

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032498.D
 Acq On : 11 Sep 2018 4:00
 Operator : SY/AP
 Sample : 4820-07
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

Quant Time: Sep 11 05:31:32 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 21:33:46 2018
 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

					Qvalue
2) Dichlorodifluoromethane	3.10	85	34510	0.196	ppbv 94
3) Chlorodifluoromethane	3.04	51	75200	0.605	ppbv # 77
4) Chloromethane	3.20	50	170911	2.269	ppbv 96
7) Chloroethane	3.63	64	16823	0.654	ppbv # 77
9) Propene	3.06	41	10317501	205.620	ppbv 95
10) Heptane	8.30	43	378812	2.104	ppbv 98
11) Trichlorofluoromethane	4.04	101	113730	0.718	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.60	101	5125	0.048	ppbv # 28
13) Ethanol	3.74	45	2094608	133.918	ppbv 98
15) Acetone	3.96	43	18878416	152.557	ppbv # 13
16) 1,3-Butadiene	3.42	39	681504	11.704	ppbv # 1
17) tert-Butyl alcohol	4.45	59	1405060	73.782	ppbv # 100
19) Isopropyl Alcohol	4.13	45	104046	1.282	ppbv # 93
20) Methylene Chloride	4.48	84	165800	3.514	ppbv 96
21) Allyl Chloride	4.45	41	372487	4.532	ppbv # 27
23) Vinyl Acetate	5.23	43	494524	2.411	ppbv # 67
25) Ethyl Acetate	5.83	43	355885	1.218	ppbv # 76
26) Hexane	5.82	57	722600	5.522	ppbv # 9
27) Carbon Disulfide	4.66	76	185864	1.539	ppbv # 44
28) Methyl tert-Butyl Ether	5.32	73	96813	0.603	ppbv # 1
29) Chloroform	5.94	83	1795851	9.001	ppbv 97
30) Cyclohexane	7.36	84	4001	0.042	ppbv # 1
34) 2-Butanone	5.39	43	4085808	18.777	ppbv # 1
36) Benzene	7.07	78	732545	2.628	ppbv 98
37) 1,2-Dichloroethane	6.48	62	5174	0.030	ppbv # 81
38) Trichloroethene	8.03	130	75003	0.708	ppbv 95
39) 1,2-Dichloropropane	7.99	63	12074	0.101	ppbv # 1
40) 1,4-Dioxane	8.04	88	1223	0.034	ppbv # 1
41) Tetrahydrofuran	6.20	42	6074	0.051	ppbv # 1
42) Bromodichloromethane	8.00	83	275863	1.171	ppbv # 76
43) Methyl Methacrylate	8.24	69	215850	1.825	ppbv # 63
44) 2,2,4-Trimethylpentane	7.99	57	415746	0.771	ppbv # 1
48) Dibromochloromethane	10.53	129	48081	0.274	ppbv 99
50) 4-Methyl-2-Pentanone	8.94	43	57888	0.177	ppbv # 70
51) 2-Hexanone	10.34	43	27772823	131.543	ppbv # 83
52) Tetrachloroethene	11.44	164	38611	0.447	ppbv 96
53) Toluene	10.01	91	977884	3.356	ppbv 99
58) Ethyl Benzene	12.92	91	472612	1.256	ppbv 96
59) m/p-Xylene	13.18	91	1750674	5.218	ppbv 97
60) o-Xylene	13.90	91	849280	2.577	ppbv 100
61) Styrene	13.74	104	970781	4.550	ppbv 98

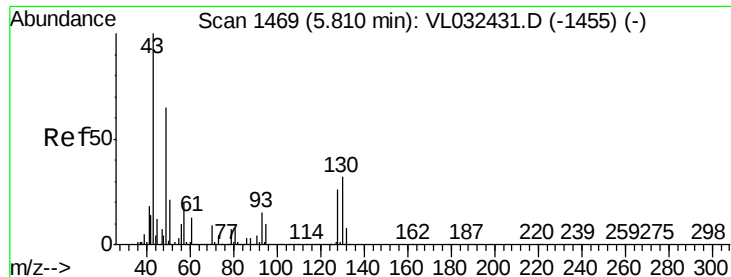
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032498.D
 Acq On : 11 Sep 2018 4:00
 Operator : SY/AP
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 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.88	105	963184	2.079	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.89	83	38516	0.131	ppbv #	39
64) n-propylbenzene	15.78	120	17485	0.144	ppbv #	1
65) tert-Butylbenzene	16.97	119	45220	0.113	ppbv #	1
67) sec-Butylbenzene	17.55	105	18569	0.031	ppbv #	81
69) p-Isopropyltoluene	17.88	119	264870	0.569	ppbv #	87
70) n-Butylbenzene	18.79	91	50806	0.096	ppbv #	34
72) 4-Ethyltoluene	16.06	105	308101	0.856	ppbv	97
73) 1,3,5-Trimethylbenzene	16.21	105	258063	0.716	ppbv	92
74) 1,2,4-Trimethylbenzene	16.98	105	985957	2.502	ppbv #	68
76) 1,4-Dichlorobenzene	17.36	146	6938	0.032	ppbv #	44
79) Naphthalene	22.47	128	144566	0.451	ppbv	97
80) Naphthalene,2-methyl-	25.15	142	14915	0.175	ppbv #	64

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



#1

Bromochloromethane

Concen: 10.000 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

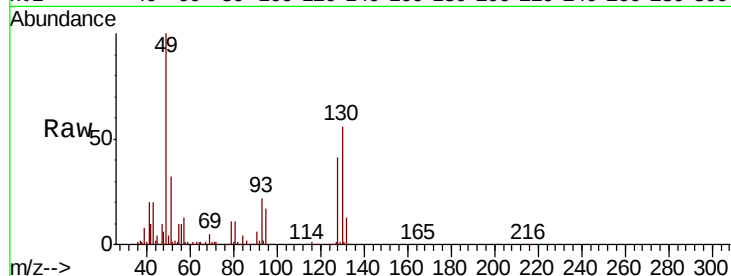
Tgt Ion: 49 Resp: 1374167

Ion Ratio Lower Upper

49 100

128 42.3 20.7 62.1

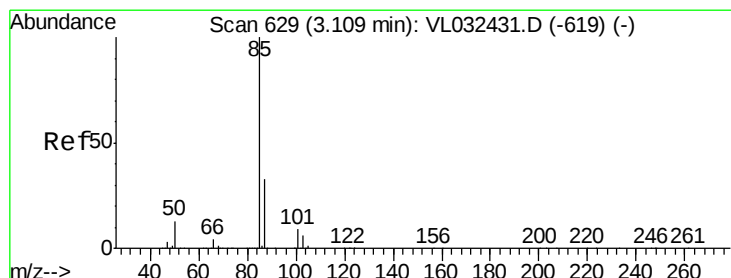
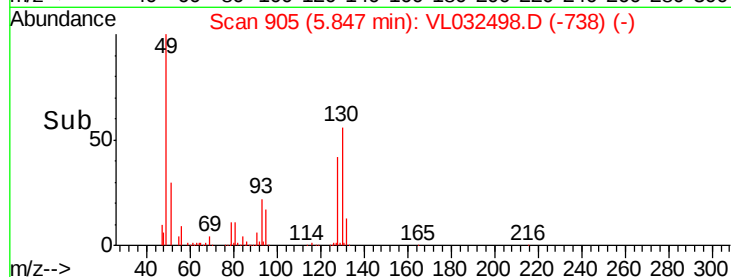
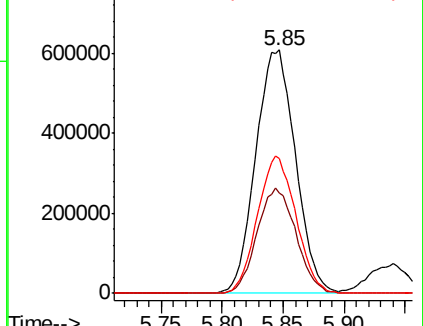
130 54.5 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.196 ppbv

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032498.D

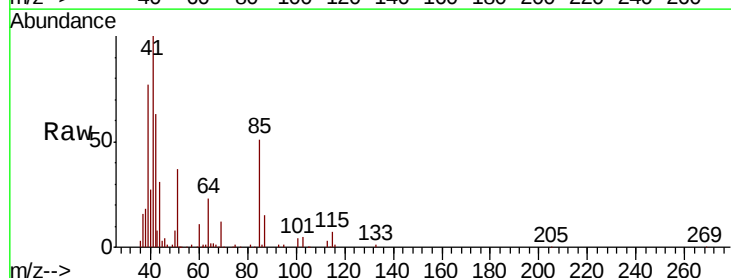
Acq: 11 Sep 2018 4:00

Tgt Ion: 85 Resp: 34510

Ion Ratio Lower Upper

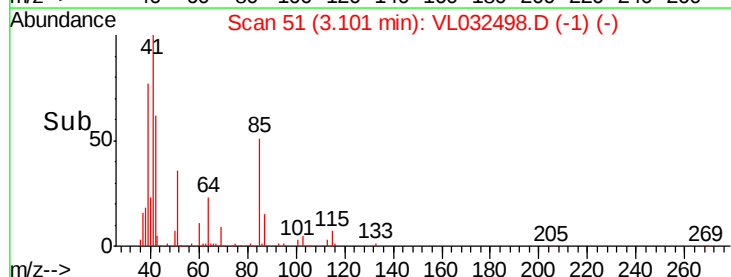
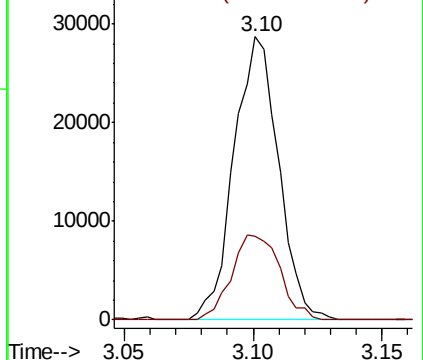
85 100

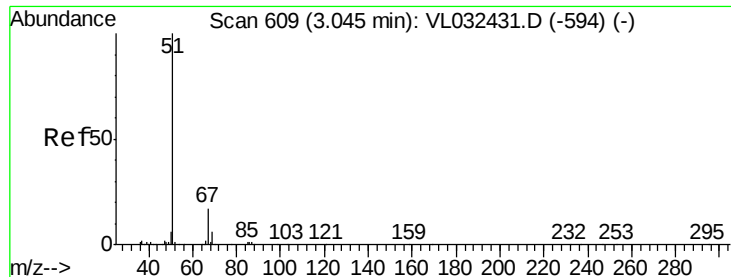
87 29.6 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.605 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

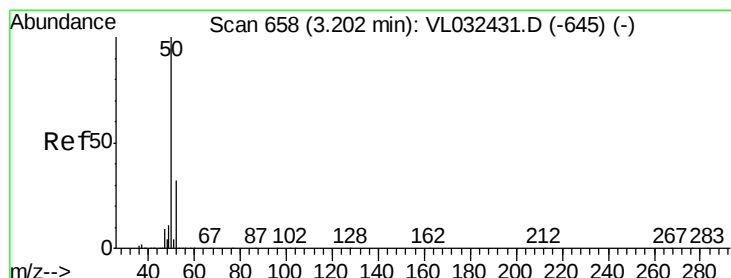
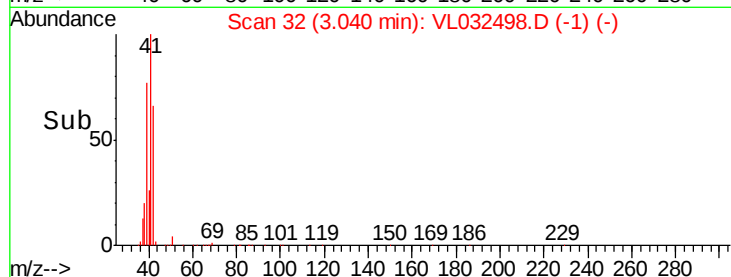
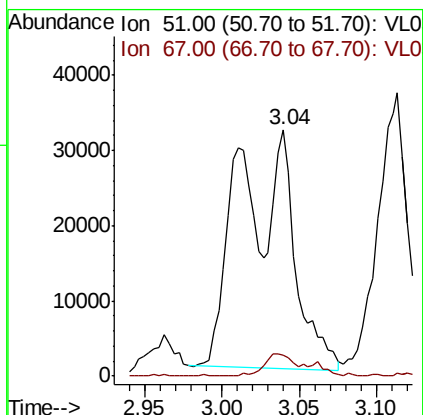
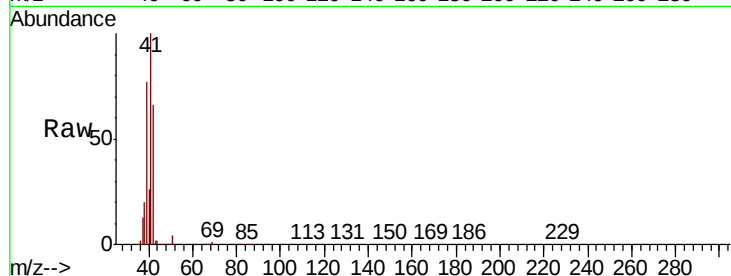
255-BERRY

Tgt Ion: 51 Resp: 75200

Ion Ratio Lower Upper

51 100

67 7.5 13.8 20.8#



#4

Chloromethane

Concen: 2.269 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL032498.D

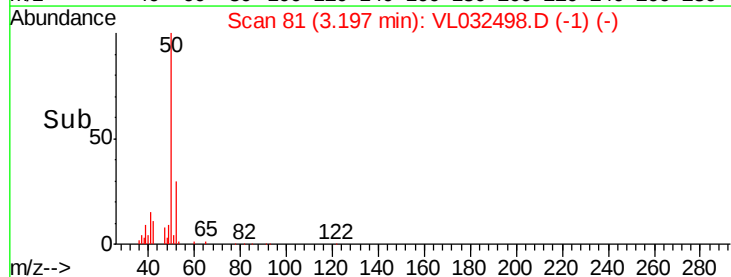
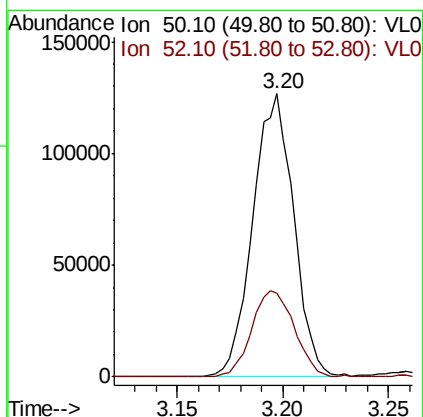
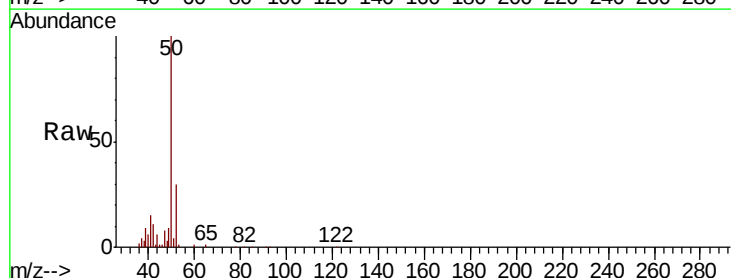
Acq: 11 Sep 2018 4:00

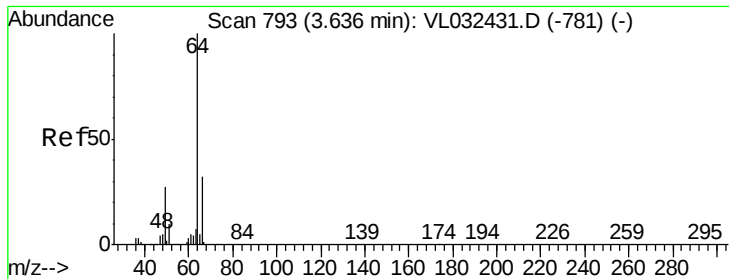
Tgt Ion: 50 Resp: 170911

Ion Ratio Lower Upper

50 100

52 29.7 25.6 38.4





#7

Chloroethane

Concen: 0.654 ppbv

RT: 3.63 min Scan# 217

Delta R.T. -0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

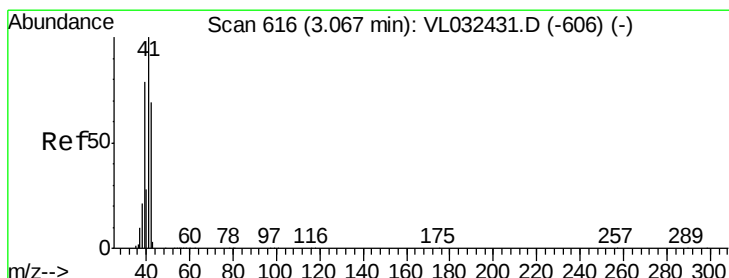
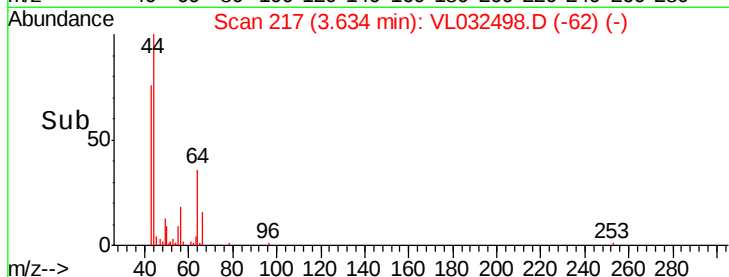
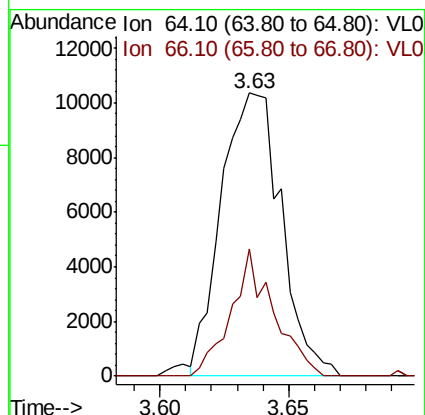
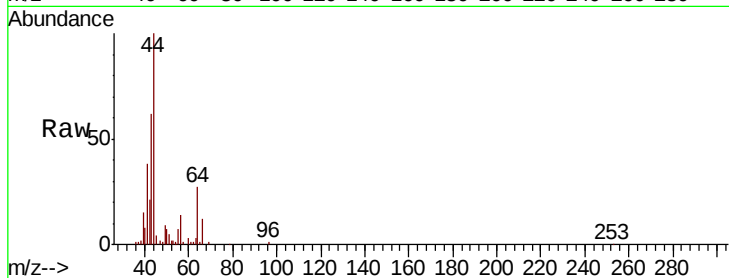
255-BERRY

Tgt Ion: 64 Resp: 16823

Ion Ratio Lower Upper

64 100

66 45.0 25.8 38.6#



#9

Propene

Concen: 205.620 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.01 min

Lab File: VL032498.D

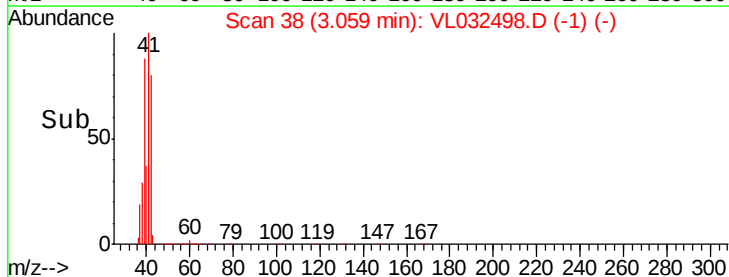
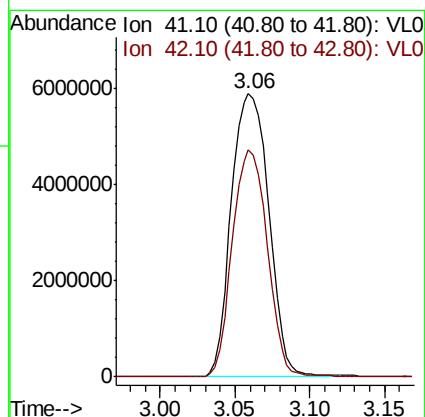
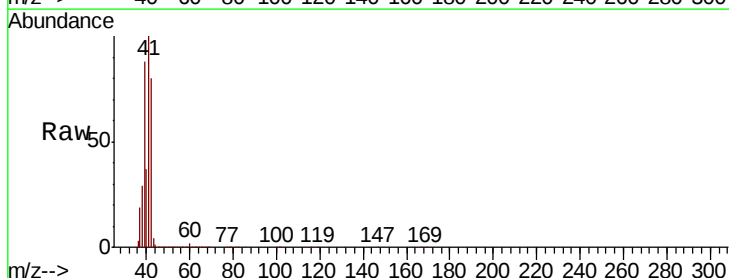
Acq: 11 Sep 2018 4:00

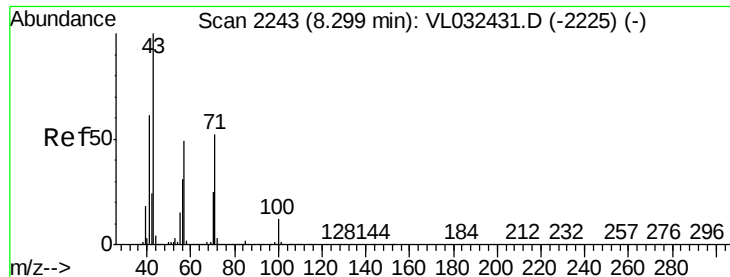
Tgt Ion: 41 Resp: 10317501

Ion Ratio Lower Upper

41 100

42 75.1 56.6 84.8





#10

Heptane

Concen: 2.104 ppbv

RT: 8.30 min Scan# 1668

Delta R.T. 0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

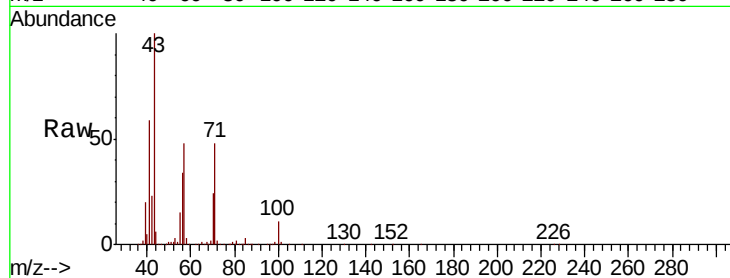
255-BERRY

Tgt Ion: 43 Resp: 378812

Ion Ratio Lower Upper

43 100

57 47.9 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.30

200000

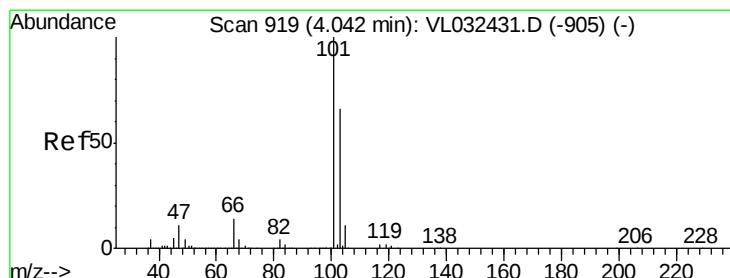
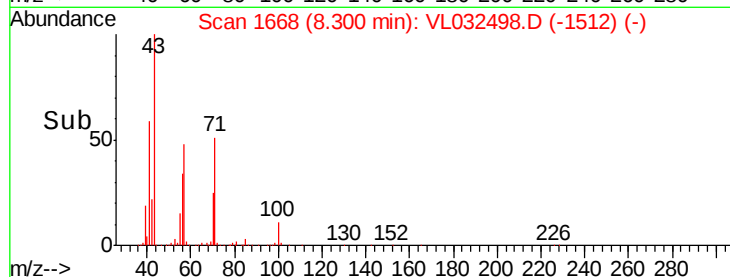
150000

100000

50000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.718 ppbv

RT: 4.04 min Scan# 343

Delta R.T. -0.00 min

Lab File: VL032498.D

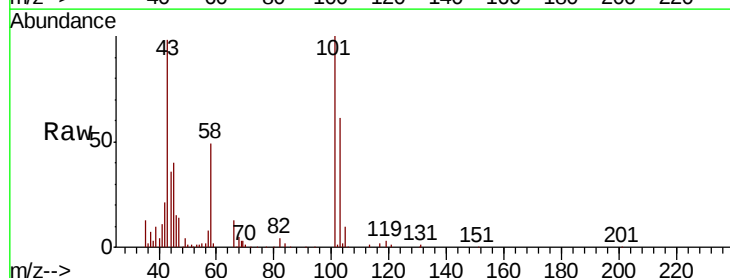
Acq: 11 Sep 2018 4:00

Tgt Ion: 101 Resp: 113730

Ion Ratio Lower Upper

101 100

103 60.3 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.04

80000

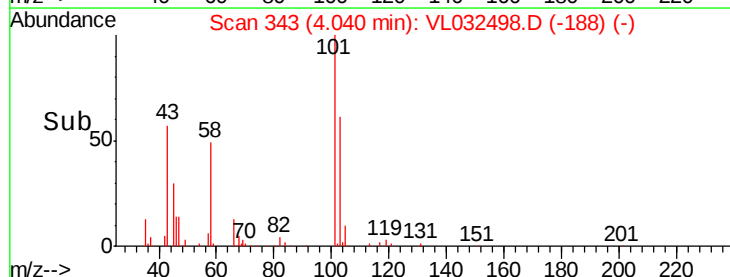
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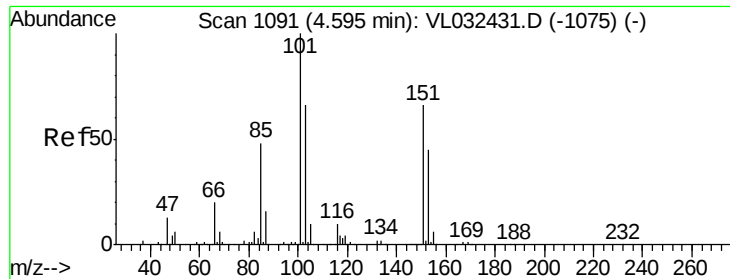
40000

20000

0

Time-->





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.048 ppbv

RT: 4.60 min Scan# 518

Delta R.T. 0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

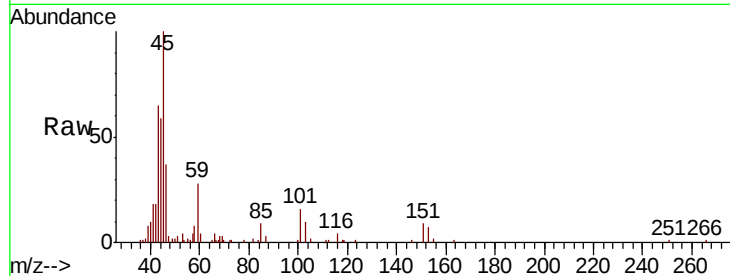
255-BERRY

Tgt Ion:101 Resp: 5125

Ion Ratio Lower Upper

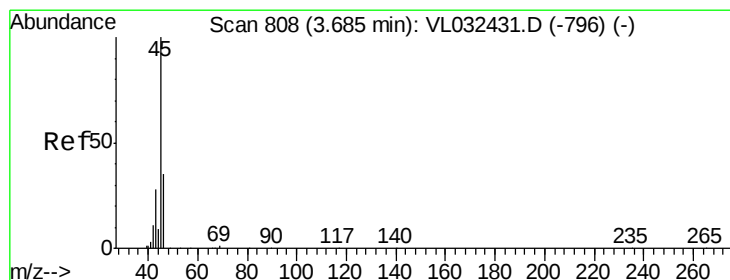
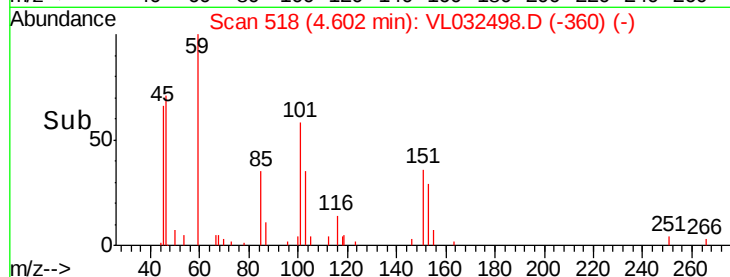
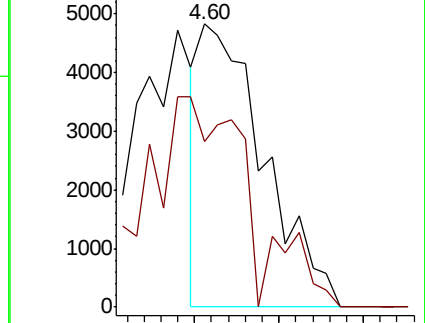
101 100

151 123.1 52.6 78.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 133.918 ppbv

RT: 3.74 min Scan# 249

Delta R.T. 0.05 min

Lab File: VL032498.D

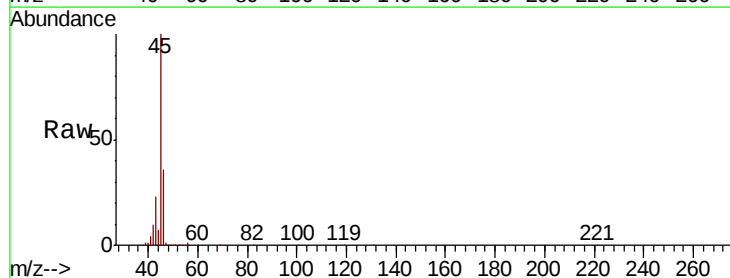
Acq: 11 Sep 2018 4:00

Tgt Ion: 45 Resp: 2094608

Ion Ratio Lower Upper

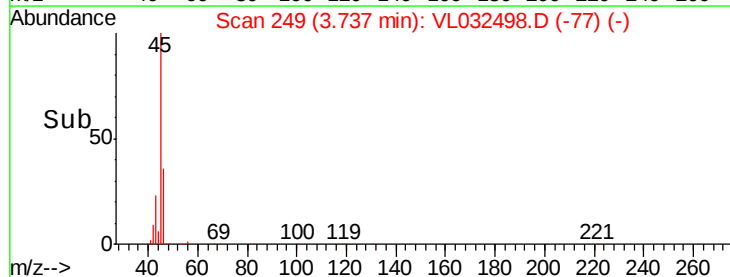
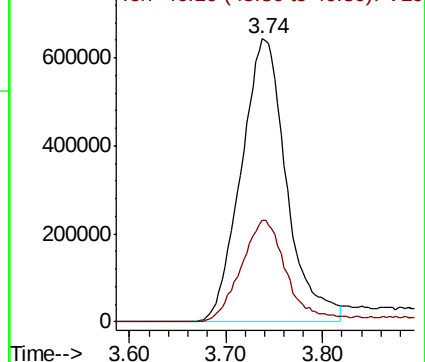
45 100

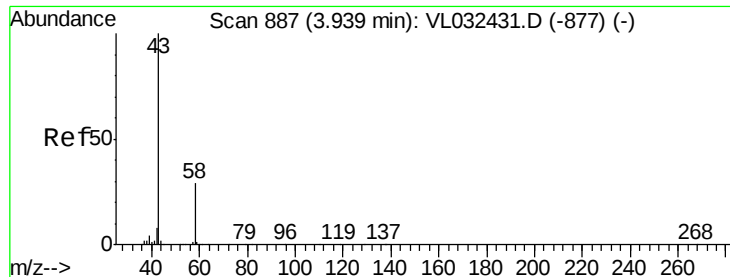
46 36.6 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 152.557 ppbv

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 :

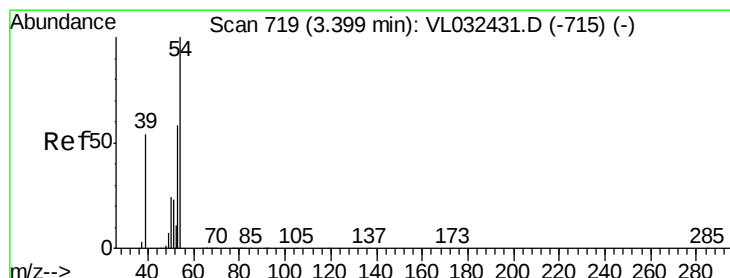
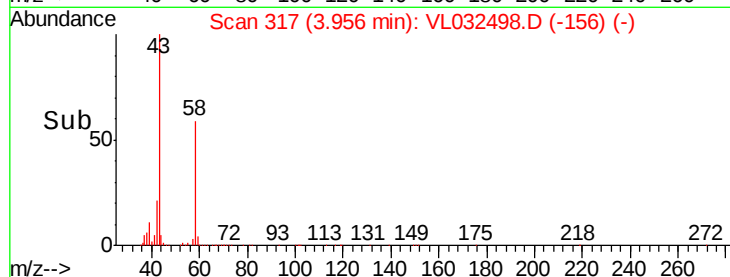
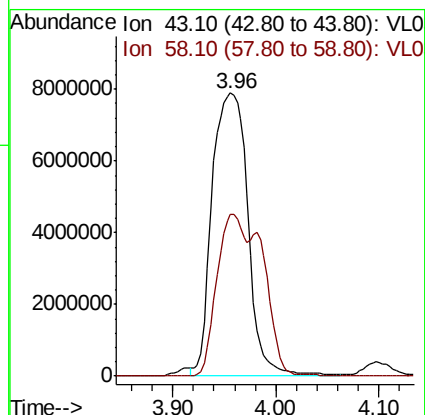
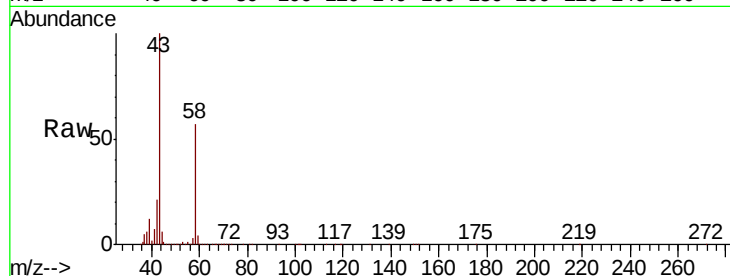
255-BERRY

Tgt Ion: 43 Resp:18878416

Ion Ratio Lower Upper

43 100

58 74.1 22.6 33.8#



#16

1,3-Butadiene

Concen: 11.704 ppbv

RT: 3.42 min Scan# 150

Delta R.T. 0.02 min

Lab File: VL032498.D

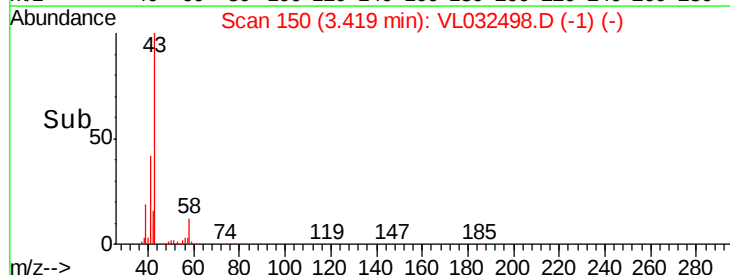
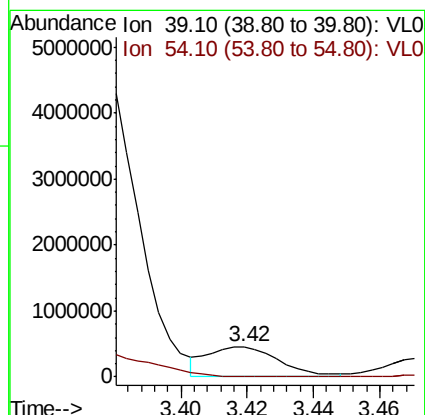
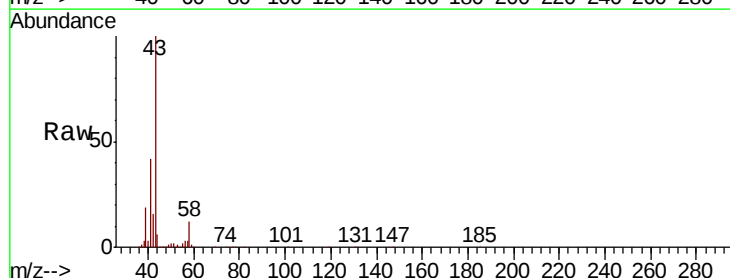
Acq: 11 Sep 2018 4:00

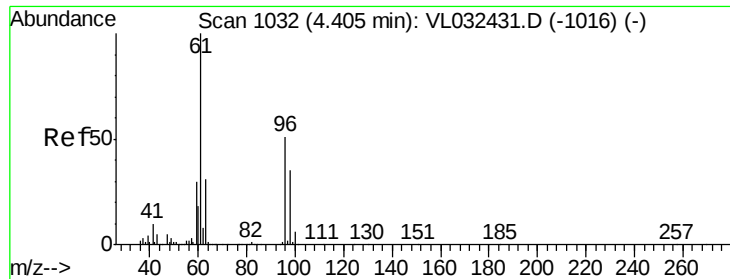
Tgt Ion: 39 Resp: 681504

Ion Ratio Lower Upper

39 100

54 0.0 80.8 121.2#

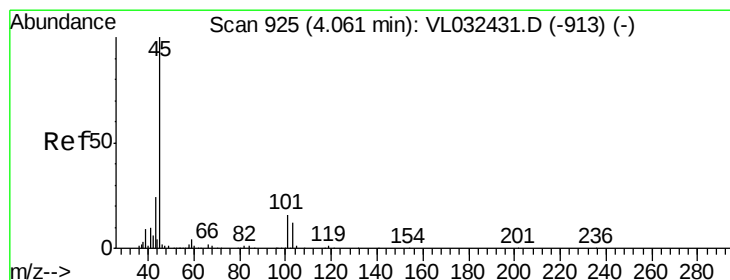
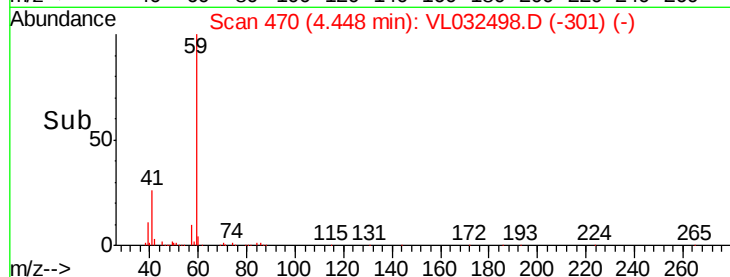
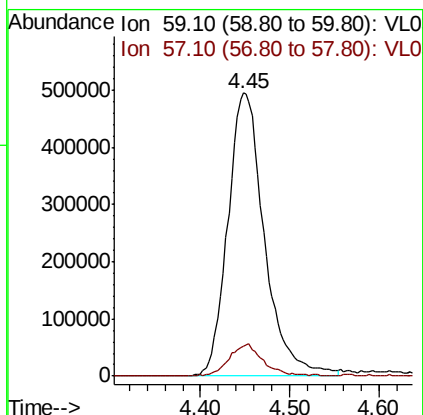
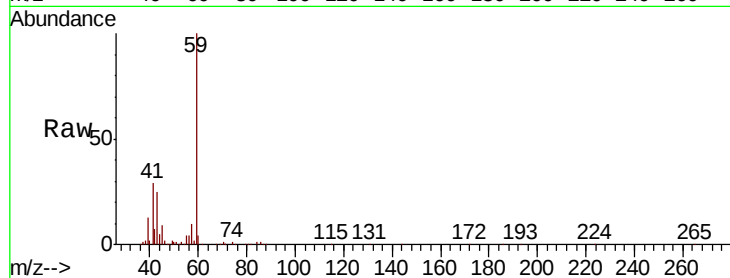




#17
 tert-Butyl alcohol
 Concen: 73.782 ppbv
 RT: 4.45 min Scan# 470
 Delta R.T. 0.04 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

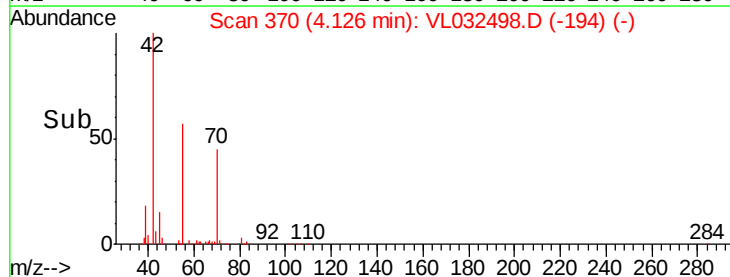
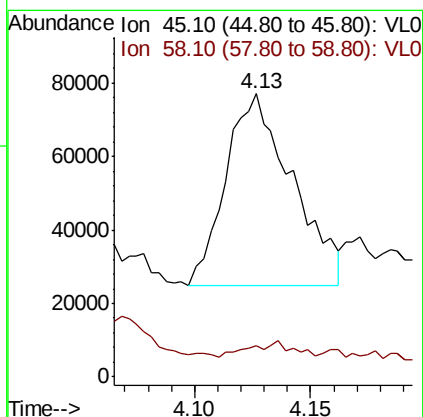
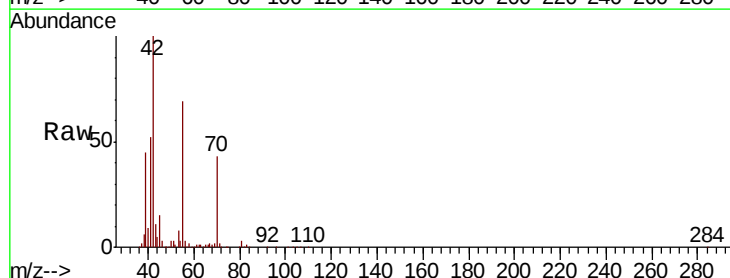
Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

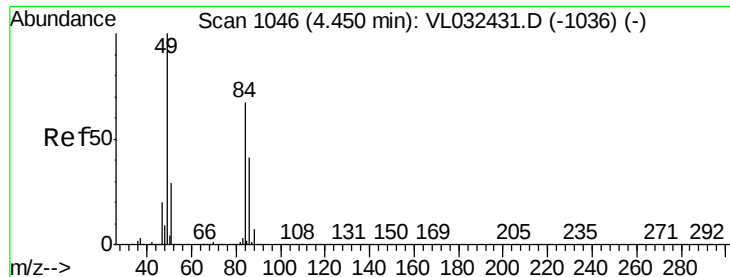
Tgt Ion: 59 Resp: 1405060
 Ion Ratio Lower Upper
 59 100
 57 10.5 0.0 0.0#



#19
 Isopropyl Alcohol
 Concen: 1.282 ppbv
 RT: 4.13 min Scan# 370
 Delta R.T. 0.07 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion: 45 Resp: 104046
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#

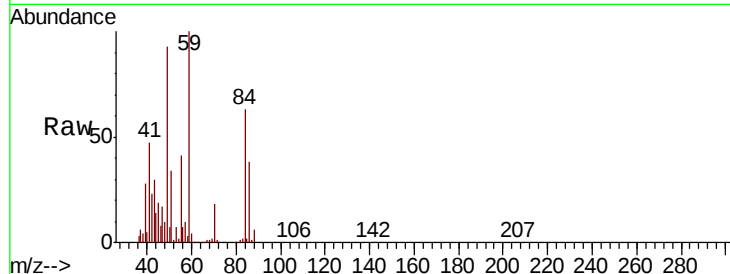




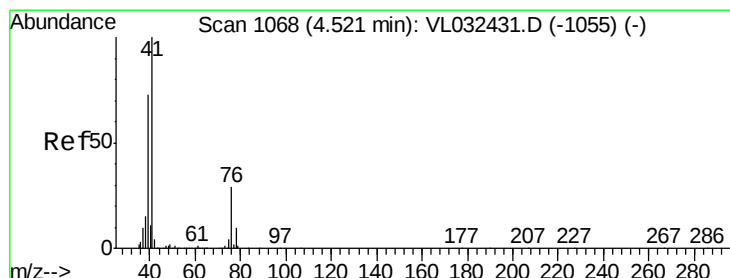
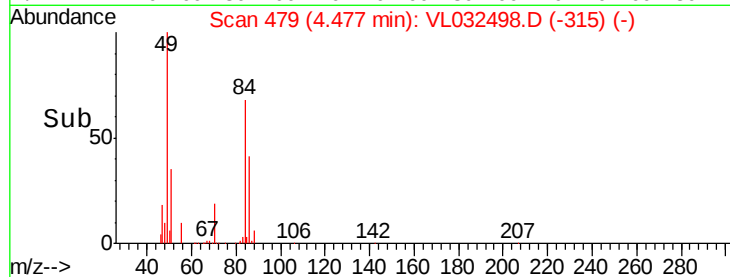
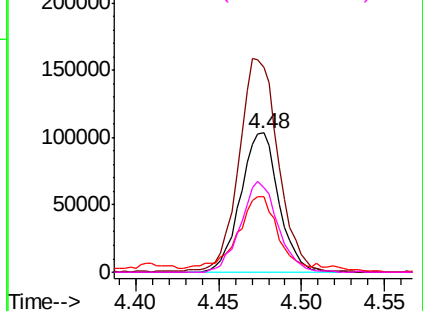
#20
Methylene Chloride
Concen: 3.514 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.03 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

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

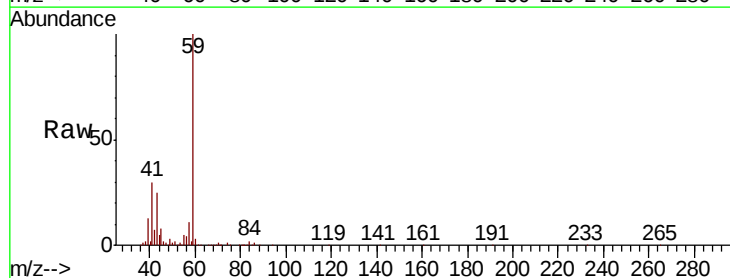


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

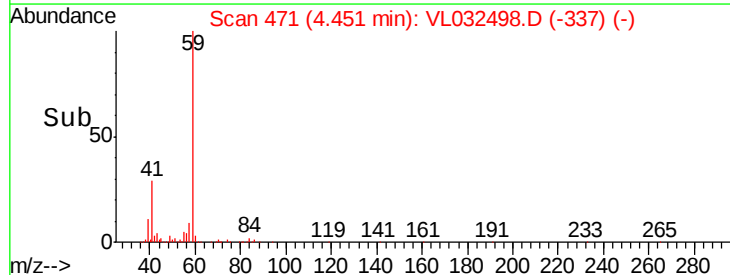
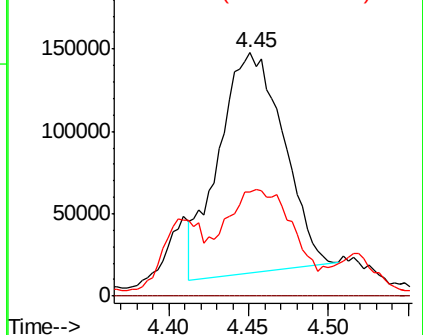


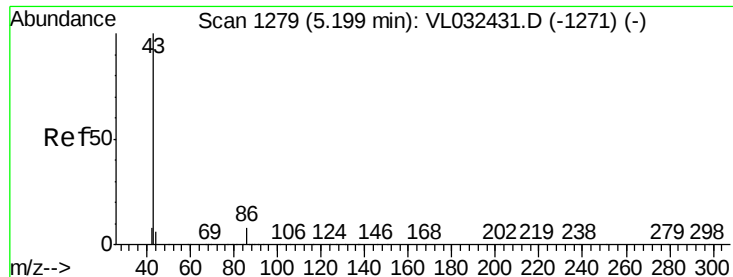
#21
Allyl Chloride
Concen: 4.532 ppbv
RT: 4.45 min Scan# 471
Delta R.T. -0.07 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Tgt Ion:	41	Resp:	372487
Ion	Ratio	Lower	Upper
41	100		
76	50.2	23.6	35.4#
39	0.0	57.7	86.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

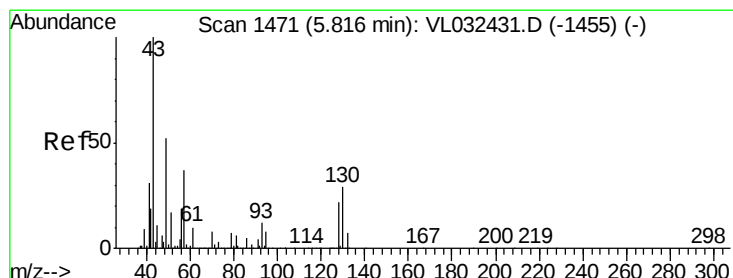
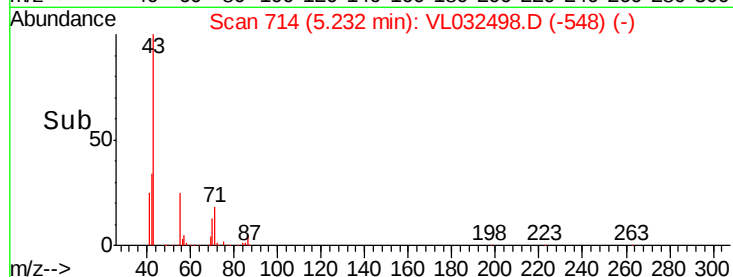
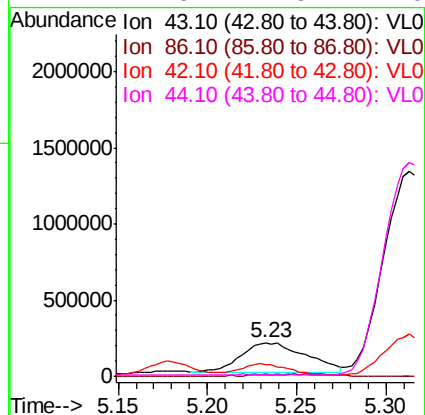
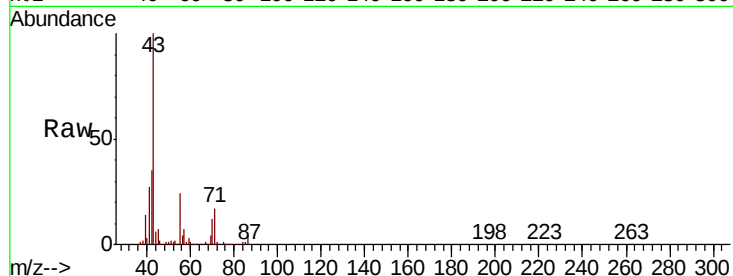




#23
 Vinyl Acetate
 Concen: 2.411 ppbv
 RT: 5.23 min Scan# 714
 Delta R.T. 0.03 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

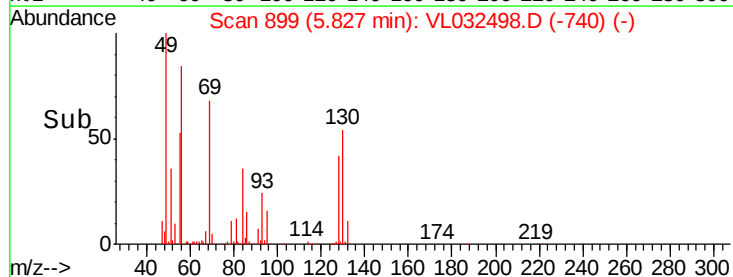
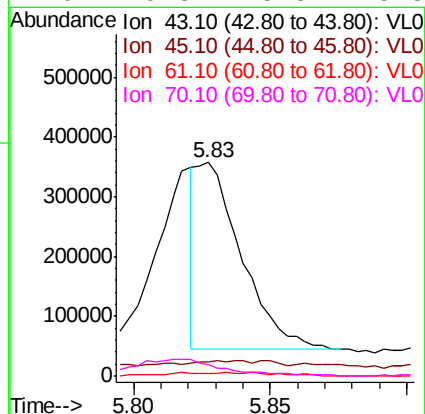
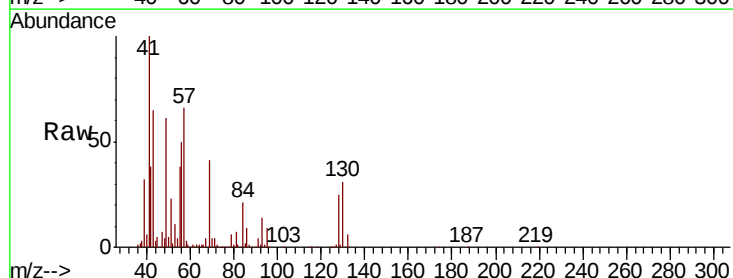
Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

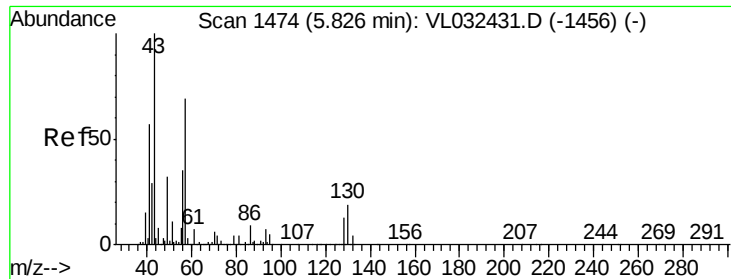
Tgt Ion:	43	Resp:	494524
Ion	Ratio	Lower	Upper
43	100		
86	4.3	5.9	8.9#
42	33.7	6.9	10.3#
44	2.9	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 1.218 ppbv
 RT: 5.83 min Scan# 899
 Delta R.T. 0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion:	43	Resp:	355885
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	4.7	7.6	11.4#
70	19.3	5.8	8.8#

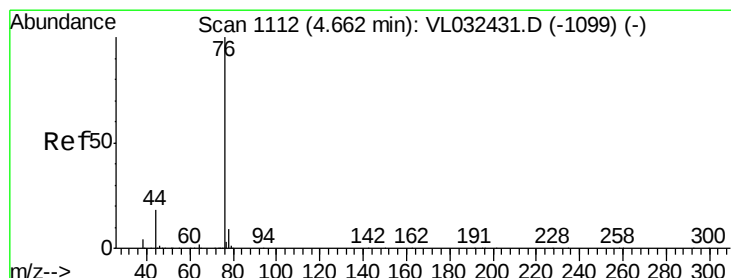
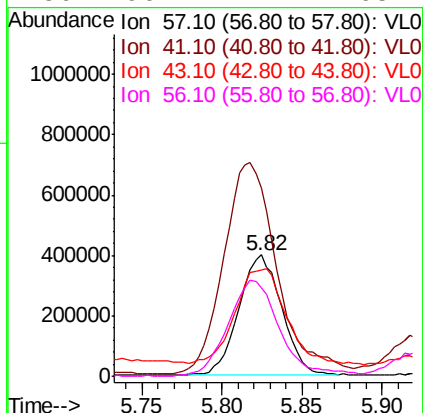
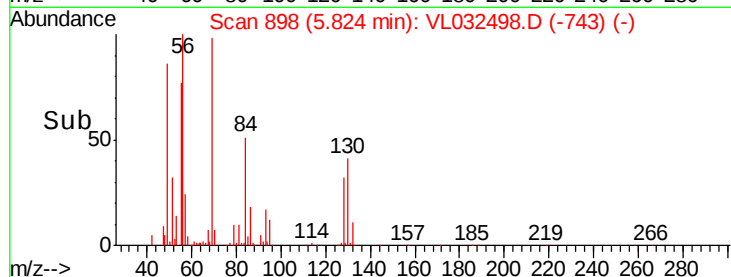
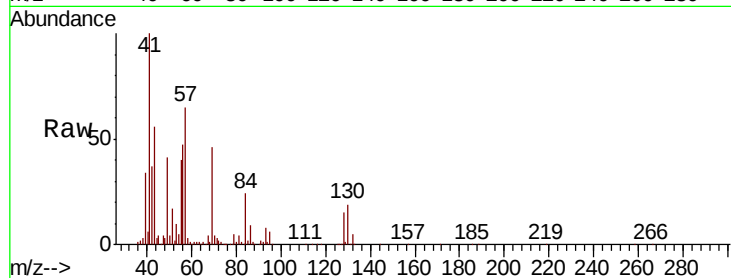




#26
Hexane
Concen: 5.522 ppbv
RT: 5.82 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

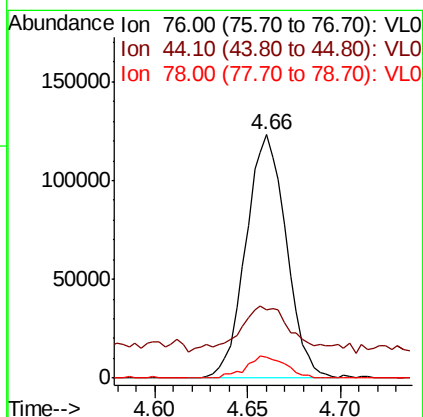
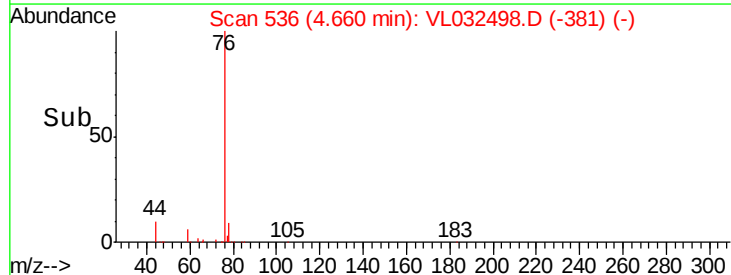
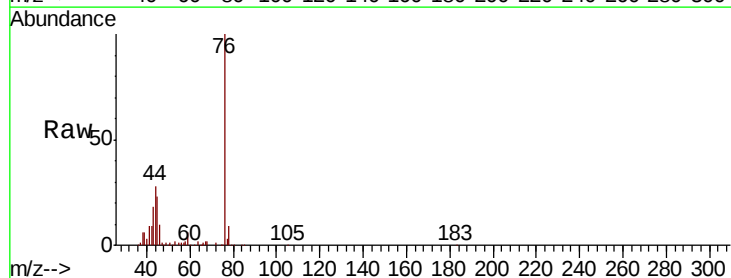
Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

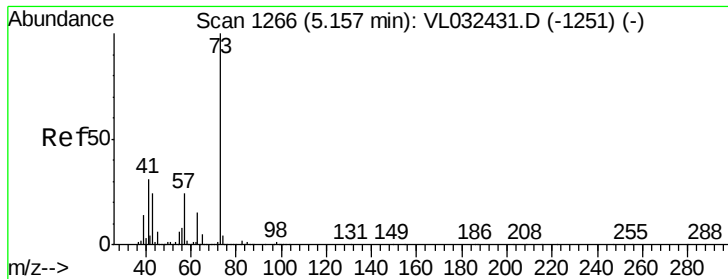
Tgt Ion: 57 Resp: 722600
Ion Ratio Lower Upper
57 100
41 219.3 69.0 103.4#
43 92.8 172.1 258.1#
56 96.1 42.2 63.2#



#27
Carbon Disulfide
Concen: 1.539 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: 76 Resp: 185864
Ion Ratio Lower Upper
76 100
44 55.0 14.0 21.0#
78 9.0 7.5 11.3

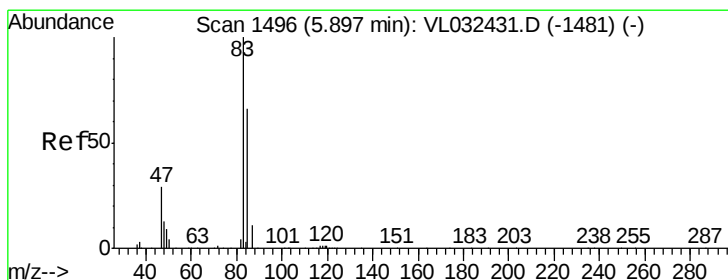
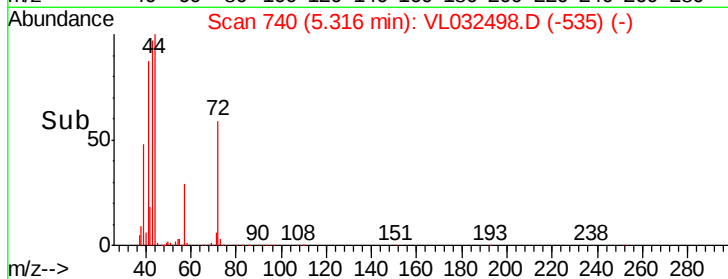
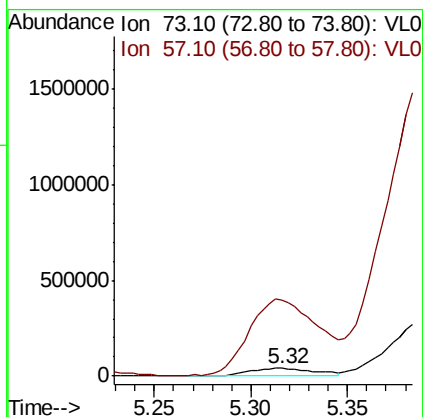
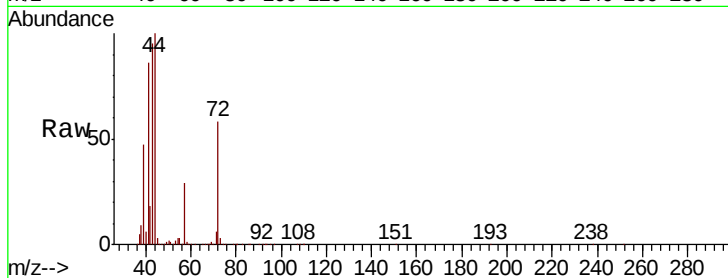




#28
Methyl tert-Butyl Ether
Concen: 0.603 ppbv
RT: 5.32 min Scan# 740
Delta R.T. 0.16 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

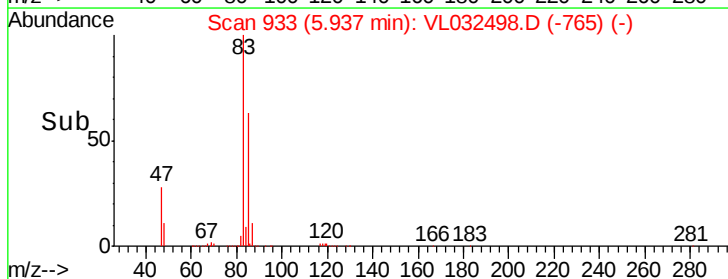
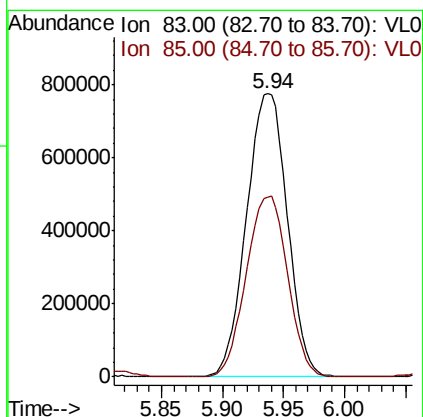
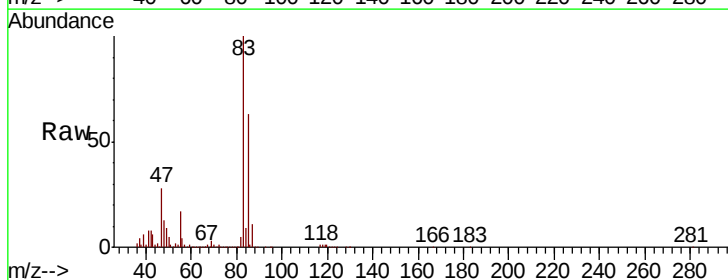
Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

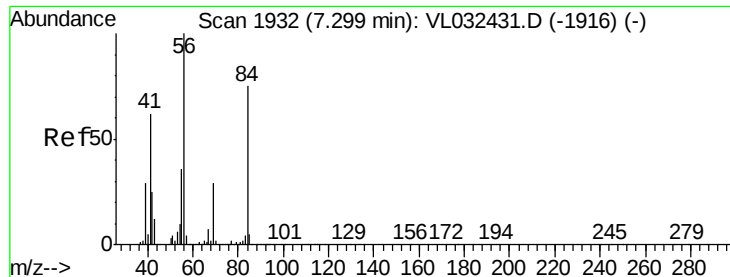
Tgt Ion: 73 Resp: 96813
Ion Ratio Lower Upper
73 100
57 982.4 19.3 28.9#



#29
Chloroform
Concen: 9.001 ppbv
RT: 5.94 min Scan# 933
Delta R.T. 0.04 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Tgt Ion: 83 Resp: 1795851
Ion Ratio Lower Upper
83 100
85 63.1 52.5 78.7

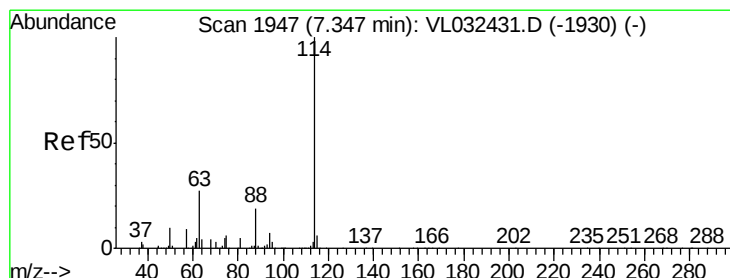
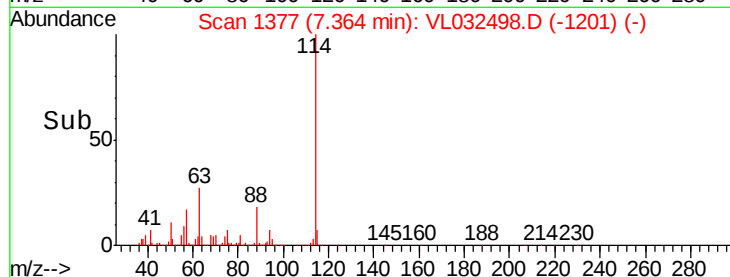
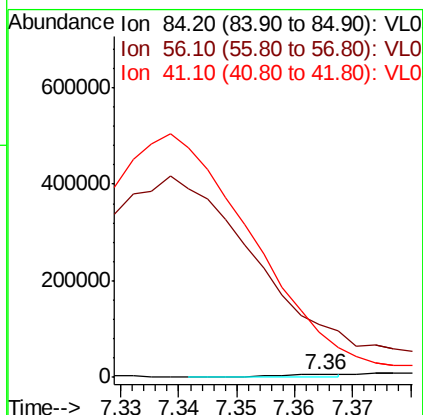
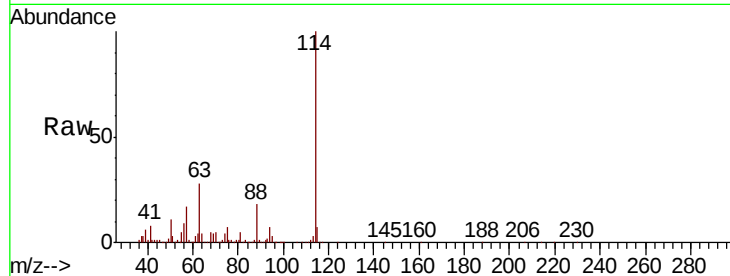




#30
Cyclohexane
Concen: 0.042 ppbv
RT: 7.36 min Scan# 1377
Delta R.T. 0.07 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

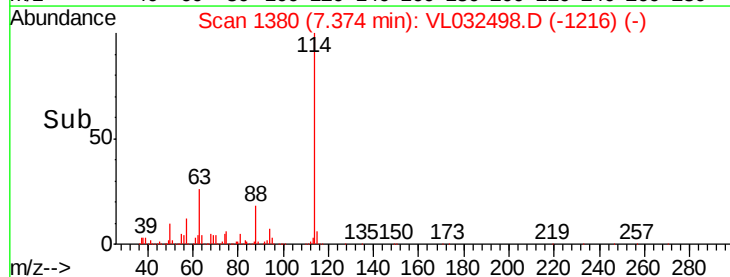
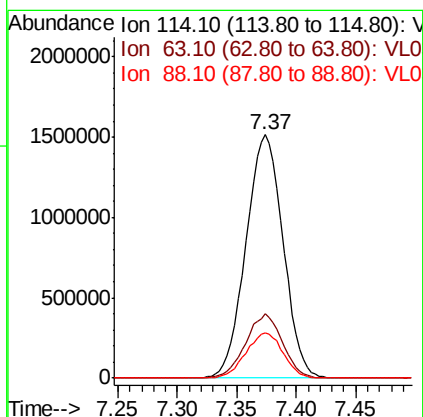
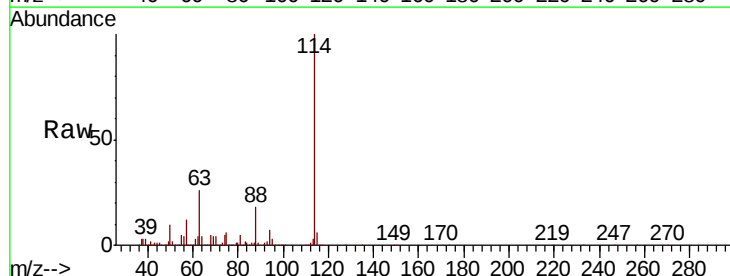
Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

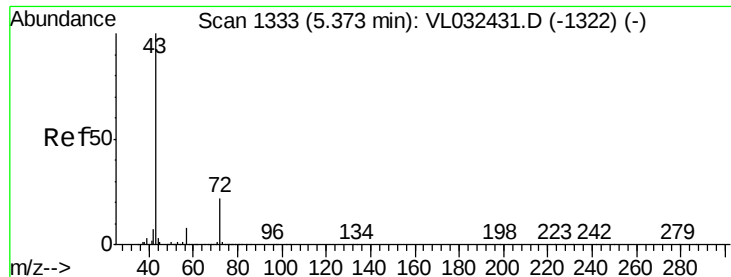
Tgt Ion: 84 Resp: 4001
Ion Ratio Lower Upper
84 100
56 25706.3 113.5 170.3#
41 26257.6 68.1 102.1#



#33
1,4-Difluorobenzene
Concen: 10.000 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

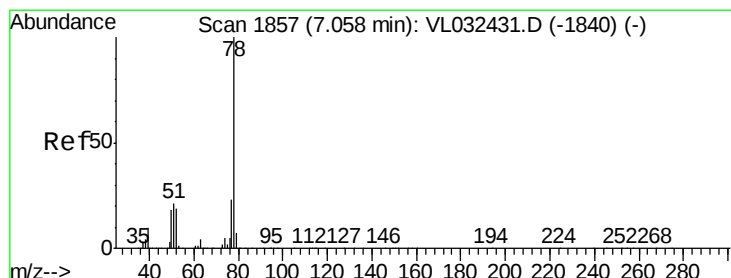
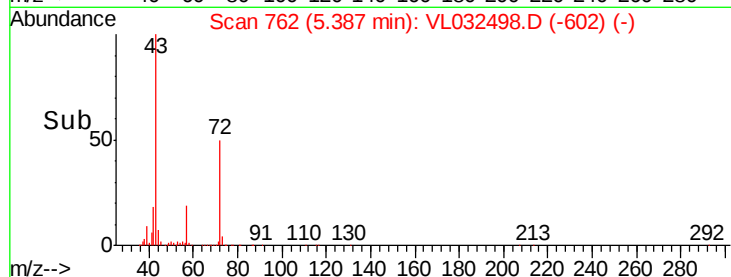
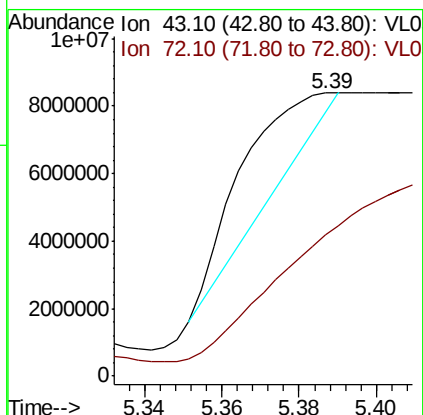
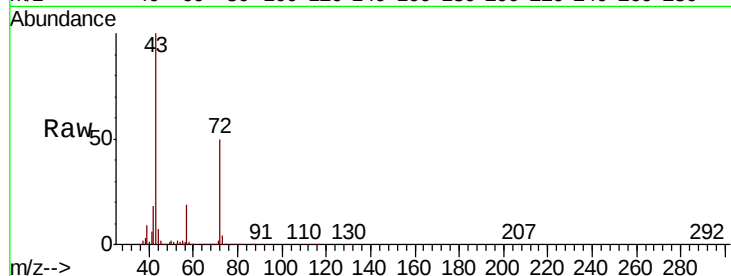




#34
2-Butanone
Concen: 18.777 ppbv
RT: 5.39 min Scan# 762
Delta R.T. 0.01 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

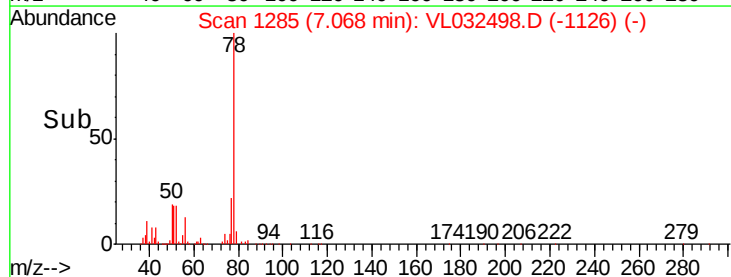
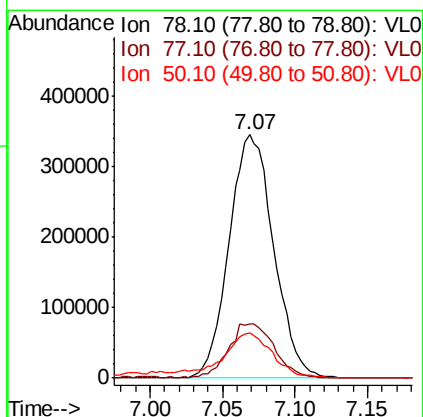
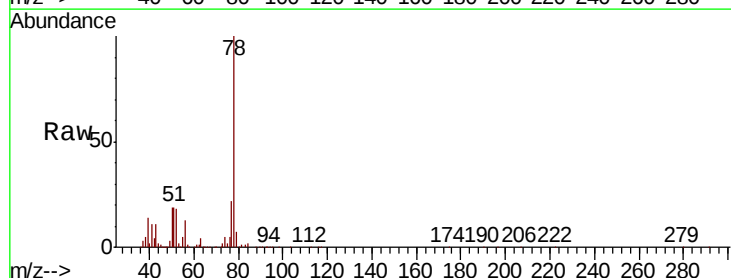
Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

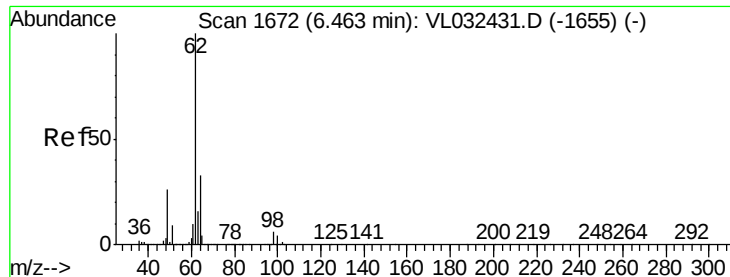
Tgt Ion: 43 Resp: 4085808
Ion Ratio Lower Upper
43 100
72 791.5 17.8 26.6#



#36
Benzene
Concen: 2.628 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

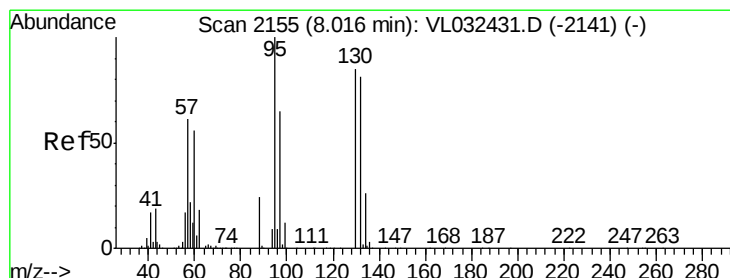
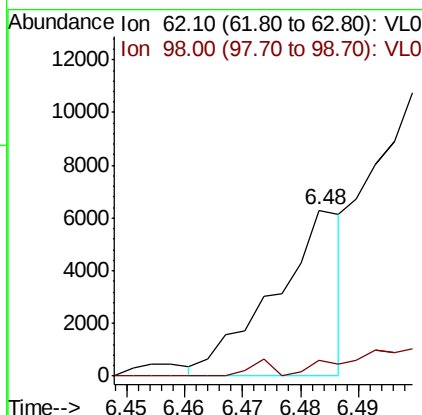
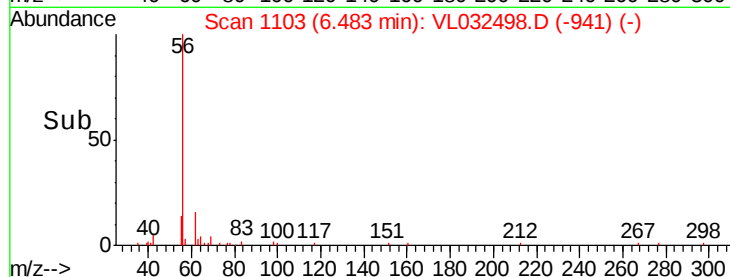
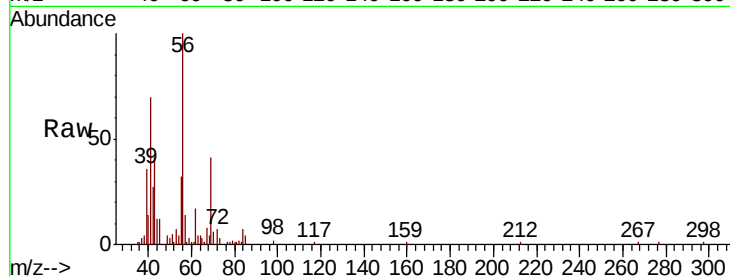




#37
 1,2-Dichloroethane
 Concen: 0.030 ppbv
 RT: 6.48 min Scan# 1103
 Delta R.T. 0.02 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

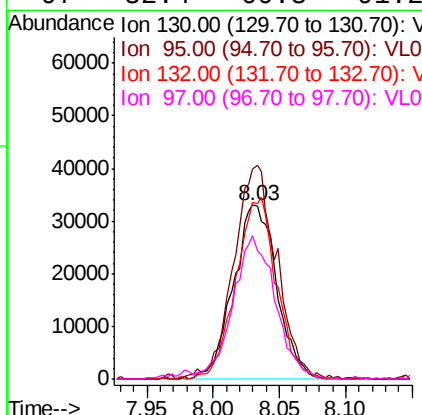
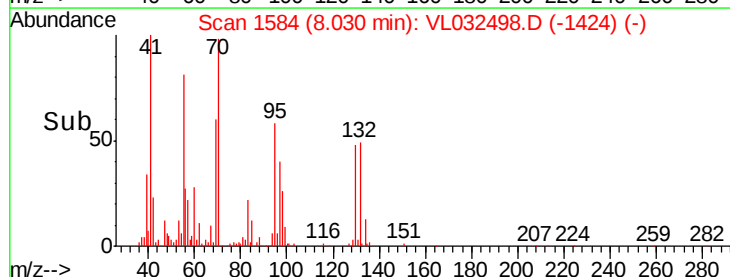
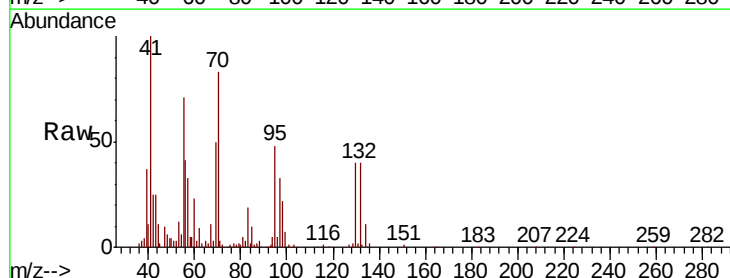
Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

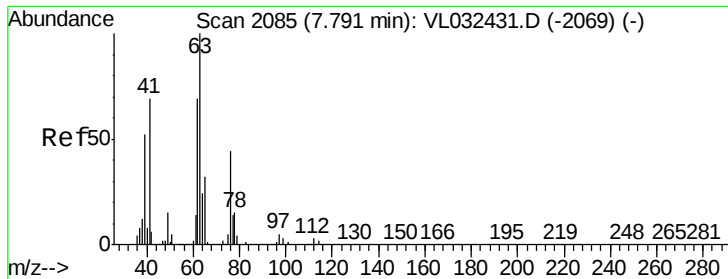
Tgt Ion: 62 Resp: 5174
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.0 7.6#



#38
 Trichloroethene
 Concen: 0.708 ppbv
 RT: 8.03 min Scan# 1584
 Delta R.T. 0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt 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





#39

1,2-Dichloropropane

Concen: 0.101 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. 0.20 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

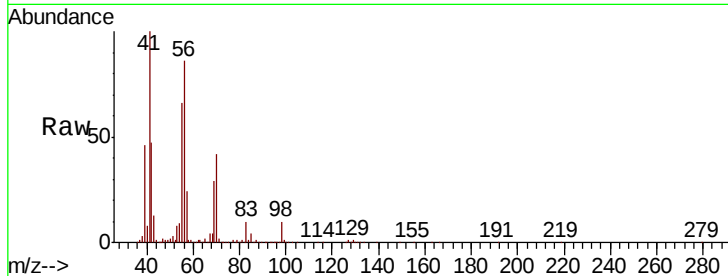
Tgt Ion: 63 Resp: 12074

Ion Ratio Lower Upper

63 100

41 10881.1 55.4 83.0#

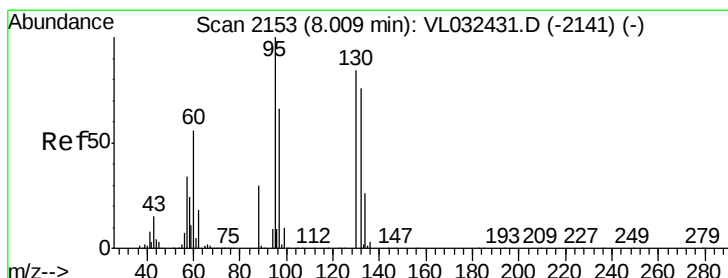
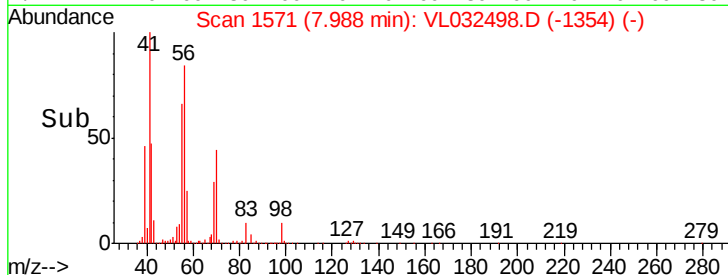
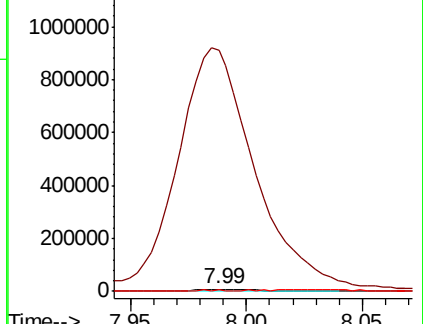
62 49.4 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.034 ppbv

RT: 8.04 min Scan# 1588

Delta R.T. 0.03 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Tgt Ion: 88 Resp: 1223

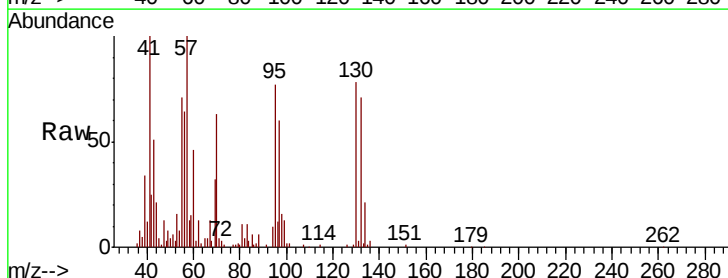
Ion Ratio Lower Upper

88 100

58 0.0 119.7 179.5#

43 0.0 253.0 379.4#

57 0.0 1156.9 1735.3#

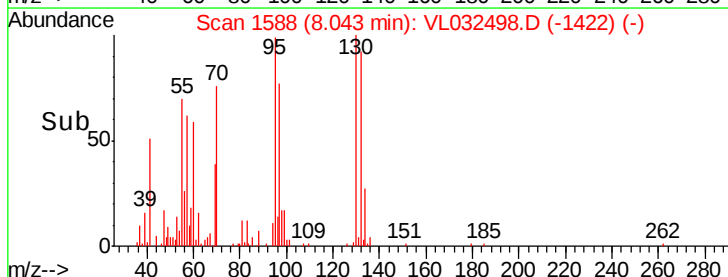
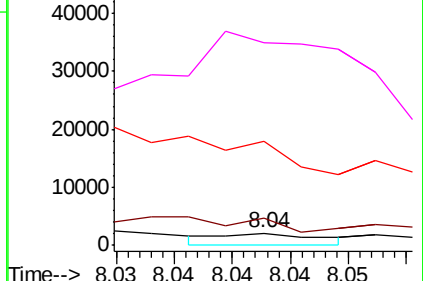


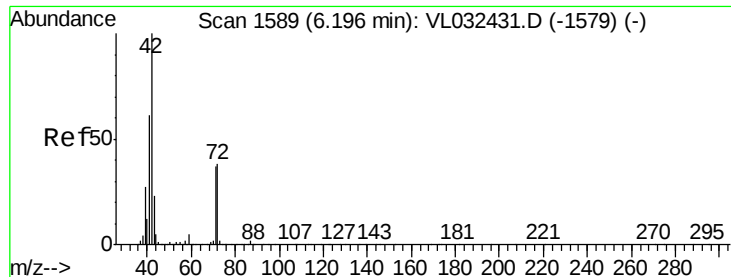
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

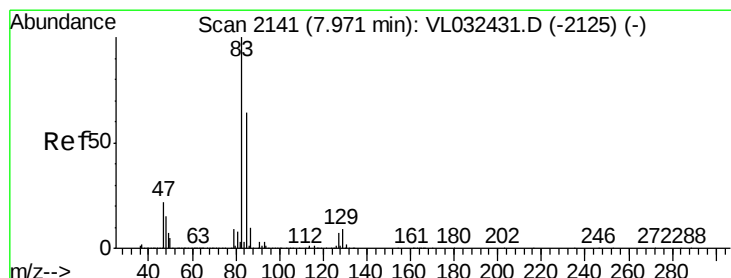
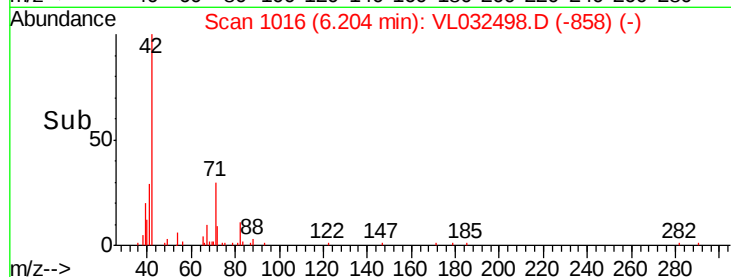
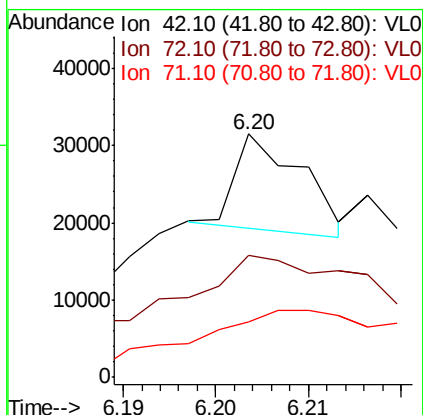
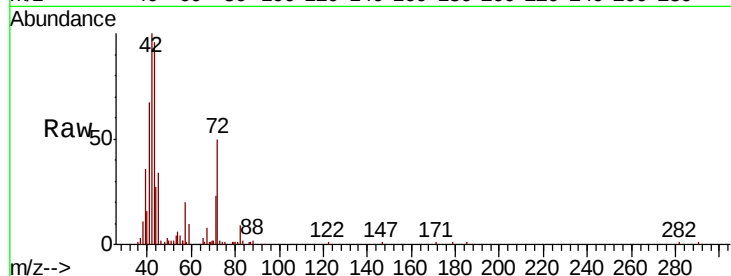




#41
Tetrahydrofuran
Concen: 0.051 ppbv
RT: 6.20 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

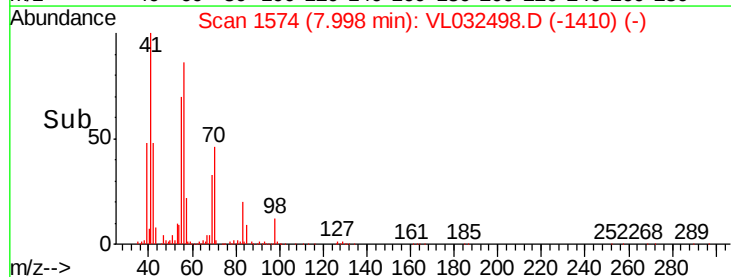
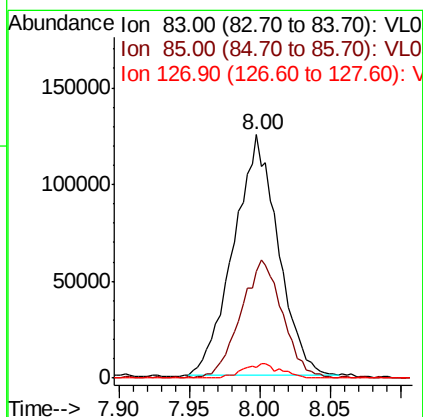
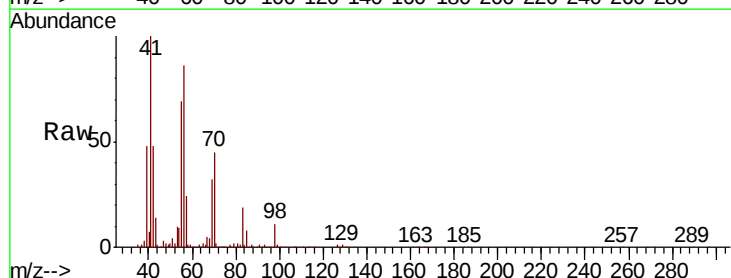
Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

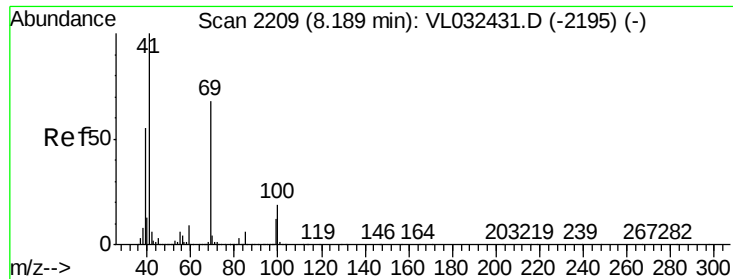
Tgt Ion: 42 Resp: 6074
Ion Ratio Lower Upper
42 100
72 400.2 29.5 44.3#
71 314.9 28.3 42.5#



#42
Bromodichloromethane
Concen: 1.171 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.03 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

Tgt Ion: 83 Resp: 275863
Ion Ratio Lower Upper
83 100
85 43.7 51.1 76.7#
127 4.6 5.8 8.8#





#43

Methyl Methacrylate

Concen: 1.825 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. 0.05 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

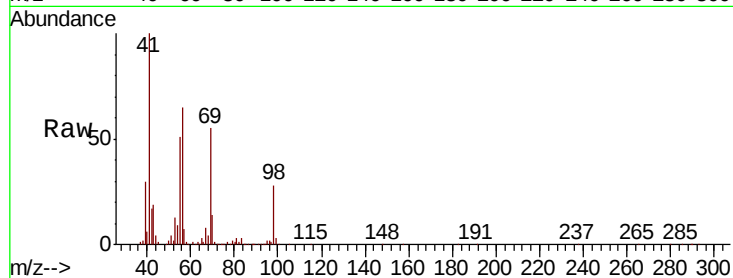
Tgt Ion: 69 Resp: 215850

Ion Ratio Lower Upper

69 100

41 188.6 117.1 175.7#

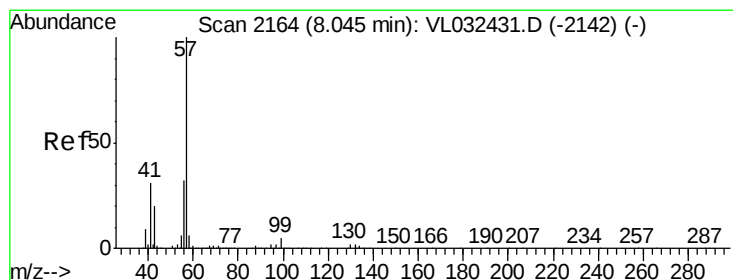
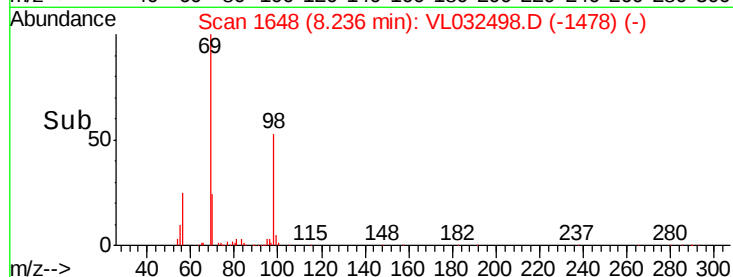
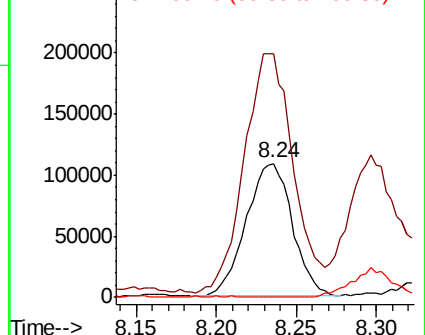
100 1.0 23.4 35.2#



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.771 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. -0.06 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

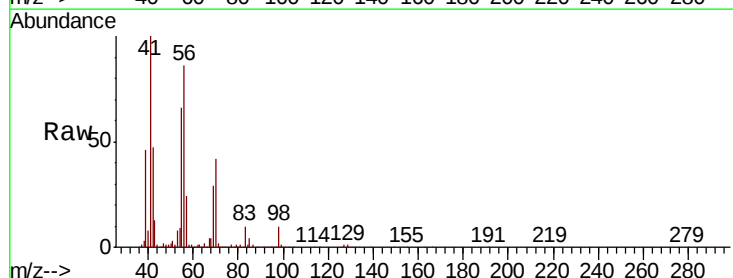
Tgt Ion: 57 Resp: 415746

Ion Ratio Lower Upper

57 100

41 520.6 24.4 36.6#

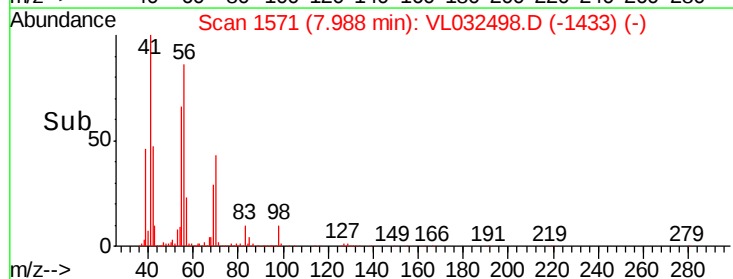
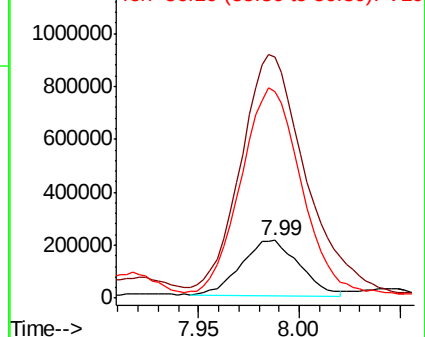
56 417.1 25.7 38.5#

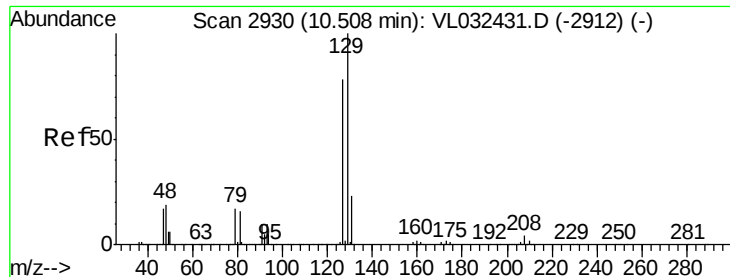


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#48

Dibromochloromethane

Concen: 0.274 ppbv

RT: 10.53 min Scan# 2363

Delta R.T. 0.03 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampled :

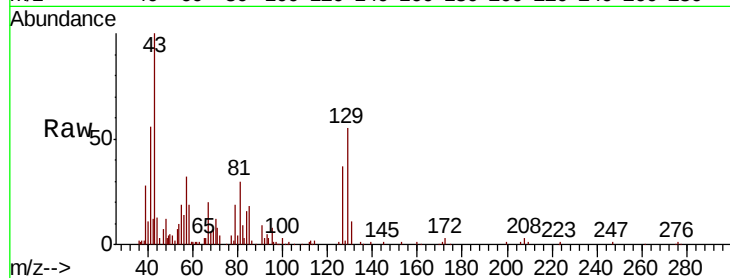
255-BERRY

Tgt Ion:129 Resp: 48081

Ion Ratio Lower Upper

129 100

127 80.1 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

25000

20000

15000

10000

5000

0

10.45

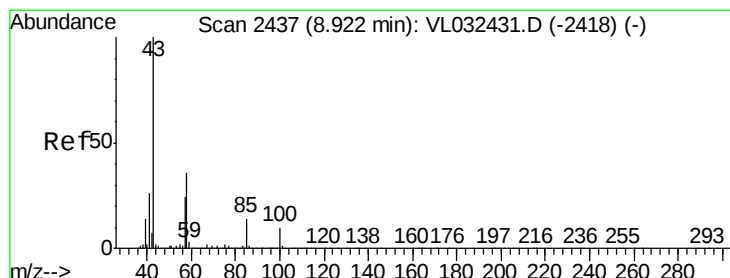
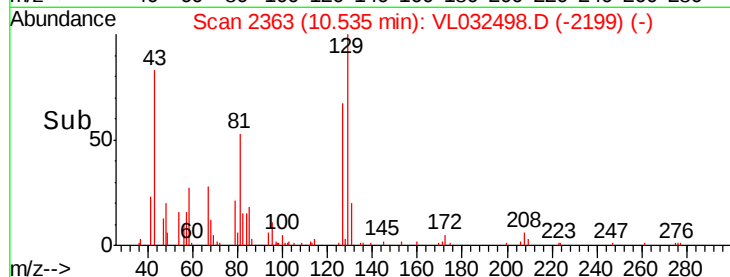
10.50

10.53

10.55

10.60

Time-->



#50

4-Methyl-2-Pentanone

Concen: 0.177 ppbv

RT: 8.94 min Scan# 1867

Delta R.T. 0.02 min

Lab File: VL032498.D

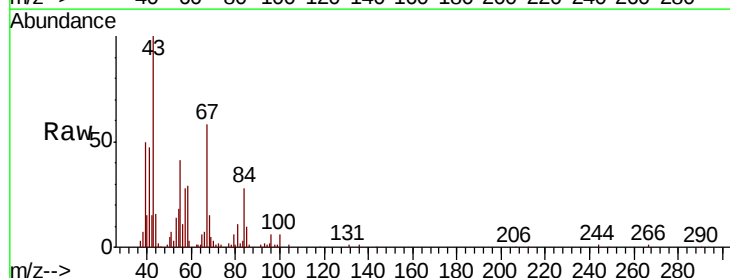
Acq: 11 Sep 2018 4:00

Tgt Ion: 43 Resp: 57888

Ion Ratio Lower Upper

43 100

58 53.7 29.0 43.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

40000

30000

20000

10000

0

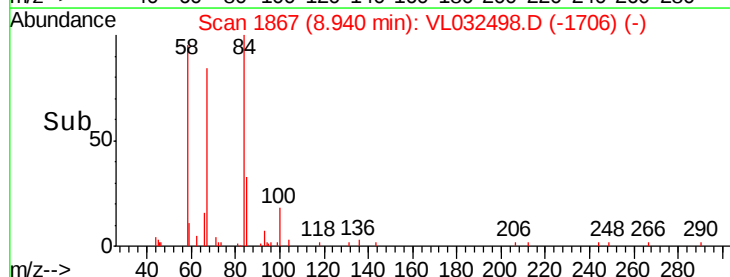
8.90

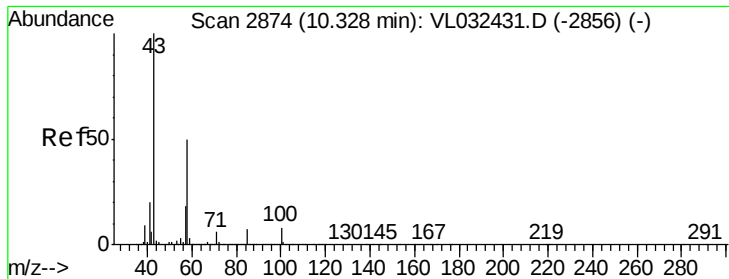
8.94

8.95

9.00

Time-->





#51

2-Hexanone

Concen: 131.543 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

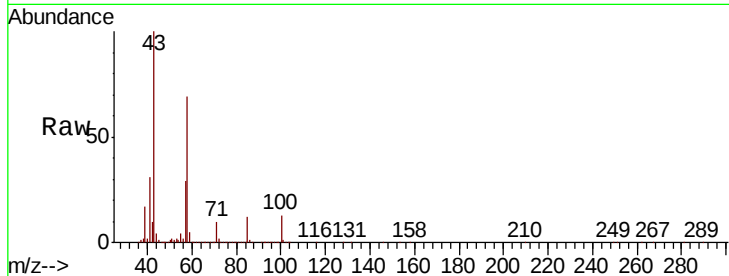
Tgt Ion: 43 Resp: 27772823

Ion Ratio Lower Upper

43 100

58 60.8 39.2 58.8#

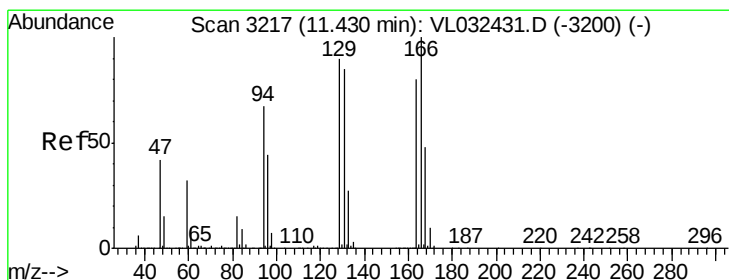
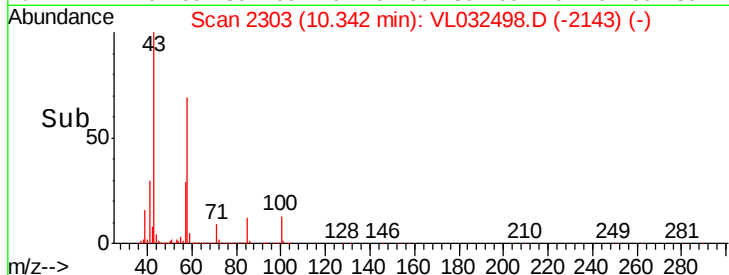
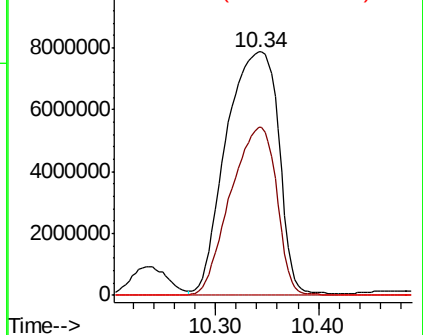
98 0.0 0.4 0.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.447 ppbv

RT: 11.44 min Scan# 2645

Delta R.T. 0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Tgt Ion: 164 Resp: 38611

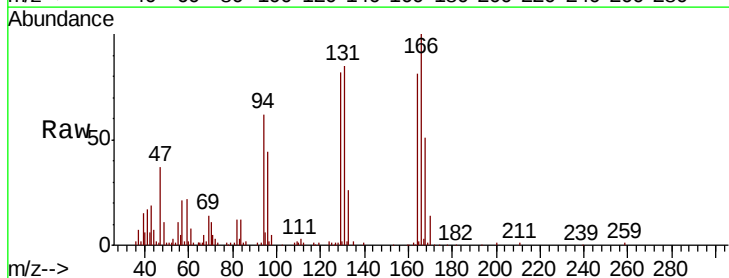
Ion Ratio Lower Upper

164 100

166 123.0 100.6 150.8

129 101.6 89.9 134.9

131 106.5 85.9 128.9

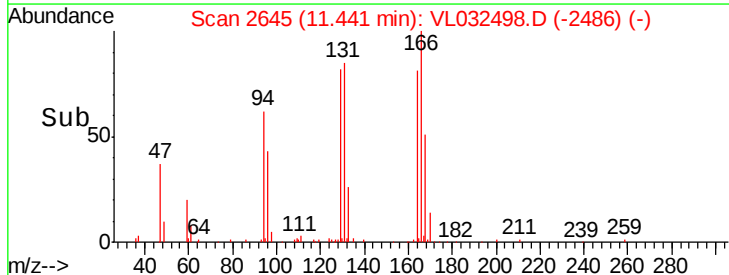
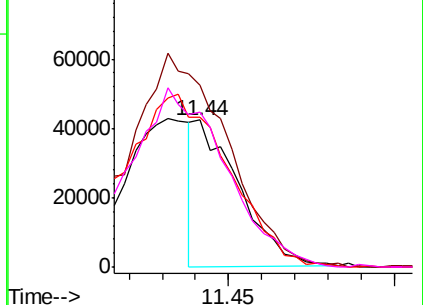


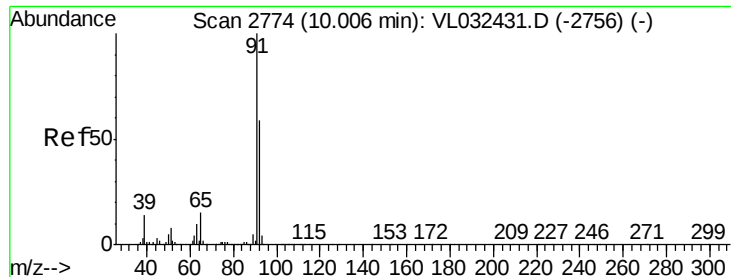
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 3.356 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

ClientSampleId :

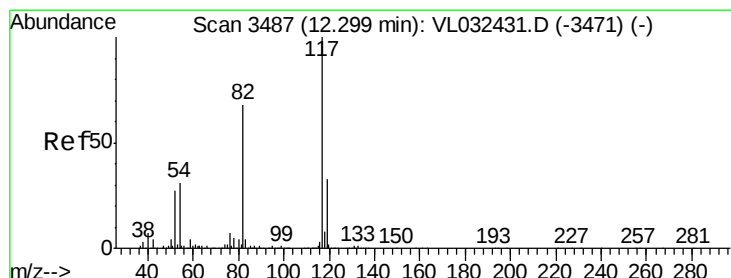
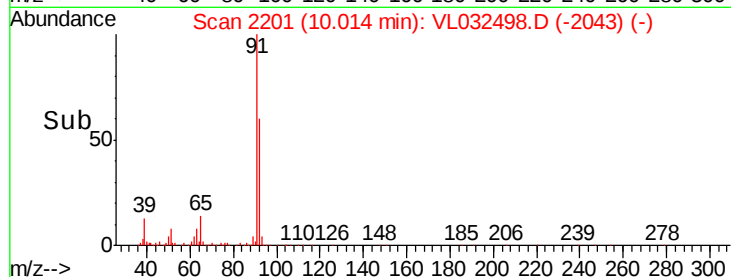
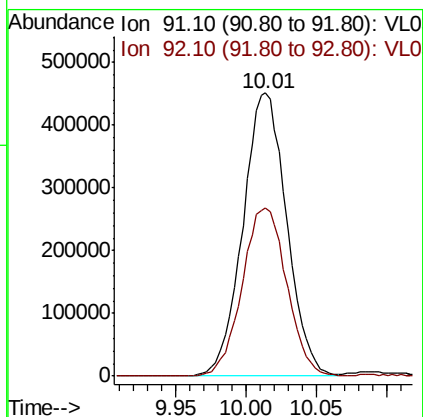
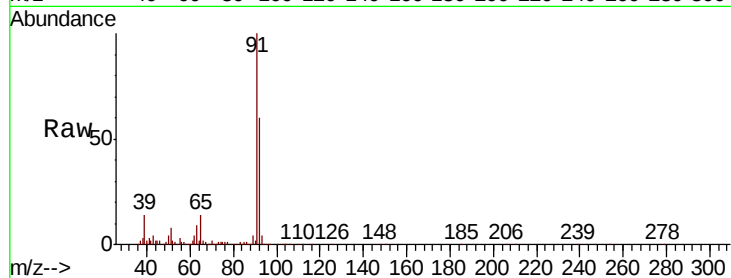
255-BERRY

Tgt Ion: 91 Resp: 977884

Ion Ratio Lower Upper

91 100

92 60.9 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

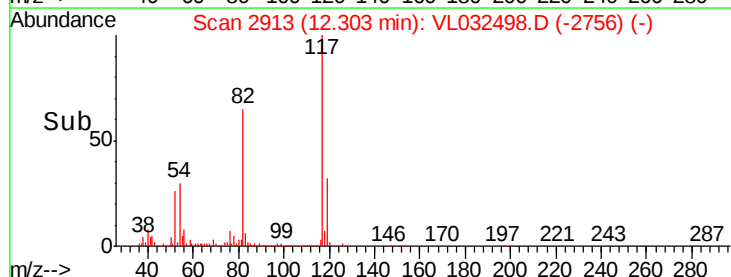
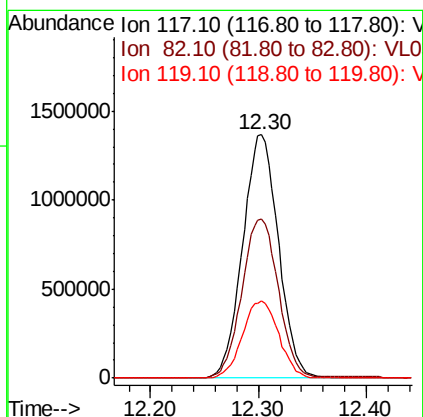
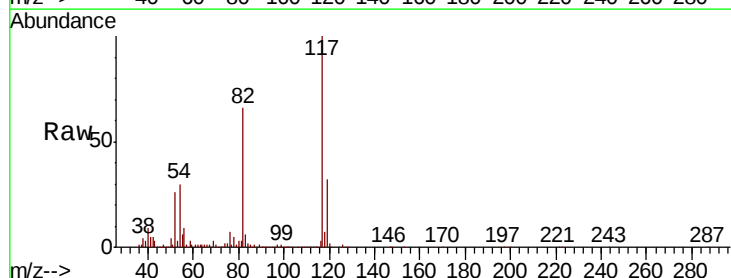
Tgt Ion: 117 Resp: 3144840

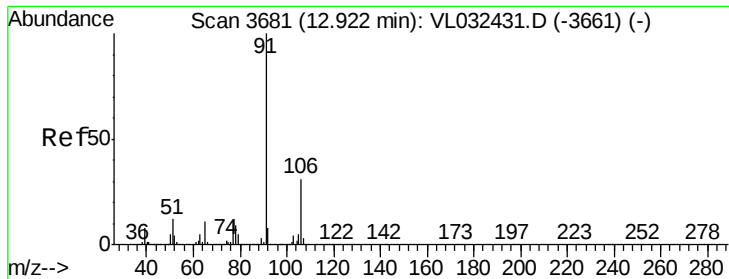
Ion Ratio Lower Upper

117 100

82 67.0 53.0 79.6

119 32.4 45.9 68.9#





#58

Ethyl Benzene

Concen: 1.256 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 :

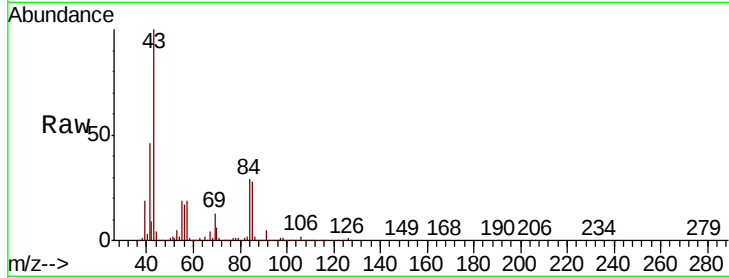
255-BERRY

Tgt Ion: 91 Resp: 472612

Ion Ratio Lower Upper

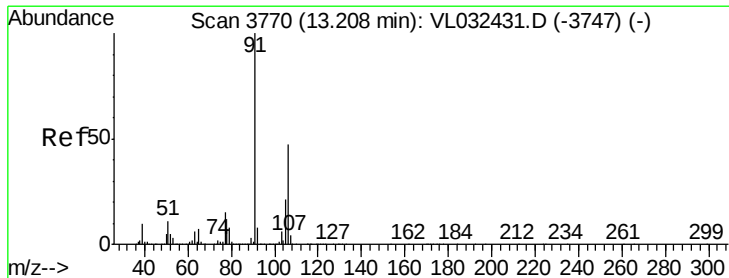
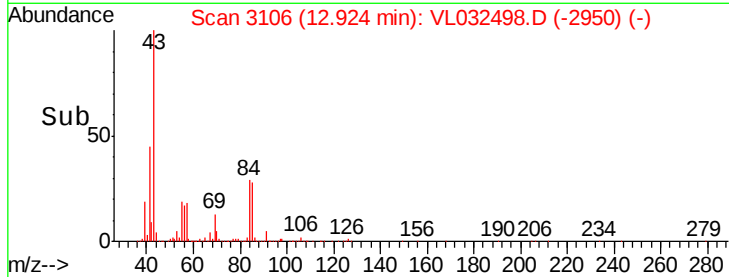
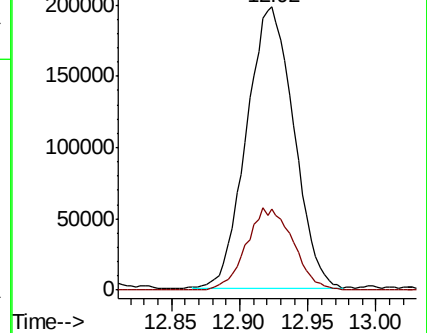
91 100

106 28.7 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: 5.218 ppbv

RT: 13.18 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VL032498.D

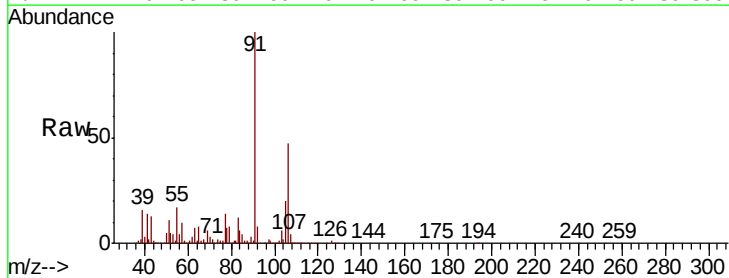
Acq: 11 Sep 2018 4:00

Tgt Ion: 91 Resp: 1750674

Ion Ratio Lower Upper

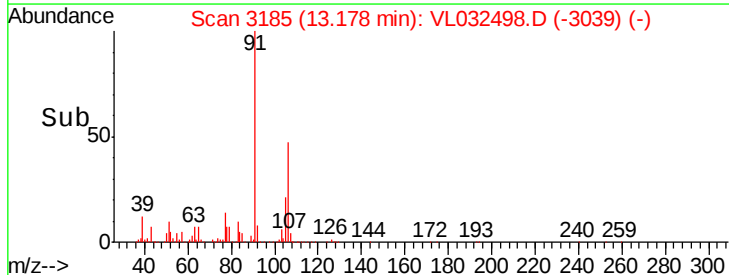
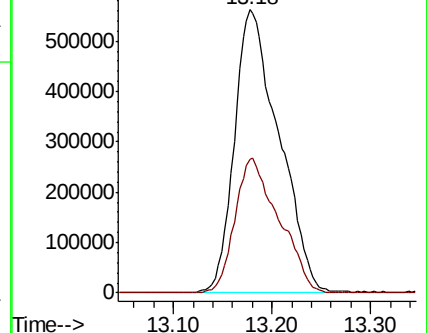
91 100

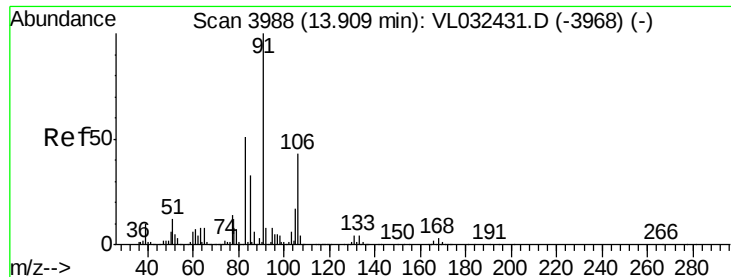
106 47.5 36.6 55.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

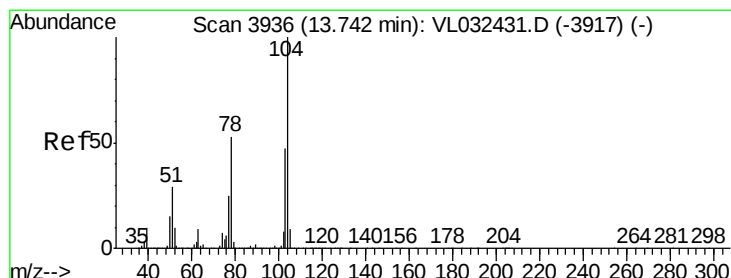
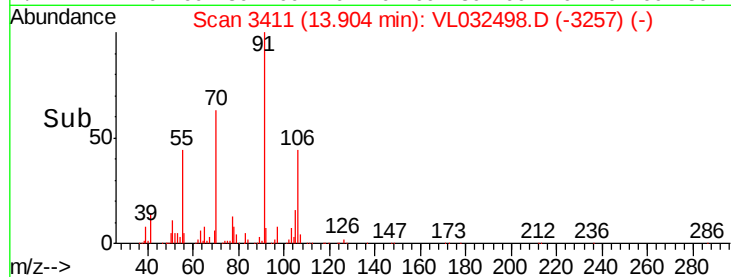
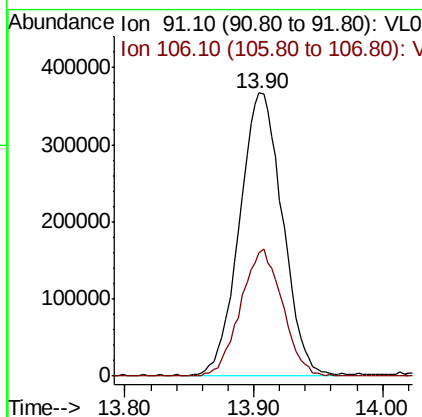
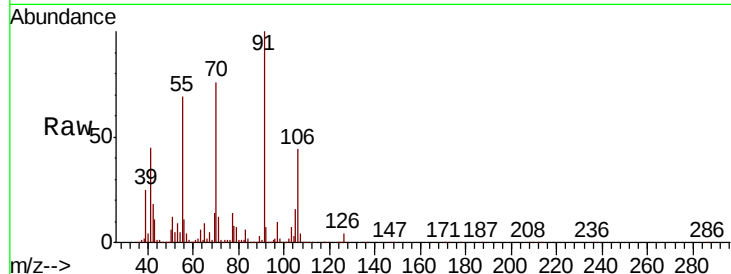




#60
o-Xylene
Concen: 2.577 ppbv
RT: 13.90 min Scan# 3411
Delta R.T. -0.01 min
Lab File: VL032498.D
Acq: 11 Sep 2018 4:00

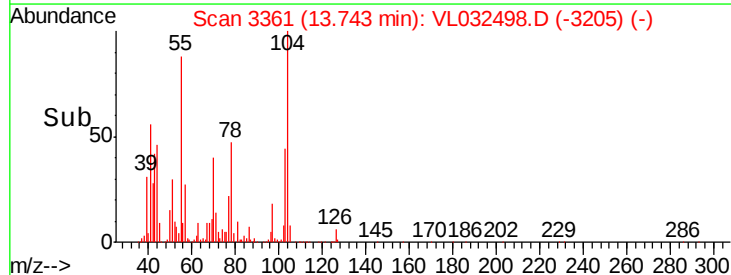
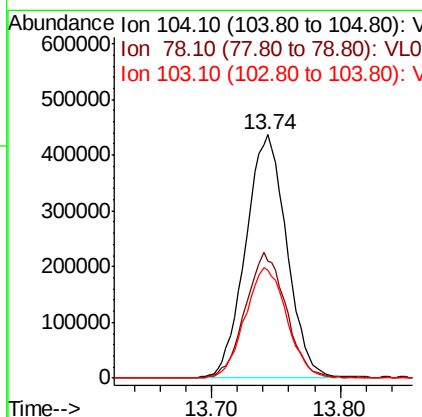
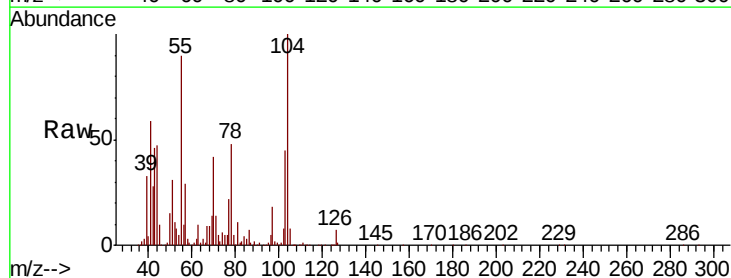
Instrument :
MSVOA_L
ClientSampleId :
255-BERRY

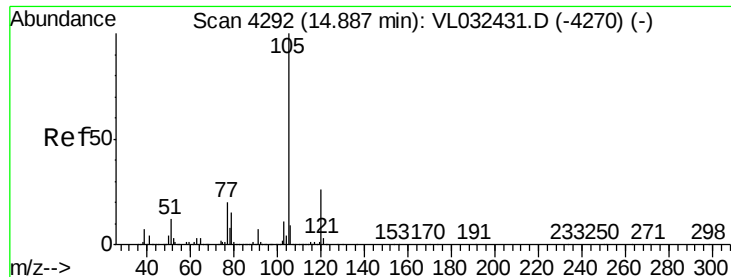
Tgt Ion: 91 Resp: 849280
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.7



#61
Styrene
Concen: 4.550 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: 2.079 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 :

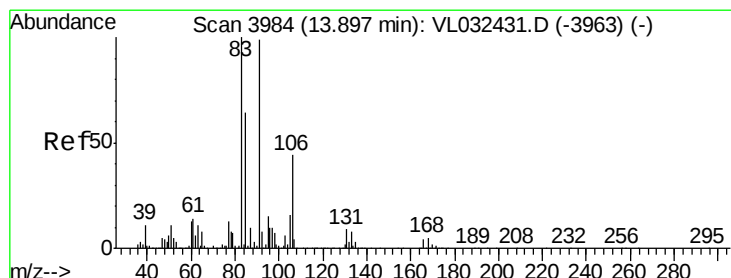
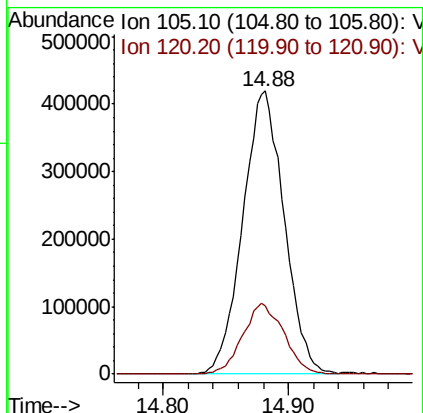
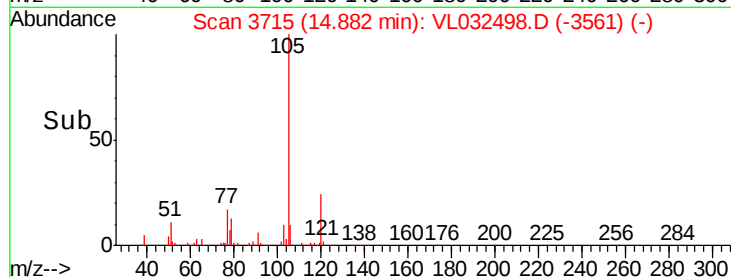
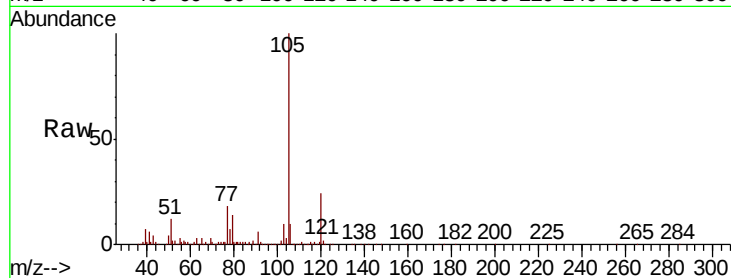
255-BERRY

Tgt Ion: 105 Resp: 963184

Ion Ratio Lower Upper

105 100

120 24.8 20.6 31.0



#63

1,1,2,2-Tetrachloroethane

Concen: 0.131 ppbv

RT: 13.89 min Scan# 3407

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

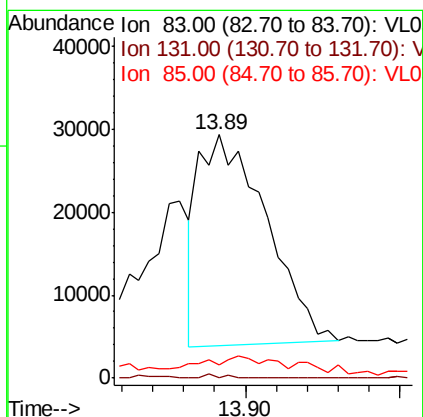
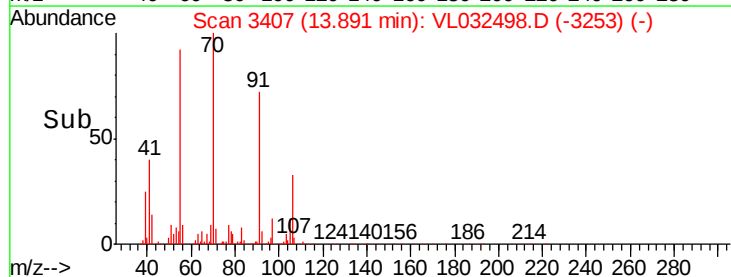
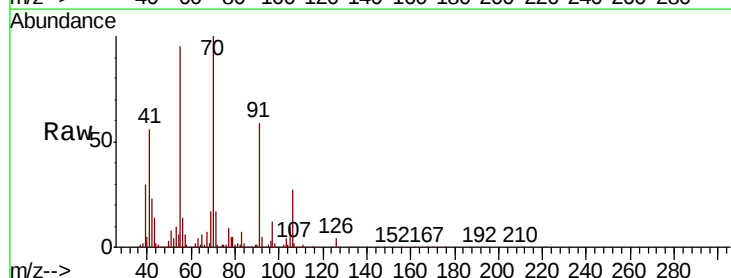
Tgt Ion: 83 Resp: 38516

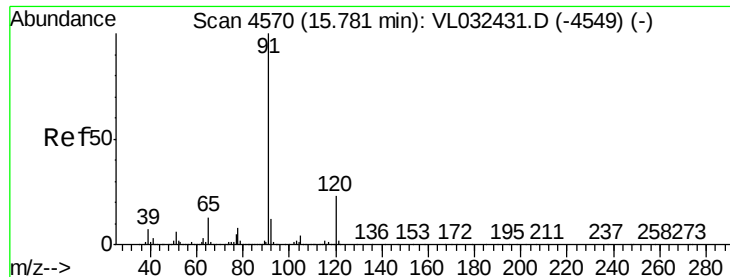
Ion Ratio Lower Upper

83 100

131 0.4 4.3 12.8#

85 13.0 32.3 96.8#





#64

n-propylbenzene

Concen: 0.144 ppbv

RT: 15.78 min Scan# 3995

Delta R.T. 0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

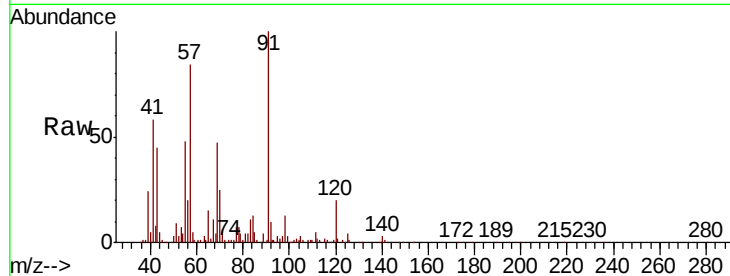
255-BERRY

Tgt Ion:120 Resp: 17485

Ion Ratio Lower Upper

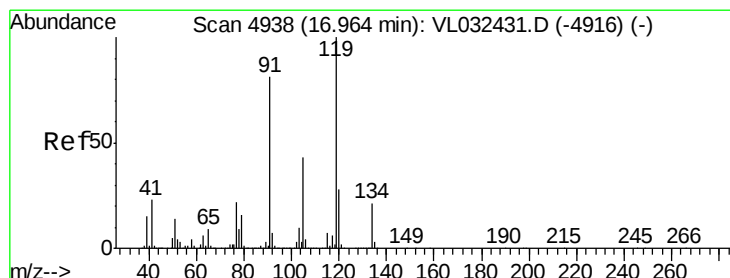
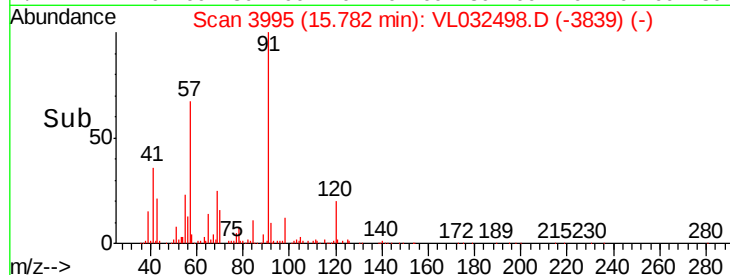
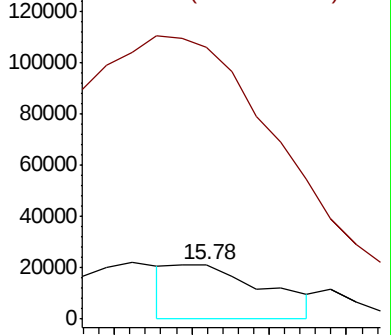
120 100

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



#65

tert-Butylbenzene

Concen: 0.113 ppbv

RT: 16.97 min Scan# 4365

Delta R.T. 0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

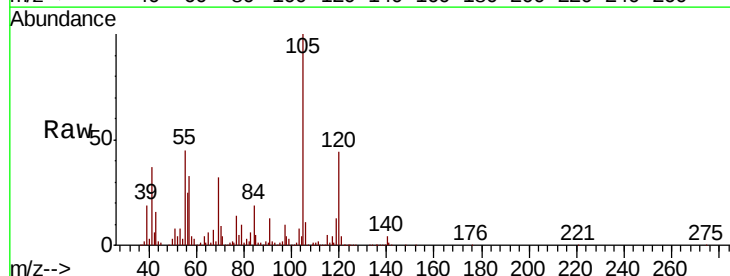
Tgt Ion:119 Resp: 45220

Ion Ratio Lower Upper

119 100

91 249.7 66.5 99.7#

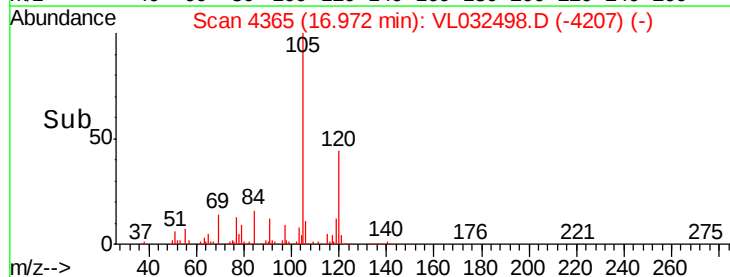
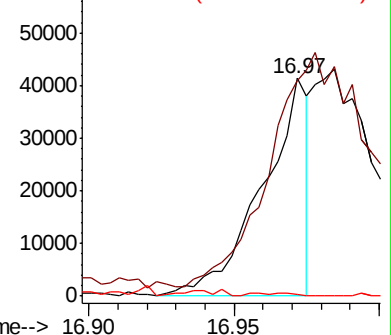
134 2.2 16.0 24.0#

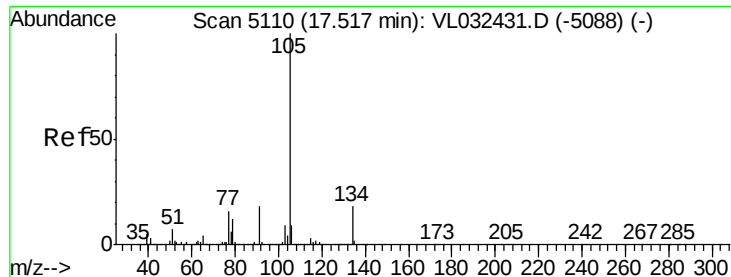


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.031 ppbv

RT: 17.55 min Scan# 4544

Delta R.T. 0.03 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

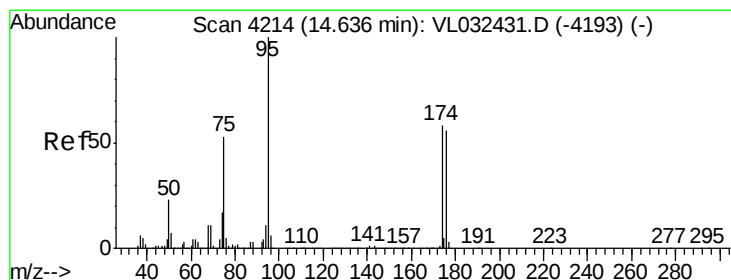
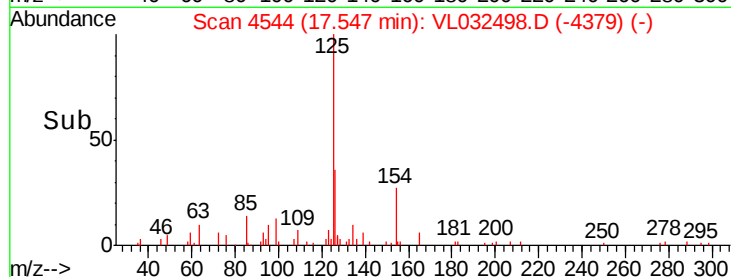
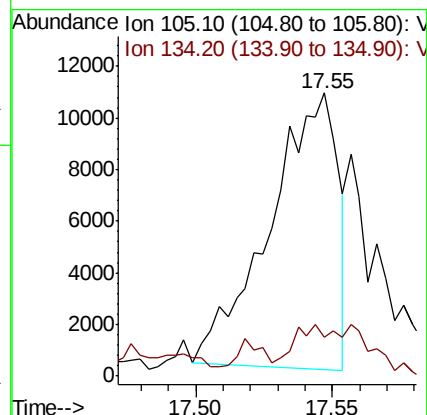
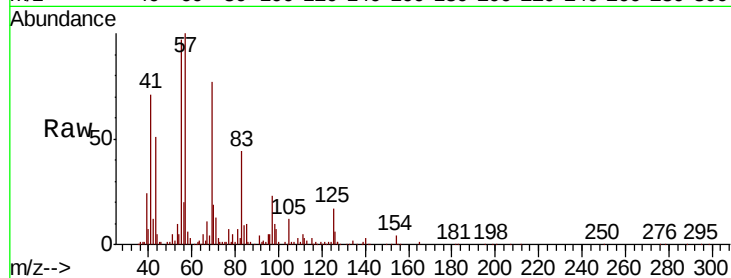
255-BERRY

Tgt Ion: 105 Resp: 18569

Ion Ratio Lower Upper

105 100

134 26.3 14.4 21.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.200 ppbv

RT: 14.63 min Scan# 3638

Delta R.T. -0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

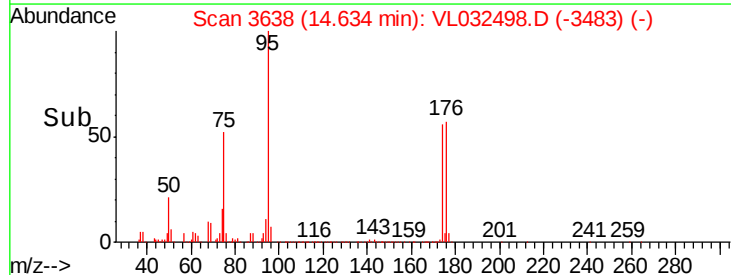
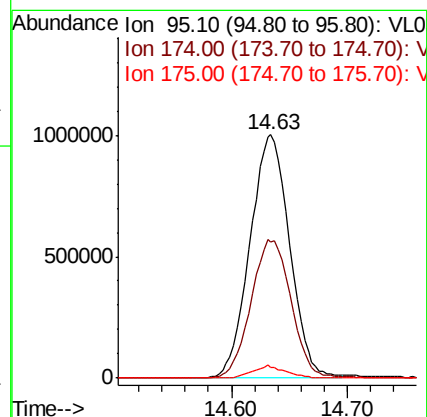
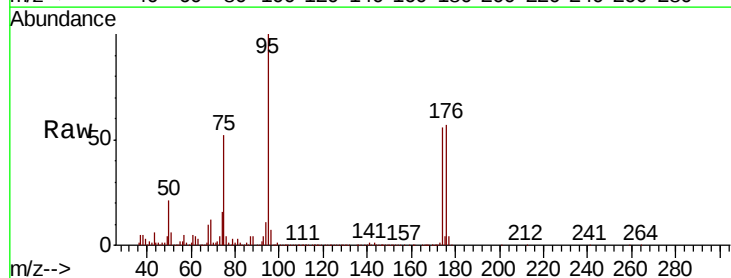
Tgt Ion: 95 Resp: 2381533

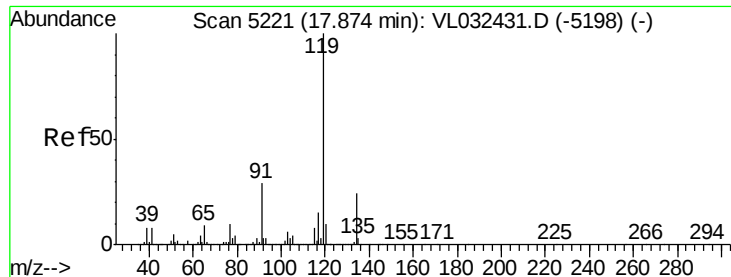
Ion Ratio Lower Upper

95 100

174 58.1 46.3 69.5

175 4.4 3.4 5.0

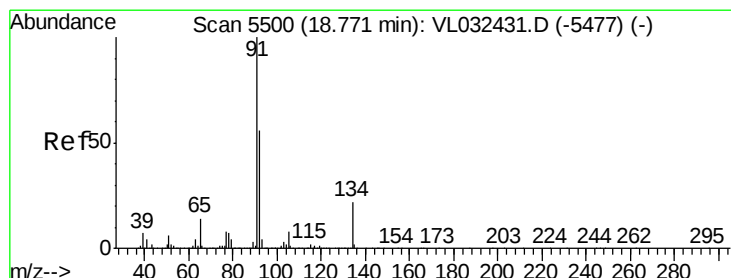
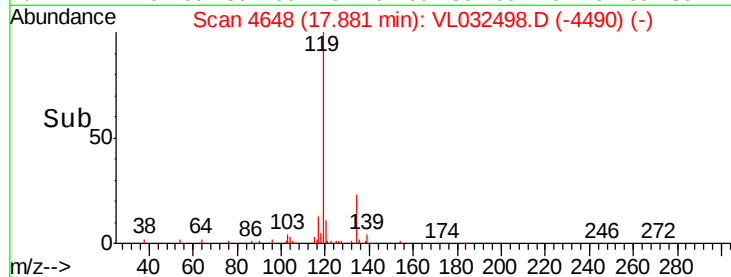
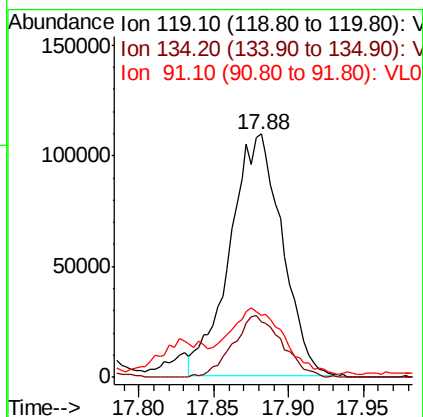
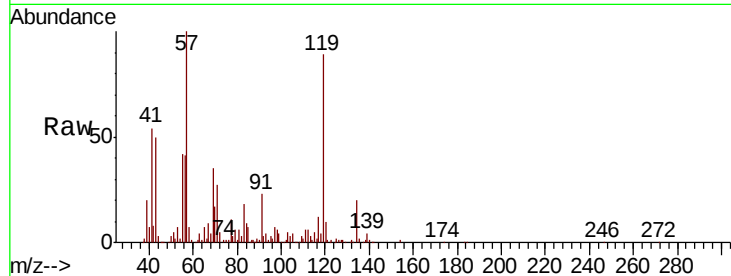




#69
 p-Isopropyltoluene
 Concen: 0.569 ppbv
 RT: 17.88 min Scan# 4648
 Delta R.T. 0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

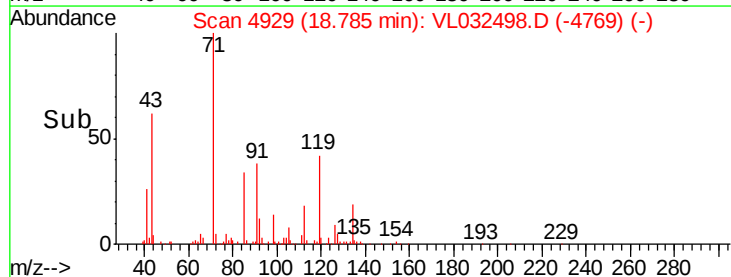
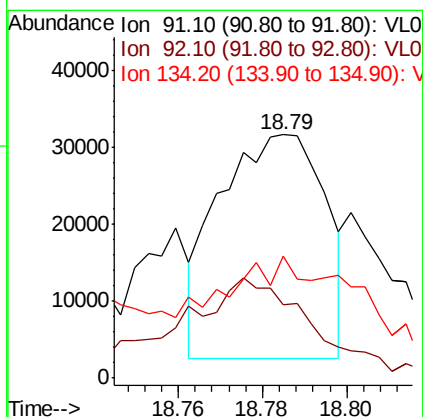
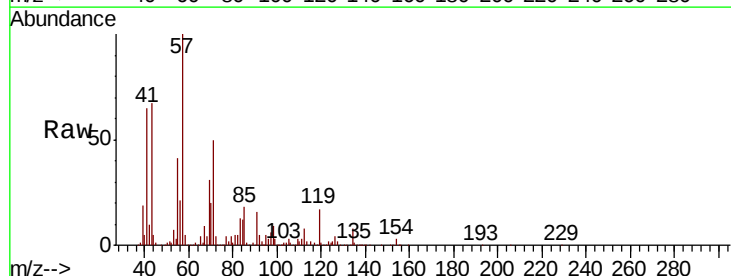
Instrument :
 MSVOA_L
 ClientSampleId :
 255-BERRY

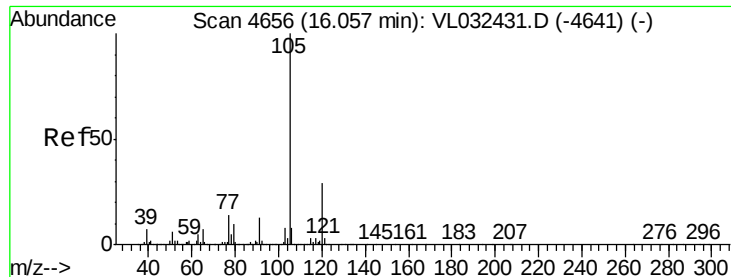
Tgt Ion: 119 Resp: 264870
 Ion Ratio Lower Upper
 119 100
 134 24.0 20.4 30.6
 91 40.8 23.4 35.2#



#70
 n-Butylbenzene
 Concen: 0.096 ppbv
 RT: 18.79 min Scan# 4929
 Delta R.T. 0.01 min
 Lab File: VL032498.D
 Acq: 11 Sep 2018 4:00

Tgt Ion: 91 Resp: 50806
 Ion Ratio Lower Upper
 91 100
 92 62.1 43.8 65.8
 134 120.1 17.4 26.0#





#72

4-Ethyltoluene

Concen: 0.856 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

Tgt Ion:105 Resp: 308101

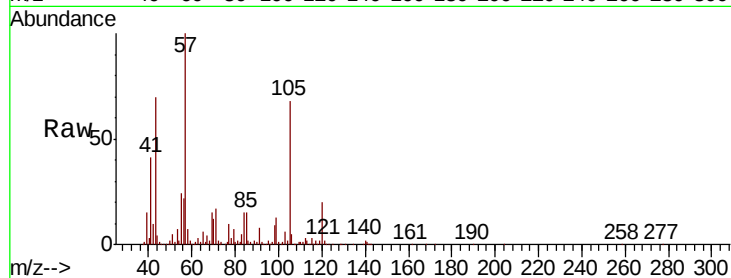
Ion Ratio Lower Upper

105 100

120 27.8 23.5 35.3

91 12.7 10.2 15.2

77 15.7 11.1 16.7

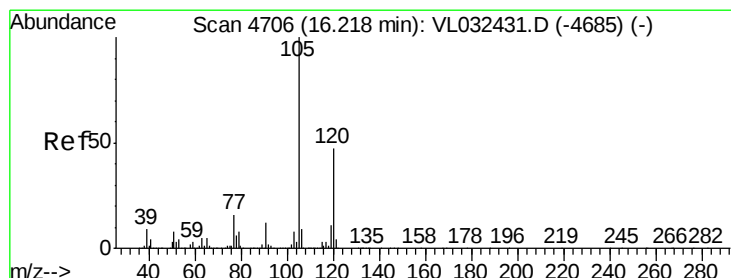
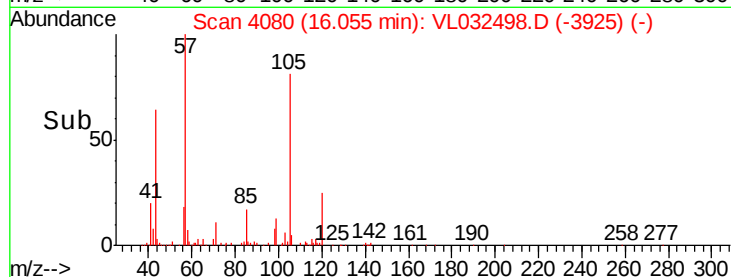
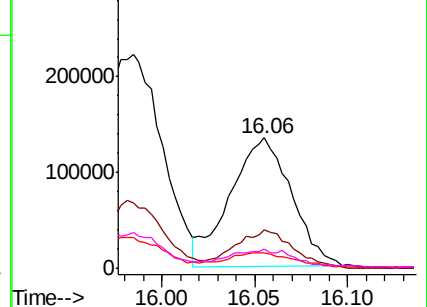


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.716 ppbv

RT: 16.21 min Scan# 4128

Delta R.T. -0.01 min

Lab File: VL032498.D

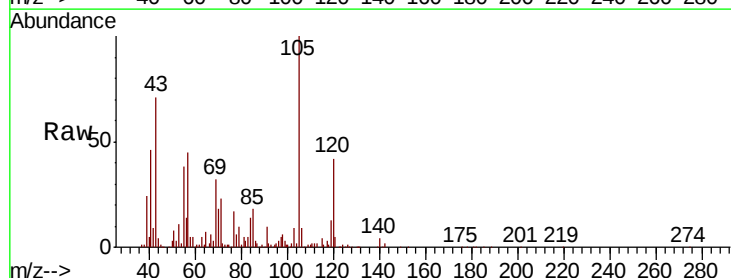
Acq: 11 Sep 2018 4:00

Tgt Ion:105 Resp: 258063

Ion Ratio Lower Upper

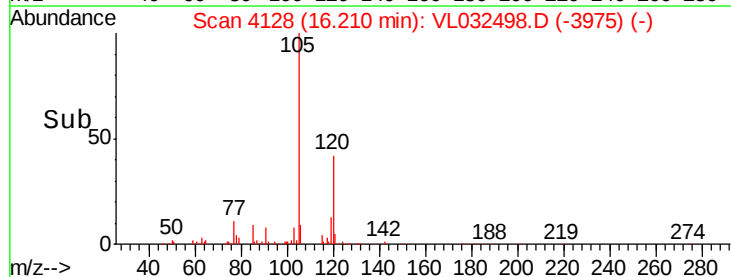
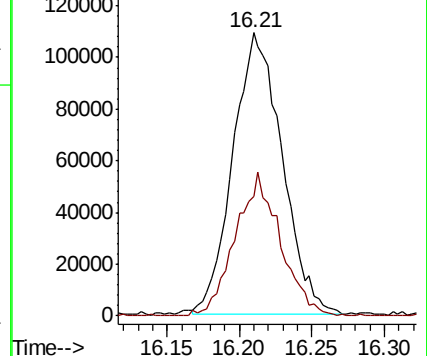
105 100

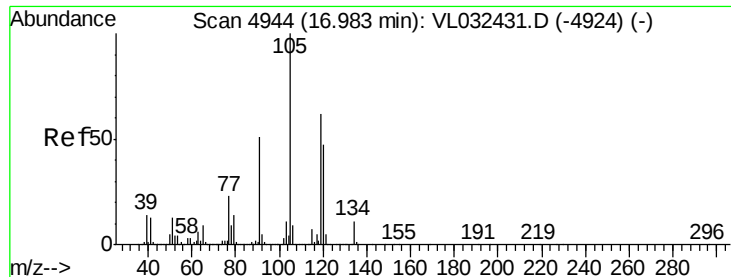
120 41.8 37.9 56.9



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: 2.502 ppbv

RT: 16.98 min Scan# 4368

Delta R.T. -0.00 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

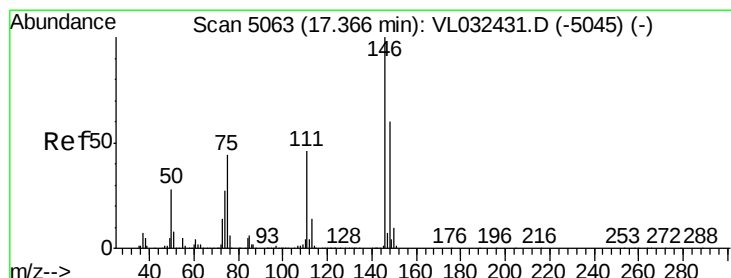
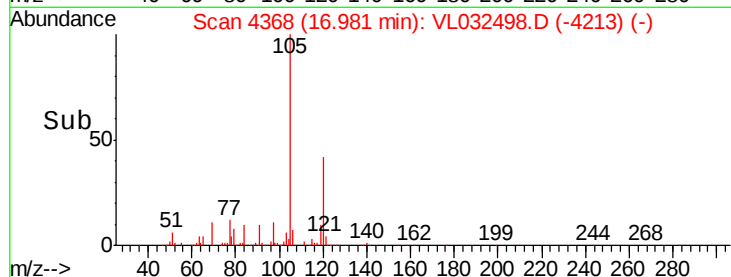
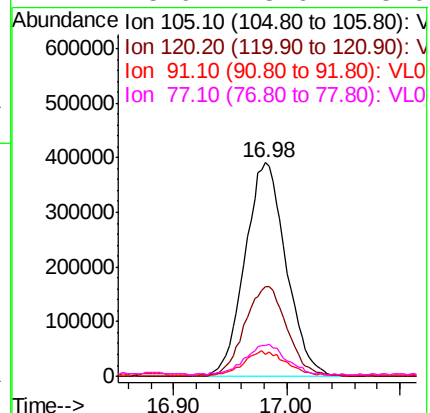
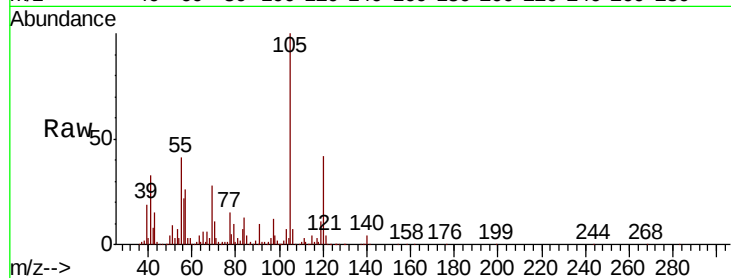
Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

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



#76

1,4-Dichlorobenzene

Concen: 0.032 ppbv

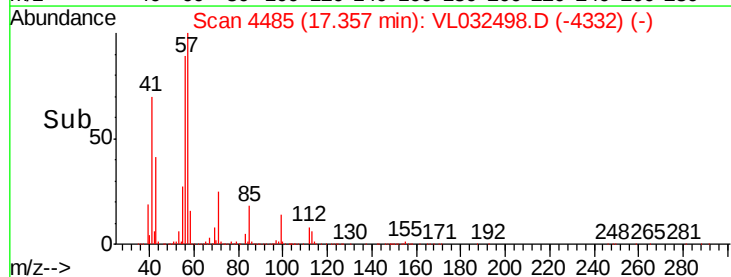
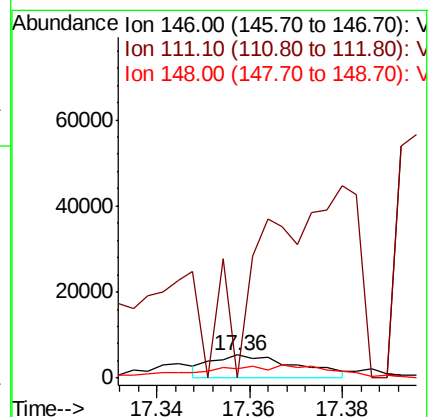
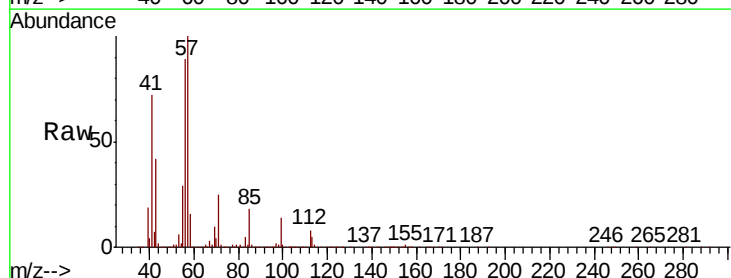
RT: 17.36 min Scan# 4485

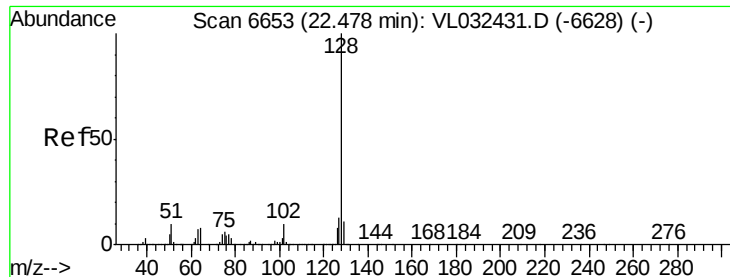
Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Tgt Ion:	146	Resp:	6938
Ion Ratio		Lower	Upper
146	100		
111	0.0	23.4	70.2#
148	99.2	32.0	96.2#





#79

Naphthalene

Concen: 0.451 ppbv

RT: 22.47 min Scan# 6076

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

Instrument :

MSVOA_L

ClientSampleId :

255-BERRY

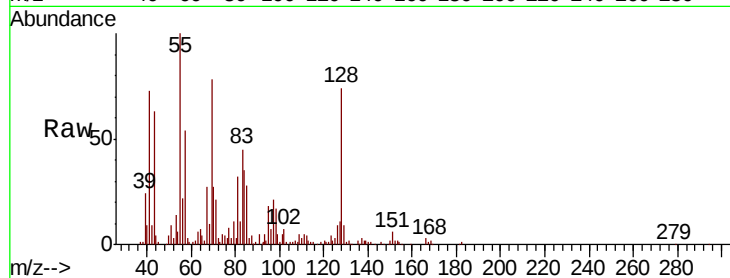
Tgt Ion:128 Resp: 144566

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.2

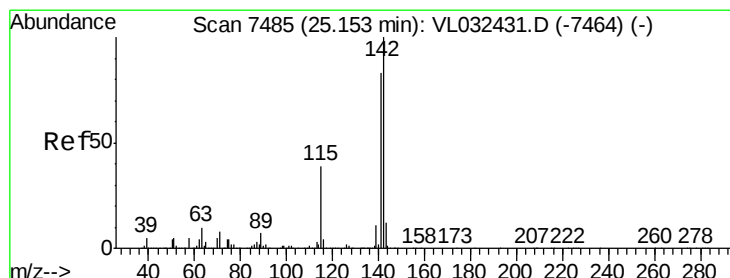
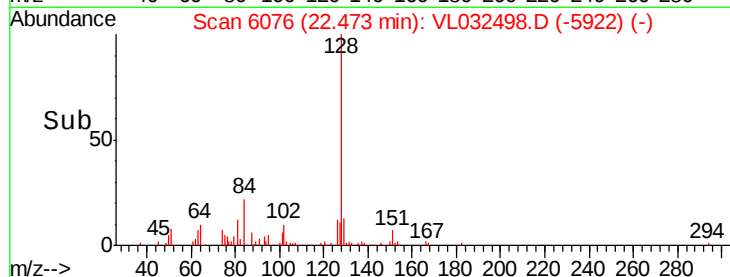
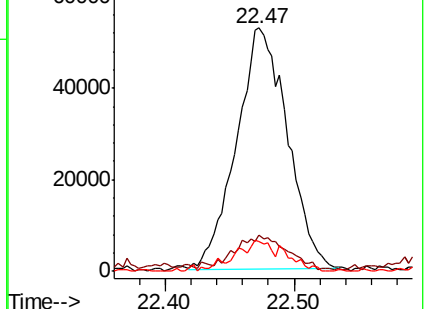
129 11.9 8.5 12.7



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.175 ppbv

RT: 25.15 min Scan# 6908

Delta R.T. -0.01 min

Lab File: VL032498.D

Acq: 11 Sep 2018 4:00

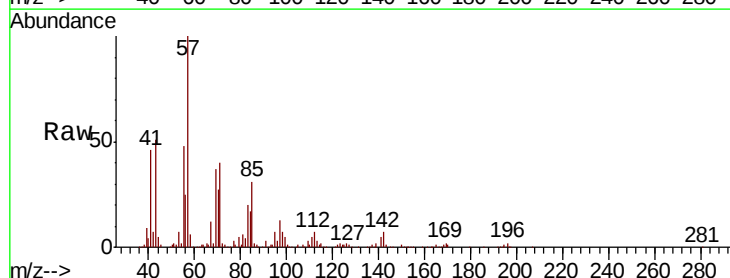
Tgt Ion:142 Resp: 14915

Ion Ratio Lower Upper

142 100

141 117.2 67.0 100.6#

115 59.2 31.3 46.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

