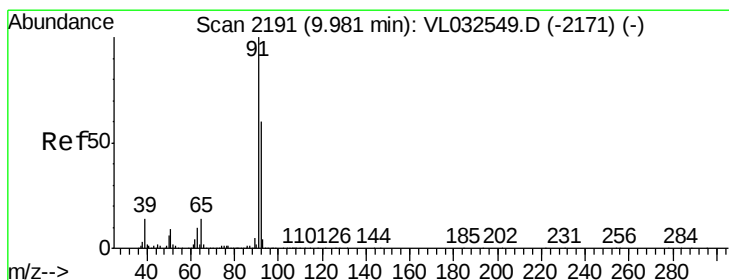
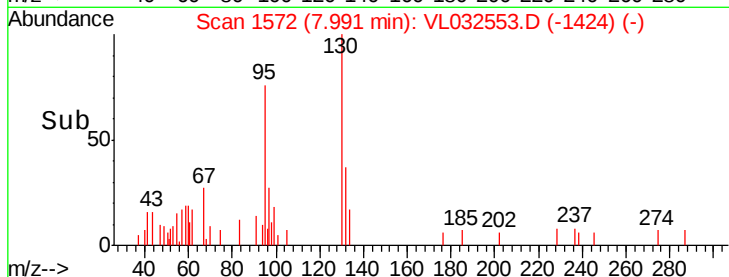
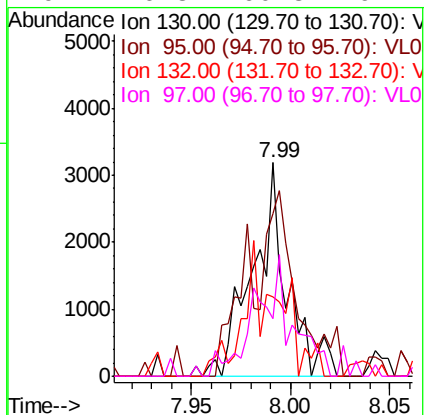
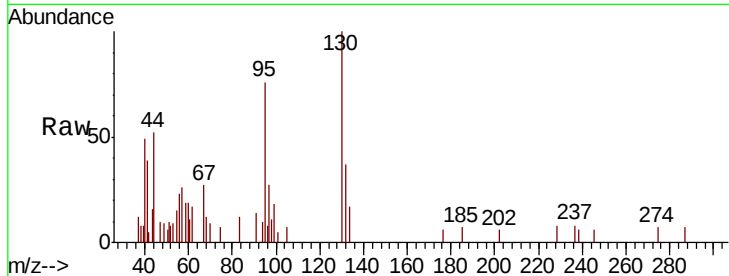
ClientSampleId :

239-LODGE

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	3815		
95	76.0		94.2	141.4#
132	37.3		76.2	114.4#
97	26.8		60.8	91.2#

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#53

Toluene

Concen: 0.128 ppbv m

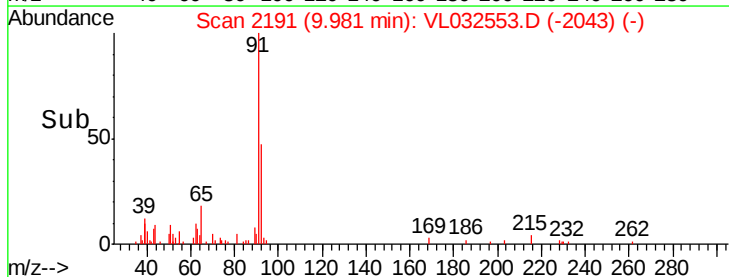
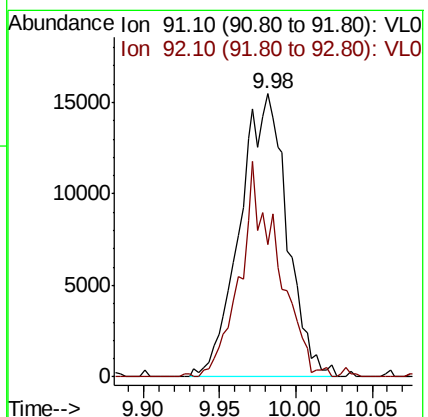
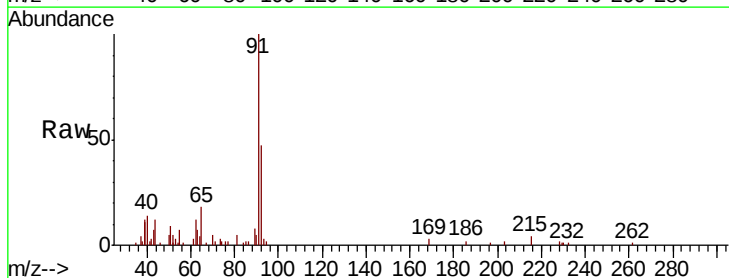
RT: 9.98 min Scan# 2191

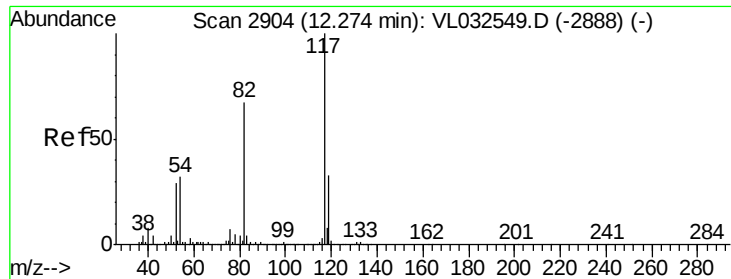
Delta R.T. -0.02 min

Lab File: VL032553.D

Acq: 27 Sep 2018 17:16

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	33459		
92	61.1		48.1	72.1





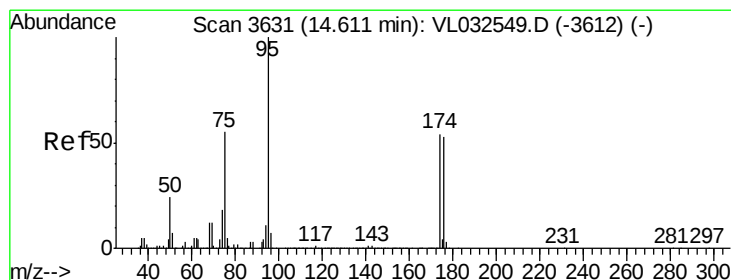
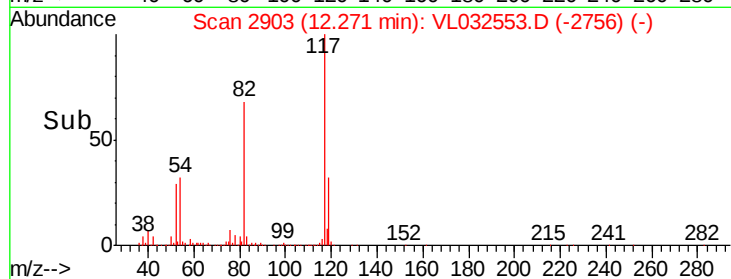
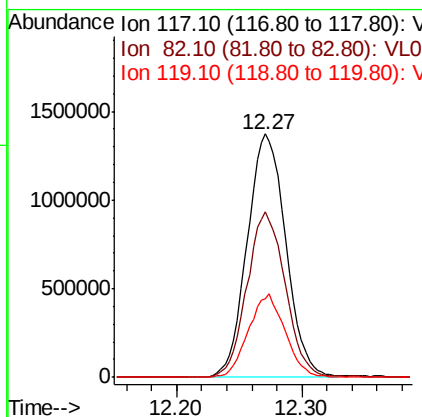
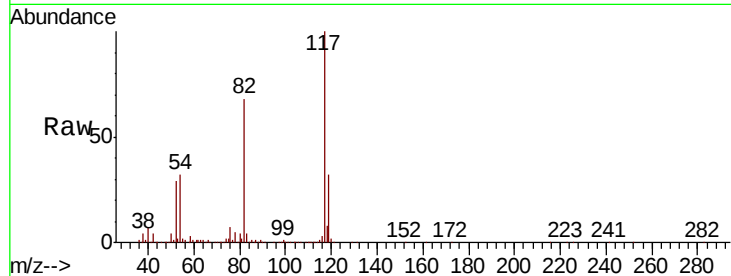
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.03 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

Instrument :
MSVOA_L
ClientSampleId :
239-LODGE

Tgt Ion: 117 Resp: 2941413
Ion Ratio Lower Upper
117 100
82 67.8 53.0 79.6
119 32.9 45.9 68.9#

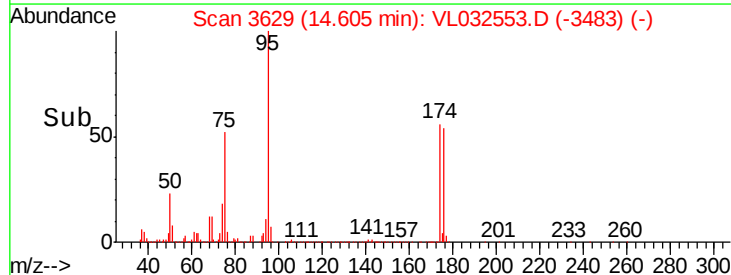
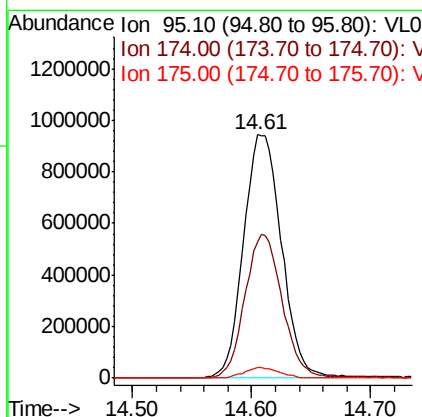
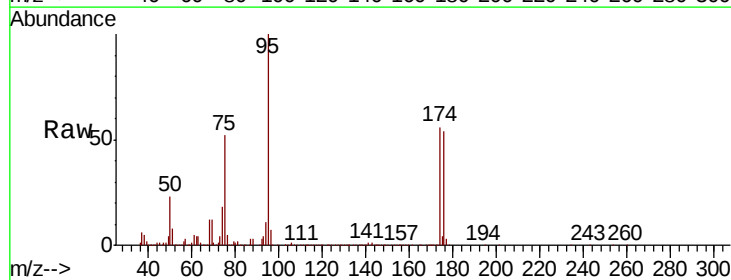
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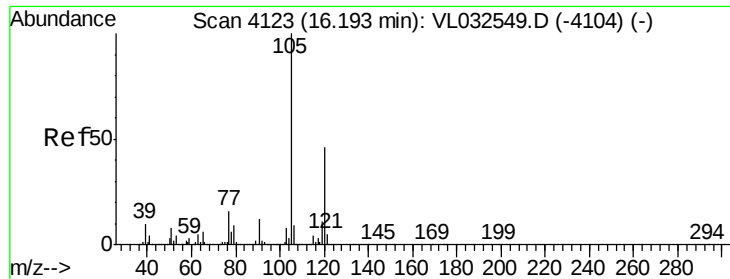
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.387 ppbv
RT: 14.61 min Scan# 3629
Delta R.T. -0.03 min
Lab File: VL032553.D
Acq: 27 Sep 2018 17:16

Tgt Ion: 95 Resp: 2082123
Ion Ratio Lower Upper
95 100
174 59.0 46.3 69.5
175 4.2 3.4 5.0





#73

1,3,5-Trimethylbenzene

Concen: 0.158 ppbv m

RT: 16.20 min Scan# 4124

Delta R.T. -0.02 min

Lab File: VL032553.D

Acq: 27 Sep 2018 17:16

Instrument :

MSVOA_L

ClientSampleId :

239-LODGE

Tgt Ion:105 Resp: 51547

Ion Ratio Lower Upper

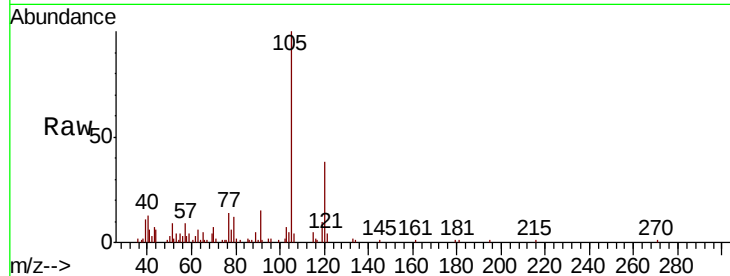
105 100

120 37.8 37.9 56.9#

Manual Integrations
APPROVED

MMDadoda

10/1/2018 11:57:37 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.20

25000

20000

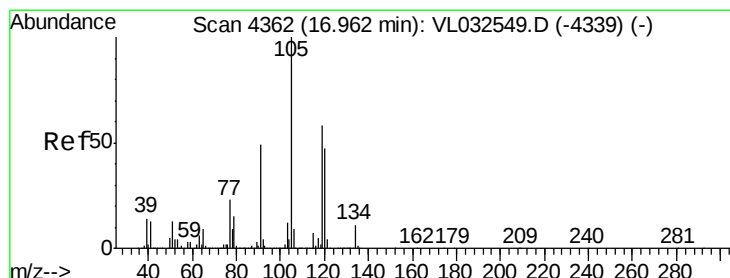
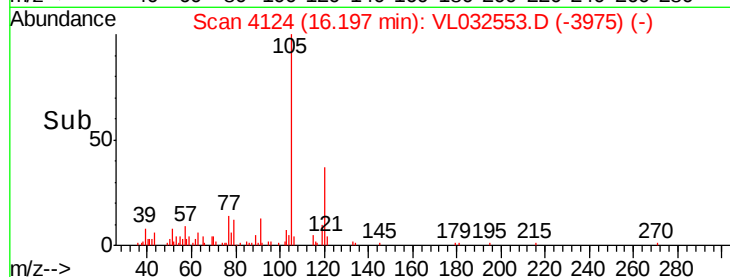
15000

10000

5000

0

Time--> 16.10 16.15 16.20 16.25



#74

1,2,4-Trimethylbenzene

Concen: 0.418 ppbv

RT: 16.96 min Scan# 4360

Delta R.T. -0.03 min

Lab File: VL032553.D

Acq: 27 Sep 2018 17:16

Tgt Ion:105 Resp: 146658

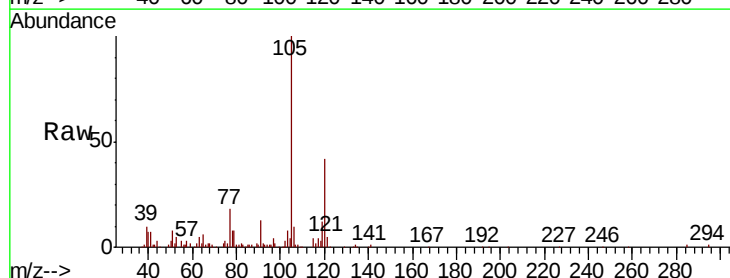
Ion Ratio Lower Upper

105 100

120 41.4 37.8 56.8

91 13.1 41.4 62.0#

77 17.7 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

16.96

100000

80000

60000

40000

20000

0

Time--> 16.90 16.95 17.00

