

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033628.D
 Acq On : 2 May 2019 15:01
 Operator : SY/AP
 Sample : K2628-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

Manual Integrations
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 5/4/2019 7:18:28 AM

Quant Time: May 03 04:06:58 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 04:06:58 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	5.75	49	861201	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2213373	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2289018	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1790000	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	42253	0.326	ppbv	92
3) Chlorodifluoromethane	3.01	51	34590	0.336	ppbv	94
4) Chloromethane	3.17	50	31180	0.556	ppbv #	86
11) Trichlorofluoromethane	4.00	101	44470	0.288	ppbv	96
13) Ethanol	3.66	45	36359	2.720	ppbv	92
15) Acetone	3.90	43	214427	2.045	ppbv	98
20) Methylene Chloride	4.41	84	65721	1.608	ppbv	98
26) Hexane	5.78	57	142925	1.706	ppbv #	38
34) 2-Butanone	5.34	43	19643m	0.145	ppbv	
35) Carbon Tetrachloride	7.13	117	11560m	0.066	ppbv	
36) Benzene	7.00	78	13407	0.071	ppbv #	74
53) Toluene	9.94	91	306311	1.287	ppbv	98

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

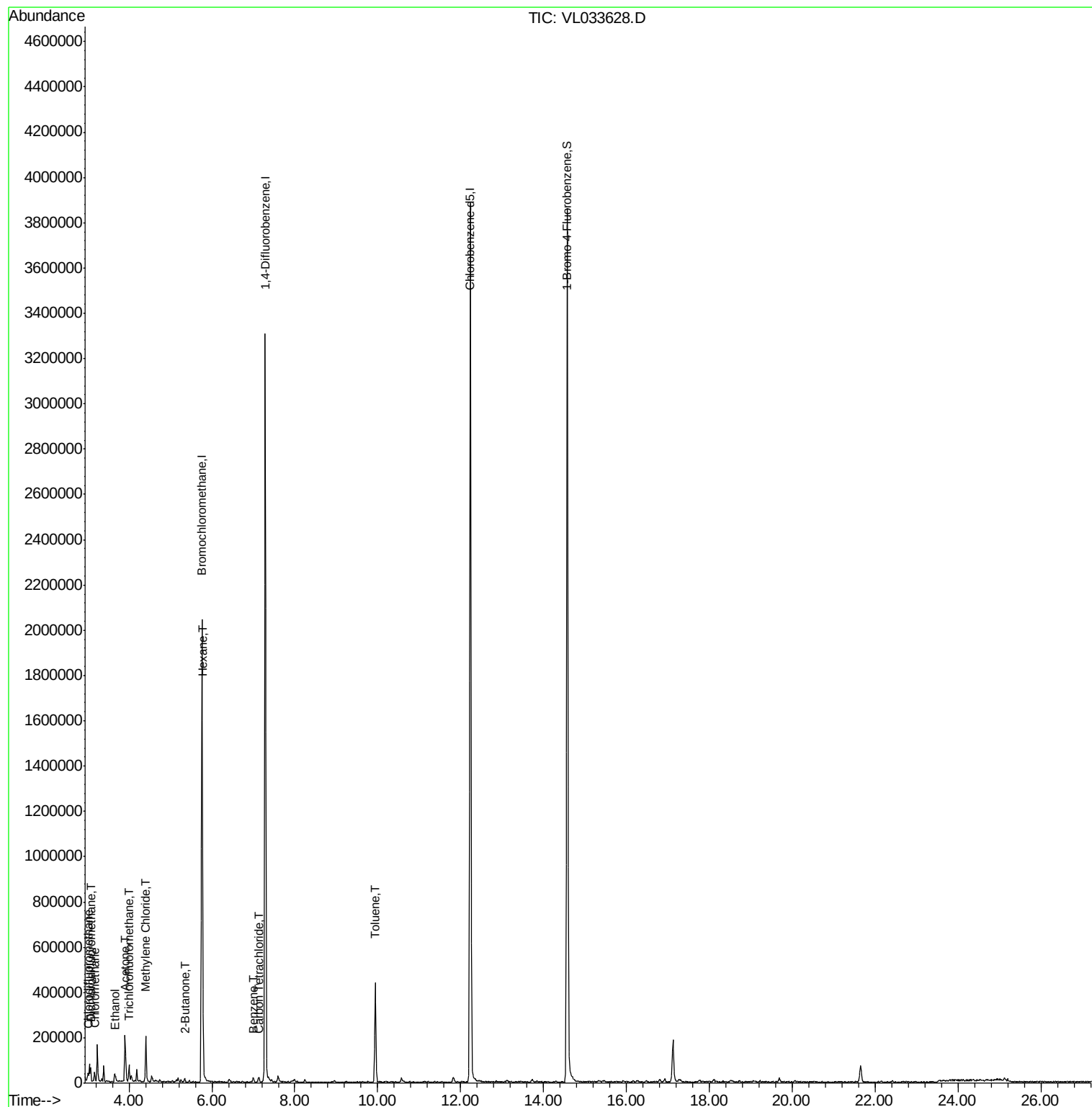
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050219\
Data File : VL033628.D
Acq On : 2 May 2019 15:01
Operator : SY/AP
Sample : K2628-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

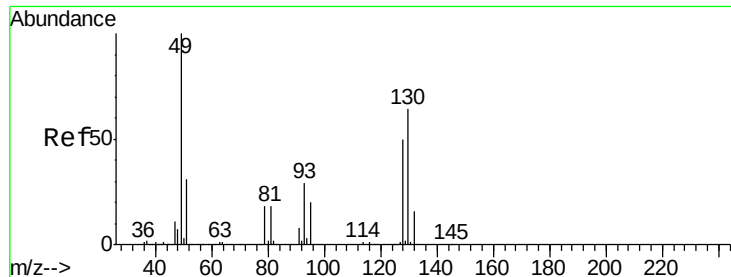
Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

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Quant Time: May 03 04:06:58 2019
Quant Method : Z:\V0ASRV\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





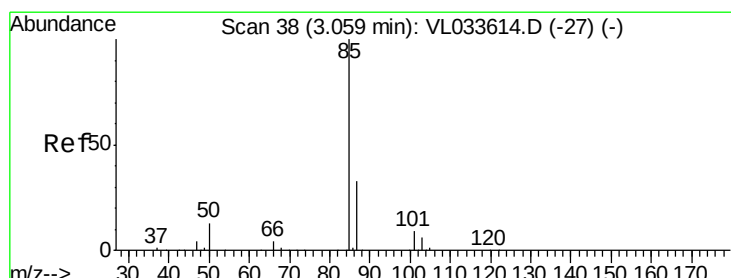
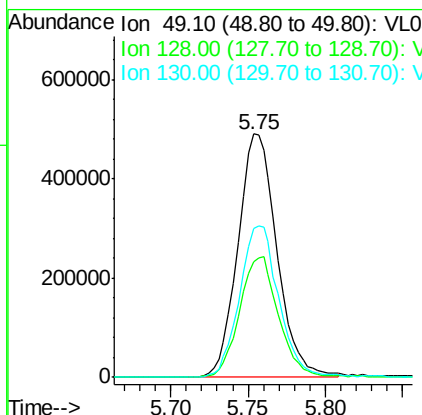
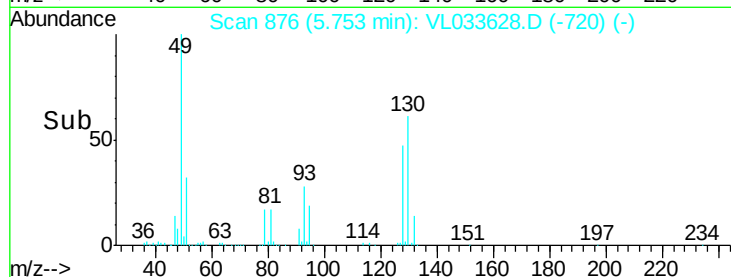
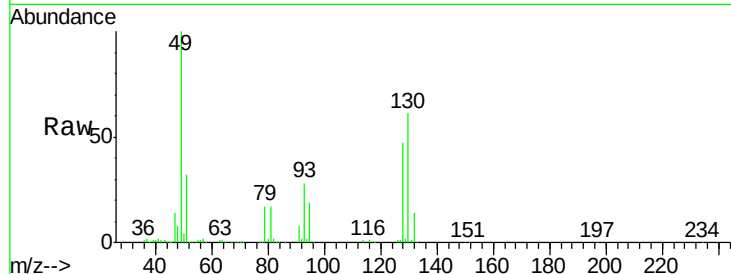
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.75 min Scan# 876
 Delta R.T. -0.00 min
 Lab File: VL033628.D
 Acq: 2 May 2019 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

Tot Ion:	49	Resp:	861201
Ion	Ratio	Lower	Upper
49	100		
128	50.1	25.0	75.0
130	63.4	31.9	95.9

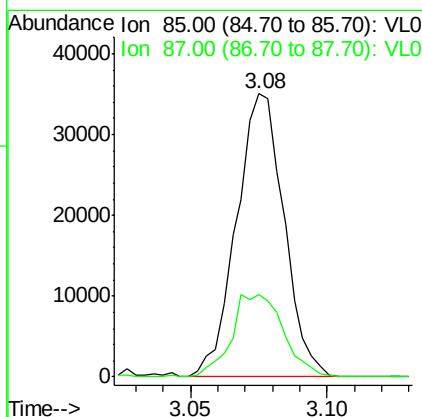
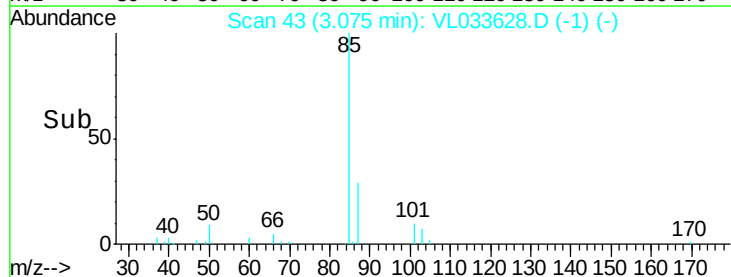
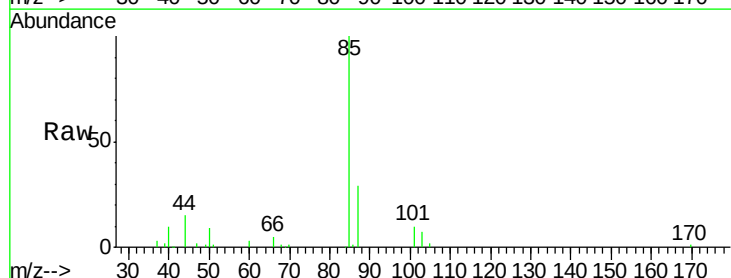
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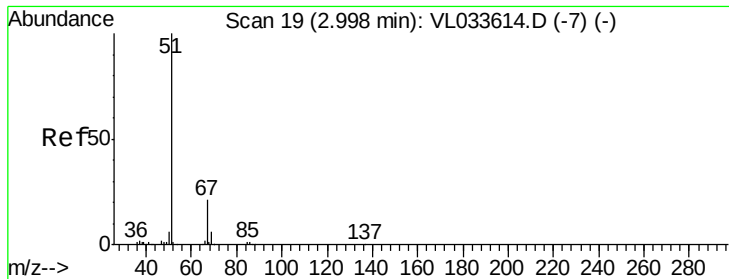
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#2
 Dichlorodifluoromethane
 Concen: 0.326 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.02 min
 Lab File: VL033628.D
 Acq: 2 May 2019 15:01

Tgt Ion:	85	Resp:	42253
Ion	Ratio	Lower	Upper
85	100		
87	29.1	26.8	40.2





#3

Chlorodifluoromethane

Concen: 0.336 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.01 min

Lab File: VL033628.D

Acq: 2 May 2019 15:01

Instrument :

MSVOA_L

ClientSampled :

A-1DUP

Tot Ion: 51 Resp: 34590

Ion Ratio Lower Upper

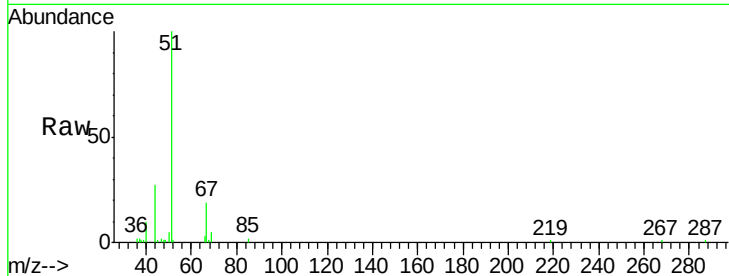
51 100

67 16.9 15.6 23.4

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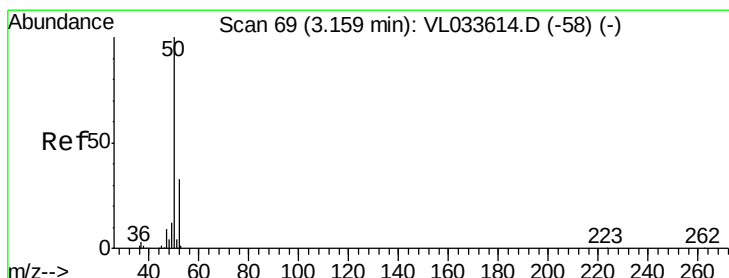
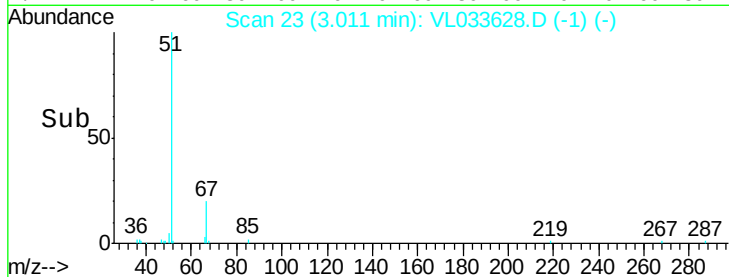
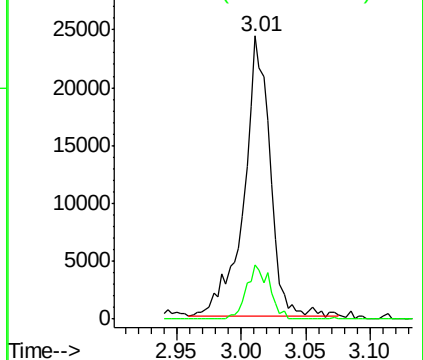
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.556 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL033628.D

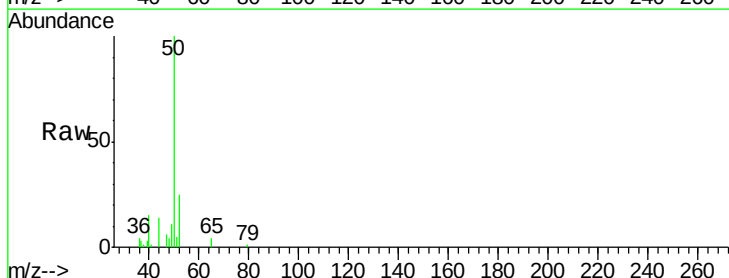
Acq: 2 May 2019 15:01

Tgt Ion: 50 Resp: 31180

Ion Ratio Lower Upper

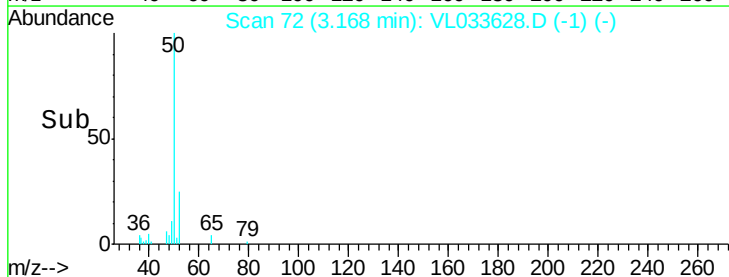
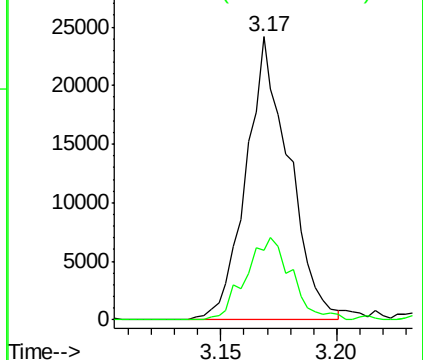
50 100

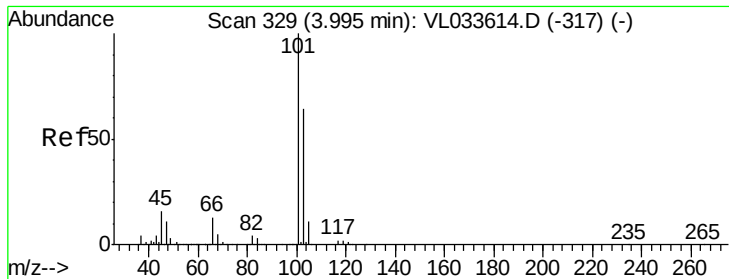
52 24.6 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





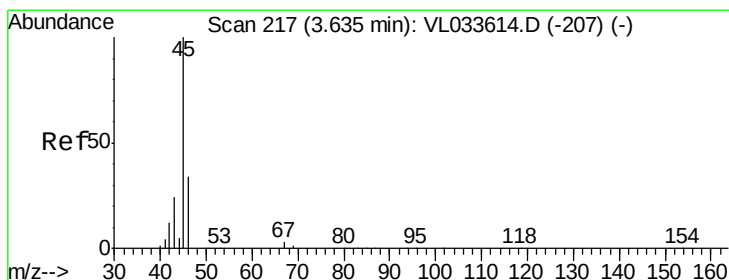
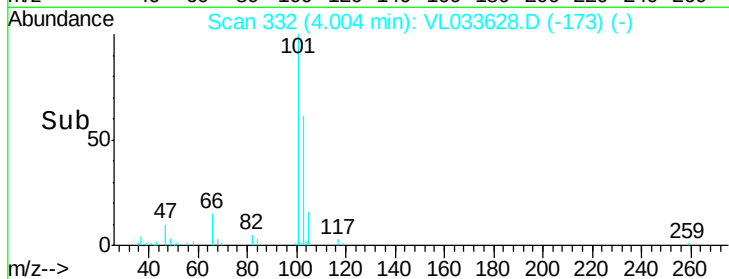
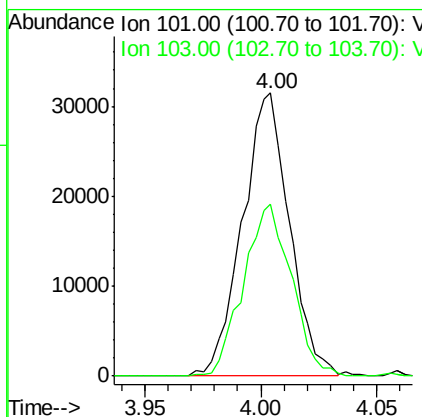
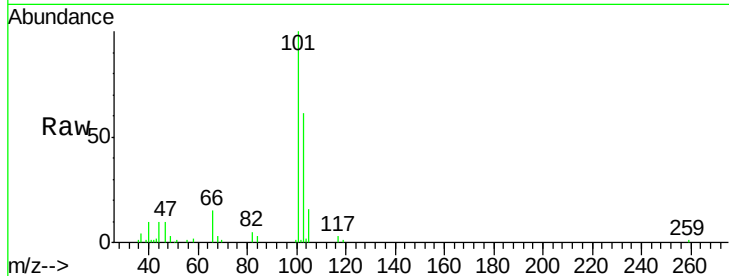
#11
Trichlorofluoromethane
Concen: 0.288 ppbv
RT: 4.00 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

Tot Ion:101 Resp: 44470
Ion Ratio Lower Upper
101 100
103 60.8 51.2 76.8

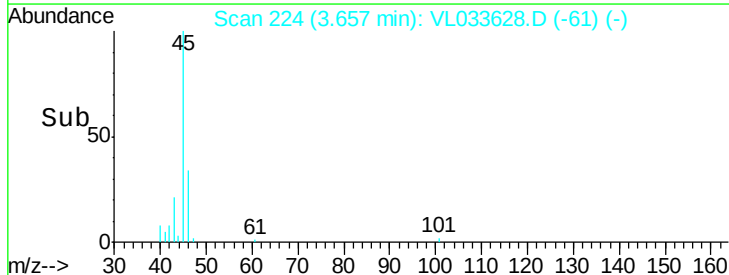
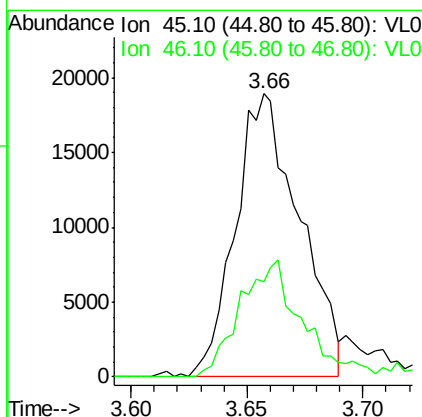
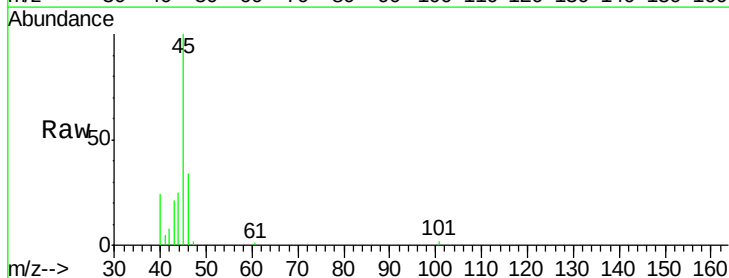
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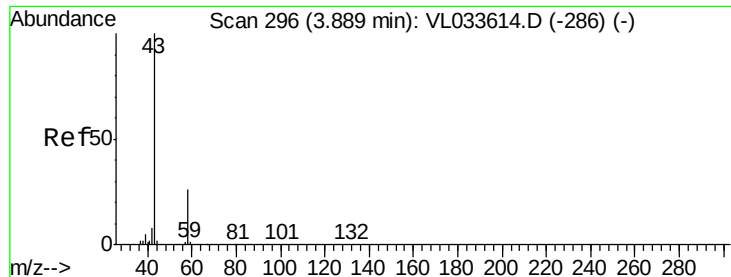
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#13
Ethanol
Concen: 2.720 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.02 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

Tgt Ion: 45 Resp: 36359
Ion Ratio Lower Upper
45 100
46 41.0 14.6 58.2





#15

Acetone

Concen: 2.045 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033628.D

Acq: 2 May 2019 15:01

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion: 43 Resp: 214427

Ion Ratio Lower Upper

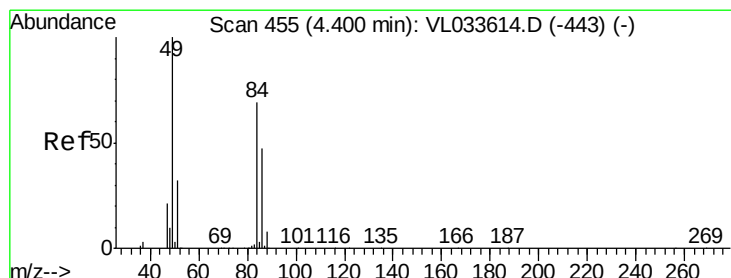
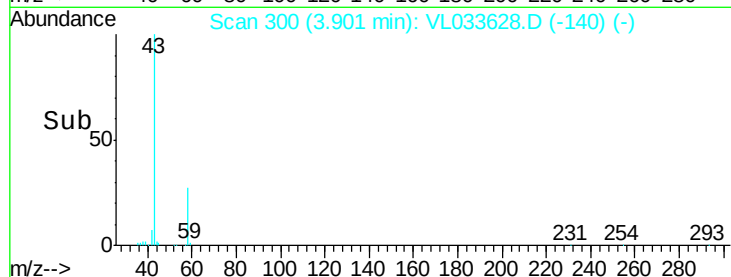
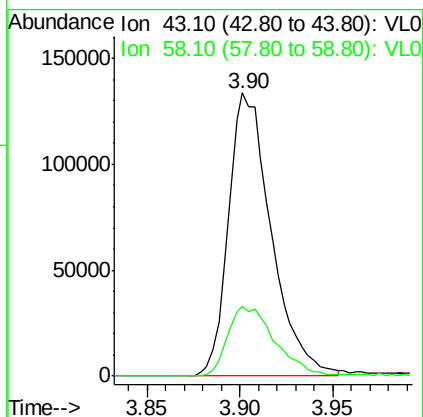
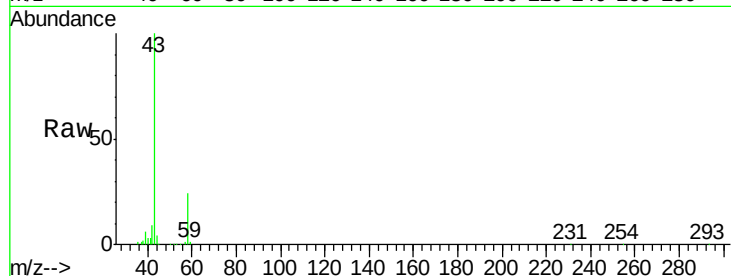
43 100

58 27.4 21.2 31.8

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#20

Methylene Chloride

Concen: 1.608 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033628.D

Acq: 2 May 2019 15:01

Tgt Ion: 84 Resp: 65721

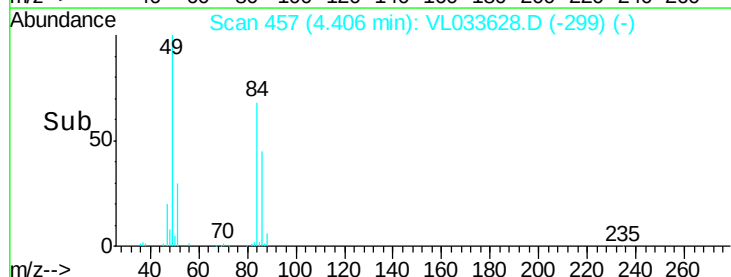
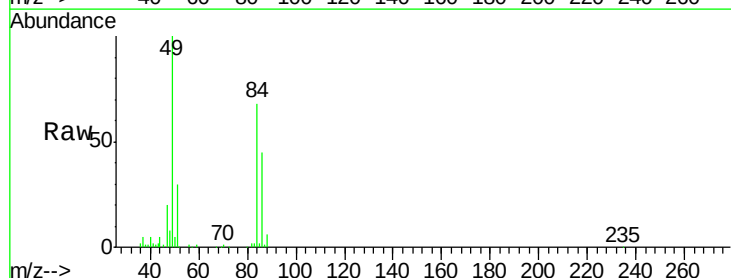
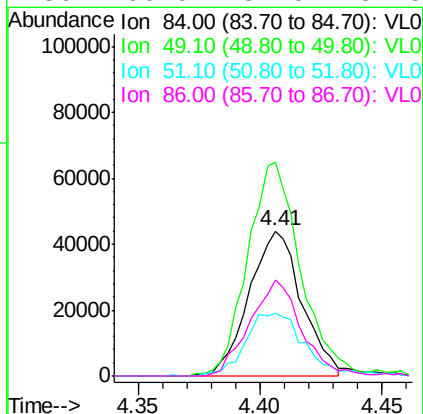
Ion Ratio Lower Upper

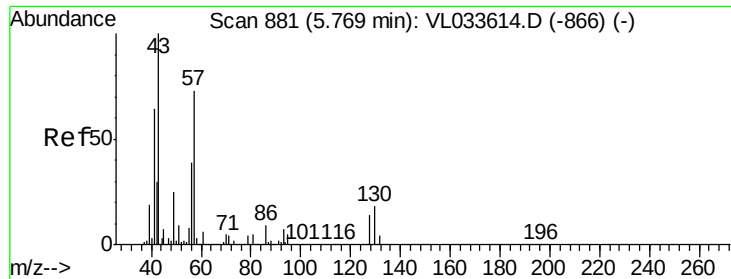
84 100

49 147.0 116.2 174.2

51 44.1 37.0 55.6

86 66.0 54.0 81.0





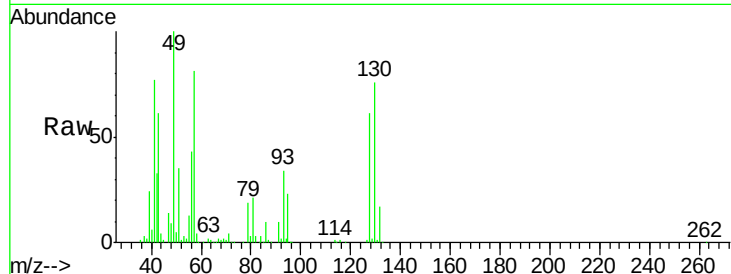
#26
Hexane
Concen: 1.706 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

Instrument :
MSVOA_L
ClientSampled :
A-1DUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		142925		
41	97.4	70.6	106.0		
43	75.2	186.0	279.0		
56	56.4	42.7	64.1		

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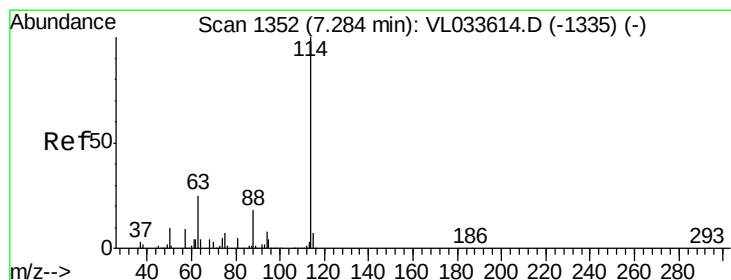
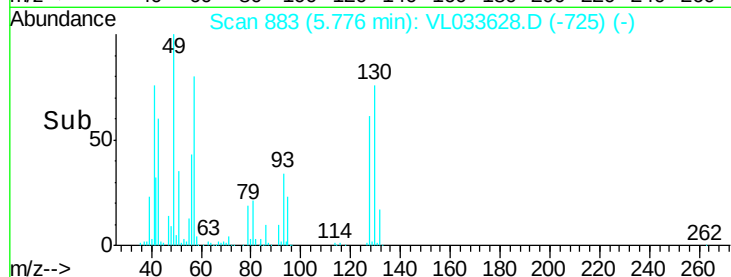
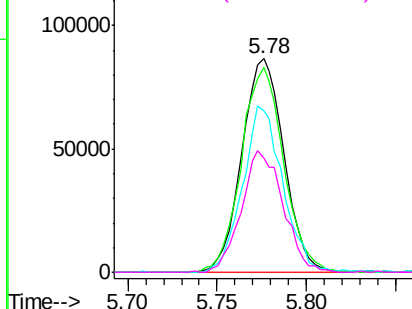


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

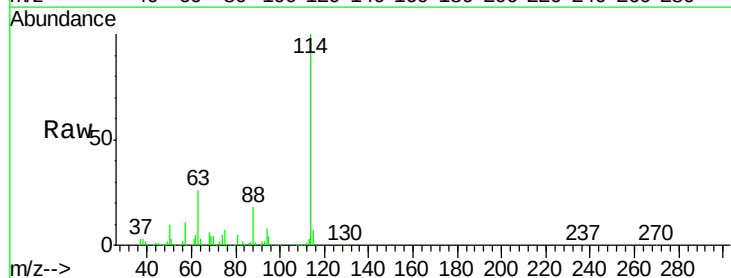
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

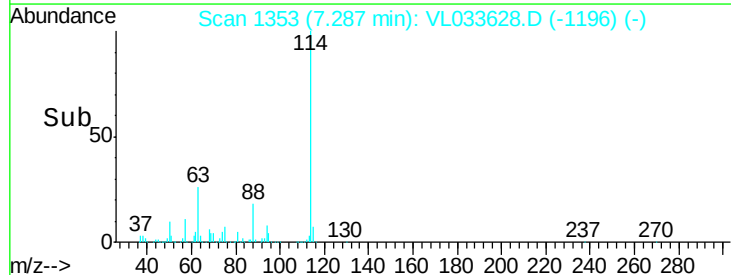
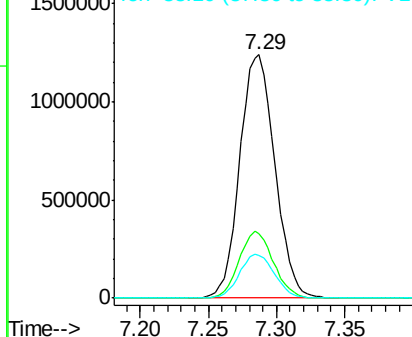
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
114	100		2213373		
63	26.7	21.1	31.7		
88	18.1	14.2	21.4		

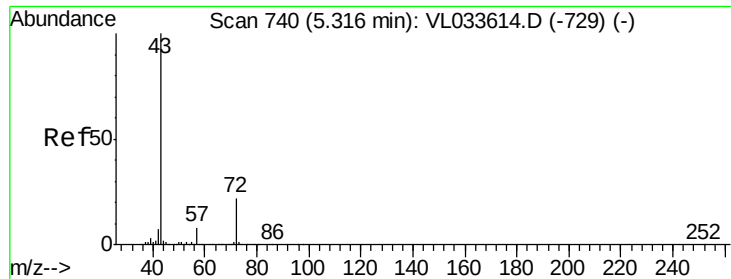


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.145 ppbv m

RT: 5.34 min Scan# 748

Delta R.T. 0.03 min

Lab File: VL033628.D

Acq: 2 May 2019 15:01

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion: 43 Resp: 19643

Ion Ratio Lower Upper

43 100

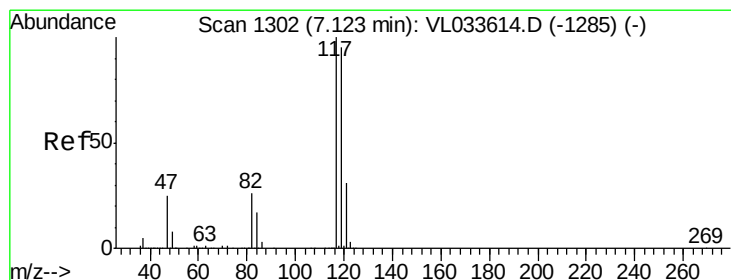
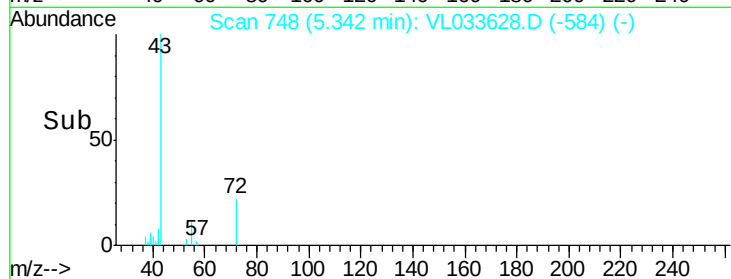
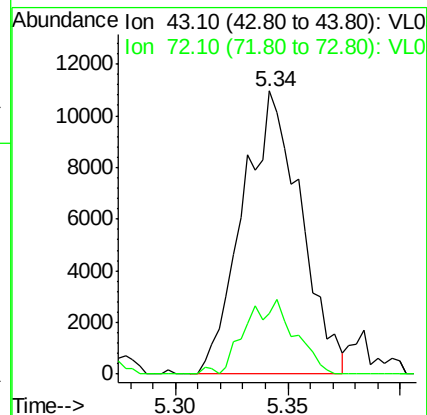
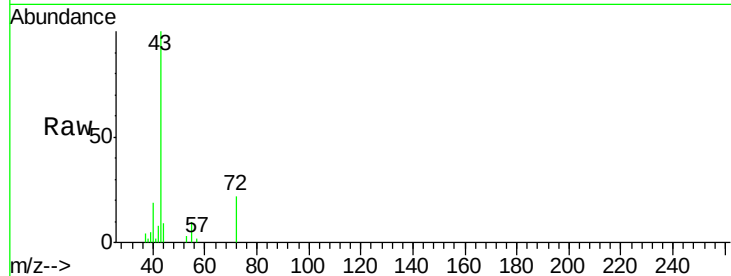
72 0.0 17.8 26.8#

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. 0.01 min

Lab File: VL033628.D

Acq: 2 May 2019 15:01

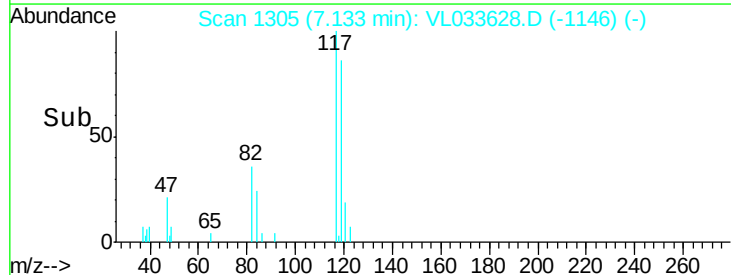
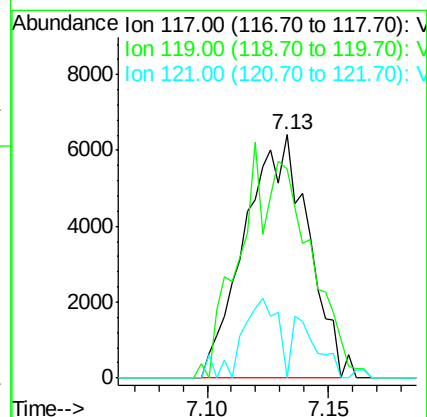
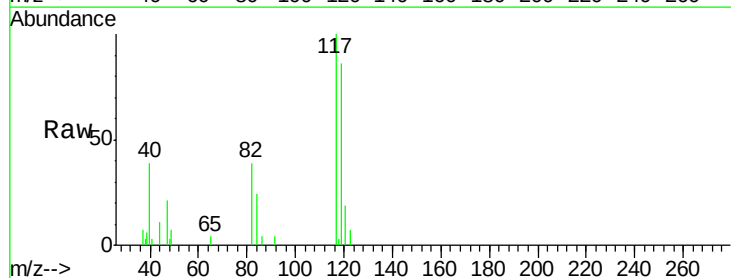
Tgt Ion: 117 Resp: 11560

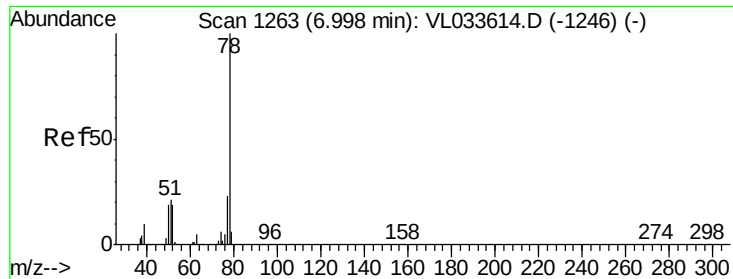
Ion Ratio Lower Upper

117 100

119 86.0 76.2 114.4

121 0.0 24.9 37.3#





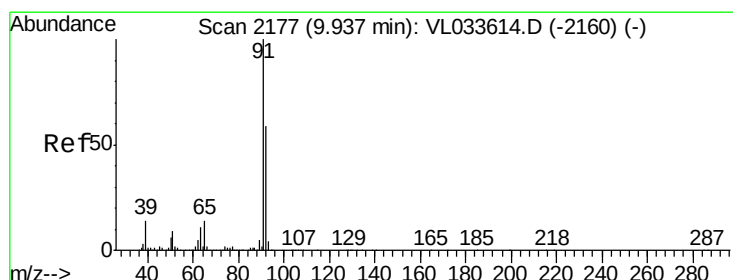
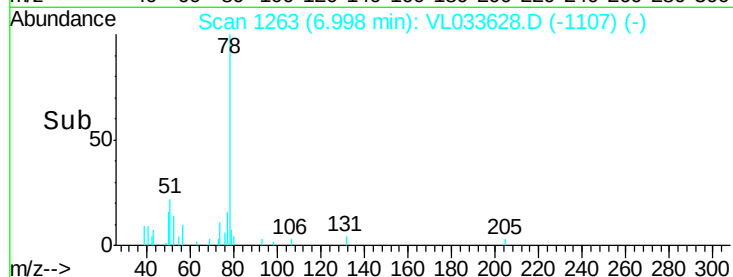
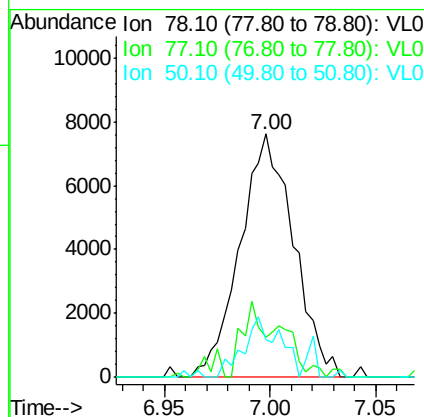
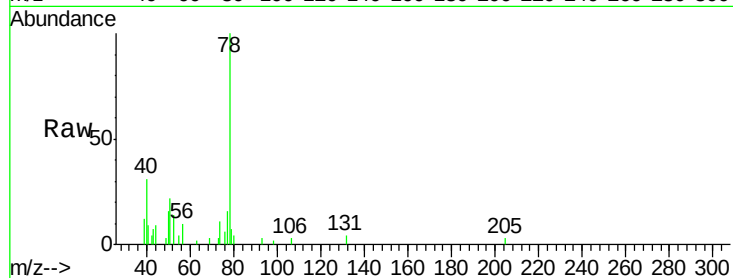
#36
Benzene
Concen: 0.071 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.2	18.1	27.1#
50	37.3	15.1	22.7#

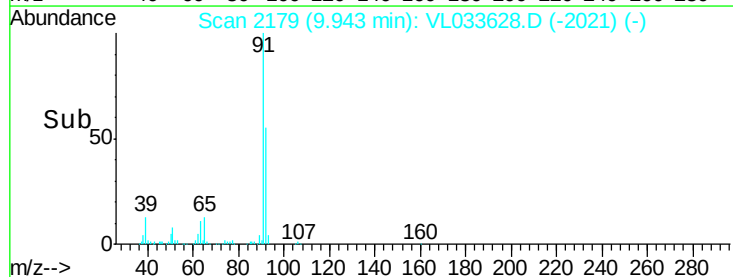
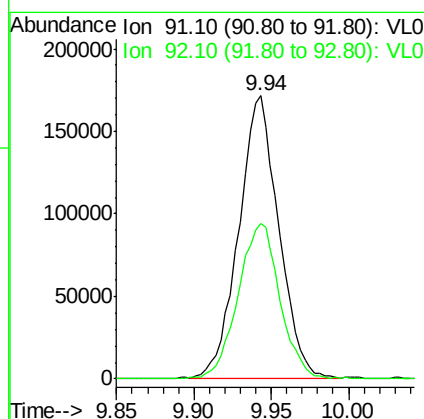
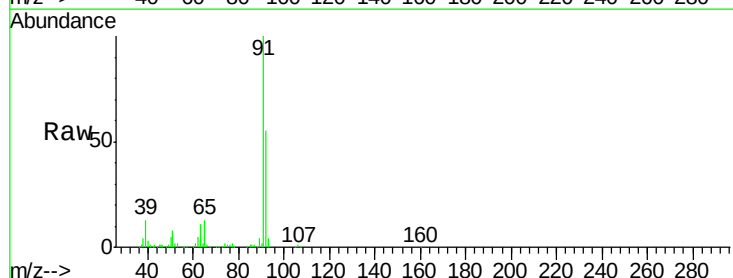
Manual Integrations
APPROVED

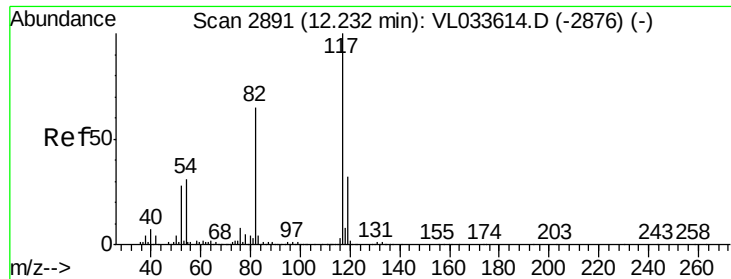
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#53
Toluene
Concen: 1.287 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. 0.01 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.1	47.8	71.6





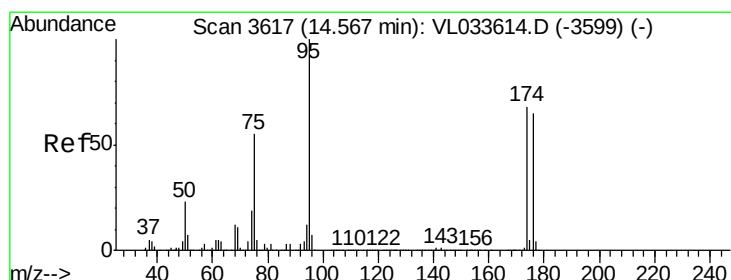
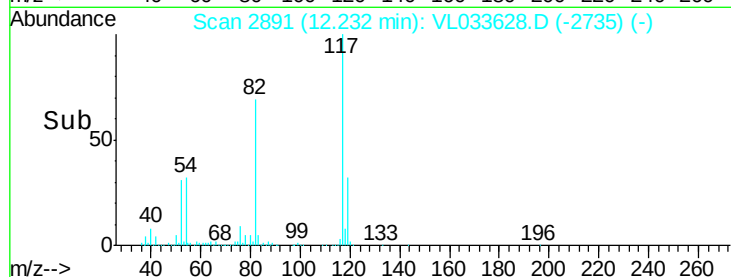
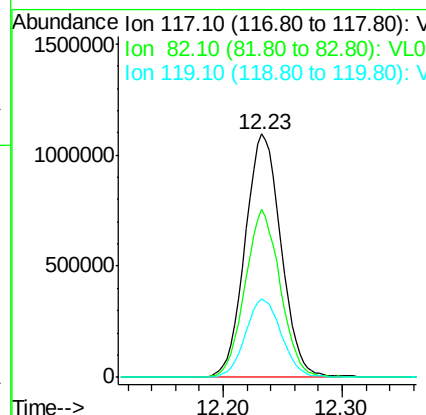
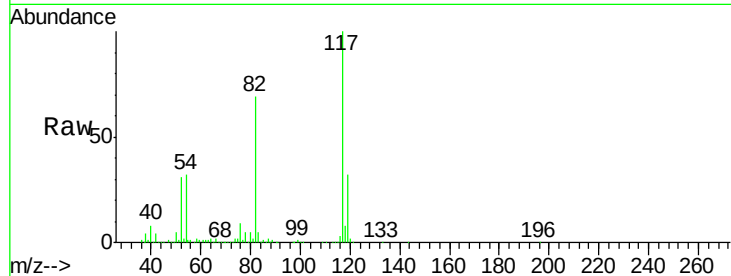
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.00 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

Instrument :
MSVOA_L
ClientSampled :
A-1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.0	52.6	78.8
119	32.5	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:28 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.272 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. 0.00 min
Lab File: VL033628.D
Acq: 2 May 2019 15:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.4	53.9	80.9
175	4.8	4.0	6.0

