

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033745.D
 Acq On : 22 May 2019 15:30
 Operator : SY/AP
 Sample : K2926-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB202-AIR-DW-20190515

Manual Integrations
 APPROVED

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 5/28/2019 2:50:48 AM

Quant Time: May 23 05:02:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 18 2019
 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	865792	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1997921	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2117015	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1647357	9.60	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	33983	0.186	ppbv	92
3) Chlorodifluoromethane	3.01	51	26742m	0.270	ppbv	
4) Chloromethane	3.17	50	30741	0.542	ppbv	92
9) Propene	3.04	41	41869	0.993	ppbv #	77
11) Trichlorofluoromethane	4.00	101	43997	0.253	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.55	101	25380	0.209	ppbv	100
13) Ethanol	3.64	45	239702	17.581	ppbv	98
15) Acetone	3.90	43	227173	1.891	ppbv #	82
20) Methylene Chloride	4.40	84	46197	0.999	ppbv	96
26) Hexane	5.77	57	46113	0.508	ppbv #	52
34) 2-Butanone	5.33	43	28883	0.233	ppbv	100
35) Carbon Tetrachloride	7.12	117	12483m	0.078	ppbv	
38) Trichloroethene	7.95	130	5460	0.081	ppbv #	70
52) Tetrachloroethene	11.36	164	3296m	0.052	ppbv	
53) Toluene	9.93	91	280352	1.430	ppbv	98

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

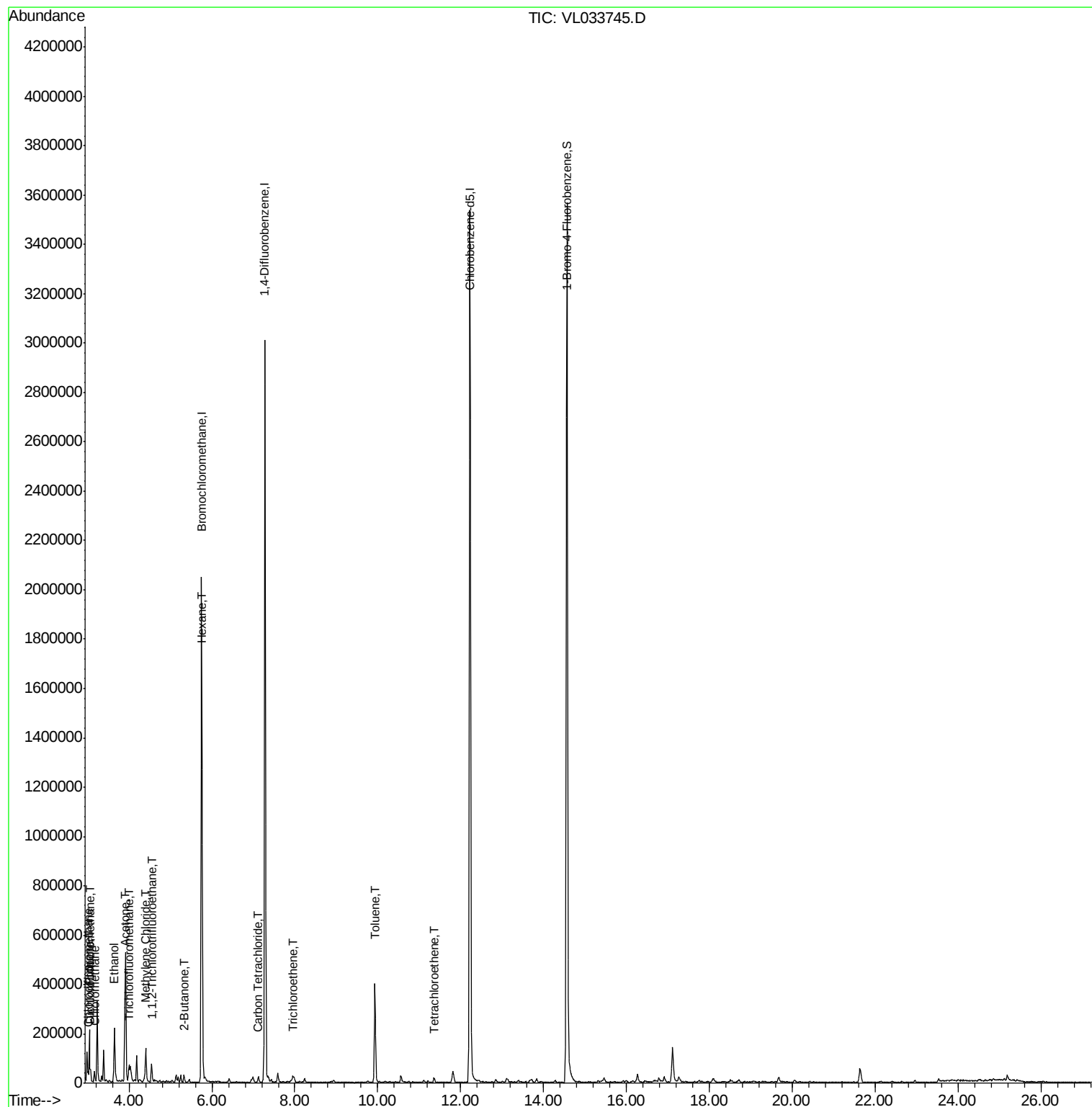
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052219\
Data File : VL033745.D
Acq On : 22 May 2019 15:30
Operator : SY/AP
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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: VL033745.D

Acq: 22 May 2019 15:30

Instrument :

MSVOA_L

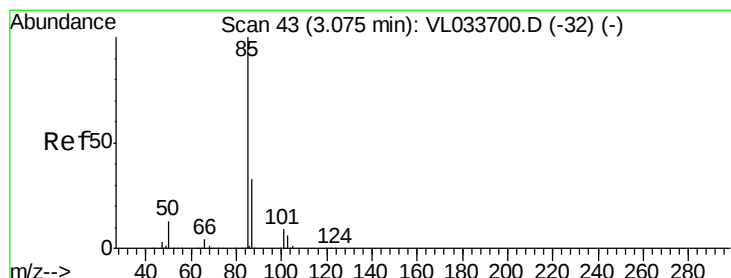
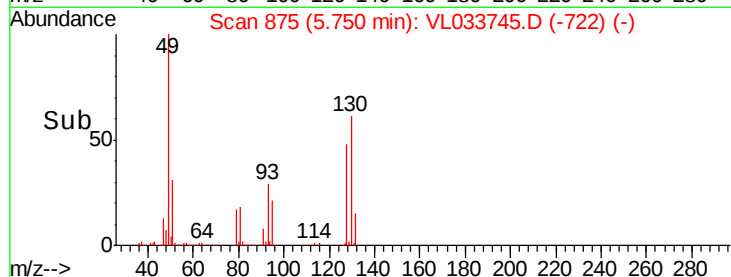
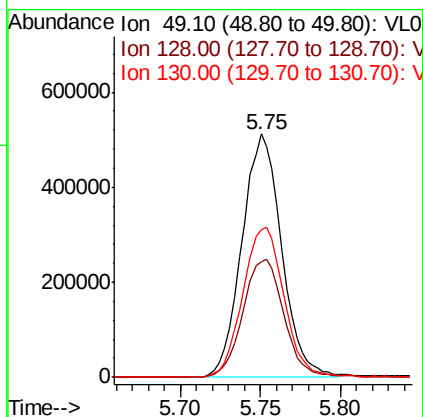
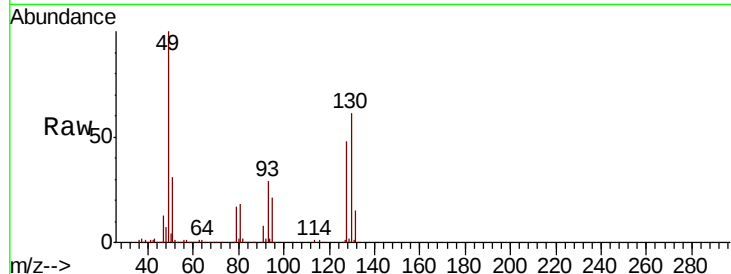
ClientSampleId :

BP-VPB202-AIR-DW-20190515

Tot Ion:	49	Resp:	865792
Ion Ratio	Lower	Upper	
49	100		
128	50.1	25.2	75.6
130	64.7	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 0.186 ppbv

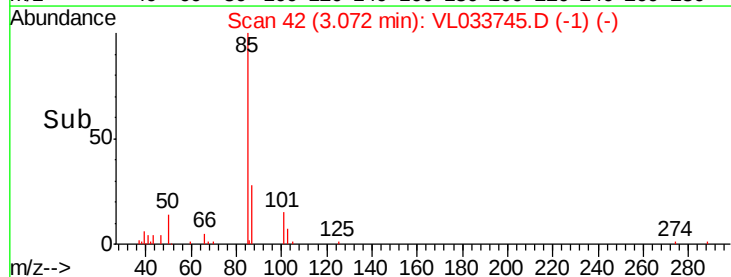
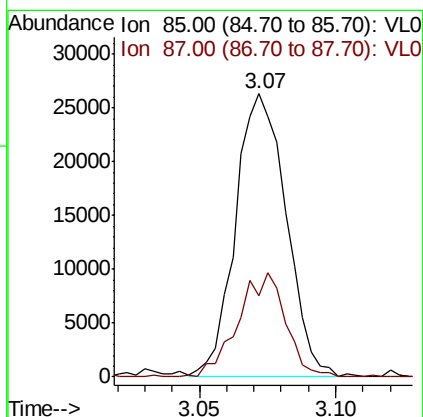
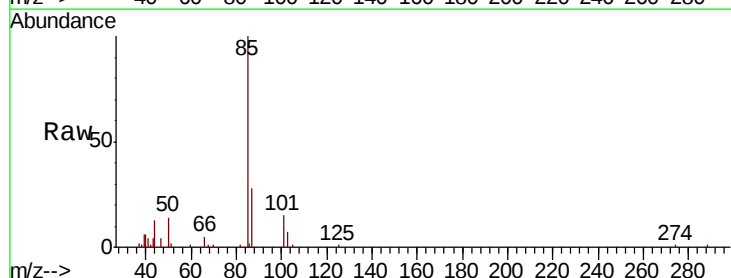
RT: 3.07 min Scan# 42

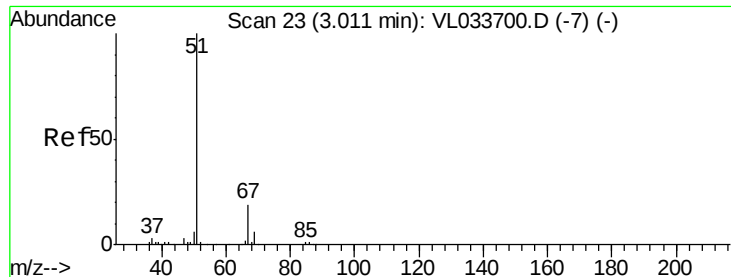
Delta R.T. -0.00 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

Tgt Ion:	85	Resp:	33983
Ion Ratio	Lower	Upper	
85	100		
87	28.5	26.3	39.5





#3

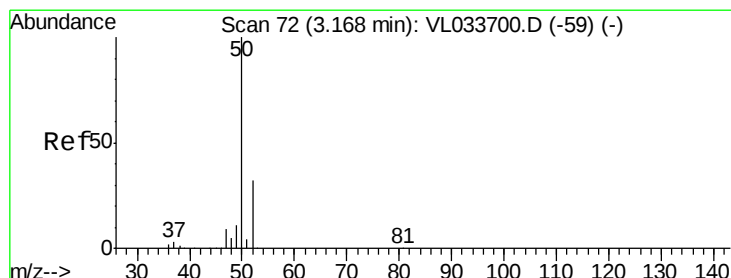
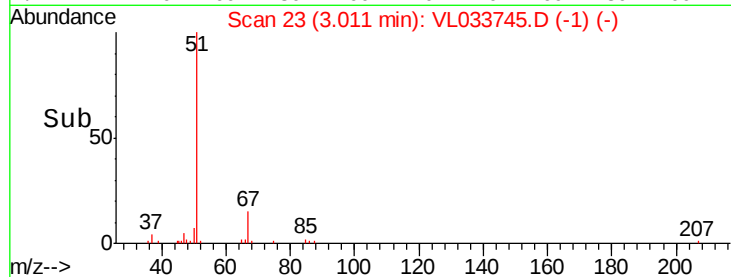
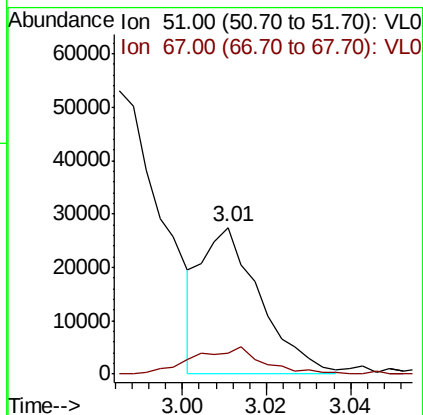
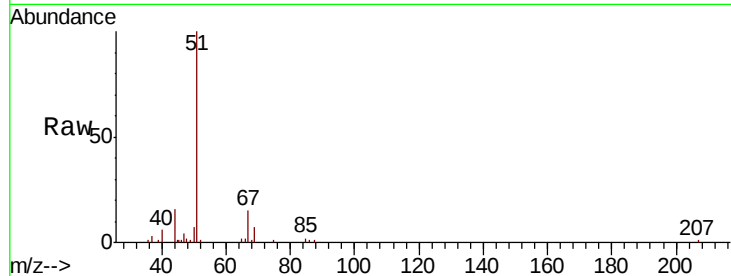
Chlorodifluoromethane
Concen: 0.270 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033745.D
Acq: 22 May 2019 15:30

Instrument :
MSVOA_L
ClientSampleId :
BP-VPB202-AIR-DW-20190515

Tot Ion: 51 Resp: 26742
Ion Ratio Lower Upper
51 100
67 22.6 15.6 23.4

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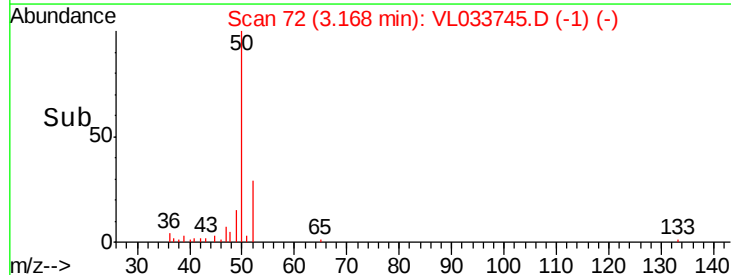
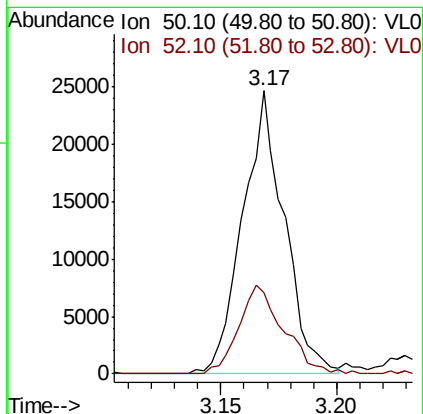
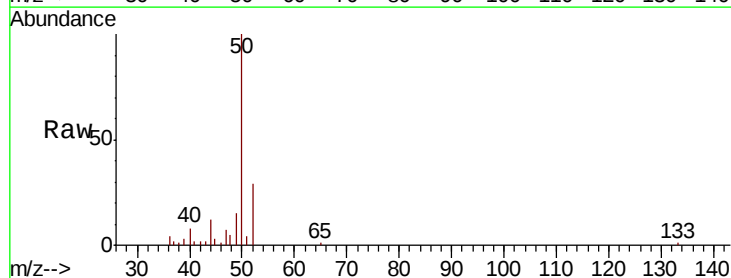
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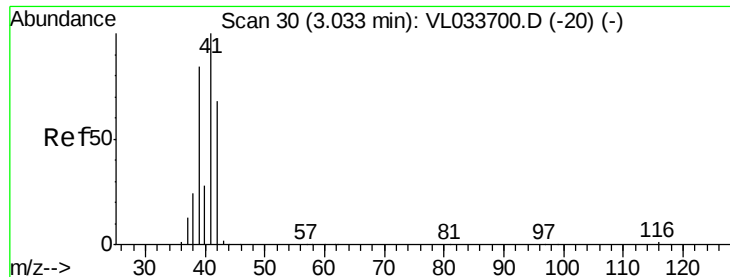


#4

Chloromethane
Concen: 0.542 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033745.D
Acq: 22 May 2019 15:30

Tgt Ion: 50 Resp: 30741
Ion Ratio Lower Upper
50 100
52 27.7 25.7 38.5





#9

Propene

Concen: 0.993 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-DW-20190515

Tot Ion: 41 Resp: 41869

Ion Ratio Lower Upper

41 100

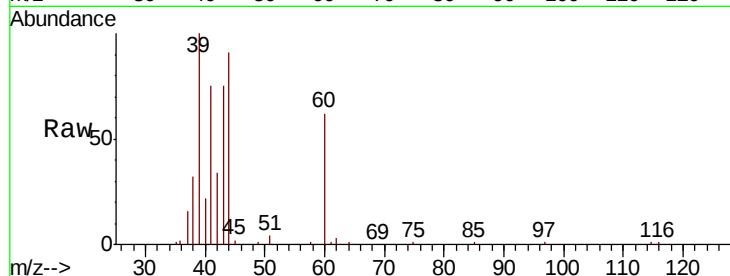
42 51.4 56.1 84.1#

Manual Integrations

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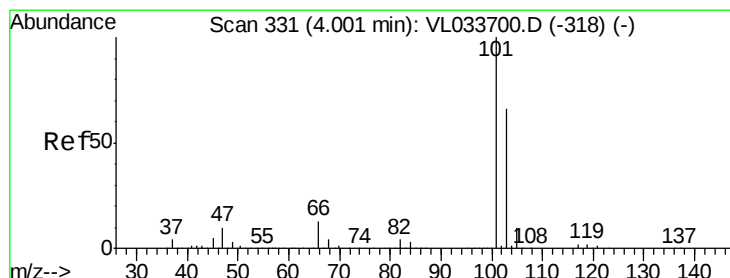
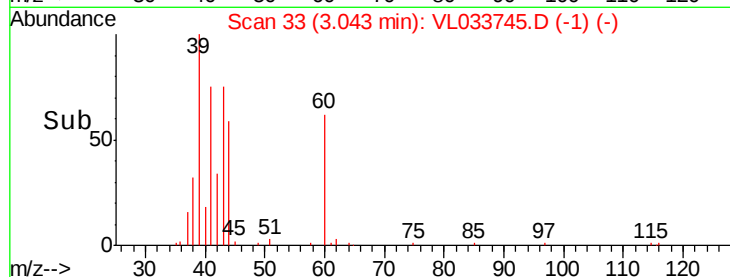
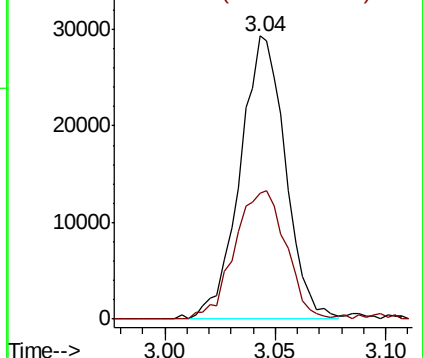
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.253 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL033745.D

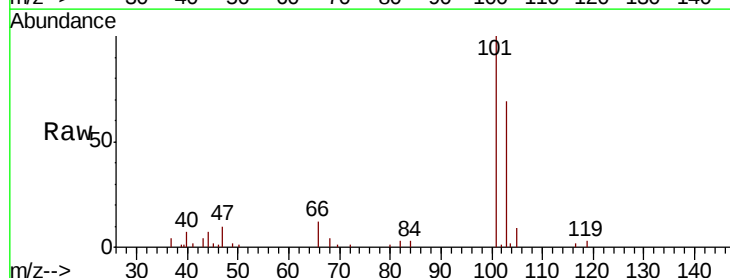
Acq: 22 May 2019 15:30

Tgt Ion: 101 Resp: 43997

Ion Ratio Lower Upper

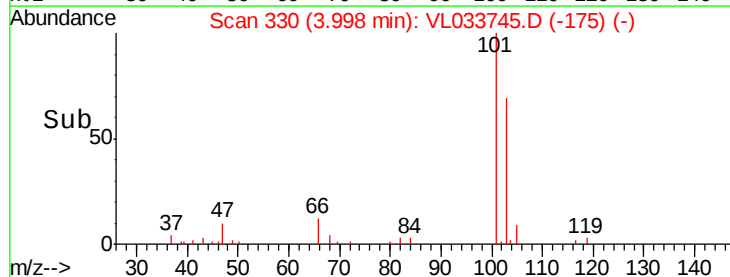
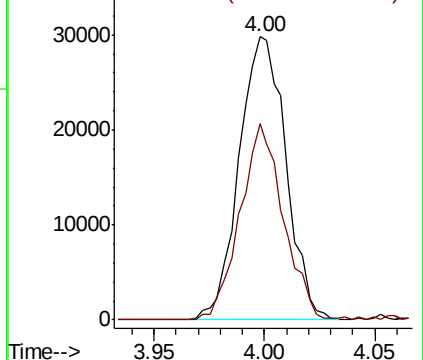
101 100

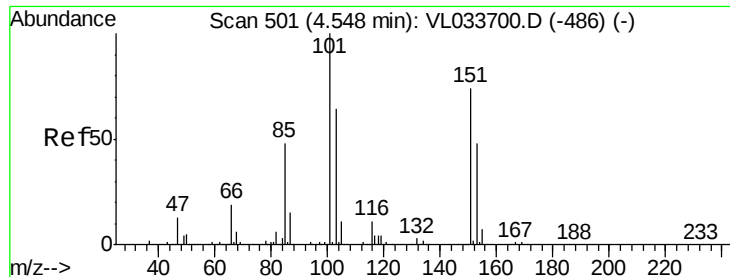
103 71.2 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.209 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-DW-20190515

Tot Ion:101 Resp: 25380

Ion Ratio Lower Upper

101 100

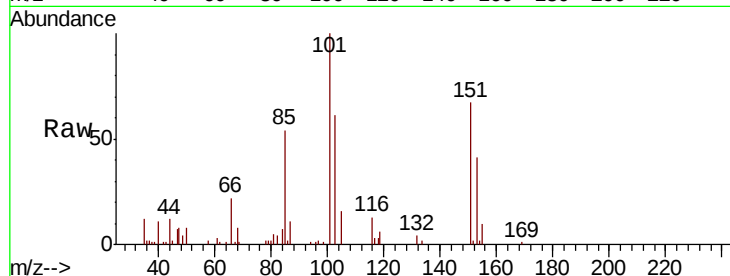
151 72.7 58.2 87.4

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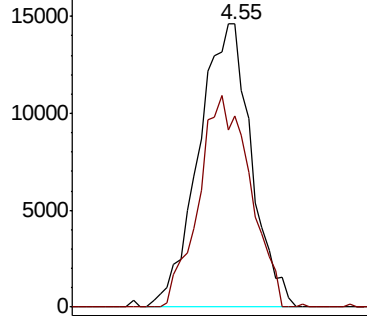
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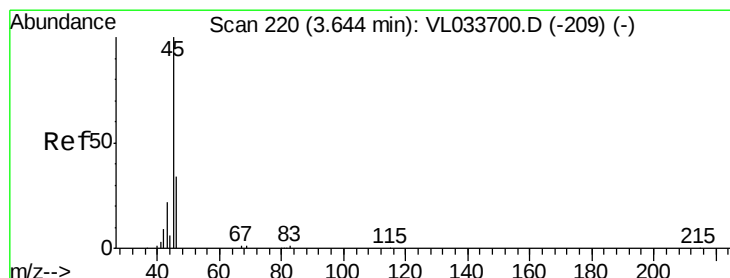
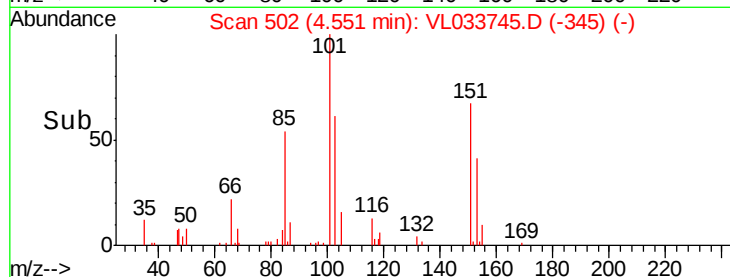


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



Time-->



#13

Ethanol

Concen: 17.581 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033745.D

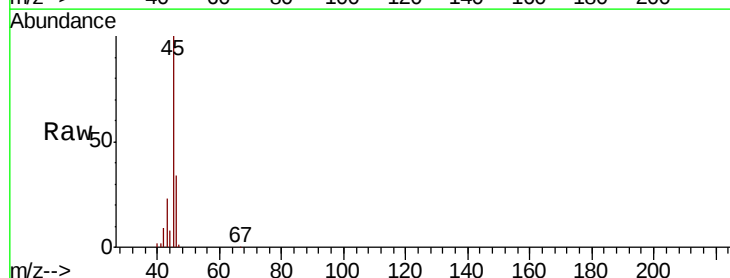
Acq: 22 May 2019 15:30

Tgt Ion: 45 Resp: 239702

Ion Ratio Lower Upper

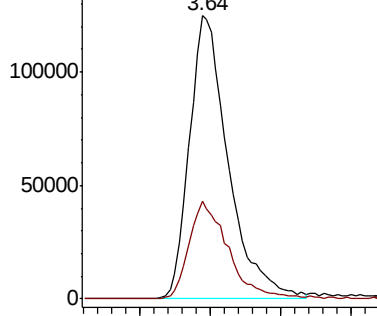
45 100

46 35.4 14.8 59.0

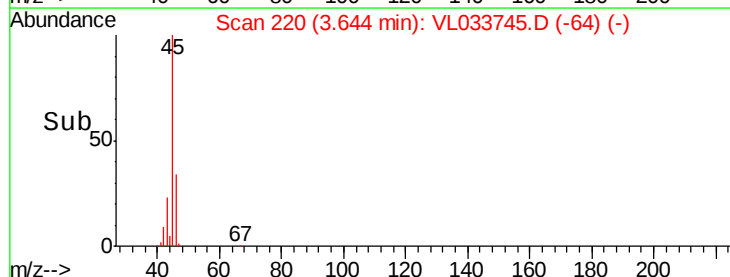


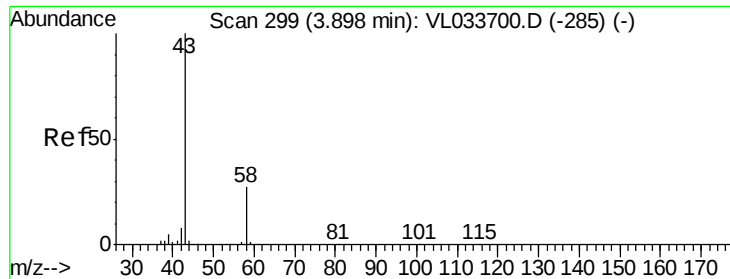
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



Time-->





#15

Acetone

Concen: 1.891 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-DW-20190515

Tot Ion: 43 Resp: 227173

Ion Ratio Lower Upper

43 100

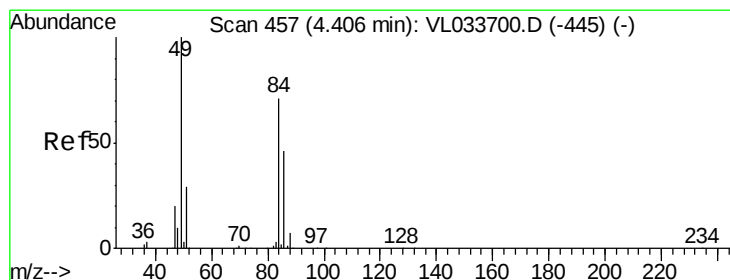
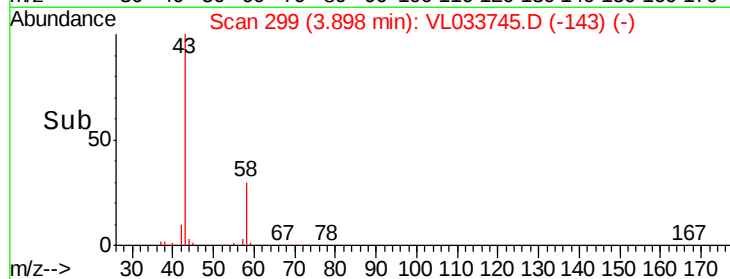
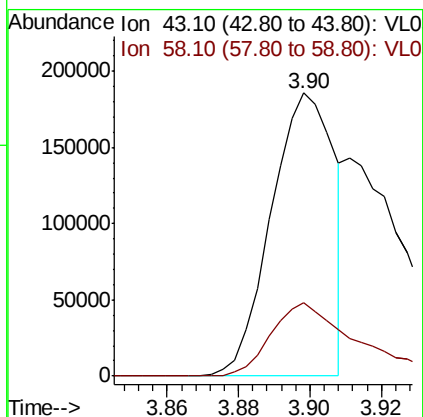
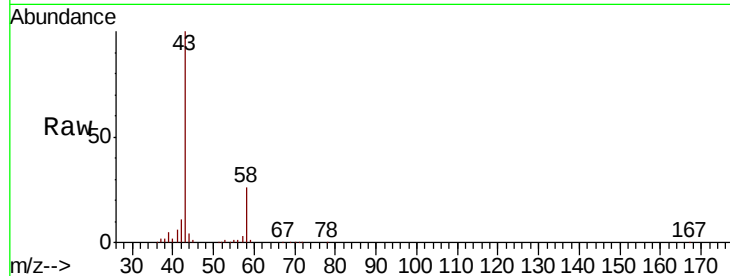
58 36.0 21.3 31.9#

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#20

Methylene Chloride

Concen: 0.999 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

Tgt Ion: 84 Resp: 46197

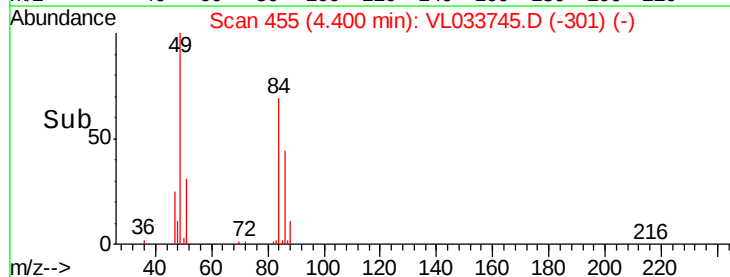
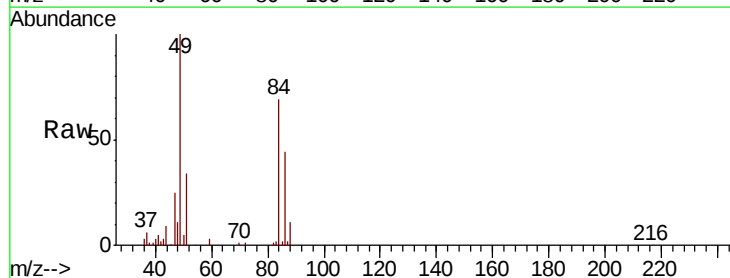
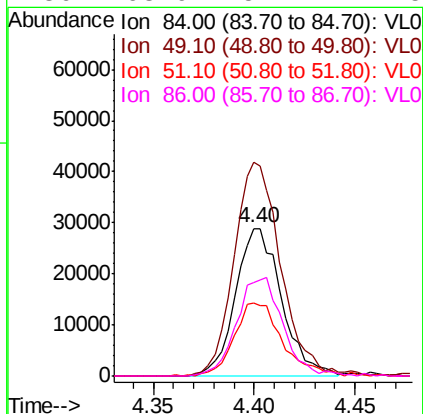
Ion Ratio Lower Upper

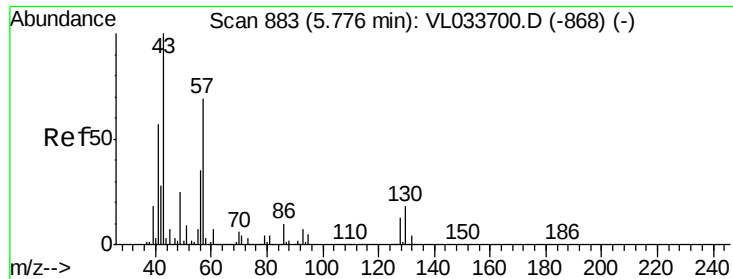
84 100

49 145.0 112.8 169.2

51 48.8 33.4 50.0

86 63.9 51.7 77.5





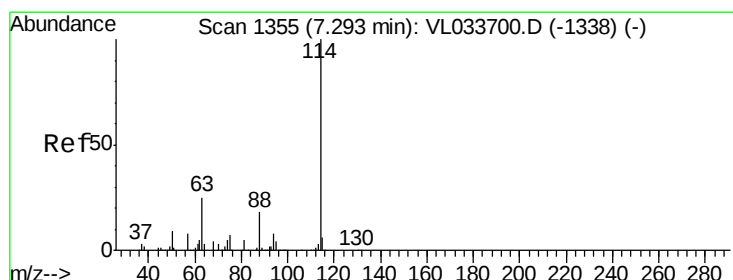
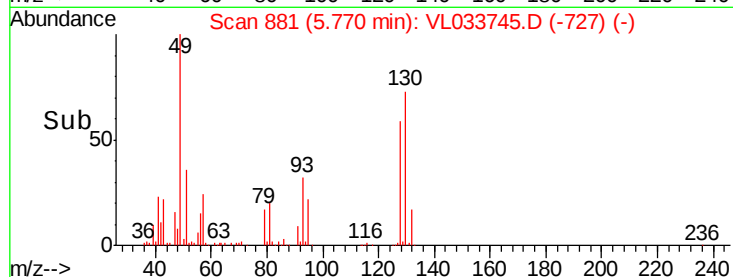
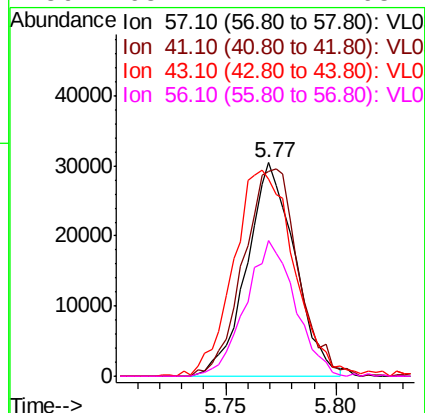
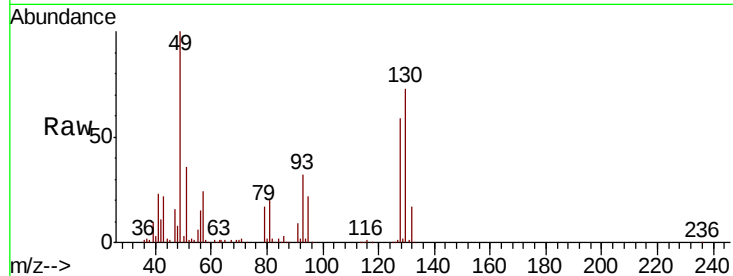
#26
Hexane
Concen: 0.508 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033745.D
Acq: 22 May 2019 15:30

Instrument :
MSVOA_L
ClientSampleId :
BP-VPB202-AIR-DW-20190515

Tot Ion	Ratio	Lower	Upper
57	100		
41	110.9	69.8	104.6#
43	121.9	181.8	272.6#
56	65.7	42.1	63.1#

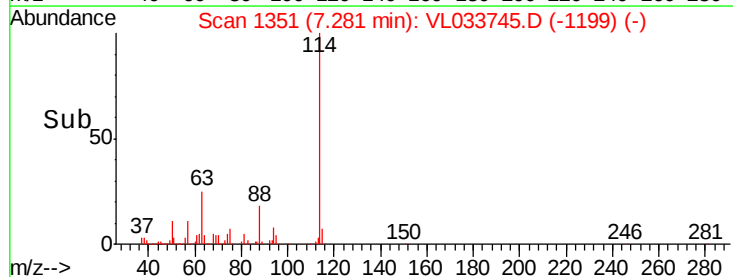
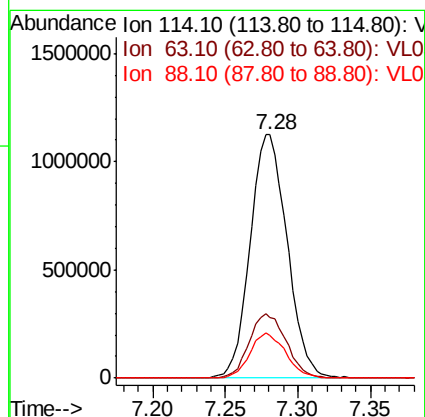
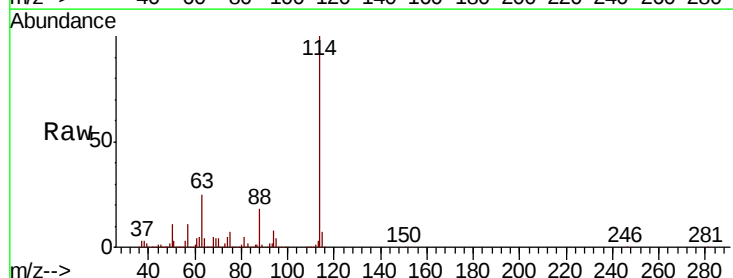
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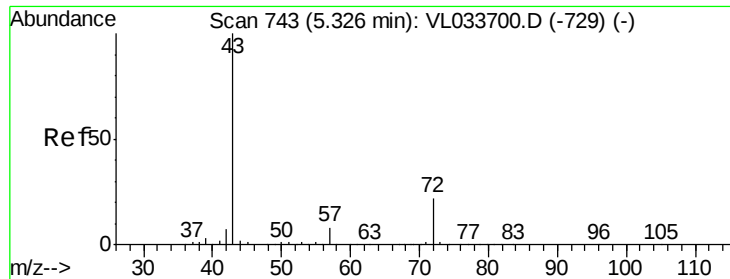
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL033745.D
Acq: 22 May 2019 15:30

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.6	20.9	31.3
88	18.0	14.3	21.5





#34

2-Butanone

Concen: 0.233 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-DW-20190515

Tot Ion: 43 Resp: 28883

Ion Ratio Lower Upper

43 100

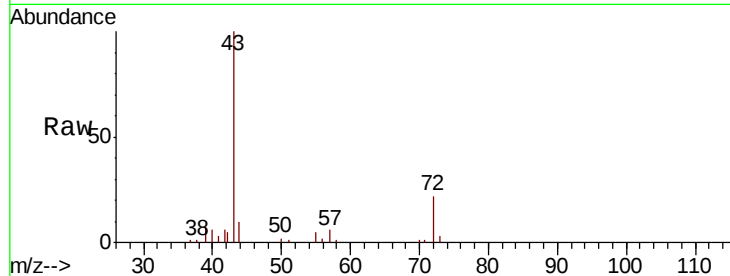
72 22.3 17.8 26.6

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

5.33

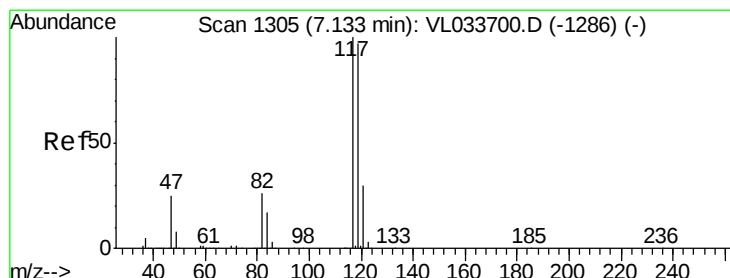
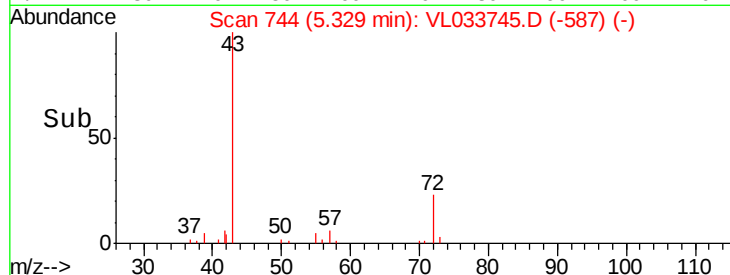
15000

10000

5000

0

Time-->



#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.12 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

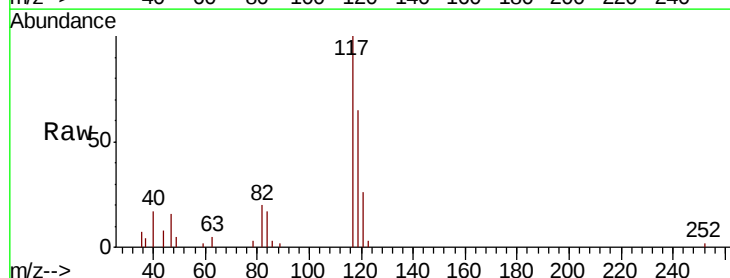
Tgt Ion: 117 Resp: 12483

Ion Ratio Lower Upper

117 100

119 64.9 77.2 115.8#

121 26.2 24.1 36.1



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

10000

8000

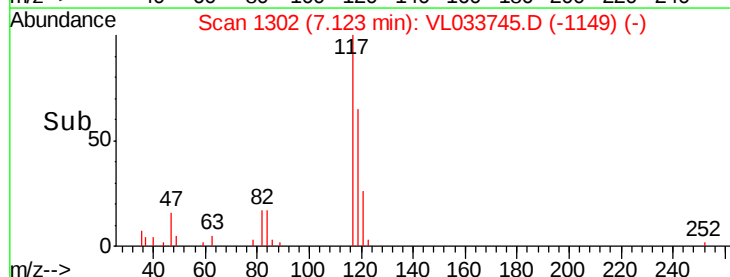
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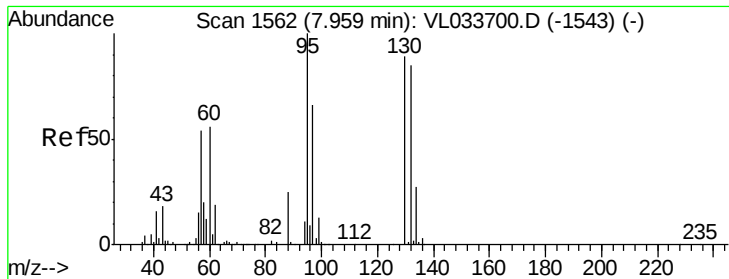
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2000

0

Time-->





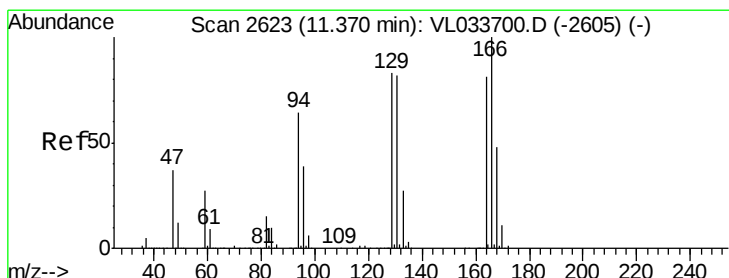
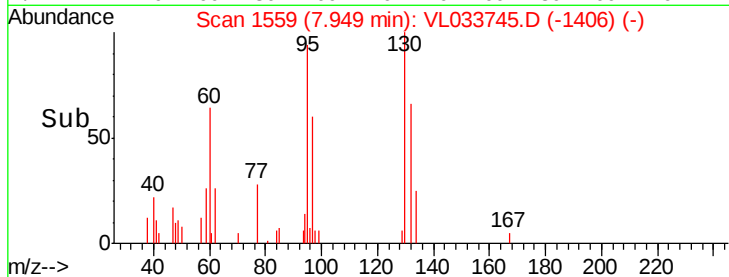
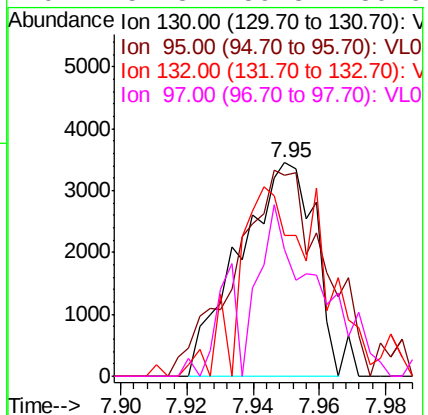
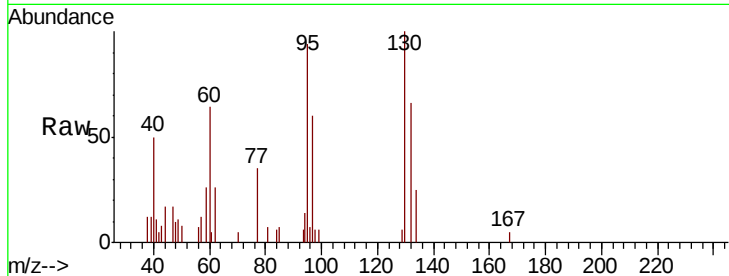
#38
 Trichloroethene
 Concen: 0.081 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VL033745.D
 Acq: 22 May 2019 15:30

Instrument :
 MSVOA_L
 ClientSampleID :
 BP-VPB202-AIR-DW-20190515

Tot Ion	Ratio	Lower	Upper
130	100		
95	80.6	90.2	135.4#
132	60.3	76.4	114.6#
97	57.3	59.8	89.6#

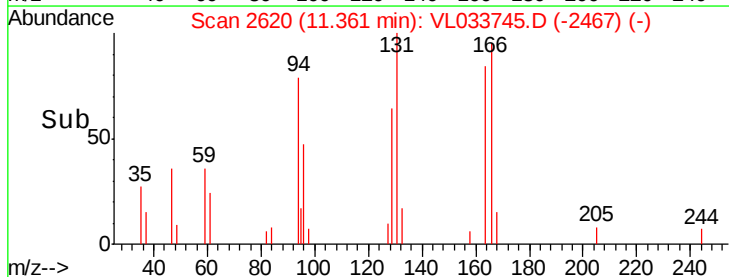
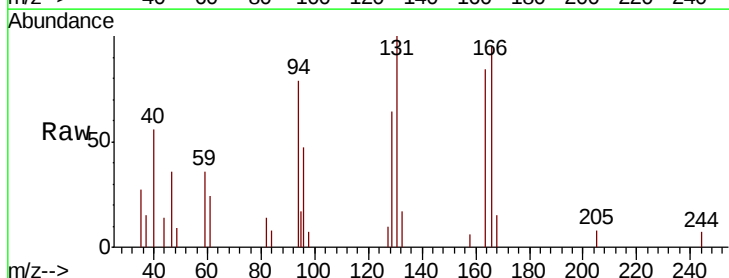
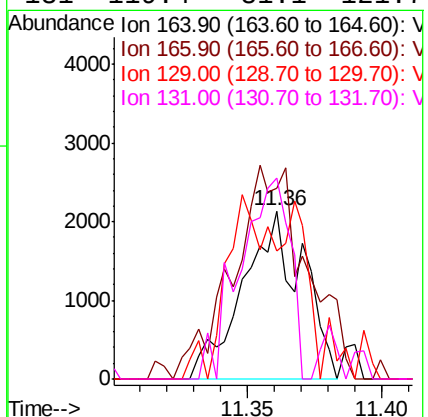
Manual Integrations
 APPROVED

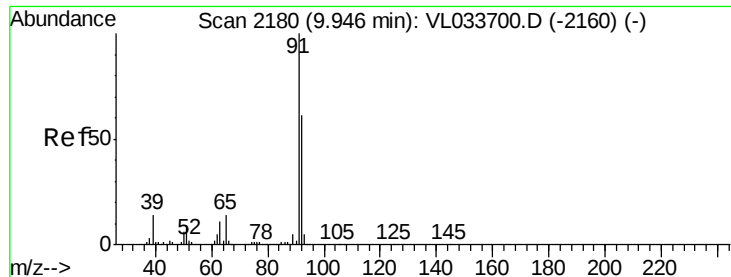
MMDadoda
 5/28/2019 2:50:48 AM



#52
 Tetrachloroethene
 Concen: 0.052 ppbv m
 RT: 11.36 min Scan# 2620
 Delta R.T. -0.01 min
 Lab File: VL033745.D
 Acq: 22 May 2019 15:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.4	98.9	148.3
129	76.1	81.8	122.6#
131	119.4	81.1	121.7





#53

Toluene

Concen: 1.430 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB202-AIR-DW-20190515

Tot Ion: 91 Resp: 280352

Ion Ratio Lower Upper

91 100

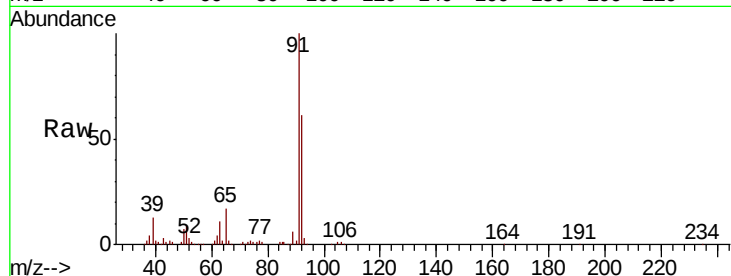
92 58.2 47.6 71.4

Manual Integrations

APPROVED

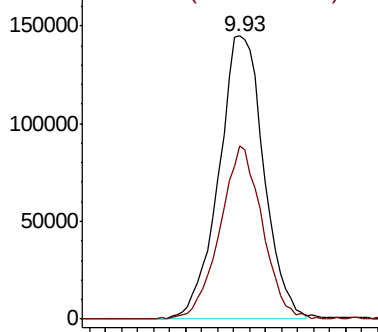
MMDadoda

5/28/2019 2:50:48 AM

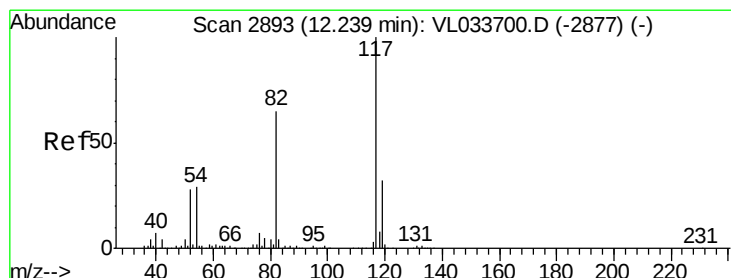
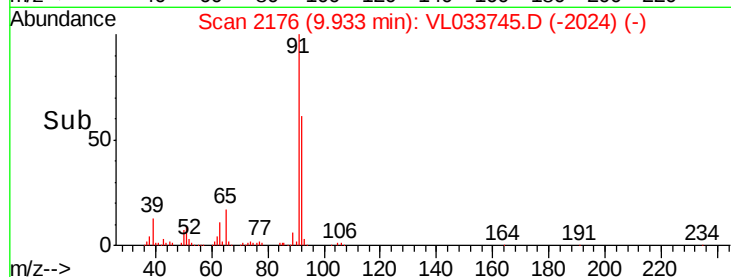


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033745.D

Acq: 22 May 2019 15:30

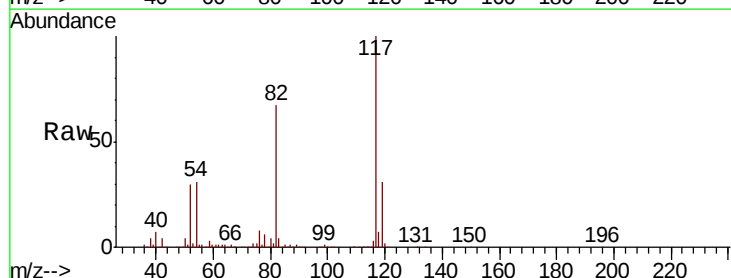
Tgt Ion: 117 Resp: 2117015

Ion Ratio Lower Upper

117 100

82 69.4 49.4 74.0

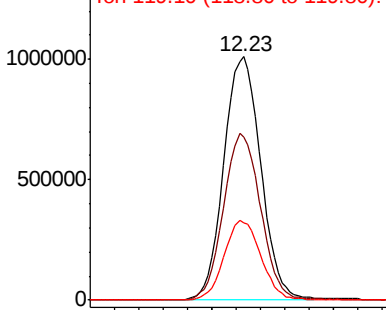
119 32.5 24.9 37.3



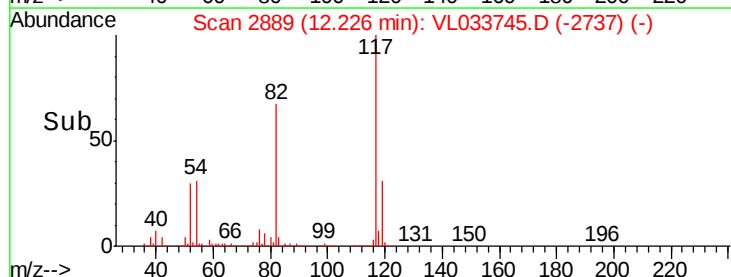
Abundance Ion 117.10 (116.80 to 117.80): V

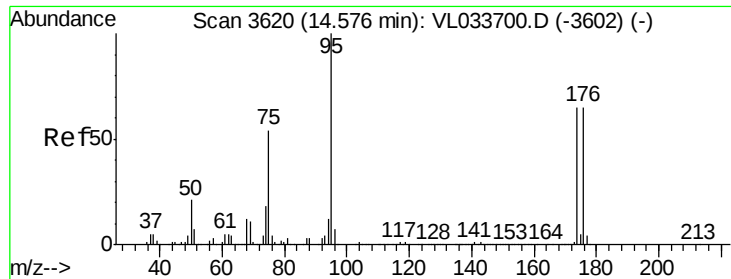
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time-->





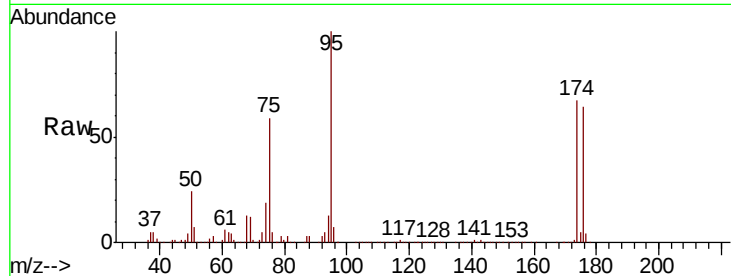
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.599 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL033745.D
 Acq: 22 May 2019 15:30

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB202-AIR-DW-20190515

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.4	53.9	80.9
175	4.8	3.8	5.8

Manual Integrations
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 5/28/2019 2:50:48 AM



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

