

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033816.D
 Acq On : 28 May 2019 23:53
 Operator : SY/AP
 Sample : K2960-05DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-ODA-3004-04DUP

Manual Integrations
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Quant Time: May 29 06:01:47 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	677825	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1589870	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1581203	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1291833	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	19431	0.136	ppbv	91
3) Chlorodifluoromethane	3.01	51	26201m	0.337	ppbv	
4) Chloromethane	3.17	50	27320	0.615	ppbv	98
9) Propene	3.05	41	16802	0.509	ppbv #	80
11) Trichlorofluoromethane	4.00	101	36607	0.269	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	22057	0.232	ppbv	97
13) Ethanol	3.65	45	90325	8.462	ppbv	98
15) Acetone	3.89	43	537203	5.712	ppbv	98
20) Methylene Chloride	4.40	84	63610	1.757	ppbv	93
26) Hexane	5.77	57	35289	0.497	ppbv #	46
30) Cyclohexane	7.27	84	6450m	0.108	ppbv	
34) 2-Butanone	5.33	43	35574m	0.361	ppbv	
35) Carbon Tetrachloride	7.12	117	10410m	0.082	ppbv	
38) Trichloroethene	7.96	130	4481m	0.083	ppbv	
53) Toluene	9.94	91	572800	3.672	ppbv	99
59) m/p-Xylene	13.11	91	18722m	0.102	ppbv	

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

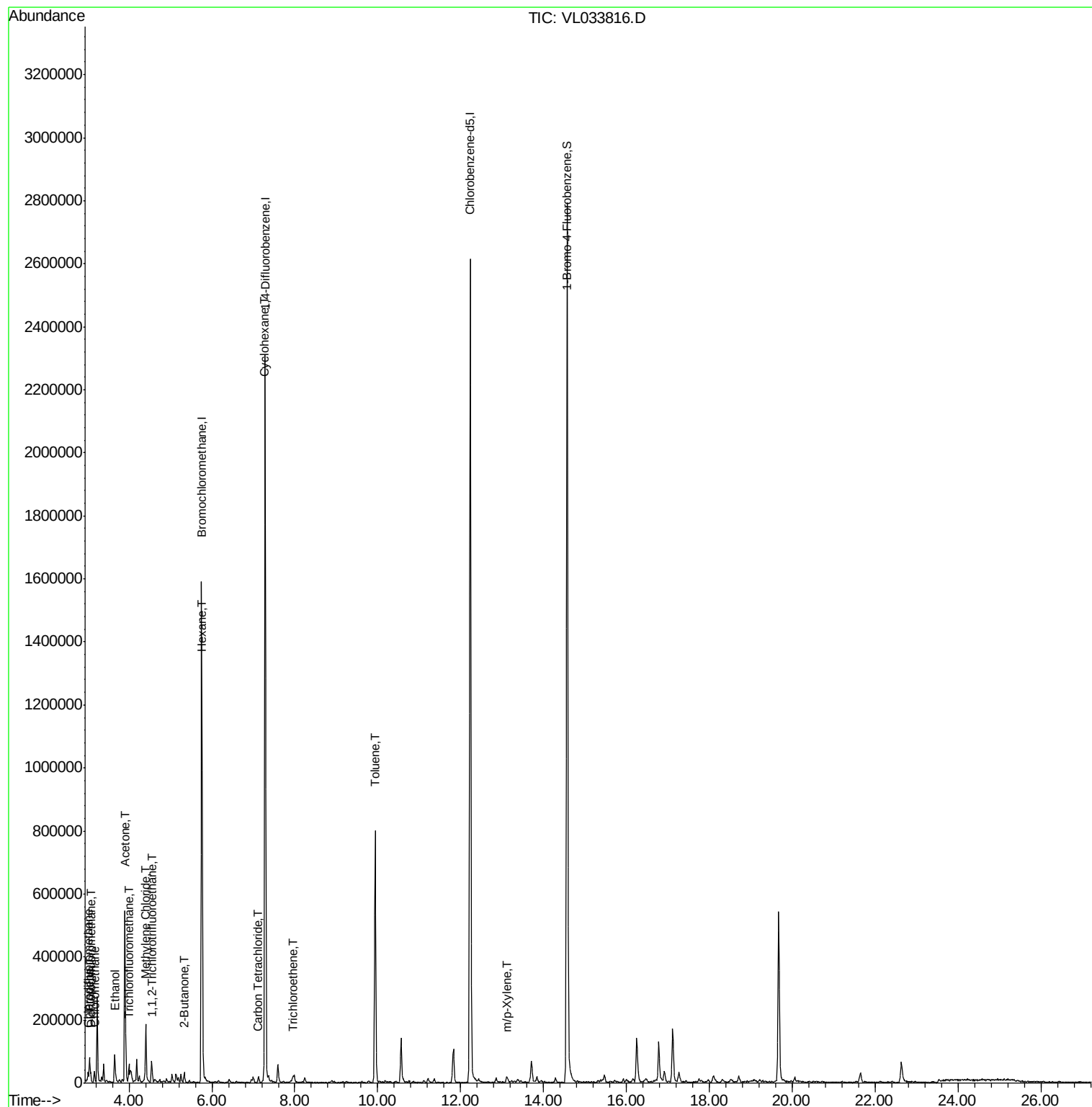
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052819\
Data File : VL033816.D
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ALS Vial : 1 Sample Multiplier: 1

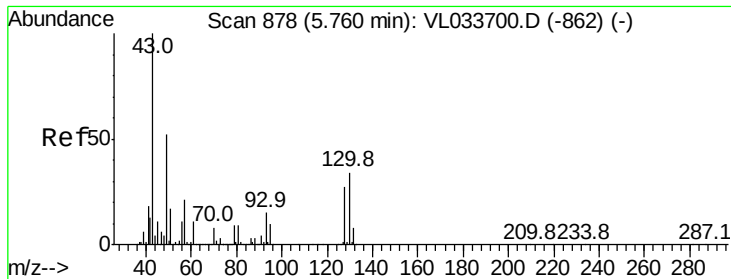
Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3004-04DUP

Manual Integrations
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Quant Time: May 29 06:01:47 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# 876

Delta R.T. -0.01 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Instrument :

MSVOA_L

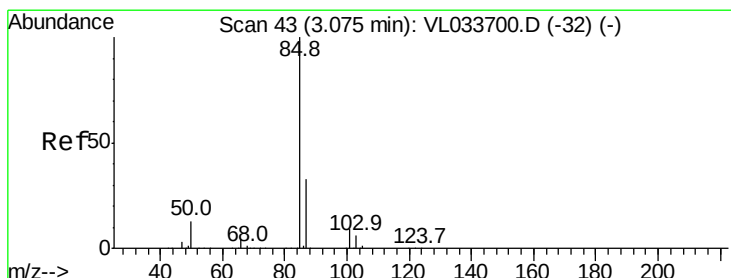
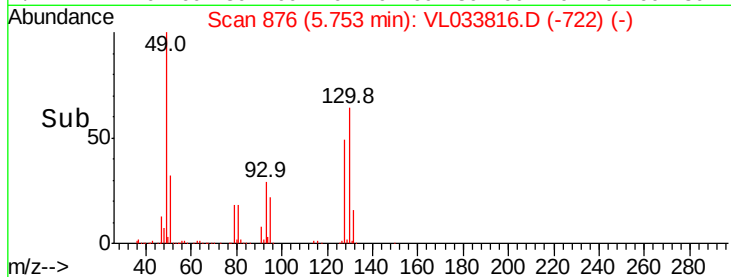
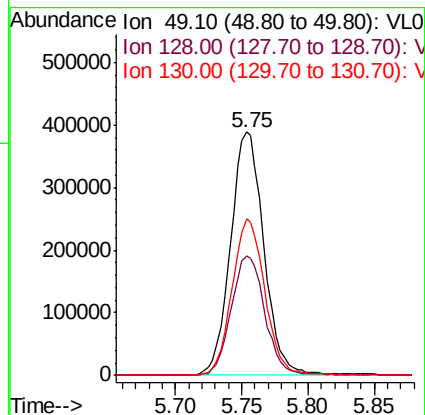
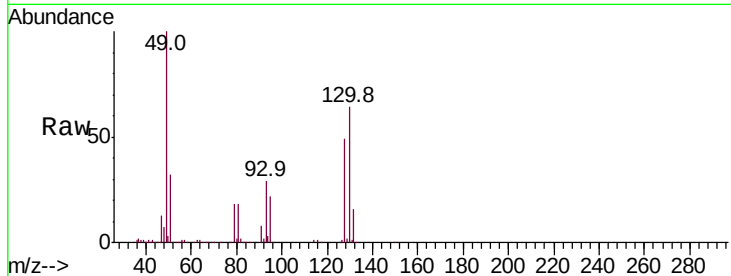
ClientSampleID :

BPS1-ODA-3004-04DUP

Tot Ion:	49	Resp:	677825
Ion Ratio	Lower	Upper	
49	100		
128	49.8	25.2	75.6
130	63.8	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 0.136 ppbv

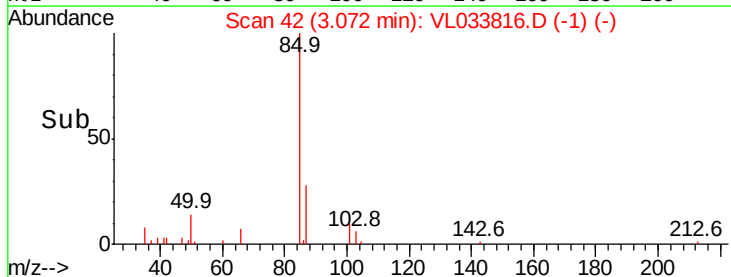
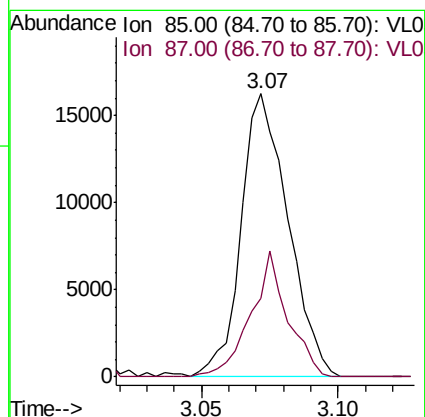
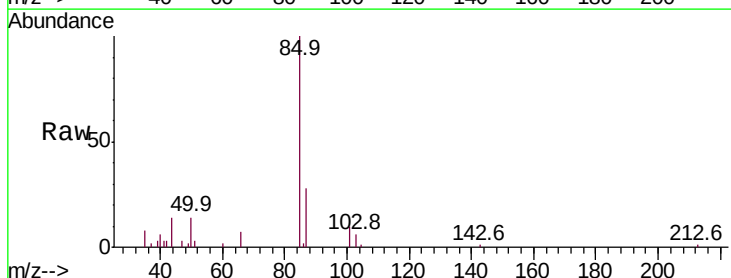
RT: 3.07 min Scan# 42

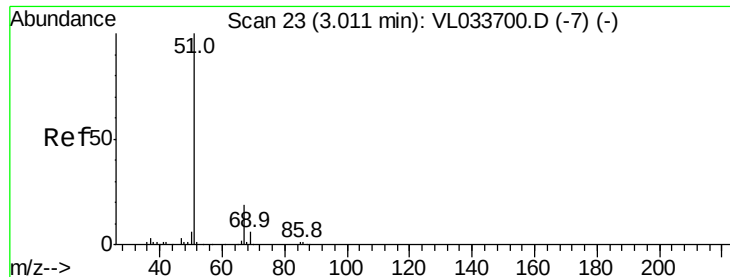
Delta R.T. -0.00 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Tgt Ion:	85	Resp:	19431
Ion Ratio	Lower	Upper	
85	100		
87	27.7	26.3	39.5





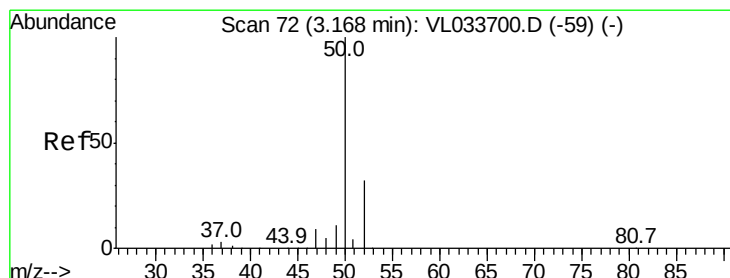
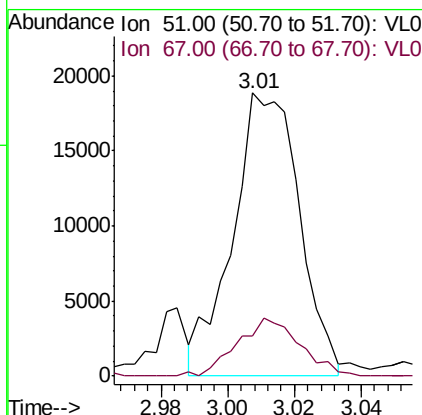
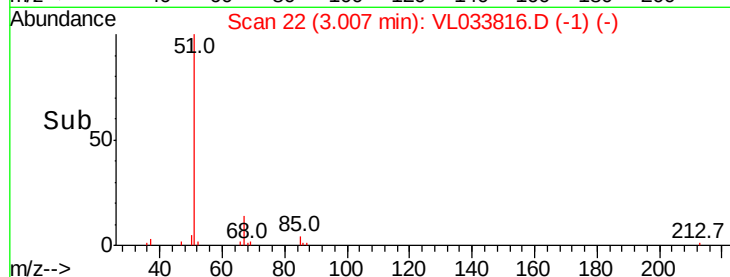
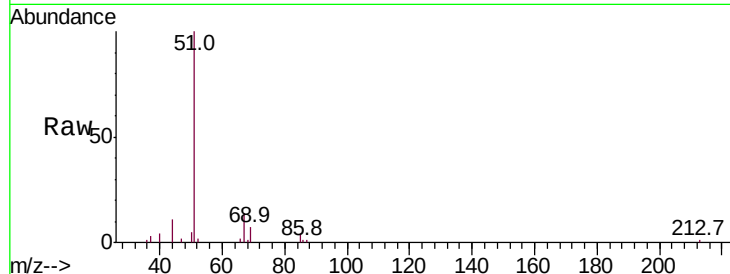
#3
Chlorodifluoromethane
Concen: 0.337 ppbv
RT: 3.01 min Scan# 22
Delta R.T. -0.00 min
Lab File: VL033816.D
Acq: 28 May 2019 23:53

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3004-04DUP

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.3	15.6	23.4

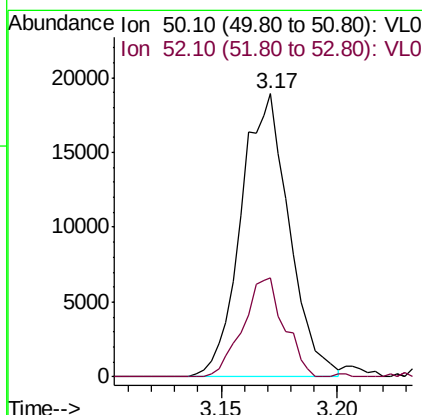
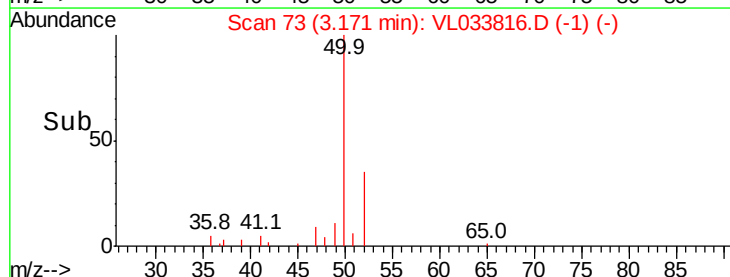
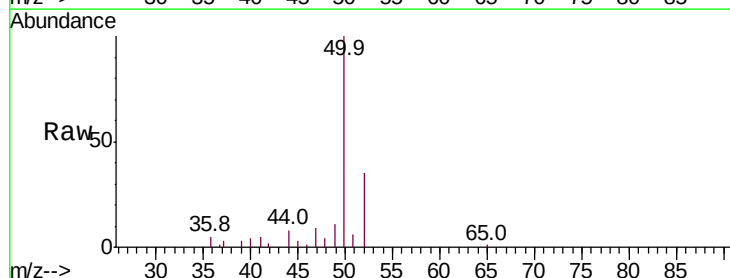
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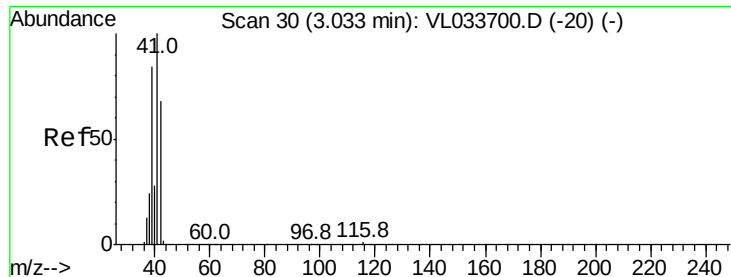
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#4
Chloromethane
Concen: 0.615 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033816.D
Acq: 28 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.7	38.5





#9

Propene

Concen: 0.509 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3004-04DUP

Tot Ion: 41 Resp: 16802

Ion Ratio Lower Upper

41 100

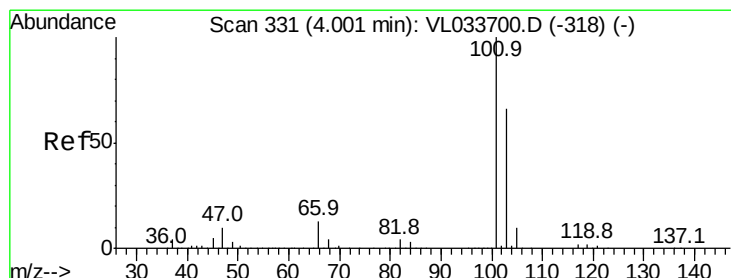
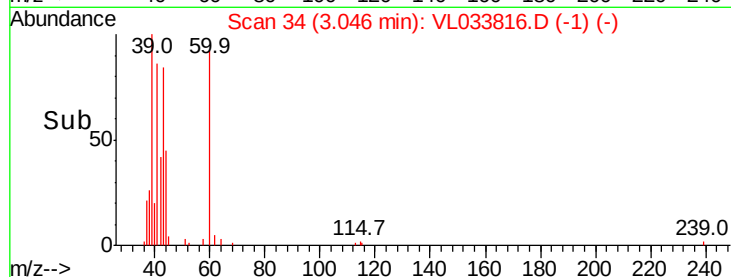
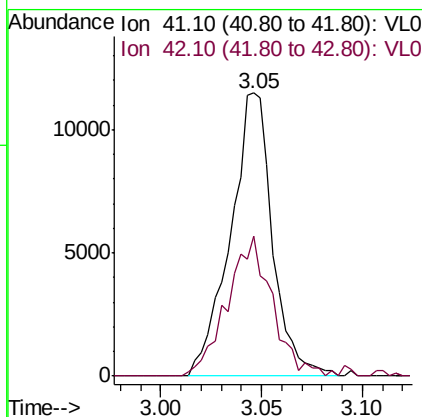
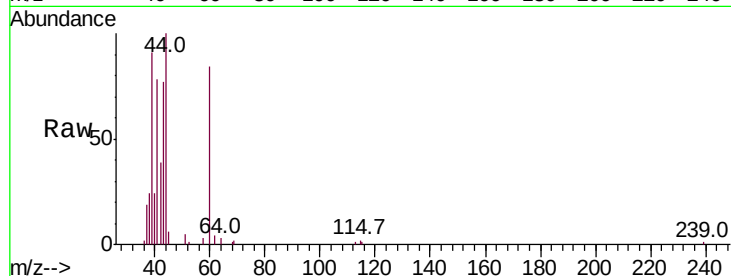
42 54.0 56.1 84.1#

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#11

Trichlorofluoromethane

Concen: 0.269 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033816.D

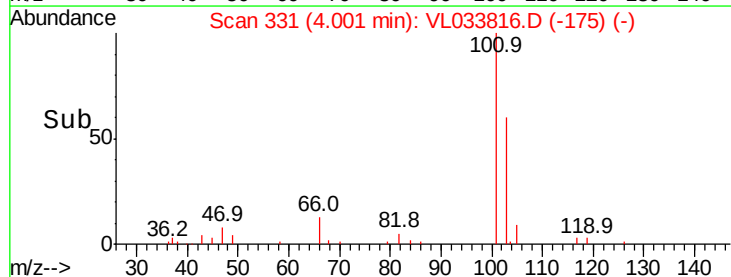
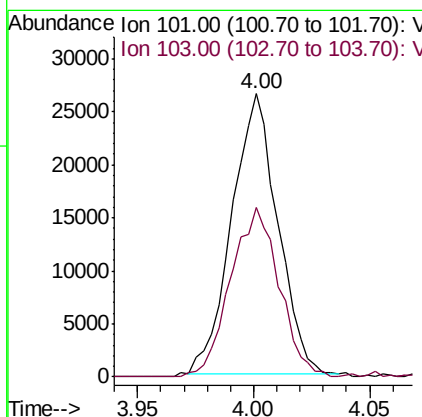
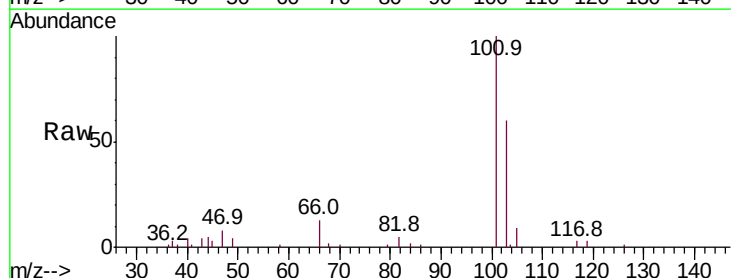
Acq: 28 May 2019 23:53

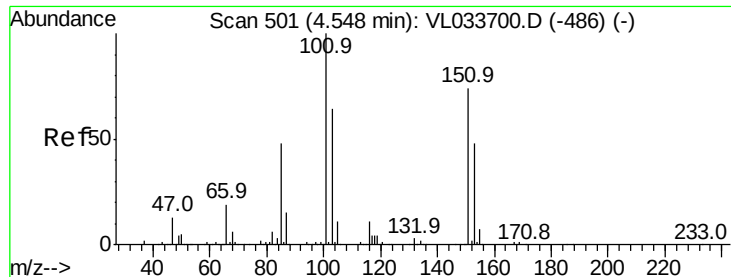
Tgt Ion: 101 Resp: 36607

Ion Ratio Lower Upper

101 100

103 61.2 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.232 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3004-04DUP

Tot Ion:101 Resp: 22057

Ion Ratio Lower Upper

101 100

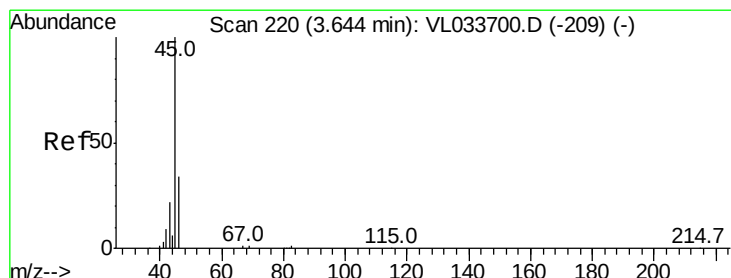
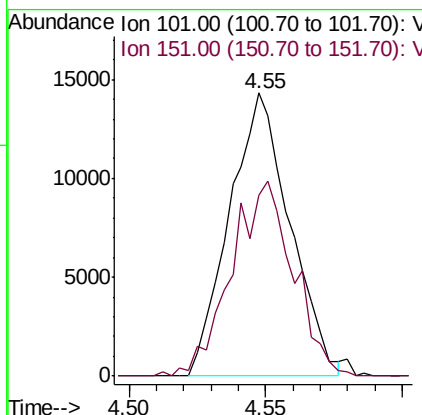
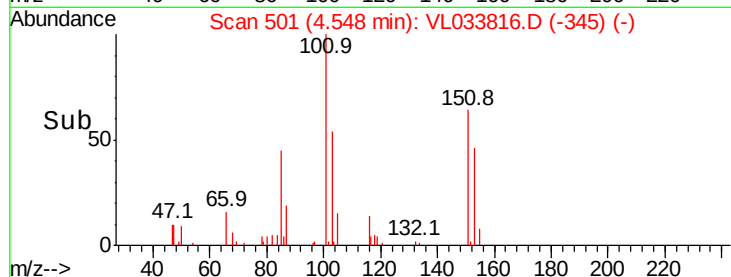
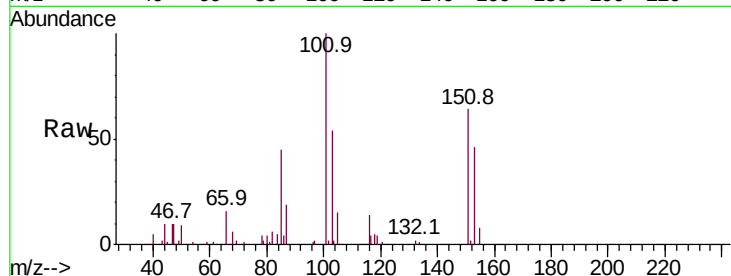
151 70.4 58.2 87.4

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#13

Ethanol

Concen: 8.462 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033816.D

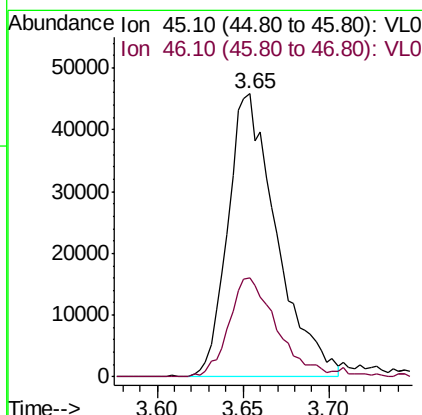
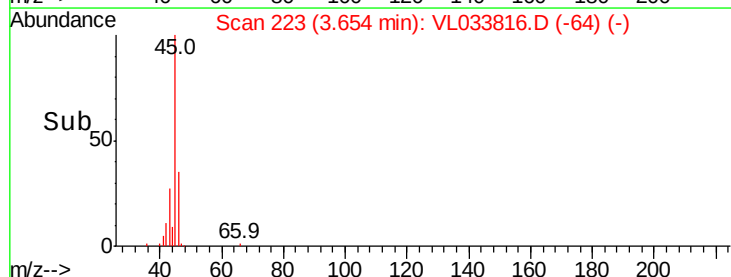
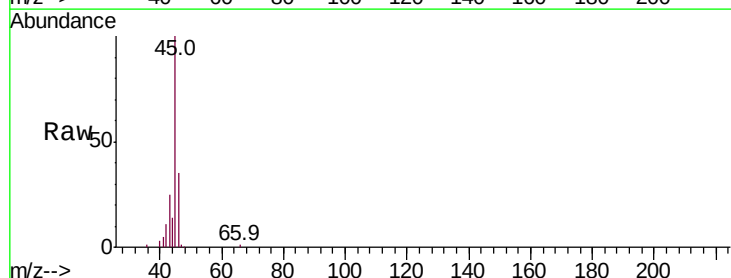
Acq: 28 May 2019 23:53

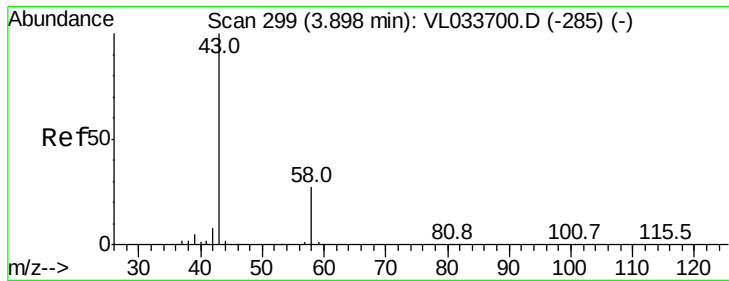
Tgt Ion: 45 Resp: 90325

Ion Ratio Lower Upper

45 100

46 35.7 14.8 59.0





#15

Acetone

Concen: 5.712 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3004-04DUP

Tot Ion: 43 Resp: 537203

Ion Ratio Lower Upper

43 100

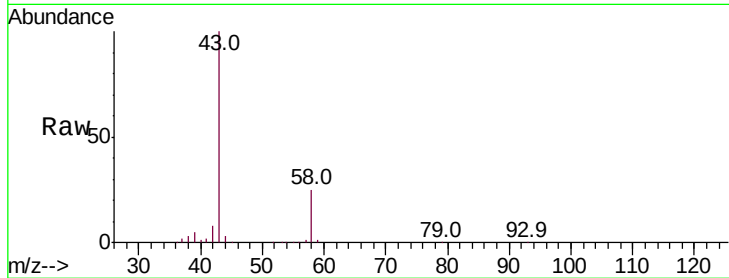
58 27.7 21.3 31.9

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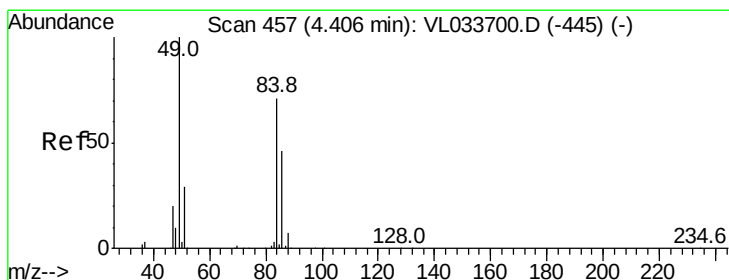
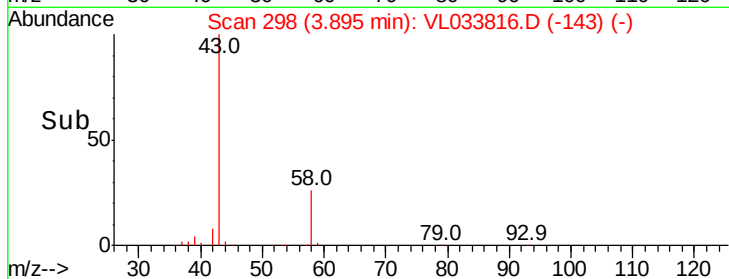
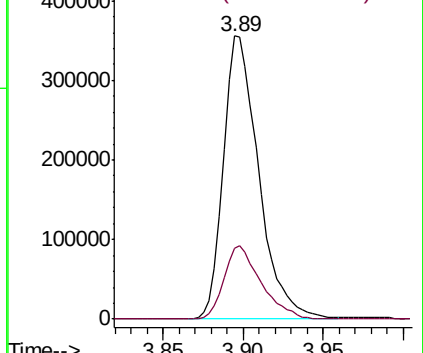
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.757 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Tgt Ion: 84 Resp: 63610

Ion Ratio Lower Upper

84 100

49 150.2 112.8 169.2

51 46.8 33.4 50.0

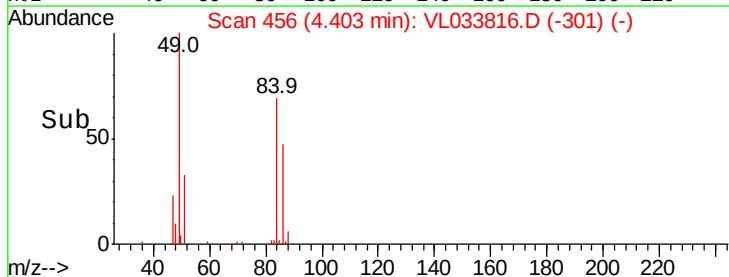
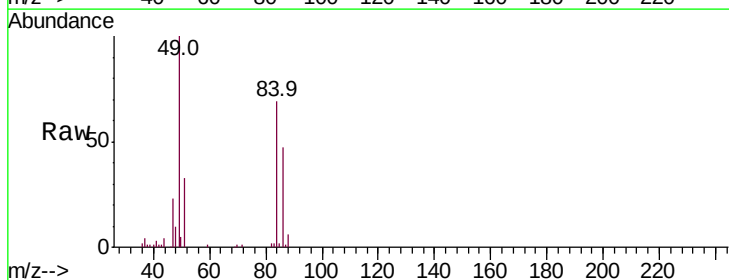
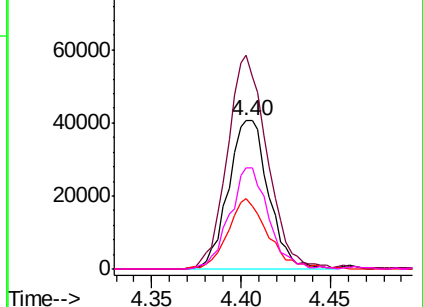
86 67.8 51.7 77.5

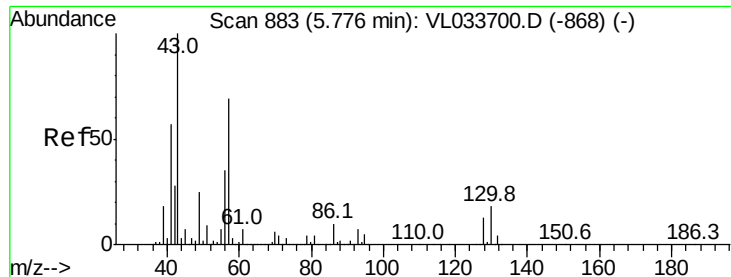
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





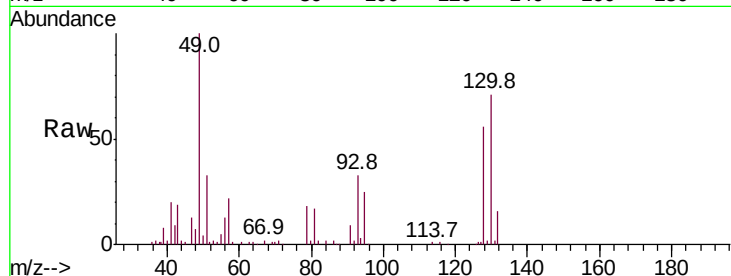
#26
Hexane
Concen: 0.497 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033816.D
Acq: 28 May 2019 23:53

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3004-04DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	105.9	69.8	104.6#
43	102.1	181.8	272.6#
56	62.9	42.1	63.1

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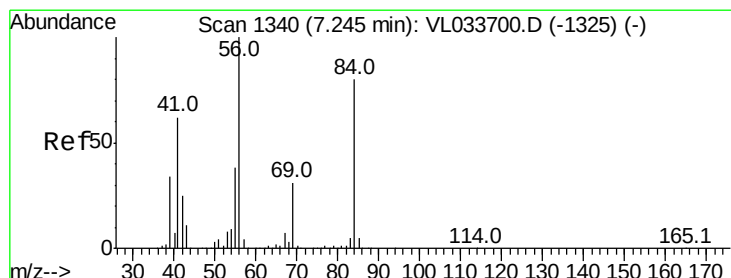
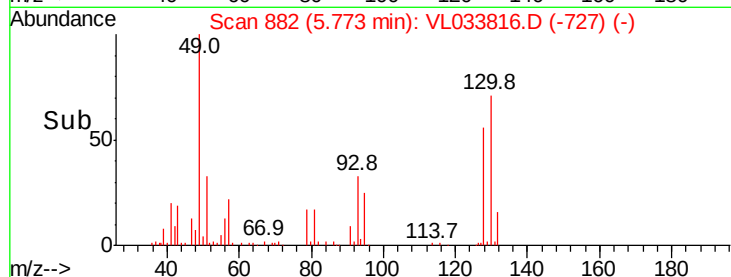
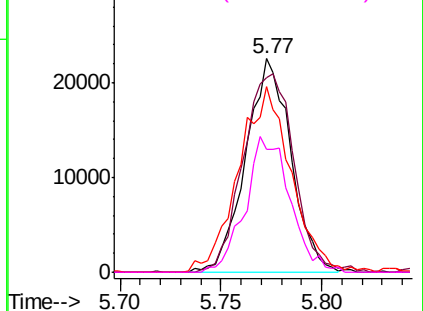
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

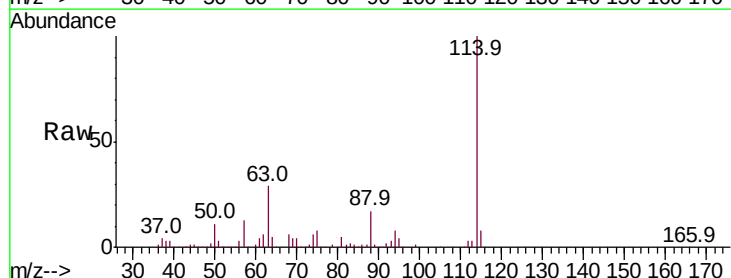
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.108 ppbv m
RT: 7.27 min Scan# 1347
Delta R.T. 0.02 min
Lab File: VL033816.D
Acq: 28 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	34.7	66.0	99.0#

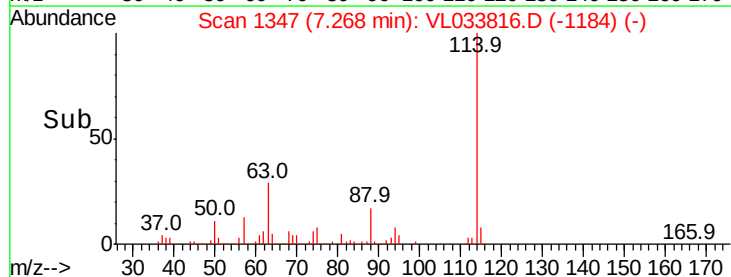
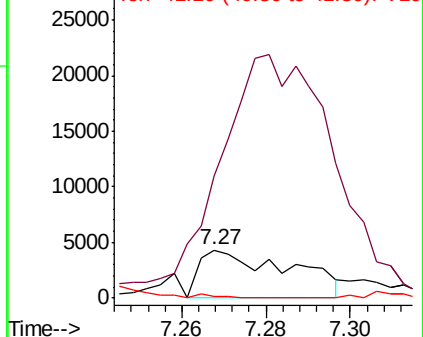


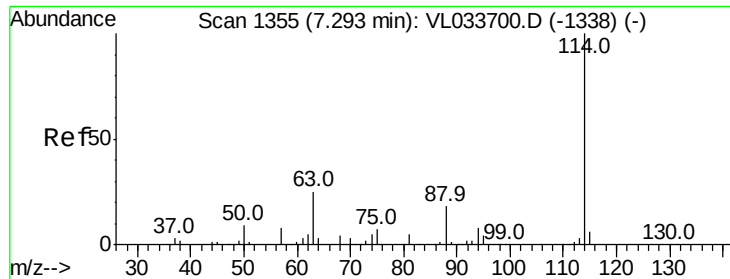
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





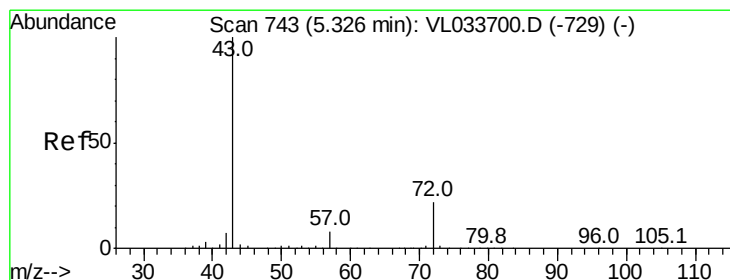
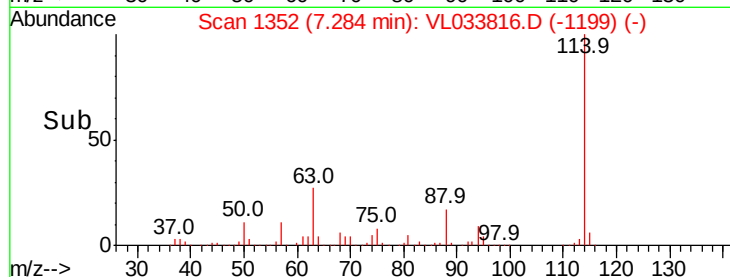
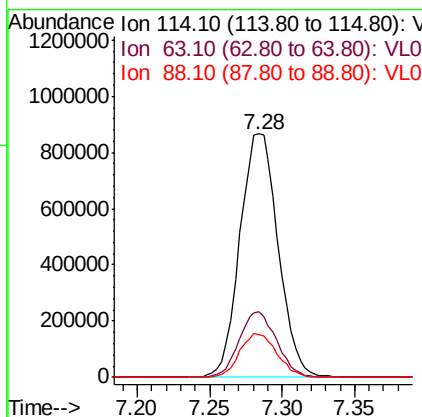
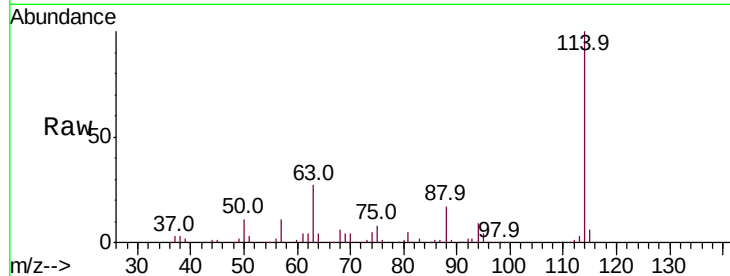
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033816.D
 Acq: 28 May 2019 23:53

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-ODA-3004-04DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.9	31.3
88	17.5	14.3	21.5

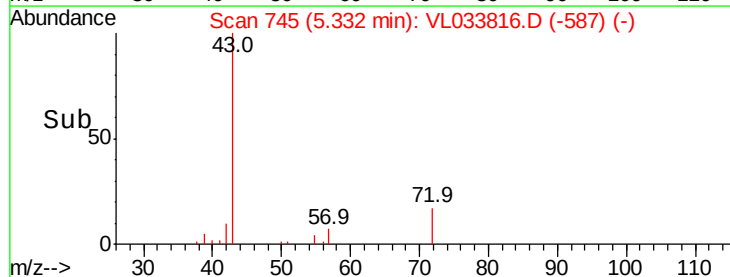
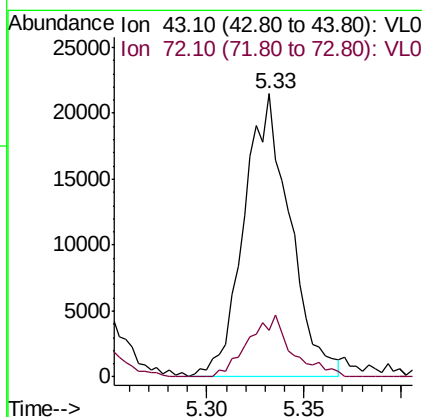
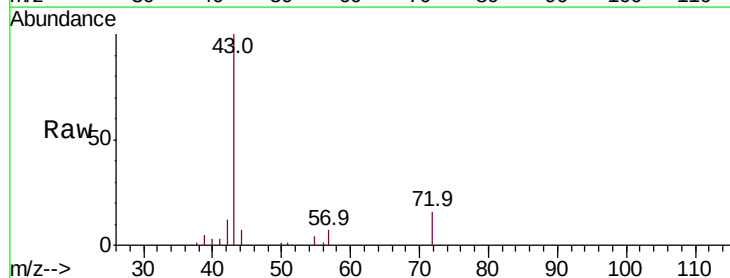
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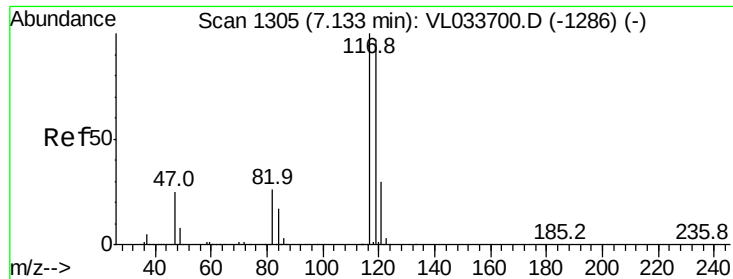
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#34
 2-Butanone
 Concen: 0.361 ppbv m
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033816.D
 Acq: 28 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.8	26.6#





#35

Carbon Tetrachloride

Concen: 0.082 ppbv m

RT: 7.12 min Scan# 1300

Delta R.T. -0.02 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Instrument :

MSVOA_L

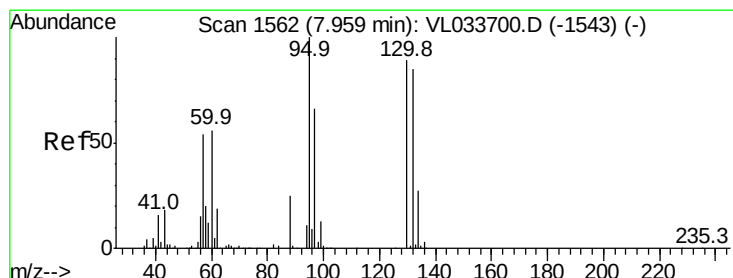
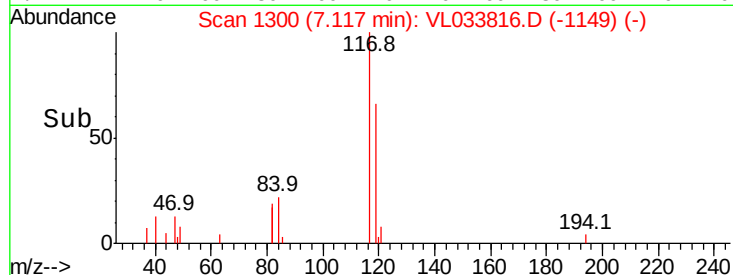
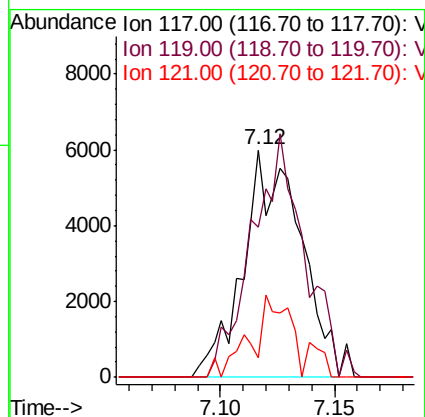
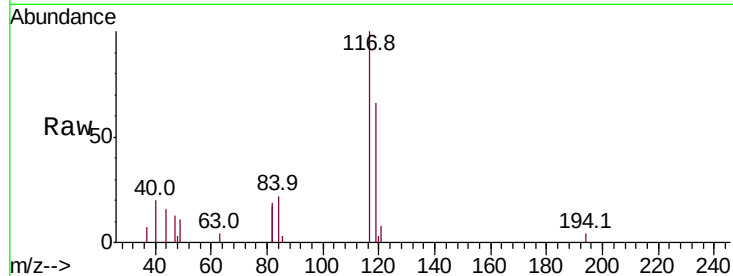
ClientSampleId :

BPS1-ODA-3004-04DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	65.9	77.2	115.8#
121	8.4	24.1	36.1#

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#38

Trichloroethene

Concen: 0.083 ppbv m

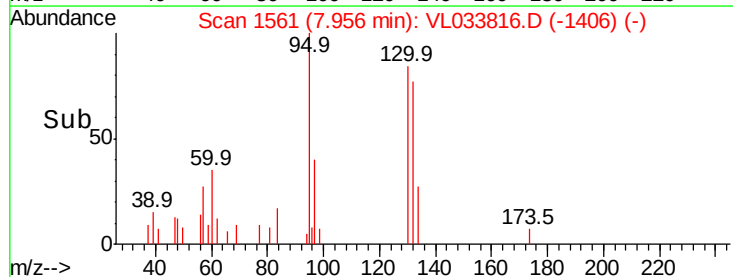
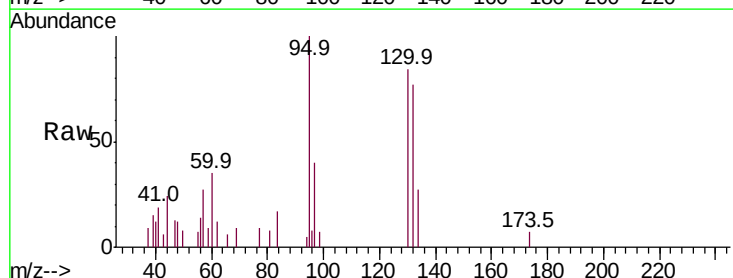
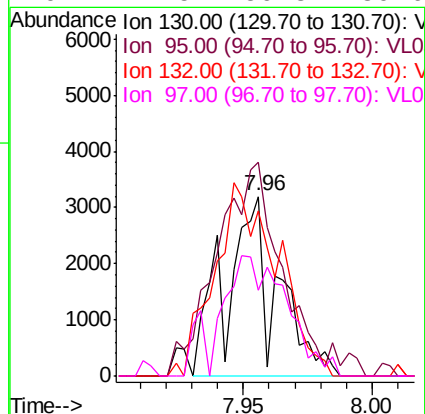
RT: 7.96 min Scan# 1561

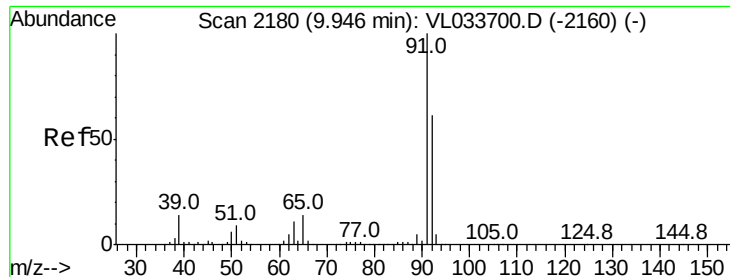
Delta R.T. -0.00 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.8	90.2	135.4
132	92.1	76.4	114.6
97	47.5	59.8	89.6#





#53

Toluene

Concen: 3.672 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3004-04DUP

Tot Ion: 91 Resp: 572800

Ion Ratio Lower Upper

91 100

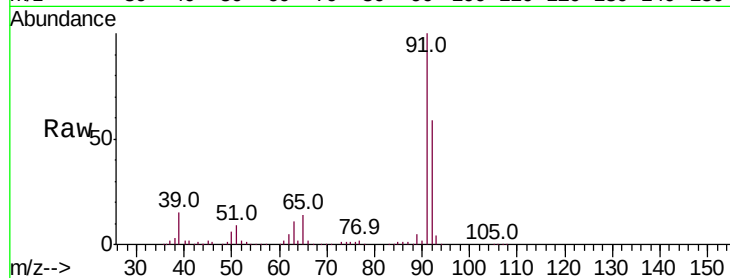
92 59.1 47.6 71.4

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.94

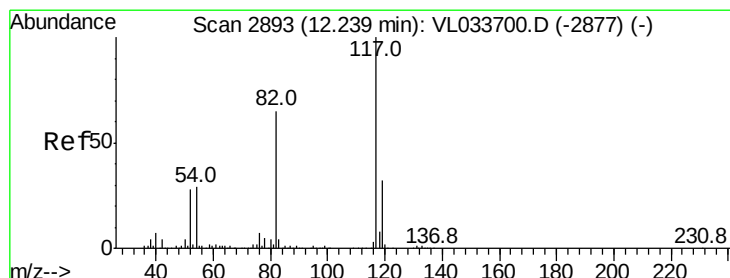
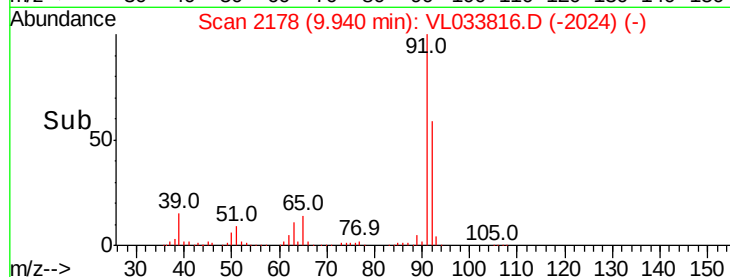
300000

200000

100000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033816.D

Acq: 28 May 2019 23:53

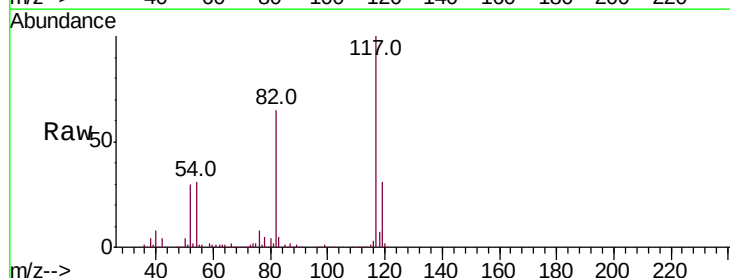
Tgt Ion: 117 Resp: 1581203

Ion Ratio Lower Upper

117 100

82 67.2 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

12.23

1000000

800000

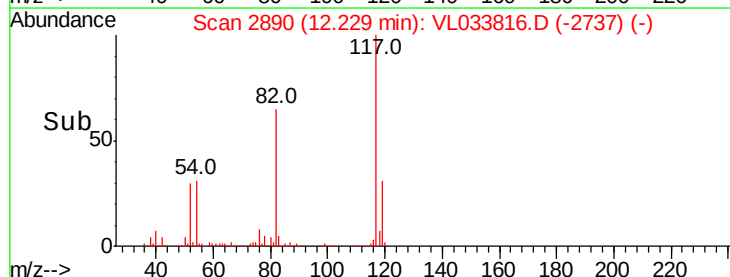
600000

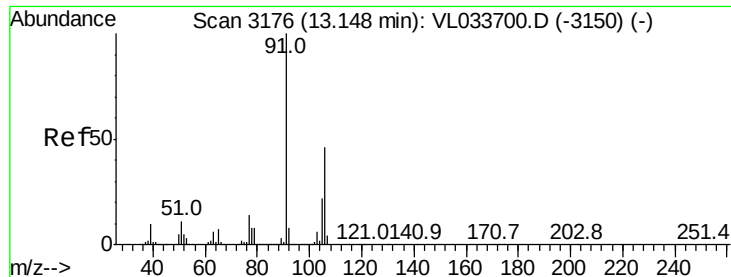
400000

200000

0

Time-->





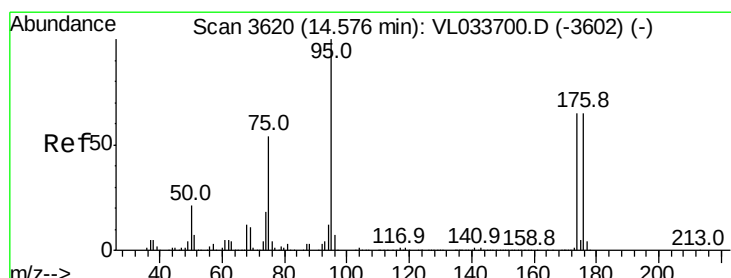
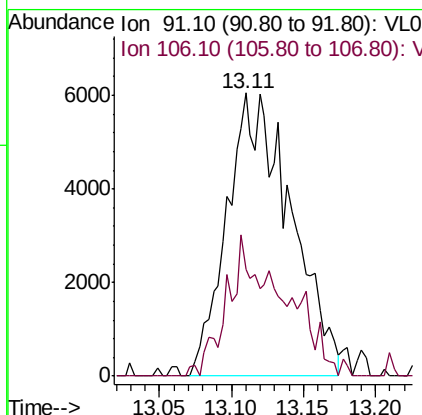
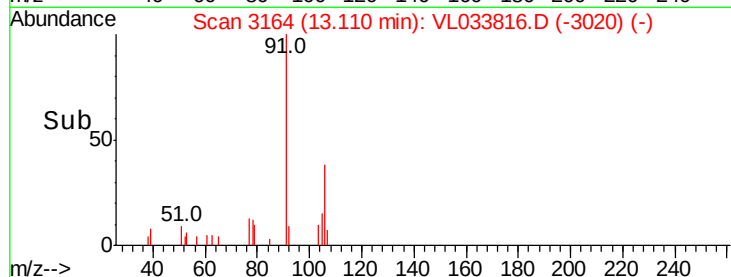
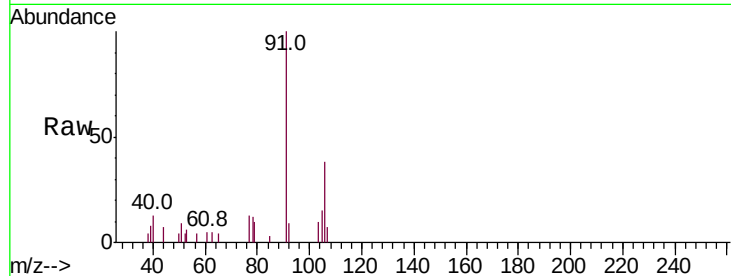
#59
m/p-Xylene
Concen: 0.102 ppbv m
RT: 13.11 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL033816.D
Acq: 28 May 2019 23:53

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3004-04DUP

Tot Ion: 91 Resp: 18722
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.078 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033816.D
Acq: 28 May 2019 23:53

Tgt Ion: 95 Resp: 1291833
Ion Ratio Lower Upper
95 100
174 67.2 53.9 80.9
175 4.7 3.8 5.8

