

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032863.D
 Acq On : 1 Dec 2018 00:15
 Operator : SY/AP
 Sample : J6132-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DSV-04

Manual Integrations
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MMDadoda
 12/3/2018 4:16:23 PM

Quant Time: Dec 03 16:28:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1478505	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3745098	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3753623	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2889026	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	59936	0.282	ppbv	99
3) Chlorodifluoromethane	3.02	51	31750m	0.271	ppbv	
4) Chloromethane	3.18	50	11211	0.172	ppbv	97
9) Propene	3.04	41	147201	3.138	ppbv	97
10) Heptane	8.25	43	82006	0.458	ppbv	96
11) Trichlorofluoromethane	4.01	101	63321	0.316	ppbv	99
13) Ethanol	3.67	45	1038746	67.608	ppbv	99
15) Acetone	3.90	43	1454389	10.772	ppbv #	66
20) Methylene Chloride	4.42	84	766177	10.961	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	35757	0.455	ppbv	90
26) Hexane	5.79	57	2245181	16.027	ppbv #	44
34) 2-Butanone	5.33	43	2965539	15.267	ppbv	99
35) Carbon Tetrachloride	7.14	117	17247m	0.057	ppbv	
36) Benzene	7.01	78	85214	0.286	ppbv	99
38) Trichloroethene	7.97	130	5230m	0.043	ppbv	
51) 2-Hexanone	10.28	43	347529	1.778	ppbv #	99
52) Tetrachloroethene	11.38	164	29682	0.286	ppbv #	85
53) Toluene	9.96	91	1544910	4.966	ppbv	100
58) Ethyl Benzene	12.87	91	138908	0.307	ppbv	93
59) m/p-Xylene	13.13	91	352618m	0.877	ppbv	
60) o-Xylene	13.86	91	130807	0.323	ppbv	94
61) Styrene	13.70	104	60486	0.230	ppbv	93
69) p-Isopropyltoluene	17.82	119	97232	0.173	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.94	105	182042	0.393	ppbv #	67

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

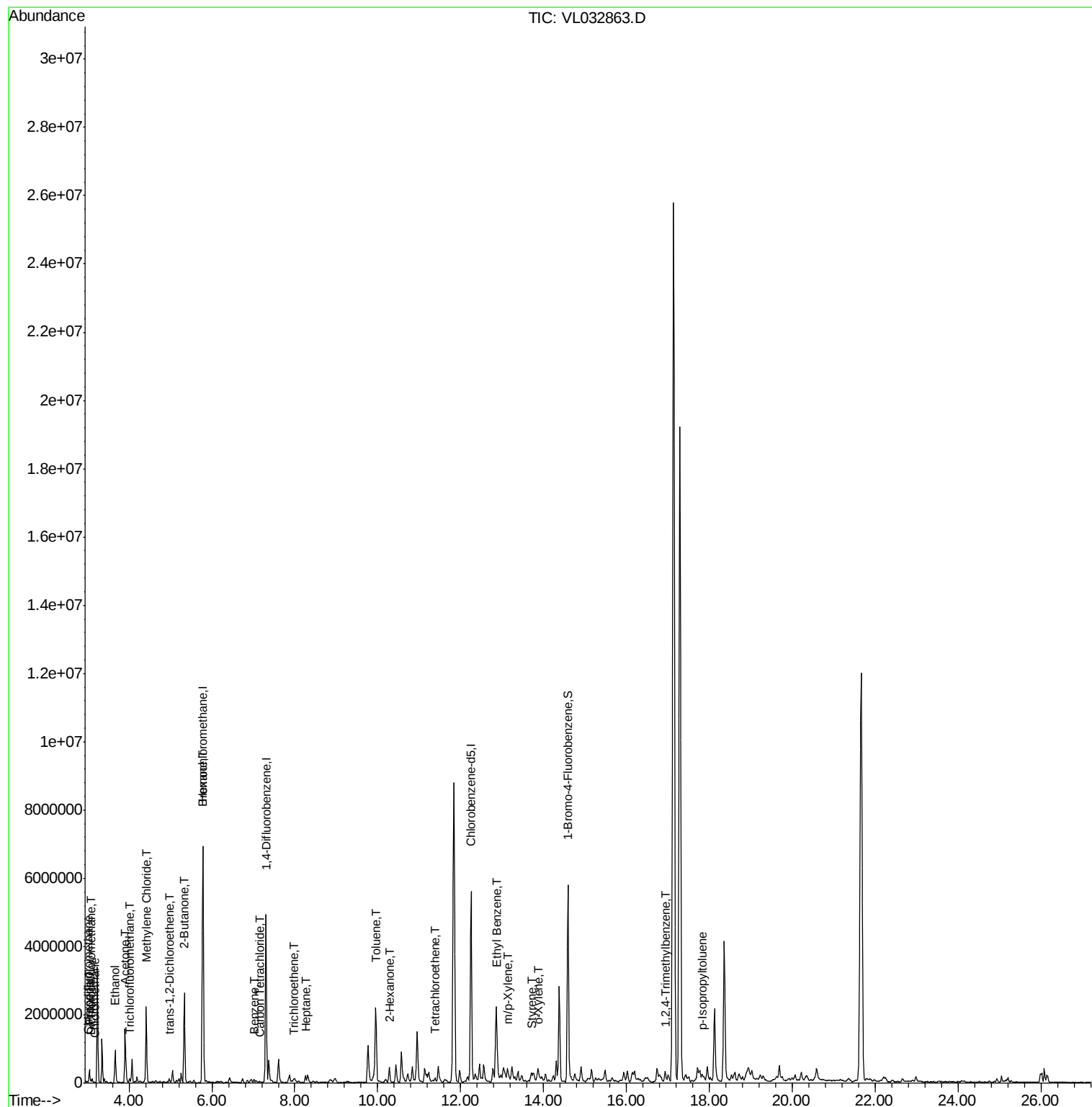
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL113018\
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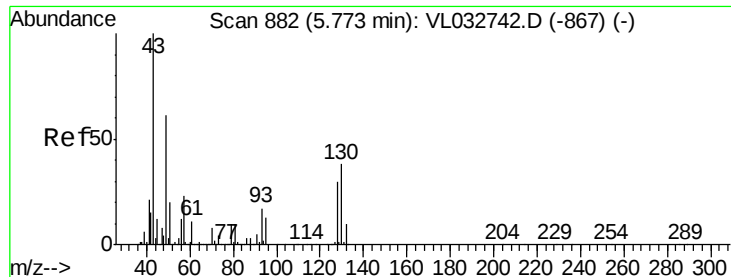
Instrument :
MSVOA_L
ClientSampleId :
DSV-04

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12/3/2018 4:16:23 PM

Quant Time: Dec 03 16:28:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032863.D

Acq: 1 Dec 2018 00:15

Instrument :

MSVOA_L

ClientSampled :

DSV-04

Tot Ion: 49 Resp: 1478505

Ion Ratio Lower Upper

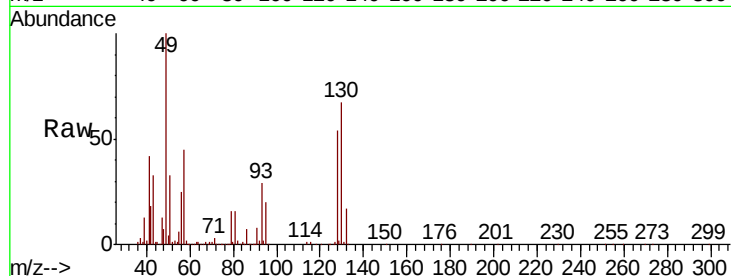
49 100

128 52.8 24.9 74.6

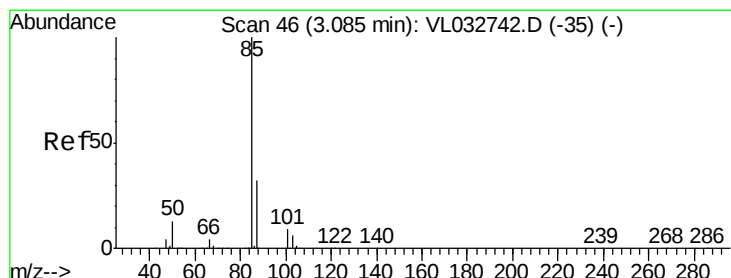
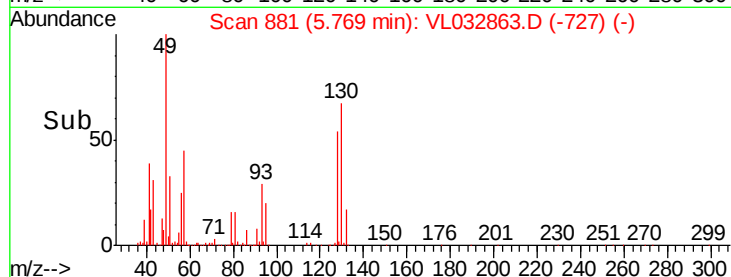
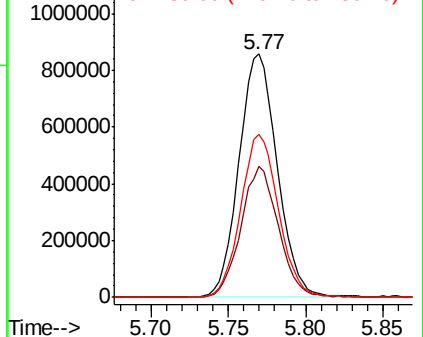
130 66.6 31.4 94.2

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.282 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032863.D

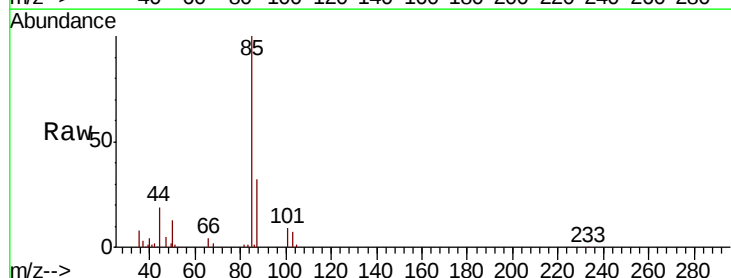
Acq: 1 Dec 2018 00:15

Tgt Ion: 85 Resp: 59936

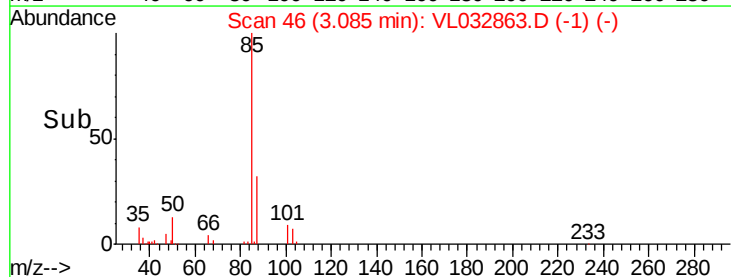
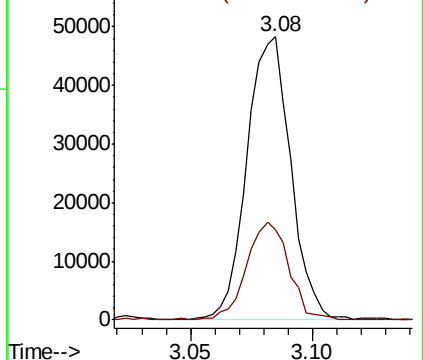
Ion Ratio Lower Upper

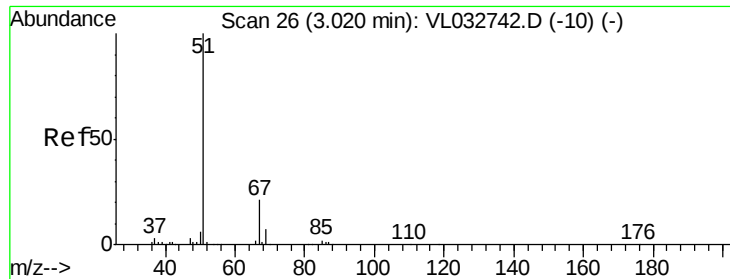
85 100

87 31.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

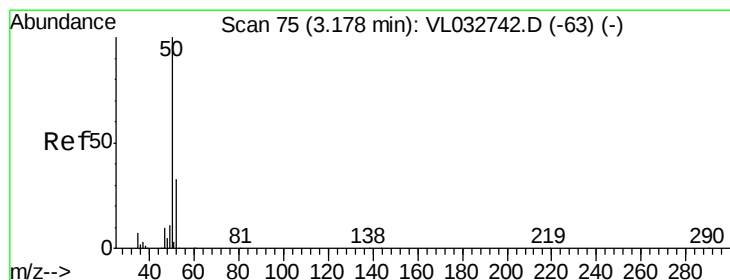
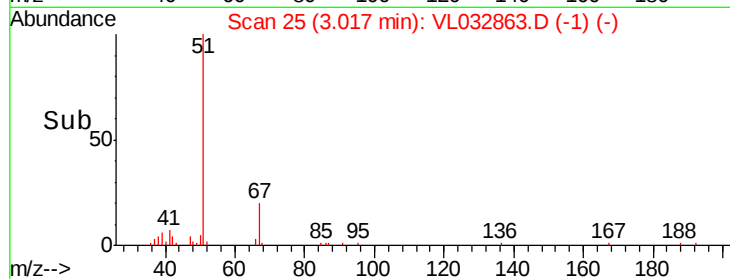
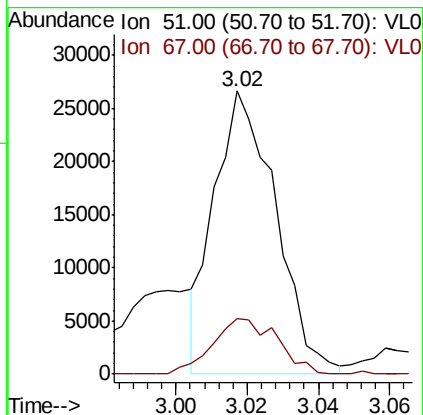
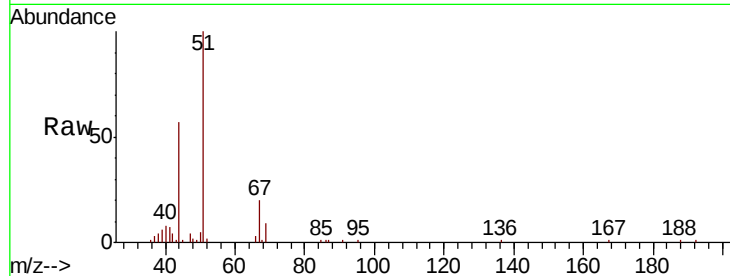
Chlorodifluoromethane
Concen: 0.271 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
DSV-04

Tot Ion	51	Resp	31750
Ion Ratio	100	Lower	Upper
51	100		
67	20.7	16.1	24.1

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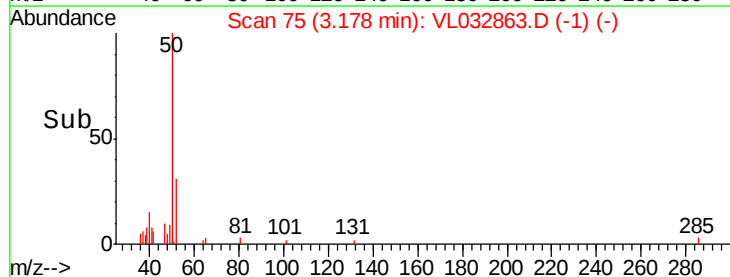
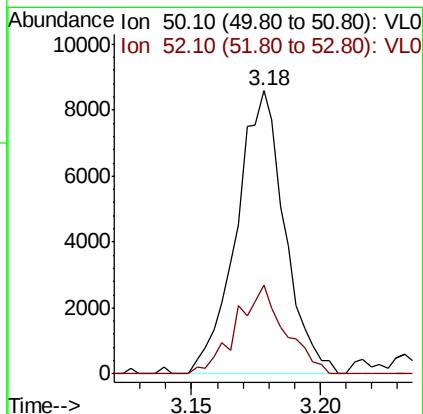
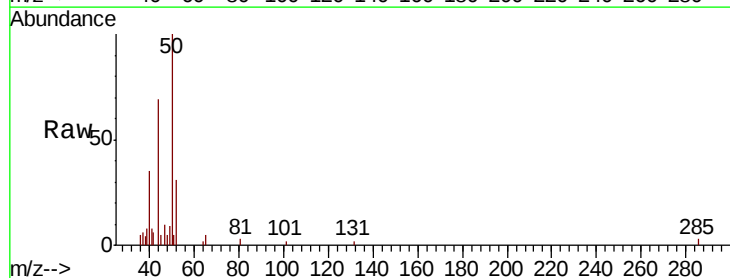
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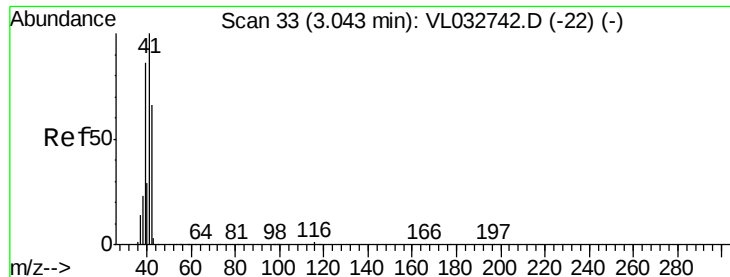


#4

Chloromethane
Concen: 0.172 ppbv
RT: 3.18 min Scan# 75
Delta R.T. -0.00 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Tgt Ion	50	Resp	11211
Ion Ratio	100	Lower	Upper
50	100		
52	31.5	26.6	40.0





#9

Propene

Concen: 3.138 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032863.D

Acq: 1 Dec 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

DSV-04

Tot Ion: 41 Resp: 147201

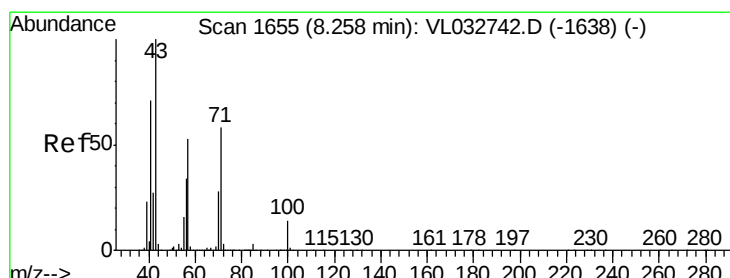
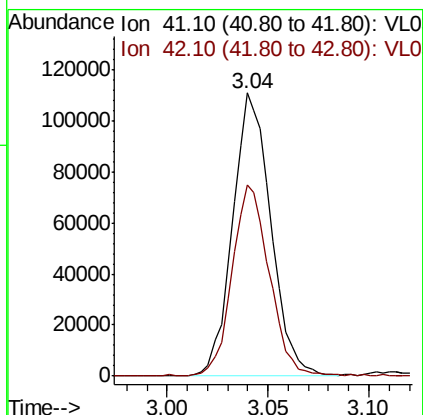
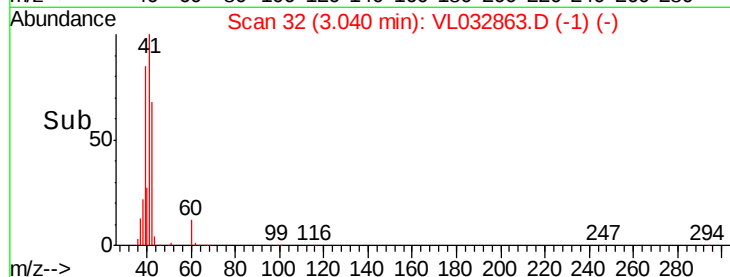
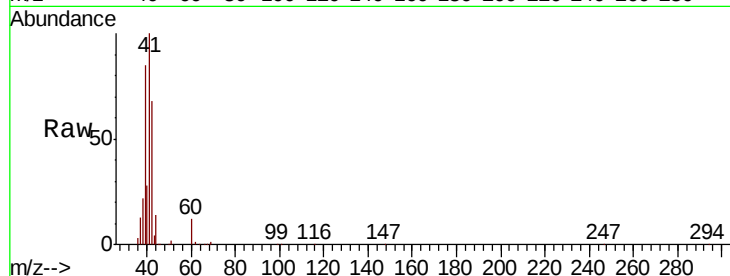
Ion Ratio Lower Upper

41 100

42 66.2 55.0 82.6

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#10

Heptane

Concen: 0.458 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032863.D

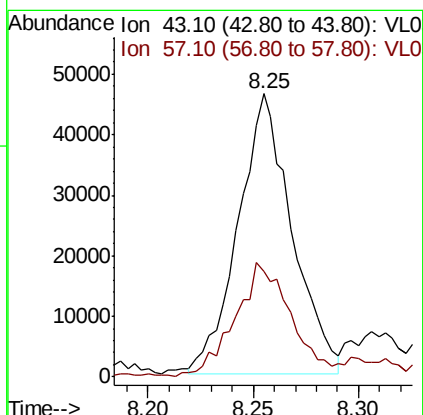
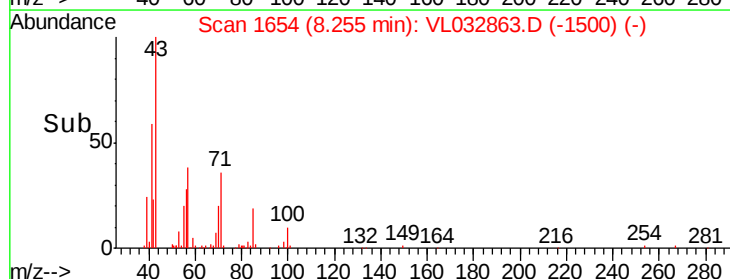
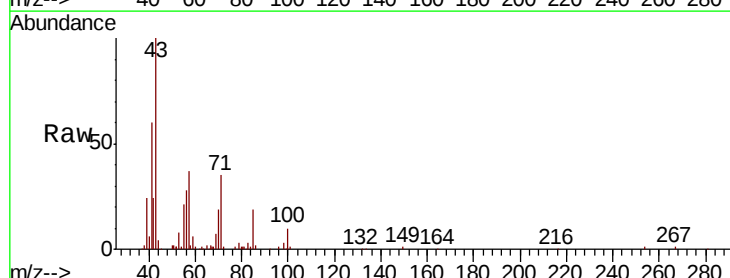
Acq: 1 Dec 2018 00:15

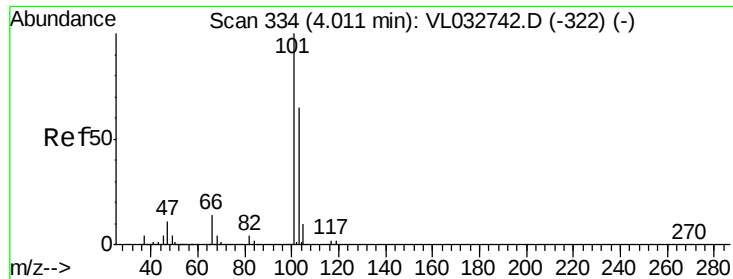
Tgt Ion: 43 Resp: 82006

Ion Ratio Lower Upper

43 100

57 49.7 41.8 62.8





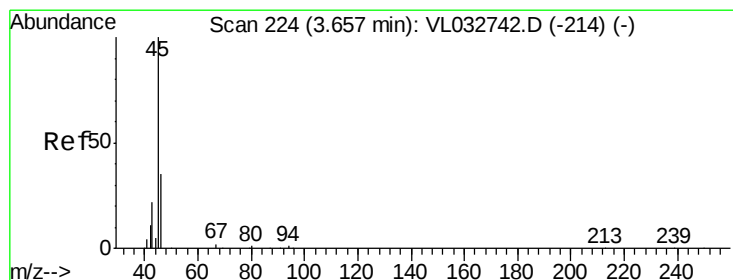
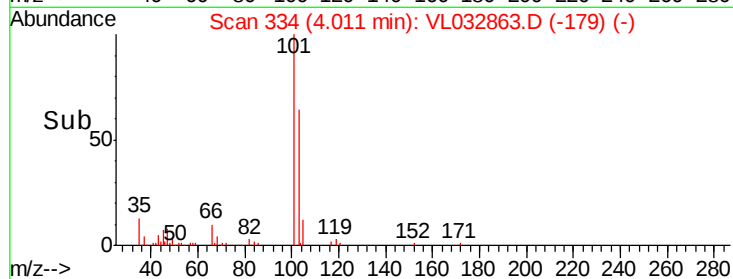
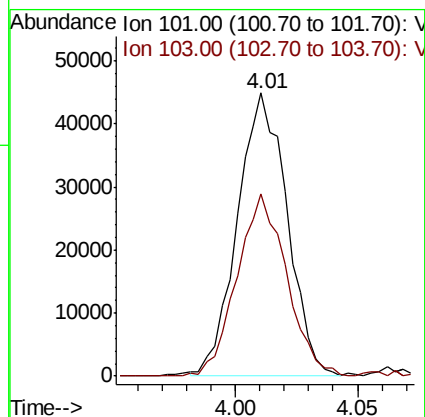
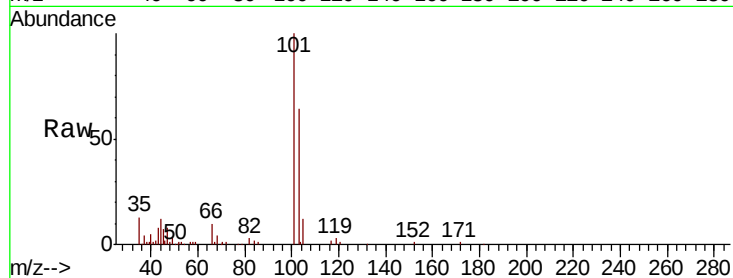
#11
 Trichlorofluoromethane
 Concen: 0.316 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Instrument :
 MSVOA_L
 ClientSampled :
 DSV-04

Tot Ion:101 Resp: 63321
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.6 77.4

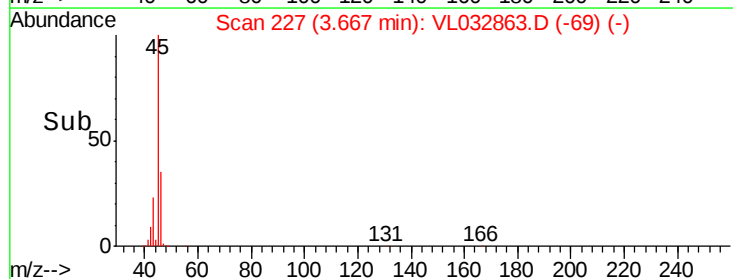
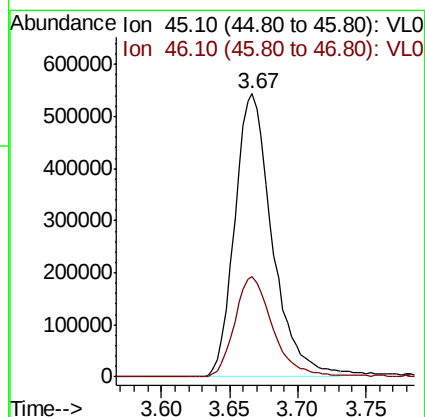
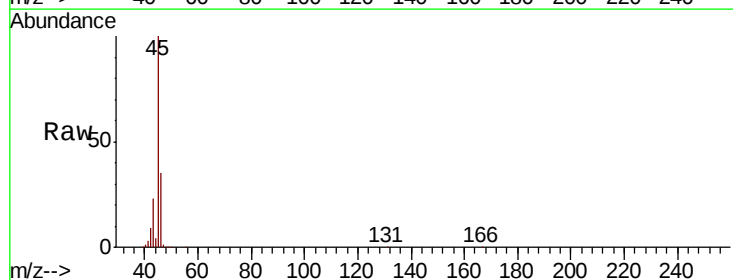
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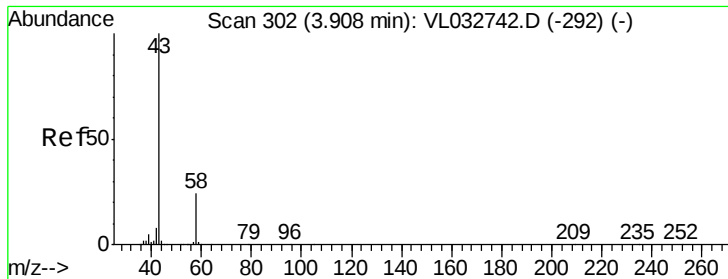
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 12/3/2018 4:16:23 PM



#13
 Ethanol
 Concen: 67.608 ppbv
 RT: 3.67 min Scan# 227
 Delta R.T. 0.01 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Tgt Ion: 45 Resp: 1038746
 Ion Ratio Lower Upper
 45 100
 46 36.6 14.5 57.9





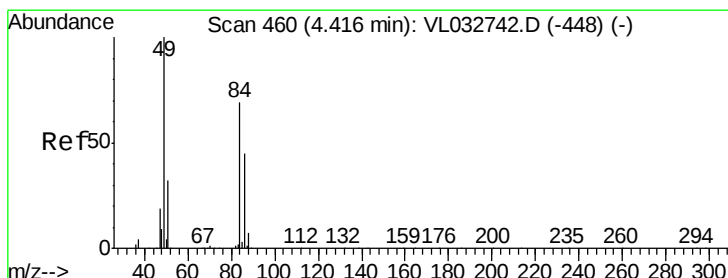
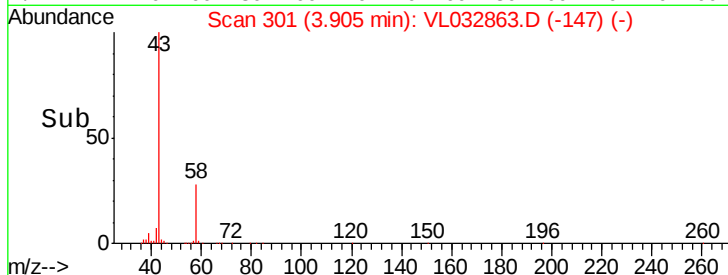
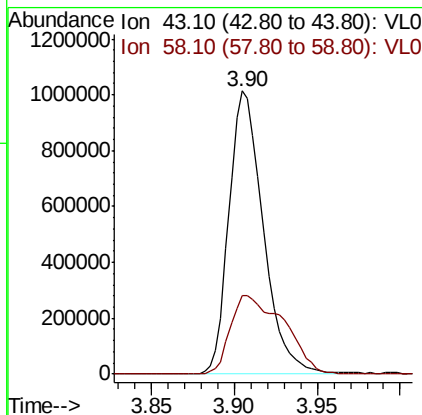
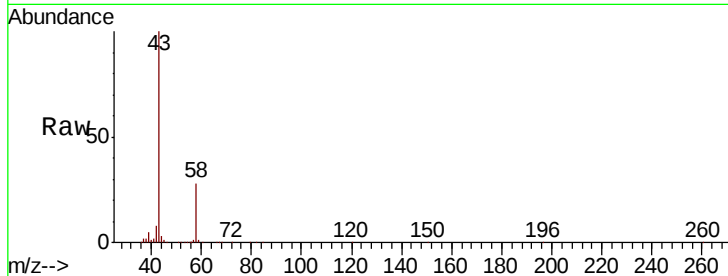
#15
Acetone
Concen: 10.772 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Instrument :
MSVOA_L
ClientSampled :
DSV-04

Tot Ion: 43 Resp: 1454389
Ion Ratio Lower Upper
43 100
58 44.1 21.1 31.7#

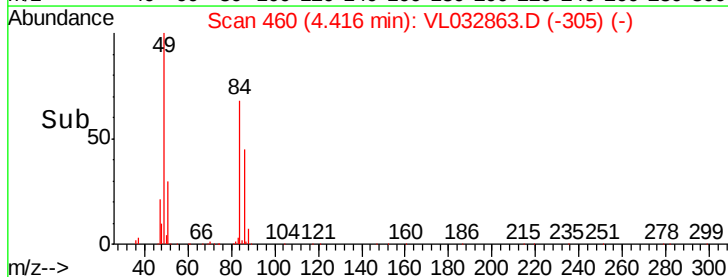
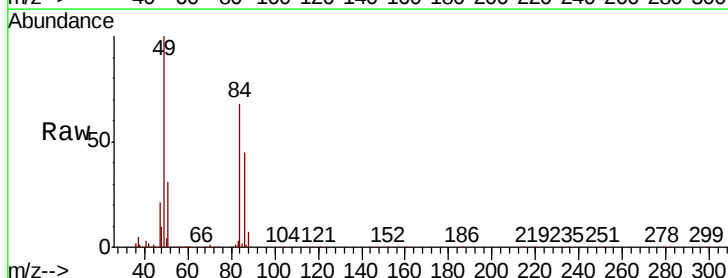
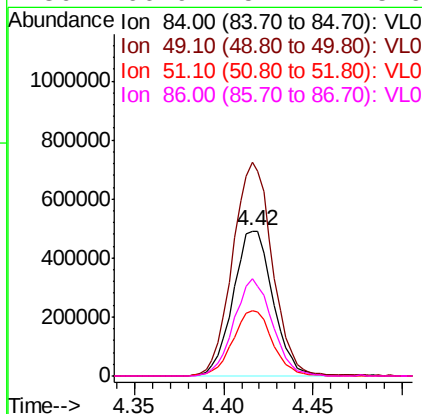
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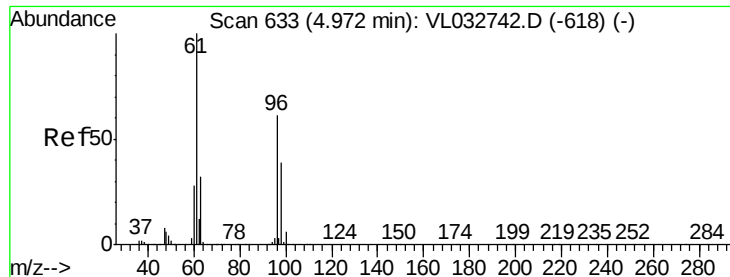
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#20
Methylene Chloride
Concen: 10.961 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Tgt Ion: 84 Resp: 766177
Ion Ratio Lower Upper
84 100
49 147.4 115.8 173.6
51 44.9 36.9 55.3
86 66.9 52.4 78.6





#22

trans-1,2-Dichloroethene

Concen: 0.455 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.01 min

Lab File: VL032863.D

Acq: 1 Dec 2018 00:15

Instrument :

MSVOA_L

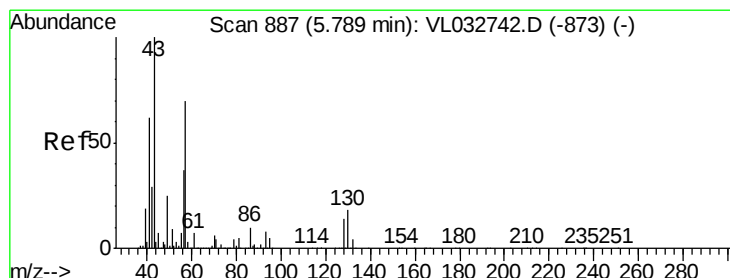
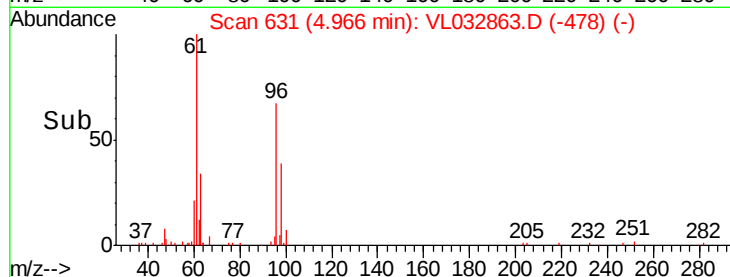
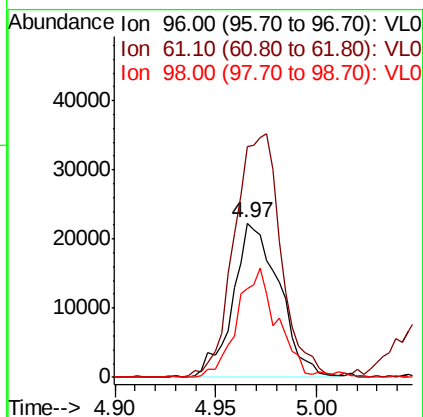
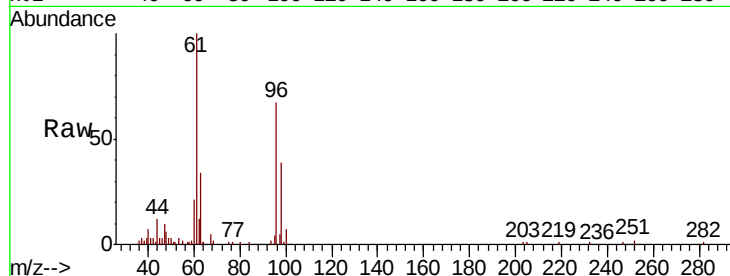
ClientSampleId :

DSV-04

Tot Ion:	96	Resp:	35757
Ion	Ratio	Lower	Upper
96	100		
61	148.0	130.2	195.2
98	57.6	50.2	75.2

Manual Integrations
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#26

Hexane

Concen: 16.027 ppbv

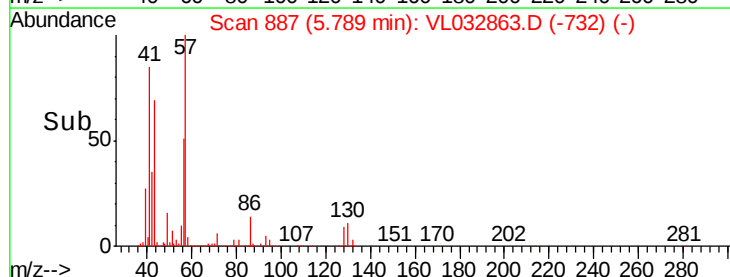
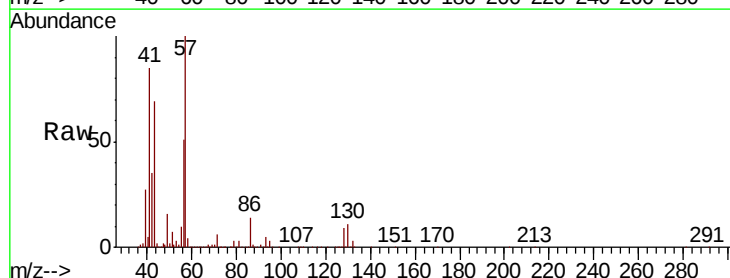
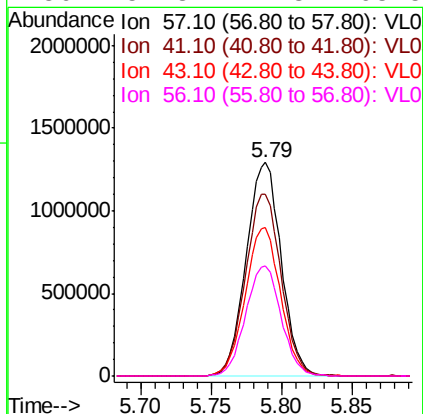
RT: 5.79 min Scan# 887

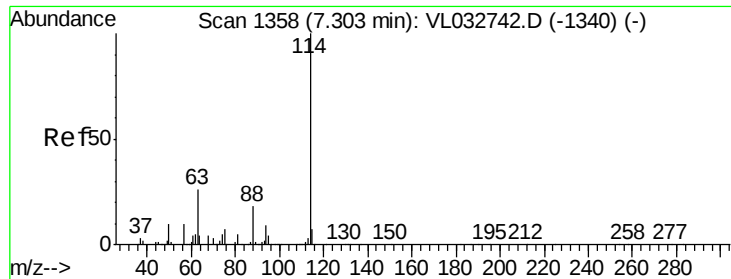
Delta R.T. -0.00 min

Lab File: VL032863.D

Acq: 1 Dec 2018 00:15

Tgt Ion:	57	Resp:	2245181
Ion	Ratio	Lower	Upper
57	100		
41	87.3	70.3	105.5
43	70.2	174.0	261.0#
56	52.3	42.3	63.5





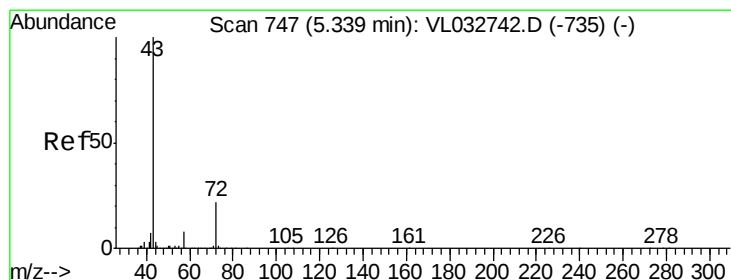
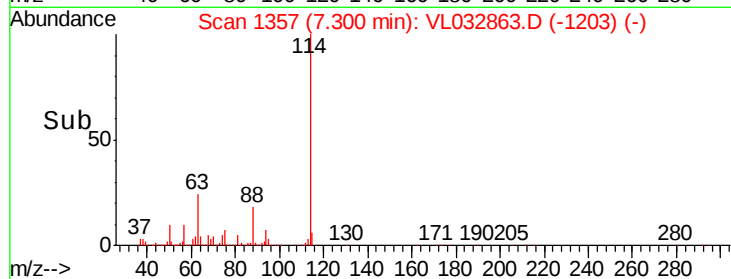
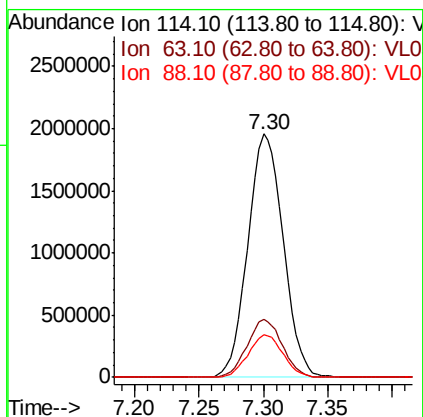
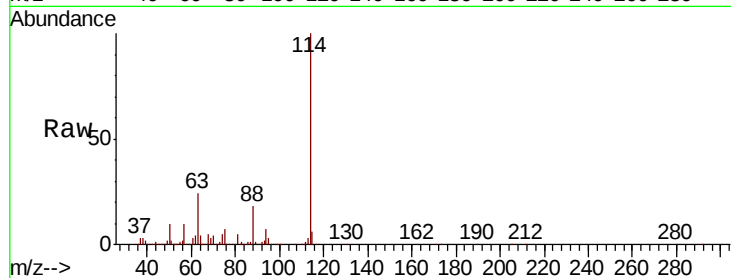
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Instrument :
 MSVOA_L
 ClientSampled :
 DSV-04

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.7	20.9	31.3
88	17.3	14.4	21.6

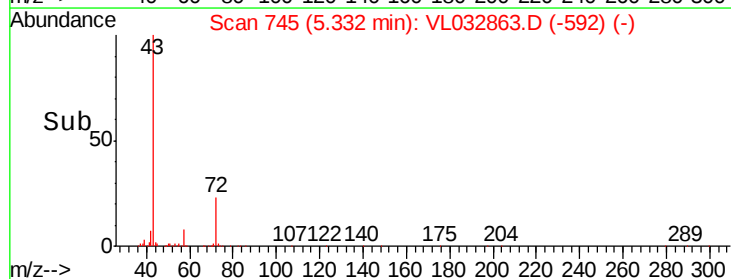
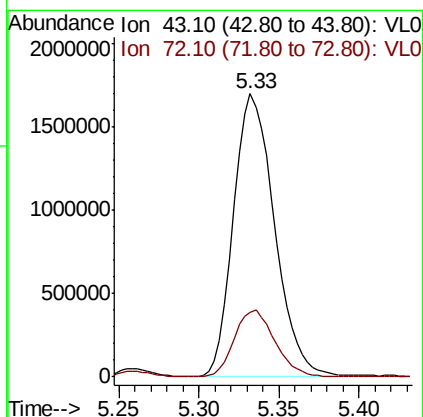
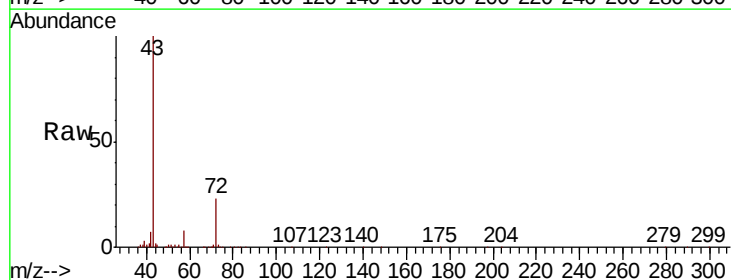
Manual Integrations
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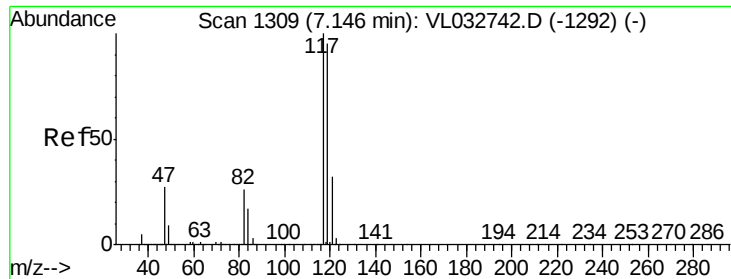
MMDadoda
 12/3/2018 4:16:23 PM



#34
 2-Butanone
 Concen: 15.267 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.4	27.6





#35

Carbon Tetrachloride

Concen: 0.057 ppbv m

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032863.D

Acq: 1 Dec 2018 00:15

Instrument :

MSVOA_L

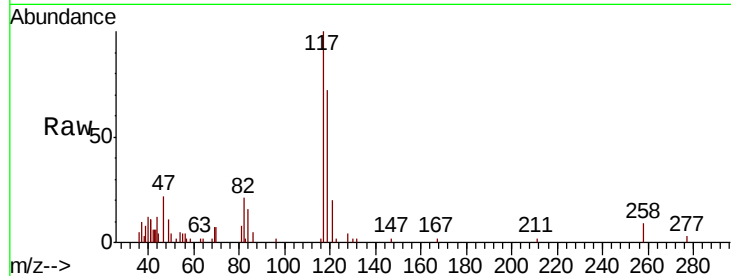
ClientSampled :

DSV-04

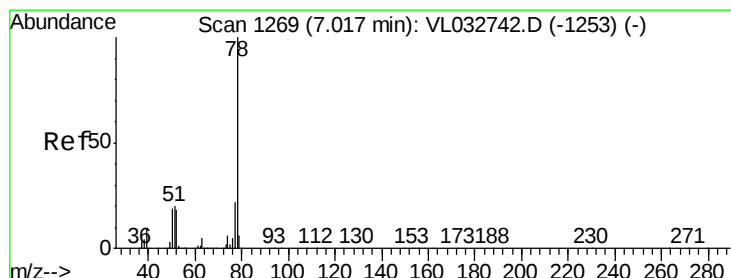
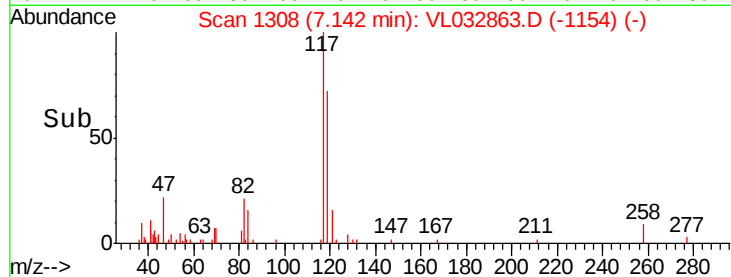
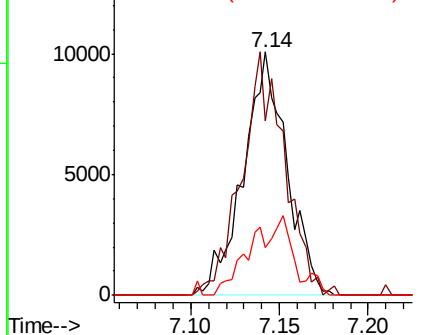
Tot Ion:	117	Resp:	17247
Ion Ratio	Lower	Upper	
117	100		
119	71.8	76.1	114.1#
121	19.7	25.4	38.0#

Manual Integrations
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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



#36

Benzene

Concen: 0.286 ppbv

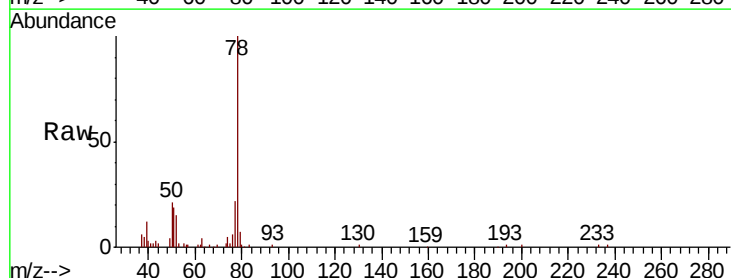
RT: 7.01 min Scan# 1267

Delta R.T. -0.01 min

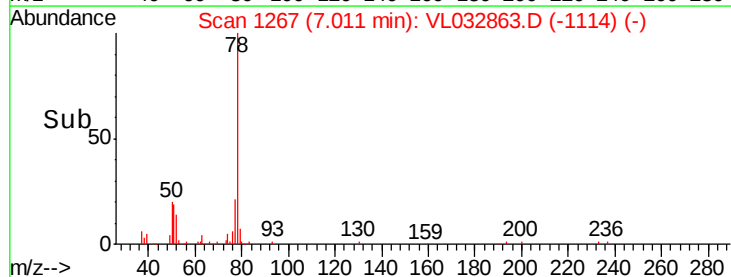
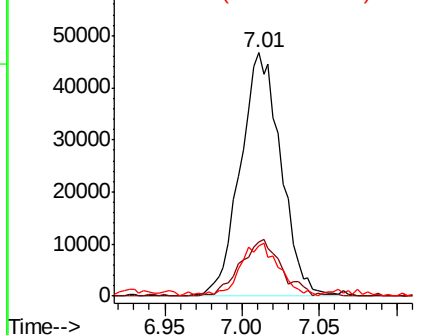
Lab File: VL032863.D

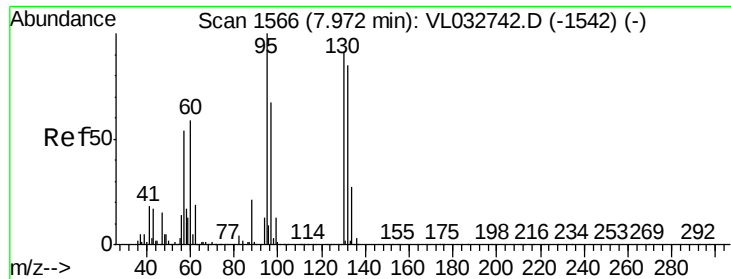
Acq: 1 Dec 2018 00:15

Tgt Ion:	78	Resp:	85214
Ion Ratio	Lower	Upper	
78	100		
77	22.0	17.8	26.8
50	18.9	15.4	23.0



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





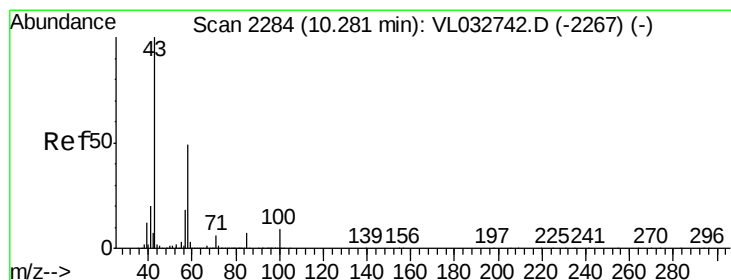
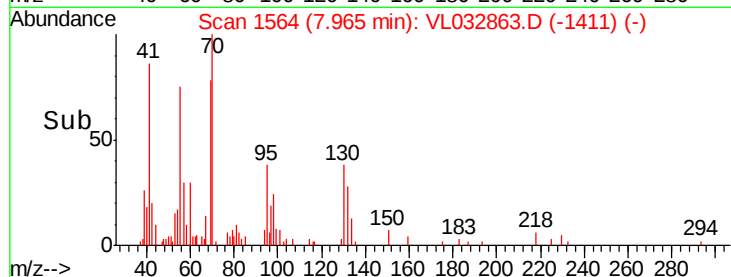
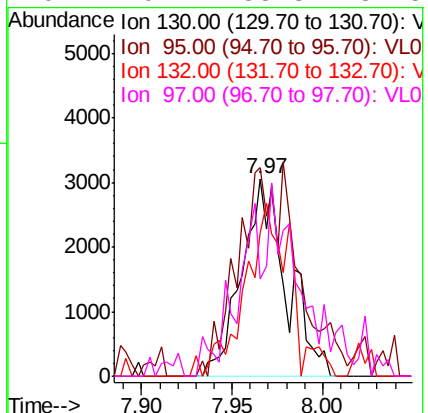
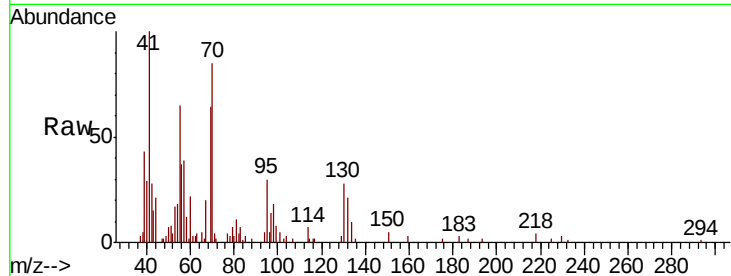
#38
 Trichloroethene
 Concen: 0.043 ppbv m
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleID :
 DSV-04

Tot Ion	Ratio	Lower	Upper
130	100		
95	105.6	87.7	131.5
132	73.0	74.6	111.8#
97	49.4	58.3	87.5#

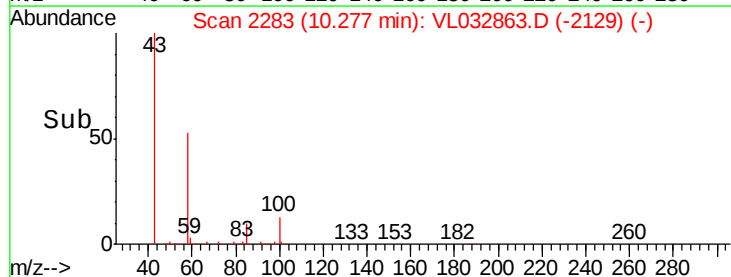
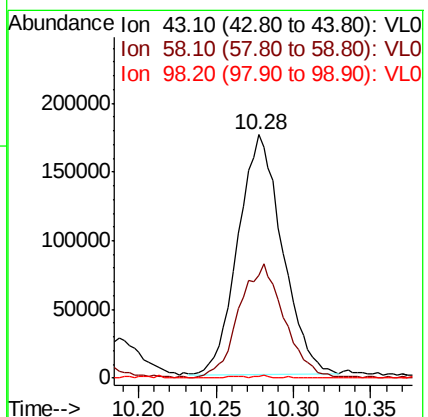
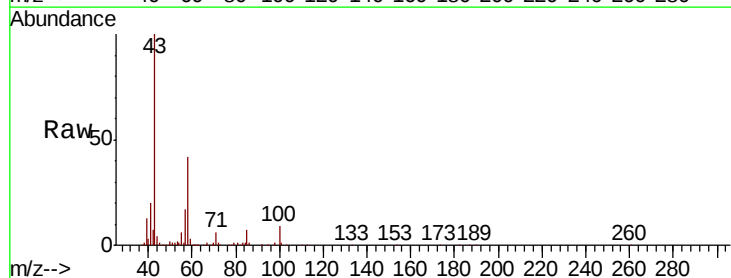
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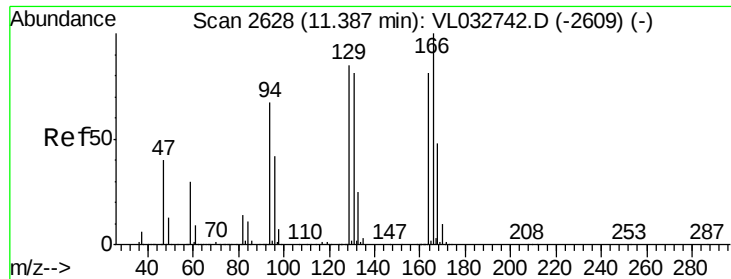
MMDadoda
 12/3/2018 4:16:23 PM



#51
 2-Hexanone
 Concen: 1.778 ppbv
 RT: 10.28 min Scan# 2283
 Delta R.T. -0.00 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	49.5	38.9	58.3
98	1.0	0.2	0.4#





#52

Tetrachloroethene

Concen: 0.286 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. -0.01 min

Lab File: VL032863.D

Acq: 1 Dec 2018 00:15

Instrument :

MSVOA_L

ClientSampleId :

DSV-04

Tot Ion:164 Resp: 29682

Ion Ratio Lower Upper

164 100

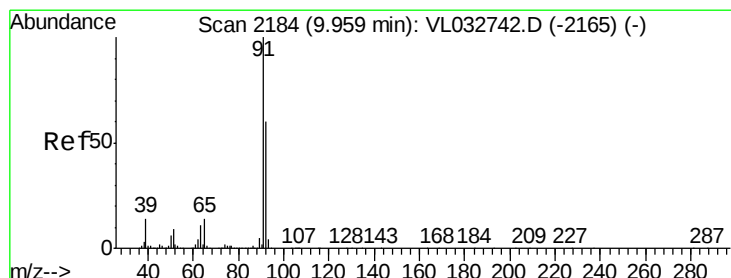
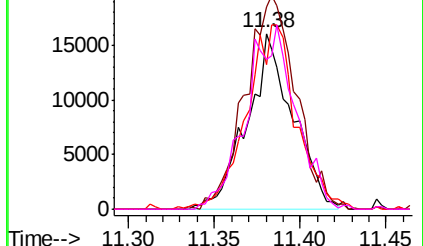
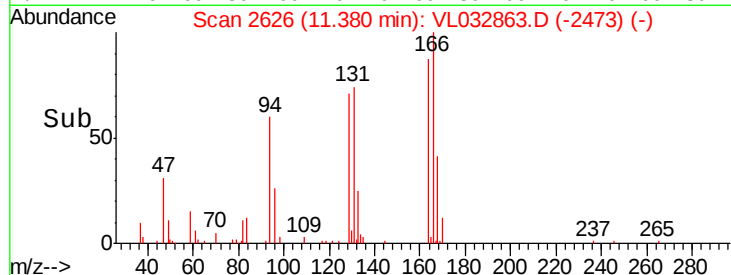
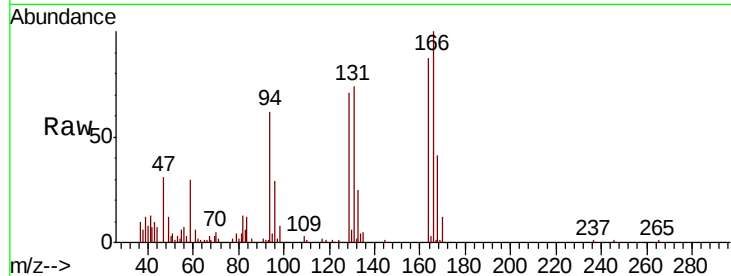
166 114.3 99.3 148.9

129 80.9 83.9 125.9#

131 85.6 80.8 121.2

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#53

Toluene

Concen: 4.966 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032863.D

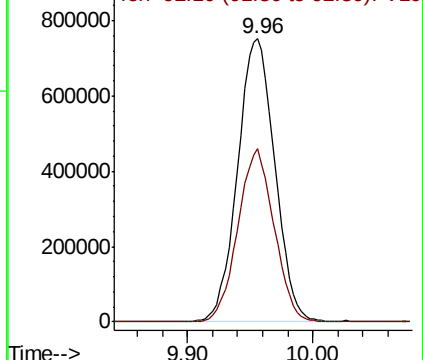
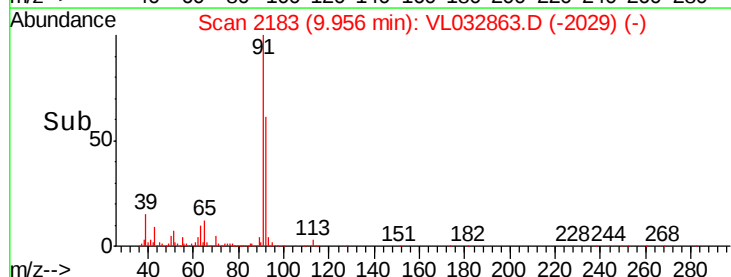
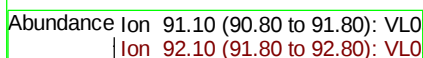
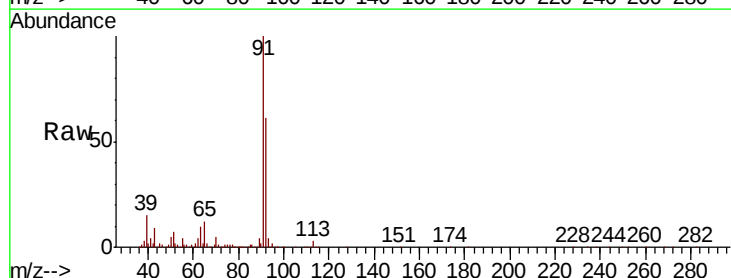
Acq: 1 Dec 2018 00:15

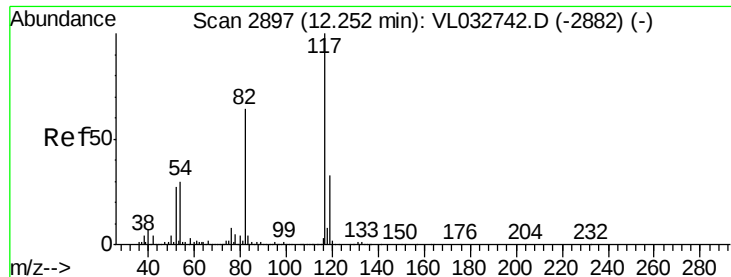
Tgt Ion: 91 Resp: 1544910

Ion Ratio Lower Upper

91 100

92 60.0 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032863.D

Acq: 1 Dec 2018 00:15

Instrument :

MSVOA_L

ClientSampled :

DSV-04

Tot Ion:117 Resp: 3753623

Ion Ratio Lower Upper

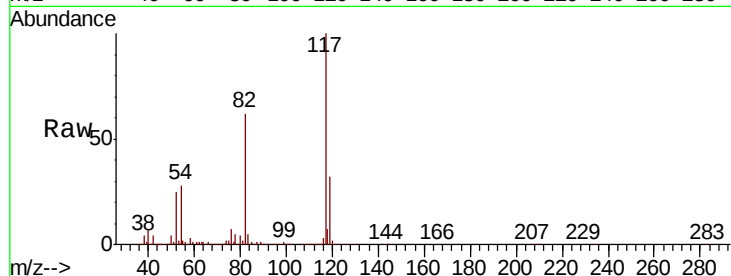
117 100

82 62.0 51.0 76.6

119 32.4 28.0 42.0

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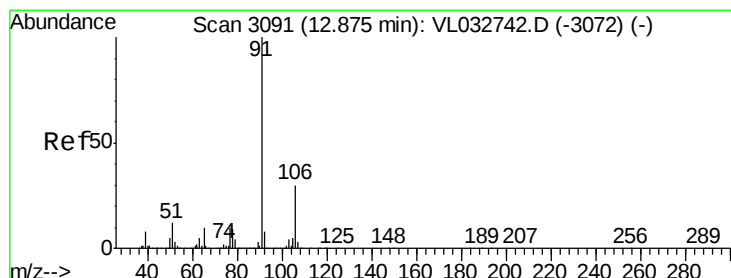
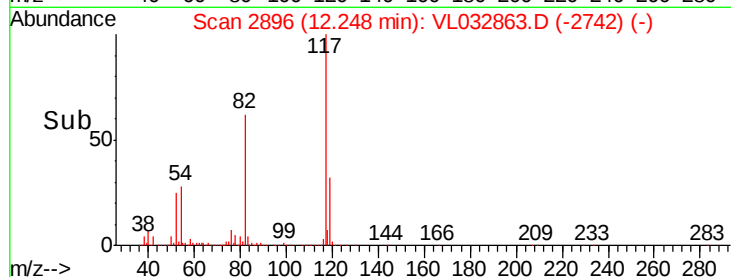
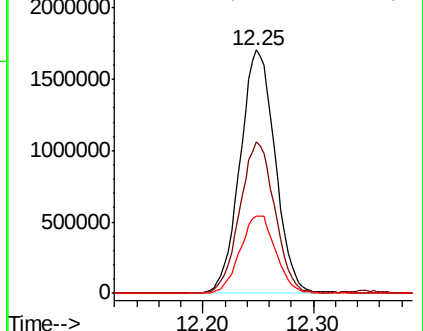
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.307 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032863.D

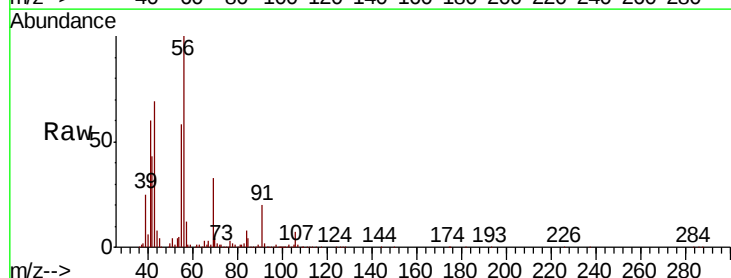
Acq: 1 Dec 2018 00:15

Tgt Ion: 91 Resp: 138908

Ion Ratio Lower Upper

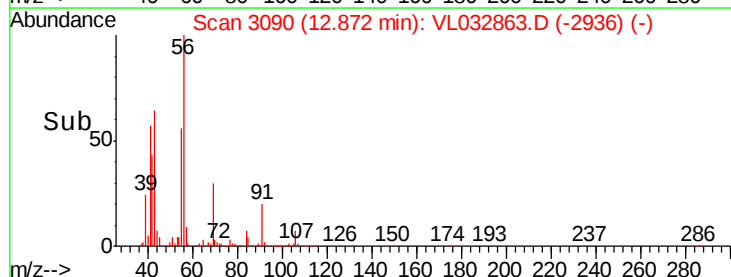
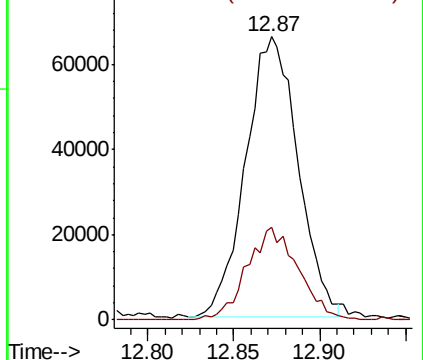
91 100

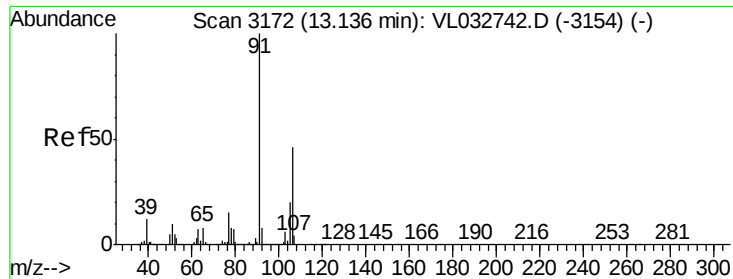
106 33.1 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





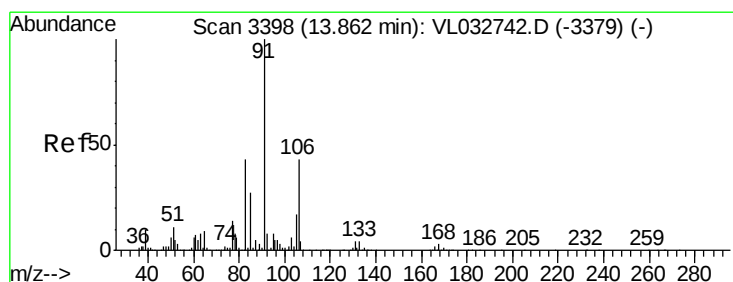
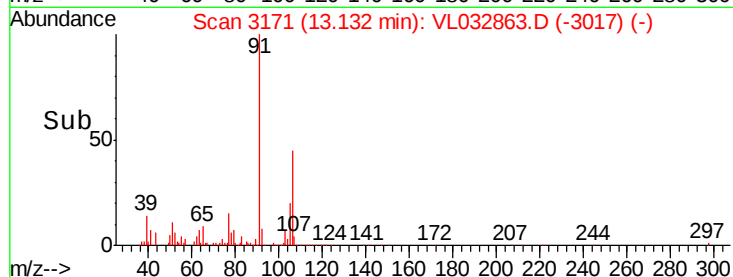
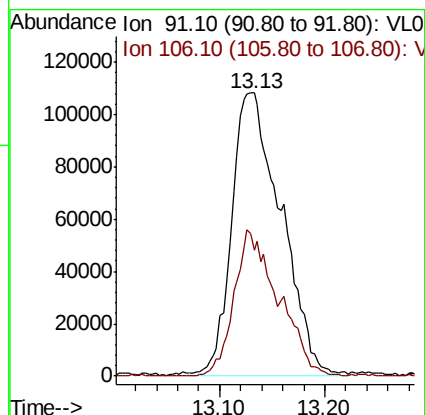
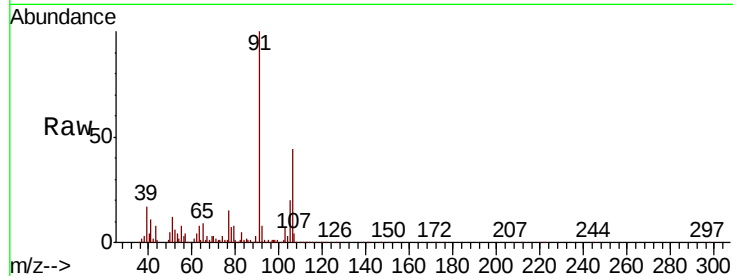
#59
m/p-Xylene
Concen: 0.877 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Instrument :
MSVOA_L
ClientSampleId :
DSV-04

Tot Ion: 91 Resp: 352618
Ion Ratio Lower Upper
91 100
106 46.9 36.1 54.1

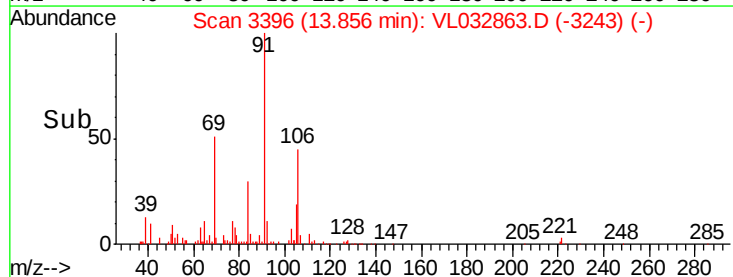
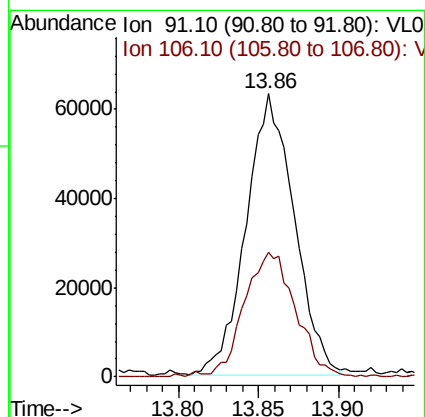
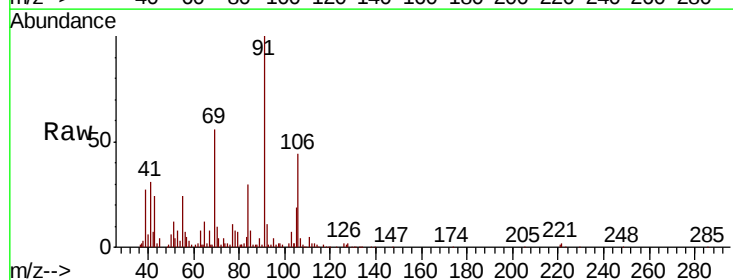
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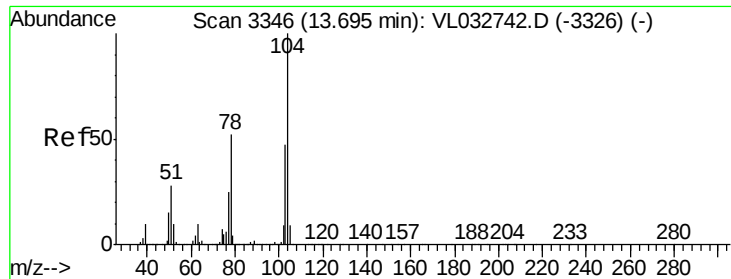
MMDadoda
12/3/2018 4:16:23 PM



#60
o-Xylene
Concen: 0.323 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Tgt Ion: 91 Resp: 130807
Ion Ratio Lower Upper
91 100
106 47.6 21.9 65.7





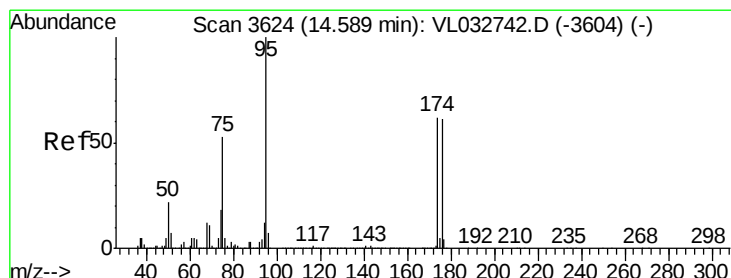
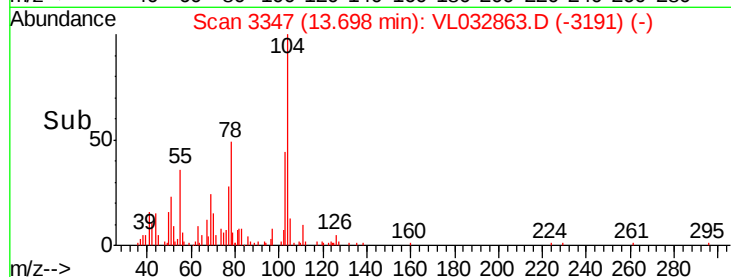
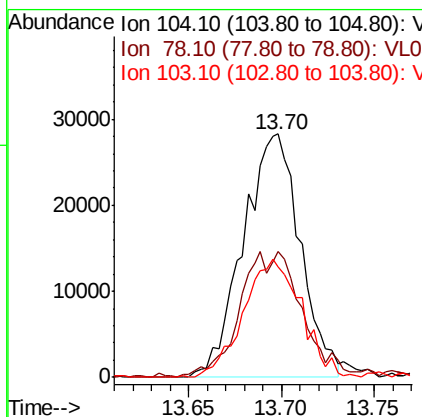
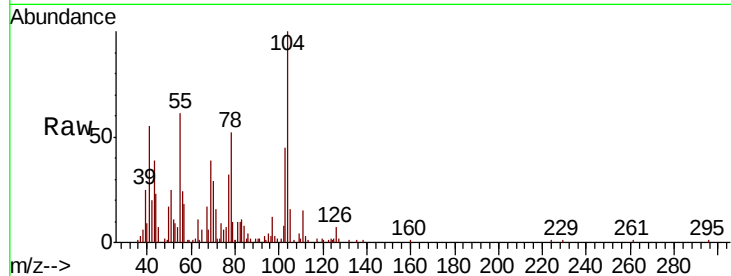
#61
Stvrene
Concen: 0.230 ppbv
RT: 13.70 min Scan# 3347
Delta R.T. 0.00 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Instrument :
MSVOA_L
ClientSampled :
DSV-04

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.4	42.2	63.4
103	50.0	38.2	57.2

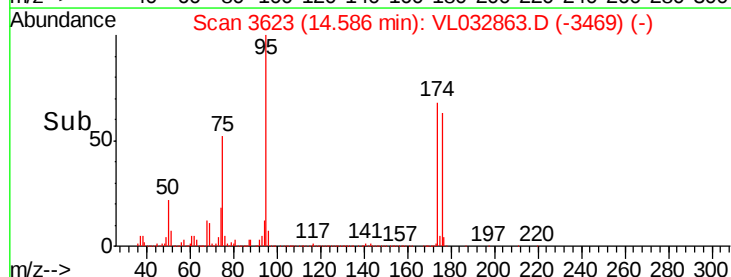
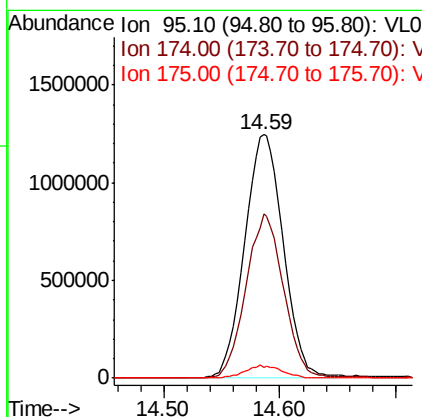
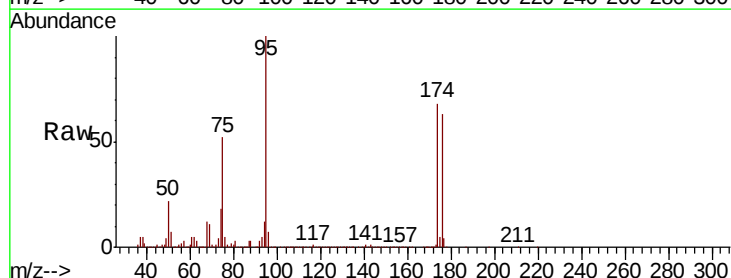
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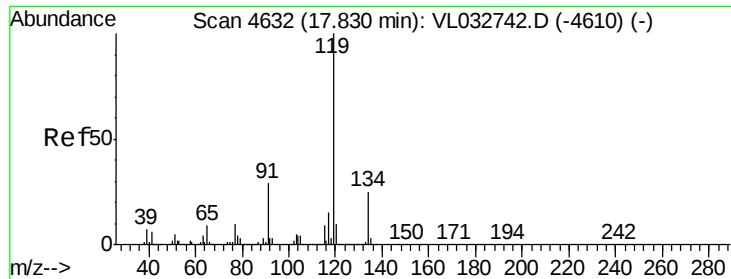
MMDadoda
12/3/2018 4:16:23 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.290 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032863.D
Acq: 1 Dec 2018 00:15

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.9	50.7	76.1
175	5.0	3.8	5.6





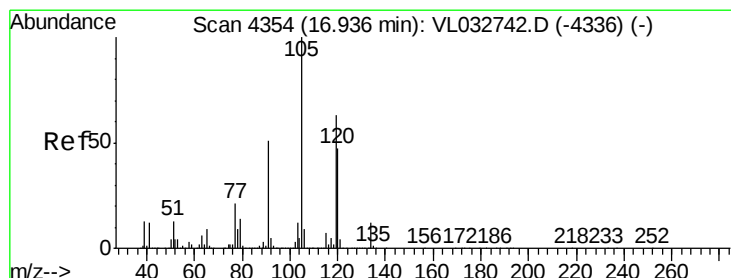
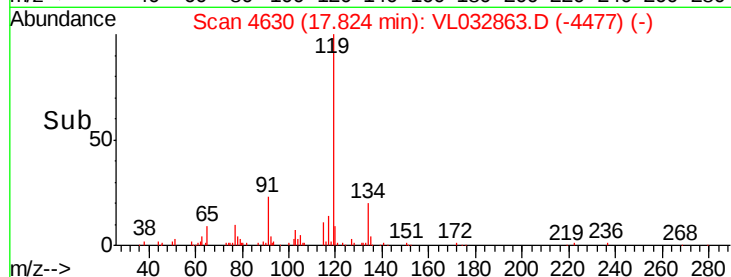
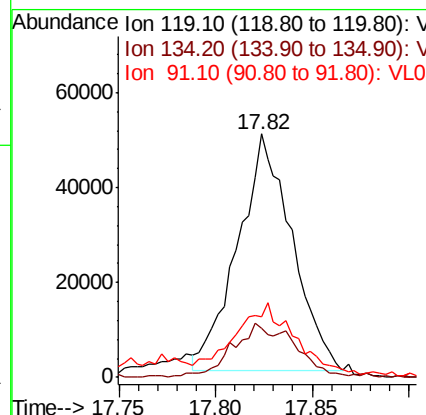
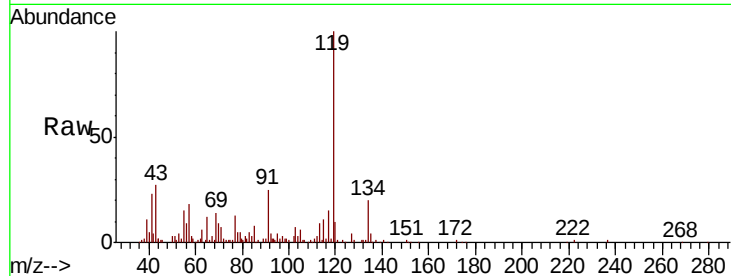
#69
 p-Isopropyltoluene
 Concen: 0.173 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Instrument :
 MSVOA_L
 ClientSampleId :
 DSV-04

Tot Ion	Ratio	Resp	Lower	Upper
119	100	97232		
134	26.7	20.2	30.4	
91	43.5	23.5	35.3	

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 12/3/2018 4:16:23 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.393 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. -0.00 min
 Lab File: VL032863.D
 Acq: 1 Dec 2018 00:15

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	182042		
120	40.2	37.6	56.4	
91	10.4	42.5	63.7	
77	12.8	17.4	26.2	

