

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032498.D
 Acq On : 11 Sep 2018 4:00
 Operator : SY/AP
 Sample : J4820-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:49 PM

Quant Time: Sep 11 16:35:11 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1374167	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.37	114	3275868	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.30	117	3144840	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2381533	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	34510	0.20	ppbv	94
4) Chloromethane	3.20	50	170911	2.27	ppbv	96
7) Chloroethane	3.63	64	16823	0.65	ppbv #	77
9) Propene	3.06	41	10317501	205.62	ppbv	95
10) Heptane	8.30	43	378812	2.10	ppbv	98
11) Trichlorofluoromethane	4.04	101	113730	0.72	ppbv	93
13) Ethanol	3.74	45	2094608	133.92	ppbv	98
15) Acetone	3.96	43	17594335m	142.18	ppbv	
20) Methylene Chloride	4.48	84	165800	3.51	ppbv	96
26) Hexane	5.82	57	722600	5.52	ppbv #	9
27) Carbon Disulfide	4.66	76	185864	1.54	ppbv #	44
29) Chloroform	5.94	83	1795851	9.00	ppbv	97
34) 2-Butanone	5.39	43	55357817m	254.41	ppbv	
36) Benzene	7.07	78	732545	2.63	ppbv	98
38) Trichloroethene	8.03	130	75003	0.71	ppbv	95
48) Dibromochloromethane	10.53	129	48393m	0.28	ppbv	
51) 2-Hexanone	10.34	43	27772823	131.54	ppbv #	83
52) Tetrachloroethene	11.43	164	102290m	1.18	ppbv	
53) Toluene	10.01	91	977884	3.36	ppbv	99
58) Ethyl Benzene	12.92	91	472612	1.26	ppbv	96
59) m/p-Xylene	13.18	91	1750674	5.22	ppbv	97
60) o-Xylene	13.90	91	849280	2.58	ppbv	100
61) Styrene	13.74	104	970781	4.55	ppbv	98
62) Isopropylbenzene	14.88	105	963184	2.08	ppbv	98
64) n-propylbenzene	15.77	120	51019m	0.42	ppbv	
69) p-Isopropyltoluene	17.88	119	264870	0.57	ppbv #	87
72) 4-Ethyltoluene	16.06	105	308101	0.86	ppbv	97
73) 1,3,5-Trimethylbenzene	16.21	105	258063	0.72	ppbv	92
74) 1,2,4-Trimethylbenzene	16.98	105	985957	2.50	ppbv #	68
79) Naphthalene	22.47	128	144566	0.45	ppbv	97

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

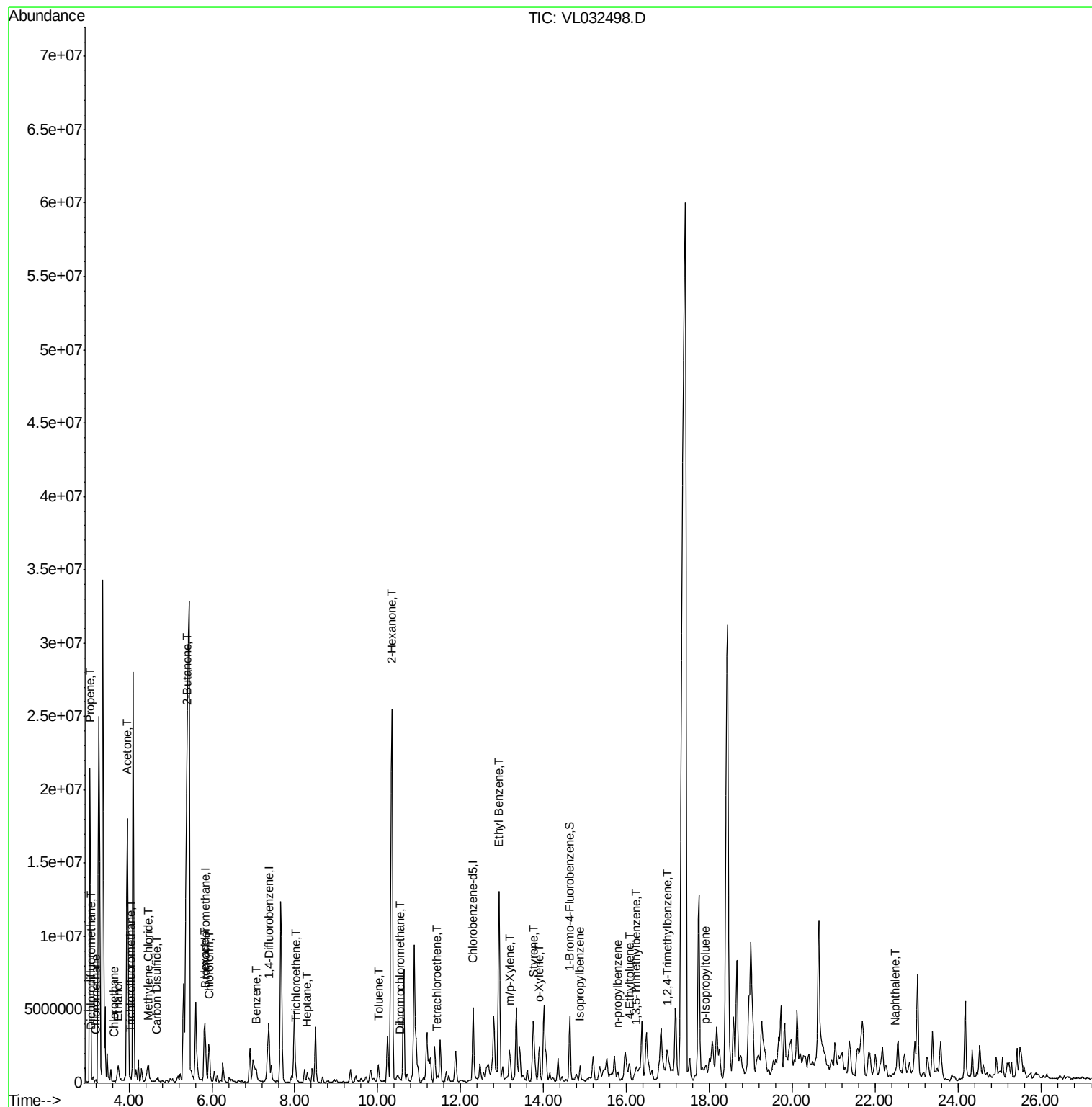
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032498.D
Acq On : 11 Sep 2018 4:00
Operator : SY/AP
Sample : J4820-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

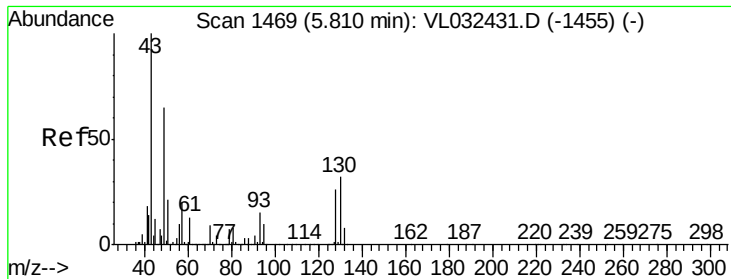
Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

Manual Integrations
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Quant Time: Sep 11 16:35:11 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





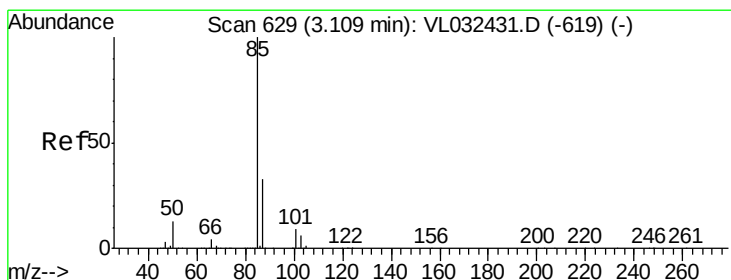
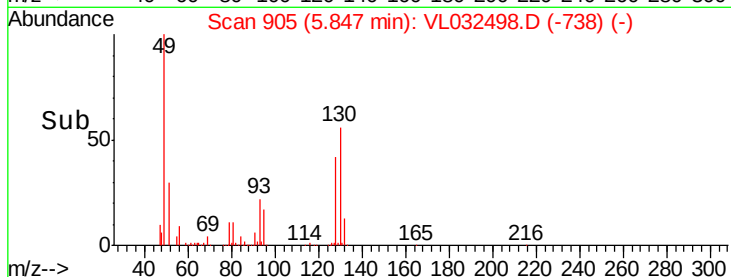
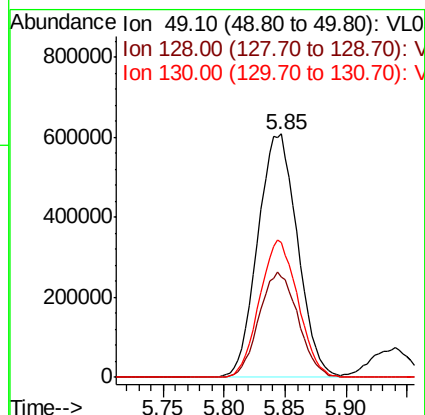
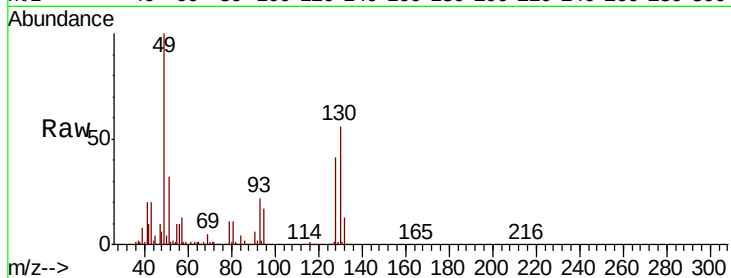
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.85 min Scan# 905
 Delta R.T. 0.04 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

Tot Ion: 49 Resp: 1374167
 Ion Ratio Lower Upper
 49 100
 128 42.3 20.7 62.1
 130 54.5 26.6 79.7

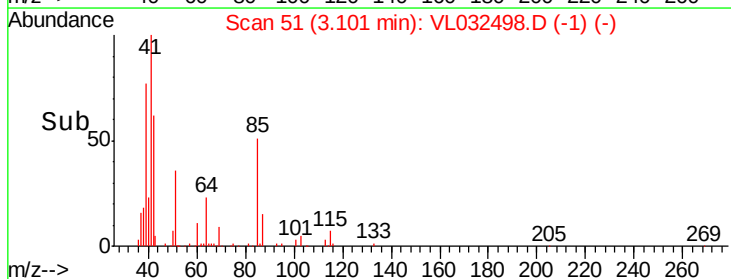
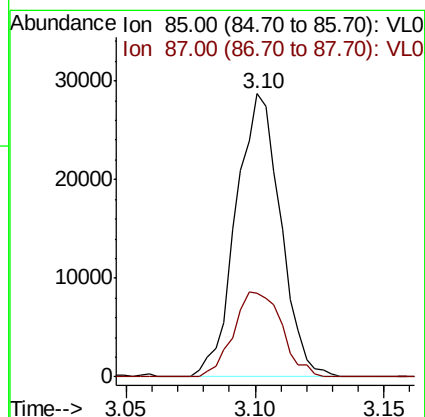
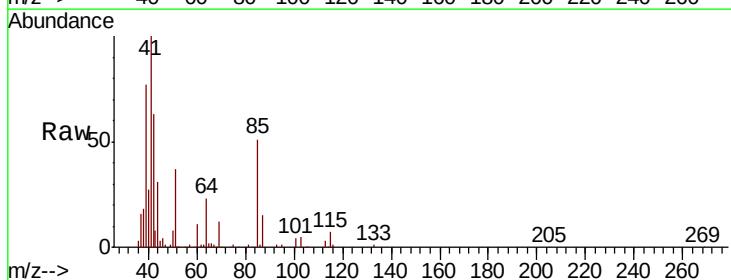
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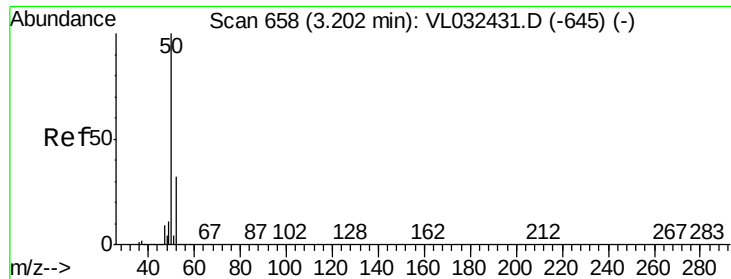
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#2
 Dichlorodifluoromethane
 Concen: 0.20 ppbv
 RT: 3.10 min Scan# 51
 Delta R.T. -0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion: 85 Resp: 34510
 Ion Ratio Lower Upper
 85 100
 87 29.6 26.2 39.4





#4

Chloromethane

Concen: 2.27 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

Tot Ion: 50 Resp: 170911

Ion Ratio Lower Upper

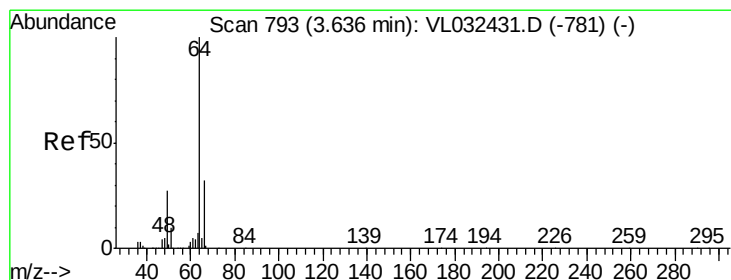
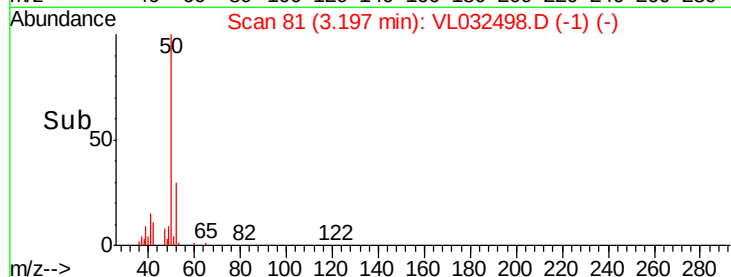
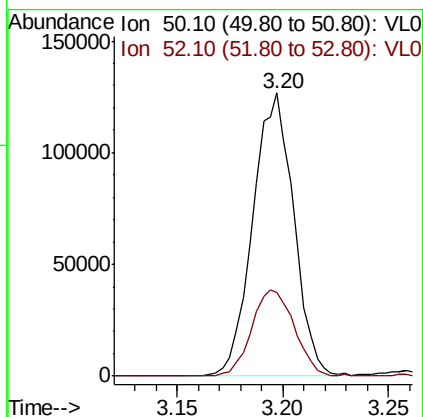
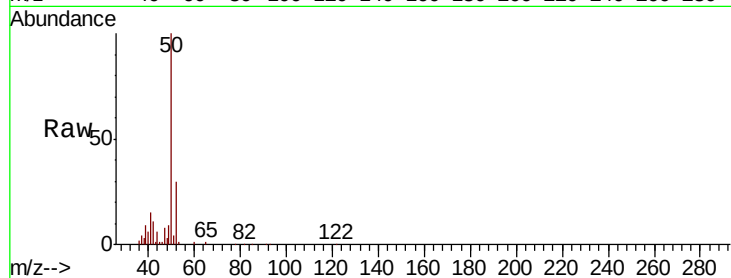
50 100

52 29.7 25.6 38.4

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#7

Chloroethane

Concen: 0.65 ppbv

RT: 3.63 min Scan# 217

Delta R.T. -0.00 min

Lab File: VL032498.D

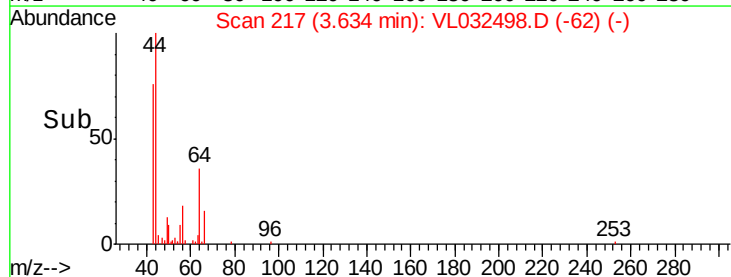
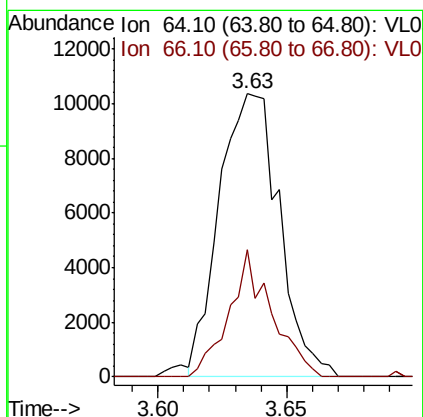
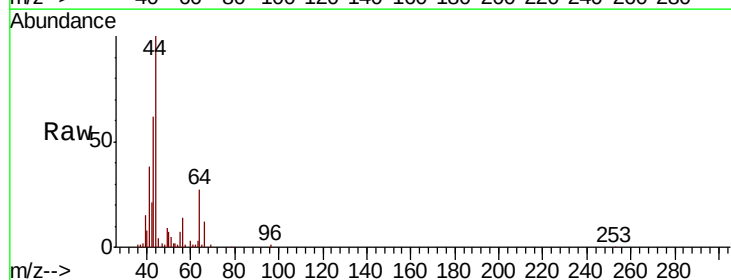
Acq: 11 Sep 2018 4:00

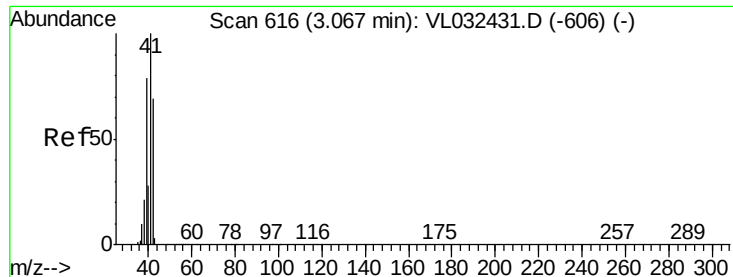
Tgt Ion: 64 Resp: 16823

Ion Ratio Lower Upper

64 100

66 45.0 25.8 38.6#





#9

Propene

Concen: 205.62 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

Tot Ion: 41 Resp:10317501

Ion Ratio Lower Upper

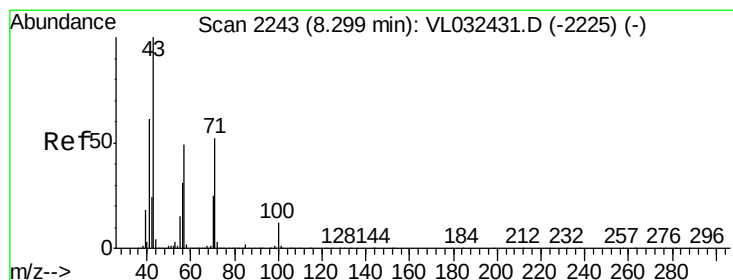
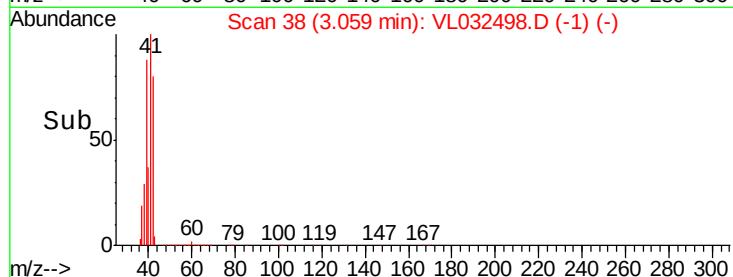
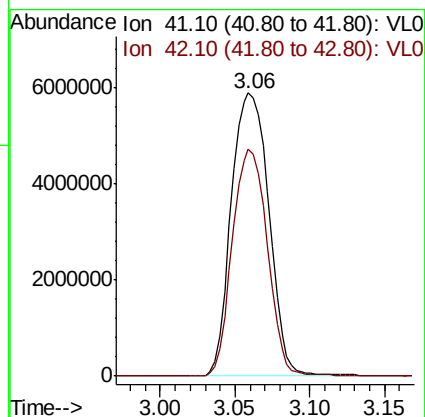
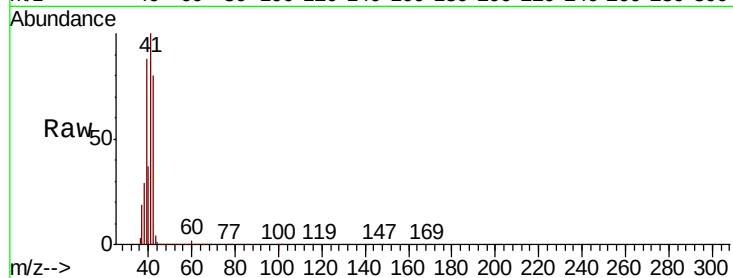
41 100

42 75.1 56.6 84.8

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#10

Heptane

Concen: 2.10 ppbv

RT: 8.30 min Scan# 1668

Delta R.T. 0.00 min

Lab File: VL032498.D

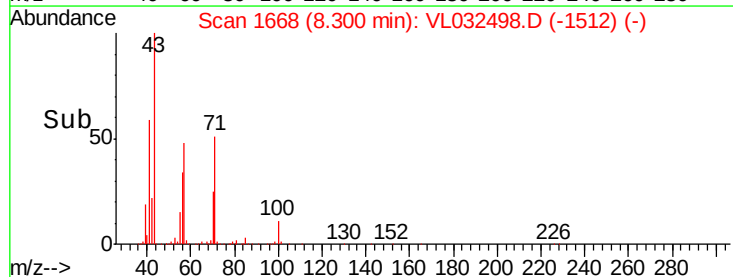
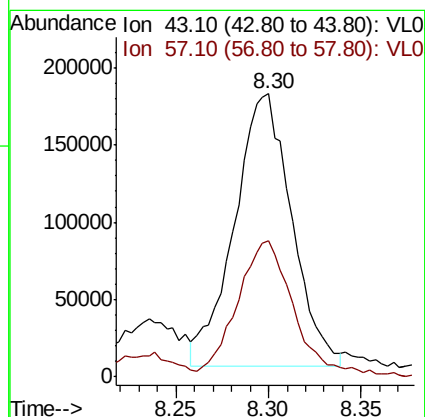
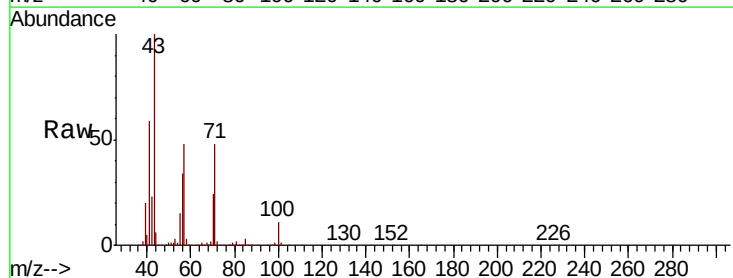
Acq: 11 Sep 2018 4:00

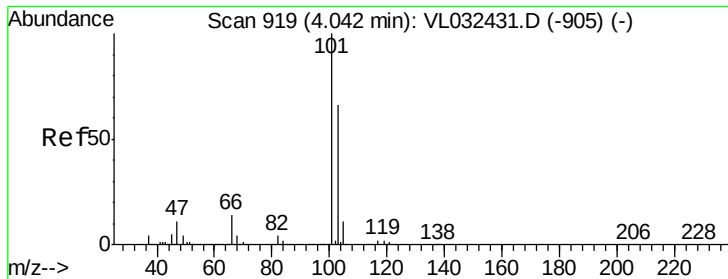
Tgt Ion: 43 Resp: 378812

Ion Ratio Lower Upper

43 100

57 47.9 39.6 59.4





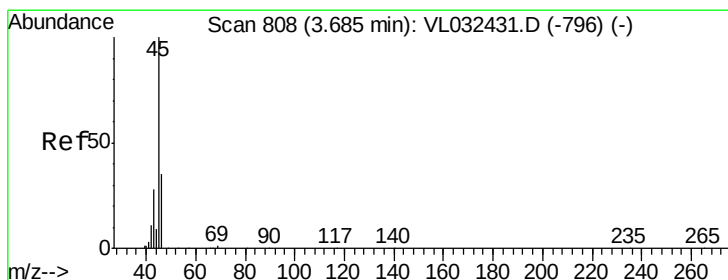
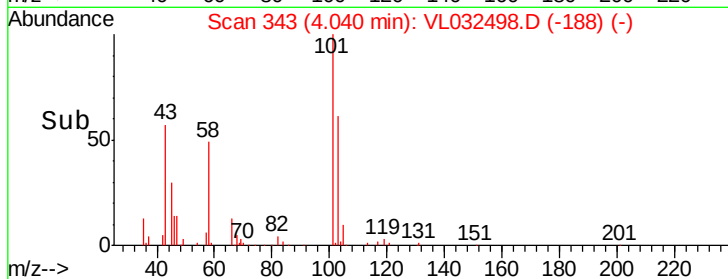
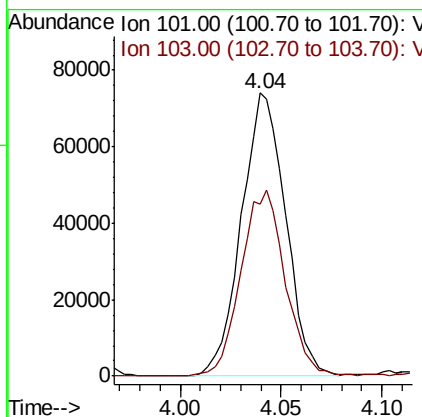
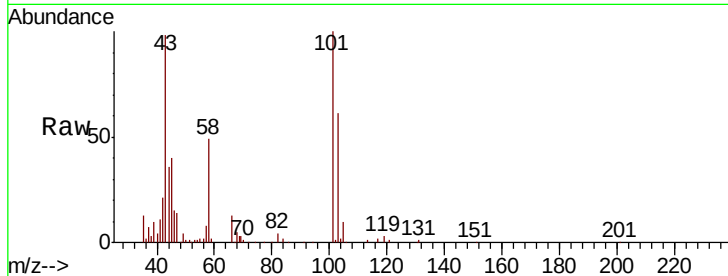
#11
 Trichlorofluoromethane
 Concen: 0.72 ppbv
 RT: 4.04 min Scan# 343
 Delta R.T. -0.00 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	113730		
103	103	60.3	52.8	79.2	

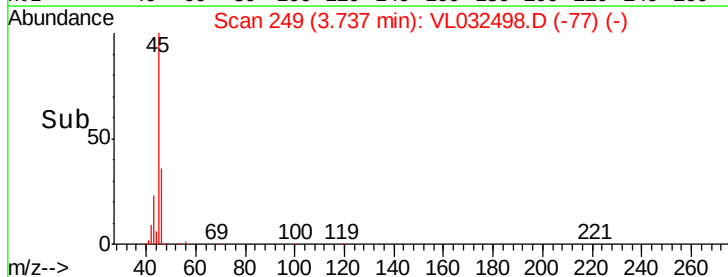
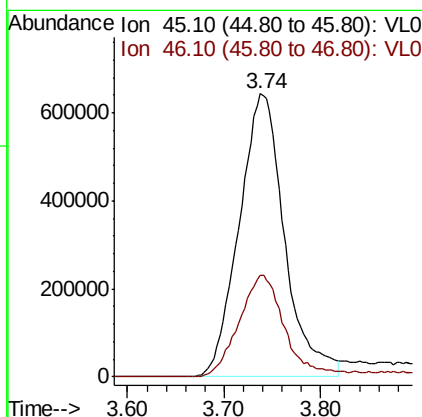
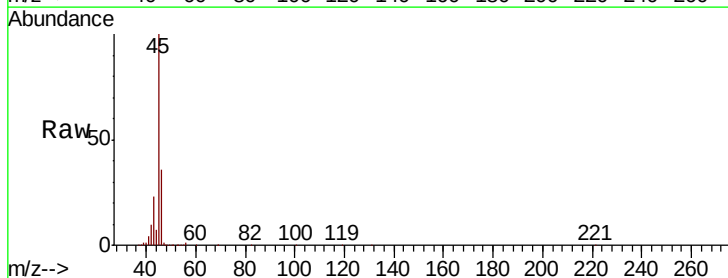
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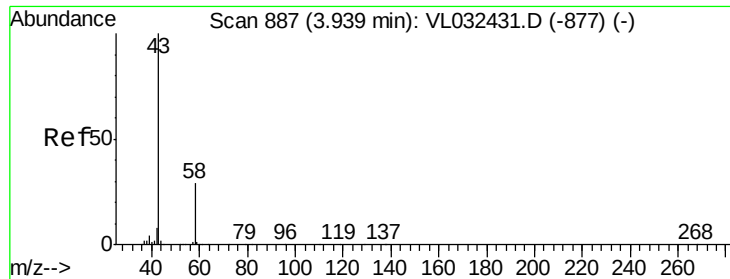
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#13
 Ethanol
 Concen: 133.92 ppbv
 RT: 3.74 min Scan# 249
 Delta R.T. 0.05 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion	Ion	Ratio	Lower	Upper
45	45	100		
46	46	36.6	14.2	56.8





#15

Acetone

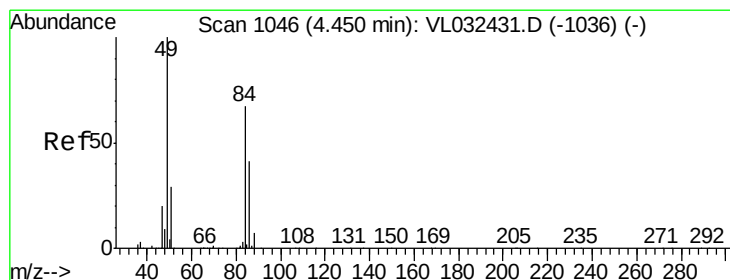
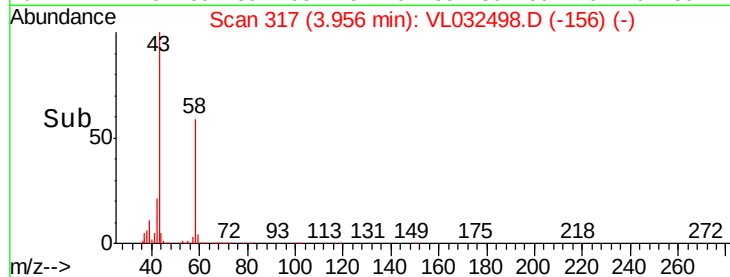
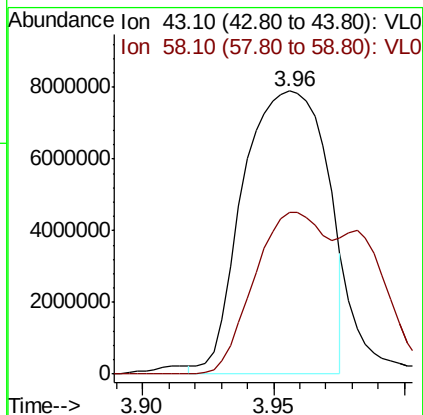
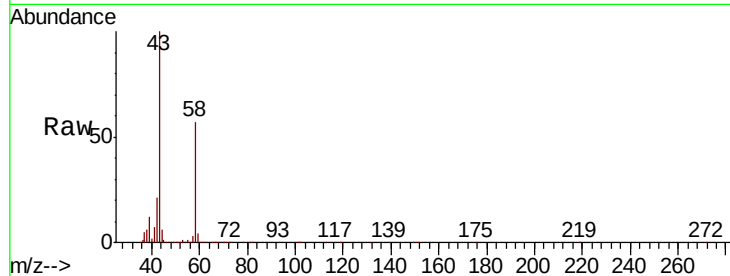
Concen: 142.18 ppbv m
RT: 3.96 min Scan# 317
Delta R.T. 0.02 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

Tot Ion: 43 Resp:17594335
Ion Ratio Lower Upper
43 100
58 79.5 22.6 33.8#

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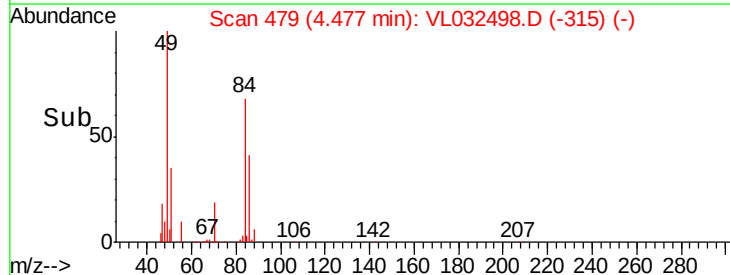
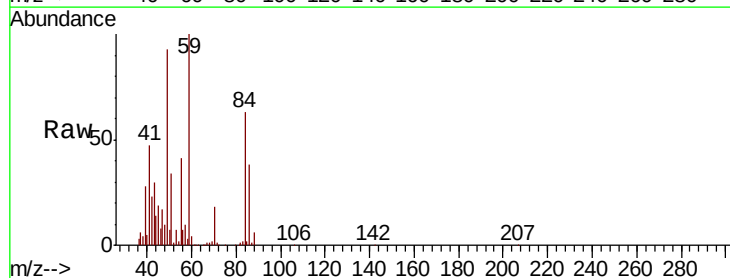
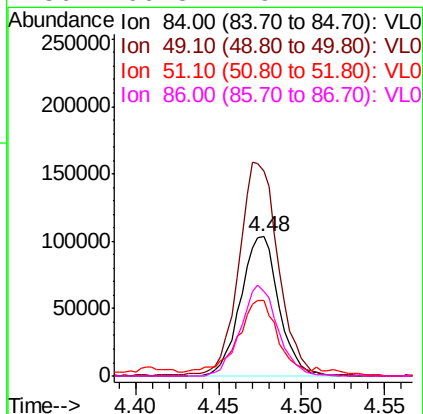


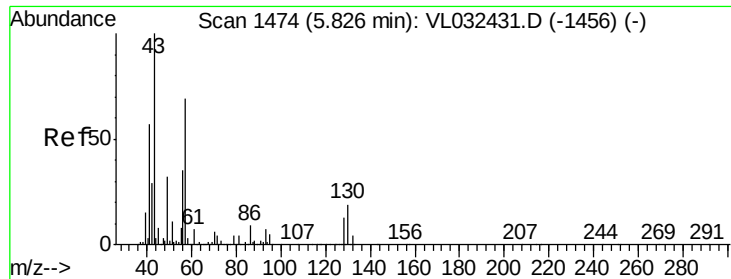
#20

Methylene Chloride

Concen: 3.51 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.03 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Tgt Ion: 84 Resp: 165800
Ion Ratio Lower Upper
84 100
49 145.2 119.1 178.7
51 50.3 35.2 52.8
86 60.8 49.4 74.2





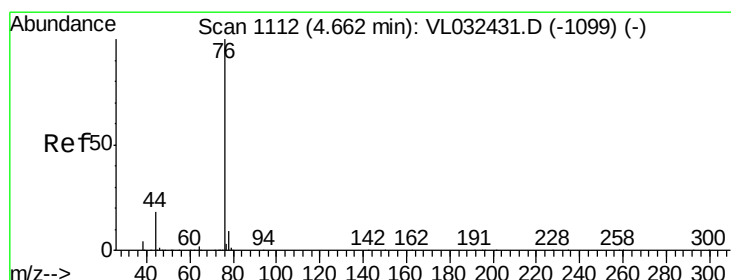
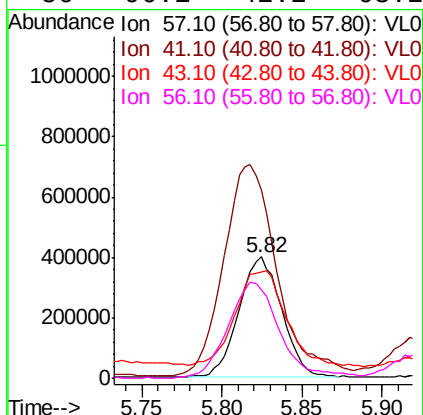
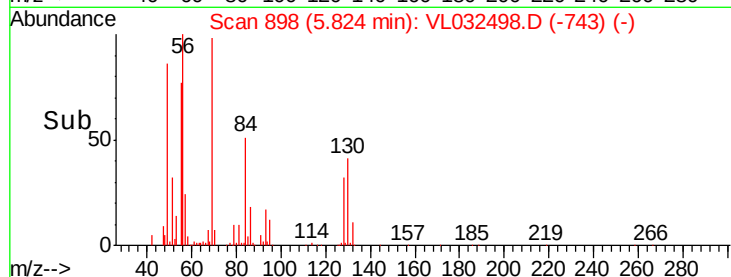
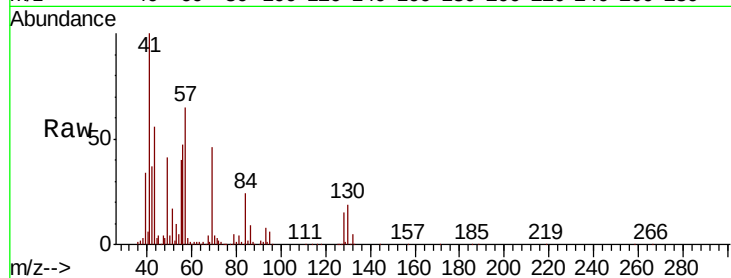
#26
Hexane
Concen: 5.52 ppbv
RT: 5.82 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

Tot Ion	Ratio	Lower	Upper
57	100		
41	219.3	69.0	103.4#
43	92.8	172.1	258.1#
56	96.1	42.2	63.2#

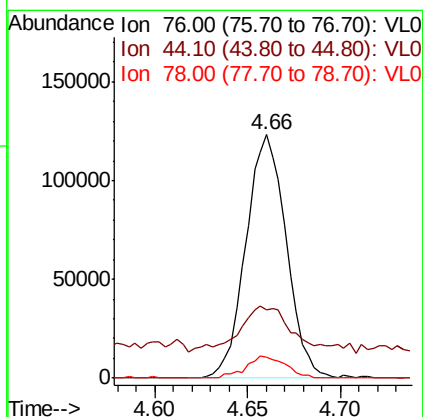
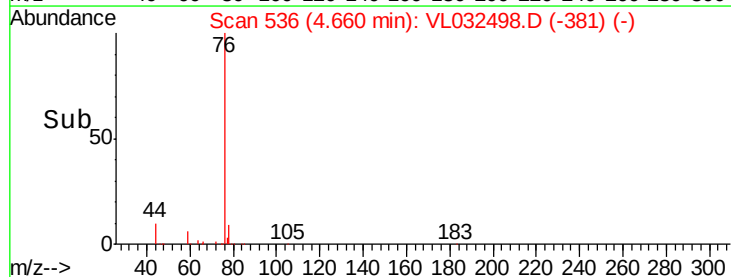
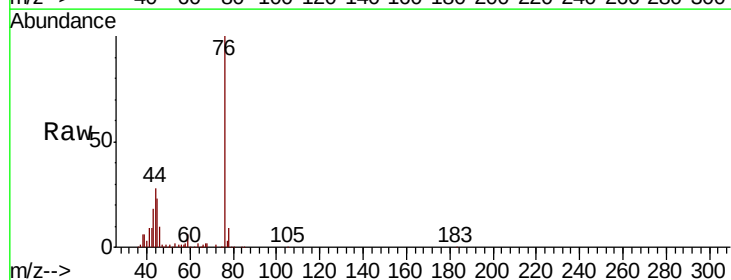
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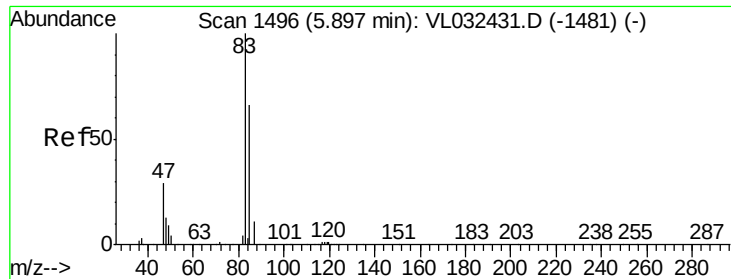
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#27
Carbon Disulfide
Concen: 1.54 ppbv
RT: 4.66 min Scan# 536
Delta R.T. -0.00 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Tgt Ion	Ratio	Lower	Upper
76	100		
44	55.0	14.0	21.0#
78	9.0	7.5	11.3





#29

Chloroform

Concen: 9.00 ppbv

RT: 5.94 min Scan# 933

Delta R.T. 0.04 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

Tot Ion: 83 Resp: 1795851

Ion Ratio Lower Upper

83 100

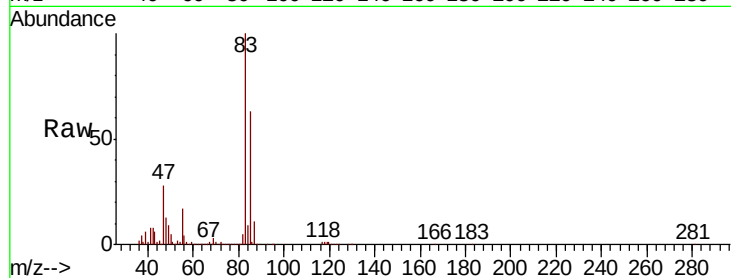
85 63.1 52.5 78.7

Manual Integrations

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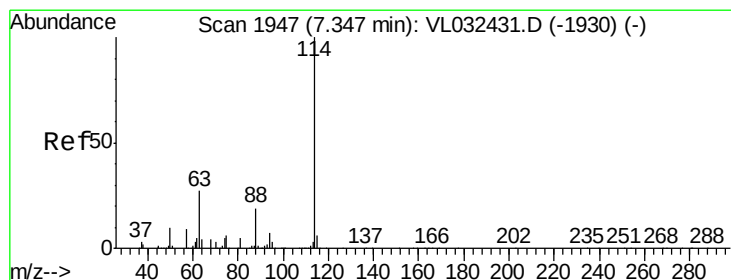
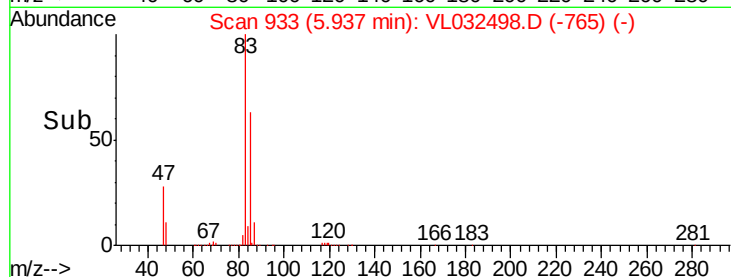
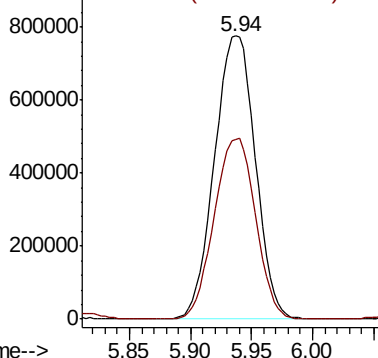
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.37 min Scan# 1380

Delta R.T. 0.03 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

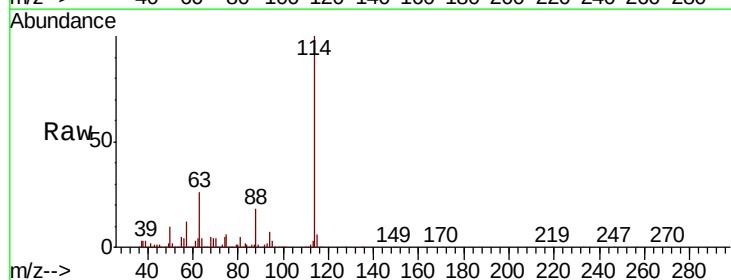
Tgt Ion: 114 Resp: 3275868

Ion Ratio Lower Upper

114 100

63 26.1 22.2 33.4

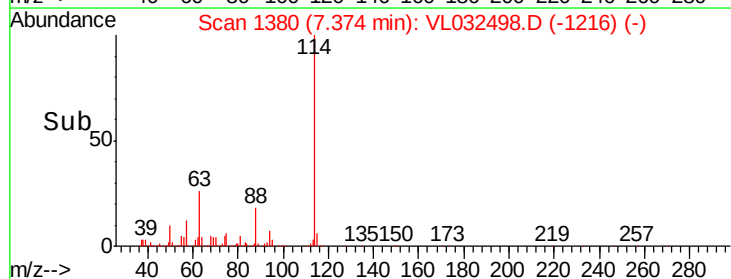
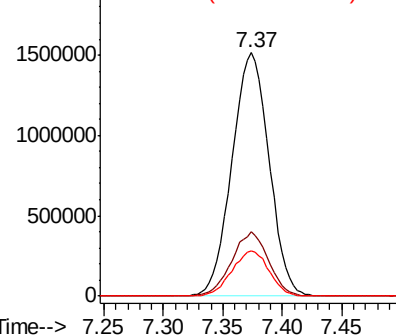
88 18.5 15.0 22.4

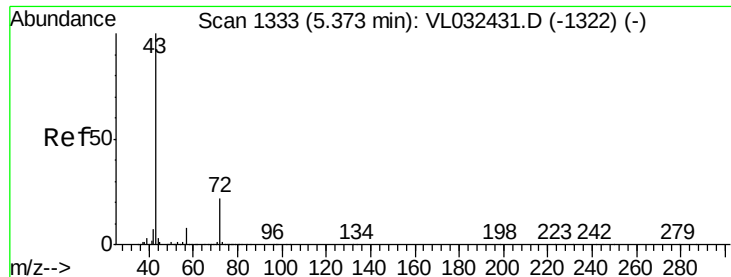


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 254.41 ppbv m

RT: 5.39 min Scan# 762

Delta R.T. 0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

Tot Ion: 43 Resp: 55357817

Ion Ratio Lower Upper

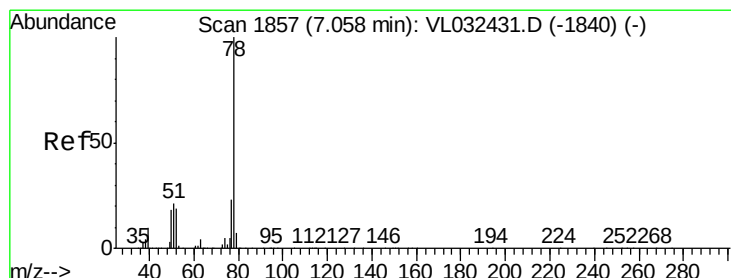
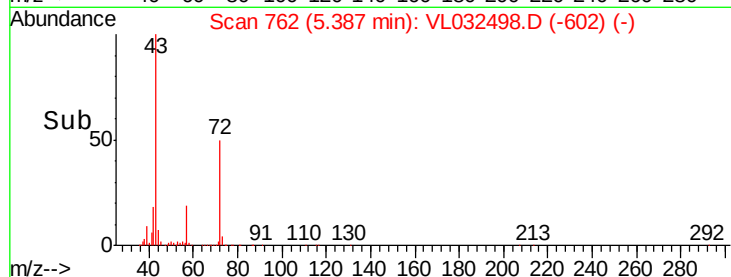
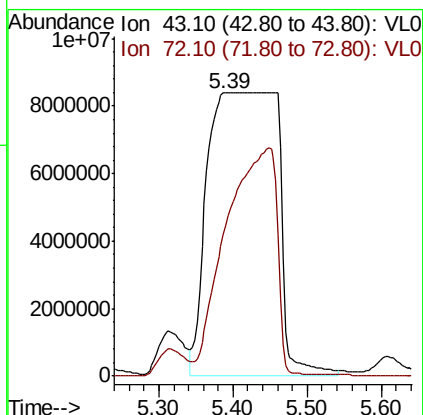
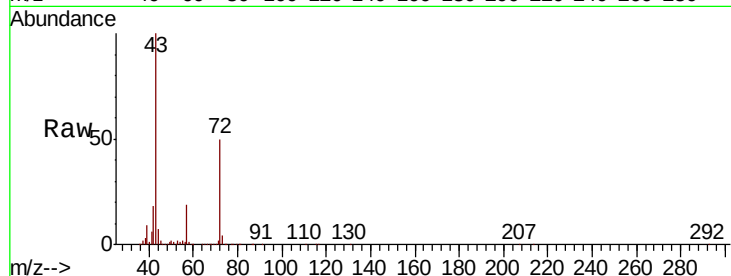
43 100

72 58.4 17.8 26.6#

Manual Integrations
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9/12/2018 3:59:49 PM



#36

Benzene

Concen: 2.63 ppbv

RT: 7.07 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

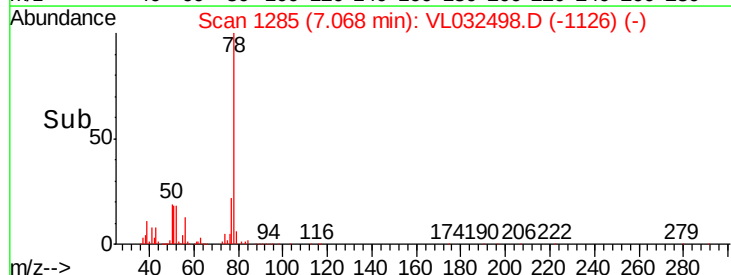
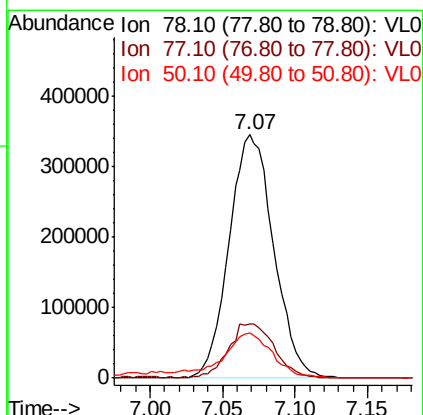
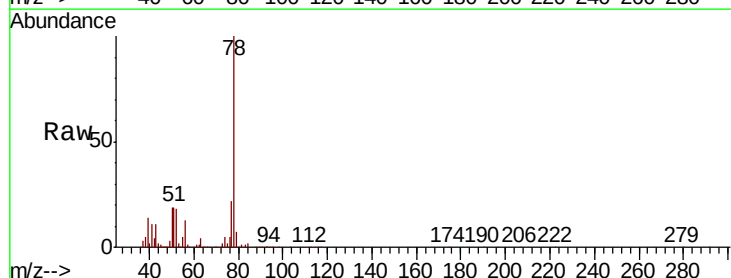
Tgt Ion: 78 Resp: 732545

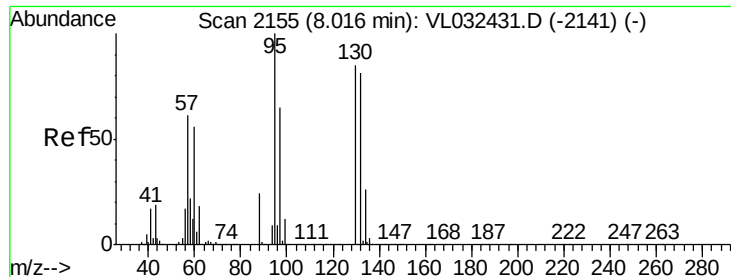
Ion Ratio Lower Upper

78 100

77 21.9 18.4 27.6

50 18.4 14.4 21.6





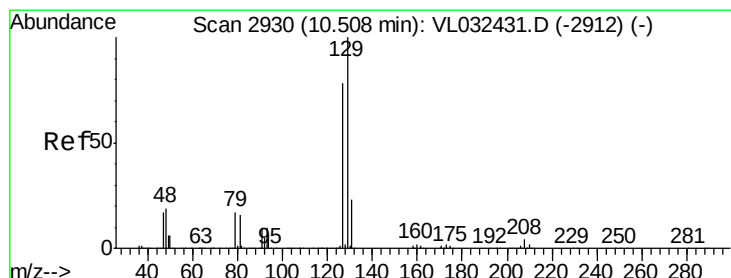
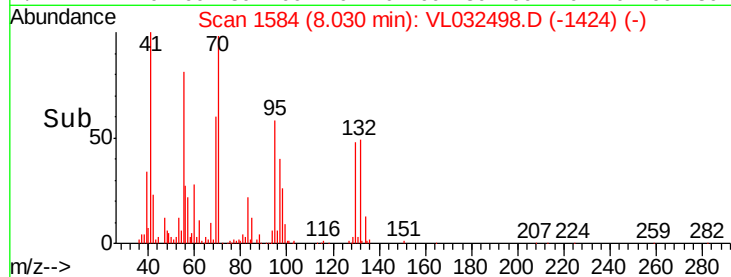
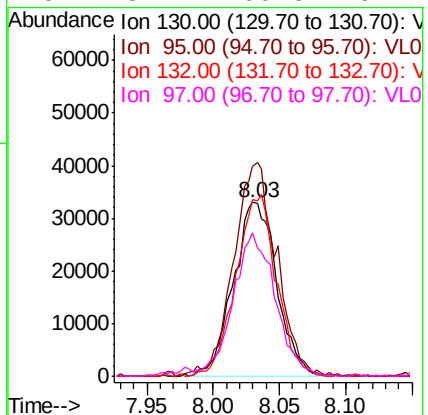
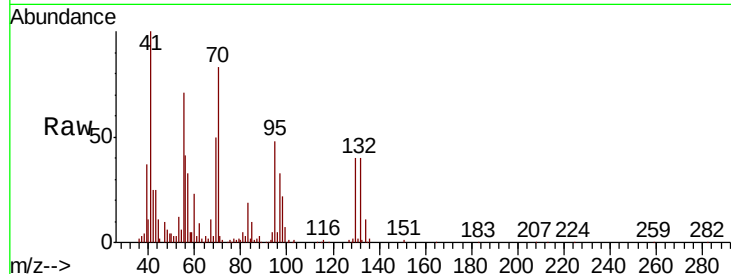
#38
 Trichloroethene
 Concen: 0.71 ppbv
 RT: 8.03 min Scan# 1584
 Delta R.T. 0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

Tot Ion:	130	Resp:	75003
Ion Ratio	Lower	Upper	
130	100		
95	119.6	94.2	141.4
132	103.2	76.2	114.4
97	82.4	60.8	91.2

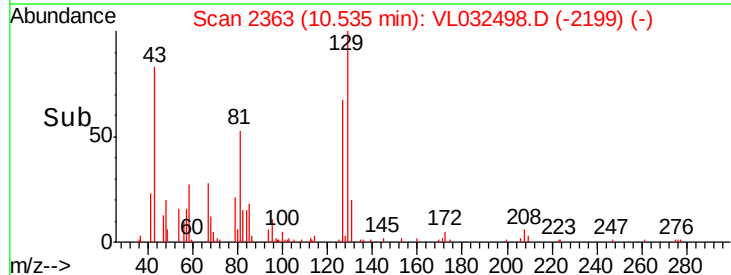
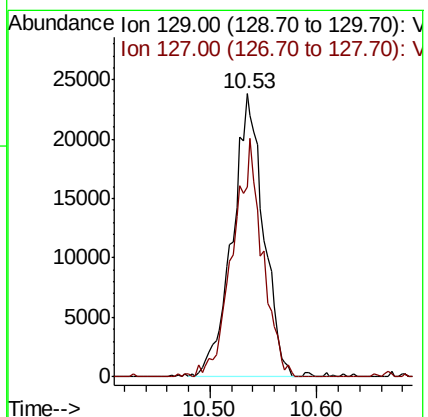
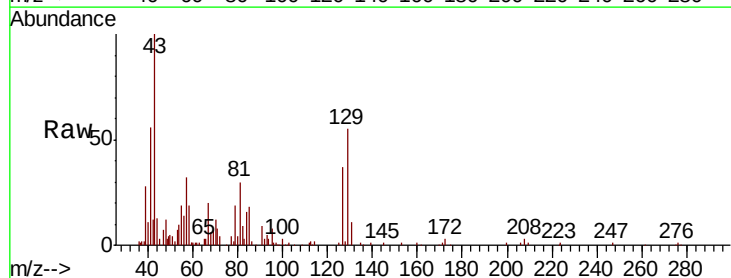
Manual Integrations
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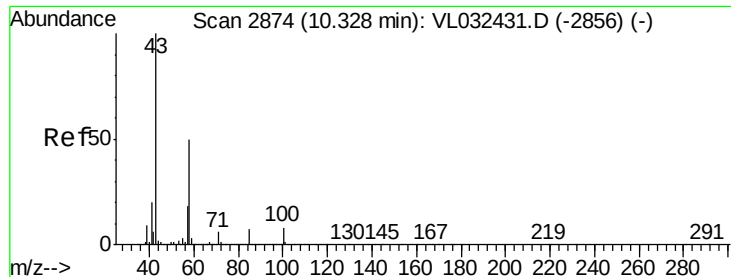
MMDadoda
 9/12/2018 3:59:49 PM



#48
 Dibromochloromethane
 Concen: 0.28 ppbv m
 RT: 10.53 min Scan# 2363
 Delta R.T. 0.03 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion:	129	Resp:	48393
Ion Ratio	Lower	Upper	
129	100		
127	0.0	39.5	118.3#





#51

2-Hexanone

Concen: 131.54 ppbv

RT: 10.34 min Scan# 2303

Delta R.T. 0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampled :

255-BERRY

Tot Ion: 43 Resp: 27772823

Ion Ratio Lower Upper

43 100

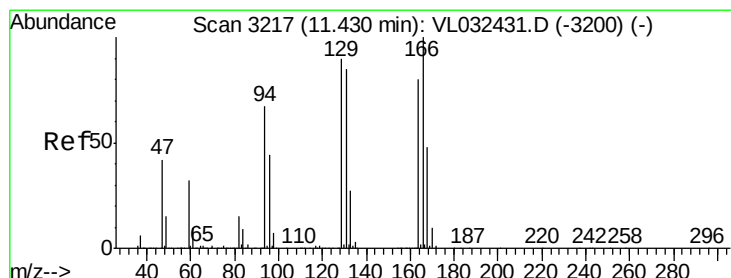
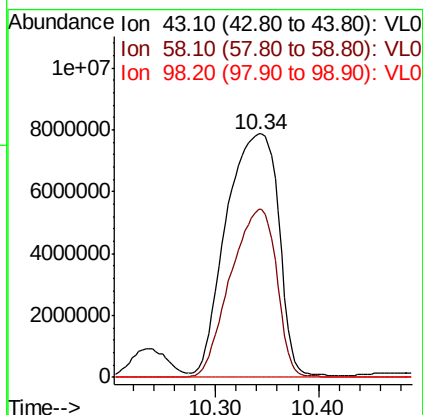
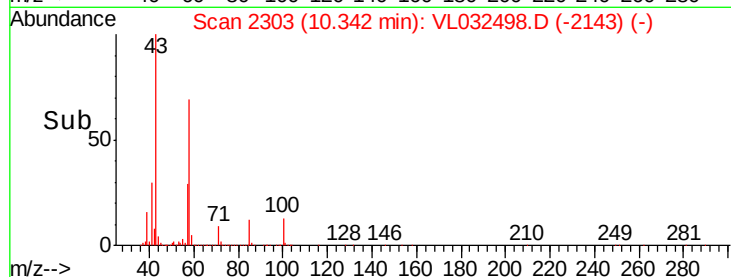
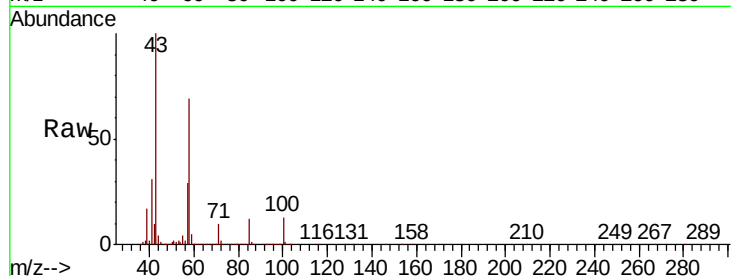
58 60.8 39.2 58.8#

98 0.0 0.4 0.6#

Manual Integrations
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MMDadoda

9/12/2018 3:59:49 PM



#52

Tetrachloroethene

Concen: 1.18 ppbv m

RT: 11.43 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Tgt Ion: 164 Resp: 102290

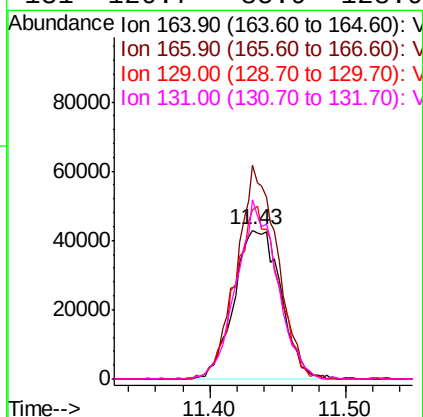
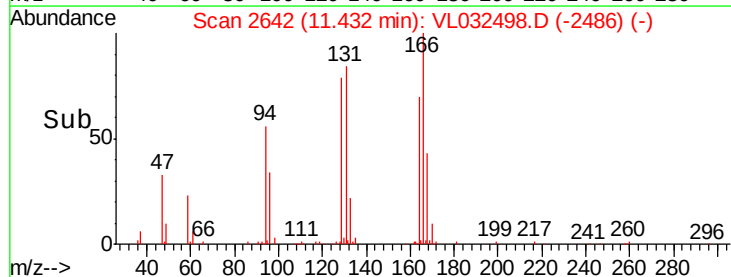
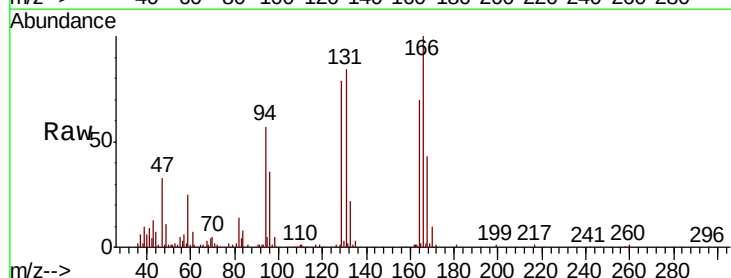
Ion Ratio Lower Upper

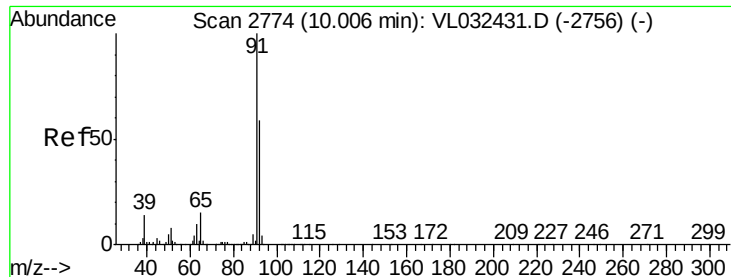
164 100

166 143.4 100.6 150.8

129 113.3 89.9 134.9

131 120.7 85.9 128.9





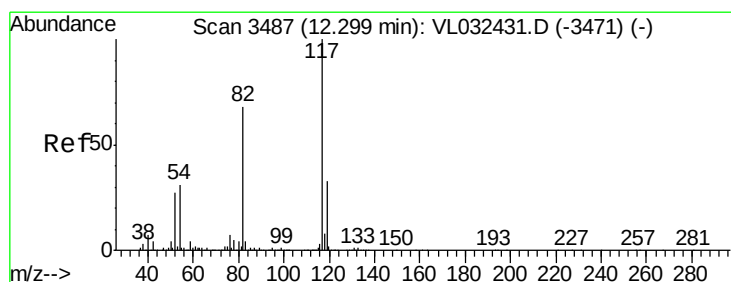
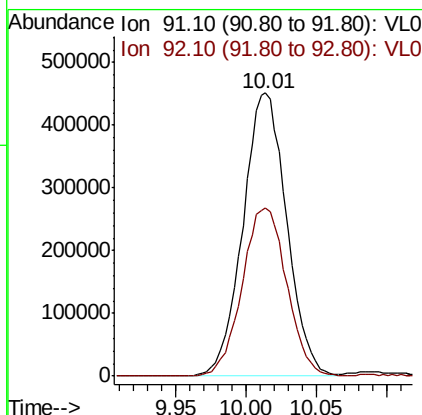
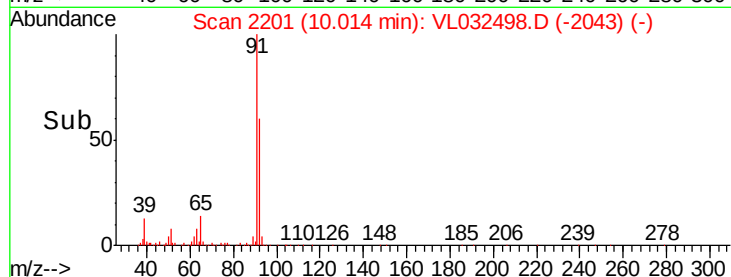
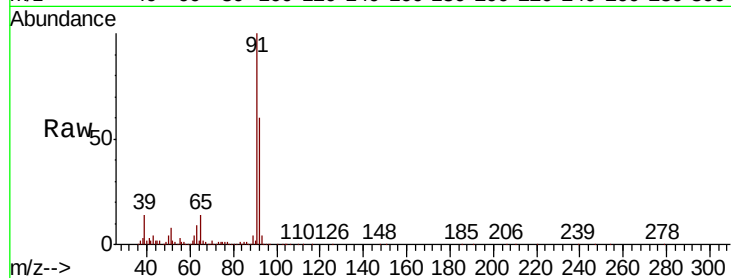
#53
Toluene
Concen: 3.36 ppbv
RT: 10.01 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Instrument :
MSVOA_L
ClientSampled :
255-BERRY

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.1	72.1

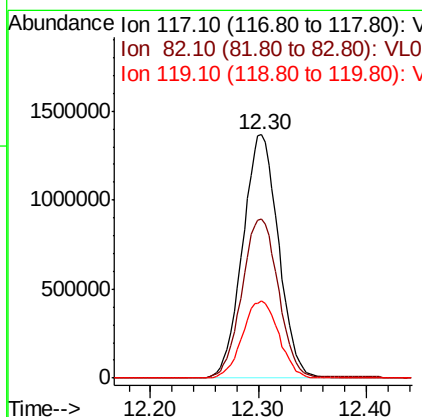
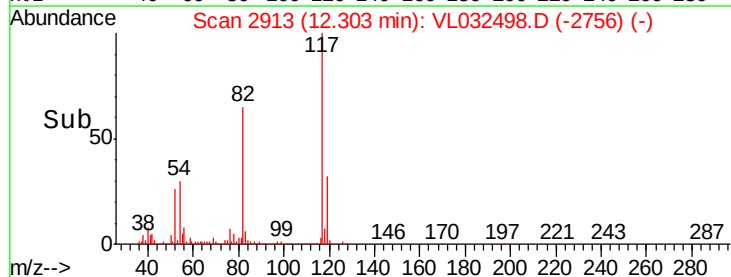
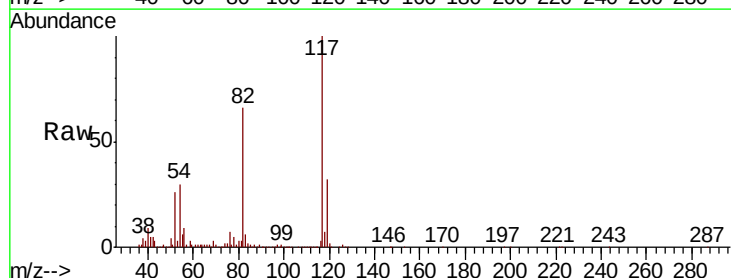
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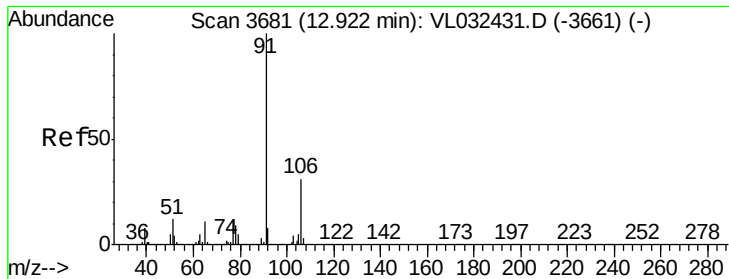
MMDadoda
9/12/2018 3:59:49 PM



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Tgt Ion	Ratio	Lower	Upper
117	100		
82	67.0	53.0	79.6
119	32.4	45.9	68.9#





#58

Ethyl Benzene

Concen: 1.26 ppbv

RT: 12.92 min Scan# 3106

Delta R.T. 0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

Tot Ion: 91 Resp: 472612

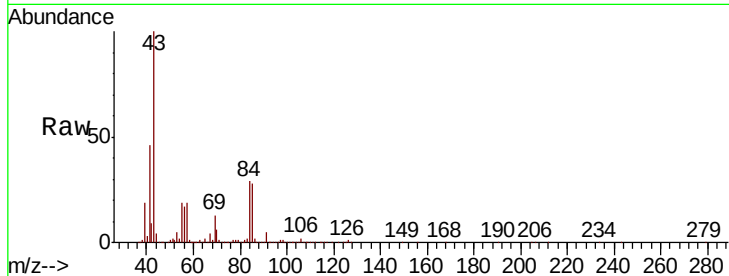
Ion Ratio Lower Upper

91 100

106 28.7 24.8 37.2

Manual Integrations
APPROVED

MMDadoda
9/12/2018 3:59:49 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.92

200000

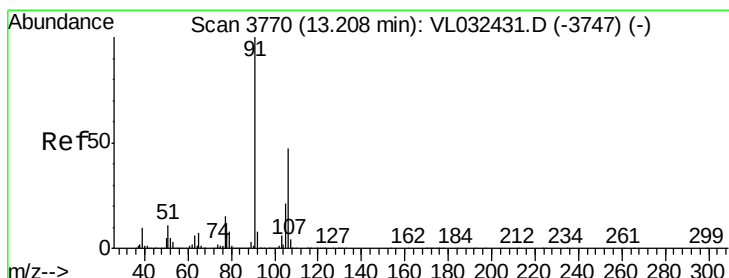
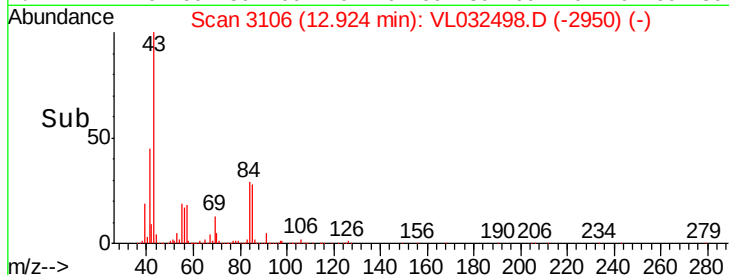
150000

100000

50000

0

Time-->



#59

m/p-Xylene

Concen: 5.22 ppbv

RT: 13.18 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VL032498.D

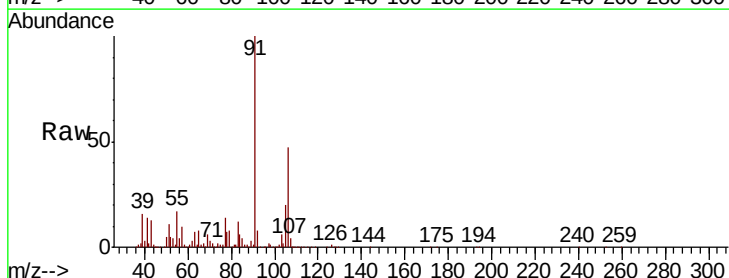
Acq: 11 Sep 2018 4:00

Tgt Ion: 91 Resp: 1750674

Ion Ratio Lower Upper

91 100

106 47.5 36.6 55.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.18

600000

500000

400000

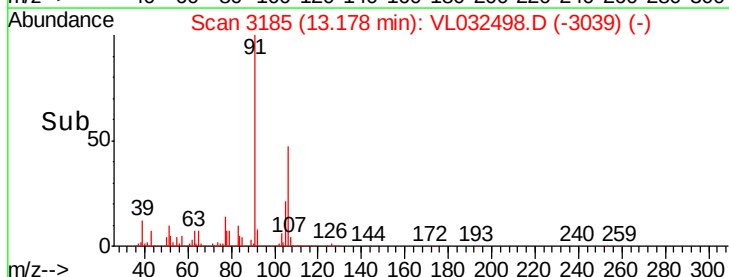
300000

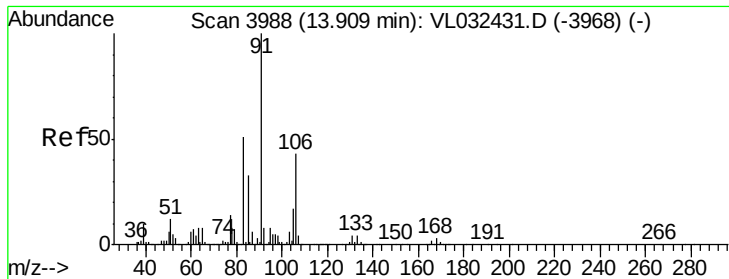
200000

100000

0

Time-->





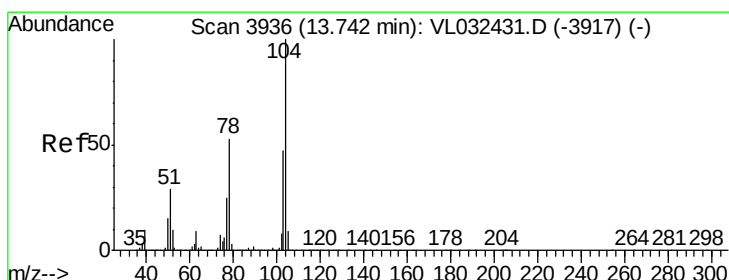
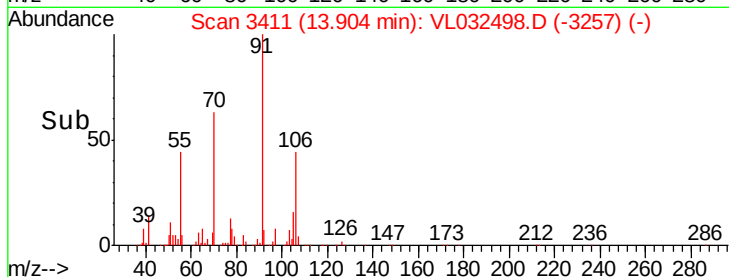
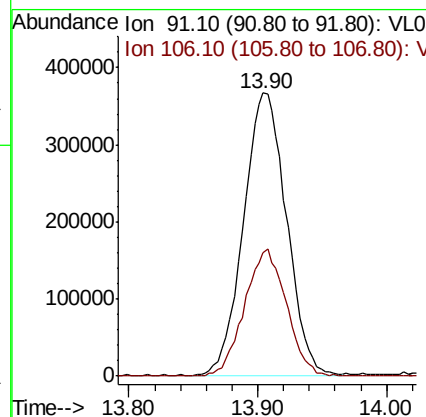
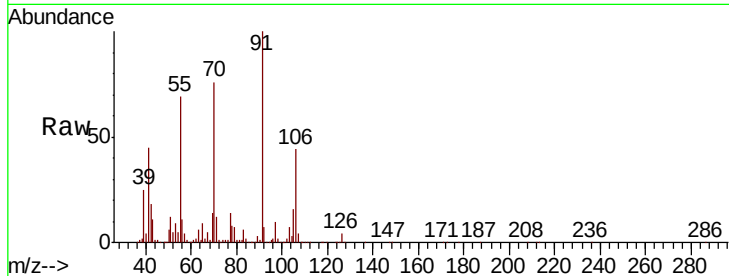
#60
o-Xylene
Concen: 2.58 ppbv
RT: 13.90 min Scan# 3411
Delta R.T. -0.01 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

Tot Ion: 91 Resp: 849280
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.7

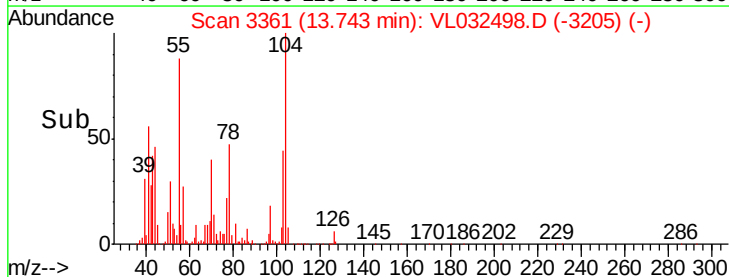
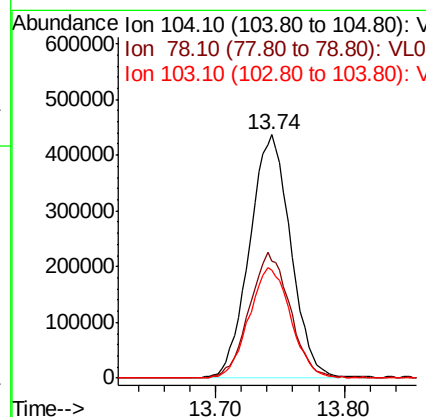
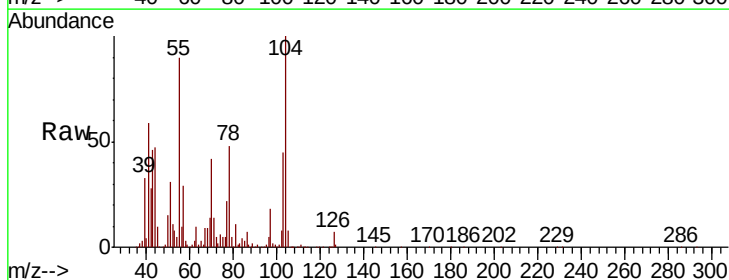
Manual Integrations
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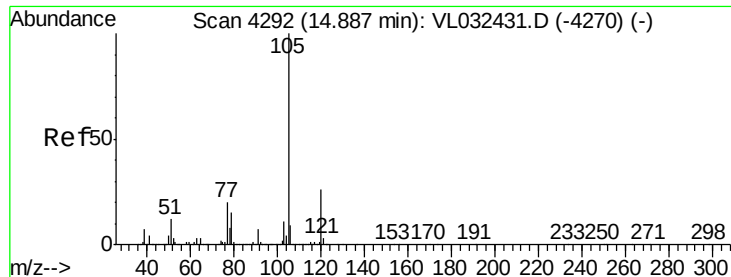
MMDadoda
9/12/2018 3:59:49 PM



#61
Styrene
Concen: 4.55 ppbv
RT: 13.74 min Scan# 3361
Delta R.T. 0.00 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Tgt Ion: 104 Resp: 970781
Ion Ratio Lower Upper
104 100
78 51.3 41.8 62.8
103 45.9 38.0 57.0





#62

Isopropylbenzene

Concen: 2.08 ppbv

RT: 14.88 min Scan# 3715

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

Tot Ion:105 Resp: 963184

Ion Ratio Lower Upper

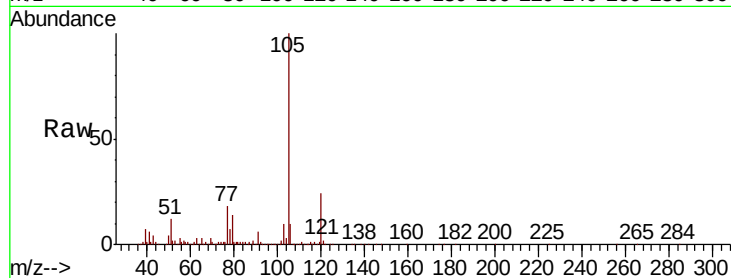
105 100

120 24.8 20.6 31.0

Manual Integrations
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MMDadoda

9/12/2018 3:59:49 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.88

400000

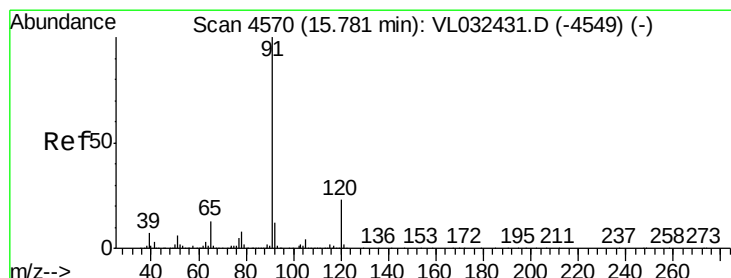
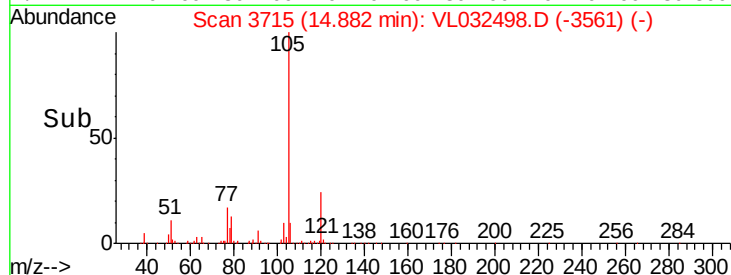
300000

200000

100000

0

Time-->



#64

n-propylbenzene

Concen: 0.42 ppbv m

RT: 15.77 min Scan# 3992

Delta R.T. -0.01 min

Lab File: VL032498.D

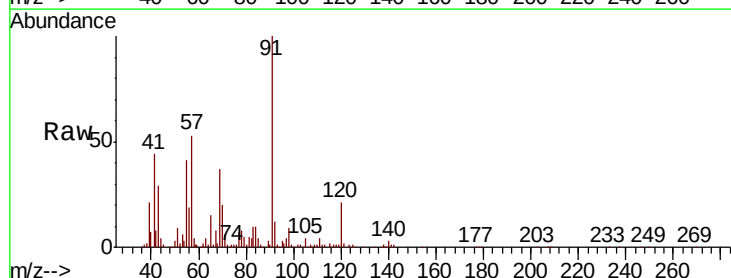
Acq: 11 Sep 2018 4:00

Tgt Ion:120 Resp: 51019

Ion Ratio Lower Upper

120 100

91 0.0 381.8 572.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

15.77

120000

100000

80000

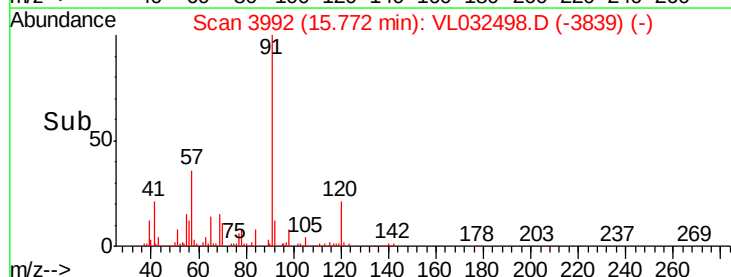
60000

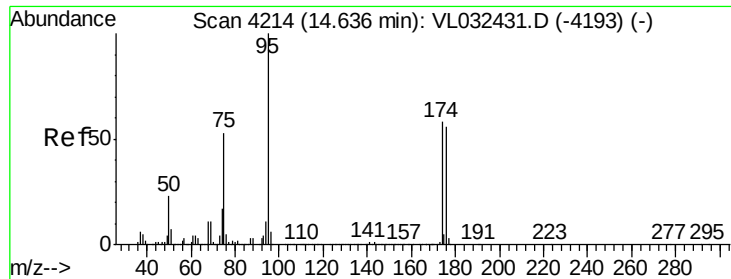
40000

20000

0

Time-->





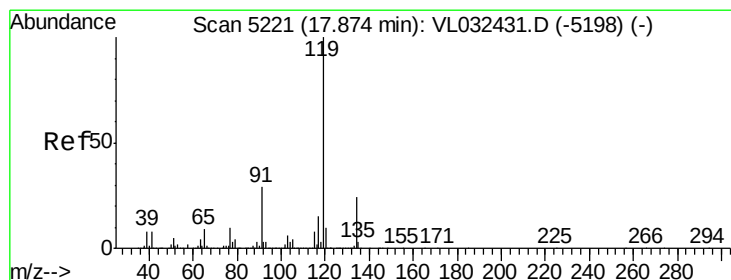
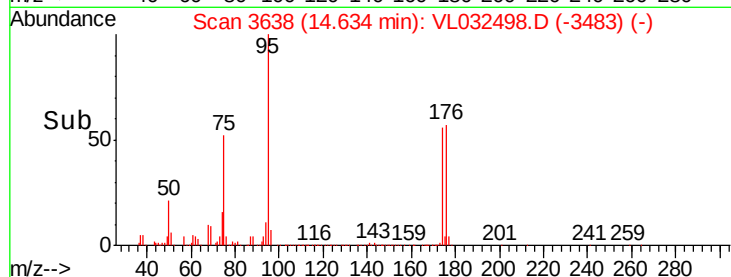
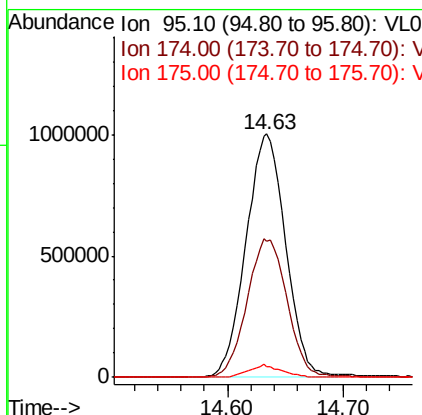
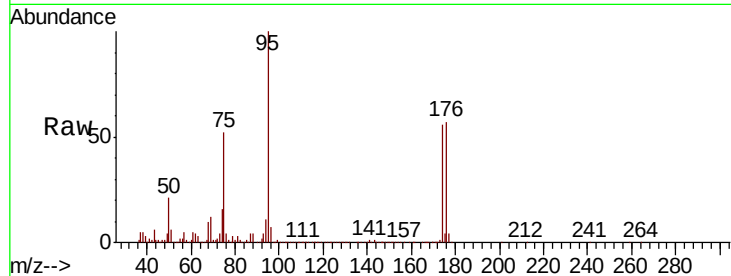
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.20 ppbv
 RT: 14.63 min Scan# 3638
 Delta R.T. -0.00 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Instrument :
 MSVOA_L
 ClientSampled :
 255-BERRY

Tot Ion: 95 Resp: 2381533
 Ion Ratio Lower Upper
 95 100
 174 58.1 46.3 69.5
 175 4.4 3.4 5.0

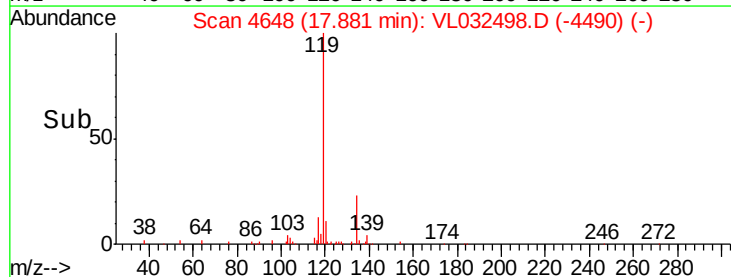
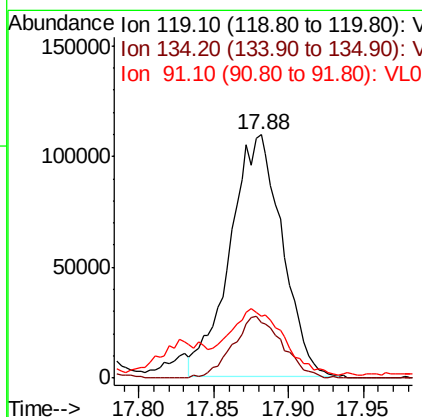
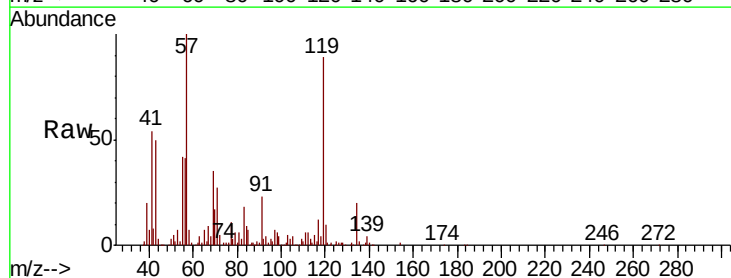
Manual Integrations
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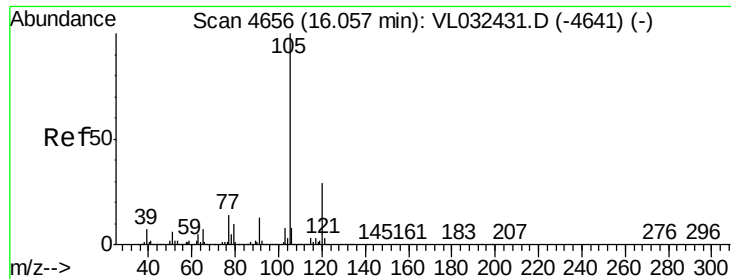
MMDadoda
 9/12/2018 3:59:49 PM



#69
 p-Isopropyltoluene
 Concen: 0.57 ppbv
 RT: 17.88 min Scan# 4648
 Delta R.T. 0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion: 119 Resp: 264870
 Ion Ratio Lower Upper
 119 100
 134 24.0 20.4 30.6
 91 40.8 23.4 35.2#





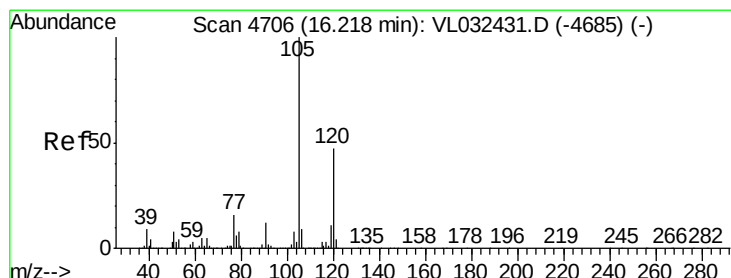
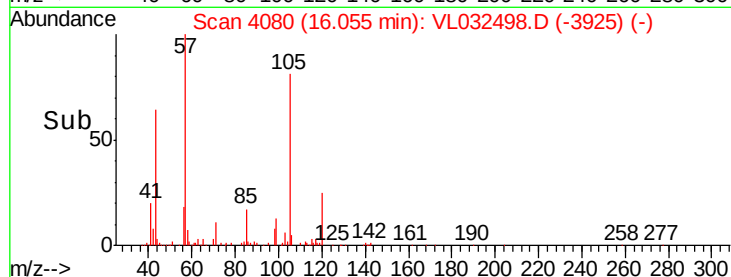
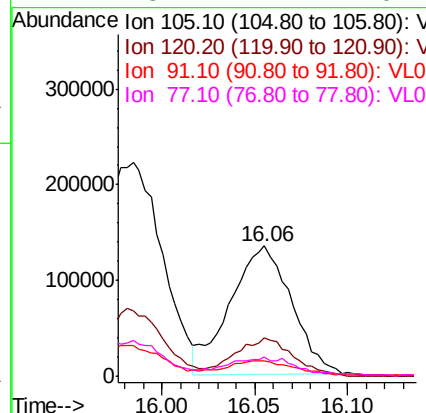
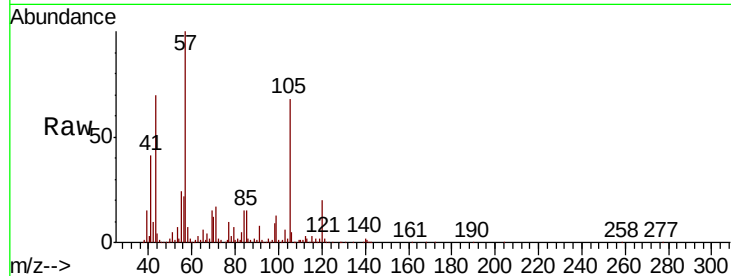
#72
 4-Ethyltoluene
 Concen: 0.86 ppbv
 RT: 16.06 min Scan# 4080
 Delta R.T. -0.00 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

Tot Ion	Ratio	Resp	Lower	Upper
105	100	308101		
120	27.8	23.5	35.3	
91	12.7	10.2	15.2	
77	15.7	11.1	16.7	

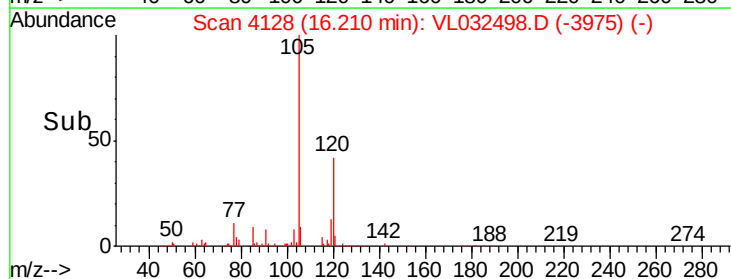
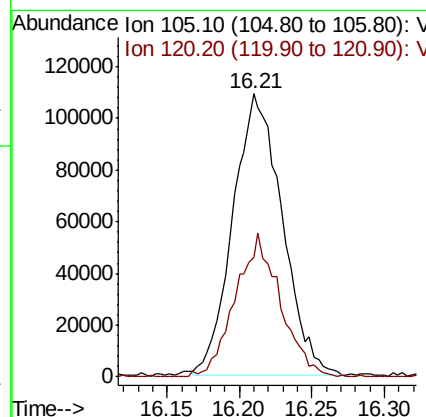
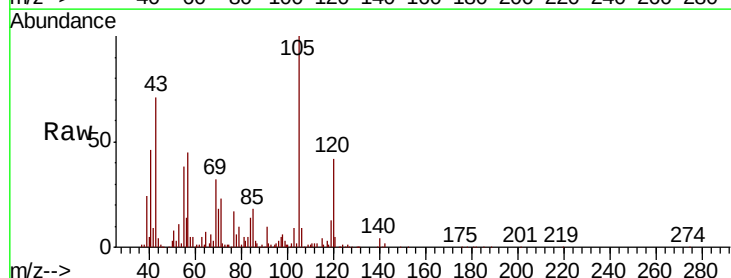
Manual Integrations
 APPROVED

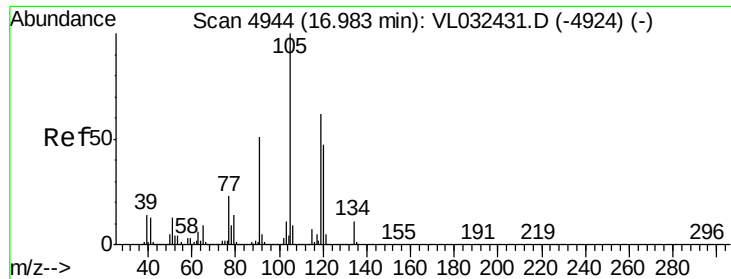
MMDadoda
 9/12/2018 3:59:49 PM



#73
 1,3,5-Trimethylbenzene
 Concen: 0.72 ppbv
 RT: 16.21 min Scan# 4128
 Delta R.T. -0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	258063		
120	41.8	37.9	56.9	





#74

1,2,4-Trimethylbenzene

Concen: 2.50 ppbv

RT: 16.98 min Scan# 4368

Delta R.T. -0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

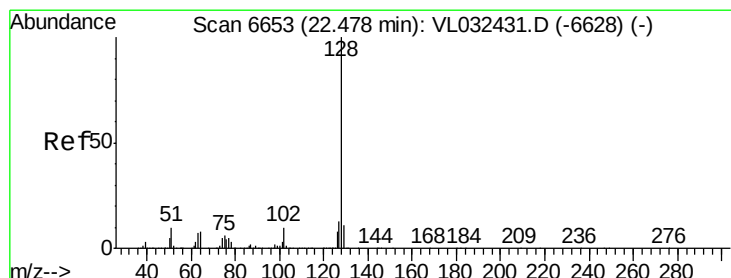
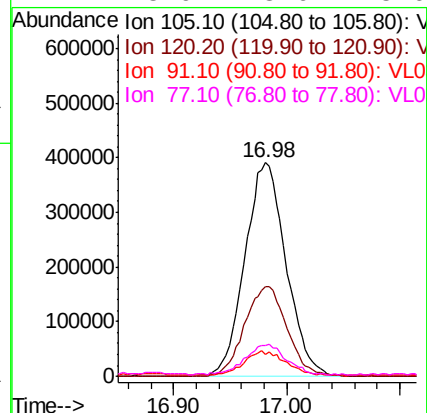
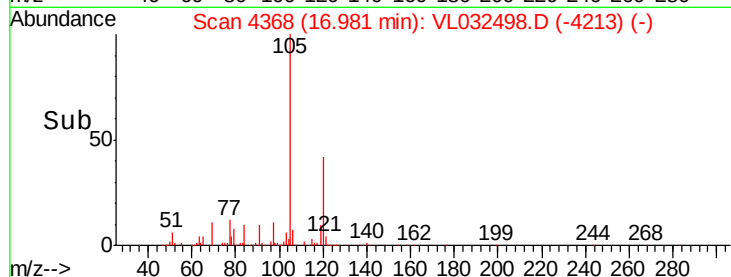
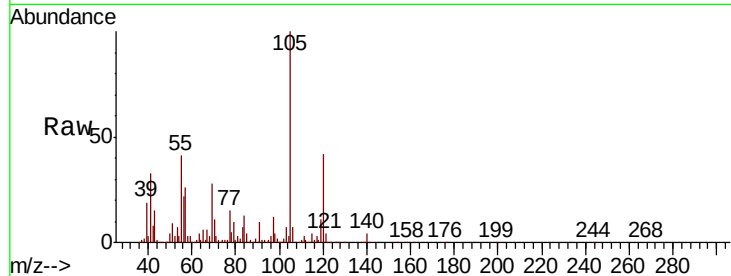
ClientSampleId :

255-BERRY

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	985957		
120	120	41.9		37.8	56.8
91	91	9.9		41.4	62.0
77	77	13.9		18.6	28.0

Manual Integrations
APPROVED

MMDadoda
9/12/2018 3:59:49 PM



#79

Naphthalene

Concen: 0.45 ppbv

RT: 22.47 min Scan# 6076

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
128	128	100	144566		
127	127	13.9		10.2	15.2
129	129	11.9		8.5	12.7

