

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033744.D
 Acq On : 22 May 2019 14:49
 Operator : SY/AP
 Sample : K2926-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB202-AIR-UW-20190515DUP

Manual Integrations
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MMDadoda
 5/28/2019 2:50:47 AM

Quant Time: May 23 04:57:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	847139	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1947007	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2100983	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.56	95	1630298	9.57	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	30233	0.169	ppbv	94
3) Chlorodifluoromethane	3.01	51	25782m	0.266	ppbv	
4) Chloromethane	3.17	50	30710	0.553	ppbv	91
9) Propene	3.05	41	38865m	0.942	ppbv	
11) Trichlorofluoromethane	4.00	101	43976	0.258	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	67151	0.564	ppbv	99
13) Ethanol	3.65	45	557390	41.783	ppbv	99
15) Acetone	3.89	43	401517m	3.416	ppbv	
19) Isopropyl Alcohol	4.03	45	97769	1.290	ppbv #	90
20) Methylene Chloride	4.40	84	157046	3.470	ppbv	93
26) Hexane	5.77	57	237697	2.678	ppbv #	44
34) 2-Butanone	5.33	43	39673m	0.329	ppbv	
35) Carbon Tetrachloride	7.12	117	11773m	0.075	ppbv	
38) Trichloroethene	7.95	130	9399m	0.143	ppbv	
53) Toluene	9.93	91	272351	1.426	ppbv	97

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

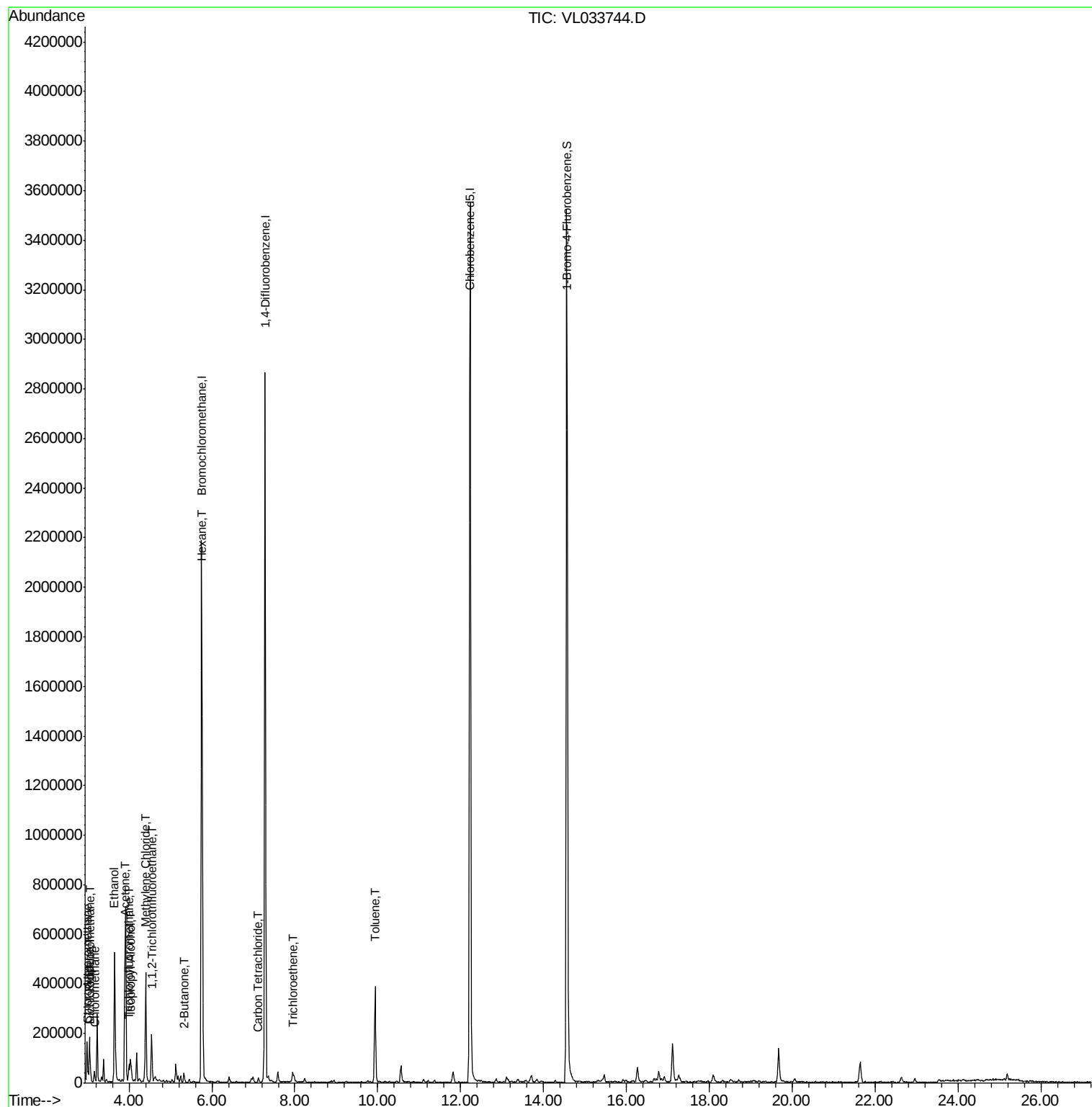
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052219\
Data File : VL033744.D
Acq On : 22 May 2019 14:49
Operator : SY/AP
Sample : K2926-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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BP-VPB202-AIR-UW-20190515DUP

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5/28/2019 2:50:47 AM

Quant Time: May 23 04:57:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

Instrument :

MSVOA_L

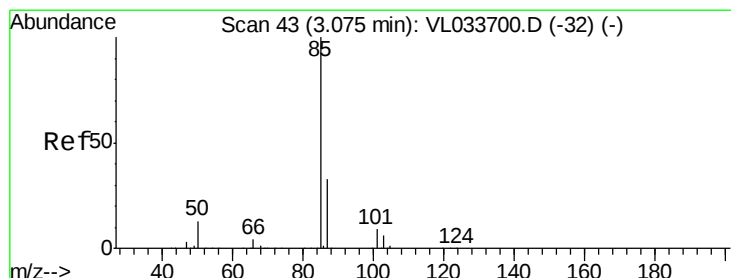
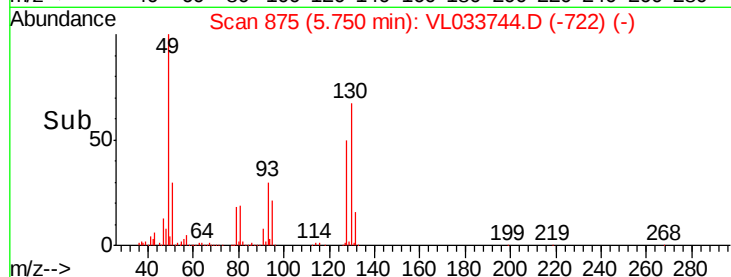
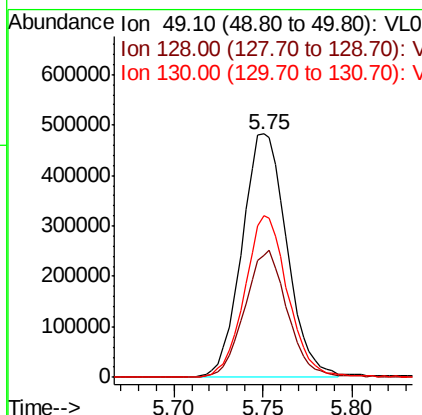
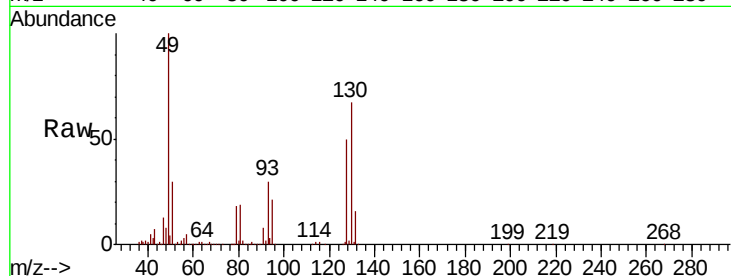
ClientSampleId :

BP-VPB202-AIR-UW-20190515DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.8	25.2	75.6
130	64.2	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 0.169 ppbv

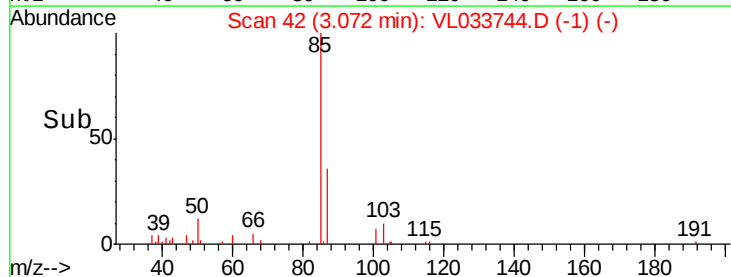
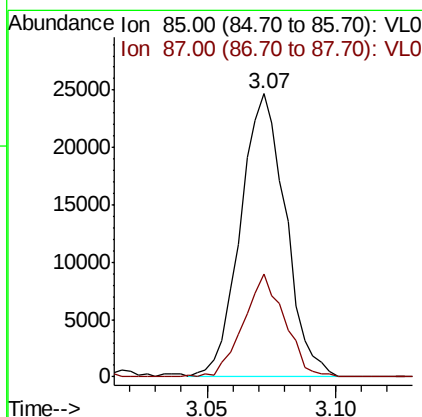
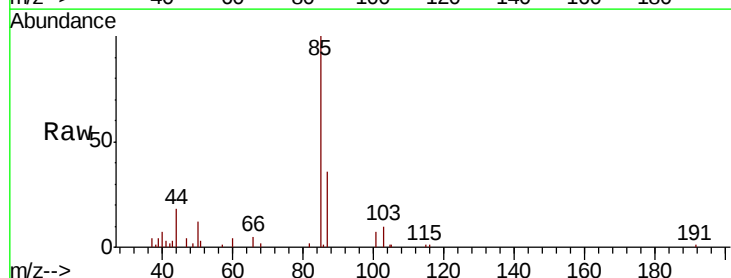
RT: 3.07 min Scan# 42

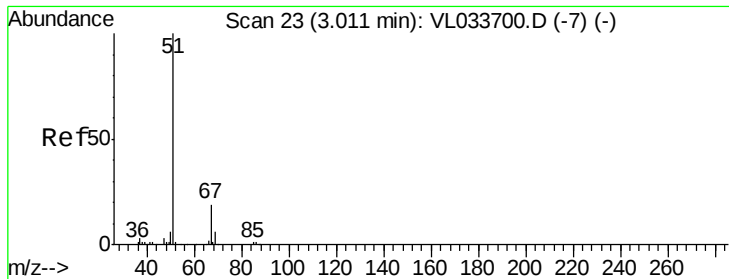
Delta R.T. -0.00 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

Tgt Ion	Ratio	Lower	Upper
85	100		
87	36.2	26.3	39.5





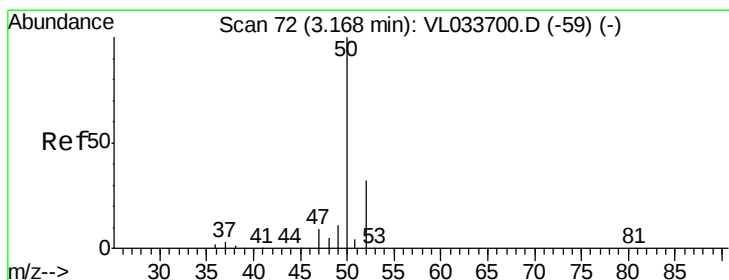
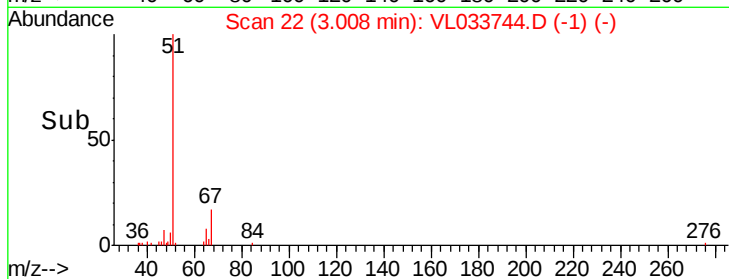
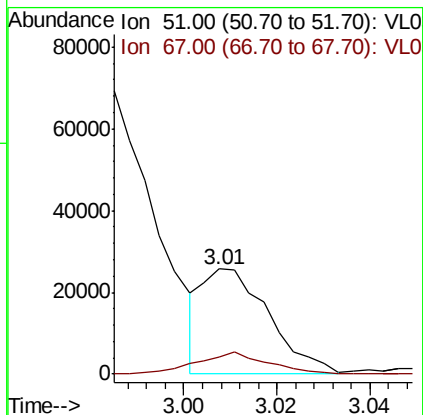
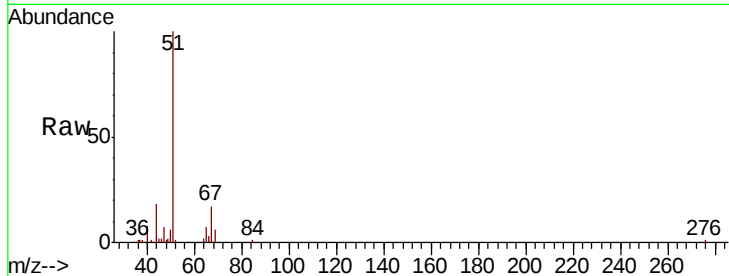
#3
Chlorodifluoromethane
Concen: 0.266 ppbv
RT: 3.01 min Scan# 22
Delta R.T. -0.00 min
Lab File: VL033744.D
Acq: 22 May 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
BP-VPB202-AIR-UW-20190515DUP

Tot Ion: 51 Resp: 25782
Ion Ratio Lower Upper
51 100
67 22.7 15.6 23.4

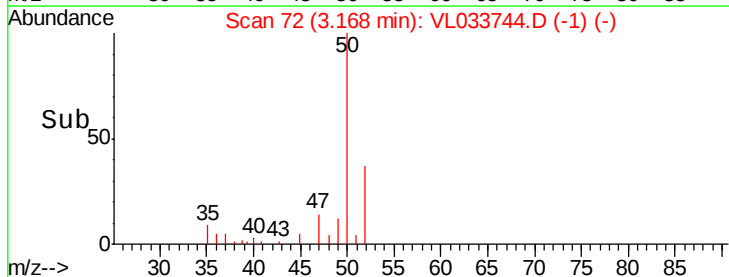
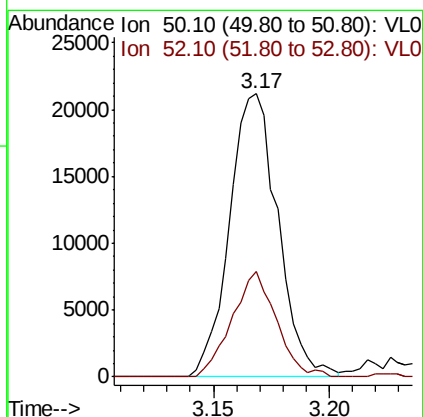
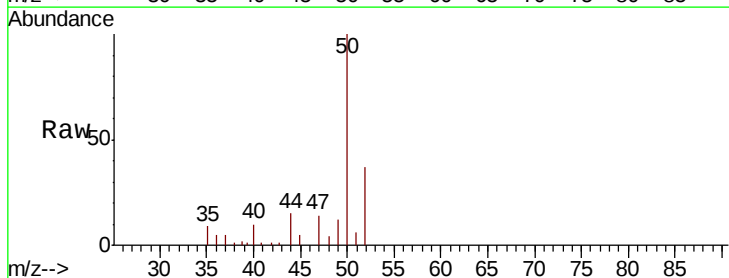
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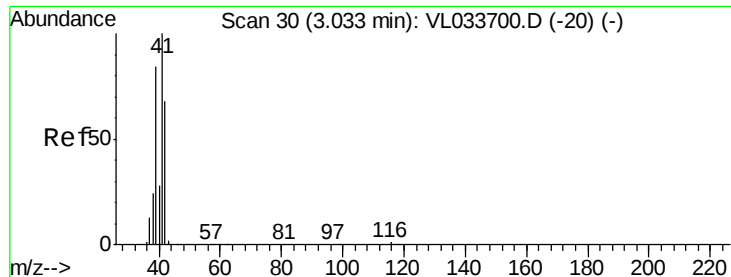
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#4
Chloromethane
Concen: 0.553 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033744.D
Acq: 22 May 2019 14:49

Tgt Ion: 50 Resp: 30710
Ion Ratio Lower Upper
50 100
52 37.2 25.7 38.5





#9

Propene

Concen: 0.942 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-UW-20190515DUP

Tot Ion: 41 Resp: 38865

Ion Ratio Lower Upper

41 100

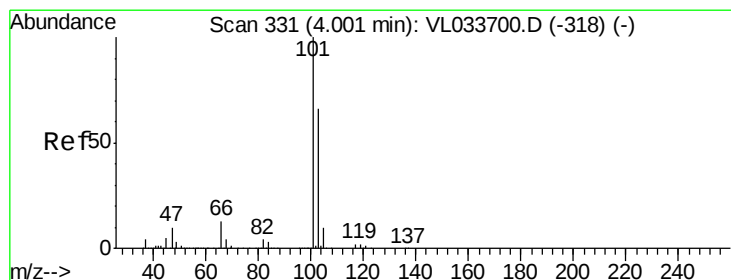
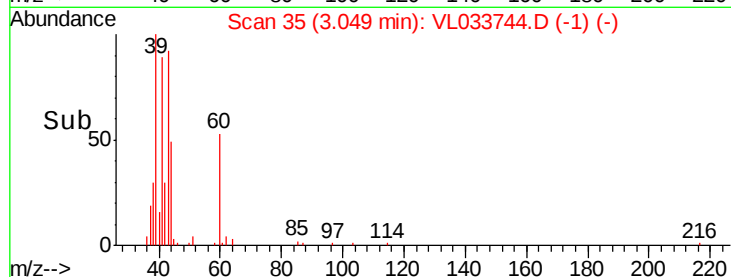
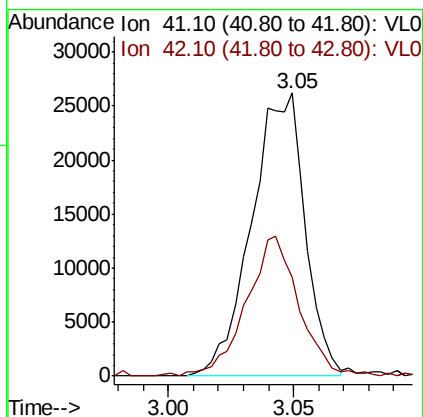
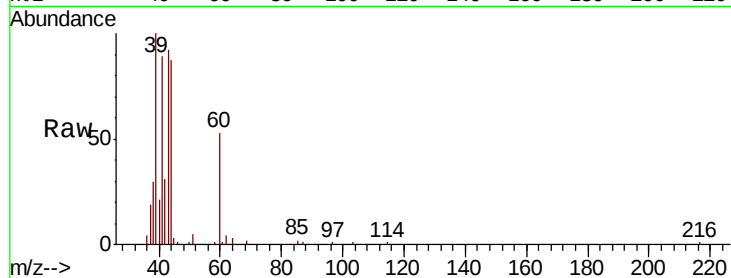
42 48.8 56.1 84.1#

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#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL033744.D

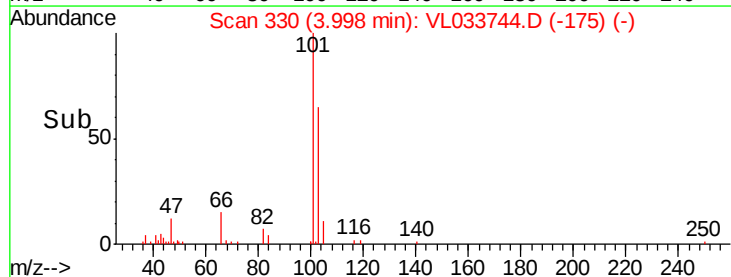
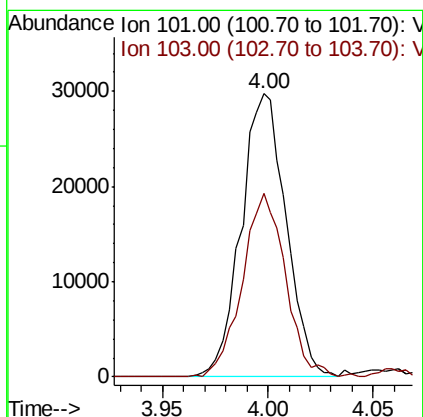
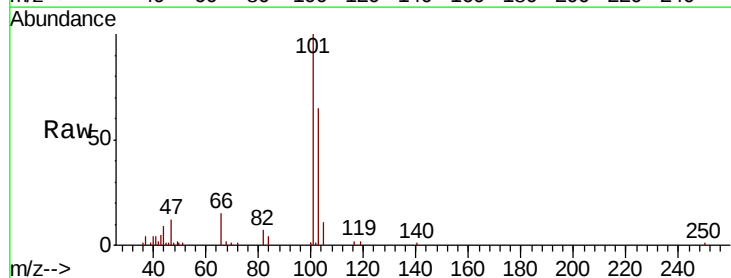
Acq: 22 May 2019 14:49

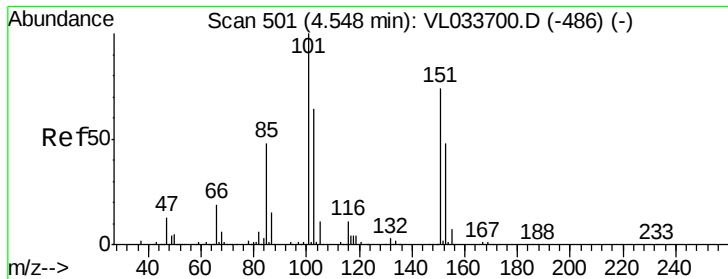
Tgt Ion: 101 Resp: 43976

Ion Ratio Lower Upper

101 100

103 64.8 52.6 78.8





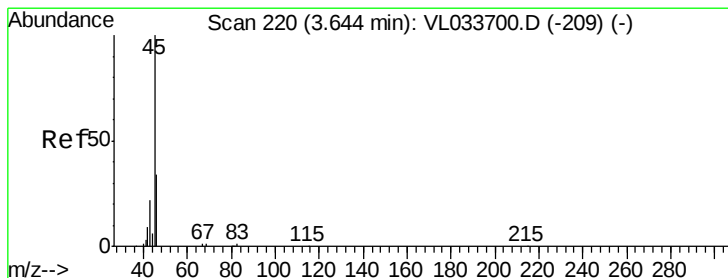
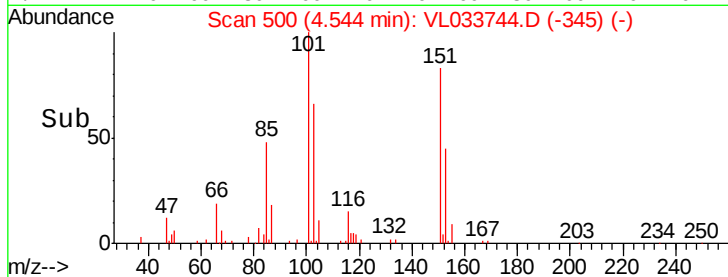
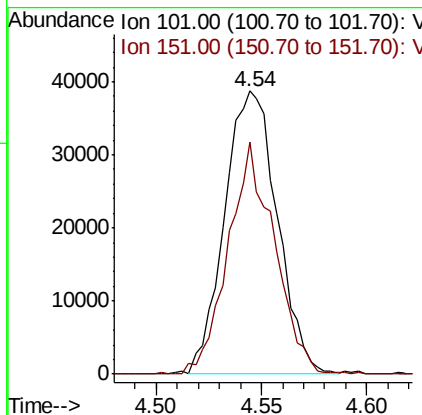
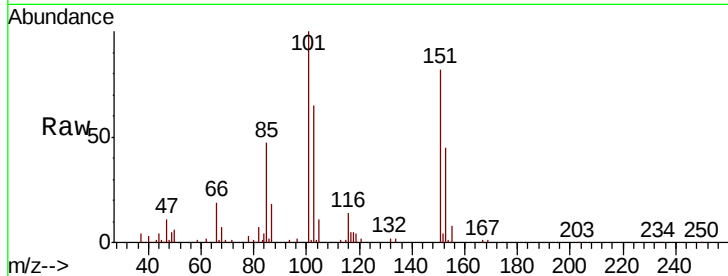
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.564 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL033744.D
 Acq: 22 May 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB202-AIR-UW-20190515DUP

Tot Ion:101 Resp: 67151
 Ion Ratio Lower Upper
 101 100
 151 72.1 58.2 87.4

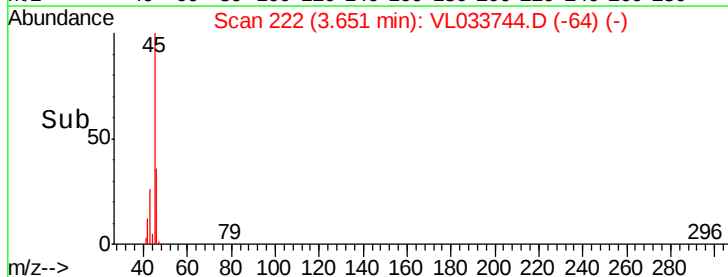
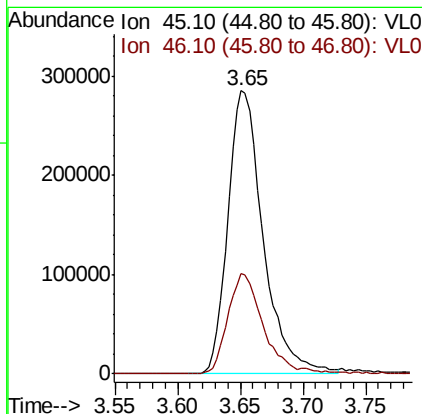
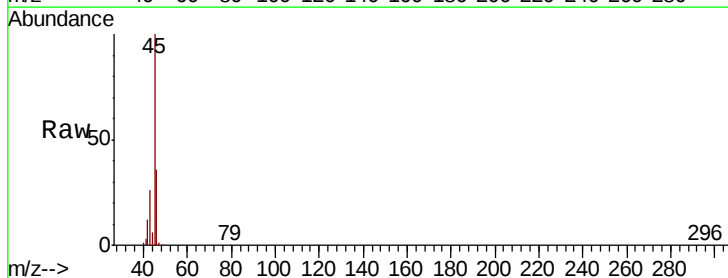
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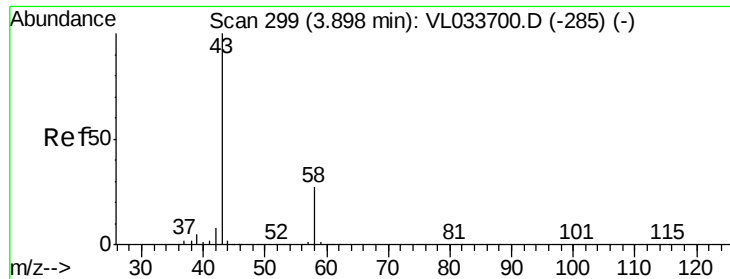
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#13
 Ethanol
 Concen: 41.783 ppbv
 RT: 3.65 min Scan# 222
 Delta R.T. 0.01 min
 Lab File: VL033744.D
 Acq: 22 May 2019 14:49

Tgt Ion: 45 Resp: 557390
 Ion Ratio Lower Upper
 45 100
 46 36.4 14.8 59.0





#15

Acetone

Concen: 3.416 ppbv m

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-UW-20190515DUP

Tot Ion: 43 Resp: 401517

Ion Ratio Lower Upper

43 100

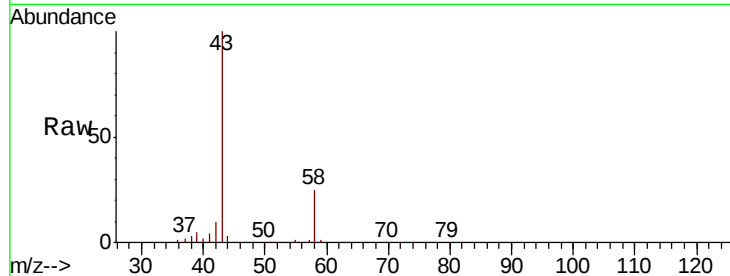
58 29.6 21.3 31.9

Manual Integrations

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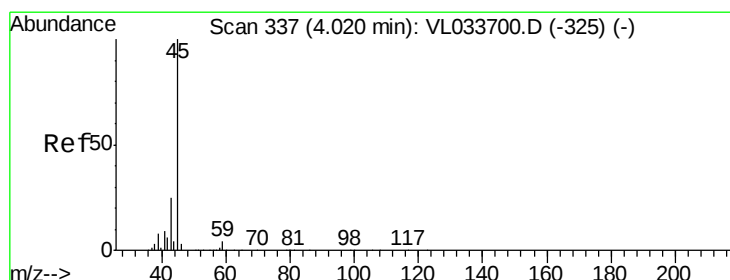
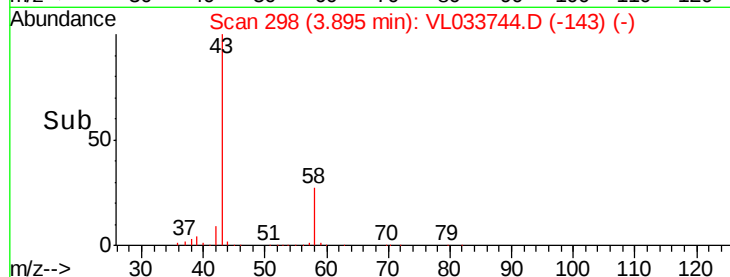
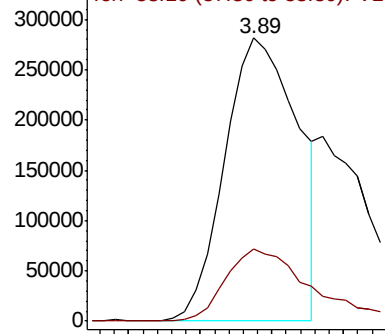
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 1.290 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033744.D

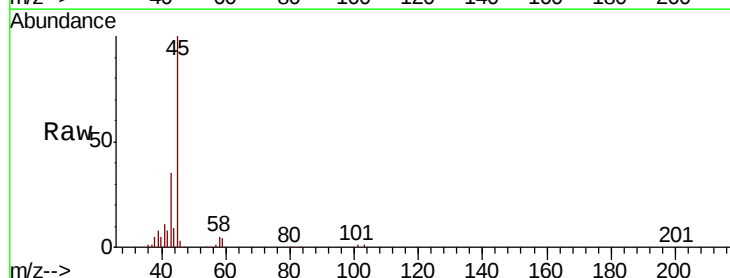
Acq: 22 May 2019 14:49

Tgt Ion: 45 Resp: 97769

Ion Ratio Lower Upper

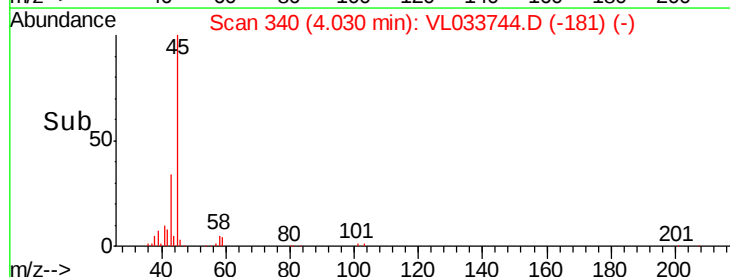
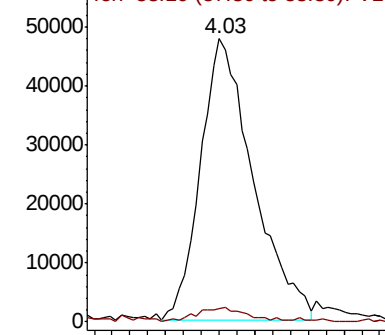
45 100

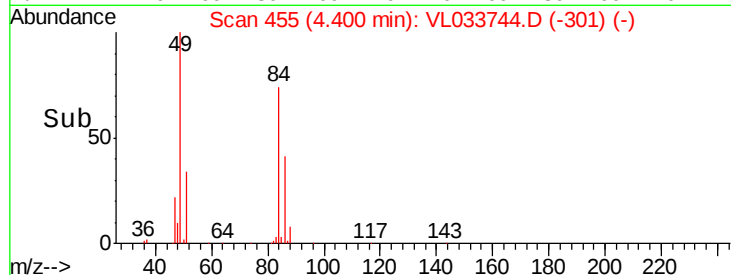
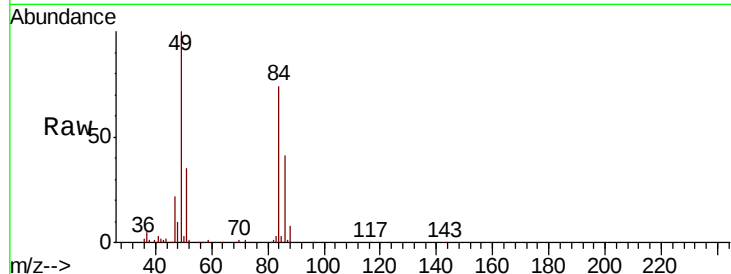
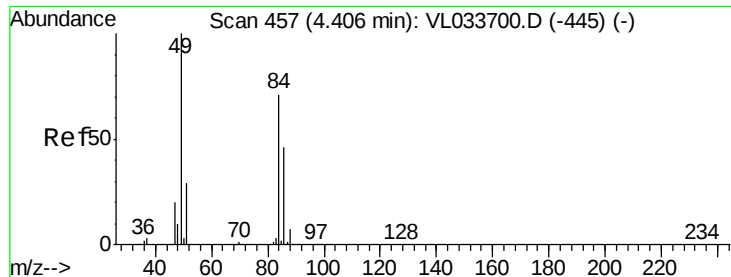
58 5.6 1.6 2.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





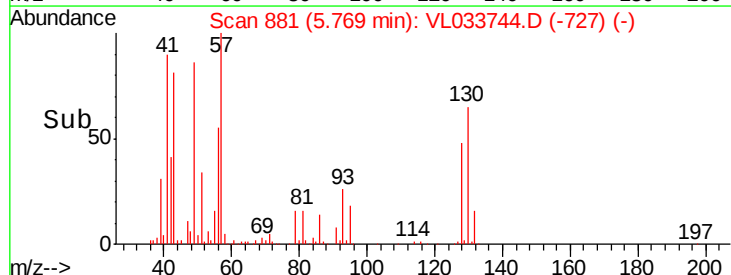
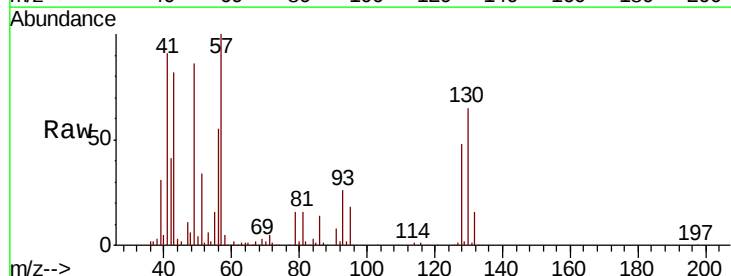
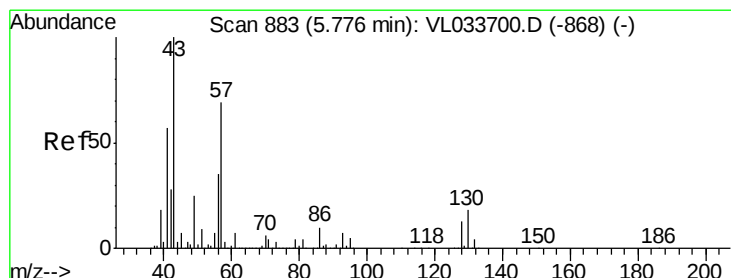
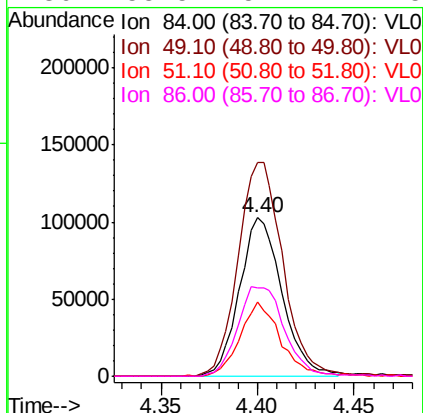
#20
Methvlene Chloride
Concen: 3.470 ppbv
RT: 4.40 min Scan# 455
Delta R.T. -0.01 min
Lab File: VL033744.D
Acq: 22 May 2019 14:49

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	134.3		112.8	169.2	
51	46.1		33.4	50.0	
86	55.5		51.7	77.5	

Instrument :
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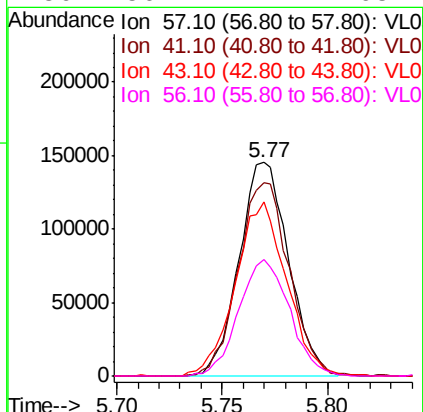
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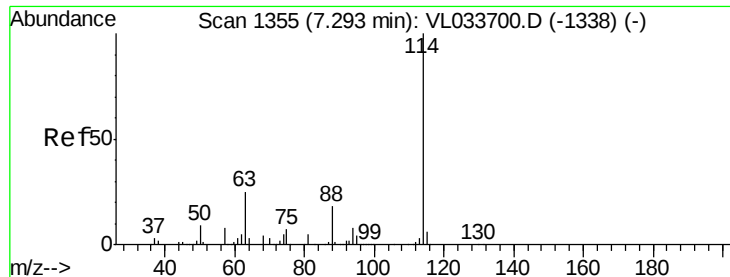
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#26
Hexane
Concen: 2.678 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033744.D
Acq: 22 May 2019 14:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	93.8		69.8	104.6	
43	84.4		181.8	272.6	
56	56.1		42.1	63.1	





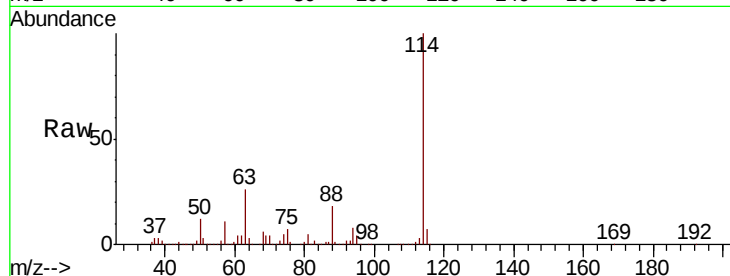
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033744.D
 Acq: 22 May 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB202-AIR-UW-20190515DUP

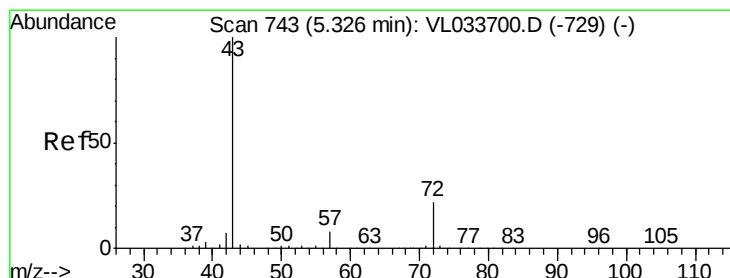
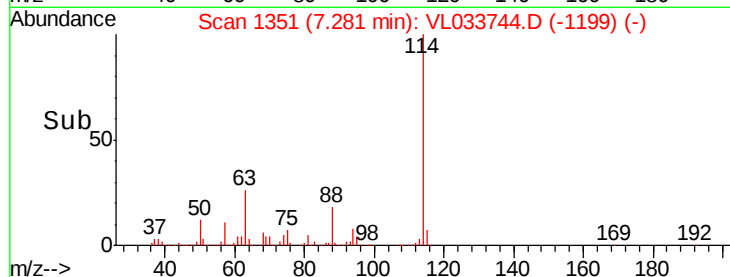
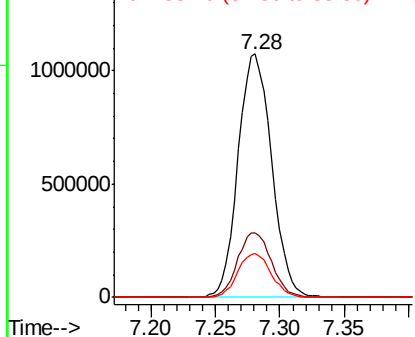
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	20.9	31.3
88	17.9	14.3	21.5

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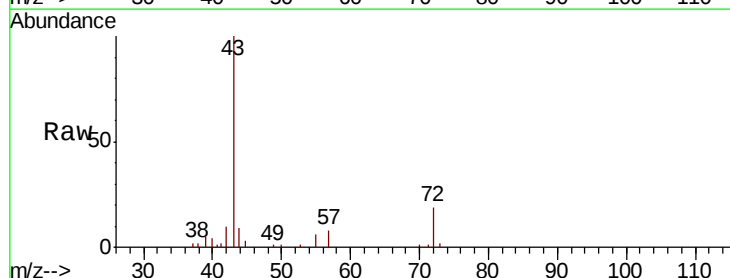


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

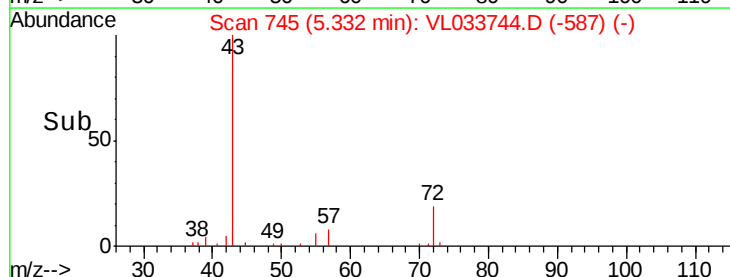
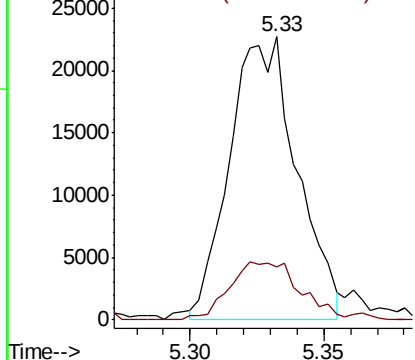


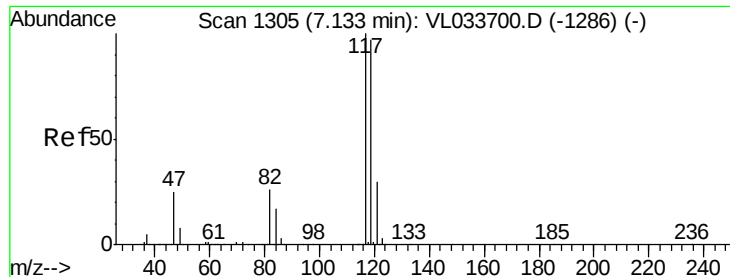
#34
 2-Butanone
 Concen: 0.329 ppbv m
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033744.D
 Acq: 22 May 2019 14:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.6	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: 0.075 ppbv m

RT: 7.12 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

Instrument :

MSVOA_L

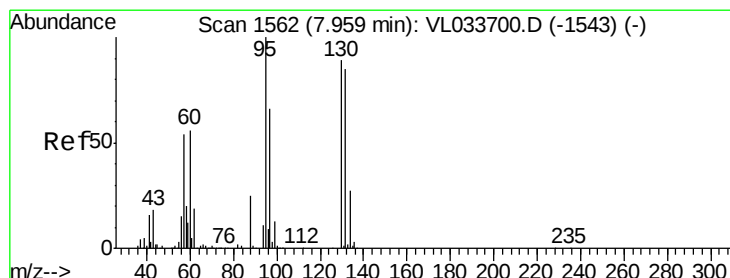
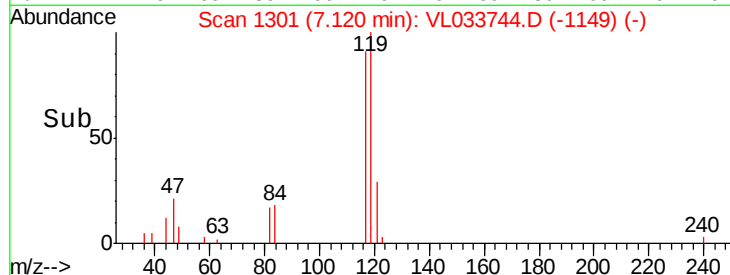
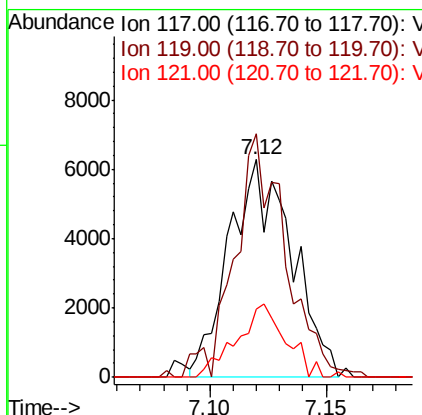
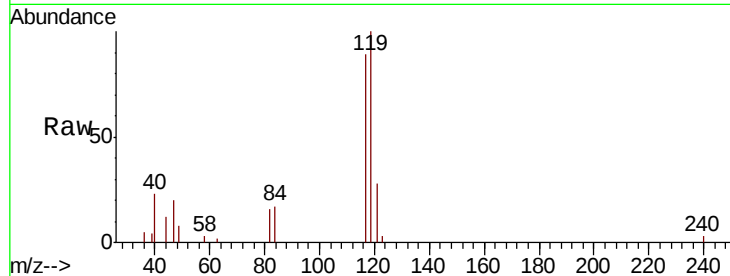
ClientSampleId :

BP-VPB202-AIR-UW-20190515DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	111.9	77.2	115.8
121	31.5	24.1	36.1

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#38

Trichloroethene

Concen: 0.143 ppbv m

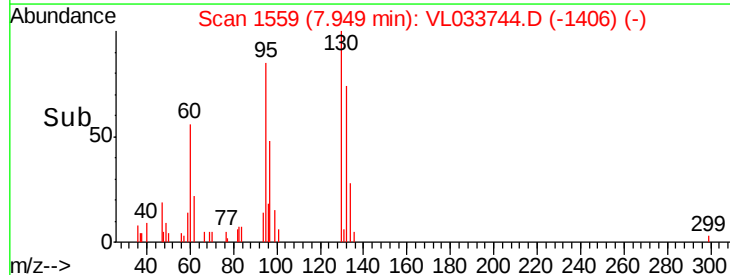
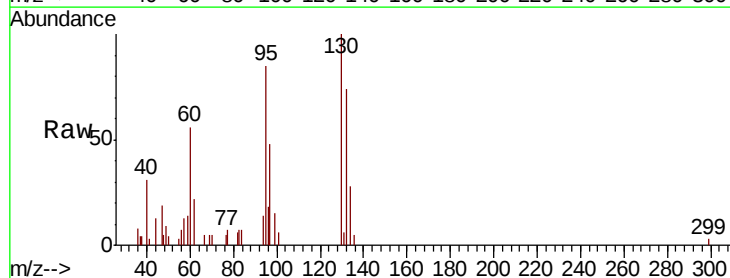
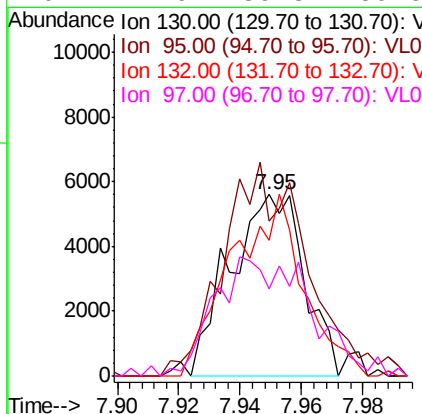
RT: 7.95 min Scan# 1559

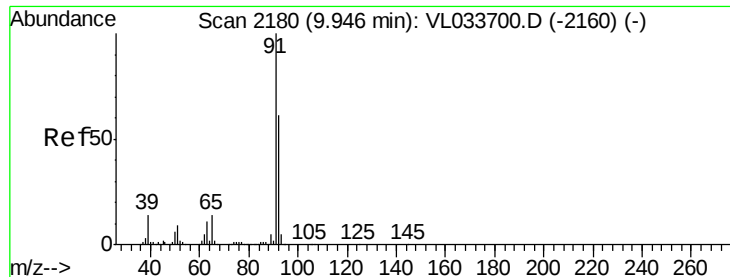
Delta R.T. -0.01 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

Tgt Ion	Ratio	Lower	Upper
130	100		
95	85.0	90.2	135.4#
132	74.4	76.4	114.6#
97	47.9	59.8	89.6#





#53

Toluene

Concen: 1.426 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-UW-20190515DUP

Tot Ion: 91 Resp: 272351

Ion Ratio Lower Upper

91 100

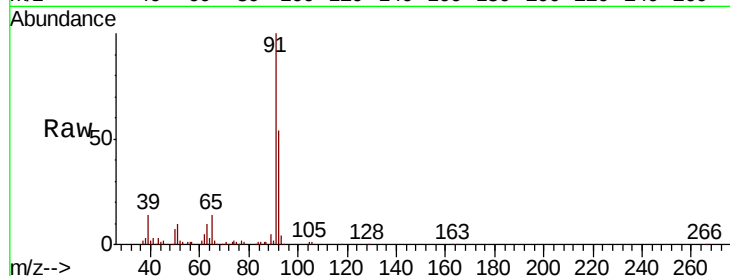
92 57.5 47.6 71.4

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

150000

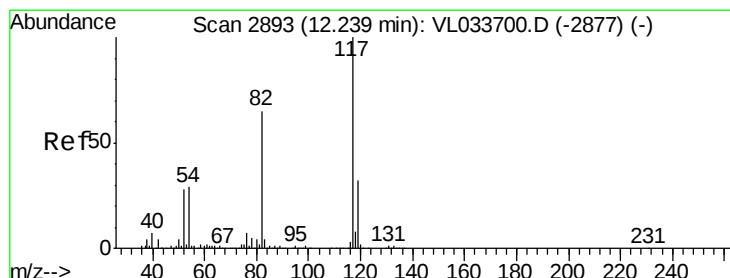
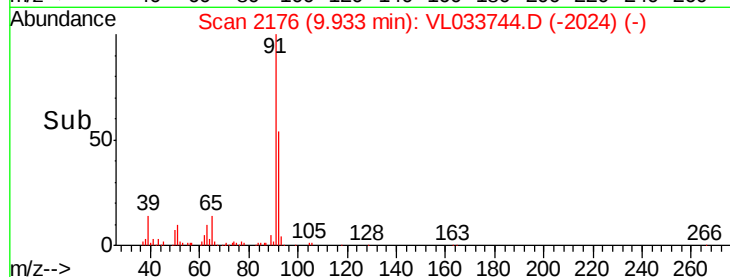
100000

50000

0

9.85 9.90 9.95 10.00

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033744.D

Acq: 22 May 2019 14:49

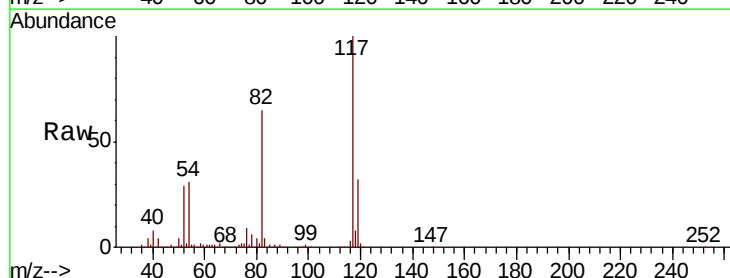
Tgt Ion: 117 Resp: 2100983

Ion Ratio Lower Upper

117 100

82 68.1 49.4 74.0

119 32.4 24.9 37.3



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

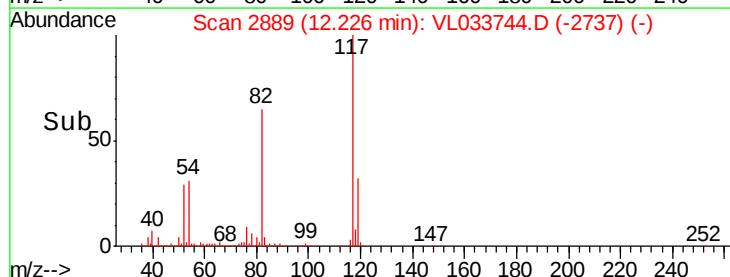
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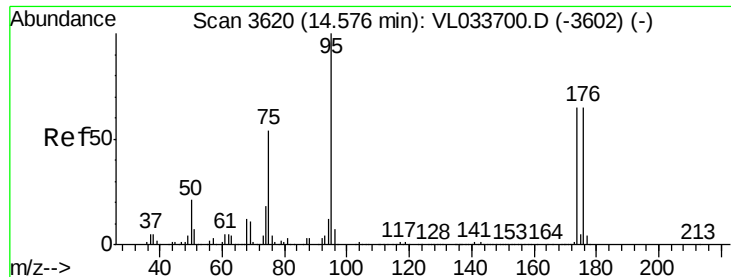
500000

0

12.20 12.23 12.26 12.29

Time-->





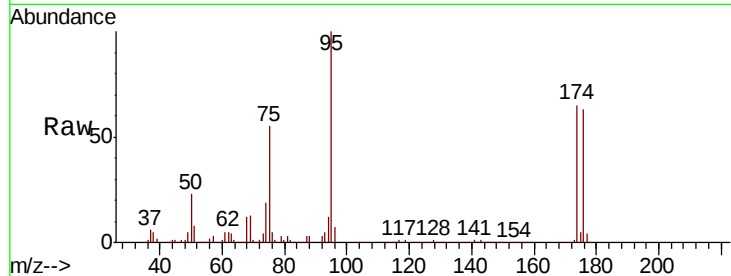
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.572 ppbv
 RT: 14.56 min Scan# 3615
 Delta R.T. -0.02 min
 Lab File: VL033744.D
 Acq: 22 May 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB202-AIR-UW-20190515DUP

Tot Ion: 95 Resp: 1630298
 Ion Ratio Lower Upper
 95 100
 174 66.4 53.9 80.9
 175 4.9 3.8 5.8

Manual Integrations
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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

