

Data File : VL032501.D
Acq On : 11 Sep 2018 10:26
Operator : SY/AP
Sample : 4820-05DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL2

Quant Time: Sep 12 05:37:07 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	1356581	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3129023	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3151193	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2456477	10.50	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

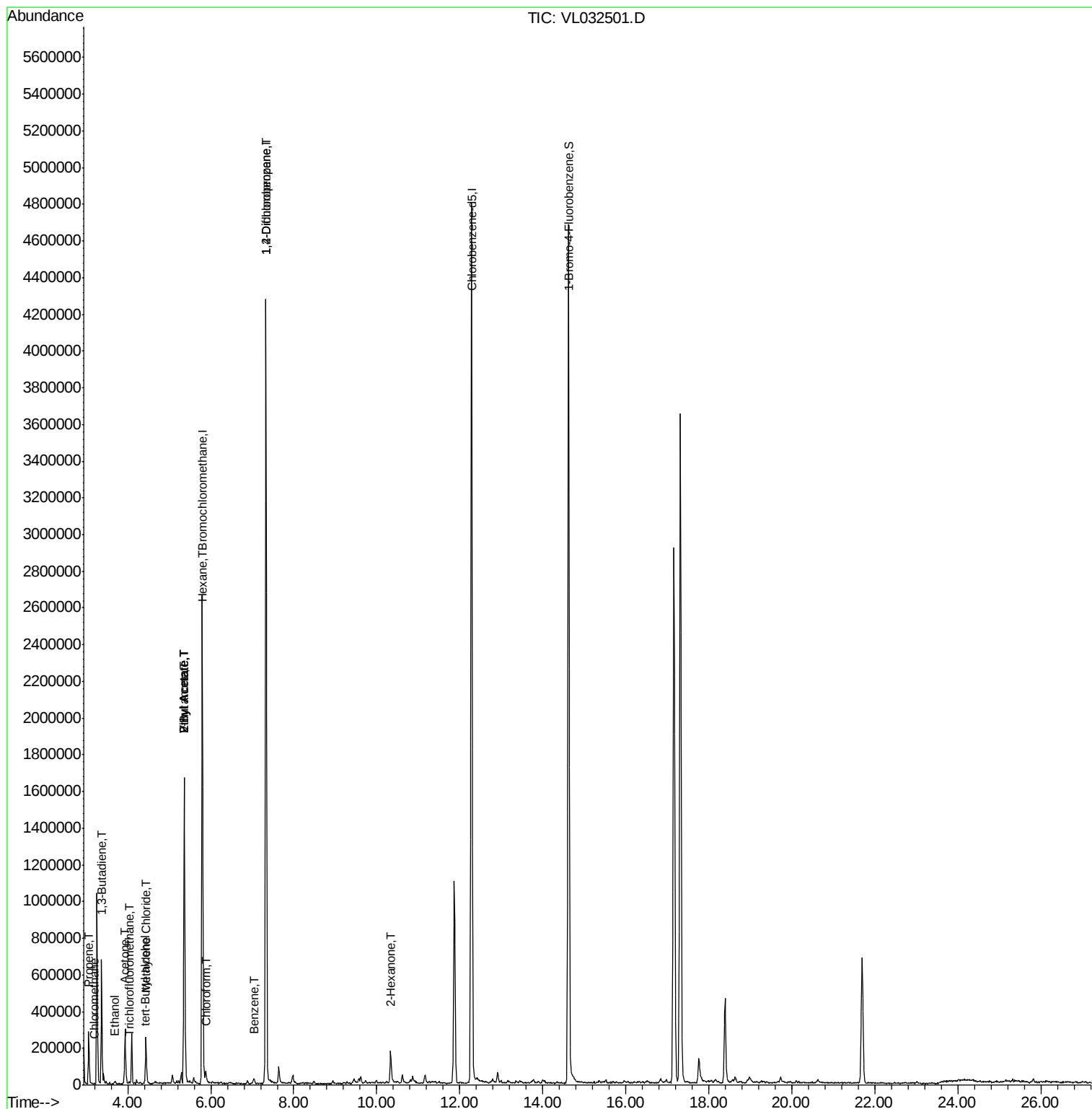
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.19	50	2352	0.032	ppbv #	83
9) Propene	3.06	41	117653	2.375	ppbv	92
11) Trichlorofluoromethane	4.03	101	8143	0.052	ppbv	99
13) Ethanol	3.69	45	8724	0.565	ppbv #	29
15) Acetone	3.93	43	290819	2.381	ppbv #	72
16) 1,3-Butadiene	3.37	39	155219	2.700	ppbv #	7
17) tert-Butyl alcohol	4.41	59	6032	0.321	ppbv #	100
20) Methylene Chloride	4.44	84	79646	1.710	ppbv	97
23) Vinyl Acetate	5.36	43	2063994	10.193	ppbv #	88
25) Ethyl Acetate	5.36	43	2063994	7.155	ppbv #	76
26) Hexane	5.81	57	29052	0.225	ppbv #	11
29) Chloroform	5.89	83	36667	0.186	ppbv	84
34) 2-Butanone	5.36	43	2063994	9.931	ppbv	100
36) Benzene	7.04	78	10531	0.040	ppbv #	88
39) 1,2-Dichloropropane	7.33	63	828842	7.275	ppbv #	26
51) 2-Hexanone	10.33	43	147346	0.731	ppbv #	100

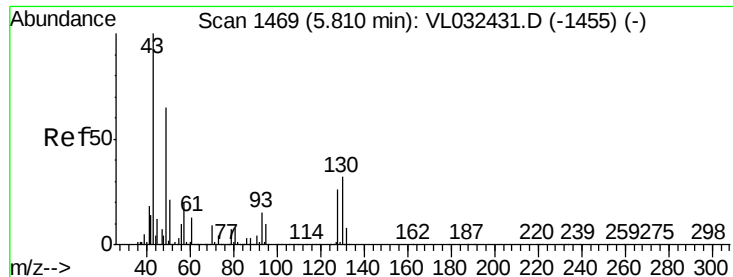
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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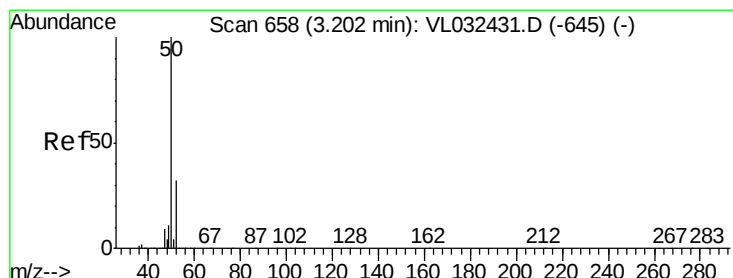
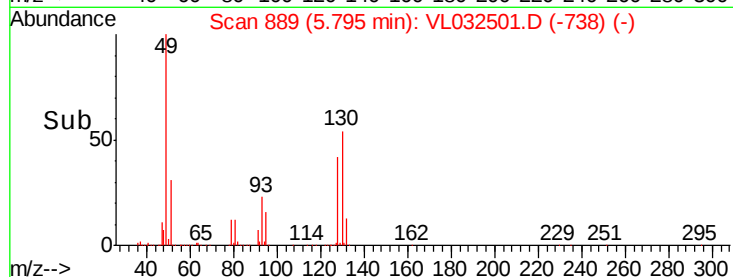
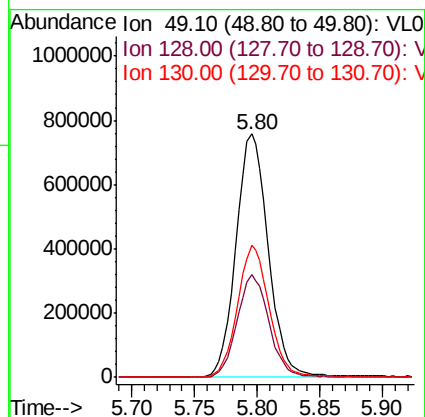
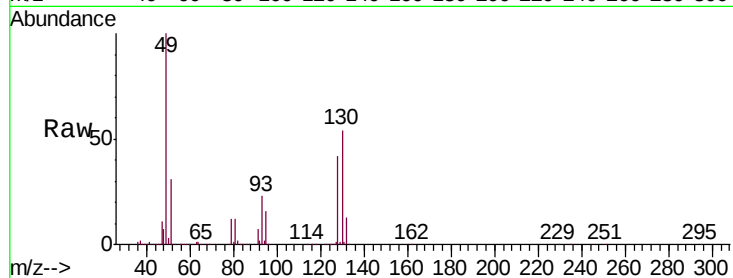




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.80 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

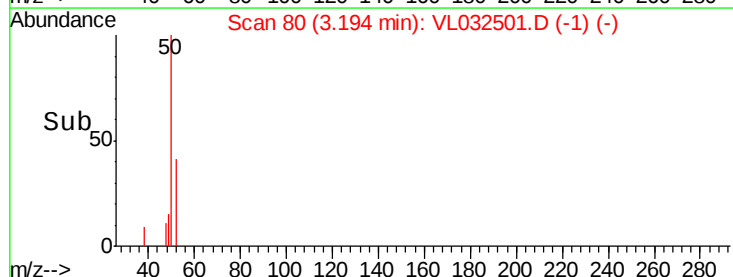
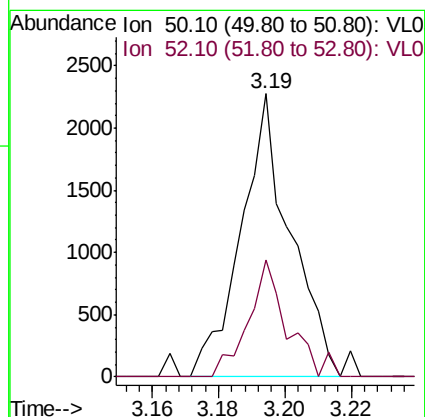
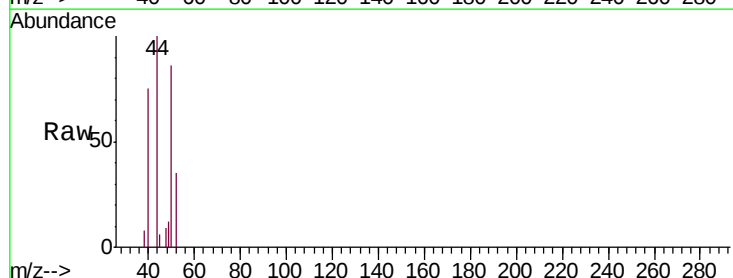
Instrument :
 MSVOA_L
 ClientSampleID :
 249-BERRYDL2

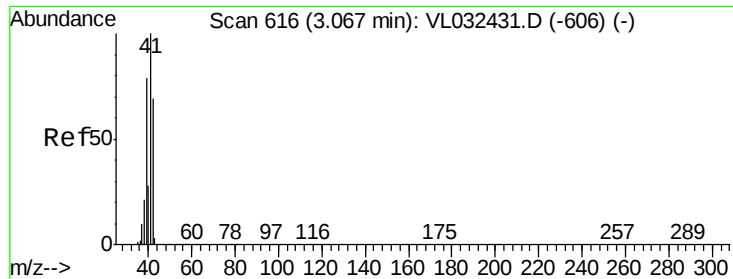
Tgt Ion: 49 Resp: 1356581
 Ion Ratio Lower Upper
 49 100
 128 41.7 20.7 62.1
 130 53.6 26.6 79.7



#4
 Chloromethane
 Concen: 0.032 ppbv
 RT: 3.19 min Scan# 80
 Delta R.T. -0.01 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

Tgt Ion: 50 Resp: 2352
 Ion Ratio Lower Upper
 50 100
 52 41.4 25.6 38.4#





#9

Propene

Concen: 2.375 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032501.D

Acq: 11 Sep 2018 10:26

Instrument :

MSVOA_L

ClientSampleId :

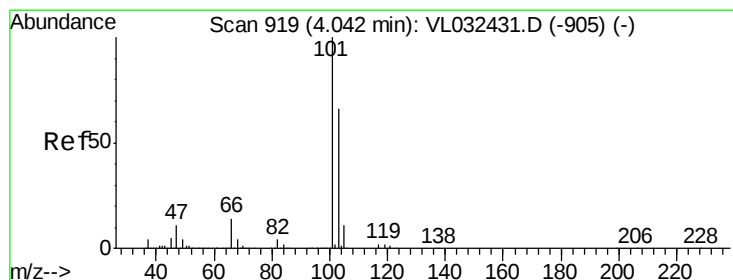
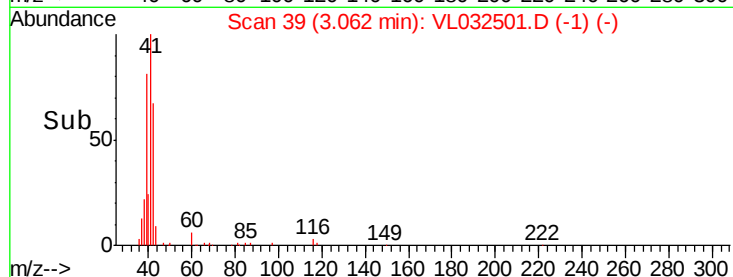
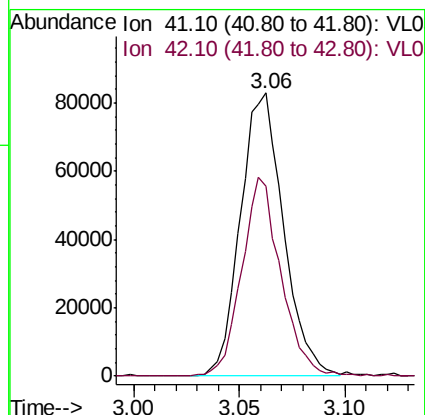
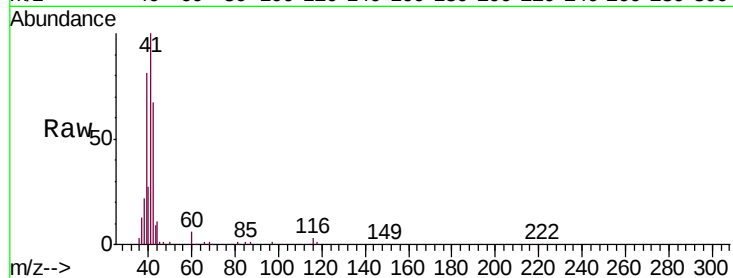
249-BERRYDL2

Tgt Ion: 41 Resp: 117653

Ion Ratio Lower Upper

41 100

42 64.1 56.6 84.8



#11

Trichlorofluoromethane

Concen: 0.052 ppbv

RT: 4.03 min Scan# 341

Delta R.T. -0.01 min

Lab File: VL032501.D

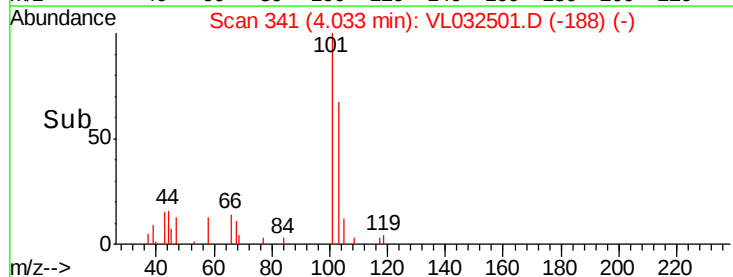
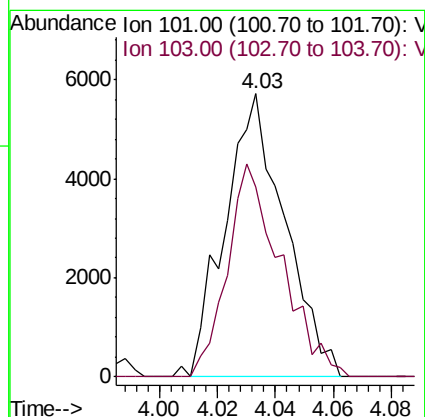
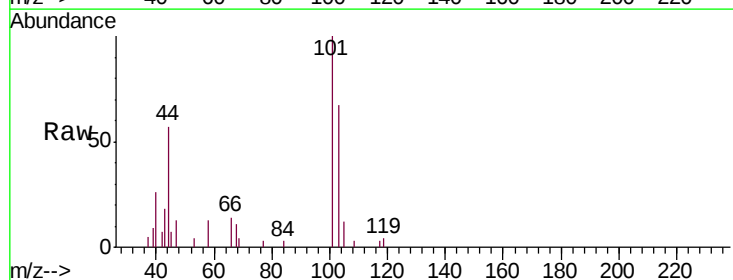
Acq: 11 Sep 2018 10:26

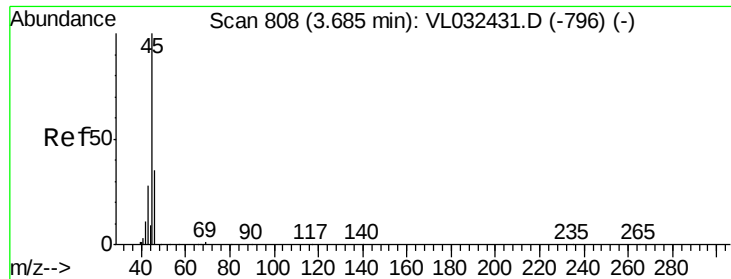
Tgt Ion: 101 Resp: 8143

Ion Ratio Lower Upper

101 100

103 66.9 52.8 79.2

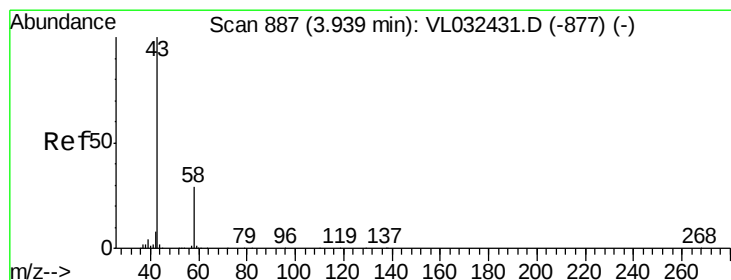
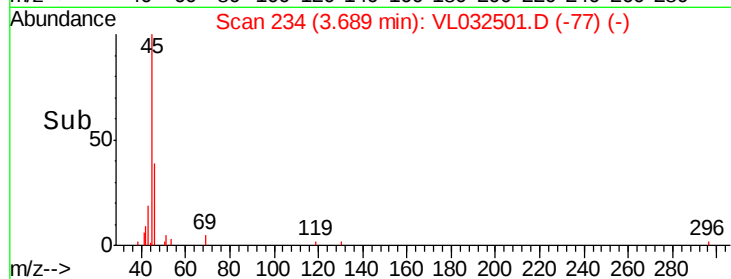
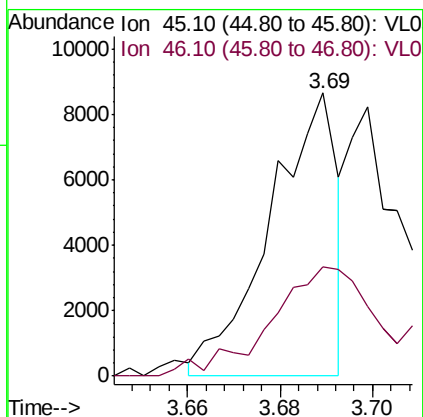
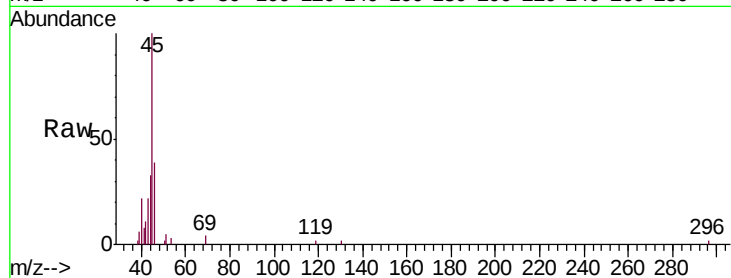




#13
Ethanol
Concen: 0.565 ppbv
RT: 3.69 min Scan# 234
Delta R.T. 0.00 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

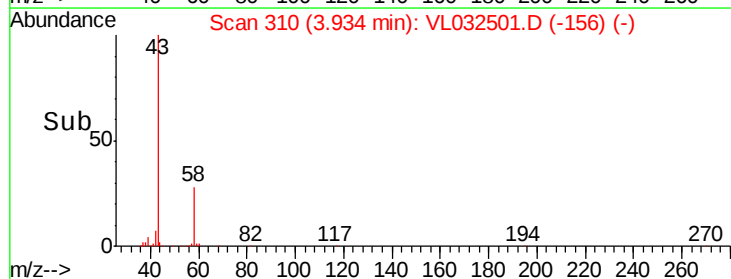
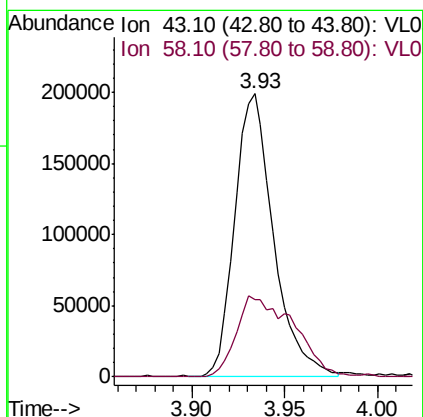
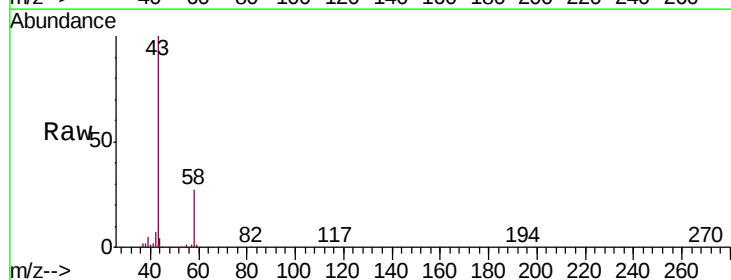
Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL2

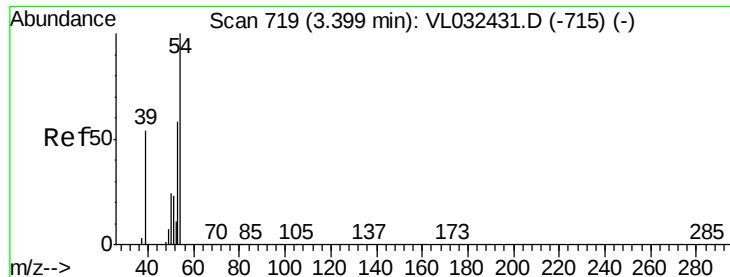
Tgt Ion: 45 Resp: 8724
Ion Ratio Lower Upper
45 100
46 77.3 14.2 56.8#



#15
Acetone
Concen: 2.381 ppbv
RT: 3.93 min Scan# 310
Delta R.T. -0.01 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

Tgt Ion: 43 Resp: 290819
Ion Ratio Lower Upper
43 100
58 43.1 22.6 33.8#

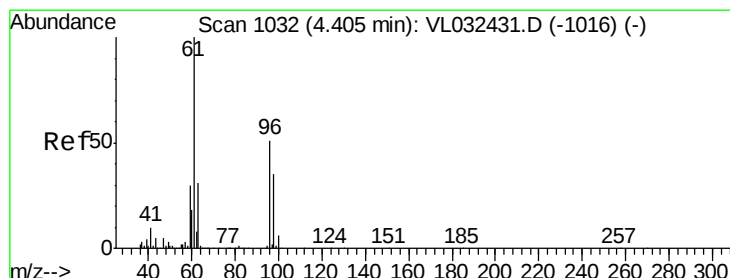
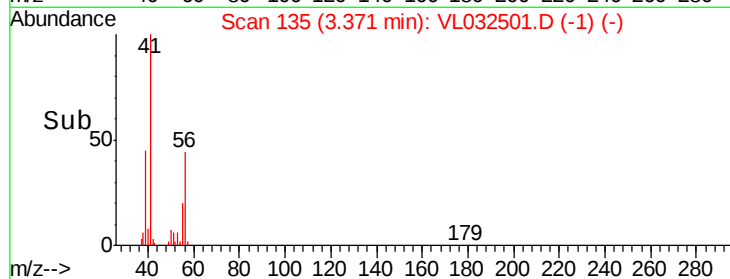
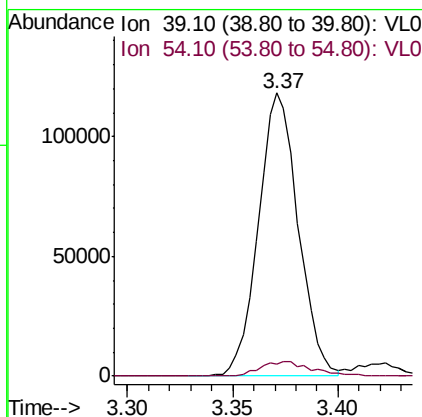
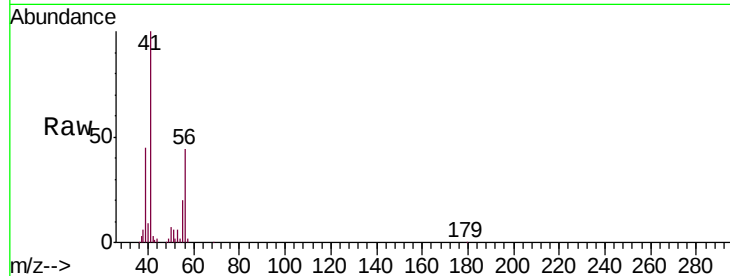




#16
 1,3-Butadiene
 Concen: 2.700 ppbv
 RT: 3.37 min Scan# 135
 Delta R.T. -0.03 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

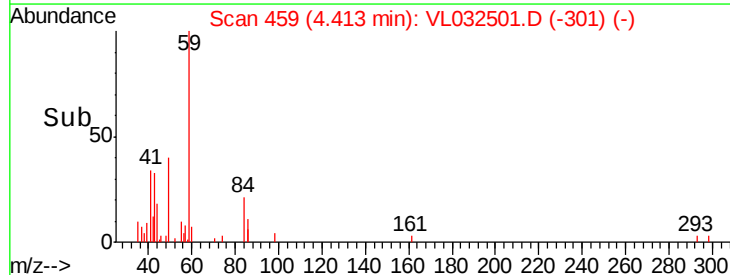
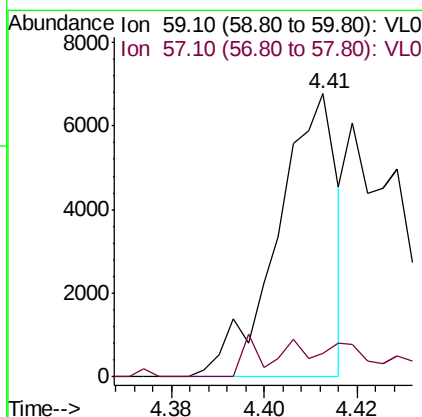
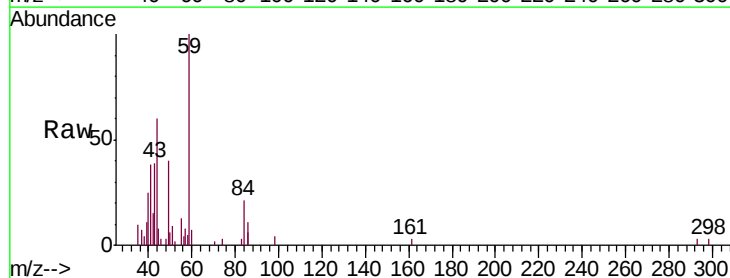
Instrument :
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 ClientSampleId :
 249-BERRYDL2

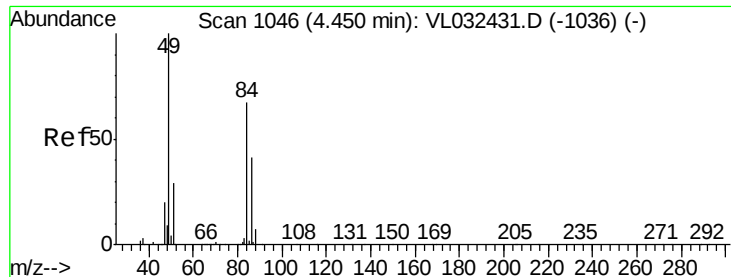
Tgt Ion: 39 Resp: 155219
 Ion Ratio Lower Upper
 39 100
 54 7.1 80.8 121.2#



#17
 tert-Butyl alcohol
 Concen: 0.321 ppbv
 RT: 4.41 min Scan# 459
 Delta R.T. 0.01 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

Tgt Ion: 59 Resp: 6032
 Ion Ratio Lower Upper
 59 100
 57 21.7 0.0 0.0#

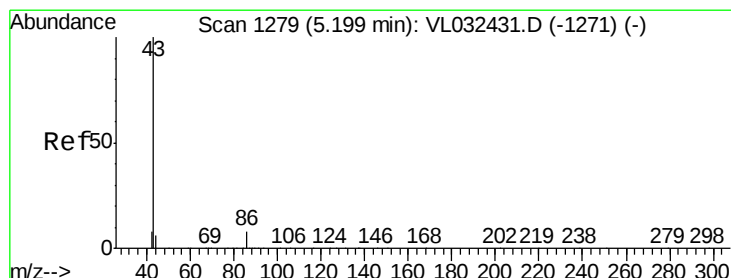
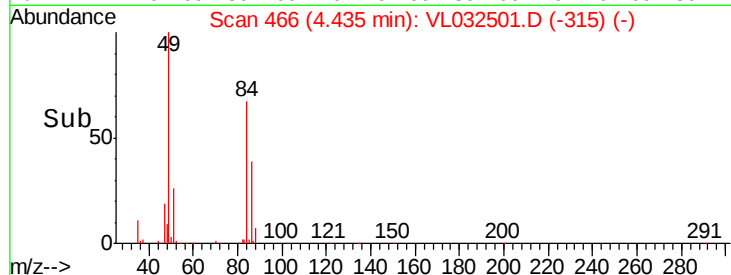
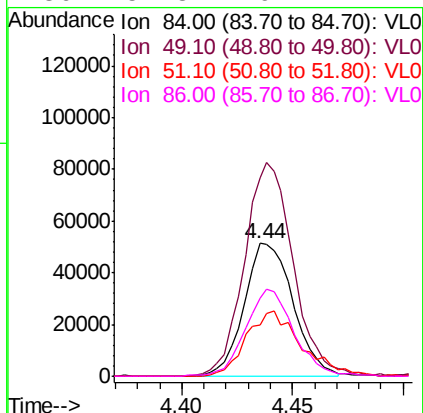
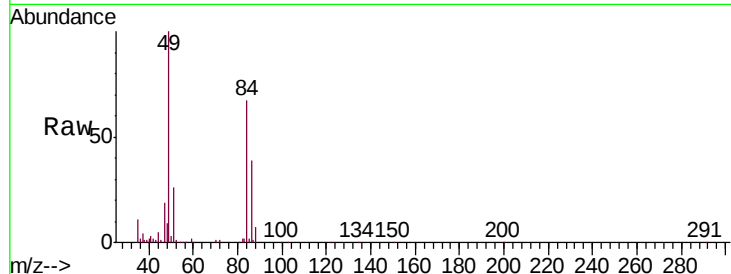




#20
Methylene Chloride
Concen: 1.710 ppbv
RT: 4.44 min Scan# 466
Delta R.T. -0.01 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

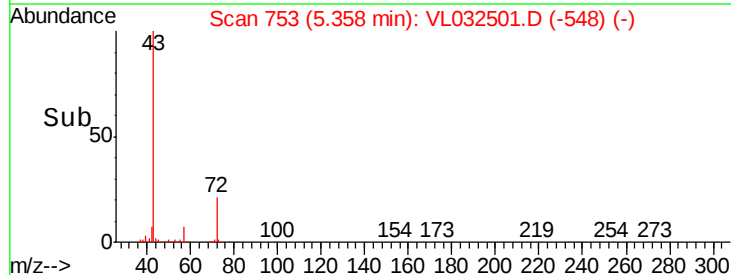
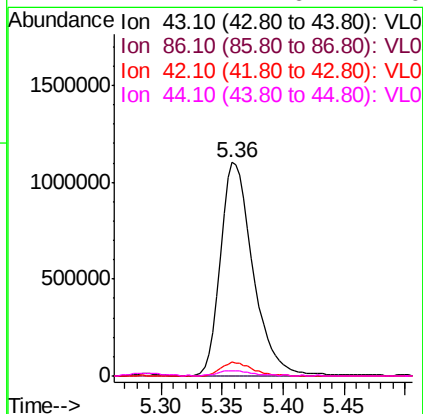
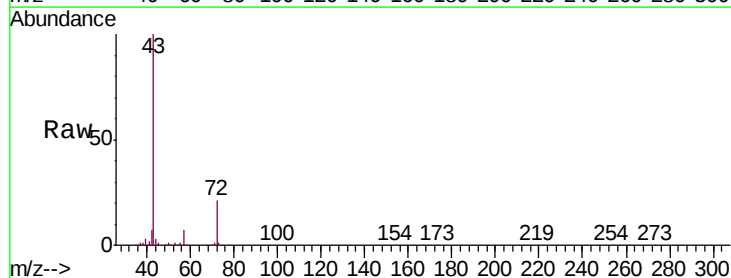
Instrument :
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ClientSampleId :
249-BERRYDL2

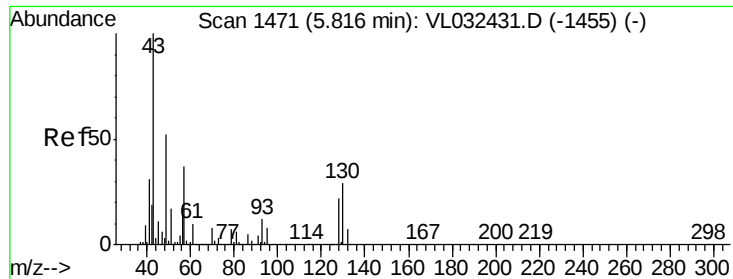
Tgt Ion:	84	Resp:	79646
Ion	Ratio	Lower	Upper
84	100		
49	149.1	119.1	178.7
51	38.1	35.2	52.8
86	57.8	49.4	74.2



#23
Vinyl Acetate
Concen: 10.193 ppbv
RT: 5.36 min Scan# 753
Delta R.T. 0.16 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

Tgt Ion:	43	Resp:	2063994
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.9	8.9#
42	6.9	6.9	10.3#
44	2.4	4.6	7.0#

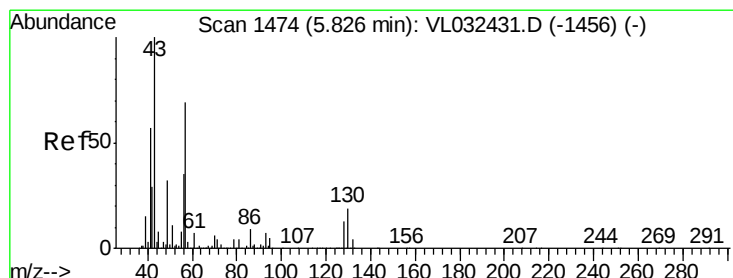
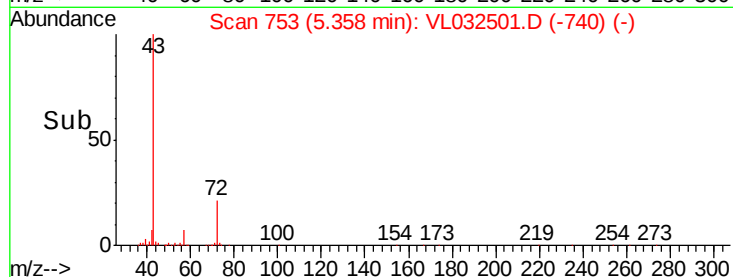
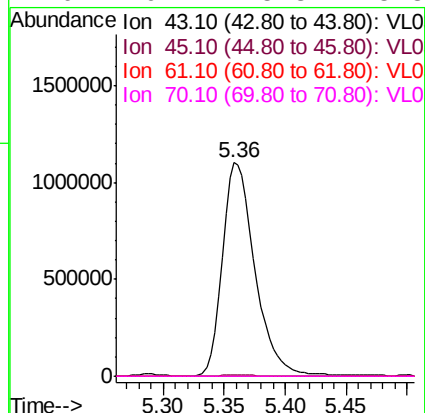
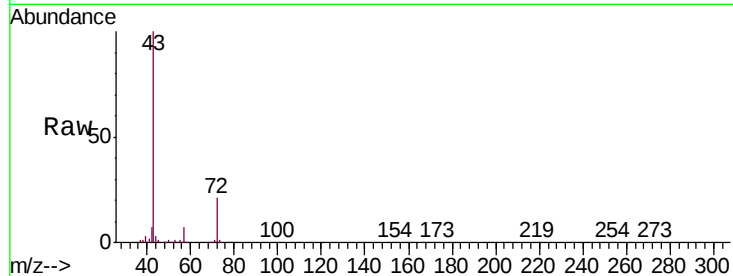




#25
Ethyl Acetate
Concen: 7.155 ppbv
RT: 5.36 min Scan# 753
Delta R.T. -0.46 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

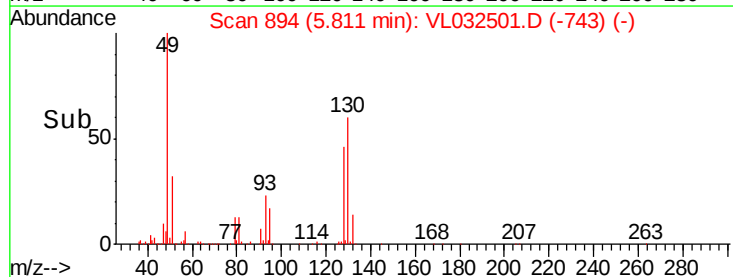
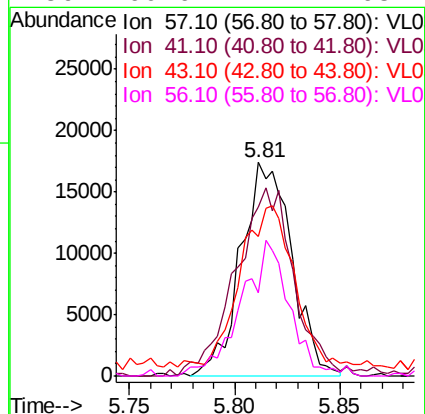
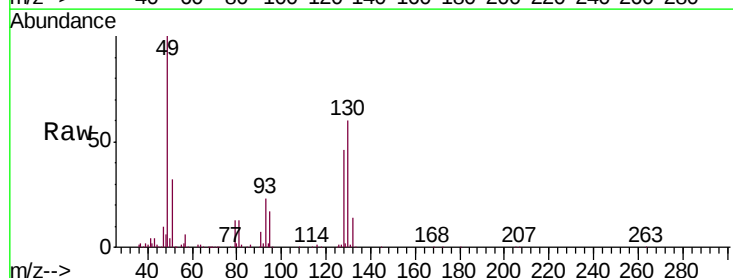
Instrument :
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249-BERRYDL2

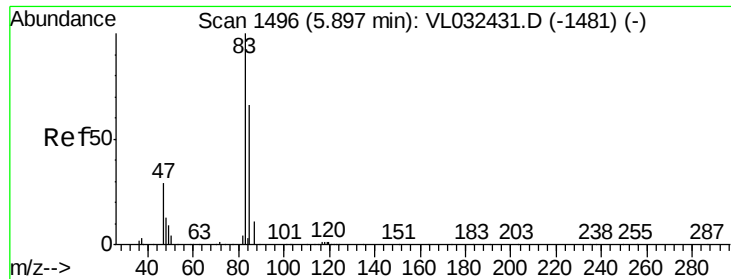
Tgt Ion: 43 Resp: 2063994
Ion Ratio Lower Upper
43 100
45 0.8 8.0 12.0#
61 0.0 7.6 11.4#
70 0.1 5.8 8.8#



#26
Hexane
Concen: 0.225 ppbv
RT: 5.81 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

Tgt Ion: 57 Resp: 29052
Ion Ratio Lower Upper
57 100
41 102.9 69.0 103.4
43 0.0 172.1 258.1#
56 60.6 42.2 63.2

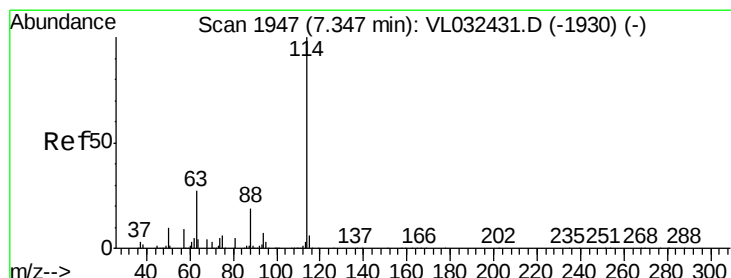
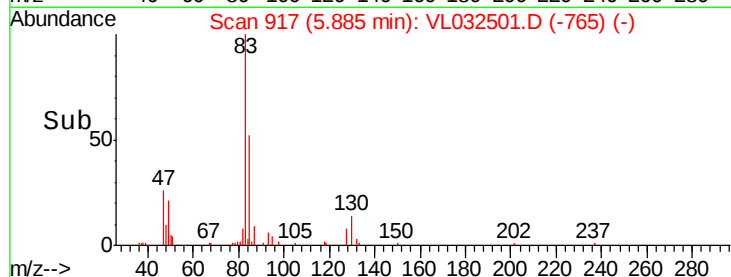
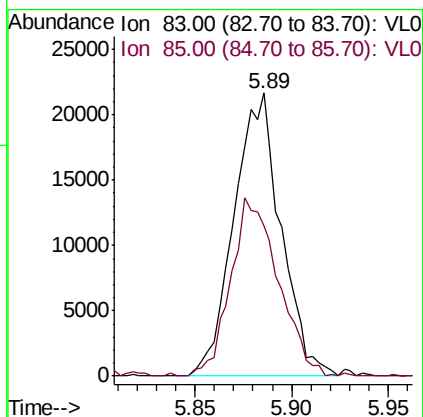
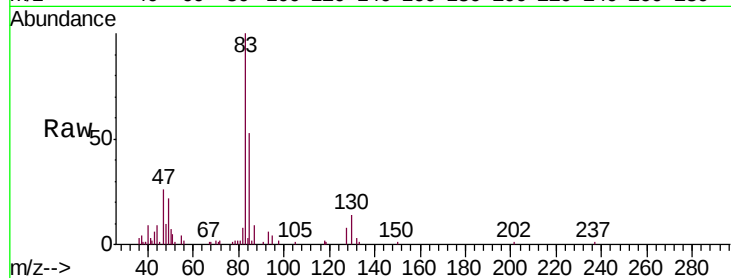




#29
Chloroform
Concen: 0.186 ppbv
RT: 5.89 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

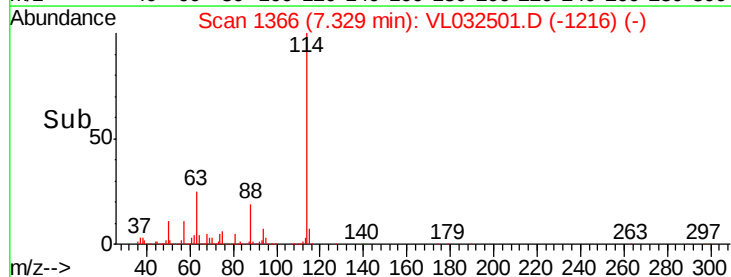
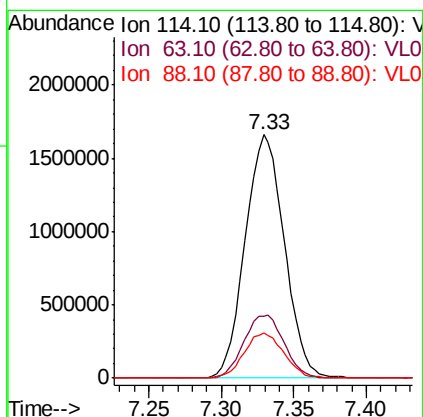
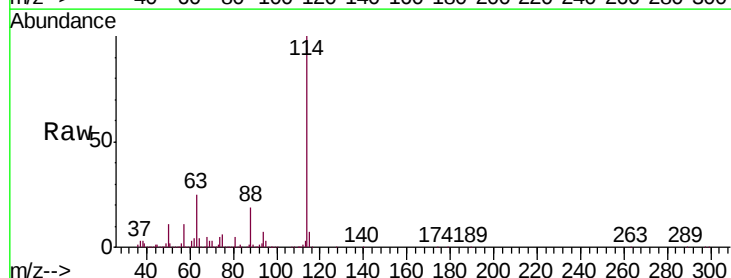
Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL2

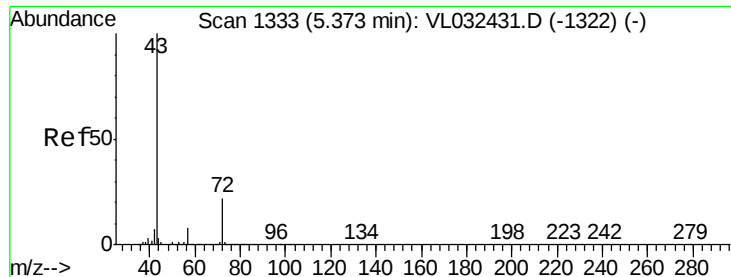
Tgt Ion: 83 Resp: 36667
Ion Ratio Lower Upper
83 100
85 53.1 52.5 78.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.33 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

Tgt Ion: 114 Resp: 3129023
Ion Ratio Lower Upper
114 100
63 26.7 22.2 33.4
88 18.8 15.0 22.4

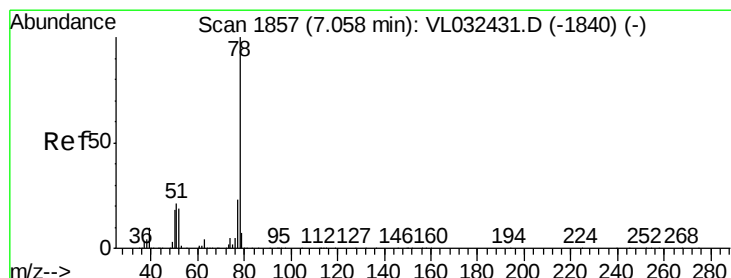
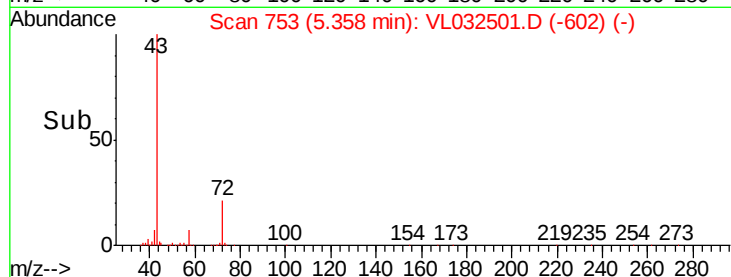
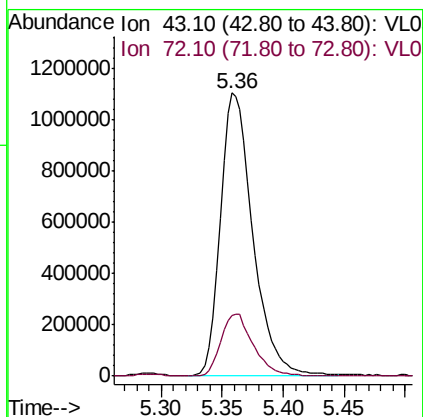
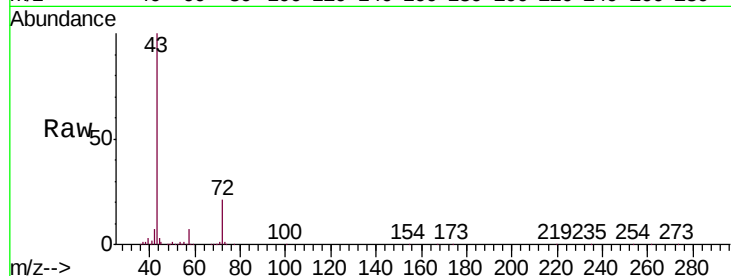




#34
 2-Butanone
 Concen: 9.931 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

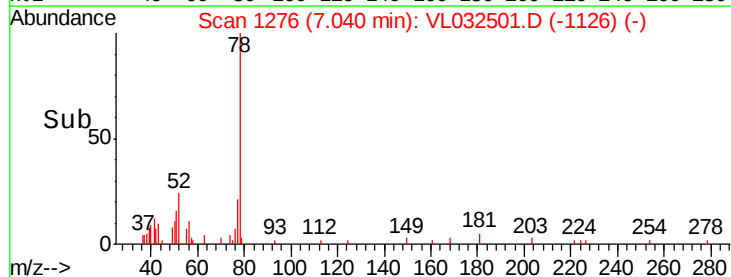
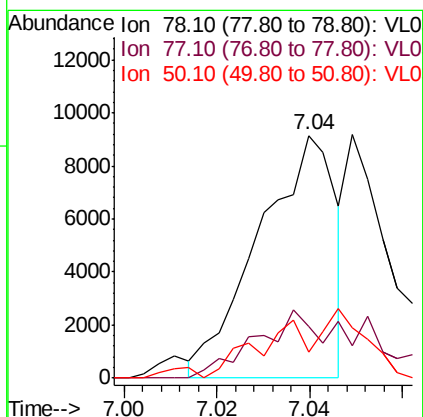
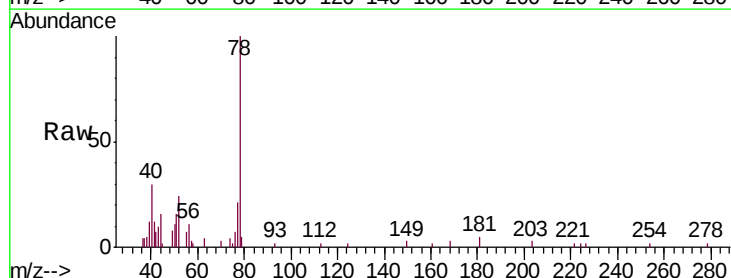
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRYDL2

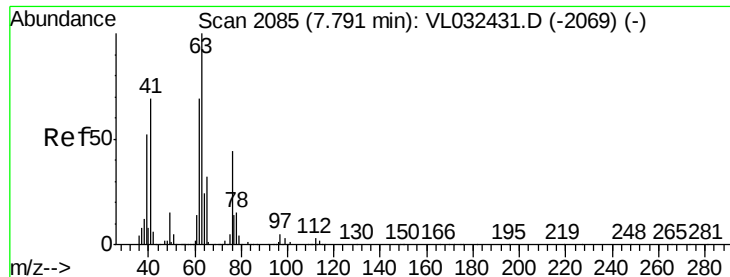
Tgt Ion: 43 Resp: 2063994
 Ion Ratio Lower Upper
 43 100
 72 22.0 17.8 26.6



#36
 Benzene
 Concen: 0.040 ppbv
 RT: 7.04 min Scan# 1276
 Delta R.T. -0.02 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

Tgt Ion: 78 Resp: 10531
 Ion Ratio Lower Upper
 78 100
 77 22.6 18.4 27.6
 50 6.5 14.4 21.6#

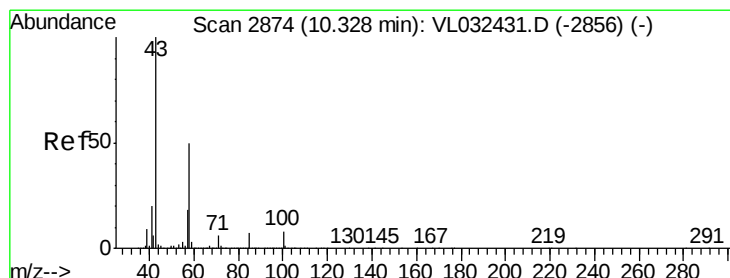
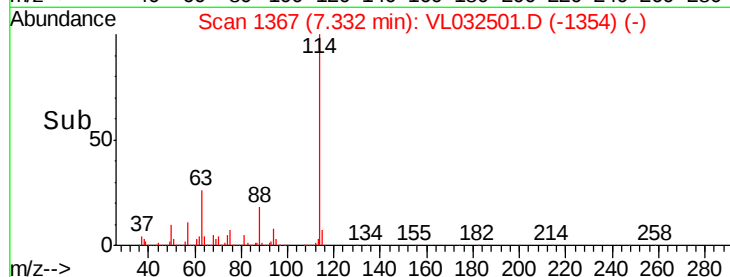
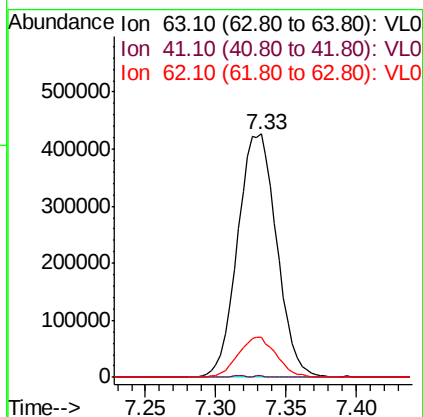
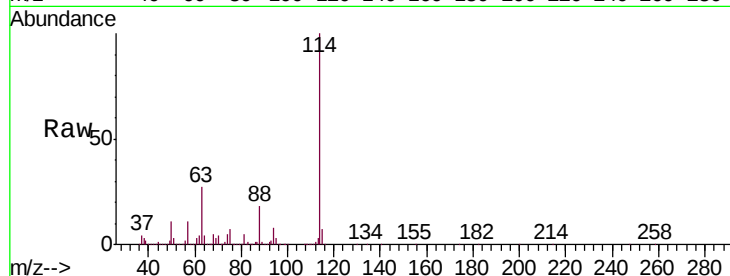




#39
 1,2-Dichloropropane
 Concen: 7.275 ppbv
 RT: 7.33 min Scan# 1367
 Delta R.T. -0.46 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

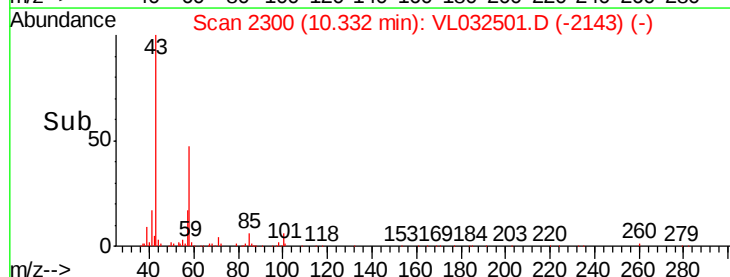
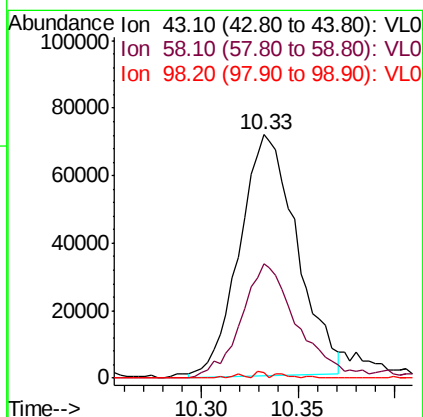
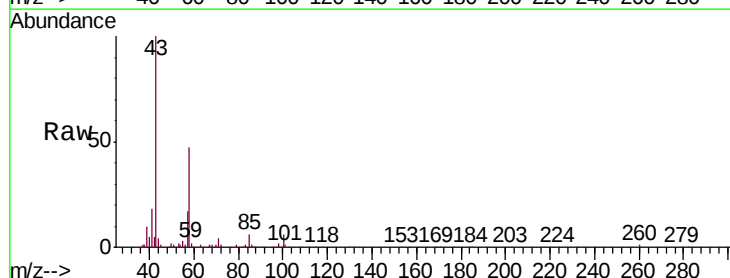
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRYDL2

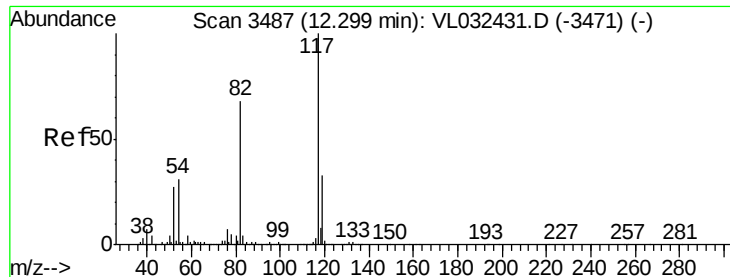
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.4	55.4	83.0#
62	16.7	55.4	83.0#



#51
 2-Hexanone
 Concen: 0.731 ppbv
 RT: 10.33 min Scan# 2300
 Delta R.T. 0.00 min
 Lab File: VL032501.D
 Acq: 11 Sep 2018 10:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	48.8	39.2	58.8
98	0.7	0.4	0.6#

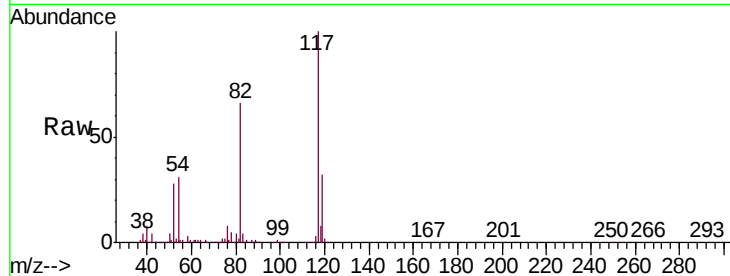




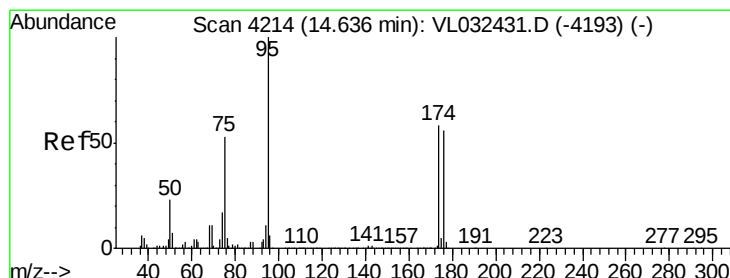
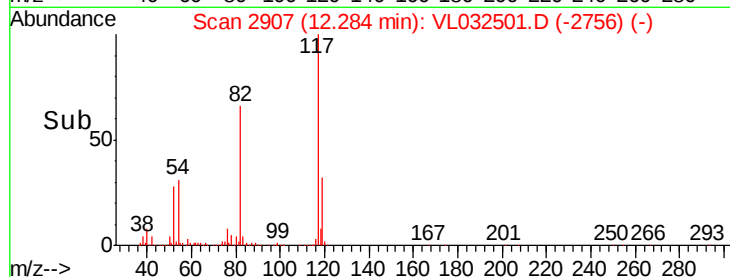
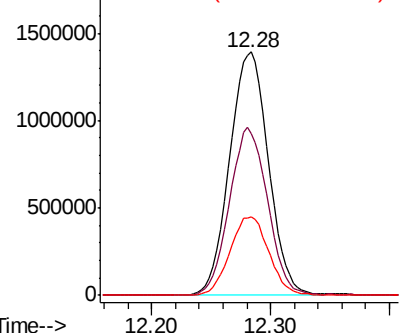
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

Instrument :
MSVOA_L
ClientSampleId :
249-BERRYDL2

Tgt Ion: 117 Resp: 3151193
Ion Ratio Lower Upper
117 100
82 68.3 53.0 79.6
119 32.4 45.9 68.9#

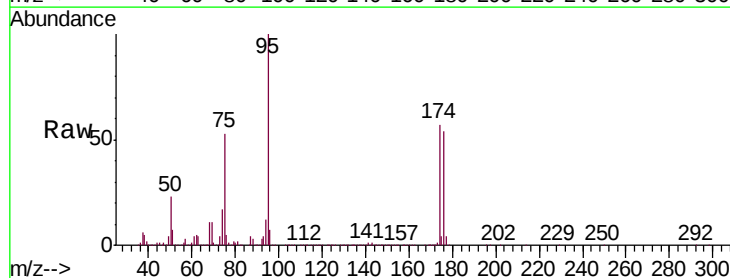


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.500 ppbv
RT: 14.62 min Scan# 3633
Delta R.T. -0.02 min
Lab File: VL032501.D
Acq: 11 Sep 2018 10:26

Tgt Ion: 95 Resp: 2456477
Ion Ratio Lower Upper
95 100
174 57.8 46.3 69.5
175 4.2 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

