

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033634.D
 Acq On : 2 May 2019 19:05
 Operator : SY/AP
 Sample : K2628-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5

Manual Integrations
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MMDadoda
 5/4/2019 7:18:42 AM

Quant Time: May 03 04:30:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 04:30:00 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	875430	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2095016	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2306883	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1709129	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	77413	0.587	ppbv	95
3) Chlorodifluoromethane	3.01	51	35765m	0.342	ppbv	
4) Chloromethane	3.17	50	32033m	0.562	ppbv	
9) Propene	3.05	41	34600	1.154	ppbv #	62
11) Trichlorofluoromethane	4.00	101	44424	0.283	ppbv	93
13) Ethanol	3.65	45	729228	53.664	ppbv	99
15) Acetone	3.90	43	509470	4.780	ppbv	94
19) Isopropyl Alcohol	4.03	45	173418	2.371	ppbv #	93
20) Methylene Chloride	4.41	84	42461	1.022	ppbv	90
26) Hexane	5.78	57	87785	1.031	ppbv #	46
34) 2-Butanone	5.34	43	25835	0.201	ppbv	99
35) Carbon Tetrachloride	7.13	117	10986m	0.066	ppbv	
53) Toluene	9.94	91	612091	2.717	ppbv	99

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

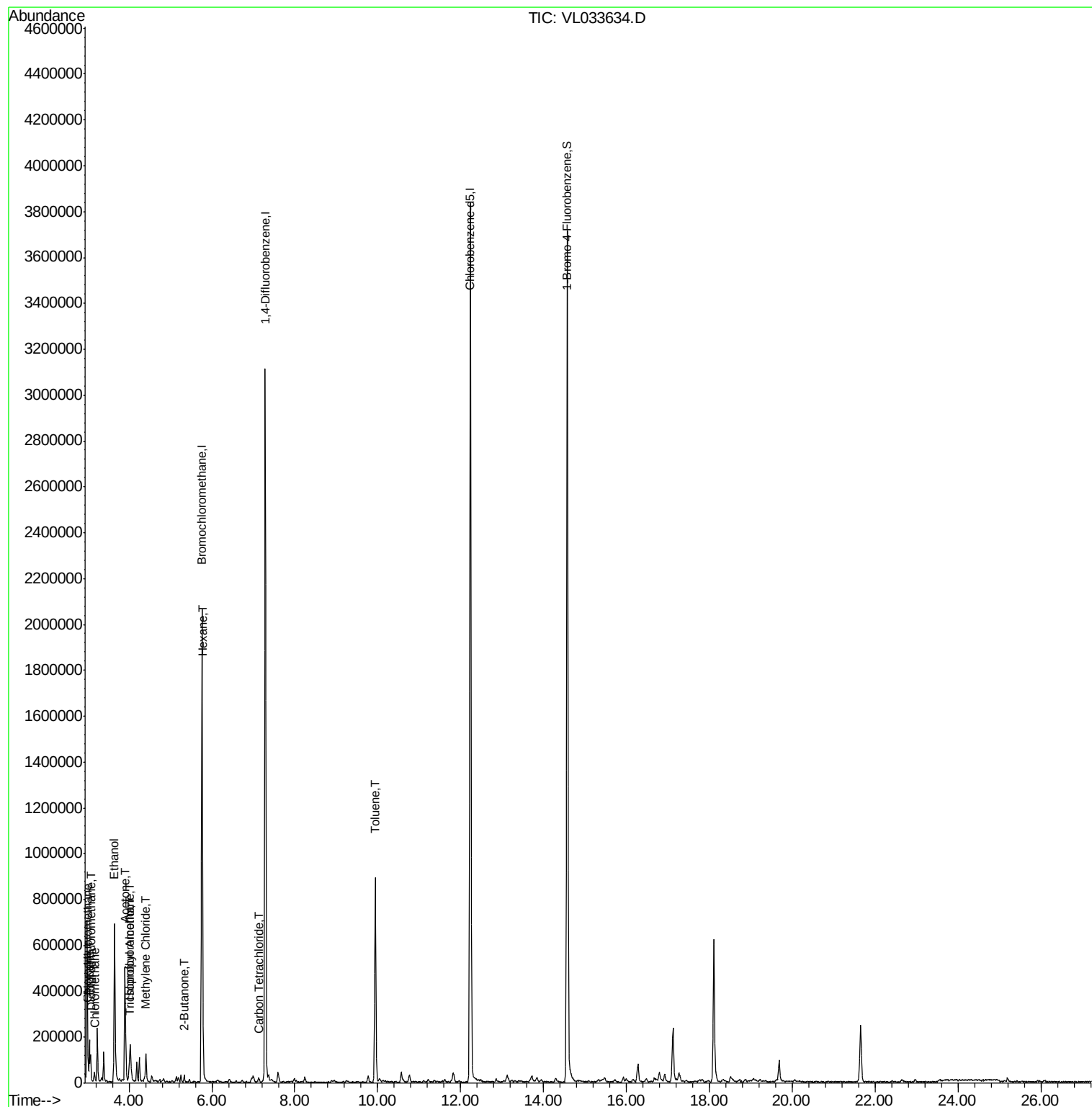
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
Data File : VL033634.D
Acq On : 2 May 2019 19:05
Operator : SY/AP
Sample : K2628-05
Misc : 400ml/MSVOA L
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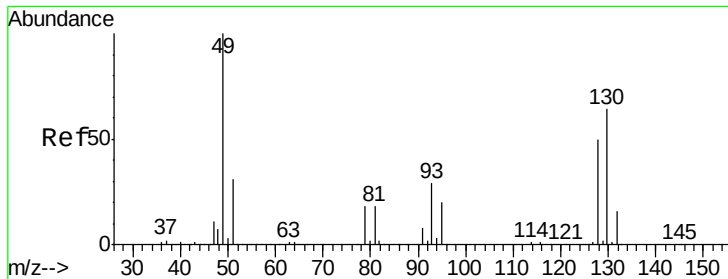
Instrument :
MSVOA_L
ClientSampleId :
A-5

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Quant Time: May 03 04:30:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration





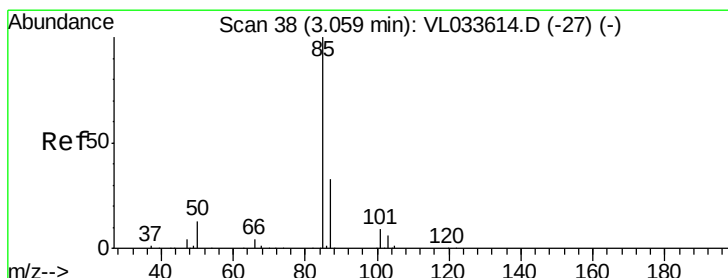
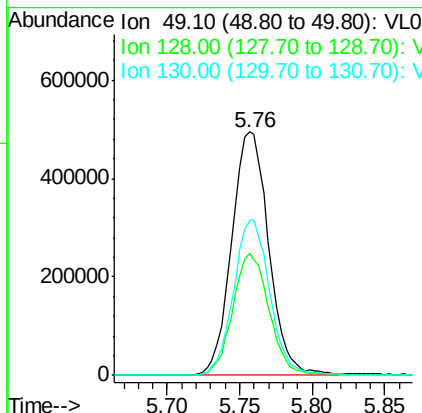
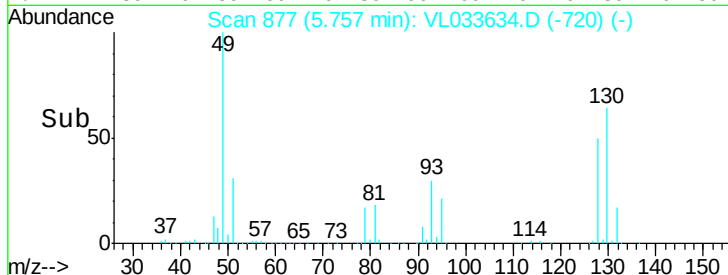
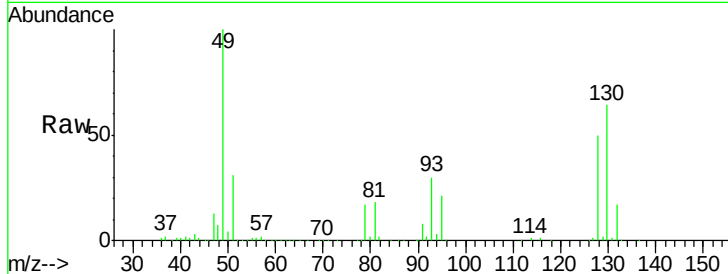
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VL033634.D
 Acq: 2 May 2019 19:05

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5

Tot Ion:	49	Resp:	875430
Ion Ratio	Lower	Upper	
49	100		
128	49.4	25.0	75.0
130	63.0	31.9	95.9

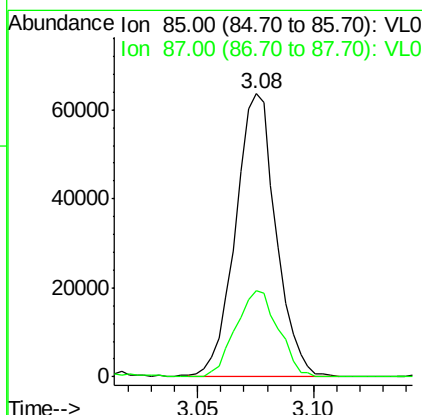
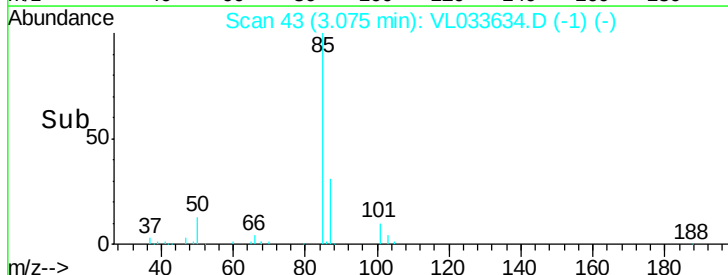
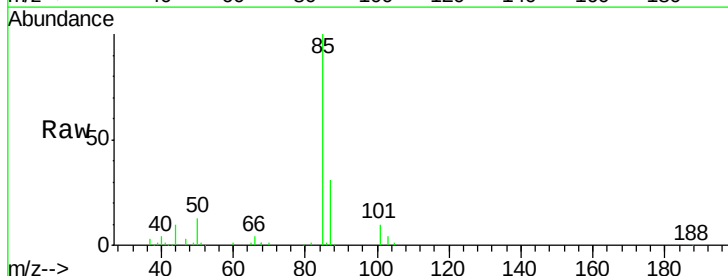
Manual Integrations
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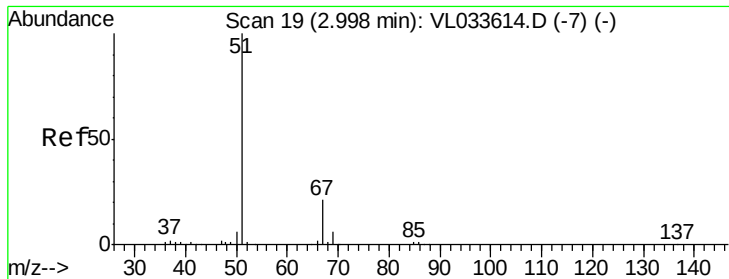
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#2
 Dichlorodifluoromethane
 Concen: 0.587 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.02 min
 Lab File: VL033634.D
 Acq: 2 May 2019 19:05

Tgt Ion:	85	Resp:	77413
Ion Ratio	Lower	Upper	
85	100		
87	30.6	26.8	40.2





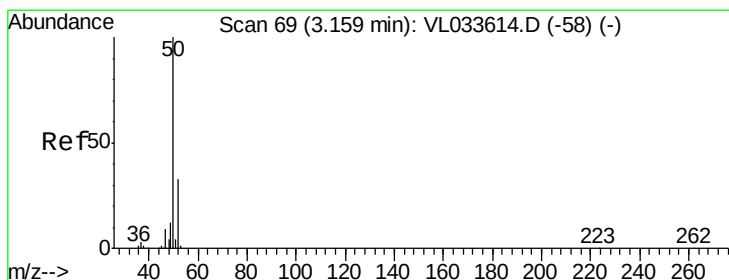
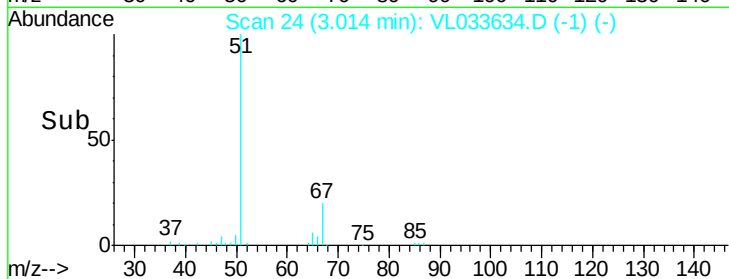
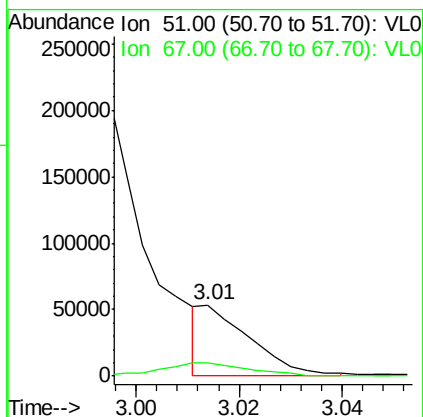
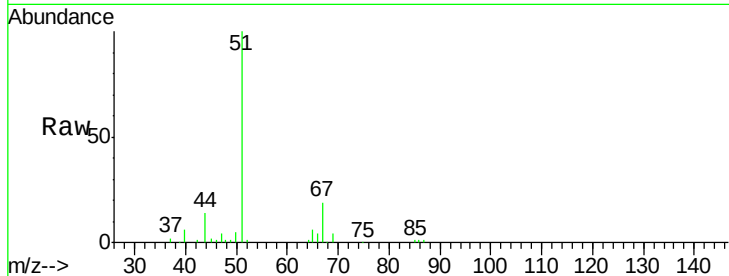
#3
Chlorodifluoromethane
Concen: 0.342 ppbv m
RT: 3.01 min Scan# 24
Delta R.T. 0.02 min
Lab File: VL033634.D
Acq: 2 May 2019 19:05

Instrument :
MSVOA_L
ClientSampleId :
A-5

Tot Ion	51	Resp	35765
Ion Ratio	100	Lower	Upper
51	100		
67	34.6	15.6	23.4#

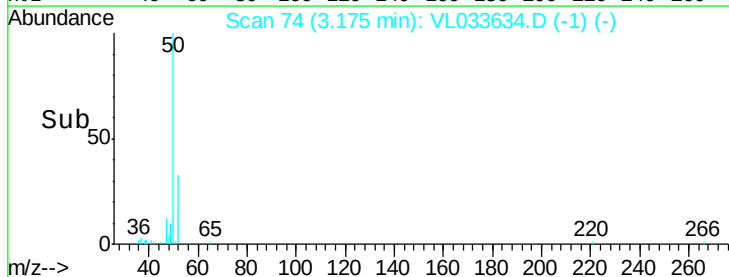
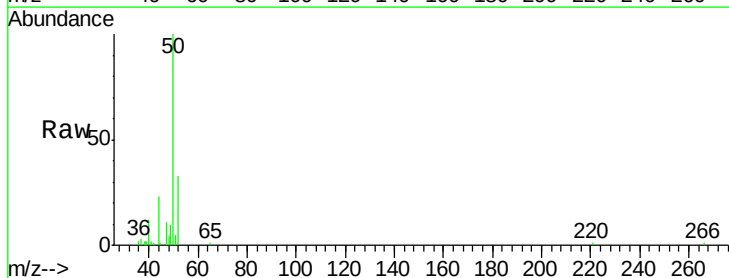
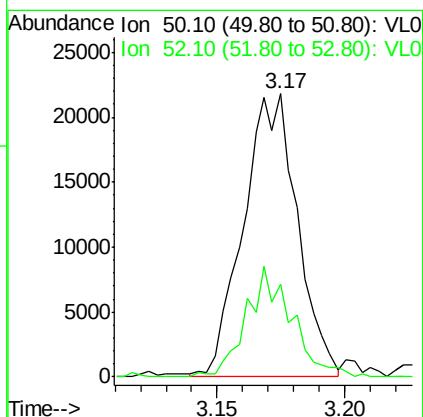
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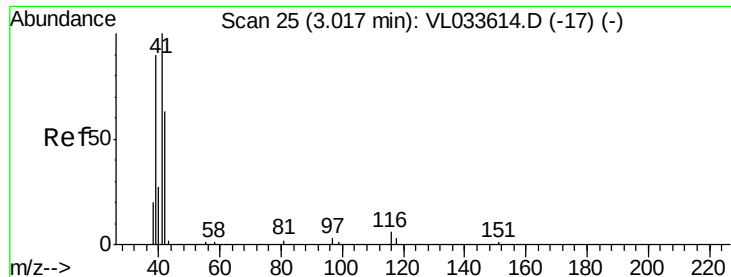
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#4
Chloromethane
Concen: 0.562 ppbv m
RT: 3.17 min Scan# 74
Delta R.T. 0.02 min
Lab File: VL033634.D
Acq: 2 May 2019 19:05

Tgt Ion	50	Resp	32033
Ion Ratio	100	Lower	Upper
50	100		
52	32.5	26.0	39.0





#9

Propene

Concen: 1.154 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.03 min

Lab File: VL033634.D

Acq: 2 May 2019 19:05

Instrument :

MSVOA_L

ClientSampled :

A-5

Tot Ion: 41 Resp: 34600

Ion Ratio Lower Upper

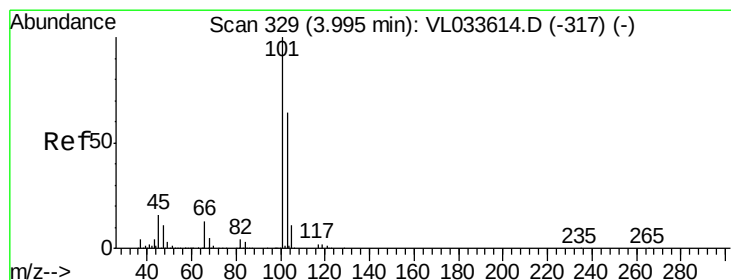
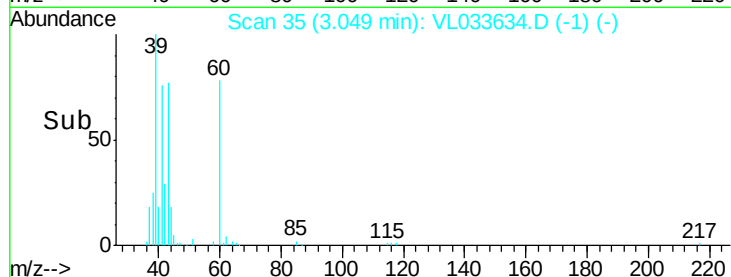
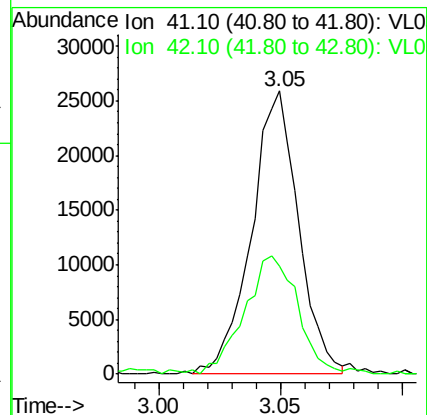
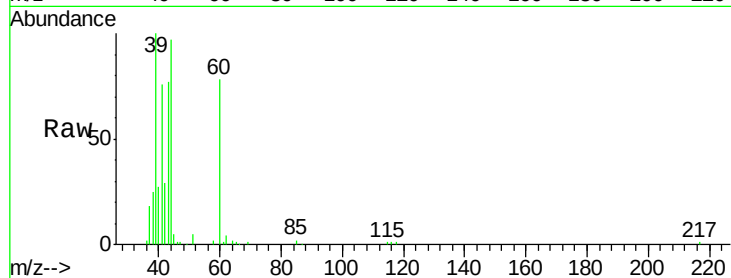
41 100

42 48.2 66.0 99.0#

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5/4/2019 7:18:42 AM



#11

Trichlorofluoromethane

Concen: 0.283 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL033634.D

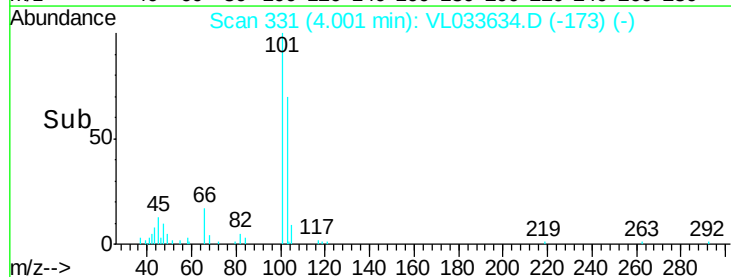
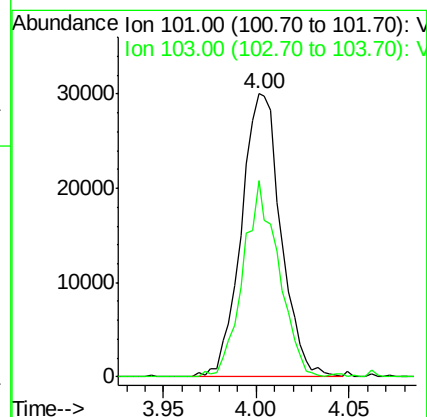
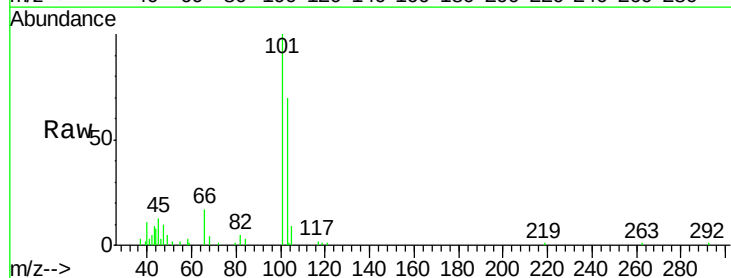
Acq: 2 May 2019 19:05

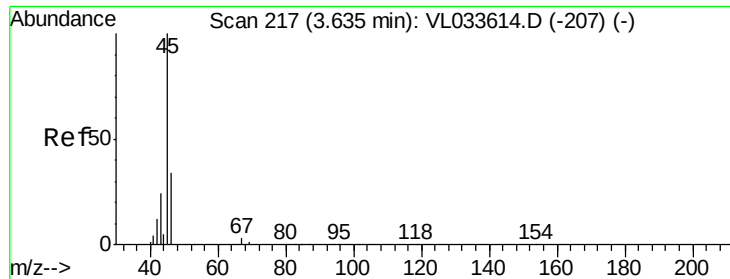
Tgt Ion: 101 Resp: 44424

Ion Ratio Lower Upper

101 100

103 69.5 51.2 76.8





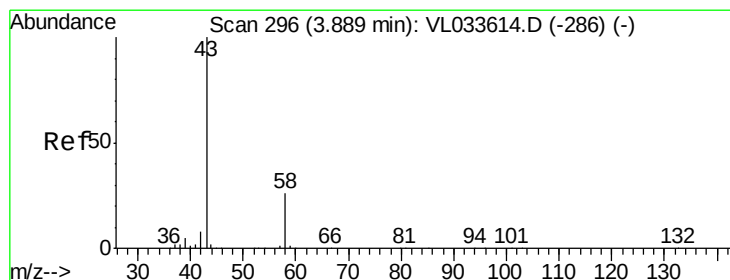
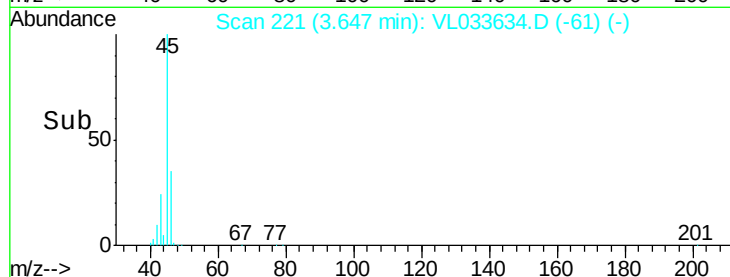
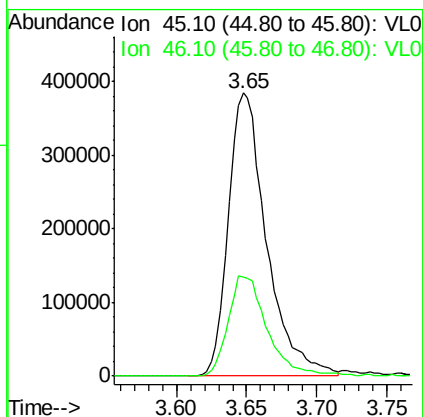
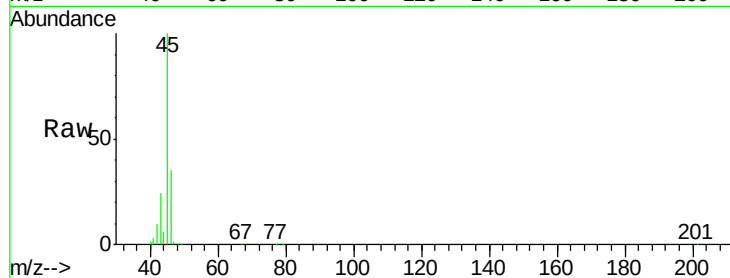
#13
Ethanol
Concen: 53.664 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.01 min
Lab File: VL033634.D
Acq: 2 May 2019 19:05

Instrument :
MSVOA_L
ClientSampleId :
A-5

Tot Ion: 45 Resp: 729228
Ion Ratio Lower Upper
45 100
46 36.7 14.6 58.2

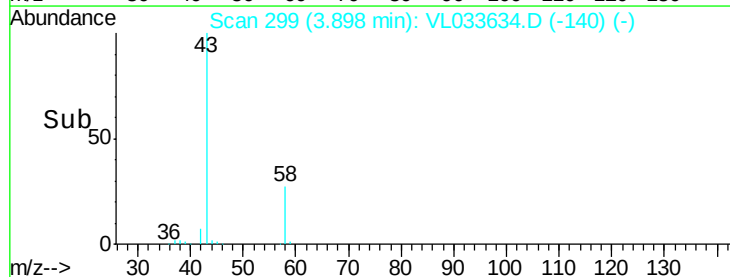
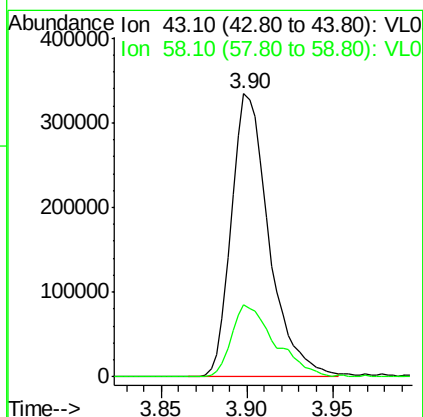
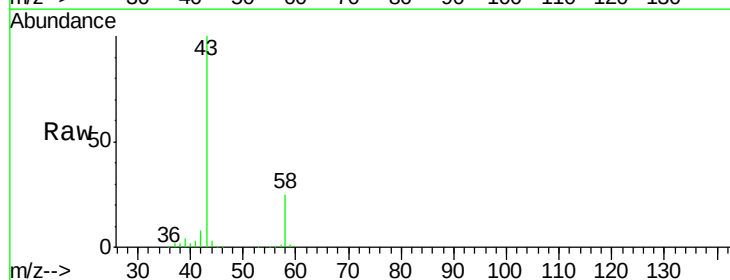
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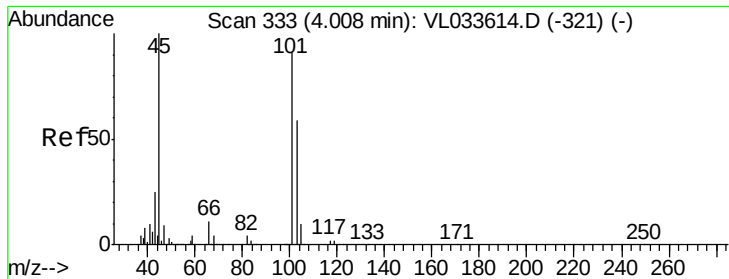
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5/4/2019 7:18:42 AM



#15
Acetone
Concen: 4.780 ppbv
RT: 3.90 min Scan# 299
Delta R.T. 0.01 min
Lab File: VL033634.D
Acq: 2 May 2019 19:05

Tgt Ion: 43 Resp: 509470
Ion Ratio Lower Upper
43 100
58 29.7 21.2 31.8





#19

Isopropyl Alcohol

Concen: 2.371 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.02 min

Lab File: VL033634.D

Acq: 2 May 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

A-5

Tot Ion: 45 Resp: 173418

Ion Ratio Lower Upper

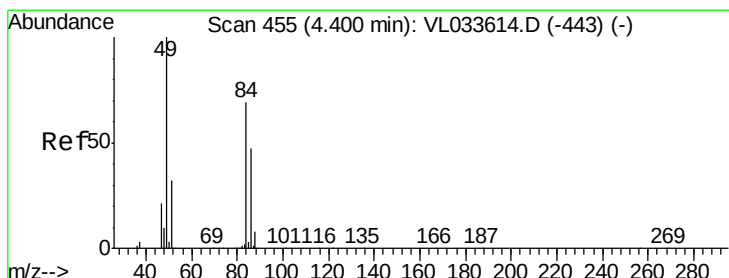
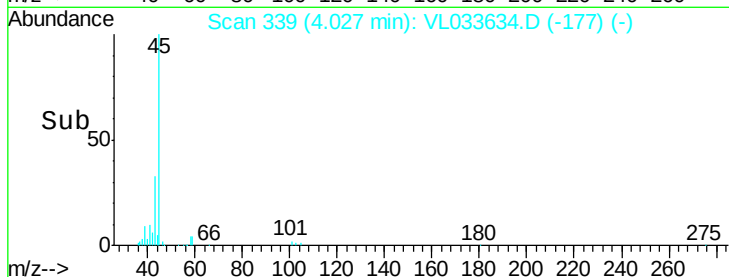
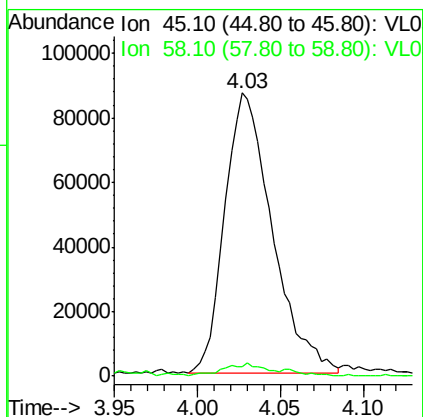
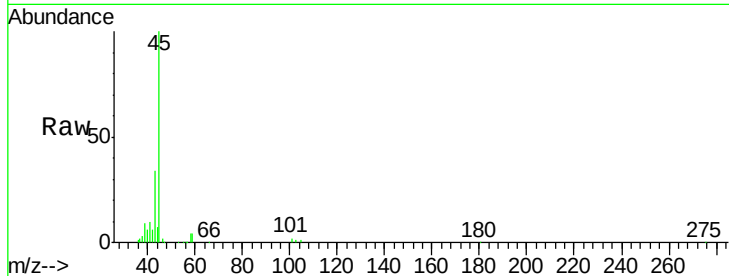
45 100

58 4.6 1.8 2.6#

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5/4/2019 7:18:42 AM



#20

Methylene Chloride

Concen: 1.022 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.01 min

Lab File: VL033634.D

Acq: 2 May 2019 19:05

Tgt Ion: 84 Resp: 42461

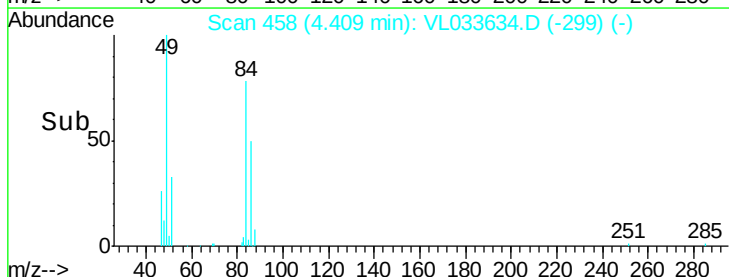
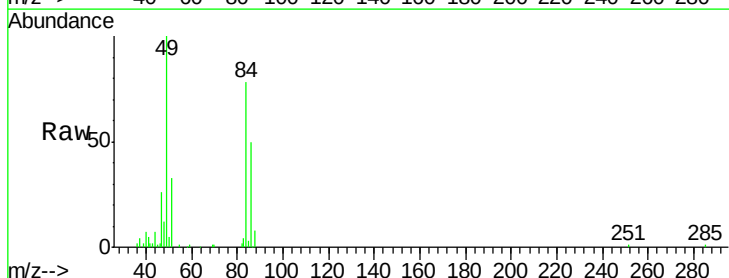
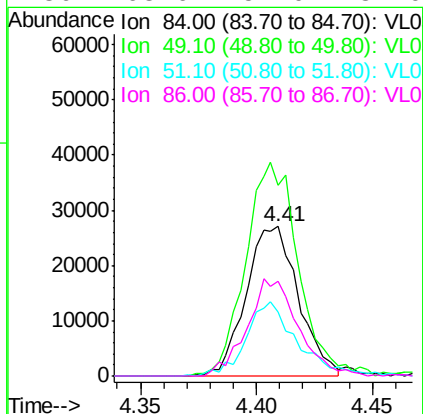
Ion Ratio Lower Upper

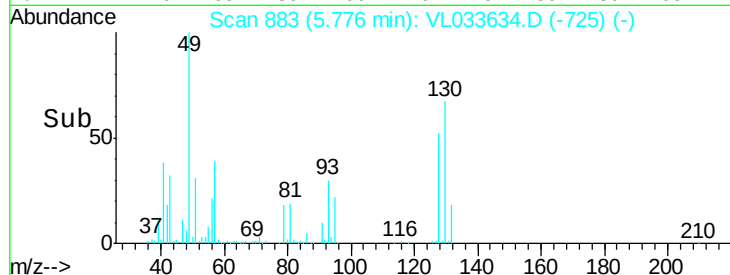
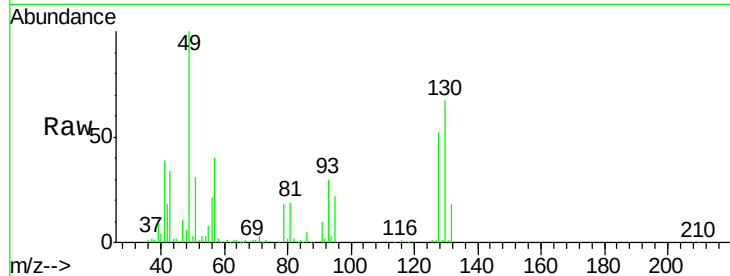
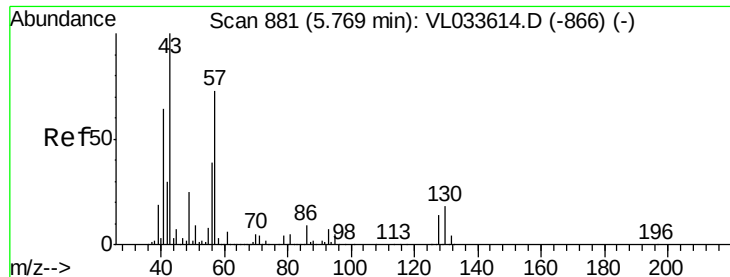
84 100

49 127.9 116.2 174.2

51 41.3 37.0 55.6

86 63.6 54.0 81.0





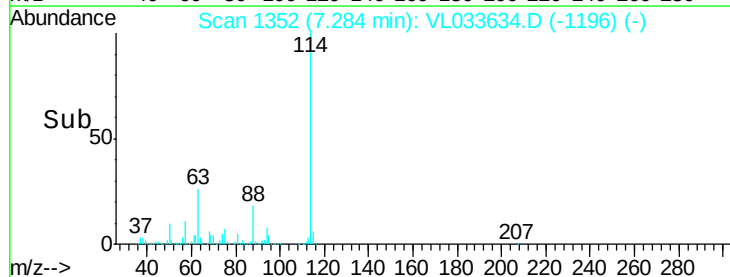
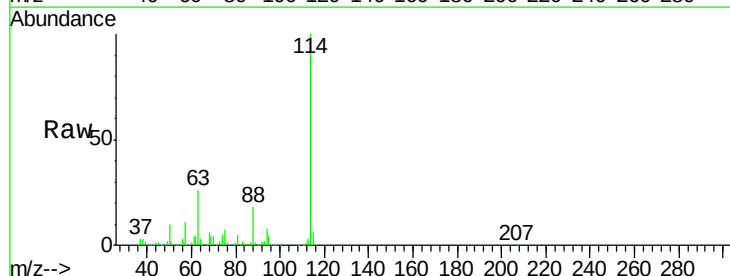
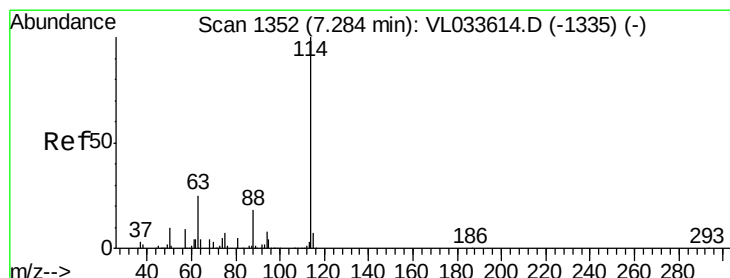
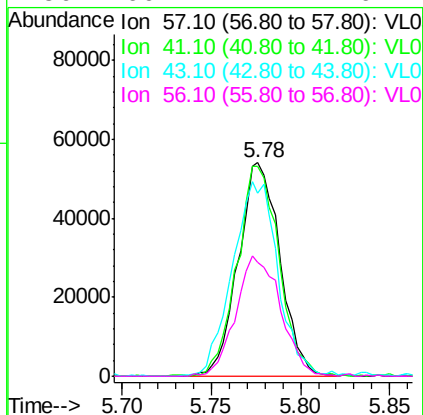
#26
Hexane
Concen: 1.031 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033634.D
Acq: 2 May 2019 19:05

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		87785		
41	99.9	70.6	106.0		
43	100.6	186.0	279.0		
56	60.7	42.7	64.1		

Instrument :
MSVOA_L
ClientSampleId :
A-5

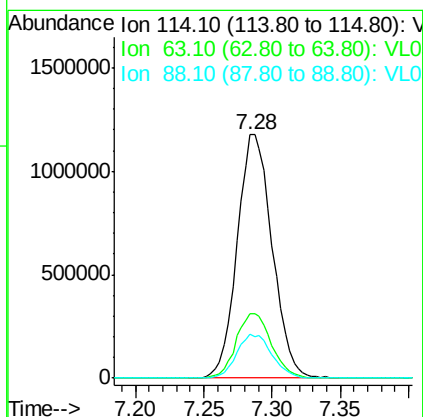
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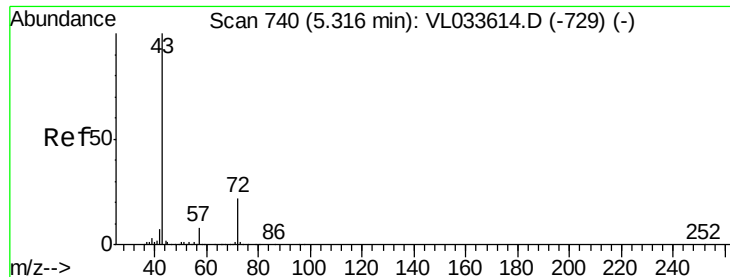
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL033634.D
Acq: 2 May 2019 19:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
114	100		2095016		
63	26.9	21.1	31.7		
88	18.0	14.2	21.4		





#34

2-Butanone

Concen: 0.201 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.02 min

Lab File: VL033634.D

Acq: 2 May 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

A-5

Tot Ion: 43 Resp: 25835

Ion Ratio Lower Upper

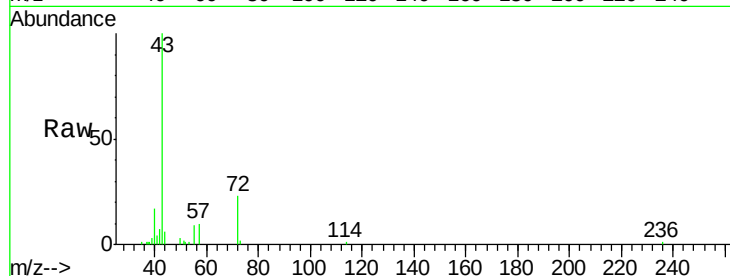
43 100

72 22.6 17.8 26.8

Manual Integrations
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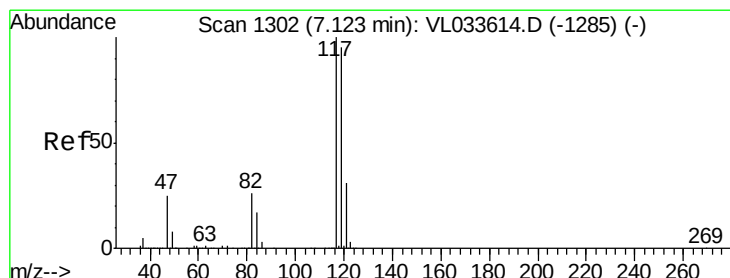
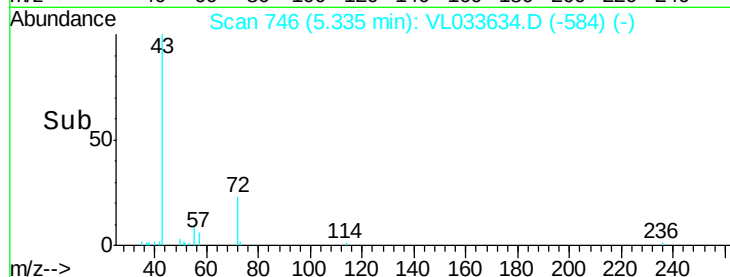
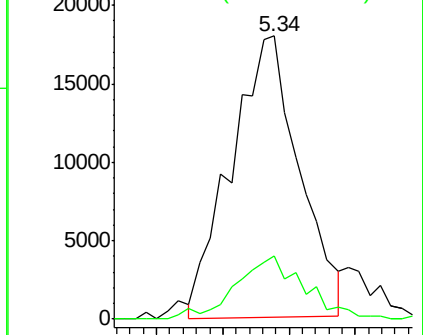
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5/4/2019 7:18:42 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033634.D

Acq: 2 May 2019 19:05

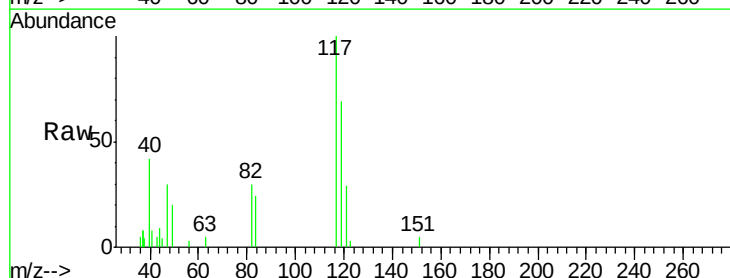
Tgt Ion: 117 Resp: 10986

Ion Ratio Lower Upper

117 100

119 69.0 76.2 114.4#

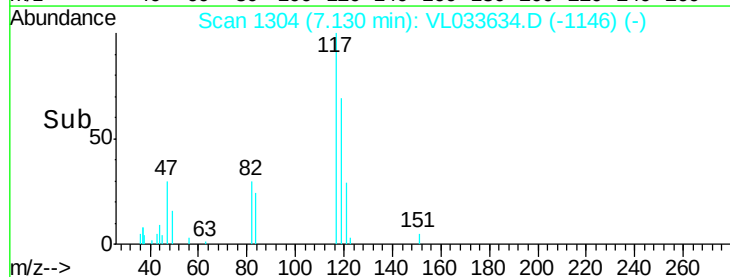
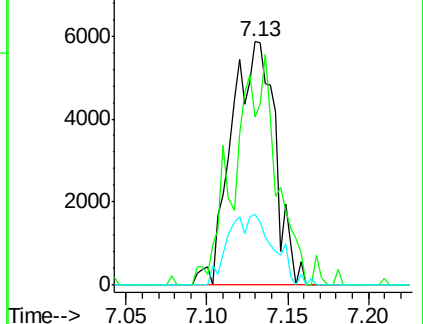
121 28.9 24.9 37.3

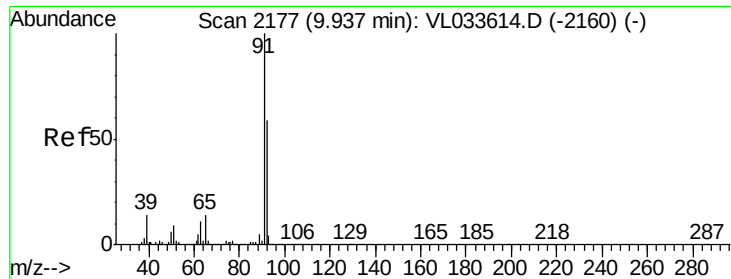


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#53

Toluene

Concen: 2.717 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. 0.00 min

Lab File: VL033634.D

Acq: 2 May 2019 19:05

Instrument :

MSVOA_L

ClientSampled :

A-5

Tot Ion: 91 Resp: 612091

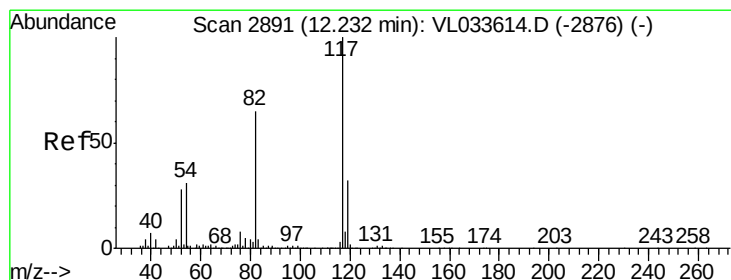
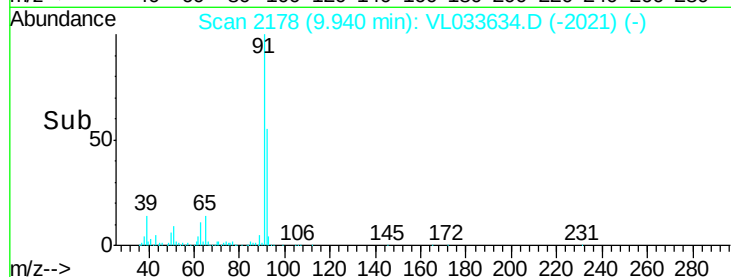
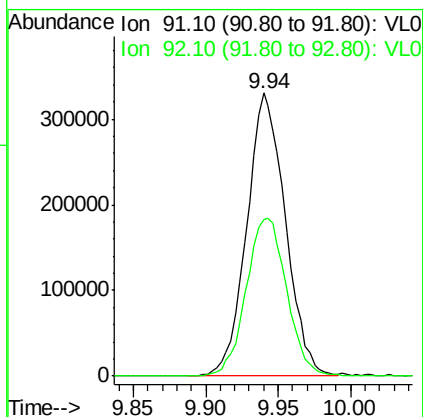
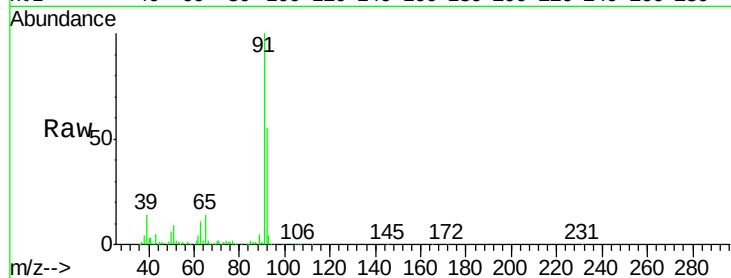
Ion Ratio Lower Upper

91 100

92 58.8 47.8 71.6

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:42 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL033634.D

Acq: 2 May 2019 19:05

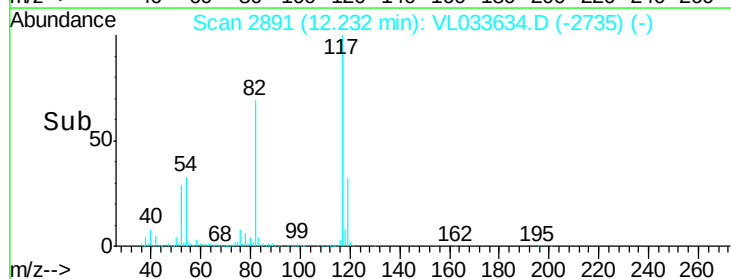
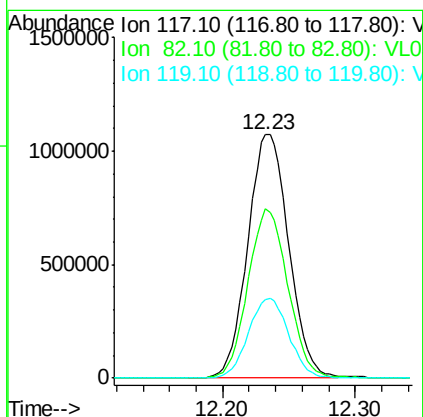
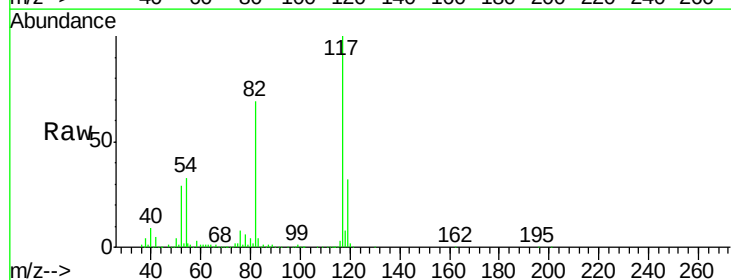
Tgt Ion: 117 Resp: 2306883

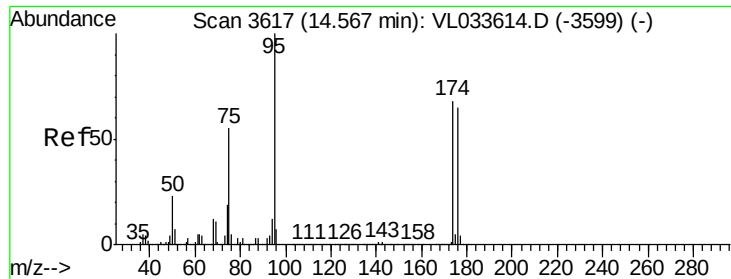
Ion Ratio Lower Upper

117 100

82 68.4 52.6 78.8

119 32.4 28.3 42.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.732 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. 0.00 min
 Lab File: VL033634.D
 Acq: 2 May 2019 19:05

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5

Tot Ion: 95 Resp: 1709129
 Ion Ratio Lower Upper
 95 100
 174 66.7 53.9 80.9
 175 4.6 4.0 6.0

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:42 AM

