

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033636.D
 Acq On : 2 May 2019 20:25
 Operator : SY/AP
 Sample : K2628-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:43 AM

Quant Time: May 03 08:44:16 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 08:44:16 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	889801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2096727	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2078578	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1694597	10.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	73621	0.549	ppbv	98
3) Chlorodifluoromethane	3.01	51	33640m	0.316	ppbv	
4) Chloromethane	3.17	50	28310	0.489	ppbv	98
11) Trichlorofluoromethane	4.00	101	42554	0.267	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	8568m	0.078	ppbv	
13) Ethanol	3.65	45	770088	55.756	ppbv	99
15) Acetone	3.90	43	596859	5.510	ppbv	97
19) Isopropyl Alcohol	4.03	45	165522	2.226	ppbv #	89
20) Methylene Chloride	4.41	84	64761	1.534	ppbv	92
26) Hexane	5.78	57	285187	3.294	ppbv #	41
34) 2-Butanone	5.33	43	24600	0.191	ppbv	95
35) Carbon Tetrachloride	7.13	117	10889m	0.066	ppbv	
36) Benzene	7.00	78	17209m	0.096	ppbv	
53) Toluene	9.94	91	1951211	8.655	ppbv	99

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

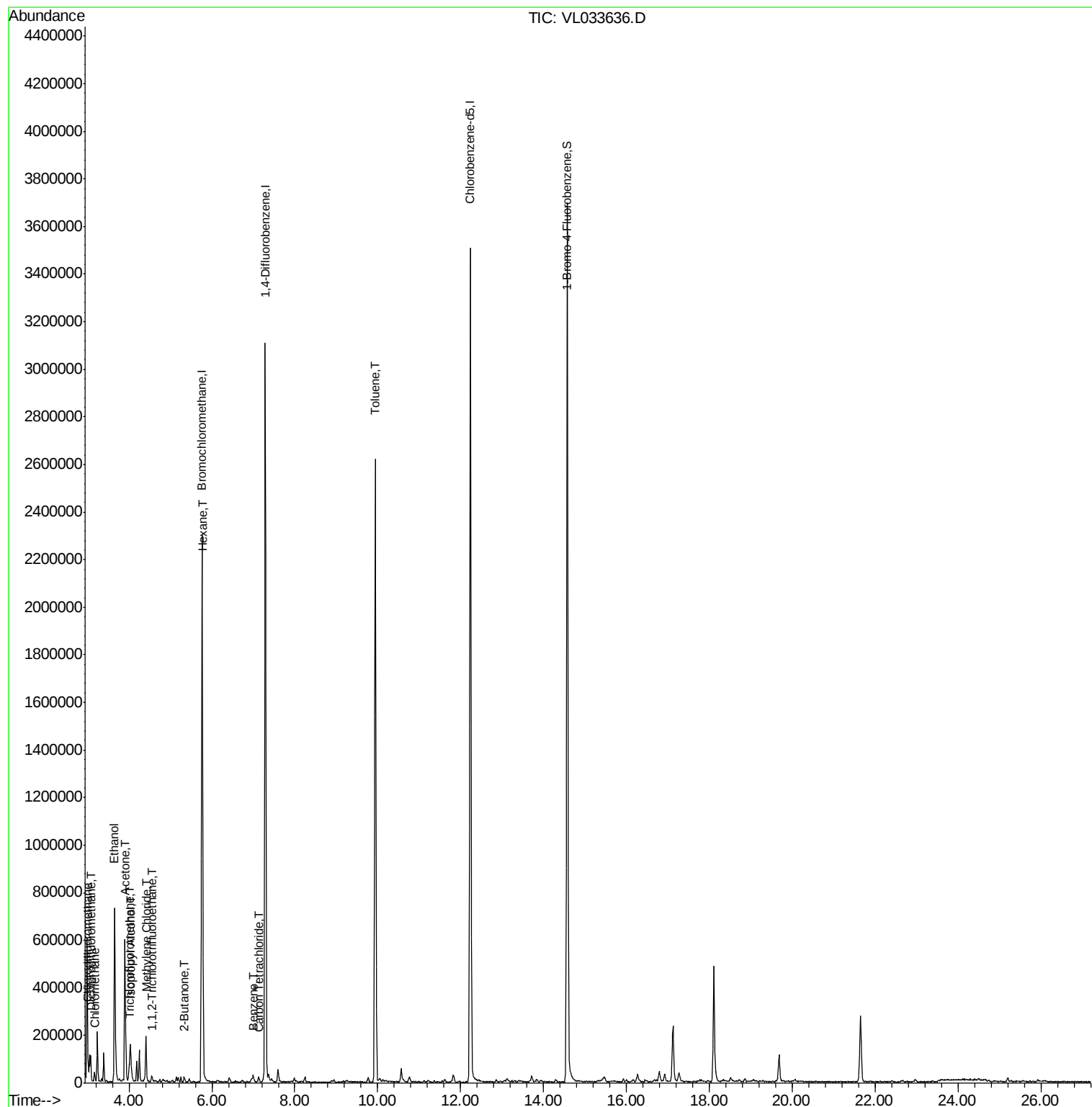
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
Data File : VL033636.D
Acq On : 2 May 2019 20:25
Operator : SY/AP
Sample : K2628-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

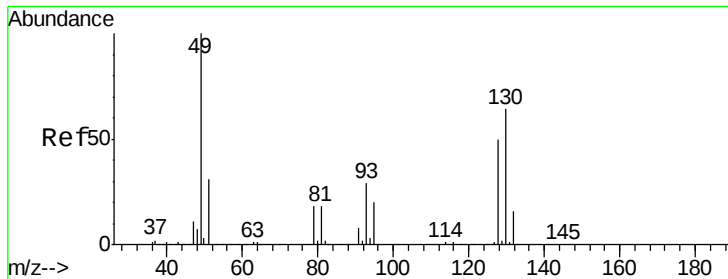
Instrument :
MSVOA_L
ClientSampleId :
A-6

Manual Integrations
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5/4/2019 7:18:43 AM

Quant Time: May 03 08:44:16 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





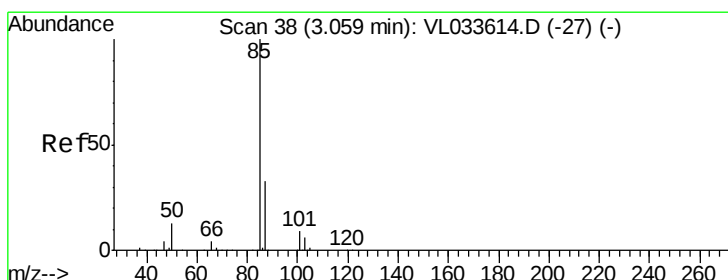
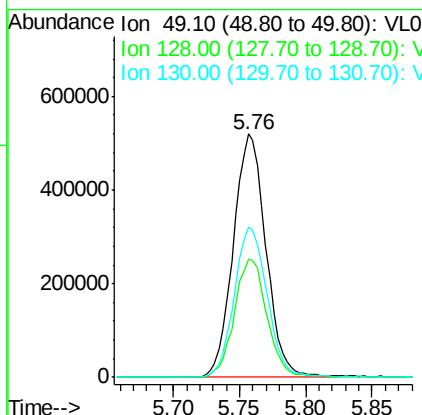
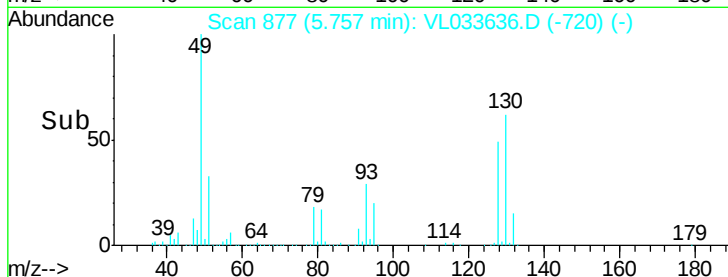
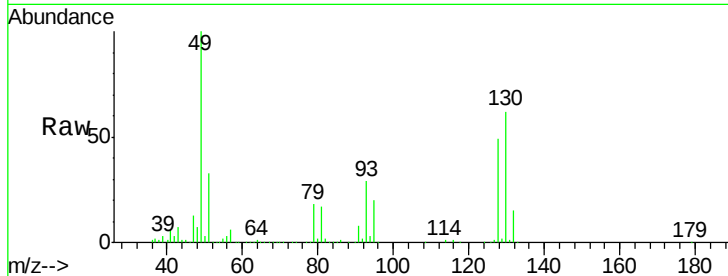
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VL033636.D
 Acq: 2 May 2019 20:25

Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

Tot Ion:	49	Resp:	889801
Ion Ratio	Lower	Upper	
49	100		
128	48.5	25.0	75.0
130	62.4	31.9	95.9

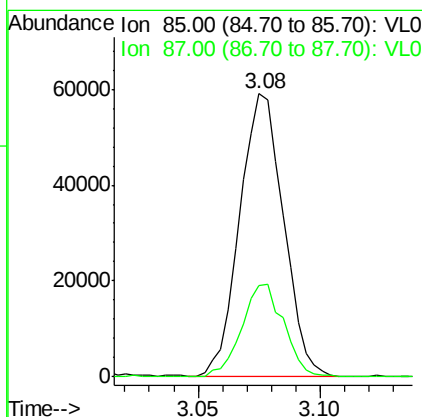
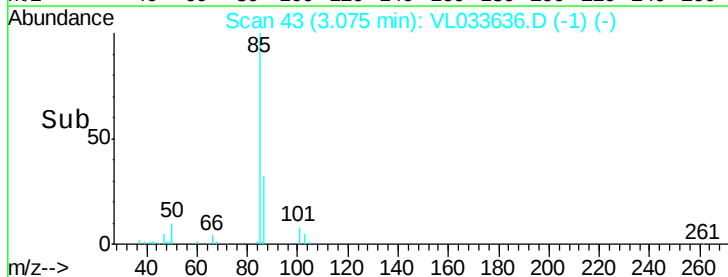
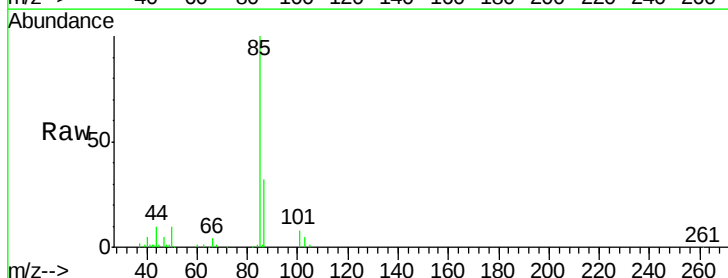
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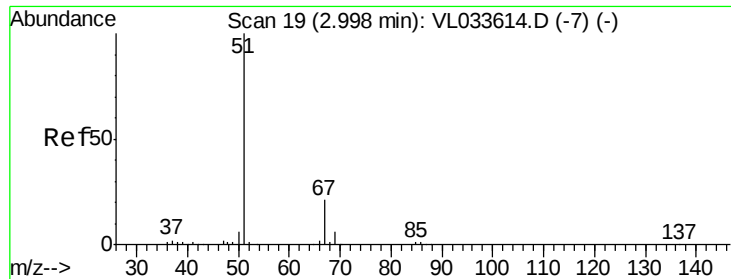
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#2
 Dichlorodifluoromethane
 Concen: 0.549 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.02 min
 Lab File: VL033636.D
 Acq: 2 May 2019 20:25

Tgt Ion:	85	Resp:	73621
Ion Ratio	Lower	Upper	
85	100		
87	32.3	26.8	40.2





#3

Chlorodifluoromethane

Concen: 0.316 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.02 min

Lab File: VL033636.D

Acq: 2 May 2019 20:25

Instrument :

MSVOA_L

ClientSampleId :

A-6

Tot Ion: 51 Resp: 33640

Ion Ratio Lower Upper

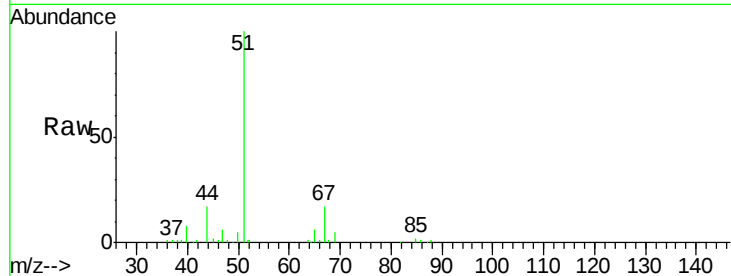
51 100

67 33.9 15.6 23.4#

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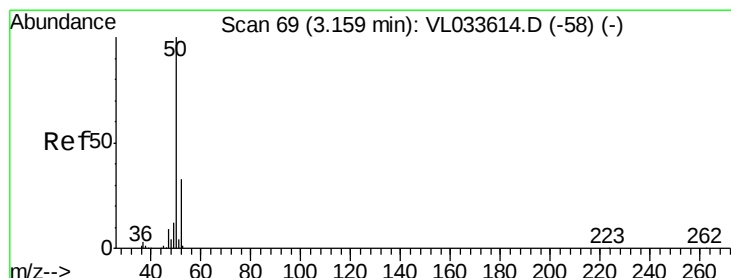
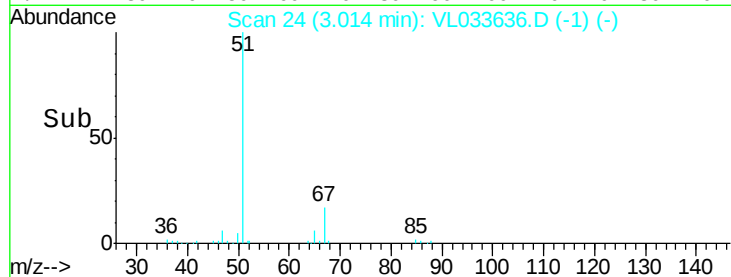
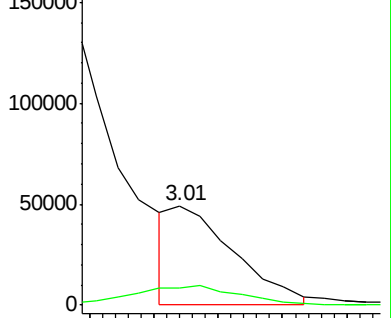
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.489 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL033636.D

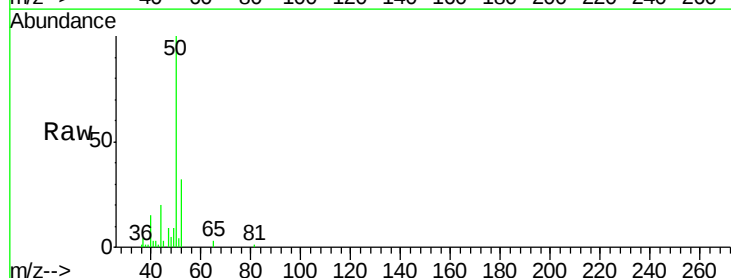
Acq: 2 May 2019 20:25

Tgt Ion: 50 Resp: 28310

Ion Ratio Lower Upper

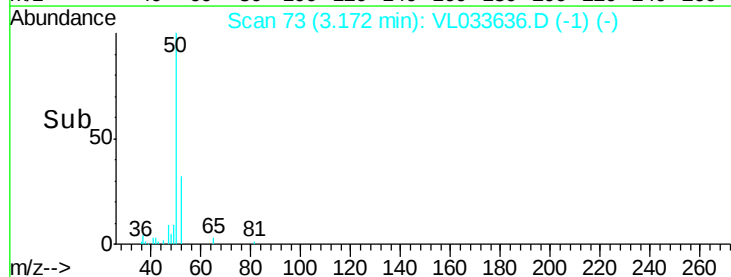
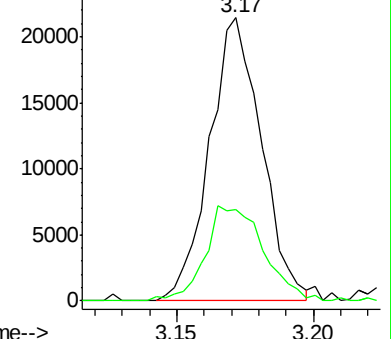
50 100

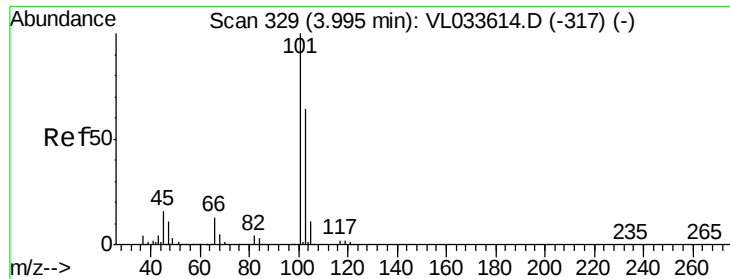
52 31.3 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





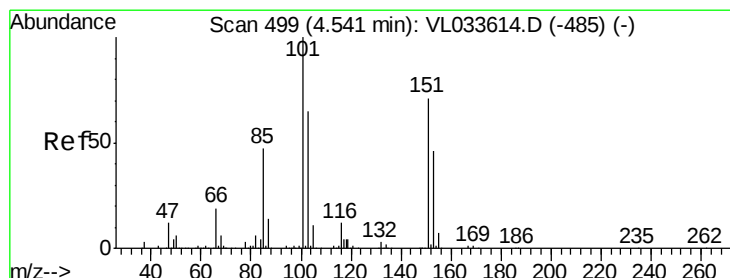
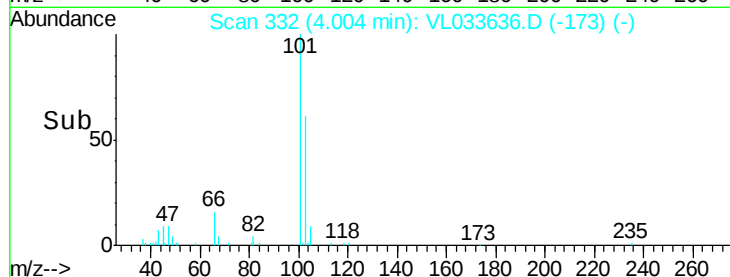
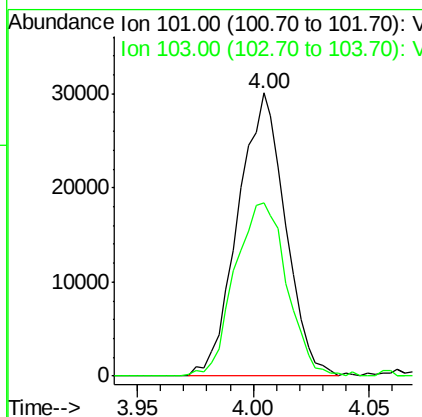
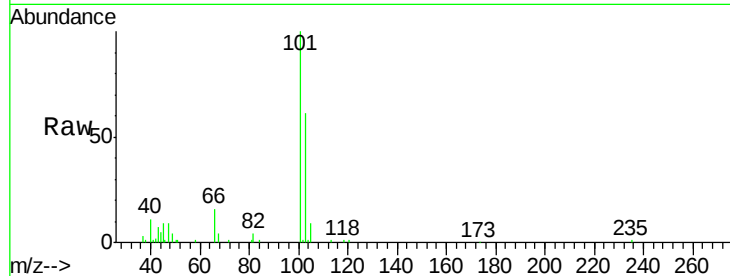
#11
 Trichlorofluoromethane
 Concen: 0.267 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL033636.D
 Acq: 2 May 2019 20:25

Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

Tot Ion:101 Resp: 42554
 Ion Ratio Lower Upper
 101 100
 103 62.1 51.2 76.8

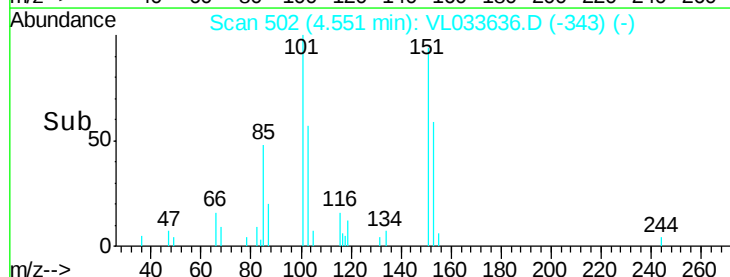
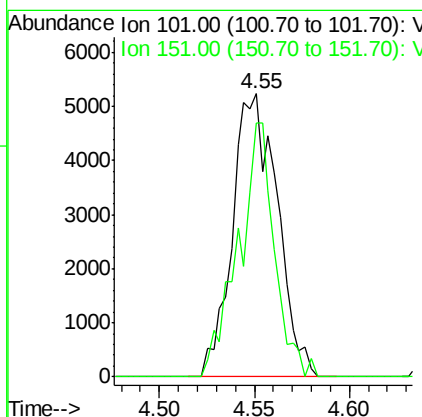
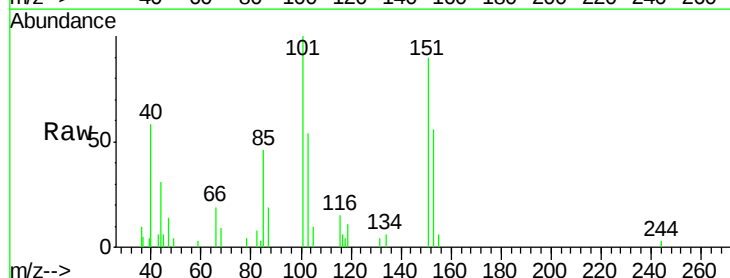
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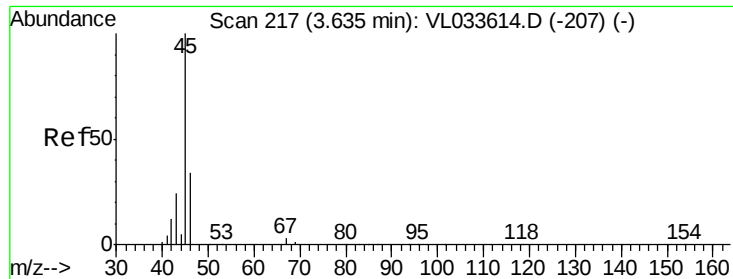
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv m
 RT: 4.55 min Scan# 502
 Delta R.T. 0.01 min
 Lab File: VL033636.D
 Acq: 2 May 2019 20:25

Tgt Ion:101 Resp: 8568
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.2 88.8#





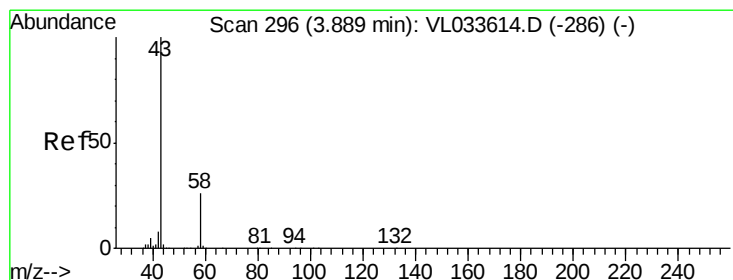
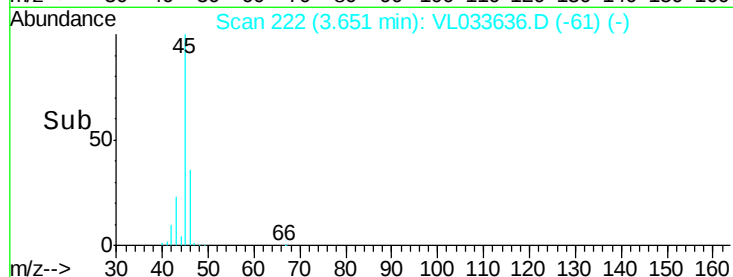
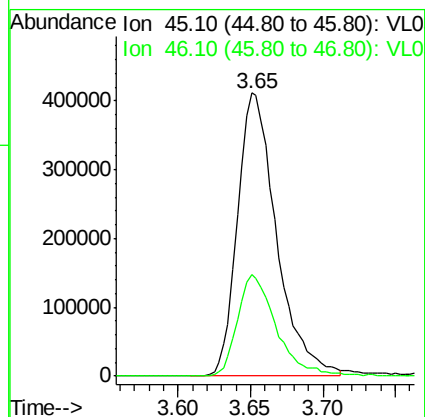
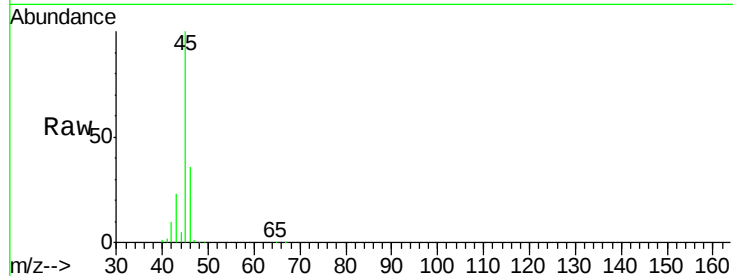
#13
Ethanol
Concen: 55.756 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.02 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion: 45 Resp: 770088
Ion Ratio Lower Upper
45 100
46 35.9 14.6 58.2

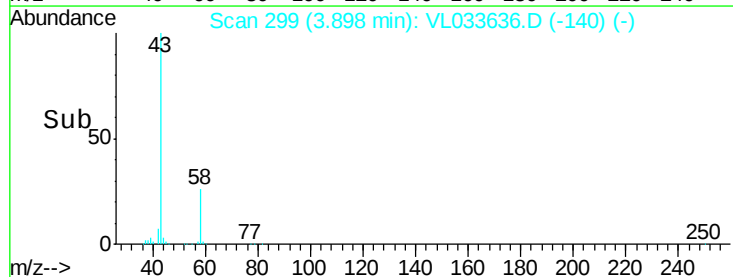
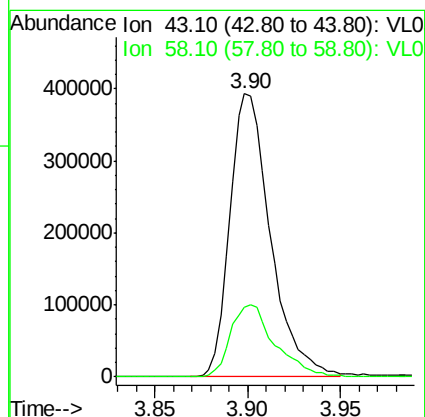
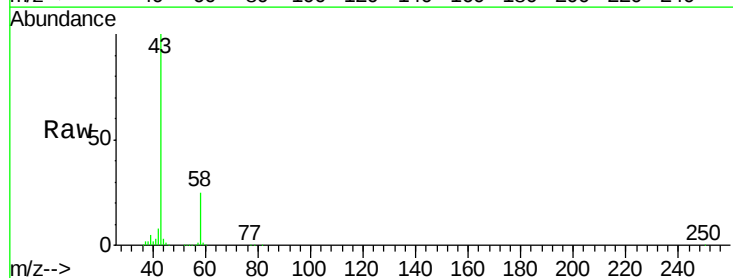
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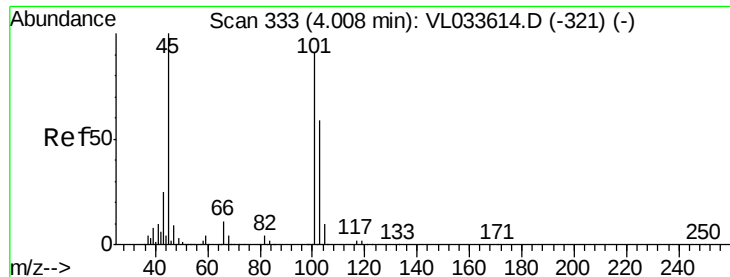
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#15
Acetone
Concen: 5.510 ppbv
RT: 3.90 min Scan# 299
Delta R.T. 0.01 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Tgt Ion: 43 Resp: 596859
Ion Ratio Lower Upper
43 100
58 28.0 21.2 31.8





#19

Isopropyl Alcohol

Concen: 2.226 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.02 min

Lab File: VL033636.D

Acq: 2 May 2019 20:25

Instrument :

MSVOA_L

ClientSampleId :

A-6

Tot Ion: 45 Resp: 165522

Ion Ratio Lower Upper

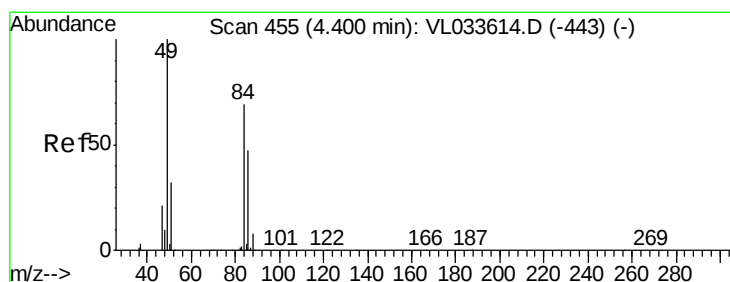
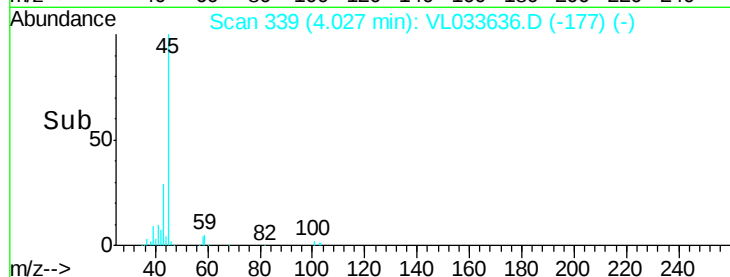
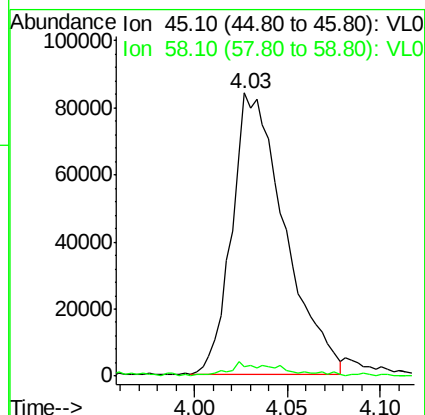
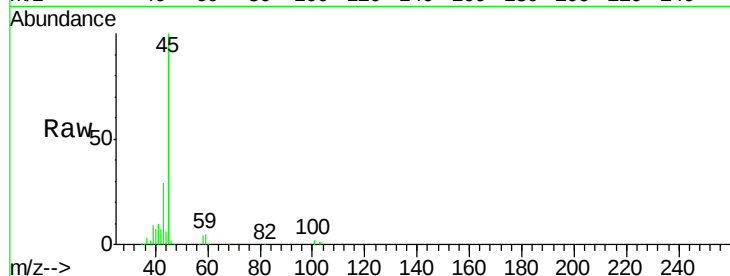
45 100

58 5.9 1.8 2.6#

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#20

Methylene Chloride

Concen: 1.534 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.01 min

Lab File: VL033636.D

Acq: 2 May 2019 20:25

Tgt Ion: 84 Resp: 64761

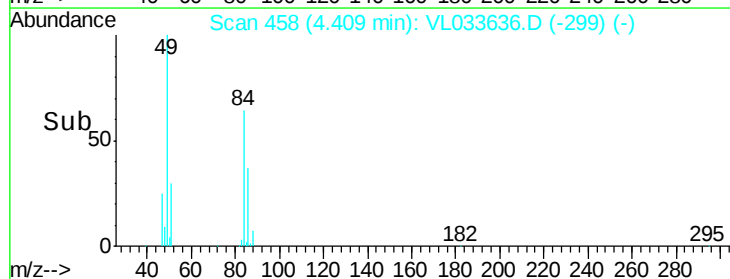
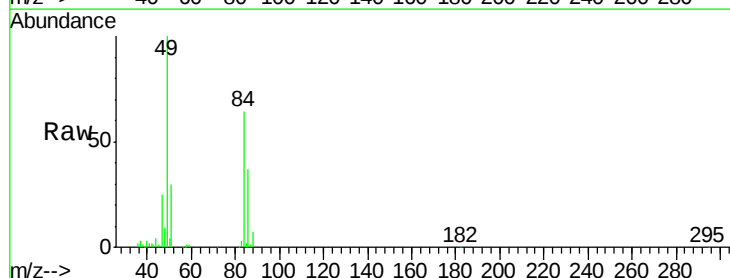
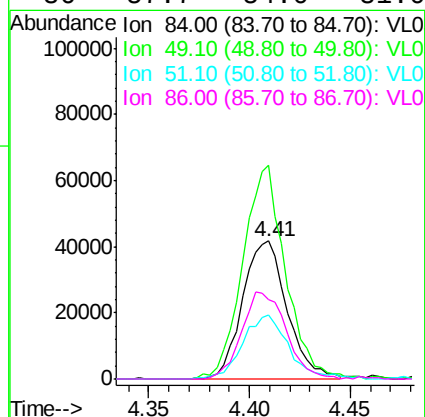
Ion Ratio Lower Upper

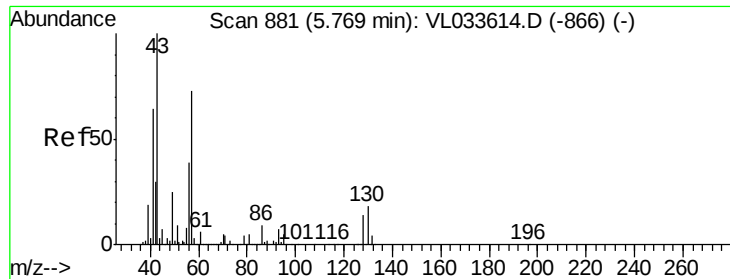
84 100

49 155.1 116.2 174.2

51 46.7 37.0 55.6

86 57.7 54.0 81.0





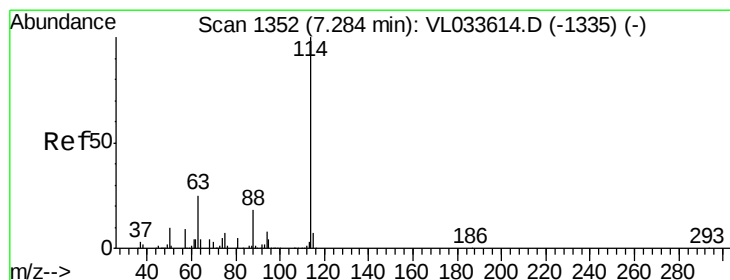
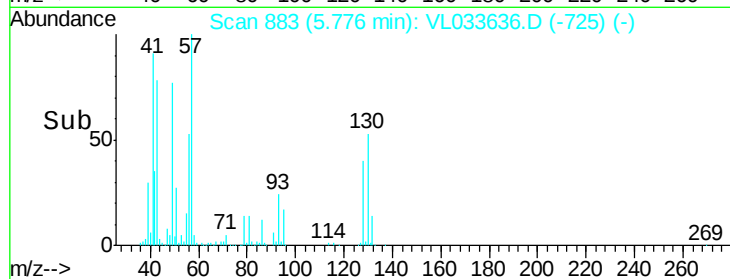
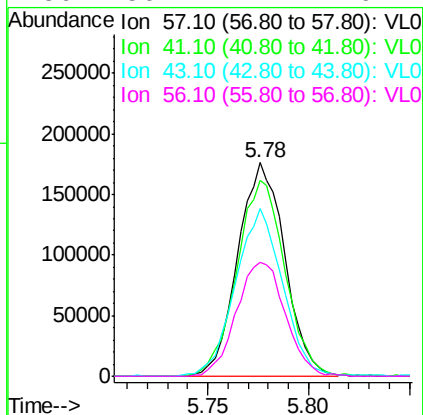
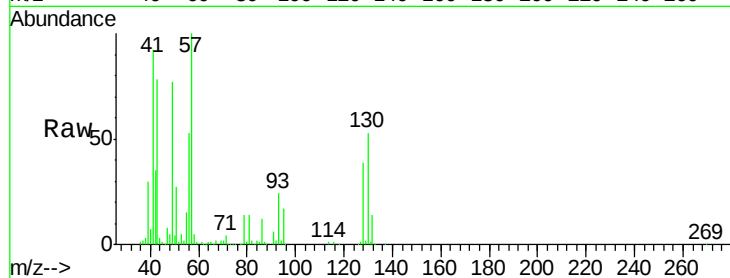
#26
Hexane
Concen: 3.294 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion	57	Resp	285187
Ion	Ratio	Lower	Upper
57	100		
41	95.2	70.6	106.0
43	80.1	186.0	279.0#
56	56.1	42.7	64.1

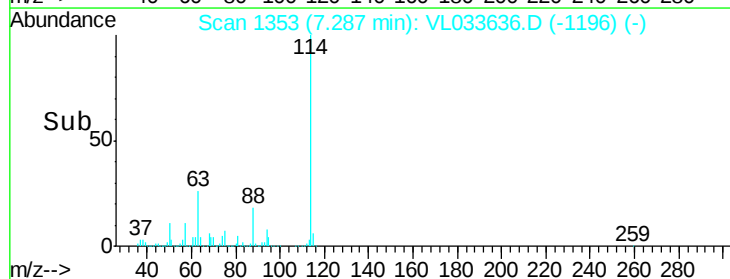
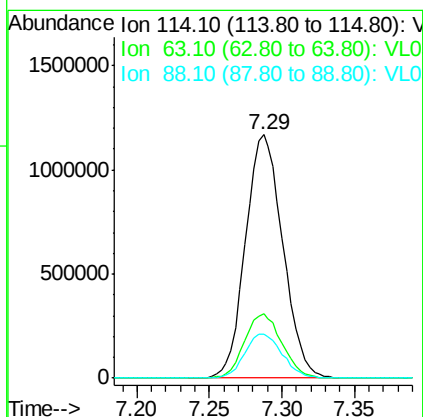
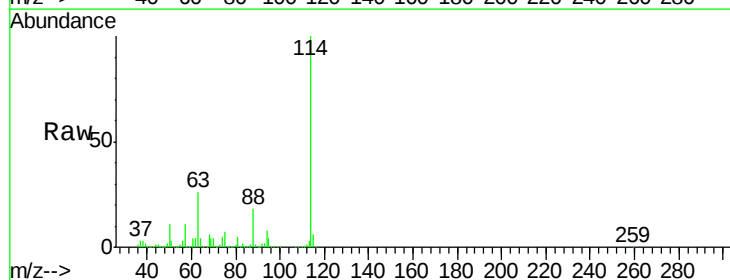
Manual Integrations
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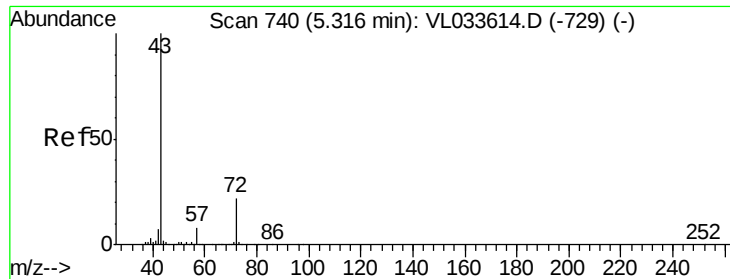
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Tgt Ion	114	Resp	2096727
Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.1	31.7
88	18.3	14.2	21.4





#34

2-Butanone

Concen: 0.191 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.01 min

Lab File: VL033636.D

Acq: 2 May 2019 20:25

Instrument :

MSVOA_L

ClientSampleId :

A-6

Tot Ion: 43 Resp: 24600

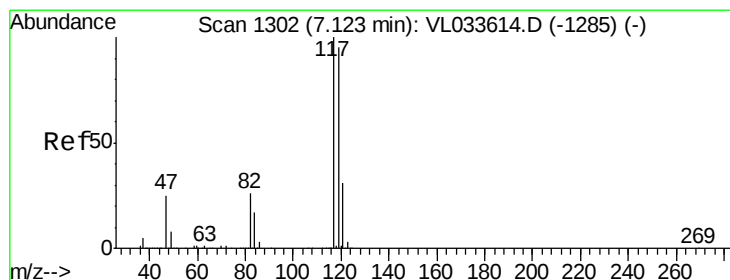
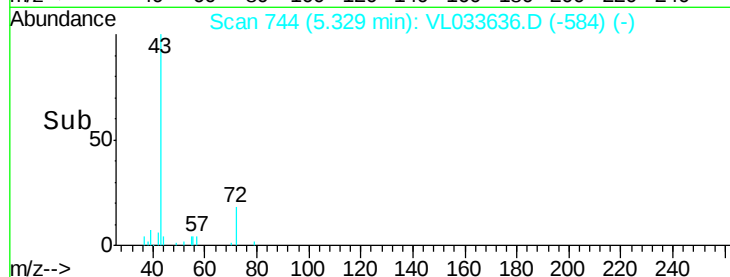
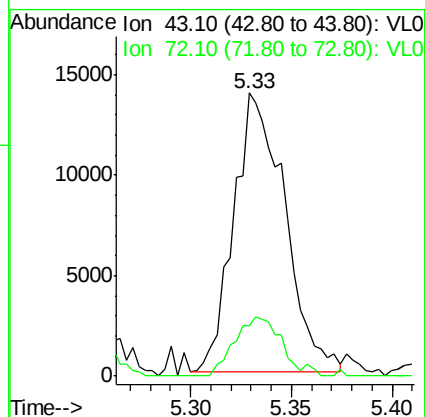
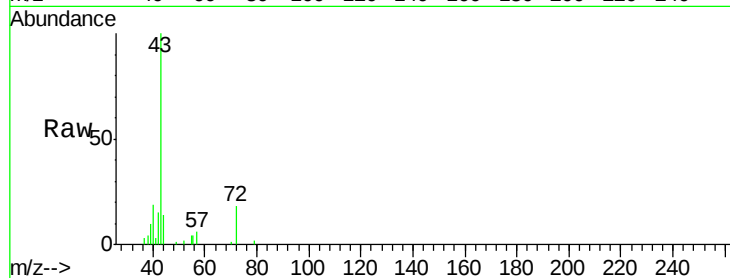
Ion Ratio Lower Upper

43 100

72 19.9 17.8 26.8

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033636.D

Acq: 2 May 2019 20:25

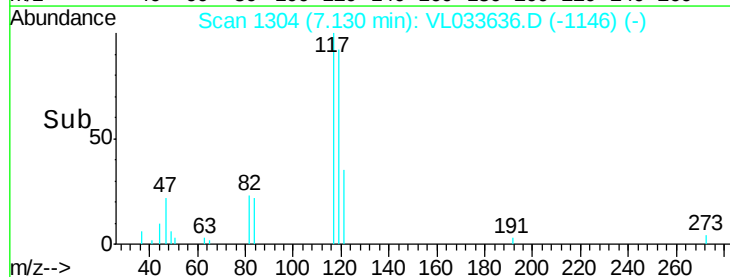
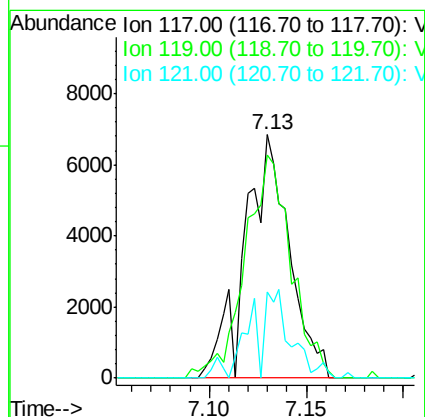
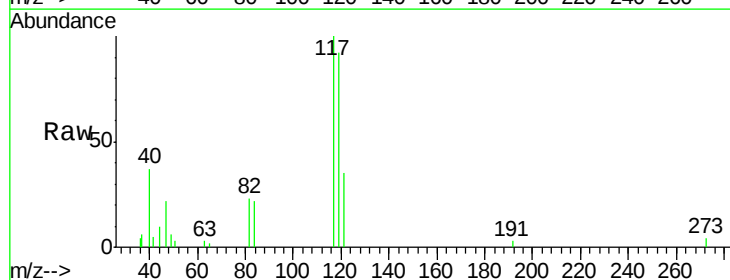
Tgt Ion: 117 Resp: 10889

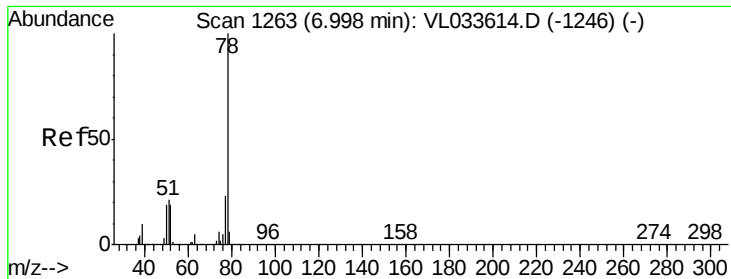
Ion Ratio Lower Upper

117 100

119 91.9 76.2 114.4

121 35.4 24.9 37.3





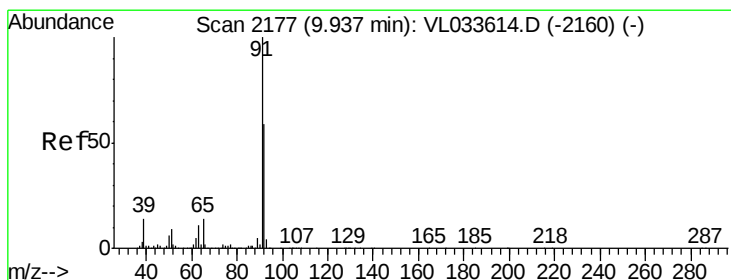
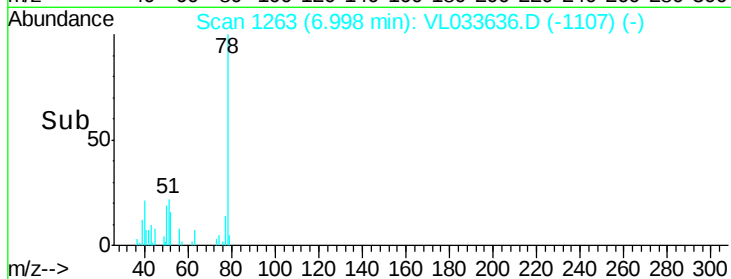
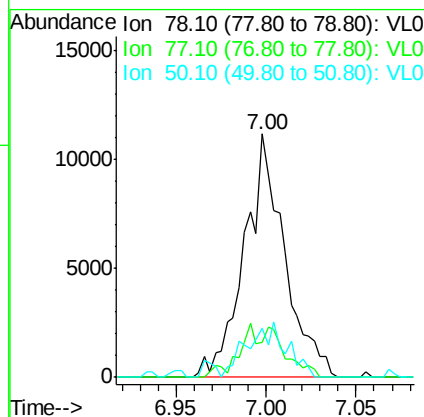
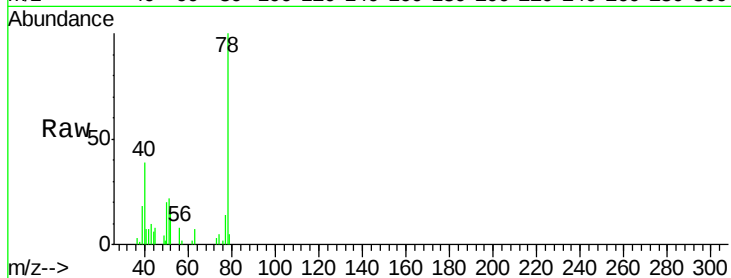
#36
Benzene
Concen: 0.096 ppbv m
RT: 7.00 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion	Ratio	Lower	Upper
78	100		
77	14.3	18.1	27.1#
50	20.0	15.1	22.7

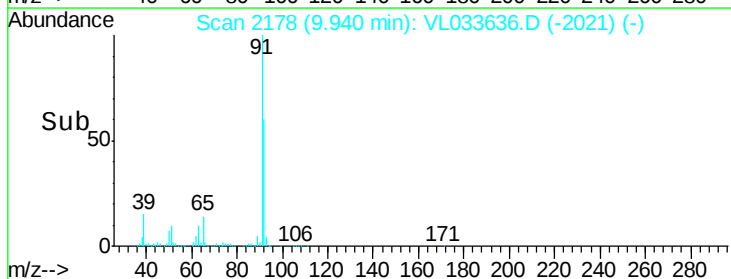
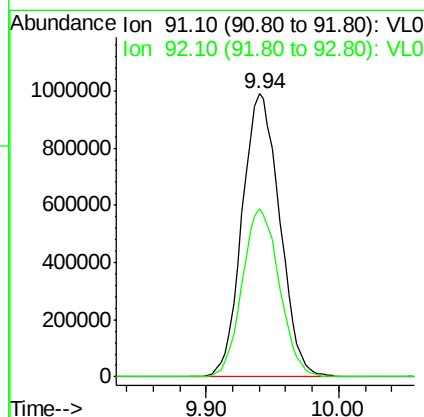
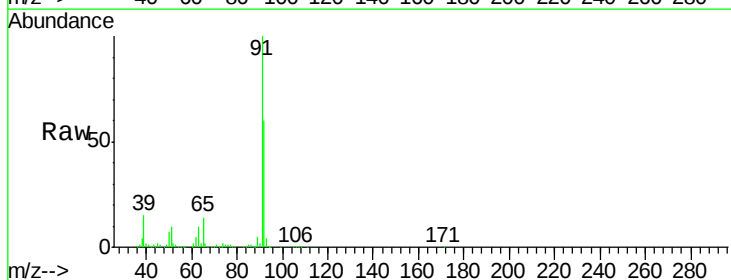
Manual Integrations
APPROVED

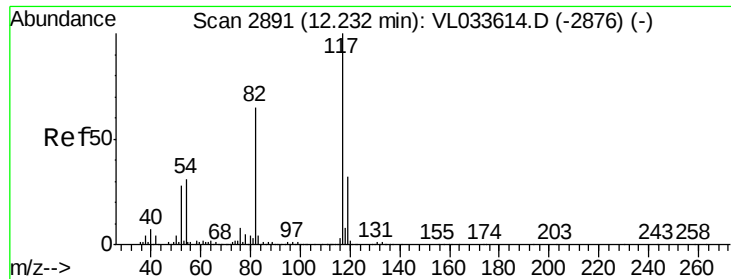
MMDadoda
5/4/2019 7:18:43 AM



#53
Toluene
Concen: 8.655 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. 0.00 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.8	71.6





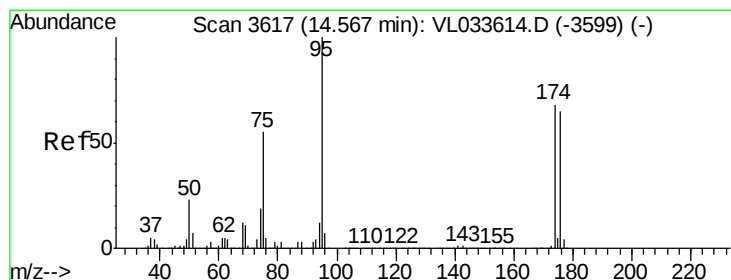
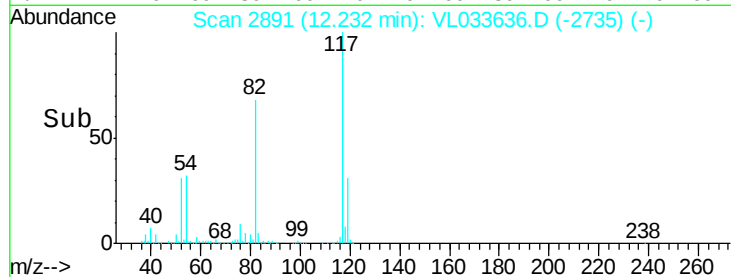
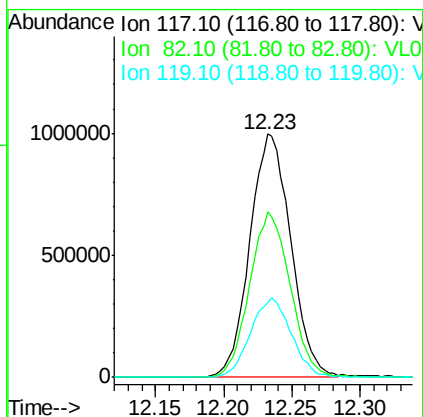
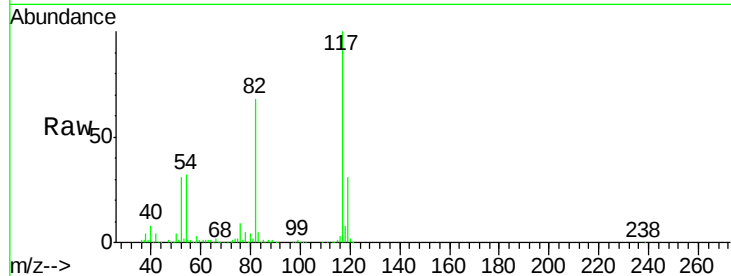
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Instrument :
MSVOA_L
ClientSampleId :
A-6

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.9	52.6	78.8
119	32.7	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:43 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.709 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. 0.00 min
Lab File: VL033636.D
Acq: 2 May 2019 20:25

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.2	53.9	80.9
175	4.7	4.0	6.0

