

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033544.D
 Acq On : 4 Apr 2019 22:17
 Operator : SY/AP
 Sample : K2096-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:23 AM

Quant Time: Apr 05 03:22:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	947611	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1792251	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2210858	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1751274	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	119757	0.867	ppbv	96
4) Chloromethane	3.17	50	28794	0.499	ppbv	96
9) Propene	3.05	41	442767	9.664	ppbv #	61
10) Heptane	8.24	43	553418	4.519	ppbv	100
11) Trichlorofluoromethane	4.00	101	44065	0.259	ppbv	99
13) Ethanol	3.66	45	1594866	134.524	ppbv	65
15) Acetone	3.90	43	3859861	33.876	ppbv	98
17) tert-Butyl alcohol	4.37	59	68681m	3.278	ppbv	
19) Isopropyl Alcohol	4.04	45	549352	7.623	ppbv #	1
20) Methylene Chloride	4.41	84	323745	6.694	ppbv	93
26) Hexane	5.78	57	403954	4.298	ppbv #	51
30) Cyclohexane	7.24	84	35326m	0.475	ppbv	
34) 2-Butanone	5.33	43	51678	0.480	ppbv	97
35) Carbon Tetrachloride	7.13	117	9557m	0.075	ppbv	
36) Benzene	7.00	78	26478	0.176	ppbv	99
53) Toluene	9.94	91	1526224	8.734	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	21402m	0.073	ppbv	

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

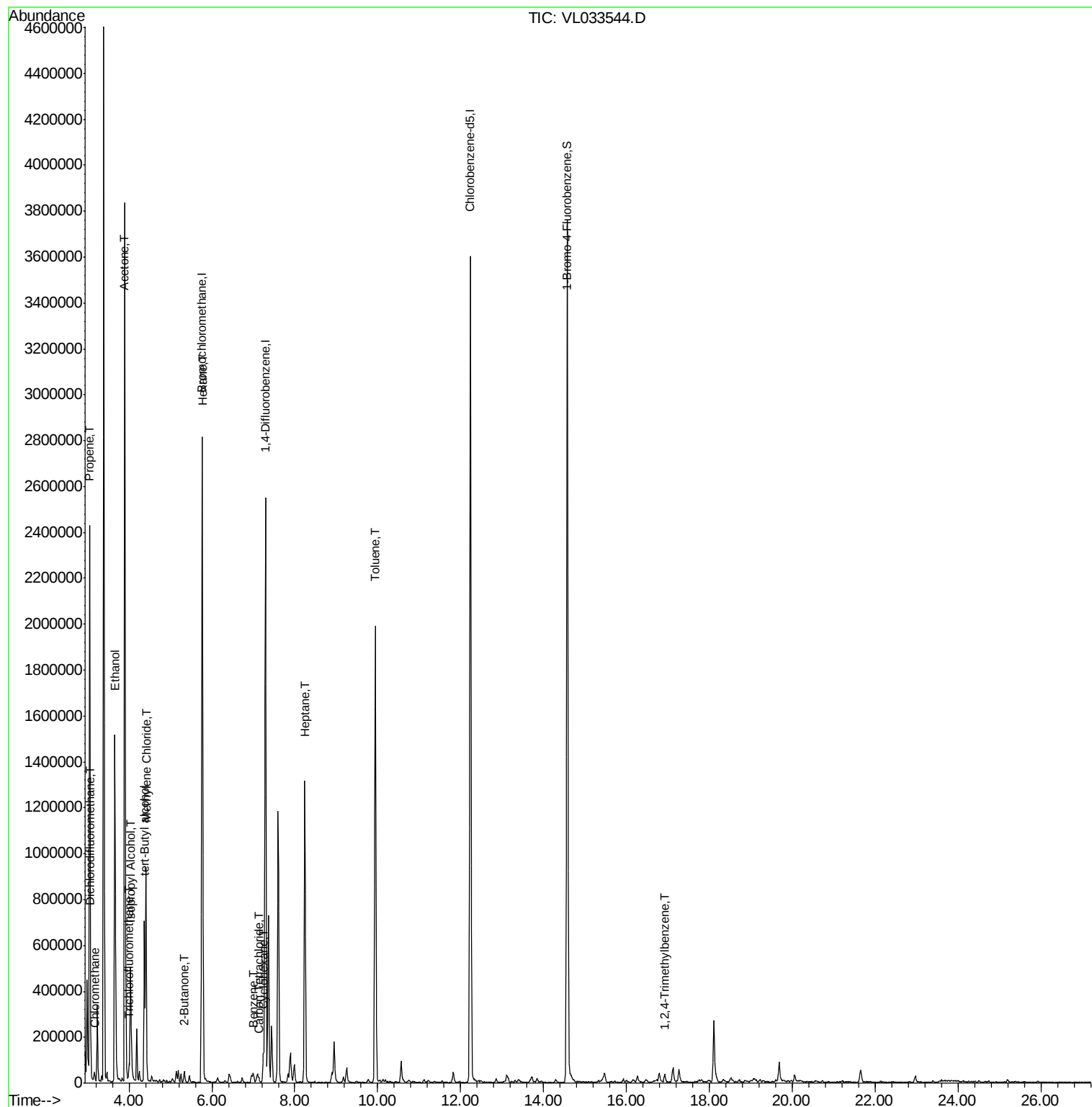
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
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Acq On : 4 Apr 2019 22:17
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033544.D

Acq: 4 Apr 2019 22:17

Instrument :

MSVOA_L

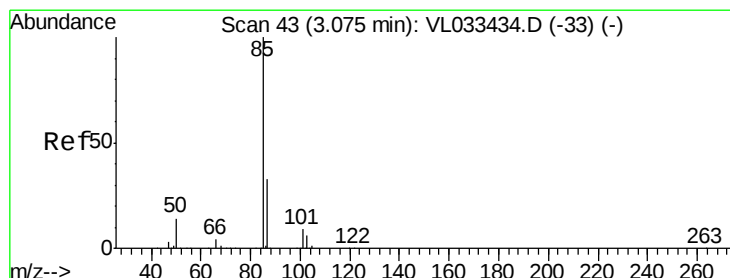
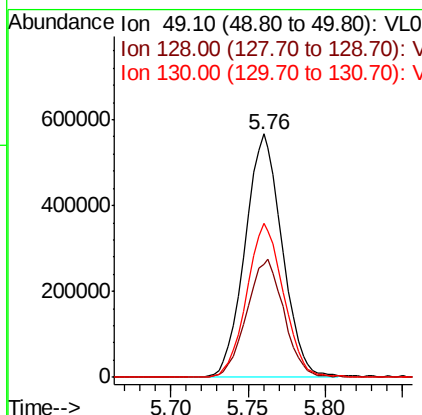
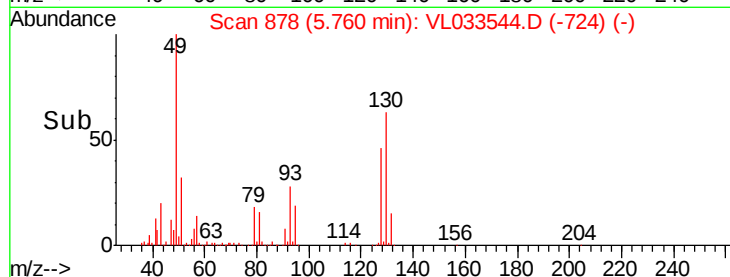
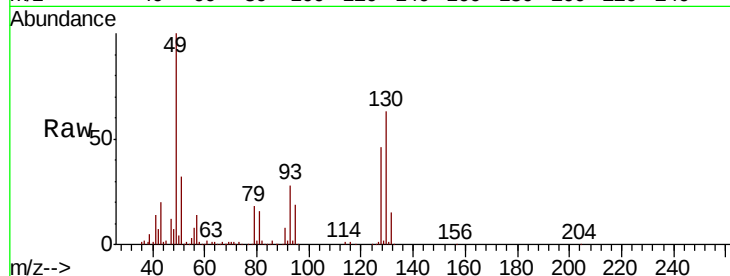
ClientSampled :

A-5

Tot Ion:	49	Resp:	947611
Ion Ratio	Lower	Upper	
49	100		
128	49.0	24.0	72.0
130	63.1	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.867 ppbv

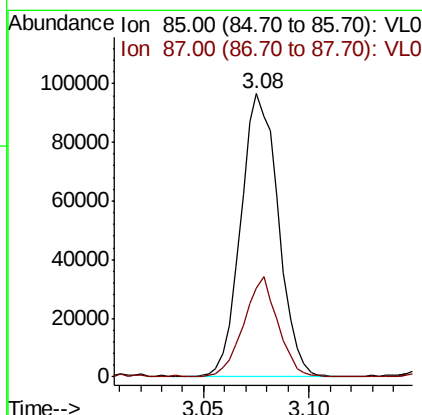
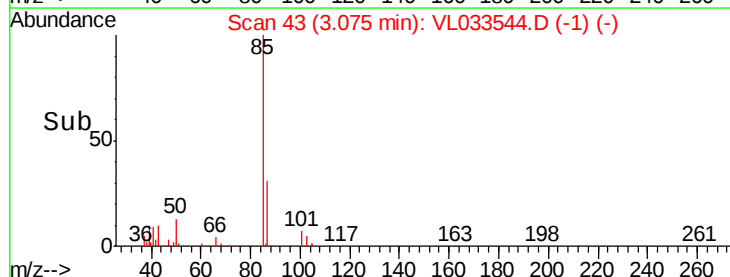
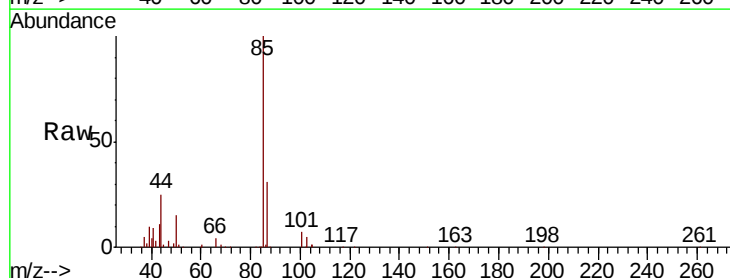
RT: 3.08 min Scan# 43

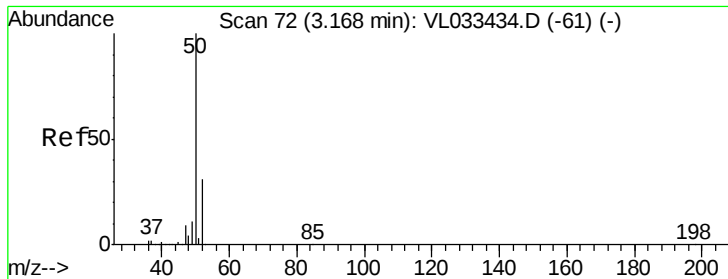
Delta R.T. -0.00 min

Lab File: VL033544.D

Acq: 4 Apr 2019 22:17

Tgt Ion:	85	Resp:	119757
Ion Ratio	Lower	Upper	
85	100		
87	31.2	26.7	40.1





#4

Chloromethane

Concen: 0.499 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033544.D

Acq: 4 Apr 2019 22:17

Instrument :

MSVOA_L

ClientSampleId :

A-5

Tot Ion: 50 Resp: 28794

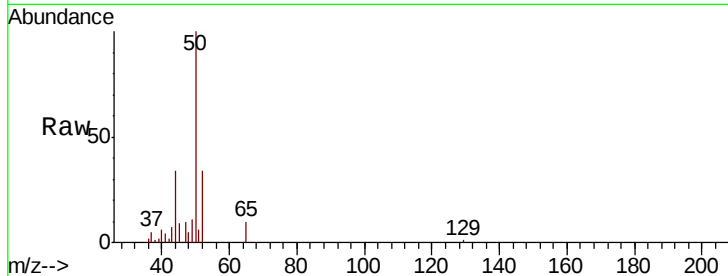
Ion Ratio Lower Upper

50 100

52 33.5 25.0 37.6

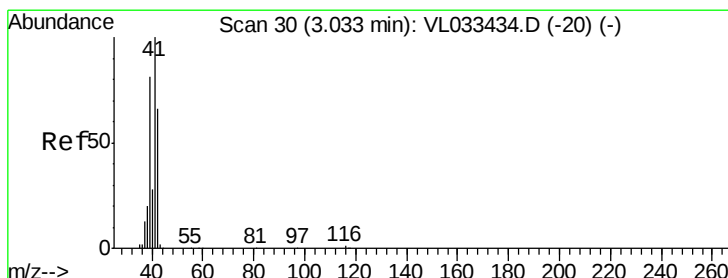
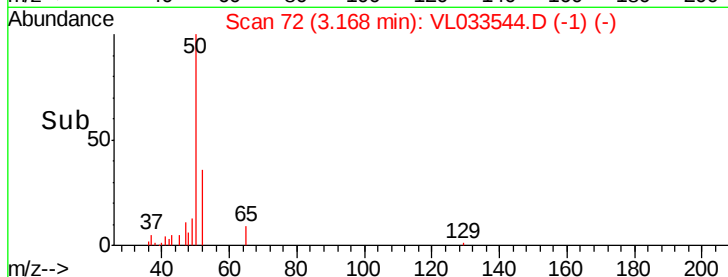
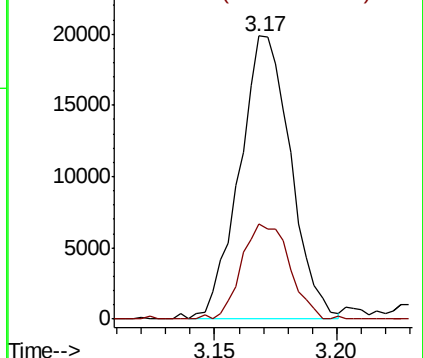
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 9.664 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033544.D

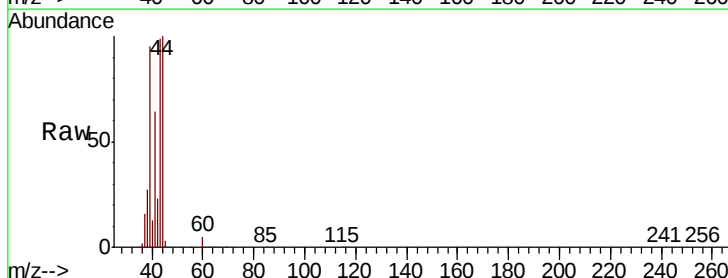
Acq: 4 Apr 2019 22:17

Tgt Ion: 41 Resp: 442767

Ion Ratio Lower Upper

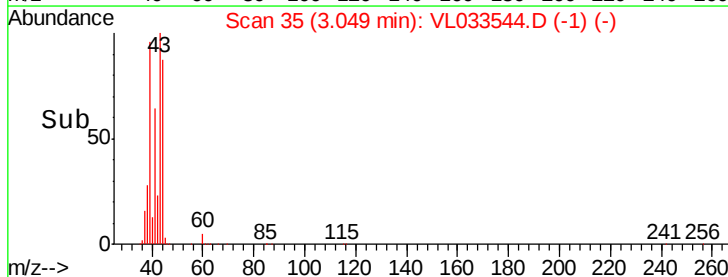
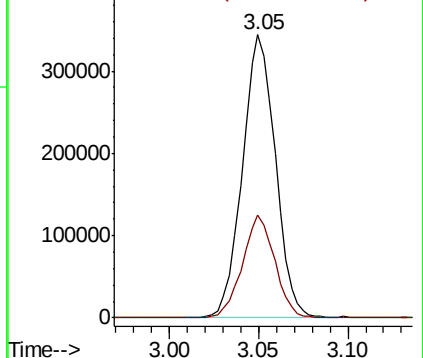
41 100

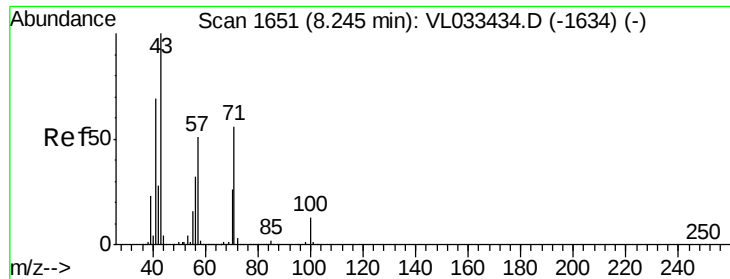
42 35.7 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 4.519 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.01 min

Lab File: VL033544.D

Acq: 4 Apr 2019 22:17

Instrument :

MSVOA_L

ClientSampled :

A-5

Tot Ion: 43 Resp: 553418

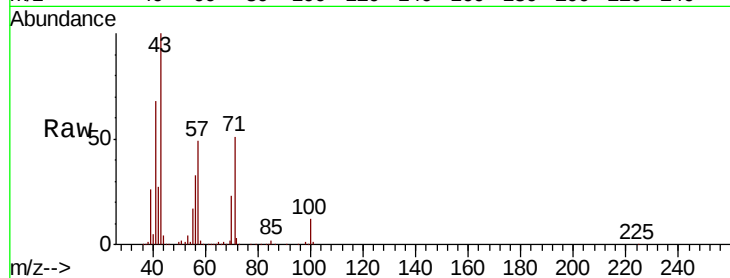
Ion Ratio Lower Upper

43 100

57 51.0 40.6 60.8

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.24

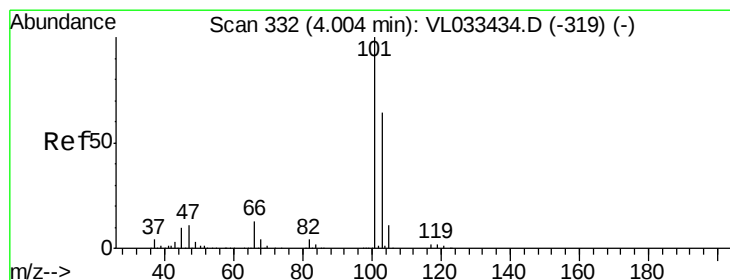
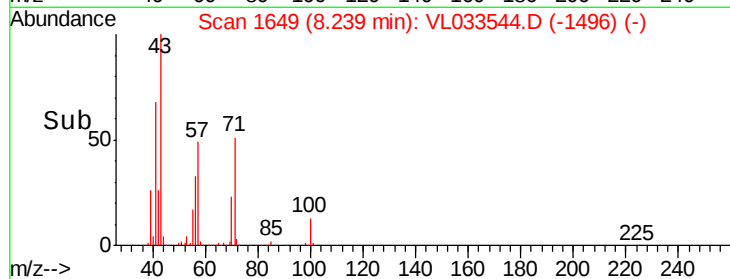
300000

200000

100000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.259 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033544.D

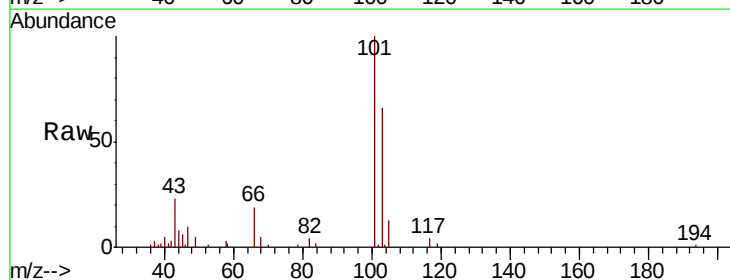
Acq: 4 Apr 2019 22:17

Tgt Ion: 101 Resp: 44065

Ion Ratio Lower Upper

101 100

103 65.0 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.00

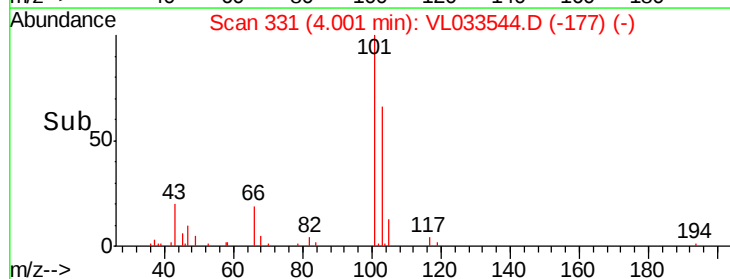
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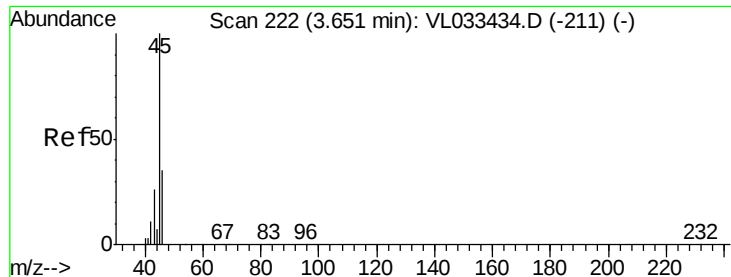
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10000

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Time-->





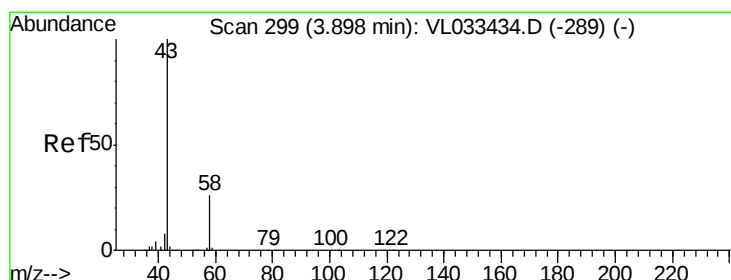
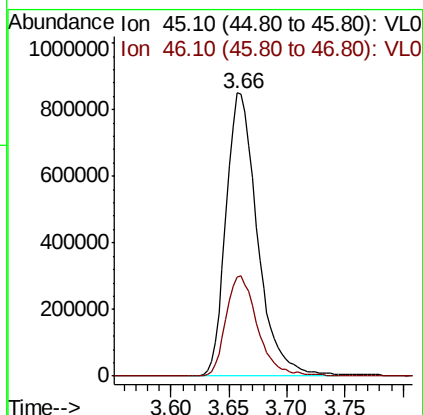
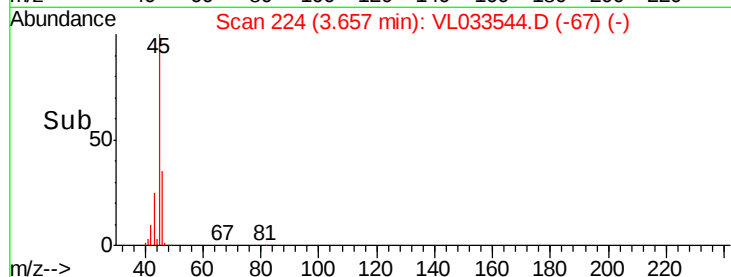
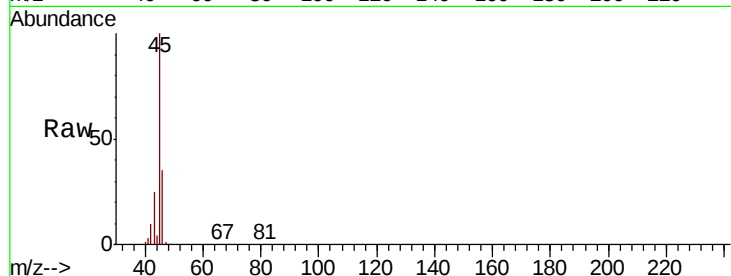
#13
Ethanol
Concen: 134.524 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Instrument :
MSVOA_L
ClientSampled :
A-5

Tot Ion: 45 Resp: 1594866
Ion Ratio Lower Upper
45 100
46 36.0 25.4 101.8

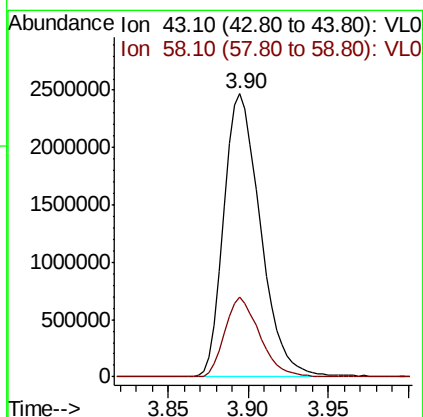
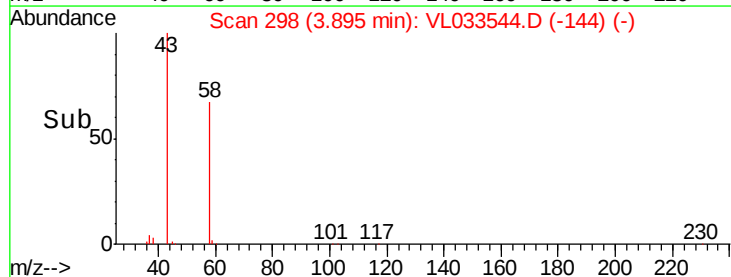
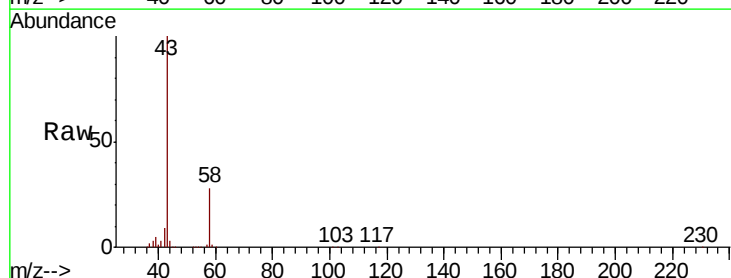
Manual Integrations
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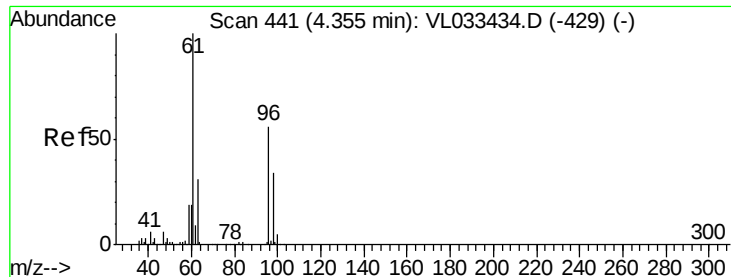
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#15
Acetone
Concen: 33.876 ppbv
RT: 3.90 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Tgt Ion: 43 Resp: 3859861
Ion Ratio Lower Upper
43 100
58 26.8 20.5 30.7





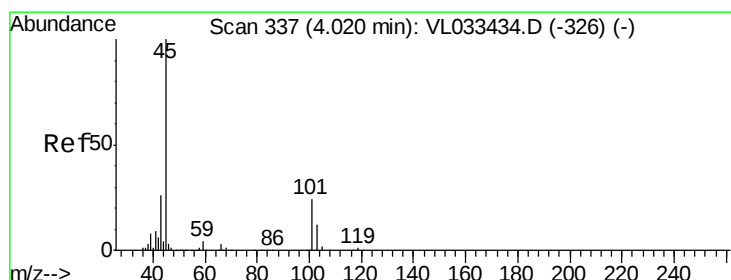
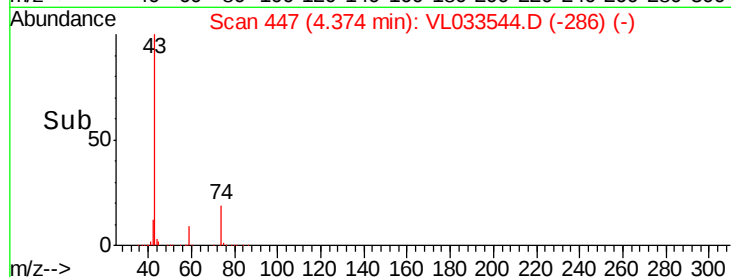
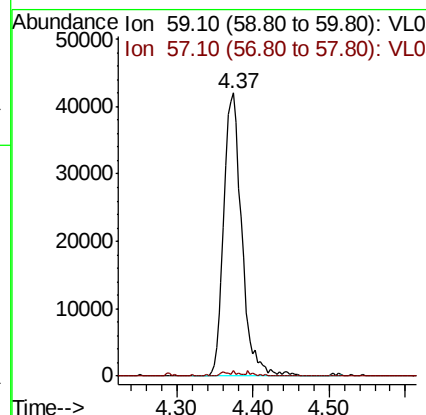
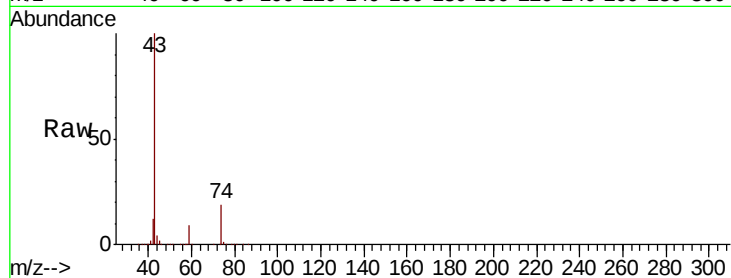
#17
tert-Butyl alcohol
Concen: 3.278 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Instrument :
MSVOA_L
ClientSampleId :
A-5

Tot Ion: 59 Resp: 68681
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

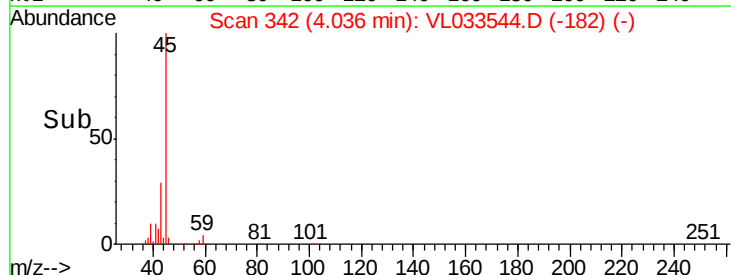
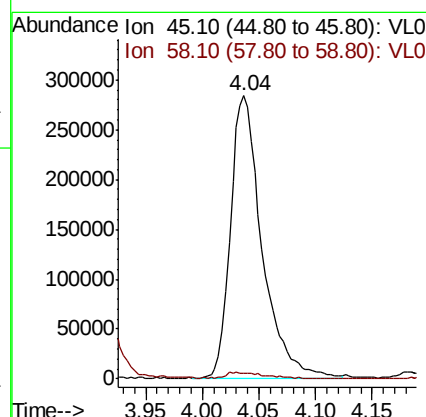
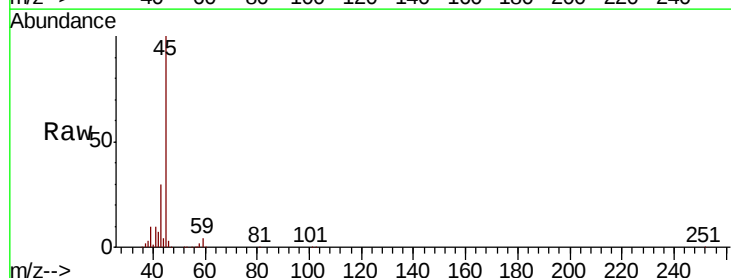
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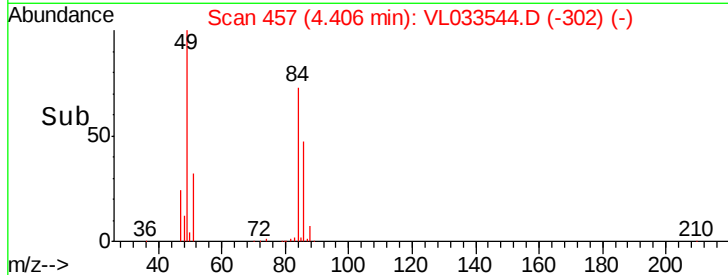
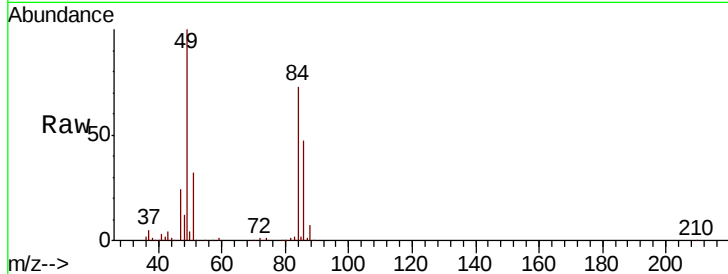
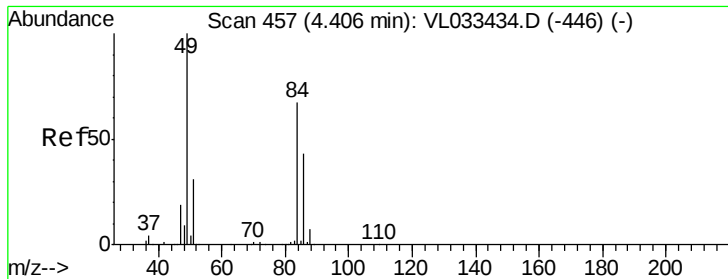
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#19
Isopropyl Alcohol
Concen: 7.623 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.02 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Tgt Ion: 45 Resp: 549352
Ion Ratio Lower Upper
45 100
58 188.8 1.4 2.2#





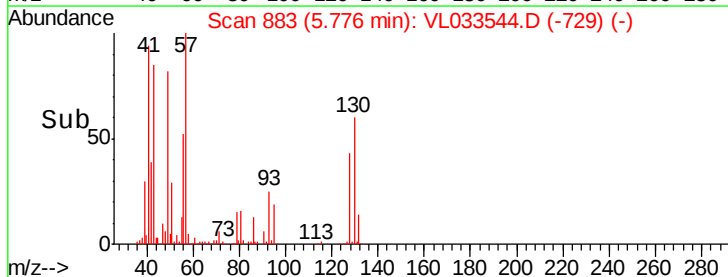
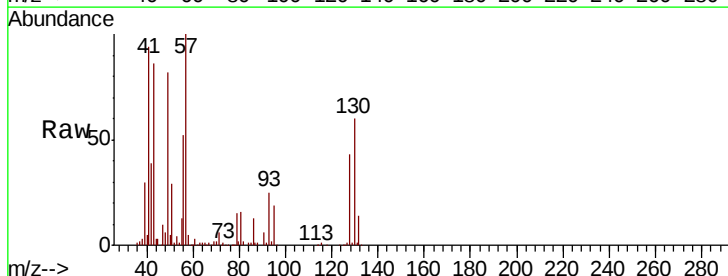
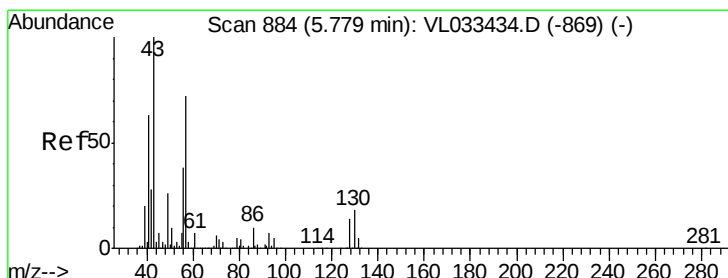
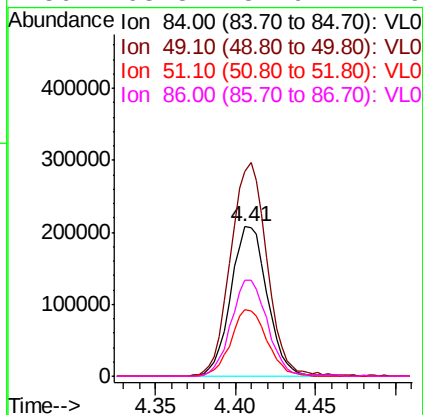
#20
Methvlene Chloride
Concen: 6.694 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	136.9	120.0	180.0		
51	44.5	36.7	55.1		
86	63.8	51.9	77.9		

Instrument :
MSVOA_L
ClientSampled :
A-5

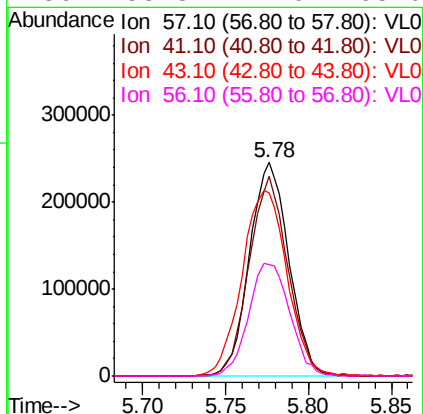
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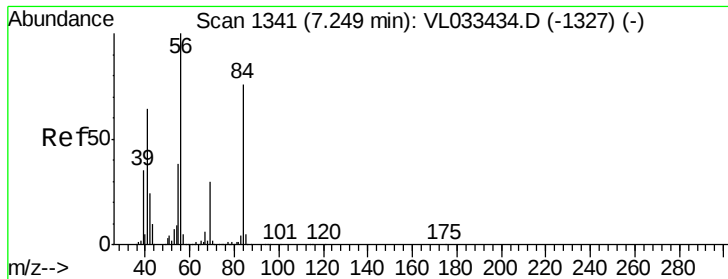
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#26
Hexane
Concen: 4.298 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	92.8	70.7	106.1		
43	101.1	182.6	274.0#		
56	55.3	42.0	63.0		





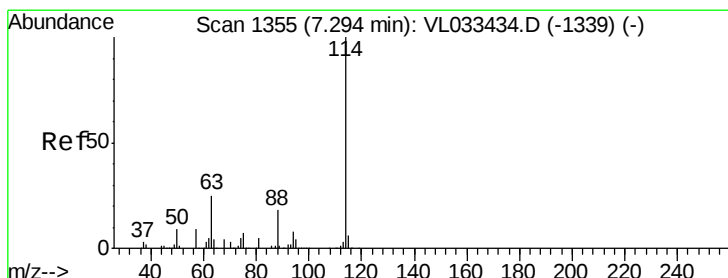
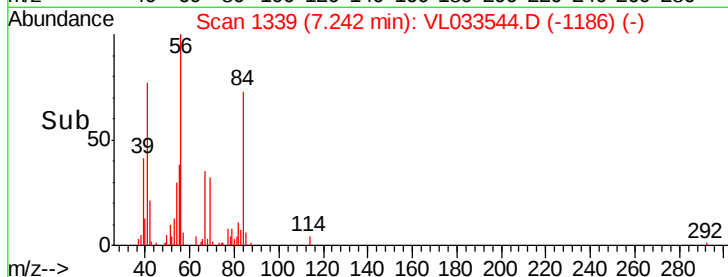
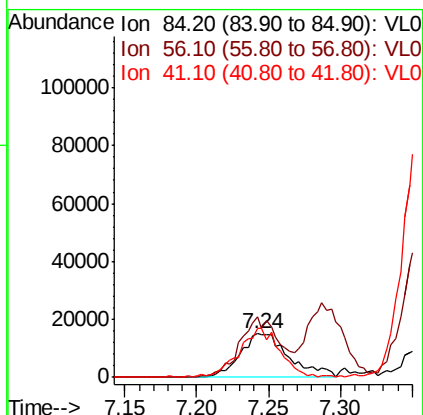
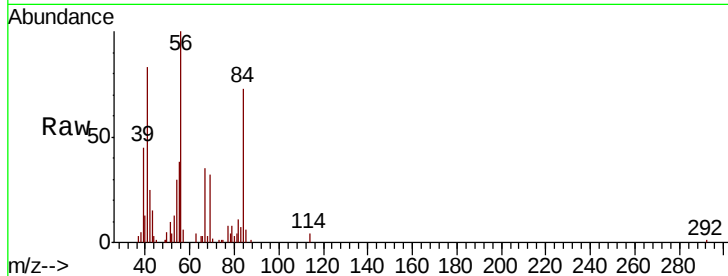
#30
Cvclohexane
Concen: 0.475 ppbv m
RT: 7.24 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Instrument :
MSVOA_L
ClientSampled :
A-5

Tot Ion	Ratio	Lower	Upper
84	100		
56	110.6	109.7	164.5
41	96.2	68.2	102.2

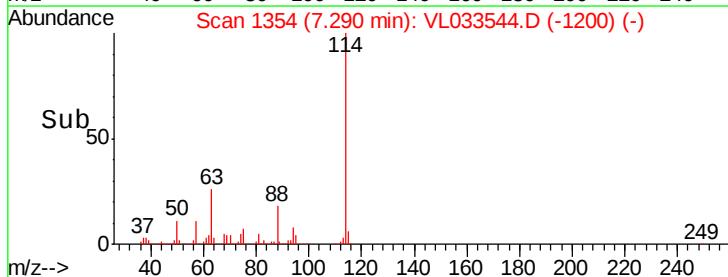
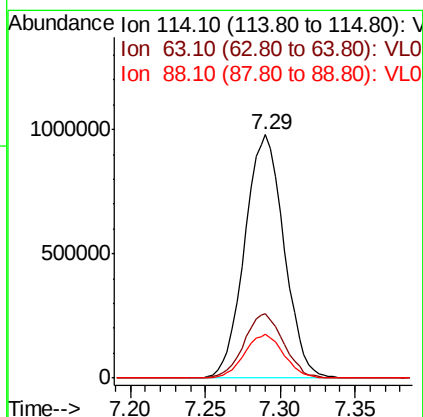
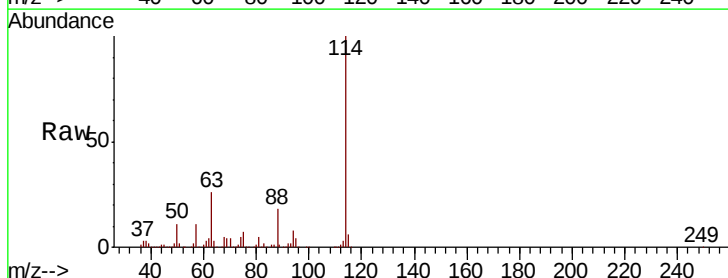
Manual Integrations
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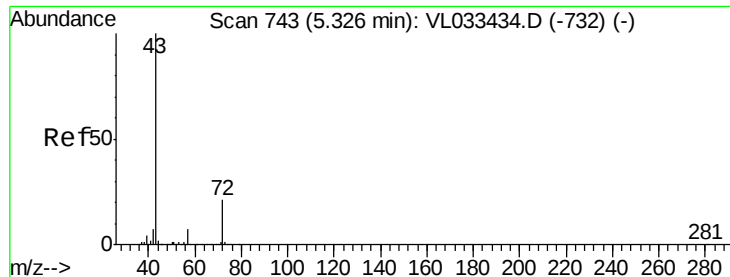
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.5	32.3
88	18.0	14.5	21.7





#34

2-Butanone

Concen: 0.480 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033544.D

Acq: 4 Apr 2019 22:17

Instrument :

MSVOA_L

ClientSampleId :

A-5

Tot Ion: 43 Resp: 51678

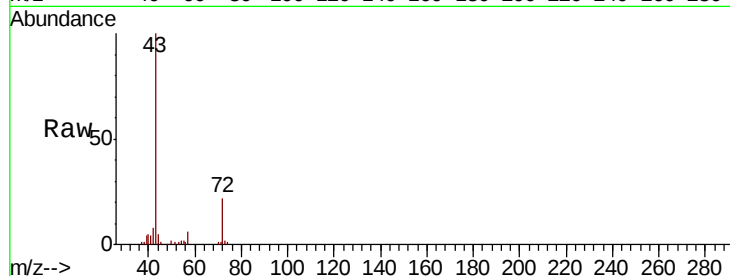
Ion Ratio Lower Upper

43 100

72 23.3 17.4 26.2

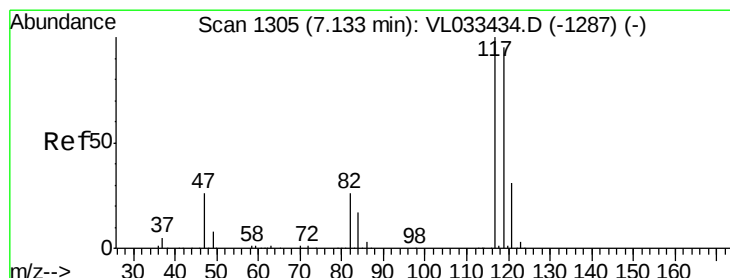
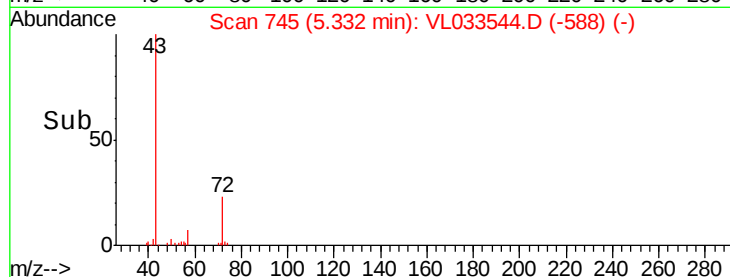
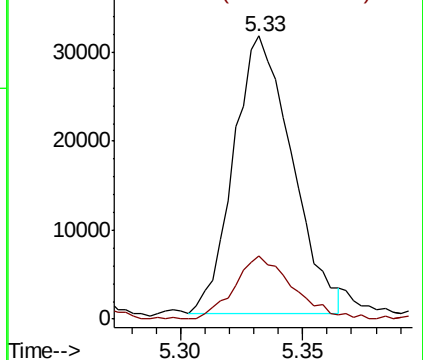
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033544.D

Acq: 4 Apr 2019 22:17

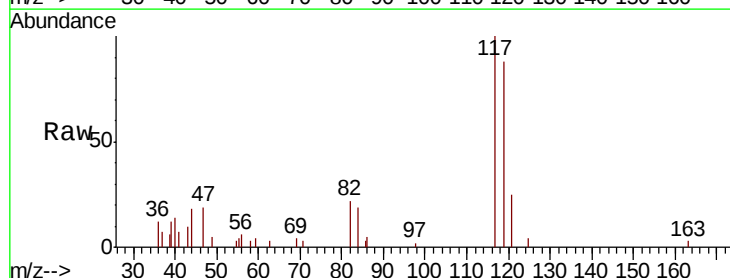
Tgt Ion: 117 Resp: 9557

Ion Ratio Lower Upper

117 100

119 87.9 75.8 113.8

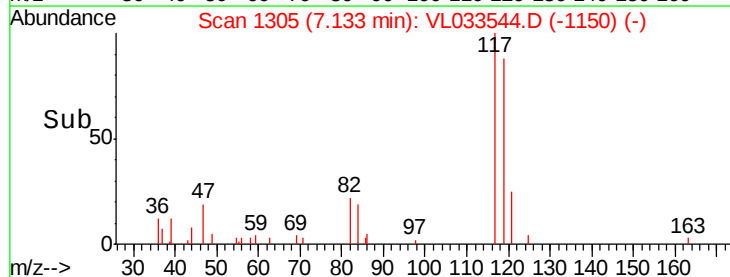
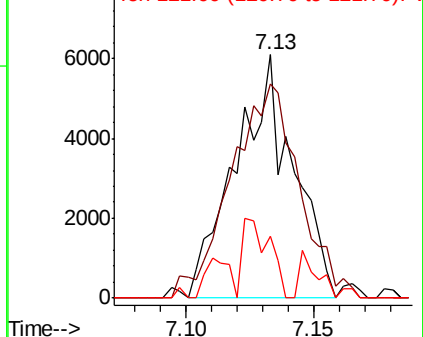
121 25.2 24.7 37.1

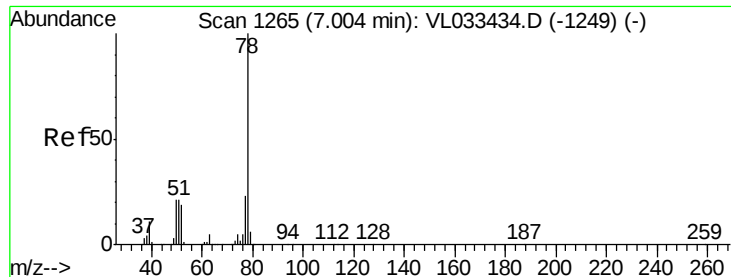


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





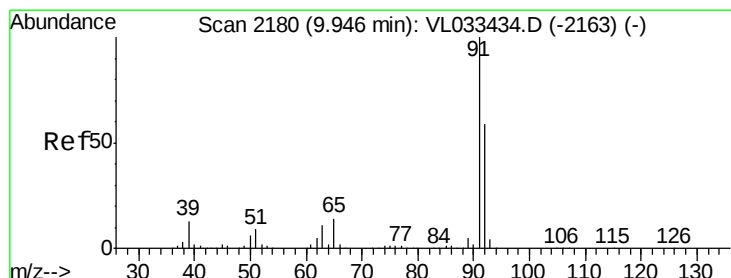
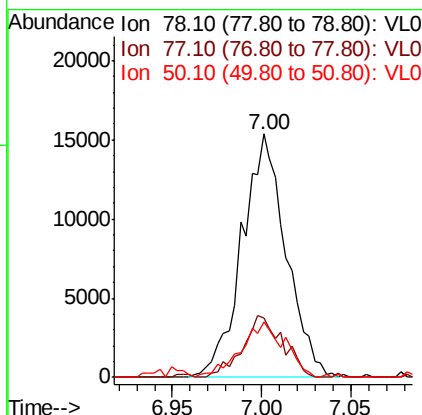
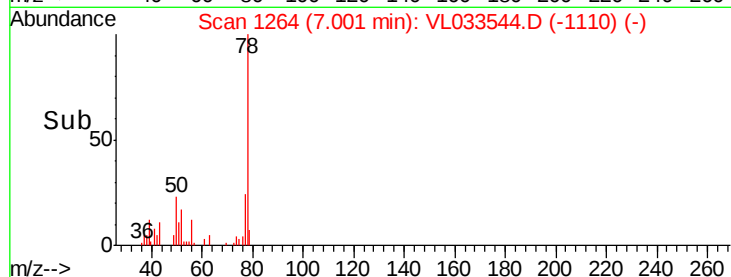
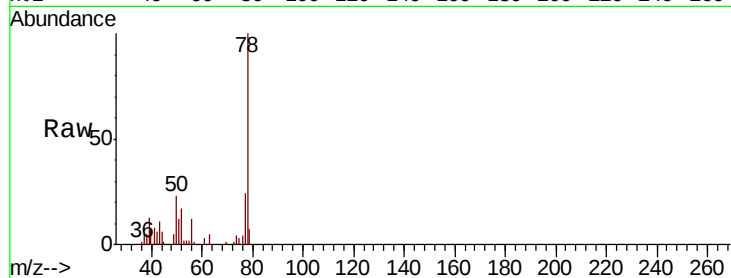
#36
Benzene
Concen: 0.176 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Instrument :
MSVOA_L
ClientSampleId :
A-5

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.1	27.1
50	21.8	16.7	25.1

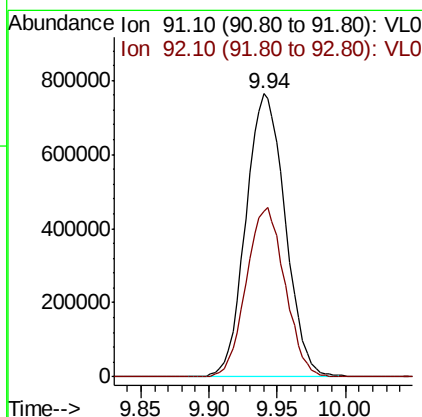
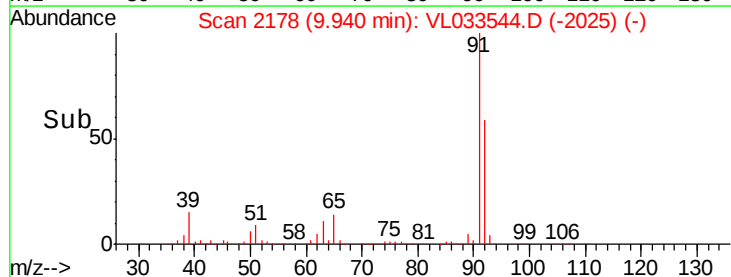
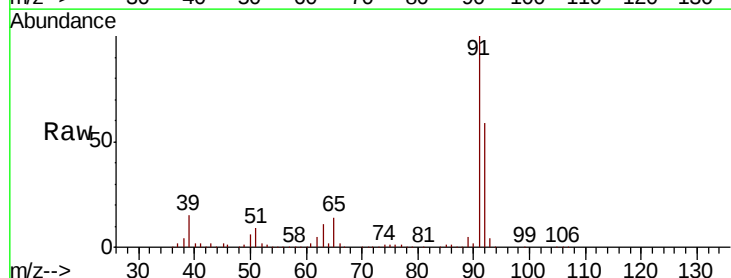
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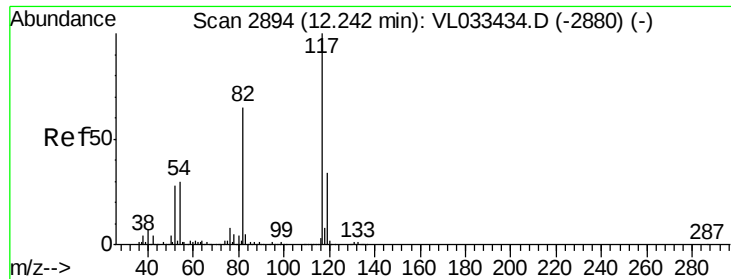
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#53
Toluene
Concen: 8.734 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.1	47.4	71.0





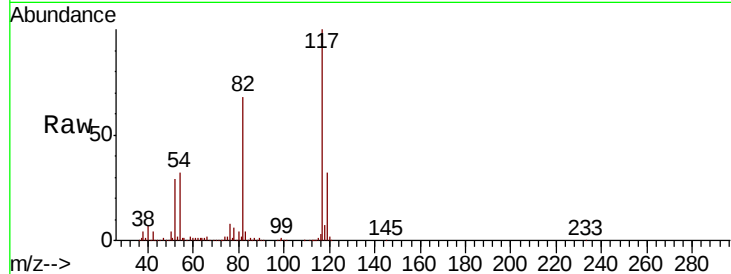
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Instrument :
MSVOA_L
ClientSampleId :
A-5

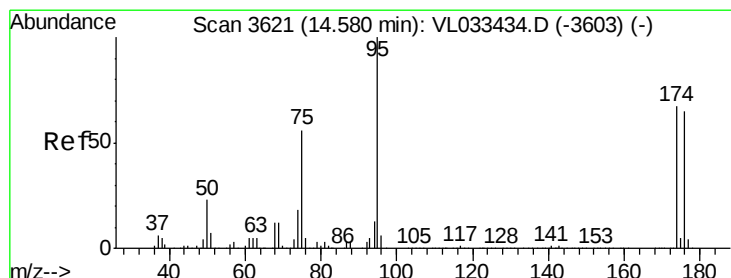
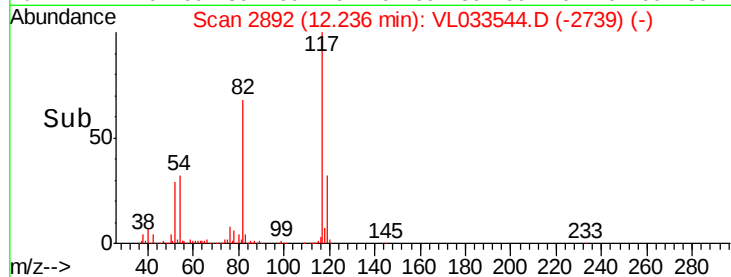
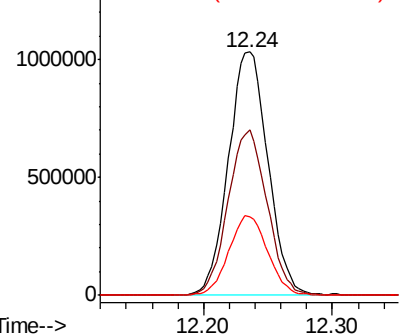
Tot Ion	Ratio	Lower	Upper
117	100		
82	67.1	51.5	77.3
119	32.4	25.5	38.3

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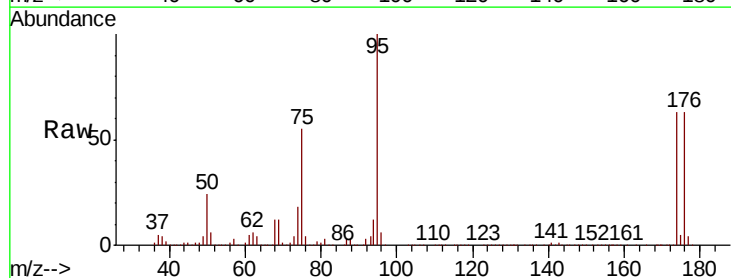


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

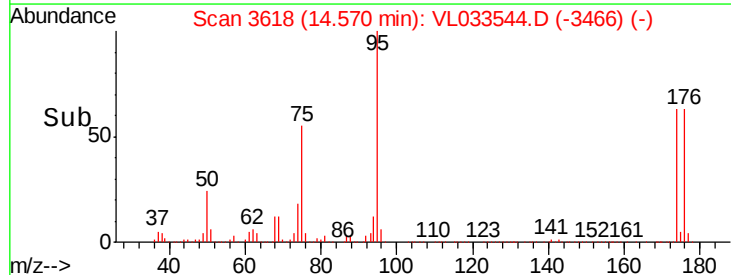
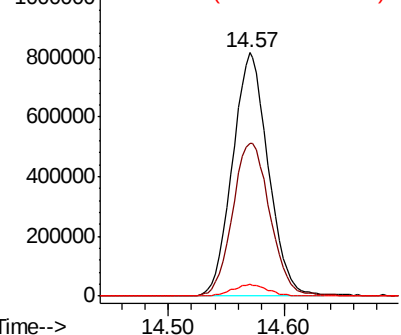


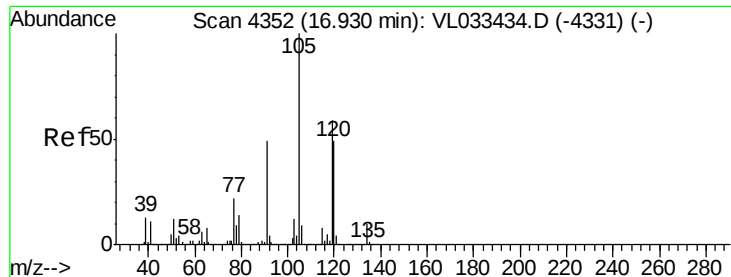
#68
1-Bromo-4-Fluorobenzene
Concen: 10.104 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033544.D
Acq: 4 Apr 2019 22:17

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.1	52.9	79.3
175	4.7	3.8	5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.073 ppbv m
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL033544.D
 Acq: 4 Apr 2019 22:17

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5

Tot Ion:	105	Resp:	21402
Ion Ratio		Lower	Upper
105	100		
120	33.8	39.0	58.6#
91	14.9	40.0	60.0#
77	9.6	17.5	26.3#

Manual Integrations
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