

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032492.D
 Acq On : 11 Sep 2018 00:02
 Operator : SY/AP
 Sample : J4820-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRY

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:42 PM

Quant Time: Sep 11 15:58:31 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	5.82	49	1469482	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.35	114	3808203	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3374643	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	3021982	12.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	120.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.10	85	69306	0.37	ppbv	100
3) Chlorodifluoromethane	3.04	51	51540m	0.39	ppbv	
4) Chloromethane	3.20	50	73303	0.91	ppbv	93
7) Chloroethane	3.63	64	8948	0.33	ppbv	96
9) Propene	3.06	41	5700118	106.23	ppbv	98
10) Heptane	8.30	43	2212677	11.49	ppbv	98
11) Trichlorofluoromethane	4.04	101	62107	0.37	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.60	101	11319	0.10	ppbv	84
13) Ethanol	3.70	45	361798	21.63	ppbv	98
15) Acetone	3.94	43	9802966m	74.08	ppbv	
20) Methylene Chloride	4.46	84	182780	3.62	ppbv	98
26) Hexane	5.83	57	2377357	16.99	ppbv #	44
27) Carbon Disulfide	4.66	76	453235	3.51	ppbv	96
29) Chloroform	5.91	83	1865585	8.74	ppbv	97
30) Cyclohexane	7.30	84	1547181	15.10	ppbv #	78
34) 2-Butanone	5.38	43	33073168m	130.75	ppbv	
36) Benzene	7.06	78	4544830	14.02	ppbv	99
38) Trichloroethene	8.02	130	39606	0.32	ppbv #	83
44) 2,2,4-Trimethylpentane	8.05	57	2994312	4.78	ppbv #	4
51) 2-Hexanone	10.32	43	19890458	81.04	ppbv #	96
52) Tetrachloroethene	11.42	164	20203m	0.20	ppbv	
53) Toluene	10.00	91	3691162	10.90	ppbv	99
58) Ethyl Benzene	12.92	91	1723936	4.27	ppbv	97
59) m/p-Xylene	13.17	91	3022910	8.40	ppbv	98
60) o-Xylene	13.90	91	1249219	3.53	ppbv	100
61) Styrene	13.74	104	1236179	5.40	ppbv	98
62) Isopropylbenzene	14.88	105	1599930	3.22	ppbv	99
69) p-Isopropyltoluene	17.88	119	346833	0.69	ppbv #	81
72) 4-Ethyltoluene	16.05	105	539141	1.40	ppbv	98
73) 1,3,5-Trimethylbenzene	16.21	105	1037741	2.68	ppbv	98
74) 1,2,4-Trimethylbenzene	16.98	105	1858763m	4.40	ppbv	
79) Naphthalene	22.48	128	161594	0.47	ppbv	97

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

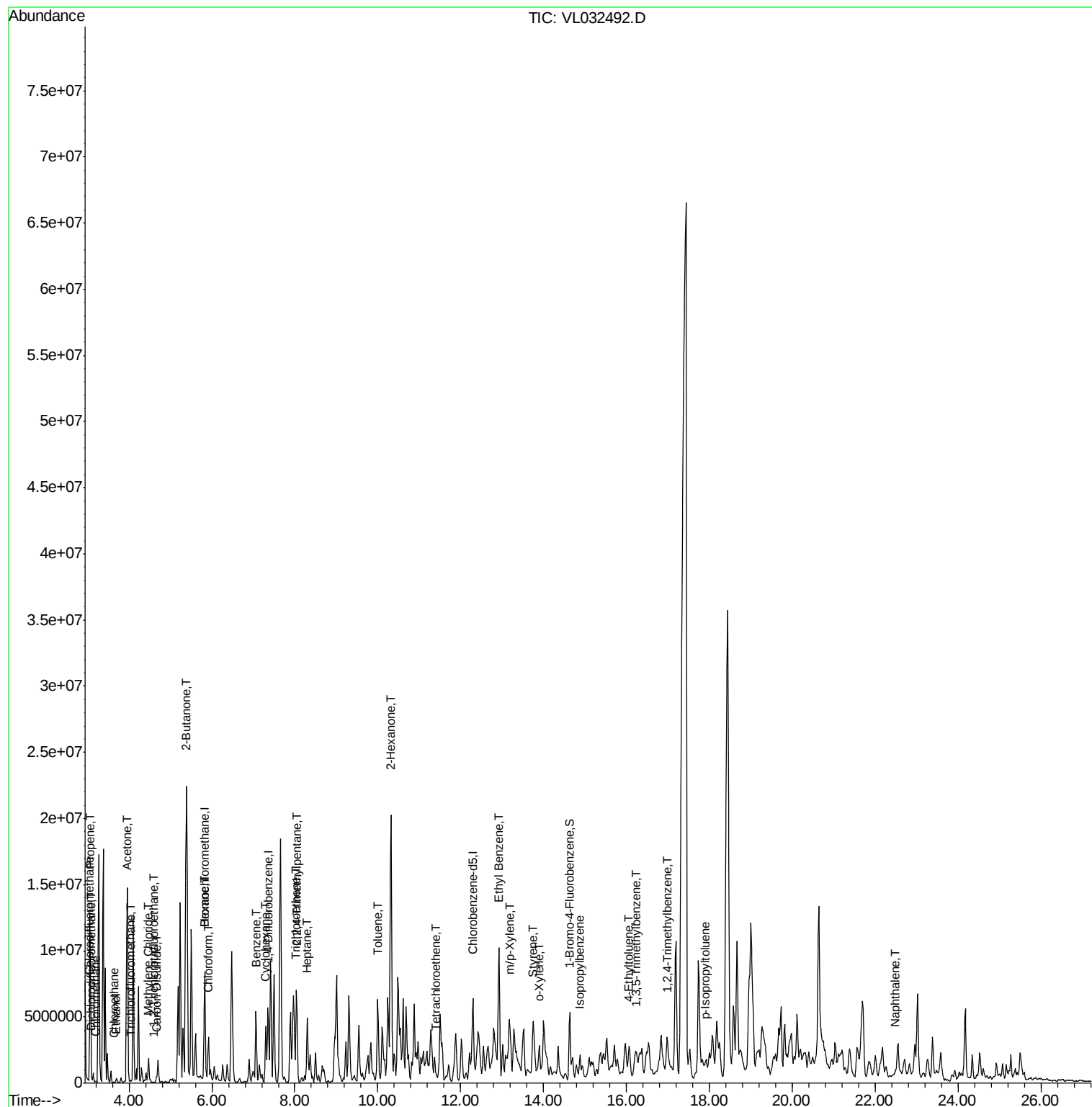
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

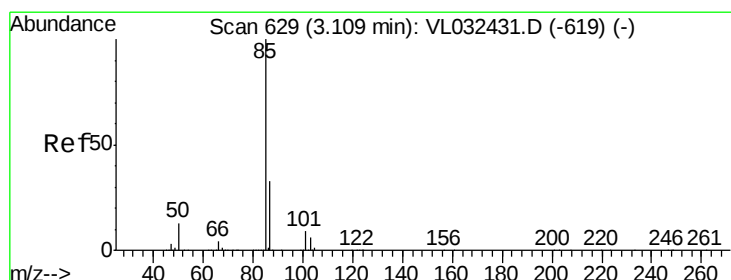
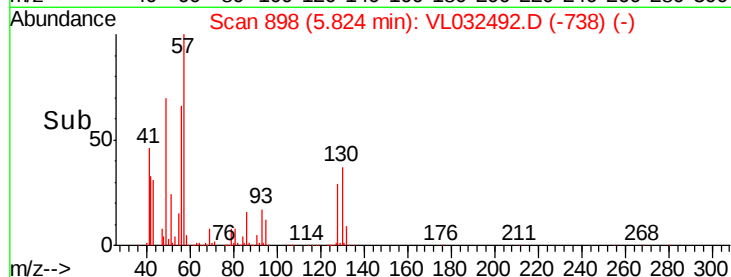
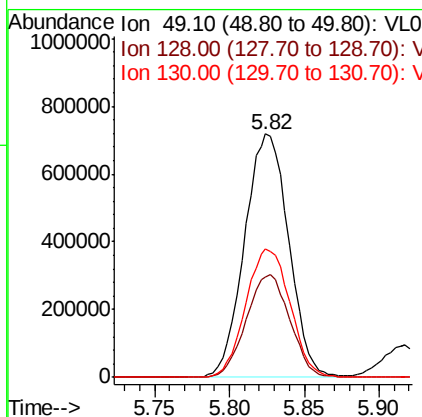
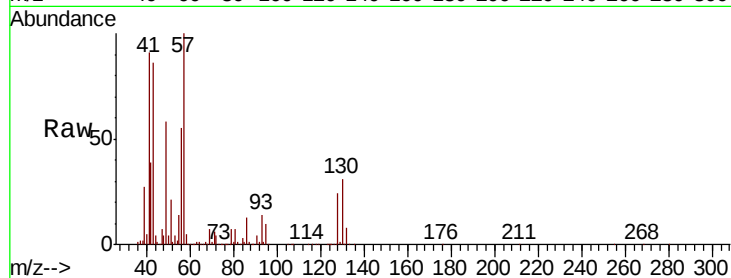
ClientSampleId :

245-BERRY

Tot Ion:	49	Resp:	1469482
Ion	Ratio	Lower	Upper
49	100		
128	41.8	20.7	62.1
130	53.4	26.6	79.7

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.37 ppbv

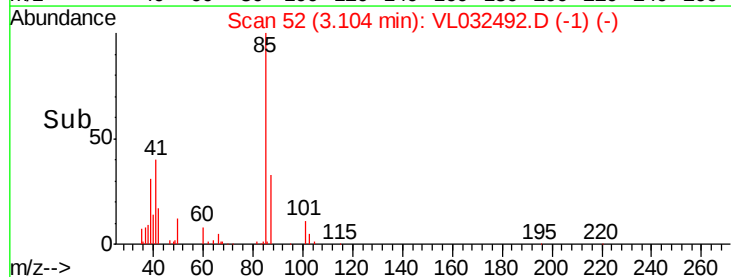
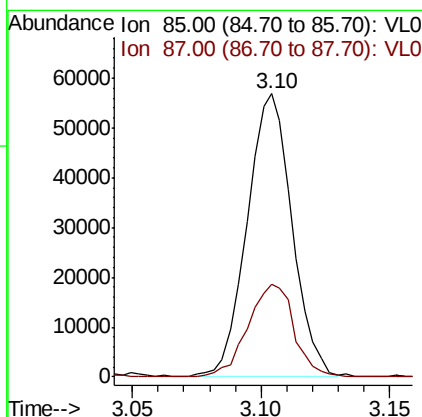
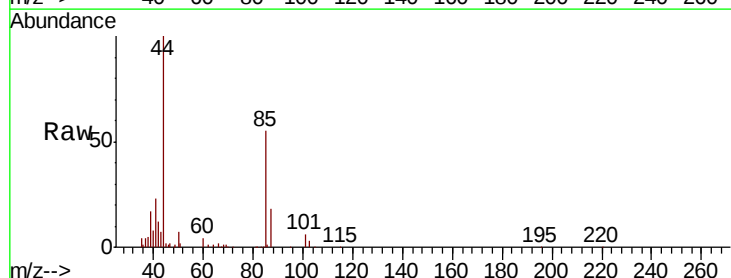
RT: 3.10 min Scan# 52

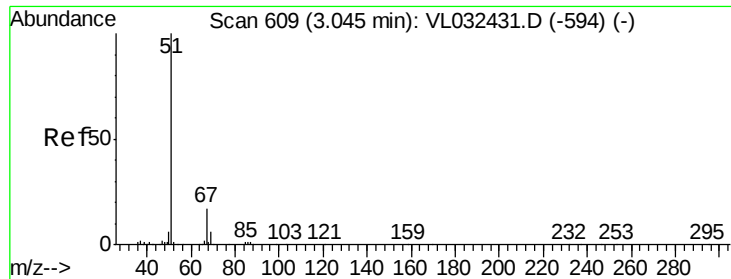
Delta R.T. -0.01 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Tgt Ion:	85	Resp:	69306
Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.2	39.4





#3

Chlorodifluoromethane

Concen: 0.39 ppbv m

RT: 3.04 min Scan# 32

Delta R.T. -0.01 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

ClientSampleId :

245-BERRY

Tot Ion: 51 Resp: 51540

Ion Ratio Lower Upper

51 100

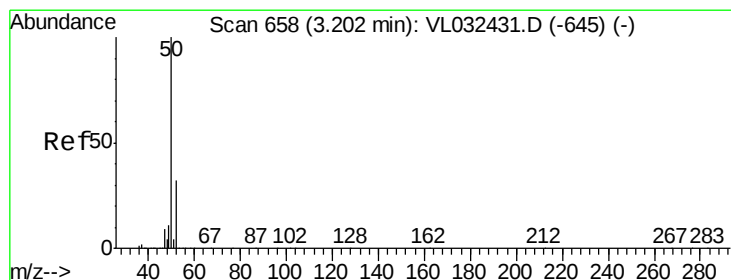
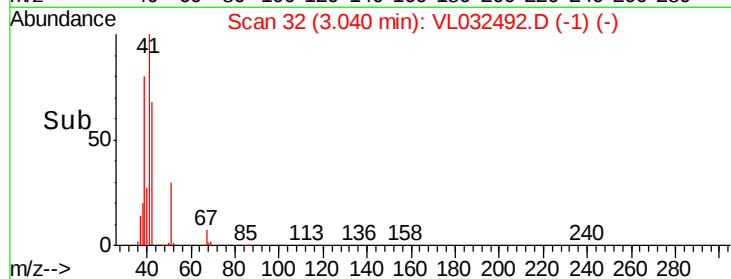
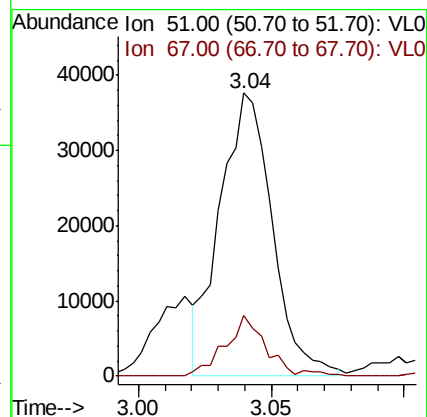
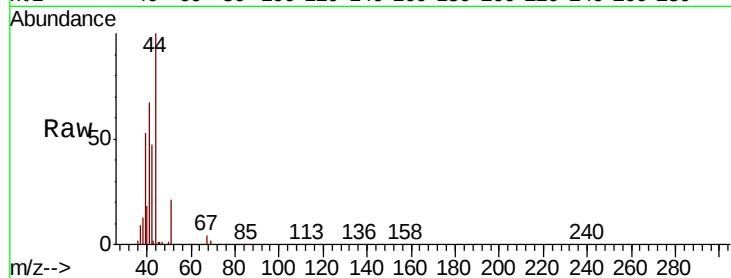
67 16.9 13.8 20.8

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#4

Chloromethane

Concen: 0.91 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL032492.D

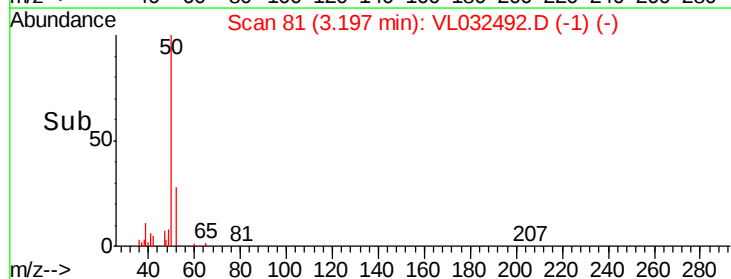
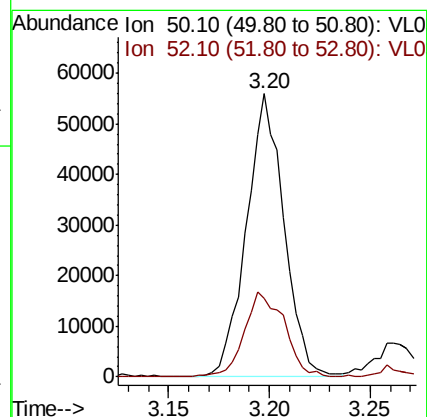
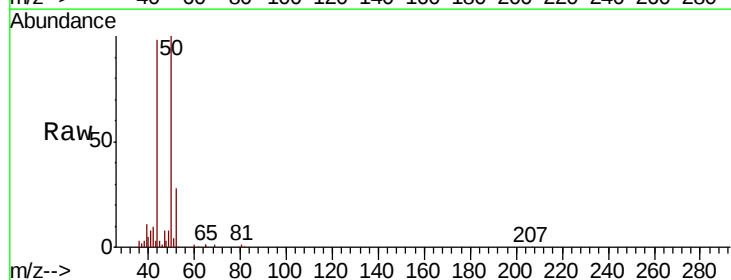
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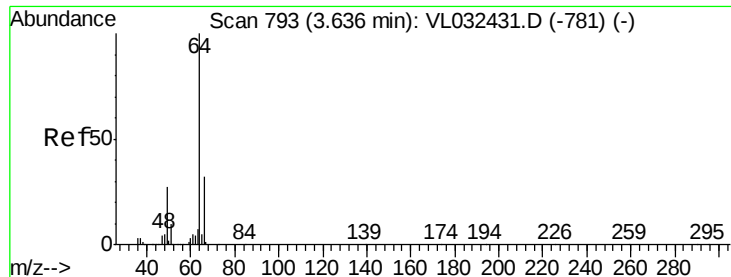
Tgt Ion: 50 Resp: 73303

Ion Ratio Lower Upper

50 100

52 28.0 25.6 38.4





#7

Chloroethane

Concen: 0.33 ppbv

RT: 3.63 min Scan# 217

Delta R.T. -0.00 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

ClientSampleId :

245-BERRY

Tot Ion: 64 Resp: 8948

Ion Ratio Lower Upper

64 100

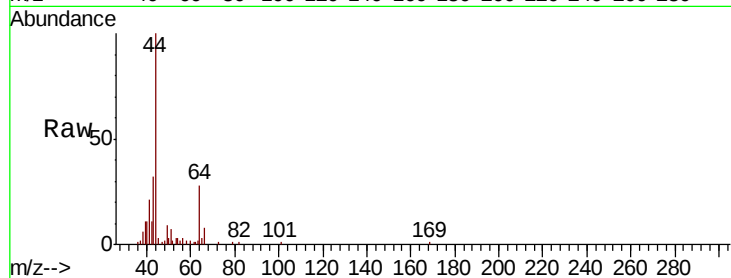
66 30.2 25.8 38.6

Manual Integrations

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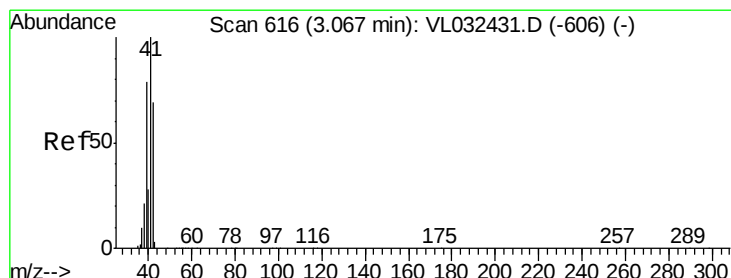
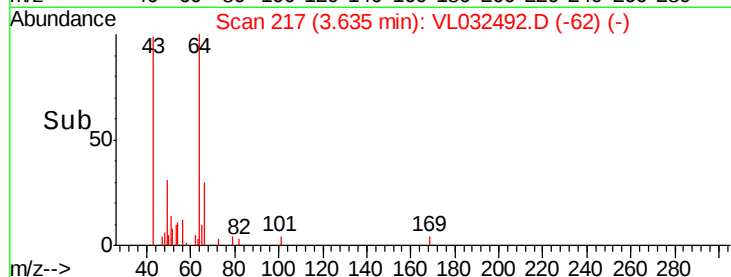
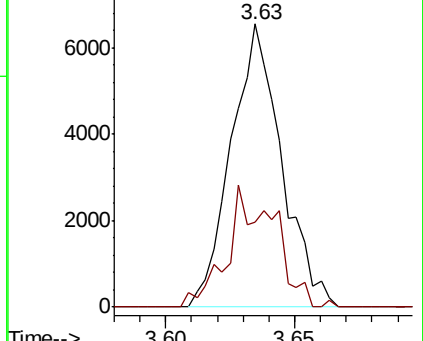
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 106.23 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032492.D

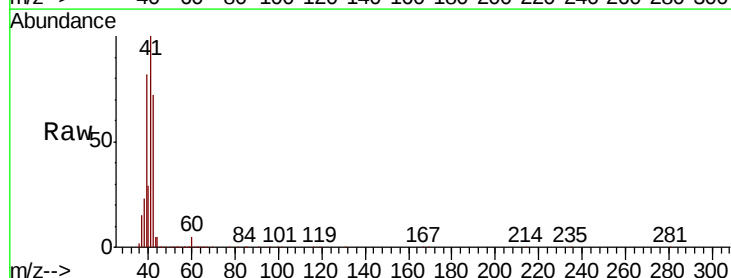
Acq: 11 Sep 2018 00:02

Tgt Ion: 41 Resp: 5700118

Ion Ratio Lower Upper

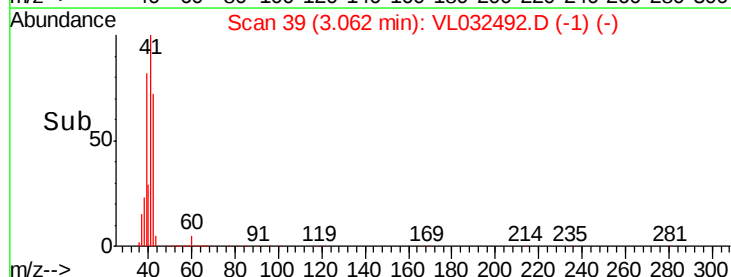
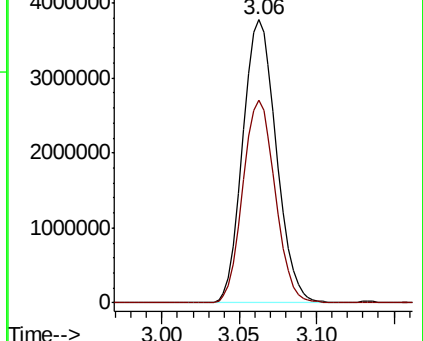
41 100

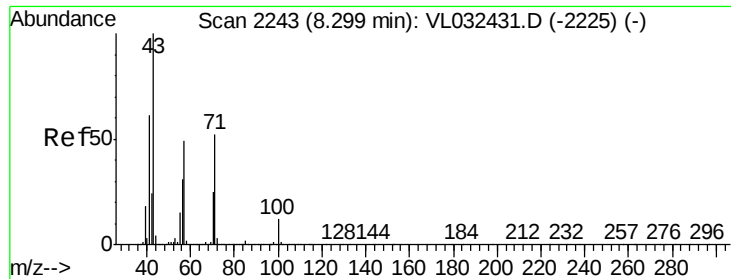
42 69.3 56.6 84.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





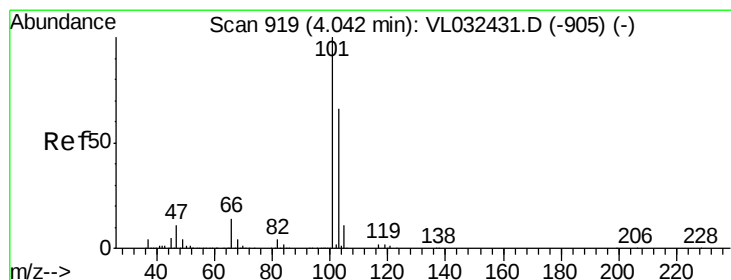
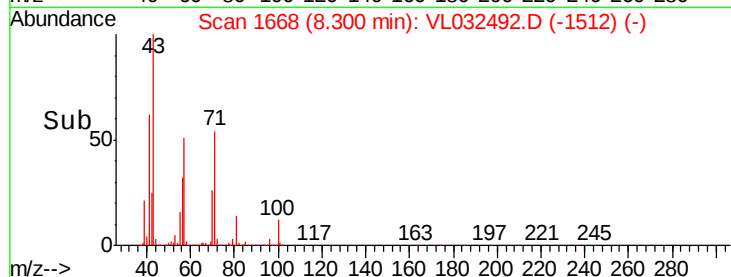
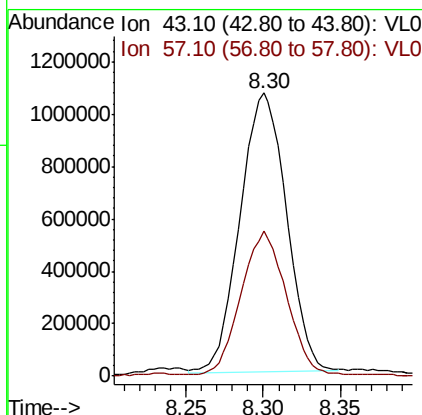
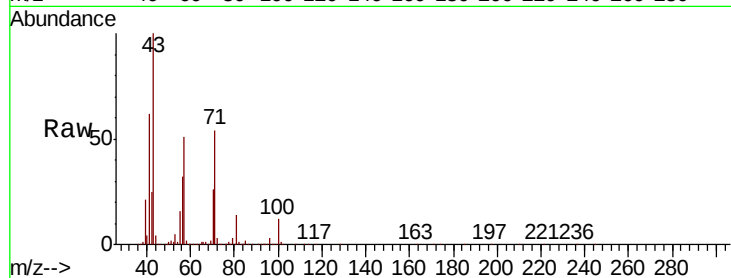
#10
 Heptane
 Concen: 11.49 ppbv
 RT: 8.30 min Scan# 1668
 Delta R.T. 0.00 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRY

Tot Ion: 43 Resp: 2212677
 Ion Ratio Lower Upper
 43 100
 57 51.1 39.6 59.4

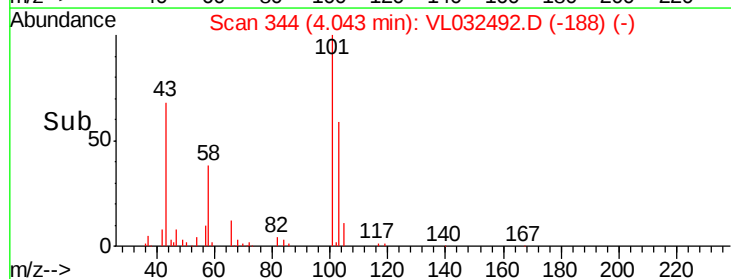
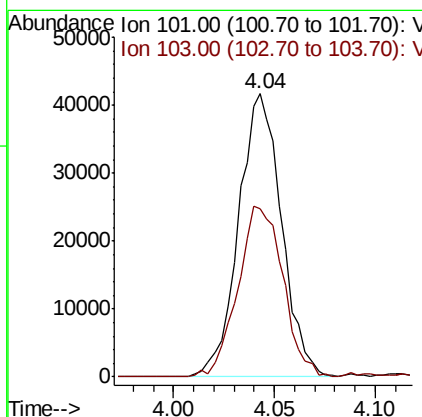
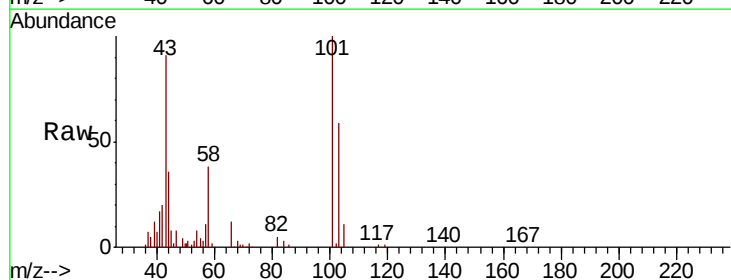
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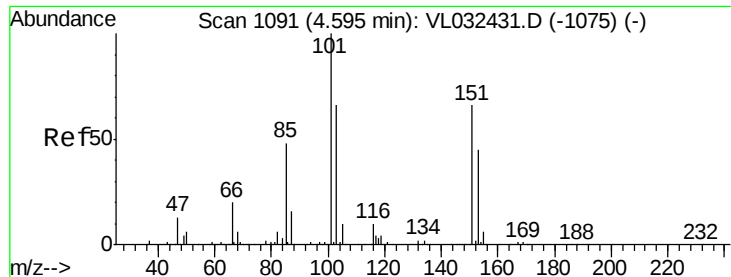
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#11
 Trichlorofluoromethane
 Concen: 0.37 ppbv
 RT: 4.04 min Scan# 344
 Delta R.T. 0.00 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Tgt Ion:101 Resp: 62107
 Ion Ratio Lower Upper
 101 100
 103 59.4 52.8 79.2





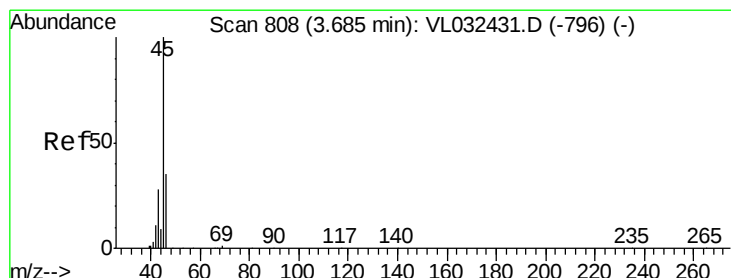
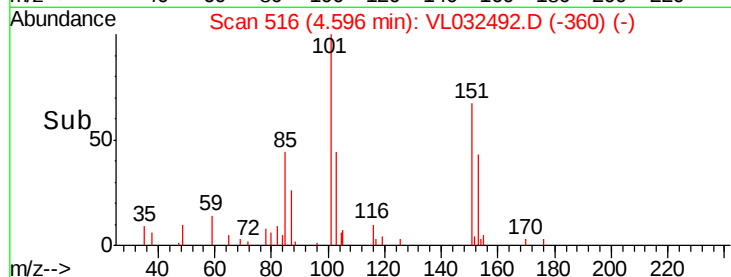
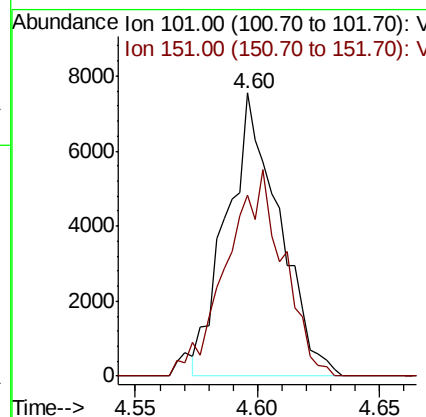
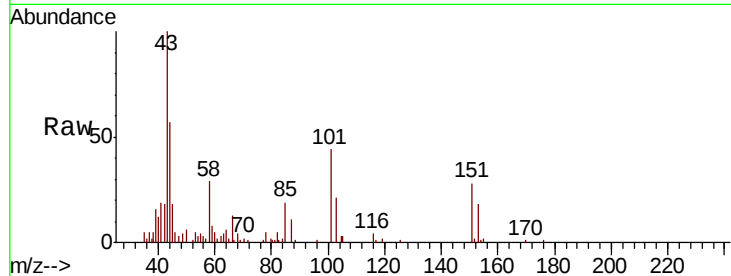
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.10 ppbv
 RT: 4.60 min Scan# 516
 Delta R.T. 0.00 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRY

Tot Ion:101 Resp: 11319
 Ion Ratio Lower Upper
 101 100
 151 78.0 52.6 78.8

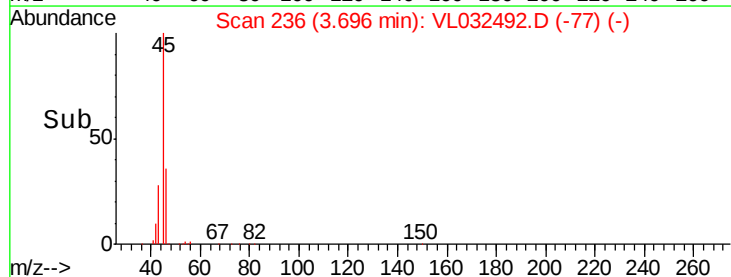
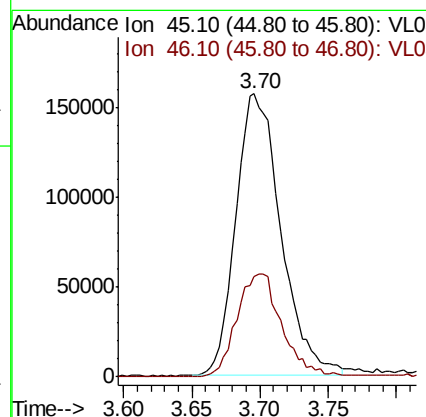
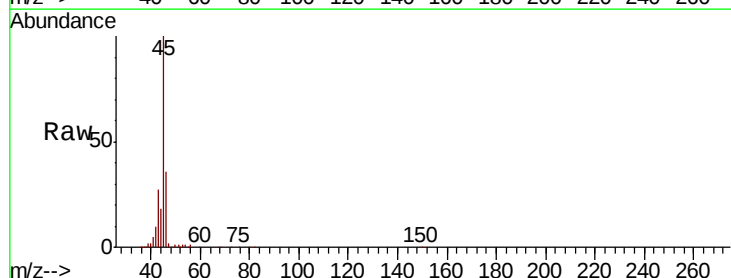
Manual Integrations
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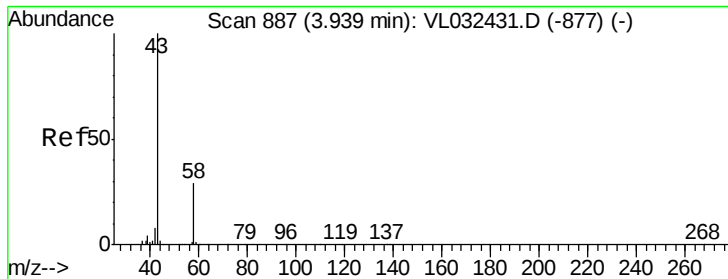
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#13
 Ethanol
 Concen: 21.63 ppbv
 RT: 3.70 min Scan# 236
 Delta R.T. 0.01 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Tgt Ion: 45 Resp: 361798
 Ion Ratio Lower Upper
 45 100
 46 36.8 14.2 56.8





#15

Acetone

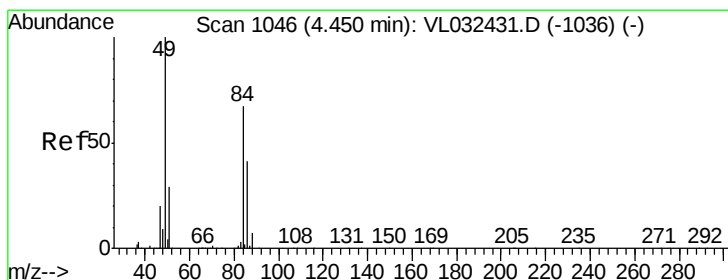
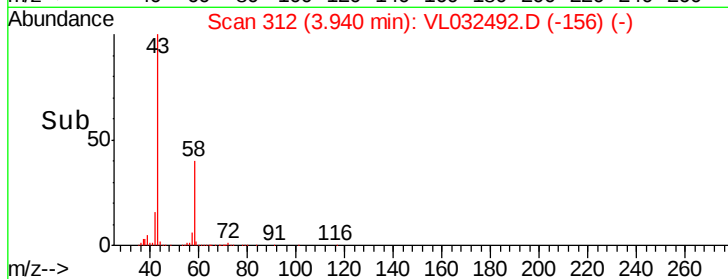
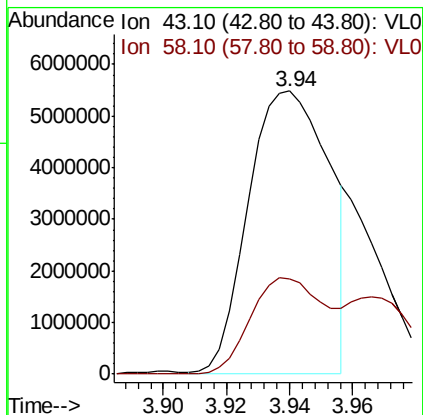
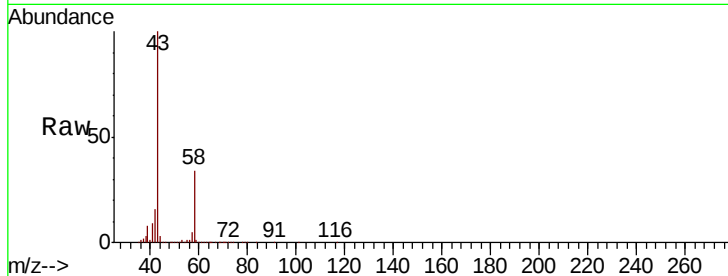
Concen: 74.08 ppbv m
RT: 3.94 min Scan# 312
Delta R.T. 0.00 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

Tot Ion: 43 Resp: 9802966
Ion Ratio Lower Upper
43 100
58 54.3 22.6 33.8#

Manual Integrations
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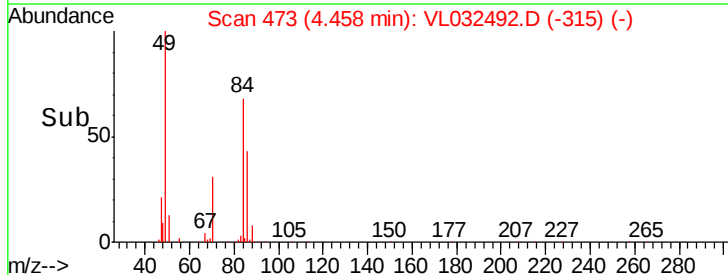
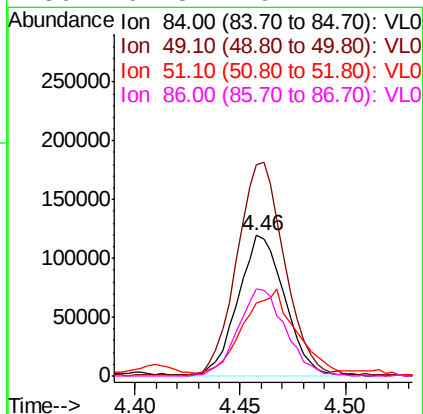
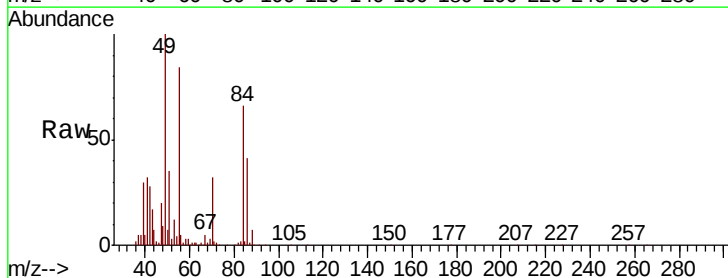


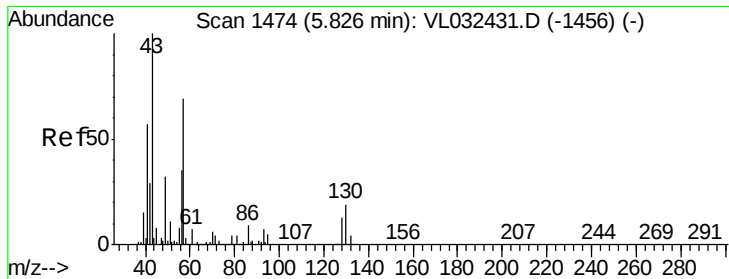
#20

Methylene Chloride

Concen: 3.62 ppbv
RT: 4.46 min Scan# 473
Delta R.T. 0.01 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Tgt Ion: 84 Resp: 182780
Ion Ratio Lower Upper
84 100
49 149.8 119.1 178.7
51 49.7 35.2 52.8
86 62.3 49.4 74.2





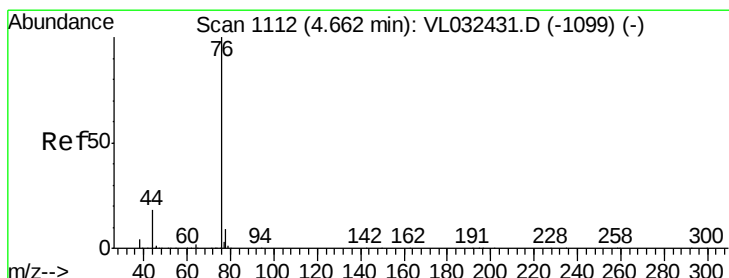
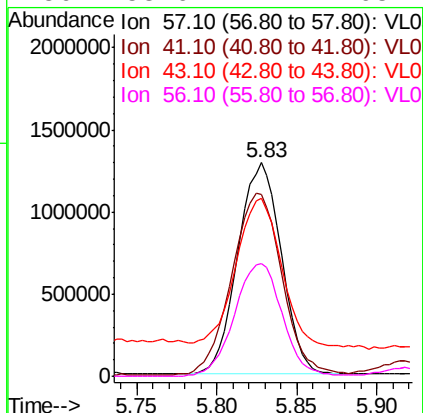
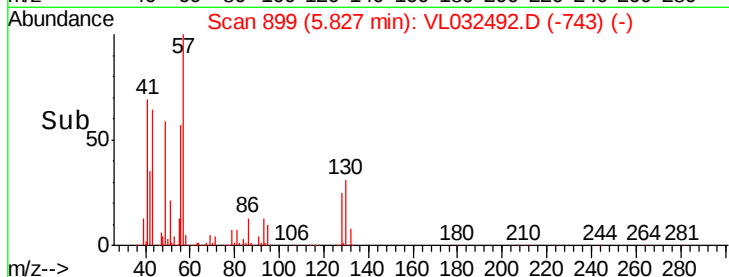
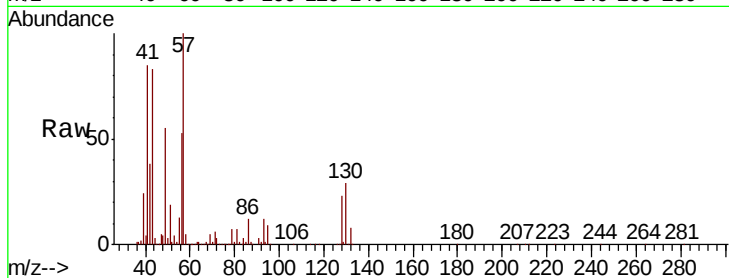
#26
Hexane
Concen: 16.99 ppbv
RT: 5.83 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

Tot Ion	Ratio	Lower	Upper
57	100		
41	100.0	69.0	103.4
43	80.7	172.1	258.1#
56	58.6	42.2	63.2

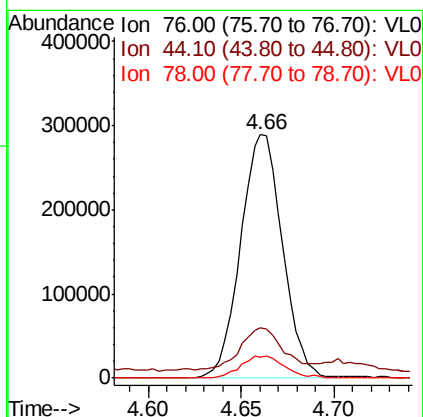
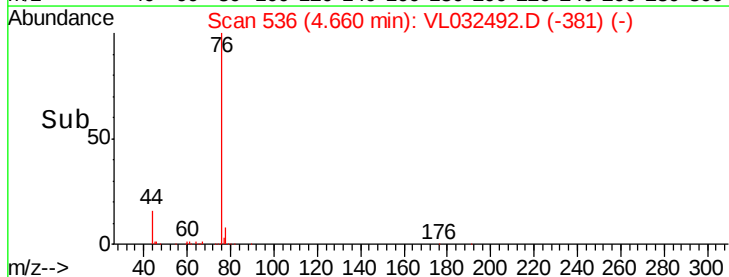
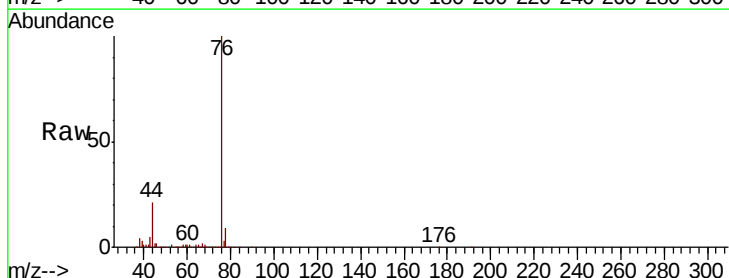
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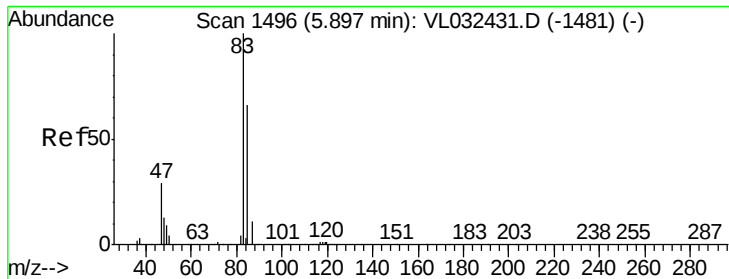
MMDadoda
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#27
Carbon Disulfide
Concen: 3.51 ppbv
RT: 4.66 min Scan# 536
Delta R.T. -0.00 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.8	14.0	21.0
78	9.9	7.5	11.3





#29

Chloroform

Concen: 8.74 ppbv

RT: 5.91 min Scan# 926

Delta R.T. 0.02 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

ClientSampleId :

245-BERRY

Tot Ion: 83 Resp: 1865585

Ion Ratio Lower Upper

83 100

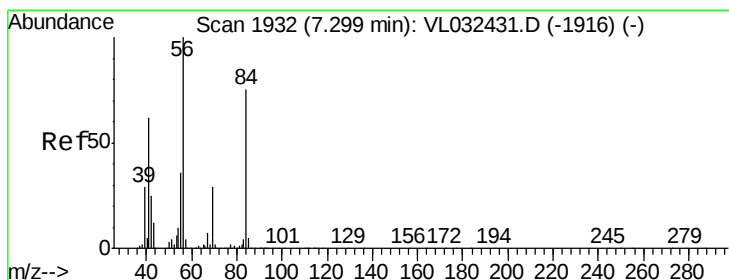
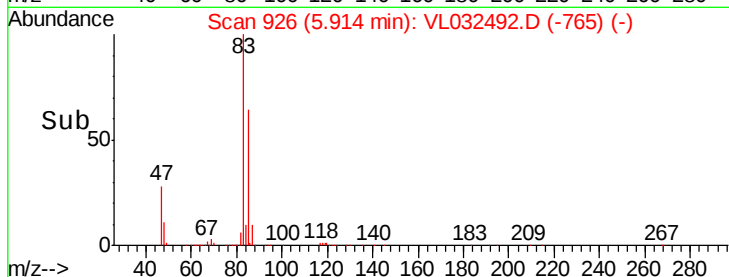
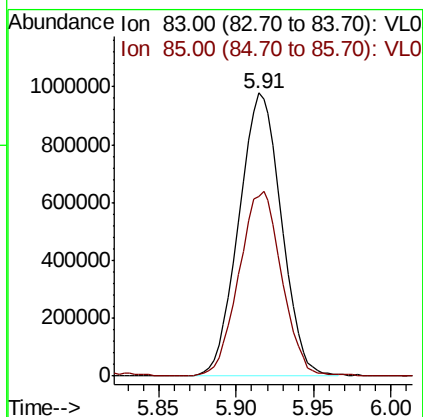
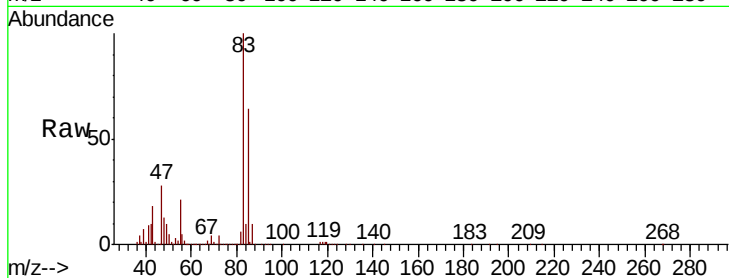
85 63.5 52.5 78.7

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#30

Cyclohexane

Concen: 15.10 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

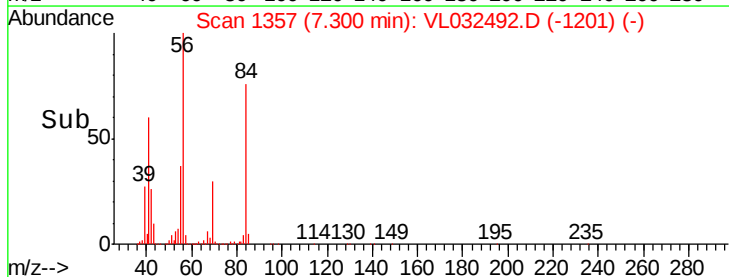
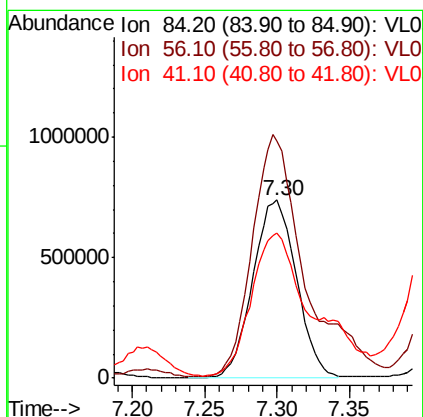
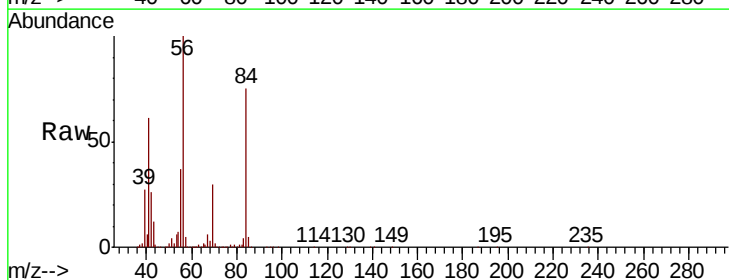
Tgt Ion: 84 Resp: 1547181

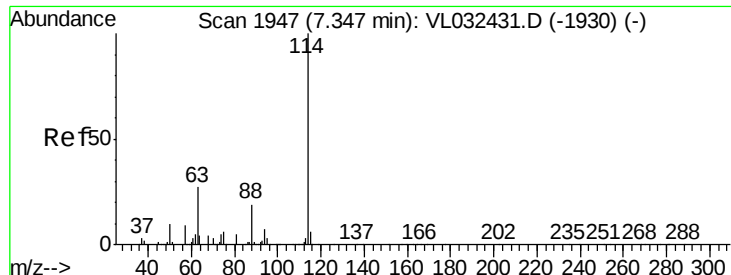
Ion Ratio Lower Upper

84 100

56 163.9 113.5 170.3

41 112.1 68.1 102.1#





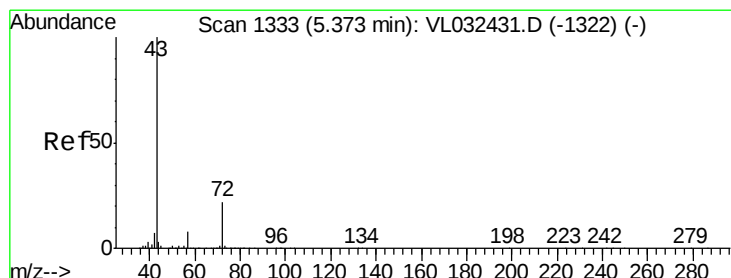
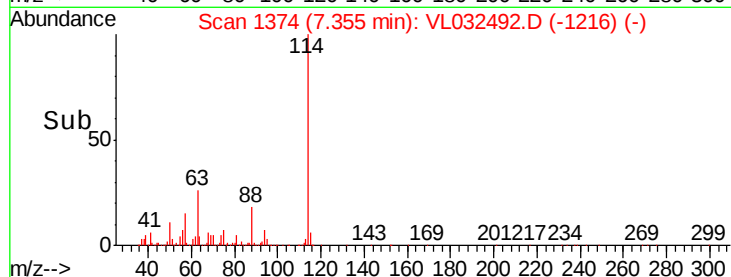
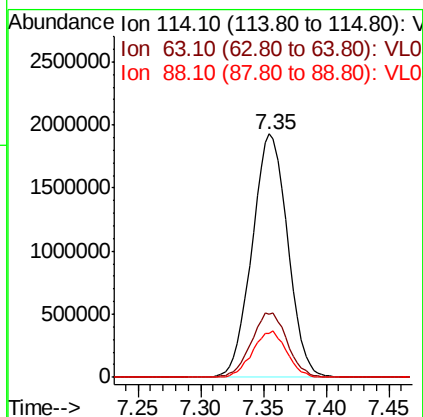
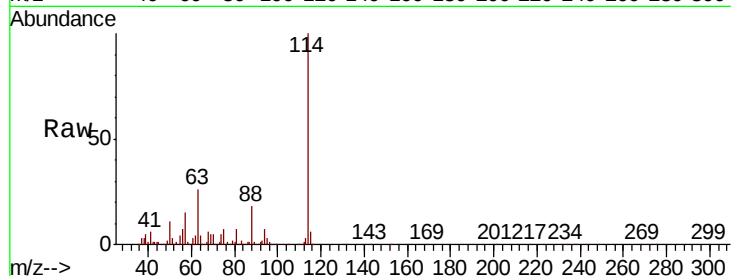
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1374
 Delta R.T. 0.01 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRY

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.4
88	18.5	15.0	22.4

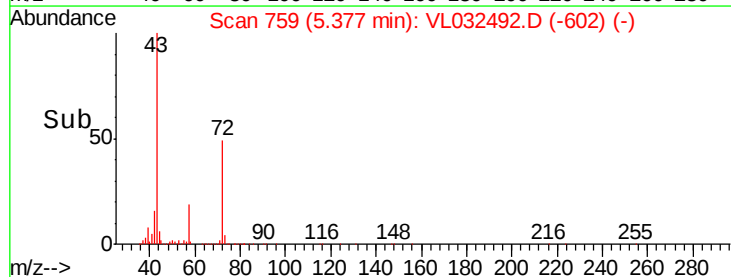
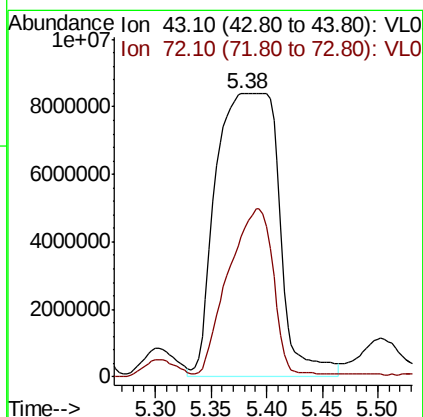
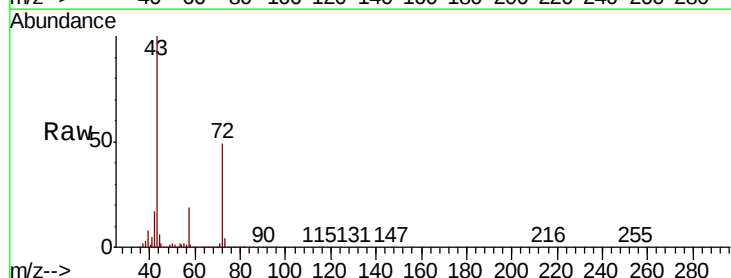
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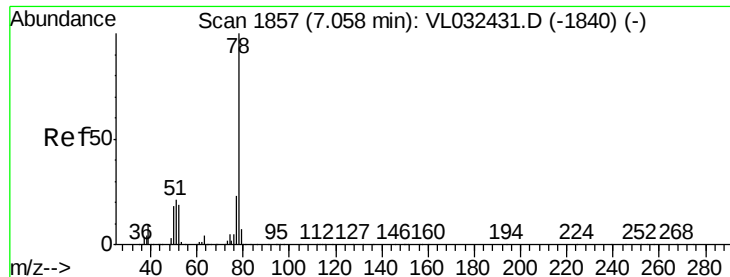
MMDadoda
 9/12/2018 3:59:42 PM



#34
 2-Butanone
 Concen: 130.75 ppbv m
 RT: 5.38 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	42.1	17.8	26.6#





#36

Benzene

Concen: 14.02 ppbv

RT: 7.06 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

ClientSampleId :

245-BERRY

Tot Ion: 78 Resp: 4544830

Ion Ratio Lower Upper

78 100

77 23.5 18.4 27.6

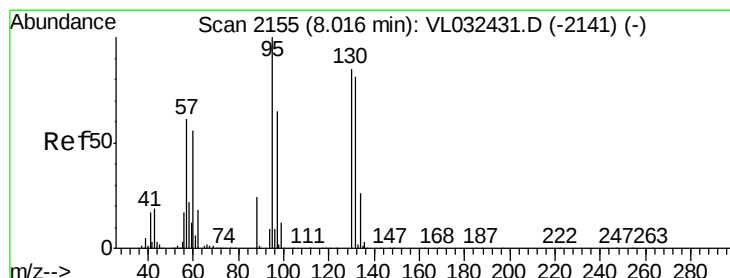
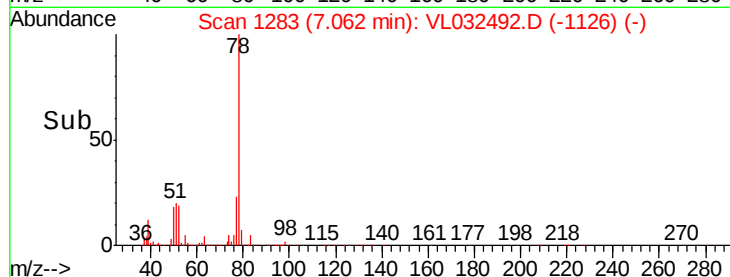
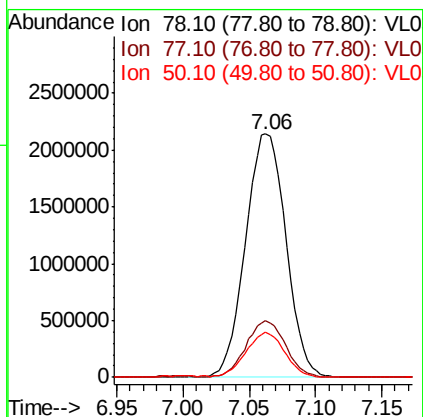
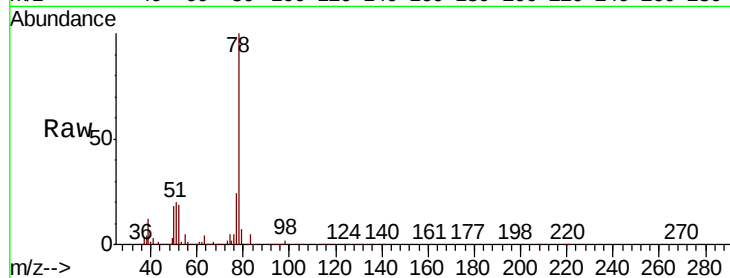
50 18.2 14.4 21.6

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#38

Trichloroethene

Concen: 0.32 ppbv

RT: 8.02 min Scan# 1582

Delta R.T. 0.01 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Tgt Ion: 130 Resp: 39606

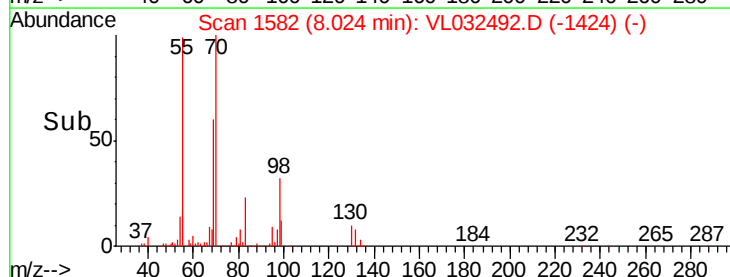
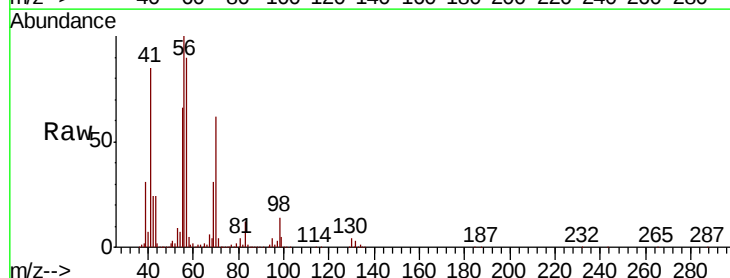
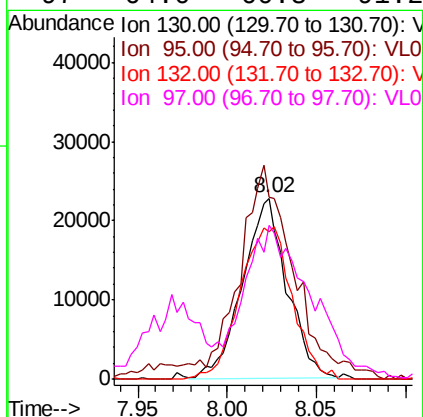
Ion Ratio Lower Upper

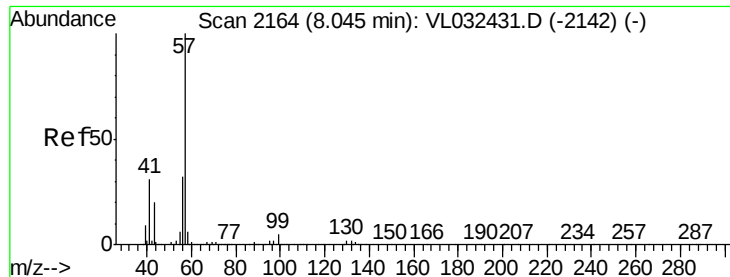
130 100

95 92.7 94.2 141.4#

132 82.0 76.2 114.4

97 64.0 60.8 91.2





#44

2,2,4-Trimethylpentane

Concen: 4.78 ppbv

RT: 8.05 min Scan# 1589

Delta R.T. 0.00 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

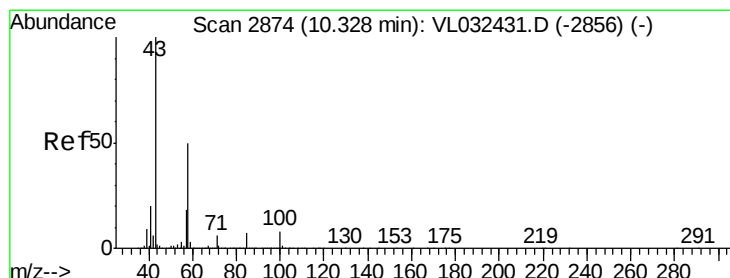
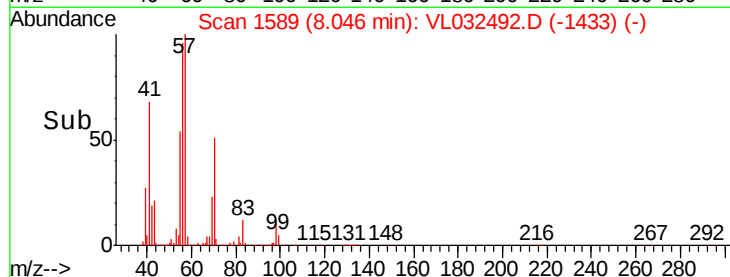
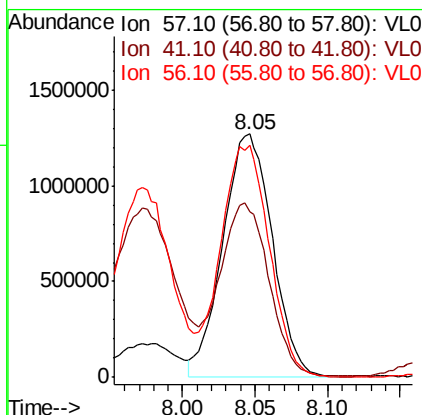
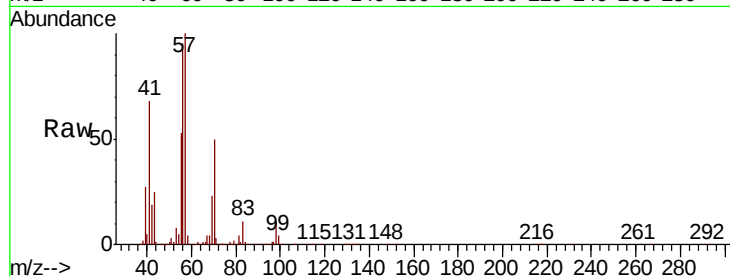
ClientSampleId :

245-BERRY

Tot Ion:	57	Resp:	2994312
Ion	Ratio	Lower	Upper
57	100		
41	73.0	24.4	36.6#
56	95.1	25.7	38.5#

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#51

2-Hexanone

Concen: 81.04 ppbv

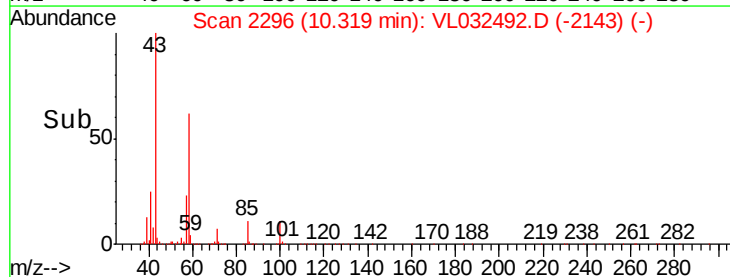
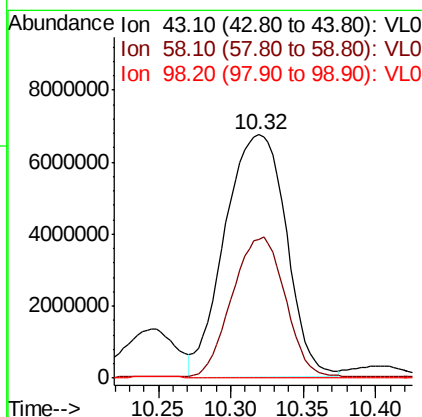
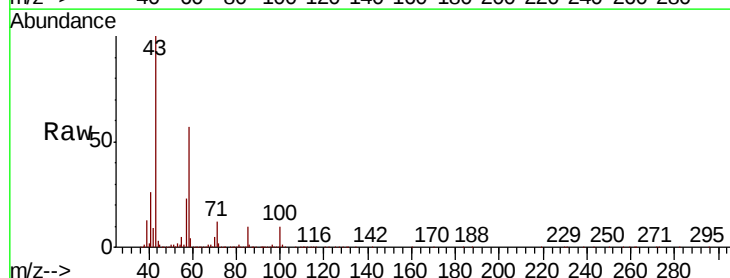
RT: 10.32 min Scan# 2296

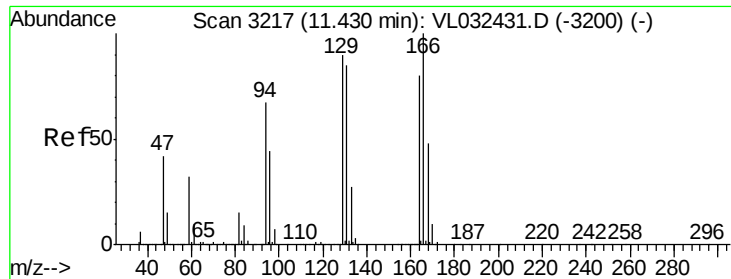
Delta R.T. -0.01 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Tgt Ion:	43	Resp:	19890458
Ion	Ratio	Lower	Upper
43	100		
58	51.4	39.2	58.8
98	0.0	0.4	0.6#





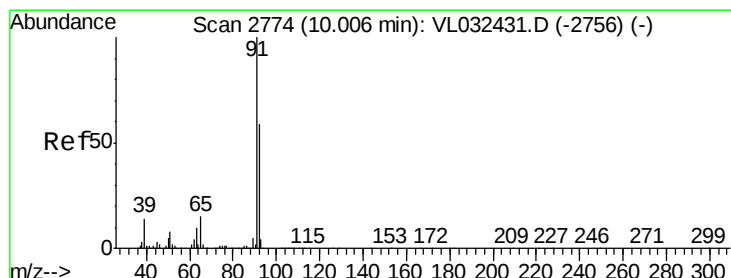
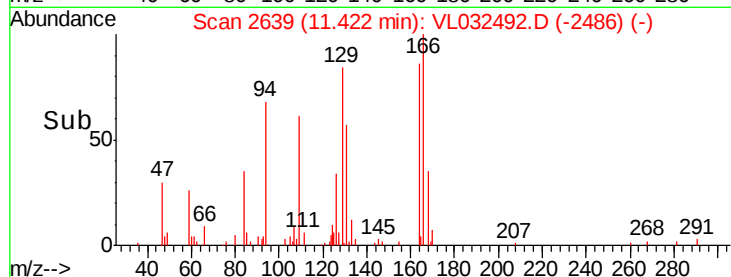
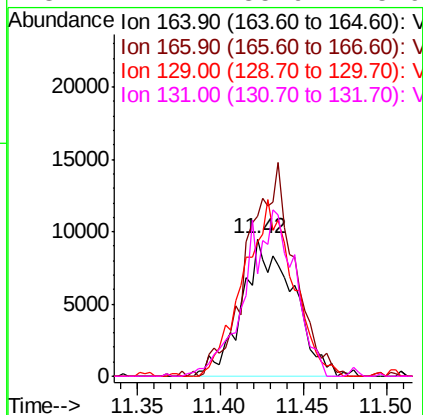
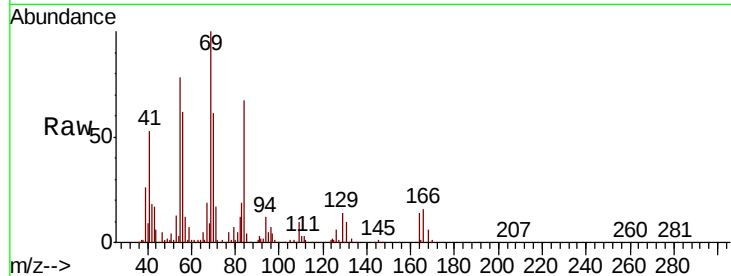
#52
Tetrachloroethene
Concen: 0.20 ppbv m
RT: 11.42 min Scan# 2639
Delta R.T. -0.01 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Instrument :
MSVOA_L
ClientSampled :
245-BERRY

Tot Ion	Ratio	Lower	Upper
164	100		
166	116.5	100.6	150.8
129	98.0	89.9	134.9
131	74.7	85.9	128.9

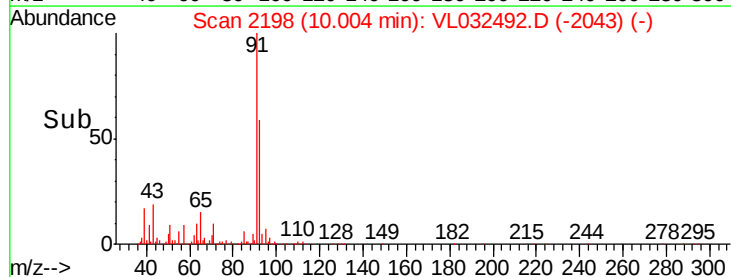
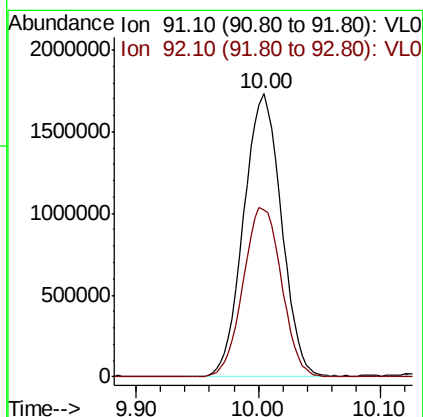
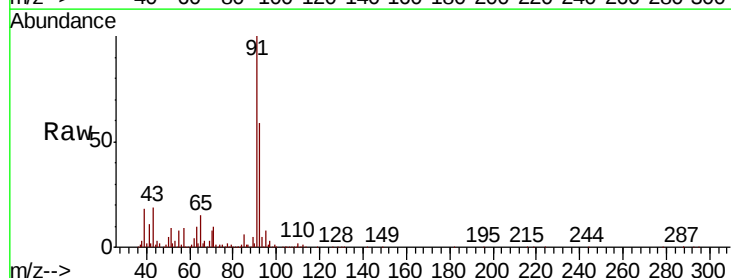
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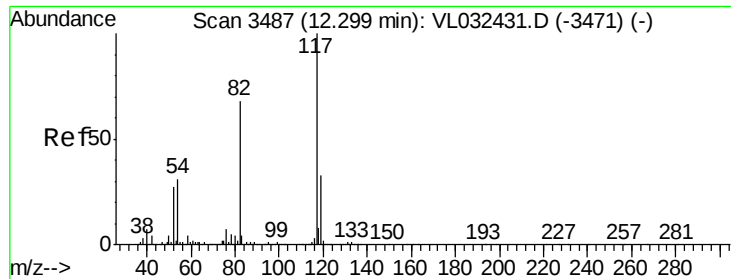
MMDadoda
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#53
Toluene
Concen: 10.90 ppbv
RT: 10.00 min Scan# 2198
Delta R.T. -0.00 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.1	72.1





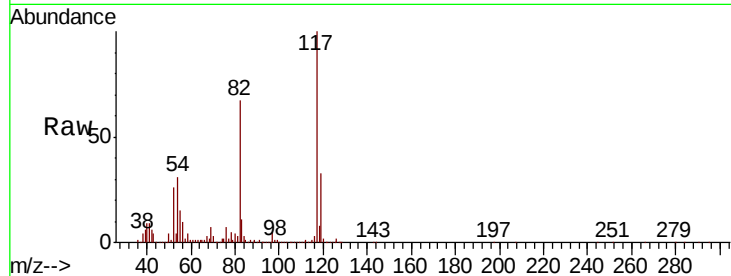
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

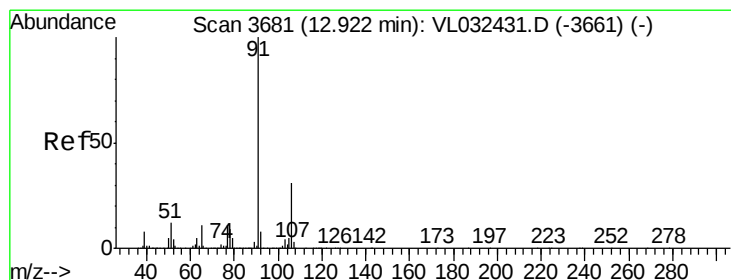
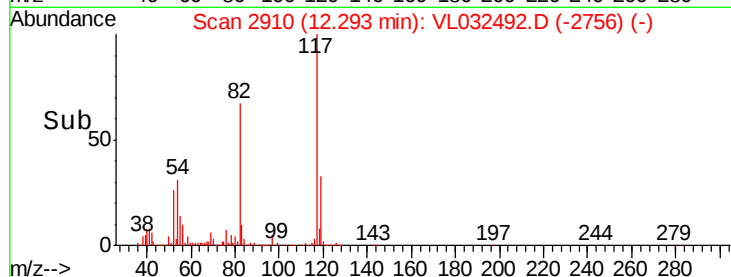
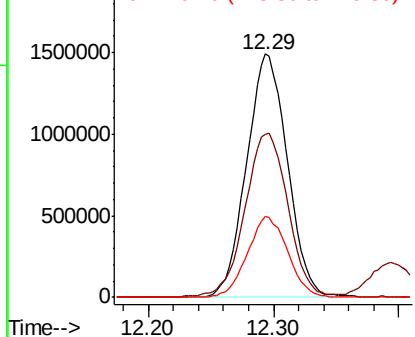
Tot Ion	Ratio	Lower	Upper
117	100		
82	70.5	53.0	79.6
119	33.0	45.9	68.9#

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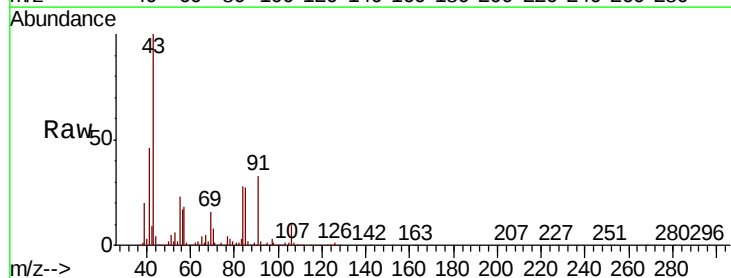


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

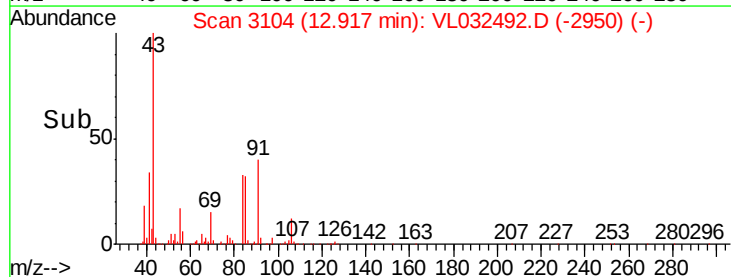
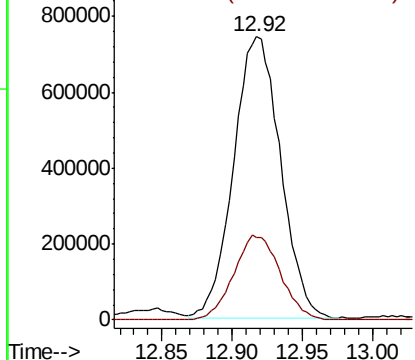


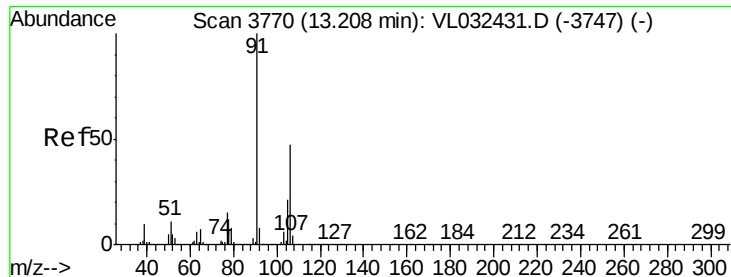
#58
Ethyl Benzene
Concen: 4.27 ppbv
RT: 12.92 min Scan# 3104
Delta R.T. -0.01 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.8	37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





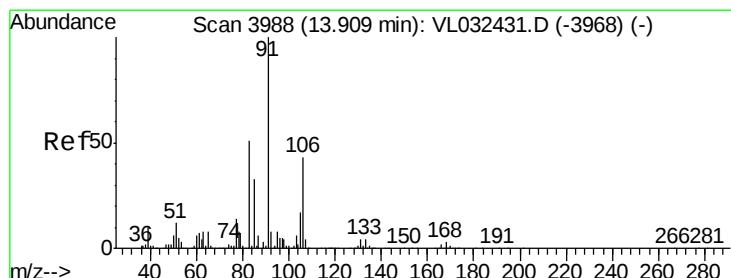
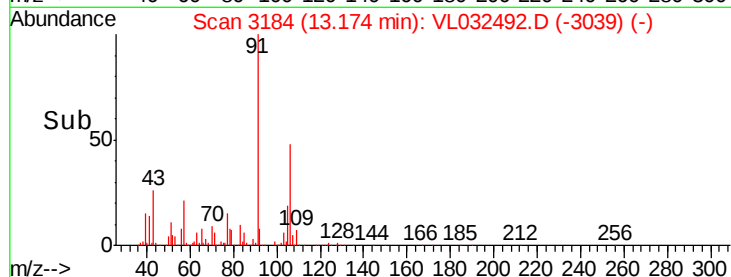
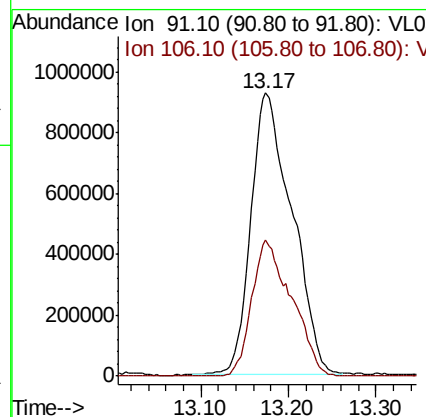
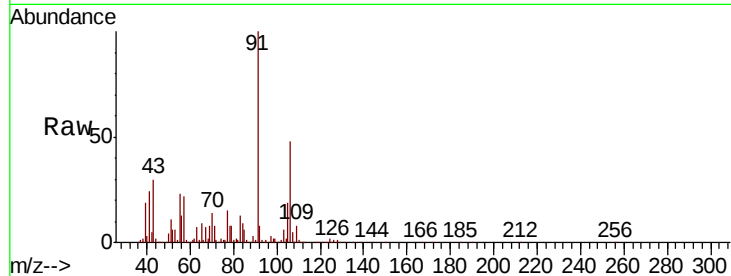
#59
m/p-Xylene
Concen: 8.40 ppbv
RT: 13.17 min Scan# 3184
Delta R.T. -0.03 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Instrument :
MSVOA_L
ClientSampled :
245-BERRY

Tot Ion: 91 Resp: 3022910
Ion Ratio Lower Upper
91 100
106 47.0 36.6 55.0

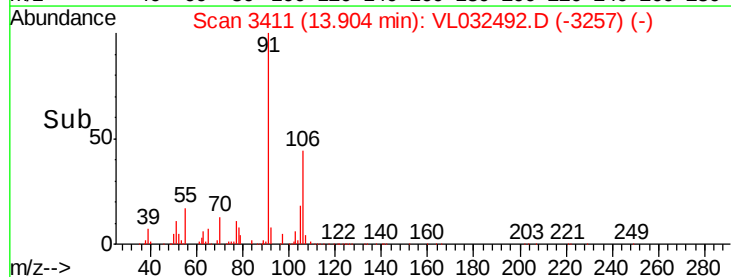
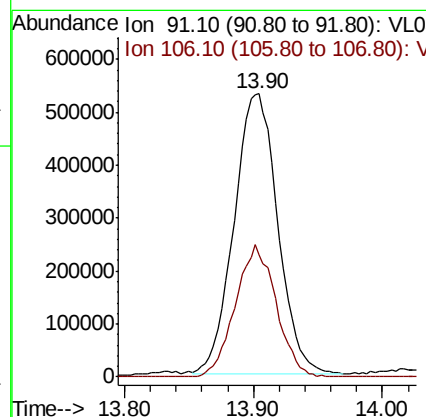
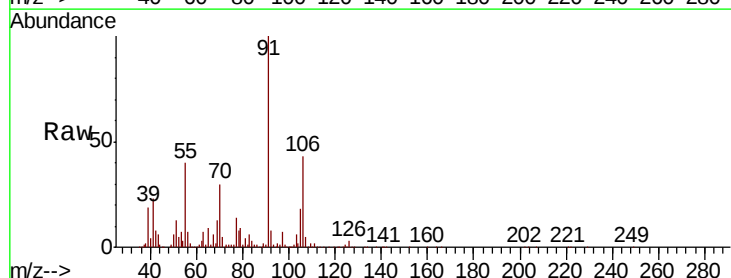
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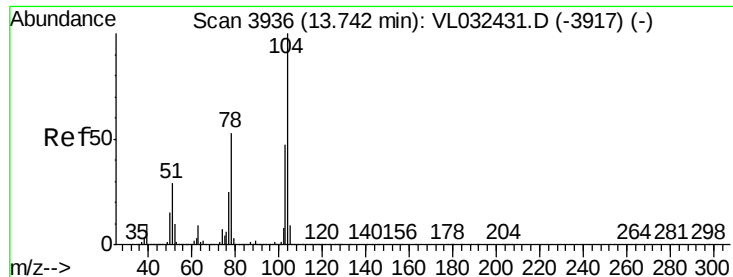
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#60
o-Xylene
Concen: 3.53 ppbv
RT: 13.90 min Scan# 3411
Delta R.T. -0.01 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Tgt Ion: 91 Resp: 1249219
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.7





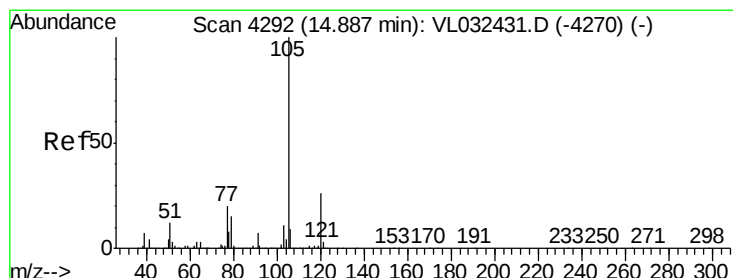
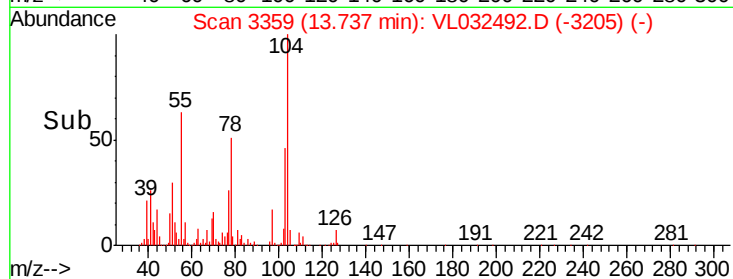
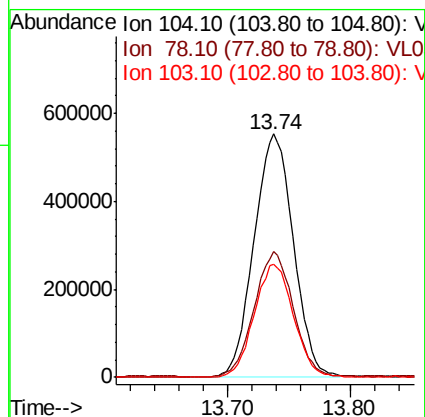
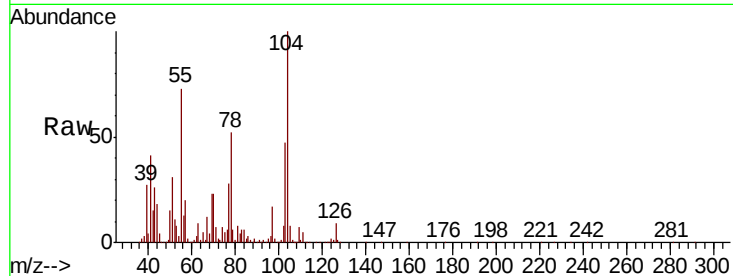
#61
Stvrene
Concen: 5.40 ppbv
RT: 13.74 min Scan# 3359
Delta R.T. -0.01 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.8	41.8	62.8
103	46.2	38.0	57.0

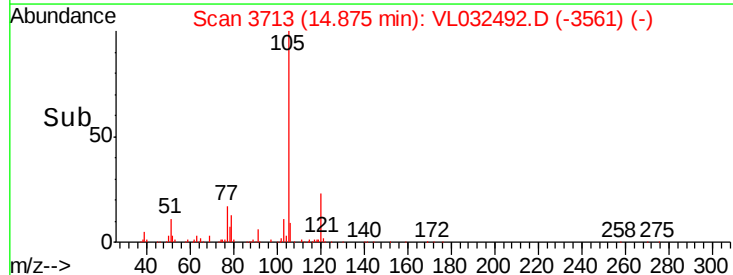
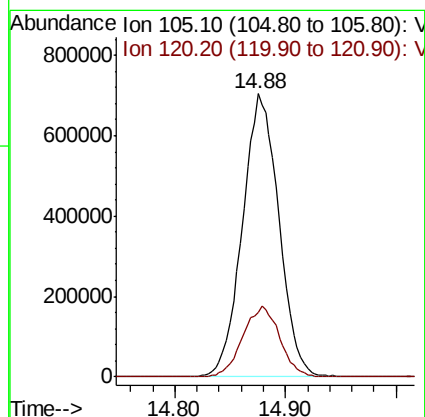
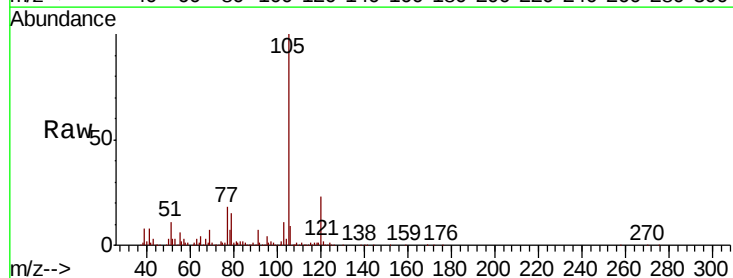
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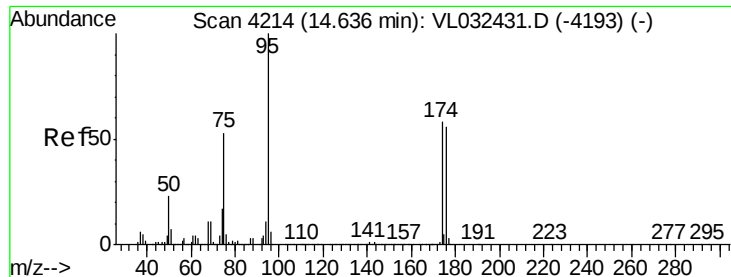
MMDadoda
9/12/2018 3:59:42 PM



#62
Isopropylbenzene
Concen: 3.22 ppbv
RT: 14.88 min Scan# 3713
Delta R.T. -0.01 min
Lab File: VL032492.D
Acq: 11 Sep 2018 00:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.6	31.0





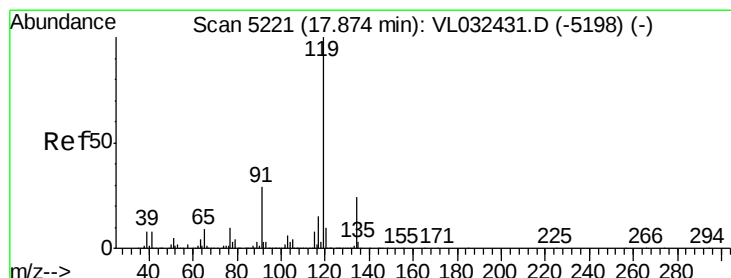
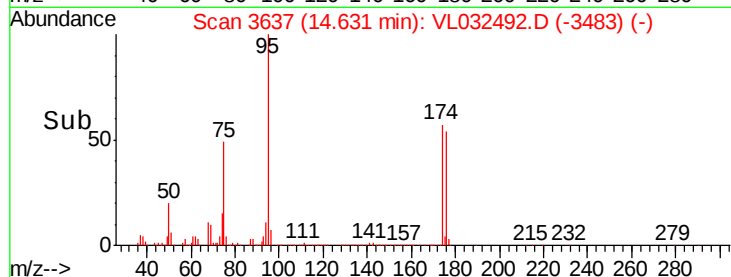
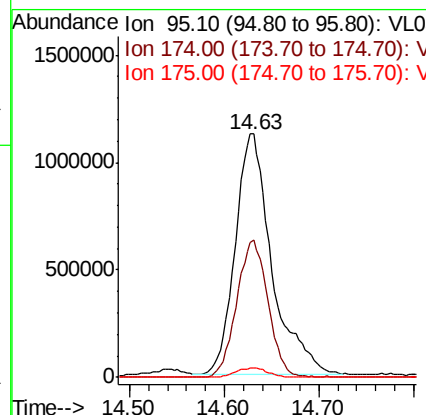
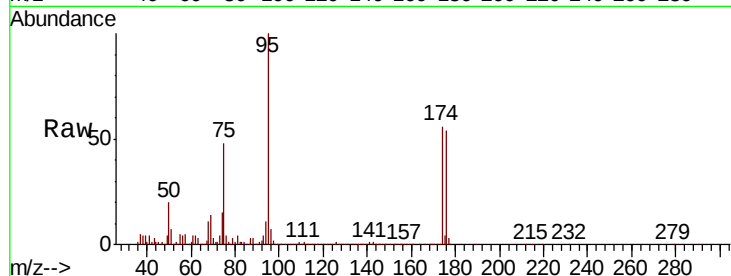
#68
 1-Bromo-4-Fluorobenzene
 Concen: 12.06 ppbv
 RT: 14.63 min Scan# 3637
 Delta R.T. -0.01 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRY

Tot Ion	Ratio	Lower	Upper
95	100		
174	49.1	46.3	69.5
175	3.5	3.4	5.0

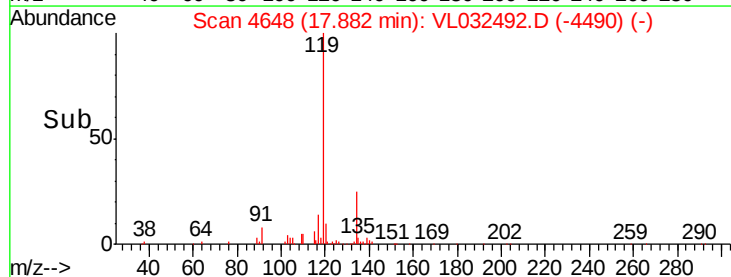
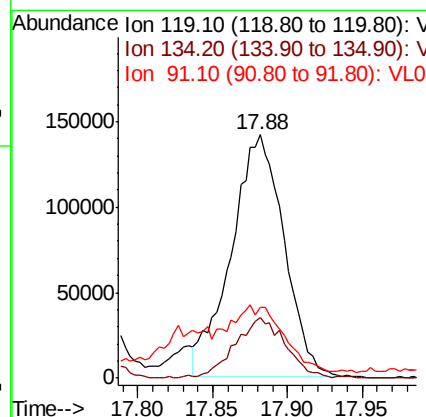
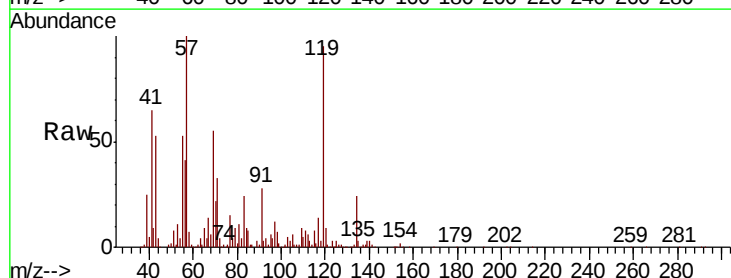
Manual Integrations
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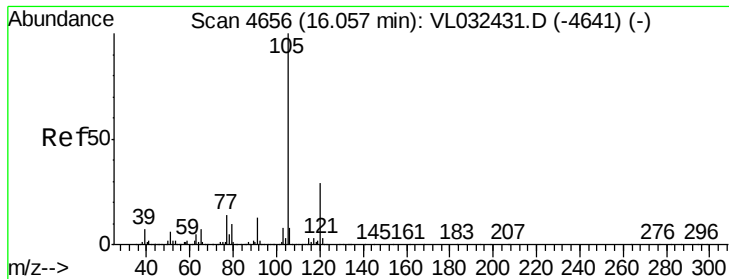
MMDadoda
 9/12/2018 3:59:42 PM



#69
 p-Isopropyltoluene
 Concen: 0.69 ppbv
 RT: 17.88 min Scan# 4648
 Delta R.T. 0.01 min
 Lab File: VL032492.D
 Acq: 11 Sep 2018 00:02

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.0	20.4	30.6
91	46.8	23.4	35.2





#72

4-Ethyltoluene

Concen: 1.40 ppbv

RT: 16.05 min Scan# 4079

Delta R.T. -0.01 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

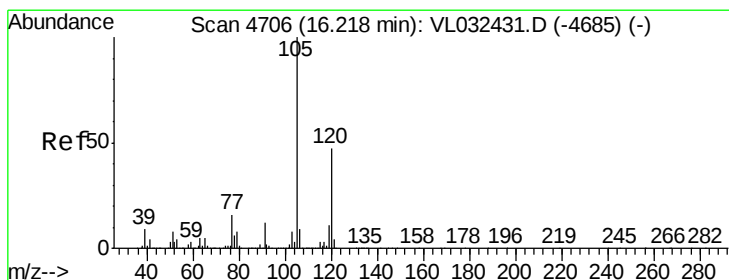
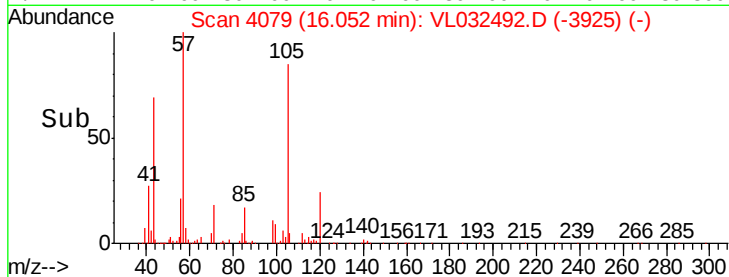
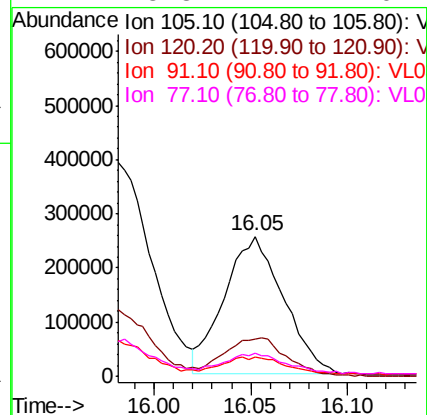
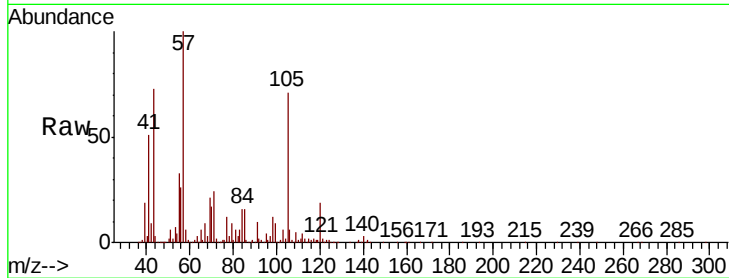
ClientSampleId :

245-BERRY

Tot Ion:	105	Resp:	539141
Ion Ratio	Lower	Upper	
105	100		
120	29.0	23.5	35.3
91	14.0	10.2	15.2
77	15.8	11.1	16.7

Manual Integrations
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9/12/2018 3:59:42 PM



#73

1,3,5-Trimethylbenzene

Concen: 2.68 ppbv

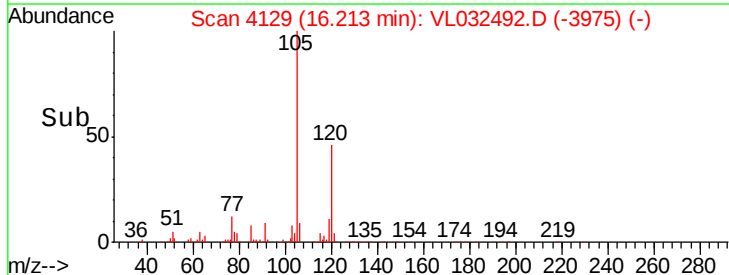
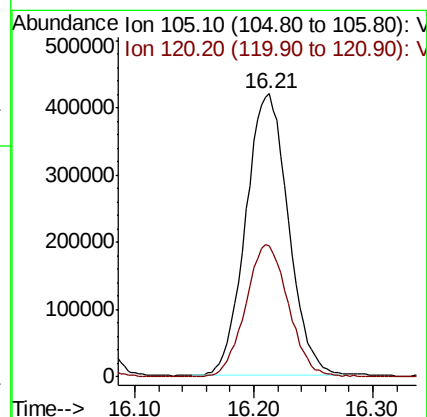
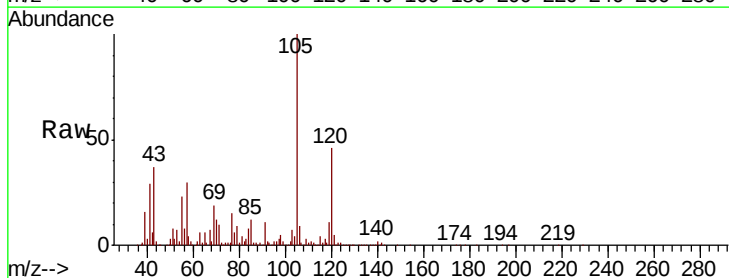
RT: 16.21 min Scan# 4129

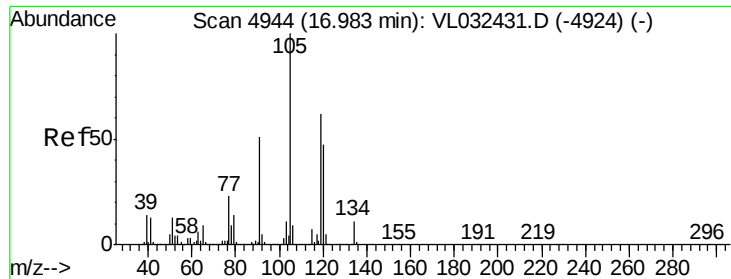
Delta R.T. -0.01 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Tgt Ion:	105	Resp:	1037741
Ion Ratio	Lower	Upper	
105	100		
120	46.4	37.9	56.9





#74

1,2,4-Trimethylbenzene

Concen: 4.40 ppbv m

RT: 16.98 min Scan# 4368

Delta R.T. -0.00 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Instrument :

MSVOA_L

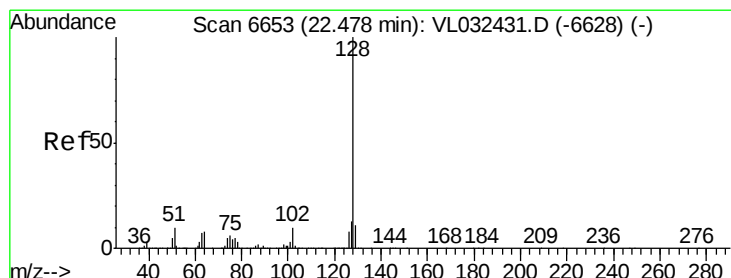
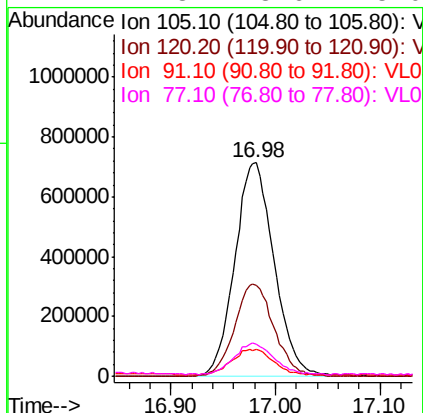
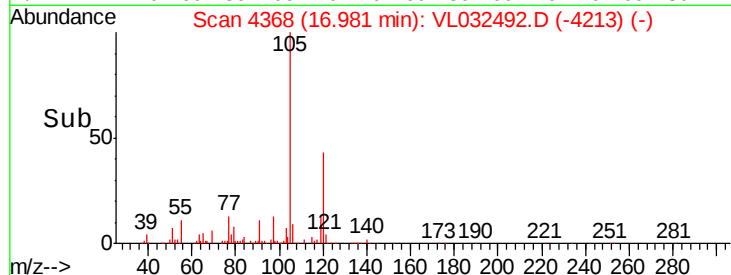
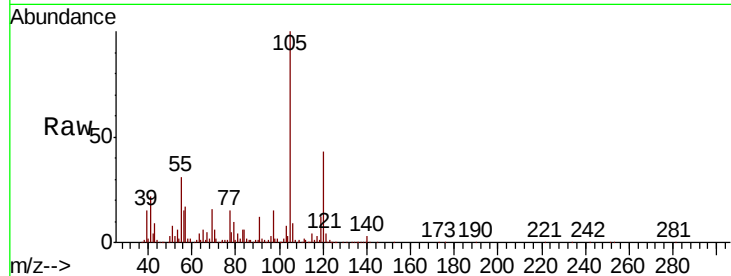
ClientSampleId :

245-BERRY

Tot Ion:	105	Resp:	1858763
Ion Ratio	Lower	Upper	
105	100		
120	42.8	37.8	56.8
91	12.4	41.4	62.0#
77	14.8	18.6	28.0#

Manual Integrations
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9/12/2018 3:59:42 PM



#79

Naphthalene

Concen: 0.47 ppbv

RT: 22.48 min Scan# 6077

Delta R.T. -0.00 min

Lab File: VL032492.D

Acq: 11 Sep 2018 00:02

Tgt Ion:	128	Resp:	161594
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.2	15.2
129	11.8	8.5	12.7

