

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032485.D
 Acq On : 10 Sep 2018 19:26
 Operator : SY/AP
 Sample : J4820-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 239-BERRY

Quant Time: Sep 11 01:11:14 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	5.80	49	1483980	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3466575	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.28	117	3122797	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2363918	10.20	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

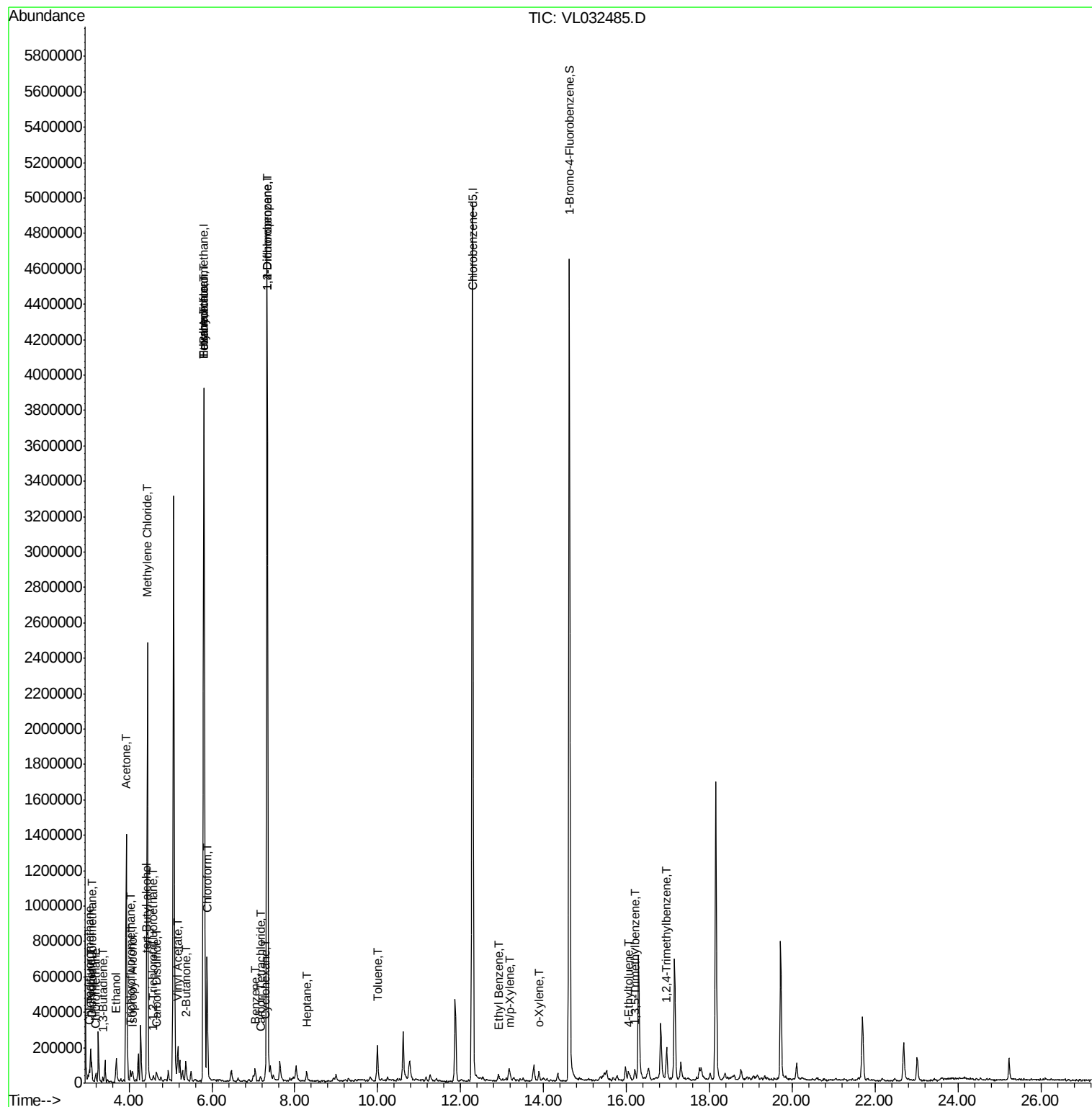
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	74851	0.394	ppbv	99
3) Chlorodifluoromethane	3.04	51	77381	0.576	ppbv #	91
4) Chloromethane	3.20	50	40394	0.497	ppbv	92
9) Propene	3.07	41	34574	0.638	ppbv #	80
10) Heptane	8.28	43	7554	0.039	ppbv #	28
11) Trichlorofluoromethane	4.03	101	22657	0.132	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.58	101	6070	0.052	ppbv #	17
13) Ethanol	3.69	45	152115	9.006	ppbv	92
15) Acetone	3.93	43	1412364	10.569	ppbv	99
16) 1,3-Butadiene	3.37	39	3683	0.059	ppbv #	34
17) tert-Butyl alcohol	4.41	59	6546	0.318	ppbv #	100
19) Isopropyl Alcohol	4.07	45	26757	0.305	ppbv #	93
20) Methylene Chloride	4.44	84	868035	17.035	ppbv	96
23) Vinyl Acetate	5.18	43	91690	0.414	ppbv #	62
25) Ethyl Acetate	5.82	43	666312	2.111	ppbv #	78
26) Hexane	5.82	57	910945	6.447	ppbv #	45
27) Carbon Disulfide	4.66	76	34955	0.268	ppbv #	68
29) Chloroform	5.89	83	485854	2.255	ppbv	98
30) Cyclohexane	7.29	84	3482	0.034	ppbv #	1
34) 2-Butanone	5.37	43	112513	0.489	ppbv	99
35) Carbon Tetrachloride	7.17	117	14627	0.063	ppbv	91
36) Benzene	7.04	78	30329	0.103	ppbv	93
39) 1,2-Dichloropropane	7.33	63	954460	7.562	ppbv #	25
41) Tetrahydrofuran	5.82	42	348337	2.779	ppbv #	52
53) Toluene	9.99	91	124950	0.405	ppbv	98
58) Ethyl Benzene	12.91	91	13044	0.035	ppbv	90
59) m/p-Xylene	13.19	91	13646	0.041	ppbv #	31
60) o-Xylene	13.89	91	23629	0.072	ppbv #	60
72) 4-Ethyltoluene	16.05	105	17301	0.048	ppbv #	64
73) 1,3,5-Trimethylbenzene	16.20	105	35823	0.100	ppbv	100
74) 1,2,4-Trimethylbenzene	16.97	105	111795	0.286	ppbv #	71

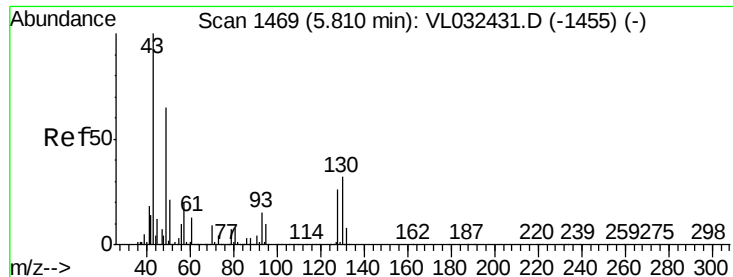
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 31 21:33:46 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

239-BERRY

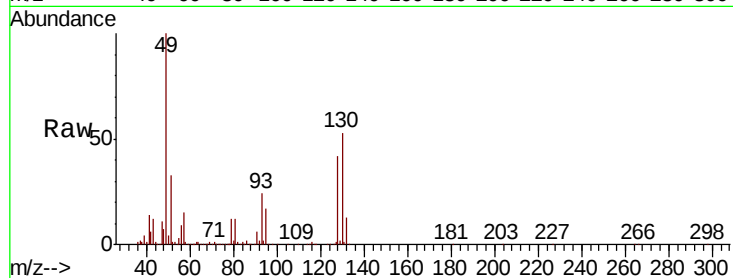
Tgt Ion: 49 Resp: 1483980

Ion Ratio Lower Upper

49 100

128 41.9 20.7 62.1

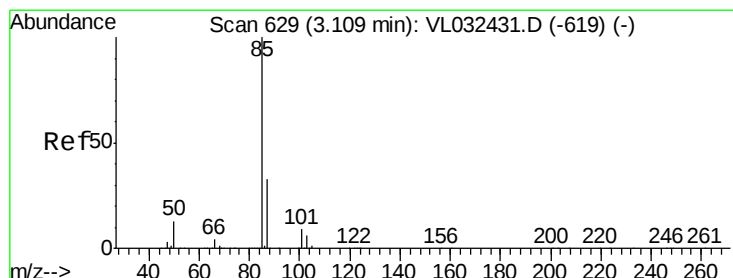
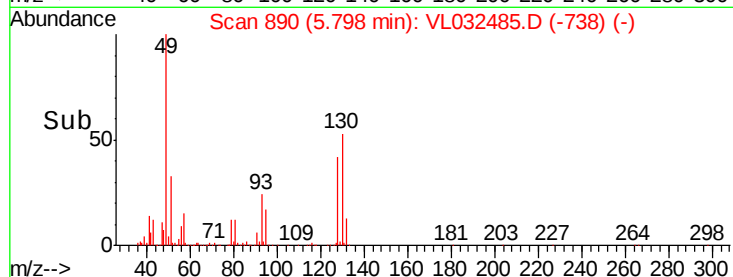
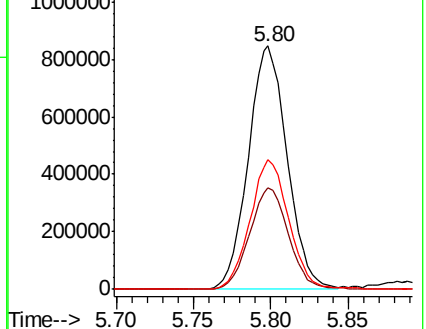
130 53.5 26.6 79.7



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: 0.394 ppbv

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032485.D

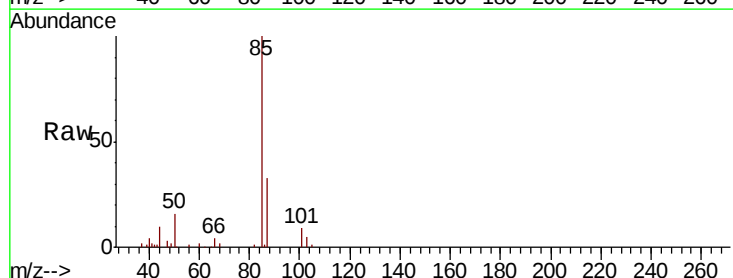
Acq: 10 Sep 2018 19:26

Tgt Ion: 85 Resp: 74851

Ion Ratio Lower Upper

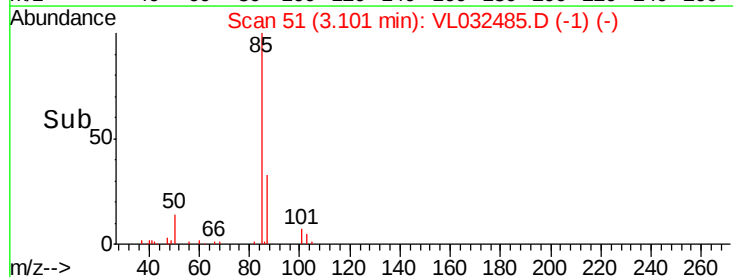
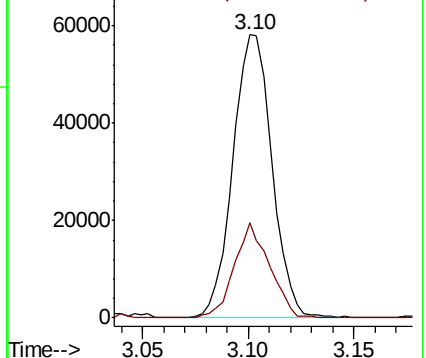
85 100

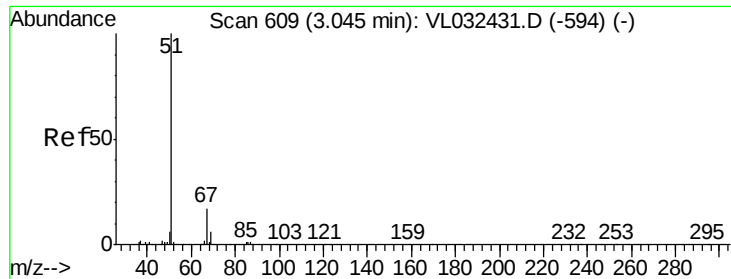
87 33.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.576 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

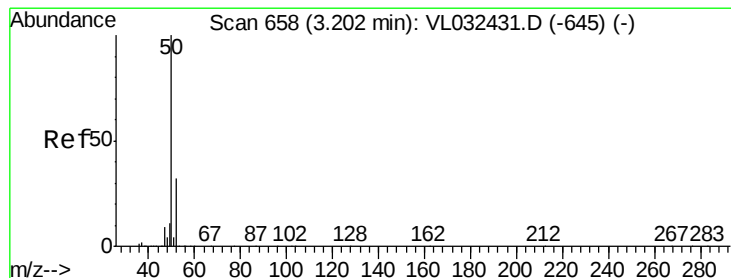
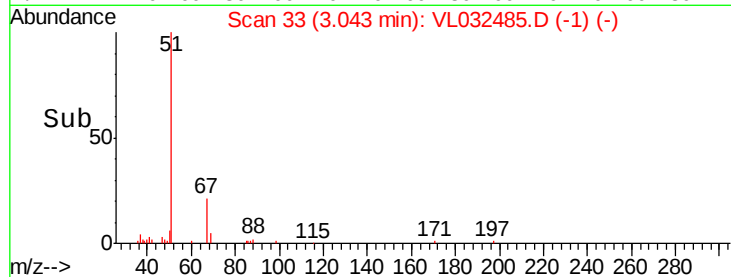
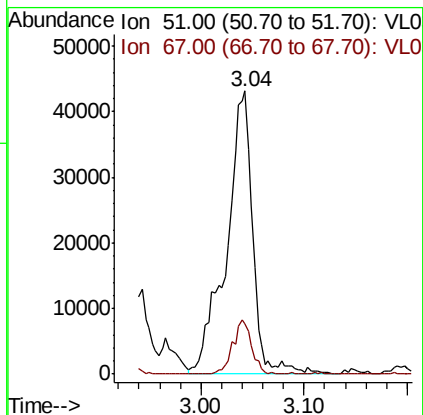
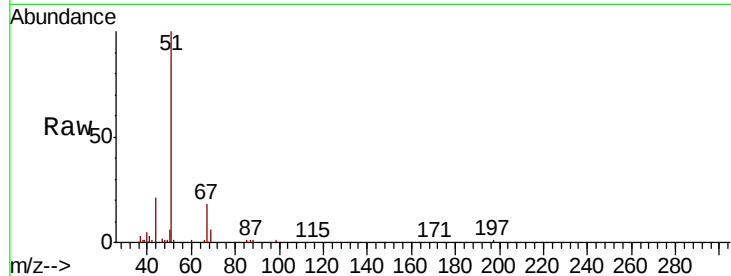
239-BERRY

Tgt Ion: 51 Resp: 77381

Ion Ratio Lower Upper

51 100

67 13.5 13.8 20.8#



#4

Chloromethane

Concen: 0.497 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL032485.D

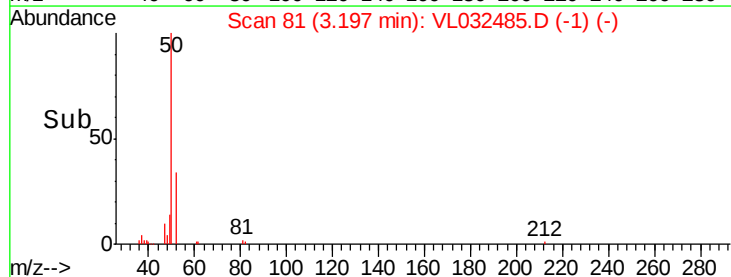
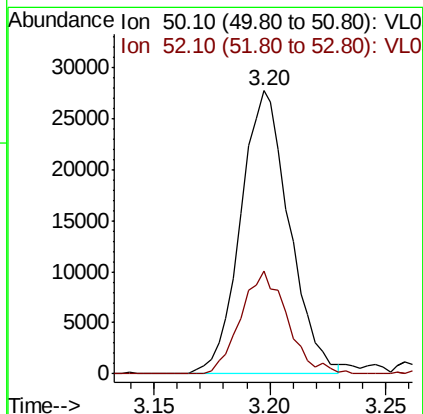
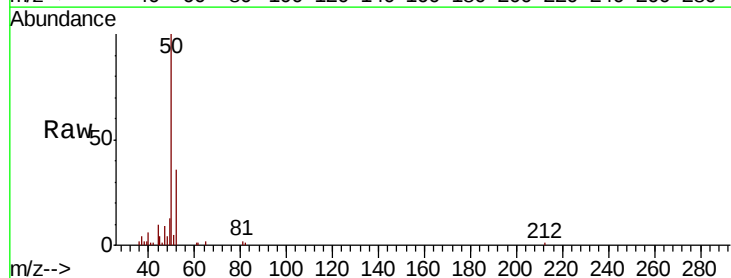
Acq: 10 Sep 2018 19:26

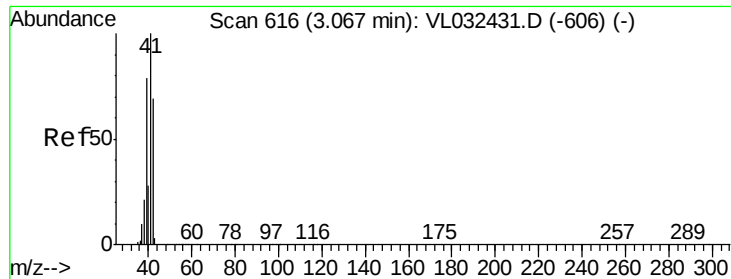
Tgt Ion: 50 Resp: 40394

Ion Ratio Lower Upper

50 100

52 36.5 25.6 38.4





#9

Propene

Concen: 0.638 ppbv

RT: 3.07 min Scan# 42

Delta R.T. 0.00 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

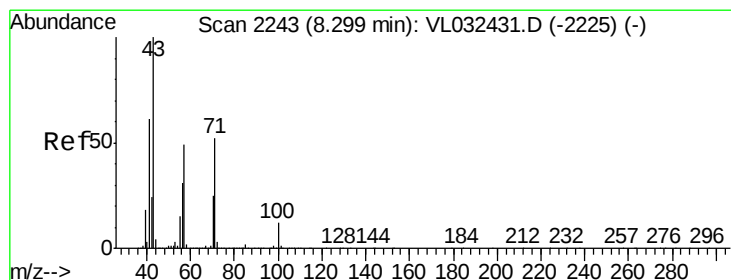
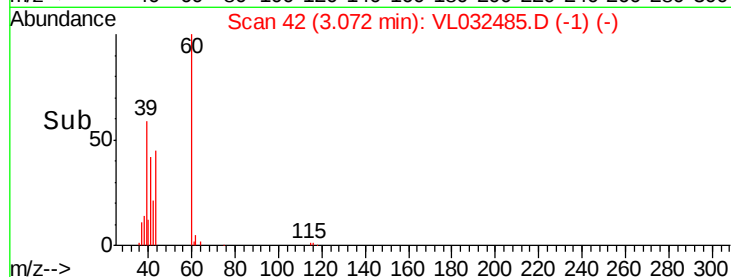
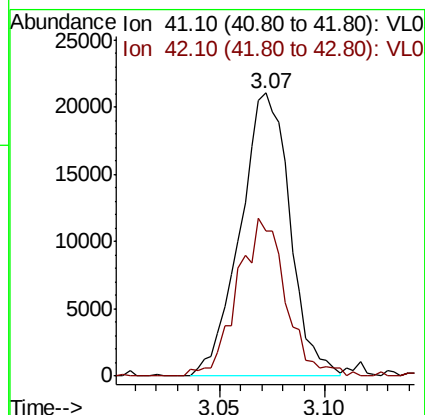
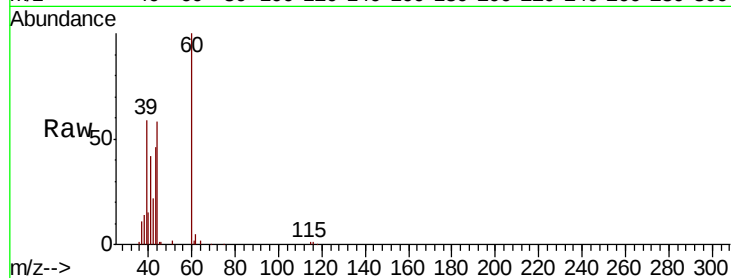
239-BERRY

Tgt Ion: 41 Resp: 34574

Ion Ratio Lower Upper

41 100

42 54.3 56.6 84.8#



#10

Heptane

Concen: 0.039 ppbv

RT: 8.28 min Scan# 1662

Delta R.T. -0.02 min

Lab File: VL032485.D

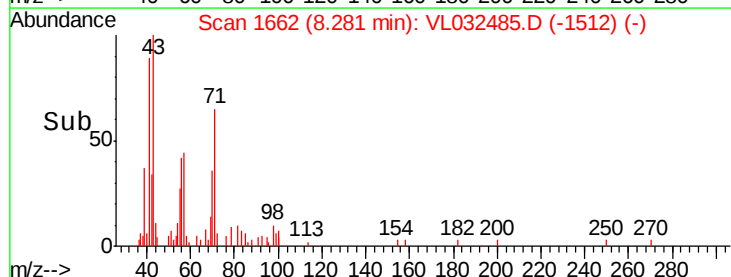
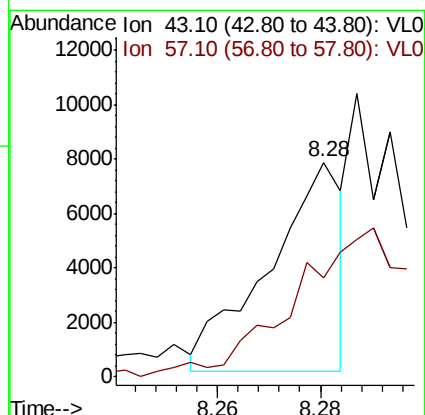
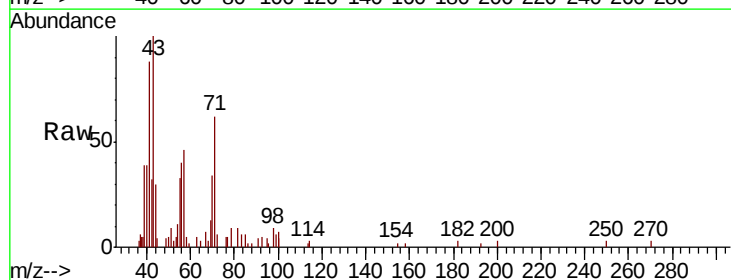
Acq: 10 Sep 2018 19:26

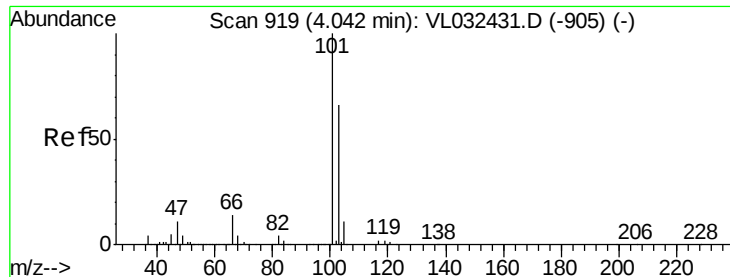
Tgt Ion: 43 Resp: 7554

Ion Ratio Lower Upper

43 100

57 0.0 39.6 59.4#

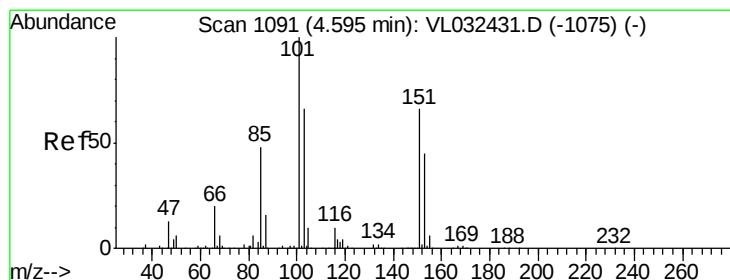
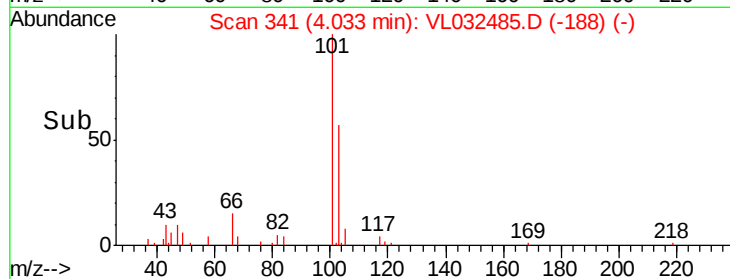
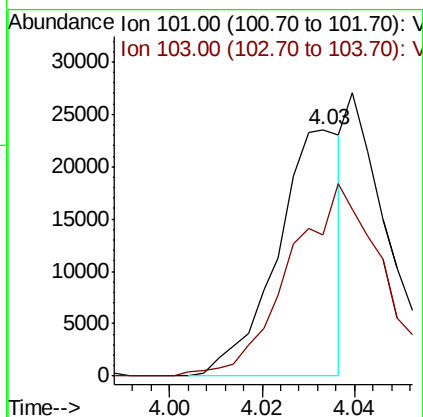
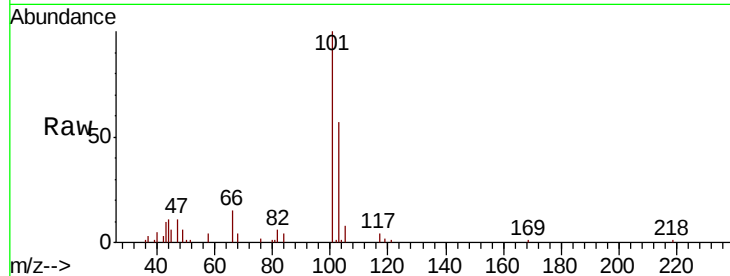




#11
 Trichlorofluoromethane
 Concen: 0.132 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. -0.01 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

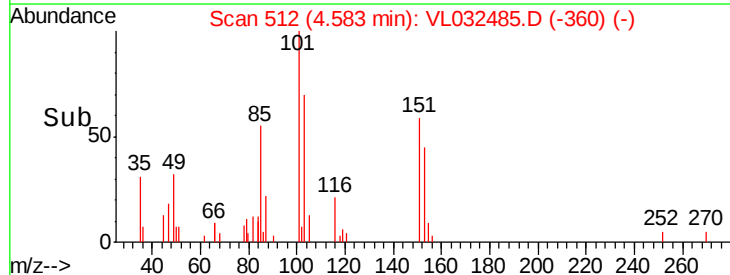
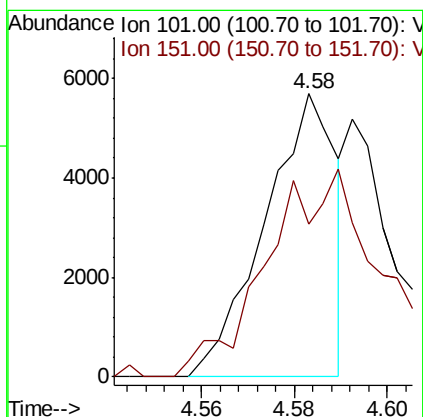
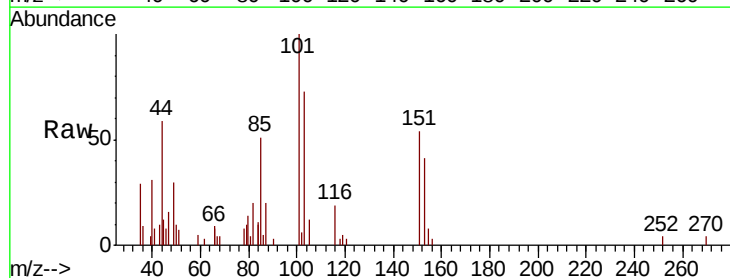
Instrument :
 MSVOA_L
 ClientSampleId :
 239-BERRY

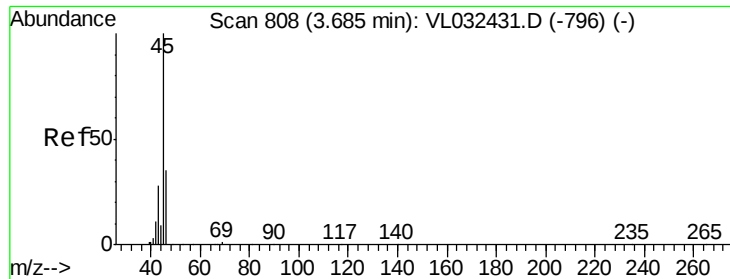
Tgt Ion:101 Resp: 22657
 Ion Ratio Lower Upper
 101 100
 103 55.5 52.8 79.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.052 ppbv
 RT: 4.58 min Scan# 512
 Delta R.T. -0.01 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

Tgt Ion:101 Resp: 6070
 Ion Ratio Lower Upper
 101 100
 151 0.0 52.6 78.8#





#13

Ethanol

Concen: 9.006 ppbv

RT: 3.69 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

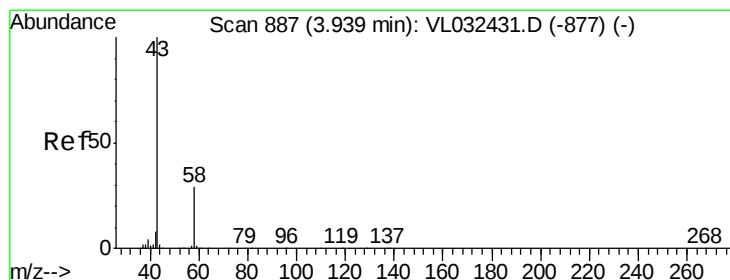
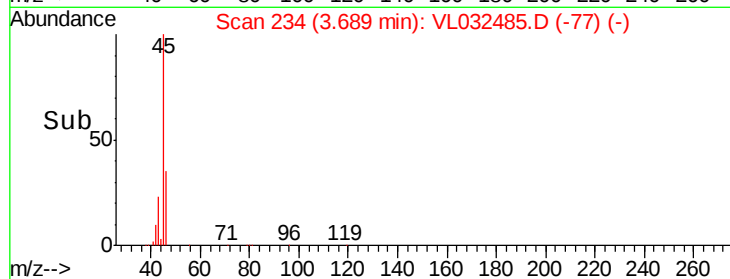
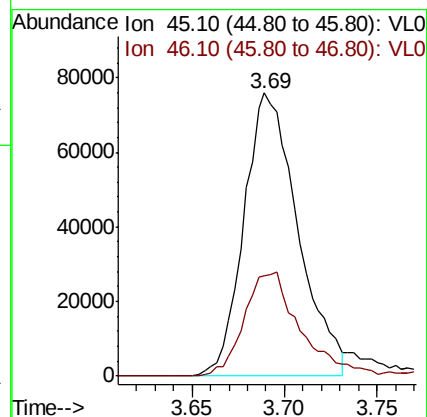
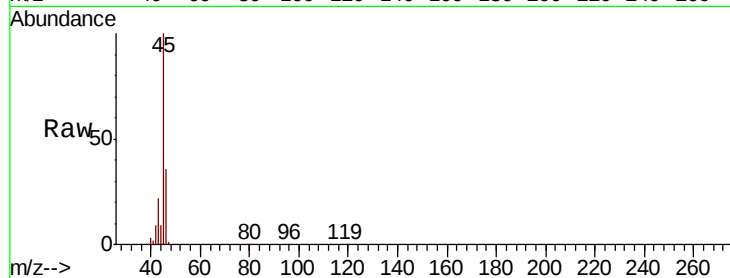
239-BERRY

Tgt Ion: 45 Resp: 152115

Ion Ratio Lower Upper

45 100

46 39.9 14.2 56.8



#15

Acetone

Concen: 10.569 ppbv

RT: 3.93 min Scan# 309

Delta R.T. -0.01 min

Lab File: VL032485.D

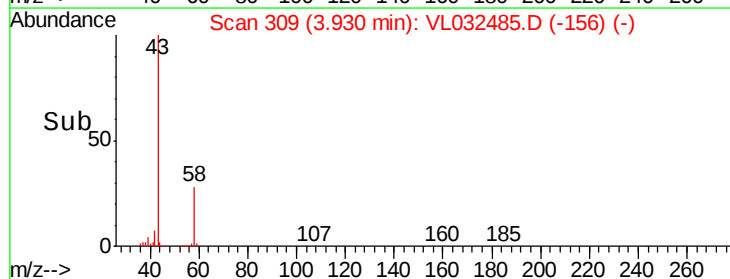
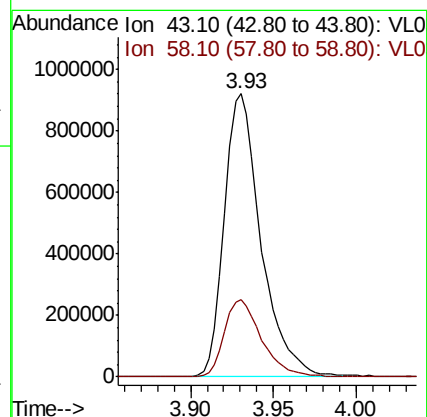
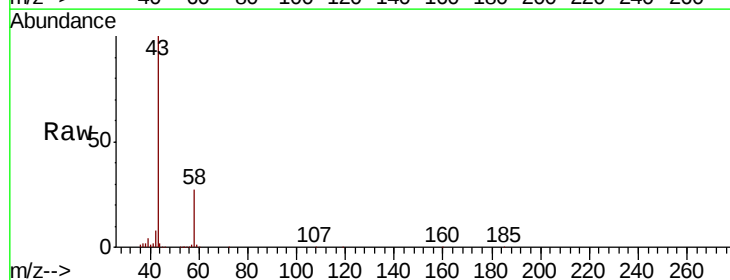
Acq: 10 Sep 2018 19:26

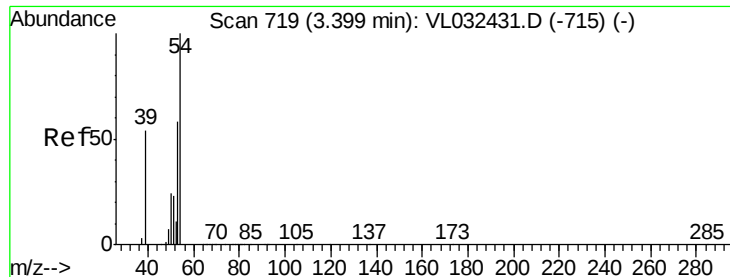
Tgt Ion: 43 Resp: 1412364

Ion Ratio Lower Upper

43 100

58 27.8 22.6 33.8

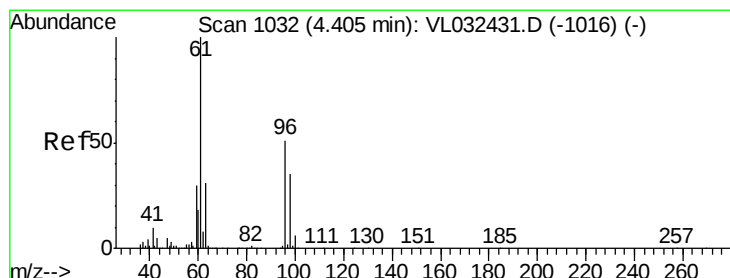
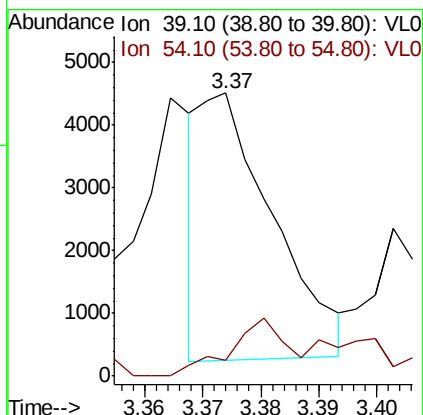
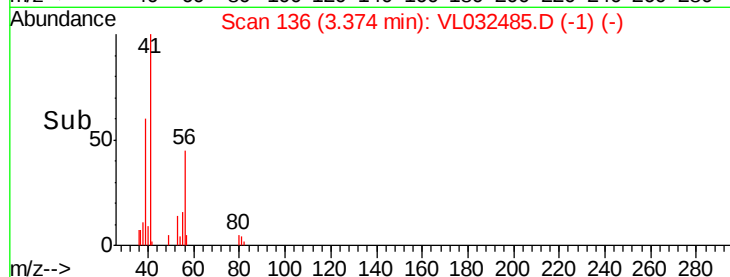
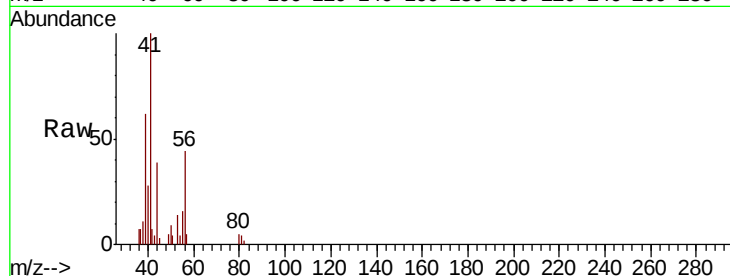




#16
 1,3-Butadiene
 Concen: 0.059 ppbv
 RT: 3.37 min Scan# 136
 Delta R.T. -0.02 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

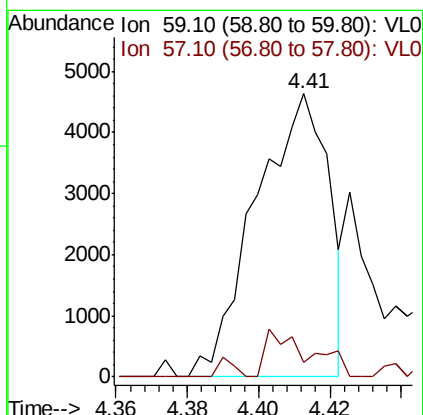
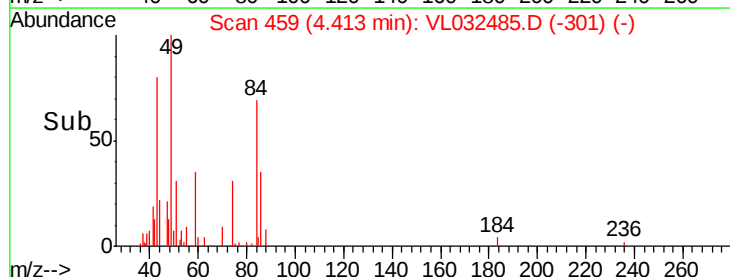
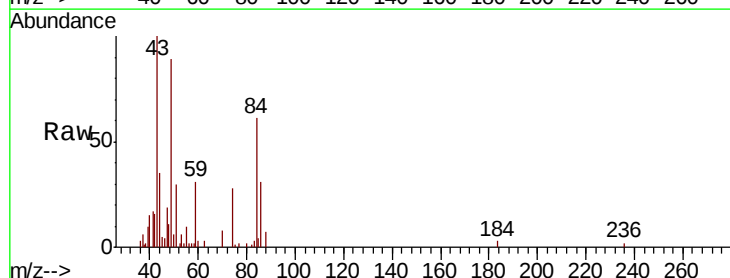
Instrument :
 MSVOA_L
 ClientSampleId :
 239-BERRY

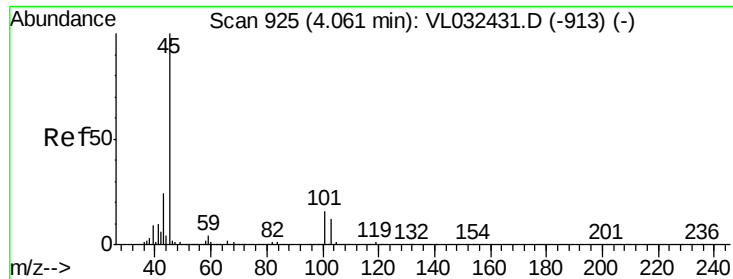
Tgt Ion: 39 Resp: 3683
 Ion Ratio Lower Upper
 39 100
 54 34.2 80.8 121.2#



#17
 tert-Butyl alcohol
 Concen: 0.318 ppbv
 RT: 4.41 min Scan# 459
 Delta R.T. 0.01 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

Tgt Ion: 59 Resp: 6546
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.0 0.0





#19

Isopropyl Alcohol

Concen: 0.305 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

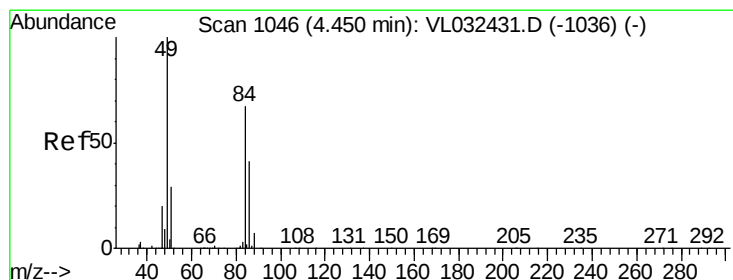
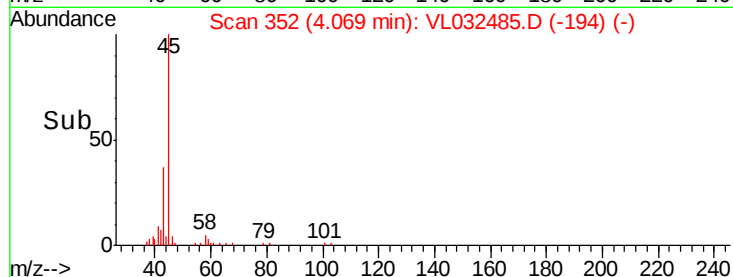
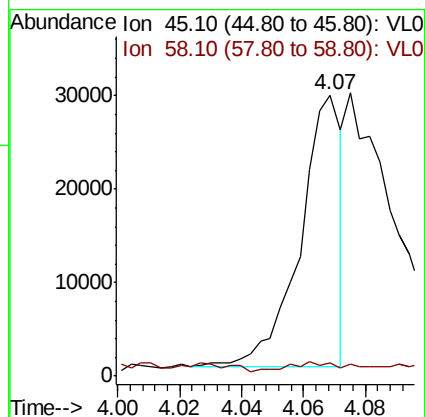
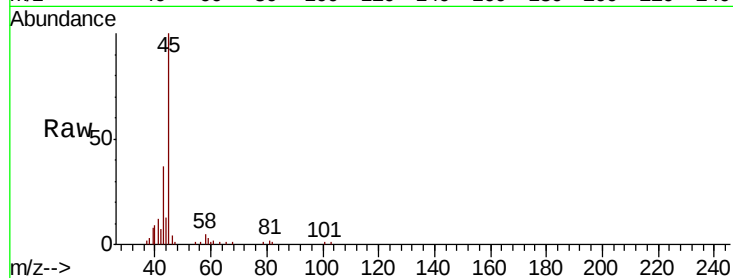
239-BERRY

Tgt Ion: 45 Resp: 26757

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 17.035 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Tgt Ion: 84 Resp: 868035

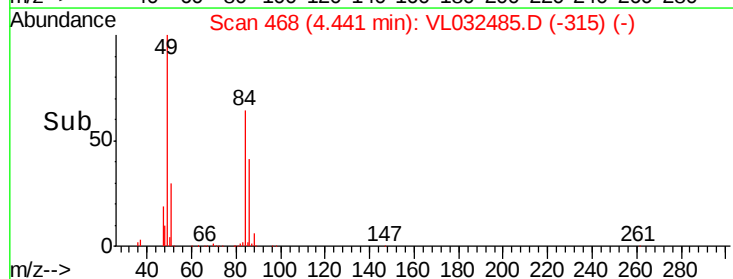
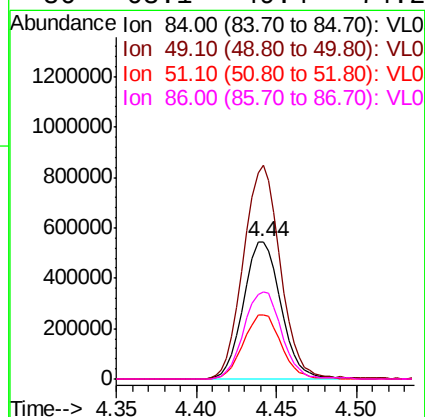
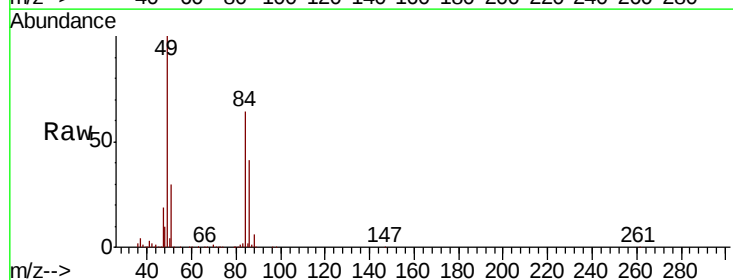
Ion Ratio Lower Upper

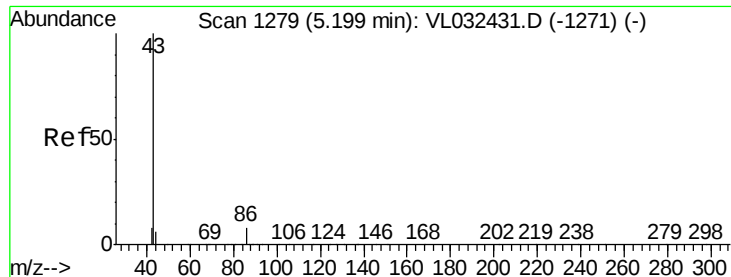
84 100

49 155.6 119.1 178.7

51 46.7 35.2 52.8

86 63.1 49.4 74.2

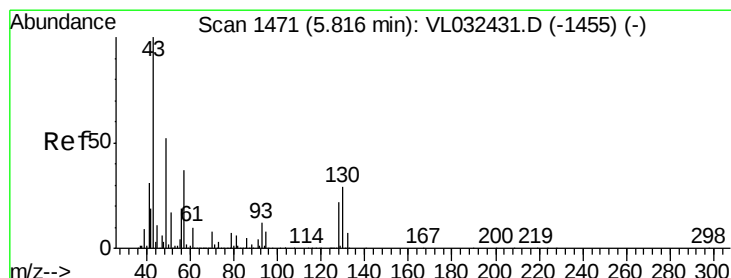
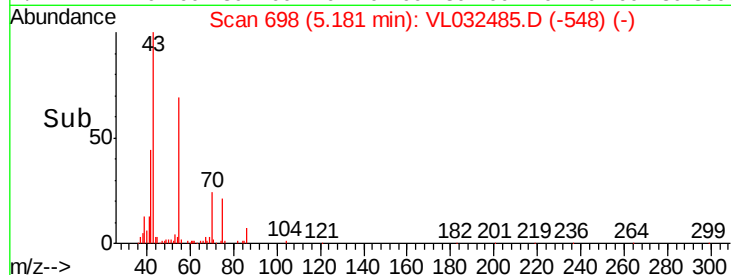
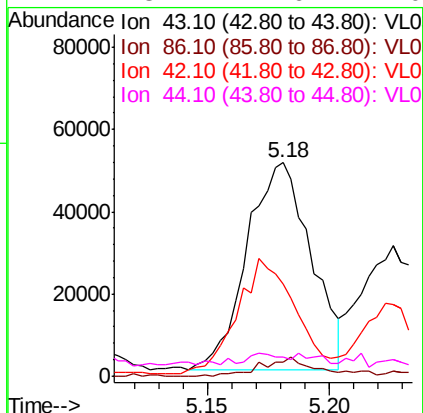
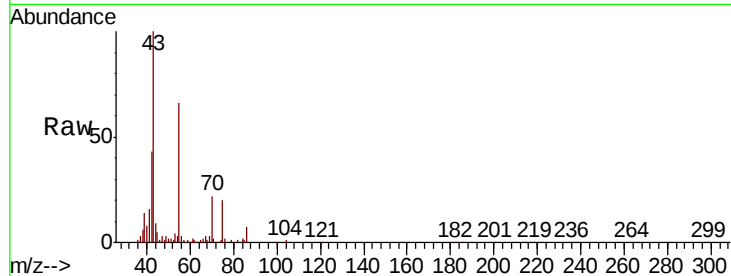




#23
 Vinyl Acetate
 Concen: 0.414 ppbv
 RT: 5.18 min Scan# 698
 Delta R.T. -0.02 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

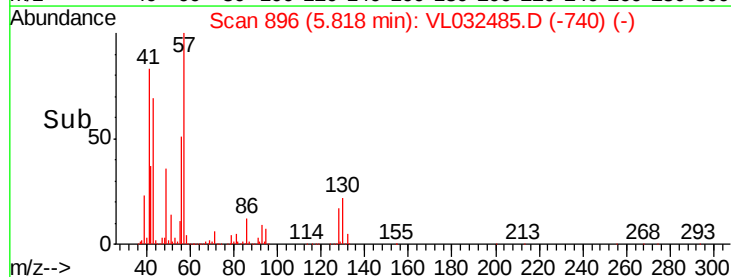
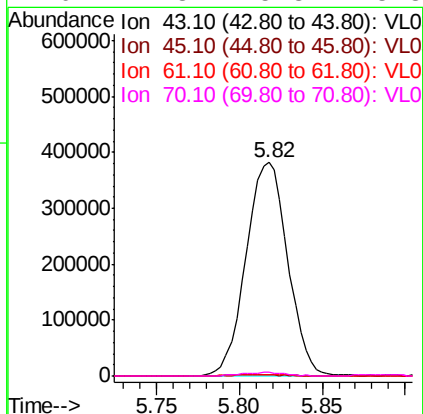
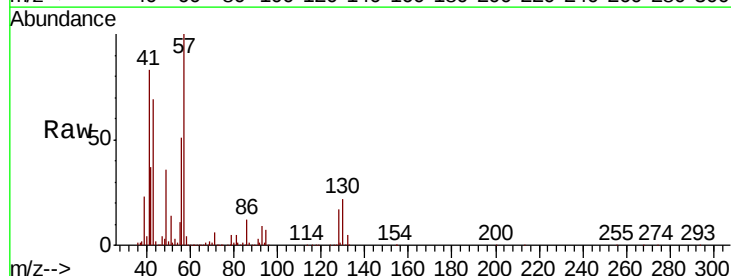
Instrument :
 MSVOA_L
 ClientSampleId :
 239-BERRY

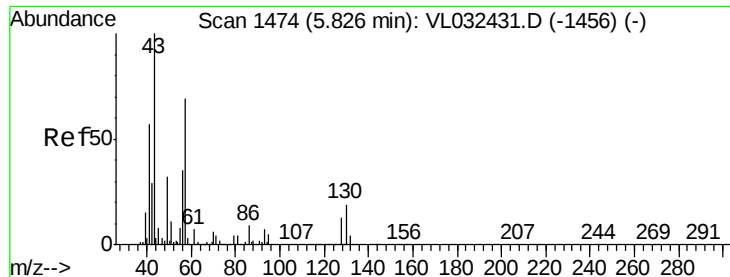
Tgt Ion:	43	Resp:	91690
Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.9	8.9
42	41.4	6.9	10.3#
44	3.4	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 2.111 ppbv
 RT: 5.82 min Scan# 896
 Delta R.T. 0.00 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

Tgt Ion:	43	Resp:	666312
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.0	12.0#
61	0.8	7.6	11.4#
70	1.8	5.8	8.8#

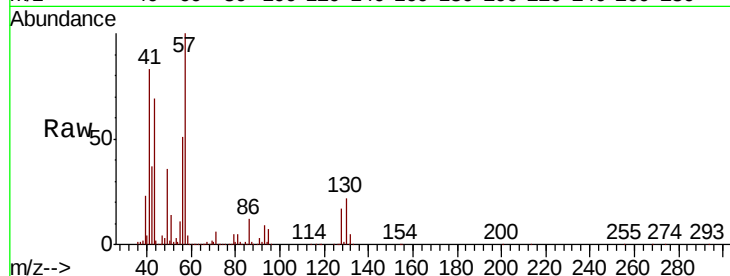




#26
Hexane
Concen: 6.447 ppbv
RT: 5.82 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032485.D
Acq: 10 Sep 2018 19:26

Instrument :
MSVOA_L
ClientSampleId :
239-BERRY

Tgt Ion:	57	Resp:	910945
Ion	Ratio	Lower	Upper
57	100		
41	84.5	69.0	103.4
43	73.4	172.1	258.1#
56	53.9	42.2	63.2



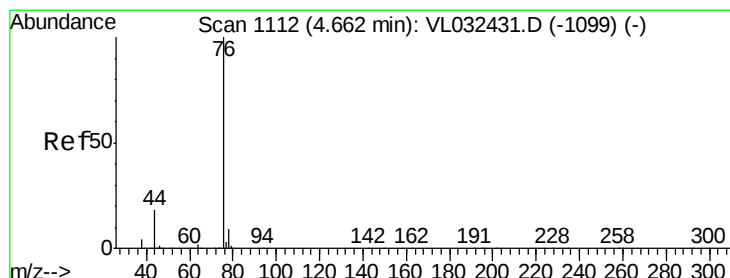
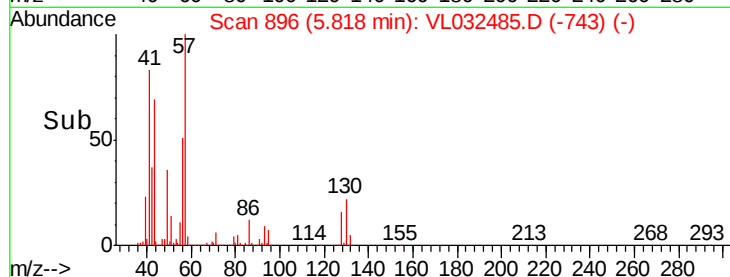
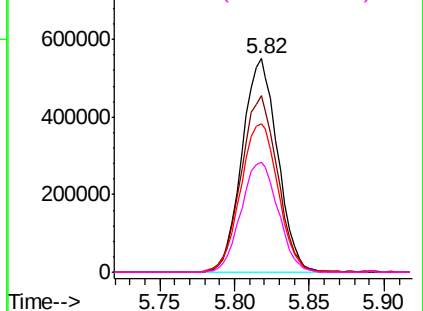
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

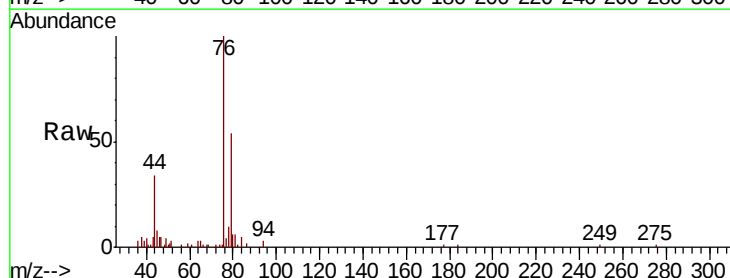
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27
Carbon Disulfide
Concen: 0.268 ppbv
RT: 4.66 min Scan# 535
Delta R.T. -0.01 min
Lab File: VL032485.D
Acq: 10 Sep 2018 19:26

Tgt Ion:	76	Resp:	34955
Ion	Ratio	Lower	Upper
76	100		
44	35.9	14.0	21.0#
78	14.3	7.5	11.3#

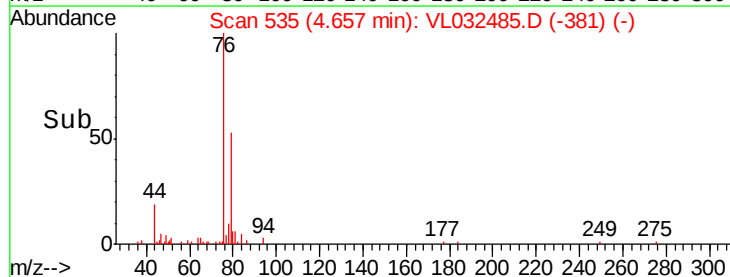
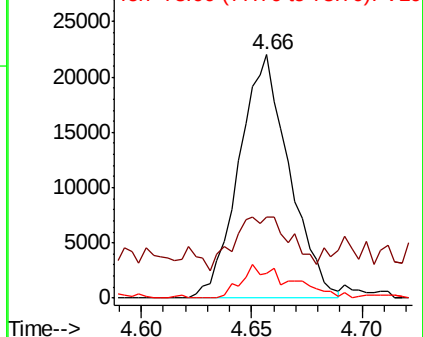


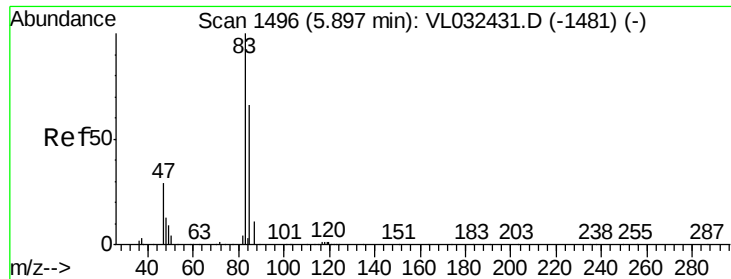
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 2.255 ppbv

RT: 5.89 min Scan# 917

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

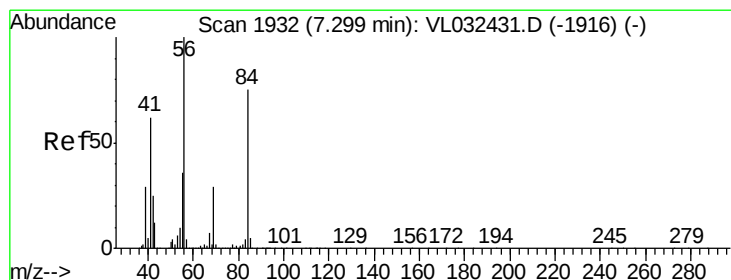
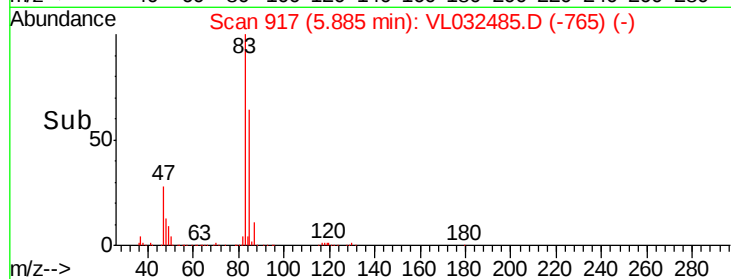
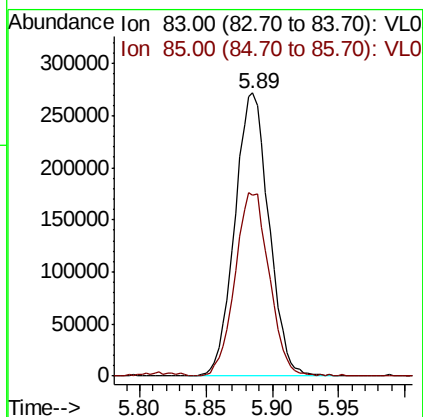
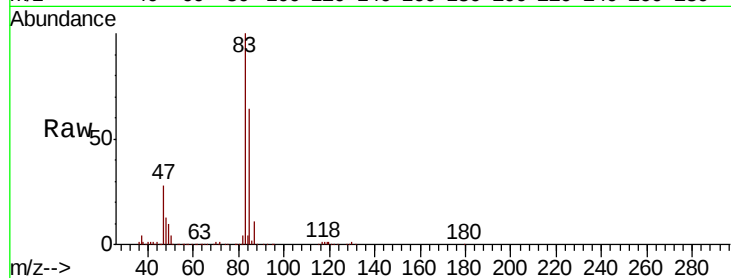
239-BERRY

Tgt Ion: 83 Resp: 485854

Ion Ratio Lower Upper

83 100

85 63.8 52.5 78.7



#30

Cyclohexane

Concen: 0.034 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

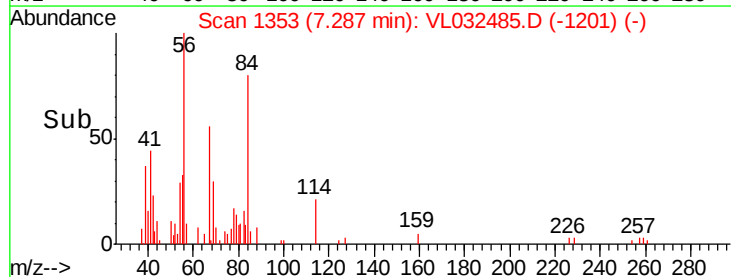
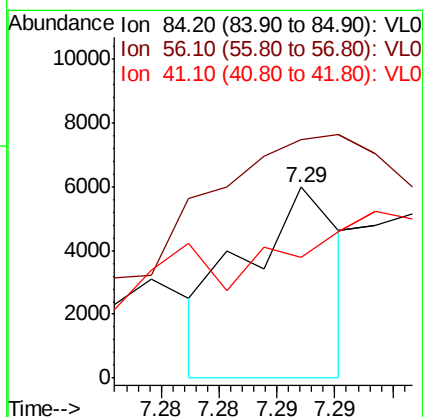
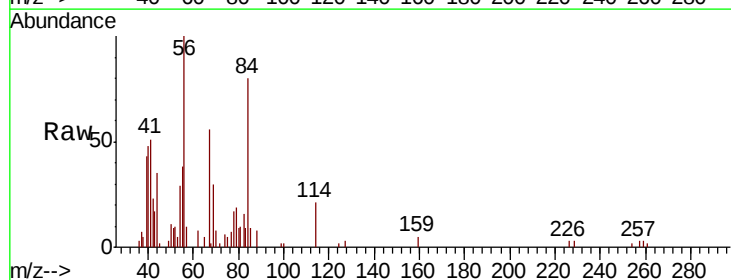
Tgt Ion: 84 Resp: 3482

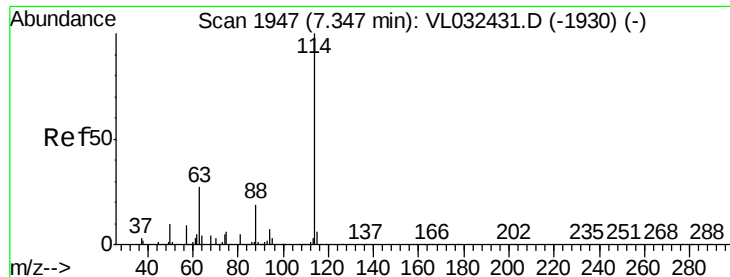
Ion Ratio Lower Upper

84 100

56 0.0 113.5 170.3#

41 0.0 68.1 102.1#

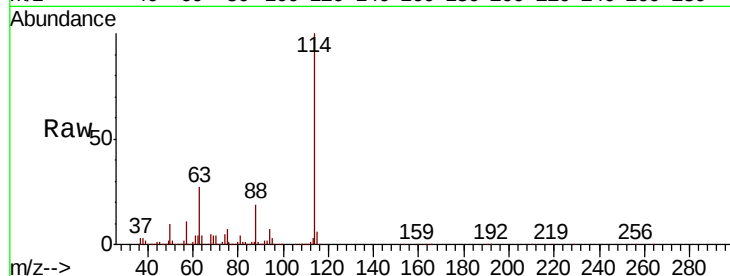




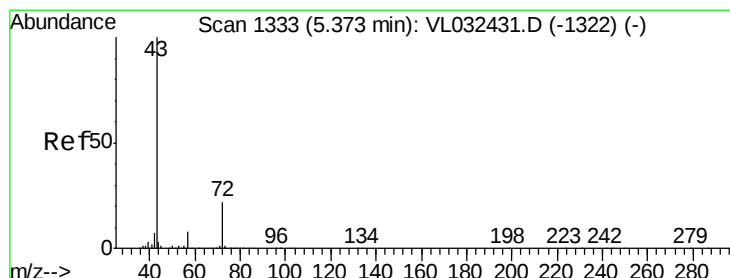
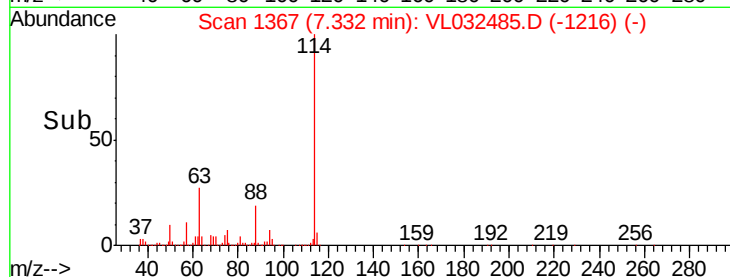
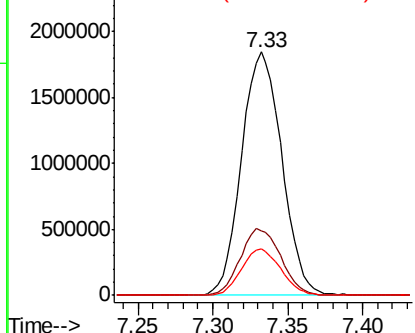
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

Instrument :
 MSVOA_L
 ClientSampleId :
 239-BERRY

Tgt Ion:114 Resp: 3466575
 Ion Ratio Lower Upper
 114 100
 63 27.8 22.2 33.4
 88 18.8 15.0 22.4

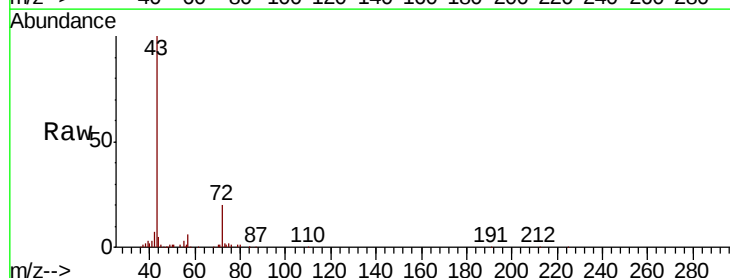


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

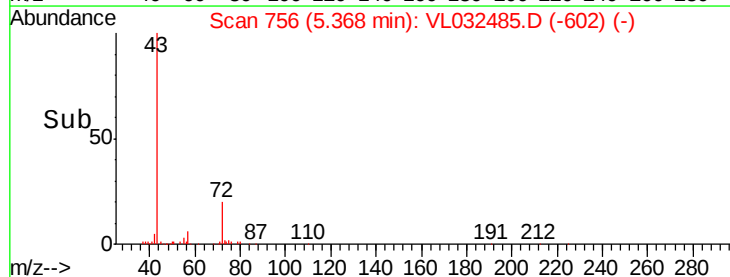
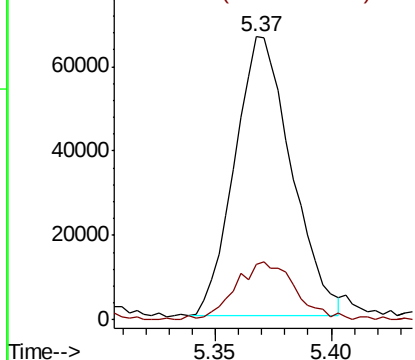


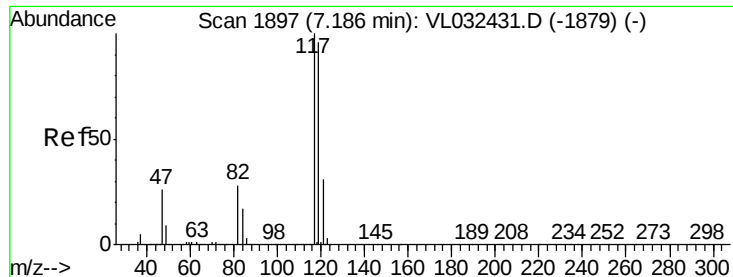
#34
 2-Butanone
 Concen: 0.489 ppbv
 RT: 5.37 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

Tgt Ion: 43 Resp: 112513
 Ion Ratio Lower Upper
 43 100
 72 22.6 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.063 ppbv

RT: 7.17 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

239-BERRY

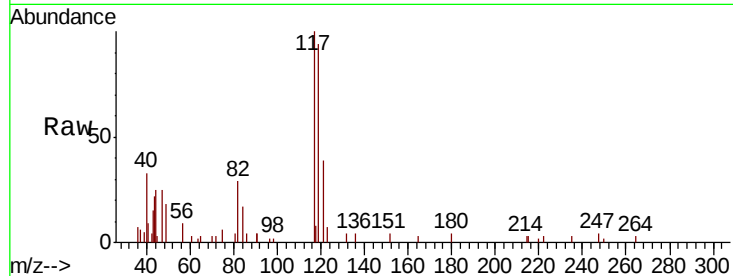
Tgt Ion:117 Resp: 14627

Ion Ratio Lower Upper

117 100

119 87.3 76.6 115.0

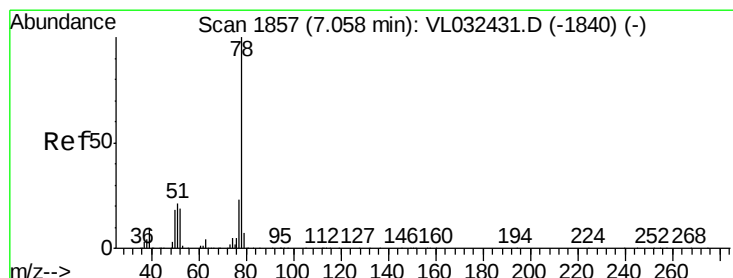
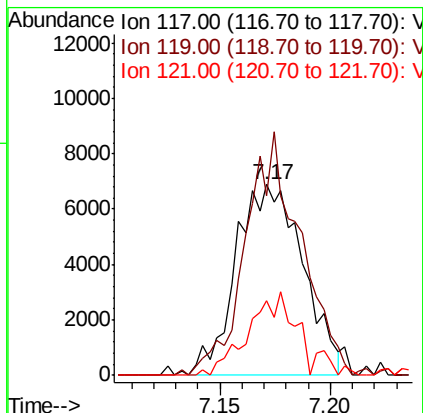
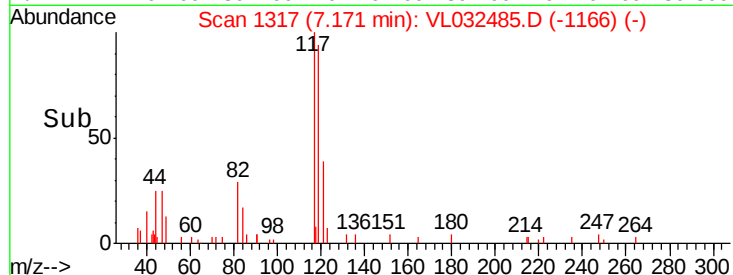
121 36.1 24.6 36.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.103 ppbv

RT: 7.04 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

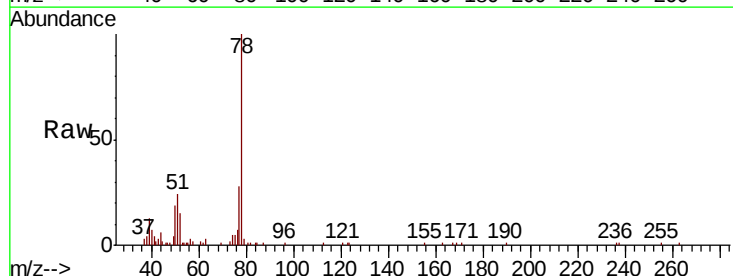
Tgt Ion: 78 Resp: 30329

Ion Ratio Lower Upper

78 100

77 26.9 18.4 27.6

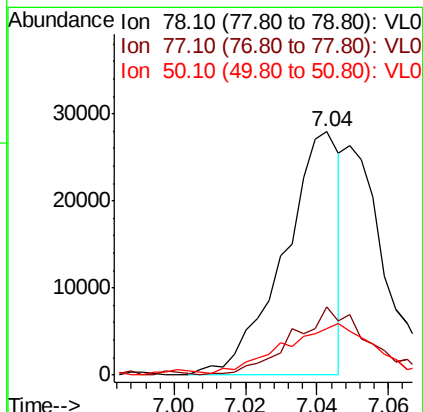
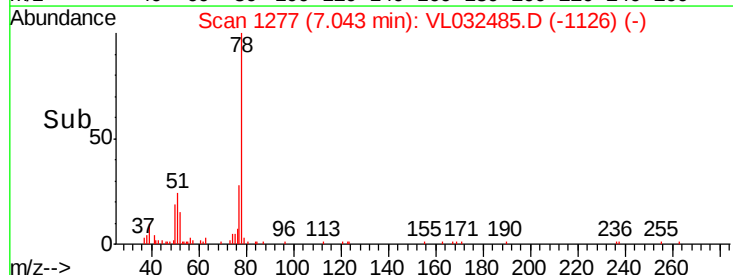
50 15.5 14.4 21.6

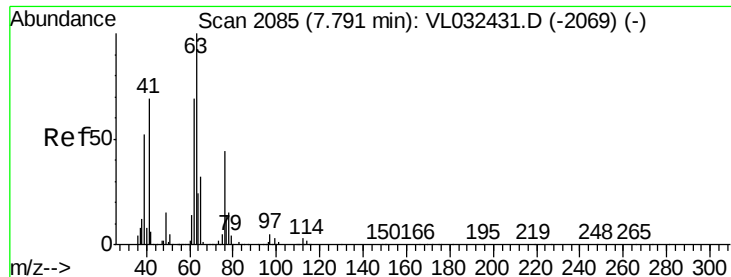


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

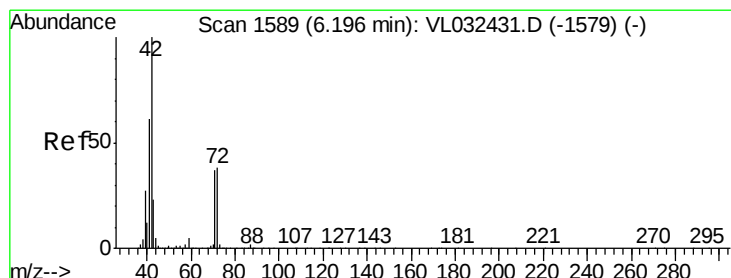
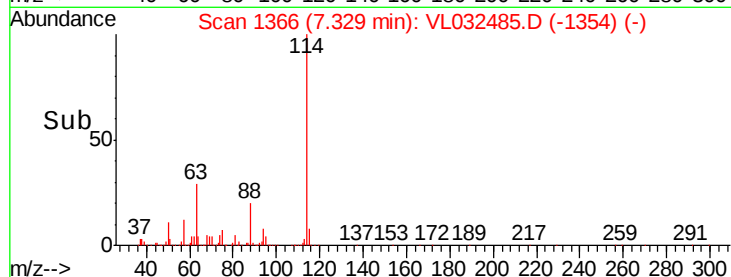
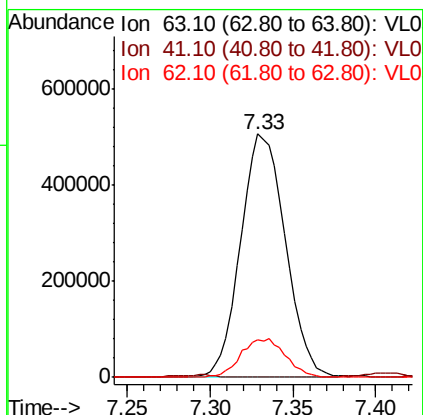
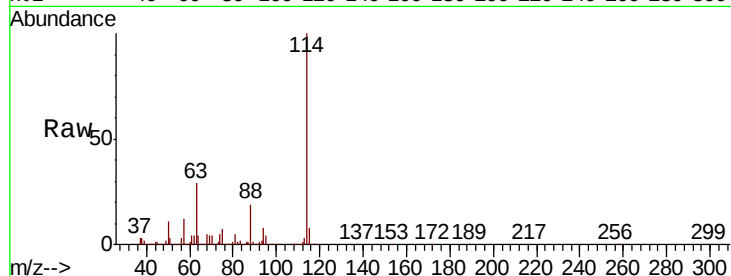




#39
 1,2-Dichloropropane
 Concen: 7.562 ppbv
 RT: 7.33 min Scan# 1366
 Delta R.T. -0.46 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

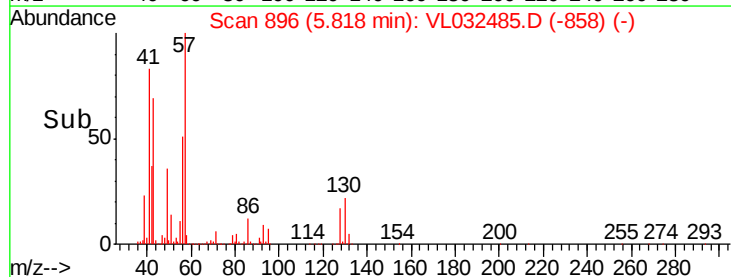
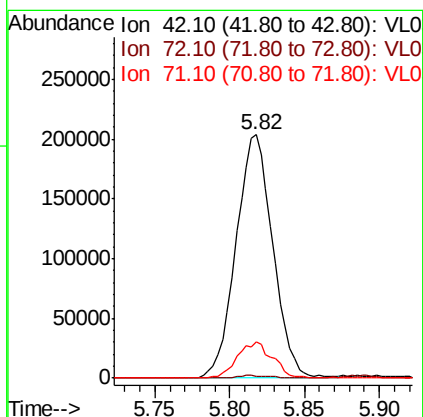
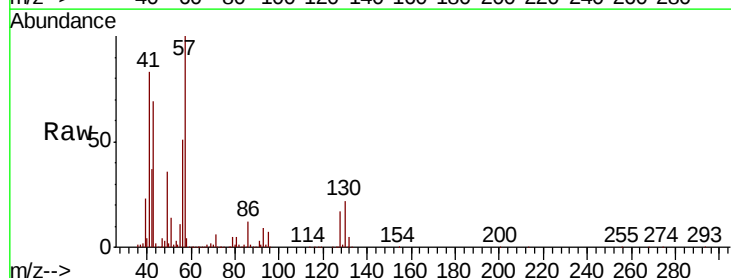
Instrument :
 MSVOA_L
 ClientSampleId :
 239-BERRY

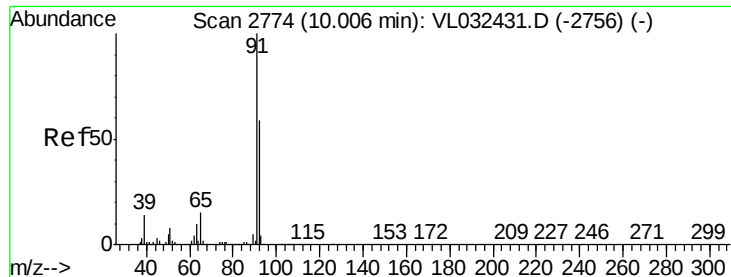
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.4	83.0#
62	15.3	55.4	83.0#



#41
 Tetrahydrofuran
 Concen: 2.779 ppbv
 RT: 5.82 min Scan# 896
 Delta R.T. -0.38 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.0	29.5	44.3#
71	14.4	28.3	42.5#





#53

Toluene

Concen: 0.405 ppbv

RT: 9.99 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

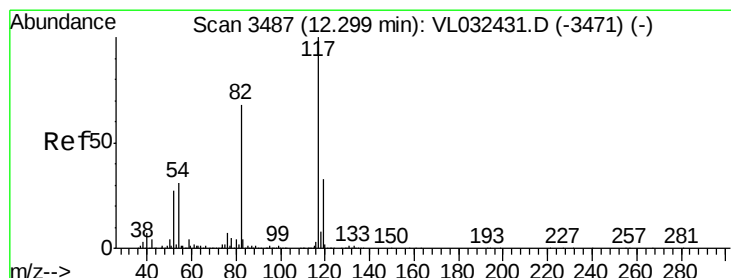
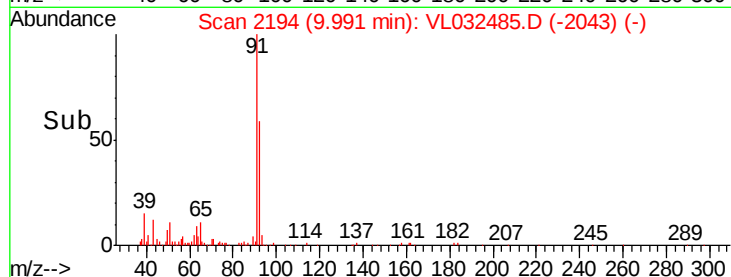
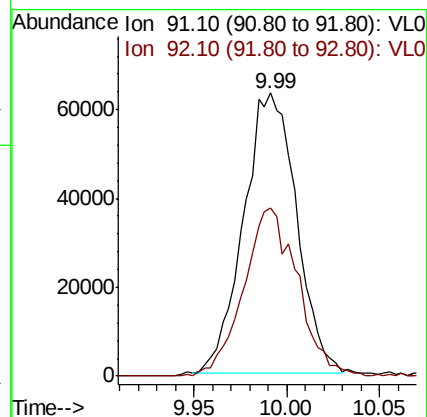
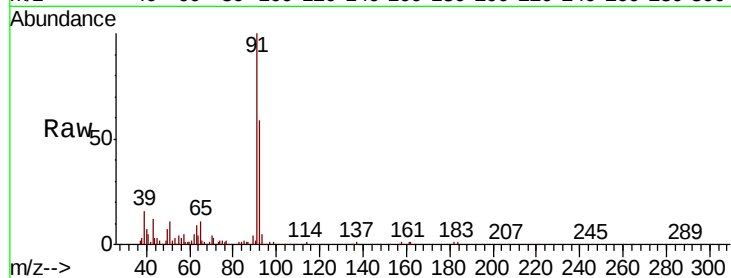
239-BERRY

Tgt Ion: 91 Resp: 124950

Ion Ratio Lower Upper

91 100

92 61.5 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

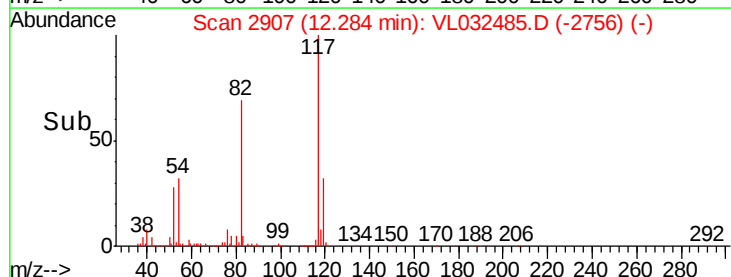
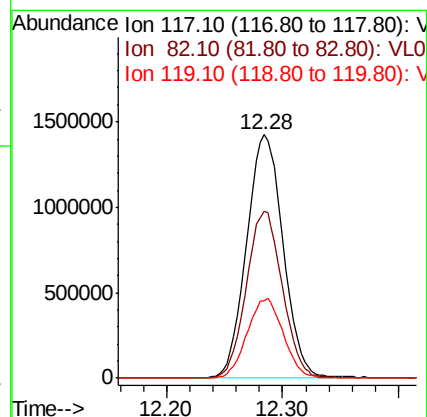
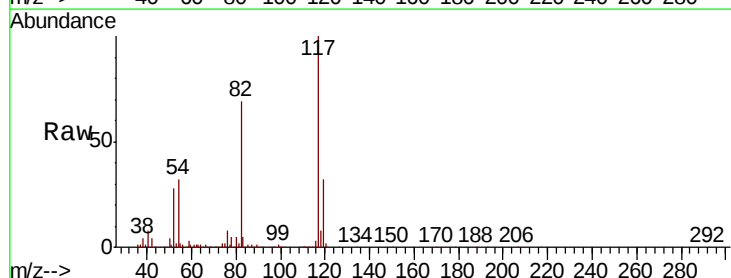
Tgt Ion: 117 Resp: 3122797

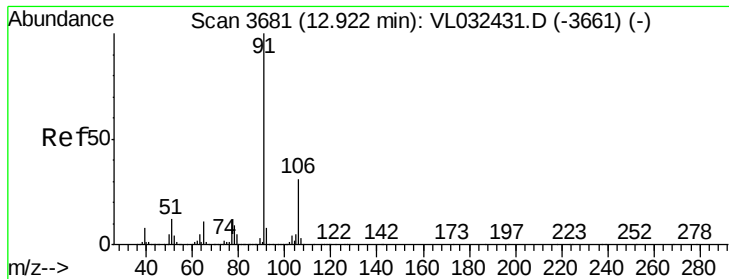
Ion Ratio Lower Upper

117 100

82 67.9 53.0 79.6

119 32.4 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.035 ppbv

RT: 12.91 min Scan# 3102

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Instrument :

MSVOA_L

ClientSampleId :

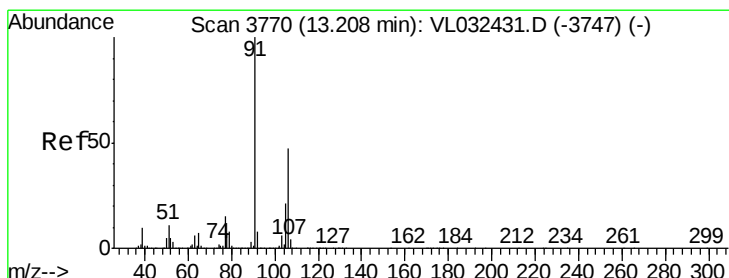
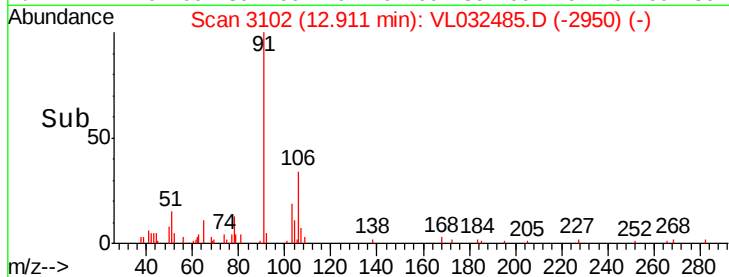
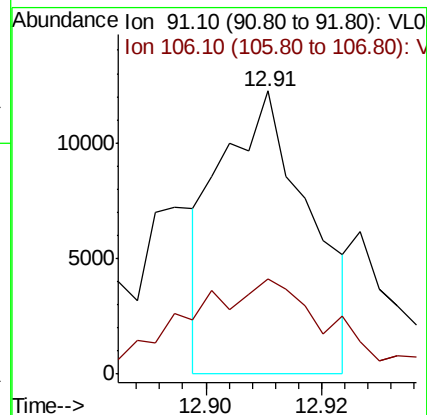
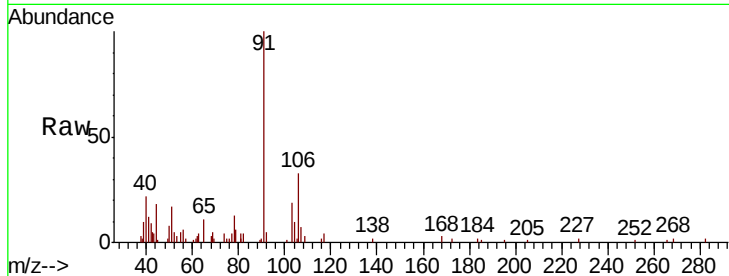
239-BERRY

Tgt Ion: 91 Resp: 13044

Ion Ratio Lower Upper

91 100

106 36.7 24.8 37.2



#59

m/p-Xylene

Concen: 0.041 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL032485.D

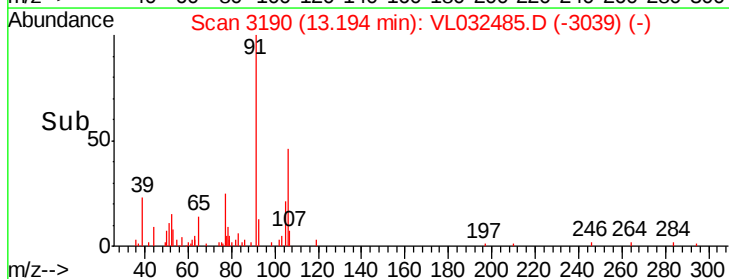
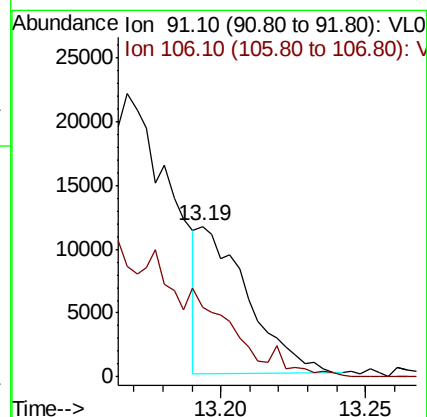
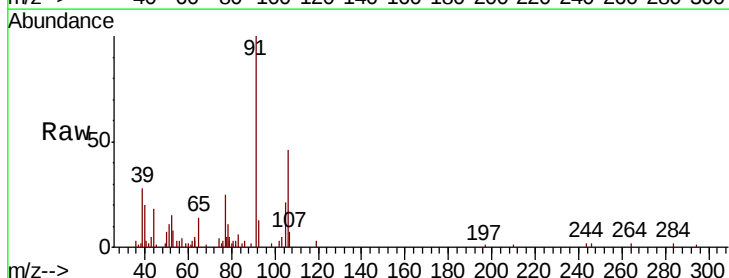
Acq: 10 Sep 2018 19:26

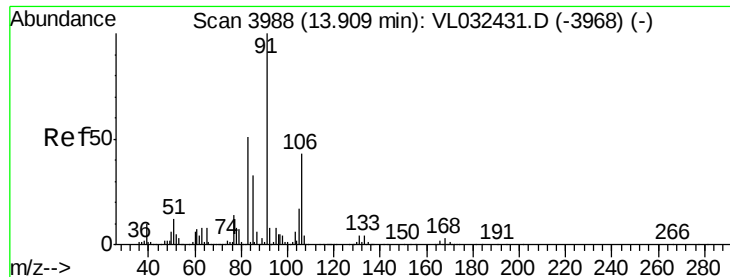
Tgt Ion: 91 Resp: 13646

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#

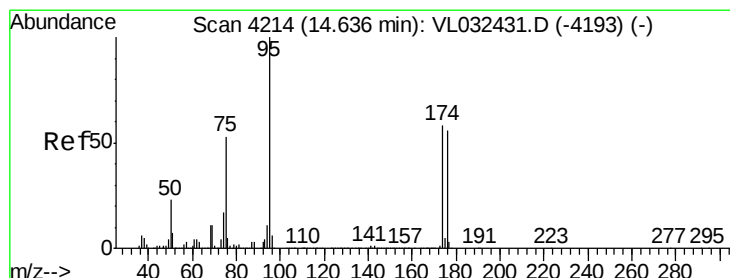
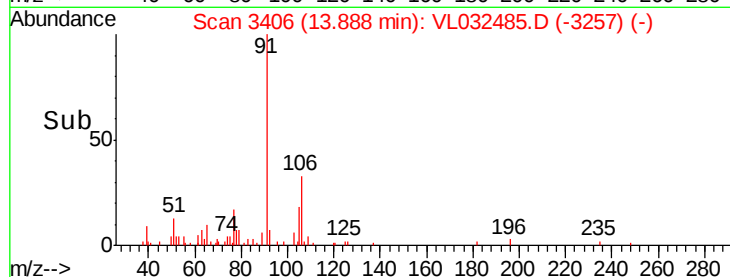
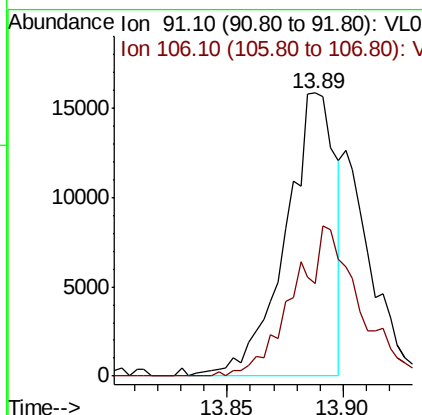
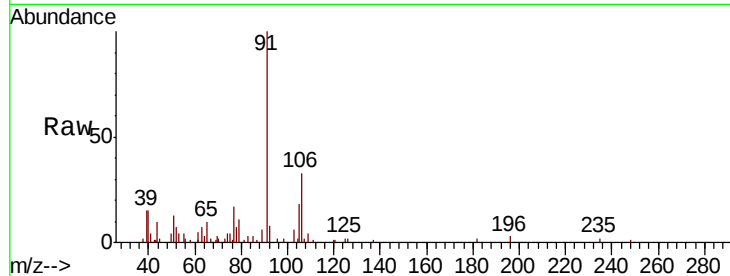




#60
o-Xylene
Concen: 0.072 ppbv
RT: 13.89 min Scan# 3406
Delta R.T. -0.02 min
Lab File: VL032485.D
Acq: 10 Sep 2018 19:26

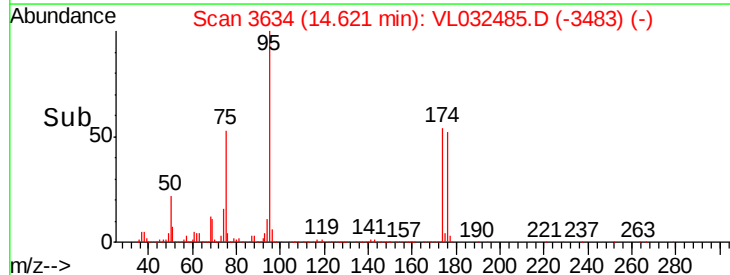
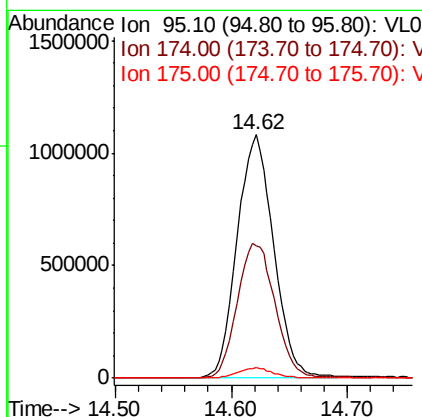
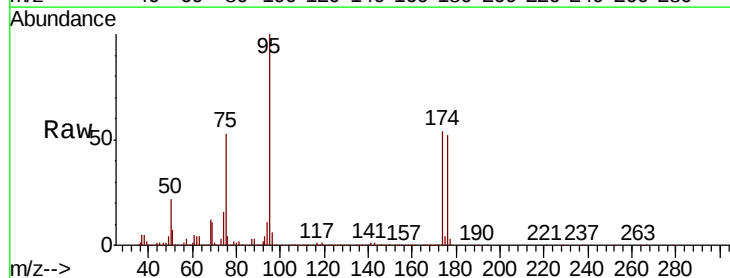
Instrument :
MSVOA_L
ClientSampleId :
239-BERRY

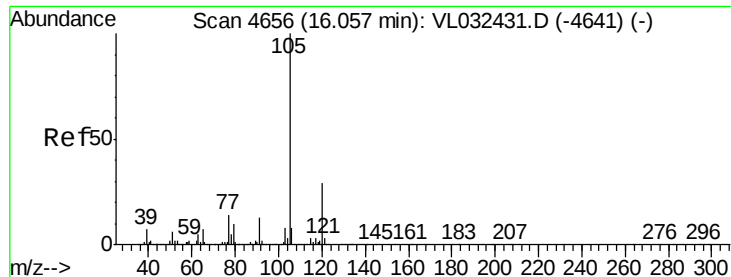
Tgt Ion: 91 Resp: 23629
Ion Ratio Lower Upper
91 100
106 69.7 21.9 65.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.196 ppbv
RT: 14.62 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL032485.D
Acq: 10 Sep 2018 19:26

Tgt Ion: 95 Resp: 2363918
Ion Ratio Lower Upper
95 100
174 58.0 46.3 69.5
175 4.2 3.4 5.0





#72

4-Ethyltoluene

Concen: 0.048 ppbv

RT: 16.05 min Scan# 4077

Delta R.T. -0.01 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

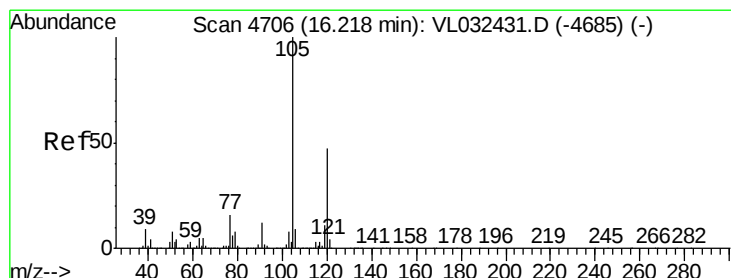
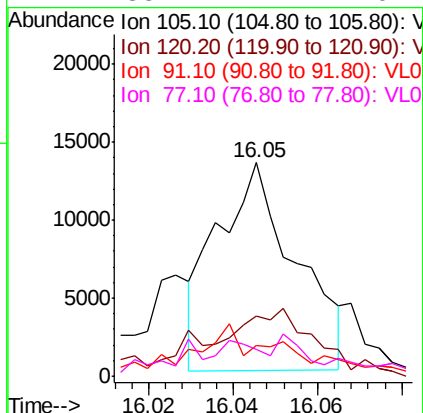
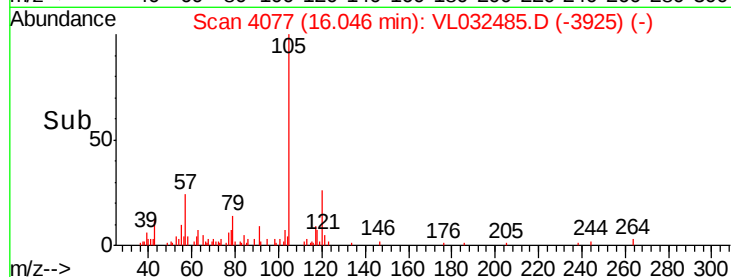
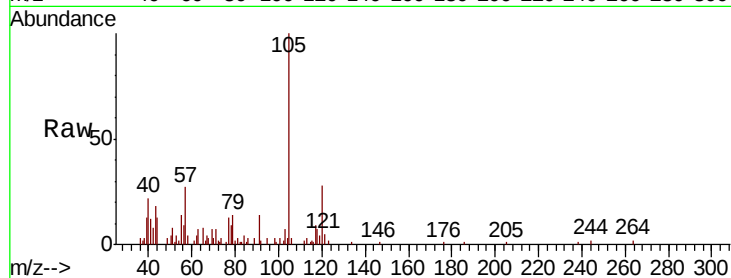
Instrument :

MSVOA_L

ClientSampleId :

239-BERRY

Tgt Ion:	105	Resp:	17301
Ion	Ratio	Lower	Upper
105	100		
120	43.0	23.5	35.3#
91	30.0	10.2	15.2#
77	35.4	11.1	16.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.100 ppbv

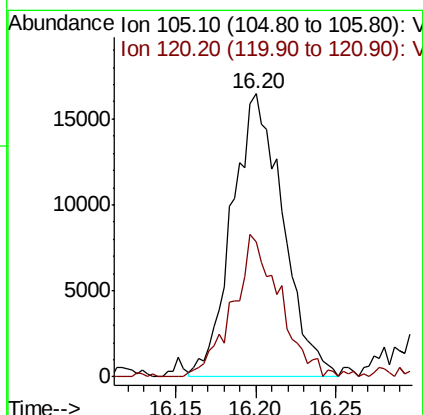
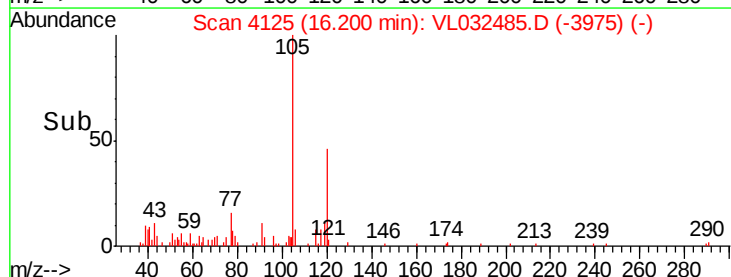
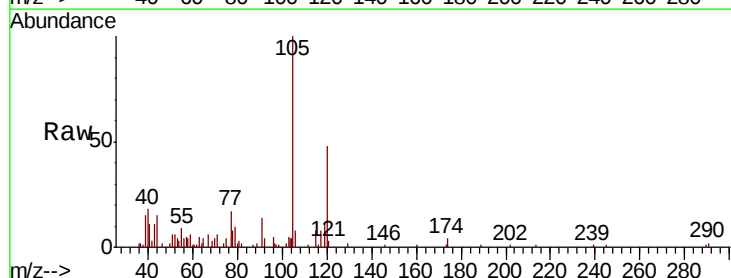
RT: 16.20 min Scan# 4125

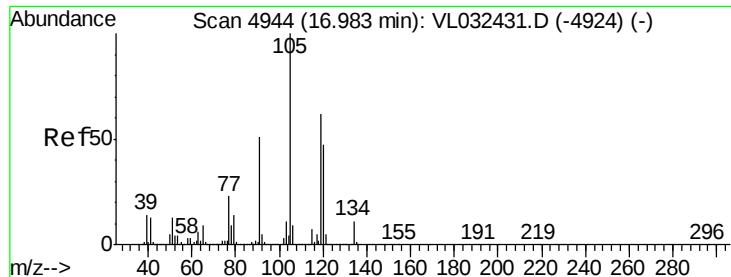
Delta R.T. -0.02 min

Lab File: VL032485.D

Acq: 10 Sep 2018 19:26

Tgt Ion:	105	Resp:	35823
Ion	Ratio	Lower	Upper
105	100		
120	47.7	37.9	56.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.286 ppbv
 RT: 16.97 min Scan# 4363
 Delta R.T. -0.02 min
 Lab File: VL032485.D
 Acq: 10 Sep 2018 19:26

Instrument :
 MSVOA_L
 ClientSampleId :
 239-BERRY

Tgt Ion:	105	Resp:	111795
Ion Ratio	Lower	Upper	
105	100		
120	43.3	37.8	56.8
91	14.6	41.4	62.0#
77	11.8	18.6	28.0#

