

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033788.D
 Acq On : 24 May 2019 00:43
 Operator : SY/AP
 Sample : K2929-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3005-55

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:53:51 AM

Quant Time: May 24 07:18:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 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	5.76	49	888011	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2419066	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2535225	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.57	95	1981022	9.64	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	88107	0.471	ppbv	94
3) Chlorodifluoromethane	3.01	51	27705m	0.272	ppbv	
4) Chloromethane	3.17	50	9891	0.170	ppbv #	86
9) Propene	3.03	41	5303910	122.592	ppbv	96
10) Heptane	8.24	43	303211	2.475	ppbv	98
11) Trichlorofluoromethane	4.00	101	144402	0.808	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	19230	0.154	ppbv	100
13) Ethanol	3.66	45	1375045	98.331	ppbv	98
15) Acetone	3.89	43	10036349	81.459	ppbv #	81
17) tert-Butyl alcohol	4.36	59	420296	4.219	ppbv	98
20) Methylene Chloride	4.41	84	75815	1.598	ppbv #	89
26) Hexane	5.78	57	435635	4.682	ppbv #	1
27) Carbon Disulfide	4.62	76	251218	1.968	ppbv	99
29) Chloroform	5.85	83	73812	0.431	ppbv	92
30) Cyclohexane	7.24	84	47095m	0.602	ppbv	
32) 1,1,1-Trichloroethane	6.62	97	12860	0.075	ppbv	98
34) 2-Butanone	5.32	43	2759148	18.401	ppbv	97
35) Carbon Tetrachloride	7.13	117	4856m	0.025	ppbv	
36) Benzene	7.00	78	500767	2.276	ppbv	99
38) Trichloroethene	7.96	130	3264m	0.040	ppbv	
44) 2,2,4-Trimethylpentane	7.98	57	100109	0.269	ppbv #	45
50) 4-Methyl-2-Pentanone	8.87	43	148075	0.642	ppbv	98
51) 2-Hexanone	10.26	43	262635	1.459	ppbv #	93
52) Tetrachloroethene	11.36	164	14539m	0.188	ppbv	
53) Toluene	9.94	91	3911640	16.481	ppbv	99
58) Ethyl Benzene	12.86	91	389320	1.160	ppbv	96
59) m/p-Xylene	13.11	91	1054976	3.595	ppbv	97
60) o-Xylene	13.84	91	352407	1.191	ppbv	96
61) Styrene	13.68	104	24362	0.122	ppbv	93
62) Isopropylbenzene	14.82	105	39267	0.099	ppbv	97
72) 4-Ethyltoluene	15.99	105	95435	0.282	ppbv	94
73) 1,3,5-Trimethylbenzene	16.15	105	56070	0.170	ppbv	97
74) 1,2,4-Trimethylbenzene	16.91	105	183966	0.512	ppbv #	70

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

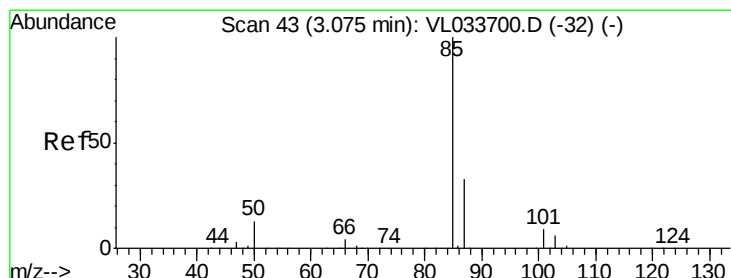
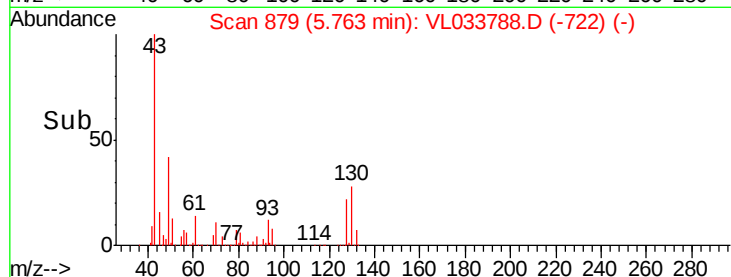
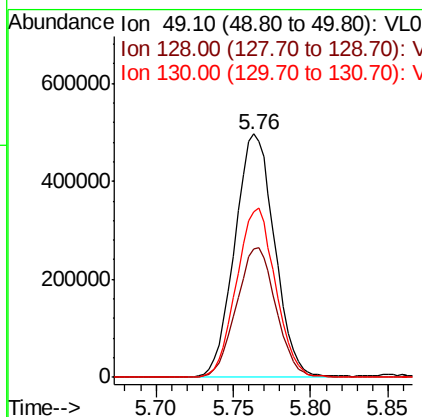
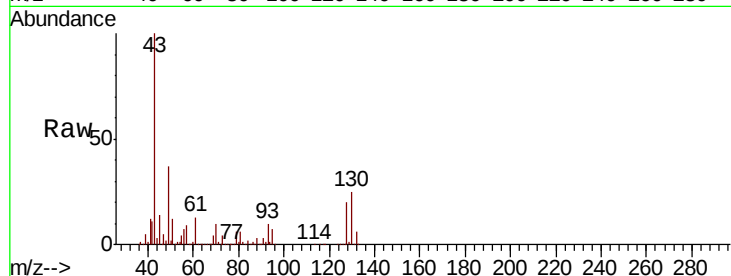
ClientSampleId :

BPS1-SG-3005-55

Tot Ion:	49	Resp:	888011
Ion	Ratio	Lower	Upper
49	100		
128	53.2	25.2	75.6
130	68.4	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 0.471 ppbv

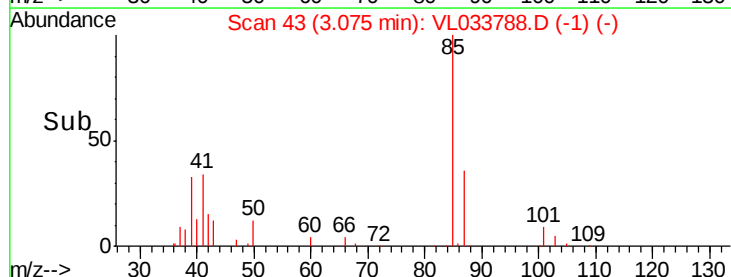
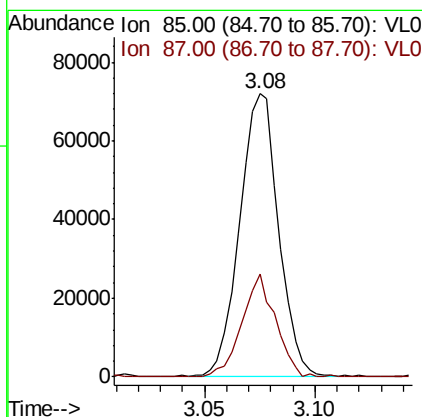
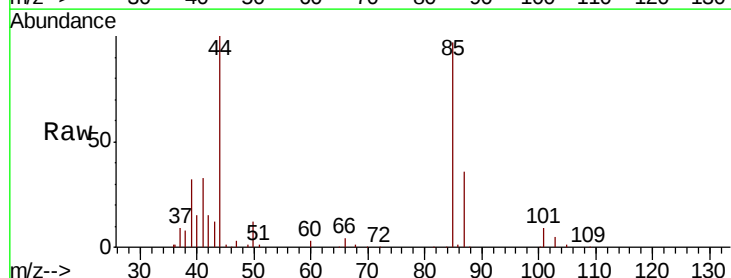
RT: 3.08 min Scan# 43

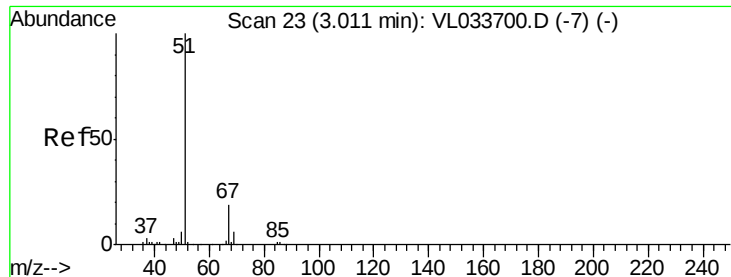
Delta R.T. 0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Tgt Ion:	85	Resp:	88107
Ion	Ratio	Lower	Upper
85	100		
87	36.5	26.3	39.5





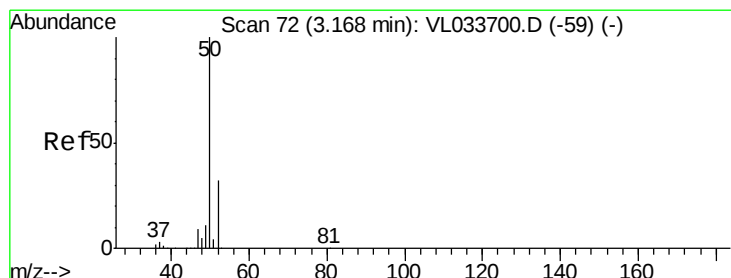
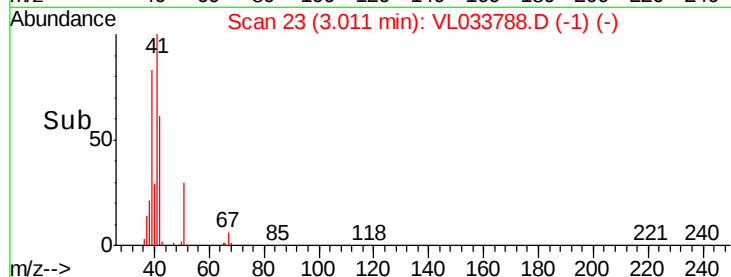
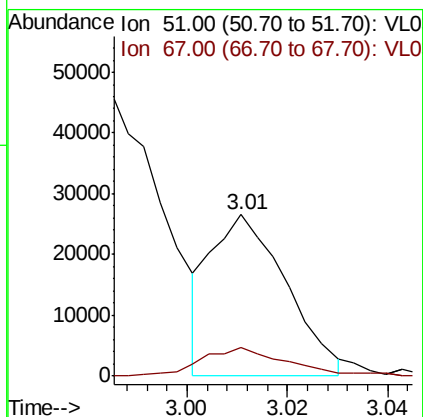
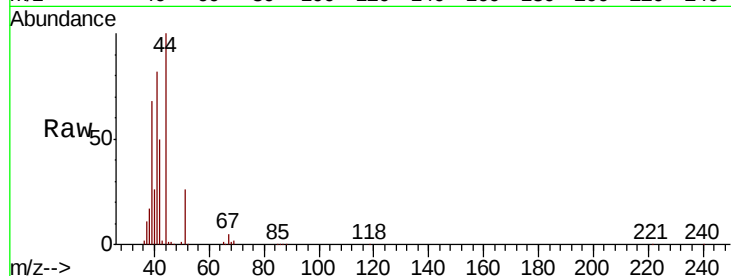
#3
Chlorodifluoromethane
Concen: 0.272 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion: 51 Resp: 27705
Ion Ratio Lower Upper
51 100
67 20.5 15.6 23.4

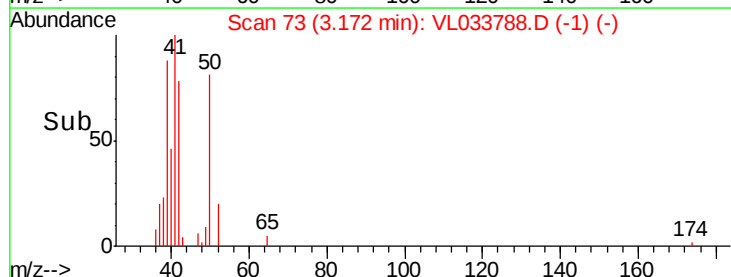
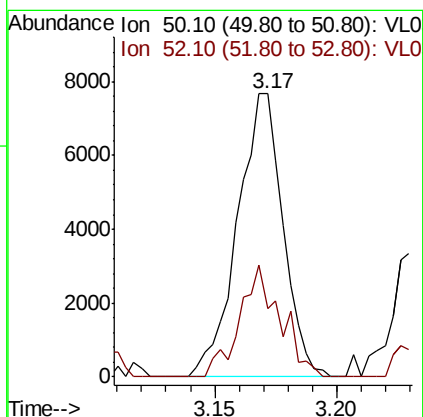
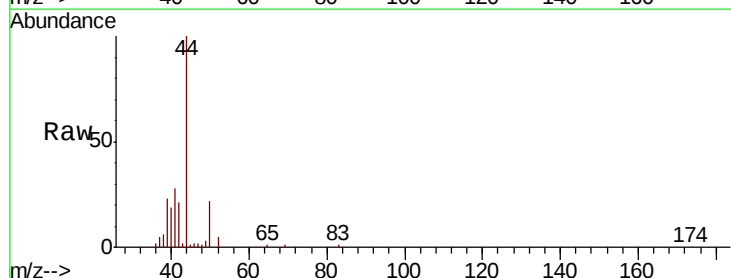
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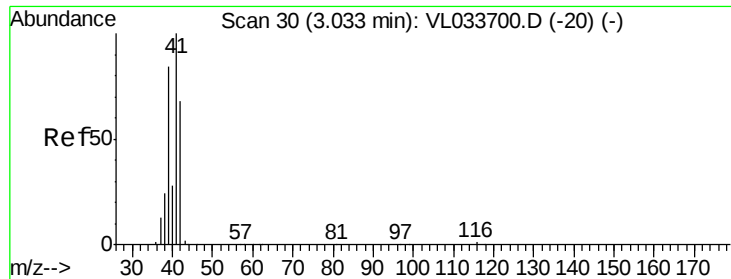
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#4
Chloromethane
Concen: 0.170 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion: 50 Resp: 9891
Ion Ratio Lower Upper
50 100
52 24.2 25.7 38.5#





#9

Propene

Concen: 122.592 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-55

Tot Ion: 41 Resp: 5303910

Ion Ratio Lower Upper

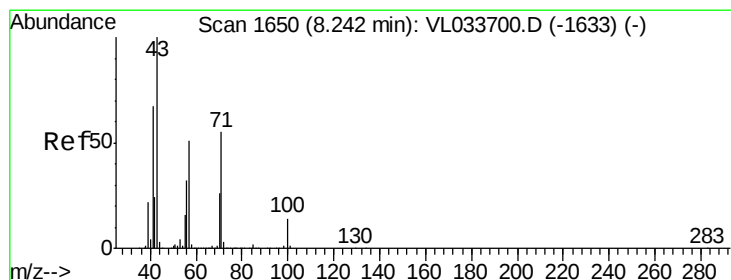
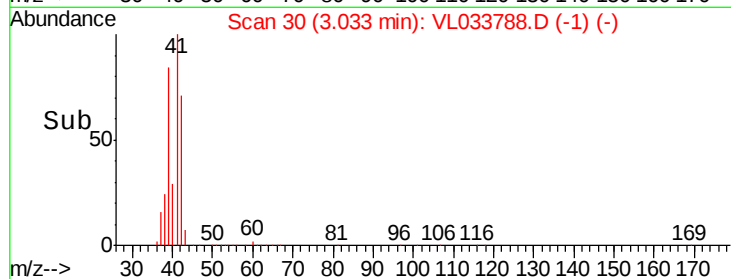
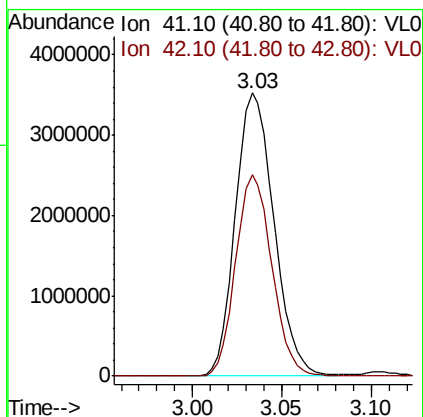
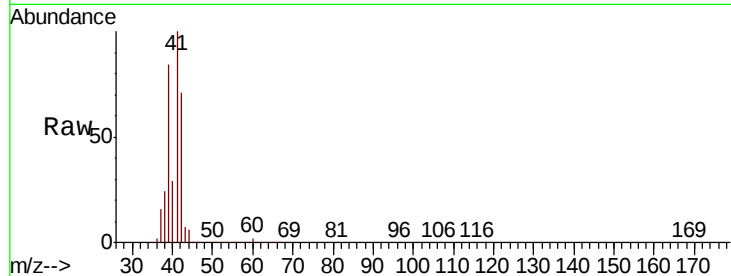
41 100

42 67.1 56.1 84.1

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#10

Heptane

Concen: 2.475 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033788.D

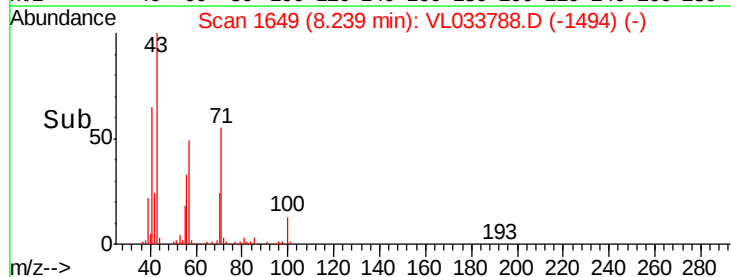
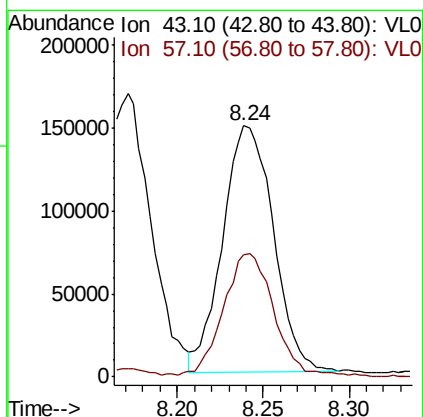
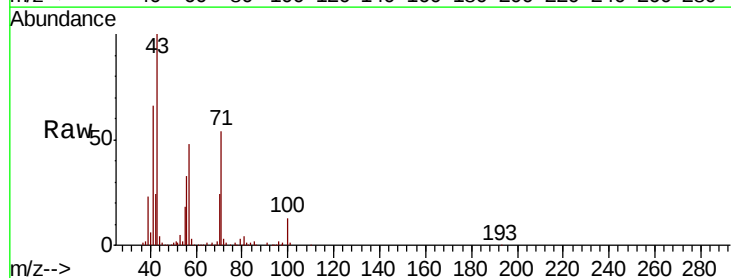
Acq: 24 May 2019 00:43

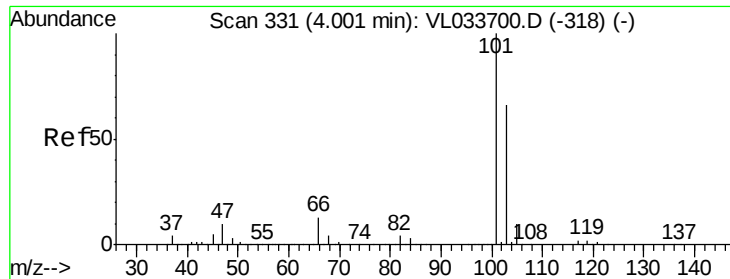
Tgt Ion: 43 Resp: 303211

Ion Ratio Lower Upper

43 100

57 50.1 41.4 62.0





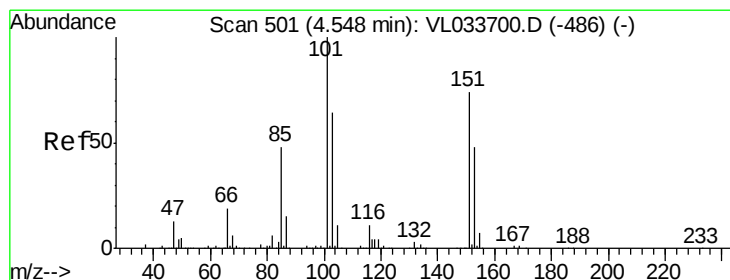
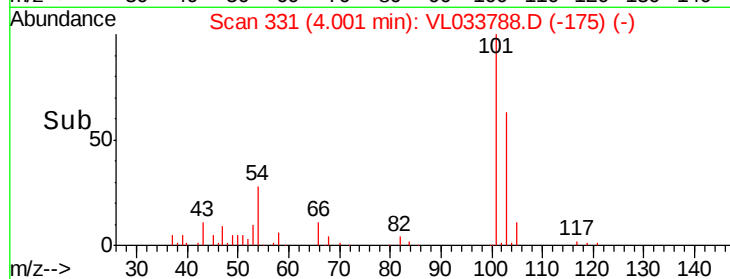
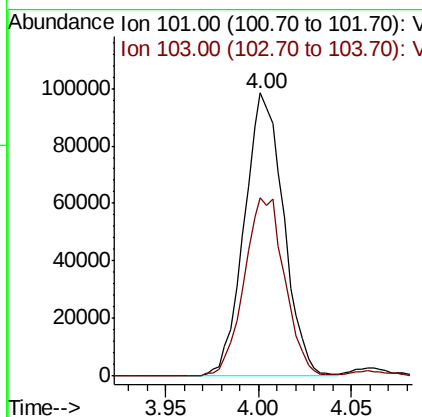
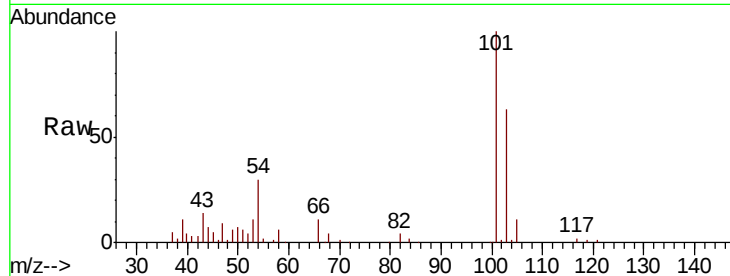
#11
 Trichlorofluoromethane
 Concen: 0.808 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033788.D
 Acq: 24 May 2019 00:43

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3005-55

Tot Ion:101 Resp: 144402
 Ion Ratio Lower Upper
 101 100
 103 63.1 52.6 78.8

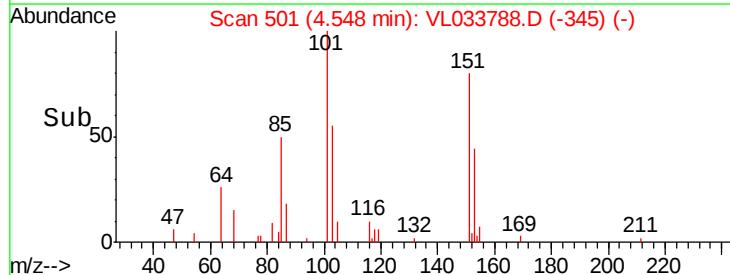
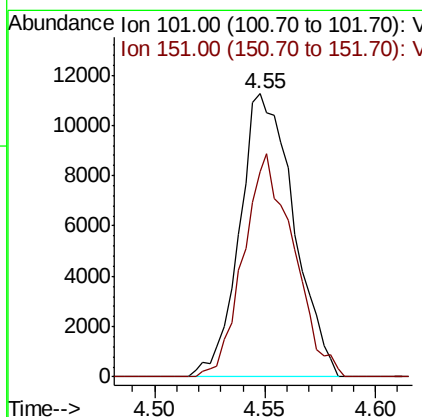
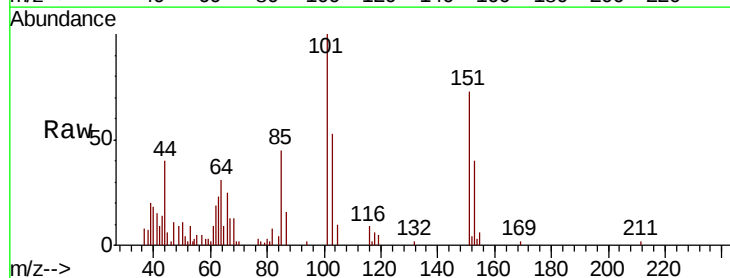
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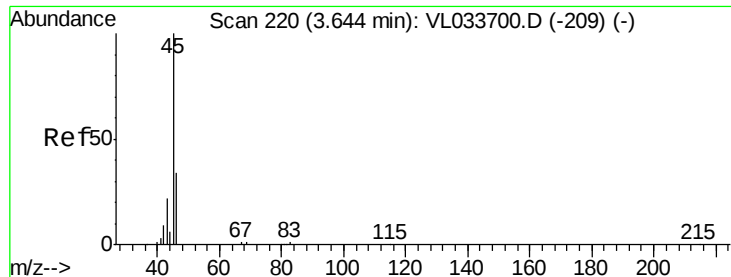
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.154 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VL033788.D
 Acq: 24 May 2019 00:43

Tgt Ion:101 Resp: 19230
 Ion Ratio Lower Upper
 101 100
 151 72.8 58.2 87.4





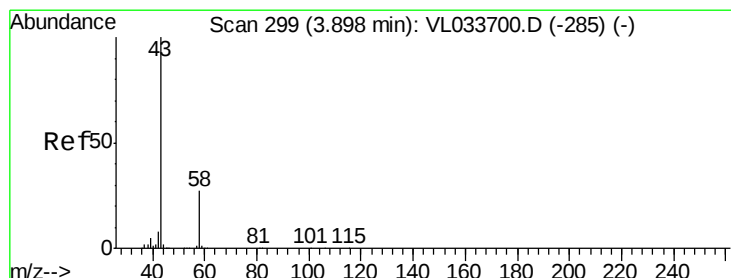
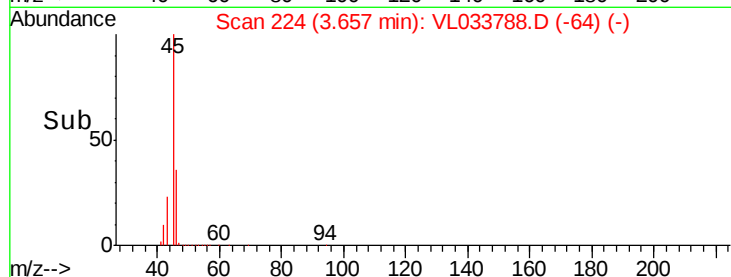
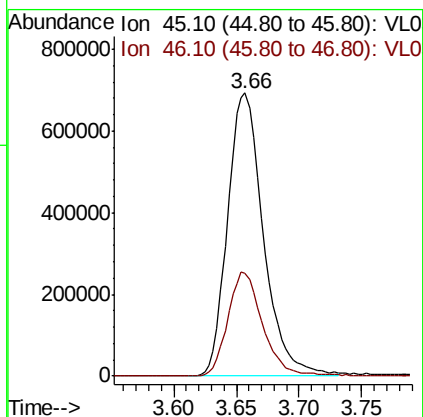
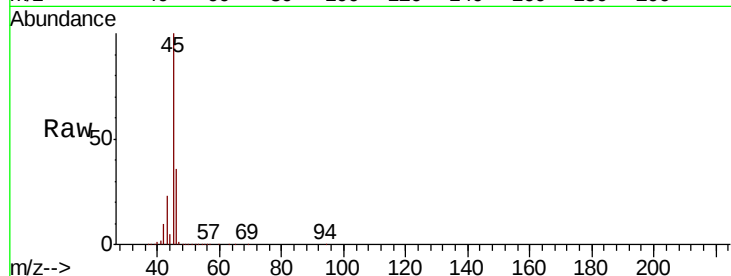
#13
Ethanol
Concen: 98.331 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion: 45 Resp: 1375045
Ion Ratio Lower Upper
45 100
46 35.8 14.8 59.0

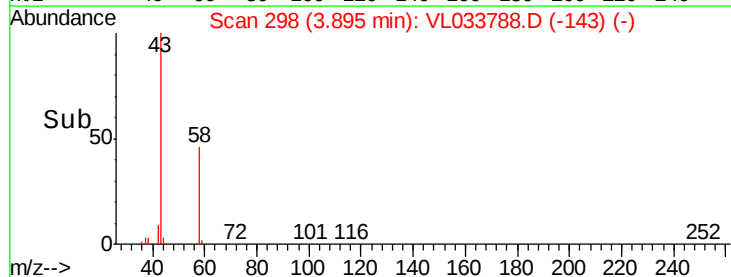
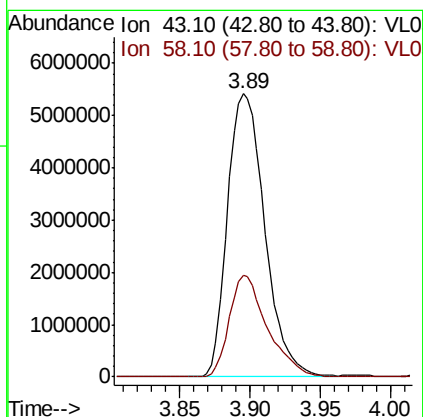
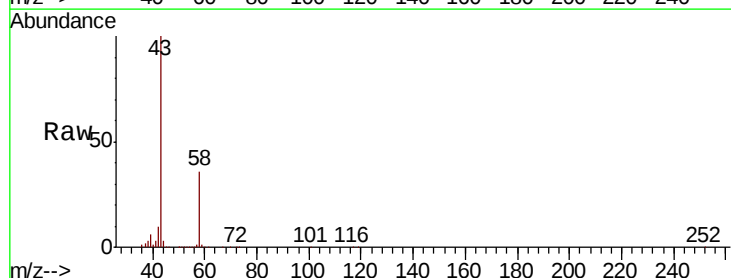
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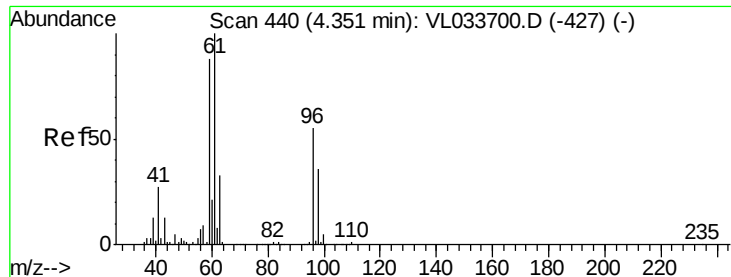
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#15
Acetone
Concen: 81.459 ppbv
RT: 3.89 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion: 43 Resp:10036349
Ion Ratio Lower Upper
43 100
58 36.6 21.3 31.9#





#17

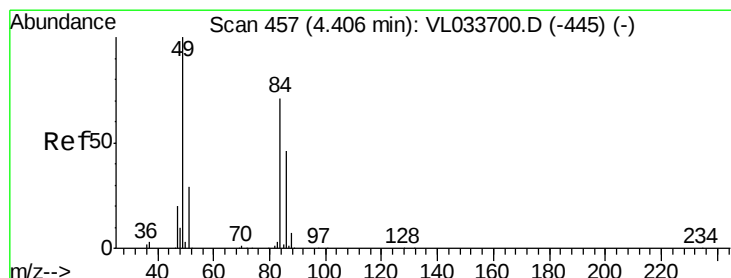
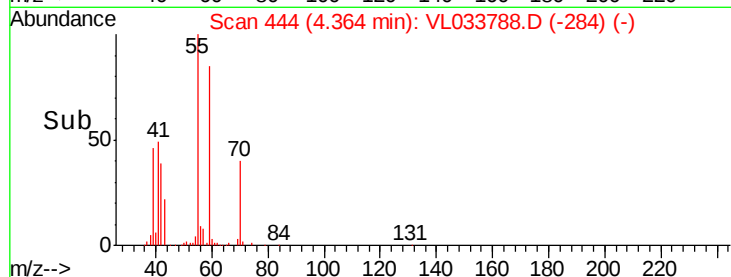
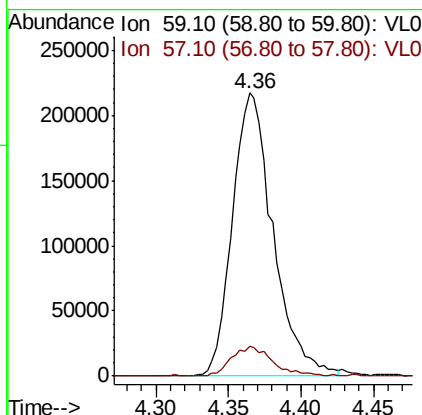
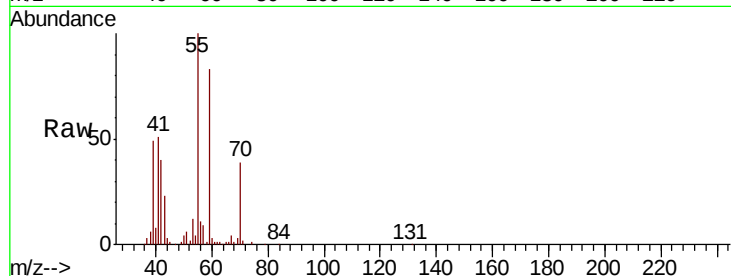
tert-Butyl alcohol
Concen: 4.219 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.01 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion: 59 Resp: 420296
Ion Ratio Lower Upper
59 100
57 11.3 8.4 12.6

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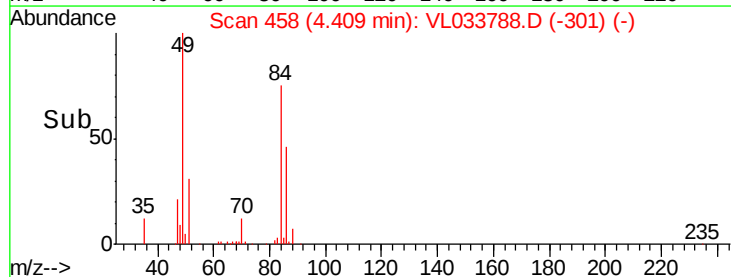
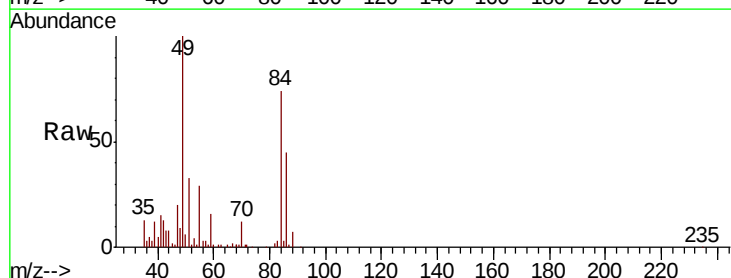
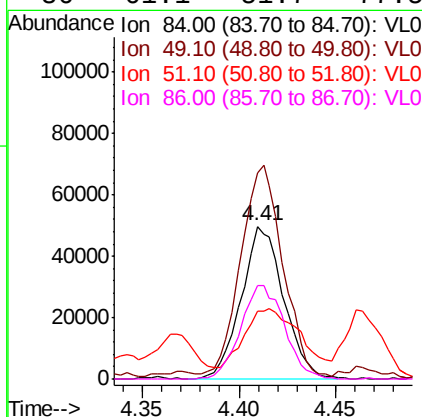
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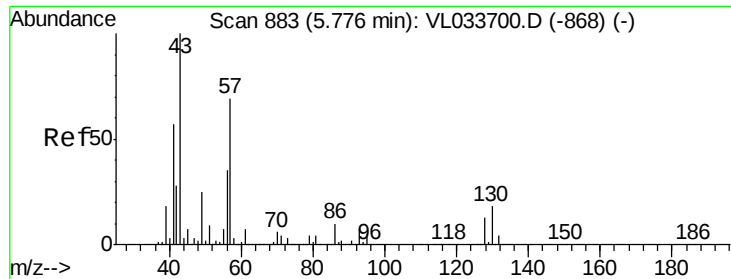


#20

Methylene Chloride
Concen: 1.598 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion: 84 Resp: 75815
Ion Ratio Lower Upper
84 100
49 130.9 112.8 169.2
51 24.0 33.4 50.0#
86 61.1 51.7 77.5





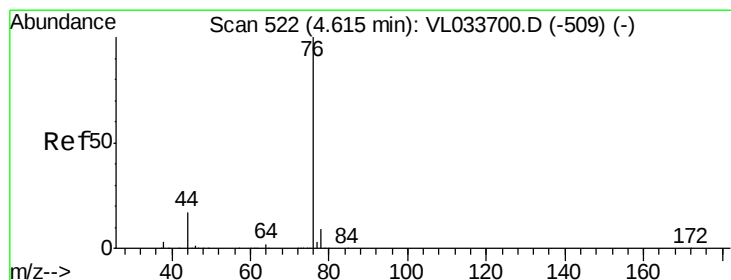
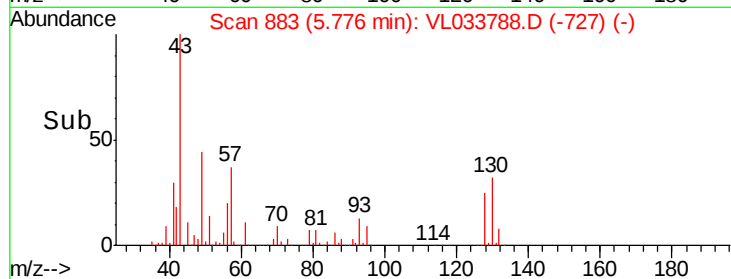
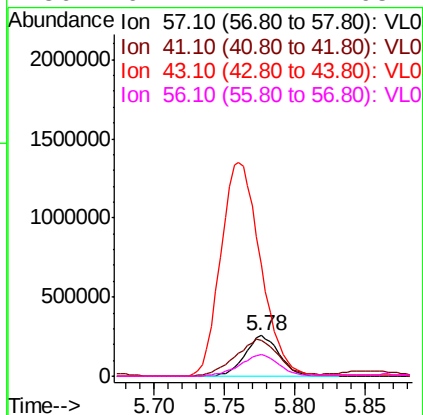
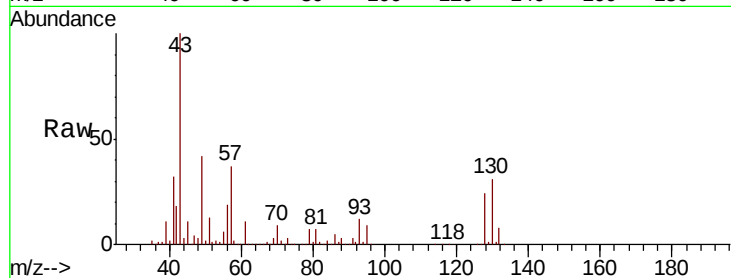
#26
Hexane
Concen: 4.682 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion	Ratio	Lower	Upper
57	100		
41	114.6	69.8	104.6#
43	609.8	181.8	272.6#
56	62.4	42.1	63.1

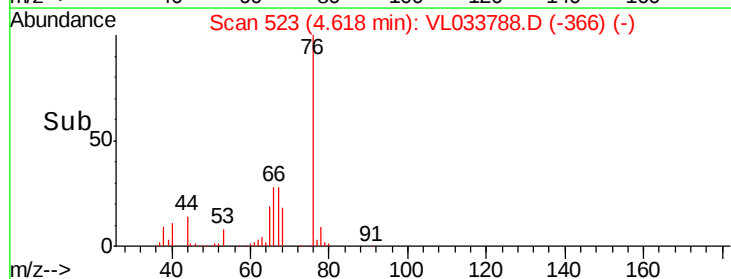
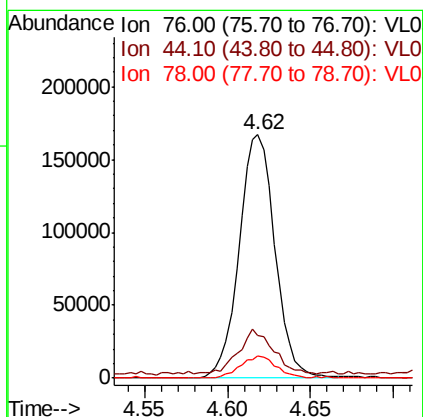
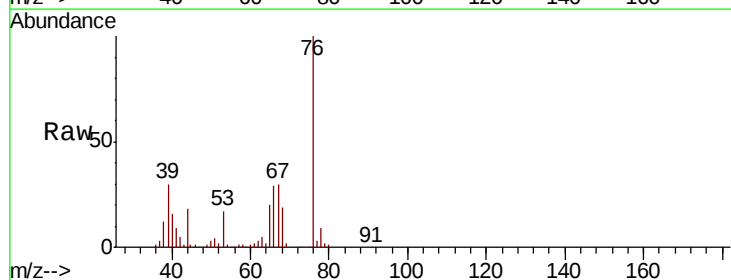
Manual Integrations
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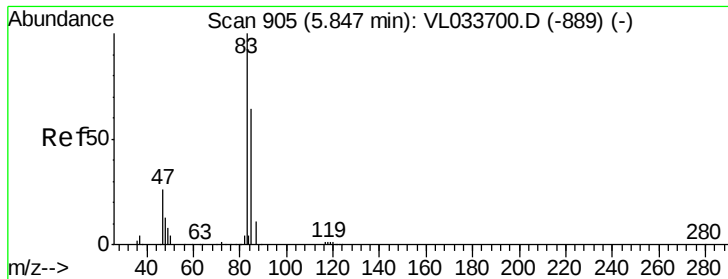
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#27
Carbon Disulfide
Concen: 1.968 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion	Ratio	Lower	Upper
76	100		
44	18.1	13.8	20.8
78	9.4	7.4	11.0





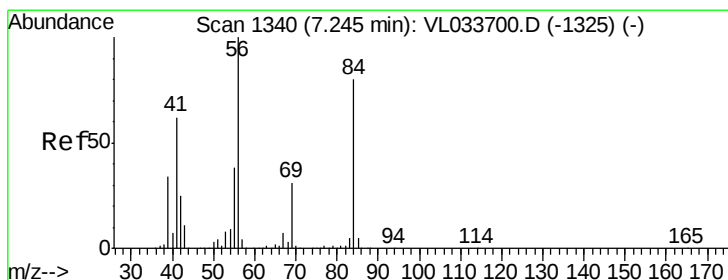
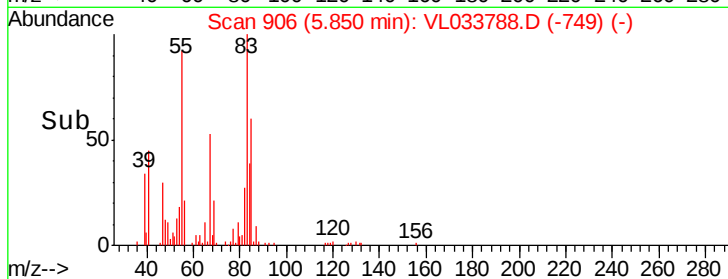
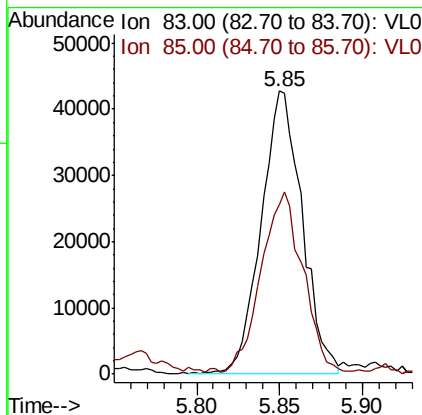
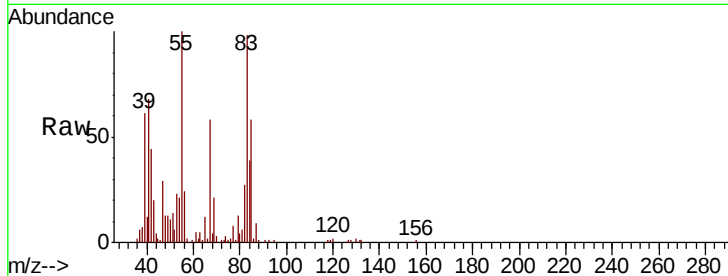
#29
Chloroform
Concen: 0.431 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion: 83 Resp: 73812
Ion Ratio Lower Upper
83 100
85 58.0 51.5 77.3

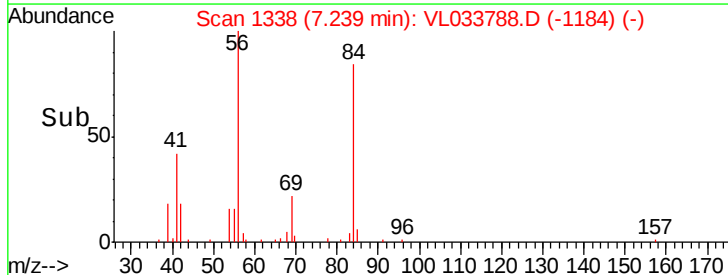
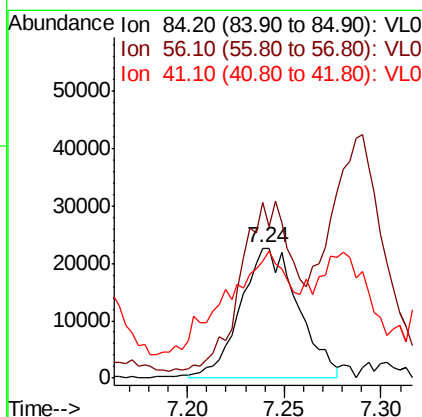
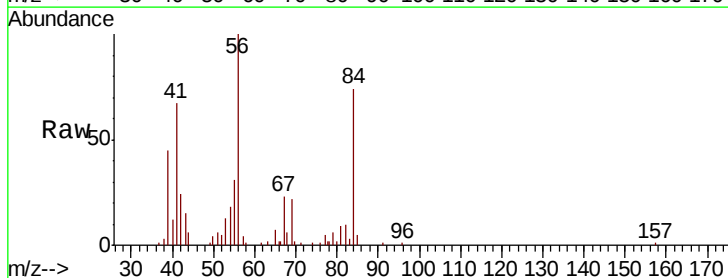
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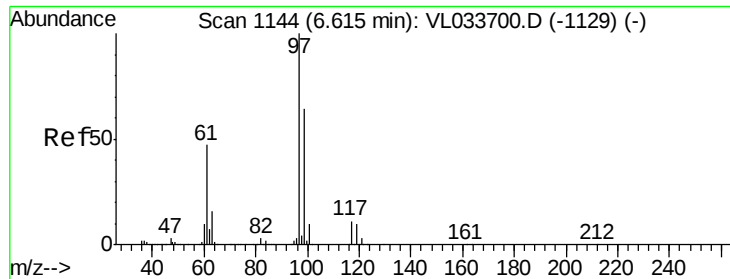
MMDadoda
5/28/2019 2:53:51 AM



#30
Cyclohexane
Concen: 0.602 ppbv m
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion: 84 Resp: 47095
Ion Ratio Lower Upper
84 100
56 127.3 107.7 161.5
41 106.7 66.0 99.0#





#32

1,1,1-Trichloroethane

Concen: 0.075 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

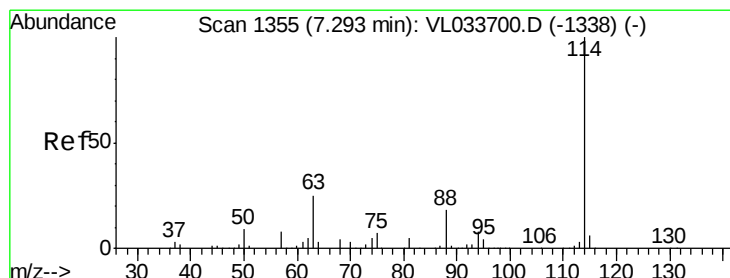
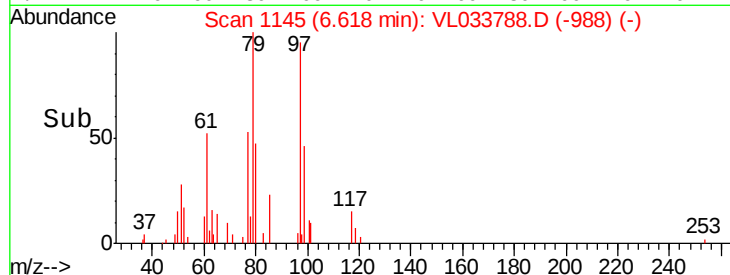
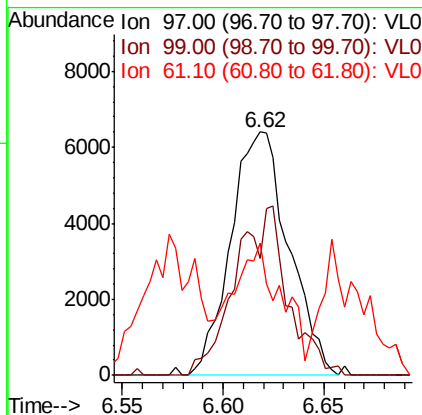
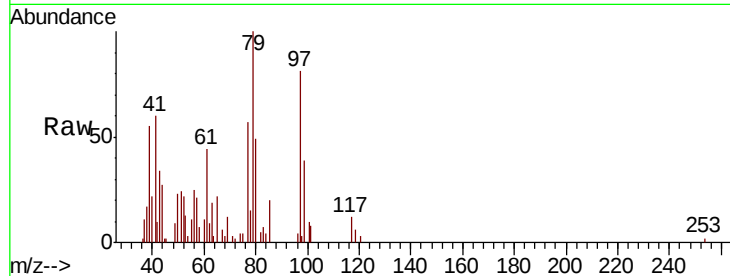
ClientSampleId :

BPS1-SG-3005-55

Tot Ion:	97	Resp:	12860
Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.5	77.3
61	46.4	37.8	56.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

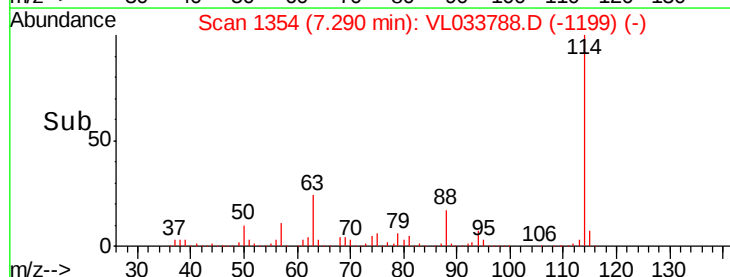
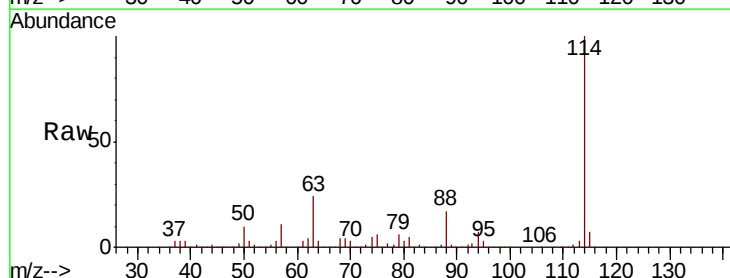
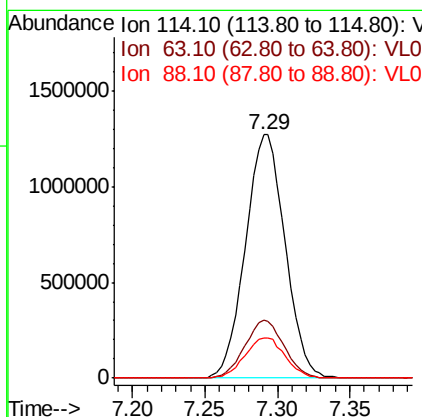
RT: 7.29 min Scan# 1354

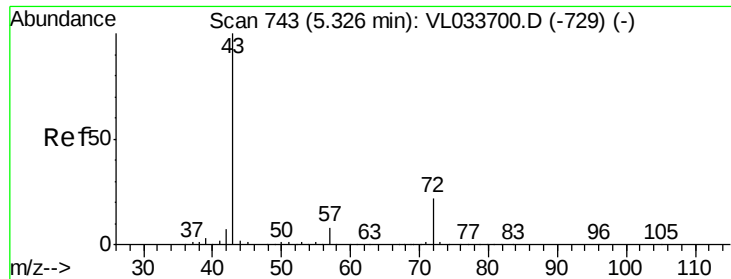
Delta R.T. -0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Tgt Ion:	114	Resp:	2419066
Ion	Ratio	Lower	Upper
114	100		
63	23.4	20.9	31.3
88	16.9	14.3	21.5





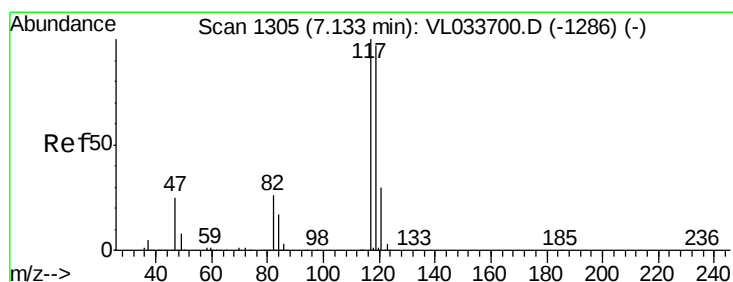
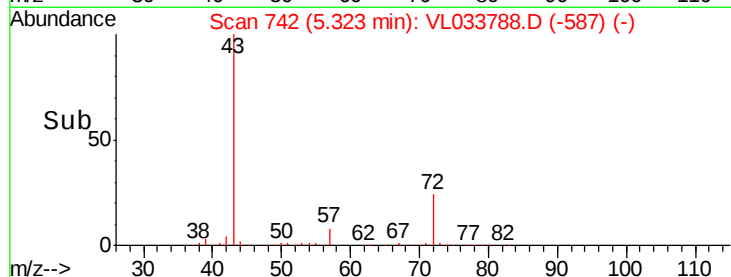
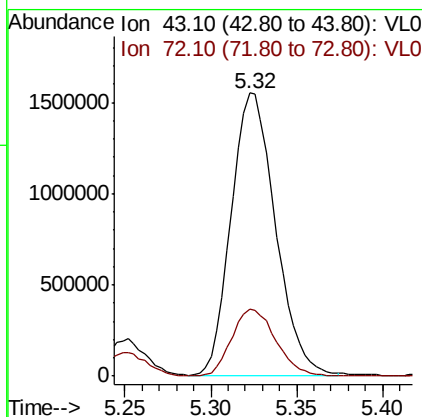
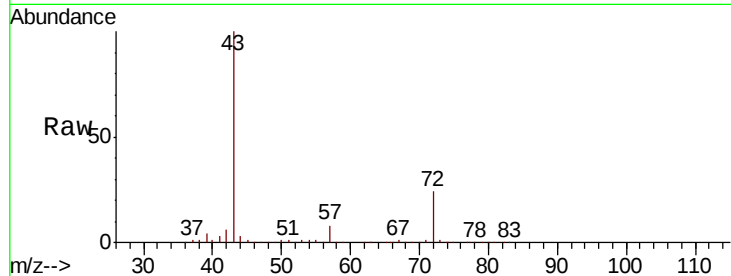
#34
2-Butanone
Concen: 18.401 ppbv
RT: 5.32 min Scan# 742
Delta R.T. -0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion: 43 Resp: 2759148
Ion Ratio Lower Upper
43 100
72 23.8 17.8 26.6

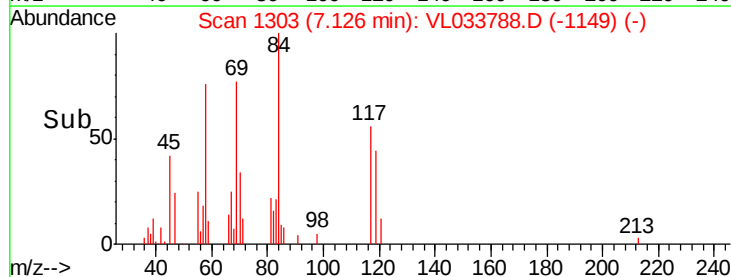
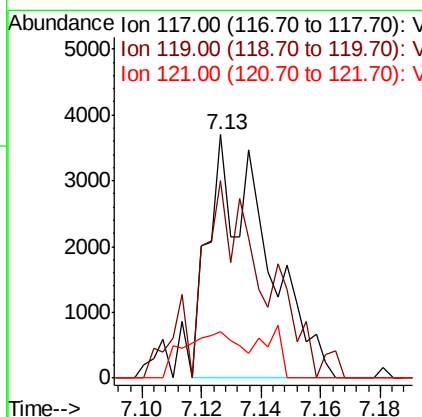
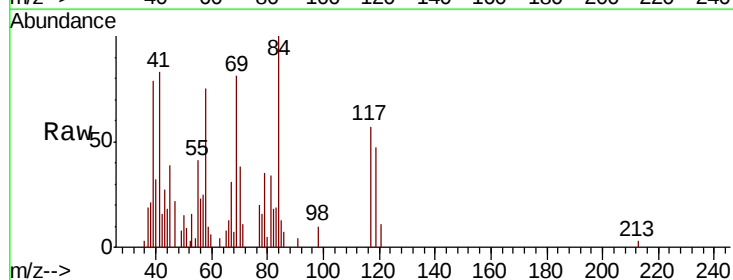
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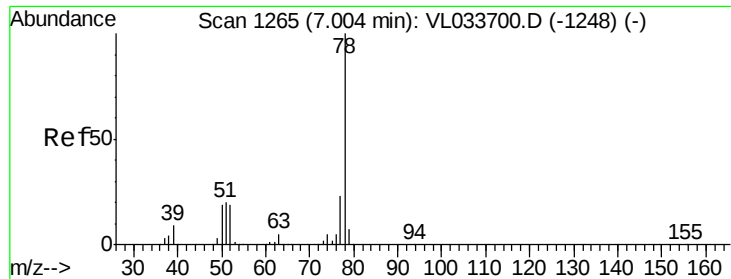
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#35
Carbon Tetrachloride
Concen: 0.025 ppbv m
RT: 7.13 min Scan# 1303
Delta R.T. -0.01 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion: 117 Resp: 4856
Ion Ratio Lower Upper
117 100
119 81.2 77.2 115.8
121 19.3 24.1 36.1#





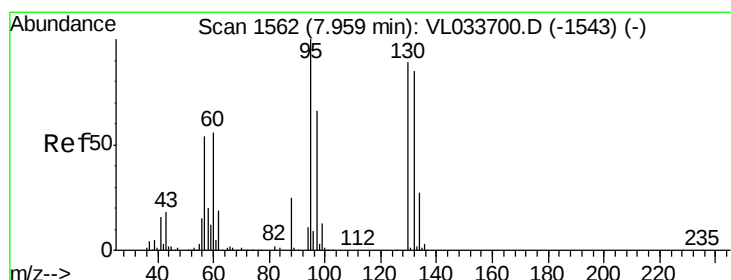
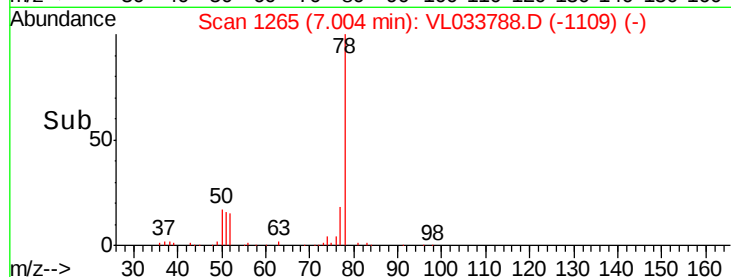
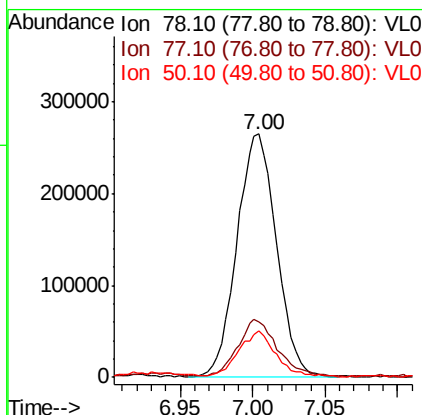
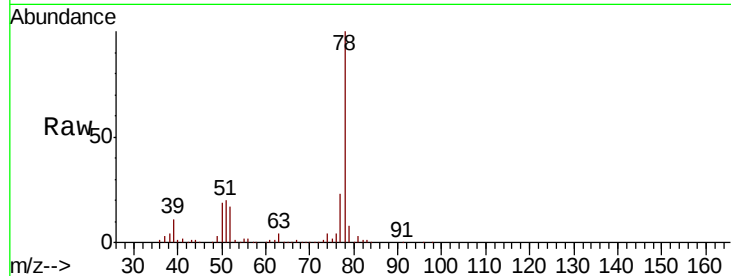
#36
Benzene
Concen: 2.276 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion	78	Resp	500767
Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.4	27.6
50	18.7	15.5	23.3

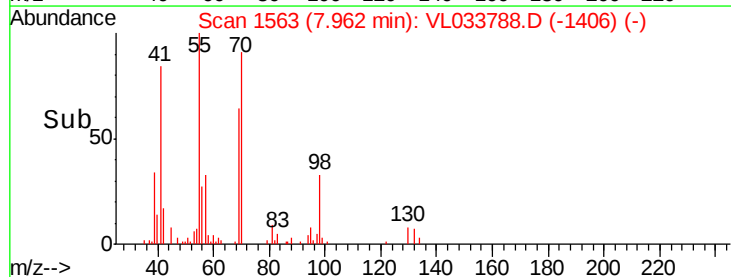
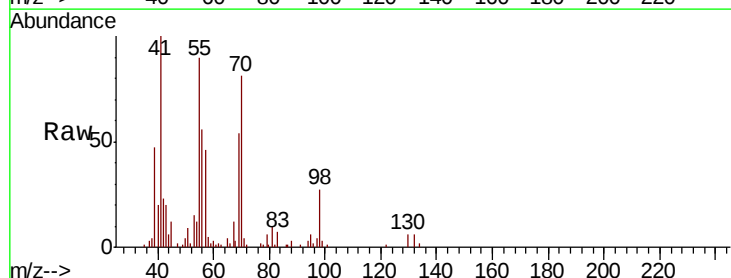
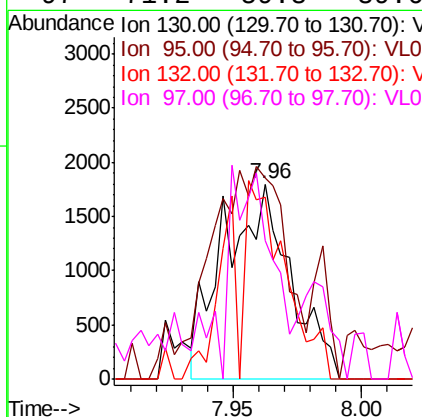
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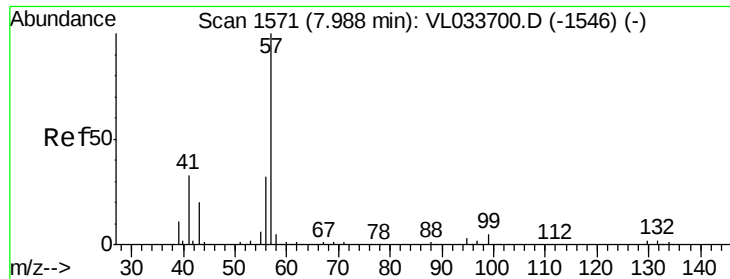
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#38
Trichloroethene
Concen: 0.040 ppbv m
RT: 7.96 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion	130	Resp	3264
Ion	Ratio	Lower	Upper
130	100		
95	103.1	90.2	135.4
132	93.2	76.4	114.6
97	71.2	59.8	89.6





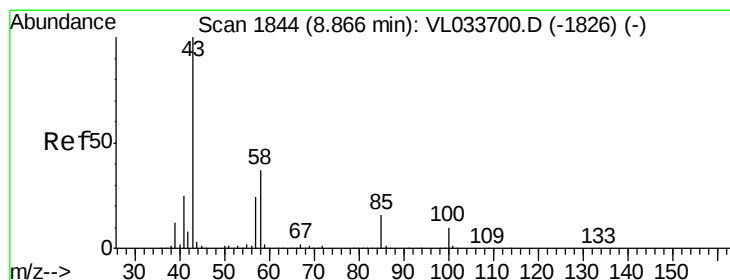
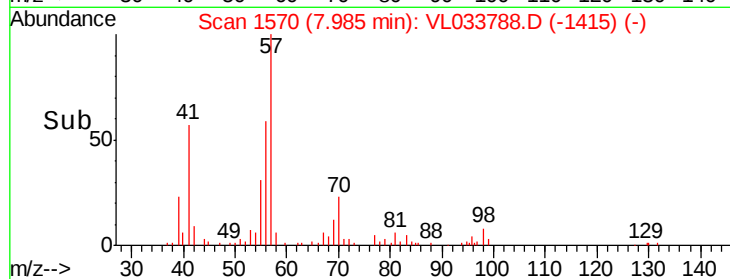
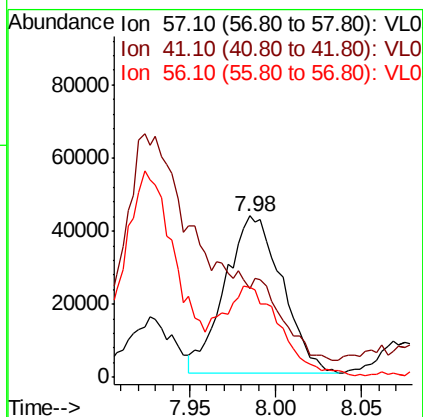
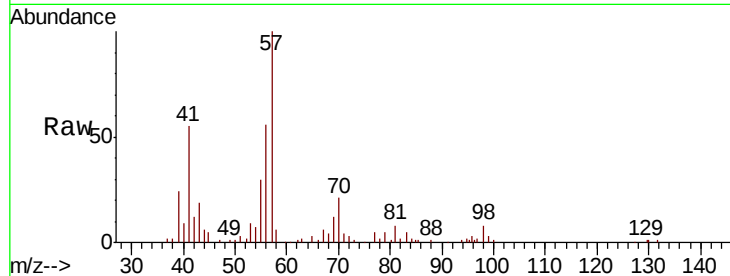
#44
 2,2,4-Trimethylpentane
 Concen: 0.269 ppbv
 RT: 7.98 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VL033788.D
 Acq: 24 May 2019 00:43

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3005-55

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	25.4	38.0#
56	60.4	24.7	37.1#

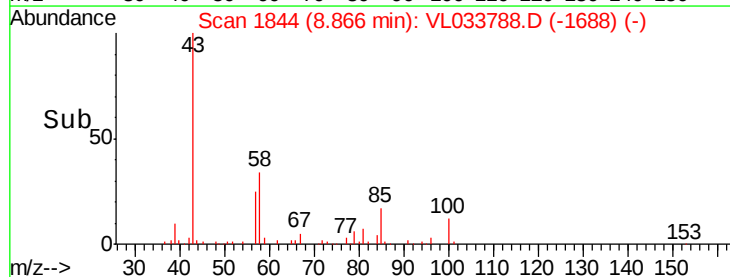
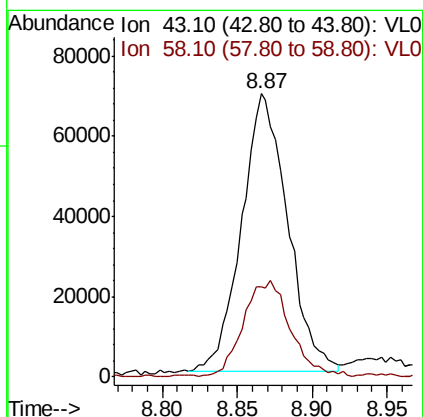
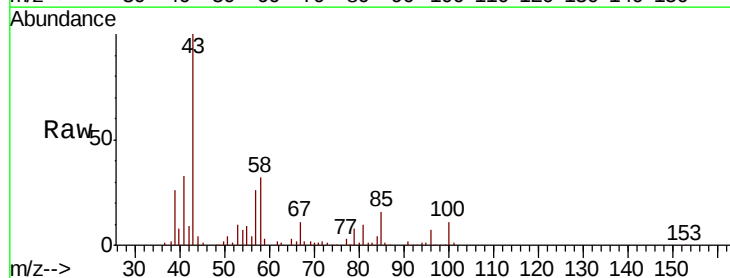
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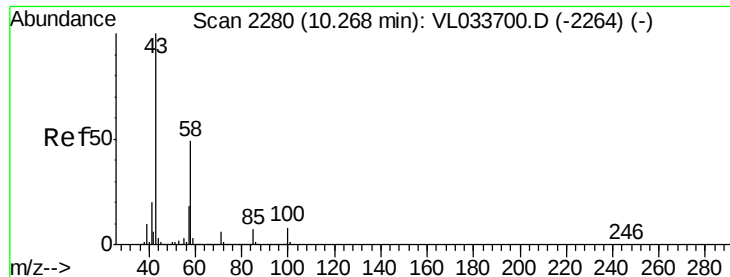
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#50
 4-Methyl-2-Pentanone
 Concen: 0.642 ppbv
 RT: 8.87 min Scan# 1844
 Delta R.T. 0.00 min
 Lab File: VL033788.D
 Acq: 24 May 2019 00:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.0	28.6	43.0





#51

2-Hexanone

Concen: 1.459 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. -0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-55

Tot Ion: 43 Resp: 262635

Ion Ratio Lower Upper

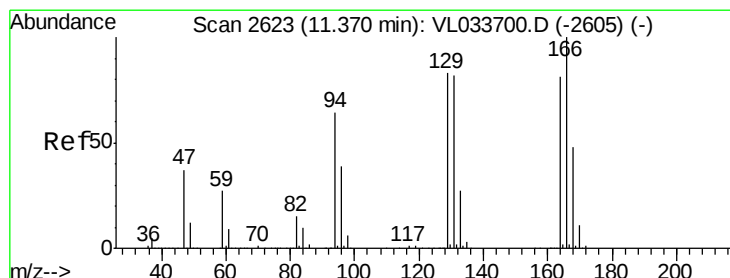
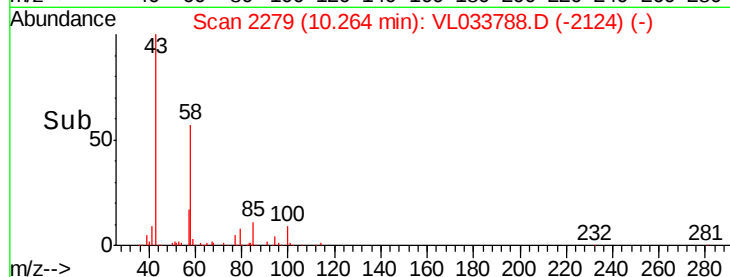
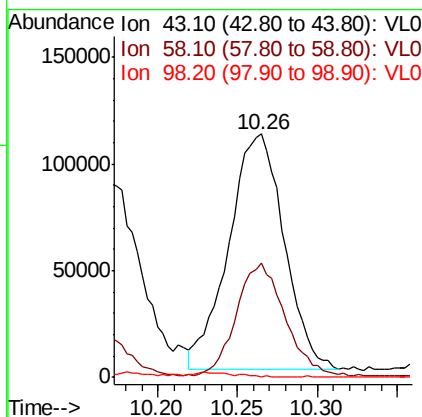
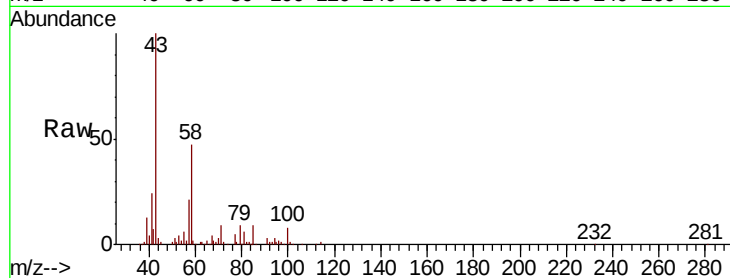
43 100

58 43.5 38.7 58.1

98 1.8 0.2 0.4#

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#52

Tetrachloroethene

Concen: 0.188 ppbv m

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Tgt Ion: 164 Resp: 14539

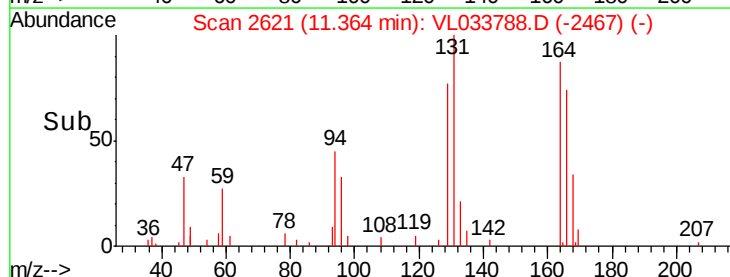
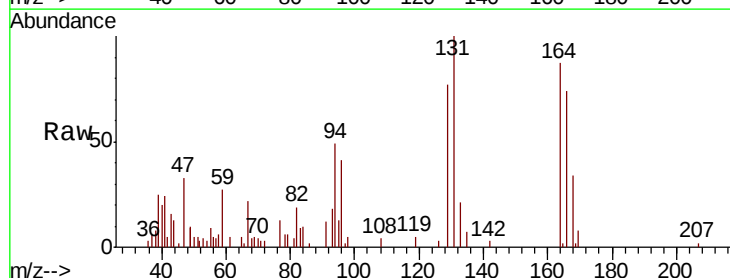
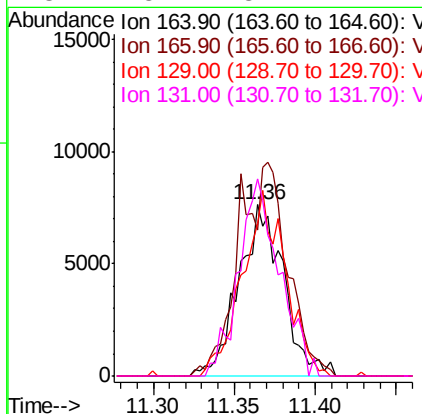
Ion Ratio Lower Upper

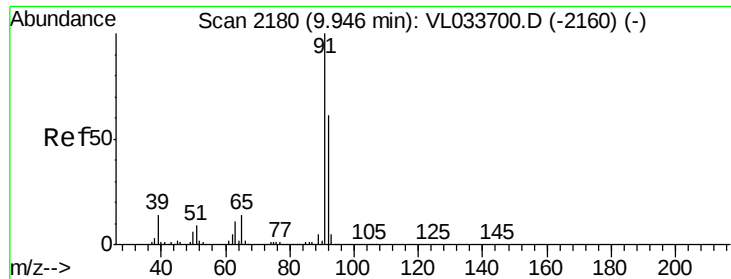
164 100

166 85.3 98.9 148.3#

129 89.2 81.8 122.6

131 115.1 81.1 121.7





#53

Toluene

Concen: 16.481 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-55

Tot Ion: 91 Resp: 3911640

Ion Ratio Lower Upper

91 100

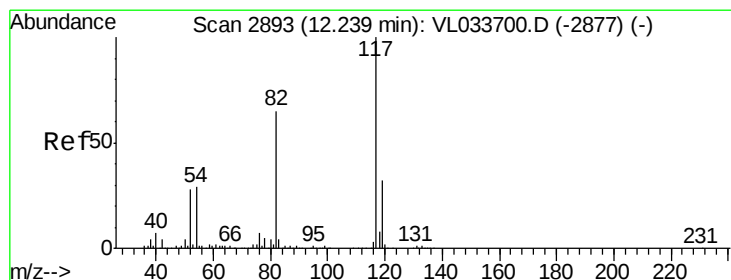
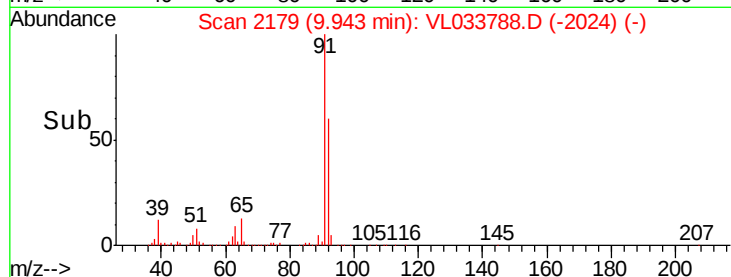
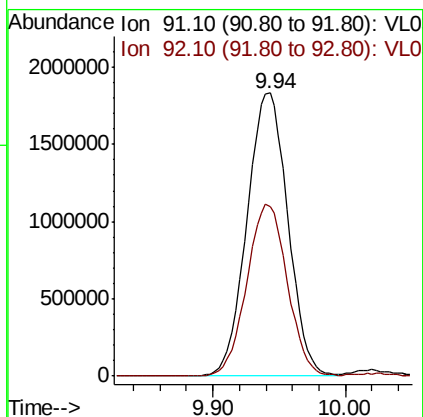
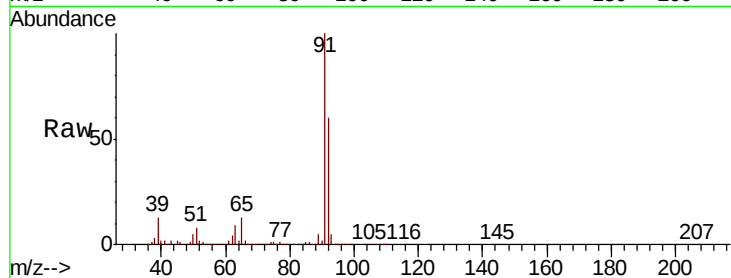
92 60.2 47.6 71.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

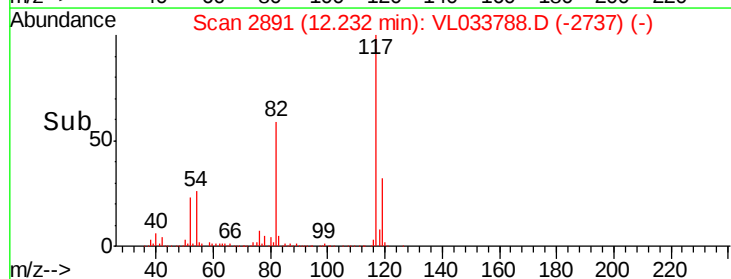
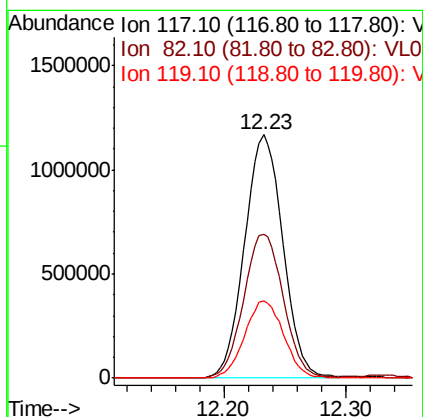
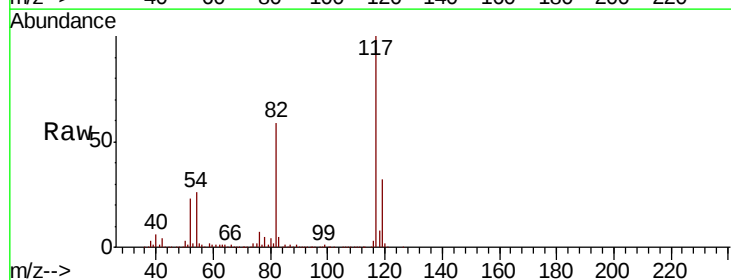
Tgt Ion: 117 Resp: 2535225

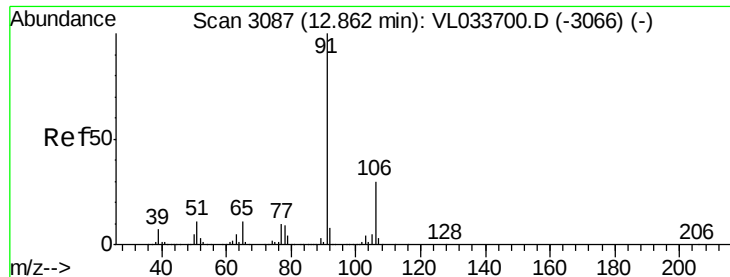
Ion Ratio Lower Upper

117 100

82 61.1 49.4 74.0

119 32.5 24.9 37.3





#58

Ethyl Benzene

Concen: 1.160 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-55

Tot Ion: 91 Resp: 389320

Ion Ratio Lower Upper

91 100

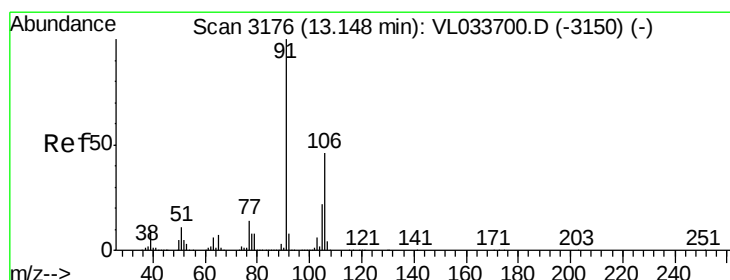
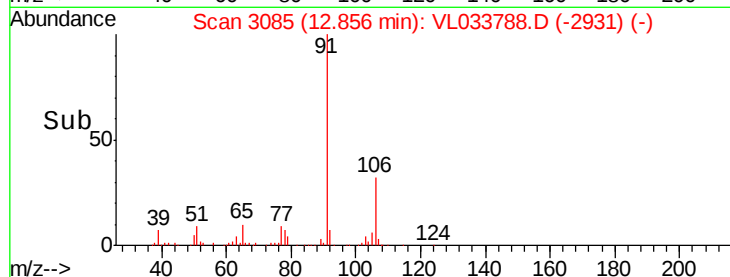
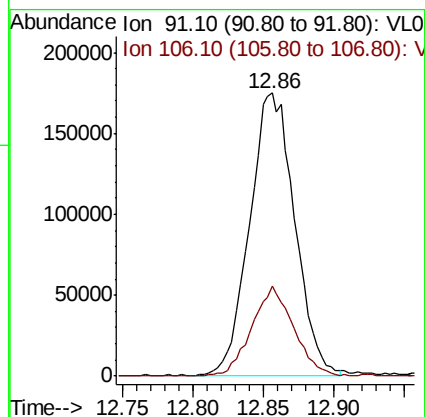
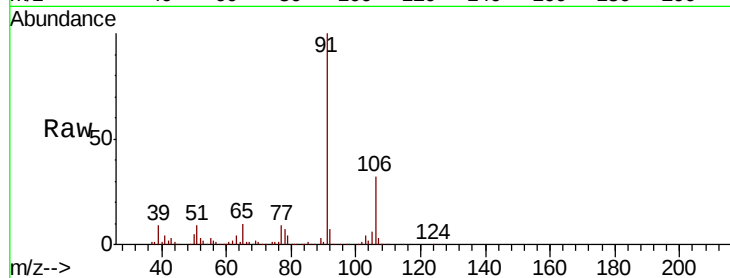
106 31.9 23.9 35.9

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#59

m/p-Xylene

Concen: 3.595 ppbv

RT: 13.11 min Scan# 3165

Delta R.T. -0.04 min

Lab File: VL033788.D

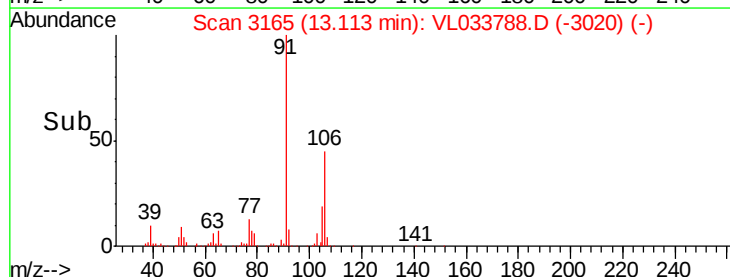
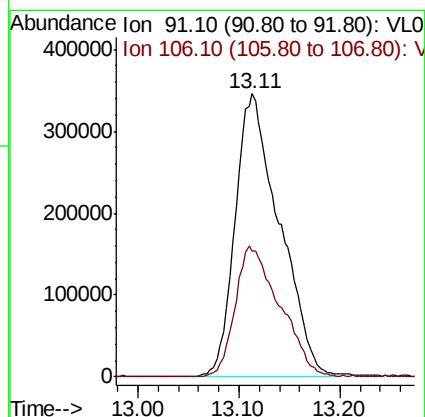
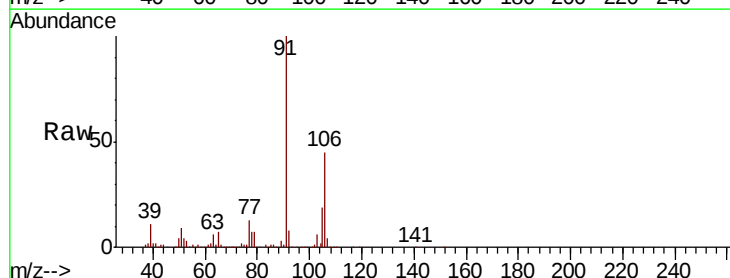
Acq: 24 May 2019 00:43

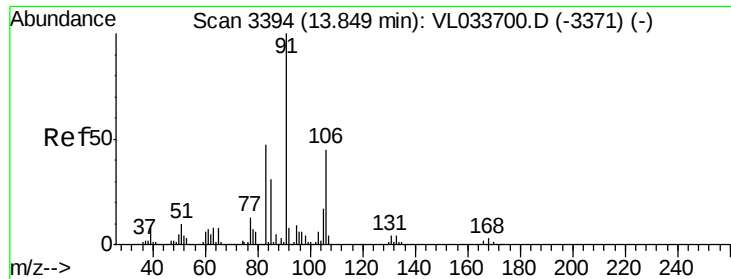
Tgt Ion: 91 Resp: 1054976

Ion Ratio Lower Upper

91 100

106 46.8 35.8 53.6





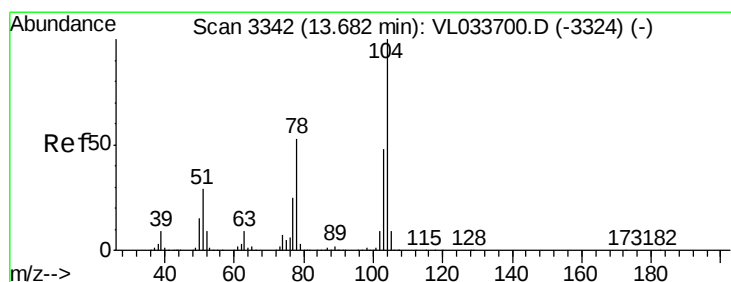
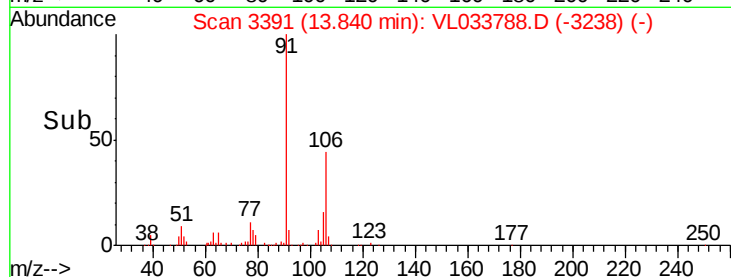
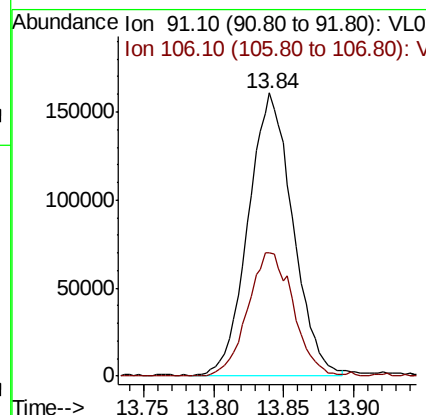
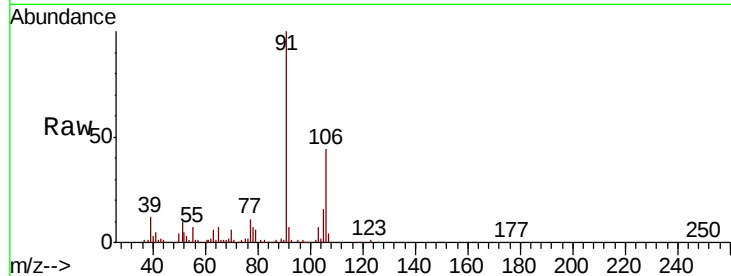
#60
o-Xylene
Concen: 1.191 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3005-55

Tot Ion: 91 Resp: 352407
Ion Ratio Lower Upper
91 100
106 45.7 21.6 64.8

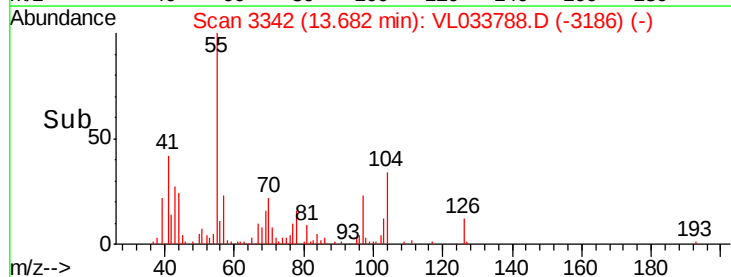
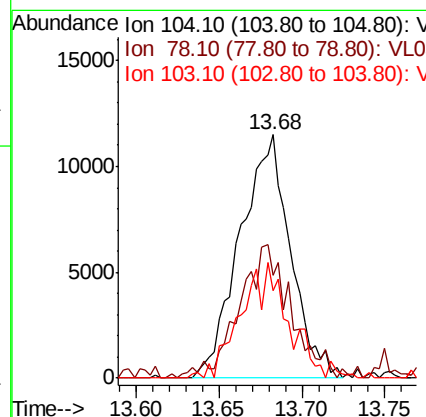
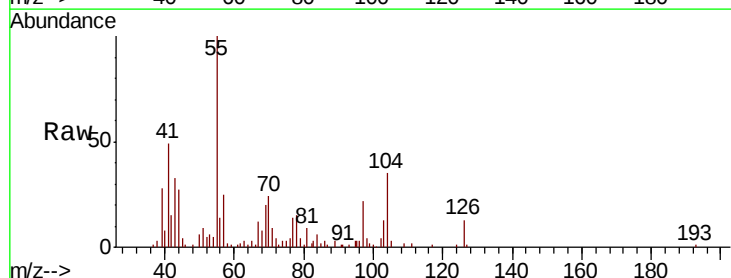
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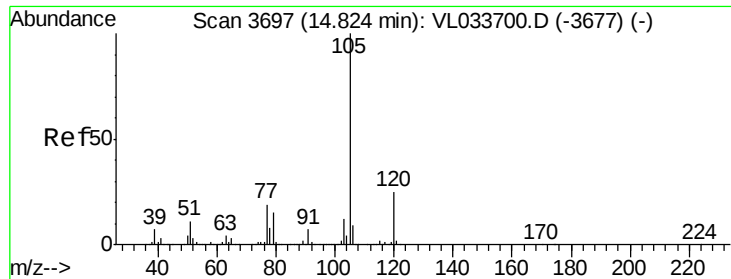
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#61
Styrene
Concen: 0.122 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033788.D
Acq: 24 May 2019 00:43

Tgt Ion: 104 Resp: 24362
Ion Ratio Lower Upper
104 100
78 60.8 42.6 64.0
103 45.5 37.8 56.6





#62

Isopropylbenzene

Concen: 0.099 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3005-55

Tot Ion: 105 Resp: 39267

Ion Ratio Lower Upper

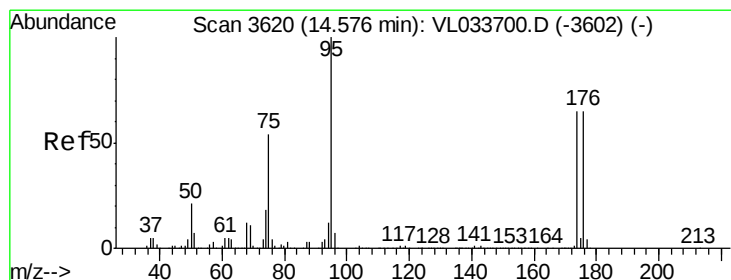
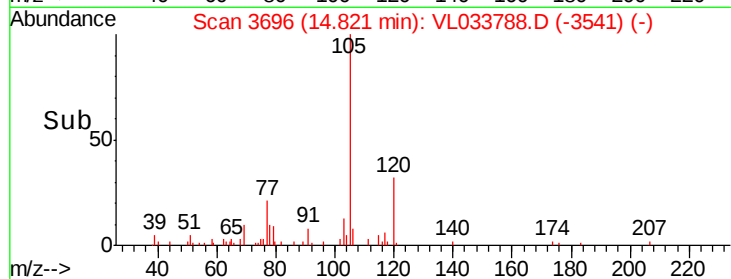
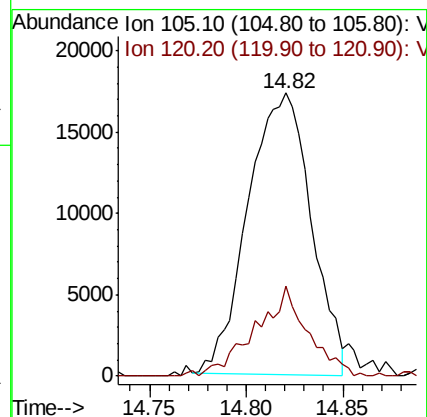
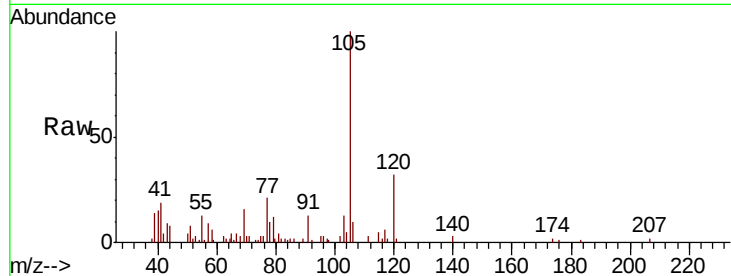
105 100

120 26.5 20.1 30.1

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.639 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

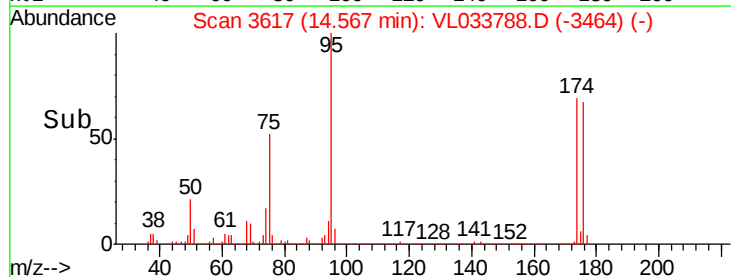
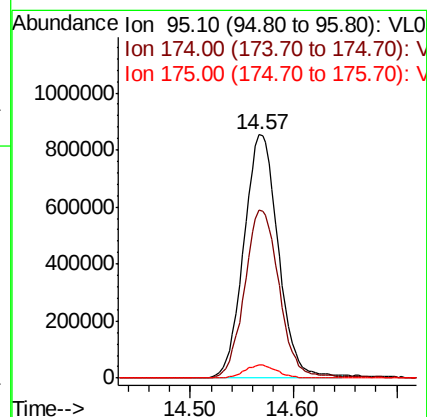
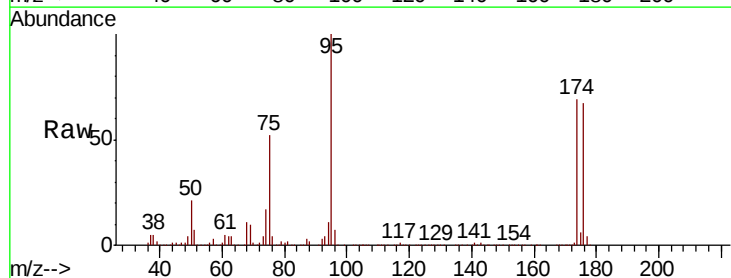
Tgt Ion: 95 Resp: 1981022

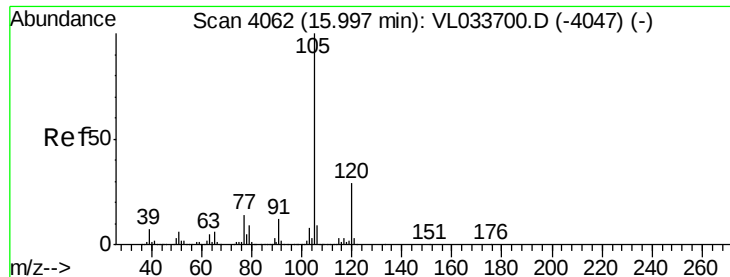
Ion Ratio Lower Upper

95 100

174 70.2 53.9 80.9

175 5.2 3.8 5.8





#72

4-Ethyltoluene

Concen: 0.282 ppbv

RT: 15.99 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL033788.D

Acq: 24 May 2019 00:43

Instrument :

MSVOA_L

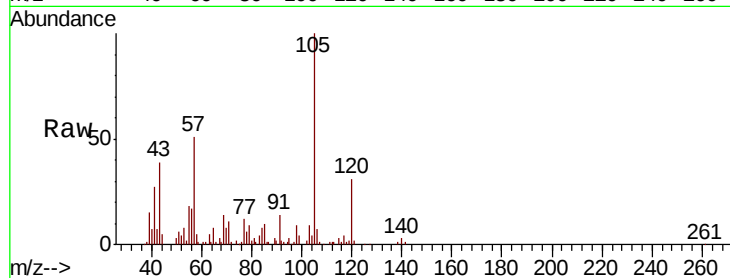
ClientSampled :

BPS1-SG-3005-55

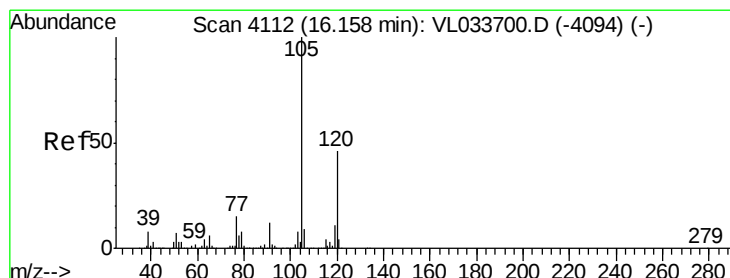
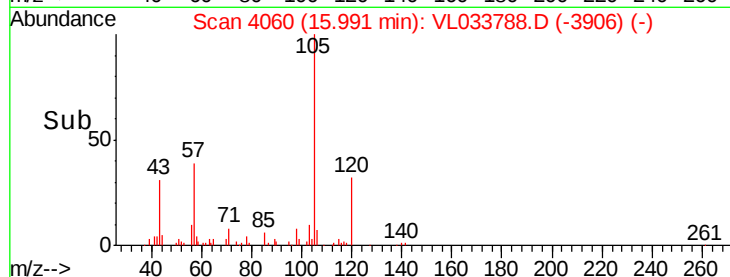
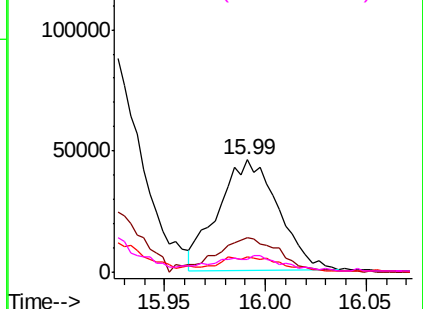
Tot Ion:	105	Resp:	95435
Ion Ratio	Lower	Upper	
105	100		
120	33.7	23.1	34.7
91	14.1	10.4	15.6
77	14.2	11.0	16.6

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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.170 ppbv

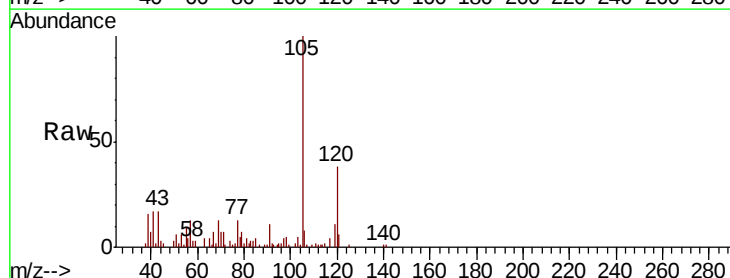
RT: 16.15 min Scan# 4108

Delta R.T. -0.01 min

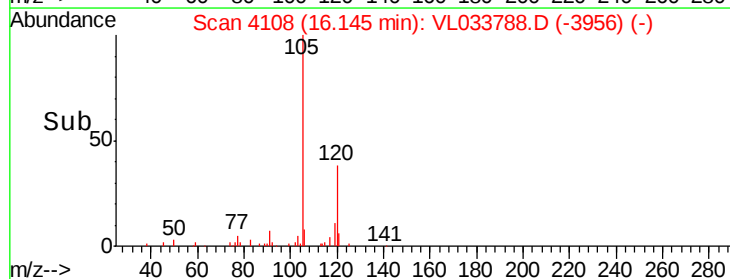
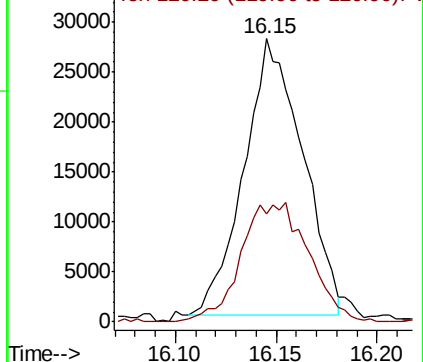
Lab File: VL033788.D

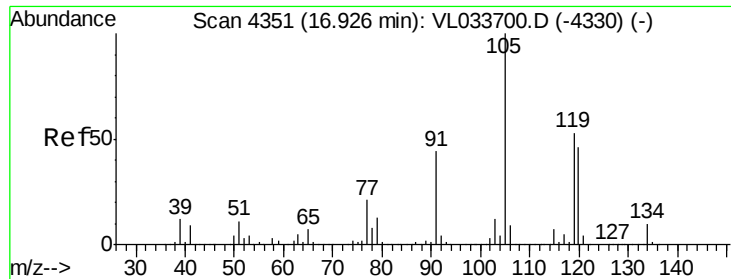
Acq: 24 May 2019 00:43

Tgt Ion:	105	Resp:	56070
Ion Ratio	Lower	Upper	
105	100		
120	44.4	37.0	55.4



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.512 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL033788.D
 Acq: 24 May 2019 00:43

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3005-55

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	37.4	36.8	55.2
91	9.3	35.4	53.0#
77	12.3	16.8	25.2#

Manual Integrations
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